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Containing the Patents, Trade-Marks, & Designs issued

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Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Acu-Rule Manufacturing Company, St. Louis, Mo. Slide rules. Serial No. 608,051, Mar. 4. Class 26.

Aerovox Corporation, New Bedford, Mass. Electrical capacitors. Serial No. 610,304, Mar. 4. Class 21.

Aktiebolaget Bofors, Bofors, Sweden. Tools, tool bits, drills, etc. Serial No. 614,328, Mar. 4. Class 23.

Alemite Company of Southern California, Los Angeles, Calif., assignor to Stewart-Warner Corporation, Chicago, Ill. Internal combustion engine operation and efficiency indicator. Serial No. 607,276, Mar. 4. Class 26.

Alexander, Merle L., Albuquerque, N. Mex. Sandwiches. Serial No. 604,946, Mar. 4. Class 46.

Allbright-Nell Company, The, Chicago, Ill. Packing house equipment. Serial No. 583,072, Mar. 4. Class 34.

Allied Chemical & Dye Corporation, New York, N. Y. Booklets, pamphlets, or leaflets. Serial No. 617,525, Mar. 4. Class 38.

Alston Manufacturing Company, Oakland, Calif. Device consisting of a tube, nozzle, and brush. Serial No. 598,940, Mar. 4. Class 29.

American Crayon Company, The, Sandusky, Ohio. Art needlework and painting kits. Serial No. 612,525, Mar. 4. Class 40.

American Cyanamid Company, New York, N. Y. Antioxidant. Serial No. 615,363, Mar. 4. Class 6.

American Fabrics Company, The, Bridgeport, Conn. Laces, embroideries and narrow woven fabrics, etc. Serial No. 595,931, Mar. 4. Class 40.

American Reenforced Paper Company, Attleboro, Mass. Reenforced paper. Serial No. 553,056, Mar. 4. Class 37.

American Sanitary Manufacturing Company, Abingdon, Ill. Plumbing equipment. Serial No. 609,710, Mar. 4. Class 13.

American Stores Company, Philadelphia, Pa. Grape juice. Serial No. 588,541, Mar. 4. Class 45.

Ammco Tools, Inc., North Chicago, Ill. Brake shoe grinders, valve tappet grinders, valve tappet screw grinders, etc. Serial No. 614,979, Mar. 4. Class 23.

Anchor Plastics Company, Inc., New York, N. Y. Bones or stays. Serial No. 606,592, Mar. 4. Class 40.

Answer Man, The, New York, N. Y. Entertainment service. Serial No. 599,046, Mar. 4. Class 107.

Archem Corporation, Crete, Nebr. Treated corn. Serial No. 603,567, Mar. 4. Class 46.

Arkansas Company, Inc., Newark, N. J. Vegetable oil. Serial No. 605,458, Mar. 4. Class 6.

Arrow Manufacturing Co., Inc., West New York, N. J. Plastic cases. Serial No. 601,590, Mar. 4. Class 2.

Artistic Foundations, Inc., New York, N. Y. Brassières. Serial No. 617,332, Mar. 4. Class 39.

Astra Trading Corporation, New York, N. Y. Cigarette lighters. Serial No. 612,579, Mar. 4. Class 8.

Atlantic Extract Company, Inc., Boston, Mass. Carbonated coffee-flavored maltless soft drinks. Serial No. 595,352, Mar. 4. Class 45.

Atlantic Paper Company, Philadelphia, Pa. Starch coated book paper. Serial No. 599,073, Mar. 4. Class 37.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Acidproof and anti-corrosive rubber base coating preparation. Serial No. 580,179, Mar. 4. Class 16.

Automatic Firing Corporation, St. Louis, Mo. Space cooling machinery. Serial No. 600,409, Mar. 4. Class 34.

Aviation Engineering Corporation, Woodside, N. Y. Aircraft instruments. Serial No. 614,235, Mar. 4. Class 26.

Baker-Roos, Inc., Indianapolis, Ind. Leasing of clamps for concrete-column forms. Serial No. 606,963, Mar. 4. Class 103.

Ballinger, W. A., & Co., San Francisco, Calif. Mops and mop heads. Serial No. 615,207, Mar. 4. Class 29.

Bamfords Limited, Uttoxeter, England. Reaping machines, hay-making machinery, hay and grass collecting machinery, etc. Serial No. 580,971, Mar. 4. Class 23.

Bareco Oil Company, Tulsa, Okla. Microcrystalline wax. Serial Nos. 607,066–70, Mar. 4. Class 6.

Beacon Lead & Color Works, Inc., Brooklyn, N. Y. Paints. Serial No. 597,935, Mar. 4. Class 16.

Beatrice Steel Tank Manufacturing Company, Beatrice, Nebr. Metal barrels. Serial No. 527,415, Mar. 4. Class 2.

Belnap & Thompson, Inc., Chicago, Ill. Sales promotion of clients' goods or services. Serial No. 617,645, Mar. 4. Class 101.

Beltx Corporation, St. Louis, Mo. Adjustable shoulder straps, bra-girdle fasteners and garter grips. Serial No. 603,874, Mar. 4. Class 40.

Bensdorp Inc., Boston, Mass., assignor to Bensdorp, N. V., Bussum, Netherlands. All products of the cacao bean. Serial No. 571,838, Mar. 4. Class 46.

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Berrie, Nathan, & Sons, New York, N. Y. Jewelry findings, neck chains and jewelry chains. Serial No. 612,297, Mar. 4. Class 28.

Best, Richard, Pencil Company, Inc., Springfield, N. J. Pencils. Serial No. 524,900, Mar. 4. Class 37.

Bone Dry Shoe Mfg. Co., Tacoma, Wash. Shoe grease and shoe dressing. Serial No. 608,914, Mar. 4. Class 6.

Boone, Philip, Winchester, Mass. Unmounted synthetic stones. Serial No. 605,985, Mar. 4. Class 28.

Bostwick Laboratories, Inc., Bridgeport, Conn. Insect killer, moth proofing preparation, air refresher. Serial No. 609,777, Mar. 4. Class 6.

Bostwick Laboratories, Inc., Bridgeport, Conn. Chrome aluminum enamel, and a liquid plastic. Serial No. 609,778, Mar. 4. Class 16.

Bowes "Seal-Fast" Corporation, Indianapolis, Ind. Rubber patches. Serial No. 590,350, Mar. 4. Class 35.

Boyd, William, Beverly Hills, Calif. Electric lamps. Serial No. 599,812, Mar. 4. Class 21.

Brach, E. J., & Sons, Chicago, Ill. Candy. Serial No. 582,595, Mar. 4. Class 46.

Bragg, Paul C., doing business as Live Food Products Company, assignor to Live Food Products Co., Burbank, Calif. Stomach anti-acid. Serial No. 603,910, Mar. 4. Class 18.

Bristol-Myers Company, New York, N. Y. Toothpaste. Serial No. 515,744, Mar. 4. Class 51.

Buckeye Foods, Inc., Columbus, Ohio. Pretzels and popcorn. Serial No. 594,246, Mar. 4. Class 46.

Bulletin Company, Philadelphia, Pa. Periodical publications. Serial No. 551,520, Mar. 4. Class 38.

Burd Piston Ring Company, Rockford, Ill. Automobile heaters and parts and accessories therefor. Serial No. 609,845, Mar. 4. Class 19.

Calavo Growers of California, Los Anegles, Calif. Fresh avocados. Serial Nos. 613,556–7, Mar. 4. Class 46.

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Colleen Knitwear Corp., New York, N. Y. Ladies', misses', sweaters. Serial No. 616,586, Mar. 4. Class 39.

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Couri-Amoury Inc., New York, N. Y. Infants' diapers. Serial No. 597,130, Mar. 4. Class 39.

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Davis, Aaron, Harwichport, Cape Cod, Mass. Weather measuring instruments and indicators. Serial No. 583,679, Mar. 4. Class 26.
Dearborn Motors Corporation, Birmingham, Mich. Combination tachometer and hour meter. Serial No. 597,817, Mar. 4. Class 26.
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Diamond Alkali Company, Cleveland, Ohio. Grain fumigant. Serial No. 614,759, Mar. 4. Class 6.
Diaper Service Institute of America, The, Philadelphia, Pa. Diaper rental service. Serial No. 587,429, Mar. 4. Class 100.
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Dick, A. B., Company, Niles, Ill. Materials used in lithographic printing. Serial No. 610,426, Mar. 4. Class 6.
Doughty, John Carr, Limited, Leicester, England. Articles of knitted clothing. Serial No. 607,008, Mar. 4. Class 39.
Duluth Buff Company, Chicago, Ill. Buffing wheels and buffing wheel sections. Serial No. 604,193, Mar. 4. Class 4.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polytetrafluoroethylene coatings. Serial No. 611,080, Mar. 4. Class 16.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemical compounds, mixtures, or solutions. Serial No. 614,544, Mar. 4. Class 6.
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Electric Storage Battery Company, The, Philadelphia, Pa. Storage battery grid alloy. Serial No. 620,031, Mar. 4. Class 14.
Emporium Capwell Company, The, doing business as The Emporium, San Francisco, Calif. Archery equipment, baby exercisers, baseballs, etc. Serial No. 586,741, Mar. 4. Class 22.
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Fenwal Laboratories, Inc., Ashland, Mass. Dielectric sealers. Serial No. 605,021, Mar. 4. Class 21.
Fitzjohn Coach Co., Muskegon, Mich. Motor busses. Serial No. 591,473, Mar. 4. Class 19.
Flonette Products Co., New York, N. Y. Personal deodorant lotion. Serial No. 577,669, Mar. 4. Class 51.
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Global Watch Company, Inc., New York, N. Y. Radio receiving sets, electric fans and phonographs. Serial Nos. 612,654–5, Mar. 4. Class 21.
Globe Democrat Publishing Company, St. Louis, Mo. Feature column of a newspaper. Serial No. 617,398, Mar. 4. Class 38.
Gordon Baking Co., Detroit, Mich. Bread. Serial No. 521,878, Mar. 4. Class 46.
Gottheimer, Sid., Inc., New York, N. Y. Accessories for dolls. Serial No. 596,912, Mar. 4. Class 22.
Gowns by Priscilla of Boston, Inc., Boston, Mass. Women's gowns and dresses. Serial No. 603,922, Mar. 4. Class 39.
Gulf States Paper Corporation, Tuscaloosa, Ala. Wrapping paper and butchers paper. Serial No. 603,681, Mar. 4. Class 37.
Gutmann, Carl, & Co., Inc., New York, N. Y. Ladies' and misses' sweaters, blouses and outer sport shirts. Serial No. 605,900, Mar. 4. Class 39.
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Hamilton Manufacturing Company, Two Rivers, Wis. Cabinet automatic clothes dryers. Serial No. 599,706, Mar. 4. Class 24.
Hamm, Theo., Brewing Co., St. Paul, Minn. Beer. Serial No. 584,906, Mar. 4. Class 48.
Hansen, Rasmus A., doing business as Retex Company, Livermore, Calif. Composition for treating fabric materials. Serial No. 615,222, Mar. 4. Class 6.
Hanson-Van Winkle-Munning Company, Matawan, N. J. Chemical addition agent. Serial No. 615,552, Mar. 4. Class 6.
Hart, Frank, doing business as Hart Manufacturing Company, Hot Springs, Ark. Transfer decorations. Serial No. 616,316, Mar. 4. Class 38.
Hart Manufacturing Company: *See*—
Hart, Frank.
Hartwig Incorporated, Milwaukee, Wis. Display cabinets. Serial No. 565,781, Mar. 4. Class 32.
Heineman Electric Company, Trenton, N. J. Service centers consisting of a small number of circuit breakers, etc. Serial No. 561,465, Mar. 4. Class 21.
Herman Pneumatic Machine Company, Pittsburgh, Pa. Centrifugal casting machines. Serial No. 583,343, Mar. 4. Class 23.
Hill, Roberta, New Bedford, Mass. Information service. Serial No. 601,393, Mar. 4. Class 107.
Hillyard Chemical Company, St. Joseph, Mo. Liquid oil-based finish for wood floors. Serial No. 614,941, Mar. 4. Class 16.
Hiscock, Earle F., Washington, D. C., and New York, N. Y. Beverage brewers. Serial No. 610,270, Mar. 4. Class 13.
Hittel, Charles L., Newark, N. J. Washing racks for Venetian blinds. Serial No. 582,687, Mar. 4. Class 24.
Hollins, William, & Company Limited, Nottingham, England. Women's garments, men's and boys' garments, etc. Serial No. 612,911, Mar. 4. Class 39.
Hospital Equipment Corporation, New York, N. Y. Hospital and surgical supplies. Serial Nos. 581,954–5, Mar. 4. Class 44.
Ice Cream Novelties, Inc., assignor to Fruit Products Corporation, New York, N. Y. Frozen confections and liquid concentrates. Serial No. 613,916, Mar. 4. Class 46.
Ideal Industries, Inc., Sycamore, Ill. Electrical welding apparatus and parts thereof. Serial No. 613,992, Mar. 4. Class 21.
Ideal Toy Corporation, Hollis, N. Y. Plastic toy soap dish. Serial No. 619,756, Mar. 4. Class 22.
Imco Manufacturing Corporation, The, New York, N. Y. Pyrophoric lighters. Serial No. 604,970, Mar. 4. Class 8.
Industrial Chemical Laboratories, Inc., Omaha, Nebr. Liquid and powdered insecticides; liquid and powdered disinfectants. Serial No. 613,510, Mar. 4. Class 6.
International Baton Twirling Foundation, Johnstown, Pa. Teaching of the art of baton twirling, and also furnishing baton twirlers. Serial No. 614,507, Mar. 4. Class 107.
Ithaca Gun Company, Inc., Ithaca, N. Y. Double barrel shotguns, single barrel shotguns and repeating shotguns. Serial No. 589,999, Mar. 4. Class 9.
Jennings Radio Mfg. Co., San Jose, Calif. Vacuum electronic apparatus. Serial No. 596,574, Mar. 4. Class 21.
Johnson, Howard D., Company, Quincy, Mass. Ice cream, chocolates, milk cocoa, etc. Serial No. 589,314, Mar. 4. Class 46.
Johnson, Howard D., Company, Quincy, Mass. Ice cream and ice cream bars; candies, etc. Serial No. 589,316, Mar. 4. Class 46.
Johnson, Lawrence W., Sauk City, Wis. Maltless soft drinks and carbonated waters. Serial No. 590,444, Mar. 4. Class 45.
Keco Milling Co.: *See*—
Cash Economy Wholesale Grocery Co.
Kemart Corporation, San Francisco, Calif. Drawing papers and illustration boards. Serial No. 554,129, Mar. 4. Class 37.
Kent-Moore Organization, Inc., Detroit, Mich. Merchandiser cabinets and service desks. Serial No. 577,126, Mar. 4. Class 32.
Knit Products Corporation, Belmont, N. C. Ladies' hosiery. Serial No. 611,365, Mar. 4. Class 39.
Koh-I-Noor, Spojené Kovoprúmyslové Závody, Národní Podnik, also doing business under the name "Koh-I-Noor United Metal Ware Factories, National Corporation," Prague, Czechoslovakia. Closures and fasteners, crochet hooks and crochet needles, etc. Serial No. 613,296, Mar 4. Class 40.
"Koh-I-Noor United Metal Ware Factories, National Corporation": *See*—
Koh-I-Noor, Spojené Kovoprúmyslové Závody, Národní Podnik.

Kreuter Paint Company, Grand Rapids, Mich. Ready mixed paints and primer. Serial No. 604,011, Mar. 4. Class 16.
L & B Products Corporation, New York, N. Y. Table bases. Serial No. 601,265, Mar. 4. Class 32.
Labatt, John, Limited, London, Ontario, Canada. Ale. Serial No. 563,414, Mar. 4. Class 48.
Landau, Sam, New York, N. Y. Ladies' pajamas. Serial No. 616,958, Mar. 4. Class 39.
Lapey, Neenah, doing business under the name of Pex Products Co., Hamburg, N. Y. Liquid soap. Serial No. 591,423, Mar. 4. Class 52.
Lawter Chemicals, Inc., Chicago, Ill. Fluorescent paint. Serial No. 601,266, Mar. 4. Class 16.
League of Women Voters of the United States, Washington, D. C. Educational periodical publications. Serial No. 613,413, Mar. 4. Class 38.
Lees Textile Company, The, Lowell, Mass. Materials for use in wrapping gifts. Serial No. 551,983, Mar. 4. Class 37.
Le Fevre, R. T., and J. O. Stevenson, Los Angeles, Calif. Game. Serial No. 613,878, Mar. 4. Class 22.
Light, Wayne W., New York, N. Y. Stones and gems. Serial No. 611,648, Mar. 4. Class 28.
Live Food Products Co., assignee: *See*—
Bragg, Paul C.
Live Food Products Company: *See*—
Bragg, Paul C.
Loveland Engrg. & Mfg. Co.: *See*—
Loveland, Pratt R.
Loveland, Pratt R., doing business as Loveland Engrg. & Mfg. Co., Chicago, Ill. Squeegee for washing windows. Serial No. 597,404, Mar. 4. Class 29.
Mason Tackle, Otisville, Mich. Composite unit—consisting of a fishing line leader and dispenser. Serial No. 601,449, Mar. 4. Class 22.
Mathieson Chemical Corporation, Baltimore, Md. Bottler's alkali. Serial No. 611,612, Mar. 4. Class 6.
Maxim Silencer Company, The, Hartford, Conn. Silencers, snow plows, and manually guided snow throwers. Serial No. 611,443, Mar. 4. Class 23.
McAdams, Harry, doing business as Tulip Hosiery Finishing Co., Philadelphia, Pa. Finishing of hosiery. Serial No. 585,757, Mar. 4. Class 103.
Mel-Williams Company, San Francisco, Calif. Canned fruits, canned vegetables, canned ripe olives, etc. Serial No. 571,983, Mar. 4. Class 46.
Merchants Chemical Company, Inc., New York, N. Y. Chlorinated solvents. Serial No. 578,695, Mar. 4. Class 52.
Metallizing Engineering Co. Inc., Long Island City, N. Y. Metal surface paints and thinners therefor. Serial No. 595,972, Mar. 4. Class 16.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Heat-sensitive cellulosic sheet material. Serial No. 595,388, Mar. 4. Class 37.
Minnesota and Ontario Paper Company, Minneapolis, Minn. Coated paper. Serial No. 614,562, Mar. 4. Class 37.
Min-R-L-Rubr Corp., New York, N. Y. Device for injecting insulating material into the surface of foundations in subsoil. Serial No. 588,378, Mar. 4. Class 23.
Missouri Garment Company, Inc., Kansas City, Mo. Blouses, dusters, halters, etc. Serial No. 607,258, Mar. 4. Class 39.
Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Copper bottom paint. Serial No. 612,924, Mar. 4. Class 16.
Mountain States Bean Company, Denver, Colo. Dried beans, dried peas, and lentils. Serial No. 557,199, Mar. 4. Class 46.
Murray Hill Restaurant, Inc., New York, N. Y. Statues, bracelets, trinkets, etc. Serial No. 611,186, Mar. 4. Class 28.
Murray Hill Restaurant, Inc., New York, N. Y. Drinking and wine glasses, glass stirrers, glass muddlers, etc. Serial No. 611,187, Mar. 4. Class 33.
N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands. Knitted and woven woolen fabrics. Serial No. 603,976, Mar. 4. Class 42.
Naamlooze Vennootschap Kristal-, Glas-En Aardewerkfabrieken "De Sphinx" Voorheen Petrus Regout & Co., Maastricht, Netherlands. Bathroom accessories and fittings and parts therefor. Serial No. 540,436, Mar. 4. Class 13.
National Novelty Company, Lancaster, Pa. Acid, glue and paste brushes, bottle and radiator brushes, etc. Serial No. 613,417, Mar. 4. Class 29.
National Wildlife Federation, Washington, D. C. Informational and instructive services. Serial No. 599,526, Mar. 4. Class 107.
Nielsen, A. C., Company, Chicago, Ill. Marketing research. Serial No. 587,646, Mar. 4. Class 101.
Otis Engineering Corporation, Dallas, Tex. Oil and gas well tools and oil and gas well producing and servicing equipment. Serial No. 613,381, Mar. 4. Class 26.
Pace Paints Inc., Brooklyn, N. Y. Enamel paints, plastic paints, oil paints, etc. Serial No. 613,943, Mar. 4. Class 16.
Palmer, Roy P., doing business as Poster-Message Service, Minneapolis, Minn. Paper blanks. Serial No. 600,071, Mar. 4. Class 37.
Paragon Utilities Corporation, New York and Brooklyn, N. Y. Washtubs in the form of permanent fixtures connected to a water system, etc. Serial No. 565,297, Mar. 4. Class 13.
Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, pen desk sets, etc. Serial No. 613,822, Mar. 4. Class 37.
Parkersburg Rig & Reel Company, The, Parkersburg, W. Va., and Houston, Tex. High pressure gas well hook up apparatus. Serial No. 601,687, Mar. 4. Class 23.
Peck & Peck, New York, N. Y. Articles of wearing apparel. Serial No. 598,203, Mar. 4. Class 39.
Peck's Products Company, St. Louis, Mo. Soaps, and dishwashing detergents. Serial No. 609,196, Mar. 4. Class 52.
Penick, S. B., & Company, New York, N. Y. Rodenticides. Serial No. 590,518, Mar. 4. Class 6.
Penn Petroleum Corporation, Detroit, Mich. Oils. Serial No. 615,340, Mar. 4. Class 15.
Pex Products Co.: *See*—
Lapey, Neenah.
Photographers' Association of America, The, Wilmington, Del., and Toledo, Ohio. Monthly publication. Serial No. 605,278, Mar. 4. Class 38.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medicinal preparation. Serial No. 595,412, Mar. 4. Class 18.
Pilsener Brewing Company, The, Cleveland, Ohio. Beer. Serial No. 613,523, Mar. 4. Class 48.
Pompender, Martha T. M., New York, N. Y. Entertainment service. Serial No. 602,298, Mar. 4. Class 107.
Porter-Cable Machine Company, The, Syracuse, N. Y. Floor surfacing machines, stationary grinders, and portable power operated tools. Serial No. 592,517, Mar. 4. Class 23.
Poster-Message Service: *See*—
Palmer, Roy P.
Protective Coatings Corporation, Des Plaines, Ill. Plastic type paints and coatings, shingle paint coatings, and container linings of phenol-formaldehyde resin solution. Serial No. 615,500, Mar. 4. Class 16.
Protecto Products Co., Inc., Pomona, Calif. Waxed paper. Serial No. 616,923, Mar. 4. Class 37.
Quaker Maid Company, Inc., The, New York, N. Y. Canned, bottled and packaged food products. Serial No. 604,744, Mar. 4. Class 46.
Ranney-Davis Mercantile Company, The, Arkansas City, Kans. Canned vegetables, canned fruits, fruit jellies, etc. Serial No. 569,396, Mar. 4. Class 46.
Ray-O-Vac Company, Madison, Wis. Dry cells and dry cell batteries. Serial No. 617,628, Mar. 4. Class 21.
Refined Products Corporation, Lyndhurst, N. J. Surface-active agent. Serial No. 606,809, Mar. 4. Class 52.
Retex Company: *See*—
Hansen, Rasmus A.
Reynolds, Earl C., doing business as Soft-O Equipment Co., Detroit, Mich. Zeolite type water softening apparatus. Serial No. 606,051, Mar. 4. Class 31.
Robertson, H. H., Company, Pittsburgh, Pa. Resinous coating compositions. Serial No. 613,781, Mar. 4, Class 16.
Roseth Corporation, New York and Brooklyn, N. Y. Tar paper. Serial No. 597,100, Mar. 4. Class 37.
Safe-In-Suds, Inc.: *See*—
Warren Shirts, Inc.
Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Canned citrus fruit juices. Serial No. 599,023, Mar. 4. Class 46.
Sapolin Paints Inc., New York, N. Y. Concrete floor enamel. Serial No. 594,810, Mar. 4. Class 16.
Scherer, Ernest, doing business as Scherer's Rolup Ink Co., Grosse Pointe, Mich. Acid-resisting paint enamel. Serial No. 591,895, Mar. 4. Class 16.
Scherer's Rolup Ink, Co.: *See*—
Scherer, Ernest.
Sea-Ro Packing Company, Incorporated, Wood-Ridge, N. J. Packing. Serial No. 616,053, Mar. 4. Class 35.
Seco Company, Inc., St. Louis, Mo. Electrically operated portable food warmers. Serial No. 554,612, Mar. 4. Class 21.
Seidlitz Paint & Varnish Co., Kansas City, Mo. Paints, varnish and paint enamel. Serial No. 536,154, Mar. 4. Class 16.
Serr-Edge Machine Company, Inc., Cleveland, Ohio. Knife sharpening and serrating service. Serial No. 601,808, Mar. 4. Class 103.
Service Industries, Philadelphia, Pa. Ready-mixed aluminum paint. Serial No. 602,782, Mar. 4. Class 16.
Shaker Savings Association, Shaker Heights, Ohio. Savings and loan services. Serial No. 604,600, Mar. 4. Class 102.
Shapiro, Henry, Crescent City, Calif. Decorative miniature cones. Serial No. 582,461, Mar. 4. Class 50.
Shellmar Products Corporation, Chicago, Ill. Automatic packaging machines. Serial No. 596,758, Mar. 4. Class 23.
Shure Brothers, Incorporated, New Haven, Conn. Chemical treatment of garments. Serial No. 600,703, Mar. 4. Class 106.
Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Fabrics. Serial No. 617,319, Mar. 4. Class 42.

Sleepy Hollow Craftsmen, Inc., Cincinnati, Ohio. Colored portraits. Serial No. 616,191, Mar. 4. Class 38.

Societe des Accumulateurs Elbric S. A., Lausanne, Switzerland. Accumulators. Serial No. 607,969, Mar. 4. Class 21.

Soft-O Equipment Co.: *See*—
Reynolds, Earl C.

Spur Knitting Mills, Inc., New York, N. Y. Ladies', misses', children's sweaters and knitted pantie suits. Serial No. 607,831, Mar. 4. Class 39.

Standard Cap and Seal Corporation, Chicago, Ill. Laminated material. Serial No. 586,438, Mar. 4. Class 37.

Standard Milling Company, Chicago, Ill. Wheat flour. Serial No. 527,822, Mar. 4. Class 46.

Standard Ribbon Co., New York, N. Y. Seam binding. Serial No. 611,863, Mar. 4. Class 40.

Standard Shoe Machinery Company, Chicago, Ill. Sewing awl hafts, twin cutters, nail sets, etc. Serial No. 534,202, Mar. 4. Class 23.

Star Drilling Machine Company, The, Akron, Ohio. Well drilling machines and parts therefor. Serial No. 599,395, Mar. 4. Class 23.

Starline, Inc., Harvard, Ill. Bull staffs, sling carriers, pulleys, and crank operating mechanisms. Serial No. 607,646, Mar. 4. Class 23.

Starline, Inc., Harvard, Ill. Barn roof ventilators. Serial No. 607,647, Mar. 4. Class 34.

Stauffer Chemical Company, San Francisco, Calif. Finely ground crude sulfur. Serial No. 582,704, Mar. 4. Class 6.

Stern & Co., Philadelphia, Pa. Furniture. Serial No. 601,341, Mar. 4. Class 32.

Stevenson, J. O.: *See*—
Le Fevre, R. T., and J. O. Stevenson.

Stewart-Warner Corporation, assignee: *See*—
Alemite Company of Southern California.

Stokes, F. J., Machine Company, Philadelphia, Pa. Vacuum gauges and recording vacuum gauges. Serial No. 603,559, Mar. 4. Class 26.

Stollwerck, A. N., Inc., Camden, N. J. Cocoa butter. Serial No. 584,946, Mar. 4. Class 46.

Suburban Gas Service, Inc., Harrisburg, Pa. Liquefied hydrocarbon gas. Serial No. 604,750, Mar. 4. Class 6.

Summit Mills Corporation, New York, N. Y. Knitted cotton piece goods. Serial No. 594,294, Mar. 4. Class 42.

Super Flow Solder Co., Inc., Albany, N. Y. Activated, non-corrosive solder. Serial No. 616,064, Mar. 4. Class 14.

Supreme Council, Mystic Order Veiled Prophets of the Enchanted Realm, Chicago, Ill. Informational services. Serial No. 593,571, Mar. 4. Class 107.

Swivelier Company, Inc., New York, N. Y. Reflectors. Serial No. 604,821, Mar. 4. Class 21.

Synco Products: *See*—
Synco Products Company, Inc.

Synco Products Company, Inc., doing business under the name and style of Synco Products, Chattanooga, Tenn. Durable plastic starch. Serial No. 580,799, Mar. 4. Class 6.

Taylor-Winfield Corporation, The, Warren, Ohio. Electric resistance welding machines. Serial No. 608,638, Mar. 4. Class 21.

Testagar & Co., Inc., Detroit, Mich. Vitamin B 12 preparation. Serial No. 598,395, Mar. 4. Class 18.

Thermoplex International, Inc., New York, N. Y. Plastic insulated serving pitchers. Serial No. 598,396, Mar. 4. Class 2.

Trudeau, Oscar G., assignee: *See*—
Vitamin Supple-Mints Co.

Truscon Steel Company, Youngstown, Ohio. Pallets and platforms. Serial No. 611,205, Mar. 4. Class 50.

Tulip Hosiery Finishing Co.: *See*—
McAdams, Harry.

Turner, Charles W., doing business as H. T. Turner Co., Lynn, Mass. General real estate and mortgage brokerage; financing and management services, etc. Serial No. 593,844, Mar. 4. Class 102.

Turner, Harry T., Co.: *See*—
Turner, Charles W.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

Uneeda Doll Co. Inc., New York, N. Y. Dolls. Serial No. 614,180, Mar. 4. Class 22.

Uniflow Manufacturing Company, Erie, Pa. Bottle coolers, walk-in cooling cabinets, electric and other refrigerating apparatus, etc. Serial No. 550,467, Mar. 4. Class 31.

Union Electric Company of Missouri, St. Louis, Mo. Electric power and steam heat distribution services. Serial No. 585,464, Mar. 4. Class 100.

United Aircraft Products, Inc., Dayton, Ohio. Metal pans. Serial No. 574,171, Mar. 4. Class 13.

United States Plywood Corporation, New York, N. Y. Plywood, veneer, and lumber. Serial No. 593,026, Mar. 4. Class 12.

United States Steel Company, Pittsburgh, Pa. Metal rails and splice bars. Serial No. 617,737, Mar. 4. Class 14.

Universal Paint & Varnish Company, Huntington Park, Calif. Protective floor coating. Serial No. 590,627, Mar. 4. Class 16.

Univis Lens Company, The, Dayton, Ohio. Ophthalmic lens blanks and eyeglass lenses. Serial No. 613,096, Mar. 4. Class 26.

Utility Tools Inc., New York, N. Y. Tools. Serial No. 584,646, Mar. 4. Class 23.

U-Tote-Em Grocery Company: *See*—
Cash Economy Wholesale Grocery Co.

V. & E. Manufacturing Co., Pasadena, Calif. Drawing instruments. Serial Nos. 603,706–7, Mar. 4. Class 26.

Valmet Oy-Valmet Ab, Helsinki, Findland. Shotguns, small bore rifles, etc. Serial No. 611,924, Mar. 4. Class 9.

Van Cleef Bros., Inc., Chicago, Ill. Gasketing compound. Serial No. 601,000, Mar. 4. Class 12.

Velveray Corporation, New York, N. Y. Woven fabrics. Serial No. 604,673, Mar. 4. Class 42.

Vine Associates, Beverly, N. J. Washable covers adapted for use with either brooms or mops. Serial No. 604,828, Mar. 4. Class 29.

Vitamin Supple-Mints Co., Milwaukee, Wis., assignor to O. G. Trudeau, St. Paul, Minn. Candy mints. Serial No. 496,587, Mar. 4. Class 46.

Voet, Joe: *See*—
Voet, Joseph F.

Voet, Joseph F., doing business as Joe Voet, Brawley, Calif. Fresh melons and fresh vegetables. Serial No. 615,669, Mar. 4. Class 46.

Waller & Hartley Limited, Blackpool, England. Candies. Serial No. 601,345, Mar. 4. Class 46.

Walsh, Inc., Chicago, Ill. Consulting mechanical engineering service. Serial No. 614,974, Mar. 4. Class 100.

Warren Shirts, Inc., New York, N. Y., now by change of name Safe-In-Suds, Inc. Men's outer shirts. Serial No. 575,613, Mar. 4. Class 39.

Washington Post Company, The, Washington, D. C. Column in a newspaper. Serial No. 617,828, Mar. 4. Class 38.

Washington Steel Products Inc., Tacoma, Wash. Cabinet hardware. Serial No. 602,533, Mar. 4. Class 13.

Waterloo Corporation, New York, N. Y. Fire insulating paint. Serial No. 615,509, Mar. 4. Class 16.

Waverly Petroleum Products Company, Philadelphia, Pa. Tank with treadle mechanism. Serial No. 614,530, Mar. 4. Class 23.

Welco Manufacturing Company, Incorporated, Kansas City, Mo. Cement base paint. Serial No. 583,505, Mar. 4. Class 16.

West Disinfecting Company, Long Island City, N. Y. Dispensers. Serial No. 616,307, Mar. 4. Class 13.

West Paint and Varnish Company, Boston, Mass. Enamel paint. Serial No. 595,992, Mar. 4. Class 16.

West Bend Aluminum Co., West Bend, Wis. Aluminum, copper, and steel cooking utensils, etc. Serial No. 608,391, Mar. 4. Class 13.

Western Fishing Line Co.: *See*—
Western Lace and Line Company.

Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif. Fishing line. Serial No. 588,720, Mar. 4. Class 22.

Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md. X-ray apparatus. Serial No. 602,791, Mar. 4. Class 26.

West Point Manufacturing Company, West Point, Ga. Pillow slips, sheets, and bleached and unbleached sheeting. Serial No. 587,773, Mar. 4. Class 42.

Where-To-Go Bureau, Inc., Boston, Mass. Hotel, resort and travel advertising and information service. Serial No. 561,360, Mar. 4. Class 101.

Wilkinson, Fritz, Point Lookout, N. Y. Syndicated newspaper feature. Serial No. 612,780, Mar. 4. Class 38.

Willson Products, Inc., Reading, Pa. Eyeglasses. Serial No. 586,508, Mar. 4. Class 26.

Wily, James H., doing business as The Conestoga Company, Bethlehem, Pa. Ammunition. Serial No. 614,183, Mar. 4. Class 9.

Witco Chemical Company, Chicago, Ill. Carbon black. Serial No. 610,598, Mar. 4. Class 11.

Wolfschmidt Limited, Charlotte Amalie, St. Thomas, Virgin Islands, and New Haven, Conn. Kummel. Serial No. 601,123, Mar. 4. Class 49.

World Cheese Co., New York, N. Y. Cheese. Serial No. 614,076, Mar. 4. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

A P Controls Corporation: *See*—
Automatic Products Company.

Acclaim Hosiery Mills, Inc., High Point, N. C. Ladies' hosiery. 555,694, Mar. 4; Serial No. 611,252, published Dec. 4, 1951. Class 39.

Acieries De Gennevilliers, Gennevilliers, France. Heat producing chemicals. 289,036, renewed Nov. 17, 1951. O. G. Mar. 4. Class 6.

Acme Cotton Products Co., Inc., New York, N. Y. Absorbent cotton. 280,023, Feb. 10, 1931. Republished Mar. 4. Class 44.

Acme Cotton Products Co., Inc., New York, N. Y. Beauty (powder) puffs. 280,482, Feb. 17, 1931. Republished Mar. 4. Class 29.

Affiliated Retailers, Inc., New York, N. Y. Refrigerators. 555,719, Mar. 4; Serial No. 614,682, published Nov. 20, 1951. Class 31.

Alaska Pacific Salmon Company: *See*—
Alaska Pacific Salmon Corporation.

Alaska Pacific Salmon Corporation, to Alaska Pacific Salmon Company, Seattle, Wash. Canned salmon. 290,892, renewed Jan. 19, 1952. O. G. Mar. 4. Class 46.

Albert, Louis, doing business as Louis Albert & Son Foods Co., Omaha, Nebr. Food dressings. 555,760, Mar. 4; Serial No. 594,739. Class 46.

Albert, Louis, & Son Foods Co.: *See*—
Albert, Louis.

Aldens, Inc., Chicago, Ill. Electric refrigerators. 555,723, Mar. 4; Serial No. 615,741, published Dec. 4, 1951. Class 31.

Alexander, Merle L., Albuquerque, N. Mex. Sandwiches. 555,766, Mar. 4; Serial No. 604,944. Class 46.

American Abrasive Metals Company, Irvington, N. J. Fused aluminum oxide grains used to provide a non-slip surface when trowelled into the top of concrete sidewalks, etc. 555,630, Mar. 4; Serial No. 600,112, published Nov. 6, 1951. Class 12.

American Adhesive Manufacturing Co., Inc., Brooklyn, N. Y. Bookbinding adhesive paste or glue. 555,586, Mar. 4; Serial No. 580,173, published Nov. 13, 1951. Class 5.

American Chewing Products Corp., Newark, N. J. Candy coated chewing gum. 259,097, July 23, 1929. Republished Mar. 4. Class 46.

American Chicle Company, assignee: *See*—
Crawford Gum Company, Inc.

American Machine & Tool Co., Inc., Royersford, Pa. Power saws and parts thereof. 555,748, Mar. 4; Serial No. 578,477. Class 23.

American Optical Company, Southbridge, Mass. Optical objectives. 555,726, Mar. 4; Serial No. 616,470, published Nov. 6, 1951. Class 26.

American Writing Paper Company, by American Writing Paper Corporation, Holyoke, Mass. Writing paper. 84,804, Jan. 9, 1912. Republished Mar. 4. Class 37.

American Writing Paper Company, by American Writing Paper Corporation, Holyoke, Mass. Writing paper. 85,030, Jan. 23, 1912. Republished Mar. 4. Class 37.

American Writing Paper Corporation: *See*—
American Writing Paper Company.

American Zyloptic Co., Inc., New York, N. Y. Lenses and eyeglass, goggle, and spectacle frames and parts therefor. 555,582, Mar. 4; Serial No. 578,126, published Nov. 13, 1951. Class 26.

Armour and Company, Chicago, Ill. Tall oil pitch, cottonseed pitch, palm pitch, etc. 555,667, Mar. 4; Serial No. 606,690, published Nov. 27, 1951. Class 1.

Atlas Scraper and Engineering Co., Bell, Calif. Road scrapers, rippers, snow plows, etc. 555,576, Mar. 4; Serial No. 573,823, published Dec. 4, 1951. Class 23.

Auburn Rubber Corporation, Auburn, Ind. Shoe soling. 555,755, Mar. 4; Serial No. 586,905. Class 39.

Automatic Products Company, Milwaukee, Wis., now by change of name A P Controls Corporation. Automatic unitary device. 555,548, Mar. 4; Serial No. 551,849, published Dec. 4, 1951. Class 23.

Avco Manufacturing Corporation, Cincinnati, Ohio. Electric refrigerators and home freezers. 555,716, Mar. 4; Serial No. 613,964, published Nov. 6, 1951. Class 31.

B & T Metals Company, The, Columbus, Ohio. Aluminum moldings and trims. 555,638, Mar. 4; Serial No. 601,708, published Nov. 6, 1951. Class 12.

Bailey Company, Incorporated, The, Amesbury, Mass. Rolled metal shapes and rolled metal mouldings for construction purposes. 555,567, Serial No. 569,240, published Nov. 13, 1951. Class 12.

Barreled Sunlight Paint Company: *See*—
United States Gutta Percha Paint Company.

Beattie Jet Products, Inc., New York, N. Y. Tobacco pouches. 555,584, Mar. 4; Serial No. 578,562, published Dec. 4, 1951. Class 8.

Behr-Manning Corporation: *See*—
Manning Sand Paper Company.

Bendix Aviation Corporation: *See*—
Eclipse Machine Company.

Berwick Textile Products Company, Incorporated, Berwick, Pa. Packaged rayon acetate ribbons. 555,771, Mar. 4; Serial No. 612,380. Class 7.

Black and Decker Manufacturing Company, The, Towson, Md. Portable electric saws. 555,767, Mar. 4; Serial No. 607,616. Class 21.

Blairsville Machine Products Company, Blairsville, Pa. Cigar and cigarette lighters. 555,535, Mar. 4; Serial No. 519,621, published Dec. 4, 1951. Class 8.

Bliss Display Corporation, New York, N. Y. Metallic grill used to suspend merchandise, mannikins, signs, etc. 555,747, Mar. 4; Serial No. 576,617. Class 50.

Bloomer Bros. Company, Newark, N. Y. Ice cream pails. 293,501, renewed Apr. 26, 1952. O. G. Mar. 4. Class 2.

Boyd, William, Beverly Hills, Calif. Pocket knives and place settings. 555,666, Mar. 4; Serial No. 606,648, published Oct. 16, 1951. Class 23.

Bridgeport Brass Company, Bridgeport, Conn. Sprayers. 555,670, Mar. 4; Serial No. 607,927, published Nov. 20, 1951. Class 23.

Bristol Seamless Ring Co.: *See*—
Kronstadt, Max.

Bristol Seamless Ring Company: *See*—
Kronstadt, Max.

Brown Oil & Chemical Corp., New York and Staten Island, N. Y. Vegetable oils, drying oils, turpentine, rosin, and resin. 555,738, Mar. 4; Serial No. 538,491. Class 16.

Buch Manufacturing Company, Elizabethtown, Pa. Wheelbarrows. 555,707, Mar. 4; Serial No. 612,301, published Nov. 27, 1951. Class 19.

Buch Manufacturing Company, Elizabethtown, Pa. Wheelbarrows. 555,708, Mar. 4; Serial No. 612,304, published Nov. 27, 1951. Class 19.

Buch Manufacturing Company, Elizabethtown, Pa. Wheelbarrows. 555,709, Mar. 4; Serial No. 612,305, published Nov. 20, 1951. Class 19.

Buegeleisen & Jacobson, Inc., New York, N. Y. Musical instruments. 555,657–8, Mar. 4; Serial Nos. 605,717–18, published Dec. 18, 1951. Class 36.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics. 555,618, Mar. 4; Serial No. 597,125, published Dec. 18, 1951. Class 42.

Cadillac Products Inc., Ferndale, Mich. Flexible plastic bag. 555,598, Mar. 4; Serial No. 589,826, published Dec. 18, 1951. Class 2.

Cantrell & Cochrane, Ltd., Dublin, Ireland, to National Phoenix Industries, Inc., New York, N. Y. Club-soda. 37,352, re-renewed Nov. 26, 1951. O. G. Mar. 4. Class 45.

Capitol Records, Inc., Hollywood, Calif. Toy rubber balloons; changeable block game; toy molding sets; stuffed dolls. 555,725, Mar. 4; Serial No. 616,310, published Dec. 11, 1951. Class 22.

Carpenter Steel Company, The, Reading, Pa. Steel. 555,603–4, Mar. 4; Serial Nos. 593,396–7, published Dec. 18, 1951. Class 14.

Carroll, Anthony B., Quincy, Mass. Moving and transporting furniture, household goods, pianos, etc., by moving van. 555,773, Mar. 4; Serial No. 565,848. Class 105.

Carry Cool Container Corporation, Philadelphia, Pa. Portable insulated storage cabinets. 555,750, Mar. 4; Serial No. 580,977. Class 2.

Carter Carburetor Corporation, St. Louis, Mo. Liquid fuel filters and parts thereof. 555,699, Mar. 4; Serial No. 611,890, published Nov. 20, 1951. Class 31.

Caterpillar Tractor Co.: *See*—
Holt Manufacturing Company, The.

Chesterton, A. W., Company, Everett, Mass. Liquid belt dressing. 555,615, Mar. 4; Serial No. 595,655, published Dec. 4, 1951. Class 6.

Chicago Daily News Company, The, Chicago, Ill. Daily newspapers. 129,648, Mar. 9, 1920. Amended. O. G. Mar. 4. Class 38.

Chicago Pharmacal Company, Chicago, Ill. Ointment. 348,675, Aug. 3, 1937. Republished Mar. 4. Class 18.

Chicago Pharmacal Company, Chicago, Ill. Preparation used to increase the appetite, assist assimilation and raise the hemoglobin content of the blood. 555,693, Mar. 4; Serial No. 611,016, published Nov. 6, 1951. Class 18.

Chicago Pump Company, Chicago, Ill. Return line condensation pump and receiving unit. 555,552, Mar. 4; Serial No. 557,902, published Dec. 4, 1951. Class 23.

Chrysler Corporation, Highland Park, Mich. Automobiles and their structural parts. 290,320, renewed Jan. 5, 1952. O. G. Mar. 4. Class 19.

Cia. Johnson & Johnson do Brasil, Sao Paulo, Brazil. Pharmaceutical preparation. 555,596, Mar. 4; Serial No. 588,632, published Nov. 6, 1951. Class 18.

Ciba Limited, Basel, Switzerland. Dyestuffs. 555,654, Mar. 4; Serial No. 604,765, published Dec. 18, 1951. Class 6.

Circle-Y Tool Co.: *See*—
Johnson, Berd L.

Clearview Products, Inc., New York, N. Y. Plastic garment storage bags. 555,681, Mar. 4; Serial No. 609,395, published Dec. 18, 1951. Class 2.

Clover Farm Stores: *See*—
Grocers & Producers Co., The.

Clover Farm Stores Corporation: *See*—
Grocers & Producers Co., The.

Cole, Mrs. Anna Mae, Yachats, Oreg. Cast plastic costume jewelry. 555,621, Mar. 4; Serial No. 598,005, published Nov. 6, 1951. Class 28.

Colgate-Palmolive-Peet Company, Chicago, Ill., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. 288,204, renewed Oct. 20, 1951. O. G. Mar. 4. Class 51.

Compule Corporation, The, Rutherford, N. J. Two-compartment vials adapted to contain separately a therapeutic substance, etc. 555,624, Mar. 4; Serial No. 598,890, published Nov. 6, 1951. Class 44.

Cooper Alloy Foundry Co., The, Hillside, N. J. Threadless metal pipe fittings. 555,758, Mar. 4; Serial No. 591,838. Class 13.

Cooper, William, & Nephews, Incorporated, Chicago, Ill. Agricultural insecticide. 555,713, Mar. 4; Serial No. 612,651, published Dec. 4, 1951. Class 6.

Copeland Refrigeration Corporation, Sidney, Ohio. Domestic electric refrigerators, domestic and commercial water coolers, etc. 555,546, Mar. 4; Serial No. 543,896, published May 23, 1950. Class 31.

Cosmos Dental Products, Inc., New York, N. Y. Resinous material used for cementing and restorative work in dentistry. 555,631, Mar. 4; Serial No. 600,121, published Dec. 18, 1951. Class 44.

Crawford Gum Company, Inc., assignor to American Chicle Company, Long Island City, N. Y. Chewing gum. 555,672, Mar. 4; Serial No. 608,149, published Dec. 11, 1951. Class 46.

Crawford, Herman E., Kernersville, N. C. Lady's and girls' hosiery. 555,668, Mar. 4; Serial No. 607,072, published Nov. 27, 1951. Class 39.

Croessant, George F., doing business as Croessant Machine Works, Reading, Pa. Expansion bolts. 317,347, Sept. 25, 1934. Republished Mar. 4. Class 13.

Croessant Machine Works: *See*—
Croessant, George F.

Crown Can Company, Philadelphia, Pa. Cans. 555,691, Mar. 4; Serial No. 610,955, published Dec. 11, 1951. Class 2.

Cunningham, Edw. P., Inc., New Rochelle, N. Y. Hat boxes. 555,717, Mar. 4; Serial No. 614,042, published Dec. 18, 1951. Class 2.

Darling Products, Inc., Troy, N. Y. Bath salts. 212,811, May 11, 1926. Republished Mar. 4. Class 51.

Dayton Rubber Company, The, Dayton, Ohio. Sponge rubbber sheet stock or pads. 555,554, Mar. 4; Serial No. 561,809, published Dec. 18, 1951. Class 1.

Delightform Foundations, Inc., Easton, Pa. Brassières. 555,768, Mar. 4; Serial No. 607,660. Class 39.

Dispensers, Inc.: *See*—
Na-Mac Products Corporation.

Dodge & Olcott, Inc., New York, N. Y. Chemical compositions. 555,609, Mar. 4; Serial No. 594,624, published Dec. 4, 1951. Class 6.

Dodge & Olcott, Inc. New York, N. Y. Chemical compositions. 555,610–11, Mar. 4; Serial Nos. 594,626–7, published Dec. 4, 1951. Class 6.

Dodge & Olcott, Inc., New York, N. Y. Chemical preparation. 555,612, Mar. 4; Serial No. 594,629, published Dec. 18, 1951. Class 6.

Dodge & Olcott, Inc., New York, N. Y. Chemical compositions. 555,613, Mar. 4; Serial No. 594,631, published Dec. 4, 1951. Class 6.

Dot Recording Co.: *See*—
Dot Records, Incorporated.

Dot Records, Incorporated, doing business as Dot Recording Co., Gallatin, Tenn. Disc grooved phonograph records. 555,622, Mar. 4; Serial No. 598,578, published Dec. 11, 1951. Class 36.

Doughboy Industries, Inc., New Richmond, Wis. Inflatable toys. 555,730, Mar. 4; Serial No. 617,492, published Dec. 11, 1951. Class 22.

Downingtown Manufacturing Company, Downingtown, Pa. Vats used in conjunction with the cylinder molds of paper board machines. 555,563, Mar. 4; Serial No. 568,780, published Dec. 11, 1951. Class 23.

Draper Brothers Company, Canton, Mass. Knitted and woven fabrics. 555,608, Mar. 4; Serial No. 601,606, published Dec. 18, 1951. Class 42.

Draper Brothers Company, Canton, Mass. Wool fabrics. 555,639, Mar. 4; Serial No. 601,888, published Dec. 18, 1951. Class 42.

Dry Cleaning Machinery Corporation, Syracuse, N. Y. Spray pressing guns, spray guns for moistening in textile and fabric finishing, etc. 555,545, Mar. 4; Serial No. 540,264, published Dec. 18, 1951. Class 24.

Duffer Company, Inc., The, Boston, Mass. Men's, women's, and childrens' coats. 555,656, Mar. 4; Serial No. 605,204, published Dec. 18, 1951. Class 39.

Du Pont, E. I., de Nemours and Company: *See*—
Du Pont, E. I., de Nemours Powder Company.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemicals. 291,950, renewed Feb. 23, 1952. O. G. Mar. 4. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 292,875, renewed Mar. 29, 1952. O. G. Mar. 4. Class 6.

Du Pont, E. I., de Nemours Powder Company, Hoboken, N. J., and Wilmington, Del., by E. I. du Pont de Nemours and Company, Wilmington, Del. Imitation leather. 84,611, Dec. 26, 1911. Republished Mar. 4. Class 50.

Durst Manufacturing Company, Inc., The, New York, N. Y. Radiator siphon valves. 293,643, renewed May 3, 1952. O. G. Mar 4. Class 13.

Eastern Clay Products, Inc., Jackson, Ohio, assignor to International Minerals & Chemical Corporation, Chicago, Ill. Adhesive cement. 555,573, Mar. 4; Serial No. 572,955, published Nov. 13 1951. Class 5.

Eaton Manufacturing Company, Cleveland, Ohio. Electromagnetic fan drives. 555,722, Mar. 4; Serial No. 615,693, published Dec. 11, 1951. Class 21.

Echelon Company, Los Angeles, Calif. Cartoon games. 555,757, Mar. 4; Serial No. 590,304. Class 22.

Eclipse Machine Company, to Bendix Aviation Corporation, Elmira Heights, N. Y. Automatic starting mechanism. 289,815, renewed Dec. 8, 1951. O. G. Mar. 4. Class 23.

Ecusta Paper Corporation, Pisgah Forest, N. C. Cigarette paper. 555,700, Mar. 4; Serial No. 611,894, published Nov. 20, 1951. Class 8.

Edison General Electric Appliance Company, Inc., to Hotpoint Inc., Chicago, Ill. Electric heating units. 291,505, renewed Feb. 9, 1952. O. G. Mar. 4. Class 21.

Edison, Thomas A., Incorporated, West Orange, N. J. Dictating machine apparatus. 292,040, renewed Mar. 1, 1952. O. G. Mar. 4. Class 21.

Edwards, Don, Jewelry: *See*—
Edwards, Owen D.

Edwards, Owen D., doing business under the firm name and style of Don Edwards Jewelry, Fresno, Calif. Jewelry. 555,577, Mar. 4; Serial No. 574,352, published Nov. 6 1951. Class 28.

Edwards, William, Company, The, Cleveland, Ohio. Canned spaghetti. 555,532, Mar. 4; Serial No. 493,178, published Dec. 18, 1951. Class 46.

Electro-Technical Industries, Incorporated, Philadelphia, Pa. Television receiving sets. 555,749, Mar. 4; Serial No. 580,358. Class 21.

Elkins, Tiffie C.: *See*—
Esso Standard Oil Company.

Elko Division of W. C. Manufacturing Co.: *See*—
Esso Standard Oil Company.

Elmira Filter Tip Corporation, Elmira, N. Y. Disposable filter cigarette holders. 555,663, Mar. 4; Serial No. 606,282, published Nov. 27, 1951. Class 8.

Emkay Novelty Corp., Chicago, Ill. Tumbling toy. 555,644, Mar. 4; Serial No. 602,606, published Dec. 11, 1951. Class 22.

Empire Brush Works, Inc., Port Chester, N. Y., now by change of name Empire Brushes, Inc. Synthetic plastic monofilament bristles for brushes. 555,645, Mar. 4; Serial No. 602,828, published Nov. 27, 1951. Class 1.

Empire Brushes, Inc.: *See*—
Empire Brush Works, Inc.

Endicott Johnson Corporation, Endicott, N. Y. Boots, shoes, or slippers. 288,696, renewed Nov. 3, 1951. O. G. Mar. 4. Class 39.

Endicott Johnson Corporation, Endicott, N. Y. Boots and shoes. 289,417, renewed Nov. 24, 1951. O. G. Mar. 4. Class 39.

Esso Standard Oil Company, assignee of T. C. Elkins, doing business as Elko Division of W. C. Manufacturing Co., Stephenville, Tex. Radiator stop leak preparation. 555,536, Mar. 4; Serial No. 523,251, published Oct. 5, 1948. Class 6.

Esterbrook Pen Company, The: *See*—
Esterbrook Steel Pen Manufacturing Company, The.

Esterbrook Steel Pen Manufacturing Company, The, to The Esterbrook Pen Company, Camden, N. J. Writing pens, gold and fountain pens, and paper clips, etc. 291,906, renewed Feb. 23, 1952. O. G. Mar. 4. Class 37.

Esterbrook Steel Pen Manufacturing Company, The, to The Esterbrook Pen Company, Camden, N. J. Writing pens of all kinds. 291,912, renewed Feb. 23, 1952. O. G. Mar. 4. Class 37.

Eston Chemicals, Inc., Los Angeles, Calif. Refrigerants. 555,754, Mar. 4; Serial No. 586,747. Class 6.

Etablissements Dupré Romilly-sur-Seine, France. Hosiery. 555,616, Mar. 4; Serial No. 596,785, published Nov. 27, 1951. Class 39.

Evans & Co., Newark, N. J. Marking ruler. 555,607, Mar. 4; Serial No. 594,204, published Nov. 13, 1951. Class 26.

Everett Piano Company, South Haven, Mich. Piano tone-producing units. 555,594, Mar. 4; Serial No. 586,966, published Dec. 11, 1951. Class 36.

Evert, Orville F., San Francisco, Calif. Cooler and dispenser. 555,625, Mar. 4; Serial No. 598,947, published Dec. 4, 1951. Class 31.

Fabriques Movado, La Chaux-de-Fonds, Switzerland. Watches and parts of watches. 290,917, renewed Jan. 19, 1952. O. G. Mar. 4. Class 27.

Faries Manufacturing Company, Decatur, Ill. Electric lamps. 555,745, Mar. 4; Serial No. 572,245. Class 21.

Farrington Texol Corporation, Walpole, Mass. Fabrics. 555,683, Mar. 4; Serial No. 609,545, published Dec. 18, 1951. Class 42.

Fashioncraft Products, Brooklyn, N. Y. Nursing bottle holders. 555,676, Mar. 4; Serial No. 608,789, published Nov. 6, 1951. Class 44.

Feder, Jack, New York, N. Y. Sewing machine and sewing machine parts. 555,770, Mar. 4; Serial No. 611,263. Class 23.

Fidelity Chemical Products Corp., Newark, N. J. Hot dip coating for paper, metal, and wood. 555,761, Mar. 4; Serial No. 596,404. Class 6.

Filippone, B., and Co.: *See*—
Filippone, B., & Co.

Filippone, B., & Co., to B. Filippone and Co., Passaic, N. J. Canned peas, canned tuna fish, canned tomatoes. 291,169, renewed Feb. 2, 1952. O. G. Mar. 4. Class 46.

Filotecnica Salmoiraghi Società per Azioni, Milan, Italy. Lenses for spectacles. 555,649, Mar. 4; Serial No. 603,620, published Nov. 6, 1951. Class 26.

Firth Sterling Steel & Carbide Corporation, McKeesport, Pa. Sintered carbide lathe tools, sintered carbide milling cutter blades, etc. 555,595, Mar. 4; Serial No. 588,370, published Nov. 20, 1951. Class 23.

Firth Sterling Steel & Carbide Corporation, McKeesport, Pa. Sintered carbide lathe tools, sintered carbide milling cutter blades, etc. 555,601, Mar. 4; Serial No. 591,412, published Nov. 20 1951. Class 23.

Fleck, Joseph, New York, N. Y. Electric broilers. 555,751, Mar. 4; Serial No. 582,423. Class 21.

Floridin Company, Warren, Pa. Adsorbents prepared from natural earth. 555,549, Mar. 4; Serial No. 552,238, published Dec. 18, 1951. Class 1.

Food Machinery and Chemical Corporation: *See*—
Food Machinery Corporation.

Food Machinery and Chemical Corporation, San Jose, Calif., and Middleport, N. Y. Parasiticides. 555,635, Mar. 4; Serial No. 601,206, published Dec. 4, 1951. Class 6.

Food Machinery Corporation, now by change of name Food Machinery and Chemical Corporation, San Jose, Calif. Insecticides and fungicides. 555,556, Mar. 4; Serial No. 562,462, published Nov. 27, 1951. Class 6.

Franklin Industries, Franklin, Ind. Tractor-truck-trailer hose and line protector. 555,650, Mar. 4; Serial No. 604,259, published Dec. 4, 1951. Class 19.

Frederick City Packing Company, to Jenkins Brothers, Inc., Frederick, Md. Canned fruits and canned vegetables. 85,653, re-renewed Mar. 5, 1952. O. G. Mar. 4. Class 46.

Froy's: *See*—
Wille, Lorraine H.

Garcia, Charles, & Co., Inc., New York, N. Y. Artificial fish lure. 555,732, Mar. 4; Serial No. 618,160, published Dec. 11, 1951. Class 22.

Geigy Company, Inc., New York, N. Y. Preparations for killing weeds and destroying vermin, insecticides, etc. 555,669, Mar. 4; Serial No. 607,381, published Dec. 4, 1951. Class 6.

General Cable Corporation, to General Cable Corporation, New York, N. Y. Electric wires and cables and terminals therefor. 290,091, renewed Dec. 22, 1951. O. G. Mar. 4. Class 21.

General Drafting Co., Inc., New York, N. Y. Bulletin or magazine. 289,695, renewed Dec. 1, 1951. O. G. Mar. 4. Class 38.

General Printing Ink Corporation, Wilmington, Del., to Sun Chemical Corporation, Long Island City, N. Y. Printing ink. 290,378, renewed Jan. 5, 1952. O. G. Mar. 4. Class 11.

Gerber Products Company, Fremont, Mich. Canned foods for infants and invalids. 555,558, Mar. 4; Serial No. 564,383, published Dec. 11, 1951. Class 46.

Goldinger, Harry, Textile Corporation, Los Angeles, Calif. Fabrics. 555,581, Mar. 4; Serial No. 577,265, published Dec. 18, 1951. Class 42.

Great Bear Spring Company, New York, N. Y. Ice cooled or electrically operated water coolers. 555,655, Mar. 4; Serial No. 605,029, published Nov. 13, 1951. Class 31.

Green Textile Associates, Incorporated, Boston, Mass. Cotton waste. 555,617, Mar. 4; Serial No. 596,914, published Dec. 11, 1951. Class 1.

Grey Iron Casting Company, Mount Joy, Pa. Sets of carpenters' tools. 555,585, Mar. 4; Serial No. 579,819, published Dec. 4, 1951. Class 23.

Grobet File Company of America, Inc., New York, N. Y. Rasps, files, rotary files, and countersinks. 555,665, Mar. 4; Serial No. 606,527, published Oct. 16, 1951. Class 23.

Grocers & Producers Co., The, to Clover Farm Stores Corporation, Cleveland, Ohio. Toilet paper, paper napkins, wrapping paper and wax paper. 288,117, renewed Oct. 20, 1951. O. G. Mar. 4. Class 37.

Grocers & Producers Co., The, doing business as Clover Farm Stores, to Clover Farm Stores Cororation, Cleveland, Ohio. Toilet soap, laundry soap, granulated soap, etc. 290,469, renewed Jan. 5, 1952. O. G. Mar. 4. Class 4.

Gusick, Harry, Antigo, Wis. Artificial fishing lures. 555,733, Mar. 4; Serial No. 618,633, published Dec. 11, 1951. Class 22.

Guth, Edwin F., Company, The, St. Louis, Mo. Supporting channel for electric lighting fixtures. 555,756, Mar. 4; Serial No. 590,020. Class 21.

Guth, Stern, & Co. Inc., New York, N. Y. Mechanical razor blade sharpeners. 292,139, renewed Mar. 1, 1952. O. G. Mar. 4. Class 23.

H & M Pipe Beveling Machine Co.: *See*—
Harter, Mary C.

Harrison Wholesale Company, Chicago, Ill. Removable automobile seat covers. 555,706, Mar. 4; Serial No. 612,203, published Nov. 27, 1951. Class 19.

Harter, Mary C., doing business as H & M Pipe Beveling Machine Co., Tulsa, Okla. Pipe beveling machines. 555,696, Mar. 4; Serial No. 611,358, published Nov. 6, 1951. Class 23.

Hayden Flour Mills, Tempe, Ariz. Wheat flour. 555,626, Mar. 4; Serial No. 599,050, published Dec. 11, 1951. Class 46.

Hedley, Thomas, & Company, Limited, Newcastle-on-Tyne, England, to the Procter & Gamble Company, Cincinnati, Ohio. Toilet soap. 286,017, renewed Aug. 11, 1951. O. G. Mar. 4. Class 52.

Hercules Powder Company, Wilmington, Del. Molding powder. 555,605, Mar. 4; Serial No. 593,923, published Nov. 13, 1951. Class 1.

Heresite & Chemical Company, Manitowoc, Wis. Synthetic crude rubber. 555,690, Mar. 4; Serial No. 610,902, published Nov. 20, 1951. Class 1.

Hickey-Mitchell Company, St. Louis, Mo. Insurance brokerage. 555,735, Mar. 4; Serial No. 564,388, published Dec. 18, 1951. Class 102.

Holophane Company, Inc., New York, N. Y. Glass globes and reflectors. 289,527, renewed Dec. 1, 1951. O. G. Mar. 4. Class 33.

Holt Manufacturing Company, The, Stockton, Calif., to Caterpillar Tractor Co., Peoria, Ill. Gasoline, steam, and traction engines, etc. 85,816, re-renewed Mar. 19, 1952. O. G. Mar. 4. Class 23.

Hooker Electrochemical Company, Tacoma, Wash., and Niagara Falls, N. Y. Acetyl chloride, ammonium benzoate, allylchlorformate, etc. 555,557, Mar. 4; Serial No. 563,183, published Nov. 27, 1951. Class 6.

Hormann, F. R., & Co., Inc., Newark, N. J. Plate and frame filtering apparatus. 555,712, Mar. 4; Serial No. 612,615, published Nov. 27, 1951. Class 31.

Horn, A. C., Company, to Sun Chemical Corporation, Long Island City, N. Y. Caulking compounds. 291,187, renewed Feb. 2, 1952. O. G. Mar. 4. Class 12.

Hotpoint Inc.: *See*—
Edison General Electric Appliance Company, Inc.

Houbigant, Inc., New York, N. Y. Perfumes, toilet water, face powder, etc. 291,457, renewed Feb. 9, 1952. O. G. Mar. 4. Class 51.

Houbigant, Inc., New York, N. Y. Perfumes, toilet water, face powder, talcum powder, etc. 292,278, renewed Mar. 8, 1952. O. G. Mar. 4. Class 51.

Hubinger Company, The, Keokuk, Iowa. Starch. 290,588, renewed Jan. 12, 1952. O. G. Mar. 4. Class 6.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Manually-operated sprayers. 555,593, Mar. 4; Serial No. 586,858, published Dec. 4, 1951. Class 23.

Hudson Valley Rugs Company, New York, N. Y. Rugs and carpets. 555,674, Mar. 4; Serial No. 608,354, published Dec. 18, 1951. Class 42.

Huttner, Daniel, Chicago, Ill. Pillows and mattresses. 421,127, May 21, 1946. Republished Mar. 4. Class 32.

Hydro-Carbon Industries, Inc., Bradford, Pa. Highway car flare devices. 555,762, Mar. 4; Serial No. 596,726. Class 9.

Hygienic Products Company, The, Canton, Ohio. Cleaning powder. 555,673, Mar. 4; Serial No. 608,247, published Nov. 13, 1951. Class 52.

Ideal Toy Corporation, Hollis, N. Y. Dolls. 555,731, Mar. 4; Serial No. 617,498, published Dec. 18, 1951. Class 22.

Illinois Tool Works, Chicago, Ill. Power screw drivers and gears. 555,592, Mar. 4; Serial No. 586,486, published Nov. 27, 1951. Class 23.

Ilsley Doubleday & Company: *See*—
Otis Oil Company, Inc.

Imperial International Corp., New York, N. Y. Stainless steel flatware. 555,698, Mar. 4; Serial No. 611,701, published Nov. 20, 1951. Class 23.

Industrial Gloves Company, Danville, Ill. Hand and arm protectors. 555,752, Mar. 4; Serial No. 585,284. Class 39.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Air-feed hammer-drills. 555,692, Mar. 4; Serial No. 610,979, published Dec. 11, 1951. Class 23.

Injecta, A. G., Teufenthal, Canton of Aargau, Switzerland. Household scales. 555,685, Mar. 4; Serial No. 609,800, published Nov. 20, 1951. Class 26.

Interchemical Corporation: *See*—
International Printing Ink Corporation, The.

International Minerals & Chemical Corporation, assignee: *See*—
Eastern Clay Products, Inc.

International Printing Ink Corporation, The, to Interchemical Corporation, New York, N. Y. Process printing inks. 288,403, renewed Oct. 27, 1951. O. G. Mar 4. Class 11.

Invalift, Inc., Seattle, Wash. Weighing scales. 555,659, Mar. 4; Serial No. 605,858, published Nov. 13, 1951. Class 26.

Jac-Sher Woolen Co., Minneapolis, Minn. Men's, women's and boys' hunting garments and outer wear. 555,614, Mar. 4; Serial No. 594,903, published Nov. 27, 1951. Class 39.

Jarratt, Walter J., to Safety Vulcanizer Company, Chicago, Ill. Electrical vulcanizing equipment. 288,797, renewed Nov. 3, 1951. O. G. Mar. 4. Class 23.

Jayhawk Manufacturing Co., Inc., New York, N. Y. Closet and wardrobe storage accessories. 555,597, Mar. 4; Serial No. 588,841, published Dec. 11, 1951. Class 2.

Jenkins Brothers, Inc.: *See*—
Frederick City Packing Company.

Jetliner Sales Company: *See*—
Moran, James M.

Johnson, Berd L., doing business as Circle-Y Tool Co., Freeport, Ill. Cylinder bore roughing and finishing tools and parts therefor. 555,591, Mar. 4; Serial No. 586,248, published Oct. 16, 1951. Class 23.

Joyce, William H., Hollis, N. Y. Hair coloring pomade. 555,643, Mar. 4; Serial No. 602,405, published Nov. 6, 1951. Class 51.

Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. 555,727, Mar. 4; Serial No. 616,495, published Dec. 18, 1951. Class 42.

Kalex Corporation, New York, N. Y. Clocks. 555,647, Mar. 4; Serial No. 603,299, published Nov. 6, 1951. Class 27.

Kennedy, Mae, trading and doing business as Kennedy Products Company, Cincinnati, Ohio. Goods: Spotting composition. 555,763, Mar. 4; Serial No. 597,963. Class 52.

Kennedy Products Company: *See*—
Kennedy, Mae.

Kent, Percy, Bag Company, North Kansas City, Mo. Fabric and paper bags. 555,550, Mar. 4; Serial No. 553,868, published Dec. 11, 1951. Class 2.

Keohring Company: *See*—
National Equipment Corporation.

Kerite Company, The, Seymour, Conn., and New York, N. Y. Insulated wire and cables. 555,714, Mar. 4; Serial No. 613,462, published Dec. 11, 1951. Class 21.

Kinax, S. A. R. L., Montreuil-Sous-Bois, Seine, France. Photographic apparatus. 555,579, Mar. 4; Serial No. 576,497, published Nov. 13, 1951. Class 26.

Kleinert, I. B., Rubber Company, New York, N. Y. Elasticized fabric sanitary garments. 555,623, Mar. 4; Serial No. 598,657, published Nov. 6, 1951. Class 44.

Knapp-Monarch Company, St. Louis, Mo. Insulated jugs and vacuum jugs. 555,560–2, Mar. 4; Serial Nos. 566,005–7, published Dec. 18, 1951. Class 2.

Knapp-Monarch Company, doing business as Kwikway Co., St. Louis, Mo. Insulated jugs. 555,572, Mar. 4; Serial No. 572,347, published Dec. 11, 1951. Class 2.

Knapp-Monarch Company, St. Louis, Mo. Electric steam generating sadirons. 555,743, Mar. 4; Serial No. 562,479. Class 21.

Kronstadt, Max, doing business as Bristol Seamless Ring Co., by Bristol Seamless Ring Company, New York, N. Y. Finger rings. 280,119, Feb. 10, 1931. Republished Mar. 4. Class 28.

Kwikway Co.: *See*—
Knapp-Monarch Company.

Laboratoires Francais de Chimiotherapie, Paris, France. Medicinal hormone preparation. 555,695, Mar. 4; Serial No. 611,285, published Nov. 6, 1951. Class 18.

Landis Tool Company, Waynesboro, Pa. Machines for grinding alined bearing surfaces on crankshafts, etc. 555,537, Mar. 4; Serial No. 524,878, published Dec. 4, 1951. Class 23.

Lavino, E. J., and Company, Philadelphia, Pa. Refractory concrete. 555,660, Mar. 4; Serial No. 606,148, published Nov. 6, 1951. Class 12.

Lavino, E. J., and Company, Philadelphia, Pa. Chrome ore. 555,680, Mar. 4; Serial No. 609,091, published Nov. 6, 1951. Class 1.

Lectricovers Inc., New York, N. Y. Electric blankets and comforters. 555,772, Mar. 4; Serial No. 614,152. Class 21.

Lee, Harry C., & Co., Inc., New York, N. Y. Tennis rackets, golf clubs, tennis balls, and golf balls. 289,160, renewed Nov. 17, 1951. O. G. Mar. 4. Class 22.

Lemon Cove Association, Lemon Cove, Calif. Fresh citrus fruits. 555,544, Mar. 4; Serial No. 539,184, published May 22, 1951. Class 46.

LeShore Corporation, The, Long Island City, N. Y. Cigarette container and dispenser. 555,620, Mar. 4; Serial No. 597,402, published Dec. 4, 1951. Class 8.

Libbey-Owens-Ford Glass Company, Toledo, Ohio. Window glass, plate glass, laminated glass, etc. 555,640–1, Mar. 4; Serial Nos. 602,036–7, published Nov. 6, 1951. Class 33.

Limestone Products Corporation of America, Newton, N. J. Ground or pulverized limestone. 555,697, Mar. 4; Serial No. 611,441, published Dec. 18, 1951. Class 1.

Limpert Bros., Inc., New York, N. Y., and Vineland, N. J. Peeled, seedless grapes. 555,677, Mar. 4; Serial No. 608,822, published Dec. 18, 1951. Class 46.

Lintner, Kirtley J., Shawnee, Kans. Carpenter's framing instrument. 555,702, Mar. 4; Serial No. 612,020, published Nov. 13, 1951. Class 26.

Lockheed Aircraft Corporation, Burbank, Calif. Airplanes and structural parts therefor. 555,565, Mar. 4; Serial No. 568,958, published Dec. 4, 1951. Class 19.

Long, Dr., Geo. S., Corporation, Pineville, La. Vitamin tonic. 555,682, Mar. 4; Serial No. 609,408, published Nov. 13, 1951. Class 18.

Lyon, William H., Lexington, Mass. Real estate brokerage and fire insurance brokerage. 555,736, Mar. 4; Serial No. 574,522, published Dec. 18, 1951. Class 102.

Macfee Manufacturing Company, Elgin, Ill. Parcel holder for an automotive vehicle. 555,589, Mar. 4; Serial No. 584,989, published Dec. 4, 1951. Class 19.

Mack's Tackle Workshop: *See*—
McGarraugh, Mary M.

Magnus Chemical Company, Inc., Garwood, N. J. Soap and soap mixtures. 175,886, Nov. 13, 1923. Republished Mar. 4. Class 52.

Maiden Form Brassiere Co., Inc., New York, N. Y. Brassières and girdles. 289,828, renewed Dec. 8, 1951. O. G. Mar. 4. Class 39.

Maine Potato Growers, Inc., Presque Isle, Maine. Seed grain, grass seed, and seed potatoes. 555,688, Mar. 4; Serial No. 610,370, published Nov. 6, 1951. Class 1.

Mallory Hat Company, The, Danbury, Conn., by John B. Stetson Company, Philadelphia, Pa. Men's, women's, and children's hats, and men's and boys' caps. 283,116, May 19, 1931. Republished Mar. 4. Class 39.

Manchester Knitted Fashions, Inc., Manchester, N. H. Women's knitted T-shirts, and knitted sweaters. 428,194, Mar. 11, 1947 Republished Mar. 4. Class 39.

Manhattan Soap Company, Inc., New York, N. Y. Soap. 555,540, Mar. 4; Serial No. 532,146, published Nov. 27, 1951. Class 52.

Manning Sand Paper Company, by Behr-Manning Corporation, Troy, N. Y. Abrasive paper and cloth. 97,430, June 2, 1914. Republished Mar. 4. Class 4.

Markline Hosiery Company Inc., New York, N. Y. Women's hosiery. 555,661, Mar. 4; Serial No. 606,156, published Dec. 4, 1951. Class 39.

Martin Varnish Company, Chicago, Ill. Finishes in the nature of paint, varnish, enamel, etc. 289,047, renewed Nov. 17, 1951. O. G. Mar. 4. Class 16.

Master Builders Company, The, Cleveland, Ohio. Finely divided material to be added to Portland cement. 290,430, renewed Jan. 5, 1952. O. G. Mar. 4. Class 12.

McCormick & Company, Incorporated: *See*—
Schilling, A., & Co.

McDonald, James D., doing business under the fictitious name and style of McDonald Manufacturing Company, Los Angeles, Calif. Electric switch plates. 555,721, Mar. 4; Serial No. 615,651, published Dec. 4, 1951. Class 21.

McDonald Manufacturing Company: *See*—
McDonald, James D.

McGarraugh, Mary M., doing business as Mack's Tackle Workshop, San Antonio, Tex. Casting lures. 289,858, renewed Dec. 8, 1951. O. G. Mar. 4. Class 22.

McLaurin-Jones Co., Brookfield, Mass. Decalcomania paper. 555,740, Mar. 4; Serial No. 557,371. Class 37.

Metropolitan Airparts, Van Nuys, assignor to Ryan Aeronautical Corporation, San Diego, Calif. Doors for luggage compartments of airplanes. 555,634, Mar. 4; Serial No. 601,060, published Dec. 4, 1951. Class 19.

Meyer, Herman, doing business as Herman Meyer Drug Co., Richmond Hill, N. Y. Desiccating preparation. 555,602, Mar. 4; Serial No. 393,134, published Dec. 4, 1951. Class 6.

Meyer, Herman, Drug Co.: *See*—
Meyer, Herman.

Miller Brothers Company, Johnson City, Tenn. Wood flooring and millwork. 555,571, Mar. 4; Serial No. 572,315, published Nov. 27, 1951. Class 12.

Miller, T. R., Mill Company, Inc., Brewton, Ala. Preservative treated wood and wood products. 555,588, Mar. 4; Serial No. 582,847, published Aug. 28, 1951. Class 12.

Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Panels completely assembled with indicating or recording gauges, etc. 555,675, Mar. 4; Serial No. 608,425, published Nov. 6, 1951. Class 26.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Mixture of asphalt, crushed mineral aggregate and additive used as road surfacing material. 555,578, Mar. 4; Serial No. 575,280, published Nov. 27, 1951. Class 12.

Mitchell Canneries, Inc., Fort Meade, Fla., and Thomasville, Ga. Canned fruit and canned fruit juices. 555,542, Mar. 4; Serial No. 536,269, published July 5, 1949. Class 46.

Modern Venetian Blinds, Inc., New York, N. Y. Venetian blinds and slats. 555,566, Mar. 4; Serial No. 568,970, published Feb. 28, 1950. Class 32.

Moraine Box Company, Dayton, Ohio. Shipping boxes. 555,564, Mar. 4; Serial No. 568,889, published Dec. 11, 1951. Class 2.

Moran, James M., doing business as Jetliner Sales Company, Chicago, Ill. Automobiles. 555,710, Mar. 4; Serial No. 612,342, published Nov. 7, 1951. Class 19.

Morehouse, Byrum W., doing business under the assumed business name of Morehouse Glass Company, Portland, Oreg. Wall mirrors, hand mirrors, and mirrors used in connection with furniture. 555,764, Mar. 4; Serial No. 598,956. Class 32.

Morehouse Glass Company: *See*—
Morehouse, Byrum W.

Morris Mfg. Co.: *See*—
Slimovitz, Morris L.

Morse Bros. Machinery Company, Denver, Colo. Froth flotation machines and replacement parts therefor. 555,741, Mar. 4; Serial No. 557,945. Class 23.

Mortarless Tile Machine Co., Inc., Los Angeles, Calif. Tile, building blocks, wall blocks, etc. 555,551, Mar. 4; Serial No. 554,998, published Nov. 6, 1951. Class 12.

Motloid Company, The, Chicago, Ill. Self-curing denture acrylic. 555,628, Mar. 4; Serial No. 599,838, published Nov. 6, 1951. Class 44.

Na-Mac Products Corporation, by Dispensers, Inc., Los Angeles, Calif. Tableware with metal dispensing closures. 373,123, Nov. 28, 1939. Republished Mar. 4. Class 13.

National Equipment Corporation, to Keohring Company, Milwaukee, Wis. Machines for pumping cementitious aggregates. 286,720, renewed Sept. 1, 1951. O. G. Mar. 4. Class 23.

National Foam System, Inc., West Chester, Pa. Apparatus for producing fire-extinguishing foam. 555,684, Mar. 4; Serial No. 609,691, published Nov. 20, 1951. Class 23.

National Phoenix Industries, Inc.: *See*—
Cantrell & Cochrane, Ltd.

Nickel Tackle Company, Jacksonville, Fla. Artificial fishing lures. 555,729, Mar. 4; Serial No. 617,309, published Dec. 11, 1951. Class 22.

Optl-Phonetics, Inc., Tuckahoe, N. Y. Series of motion picture films and slide films. 555,587, Mar. 4; Serial No. 582,494, published Nov. 13, 1951. Class 26.

O'Sullivan Rubber Company, Inc., New York, N. Y., to O'Sullivan Rubber Corporation, Winchester, Va. Rubber heels for boots and shoes. 289,810, renewed Dec. 8, 1951. O. G. Mar. 4. Class 39.

O'Sullivan Rubber Corporation: *See*—
O'Sullivan Rubber Company, Inc.

Otis Oil Company, Inc., to Ilsley Doubleday & Company, New York, N. Y. Lubricating oil. 282,339, renewed Apr. 21, 1951. O. G. Mar. 4. Class 15.

Parke, Davis & Company, Detroit, Mich. Anticonvulsant preparation. 555,689, Mar. 4; Serial No. 610,456, published Nov. 6, 1951. Class 18.

Patti Bros. Accordion Co., by Patti Bros. Accordion Mfg. Co., Milwaukee, Wis. Accordions. 259,358, Aug. 16, 1938. Republished Mar. 4. Class 36.

Peoples First National Bank and Trust Company, assignee: *See*—
Shenango Pottery Company.

Perfect Circle Corporation, Hagerstown, Ind. Instructing mechanics and repairmen. 555,734, Mar. 4; Serial No. 537,821, published Oct. 16, 1951. Class 107.

Petroleum Heat and Power Company, New York, N. Y., to Petroleum Heat and Power Company, Stamford, Conn. Gas burners, oil burners, automatic boilers. 293,699, renewed May 3, 1952. O. G. Mar. 4. Class 34.

Petroleum Heat and Power Company, New York, N. Y., to Petroleum Heat and Power Company, Stamford, Conn. Gas burners, oil burners, automatic boilers. 293,762, renewed May 3, 1952. O. G. Mar. 4. Class 34.

Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Floor enamel and floor varnish. 555,737, Mar. 4; Serial No. 533,356. Class 16.

Philco Corporation, Philadelphia, Pa. Home refrigerators, home freezers, and parts thereof. 555,629, Mar. 4; Serial No. 600,075, published Dec. 4, 1951. Class 31.

Phillips, Dr., P., Canning Company: *See*—
Phillips, Dr., P., Company.

Phillips, Dr., P., Company, Orlando, Fla., assignee of Dr. P. Phillips Canning Company. Canned citrus juices. 555,533, Mar. 4; Serial No. 507,020, published Dec. 18, 1951. Class 46.

Phillips Scientific Laboratories: *See*—
Phillips, Walt.

Phillips, Walt, doing business as Phillips Scientific Laboratories, North Arlington, N. J. Deodorizing chemical composition. 555,701, Mar. 4; Serial No. 611,914, published Dec. 18, 1951. Class 6.

Pioneer Rubber Mills, San Francisco, Calif. Combined rubber and fabric belting. 291,076, renewed Jan. 26, 1952. O. G. Mar. 4. Class 35.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Refrigerators. 555,720, Mar. 4; Serial No. 615,190, published Nov. 20, 1951. Class 31.

Pollak Steel Company, The, Cincinnati, Ohio. Steel reinforcing bars. 555,627, Mar. 4; Serial No. 599,652, published Nov. 6, 1951. Class 12.

Premier Drum Company Limited, The, London and South Wigston, Leicester, England. Percussion musical instruments, parts thereof, and accessories therefor. 555,583, Mar. 4; Serial No. 578,519, published Apr. 25, 1950. Class 36.

Procter & Gamble Company, The: *See*—
Hedley, Thomas, & Company, Limited.

Publishers Book Bindery, Inc., Cambridge, Mass. Bookbinding. 555,774, Mar. 4; Serial No. 584,924. Class 106.

R. & G. Distributors, Inc.: *See*—
Rosenberg & Gallant.

Radiart Corporation, The, Cleveland, Ohio. Parts and equipment used for and in connection with radio receiving apparatus. 387,279, May 13, 1941. Republished Mar. 4. Class 21.

Ray-O-Vac Company, Madison, Wis. Dry cell batteries. 364,202, Jan. 24, 1939. Republished Mar. 4. Class 21.

Red Comet Incorporated, Littleton, Colo. Fire extinguisher grenades, and kits containing chemical preparations. 555,646, Mar. 4; Serial No. 602,855, published Dec. 4, 1951. Class 6.

Rek-O-Kut Company, Long Island City, N. Y. Electrically operated phonograph record players. 555,724, Mar. 4; Serial No. 615,902, published Dec. 11, 1951. Class 21.

Resistoflex Corporation, Belleville, N. J. Extruded and molded sheets, slabs, rods, etc. 555,678, Mar. 4; Serial No. 609,054, published Nov. 6, 1951. Class 1.

Robillo & Cuneo, Memphis, Tenn. Olive oil. 291,198, Feb. 2, 1932. Republished Mar. 4. Class 46.

Robinson-Houchin Corporation, The, Columbus, Ohio. Optical rimless edgers, optical cylinder machine, etc. 555,539, Mar. 4; Serial No. 527,788, published Nov. 29, 1949. Class 23.

Rogers Imports Inc., New York, N. Y. Smoking pipes and cigar and cigarette holders. 555,705, Mar. 4; Serial No. 612,137, published Dec. 11, 1951. Class 8.

Ronell, Eva, New York, N. Y. Dress forms. 555,679, Mar. 4; Serial No. 609,055, published Nov. 6, 1951. Class 50.

Rosenberg & Gallant, Bronx, to R. & G. Distributors, Inc., New York, N. Y. Canned fish. 293,281, renewed Apr. 19, 1952. O. G. Mar. 4. Class 46.

Ross Heater & Manufacturing Company, Inc., Buffalo, N. Y. Jacket water coolers, lubricating oil coolers, and gas coolers. 555,652, Mar. 4; Serial No. 604,390, published Nov. 6, 1951. Class 31.

Ross Heater & Manufacturing Company, Inc., Buffalo, N. Y. Jacket water coolers, lubricating oil coolers, and gas coolers. 555,653, Mar. 4; Serial No. 604,392, published Nov. 6, 1951. Class 31.

Ross, Will, Inc., Milwaukee, Wis. Transparent plastic film-like sheeting. 555,671, Mar. 4; Serial No. 608,085, published Dec. 18, 1951. Class 1.

Russell Manufacturing Company, The, Alexander City, Ala. Woven cotton fabrics. 444,068, July 4, 1950. Republished Mar. 4. Class 42.

Ryan Aeronautical Corporation, assignee: *See*—
Metropolitan Airparts.

Safety Vulcanizer Company: *See*—
Jarratt, Walter J.

Sahlein, J. M., Music Company: *See*—
Sahlein, Jules M.

Sahlein, Jules M., doing business as J. M. Sahlein Music Company, San Francisco, Calif. Clarinets and mouthpieces therefor, stringed and fretted instruments, etc. 555,574, Mar. 4; Serial No. 573,002, published Dec. 18, 1951. Class 36.

Sahlein, Jules M., doing business as J. M. Sahlein Music Company, San Francisco, Calif. Accordions; stringed and fretted instruments, etc. 555,575, Mar. 4; Serial No. 573,004, published Dec. 11, 1951. Class 36.

Sal-San Corp., Decatur, Ill. Plastic liners for lunch boxes. 555,651, Mar. 4; Serial No. 604,266, published Dec. 11, 1951. Class 2.

Scarlett, William G., doing business as Wm. G. Scarlett & Co., Baltimore, Md. Grass seed. 555,703, Mar. 4; Serial No. 612,035, published Nov. 27, 1951. Class 1.

Scarlett, William G., doing business as Wm. G. Scarlett & Co., Baltimore, Md. Lawn seed. 555,704, Mar. 4; Serial No. 612,036, published Nov. 27, 1951. Class 1.

Scarlett, Wm. G., & Co.: *See*—
Scarlett, William G.

Schilling, A., & Co., San Francisco, Calif., to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif. Bicarbonate of soda and flavoring salts, etc. 292,974, renewed Apr. 5, 1952. O. G. Mar. 4. Class 46.

Schilling, A., & Co., San Francisco, Calif., to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif. Food flavoring extracts, etc. 293,129, renewed Apr. 12, 1952. O. G. Mar. 4. Class 46.

Schilling, A., & Co., San Francisco, Calif., to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif. Whole spices. 293,130, renewed Apr. 12, 1952. O. G. Mar. 4. Class 46.

Schilling, A., & Co., San Francisco, Calif., to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif. Coloring for food products. 293,268, renewed Apr. 19, 1952. O. G. Mar. 4. Class 46.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 290,747, Jan. 12, 1932. Republished Mar. 4. Class 39.

Schoeneman, J., Incorporated, Baltimore, Md. Coats, vests, trousers, etc. 291,090, Jan. 26, 1932. Republished Mar. 4. Class 39.

Scovill Manufacturing Company, Waterbury, Conn. Lawn sprinklers. 289,932, renewed Dec. 15, 1951. O. G. Mar. 4. Class 13.

Sealtight Corporation, Cedar Rapids, Iowa. Spark plug insulators. 555,742, Mar. 4; Serial No. 561,345. Class 21.

Shenango Pottery Company, New Castle, assignor to Peoples First National Bank and Trust Company, Pittsburgh, Pa. Vitrified dishware. 555,636, Mar. 4; Serial No. 601,573, published Nov. 6, 1951. Class 30.

Shenango Pottery Company, New Castle, assignor to Peoples First National Bank and Trust Company, Pittsburgh, Pa. Vitrified dishware. 555,637, Mar. 4; Serial No. 601,576, published Nov. 6, 1951. Class 30.

Silvers, Louis, doing business as Stepping Tones, Los Angeles, Calif., assignee of Stepping Tones, Inc. Grooved phonograph records. 555,664, Mar. 4; Serial No. 606,341, published Dec. 18, 1951. Class 36.

Simons & French Company, Incorporated, Sacramento, Calif., and New York, N. Y. Fresh vegetables, fresh citrus fruits, fresh deciduous fruits. 288,746, Nov. 3, 1931. Republished Mar. 4. Class 46.

Sintering Machinery Corporation, Netcong, N. J. Light weight aggregate for construction purposes. 555,600, Mar. 4; Serial No. 590,917, published Nov. 13, 1951. Class 12.

Slimovitz, Morris L., doing business under the name Morris Mfg. Co., Newbern, Tenn. Woolen and cotton hunting gloves. 555,769, Mar. 4; Serial No. 610,105. Class 39.

Smith, L. C., & Corona Typewriters, Inc.: *See*—
Standard Typewriter Co.
Standard Typewriter Company.

Snider, I., Clothing Corp., Brooklyn, N. Y. Rental of formal clothes. 555,775, Mar. 4; Serial No. 602,475. Class 100.

Sorkin Music Company Inc., New York, N. Y. Stringed and fretted musical instruments, electrically amplified musical instruments, etc. 555,555, Mar. 4; Serial No. 562,090, published Apr. 25, 1950. Class 36.

South Bend Bait Company, South Bend, Ind. Fishing reels. 555,746, Mar. 4; Serial No. 573,211. Class 22.

Southern California Plastic Company, Glendale, Calif. Plastic dishes, plastic table dishes, plastic boxes, etc. 555,559, Mar. 4; Serial No. 565,018, published Dec. 11, 1951. Class 2.

Southwest Ice & Dairy Products Company, The: *See*— Southwest Utility Dairy Products Company.

Southwest Utility Dairy Products Company, to The Southwest Ice & Dairy Products Company, Oklahoma City, Okla. Ice cream. 288,899, renewed Nov. 10, 1951. O. G. Mar. 4. Class 46.

Spenzer Container Corporation, Greenville, Pa. Telescoping cardboard cylinders. 555,642, Mar. 4; Serial No. 602,172, published Dec. 18, 1951. Class 2.

Spiegel, Inc., Chicago, Ill. Outboard motors. 555,718, Mar. 4; Serial No. 614,222, published Dec. 11, 1951. Class 23.

Spohr, J., Pregassona, Canton Ticino, Switzerland. Enzymes used for intestinal medication. 555,547, Mar. 4; Serial No. 545,909, published Nov. 6, 1951. Class 18.

Staley, A. E., Manufacturing Company, Decatur, Ill. Salad and cooking oil. 293,392, renewed Apr. 19, 1952. O. G. Mar. 4. Class 46.

Standard Typewriter Co., Groton, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Carbon-paper and type-writer ribbons. 84,195, re-renewed Nov. 14, 1951. O. G. Mar. 4. Class 11.

Standard Typewriter Company, Groton, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Type-writing machines and parts thereof. 86,343, re-renewed Apr. 30, 1952. O. G. Mar. 4. Class 23.

Starrett, L. S., Company, The: *See*— Starrett, L. S., Co., The.

Starrett, L. S., Co., The, to The L. S. Starrett Company, Athol, Mass. Ball points, brad sets, tool makers' buttons, etc. 85,923, re-renewed Mar. 26, 1952. O. G. Mar. 4. Class 23.

Stepping Tones: *See*— Silvers, Louis.

Stepping Tones, Inc.: *See*— Silvers, Louis.

Sterli Manufacturing Company, Omaha, Nebr. Casket carriages or trucks. 290,292, renewed Dec. 29, 1951. O. G. Mar. 4. Class 19.

Stetson, John B., Company: *See*— Mallory Hat Company, The.

Stimson Lumber Company, Forest Grove, Oreg. Wallboard. 555,590, Mar. 4; Serial No. 585,349, published Nov. 27, 1951. Class 12.

Stocker Manufacturing Company, Netcong, N. J. Paper bags. 555,715, Mar. 4; Serial No. 613,532, published Dec. 11, 1951. Class 2.

Stroock, S., & Co. Inc., New York, N. Y. Women's coats. 555,553, Mar. 4; Serial No. 558,196, published Dec. 11, 1951. Class 39.

Sun Chemical Corporation: *See*— General Printing Ink Corporation. Horn, A. C., Company.

Sunbeam Corporation, Chicago, Ill. Combs used with shearing and clipping machines. 444,665, Mar. 4; Serial No. 508,321, published Nov. 20, 1951. Class 23.

Sunbeam Corporation, Chicago, Ill. Clipping blades. 444,666, Mar. 4; Serial No. 508,324, published Nov. 20, 1951. Class 23.

Sunbeam Corporation, Chicago, Ill. Combs used with shearing and clipping machines. 444,667, Mar. 4; Serial No. 508,325, published Nov. 20, 1951. Class 23.

Sunbeam Corporation, Chicago, Ill. Cutters. 444,668, Mar. 4; Serial No. 508,335, published Nov. 20, 1951. Class 23.

Sutherland Paper Company, Kalamazoo, Mich. Collapsible cartons. 555,744, Mar. 4; Serial No. 564,978. Class 2.

Svenska Rakb'adsfabriken T. Thunberg: *See*— Thunberg, Tell W.

Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. 290,377, renewed Jan. 5, 1952. O. G. Mar. 4. Class 17.

Tension Envelope Corporation, Kansas City, Mo. Merchandising envelopes. 555,580, Mar. 4; Serial No. 576,724, published Dec. 11, 1951. Class 2.

Thunberg, Tell W., trading as Svenska Rakbladsfabriken T. Thunberg, Grastorp, Sweden. Safety razors and safety razor blades. 555,569, Mar. 4; Serial No. 569,726, published Dec. 4, 1951. Class 23.

Tootal Broadhurst Lee Company Limited, Manchester, England. Cotton handkerchiefs. 84,886, re-renewed Jan. 9, 1952. O. G. Mar. 4. Class 39.

Torsion Balance Company, The, Clifton, N. J. Stainless steel weights. 555,599, Mar. 4; Serial No. 590,479, published Nov. 13, 1951. Class 26.

Towles Limited, Loughborough, England. Hosiery, vests, knickers, etc. 555,619, Mar. 4; Serial No. 597,241, published Nov. 27, 1951. Class 39.

Trau & Loevner Sportswear Co., New York, N. Y. Men's and boys' sport shirts, dress shirts, jackets, etc. 555,759, Mar. 4; Serial No. 594,598. Class 39.

Treffinger, Henry, New York, N. Y. Canned and bottled horse radish, horse radish and beets, etc. 292,641, renewed Mar. 22, 1952. O. G. Mar. 4. Class 46.

Troy Wholesale Corporation, Troy, N. Y. Hosiery, sweaters, and underwear. 286,192, renewed Aug. 18, 1951. O. G. Mar. 4. Class 39.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass., to United Shoe Machinery Corporation, Boston, Mass. Cement solvent or softener. 291,130, renewed Jan. 26, 1952. O. G. Mar. 4. Class 6.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass., to United Shoe Machinery Corporation, Boston, Mass. Shoes. 291,629, renewed Feb. 23, 1952. O. G. Mar. 4. Class 39.

United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass., to United Shoe Machinery Corporation, Boston, Mass. Adhesive cement. 291,869, renewed Feb. 23, 1952. O. G. Mar. 4. Class 5.

United States Gutta Percha Paint Company, Providence, R. I., now by change of name Barreled Sunlight Paint Company. Ready-mixed paints. 555,765, Mar. 4; Serial No. 603,822. Class 16.

U. S. Sanitary Specialties Corporation, Chicago, Ill. Sanitary napkins. 555,686, Mar. 4; Serial No. 609,892, published Nov. 6, 1951. Class 44.

Van Raalte Company, Inc., New York, N. Y. Hosiery. 291,775, renewed Feb. 23, 1952. O. G. Mar. 4. Class 39.

Van Raalte Company, Inc., New York, N. Y. Hosiery. 292,996, renewed Apr. 5, 1952. O. G. Mar. 4. Class 39.

Vulcan Safety Razor Corp., Maplewood, N. J. Safety razor blades. 555,711, Mar. 4; Serial No. 612,426, published Dec. 4, 1951. Class 23.

Walker, Joseph E., doing business as Walker and Sons Apiaries, Milford, Mich. Honey. 555,753, Mar. 4; Serial No. 586,442. Class 46.

Walker and Sons Apiaries: *See*— Walker, Joseph E.

Wallace, R., & Sons Manufacturing Company, Wallingford, Conn. Sterling silver flatware. 555,570, Mar. 4; Serial No. 571,063, published Nov. 6, 1951. Class 28.

West Disinfecting Company, Long Island City, N. Y. Insecticides. 555,633, Mar. 4; Serial No. 600,746, published Dec. 4, 1951. Class 6.

Western Waterproofing Company: *See*— Western Waterproofing Company, Inc.

Western Waterproofing Company, Detroit, Mich. Waterproofing and weatherproofing compositions. 555,541, Mar. 4; Serial No. 534,847, published Nov. 6, 1951. Class 12.

Western Waterproofing Company, Inc., St. Louis, Mo., assignee of Western Waterproofing Company. Cementitious materials. 555,538, Mar. 4; Serial No. 527,350, published Nov. 6, 1951. Class 12.

West Virginia Pulp and Paper Company: *See*— West Virginia Pulp & Paper Company.

West Virginia Pulp & Paper Company, to West Virginia Pulp and Paper Company, New York, N. Y. Printing-paper. 82,938, re-renewed Aug. 1, 1951. O. G. Mar. 4. Class 37.

West Virginia Pulp & Paper Company, to West Virginia Pulp and Paper Company, New York, N. Y. Printing-paper. 82,940, re-renewed Aug. 1, 1951. O. G. Mar. 4. Class 37.

Wheeling Corrugating Company, Wheeling, W. Va. Metal wash tubs. 555,543, Mar. 4; Serial No. 537,531, published Dec. 18, 1951. Class 24.

Wille, Lorraine H., doing business as Froy's, Clearwater, Fla. Pralines. 555,739, Mar. 4; Serial No. 556,156. Class 46.

Willson Products, Inc., Reading, Pa. Lenses. 555,662, Mar. 4; Serial No. 606,248, published Nov. 6, 1951. Class 26.

Woodcraft Industries Incorporated, Chicago, Ill. Wood flooring. 555,606, Mar. 4; Serial No. 593,948, published Nov. 6, 1951. Class 12.

Woodville Lime Products Company, The, Toledo, Ohio. Hydrated lime. 555,687, Mar. 4; Serial No. 609,994, published Nov. 13, 1951. Class 12.

Wright & McGill Co., Denver, Colo. Bulk fish hooks, snelled fish hooks, fish lures, and artificial flies. 555,728, Mar. 4; Serial No. 616,577, published Dec. 11, 1951. Class 22.

Yakima Fruit Growers Association, Yakima, Wash. Fresh deciduous fruits. 555,534, Mar. 4; Serial No. 512,472, published Dec. 18, 1951. Class 46.

Yawman and Erbe Mfg. Co., Rochester, N. Y. Transverse partition plates for filing cabinet drawers. 289,116, renewed Nov. 17, 1951. O. G. Mar. 4. Class 32.

Zimmer Manufacturing Company, Warsaw, Ind. Appliances for the treatment of bone fractures. 555,632, Mar. 4; Serial No. 600,560, published Oct. 30, 1951. Class 44.

Zimmerman, Jay V., Company, St. Louis, Mo. Children's toys. 555,648, Mar. 4; Serial No. 603,325, published Dec. 11, 1951. Class 22.

Zonta International, Chicago, Ill. Monthly publication. 285,920, renewed Aug. 11, 1951. O. G. Mar. 4. Class 38.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Adsorbents prepared from natural earth. Floridin Company. 555,549, Mar. 4; Serial No. 552,238, published Dec. 18, 1951.

Bristles for brushes, Synthetic plastic monofilament. Empire Brush Works, Inc. 555,645, Mar. 4; Serial No. 602,828, published Nov. 27, 1951.

Chrome ore. E. J. Lavino and Company. 555,680, Mar. 4; Serial No. 609,091, published Nov. 6, 1951.

Cotton waste. Green Textile Associates, Incorporated. 555,617, Mar. 4; Serial No. 596,914, published Dec. 11, 1951.

Extruded and molded sheets, slabs, rods, etc. Resistoflex Corporation. 555,678, Mar. 4; Serial No. 609,054, published Nov. 6, 1951.

Limestone, Ground or pulverized. Limestone Products Corporation of America. 555,697, Mar. 4; Serial No. 611,441, published Dec. 18, 1951.

Molding powder. Hercules Powder Company. 555,605, Mar. 4; Serial No. 593,923, published Nov. 13, 1951.

Seed grain, grass seed, and seed potatoes. Maine Potato Growers, Inc. 555,688, Mar. 4; Serial No. 610,370, published Nov. 6, 1951.

Seed, Grass. W. G. Scarlett. 555,703, Mar. 4; Serial No. 612,035, published Nov. 27, 1951.

Seed, Lawn. W. G. Scarlett. 555,704, Mar. 4; Serial No. 612,036, published Nov. 27, 1951.

Sheet stock or pads, Sponge rubber. The Dayton Rubber Company. 555,554, Mar. 4; Serial No. 561,809, published Dec. 18, 1951.

Synthetic crude rubber. Heresite & Chemical Company. 555,690, Mar. 4; Serial No. 610,902, published Nov. 20, 1951.

Tall oil pitch, cottonseed pitch, palm pitch, etc. Armour and Company. 555,667, Mar. 4; Serial No. 606,690, published Nov. 27, 1951.

Transparent plastic film-like sheeting. Will Ross Inc. 555,671, Mar. 4; Serial No. 608,085, published Dec. 18, 1951.

CLASS 2

Bag, Flexible plastic. Cadillac Products Inc. 555,598, Mar. 4; Serial No. 589,826, published Dec. 18, 1951.

Bags, Fabric and paper. Percy Kent Bag Company. 555,550, Mar. 4; Serial No. 553,868, published Dec. 11, 1951.

Bags, Paper. Stocker Manufacturing Company. 555,715, Mar. 4; Serial No. 613,532, published Dec. 11, 1951.

Bags, Plastic garment storage. Clearview Products, Inc. 555,681, Mar. 4; Serial No. 609,395, published Dec. 18, 1951.

Boxes, Hat. Edw. P. Cunningham, Inc. 555,717, Mar. 4; Serial No. 614,042, published Dec. 18, 1951.

Boxes, Shipping. Moraine Box Company. 555,564, Mar. 4; Serial No. 568,889, published Dec. 11, 1951.

Cans. Crown Can Company. 555,691, Mar. 4; Serial No. 610,955, published Dec. 11, 1951.

Cartons, Collapsible. Sutherland Paper Company. 555,744, Mar. 4; Serial No. 564,978.

Dishes, Plastic, plastic table dishes, plastic boxes, etc. Southern California Plastic Company. 555,559, Mar. 4; Serial No. 565,018, published Dec. 11, 1951.

Jugs, Insulated. Knapp-Monarch Company. 555,572, Mar. 4; Serial No. 572,347, published Dec. 11, 1951.

Jugs, Insulated and vacuum jugs. Knapp-Monarch Company. 555,560–2, Mar. 4; Serial Nos. 566,005–7, published Dec. 18, 1951.

Liners for lunch boxes, Plastic. Sal-San Corp. 555,651, Mar. 4; Serial No. 604,266, published Dec. 11, 1951.

Merchandising envelopes. Tension Envelope Corporation. 555,580, Mar. 4; Serial No. 576,724, published Dec. 11, 1951.

Pails, Ice cream. Bloomer Bros. Company. 293,501, renewed Apr. 26, 1952. O. G. Mar. 4.

Portable insulated storage cabinets. Carry Cool Container Corporation. 555,750, Mar. 4; Serial No. 580,977.

Storage accessories, Closet and wardrobe. Jayhawk Manufacturing Co., Inc. 555,597, Mar. 4; Serial No. 588,841, published Dec. 11, 1951.

Telescoping cardboard cylinders. Spenzer Container Corporation. 555,642, Mar. 4; Serial No. 602,172, published Dec. 18, 1951.

CLASS 4

Abrasive paper and cloth. Manning Sand Paper Company. 97,430, June 2, 1914. Republished Mar. 4.

Soap, Toilet, laundry soap, granulated soap, etc. The Grocers & Producers Co. 290,469, renewed Jan. 5, 1952. O. G. Mar. 4.

CLASS 5

Adhesive cement. Eastern Clay Products, Inc. 555,573, Mar. 4; Serial No. 572,955, published Nov. 13, 1951.

Adhesive cement. United Shoe Machinery Corporation. 291,869, renewed Feb. 23, 1952. O. G. Mar. 4.

Paste or glue, Bookbinding adhesive. American Adhesive Manufacturing Co., Inc. 555,586, Mar. 4; Serial No. 580,173, published Nov. 13, 1951.

CLASS 6

Acetyl chloride, ammonium benzoate, allylchlorformate, etc. Hooker Electrochemical Company. 555,557, Mar. 4; Serial No. 563,183, published Nov. 27, 1951.

Agricultural insecticide. William Cooper & Nephews, Incorporated. 555,713, Mar. 4; Serial No. 612,651, published Dec. 4, 1951.

Cement solvent or softener. United Shoe Machinery Corporation. 291,130, renewed Jan. 26, 1952. O. G. Mar. 4.

Chemical compositions. Dodge & Olcott, Inc. 555,609, Mar. 4; Serial No. 594,624, published Dec. 4, 1951.

Chemical compositions. Dodge & Olcott, Inc. 555,610–11, Mar. 4; Serial Nos. 594,626–7, published Dec. 4, 1951.

Chemical compositions. Dodge & Olcott, Inc. 555,613, Mar. 4; Serial No. 594,631, published Dec. 4, 1951.

Chemical compositions Deodorizing. W. Phillips. 555,701, Mar. 4; Serial No. 611,914, published Dec. 18, 1951.

Chemical preparation. Dodge & Olcott, Inc. 555,612, Mar. 4; Serial No. 594,629, published Dec. 18, 1951.

Chemicals. E. I. du Pont de Nemours and Company. 291,950, renewed Feb. 23, 1952. O. G. Mar. 4.

Chemicals, Heat producing. Acieries De Gennevilliers. 289,036, renewed Nov. 17, 1951. O. G. Mar. 4.

Desiccating preparation. H. Meyer. 555,602, Mar. 4; Serial No. 593,134, published Dec. 4, 1951.

Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 292,875, renewed Mar. 29, 1952. O. G. Mar. 4.

Dyestuffs. Ciba Limited. 555,654, Mar. 4; Serial No. 604,765, published Dec. 18, 1951.

Fire extinguisher grenades, and kits containing chemical preparations. Red Comet Incorporated. 555,646, Mar. 4; Serial No. 602,855, published Dec. 4, 1951.

Hot dip coating for paper, metal, and wood. Fidelity Chemical Products Corp. 555,761, Mar. 4; Serial No. 596,404.

Insecticides. West Disinfecting Company. 555,633, Mar. 4; Serial No. 600,746, published Dec. 4, 1951.

Insecticides and fungicides. Food Machinery Corporation. 555,556, Mar. 4; Serial No. 562,462, published Nov. 27, 1951.

Liquid belt dressing. A. W. Chesterton Company. 555,615, Mar. 4; Serial No. 595,655, published Dec. 4, 1951.

Parasiticides. Food Machinery and Chemical Corporation. 555,635, Mar. 4; Serial No. 601,206, published Dec. 4, 1951.

Preparations for killing weeds and destroying vermin, insecticides, etc. Geigy Company, Inc. 555,669, Mar. 4; Serial No. 607,381, published Dec. 4, 1951.

Radiator stop leak preparation. Esso Standard Oil Company. 555,536, Mar. 4; Serial No. 523,251, published Oct. 5, 1948.

Refrigerants. Eston Chemicals, Inc. 555,754, Mar. 4; Serial No. 586,747.

Starch. The Hubinger Company. 290,588, renewed Jan. 12, 1952. O. G. Mar. 4.

CLASS 7

Ribbons, Packaged rayon acetate. Berwick Textile Products Company, Incorporated. 555,771, Mar. 4; Serial No. 612,380.

CLASS 8

Cigarette container and dispenser. The LeShore Corporation. 555,620, Mar. 4; Serial No. 597,402, published Dec. 4, 1951.

Cigarette holders, Disposable filter. Elmira Filter Tip Corporation. 555,663, Mar. 4; Serial No. 606,282, published Nov. 27, 1951.

Cigarette paper. Ecusta Paper Corporation. 555,700, Mar. 4; Serial No. 611,894, published Nov. 20, 1951.

Lighters, Cigar and cigarette. Blairsville Machine Products Company. 555,535, Mar. 4; Serial No. 519,621, published Dec. 4, 1951.

Pipes, Smoking, and cigar and cigarette holders. Rogers Imports Inc. 555,705, Mar. 4; Serial No. 612,137, published Dec. 11, 1951.

Tobacco pouches. Beattie Jet Products, Inc. 555,584, Mar. 4; Serial No. 578,562, published Dec. 4, 1951.

CLASS 9

Flare devices, Highway car. Hydro-Carbon Industries, Inc. 555,762, Mar. 4; Serial No. 596,726.

CLASS 11

Carbon-paper and type-writer ribbons. Standard Typewriter Co. 84,195, re-renewed Nov. 14, 1951. O. G. Mar. 4.

Ink, Printing. General Printing Ink Corporation. 290,378, renewed Jan. 5, 1952. O. G. Mar. 4.

Inks. Process printing. The International Printing Ink Corporation. 288,403, renewed Oct. 27, 1951. O. G. Mar. 4.

CLASS 12

Aluminum moldings and trims. The B & T Metals Company. 555,638, Mar. 4; Serial No. 601,708, published Nov. 6, 1951.
Caulking compounds. A. C. Horn Company. 291,187, renewed Feb. 2, 1952. O. G. Mar. 4.
Cementitious materials. Western Waterproofing Company, Inc. 555,538, Mar. 4; Serial No. 527,350, published Nov. 6, 1951.
Concrete, Refractory. E. J. Lavino and Company. 555,660, Mar. 4; Serial No. 606,148, published Nov. 6, 1951.
Finely divided material to be added to Portland cement. The Master Builders Company. 290,430, renewed Jan. 5, 1952. O. G. Mar. 4.
Flooring, Wood. Woodcraft Industries Incorporated. 555,606, Mar. 4; Serial No. 593,948, published Nov. 6, 1951.
Flooring, Wood, and millwork. Miller Brothers Company. 555,571, Mar. 4; Serial No. 572,315, published Nov. 27, 1951.
Fused aluminum oxide grains used to provide a non-slip surface when trowelled into the top of concrete sidewalks, etc. American Abrasive Metals Company. 555,630, Mar. 4; Serial No. 600,112, published Nov. 6, 1951.
Hydrated lime. The Woodville Lime Products Company. 555,687, Mar. 4; Serial No. 609,994, published Nov. 13, 1951.
Light weight aggregate for construction purposes. Sintering Machinery Corporation. 555,600, Mar. 4; Serial No. 590,917, published Nov. 13, 1951.
Mixture of asphalt, crushed mineral aggregate and additive used as road surfacing material. Minnesota Mining & Manufacturing Company. 555,578, Mar. 4; Serial No. 575,280, published Nov. 27, 1951.
Rolled metal shapes and rolled metal mouldings for construction purposes. The Bailey Company, Incorporated. 555,567–8, Mar. 4; Serial Nos. 569,240–1, published Nov. 13, 1951.
Steel reinforcing bars. The Pollak Steel Company. 555,627, Mar. 4; Serial No. 599,652, published Nov. 6, 1951.
Tile, building blocks, wall blocks, etc. Mortarless Tile Machine Co., Inc. 555,551, Mar. 4; Serial No. 554,998, published Nov. 6, 1951.
Wallboard. Stimson Lumber Company. 555,590, Mar. 4; Serial No. 585,349, published Nov. 27, 1951.
Waterproofing and weatherproofing compositions. Western Waterproofing Company. 555,541, Mar. 4; Serial No. 534,847, published Nov. 6, 1951.
Wood and wood products, Preservative treated. T. R. Miller Mill Company, Inc. 555,588, Mar. 4; Serial No. 582,847, published Aug. 28, 1951.

CLASS 13

Bolts, Expansion. G. F. Croessant. 317,347, Sept. 25, 1934. Republished Mar. 4.
Pipe fittings, Threadless metal. The Cooper Alloy Foundry Co. 555,758, Mar. 4; Serial No. 591,838.
Sprinklers, Lawn. Scovill Manufacturing Company. 289,932, renewed Dec. 15, 1951. O. G. Mar. 4.
Tableware with metal dispensing closures. Na-Mac Products Corporation. 373,123, Nov. 28, 1939. Republished Mar. 4.
Valves, Radiator siphon. The Durst Manufacturing Company, Inc. 293,643, renewed May 3, 1952. O. G. Mar. 4.

CLASS 14

Steel. The Carpenter Steel Company. 555,603–4, Mar. 4; Serial Nos. 593,396–7, published Dec. 18, 1951.

CLASS 15

Oil, Lubricating. Otis Oil Company, Inc. 282,339, renewed Apr. 21, 1951. O. G. Mar. 4.

CLASS 16

Enamel, Floor, and floor varnish. Phelan-Faust Paint Mfg. Co. 555,737, Mar. 4; Serial No. 533,356.
Finishes in the nature of paint, varnish, enamel, etc. Martin Varnish Company. 289,047, renewed Nov. 17, 1951. O. G. Mar. 4.
Paints, Ready-mixed. United States Gutta Percha Paint Company. 555,765, Mar. 4; Serial No. 603,822.
Vegetable oils, drying oils, turpentine, rosin and resin. Brown Oil & Chemical Corp. 555,738, Mar. 4; Serial No. 538,491.

CLASS 17

Cigars. Jno. H. Swisher & Son, Inc. 290,377, renewed Jan. 5, 1952. O. G. Mar. 4.

CLASS 18

Anticonvulsant preparation. Parke, Davis & Company. 555,689, Mar. 4; Serial No. 610,456, published Nov. 6, 1951.
Enzymes used for intenstinal medication. J. Spohr. 555,547, Mar. 4; Serial No. 545,909, published Nov. 6, 1951.
Medicinal hormone preparation. Laboratoires Francais de Chimiotherapie. 555,695, Mar. 4; Serial No. 611,285, published Nov. 6, 1951.
Ointment. Chicago Pharmacal Company. 348,675, Aug. 3, 1937. Republished Mar. 4.
Pharmaceutical preparation. Cia. Johnson & Johnson do Brasil. 555,596, Mar. 4; Serial No. 588,632, published Nov. 6, 1951.
Preparation used to increase the appetite, assist assimilation and raise the hemoglobin content of the blood. 555,693, Mar. 4; Serial No. 611,016, published Nov. 6, 1951.
Vitamin tonic. Dr. Geo. S. Long Corporation. 555,682, Mar. 4; Serial No. 609,408, published Nov. 13, 1951.

CLASS 19

Airplanes and structural parts therefor. Lockheed Aircraft Corporation. 555,565, Mar. 4; Serial No. 568,958, published Dec. 4, 1951.
Automobile seat covers, Removable. Harrison Wholesale Company. 555,706, Mar. 4; Serial No. 612,203, published Nov. 27, 1951.
Automobiles. J. M. Moran. 555,710, Mar. 4; Serial No. 612,342, published Nov. 27, 1951.
Automobiles and their structural parts. Chrysler Corporation. 290,320, renewed Jan. 5, 1952. O. G. Mar. 4.
Carriages or trucks, Casket. Steril Manufacturing Company. 290,292, renewed Dec. 29, 1951. O. G. Mar. 4.
Doors for luggage compartments of airplanes. Metropolitan Airparts. 555,634, Mar. 4; Serial No. 601,060, published Dec. 4, 1951.
Parcel holder for an automotive vehicle. Macfee Manufacturing Company. 555,589, Mar. 4; Serial No. 584,989, published Dec. 4, 1951.
Tractor-truck-trailer hose and line protector. Franklin Industries. 555,650, Mar. 4; Serial No. 604,259, published Dec. 4, 1951.
Wheelbarrows. Buch Manufacturing Company. 555,707, Mar. 4; Serial No. 612,301, published Nov. 27, 1951.
Wheelbarrows. Buch Manufacturing Company. 555,708, Mar. 4; Serial No. 612,304, published Nov. 27, 1951.
Wheelbarrows. Buch Manufacturing Company. 555,709, Mar. 4; Serial No. 612,305, published Nov. 20, 1951.

CLASS 21

Batteries, Dry cell. Ray-O-Vac Company. 364,202, Jan. 24, 1939. Republished Mar. 4.
Broilers, Electric. J. Fleck. 555,751, Mar. 4; Serial No. 582,423.
Dictating machine apparatus. Thomas A. Edison, Incorporated. 292,040, renewed Mar. 1, 1952. O. G. Mar. 4.
Electric blankets and comforters. Lectricovers Inc. 555,772, Mar. 4; Serial No. 614,152.
Electric saws, Portable. The Black and Decker Manufacturing Company. 555,767, Mar. 4; Serial No. 607,616.
Electric switch plates. J. D. McDonald. 555,721, Mar. 4; Serial No. 615,651, published Dec. 4, 1951.
Electric wires and cables and terminals therefor. General Cable Corporation. 290,091, renewed Dec. 22, 1951. O. G. Mar. 4.
Electromagnetic fan drives. Eaton Manufacturing Company. 555,722, Mar. 4; Serial No. 615,693, published Dec. 11, 1951.
Heating units, Electric. Edison General Electric Appliance Company, Inc. 291,505, renewed Feb. 9, 1952. O. G. Mar. 4.
Insulated wire and cables. The Kerite Company. 555,714, Mar. 4; Serial No. 613,462, published Dec. 11, 1951.
Insulators, Spark plug. Sealtight Corporation. 555,742, Mar. 4; Serial No. 561,345.
Lamps, Electric. Faries Manufacturing Company. 555,745, Mar. 4; Serial No. 572,245.
Parts and equipment used for and in connection with radio receiving apparatus. The Radiart Corporation. 387,279, May 13, 1941. Republished Mar. 4.
Record players, Electrically operated phonograph. Rek-O-Kut Company. 555,724, Mar. 4; Serial No. 615,902, published Dec. 11, 1951.
Sadirons, Electric steam generating. Knapp-Monarch Company. 555,743, Mar. 4; Serial No. 562,479.
Supporting channel for electric lighting fixtures. The Edwin F. Guth Company. 555,756, Mar. 4; Serial No. 590,020.
Television receiving sets. Electro-Technical Industries, Incorporated. 555,749, Mar. 4; Serial No. 580,358.

CLASS 22

Casting lures. M. M. McGarraugh. 289,858, renewed Dec. 8, 1951. O. G. Mar. 4.
Dolls. Ideal Toy Corporation. 555,731, Mar. 4; Serial No. 617,498, published Dec. 18, 1951.
Fish hooks, Bulk, snelled fish hooks, fish lures, and artificial flies. Wright & McGill Co. 555,728, Mar. 4; Serial No. 616,577, published Dec. 11, 1951.
Fish lure, Artificial. Charles Garcia & Co., Inc. 555,732, Mar. 4; Serial No. 618,160, published Dec. 11, 1951.

Fishing lures, Artificial. H. Gusick. 555,733, Mar. 4; Serial No. 618,633, published Dec. 11, 1951.
Fishing lures, Artificial. Nickel Tackle Company. 555,729, Mar. 4; Serial No. 617,309, published Dec. 11, 1951.
Fishing reels. South Bend Bait Company. 555,746, Mar. 4; Serial No. 573,211.
Games, Cartoon. Echelon Company. 555,757, Mar. 4; Serial No. 590,304.
Rackets, Tennis, golf clubs, tennis balls, and golf balls. Harry C. Lee & Co., Inc. 289,160, renewed Nov. 17, 1951. O. G. Mar. 4.
Toy rubber balloons; changeable block game; toy molding sets; stuffed dolls. Capitol Records, Inc. 555,725, Mar. 4; Serial No. 616,310, published Dec. 11, 1951.
Toy, Tumbling. Emkay Novelty Corp. 555,644, Mar. 4; Serial No. 602,606, published Dec. 11, 1951.
Toys, Children's. Jay V. Zimmerman Company. 555,648, Mar. 4; Serial No. 603,325, published Dec. 11, 1951.
Toys, Inflatable. Doughboy Industries, Inc. 555,730, Mar. 4; Serial No. 617,492, published Dec. 11, 1951.

CLASS 23

Apparatus for producing fire-extinguishing foam. National Foam System, Inc. 555,684, Mar. 4; Serial No. 609,691, published Nov. 20, 1951.
Automatic unitary device. Automatic Products Company. 555,548, Mar. 4; Serial No. 551,849, published Dec. 4, 1951.
Ball points, brad sets, tool makers' buttons, etc. The L. S. Starrett Co. 85,923, re-renewed Mar. 26, 1952. O. G. Mar. 4.
Clipping blades. Sunbeam Corporation. 444,666, Mar. 4; Serial No. 508,324, published Nov. 20, 1951.
Combs used with shearing and clipping machines. Sunbeam Corporation. 444,665, Mar. 4; Serial No. 508,321, published Nov. 20, 1951.
Combs used with shearing nad clipping machines. Sunbeam Corporation. 444,667, Mar. 4; Serial No. 508,325, published Nov. 20, 1951.
Condensation pump and receiving unit, Return line. Chicago Pump Company. 555,552, Mar. 4; Serial No. 557,902, published Dec. 4, 1951.
Cutters. Sunbeam Corporation. 444,668, Mar. 4; Serial No. 508,335, published Nov. 20, 1951.
Cylinder bore roughing and finishing tools and parts therefor. B. L. Johnson. 555,591, Mar. 4; Serial No. 586,248, published Oct. 16, 1951.
Electrical vulcanizing equipment. W. J. Jarratt. 288,797, renewed Nov. 3, 1951. O. G. Mar. 4.
Flatware, Stainless steel. Imperial International Corp. 555,698, Mar. 4; Serial No. 611,701, published Nov. 20, 1951.
Froth flotation machines and replacement parts therefor. Morse Bros. Machinery Company. 555,741, Mar. 4; Serial No. 557,945.
Gasolene, steam, and traction engines, etc. The Holt Manufacturing Company. 85,816, re-renewed Mar. 19, 1952. O. G. Mar. 4.
Hammer-drills, Air-feed. Ingersoll-Rand Company. 555,692, Mar. 4; Serial No. 610,979, published Dec. 11, 1951.
Knives, Pocket, and place settings. W. Boyd. 555,666, Mar. 4; Serial No. 606,648, published Oct. 16, 1951.
Lathe tools, Sintered carbide, sintered carbide milling cutter blades, etc. Firth Sterling Steel & Carbide Corporation. 555,595, Mar. 4; Serial No. 588,370, published Nov. 20, 1951.
Lathe tools, Sintered carbide, sintered carbide milling cutter blades, etc. Firth Sterling Steel & Carbide Corporation. 555,601, Mar. 4; Serial No. 591,412, published Nov. 20, 1951.
Machines for grinding alined bearing surfaces on crankshafts, etc. Landis Tool Company. 555,537, Mar. 4; Serial No. 524,878, published Dec. 4, 1951.
Machines for pumping cementitious aggregates. National Equipment Corporation. 286,720, renewed Sept. 1, 1951. O. G. Mar. 4.
Optical rimless edgers, optical cylinder machine, etc. The Robinson-Houchin Corporation. 555,539, Mar. 4; Serial No. 527,788, published Nov. 29, 1949.
Outboard motors. Spiegel, Inc. 555,718, Mar. 4; Serial No. 614,222, published Dec. 11, 1951.
Pipe beveling machines. M. C. Harter. 555,696, Mar. 4; Serial No. 611,358, published Nov. 6, 1951.
Rasps, files, rotary files, and countersinks. Grobet File Company of America, Inc. 555,665, Mar. 4; Serial No. 606,527, published Oct. 16, 1951.
Razor blade sharpeners, Mechanical. Guth Stern & Co. Inc. 292,139, renewed Mar. 1, 1952. O. G. Mar. 4.
Razor blades, Safety. Vulcan Safety Razor Corp. 555,711, Mar. 4; Serial No. 612,426, published Dec. 4, 1951.
Razors, Safety, and safety razor blades. T. W. Thunberg. 555,569, Mar. 4; Serial No. 569,726, published Dec. 4, 1951.
Road scrapers, rippers, snow plows, etc. Atlas Scraper and Engineering Co. 555,576, Mar. 4; Serial No. 573,823, published Dec. 4, 1951.
Saws and parts thereof, Power. American Machine & Tool Co., Inc. 555,748, Mar. 4; Serial No. 578,477.
Screw drivers and gears, Power. Illinois Tool Works. 555,592, Mar. 4; Serial No. 586,486, published Nov. 27, 1951.
Sets of carpenters' tools. Grey Iron Casting Company. 555,585, Mar. 4; Serial No. 579,819, published Dec. 4, 1951.
Sewing machine and sewing machine parts. J. Feder. 555,770, Mar. 4; Serial No. 611,263.
Sprayers. Bridgeport Brass Company. 555,670, Mar. 4; Serial No. 607,927, published Nov. 20, 1951.
Sprayers, Manually-operated. H. D. Hudson Manufacturing Company. 555,593, Mar. 4; Serial No. 586,858, published Dec. 4, 1951.
Starting mechanism, Automatic. Eclipse Machine Company. 289,815, renewed Dec. 8, 1951. O. G. Mar. 4.
Type-writing machines and parts thereof. Standard Typewriter Company. 86,343, re-renewed Apr. 30, 1952. O. G. Mar. 4.
Vats used in conjunction with the cylinder molds of paper board machines. Downingtown Manufacturing Company. 555,563, Mar. 4; Serial No. 568,780, published Dec. 11, 1951.

CLASS 24

Pressing guns, Spray, spray guns for moistening in textile and fabric finishing, etc. Dry Cleaning Machinery Corporation. 555,545, Mar. 4; Serial No. 540,264, published Dec. 18, 1951.
Wash tubs, Metal. Wheeling Corrugating Company. 555,543, Mar. 4; Serial No. 537,531, published Dec. 18, 1951.

CLASS 26

Framing instrument, Carpenter's. K. J. Lintner. 555,702, Mar. 4; Serial No. 612,020, published Nov. 13, 1951.
Lenses. Willson Products, Inc. 555,662, Mar. 4; Serial No. 606,248, published Nov. 6, 1951.
Lenses and eyeglass, goggle and spectacle frames and parts therefor. American Zyloptic Co., Inc. 555,582, Mar. 4; Serial No. 578,126, published Nov. 13, 1951.
Lenses for spectacles. Filotecnica Salmoiraghi Societa per Azioni. 555,649, Mar. 4; Serial No. 603,620, published Nov. 6, 1951.
Optical objectives. American Optical Company. 555,726, Mar. 4; Serial No. 616,470, published Nov. 6, 1951.
Panels completely assembled with indicating or recording gauges, etc. Minneapolis-Honeywell Regulator Company. 555,675, Mar. 4; Serial No. 608,426, published Nov. 6, 1951.
Photographic apparatus. S. A. R. L. Kinax. 555,579, Mar. 4; Serial No. 576,497, published Nov. 13, 1951.
Ruler, Marking. Evans & Co. 555,607, Mar. 4; Serial No. 594,204, published Nov. 13, 1951.
Scales, Household. Injecta A. G. 555,685, Mar. 4; Serial No. 609,800, published Nov. 20, 1951.
Scales, Weighing. Invalift, Inc. 555,659, Mar. 4; Serial No. 605,858, published Nov. 13, 1951.
Series of motion picture films and slide films. Opti-Phonetics, Inc. 555,587, Mar. 4; Serial No. 582,494, published Nov. 13, 1951.
Weights, Stainless steel. The Torsion Balance Company. 555,599, Mar. 4; Serial No. 590,479, published Nov. 13, 1951.

CLASS 27

Clocks. Kalex Corporation. 555,647, Mar. 4; Serial No. 603,299, published Nov. 6, 1951.
Watches and parts of watches. Fabriques Movado. 290,917, renewed Jan. 19, 1952. O. G. Mar. 4.

CLASS 28

Flatware, Sterling silver. R. Wallace & Sons Manufacturing Company. 555,570, Mar. 4; Serial No. 571,063, published Nov. 6, 1951.
Jewelry. O. D. Edwards. 555,577, Mar. 4; Serial No. 574,352, published Nov. 6, 1951.
Jewelry, Cast plastic costume. Mrs. A. M. Cole. 555,621, Mar. 4; Serial No. 598,005, published Nov. 6, 1951.
Rings, Finger. M. Kronstadt. 280,119, Feb. 10, 1931. Republished Mar. 4.

CLASS 29

Beauty (powder) puffs. Acme Cotton Products Co., Inc. 280,482, Feb. 17, 1931. Republished Mar. 4.

CLASS 30

Dishware, Vitrified. Shenango Pottery Company. 555,636, Mar. 4; Serial No. 601,573, published Nov. 6, 1951.
Dishware, Vitrified. Shenango Pottery Company. 555,637, Mar. 4; Serial No. 601,576, published Nov. 6, 1951.

CLASS 31

Cooler and dispenser. O. F. Evert. 555,625, Mar. 4; Serial No. 598,947, published Dec. 4, 1951. Class 31.
Filtering apparatus, Plate and frame. F. R. Hormann & Co., Inc. 555,712, Mar. 4; Serial No. 612,615, published Nov. 27, 1951.
Filters and parts thereof, Liquid fuel. Carter Carburetor Corporation. 555,699, Mar. 4; Serial No. 611,890, published Nov. 20, 1951.
Refrigerators. Affiliated Retailers, Inc. 555,719, Mar. 4; Serial No. 614,682, published Nov. 20, 1951.
Refrigerators. Plymouth Wholesale Dry Goods Corporation. 555,720, Mar. 4; Serial No. 615,190, published Nov. 20, 1951.

Refrigerators, Domestic electric, domestic and commercial water coolers, etc. Copeland Refrigeration Corporation. 555,546, Mar. 4; Serial No. 543,896, published May 23, 1950.
Refrigerators, Electric. Aldens, Inc. 555,723, Mar. 4; Serial No. 615,741, published Dec. 4, 1951.
Refrigerators, Electric, and home freezers. Avco Manufacturing Corporation. 555,716, Mar. 4; Serial No. 613,984, published Nov. 6, 1951.
Refrigerators, Home, home freezers, and parts thereof. Philco Corporation. 555,629, Mar. 4; Serial No. 600,075, published Dec. 4, 1951.
Water coolers, Ice cooled or electrically operated. Great Bear Spring Company. 555,655, Mar. 4; Serial No. 605,029, published Nov. 13, 1951.
Water coolers, Jacket, lubricating oil coolers and gas coolers. Ross Heater & Manufacturing Company, Inc. 555,652, Mar. 4; Serial No. 604,390, published Nov. 16, 1951.
Water coolers, Jacket, lubricating oil coolers and gas coolers. Ross Heater & Manufacturing Company, Inc. 555,653, Mar. 4; Serial No. 604,392, published Nov. 6, 1951.

CLASS 32

Mirrors, Wall, hand mirrors, and mirrors used in connection with furniture. B. W. Morehouse. 555,764, Mar. 4; Serial No. 598,956.
Pillows and mattresses. D. Huttner. 421,127, May 21, 1946. Republished Mar. 4.
Transverse partition plates for filing cabinet drawers. Yawman and Erbe Mfg. Co. 289,116, renewed Nov. 17, 1951. O. G. Mar. 4.
Venetian blinds and slats. Modern Venetian Blinds, Inc. 555,566, Mar. 4; Serial No. 568,970, published Feb. 28, 1950.

CLASS 33

Glass globes and reflectors. Holophane Company, Inc. 289,527, renewed Dec. 1, 1951. O. G. Mar. 4.
Glass, Window, plate glass, laminated glass, etc. Libbey-Owens-Ford Glass Company. 555,640–1, Mar. 4; Serial Nos. 602,036–7, published Nov. 6, 1951.

CLASS 34

Burners, Gas, oil burners, automatic boilers. Petroleum Heat and Power Company. 293,699, renewed May 3, 1952. O. G. Mar. 4.
Burners, Gas, oil burners, automatic boilers. Petroleum Heat and Power Company. 293,762, renewed May 3, 1952. O. G. Mar. 4.

CLASS 35

Rubber and fabric belting, Combined. Pioneer Rubber Mills. 291,076, renewed Jan. 26, 1952. O. G. Mar. 4.

CLASS 36

Accordions. Patti Bros. Accordion Mfg. Co. 359,358, Aug. 16, 1938. Republished Mar. 4.
Accordions; stringed and fretted instruments, etc. J. M. Sahlein. 555,575, Mar. 4; Serial No. 573,004, published Dec. 11, 1951.
Clarinets, and mouthpieces therefor, stringed and fretted instruments, etc. J. M. Sahlein. 555,574, Mar. 4; Serial No. 573,002, published Dec. 18, 1951.
Musical instruments. Buegeleisen & Jacobson, Inc. 555,657–8, Mar. 4; Serial Nos. 605,717–18, published Dec. 18, 1951.
Musical instruments, Percussion, parts thereof, and accessories therefor. The Premier Drum Company Limited. 555,583, Mar. 4; Serial No. 578,519, published Apr. 25, 1950.
Musical instruments, Stringed and fretted, electrically amplified musical instruments, etc. Sorkin Music Company Inc. 555,555, Mar. 4; Serial No. 562,090, published Apr. 25, 1950.
Phonograph records, Disc grooved. Dot Records, Incorporated. 555,622, Mar. 4; Serial No. 598,578, published Dec. 11, 1951.
Phonograph records, Grooved. L. Silvers. 555,664, Mar. 4; Serial No. 606,341, published Dec. 18, 1951.
Piano tone-producing units. Everett Piano Company. 555,594, Mar. 4; Serial No. 586,966, published Dec. 11, 1951.

CLASS 37

Paper, Decalcomania. McLaurin-Jones Co. 555,740, Mar. 4; Serial No. 557, 371.
Paper, Toilet, paper napkins, wrapping paper and wax paper. The Grocers & Producers Co. 288,117, renewed Oct. 20, 1951. O. G. Mar. 4.
Paper, Writing. American Writing Paper Company. 84,804, Jan. 9, 1912. Republished Mar. 4.
Paper, Writing. American Writing Paper Company. 85,030, Jan. 23, 1912. Republished Mar. 4.
Pens of all kinds, Writing. The Esterbrook Steel Pen Manufacturing Company. 291,912, renewed Feb. 23, 1952. O. G. Mar. 4.
Pens, Writing, gold and fountain pens, and paper clips, etc. The Esterbrook Steel Pen Manufacturing Company. 291,906, renewed Feb. 23, 1952. O. G. Mar. 4.
Printing-paper. West Virginia Pulp & Paper Company. 82,938, re-renewed Aug. 1, 1951. O. G. Mar. 4.
Printing-paper. West Virginia Pulp & Paper Company. 82,940, re-renewed Aug. 1, 1951. O. G. Mar. 4.

CLASS 38

Bulletin or magazine. General Drafting Co., Inc. 289,695, renewed Dec. 1, 1951. O. G. Mar. 4.
Newspapers, Daily. The Chicago Daily News Company. 129,648, Mar. 9, 1920. Amended. O. G. Mar. 4.
Publication, Monthly. Zonta International. 285,920, renewed Aug. 11, 1951. O. G. Mar. 4.

CLASS 39

Boots and shoes. Endicott Johnson Corporation. 289,417, renewed Nov. 24, 1951. O. G. Mar. 4.
Boots, shoes, or slippers. Endicott Johnson Corporation. 288,696, renewed Nov. 3, 1951. O. G. Mar. 4.
Brassières, Delightform Foundations, Inc. 555,768, Mar. 4; Serial No. 607, 660.
Brassières and girdles. Maiden Form Brassiere Co., Inc. 289,828, renewed Dec. 8, 1951. O. G. Mar. 4.
Coats, Men's, women's, and children's. The Duffer Company, Inc. 555,656, Mar. 4; Serial No. 605,204, published Dec. 18, 1951.
Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 290,747, Jan. 12, 1932. Republished Mar. 4.
Coats, vests, trousers, etc. J. Schoeneman, Incorporated. 291,090, Jan. 26, 1932. Republished Mar. 4.
Coats, Women's. S. Stroock & Co. Inc. 555,553, Mar. 4; Serial No. 558,196, published Dec. 11, 1951.
Gloves, Woolen and cotton hunting. M. L. Slimovitz. 555,769, Mar. 4; Serial No. 610,105.
Hand and arm protectors. Industrial Gloves Company. 555,752, Mar. 4; Serial No. 585,284.
Handkerchiefs, Cotton. Tootal Broadhurst Lee Company Limited. 84,886, re-renewed Jan. 9, 1952. O. G. Mar. 4.
Hats, Men's, women's, and children's, and men's and boys' caps. The Mallory Hat Company. 283,116, May 19, 1931. Republished Mar. 4.
Heels for boots and shoes, Rubber. O'Sullivan Rubber Company, Inc. 289,810, renewed Dec. 8, 1951. O. G. Mar. 4.
Hosiery. Etablissements Dupré. 555,616, Mar. 4; Serial No. 596,785, published Nov. 27, 1951.
Hosiery, Van Raalte Company, Inc. 291,775, renewed Feb. 23, 1952. O. G. Mar. 4.
Hosiery, Van Raalte Company, Inc. 292,996, renewed Apr. 5, 1952. O. G. Mar. 4.
Hosiery, Ladies'. Acclaim Hosiery Mills, Inc. 555,694, Mar. 4; Serial No. 611,252, published Dec. 4, 1951.
Hosiery, Lady's and girl's. H. E. Crawford. 555,668, Mar. 4; Serial No. 607,072, published Nov. 27, 1951.
Hosiery, sweaters, and underwear. Troy Wholesale Corporation. 286,192, renewed Aug. 18, 1951. O. G. Mar. 4.
Hosiery, vests, knickers, etc. Towles Limited. 555,619, Mar. 4; Serial No. 597,241, published Nov. 27, 1951.
Hosiery, Women's. Markline Hosiery Company Inc. 555,661, Mar. 4; Serial No. 606,156, published Dec. 4, 1951.
Hunting garments and outer wear, Men's, women's and boys'. Jac-Sher Woolen Co. 555,614, Mar. 4; Serial No. 594,903, published Nov. 27, 1951.
Shirts, dress shirts, jackets, etc., Men's and boys' sport. Trau & Loevner Sportswear Co. 555,759, Mar. 4; Serial No. 594,598.
Shoe soling. Auburn Rubber Corporation. 555,755, Mar. 4; Serial No. 586,905.
Shoes. United Shoe Machinery Corporation. 291,629, renewed Feb. 23, 1952. O. G. Mar. 4
Tee shirts, and knitted sweaters, Women's knitted. Manchester Knitted Fashions, Inc. 428,194, Mar. 11, 1947. Republished Mar. 4.

CLASS 42

Fabrics. Farrington Texol Corporation. 555,683, Mar. 4; Serial No. 609,545, published Dec. 18, 1951.
Fabrics. Harry Goldinger Textile Corporation. 555,581, Mar. 4; Serial No. 577,265, published Dec. 18, 1951.
Fabrics, Knitted and woven. Draper Brothers Company. 555,608, Mar. 4; Serial No. 601,606, published Dec. 18, 1951.
Fabrics, Textile. Burlington Mills Corporation. 555,618, Mar. 4; Serial No. 597,125, published Dec. 18, 1951.
Fabrics, Wool. Draper Brothers Company. 555,639, Mar. 4; Serial No. 601,888, published Dec. 18, 1951.
Fabrics, Woven cotton. The Russell Manufacturing Company. 444,068, July 4, 1950. Republished Mar. 4.
Piece goods, Woolen. A. D. Juilliard & Co., Inc. 555,727, Mar. 4; Serial No. 616,495, published Dec. 18, 1951.
Rugs and carpets. Hudson Valley Rugs Company. 555,674, Mar. 4; Serial No. 608,354, published Dec. 18, 1951.

CLASS 44

Absorbent cotton. Acme Cotton Products Co., Inc. 280,023, Feb. 10, 1931. Republished Mar. 4.
Appliances for the treatment of bone fractures. Zimmer Manufacturing Company. 555,632, Mar. 4; Serial No. 600,560, published Oct. 30, 1951.
Denture acrylic, Self-curing. The Motloid Company. 555,628, Mar. 4; Serial No. 599,838, published Nov. 6, 1951.
Nursing bottle holders. Fashioncraft Products. 555,676, Mar. 4; Serial No. 608,789, published Nov. 6, 1951.

Resinous material used for cementing and restorative work in dentistry. Cosmos Dental Products, Inc. 555,631, Mar. 4; Serial No. 600,121, published Dec. 18, 1951.
Sanitary garments, Elasticized fabric. I. B. Kleinert Rubber Company. 555,623, Mar. 4; Serial No. 598,657, published Nov. 6, 1951.
Sanitary napkins. U. S. Sanitary Specialties Corporation. 555,686, Mar. 4; Serial No. 609,892, published Nov. 6, 1951.
Two-compartment vials adapted to contain separately a therapeutic substance, etc. The Compule Corporation. 555,624, Mar. 4; Serial No. 598,890, published Nov. 6, 1951.

CLASS 45

Club-soda. Cantrell & Cochrane, Ltd. 37,352, re-renewed Nov. 26, 1951. O. G. Mar. 4.

CLASS 46

Bicarbonate of soda and flavoring salts, etc. A. Schilling & Co. 292,974, renewed Apr. 5, 1952. O. G. Mar. 4.
Canned and bottled horse radish, horse radish and beets, etc. H. Treffinger. 292,641, renewed Mar. 22, 1952. O. G. Mar. 4.
Canned citrus juices. Dr. P. Phillips Company. 555,533, Mar. 4; Serial No. 507,020, published Dec. 18, 1951.
Canned fish. Rosenberg & Gallant. 293,281, renewed Apr. 19, 1952. O. G. Mar. 4.
Canned foods for infants and invalids. Gerber Products Company. 555,558, Mar. 4; Serial No. 564,383, published Dec. 11, 1951.
Canned fruit and canned fruit juices. Mitchell Canneries, Inc. 555,542, Mar. 4; Serial No. 536,269, published July 5, 1949.
Canned fruits and canned vegetables. Frederick City Packing Company. 85,653, re-renewed Mar. 5, 1952. O. G. Mar. 4.
Canned peas, canned tuna fish, canned tomatoes. B. Filippone & Co. 291,169, renewed Feb. 2, 1952. O. G. Mar. 4.
Canned salmon. Alaska Pacific Salmon Corporation. 290,892, renewed Jan. 19, 1952. O. G. Mar. 4.
Canned spaghetti. The William Edwards Company. 555,532, Mar. 4; Serial No. 493,178, published Dec. 18, 1951.
Chewing gum. Crawford Gum Company, Inc. 555,672, Mar. 4; Serial No. 608,149, published Dec. 11, 1951.
Chewing gum, Candy coated. American Chewing Products Corp. 259,097, July 23, 1929. Republished Mar. 4.
Coloring for food products. A. Schilling & Co. 293,268, renewed Apr. 19, 1952. O. G. Mar. 4.
Flour, Wheat. Hayden Flour Mills. 555,626, Mar. 4; Serial No. 599,050, published Dec. 11, 1951.
Food dressings. L. Albert. 555,760, Mar. 4; Serial No. 594,739.
Food flavoring extracts, etc. A. Schilling & Co. 293,129, renewed Apr. 12, 1952. O. G. Mar. 4.
Fruits, Fresh citrus. Lemon Cove Association. 555,544, Mar. 4; Serial No. 539,184, published May 22, 1951.
Fruits, Fresh deciduous. Yakima Fruit Growers Association. 555,534, Mar. 4; Serial No. 512,472, published Dec. 18, 1951.
Grapes, Peeled, seedless. Limpert Bros., Inc. 555,677, Mar. 4; Serial No. 608,822, published Dec. 18, 1951.
Honey. J. E. Walker. 555,753, Mar. 4; Serial No. 586,442.
Ice cream. Southwest Utility Dairy Products Company. 288,899, renewed Nov. 10, 1951. O. G. Mar. 4.
Olive oil. Robilio & Cuneo. 291,198, Feb. 2, 1932. Republished Mar. 4.
Pralines. L. H. Wille. 555,739, Mar. 4; Serial No. 556,156.
Salad and cooking oil. A. E. Staley Manufacturing Company. 293,392, renewed Apr. 19, 1952. O. G. Mar. 4.
Sandwiches. M. L. Alexander. 555,766, Mar. 4; Serial No. 604,944.
Spices, Whole. A. Schilling & Co. 293,130, renewed Apr. 12, 1952. O. G. Mar. 4.
Vegetables, Fresh, fresh citrus fruits, fresh deciduous fruits. Simons & French Company, Incorporated. 288,746, Nov. 3, 1931. Republished Mar. 4.

CLASS 50

Dress forms. E. Ronel. 555,679, Mar. 4; Serial No. 609,055, published Nov. 6, 1951.
Leather, Imitation. E. I. du Pont de Nemours Powder Company. 84,611, Dec. 26, 1911. Republished Mar. 4.
Metallic grill used to suspend merchandise, mannikins, signs, etc. Bliss Display Corporation. 555,747, Mar. 4; Serial No. 576,617.

CLASS 51

Bath salts. Darling Products, Inc. 212,811, May 11, 1926. Republished Mar. 4.
Hair coloring pomade. W. H. Joyce. 555,643, Mar. 4; Serial No. 602,405, published Nov. 6, 1951.
Perfumes, toilet water, face powder, etc. Houbigant, Inc. 291,457, renewed Feb. 9, 1952. O. G. Mar. 4.
Perfumes, toilet water, face powder, talcum powder, etc. Houbigant, Inc. 292,278, renewed Mar. 8, 1952. O. G. Mar. 4.
Shaving cream. Colgate-Palmolive-Peet Company. 288,204, renewed Oct. 20, 1951. O. G. Mar. 4.

CLASS 52

Cleaning powder. The Hygienic Products Company. 555,673, Mar. 4; Serial No. 608,247, published Nov. 13, 1951.
Soap. Manhattan Soap Company, Inc. 555,540, Mar. 4; Serial No. 532,146, published Nov. 27, 1951.
Soap and soap mixtures. Magnus Chemical Company, Inc. 175,886, Nov. 13, 1923. Republished Mar. 4.
Soap, Toilet. Thomas Hedley & Company, Limited. 286,017, renewed Aug. 11, 1951. O. G. Mar. 4.
Spotting composition. M. Kennedy. 555,763, Mar. 4; Serial No. 597,963.

CLASS 100

Rental of formal clothes. I. Snider Clothing Corp. 555,775, Mar. 4; Serial No. 602,475.

CLASS 102

Insurance brokerage. Hickey-Mitchell Company. 555,735, Mar. 4; Serial No. 564,388, published Dec. 18, 1951.
Real estate brokerage and fire insurance brokerage. W. H. Lyon. 555,736, Mar. 4; Serial No. 574,522, published Dec. 18, 1951.

CLASS 105

Moving and transporting furniture, household goods, pianos, etc., by moving van. A. B. Carroll. 555,773, Mar. 4; Serial No. 565,848.

CLASS 106

Bookbinding. Publishers Book Bindery, Inc. 555,774, Mar. 4; Serial No. 584,924.

CLASS 107

Instructing mechanics and repairmen. Perfect Circle Corporation. 555,734, Mar. 4; Serial No. 537,821, published Oct. 16, 1951.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bethlehem Steel Company, assignee: *See*—
Zollinger, Walter H.

Coleman Motors Corporation, assignee: *See*—
Holmes, Harleigh, R.

Holmes, Harleigh R., assignor to Coleman Motors Corporation, Littleton, Colo. Wheel construction for front wheel drives. Re. 23,465, Mar. 4.

McElhinney, Eric M., Dysart, and T. A. Podhajsky, Traer, Iowa. Load machine. Re. 23,466, Mar. 4

Pennsylvania Crusher Company, assignee: *See*—
Wilson, John G.

Podhajsky, Theodore A.: *See*—
McElhinney, Eric M., and Podhajsky.

Sargent, Earl O., Oxnard, Calif. Preparing dried molasses. Re. 23,467, Mar. 4.

Wilson, John G., Malvern, assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Reversible hammer mill with material deflecting feed structure. Re. 23,468, Mar. 4.

Zollinger, Walter H., Bethlehem, Pa., assignor to Bethlehem Steel Company. Automatic water strainer. Re. 23,469, Mar. 4.

LIST OF DESIGN PATENTEES

Aron, Morris, South Norwalk, Conn. Necktie display support or similar article. 166,060, Mar. 4.

Bagwell, Landrum E., Brevard, N. C. Combination bathroom unit. 166,061, Mar. 4.

Berrie, Murray L., New York, N. Y. Package for jewelry findings and the like. 166,062, Mar. 4.

Bishop, Stanley E., Cambridge, and N. J. Lissak, New Bedford, Mass. Shoe. 166,063, Mar. 4.

Blecher, Boris, Philadelphia, Pa. Pocketknife. 166,064, Mar. 4.

Bliss, Charles O., Los Angeles, Calif. Salad plate. 166,065, Mar. 4.

Boschin, Walter E., assignor to Glass Containers, Inc., San Francisco, Calif. Bottle or similar article. 166,066, Mar. 4.

Bourne, Douglas, Dubois, Pa., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 166,067, Mar. 4.

Brand, Hyman, and I. Kurtz, Brooklyn, N. Y. Head covering. 166,068, Mar. 4.

Bruce, Leo I., Framingham Center, Mass., assignor to General Electric Company. Clockcase. 166,069, Mar. 4.

Budlong, Robert D., Skokie, Ill. Record player. 166,070, Mar. 4.

Butzko, Robert L., Bridegport, Conn. Toy railroad station. 166,071, Mar. 4.

Columbus Plastic Products, Inc.: *See*—
Roop, Nathan W.

Confection Cabinet Corporation, assignee: *See*—
Margulies, Walter P., Covey, and Tiffany.

Covey, Laird F.: *See*—
Margulies, Walter P., Covey, and Tiffany.

Derby Sealers, Incorporated, assignee: *See*—
Krueger, Alfred P.

Drexler, Murray, New York, N. Y. Ash receiving receptacle. 166,072, Mar. 4.

Dunkelberger, Milton S., Dayton, Ohio. Flashlight. 166,073, Mar. 4.

Eversharp, Inc., assignee: *See*—
Glaberson, Martin.

Fisher, Max, Lower Alsace Township, Berks County, and F. L. Ireland, West Reading, assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa. Stocking. 166,074, Mar. 4.

Fuller Brush Company, The, assignee: *See*—
Le Febvre, Alfred L.

General Electric Company, assignee: *See*—
Bruce, Leo I.

Glaberson, Martin, Ardsley, N. Y., assignor to Eversharp, Inc., Chicago, Ill. Combination desk unit. 166,075, Mar. 4.

Glaberson, Martin, Ardsley, N. Y., assignor to Eversharp, Inc., Chicago, Ill. Combination desk unit. 166,076, Mar. 4.

Glass Containers, Inc., assignee: *See*—
Boschin, Walter E.

Haas, Kenneth C., Eggertsville, N. Y. Artificial fireplace. 166,077, Mar. 4.

Hamilton, Bertis F., Columbus, Ind. Step stool. 166,078, Mar. 4.

Heffern, William L., St. Petersburg, Fla. Leveling instrument. 166,079, Mar. 4.

Heinze, Walter O., Swarthmore, Pa., assignor to International Latex Corporation. Seat cushion display unit. 166,080, Mar. 4.

Hermal Shoe Company, Inc., assignee: *See*—
Maling, Roy.

Holophane Company, Inc., assignee: *See*—
McPhail, Robert G.

International Latex Corporation, assignee: *See*—
Heinze, Walter O.

Ireland, Frederick L.: *See*—
Fisher, Max, and Ireland.

Jacoby-Bender, Inc., assignee: *See*—
Rodriguez, Emil.

Johnson, Inez M., Nedrow, N. Y. Television cabinet. 166,081, Mar. 4.

Knutson, Oliver J., Colorado Springs, Colo. Soil moisture indicator. 166,082, Mar. 4.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape-dispensing machine. 166,083, Mar. 4.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape-dispensing machine. 166,084, Mar. 4.

Kurtz, Irving: *See*—
Brand, Hyman, and Kurtz.

Lachman, Charles, Bryn Mawr, Pa. Carpet underliner. 166,085, Mar. 4.

Le Febvre, Alfred L., Windsor, assignor to The Fuller Brush Company, Hartford, Conn. Shampoo brush. 166,086, Mar. 4.

Leser, Tina, New York, N. Y. Dress. 166,087, Mar. 4.

Lindsay, Myrtle E., Los Angeles, Calif. Toothbrush holder. 166,088, Mar. 4.

Lissak, Nathan J.: *See*—
Bishop, Stanley E., and Lissak.

Luketa, Frank J., Seattle, Wash. Adjustable reading stand. 166,089, Mar. 4.

Maling, Roy, Chestnut Hill, assignor to Hermal Shoe Company, Inc., Everett, Mass. Shoe or similar article. 166,090, Mar. 4.

Margulies, Walter P., Scarsdale, N. Y., L. F. Covey, Darien, Conn., and K. H. Tiffany, West Orange, assignors to Confection Cabinet Corporation, Newark, N. J. Beverage dispenser. 166,091, Mar. 4.

McDonald, Jesse D., Enid, Okla. Sport shirt. 166,092, Mar. 4.

McPhail, Robert G., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Direct lighting fixture. 166,093, Mar. 4.

Mecus, Edward E., Milwaukee, Wis. Planter. 166,094, Mar. 4.

Melker, Joseph E., New York, N. Y. Stocking. 166,095, Mar. 4.

Milner, William S., Chicago, Ill. Food and drink bar unit or similar article. 166,096, Mar. 4.

Myers, Minnie, Kingsville, Tex. Dress ornament. 166,097, Mar. 4.

National Plastic Corp., assignee: *See*—
Rubin, Noah.

Onondaga Pottery Company, assignee: *See*—
Bourne, Douglas.

Penn Maid Hosiery Mills, Inc., assignee: *See*—
Fisher, Max, and Ireland.

Punzak, Joseph F., assignor to United Metal Goods Manufacturing Co., Inc., Brooklyn, N. Y. Clockcase or similar article. 166,098, Mar. 4.

Quaker Lace Company, assignee: *See*—
Wolf, William.

Rodriguez, Emil, assignor to Jacoby-Bender, Inc., New York, N. Y. Expansible link chain for a bracelet or the like. 166,099, Mar. 4.

Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Pair of food tongs or similar article. 166,100, Mar. 4.
Rosen, Fillmore C., Elkins Park, Pa. Stocking. 166,101, Mar. 4.
Rubin, Noah, assignor to National Plastic Corp., New York, N. Y. China stand. 166,102, Mar. 4.
Savage, Robert E., Winnetka, Ill. Chocolate tempering mill unit. 166,103, Mar. 4.
Schletter, Richard E., Cheltenham Township, Montgomery County, Pa. Lady's stocking. 166,104, Mar. 4.
Schmitt, Walter H.: *See*—
Schmitt, Walter W. and W. H.
Schmitt, Walter W. and W. H., Grosse Pointe, Mich. Transportable fire fighting unit. 166,105, Mar. 4.
Simon, Henriette, Croton on Hudson, N. Y. Tubular stripping shoe or the like. 166,106, Mar. 4.
Tiffany, Kenneth H.: *See*—
Margulies, Walter P., Covey, and Tiffany.
Towle, Elmer J., San Francisco, Calif. Rosary bracelet. 166,107, Mar. 4.
United Metal Goods Manufacturing Co., Inc., assignee: *See*—
Punzak, Joseph F.
Vance, Florence H., Oak Park, Ill. Window curtain. 166,108, Mar. 4.
Wadsworth, William F., North Merrick, N. Y. Wall desk. 166,109, Mar. 4.
Wolf, William, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 166,110, Mar. 4.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aasland, Byron T., and J. V. Webster, Kankakee, assignors to Sears, Roebuck and Co., Chicago, Ill. Lime spreader. 2,587,678, Mar. 4.
Abel, Pietro, (Abeles), assignee: *See*—
Nadai, Alessandro.
Abel, Rodolfo, (Abeles), assignee: *See*—
Nadai, Alessandro.
Abrams, Victor R., assignor to Geo. D. Roper Corporation, Rockford, Ill. Gas burner and flame deflector. 2,587,802, Mar. 4.
Acuazzo, Vito J., Philadelphia, Pa. Latch. 2,587,582, Mar. 4.
Adams, Frank, Milwaukee, Wis., assignor to Bendix Aviation Corporation, South Bend, Ind. Hydraulic pressure power device. 2,587,803, Mar. 4.
Aden, Clarence E., Adams, Nebr. Toggle-actuated pivoted jaw wrench. 2,587,673, Mar. 4.
Aggen, Alvin F., Camarillo, Calif. Apparatus for thinning plants and killing extraneous vegetation. 2,587,950, Mar. 4.
Agins, George: *See*—
Davis, Arthur P., and Agins.
Agnifilo, Vincent: *See*—
Robinson, Jerome A., and Agnifilo.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Busby, Hibbard S., and Ward.
Couch, James F., and Krewson.
Jeanes, Allene R., and Wilham.
Rist, Carl E., Davis, and Wolff.
Aiken, Charles B., Wilton, Conn., assignor to the United States of America as represented by the Secretary of the Air Force. Bolometer. 2,587,674, Mar. 4.
Air Force, United States of America as represented by the Secretary of the, assignee: *See*—
Aiken, Charles B.
Air-Maze Corporation, assignee: *See*—
Hanneman, Robert G.
Air Reduction Company, Incorporated, assignee: *See*—
Taylor, Alfred H., Jr.
Airey, Charles A., Alliance, Ohio. Automatic fishing apparatus. 2,587,675 Mar. 4.
Ajax Engineering Corporation, assignee: *See*—
Horswell, Alfred H., and A. H. Horswell, Jr.
Ajne, Carl A., Stockholm, Sweden. Building structure. 2,587,804, Mar. 4.
Akerman, John D., and V. G. Townsend, Minneapolis, Minn.: said Townsend assignor to said Akerman. Artificial respiration apparatus. 2,588,192, Mar. 4.
Akers, Dallas C., East Orange, N. J. Connector clamp for coaxial electrical cables. 2,587,676, Mar. 4.
Akobjanoff, Lev, Ann Arbor, Mich. Arsenic modified polysulfide plastics. 2,587,805, Mar. 4.
Aktiebolaget Ekonomiregister, assignee: *See*—
Magnusson, Elis M.
Aktiebolaget Elektrolux, assignee: *See*—
Kögel, Wilhelm G.
Albrecht, George F., Saco, Maine. Spinning and twisting ring. 2,588,193, Mar. 4.
Alfreds, Torris H.: *See*—
Nelson, Arthur W., and Alfreds.
Alikonis, Justin J., assignor to Paul F. Beich Company, Bloomington, Ill. Stabilized plastic type confection and making the same. 2,587,806, Mar. 4.
Allbright-Nell Company, The, assignee: *See*—
Lundell, Alvin O.
Allen, Adda M., The Plains, Va., assignor to Disposable Bottle Corporation, Washington, D. C. Nursing upit. 2,588,069, Mar. 4.
Allen, Edwin L., and A. R. De Vito, Cleveland Heights, Ohio, and H. B. Muster, Fountain City, Ind., assignors, by mesne assignments, to R. I. Schonitzer, Cleveland, Ohio. Lock means for door control mechanism. 2,587,583, Mar. 4.
Allied Chemical & Dye Corporation, assignee: *See*—
Twelt, Olav M.
Allied Electric Products, Inc., assignee: *See*—
Weisberg, Sidney M.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Dobeus, Vander M.
Murphy, Bernard J.
Roubal, Alexander J.
Schick, Frederick A.
Sillers, Thomas G. A.
Wilson, William F.
Allis Rubber Corporation, assignee: *See*—
Ekkebus, Eloy D., Gallagher, and Zapfel.
Allmänna Svenska Elektriska Aktiebolaget, assignee: *See*—
Öfverholm, Håkan, and Forssell.
Althoff, Raymond, Somerville, N. J. Machine for packing bottles with relatively small objects. 2,587,584, Mar. 4.
Aluminum Company of America, assignee: *See*—
Russell, George F., Jr.
American Can Company, assignee: *See*—
Kuehne, Herbert A.
Socke, John E.
American Cyanamid Company, assignee: *See*—
Erickson, John O., Stamm, and Libby.
American Forging and Socket Company, assignee: *See*—
McCarthy, Charles S.
American Gas Accumulator Company, assignee: *See*—
Oestnaes, Victor L.
American Optical Company, assignee: *See*—
Marsters, Alton K.
American Security and Trust Company, executor: *See*—
Custis, James B. G., and Post.
American Telephone and Telegraph Company, assignee: *See*—
Shepherd, Judson O.
American Tobacco Company, The, assignee: *See*—
Schoenbaum, Alexander W., and Ashworth.
Amm I-Dent, Inc., assignee: *See*—
Lewis, John B., and Kenner.
Ammlung, Louis C., Jr., assignor to Philco Corporation, Philadelphia, Pa. Phonograph tone arm supporting and adjusting arrangement. 2,587,677, Mar. 4.
Anderson, Raymond T., Lakewood, assignor to The V. D. Anderson Company, Cleveland, Ohio. Solvent extraction combination. 2,588,070, Mar. 4.
Anderson, V. D., Company, The, assignee: *See*—
Anderson, Raymond T.
Anderson, William C., Oak Park, assignor to Illinois Tool Works, Chicago, Ill. Screw slotter. 2,587,951, Mar. 4.
Ansul Chemical Company, assignee: *See*—
Custer, Harry W.
Appleby, Amedee D., Odessa, Tex. Grinding machine. 2,587,952, Mar. 4.
Arenberg, Albert L., Highland Park, and E. C. Zimmerman, Winnetka, assignors to Patent License Corporation, Chicago, Ill. Car lighting structure. 2,587,807, Mar. 4.
Arkansas Company, Inc., assignee: *See*—
Cook, Alton A., and Sapers.
Arma Corporation, assignee: *See*—
Davis, Arthur P., and Agins.
Armour Research Foundation of Illinois Institute of Technology, assignee: *See*—
Camras, Marvin.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Bottle carrier. 2,587,808, Mar. 4.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Bottle loader. 2,587,953, Mar. 4.
Arnett, Millard F., Fairmont, W. Va. Coin dispenser. 2,587,809, Mar. 4.
Arton, John A., Chicago, Ill. Convertible furniture. 2,588,071, Mar. 4.
Arundale, Erving, Westfield, and J. P. Thorn, Cranford, N. J., assignors to Standard Oil Development Company. Synthetic lubricant. 2,588,194, Mar. 4.
Ashworth, John T.: *See*—
Schoenbaum, Alexander W., and Ashworth.
Atanasoff, John V.: *See*—
Brown, John, Snavely, and Atanasoff.
Snavely, Benjamin L., and Atanasoff.
Atkinson, Dale S., Winnipeg, Manitoba, Canada. Adjustable seat for automobiles. 2,587,679, Mar. 4.
Austin Motor Company Limited, The, assignee: *See*—
Stanfield, James R., and Hughes.
Autoyre Company, Incorporated, The, assignee: *See*—
Simpson, Paul F.
Ayres, Donald F., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Milking machine. 2,587,680, Mar. 4.
Ayres, Waldemar A., Kew Gardens Hills, N. Y., assignor to The Sperry Corporation. Apparatus for producing stereoscopic pictures. 2,587,585, Mar. 4.
B & R Manufacturing Company, The, assignee: *See*—
Bevington, Julius J.
Babayan, Vigen K., West Englewood, N. J. Refuse palm oil refining. 2,587,954, Mar. 4.
Babcock & Wilcox Company, The, assignee: *See*—
Cowan, Harry.

Bachli, Herman and H. S. Shapiro, assignors to Chicago Specialty Mfg Co. Inc., Chicago, Ill. Flush tank valve operating mechanism. 2,588,072, Mar. 4.

Bahuaud, Adrien A., Paris, France. Quick tightening machine-tool vise. 2,588,073, Mar. 4.

Bair, Lloyd L., Flint, Mich. Sink mounting. 2,588,074, Mar. 4.

Baldwin, Harold L., St. Johnsbury, Vt. Log handling apparatus. 2,587,681, Mar. 4.

Ballou, Richard P., Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J. Circuit interrupter with arc-extinguishing means. 2,588,195, Mar. 4.

Baranecky, Walter: *See*—
Cleland, Fred B., Baranecky, Kolk, and Wetzel.

Barbieri, Luigi, Parma, Italy. Press for macaroni. 2,588,196, Mar. 4.

Bard, Calvin, assignor to Kwizz Kard Company, Tulsa, Okla. Card sorter. 2,587,682, Mar. 4.

Barnum, Emmett R., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Corrosion preventive composition. 2,587,955, Mar. 4.

Barr, Frank T., Summit, B. E. Roethell, Cranford, and W. G. Scharmann, Westfield, N. J., assignors to Standard Oil Development Company. Gasifying carbonaceous fuels. 2,588,075, Mar. 4.

Barry, Robert E., Bethesda, Md. Disposable caulking gun. 2,587,683, Mar. 4.

Bartleson, John D.: *See*—
Hughes, Everett C., and Bartleson.

Basalt Rock Company, Inc., assignee: *See*—
McCall, Donald O.

Bastien, Roy C., St. Albans, assignor to Fish-Schurman Corporation, New York, N. Y. Light projecting apparatus. 2,587,956, Mar. 4.

Batlin, L., & Son, Inc., assignee: *See*—
Gessmann, Edmund G.

Battelle Development Corporation, assignee: *See*—
Jaffee, Robert I.

Bauer, Benjamin B., Oak Park, assignor to Shure Brothers, Incorporated, Chicago, Ill. Directional microphone. 2,587,684, Mar. 4.

Bauer, Oscar W., and J. W. Teter, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Insect repellents containing a chlorobutyroamide. 2,587,957, Mar. 4.

Beadle, Ray W., Denver, Colo. Door fastener. 2,588,077, Mar. 4.

Beaunit Mills, Inc., assignee: *See*—
Hofmann, Hugo.

Belch, Paul F., Company, assignee: *See*—
Alikonis, Justin J.

Bell, Persa R., Jr.: *See*—
Straus, Henry A., Bell, and Murray.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Busch, Aloysius J., and Michael.
Fox, Arthur G.
Houghton, Edward W.
Kock, Winston E.
Lovell, Clarence A., and Parkinson.
Ziegler, Arthur W.

Bellezza, Russell G., and G. M. Ruoff, Baltimore, Md., assignors to General Electric Company. Suspension insulator for high-tension conductors. 2,587,587, Mar. 4.

Belloni, Angelo, Venice, assignor to Pirelli Societa Per Azioni, Milan, Italy. Hood for divers' suits. 2,587,958, Mar. 4.

Bendix Aviation Corporation, assignee: *See*—
Adams, Frank.
Holmes, Bradford B.
Price, Earl R.
Wood, Louvan E.

Benignus, Paul G., Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo. Water emulsifiable soil-poison concentrate. 2,588,318, Mar. 4.

Bennett, James A.: *See*—
Elliott, Raymond G., and Bennett.

Bentley, Clarence H.: *See*—
Bletcher, Ralph E., Bentley, and Ward.

Benzer, Seymour: *See*—
Lark-Horovitz, Karl, Benzer, and Davis.

Bergfors, Carl A.: *See*—
Dickinson, Arthur H., Phelps, and Bergfors.

Bergstein, Robert M., Cincinnati, Ohio. Manufacture of articulated panels. 2,587,685, Mar. 4.

Bernardi, Alfredo N., Highland Park, Ill. Lawn trimmer and shrubbery pruner. 2,587,586, Mar. 4.

Bernstein, Herbert I., and C. F. Fuchs, assignors to The Emulsol Corporation, Chicago, Ill. Preparation of shampoos. 2,588,197, Mar. 4.

Berry, David A., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Preparing a drying oil by dehydrochlorination. 2,587,588, Mar. 4.

Berry, Robert R., San Francisco, Calif. Ore sorting system. 2,587,686, Mar. 4.

Beutel, George A.: *See*—
Rittner, Edmund S., Grace, Fine, and Beutel.

Bevington, Julius J., assignor to The B & R Manufacturing Company, Toledo, Ohio. Litter control for vacuum cleaners. 2,588,198, Mar. 4.

Beyer, Walter O., Pittsburgh, Pa. Spring grip pipe coupling. 2,587,810, Mar. 4.

Beyers, Fred C., Tonasket, Wash. Toy gun. 2,587,687, Mar. 4.

Bieber, Abraham, assignor to Express Patent Company (Liverpool) Limited, Liverpool, England. Mechanical cloth-laying apparatus. 2,587,811, Mar. 4.

Bilý, Theodor, Zandov u Ceske Lipy, assignor to North Bohemian Machine Works and Foundries, National Corporation, Prague, Czechoslovakia. Stencil frame for screen printing. 2,588,199, Mar. 4.

Biner, George M., assignor to Biner-Siegrist Machinery Manufacturing Co., Los Angeles, Calif. Nonjamming conveyer means. 2,587,959, Mar. 4.

Biner-Siegrist Machinery Manufacturing Co., assignee: *See*—
Biner, George M.

Bingham-Herbrand Company, The, assignee: *See*—
Hinsey, Robert S.

Birkigt, Louis, Versoix, pres Geneva, assignor to "Hispano-Suiza" (Suisse) S. A., Geneva, Switzerland. Spinning spindle mechanisms, in particular to those driven by means of a worm and worm wheel. 2,587,812, Mar. 4.

Black, James J., Cincinnati, Ohio, assignor, by mesne assignments, to Trailmobile Inc. Four wheel trailer vehicle. 2,588,078, Mar. 4.

Bletcher, Ralph E., C. H. Bentley, and I. A. Ward, assignors to Modern Faucet Mfg. Co., Los Angeles, Calif. Transfer valve. 2,587,960, Mar. 4.

Bletcher, Ralph E., C. H. Bentley, and I. A. Ward, assignors to Modern Faucet Mfg. Co., Los Angeles, Calif. Transfer valve. 2,587,961, Mar. 4.

Bley, Rudolph S., Milligan College, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Spinning filaments and spinneret for use therewith. 2,588,200, Mar. 4.

Bloch, Herman S.: *See*—
Thompson, Ralph B., and Bloch.

Blumenthal, Sidney & Company, Inc., assignee: *See*—
Korolyshun, Russell T., and Sullivan.

Boehm, Jaul F., Greenwich, Conn. T-square. 2,588,079, Mar. 4.

Bogdanowski, John W.: *See*—
Williams, Ernest, and Bogdanowski.

Bolz, August: *See*—
Resek, Marc, Dahlstrom, and Bolz.

Bombardier, Joseph A., Valcourt, Quebec, Canada. Tractor unit. 2,587,813, Mar. 4.

Boodakian, Barkere, New York, N. Y. Mounting means for bolt-actuated switches. 2,588,080, Mar. 4.

Borberg, Willy, Astoria, N. Y., assignor to International Projector Corporation, Bloomfield, N. J. Viewing telescope for image projectors. 2,588,201, Mar. 4.

Bordewieck, Robert W., Natick, assignor, by mesne assignments, to Moore Electronic Laboratories, Inc., Worcester, Mass. Sealed lens phototube. 2,587,589, Mar. 4.

Borkland, Gustave W., Marion, Ind., assignor to Owens-Corning Fiberglas Corporation. Method and apparatus for making a fibrous preform. 2,587,814, Mar. 4.

Bosch, Robert, G. m. b. H., assignee: *See*—
Hurst, Max.

Bosk, John P., Los Angeles, Calif. Collapsible child's carrier and seat. 2,587,688, Mar. 4.

Boston Woven Hose and Rubber Company, assignee: *See*—
Know'and, Thomas M., and Marcy.

Bousman, Henry W., Scotia, N. Y., assignor to General Electric Company. Voltage regulation for electrostatic generators. 2,588,081, Mar. 4.

Bower, Andrew W.: *See*—
Schroeder, John A., Bower, and Graber.

Bowie, William W., assignee: *See*—
McQueen, Peter T.

Box, E. O., Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company. Separation of acetylene from gaseous hydrocarbon mixtures. 2,587,689, Mar. 4.

Branson, Charles D., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn. Constant flow valve mechanism. 2,587,815, Mar. 4.

Brazukas, Joseph A., Gary, Ind. Flexible joint. 2,587,962, Mar. 4.

Breda, Inc., assignee: *See*—
Koster, Curtis M.

Breene, George A.: *See*—
Garratt, Louis D., and Breene.

Breit, Robert J., San Antonio, Tex., and H. C. Schroeder, Parma, assignors to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Control valve. 2,588,202, Mar. 4.

Brereton, Christopher F., assignor to Vickers-Armstrongs Limited, London, England. Holst for conveying loads to moving platforms. 2,587,690, Mar. 4.

Brewer, Alexander F., Lynbrook, N. Y., assignor to The Sperry Corporation. Ultrahigh-frequency apparatus. 2,587,590, Mar. 4.

Brewer, Wilbur A., Los Angeles, Calif. Drawer construction. 2,587,691, Mar. 4.

Brinton, Esme T. C.: *See*—
Lemon, Cecil G., and Brinton.

Bristow, Paul W., assignor to Scott & Williams, Incorporated, Laconia, N. H. Auxiliary speed control mechanism for knitting machines. 2,587,816, Mar. 4.

Brooklyn Hospital Equipment Co. Inc., assignee: *See*—
Spielberg, Sam S.

Brown, Horace W., West Newbury, Mass. Powder measuring device with micrometer adjustment. 2,587,692, Mar. 4.

Brown, John, Berwyn, B. L. Snavely, Takoma Park, and J. V. Atanasoff, Fulton, Md. Electronic circuit chassis. 2,588,082, Mar. 4.

Brownie, Rex S., assignor to International Hardware Manufacturing Company, Detroit, Mich. Lever adjuster for casement windows. 2,587,963, Mar. 4.

Bucyrus-Erie Company, assignee: *See*—
Meier, Johann H.

Burkhard, Charles A., Alplaus, and D. T. Hurd, Schenectady, N. Y., assignors to General Electric Company. Organosilicon aldehydes and preparing the same. 2,588,083, Mar. 4.

Burks, George E., Peoria, and R. R. Robinson, Morton, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif. Filter. 2,587,693, Mar. 4.

Burns, Paul P., Philadelphia, Pa. Haircutting and trimming device. 2,587,964, Mar. 4.

Burroughs Adding Machine Company, assignee: *See*—
Wockenfuss, William.

Busby, Hibbard S., and W. L. Ward, New Orleans, La., assignors to United States of America as represented by the Secretary of Agriculture. Cotton filled structural material and preparing the same. 2,587,591, Mar. 4.

Busch, Aloysius J., Madison, N. J., and H. J. Michael, Mineola, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,587,817, Mar. 4.

Bushfield, Keith, San Francisco, Calif. Combined trailer and pontoon boat. 2,588,084, Mar. 4.

Butcosk, Richard A.: *See*—
Ogden, Albert B., Butcosk, and Williams.

Butler, Keith H., Marblehead, assignor to Sylvania Electric Products Inc., Salem, Mass. Barium mesotrisilicate phosphor. 2,587,592, Mar. 4.

Caldwell, Stanley B., Caldy, and E. Hurley, Greasby, Wirral, England. Leaf hinge. 2,587,818, Mar. 4.

California Research Corporation, assignee: *See*—
Toland, William G., Jr.

Camerino, Ernest, New York, N. Y. Universal coupling. 2,587,819, Mar. 4.

Cameron, Iverson I., and B. C. Spransy, Alexandria, Va. Journal box and hydraulic safety valve therefor. 2,588,204, Mar. 4.

Cameron, Warren B. S., Hillsgrove, assignor to Kenney Manufacturing Company, Cranston, R. I. Curtain hanger-pleater. 2,588,203, Mar. 4.

Campbell, James M., Greenfield, Mass. Insecticide sprayer. 2,587,965, Mar. 4.

Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Apparatus for supplying mechanical recording bias to magnetic recorders. 2,587,593, Mar. 4.

Canadian Safety Fuse Company Limited, assignee: *See*—
Chalmers, John B., and McCaffrey.

Carlson, Carl S.: *See*—
Morrell, Charles E., Carlson, and Smith.

Carmien, Joseph A.: *See*—
Jahn, Fred S., Carmien, and Mullings.

Carrier Corporation, assignee: *See*—
Hanson, Lars.
Jones, Walter F.

Cartier, Effie M., executrix: *See*—
Cartier, Lionel R.

Cartier, Lionel R., deceased; E. M. Cartier and N. J. Gundlach, executors, assignors to Independent Engineering Company, Inc., O'Fallon, Ill. Vapor oxygen recondenser. 2,587,820, Mar. 4.

Cascades Plywood Corporation, assignee: *See*—
Uschmann, Curt.

Castelli, Xavier F., assignor to Society called Societe Cridan, Paris, France. Control mechanism for screw machines. 2,588,205, Mar. 4.

Caterpillar Tractor Co., assignee: *See*—
Burks, George E., and Robinson.

Catterall, William F.: *See*—
Mercer, Kenneth K., and Catterall.

Cayton, Kenneth M.: *See*—
Thompson, Robert C., and Cayton.

Celanese Corporation of America, assignee: *See*—
Roughsedge Robert H., and Lustig.

Celanese Corporation of America, assignee: *See*—
Stearn, William T.

Chalmers, John B., and F. H. G. McCaffrey, Brownsburg, assignors to Canadian Safety Fuse Company Limited, Montreal, Quebec, Canada. Fuse igniting and connecting device. 2,587,694, Mar. 4.

Chavannes Industrial Synthetics, Inc., assignee: *See*—
Chavannes, Marc A., and Magoon.

Chavannes, Marc A., Lisbon, and L. E. Magoon, Pachaug, Conn., assignors to Chavannes Industrial Synthetics Inc., New York, N. Y. Making decorative sheet-like articles. 2,587,594, Mar. 4.

Chemical Construction Corporation, assignee: *See*—
McGauley, Patrick J.

Cheney, Harry A., Berkeley, and J. H. Raley, Walnut Creek, assignors to Shell Development Company, San Francisco, Calif. Separation of hydrogen halides from olefinically unsaturated compounds. 2,587,595, Mar. 4.

Chicago Metallic Manufacturing Company, assignee: *See*—
Fredrickson, Robert I.

Chicago Pneumatic Tool Company, assignee: *See*—
Roberts, James A., Fischer, and D'Haem.

Chicago Railway Equipment Company, assignee: *See*—
Spaeth, Irvin J.

Chicago Specialty Mfg. Co. Inc., assignee: *See*—
Bachli, Herman and Shapiro.

Chiksan Company, assignee: *See*—
Warren, Doyle C.

Chouinard, Alfred F., and M. A. Tylutki, assignors to National Cylinder Gas Company, Chicago, Ill. Valved construction for torch handles and making the same. 2,587,821, Mar. 4.

Cincinnati Milling Machine Co., The, assignee: *See*—
Raehrs, Emery C.

Cinecolor Corporation, assignee: *See*—
Gundelfinger, Alan M.

Cinema-Television Limited, assignee: *See*—
Freeman, George S. P.

Citso, Steven J., Chicago, Ill. Window lock. 2,587,695, Mar. 4.

Clark, Virgil R., Decatur, Ga. Dispenser having an inlet and an outlet valve for measuring the quantities dispensed. 2,588,206, Mar. 4.

Clarke, Ward W.: *See*—
Kinney, Selwyne P., Garrigan, and Clarke.

Cleary, Joseph J., Lexington, Mass. Ear clamp. 2,587,966, Mar. 4.

Cleland, Fred B., W. Baranecky, C. R. Kolk and P. E. Wetzel, assignors to The General Tire and Rubber Company, Akron, Ohio. Method and apparatus for making tire ply bands. 2,588,207, Mar. 4.

Cleland, James E., Granite City, Ill., assignor to Union Starch & Refining Company, Columbus, Ind. Hydrolysis process. 2,587 596, Mar. 4.

Clouse, Augustus C., assignor to Fretz-Moon Tube Company, Inc., Butler, Pa. Permanent magnet roll. 2,588,085, Mar. 4.

Coad, Mrs. Frederic J., administratrix: *See*—
Coad, Frederic J.

Coad, Frederic J., deceased; by Mrs. F. J. Coad, administratrix, Des Moines, Iowa, the same person as G. Coad, assignor, by mesne assignments, to Swift & Company, Chicago, Ill. Skinning method. 2,587,967, Mar. 4.

Coad, Gwendolyn, administratrix: *See*—
Coad, Frederic J.

Cole, Maurice S., Corsicana, Tex. Speaker and heater unit for drive-in theaters. 2,588,086, Mar. 4.

Collier, Thomas W., Brunswick, Ga. Venetian blind. 2,587,696, Mar. 4.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Frangquist, Gustav H.

Connecticut Asbestos Products, Inc., assignee: *See*—
Wirth, Hans.

Connellan, Martin F., Pasadena, Calif. Rest or support for cigarettes and cigars. 2,588,208, Mar. 4.

Connor, Roger, and H. E. Hooe, assignors to The McBee Company, Athens, Ohio. Method and apparatus for mounting film on cards. 2,588,087, Mar. 4.

Conrad, Matthew, Philadelphia, Pa., assignor to Stromberg-Carlson Company. Apparatus for testing amplifiers. 2,587,697, Mar. 4.

Consolidated Edison Company of New York, Inc., assignee: *See*—
Williams, Ernest, and Bogdanowski.

Consolidated Engineering Corporation, assignee: *See*—
Pallette, Gordon W.

Continental Machines, Incorporated, assignee: *See*—
Gaerlich, Raymond.

Cook, Alton A., Glen Ridge, and I. Sapers, assignors to Arkansas Company, Inc., Newark, N. J. Removal of pigments from printed textiles and agents useful therein. 2,587,597, Mar. 4.

Coons, Curtis C., North Canton, and O. B. Sutton, Canton, assignors to The Hoover Company, North Canton, Ohio. Electric toaster. 2,587,968, Mar. 4.

Cordis, Nat, Silver Lake, Wis. Apparatus for mixing manure and dry fertilizers. 2,587,598, Mar. 4.

Corn, Belmont, Jr., Scarsdale, N. Y., and C. D. Roscher, Bogota, N. J., assignors to The Displayers, Inc. Portable display. 2,587,698, Mar. 4.

Corner, Eugene S.: *See*—
Lynch, Charles S., and Corner.

Cornett, Walter V., Los Angeles, Calif. Motor-driven cutting and breaking machine. 2,587,969, Mar. 4.

Corning, Walter D., Knoxville, Tenn. Resiliently mounted chair back. 2,587,822, Mar. 4.

Corson, Ben B., and G. A. Webb, assignors to Koppers Company, Inc., Pittsburgh, Pa. Catalytic metal-alkaline earth carbonate pellet and its production. 2,587,599, Mar. 4.

Cotter, William J., Washington, D. C. Parachute attachment for model gliders. 2,587,699, Mar. 4.

Couch, James F., Glenside, and C. F. Krewson, Erdenheim, Philadelphia, Pa., assignors to United States of America as represented by the Secretary of Agriculture. Purification of rutin. 2,587,600, Mar. 4.

Couper, Monroe: *See*—
Perkins, Melvin A., and Couper.

Courtaulds Limited, assignee: *See*—
Sharman, Eric P., and Wilson.

Courtis, Arthur W., and K. G. D. Hallett, Brixton, London, England. Apparatus for placing a pickup on a record at a preselected position. 2,587,970, Mar. 4.

Cover, Ralph, Westminster, Md. Washing and screening machine. 2,588,088, Mar. 4.

Cowan, Harry, Akron, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Fuel burner. 2,587,700, Mar. 4.

Cowles Chemical Company, assignee: *See*—
MacMullen, Clinton W.

Crampton Manufacturing Company, assignee: *See*—
Krucki, Charles S.

Crandell, Frank F., Pasadena, assignor to Photo Research Corporation, San Fernando, Calif. Color temperature meter and spectrometer. 2,587,602, Mar. 4.

Crandell, Frank F., Pasadena, and H. Heidt, Inglewood, assignors to Photo Research Corporation, San Fernando, Calif. Direct reading color temperature meter. 2,587,601, Mar. 4.

Crapuchettes, Paul W., Palo Alto, assignor to M. R. Klein, San Francisco, Calif. Electronic voltmeter with a plurality of inputs. 2,588,209, Mar. 4.

Crawford, David C., Grosse Pointe Woods, Mich. Shoe sole straightener. 2,587,971, Mar. 4.

Crise, George W., Columbus, Ohio. Gem stone for articles of jewelry. 2,587,972, Mar. 4.

Crisman, Orvil W., New Orleans, La., and A. J. Teplitz, Penn Township, Allegheny County, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Locating leaks in well bores. 2,588,210, Mar. 4.

Crowell, Oscar H., Russellville, Ala. Safety razor. 2,588,211, Mar. 4.

Croxall, Willard J.: *See*—
Dawson, John W., and Croxall.

Crucible Steel Company of America, assignee: *See*—
Payson, Peter.

Custer, Harry W., Center Line, Mich., assignor to Ansul Chemical Company, Marinette, Wis. Fluid pressure actuated tube compressor. 2,588,212, Mar. 4.

Custis, Inez M., assignee: *See*—
Custis, James B. G., and Post.

Custis, James B. G., deceased, and E. R. Post; American Security and Trust Company, executor of said J. B. G. Custis, assignor to I. M. Custis, Washington, D. C. Hypodermic needle honing device. 2,588,089, Mar. 4.

Czarnecki, Sigmund A., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Turbine blade grinding machine. 2,587,603, Mar. 4.

Daalmeyer, Robert A., Hoboken, N. J. Automatic tire tube air valve. 2,587,973, Mar. 4.

Dahlstrom, John A.: *See*—
Resek, Marc, Dahlstrom, and Bolz.

Daiger, George P., Canton, assignor to The Hoover Company, North Canton, Ohio. Combination vaporizer and blower. 2,587,974, Mar. 4.

Darner, Frederic M., Shaker Heights, assignor to Republic Steel Corporation, Cleveland, Ohio. Apparatus for forming cylindrical shapes. 2,587,975, Mar. 4.

Dauenhauer, Florian F., Santa Rosa, Calif. Traveling mesh cluster picker, leaf and stem separator. 2,587,604, Mar. 4

Davis, Arthur P., New York, and G. Agins, Brooklyn, N. Y., assignors to Arma Corporation. Remote control apparatus. 2,588,213, Mar. 4.

Davis, Howard A.: *See*—
Rist, Carl E., Davis, and Wolff.

Davis, James B., Jr., Rockville, Md. Liquid fuel meter. 2,587,701, Mar. 4

Davis, Robert E.: *See*—
Lark-Horovitz, Karl, Benzer, and Davis.

Davis, William L., Fort Bragg, Calif. Ventilated wall. 2,587,702, Mar. 4.

Dawson, John W., Huntsville, Ala., and W. J. Croxall, Bryn Athyn, assignors to Rohm & Haas Company, Philadelphia, Pa. Pentachlorodimethoxymethanotetrahydroindene. 2,588,215, Mar. 4.

Dawson, Oliver H. P., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Apparatus for limiting the degree of subatmospheric pressures. 2,588,214, Mar. 4.

Deanesly, Richard M., Hinsdale, assignor to Universal Oil Products Company, Chicago, Ill. Cracking heavy oils in presence of oxygen. 2,587,703, Mar. 4.

Debo, Delmer G., assignor to Standard Oil Company, Chicago, Ill. Tangential cylinder valve. 2,587,704, Mar. 4.

De Forest, Taber, assignor to Magnaflux Corporation, Chicago, Ill. Flaw detection method and means for carrying out the method. 2,587,705, Mar. 4.

De Graaf, Maurice, Grand Rapids, Mich. Self-lubricating hinge pin. 2,588,216, Mar. 4.

Deinet, Joseph: *See*—
Schroeder, Herman E., and Deinet.

De Laval Separator Company, The, assignee: *See*—
Ayres, Donald F.

Deline, Irving A., Denver, Colo. Compartment box partition. 2,587,706, Mar. 4.

Delmar, Geza S., Montreal, Quebec, Canada. Preparation of basic aluminum salts of alpha amino acids. 2,588,090, Mar. 4.

De Ment, Jack, Portland, Oreg. Method and apparatus for planimetry and quadrature. 2,587,976, Mar. 4.

De Mille, Hartwell, New York, N. Y. Liquid dispensing apparatus for dispensing measured amounts of beverages. 2,588,217, Mar. 4.

De Pew, Chester C., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y. Friction type clutch. 2,587,823, Mar. 4.

Detmayer, Joseph F.: *See*—
Ristenpart, Chester H., and Detmayer.

Detrex Corporation, assignee: *See*—
Smith, Chester W.

Deubel, Justin A., Hales Corners, assignor to Perfex Corporation, Milwaukee, Wis. Resistor type flame detector. 2,587,977, Mar. 4.

Dever, Franklin J., Columbus, Ohio. Electric cord slack storage device. 2,587,707, Mar. 4.

De Vito, Angelo R.: *See*—
Allen, Edwin L., De Vito, and Muster.

Deyo, Mark R., Peoria, Ill. Drying floor for storage structures. 2,587,978, Mar. 4.

D'Haem, Marcel P.: *See*—
Roberts, James A., Fischer, and D'Haem.

Diamond Alkali Company, assignee: *See*—
Berry, David A.

Dickinson, Arthur H., Greenwich, Conn., B. E. Phelps, Wappingers Falls, and C. A. Bergfors, Yonkers, assignors to International Business Machines Corporation, New York, N. Y. Electronic system. 2,587,979, Mar. 4.

Dictaphone Corporation, assignee: *See*—
Roberts, Frederick W., and Franz.

Dikhoff, Johannes A. M.: *See*—
Dippel, Cornelis J., Lely, and Dikhoff.

Dill, Bert C., Oakes, N. Dak. Seed treater. 2,587,708, Mar. 4.

Dippel, Cornelis J., J. A. Lely, and J. A. M. Dikhoff, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Drying photographic material. 2,588,218, Mar. 4.

Displayers, Inc., The, assignee: *See*—
Corn, Belmont, Jr., and Roscher.

Disposable Bottle Corporation, assignee: *See*—
Allen, Adda M.

Doak Aircraft Co., Inc., assignee: *See*—
Morris, Charles W.

Dobeus, Vander M., Findlay, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor seat. 2,587,711, Mar. 4.

Dodge, Adiel Y., Rockford, Ill. Overload released clutch. 2,587,712, Mar. 4.

Doepker, Ervin C., New Hudson, assignor to National Tool Salvage Company, Detroit, Mich. Drill. 2,587,980, Mar. 4.

Donelson, John G., and V. W. Vaurio, Pittsburgh, Pa., assignors to United States Steel Company. Manufacture of tin plate. 2,587,605, Mar. 4.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Latch dampening device. 2,588,219, Mar. 4.

Dornbush, Edward, Miami Beach, Fla. Combination rotisserie and oven. 2,588,091, Mar. 4.

Douglas Aircraft Company, Inc., assignee: *See*—
Linderfelt, Hal R.

Downey, Richard M., North Judson, Ind., assignor to United States Gypsum Company, Chicago, Ill. Apparatus and process for making mineral wool. 2,587,710, Mar. 4.

Drycor Felt Company, assignee: *See*—
Gates, Percival T.

Dudis, Charles G., assignor to The National Cash Register Company, Dayton, Ohio. Rubber drive for printing hammers. 2,587,824, Mar. 4.

Duff, Germain E., Southbridge, Mass. Table and paper roll support for preparing paper for hanging. 2,588,092, Mar. 4.

Duffield, William A., Windsor, Ontario, assignor to Windfields (1946) Limited, Montreal, Quebec, Canada. Speed and torque sensitive governor. 2,587,981, Mar. 4.

Duffield, William A., Windsor, Ontario, assignor to Windfields Limited, Montreal, Quebec, Canada. Automatic variable-speed transmission. 2,588,220, Mar. 4.

Duhain, Ernest, Croix, France, assignor to International Harvester Company. Pitman bearing. 2,587,825, Mar. 4.

Dull, John R., La Grange, assignor to Webster-Chicago Corporation, Chicago, Ill. Tuning mechanism for television sets and the like. 2,588,093, Mar. 4.

Dungler, Julien, Basel, Switzerland. Cylinder adjusting means for machines for printing fabrics, paper, and other materials. 2,587,606, Mar. 4.

Dunod, Jean, assignor to Qualitex Societe Dunod et Cie, Paris, France. Safety device for looms. 2,587,982, Mar. 4.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Krause, William S.
Ryan, Cornelius J.
Saville, Arthur K.
Schroeder, Herman E., and Deinet.

Durand, Paul H., Paris, France, assignor to General Railway Signal Company, Rochester, N. Y. Electromagnetic device operable by alternating current. 2,587,983, Mar. 4.

Eastern Metalcraft Company, Incorporated, The, assignee: *See*—
Herbst, Clifford G.

Easthampton Rubber Thread Co., assignee: *See*—
Lilley, Samuel C.

Eaton, Richard C., North Syracuse, N. Y., assignor to General Electric Company. Continuous wave detection system. 2,588,094, Mar. 4.

Eckel, John F., Schenectady, N. Y., assignor to General Electric Company. Lead cable sheath alloy. 2,588,095, Mar. 4.

Eckenboy, Russell, Detroit, Mich. Bottle opener and seal cutter. 2,588,096, Mar. 4.

Edelman, Irving, Brooklyn, N. Y. Automatic toaster. 2,588,221, Mar. 4.

Edwards, Donald W., Dixon, Ill. Device for artificially inseminating animals. 2,587,984, Mar. 4.

Eiras, Adolfo, Buenos Aires, Argentina. Inner tube for tires. 2,588,097, Mar. 4.

Ekkebus, Eloy D., J. C. Gallagher, and R. Zapfel, assignors to Allis Rubber Corporation, Chicago, Ill. Ice cube support. 2,588,222, Mar. 4.

Elliott, Raymond G., Midpines, and J. A. Bennett, Merced, Calif. Fuel-mixture vaporizer for gas engines. 2,587,713, Mar. 4.

Elmendorf, Armin, Winnetka, Ill. Wall and making it. 2,587,985, Mar. 4.

Embree, Earl P., San Leandro, Calif., and D. C. Schmitten, Chelan, Wash. Crop-dusting machine. 2,587,714, Mar. 4.

Emerson Electric Manufacturing Company, The, assignee: *See*—
Phillips, Chester S.

Emulsol Corporation, The, assignee: *See*—
Bernstein, Herbert I., and Fuchs.

Engineering Development Company, Incorporated, assignee: *See*—
Wagner, George P.

Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.
Zimmer, Albert E.

Epstein, David J., Boston, Mass., assignor to General Electric Company. Pulse generator. 2,588,098, Mar. 4.

Erickson, John O., and R. F. Stamm, Stamford, and R. L. Libby, Bedford, Conn., assignors to American Cyanamid Company, New York, N. Y. Sterilizing biological liquids. 2,588,223, Mar. 4.

Eriez Manufacturing Co., assignee: *See*—
Potthoff, William C.

Essex Wire Corporation, assignee: *See*—
Talmadge, Palmer C., Zartman, and Prouty.

Eustis, William E. C.: *See*—
Konrad, Erich H., and Eustis.

Everhard, Harry H., Canton, Ohio. Thermostatic control device. 2,588,224, Mar. 4.

Exportlists Forsaljnings AB, assignee: *See*—
Irving, Knut T.

Express Patent Company (Liverpool) Limited, assignee: *See*—
Bieber, Abraham.

Fairchild, Cameron D., Houston, Tex., P. M. Gross, and M. E. Hobbs, Durham, N. C. Target aircraft hit indicating system. 2,587,715, Mar. 4.

Fairchild Engine and Airplane Corporation, assignee: *See*—
De Pew, Chester C.

Farnsworth, William H., Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill. Brine evaporation system. 2,588,099, Mar. 4.

Farrell, Edward W., U. S. Marine Corps. Ammunition conveyer for guns. 2,587,607, Mar. 4.

Farrington Manufacturing Company, assignee: *See*—
Gilbert, Charles H.

Faximile, Inc., assignee: *See*—
Hester, Frank A.

Federal Electric Products Company, assignee: *See*—
Ballou, Richard P.

Federico, Dominic J. J., Easton, Pa. Automatic electric toaster. 2,588,100, Mar. 4.

Felt & Tarrant Manufacturing Company, assignee: *See*—
Laiho, Jalmer M.

Fengler, Theodore H., Sherman Oaks, Calif. Package spout. 2,587,716, Mar. 4.

Ferguson, J. H., assignee: *See*—
O'Quinn, Wilbur D.

Ferrier, Herman, Oakland, and N. J. Nish, Alameda, Calif.; said Nish assignor to said Ferrier. Operating means for the plunger of cushion filling machines. 2,587,826, Mar. 4.

Field, Edmund, Chicago, Ill., and B. L. Hill, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Higher alcohols from aldehydes. 2,587,576, Mar. 4.

Finder, George A., assignor to Fin-der Inc., San Diego, Calif. Musical instrument construction. 2,588,101, Mar. 4.

Fin-der Inc., assignee: *See*—
Finder, George A.

Fine, Samuel: *See*—
Rittner, Edmund S., Grace, Fine, and Beutel.

Finlayson, Frank E., Ontario, Calif., assignor to General Electric Company. Steam iron reservoir water supply and water discharge means. 2,587,608, Mar. 4.

Fischer, Howard R.: *See*—
Roberts, James A., Fischer, and D'Haem.

Fish, Gilbert D., Pelham, N. Y. Structural beam end connection. 2,588,225, Mar. 4.

Fish-Schurman Corporation, assignee: *See*—
Bastien, Roy C.

Fisher, Alec: *See*—
Lebenbaum, Paul, Jr., and Fisher.

Fisher, Alec, Lynn, Mass., assignor to General Electric Company. Dynamoelectric machine regulating system. 2,588,319, Mar. 4.

Fisher, Andrew J., Sparrows Point, Md. Impact pulverizing apparatus having fluid jets firing toward a common point. 2,587,609, Mar. 4.

Fisher, Carl E.: *See*—
Tuck, Raymond G., and Fisher.

Fisher & Ludlow Limited, assignee: *See*—
Orwin, Olaf J. B.

Fleischmann, Lester K., Chicago, Ill., assignor to Standard Manifold Company. Movable box for stationery. 2,587,827, Mar. 4.

Fog, Ivar K., King Township, Ontario, Canada, assignor to Sangamo Electric Company, Springfield, Ill. Unidirectional gear train. 2,587,986, Mar. 4.

Fogel, Samuel, Montreal, Quebec, Canada. Windowed display container with article supporting platform. 2,587,828, Mar. 4.

Foley, Jerald E.: *See*—
McFarland, Forest R., Misch, and Foley.

Ford Motor Company, assignee: *See*—
Smith, Charles J., and Thoms.

Forero, Francisco A., Bogota, Colombia. Liquid level signaling apparatus. 2,588,102, Mar. 4.

Forssell, Harry: *See*—
Öfverholm, Håkan, and Forssell.

Fourness, Charles A., Appleton, Wis., assignor to International Cellucotton Products Company, Chicago, Ill. Tampon applicator. 2,587,717, Mar. 4.

Fox, Alexander P., University City, and A. D. Reisert, assignors to Lincoln Engineering Company, St. Louis, Mo. Tool cabinet and workbench. 2,587,829, Mar. 4.

Fox, Arthur G., Eatontown, N. J., assignor to Bell Telephone Labcratories, Incorporated, New York, N. Y. Wave guide coupling between coaxial lines. 2,588,103, Mar. 4.

Fox, Arthur G., Eatontown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave filter. 2,588,226, Mar. 4.

Fox, Benjamin, Belmar, N. J., assignor to United States of America as represented by the Secretary of War. Directional radar system. 2,587,610, Mar. 4.

Fox, Benjamin, New York, N. Y. Modulation system and method. 2,587,718, Mar. 4.

Fox, Helen E., El Paso, Tex. Upright baby walker. 2,588,104, Mar. 4.

Franceschini, Lorenzo, assignor to Societa per Azioni Officine Galileo, Florence, Italy. Auxiliary optical device for phase microscopes. 2,588,105, Mar. 4.

Frangquist, Gustav H., Chicago, Ill., assignor to Combustion Engineering-Superheater, Inc. Separating dust from a gas. 2,588,106, Mar. 4.

Franklin, Leslie U., Port Arthur, Tex., assignor to Gulf Oil Corporation, Pittsburgh, Pa. Selective hydrodesulfurization process. 2,587,987, Mar. 4.

Franz, Frederick L.: *See*—
Roberts, Frederick W., and Franz.

Fratini, Ned N., Meyersdale, Pa. Snow removing machine. 2,587,719, Mar. 4.

Frederickson, Robert I., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill. Cover and closure for waste receptacles. 2,587,988, Mar. 4.

Freeman, George S. P., Chiswick, London, assignor to Cinema-Television Limited, London, England. Image-converting device. 2,587,830, Mar. 4.

Fretz-Moon Tube Company, Inc., assignee: *See*—
Clouse, Augustus C.

Frick, Harold L., Detroit, Mich., assignor to Hydraulic Brake Company. Brake adjusting mechanism. 2,587,831, Mar. 4.

Frick, Harold L., Detroit, Mich., assignor to Hydraulic Brake Company. Slave cylinder assembly. 2,587,832, Mar. 4.

Friedler, Hans, Genoa, Italy. Indicator label. 2,587,989, Mar. 4.

Fritzberg, Lawrence H., Minneapolis, Minn. Heat exchange device. 2,587,720, Mar. 4.

Fuchs, Charles F.: *See*—
Bernstein, Herbert L., and Fuchs.

Gaerlich, Raymond, Jordan, assignor to Continental Machines, Incorporated, Savage, Minn. Gauge block finishing. 2,588,227, Mar. 4.

Gallagher, John C.: *See*—
Ekkebus, Eloy D., Gallagher, and Zapfel.

Garand, John C., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Grenade launcher valve. 2,587,611, Mar. 4.

Garner, Philip J., Hooton, Wirral, and H. N. Short, Sunbury-on-Thames, England, assignors to Shell Development Company, San Francisco, Calif. Manufacture of detergents and wetting agents from olefins. 2,587,990, Mar. 4.

Garnsey, Hamilton, and J. J. Knapp, Seneca Falls, N. Y. Vineyard cultivator. 2,587,721, Mar. 4.

Garratt, Louis D., and G. A. Breene, Emlenton, Pa. Treatment of mold surfaces. 2,587,722, Mar. 4.

Garrigan, Cornelius J.: *See*—
Kinney, Selwyne P., Garrigan, and Clarke.

Gates, Percival T., Suffield, Conn., assignor to Drycor Felt Company, Belleville, N. J. Industrial and papermakers' felt and producing the same. 2,588,228, Mar. 4.

Gates Rubber Company, The, assignee: *See*—
Pierce, Lloyd L., and White.

Geesink, Jacobus J., Bussum, assignor to Speedwheel N. V., Amsterdam, Netherlands. Hub motor with coupling. 2,588,229, Mar. 4.

General American Transportation Corporation, assignee: *See*—
Hines, Dealy K.

General Electric Company, assignee: *See*—
Bellezza, Russell G., and Rnoff.
Bousman, Henry W.
Burkhard, Charles A., and Hurd.
Eaton, Richard C.
Eckel, John F.
Epstein, David J.
Finlayson, Frank E.
Fisher, Alec.
Kern, Edward A.
Kizaur, Arthur J.
Kurtz, Lowell M.
Latta, Issac R.
Lebenbaum, Paul, Jr., and Fisher.
McFarland, James L., and Jones.
Mendelsohn, Lewis I.
Miller, Homer H.
Nelson, John D., Pyle, and Underwood.
Schettler, William R.
Somerville, Gareth G.
Swenson, Alfred G.
Vahle, Julius, Goodness, and Heath.

General Electric Company, Limited, The, assignee: *See*—
Veevers, John F., and Turner.

General Railway Signal Company, assignee: *See*—
Durand, Paul H.
Howard, James Y.
O'Brien, John C., and Sibley.
Reichard, Wade H.

General Tire and Rubber Company, The, assignee: *See*—
Cleland, Fred B., Baranecky, Kolk, and Wetzel.

George, Harry F., Chicago, Ill. Tumbler lock. 2,588,230, Mar. 4.

Gerber, Dale C., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,587,991, Mar. 4.

Germain, Leo M., Shawinigan Falls, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Splicing paper. 2,587,833, Mar. 4.

Gessmann, Edmund G., Woodside, assignor to L. Batlin & Son, Inc., New York, N. Y. Lighter. 2,588,231, Mar. 4.

Gibson, Herbert, assignee: *See*—
McQueen, Peter T.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Grisé, Alfred L.
Thomas, Cecil A. P.

Gilbert, Charles H., Brookline, assignor to Farrington Manufacturing Company Jamaica Plain, Boston, Mass. Printing apparatus. 2,587,612, Mar. 4.

Gilchrist, Albert D.: *See*—
Stewart, Seymour F., and Gilchrist.

Gilfillan Bros., Inc., assignee: *See*—
O'Neil, William T.

Gisholt Machine Company, assignee: *See*—
Tyson, Levi D.

Githens, Otto W., New York, N. Y., T. W. Smith, Houston, Tex., and D. C. Whitaker, deceased, by D. B. Whitaker, administratrix, Great Barrington, Mass. Gun perforator. 2,587,723, Mar. 4.

Glaubert, Siegfried, Neuilly-sur-Seine, France. Dry process for agglomerating wood particles. 2,587,992, Mar. 4.

Glidden Company, The, assignee: *See*—
Schulte, Edward, and Herzog.

Gohr, Edwin J., Summit, N. J., assignor to Standard Oil Development Company. Gasifying fuels. 2,588,076, Mar. 4.

Golwynne, Henry A., New York, N. Y. Production of metal powder. 2,587,614, Mar. 4.

Good Manufacturing Company, Inc., assignee: *See*—
Mided, Louis, and Gorden.

Goode, Ernest L., Joplin, Mo. Minnow bucket. 2,587,834, Mar. 4.

Goodemoot, Russell, Glendale, Calif., assignor, by mesne assignments, to Mecasco, Inc. Carpet anchoring device. 2,587,836, Mar. 4.

Goodman, Charles, New York, N. Y. Underwater constructions. 2,587,835, Mar. 4.

Goodness, Francis E.: *See*—
Vahle, Julius, Goodness, and Heath.

Goodrich, B. F., Company, The, assignee: *See*—
McCool, John C.
Slusher, Frank.

Goodwin, George I., Birmingham, Mich. Clutch plate. 2,587,837, Mar. 4.

Gorden, Henry C.: *See*—
Mided, Louis, and Gorden.

Grabau, William C., San Francisco, Calif. Integrating counter. 2,588,107, Mar. 4.

Graber, Martin: *See*—
Schroeder, John A., Bower, and Graber.

Grace, Frank E.: *See*—
Rittner, Edmund S., Grace, Fine, and Beutel.

Graflex, Inc., assignee: *See*—
Smith, Clarence E.

Grant, Jesse R., Chicago, Ill. Shipping case for fragile articles. 2,588,232, Mar. 4.

Gray Tool Company, assignee: *See*—
Mueller, Robert A.

Gray, William, Vancouver, British Columbia, Canada. Spray gun air cap. 2,587,993, Mar. 4.

Green, Arlando A., Versailles, Ind. Drive mechanism for toys. 2,588,109, Mar. 4.

Green, Paul C., assignor to Hub City Iron Company, Aberdeen, S. Dak. Spline adapter coupler. 2,587,838, Mar. 4.

Grega, Mike, Honolulu, Territory of Hawaii. Time chart. 2,587,615, Mar. 4.

Gregory, Eugene J., Seattle, Wash. Guide and routing device for portable woodworking machines. 2,587,994, Mar. 4.

Griffiths, George G., New Bedford, Mass. Latch retracting device for doors. 2,588,108, Mar. 4.

Griggs, David T., Washington, D. C., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. System for guiding airplanes in flight. 2,587,995, Mar. 4.

Grisé, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Automatic shutoff valve and signal for hose nozzles. 2,587,839, Mar. 4.

Gross, Alfred G., Wilmette, Ill., assignor to The Hoover Company, North Canton, Ohio. Absorption refrigeration. 2,587,996, Mar. 4.

Gross, Paul M.: *See*—
Fairchild, Cameron D., Gross, and Hobbs.

Grove Regulator Company, assignee: *See*—
Hoskins, Stanley W.

Gruetjen, Frederick A., assignor to A. O. Smith Corporation, Milwaukee, Wis. Welded article and making the same. 2,587,840, Mar. 4.

Guettler, Herbert W., San Francisco, Calif. Double-acting plunger press. 2,587,997, Mar. 4.

Gulf Oil Corporation, assignee: *See*—
Franklin, Leslie U.

Gulf Research & Development Company, assignee: *See*—
Crisman, Orvil W., and Teplitz.

Gundelfinger, Alan M., Los Angeles, assignor to Cinecolor Corporation, Burbank, Calif. Photographic toning and resensitizing process. 2,587,841, Mar. 4.

Gundlach, Norman J., executor: *See*—
Cartier, Lionel R.

Halin, Alfred, Forest Hills, assignor to Union Novelty Company, Inc., New York, N. Y. Picture art set. 2,588,321, Mar. 4.

Hall, Charles W., Denver, assignor to M. S. Losey, Lakewood, Colo. Rotary valve with liquid fuel injection port. 2,587,842, Mar. 4.

Hall Machine and Iron Works, Inc., assignee: *See*—
Holmes, Earl W.

Hallett, Kenneth G. D.: *See*—
Courtis, Arthur W., and Hallett.

Halliday, Thomas W., Los Angeles, Calif. Sponge counter holder. 2,588,110, Mar. 4.

Hamilton Manufacturing Company, assignee: *See*—
O'Neil, Charles S.

Hanneman, Robert G., assignor to Air-Maze Corporation, Cleveland, Ohio. Electrical precipitation apparatus. 2,588,111, Mar. 4.

Hanson, Lars, assignor to Carrier Corporation, Syracuse, N. Y. Muffling mechanism for compressor valves. 2,588,112, Mar. 4.

Hapman, Hannah J., assignee: *See*—
Hapman, Henry W.

Hapman, Henry W., assignor, by mesne assignments, of forty per cent to H. J. Hapman, Detroit, Mich. Sediment settling and removing device. 2,588,233, Mar. 4.

Harman, Denham, Berkeley, assignor to Shell Development Company, San Francisco, Calif. Alkylmercaptoalkyl phosphites. 2,587,616, Mar. 4.

Harrison, Agnes C., Provo, Utah. Diaper. 2,588,113, Mar. 4.

Harrison, Dewey L., Dallas, Tex. Collating machine. 2,587,843, Mar. 4.

Harrison, Patrick, Rouyn, Quebec, Canada. Cage and operating mechanism for shaft shovels. 2,587,844, Mar. 4.

Harter Corporation, assignee: *See*—
Penchoen, Henry A.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Dippel, Cornelis J., Lely, and Dikhoff.
Reerink, Engbert H., and Van der Vliet.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.

Haughton Elevator Company, assignee: *See*—
Panter, Carl.

Haworth, Leland J., Champaign, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Cathode-ray tube circuit. 2,588,114, Mar. 4.

Hazeltine Research, Inc., assignee: *See*—
Jones, Douglas E., and Ryde.
Loughlin, Bernard D.

Heath, Maurice R., Dallas, Tex. Hydrostatic measuring and leveling apparatus. 2,587,998, Mar. 4.

Heath, Paul D.: *See*—
Vahle, Julius, Goodness, and Heath.

Heidt, Herman: *See*—
Crandell, Frank F., and Heidt.

Heintz Manufacturing Company, assignee: *See*—
Lambert, Francis M.

Heller, Harold H., Appleton, Wis., and R. G. Sherriff, Sylacauga, Ala., assignors to Paper Patents Company, Neenah, Wis. Manufacture of calcium hypochlorite bleach liquor. 2,587,845, Mar. 4.

Heller, Harold H., Appleton, and G. H. Saunders, assignors to Paper Patents Company, Neenah, Wis. Manufacture of chalk. 2,587,999, Mar. 4.

Henderson, Albert, assignor, by mesne assignments, to Peoples First National Bank & Trust Company, Pittsburgh, Pa. Precast reinforced concrete unit. 2,587,724, Mar. 4.

Henricks, John A., Cleveland, Ohio. Drawing metal. 2,588,234, Mar. 4.

Herbst, Clifford G., assignor to The Eastern Metalcraft Company, Incorporated, Waterbury, Conn. Weighing scale. 2,588,322, Mar. 4.

Herrick, Robert H., New York, N. Y. Garment hanger. 2,588,235, Mar. 4.

Herzog, Philip C.: *See*—
Schulte, Edward, and Herzog.

Hester, Frank A., assignor to Faximile, Inc., New York, N. Y. Distortion compensating device for facsimile equipment. 2,587,617, Mar. 4.

Hewlett-Packard Company, assignee: *See*—
Packard, David, and Schrock.

Hickok Manufacturing Co. Inc., assignee: *See*—
Whitehouse, John R., and Valsey.

Hicks, Robert R., Toronto, Ontario, Canada. Cribbage scorekeeper. 2,587,618, Mar. 4.

Higginbotham, Robert J., Charlotte, N. C. Calendar rack. 2,588,236, Mar. 4.

Hill, Bernard L.: *See*—
Field, Edmund, and Hill.

Hines, Dealy K., Columbus, Ga. Suction cleaner with brush for cleaning walls. 2,588,000, Mar. 4.

Hines, Dealy K., Oceanside, N. Y., assignor to General American Transportation Corporation, Chicago, Ill. Sedimentation device. 2,588,115, Mar. 4.

Hinsey, Robert S., assignor to The Bingham-Herbrand Company, Toledo, Ohio. Mechanism control. 2,587,725, Mar. 4.

Hirschfelder, Richard, Chicago, Ill. Billfold. 2,588,237, Mar. 4.

"Hispano-Suiza" (Suisse) S. A., assignee: *See*—
Birkigt, Louis.

Hobbs, Marcus E.: *See*—
Fairchild, Cameron D., Gross, and Hobbs.

Hodsdon, Floyd G., Milwaukee, Wis., assignor to International Harvester Company. Movable feed shield for milker stalls. 2,587,846, Mar. 4.

Hofmann, Gloris R., assignor to Kiekhaefer Corporation, Cedarburg, Wis. Ignition system for internal-combustion engines. 2,587,847, Mar. 4.

Hofmann, Hugo, Elizabethton, Tenn., assignor, by mesne assignments, to Beaunit Mills, Inc., New York, N. Y. Process and apparatus for the production of synthetic thread. 2,587,619, Mar. 4.

Hogne, Henric V., Stockholm, Sweden. Tailpiece for stringed instruments. 2,588,238, Mar. 4.

Hohwart, Ernest F.: *See*—
Hohwart, George and E. F.

Hohwart, George and E. F., Detroit, assignors to N. A. Woodworth Company, Ferndale, Mich. Adjustable ring gauge. 2,588,116, Mar. 4.

Hohwart, George and E. F., Detroit, assignors to N. A. Woodworth Company, Ferndale, Mich. Adjustable ring gauge. 2,588,117, Mar. 4.

Holder, Arthur, Durham, and T. Niedszwecki, Rockfall, assignors to The Merriam Manufacturing Company, Durham, Conn. Compartmented container or tray. 2,587,726, Mar. 4.

Holland, James C., Los Angeles, Calif. Apparatus for moving small houses and the like. 2,588,001, Mar. 4.

Holmes, Bradford B., New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Valve for respiratory devices. 2,588,118, Mar. 4.

Holmes, Earl W., Burlington, Wash. Hydraulically operated mobile weed and brush cutter. 2,588,002, Mar. 4.

Holmes, Earl W., Burlington, assignor to Hall Machine and Iron Works, Inc., Mount Vernon, Wash. Hydraulically operated reciprocating sickle mechanism. 2,588,003, Mar. 4.

Holmes, Earl W., Burlington, Wash. Control means for hydraulically operated weed and brush cutters. 2,588,004, Mar. 4.

Home Curtain Corp., assignee: *See*—
Lepow, Edward J.

Hooe, Hunter E.: *See*—
Connor, Roger, and Hooe.

Hoover Company, The, assignee: *See*—
Coons, Curtis C., and Sutton.
Daiger, George P.
Gerber, Dale C.
Gross, Alfred G.

Hoover, Smith W., Kalamazoo, Mich. Container and rack for holding and pressing neckties. 2,587,850, Mar. 4.

Hopton, Harold, Bismarck, N. Dak., and L. T. Wahlstrom, Chicago, Ill. Draft regulator. 2,588,239, Mar. 4.

Hormann, Josef, Bellaire, N. Y. Apparatus for simulating a snowfall. 2,587,620, Mar. 4.

Horsley, Caperton B., Westwood, and G. C. Seavey, Arlington, assignors to Sonic Research Corporation, Boston, Mass. Piston type sound generator. 2,587,848, Mar. 4.

Horswell, Alfred H., and A. H. Horswell, Jr., Jermyn, Pa., assignors to Ajax Engineering Corporation, Trenton, N. J. Tiltable induction furnace. 2,587,727, Mar. 4.

Horswell, Alfred H., Jr.: *See*—
Horswell, Alfred H., and A. H. Horswell, Jr.

Hosking, Homer L., Scarsdale, assignor to Republic Boiler Corporation, New York, N. Y. Horizontal fire tube welded boiler. 2,587,849, Mar. 4.

Hoskins, Stanley W., London, England, assignor, by mesne assignments, to Grove Regulator Company. Loading means for pressure regulators. 2,587,728, Mar. 4.

Houdry Process Corporation, assignee: *See*—
Weinrich, William W.

Houghton, Edward W., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulsing circuit. 2,588,240, Mar. 4.

Howard, James Y., Greece, assignor to General Railway Signal Company, Rochester, N. Y. Approach control in coded track circuit signaling systems. 2,588,005, Mar. 4.

Howard, Robert C.: *See*—
Pridy, Whetstine B., and Howard.

Hub City Iron Company, assignee: *See*—
Green, Paul C.

Huff, Lyman C., Evanston, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of a mixture of hydrocarbonaceous solids and liquid hydrocarbons. 2,587,729, Mar. 4.

Huffman, Coy L., Greenville, S. C. Connecting member for looms. 2,588,241, Mar. 4.

Hufnagel, Fred M., Glendale, Calif. Dental and surgical percussion tool. 2,588,006, Mar. 4.

Hughes, Everett C., Cleveland Heights, and J. D. Bartleson, East Cleveland, assignors to The Standard Oil Company, Cleveland, Ohio. Improving lubricants and lubricating oil additives. 2,587,621, Mar. 4.

Hughes, Leslie N.: *See*—
Stanfield, James R., and Hughes.

Hunter, Rutherford H., Wooster, Ohio. Silent ball cock. 2,588,242, Mar. 4.

Hupp Corporation, assignee: *See*—
Rossmann, Peter F.

Hurd, Dallas T.: *See*—
Burkhard, Charles A., and Hurd.

Hurley, Eric: *See*—
Caldwell, Stanley B., and Hurley.

Hurst, Max, assignor to Robert Bosch, G. m. b. H., Stuttgart, Germany. Speed controlled governor. 2,588,119, Mar. 4.

Hutchinson, Harry A., and R. C. Patchett, Sebastopol, Calif.; said Patchett assignor to said Hutchinson. Egg cleaning machine. 2,587,730, Mar. 4.

Hydraulic Brake Company, assignee: *See*—
Frick, Harold L.

Hyman, Charles M., Davenport, Iowa, assignor to International Harvester Company. Adjustable shaft hanger. 2,587,851, Mar. 4.

Illinois Railway Equipment Company, assignee: *See*—
Oakley, Gilbert F.

Illinois Tool Works, assignee: *See*—
Anderson, William C.

Independent Engineering Company, Inc., assignee: *See*—
Cartier, Lionel R.

Industrial Developments Limited, Singapore, assignee: *See*—
Smith, William J.

Ingels, James J., Chicago, Ill. Multiple rolling mechanism. 2,588,120, Mar. 4.

International Business Machines Corporation, assignee: *See*—
Dickinson, Arthur H., Phelps, and Bergfors.
Last, James.
Rowley, Russell A.

International Cellucotton Products Company, assignee: *See*—
Fourness, Charles A.

International Hardware Manufacturing Company, assignee: *See*—
Brownie, Rex S.

International Harvester Company, assignee: *See*—
Duhain, Ernest.
Hodsdon, Floyd G.
Hyman, Charles M.
Karlsson, Elof K.
Marshall, James R.
McNeill, James K.
Sulcek, Charles E.

International Projector Corporation, assignee: *See*—
Borberg, Willy.

Ipatieff, Vladimir N., and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Production of aryliindanes. 2,587,577, Mar. 4.

Iron Fireman Manufacturing Company, assignee: *See*—
Webb, Ernest C.

Irving, Frank J., San Gabriel, Calif. Electrically heated chair. 2,587,731, Mar. 4.

Irving, Knut T., assignor to Exportlists Forsaljnings AB, Nykoping, Sweden. Suspension device for curtains, draperies, or the like. 2,588,243, Mar. 4.

Iverson, Arden L.: *See*—
Kohl, William R., and Iverson.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Breit, Robert J., and Schroeder.

Jacquard Knitting Machine Co., Inc., assignee: *See*—
Teubner, Edmund E.

Jaeger, Edward T., Rockville Centre, assignor to Manhasset Machine Company, Mineola, N. Y. Bagmaking machine. 2,587,732, Mar. 4.

Jaffe, Leonard D., Cambridge, Mass. Method and apparatus for measuring heat flow during quenching of metals. 2,587,622, Mar. 4.

Jaffee, Robert I., assignor, by mesne assignments, to Battelle Development Corporation, Columbus, Ohio. Titanium-molybdenum-chromium alloys. 2,588,007, Mar. 4.

Jahn, Fred S., and J. A. Carmien, Los Angeles, and J. E. Mullings, Pacific Palisades, assignors to New Plastic Corporation, Los Angeles, Calif. Flexible ice tray. 2,587,852, Mar. 4.

Jeanes, Allene R., and C. A. Wilham, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Acylation of dextran in formamide. 2,587,623, Mar. 4.

Jenkins, George F.: *See*—
Sheldon, Donald F., and Jenkins.

Jensen, Jack H., and D. J. Rust, assignors to Ry-Lock Company, Ltd., San Leandro, Calif. Fastening device. 2,587,853, Mar. 4.

Johanson, Elof, deceased, Chicago, Ill., by T. D. Nash, administrator, Chicago, Ill. Can-opening device. 2,588,244, Mar. 4.

Johnson, Edward O.: *See*—
Webster, William M., Johnson, and Malter.

Johnson, Fred P., Raeford, N. C. Material storage and handling apparatus. 2,587,854, Mar. 4.

Johnson, Harold E., Jeffersonville, Ind. Retractable wheel suspension for vehicles. 2,587,624, Mar. 4.

Johnson, Oscar F., San Francisco, Calif. Illumination for ice skating rinks. 2,587,855, Mar. 4.

Johnston, Clifford, Northville, Alberta, Canada. Feed roller. 2,588,121, Mar. 4.

Jones, Douglas E., and J. W. Ryde, Wembley, England, assignors to Hazeltine Research, Inc., Chicago, Ill. Germanium crystal rectifiers and producing the crystal element thereof. 2,588,008, Mar. 4.

Jones, Edwin A., Webster Groves, Mo. Temperature control system. 2,587,733, Mar. 4.

Jones, George D., and L. C. Miller, assignors to Reelshav Corporation, Los Angeles, Calif. Holder for magazine type razors. 2,587,625, Mar. 4.

Jones, John L., Los Angeles, Calif., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Preparation of phenolic resins that produce light-colored varnish coatings. 2,587,578, Mar. 4.

Jones, Norman B.: *See*—
McFarland, James L., and Jones.

Jones, Norman B., assignor to The Toledo Plate & Window Glass Company, Toledo, Ohio. Mounting device for wall mirrors. 2,588,009, Mar. 4.

Jones, Walter F., Washington, Conn., assignor to Carrier Corporation, Syracuse, N. Y. Arrangement for collecting and utilizing natural gas leakage from a centrifugal compressor employed on a pipe line. 2,588,122, Mar. 4.

Jordan, Morrill R., Boston, Mass. Distributor for watering plants. 2,588,245, Mar. 4.

Joy Manufacturing Company, assignee: *See*—
Osgood, Charles F.
Woolf, James W.

Jung, August C., Elkhorn, Wis. Mailbox support. 2,587,856, Mar. 4.

Kalfaian, Meguer V., Hollywood, Calif. Modulator tube and circuit. 2,587,734, Mar. 4.

Kalosy, John A., Caldwell, N. J. Single string musical instrument. 2,587,735, Mar. 4.

Karlsson, Elof K., Moline, Ill., assignor to International Harvester Company. Endless belt snapping rolls. 2,587,857, Mar. 4.

Katz, Julius, New York, and F. P. Majoros, Brooklyn, assignors to Superba Manufacturing Co., Inc., New York, N. Y. Seam opening attachment. 2,587,626, Mar. 4.

Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 2,587,627, Mar. 4.

Kaufmann, Stephen: *See*—
Rosenkranz, George, and Kaufmann.

Kendall, Edward C., Rochester, Minn., assignor to Research Corporation, New York, N. Y. Intermediate compounds in the synthesis of dehydrocorticosterone. 2,587,579, Mar. 4.

Kennedy-Van Saun Mfg. & Eng. Corporation, assignee: *See*—
Pyle, John V.

Kenner, Leonard: *See*—
Lewis, John B., and Kenner.

Kenney Manufacturing Company, assignee: *See*—
Cameron, Warren B. S.
Kenney, William C.

Kenney, William C., assignor to Kenney Manufacturing Company, Cranston, R. I. Festoon holder. 2,588,246, Mar. 4.

Kennon, Lorenzo, Burbank, assignor to Rice Engineering Corporation, Los Angeles, Calif. Door hinge and check. 2,588,010, Mar. 4.

Kern, Edward A., Pittsfield, Mass., assignor to General Electric Company. Preparation of vinyltetrahydronaphthalenes. 2,588,123, Mar. 4.

Kersey, Maurice J., New Castle, Ind. Metal awning structure. 2,588,011, Mar. 4.

Keulemans, Aloysius I. M., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Production of oxygenated compounds. 2,587,858, Mar. 4.

Kiekhaefer Corporation, assignee: *See*—
Hofmann, Gloris R.

Kindscher, Paul J., Woodbridge, N. J. Interchangeable fish lure. 2,587,736, Mar. 4.

King, H. A., assignee: *See*—
Peirce, Thomas H.

King, Harold B., Dayton, Ohio. Load stroke indicator. 2,587,628, Mar. 4.

King, Robert S., Oak Park, Ill. Venetian blind structure. 2,587,859, Mar. 4.

Kinney, S. P., Engineers, Inc., assignee: *See*—
Kinney, Selwyne P., Garrigan, and Clarke.

Kinney, Selwyne P., Crafton, C. J. Garrigan, Greentree, and W. W. Clarke, Monaca, assignors to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Spray nozzle. 2,588,247, Mar. 4.

Kirkpatrick, Joseph R., Euclid, assignor to Perfection Stove Company, Cleveland, Ohio. Spring suspension. 2,588,012, Mar. 4.

Kizaur, Arthur J., Wauwatosa, Wis., assignor to General Electric Company. X-ray apparatus. 2,588,124, Mar. 4.

Klein, Alexander, Berkeley, Calif., assignor to L. S. Wertz, Cleveland, Ohio. Hydraulic cementitious mixtures and making. 2,588,248, Mar. 4.

Klein, Michael R., assignee: *See*—
Crapuchettes, Paul W.

Kleinekathöfer, Felix, Bad-Kreuznach, Germany. Artificial leg. 2,588,013, Mar. 4.

Knapp, John J.: *See*—
Garnsey, Hamilton, and Knapp.

Knapp-Monarch Company, assignee: *See*—
Snyder, Leland H.

Kniel, Ludwig, Scarsdale, assignor to The Lummus Company, New York, N. Y. Production of ethylene. 2,588,323, Mar. 4.

Knowland, Thomas M., Belmont, and G. D. Marcy, Newton Highlands, assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass. Uniformly spray coating. 2,588,125, Mar. 4.

Knudsen, Knud J., assignor to The Lewis Engineering Company, Naugatuck, Conn. Resistance thermometer bulb. 2,588,014, Mar. 4.

Kochendoerffer, Herman, New Rochelle, assignor of one-third to M. G. Underhill, Tuckahoe, and one-third to C. Sutherland, Yonkers, N. Y. Pen. 2,588,015, Mar. 4.

Kock, Winston E., Middletown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave polarization shifter systems. 2,588,249, Mar. 4.

Kögel, Wilhelm G., assignor to Aktiebolaget Elektrolux, Stockholm, Sweden. Absorption refrigeration. 2,587,629, Mar. 4.

Kohl, William R., Glenview, and A. L. Iverson, assignors to Para-Lux Products Company, Chicago, Ill. Shirt collar support. 2,587,866, Mar. 4.

Kolfenbach, John J.: *See*—
O'Halloran, Rosemary, and Kolfenbach.

Kolk, Chester R.: *See*—
Cleland, Fred B., Baranecky, Kolk, and Wetzel.

Konrad, Erich H., Shelburne, and W. E. C. Eustis, Burlington, Vt., assignors to Sulphide Ore Process Company, Inc., New York, N. Y. Electrodeposition of iron in the form of continuous strips. 2,587,630, Mar. 4.

Kopelman, Bernard, Brooklyn, and E. Wainer, Niagara Falls, assignors, by mesne assignments, to National Lead Company, New York, N. Y. Superopaque enamel. 2,588,250, Mar. 4.

Koppers Company, Inc., assignee: *See*—
Corson, Ben B., and Webb.

Korolyshun, Russell T., Derby, and F. J. Sullivan, Ansonia, Conn., assignors to Sidney Blumenthal & Company, Inc., New York, N. Y. Machine for cutting textiles. 2,588,016, Mar. 4.

Kost, Harold W., assignor to Prestole Corporation, Toledo, Ohio. Fastener for apertured panels. 2,588,251, Mar. 4.

Koster, Curtis M., assignor, by mesne assignments, to Breda, Inc., San Francisco, Calif. Cap closure. 2,587,737, Mar. 4.

Koster, Curtis M., assignor, by mesne assignments, to Breda, Inc., San Francisco, Calif. Container closure. 2,587,738, Mar. 4.

Krause, William S., Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of benzidine sulfate. 2,587,861, Mar. 4.

Krewson, Charles F.: *See*—
Couch, James F., and Krewson.

Krucki, Charles S., assignor to Crampton Manufacturing Company, Grand Rapids, Mich. Faucet handle connection. 2,587,862, Mar. 4.

Kuehne, Herbert A., Maywood, Ill., assignor to American Can Company, New York, N. Y. Apparatus for measuring and detecting magnetic objects. 2,587,631, Mar. 4.

Kunz, Paul A., Geneva, Switzerland, assignor to Mefina S. A., Binningen. Tumbler lock plug. 2,587,739, Mar. 4.

Kurtz, Lowell M., Erie, Pa., assignor to General Electric Company. Compressor shaft assembly. 2,588,126, Mar. 4.

Kwizz Kard Company, assignee: *See*—
Bard, Calvin.

Laiho, Jalmer M., Skokie, assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill. Interlock for calculating machine control keys. 2,588,127, Mar. 4.

Lambach, Fritz, Tenafly, assignor to Robert Reiner, Inc., Weehawken, N. J. Straight bar knitting machine and operating same. 2,587,632, Mar. 4.

Lambert, Francis M., Narberth, assignor to Heintz Manufacturing Company, Philadelphia, Pa. Sliding bulkhead door. 2,587,863, Mar. 4.

Lampe, Albert G., Madison, Wis. Ball swivel base spotlight. 2,588,252, Mar. 4.

Lankelma, Herman P.: *See*—
Musselman, John M., and Lankelma.

Lark-Horovitz, Karl, and R. M. Whaley, assignors to Purdue Research Foundation, La Fayette, Ind. Alloys and rectifiers made thereof. 2,588,253, Mar. 4.

Lark-Horovitz, Karl, La Fayette, Ind., S. Benzer, Pasadena, Calif., and R. E. Davis, East McKeesport, Pa., assignors to Purdue Research Foundation, La Fayette, Ind. Photoelectric and thermoelectric device utilizing semiconducting material. 2,588,254, Mar. 4.

Larsen, Karl M., Minneapolis, Minn. Jig for pivotally suspending articles. 2,588,128, Mar. 4.

Larsh, James H., Leadville, Colo. Liquid mixing device. 2,588,255, Mar. 4.

Last, James, London, England, assignor to International Business Machines Corporation, New York, N. Y. Torque transmitting device. 2,588,017, Mar. 4.

Latta, Isaac R., Drexel Hill, Pa., assignor to General Electric Company. Indicator light for control switches. 2,588,129, Mar. 4.

Lauenstein, Carl F., Indianapolis, Ind., assignor to Link-Belt Company. Reactor assembly. 2,588,018, Mar. 4.

Laughlin, Roy F., Orlando, Fla. Can aligner and conveyer. 2,587,740, Mar. 4.

Law, Harold B., Princeton, N. J., assignor to Radio Corporation of America. Monoscope target for pickup tubes. 2,588,019, Mar. 4.

Lebenbaum, Paul, Jr., and A. Fisher, Lynn, Mass., assignors to General Electric Company. Dynamoelectric apparatus. 2,588,320, Mar. 4.

Leece-Neville Company, The, assignee: *See*—
Ogilvy, Robert C.
Stewart, Seymour F., and Gilchrist.

Lefere Forge & Machine Company, assignee: *See*—
Lefere, Maurice P.

Lefere, Maurice P., assignor to Lefere Forge & Machine Company, Jackson, Mich. Forging. 2,587,864, Mar. 4.

Leiser, Henry, Denver, Colo. Sheet metal brake. 2,587,865, Mar. 4.

Leitz, Ernst, G. m. b. H., assignee: *See*—
Weissenberg, Gustav, and Sänger.

Lely, Jan A.: *See*—
Dippel, Cornelis J., Lely, and Dikhoff.

Lemon, Cecil G., Tidmarsh Grange, and E. T. C. Brinton, Quatt, near Bridgnorth, England. Method and apparatus for the manufacture of carpets. 2,588,130, Mar. 4.

Lenzinger Zellwolle-und Papierfabrik Aktiengesellschaft, assignee: *See*—
Mössmer, Viktor.

Lepow, Edward J., New York, N. Y., assignor to Home Curtain Corp. Curtain construction. 2,588,256, Mar. 4.

Lester, Stephen T., Cleveland Heights, Ohio. Measuring and marketing height indicator. 2,588,131, Mar. 4.

Levin, Bayre, Detroit, Mich. Hot-air register. 2,587,633, Mar. 4.

Lewis Engineering Company, The, assignee: *See*—
Knudsen, Knud J.

Lewis Invisible Stitch Machine Company, assignee: *See*—
Mueller, Charles W.

Lewis, John B., Englewood, N. J., and L. Kenner, New York, N. Y., assignors to Amm-I-Dent, Inc., Jersey City, N. J. Dental paste. 2,588,324, Mar. 4.

Lewus, Alexander J., Cicero, Ill. Relay for alternating-current motors. 2,588,257, Mar. 4.

Lewy, Archie, assignee: *See*—
Oakes, Earle D.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Jones, John L.

Libby, Henry I., Hampden, Mass. Airplane control. 2,588,020, Mar. 4.

Libby, Raymond L.: *See*—
Erickson, John O., Stamm, and Libby.

Libois, Louis-Joseph, Paris, France. Pulse shaping circuit. 2,587,741, Mar. 4.

Liljefors, Anders, Karlskrona, Sweden. Controllable hydraulic power transmission. 2,587,866, Mar. 4.

Lilley, Samuel C., assignor to Easthampton Rubber Thread Co., Easthampton, Mass. Apparatus for splitting rubber thread. 2,587,634, Mar. 4.

Lincoln Engineering Company, assignee: *See*—
Fox, Alexander P., and Reisert.

Linderfelt, Hal R., West Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc. Latch mechanism. 2,587,867, Mar. 4.

Link-Belt Company, assignee: *See*—
Lauenstein, Carl F.
Musschoot, Albert, and Regensburger.

Lippitt, Stephen W., Lakewood, Ohio, assignor to Sani-Tread Company Incorporated, Buffalo, N. Y. Machine for the manufacture of fiber footwear. 2,588,132, Mar. 4.

Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Nelson, Harry.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Company. Apparatus for continuously processing strands. 2,587,742, Mar. 4.

Losey, M. S., assignee: *See*—
Hall, Charles W.

Loughlin, Bernard D., Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Superregenerative receiver. 2,588,021, Mar. 4.

Loughlin, Bernard D., Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Superregenerative superheterodyne wave-signal receiver. 2,588,022, Mar. 4.

Lovell, Clarence A., Summit, and D. B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spaced-pulse impulse sender. 2,587,635, Mar. 4.

Lovell Manufacturing Company, assignee: *See*—
Kauffman, Walter L., II.

Lowe, Joe, Corporation, assignee: *See*—
Thomas, Norman M.

Lowman, Theodore A., Fairbanks, Alaska. Adjustable door hinge. 2,588,258, Mar. 4.

Lummus Company, The, assignee: *See*—
Kniel, Ludwig.

Lunde, Einar O., Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y. Pneumatic operating means for railway dump cars. 2,588,133, Mar. 4.

Lundell, Alvin O., assignor to The Allbright-Nell Company, Chicago, Ill. Dehairing apparatus for hog carcasses. 2,588,259, Mar. 4.

Lustig, Hans G.: *See*—
Roughsedge, Robert H., and Lustig.

Lynch, Charles S., Plainfield, and E. S. Corner, Maplewood, N. J., assignors to Standard Oil Development Company. Oxidation carrier for the oxidation of hydrocarbons. 2,588,260, Mar. 4.

M & J Engineering Co., assignee: *See*—
Wift, Richard M.

Maas-Rowe Electromusic Corporation, assignee: *See*—
Rowe, Paul H.

Machine Tool Works Oerlikon, Administration Company, assignee: *See*—
Schnellmann, Oskar.

Mackey, Avis O., Homer, N. Y. Coat hanger. 2,587,743, Mar. 4.

MacMullen, Clinton W., Fayetteville, N. Y., assignor to Cowles Chemical Company, Cleveland, Ohio. Making alkali metal salts of organosiloxanols and organosilanetriols. 2,587,636, Mar. 4.

Madland, Gabriel, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Watertight edge for railway car doors. 2,587,868, Mar. 4.

Madland, Gabriel, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Weathertight sliding car door. 2,588,134, Mar. 4.

Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, New Haven, Conn. Syringe. 2,588,135, Mar. 4.

Magdeburger, Edward C., Washington, D. C. Tuned supercharging. 2,588,261, Mar. 4.

Magnaflux Corporation, assignee: *See*—
De Forest, Taber.

Magnusson, Elis M., assignor to Aktiebolaget Ekonomiregister, Stockholm, Sweden. Bookkeeping machine. 2,588,023, Mar. 4.

Magoon, Leon E.: *See*—
Chavannes, Marc A., and Magoon.

Magor Car Corporation, assignee: *See*—
Lunde, Einar O.

Majoros, Frank P.: *See*—
Katz, Julius, and Majoros.

Mallinckrodt Chemical Works, assignee: *See*—
Mallinckrodt, Edward, Jr., and Ruehle.
Wallingford, Vernon H.

Mallinckrodt, Edward, Jr., St. Louis, and A. E. Ruehle, Kirkwood, assignors to Mallinckrodt Chemical Works, St. Louis, Mo. Preservation of ether. 2,587,744, Mar. 4.

Mallory, Marion, Detroit, Mich. Charge control valve mechanism for internal-combustion engines. 2,588,136, Mar. 4.

Malter, Louis: *See*—
Webster, William M., Johnson, and Malter.

Manhasset Machine Company, assignee: *See*—
Jaeger, Edward T.

Manville, Henrietta P., Woodbury, assignor to The Risdon Manufacturing Company, Naugatuck, Conn. Lipstick holder. 2,588,024, Mar. 4.

Mapes Consolidated Manufacturing Company, assignee: *See*—
Nelson, Arthur W., and Alfreds.

Marcy, Grosvenor D.: *See*—
Knowland, Thomas M., and Marcy.

Margolin, Edward, Philadelphia, Pa. Grinder. 2,588,025, Mar. 4.

Marquette Metal Products Company, The, assignee: *See*— Sacchini, Columbus R. Weiser, Robert E.

Marshall, James R., Temple, Tex., assignor to International Harvester Company. Bowl scraper attachment for tractors. 2,587,869, Mar. 4.

Marsters, Alton K., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 2,587,870, Mar. 4.

Martin, Emile, Grenoble, France. Self-feeding lubricator. 2,588,026, Mar. 4.

Marvin, Philip R., Wauwatosa, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Device for controlling fluid flow. 2,588,137, Mar. 4.

Mataré, Hérbert François, Vaucresson, assignor to Societe anonyme dite: Compagnie des Freins et Signaux Westinghouse. Paris, France. Varying electromagnetic waves in a wave guide. 2,588,262, Mar. 4.

Matthewman, Rodger B., Stow, assignor to Simonds Saw and Steel Company, Fitchburg, Mass. Automatically actuated wheel feed mechanism for saw grinding machines. 2,588,263, Mar. 4.

Maurer, Edward C., St. Paul, Minn. Selectively operated garment finisher. 2,587,745, Mar. 4.

May, John, and J. C. May, Youngstown, Ohio. House trailer heating system. 2,587,871, Mar. 4.

May, John C.: *See*— May, John and J. C.

May, Otto H., Schwabisch Gmund, Germany. Toggle press linkage. 2,587,746, Mar. 4.

McBee Company, The, assignee: *See*— Connor, Roger, and Hooe.

McBurney, Willard B., Atlanta, Ga. Fly ash arrester. 2,588,138, Mar. 4.

McCaffrey, Francis H. G.: *See*— Chalmers, John B., and McCaffrey.

McCall, Donald O., assignor to Basalt Rock Company, Inc., Napa, Calif. Side-fed forming press for elongated workpieces and feed and discharge mechanism therefor. 2,588,325, Mar. 4.

McCarthy, Charles S., Brimingham, assignor to American Forging and Socket Company, Pontiac, Mich. Brake actuator. 2,588,027, Mar. 4.

McCarthy, Rollin H., Madison, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Flyer mechanism for toroidal coil winding machines. 2,588,139, Mar. 4.

McCool, John C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Preparing carbothiolic acids. 2,587,580, Mar. 4.

McCullough, Paul J., assignor to Joseph Pavelka, St. Louis, Mo. Pressure chamber liquid control unit. 2,587,747, Mar. 4.

McDonald, Louis, Inyokern, Calif. Detergent composition. 2,587,637, Mar. 4.

McDonald, Louis, Boston, Mass. Detergent composition. 2,588,264, Mar. 4.

McFarland, Forest R., Huntington Woods, H. L. Misch, Ferndale, and J. E. Foley, assignors to Packard Motor Car Company, Detroit, Mich. Fluid control device. 2,588,140, Mar. 4.

McFarland, James L., Schenectady, and N. B. Jones, Ballston Lake, N. Y., assignors to General Electric Company. Continuous type furnace. 2,588,141, Mar. 4.

McGauley, Patrick J., Glen Cove, assignor to Chemical Construction Corporation, New York, N. Y. Isolation of nickel sulfide. 2,588,265, Mar. 4.

McHale, Michael J., Scranton, Pa. Flier construction. 2,588,266, Mar. 4.

McLain, Harold O., Highland Park, Ill. Icing machine. 2,587,872, Mar. 4.

McLaughlin, Eli H., Vienna, W. Va. Tube drill adapter. 2,588,267, Mar. 4.

McNeill, James K., Gary, Ind., assignor to International Harvester Company. Apparatus for cultivation by flame. 2,587,873, Mar. 4.

McNinch, James N., assignor to Sterling Electronic Door Control Corporation, Sterling, Ill. Electric overhead door operating device. 2,588,028, Mar. 4.

McQueen, Peter T., Milnathort, assignor of one-third to W. W. Bowie and one-third to H. Gibson, Edinburgh, Scotland. Package delivery chute. 2,588,142, Mar. 4.

Mecasco, Inc., assignee: *See*— Goodemoot, Russell.

Mefina, S. A., Binningen, assignee: *See*— Kunz, Paul A.

Meier, Johann: *See*— Mettler, Erhard K., and Meier.

Meier, Johann H., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Automatic feed for cable tool drill. 2,587,638, Mar. 4.

Mendelsohn, Lewis I., Lynn, Mass., assignor to General Electric Company. Gauss meter. 2,588,143, Mar. 4.

Mercer, Kenneth K., Houston, Tex., and W. E. Catterall, Elizabeth, N. J., assignors to Standard Oil Development Company. Dehydrating isophorone fatty acid extract. 2,588,268, Mar. 4.

Merkl, Rupert, Ossining, N. Y. Rodent trap. 2,587,748, Mar. 4.

Merriam Manufacturing Company, The, assignee: *See*— Holder, Arthur, and Niedazwecki.

Mettler, Erhard K., Zollikon Zurich, J. Meier, Kusnacht Zurich, Switzerland. Calculating instrument with optical projection system for magnification. 2,588,269, Mar. 4.

Michael, Henry J.: *See*— Busch, Aloysius J., and Michael.

Mided, Louis, and H. C. Gorden, assignors to Good Manufacturing Company, Inc., Chicago, Ill. Jointed fluorescent lamp fixture which may be collapsed for shipment. 2,588,144, Mar. 4.

Miley, Hunter, Petrolia, Pa. assignor to L. Sonneborn Sons, Inc. Rotary kiln for the recovery of acid values. 2,587,639, Mar. 4.

Miley, Hunter, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc. Recovery of acid values from petroleum refining sulfuric acid sludges. 2,587,640, Mar. 4.

Miller, Homer H., Bridgeport, Conn., assignor to General Electric Company. Electric cooking appliance. 2,588,145, Mar. 4.

Miller, Joe, Houston, and J. W. Workman, Katy, Tex., assignors, by mesne assignments, to Standard Oil Development, Elizabeth, N. J. Meter house. 2,588,270, Mar. 4.

Miller, Leonidas C.: *See*— Jones, George D., and Miller.

Miller, Waldemar W., Henderson, Nev. Cigarette novelty. 2,588,146, Mar. 4.

Milwaukee Gas Specialty Company, assignee: *See*— Marvin, Philip R. Thornberry, John H. Wasson, Loerwood.

Misch, Herbert L.: *See*— McFarland, Forest R., Misch, and Foley.

Misson, William H., Los Altos, Calif. Paper punch. 2,587,749, Mar. 4.

Mockel, Fred A., Kettle Falls, Wash. Load binder. 2,587,874, Mar. 4.

Modern Faucet Mfg. Co., assignee: *See*— Bletcher, Ralph E., Bentley, and Ward.

Moersch, George W., and A. C. Moore, assignors to Parke, Davis & Company, Detroit, Mich. 1-p-nitrophenyl-2-dihaloacetamidopropane-1,3-diol cyclic carbonate and sulfite. 2,587,641, Mar. 4.

Moloney, Peter J.: *See*— Taylor, Edith M., and Moloney.

Monsanto Chemical Company, assignee: *See*— Benignus, Paul G.

Moore, Allen C.: *See*— Moersch, George W., and Moore.

Moore, Craig M.: *See*— Morgan, Thomas J., and Moore.

Moore Electronic Laboratories, Inc., assignee: *See*— Bordewieck, Robert W.

Moore, John D., Long Branch, and B. S. Wood, Toronto, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada. Control level assembly. 2,587,875, Mar. 4.

Moore, Robert F., Pueblo, Colo. Sealing device for meters and the like. 2,587,876, Mar. 4.

Morgan, Thomas J., and C. M. Moore, assignors to The Superior Switchboard & Devices Company, Canton, Ohio. Disconnectible hinge construction for parking meter doors. 2,588,271, Mar. 4.

Morrell, Charles E., Westfield, C. S. Carlson, Roselle, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Distillation of oxygenated organic compounds. 2,588,272, Mar. 4.

Morris, Charles W., Los Angeles, assignor to Doak Aircraft Co., Inc., Torrance, Calif. Lounging chair. 2,588,029, Mar. 4.

Morris, Jolly L., Ellwood City, Pa. Fence structure. 2,588,147, Mar. 4.

Morris Paper Mills, assignee: *See*— Arneson, Edwin L.

Morris, William G., Statesville, N. C. Railway switch joint. 2,588,148, Mar. 4.

Morrison, Montford, Upper Montclair, N. J. Vacuum tube oscillator system. 2,587,750, Mar. 4.

Morton, Glenn R.: *See*— Walker, Le Roy E., and Morton.

Morton Salt Company, assignee: *See*— Farnsworth, William H.

Morway, Arnold J., Rahway, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Lubricating compositions. 2,588,273, Mar. 4.

Mössmer, Viktor, Seewalchen-on-the-Attersee, assignor to Lenzinger Zellwolle-und Papierfabrik Aktiengesellschaft, Lenzing-Agerzell, Austria. Textile intermediate product and manufacturing the same. 2,587,877, Mar. 4.

Mueller, Charles W., St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company. Sewing machine. 2,588,274, Mar. 4.

Mueller, Robert A., assignor to Gray Tool Company, Houston, Tex. Valve. 2,588,149, Mar. 4.

Mullings, John E.: *See*— Jahn, Fred S., Carmien, and Mullings.

Murphy, Bernard J., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Adjustable height vehicle seat. 2,587,751, Mar. 4.

Murray, Forrest H.: *See*— Straus, Henry A., Bell, and Murray.

Musschoot, Albert, Park Ridge, and H. W. Regensburger, Chicago, Ill., assignors to Link-Belt Company. Feeder for oscillating conveyers. 2,588,030, Mar. 4.

Musselman, John M., South Euclid, and H. P. Lankelma, Shaker Heights, assignors to The Standard Oil Company, Cleveland, Ohio. Lubricants and additives for lubricating oils and greases. 2,587,642, Mar. 4.

Muster, Harold B.: *See*— Allen, Edwin L., De Vito, and Muster.

Myers, Harold C., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Deasphalting mixtures of hydrocarbons. 2,587,643, Mar. 4.

Nachtrieb, Norman D., Chicago, Ill. Leveling instrument. 2,587,878, Mar. 4.

Nadal, Alessandro, assignor of two-thirds to R. and P. Abel (Abeles), Rome, Italy. Screw closure with retaining means for containers. 2,588,275, Mar. 4.

Naillon, Jacob D., Oakland, Calif. Block lifter. 2,588,276, Mar. 4.

Nash, Paul H., White Deer, Tex. Apparatus for liquefying paraffin in wells. 2,587,879, Mar. 4.

Nash, Thomas D., administrator: *See*— Johanson, Elof.

National Brass Company, assignee: *See*— Ter Meer, Herman, and Peterson.

National Cash Register Company, The, assignee: *See*— Dudis, Charles G.

National Cylinder Gas Company, assignee: *See*— Chouinard, Alfred F., and Tylutki.

National Lead Company, assignee: *See*— Kopelman, Bernard, and Wainer.

National Rubber Machinery Company, assignee: *See*— Van Ranst, Cornelius W.

National Tool Salvage Company, assignee: *See*— Doepker, Ervin C.

Navy, United States of America as represented by the Secretary of the, assignee: *See*— Griggs, David T. Haworth, Leland J.

Neergaard, Anders N., and A. C. Steenberg, Copenhagen, Denmark. Conditioning machine. 2,588,277, Mar. 4.

Nelson, Arthur W., and T. H. Alfreds, Park Ridge, Ill., assignors to Mapes Consolidated Manufacturing Company, Griffith, Ind. Egg packing material. 2,588,150, Mar. 4.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind head bar organization. 2,587,752, Mar. 4.

Nelson, John D., J. J. Pyle, and J. W. Underwood, Pittsfield, Mass., assignors to General Electric Company. Apparatus for producing uniform foam structures. 2,588,151, Mar. 4.

Nelson, Lewen R., Peoria, Ill. Hearth kit. 2,587,880, Mar. 4.

New Britain Machine Company, The, assignee: *See*— Rockwell, Edward A.

Newman Exclusive Gift Mfrs., Inc., assignee: *See*— Newman, Richard.

Newman, Louis B., Chicago, Ill. Hydrotherapy tank. 2,587,644, Mar. 4.

Newman, Richard, Forest Hills, assignor to Newman Exclusive Gift Mfrs., Inc., New York, N. Y. Note paper ejecting address book. 2,588,152, Mar. 4.

New Plastic Corporation, assignee: *See*— Jahn, Fred S., Carmien, and Mullings.

Newton, Amos S., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Making metal hydrides. 2,588,153, Mar. 4.

Niedszwecki, Theodore: *See*— Holder, Arthur, and Niedszwecki.

Nish, Norman J.: *See*— Ferrier, Herman, and Nish.

Noerr, Floyd B., Lewiston, Pa. Apparatus for transporting beams. 2,588,278, Mar. 4.

North American Rayon Corporation, assignee: *See*— Biey, Rudolph S.

North Bohemian Machine Works and Foundries, National Corporation, assignee: *See*— Bily, Theodor.

Northwestern Steel and Wire Company, assignee: *See*— Vorderstrasse, Rudolph C.

Oakes, Earle D., Drexel Hill, assignor to A. Lewy, Philadelphia, Pa. Folding and stacking chair. 2,587,881, Mar. 4.

Oakley, Gilbert F., assignor to Illinois Railway Equipment Company, Chicago, Ill. Lading tie fastener. 2,587,882, Mar. 4.

O'Brien, James H., assignor to Packard Motor Car Company, Detroit, Mich. Rotary pump. 2,588,032, Mar. 4.

O'Brien, John C., and H. C. Sibley, Jr., assignors to General Railway Signal Company, Rochester, N. Y. Radio communication system. 2,588,031, Mar. 4.

O'Connor, Buell, and F. G. Pearce, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Purifying alcohols. 2,587,753, Mar. 4.

Oestnaes, Victor L., Westfield, assignor to American Gas Accumulator Company, Elizabeth, N. J. High-intensity lighting unit. 2,588,154, Mar. 4.

Öfverholm, Håkan, Vasteras, and H. Forssell, Ludvika, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Rectifier connection. 2,588,155, Mar. 4.

O'Gatty, James A., Los Angeles, Calif. Combination razor and hair trimmer. 2,588,033, Mar. 4.

Ogden, Albert B., Franklin, Pa., R. A. Butcosk, Jackson Heights, N. Y., and R. C. Williams, Franklin, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Manufacture of block grease. 2,588,326, Mar. 4.

Ogilvy, Robert C., assignor to The Leece-Neville Company, Cleveland, Ohio. Alternator and rectifier mounting. 2,588,156, Mar. 4.

O'Halloran, Rosemary, Elizabeth, N. J., assignor to Standard Oil Development Company. Lubricating composition. 2,588,279, Mar. 4.

O'Halloran, Rosemary, Elizabeth, and J. J. Kolfenbach, Somerville, N. J., assignors to Standard Oil Development Company. Lubricating grease. 2,588,280, Mar. 4.

Olday, Fred L., Scranton, assignor to Olday Fur Machine Co. Inc., Philadelphia, Pa. Fur sewing machine. 2,588,281, Mar. 4.

Olday Fur Machine Co. Inc., assignee: *See*— Olday, Fred L.

Olson, Andrew R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Relief valve. 2,588,157, Mar. 4.

Olsson, Henrik A., Malmo, Sweden. Apparatus for the production of prints. 2,587,883, Mar. 4.

O'Neil, Charles S., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Laundry drier. 2,587,645, Mar. 4.

O'Neil, Charles S., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Drier. 2,587,646, Mar. 4.

O'Neil, William T., Glendale, assignor to Gilfillan Bros., Inc., Los Angeles County, Calif. Electronic indicator and viewing means for two variables. 2,588,035, Mar. 4.

O'Neill, George F., Jr., Yonkers, N. Y. Combined tobacco smoking pipe and igniter. 2,588,034, Mar. 4.

O'Quinn, Wilbur D., assignor of one-half to J. H. Ferguson, Wilmington, N. C. Toy pistol. 2,588,036, Mar. 4.

Orchin, Milton: *See*— Wender, Irving, and Orchin.

Orton Crane & Shovel Company, assignee: *See*— Orton, Philo A., Sr.

Orton, Philo A., Sr., Lincolnwood, assignor to Orton Crane & Shovel Company, Chicago, Ill. Tagline mechanism. 2,588,037, Mar. 4.

Orwin, Olaf J. B., assignor to Fisher & Ludlow Limited, Birmingham, England. Conveyer. 2,588,282, Mar. 4.

Osborn, Howard E., Michigan City, Ind. Floor structure for railway freight cars. 2,587,754, Mar. 4.

Osgood, Charles F., Franklin, Pa., assignor to Joy Manufacturing Company. Material loading apparatus. 2,588,283, Mar. 4.

Otis, Herbert C., Dallas, Tex. Fluid pressure differential responsive cutoff valve. 2,588,284, Mar. 4.

Owens-Corning Fiberglas Corporation, assignee: *See*— Borkland, Gustave W.

Packard, David, Los Altos, and N. B. Schrock, assignors to Hewlett-Packard Company, Palo Alto, Calif. Frequency measuring or indicating apparatus. 2,587,755, Mar. 4.

Packard Motor Car Company, assignee: *See*— McFarland, Forest R., Misch, and Foley. O'Brien, James H.

Pagenhardt, Leonard C., Roanoke, Va. Air actuated chance device. 2,588,038, Mar. 4.

Pallette, Gordon W., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Ion source. 2,587,647, Mar. 4.

Palmér, Per A., Stockholm, Sweden. Sound insulation board. 2,587,884, Mar. 4.

Palmisano, Ignazio H., Chicago, Ill. Cord guide for Venetion blind tilt rails. 2,587,756, Mar. 4.

Panter, Carl, assignor to Haughton Elevator Company, Toledo, Ohio. Resilient stop for screw elevators. 2,587,757, Mar. 4.

Paper Patents Company, assignee: *See*— Heller, Harold H., and Saunders. Heller, Harold H., and Shirriff.

Para-Lux Products Company, assignee: *See*— Kohl, William R., and Iverson.

Parke, Davis & Company, assignee: *See*— Moersch, George W., and Moore.

Parker Pen Company, The, assignee: *See*— Zodtner, Harlan H.

Parkinson, David B.: *See*— Lovell, Clarence A., and Parkinson.

Patchett, Roy C.: *See*— Hutchinson, Harry A., and Patchett.

Patent License Corporation, assignee: *See*— Arenberg, Albert L., and Zimmerman.

Pavelka, Joseph, assignee: *See*— McCullough, Paul J.

Paxson, Homer D., Salem, Ohio. Expansible mandrel. 2,587,885, Mar. 4.

Payson, Peter, assignor to Crucible Steel Company of America, New York, N. Y. High temperature high strength alloys. 2,587,613, Mar. 4.

Pearce, Frank G.: *See*— O'Connor, Buell, and Pearce.

Peirce, Thomas H., assignor to H. A. King, Detroit, Mich. Rubber cushion drive coupling. 2,588,158, Mar. 4.

Pel'at-Finet, Jean L., and M. Riffet, Lyon, France, assignors to R. O. B. E. SA, Geneva, Switzerland. Twisting spindle. 2,587,758, Mar. 4.

Pelouch, James J., assignor, by mesne assignments, to H. C. Schott, Cleveland, Ohio. Air bleeder for vehicle lifts. 2,588,285, Mar. 4.

Penchoen, Henry A., assignor to Harter Corporation, Sturgis, Mich. Base or pedestal for chairs. 2,587,886, Mar. 4.

Peoples First National Bank & Trust Company, assignee: *See*—
Henderson, Albert.

Pepi, John, Quincy, Mass. Snow removal apparatus. 2,588,039, Mar. 4.

Perez, Wilfredo, New York, N. Y. Gyroscopic toy. 2,588,040, Mar. 4.

Perfection Stove Company, assignee: *See*—
Kirkpatrick, Joseph R.
Resek, Marc, Dahlstrom, and Bolz.

Perfex Corporation, assignee: *See*—
Deubel, Justin A.

Perkins, Melvin A., and M. Couper, Wilmington, Del., assignors to the United States of America as represented by the United States Atomic Energy Commission. Separation of metal values in fluoride compositions. 2,588,041, Mar. 4.

Perwolf, Felix, Vienna, Austria, assignor to Sortex A. G., Zurich, Switzerland. Card index. 2,588,286, Mar. 4.

Pestarini, Joseph M., Staten Island, N. Y. Electric power system. 2,587,648, Mar. 4.

Peterson, Albert C., Park Ridge, and W. O. Will, Oak Park, assignors to Union Special Machine Company, Chicago, Ill. Sewing machine and drive with support therefor. 2,587,887, Mar. 4.

Peterson, William W.: *See*—
Ter Meer, Herman, and Peterson.

Phelps, Byron E.: *See*—
Dickinson, Arthur H., Phelps, and Bergfors.

Philco Corporation, assignee: *See*—
Ammlung, Louis C., Jr.

Philips Laboratories, Inc., assignee: *See*—
Rittner, Edmund S., Grace, Fine, and Beutel.

Phillips, Chester S., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo. Centrifugal actuator. 2,588,159, Mar. 4.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Composite piston ring assembly. 2,587,888, Mar. 4.

Phillips Petroleum Company, assignee: *See*—
Box, E. O., Jr.
Olson, Andrew R.
Stanley, Clyde P.
Sullenger, Henry E.
Weber, Louis J., and Ringo.

Photo Research Corporation, assignee: *See*—
Crandell, Frank F.
Crandell, Frank F., and Heidt.

Picton, Thomas D., Rockport, Tex. Screen stretching tool. 2,587,889, Mar. 4.

Pierce, Lloyd L., and E. J. White, assignors to The Gates Rubber Company, Denver, Colo. Tire patch. 2,587,759, Mar. 4.

Pines, Herman: *See*—
Ipatieff, Vladimir N., and Pines.

Pirelli Societa Per Azioni, assignee: *See*—
Belloni, Angelo.

Pitney-Bowes, Inc., assignee: *See*—
Rouan, Francis J.

Pittsburgh Reflector Company, assignee: *See*—
Stubbs, Walter W.

Podskalsky, Emil, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia. Impulse metering device. 2,588,287, Mar. 4.

Pohanka, Joseph, Oak Park, Ill. Dental light. 2,588,288, Mar. 4.

Poirier, Ernest A., Waterville, Maine. Automatic consistency regulator for pulp and paper stocks. 2,587,760, Mar. 4.

Poltrock, Edward W., Chicago, Ill. Wrist watch winding device. 2,588,042, Mar. 4.

Poole, Arthur B., Harwinton, Conn. Electric alarm clock. 2,587,890, Mar. 4.

Pope, Francis, Bayside, N. Y. Selective turbopropeller jet power plant for aircraft. 2,587,649, Mar. 4.

Post, Ernest R.: *See*—
Custis, James B. G., and Post.

Post, Ernest R., Washington, D. C. Needle holding means for hypodermic needle honing devices or the like. 2,588,160, Mar. 4.

Potthoff, William C., Cuyahoga Falls, Ohio, assignor to Erie Manufacturing Co., Erie, Pa. Magnetic pulley. 2,587,891, Mar. 4.

Pouliot, Pierre, Jacksonville, Fla. Ventilator for cold storage chambers. 2,588,289, Mar. 4.

Precision Plastic Products, Inc., assignee: *See*—
Vigon, Jule.

Prestole Corporation, assignee: *See*—
Kest, Harold W.

Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,587,892, Mar. 4.

Pridy, Whetstine B., and R. C. Howard, Long Beach, Calif. Pipe chuck. 2,587,893, Mar. 4.

Probst, Karl K., Lansing, Mich. Transmission mechanism. 2,588,161, Mar. 4.

Prouty, Robert E.: *See*—
Talmadge, Palmer C., Zartman, and Prouty.

Purdue Research Foundation, assignee: *See*—
Lark-Horovitz, Karl, Benzer, and Davis.
Lark-Horovitz, Karl, and Whaley.

Pyle, James J.: *See*—
Nelson, John D., Pyle, and Underwood.

Pyle, John V., Pleasantville, assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Means to separate water and foreign substances from steam 2,587,761, Mar. 4.

Pyroban Developments Limited, assignee: *See*—
Reece, Michael P.

Quaker Stretcher Company, assignee: *See*—
Unwin, Kenneth J.

Qualitex Societe Dunod et Cie, assignee: *See*—
Dunod, Jean.

Quercia, Marcel, Paris, France. Yoke for pyrophoric lighters. 2,587,894, Mar. 4.

Quinn, Fred A., Jr., and Max Tryon, Washington, D. C. Bubble blowing device. 2,587,895, Mar. 4.

R. O. B. E. S. A., assignee: *See*—
Pellat-Finet, Jean L., and Riffet.

Rabinowitz, Irving and M. S., Brooklyn, N. Y. Combined punch and cutter. 2,588,043, Mar. 4.

Rabinowitz, Mildred S.: *See*—
Rabinowitz, Irving and M. S.

Radio Corporation of America, assignee: *See*—
Law, Harold B.
Webster, William M., Johnson, and Malter.

Raehrs, Emery C., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Broaching machine. 2,587,896, Mar. 4.

Raley, John H.: *See*—
Cheney, Harry A., and Raley.

Rayfield, Thomas G., Greenville, S. C. Speed changing device for spinning. 2,587,897, Mar. 4.

Reece, Michael P., London, assignor, by mesne assignments, to Pyroban Developments Limited, Manchester, England. Fire alarm apparatus. 2,587,762, Mar. 4.

Reelshav Corporation, assignee: *See*—
Jones, Georges D., and Miller.

Reerink, Engbert H., and J. Van der Vliet, Weesp, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Preparing stable emulsions of lipoidic substances in water. 2,588,290, Mar. 4.

Regensburger, Henry W.: *See*—
Musschoot, Albert, and Regensburger.

Reichard, Wade H., assignor to General Railway Signal Company, Rochester, N. Y. Rectified alternating current type coded track circuit signaling system. 2,588,044, Mar. 4.

Reid, John L., San Francisco, Calif. Louver. 2,587,898, Mar. 4.

Reiner, Robert, Inc., assignee: *See*—
Lambach, Fritz.

Reisert, August D.: *See*—
Fox, Alexander P., and Reisert.

Republic Boiler Corporation, assignee: *See*—
Hosking, Homer L.

Republic Steel Corporation, assignee: *See*—
Darner, Frederic M.

Research Corporation, assignee: *See*—
Kendal, Edward C.

Resek, Marc., Cleveland Heights, J. A. Dahlstrom, Bay Village, and A. Bolz, Chagrin Falls, assignors to Perfection Stove Company, Cleveland, Ohio. Liquid fuel burning unit of the bowl or pot type. 2,588,045, Mar. 4.

Rhodes, Fred C., Inglewood, Calif. Live bait box. 2,587,899, Mar. 4.

Rice Engineering Corporation, assignee: *See*—
Kennon, Lorenzo.

Ricker, Norman H., Tulsa, Okla., assignor to Standard Oil Development Company. Distortionless seismic wave filter. 2,588,291, Mar. 4.

Ridgely, Richard, Bayside, N. Y. Cooking device. 2,588,046, Mar. 4.

Riffet, Marcel: *See*—
Pellat-Finet, J. L., and Riffet.

Riga, Ivo J. and J. P., Jonesboro, Ark. High-speed drive for bicycles. 2,588,047, Mar. 4.

Riga, James P.: *See*—
Riga, Ivo J. and J. P.

Riggio, Peter F., Woodside, N. Y. Magazine tool handle. 2,588,162, Mar. 4.

Rimple, Edward J., assignor to Rimple Manufacturing Co., Santa Clara, Calif. Adjustable hitch for direct connected implements. 2,587,763, Mar. 4.

Rimple Manufacturing Co., assignee: *See*—
Rimple, Edward J.

Ringo, Luther D.: *See*—
Weber, Louis J., and Ringo.

Risdon Manufacturing Company, The, assignee: *See*—
Manville, Henrietta P.

Rist, Carl E., H. A. Davis, and I. A. Wolff, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Defatting starch. 2,587,650, Mar. 4.

Ristenpart, Chester H., Berkeley, and J. F. Detmayer, Madrone, Calif.; said Detmayer assignor to said Ristenpart. Drawer for typewriters, including elevating typewriter supports. 2,588,163, Mar. 4.

Rittner, Edmund S., White Plains, F. E. Grace, Brooklyn, S. Fine, New York, and G. A. Beutel, Pearl River, assignors to Philips Laboratories, Inc., Irvington on Hudson, N. Y. Electron switching tubes and circuits therefor. 2,588,292, Mar. 4.

Roberts, Frederick W., Fairfield, and F. L. Franz, West Haven, assignors to Dictaphone Corporation, Bridgeport, Conn. Recorder head. 2,588,327, Mar. 4.

Roberts, James A., H. R. Fischer, and M. P. D'Haem, Detroit, Mich., assignors to Chicago Pneumatic Tool Company, New York, N. Y. Pneumatically powered hydraulic pump. 2,588,164, Mar. 4.

Robertshaw-Fulton Controls Company, assignee: *See*—
Branson, Charles D.

Robiette, Alfred G. E., London, England. Heat-treatment of metals. 2,587,900, Mar. 4.

Robinson, Eugene, Los Angeles, Calif. Valve mounting and operating means for toilets. 2,587,901, Mar. 4.

Robinson, Jerome A., Yonkers, and V. Agnifilo, New Rochelle, N. Y. Guide spring for combination storm windows and screens. 2,587,902, Mar. 4.

Robinson, Ronald R.: *See*—
Burks, George E., and Robinson.

Rockwell, Edward A., Shaker Heights, Ohio, assignor to The New Britain Machine Company, New Britain, Conn. Pressure converter system and apparatus therefor. 2,588,048, Mar. 4.

Roe, A. V., Canada Limited, assignee: *See*—
Moore, John D., and Wood.

Roe, Frank L., Evanston, Ill. Single piece kite. 2,588,293, Mar. 4.

Roethell, Bruno E.: *See*—
Barr, Frank T., Roethell, and Scharmann.

Rohm & Haas Company, assignee: *See*—
Dawson, John W., and Croxall.

Rohrback, Fred H., Kansas City, Kans. Rhubarb cleaning machine. 2,587,764, Mar. 4.

Rohrer, Frederick E., Paola, Kans. Auxiliary furrow opener. 2,587,765, Mar. 4.

Rojas, Floricel A., New York, N. Y. Electrodeposition of chromium. 2,587,651, Mar. 4.

Rood, Clarence J., Fergus Falls, Minnn. Oil filter. 2,587,903, Mar. 4.

Roper, Geo. D., Corporation, assignee: *See*—
Abrams, Victor R.

Roscher, Charles D.: *See*—
Corn, Belmont, Jr., and Roscher.

Rosenkranz, George, and S. Kaufmann, assignors to Syntex, S. A., Mexico City, Mexico. Production of 17-hydroxysteroids. 2,588,294, Mar. 4.

Rossmann, Peter F., Depew, N. Y., assignor, by mesne assignments, to Hupp Corporation, Cleveland, Ohio. Electric seat adjuster and the like. 2,588,165, Mar. 4.

Rostine, Carl A., Gardena, Calif., assignor, by mesne assignments, to John Wood Manufacturing Company, Inc., New York, N. Y. Braking mechanism for hose reeling apparatus. 2,587,652, Mar. 4.

Rouan, Francis J., assignor to Pitney-Bowes, Inc., Stamford, Conn. Disconnectable transfer mechanism for settable registers. 2,587,766, Mar. 4.

Roubal, Alexander J., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Detachable hammer head for rotary beaters. 2,587,767, Mar. 4.

Roughsedge, Robert H., Ramsey, N. J., and H. G. Lustig, New York, N. Y., assignors to Celanese Corporation of America. Spinning apparatus. 2,587,768, Mar. 4.

Rowe, Malcolm A., Comer, assignor to Rowe Warehouse & Fertilizer Company, Athens, Ga. Bale stacking and unstacking machine. 2,587,769, Mar. 4.

Rowe, Paul H., assignor to Maas-Rowe Electromusic Corporation, Los Angeles, Calif. Apparatus for producing chime tones and method of tuning musical bars. 2,588,295, Mar. 4.

Rowe Warehouse & Fertilizer Company, assignee: *See*—
Rowe, Malcolm A.

Rowley, Russell A., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Comparing device. 2,588,049, Mar. 4.

Ruehle, Archie E.: *See*—
Mallinckrodt, Edward, Jr., and Ruehle.

Ruoff, George M.: *See*—
Bellezza, Russell G., and Ruoff.

Russell, George F., Jr., Baton Rouge, La., assignor to Aluminum Company of America, Pittsburgh, Pa. Gas treatment and apparatus therefor. 2,588,296, Mar. 4.

Rust, David J.: *See*—
Jensen, Jack H., and Rust.

Rutherford, Stephen W., West Des Moines, Iowa. Display sign. 2,588,050, Mar. 4.

Ruze, John, Asbury Park, N. J. Angle comparator. 2,587,653, Mar. 4.

Ryan, Cornelius J., Tottenville, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Esterification of monohydric ether alcohols. 2,587,904, Mar. 4.

Ryde, John W.: *See*—
Jones, Douglas E., and Ryde.

Ry-Lock Company, Ltd., assignee: *See*—
Jensen, Jack H., and Rust.

Sacchini, Columbus R., Willoughby, assignor to The Marquette Metal Products Company, Cleveland, Ohio. Variable pitch propeller. 2,588,166, Mar. 4.

Sammons, Francis W., White Plains, N. Y. Attack defeating combination lock. 2,587,654, Mar. 4.

Sangamo Electric Company, assignee: *See*—
Fog, Ivar K.

Sänger, Otto: *See*—
Weissenberg, Gustav, and Sänger.

Sani-Tread Company Incorporated, assignee: *See*—
Lippitt, Stephen W.

Sapers, Ira: *See*—
Cook, Alton A., and Sapers.

Saunders, George H.: *See*—
Heller, Harold H., and Saunders.

Saville, Arthur K., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Printing textile fabrics with vat dyes. 2,587,905, Mar. 4.

Scharmann, Walter G.: *See*—
Barr, Frank T., Roethell, and Scharmann.

Schatz, Hugo E., Detroit, Mich. Fishing net. 2,587,770, Mar. 4.

Schenley Laboratories, Inc., assignee: *See*—
Schmidt, Hans.

Scheppe, John J., Trenton, N. J. Chute assembly for automatic pin setting machines. 2,588,297, Mar. 4.

Schermuly, Alfred J.: *See*—
Schermuly, Conrad D., A. J., and C.

Schermuly, Charles: *See*—
Schermuly, Conrad D., A. J., and C.

Schermuly, Conrad D., A. J., and C., Parkgate, Newdigate, England. Striker for igniters. 2,588,167, Mar. 4.

Schettler, William R., Lawrence Park, Pa., assignor to General Electric Company. Brake rigging. 2,588,168, Mar. 4.

Schick, Frederick A., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Track frame mounting for crawler tractors. 2,588,328, Mar. 4.

Schmid, Walter, and J. A. Simkus, assignors to Stewart-Warner Corporation, Chicago, Ill. Apparatus for forming lubrication fittings. 2,588,298, Mar. 4.

Schmidt, Hans, Wuppertal-Vohwinkel, Germany, assignor to Schenley Laboratories, Inc., New York, N. Y. Preparation of hydroxy-carboxylic-acids. 2,587,906, Mar. 4.

Schmitten, Donald C.: *See*—
Embree, Earl P., and Schmitten.

Schnellmann, Oskar, Zurich, assignor to Machine Tool Works, Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland. Machine for manufacturing match splints. 2,587,655, Mar. 4.

Schoenbaum, Alexander W., and J. T. Ashworth, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y. Apparatus for determining moisture content of tobacco. 2,587,771, Mar. 4.

Schoenlaub, Robert A., assignor to Sylvester & Company, Cleveland, Ohio. Recovering magnesia. 2,587,656, Mar. 4.

Schonitzer, Rudolph I., assignee: *See*—
Allen, Edwin L., De Vito, and Muster.

Schott, Harold C., assignee: *See*—
Pelouch, James J.

Schrock, Norman B.: *See*—
Packard, David, and Schrock.

Schroeder, Herman C.: *See*—
Breit, Robert J., and Schroeder.

Schroeder, Herman E., Kennett Square, Pa., and J. Deinet, Glasboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Vat dyes of the anthraquinone-azole series. 2,587,908, Mar. 4.

Schroeder, John A., A. W. Bower, and M. Graber, Denver, Colo. Self-locking drive type rivet. 2,587,907, Mar. 4.

Schulte, Edward, and P. C. Herzog, assignors to The Glidden Company, Cleveland, Ohio. Emulsion coating compositions and preparing same. 2,587,657, Mar. 4.

Schultz, Don, Los Angeles, Calif. Signal system for elevators. 2,588,299, Mar. 4.

Scott & Williams, Incorporated, assignee: *See*—
Bristow, Paul W.

Seamless Rubber Company, The, assignee: *See*—
Madsen, Paul S.

Sears, Roebuck and Co., assignee: *See*—
Aasland, Byron T., and Webster.

Seavey, Gordon C.: *See*—
Horsley, Caperton B., and Seavey.

Seligman, Arthur, Newark, N. J. Water cooler. 2,587,772, Mar. 4.

Sell, Frank A.: *See*—
Sell, Mary W. and F. A.

Sell, Mary W. and F. A., Los Angeles, Calif. Pan lid to absorb grease. 2,587,773, Mar. 4.

Shack, Andrew T., Brentwood, and W. L. Zemberry, Pittsburgh, Pa., assignors to United States Steel Company. Gauging and marking device. 2,587,774, Mar. 4.

Shand, Edwin W.: *See*—
Teter, John W., and Shand.
Wayo, Stephen J., Teter, and Shand.

Shapiro, Harry S.: *See*—
Bachil, Herman, and Shapiro.

Shappirio, Sol, Washington, D. C. Azide modified fuels and lubricants. 2,587,581, Mar. 4.

Sharman, Eric P., and D. L. Wilson, Coventry, assignors to Courtaulds Limited, London, England. Production of cellulose esters. 2,588,051, Mar. 4.

Shawinigan Chemicals Limited, assignee: *See*—
Germain, Leo M.

Shea, William T., Buffalo, N. Y. Dental impression device. 2,588,169, Mar. 4.

Sheldon, Donald F., and G. F. Jenkins, Minneapolis, Minn. Apparatus for determining the speed of objects. 2,587,775, Mar. 4.

Shell Development Company, assignee: *See*—
Barnum, Emmett R.
Cheney, Harry A., and Raley.
Garner, Philip J., and Short.
Harman, Denham.
Keulemans, Aloysius I. M.

Shellmar Products Corporation, assignee: *See*—
Sherman, Francis H.

Shepherd, Judson O., Atlanta, Ga., assignor to American Telephone and Telegraph Company. Control circuit for telephone systems. 2,588,052, Mar. 4.

Sherman, Elizabeth M., executrix: *See*—
Sherman, Francis H.

Sherman, Francis H., deceased; by E. M. Sherman, executrix, Palmer, Mass., assignor to Shellmar Products Corporation, Chicago, Ill. Molded pulp egg carton. 2,587,909, Mar. 4.

Shirriff, Robert G.: *See*—
Heller, Harold H., and Shirriff.

Short, Henry N.: *See*—
Garner, Philip J., and Short.

Shulman, Alexander G., Los Angeles, Calif. T-tube for controlled intubation and drainage of the common bile duct. 2,587,910, Mar. 4.

Shure Brothers, Incorporated, assignee: *See*—
Bauer, Benjamin B.

Sibley, Henry C., Jr.: *See*—
O'Brien, John C., and Sibley.

Sider, Frances, New York, N. Y. Foundation garment. 2,587,911, Mar. 4.

Signal Scale and Manufacturing Company, Inc., assignee: *See*—
Sublett, Lester G.

Sillers, Thomas G. A., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Pneumatic control. 2,588,329, Mar. 4.

Simkus, John A.: *See*—
Schmid, Walter, and Simkus.

Simonds Saw and Steel Company, assignee: *See*—
Matthewman, Rodger B.

Simpson, Paul F., Washington, assignor to The Autoyre Company, Incorporated, Oakville, Conn. Hinged fixture supporting bracket. 2,587,912, Mar. 4.

Sinclair Refining Company, assignee: *See*—
Bauer, Oscar W., and Teter.
Teter, John W., and Shand.
Wayo, Stephen J., Teter, and Shand.

Sieness, Wallace A., Seattle, Wash. Fishing plug. 2,587,658, Mar. 4.

Siusher, Frank, Carpinteria, Calif., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for buffing flexible articles. 2,587,776, Mar. 4.

Smith, A. O., Corporation, assignee: *See*—
Gruetjen, Frederick A.

Smith, Alfred P.: *See*—
Smith, Chadwick P. and A. P.

Smith, Chadwick P. and A. P., Charlotte, N. C. Thread guide for creels. 2,588,053, Mar. 4.

Smith, Charles J., and F. J. Thoms, assignors to Ford Motor Company, Dearborn, Mich. Engine mount. 2,588,171, Mar. 4.

Smith, Charles O., Kansas City, Mo. Artificial fishing bait. 2,588,300, Mar. 4.

Smith, Chester W., assignor to Detrex Corporation, Detroit, Mich. Cleaning and rustproofing composition. 2,587,777, Mar. 4.

Smith, Clarence E., assignor to Graflex, Inc., Rochester, N. Y. Film winding control for cameras. 2,588,054, Mar. 4.

Smith, Edward A., Lansing, Mich. Detachable dust mop construction. 2,587,913, Mar. 4.

Smith, Mike F., Biwabik, Minn. Oil can drain rack. 2,587,779, Mar. 4.

Smith, Nathan L., Indian Head, Md. Trifluoromethyl phenothiazine. 2,587,660, Mar. 4.

Smith, Nathan L., Indian Head, Md. Benzophenothiazine nitriles. 2,587,661, Mar. 4.

Smith, Nathan L., Indian Head, Md. 3-isopropoxy phenothiazine. 2,587,662, Mar. 4.

Smith, Paul V., Jr.: *See*—
Morrell, Charles E., Carlson, and Smith.
Morway, Arnold J., and Smith.

Smith, Raymond L., Arlington, Va. Typewriter keyboard. 2,587,778, Mar. 4.

Smith, Spurgeon O., Columbus, Ohio. Artificial lure. 2,588,055, Mar. 4.

Smith, Thad W.: *See*—
Githens, Otto W., Smith, and Whitaker.

Smith, William A., Pittsburgh, Pa. Secondary battery. 2,588,170, Mar. 4.

Smith, William C., Brentwood, Md. Adjustable offset ladder. 2,587,659, Mar. 4.

Smith, William J., Point Piper, New South Wales, Australia, assignor to Industrial Developments Limited, Singapore. Making glass. 2,587,914, Mar. 4.

Smits, Wytze B., Voorburg, assignor to Smitsvonk N. V., The Hague, Netherlands. Electrical ignition system. 2,587,780, Mar. 4.

Smitsvonk, N. V., assignee: *See*—
Smits, Wytze B.

Snavely, Benjamin L.: *See*—
Brown, John, Snavely, and Atanasoff.

Snavely, Benjamin L., Takoma Park, and J. V. Atanasoff, Fulton, Md. Bus bar assembly including longitudinal solder-filled recess. 2,588,172, Mar. 4.

Snyder, Leland H., Chicago, Ill., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Centrifugal speed control for vacuum cleaners. 2,588,301, Mar. 4.

Societa per Azioni Officine Galileo, assignee: *See*—
Franceschini, Lorenzo.

Societe Anonyme des Forges et Chantier de la Mediterranee, assignee: *See*—
Veyssiere, Henri.

Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, assignee: *See*—
Touvay, Robert R. G.

Societe anonyme dite: Compagnie des Freins et Signaux Westinghouse, assignee: *See*—
Mataré Hérbert F.

Society called Societe Cri-Dan, assignee: *See*—
Castelli, Xavier F.

Socke, John E., Pelham Manor, assignor to American Can Company, New York, N. Y. Sealing head mechanism for closing and sealing bags and flexible containers. 2,587,663, Mar. 4.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Myers, Harold C.
Ogden, Albert B., Butcosk, and Williams.
Sturgis, Robert P.

Somerville, Gareth G., Pittsfield, Mass., assignor to General Electric Company. Making magnetic cores. 2,588,173, Mar. 4.

Sonic Research Corporation, assignee: *See*—
Horsley, Caperton B., and Seavey.

Sonneborn, L., Sons, Inc., assignee: *See*—
Miley, Hunter.

Sortex A. G., assignee: *See*—
Perwolf, Felix.

Špaček, Antonín, Prague-Branik, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia. Method of and device for transforming amplitude modulation into phase modulation. 2,588,302, Mar. 4.

Spaeth, Irvin J., assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway brake beam. 2,587,915, Mar. 4.

Specialties Development Corporation, assignee: *See*—
Squier, Donald R.

Speedwheel N. V., assignee: *See*—
Geesink, Jacobus J.

Sperry Corporation, The, assignee: *See*—
Ayres, Waldemar A.
Brewer, Alexander F.

Sperry Products, Inc., assignee: *See*—
Straehl, Robert N.

Spielberg, Sam S., New York, N. Y., assignor to Brooklyn Hospital Equipment Co. Inc., Johnstown, Pa. Foot-operated clutch mechanism for physician's examination tables. 2,588,174, Mar. 4.

Spransy, Brower C.: *See*—
Cameron, Iverson L., and Spransy.

Squier, Donald R., Pompton Plains, assignor to Specialties Development Corporation, Belleville, N. J. Heat detecting cable. 2,587,916, Mar. 4.

Stamm, Robert F.: *See*—
Erickson, John O., Stamm, and Libby.

Standard Manifold Company, assignee: *See*—
Fleischmann, Lester K.

Standard Oil Company, assignee: *See*—
Debo, Delmer G.
Field, Edmund, and Hill.

Standard Oil Company, The, assignee: *See*—
Hughes, Everett C., and Bartleson.

Standard Oil Company, The, assignee: *See*—
Musselman, John M., and Lankelma.

Standard Oil Development Company, assignee: *See*—
Arundale, Erving, and Thorn.
Barr, Frank T., Roethell, and Scharmann.
Dawson, Oliver H. P.
Gohr, Edwin J.
Lynch, Charles S., and Corner.
Mercer, Kenneth K., and Catterall.
Miller, Joe, and Workman.
Morrell, Charles E., Carlson, and Smith.
Morway, Arnold J., and Smith.
O'Halloran, Rosemary.
O'Halloran, Rosemary, and Kolfenbach.
Ricker, Norman H.
Walker, Richard P.

Standard-Thomson Corporation, assignee: *See*—
Woods, John E.

Stanfield, James R., Castle Bromwich, and L. N. Hughes, Rednal, assignors to The Austin Motor Company Limited, Birmingham, England. Pivoted ventilator window of motor road vehicles. 2,587,781, Mar. 4.

Stanley, Clyde P., Phillips, Tex., assignor to Phillips Petroleum Company. Fractionator reflux control method. 2,588,303, Mar. 4.

Stanolind Oil and Gas Company, assignee: *See*—
O'Connor, Buell and Pearce.

Stark, Harold W., Marinette, Wis. Dental tray. 2,587,782, Mar. 4.

Stearn, William T., Cumberland, Md., assignor to Celanese Corporation of America, New York, N. Y. Starter handle. 2,587,783, Mar. 4.

Steenberg, Axel C., *See*—
Neergaard, Anders N., and Steenberg.

Sterling Electronic Door Control Corporation, assignee: *See*—
McNinch, James N.

Stewart, Seymour F., Shaker Heights, and A. D. Gilchrist, Lyndhurst, assignors to The Leece-Neville Company, Cleveland, Ohio. Inductor alternator. 2,588,175, Mar. 4.

Stewart-Warner Corporation, assignee: *See*—
Schmid, Walter, and Simkus.

Stone Manufacturing Co., assignee: *See*—
Stone, Philip G.

Stone, Philip G., New York, N. Y., assignor to Stone Manufacturing Co., Elizabeth, N. J. Pivoted floodlight with watertight passageway for wiring. 2,587,917, Mar. 4.

Storm, Herbert F., Scotia, N. Y., assignor to Sunbeam Corporation, Chicago, Ill. High-frequency induction heating apparatus. 2,588,304, Mar. 4.

Story, Robert K., Jr., New York, N. Y. Vaginal douche. 2,587,784, Mar. 4.

Stout, George P., Baltimore, Md. Presence of crown detectors. 2,587,664, Mar. 4.

Stout, William L., Clarkston, Wash. Screen leveling device for harvesters. 2,587,918, Mar. 4.

Straehl, Robert N., assignor to Sperry Products, Inc., Danbury, Conn. Rail flaw detector mechanism. 2,587,785, Mar. 4.

Strauch, John, Philadelphia, Pa. Telephone lock. 2,588,176, Mar. 4.

Straus, Henry A., Baltimore, Md., P. R. Bell, Jr., and F. H. Murray, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission. Electrical apparatus for simulating the time dependent response characteristic of neutronic reactors. 2,587,919, Mar. 4.

Stromberg-Carlson Company, assignee: *See*—
Conrad, Matthew.

Stubbs, Walter W., Irwin, assignor to Pittsburgh Reflector Company, Pittsburgh, Pa. Lighting fixture with detachable light control panel. 2,587,920, Mar. 4.

Sturgis, Robert P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Pallet hoist attachment. 2,588,330, Mar. 4.

Sublett, Lester G., New Albany, Ind., assignor to Signal Scale and Manufacturing Company, Inc., Louisville, Ky. Automatic weigher. 2,587,787, Mar. 4.

Suite, Chester C., Hartford City, Ind. Shell holder for single shot rifles. 2,587,921, Mar. 4.

Sulcek, Charles E., Evansville, Ind., assignor to International Harvester Company. Breaker strip construction. 2,587,922, Mar. 4.

Sulger, Adolf, Kilchberg, Switzerland. Drilling device. 2,587,923, Mar. 4.

Sullenger, Henry E., Phillips, Tex., assignor to Phillips Petroleum Company. Distilling hydrocarbons. 2,588,305, Mar. 4.

Sullivan, Francis J.: *See*—
Korolyshun, Russell T., and Sullivan.

Sulphide Ore Process Company, Inc., assignee: *See*—
Konrad, Erich H., and Eustis.

Sunbeam Corporation, assignee: *See*—
Storm, Herbert F.

Superba Manufacturing Co., Inc., assignee: *See*—
Katz, Julius, and Majoros.

Superior Switchboard & Devices Company, The, assignee: *See*—
Morgan, Thomas J., and Moore.

Sutherland, Charles, assignee: *See*—
Kochendoerffer, Herman.

Sutton, Otis B.: *See*—
Coons, Curtis C., and Sutton.

Svensson, Karl J., Sundbyberg, Sweden. Mechanical lead pencil. 2,587,786, Mar. 4.

Svit, narodni podnik, assignee: *See*—
Veselý, Karel.

Swenson, Alfred G., Ontario, Calif., assignor to General Electric Company. Steam iron water reservoir water discharge control means. 2,587,665, Mar. 4.

Swift & Company, assignee: *See*—
Coad, Frederic J.

Sylvania Electric Products Inc., assignee: *See*—
Butler, Keith H.

Sylvester & Company, assignee: *See*—
Schoenlaub, Robert A.

Syntex, S. A., assignee: *See*—
Rosenkranz, George, and Kaufmann.

Tacy, Claris F., Oakdale, Pa. Rotatable Christmas tree stand. 2,587,788, Mar. 4.

Talmadge, Palmer C., and J. D. Zartman, Logansport, and R. E. Prouty, Cass County, assignors to Essex Wire Corporation, Logansport, Ind. Motor overload protector terminal structure. 2,587,789, Mar. 4.

Taylor, Alfred H., Jr., Tuckahoe, N. Y., assignor to Air Reduction Company, Incorporated. Fracturable seal. 2,588,306, Mar. 4.

Taylor, Edith M., and P. J. Moloney, assignors to The Governors of The University of Toronto, Toronto, Ontario, Canada. Producing heparin. 2,587,924, Mar. 4.

Teplitz, Abraham J.: *See*—
Crisman, Orvil W., and Teplitz.

Ter Meer, Herman and William W. Peterson, assignors to National Brass Company, Grand Rapids, Mich. Finger release latch. 2,588,307, Mar. 4.

Tesla, National Corporation, assignee: *See*—
Podskalský, Emil.
Špaček, Antonín.

Teter, John W.: *See*—
Bauer, Oscar W., and Teter.
Wayo, Stephen J., Teter, and Shand.

Teter, John W., Chicago, and E. W. Shand, Homewood, Ill., assignors to Sinclair Refining Company, New York, N. Y. Separation of propene and propane by extractive distillation. 2,588,056, Mar. 4.

Teubner, Edmund E., Upper Darby, assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa. Spacing mechanism for slide fasterner machines. 2,588,177, Mar. 4.

Thalman, Otto, Chevy Chase, Md. Bicycle kick stand. 2,587,790, Mar. 4.

Thomas, Cecil A. P., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Power-operated register resetting mechanism for gasoline dispensing pumps. 2,587,925, Mar. 4.

Thomas, Norman M., Medford Lakes, N. J., assignor to Joe Lowe Corporation, New York, N. Y. Liquid measuring apparatus. 2,588,057, Mar. 4.

Thompson, Ralph B., Hinsdale, and H. S. Bloch, assignors to Universal Oil Products Company, Chicago, Ill. Resinous copolymerization products from aromatic fulvenes. 2,587,791, Mar. 4.

Thompson, Robert C., and K. M. Cayton, Lake Charles, La. Cover tensioning device for sofa beds. 2,588,058, Mar. 4.

Thompson, William H., Wichita Falls, Tex. Hoisting equipment. 2,588,178, Mar. 4.

Thoms, Fred J.: *See*—
Smith, Charles J., and Thoms.

Thorn, John P.: *See*—
Arundale, Erving, and Thorn.

Thornbery, John H., Whitefish Bay, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Safety control device. 2,588,179, Mar. 4.

Titlestad, Nicolay, White Plains, N. Y., assignor to Nicolay Titlestad Corporation. Recovery of alkylation sludge acids. 2,588,331, Mar. 4.

Titlestad, Nicolay, Corporation, assignee: *See*—
Titlestad, Nicolay.

Tofflemire, Benjamin F., Lafayette, Calif. Matrix band retainer for anterior teeth and traction instruments therefor. 2,588,059, Mar. 4.

Toland, William G., Jr., Richmond, assignor to California Research Corporation, San Francisco, Calif. Oxidation of aromatic compounds containing oxygenated side chains. 2,587,666, Mar. 4.

Toledo Plate & Window Glass Company, The, assignee: *See*—
Jones, Norman B.

Toth, Emerick, Takoma Park, Md. Inductively coupled compensator. 2,587,667, Mar. 4.

Touvay, Robert R. G., assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Process and apparatus for making lenses. 2,587,926, Mar. 4.

Townsend, Vernon G.: *See*—
Akerman, John D., and Townsend.

Trailmobile Inc., assignee: *See*—
Black, James J.

Traylor, Samuel W., Jr., Allentown, Pa. Jaw crusher with hydraulic release and reset device. 2,588,180, Mar. 4.

Tressler, Donald K., Westport, Conn. Fruit whip. 2,588,308, Mar. 4.

Troyer, Abner J., Smithville, Ohio. Sizing roll construction for potato graders. 2,588,309, Mar. 4.

Tryon, Max: *See*—
Quinn, Fred A., Jr., and Tryon.

Tschudy, Emil, Beverly Hills Village, Mo. Bowling ball cleaner. 2,587,927, Mar. 4.

Tuck, Raymond G., Pontiac, and C. E. Fisher, Royal Oak, Mich. Continuous strip dispenser. 2,587,928, Mar. 4.

Turner, Henry C.: *See*—
Veevers, John F., and Turner.

Twelt, Olav M., Mountain Lakes, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Coke oven door machine. 2,588,060, Mar. 4.

Tylutki, Mitchell A.: *See*—
Chouinard, Alfred F., and Tylutki.

Tyson, Levi D., Elkhart, Ind., assignor, by mesne assignments, to Gisholt Machine Company, Madison, Wis. Steady rest. 2,587,929, Mar. 4.

Underhill, M. G., assignee: *See*—
Kochendoerffer, Herman.
Underwood, James W.: *See*—
Nelson, John D., Pyle, and Underwood.
Union Novelty Company, Inc., assignee: *See*—
Hahn, Alfred.
Union Special Machine Company, assignee: *See*—
Peterson, Albert C., and Will.
Union Starch & Refining Company, assignee: *See*—
Cleland, James E.
United Aircraft Corporation, assignee: *See*—
Czarnecki, Sigmund A.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Newton, Amos S.
Perkins, Melvin A., and Couper.
Straus, Henry A., Bell, and Murray.
United States Gypsum Company, assignee: *See*—
Downey, Richard M.
United States Steel Company, assignee: *See*—
Donelson, John G., and Vaurio.
Lorig, Edwin T.
Shack, Andrew T., and Zemberry.
Universal Oil Products Company, assignee: *See*—
Deanesly, Richard M.
Huff, Lyman C.
Ipatieff, Vladimir N., and Pines.
Thompson, Ralph B., and Bloch.
University of Toronto, The Governors of The, assignee: *See*—
Taylor, Edith M., and Moloney.
Unwin, Kenneth J., assignor, by mesne assignments, to Quaker Stretcher Company, Kenosha, Wis. Curtain stretcher. 2,588,332, Mar. 4.
Uschmann, Curt, Lebanon, assignor to Cascades Plywood Corporation, Portland, Oreg. Method of and apparatus for extruding. 2,587,930, Mar. 4.
Vahle, Julius, F. E. Goodness, and P. D. Heath, Syracuse, N. Y., assignors to General Electric Company. High-frequency phase angle responsive circuit. 2,588,181, Mar. 4.
Vaisey, Harold C.: *See*—
Whitehouse, John R., and Vaisey.
Van der Vliet, Jacob: *See*—
Reerink, Engbert H., and Van der Vliet.
Van der Wilt, Wien A., Glendale, Calif. Brake adjuster. 2,587,931, Mar. 4.
Van Ranst, Cornelius W., Dearborn, Mich., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio. Garbage grinder. 2,588,182, Mar. 4.
Vaurio, Viljo W.: *See*—
Donelson, John G., and Vaurio.
Veevers, John F., Lymm, and H. C. Turner, Hale, assignors to The General Electric Company, Limited, London, England. Reading adjustment for an indicating instrument in hermetically sealed cases. 2,587,668, Mar. 4.
Veselý, Karel, assignor to Svit, narodni podnik, Gottwaldov, Czechoslovakia. Shoe having an upper formed of strap members each secured by a flat fastener member. 2,588,061, Mar. 4.
Veyssiere, Henri, La Seyne-sur-Mer, assignor to Societe Anonyme des Forges et Chantier de la Mediterranee, Paris, France. Boiler. 2,588,310, Mar. 4.
Vickers-Armstrongs Limited, assignee: *See*—
Brereton, Christopher F.
Vigon, Jule, assignor to Precision Plastic Products, Inc., Chicago, Ill. Hollow fluorescent character and mounting. 2,588,183, Mar. 4.
Vining, James D., New Orleans, La. Overboard discharge chute. 2,587,932, Mar. 4.
Volpin, Alexander S., Houston, Tex. Shear relief valve. 2,587,933, Mar. 4.
Volpin, Alexander S., Houston, Tex. Valve indicator. 2,587,934, Mar. 4.
Von Sivers, Carl H., Stockholm, Sweden. Rounding the tips of bristles. 2,587,792, Mar. 4.
Vorderstrasse, Rudolph C., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Electrode arrangement for fence welding machines. 2,588,062, Mar. 4.
Wagner, George P., Mount Vernon, N. Y., assignor to The Engineering Development Company, Incorporated, doing business as Engineering Development Company, Incorporated, Dallas, Tex. Oil well drilling apparatus. 2,588,311, Mar. 4.
Wahlstrom, Lawrence T.: *See*—
Hopton, Harold, and Wahlstrom.
Wainer, Eugene: *See*—
Kopelman, Bernard, and Wainer.
Waldron, Frederic B., Eccleston Park, Prescot, England. Manufacture of steel. 2,587,793, Mar. 4.
Walker, Le Roy E., Mullen, and G. R. Morton, Grand Island, Nebr. Fountain toothbrush. 2,587,794, Mar. 4.
Walker, Richard P., Essex, Md., assignor to Standard Oil Development Company. Foam distributor nozzle. 2,588,312, Mar. 4.
Wallace, Frank C., North Hollywood, Calif. Retractable pen device. 2,587,935, Mar. 4.
Wallingford, Vernon H., Ferguson, assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Iodinated 2-acylamino benzoyl derivatives of amino acids. 2,587,936, Mar. 4.
Walsh, William R., East Orange, N. J. Toy rocket bomb. 2,588,184, Mar. 4.
Walter, Theodore B., Oberlin, Ohio. Electrical paint remover. 2,588,185, Mar. 4.
Waltke, Edwin H., Jr., Los Angeles, Calif. Barrel construction for firearms. 2,587,937, Mar. 4.
War, United States of America as represented by the Secretary of, assignee: *See*—
Fox, Benjamin.
Garand, John C.
Ward, Irving A.: *See*—
Bletcher, Ralph E., Bentley, and Ward.
Ward, Wendell L.: *See*—
Busby, Hibbard S., and Ward.
Warren, Doyle C., Altadena, assignor to Chiksan Company, Brea, Calif. Adjustable fluid handling conduit. 2,587,938, Mar. 4.
Wasson, Loerwood, Wauwatosa, assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis. Control device. 2,588,186, Mar. 4.
Wayo, Stephen J., Whiting, Ind., J. W. Teter, Chicago, and E. W. Shand, Homewood, Ill., assignors to Sinclair Refining Company, New York, N. Y. Separation of propene and propane by extractive distillation. 2,588,063, Mar. 4.
Webb, Ernest C., Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Keyed shaft coupling. 2,588,064, Mar. 4.
Webb, George A.: *See*—
Corson, Ben B., and Webb.
Webb, Wells A., San Jose, Calif. Food processing apparatus. 2,587,939, Mar. 4.
Weber, Louis J., Bartlesville, Okla., and L. D. Ringo, Borger, Tex., assignors to Phillips Petroleum Company. Wedge closure fitting. 2,588,313, Mar. 4.
Webster-Chicago Corporation, assignee: *See*—
Dull, John R.
Webster, Glen B., Bartlesville, Okla. Pipe clamp. 2,587,940, Mar. 4.
Webster, John V.: *See*—
Aasland, Byron T., and Webster.
Webster, William M., E. O. Johnson, and L. Malter, Princeton, N. J., assignors to Radio Corporation of America. High-frequency gas discharge device. 2,588,065, Mar. 4.
Weinrich, William W., Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Processing liquid hydrocarbons. 2,587,669, Mar. 4.
Weinrich, William W., Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Processing liquid hydrocarbons. 2,587,670, Mar. 4.
Weisberg, Sidney M., Newark, assignor to Allied Electric Products, Inc., Irvington, N. J. Protection of hydraulic power presses. 2,588,066, Mar. 4.
Weiser, Robert E., Indianapolis, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio. Two-speed planetary transmission. 2,588,187, Mar. 4.
Weisman, Sam, Detroit, Mich. Backwater valve. 2,588,188, Mar. 4.
Weissenberg, Gustav, Marburg/Lahn, and O. Sänger, Wetzlar/Lahn, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Electronic optical correction mechanism for magnetic lenses. 2,587,942, Mar. 4.
Wender, Irving, and M. Orchin, Pittsburgh, Pa. Reduction of oxygenated thiophene compounds. 2,587,671, Mar. 4.
Wertz, Louis S., assignee: *See*—
Klein, Alexander.
West, James M., Fayetteville, Tenn. Control mechanism for well pumps. 2,587,795, Mar. 4.
Western Electric Company, Incorporated, assignee: *See*—
McCarthy, Rollin H.
Wetzel, Paul E.: *See*—
Cleland, Fred B., Baranecky, Kolk, and Wetzel.
Whaley, Randall M.: *See*—
Lark-Horovitz, Karl, and Whaley.
Whitaker, David C.: *See*—
Githens, Otto W., Smith, and Whitaker.
Whitaker, Dorothy B., administratrix: *See*—
Githens, Otto W., Smith, and Whitaker.
White, Edward J.: *See*—
Pierce, Lloyd L., and White.
Whitehead & Co., Inc., assignee: *See*—
Whitehead, Ned.
Whitehead, Ned, Los Angeles, Calif., assignor to Whitehead & Co., Inc., San Juan, Puerto Rico. Identification card. 2,588,067, Mar. 4.
Whitehouse, John R., and H. C. Vaisey, assignors to Hickok Manufacturing Co. Inc., Rochester, N. Y. Interchangeable initial belt buckle. 2,587,796, Mar. 4.
Whitson, William L., Takoma Park, Md. Automatic revolving chamber rocket launcher. 2,587,672, Mar. 4.
Wicks, Gerald C., New York, N. Y. Electric heater. 2,588,314, Mar. 4.
Wiedenhoeft, Arthur E., Glen Ellyn, Ill. Wall lamp with rotatable shade and mirror. 2,587,941, Mar. 4.
Wiggins, John H., Chicago, Ill. Pressure-vacuum control valve. 2,587,943, Mar. 4.
Wiggins, Walter, Jr., Washington, D. C. Derrick. 2,587,797, Mar. 4.

Wilcox, Philip E., New York, N. Y. Construction toy. 2,587,798, Mar. 4.
Wilham, Carl A.: *See*—
Jeanes, Allene R., and Wilham.
Will, Walter O.: *See*—
Peterson, Albert C., and Will.
Williams, Charlie D., Pasadena, Calif. Impact tool. 2,587,944, Mar. 4.
Williams, Ernest, Jackson Heights, and J. W. Bogdanowski, Flushing, assignors to Consolidated Edison Company of New York, Inc., New York, N. Y. Drilling apparatus. 2,588,068, Mar. 4.
Williams, Raymond C.: *See*—
Ogden, Albert B., Butcosk, and Williams.
Wilson, Broadus, Raleigh, N. C. Apparatus for precooling. 2,588,189, Mar. 4.
Wilson, Donald L.: *See*—
Sharman, Eric P., and Wilson.
Wilson, William F., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Drive axle and track frame mounting for crawler tractors. 2,588,333, Mar. 4.
Windfields Limited, assignee: *See*—
Duffield, William A.
Windfields (1946) Limited, assignee: *See*—
Duffield, William A.
Winter, Rudolph R., Chicago, Ill. Universal scratch gauge. 2,587,799, Mar. 4.
Wirth, Hans, Middletown, Conn., assignor to Connecticut Asbestos Products, Inc., New York, N. Y. Friction disk and making same. 2,587,945, Mar. 4.
Witt, Richard M., Berkeley, assignor, by mesne assignments, to M & J Engineering Co., Piedmont, Calif. Motor valve and positioner apparatus. 2,587,800, Mar. 4.
Wockenfuss, William, Union, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company. Analyzer and transfer unit in tabulating and like machines. 2,588,190, Mar. 4.
Wolf, Robert W., Philadelphia, Pa. Arrangement for maintaining a closure in any of a plurality of open positions. 2,587,947, Mar. 4.
Wolff, Ivan A.: *See*—
Rist, Carl E., Davis, and Wolff.
Wood, Bryan S.: *See*—
Moore, John D., and Wood.
Wood, John, Manufacturing Company, Inc., assignee: *See*—
Rostine, Carl A.
Wood, Louvan E., assignor to Bendix Aviation Corporation, Baltimore, Md. Meteorological apparatus. 2,587,946, Mar. 4.
Woods, John E., Cohasset, assignor, by mesne assignments, to Standard-Thomson Corporation, Boston, Mass. Oil cooler. 2,587,801, Mar. 4.
Woodworth, N. A., Company, assignee: *See*—
Hohwart, George, and E. F.
Woolf, James W., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Electric switch. 2,587,948, Mar. 4.
Workman, Joe W.: *See*—
Miller, Joe, and Workman.
Youngstown Steel Door Company, The, assignee: *See*—
Madland, Gabriel.
Zapfel, Raymond: *See*—
Ekkebus, Eloy D., Gallagher, and Zapfel.
Zartman, John D.: *See*—
Talmadge, Palmer C., Zartman, and Prouty.
Zemberry, William L.: *See*—
Shack, Andrew T., and Zemberry.
Ziegler, Arthur W., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Heating apparatus. 2,588,315, Mar. 4.
Zimmer, Albert E., assignor to Enterprise Railway Equipment Company, Chicago, Ill. Hopper bottom load discharging car. 2,588,316, Mar. 4.
Zimmerman, Edward C.: *See*—
Arenberg, Albert L., and Zimmerman.
Zimmerman, Ralph D., Omaha, Nebr. Water softening system valve. 2,588,317, Mar. 4.
Zodtner, Harlan H., assignor to The Parker Pen Company, Janesville, Wis. Fountain pen. 2,587,949, Mar. 4.
Zuras, Frank M., St. Louis, Mo. Control unit for visual training devices. 2,588,191, Mar. 4.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Hammer mill with material deflecting feed structure, Reversible. J. G. Wilson. Re. 23,468, Mar. 4.
Loader machine. E. M. McElhinney and T. A. Podhajsky. Re. 23,466, Mar. 4.
Preparing dried molasses. E. O. Sargent. Re. 23,467, Mar. 4.
Strainer, Automatic water. W. H. Zollinger. Re. 23,469, Mar. 4.
Wheel construction for front wheel drives. H. R. Holmes. Re. 23,465, Mar. 4.

LIST OF DESIGN INVENTIONS

Artificial fireplace. K. C. Haas. 166,077, Mar. 4.
Bar unit or similar article, Food and drink. W. S. Milner. 166,096, Mar. 4.
Bathroom unit, Combination. L. E. Bagwell. 166,061, Mar. 4.
Bottle or similar article. W. E. Boschin. 166,066, Mar. 4.
Bracelet, Rosary. E. J. Towle. 166,107, Mar. 4.
Brush, Shampoo. A. L. Le Febvre. 166,086, Mar. 4.
Cabinet, Television. I. M. Johnson. 166,081, Mar. 4.
Carpet underliner. C. Lachman. 166,085, Mar. 4.
Chocolate tempering mill unit. R. E. Savage. 166,103, Mar. 4.
Clockcase. L. I. Bruce. 166,069, Mar. 4.
Clockcase or similar article. J. F. Punzak. 166,098, Mar. 4.
Curtain, Window. F. H. Vance. 166,108, Mar. 4.
Desk unit, Combination. M. Glaberson. 166,075–6, Mar. 4.
Desk, Wall. W. F. Wadsworth. 166,109, Mar. 4.
Dispenser, Beverage. W. P. Margulies, L. F. Covey, and K. H. Tiffany. 166,091, Mar. 4.
Display support or similar article, Necktie. M. Aron. 166,060, Mar. 4.
Display unit, Seat cushion. W. O. Heinze. 166,080, Mar. 4.
Dress. T. Leser. 166,087, Mar. 4.
Fire fighting unit, Transportable. W. W. and W. H. Schmitt. 166,105, Mar. 4.
Flashlight. M. S. Dunkelberger. 166,073, Mar. 4.
Head covering. H. Brand and I. Kurtz. 166,068, Mar. 4.
Holder, Toothbrush. M. E. Lindsay. 166,088, Mar. 4.
Indicator, Soil moisture. O. J. Knutson. 166,082, Mar. 4.
Instrument, Leveling. W. L. Heffern. 166,079, Mar. 4.
Lighting fixture, Direct. R. G. McPhail. 166,093, Mar. 4.
Link chain for a bracelet or the like, Expansible. E. Rodriguez. 166,099, Mar. 4.
Ornament, Dress. M. Myers. 166,097, Mar. 4.
Package for jewelry findings and the like. M. L. Berrie. 166,062, Mar. 4.
Pair of food tongs or similar article. N. W. Roop. 166,100, Mar. 4.
Planter. E. E. Mecus. 166,094, Mar. 4.
Plate or similar article, Dinner. D. Bourne. 166,067, Mar. 4.
Plate, Salad. C. O. Bliss. 166,065, Mar. 4.
Pocketknife. B. Blecher. 166,064, Mar. 4.
Receptacle, Ash receiving. M. Drexler. 166,072, Mar. 4.
Record player. R. D. Budlong. 166,070, Mar. 4.
Shirt, Sport. J. D. McDonald. 166,092, Mar. 4.
Shoe. S. E. Bishop and N. J. Lissak. 166,063, Mar. 4.
Shoe or similar article. R. Maling. 166,090, Mar. 4.
Stand, Adjustable reading. F. J. Luketa. 166,089, Mar. 4.
Stand, China. N. Rubin. 166,102, Mar. 4.
Stocking. M. Fisher and F. L. Ireland. 166,074, Mar. 4.
Stocking. J. E. Melker. 166,095, Mar. 4.
Stocking. F. C. Rosen. 166,101, Mar. 4.
Stocking, Lady's. R. E. Schletter. 166,104, Mar. 4.
Stool, Step. B. F. Hamilton. 166,078, Mar. 4.
Tablecloth. W. Wolf. 166,110, Mar. 4.
Tape-dispensing machine. A. P. Krueger. 166,083–4, Mar. 4.
Toy railroad station. R. L. Butzko. 166,071, Mar. 4.
Tubular stripping shoe or the like. H. Simon. 166,106, Mar. 4.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Absorption refrigeration. A. G. Gross. 2,587,996, Mar. 4.
Absorption refrigeration. W. G. Kögel. 2,587,629, Mar. 4.
Acylation of dextran in formamide. A. R. Jeanes and C. A. Wilham. 2,587,623, Mar. 4.
Address book, Note paper ejecting. R. Newman. 2,588,152, Mar. 4.
Adjustable height vehicle seat. B. J. Murphy. 2,587,751, Mar. 4.
Adjustable ring gauge. G. and E. F. Hohwart. 2,588,116–17, Mar. 4.
Adjustable shaft hanger. C. M. Hyman. 2,587,851, Mar. 4.
Air actuated chance device. L. C. Pagenhardt. 2,588,038, Mar. 4.
Air bleeder for vehicle lifts. J. J. Pelouch. 2,588,285, Mar. 4.
Airplane control. H. I. Libby. 2,588,020, Mar. 4.
Alkali metal salts of organosiloxanols and organosilanetriols, Making. C. W. MacMullen. 2,587,636, Mar. 4.
Alkylmercaptoalkyl phosphites. D. Harman. 2,587,616, Mar. 4.
Alloy: *See*—
Lead cable sheath alloy.
Alloys and rectifiers made thereof. K. Lark-Horovitz and R. M. Whaley. 2,588,253, Mar. 4.
Alternator and rectifier mounting. R. C. Ogilvy. 2,588,156, Mar. 4.
Ammunition conveyer for guns. E. W. Farrell. 2,587,607, Mar. 4.
Analyzer and transfer unit in tabulating and like machines. W. Wockenfuss. 2,588,190, Mar. 4.
Angle comparator. J. Ruze. 2,587,653, Mar. 4.
Apparatus and process for making mineral wool. R. M. Downey. 2,587,710, Mar. 4.
Apparatus for buffing flexible articles. F. Slusher. 2,587,776, Mar. 4.
Apparatus for continuously processing strands. E. T. Lorig. 2,587,742, Mar. 4.
Apparatus for cultivation by flame. J. K. McNeill. 2,587,873, Mar. 4.
Apparatus for determining moisture content of tobacco. A. W. Schoenbaum and J. T. Ashworth. 2,587,771, Mar. 4.
Apparatus for determining the speed of objects. D. F. Sheldon and G. F. Jenkins. 2,587,775, Mar. 4.
Apparatus for forming cylindrical shapes. F. M. Darner. 2,587,975, Mar. 4.
Apparatus for forming lubrication fittings. W. Schmid and J. A. Simkus. 2,588,298, Mar. 4.
Apparatus for limiting the degree of subatmospheric pressures. O. H. P. Dawson. 2,588,214, Mar. 4.
Apparatus for liquefying paraffin in wells. P. H. Nash. 2,587,879, Mar. 4.
Apparatus for measuring and detecting magnetic objects. H. A. Kuehne. 2,587,631, Mar. 4.
Apparatus for mixing manure and dry fertilizers. N. Cordis. 2,587,598, Mar. 4.
Apparatus for moving small houses and the like. J. C. Holland. 2,588,001, Mar. 4.
Apparatus for placing a pickup on a record at a preselected position. A. W. Courtis and K. G. D. Hallett. 2,587,970, Mar. 4.
Apparatus for precooling. B. Wilson. 2,588,189, Mar. 4.
Apparatus for producing chime tones and method of tuning musical bars. P. H. Rowe. 2,588,295, Mar. 4.
Apparatus for producing stereoscopic pictures. W. A. Ayres. 2,587,585, Mar. 4.
Apparatus for producing uniform foam structures. J. D. Nelson, J. J. Pyle, and J. W. Underwood. 2,588,151, Mar. 4.
Apparatus for simulating a snowfall. J. Hormann. 2,587,620, Mar. 4.
Apparatus for splitting rubber thread. S. C. Lilley. 2,587,634, Mar. 4.
Apparatus for supplying mechanical recording bias to magnetic recorders. M. Camras. 2,587,593, Mar. 4.
Apparatus for testing amplifiers. M. Conrad. 2,587,697, Mar. 4.
Apparatus for the production of prints. H. A. Olsson. 2,587,883, Mar. 4.
Apparatus for thinning plants and killing extraneous vegetation. A. F. Aggen. 2,587,950, Mar. 4.
Apparatus for transporting beams. F. B. Noerr. 2,588,278, Mar. 4.
Approach control in coded track circuit signaling systems. J. Y. Howard. 2,588,005, Mar. 4.
Arrangement for collecting and utilizing natural gas leakage from a centrifugal compressor employed on a pipe line. W. F. Jones. 2,588,122, Mar. 4.
Arrangement for maintaining a closure in any of a plurality of open positions. R. W. Wolf. 2,587,947, Mar. 4.
Arsenic modified polysulfide plastics. L. Akohjanoff. 2,587,805, Mar. 4.
Articulated panels, Manufacture of. R. M. Bergstein. 2,587,685, Mar. 4.
Artificial leg. F. Kleinekathöfer. 2,588,013, Mar. 4.
Artificial lure. S. O. Smith. 2,588,055, Mar. 4.
Artificial respiration apparatus. J. D. Akerman and V. G. Townsend. 2,588,192, Mar. 4.
Arylindanes, Production of. V. N. Ipatieff and H. Pines. 2,587,577, Mar. 4.
Attack defeating combination lock. F. W. Sammons. 2,587,654, Mar. 4.
Automatic revolving chamber rocket launcher. W. L. Whitson. 2,587,672, Mar. 4.
Automatic tire tube air valve. R. A. Daalmeyer. 2,587,973, Mar. 4.
Automatic variable-speed transmission. W. A. Duffield. 2,588,220, Mar. 4.
Automatic weigher. L. G. Sublett. 2,587,787, Mar. 4.
Automatically actuated wheel feed mechanism for saw grinding machines. R. B. Matthewman. 2,588,263, Mar. 4.
Auxiliary furrow opener. F. E. Rohrer. 2,587,765, Mar. 4.
Auxiliary optical device for phase microscopes. L. Franceschini. 2,588,105, Mar. 4.
Auxiliary speed control mechanism for knitting machines. P. W. Bristow. 2,587,816, Mar. 4.
Azide modified fuels and lubricants. S. Shappirio. 2,587,581, Mar. 4.
Baby walker, Upright. H. E. Fox. 2,588,104, Mar. 4.
Backwater valve. S. Weisman. 2,588,188, Mar. 4.
Bagmaking machine. E. T. Jaeger. 2,587,732, Mar. 4.
Bale stacking and unstacking machine. M. A. Rowe. 2,587,769, Mar. 4.
Ball cock, Silent. R. H. Hunter. 2,588,242, Mar. 4.
Barium mesotrisilicate phosphor. K. H. Butler. 2,587,592, Mar. 4.
Barrel construction for firearms. E. H. Waltke, Jr. 2,587,937, Mar. 4.
Base or pedestal for chairs. H. A. Penchoen. 2,587,886, Mar. 4.
Basic aluminum salts of alpha amino acids, Preparation of. G. S. Delmar. 2,588,090, Mar. 4.
Battery, Secondary. W. A. Smith. 2,588,170, Mar. 4.
Bearing: *See*—
Pitman bearing.
Belt buckle, Interchangeable initial. J. R. Whitehouse and H. C. Vaisey. 2,587,796, Mar. 4.
Benzidine sulfate, Preparation of. W. S. Krause. 2,587,861, Mar. 4.
Benzophenothiazine nitriles. N. L. Smith. 2,587,661, Mar. 4.
Bicycle kick stand. O. Thalman. 2,587,790, Mar. 4.
Billfold. R. Hirschfelder. 2,588,237, Mar. 4.
Block grease, Manufacture of. A. B. Ogden, R. A. Butcosk, and R. C. Williams. 2,588,326, Mar. 4
Block lifter. J. D. Naillon. 2,588,276, Mar. 4.
Board: *See*—
Sound insulation board.
Boiler: *See*—
Horizontal fire tube welded boiler.
Boiler. H. Veyssiere. 2,588,310, Mar. 4.
Bolometer. C. B. Aiken. 2,587,674, Mar. 4.
Bookkeeping machine. E. M. Magnusson. 2,588,023, Mar. 4.
Bottle carrier. E. L. Arneson. 2,587,808, Mar. 4.
Bottle loader. E. L. Arneson. 2,587,953, Mar. 4.
Bottle opener and seal cutter. R. Eckenboy. 2,588,096, Mar. 4.
Bowl scraper attachment for tractors. J. R. Marshall. 2,587,869, Mar. 4.
Bowling ball cleaner. E. Tschudy. 2,587,927, Mar. 4.
Box: *See*—
Live bait box.
Box for stationery, Movable. L. K. Fleischmann. 2,587,827, Mar. 4.
Bracket: *See*—
Hinged fixture supporting bracket.
Brake: *See*—
Sheet metal brake.
Brake actuator. C. S. McCarthy. 2,588,027, Mar. 4.
Brake adjuster. W. A. Van Der Wilt. 2,587,931, Mar. 4.
Brake adjusting mechanism. H. L. Frick. 2,587,831, Mar. 4.
Brake rigging. W. R. Schettler. 2,588,168, Mar. 4.

Braking mechanism for hose reeling apparatus. C. A. Rostine. 2,587,652, Mar. 4.
Breaker strip construction. C. E. Sulcek. 2,587,922, Mar. 4.
Brine evaporation system. W. H. Farnsworth. 2,588,099, Mar. 4.
Broaching machine. E. C. Raehrs. 2,587,896, Mar. 4.
Bubble blowing device. F. A. Quinn, Jr., and M. Tryon. 2,587,895, Mar. 4.
Bucket, Minnow. E. L. Goode. 2,587,834, Mar. 4.
Building structure. C. A. Ajne. 2,587,804, Mar. 4.
Burner: *See*—
  Fuel burner.
Bus bar assembly including longitudinal solder-filled recess. B. L. Snavely and J. V. Atanasoff. 2,588,172, Mar. 4.
Cable: *See*—
  Heat detecting cable.
Cage and operating mechanism for shaft shovels. P. Harrison. 2,587,844, Mar. 4.
Calcium hypochlorite bleach liquor, Manufacture of. H. H. Heller and R. G. Shirriff. 2,587,845, Mar. 4.
Calculating instrument with optical projection system for magnification. E. K. Mettler and J. Meier. 2,588,269, Mar. 4.
Calendar rack. R. J. Higginbotham. 2,588,236, Mar. 4.
Can aligner and conveyer. R. F. Laughlin. 2,587,740, Mar. 4.
Can-opening device. E. Johanson. 2,588,244, Mar. 4.
Cap: *See*—
  Spray gun air cap.
Cap closure. C. M. Koster. 2,587,737, Mar. 4.
Car: *See*—
  Hopper bottom load discharging car.
Car lighting structure. A. L. Arenberg and E. C. Zimmerman. 2,587,807, Mar. 4.
Carbothiolic acids, Preparing. J. C. McCool. 2,587,580, Mar. 4.
Card index. F. Perwolf. 2,588,286, Mar. 4.
Card sorter. C. Bard. 2,587,682, Mar. 4.
Carpet anchoring device. R. Goodemoot. 2,587,836, Mar. 4.
Carrier: *See*—
  Bottle carrier.
Carrier and seat, Collapsible child's. J. P. Bosk. 2,587,688, Mar. 4.
Carton, Molded pulp egg. F. H. Sherman. 2,587,909, Mar. 4.
Case for fragile articles, Shipping. J. R. Grant. 2,588,232, Mar. 4.
Catalytic metal-alkaline earth carbonate pellet and its production. B. B. Corson and G. A. Webb. 2,587,599, Mar. 4.
Cathode-ray tube circuit. L. J. Haworth. 2,588,114, Mar. 4.
Caulking gun, Disposable. R. E. Barry. 2,587,683, Mar. 4.
Cellulose esters, Production of. E. P. Sharman and D. L. Wilson. 2,588,051, Mar. 4.
Centrifugal actuator. C. S. Phillips. 2,588,159, Mar. 4.
Centrifugal speed control for vacuum cleaners. L. H. Snyder. 2,588,301, Mar. 4.
Chair: *See*—
  Electrically heated chair.
  Folding and stacking chair.
  Lounging chair.
Chair back, Resiliently mounted. W. D. Corning. 2,587,822, Mar. 4.
Chalk, Manufacture of. H. H. Heller and G. H. Saunders. 2,587,999, Mar. 4.
Chart, Time. M. Grega. 2,587,615, Mar. 4.
Chute assembly for automatic pin setting machines. J. J. Scheppe. 2,588,297, Mar. 4.
Cigarette novelty. W. W. Miller. 2,588,146, Mar. 1.
Circuit: *See*—
  Cathode-ray tube circuit.
  High-frequency phase angle responsive circuit.
  Pulse shaping circuit.
  Pulsing circuit.
Circuit interrupter with arc-extinguishing means. R. P. Ballou. 2,588,195, Mar. 4.
Circuit signaling system, Rectified alternating current type coded track. W. H. Reichard. 2,588,044, Mar. 4.
Clamp: *See*—
  Ear clamp.
  Pipe clamp.
Cleaner: *See*—
  Bowling ball cleaner.
  Suction cleaner.
Cleaning and rustproofing composition. C. W. Smith. 2,587,777, Mar. 4.
Clock, Electric alarm. A. B. Poole. 2,587,890, Mar. 4.
Clutch: *See*—
  Friction type clutch.
  Overload released clutch.
Clutch mechanism for physician's examination tables, Foot-operated. S. S. Spielberg. 2,588,174, Mar. 4.
Clutch plate. G. I. Goodwin. 2,587,837, Mar. 4.
Coat hanger. A. O. Mackey. 2,587,743, Mar. 4.
Coin dispenser. M. F. Arnett. 2,587,809, Mar. 4.
Coke oven door machine. O. M. Tweit. 2,588,060, Mar. 4.
Collating machine. D. L. Harrison. 2,587,843, Mar. 4.
Color temperature meter and spectrometer. F. F. Crandell. 2,587,602, Mar. 4.
Comparing device. R. A. Rowley. 2,588,049, Mar. 4.
Compartment box partition. I. A. Deline. 2,587,706, Mar. 4.
Composite piston ring assembly. H. P. Phillips. 2,587,888, Mar. 4.
Compressor shaft assembly. L. M. Kurtz. 2,588,126, Mar. 4.
Conditioning machine. A. N. Neergaard and A. C. Steenberg. 2,588,277, Mar. 4.
Connecting member for looms. C. L. Huffman. 2,588,241, Mar. 4.
Connector clamp for coaxial electrical cables. D. C. Akers. 2,587,676, Mar. 4.
Container and rack for holding and pressing neckties. S. W. Hoover. 2,587,850, Mar. 4.
Container closure. C. M. Koster. 2,587,738, Mar. 4.
Container or tray, Compartmented. A. Holder and T. Niedaszwecki. 2,587,726, Mar. 4.
Continuous strip dispenser. R. G. Tuck and C. E. Fisher. 2,587,928, Mar. 4.
Continuous type furnace. J. L. McFarland and N. B. Jones. 2,588,141, Mar. 4.
Continuous wave detection system. R. C. Eaton. 2,588,094, Mar. 4.
Control circuit for telephone systems. J. O. Shepherd. 2,588,052, Mar. 4.
Control device. L. Wasson. 2,588,186, Mar. 4.
Control lever assembly. J. D. Moore and B. S. Wood. 2,587,875, Mar. 4.
Control means for hydraulically operated weed and brush cutters. E. W. Holmes. 2,588,004, Mar. 4.
Control mechanism for screw machines. X. F. Castelli. 2,588,205, Mar. 4.
Control mechanism for well pumps. J. M. West. 2,587,795, Mar. 4.
Control unit for visual training devices. F. M. Zuras. 2,588,191, Mar. 4.
Control valve. R. J. Breit and H. C. Schroeder. 2,588,202, Mar. 4.
Controllable hydraulic power transmission. A. Liljefors. 2,587,866, Mar. 4.
Conversion of a mixture of hydrocarbonaceous solids and liquid hydrocarbons. L. C. Huff. 2,587,729, Mar. 4.
Conveyer. O. J. B. Orwin. 2,588,282, Mar. 4.
Cooking appliance, Electric. H. H. Miller. 2,588,145, Mar. 4.
Cooking device. R. Ridgely. 2,588,046, Mar. 4.
Cooler: *See*—
  Oil cooler.
  Water cooler.
Cord guide for Venetian blind tilt rails. I. H. Palmisano. 2,587,756, Mar. 4.
Corrosion preventive composition. E. R. Barnum. 2,587,955, Mar. 4.
Cotton filled structural material and preparing the same. H. S. Busby and W. L. Ward. 2,587,591, Mar. 4.
Coupling: *See*—
  Keyed shaft coupling.
  Spring grip pipe coupling.
  Universal coupling.
Cover and closure for waste receptacles. R. I. Fredrickson. 2,587,988, Mar. 4.
Cover tensioning device for sofa beds. R. C. Thompson and K. M. Cayton. 2,588,058, Mar. 4.
Cracking heavy oils in presence of oxygen. R. M. Deanesly. 2,587,703, Mar. 4.
Cribbage scorekeeper. R. R. Hicks. 2,587,618, Mar. 4.
Crop-dusting machine. E. P. Embree and D. C. Schmitten. 2,587,714, Mar. 4.
Cultivator, Vineyard. H. Garnsey and J. J. Knapp. 2,587,721, Mar. 4.
Curtain construction. E. J. Lepow. 2,588,256, Mar. 4.
Curtain hanger-pleater. W. B. S. Cameron. 2,588,203, Mar. 4.
Cutter: *See*—
  Hydraulically operated mobile weed and brush cutter.
Cylinder adjusting means for machines for printing fabrics, paper, and other materials. J. Dungler. 2,587,606, Mar. 4.
Deasphalting mixtures of hydrocarbons. H. C. Myers. 2,587,643, Mar. 4.
Decorative sheet-like articles, Making. M. A. Chavannes and L. E. Magoon. 2,587,594, Mar. 4.
Defatting starch. C. E. Rist, H. A. Davis, and I. A. Wolff. 2,587,650, Mar. 4.
Dehairing apparatus for hog carcasses. A. O. Lundell. 2,588,259, Mar. 4.
Dehydrating isophorone fatty acid extract. K. K. Mercer and W. E. Catterall. 2,588,268, Mar. 4.
Dental and surgical percussion tool. F. M. Hufnagel. 2,588,006, Mar. 4.
Dental impression device. W. T. Shea. 2,588,169, Mar. 4.
Dental light. J. Pohanka. 2,588,288, Mar. 4.
Dental paste. J. B. Lewis and L. Kenner. 2,588,324, Mar. 4.
Derrick. W. Wiggins, Jr. 2,587,797, Mar. 4.
Detergent composition. L. McDonald. 2,587,637, Mar. 4.
Detergent composition. L. McDonald. 2,588,264, Mar. 4.
Detergents and wetting agents from olefins, Manufacture of. P. J. Garner and H. N. Short. 2,587,990, Mar. 4.
Device for artificially inseminating animals. D. W. Edwards. 2,587,984, Mar. 4.
Device for controlling fluid flow. P. R. Marvin. 2,588,137, Mar. 4.
Diaper. A. C. Harrison. 2,588,113, Mar. 4.
Direct reading color temperature meter. F. F. Crandell and H. Heidt. 2,587,601, Mar. 4.

Disconnectable transfer mechanism for settable registers. R. J. Rouan. 2,587,766, Mar. 4.
Dispenser: *See*—
  Coin dispenser.
  Continuous strip dispenser.
Dispenser having an inlet and an outlet valve for measuring the quantities dispensed. V. R. Clark. 2,588,206, Mar. 4.
Dispensing apparatus for dispensing measured amounts of beverages, Liquid. H. De Mille. 2,588,217, Mar. 4.
Display sign. S. W. Rutherford. 2,588,050, Mar. 4.
Distillation of oxygenated organic compounds. C. E. Morrell, C. S. Carlson and P. V. Smith, Jr. 2,588,272, Mar. 4.
Distilling hydrocarbons. H. E. Sullenger. 2,588,305, Mar. 4.
Distortion compensating device for facsimile equipment. F. A. Hester. 2,587,617, Mar. 4.
Distortionless seismic wave filter. N. H. Ricker. 2,588,291, Mar. 4.
Distributor for watering plants. M. R. Jordan. 2,588,245, Mar. 4.
Door: *See*—
  Sliding bulkhead door.
  Weathertight sliding car door.
Door fastener. R. W. Beadle. 2,588,077, Mar. 4.
Door hinge, Adjustable. T. A. Lowman. 2,588,258, Mar. 4.
Door hinge and check. L. Kennon. 2,588,010, Mar. 4.
Door operating device, Electric overhead. J. N. McNinch. 2,588,028, Mar. 4.
Double-acting plunger press. H. W. Guettler. 2,587,997, Mar. 4.
Draft regulator. H. Hopton and L. T. Wahlstrom. 2,588,239, Mar. 4.
Drawer construction. W. A. Brewer. 2,587,691, Mar. 4.
Drawer for typewriters, including elevating typewriter supports. C. H. Ristenpart and J. F. Detmayer. 2,588,163, Mar. 4.
Drawing metal. J. A. Henricks. 2,588,234, Mar. 4.
Drier: *See*—
  Laundry drier.
Drier. C. S. O'Neil. 2,587,646, Mar. 4.
Drill. E. C. Doepker. 2,587,980, Mar. 4.
Drilling apparatus. E. Williams and J. W. Bogdanowski. 2,588,068, Mar. 4.
Drilling device. A. Sulger. 2,587,923, Mar. 4.
Drive axle and track frame mounting for crawler tractors. W. F. Wilson. 2,588,333, Mar. 4.
Drive for bicycles, High-speed. I. J. and J. P. Riga. 2,588,047, Mar. 4.
Drive mechanism for toys. A. A. Green. 2,588,109, Mar. 4.
Drive type rivet, Self-locking. J. A. Schroeder, A. W. Bower, and M. Graber. 2,587,907, Mar. 4.
Dry process for agglomerating wood particles. S. Glaubert. 2,587,992, Mar. 4.
Drying floor for storage structures. M. R. Deyo. 2,587,978, Mar. 4.
Drying photographic material. C. J. Dippel, J. A. Lely and J. A. M. Dikhoff. 2,588,218, Mar. 4.
Dynamoelectric apparatus. P. Lebenbaum, Jr., and A. Fisher. 2,588,320, Mar. 4.
Dynamoelectric machine regulating system. A. Fisher. 2,588,319, Mar. 4.
Ear clamp. J. J. Cleary. 2,587,966, Mar. 4.
Egg cleaning machine. H. A. Hutchinson and R. C. Patchett. 2,587,730, Mar. 4.
Egg packing material. A. W. Nelson and T. H. Alfreds. 2,588,150, Mar. 4.
Electric cord slack storage device. F. J. Dever. 2,587,707, Mar. 4.
Electric heater. G. C. Wicks. 2,588,314, Mar. 4.
Electric power system. J. M. Pestarini. 2,587,648, Mar. 4.
Electric seat adjuster and the like. P. F. Rossmann. 2,588,165, Mar. 4.
Electric switch. J. W. Woolf. 2,587,948, Mar. 4.
Electrical apparatus for simulating the time dependent response characteristic of neutronic reactors. H. A. Straus, P. R. Bell, Jr., and F. H. Murray. 2,587,919, Mar. 4.
Electrical ignition system. W. B. Smits. 2,587,780, Mar. 4.
Electrical paint remover. T. B. Walter. 2,588,185, Mar. 4.
Electrical precipitation apparatus. R. G. Hanneman. 2,588,111, Mar. 4.
Electrically heated chair. F. J. Irving. 2,587,731, Mar. 4.
Electrode arrangement for fence welding machines. R. C. Vorderstrasse. 2,588,062, Mar. 4.
Electrodeposition of chromium. F. A. Rojas. 2,587,651, Mar. 4.
Electrodeposition of iron in the form of continuous strips. E. H. Konrad and W. E. C. Eustis. 2,587,630, Mar. 4.
Electromagnetic device operable by alternating current. P. H. Durand. 2,587,983, Mar. 4.
Electron switching tubes and circuits therefor. E. S. Rittner, F. E. Grace, S. Fine and G. A. Beutel. 2,588,292, Mar. 4.
Electronic circuit chassis. J. Brown, B. L. Snavely and J. V. Atanasoff. 2,588,082, Mar. 4.
Electronic indicator and viewing means for two variables. W. T. O'Neil. 2,588,035, Mar. 4.
Electronic optical correction mechanism for magnetic lenses. G. Weissenberg and O. Sänger. 2,587,942, Mar. 4.
Electronic system. A. H. Dickinson, B. E. Phelps and C. A. Bergfors. 2,587,979, Mar. 4.
Emulsion coating compositions and preparing same. E. Schulte and P. C. Herzog. 2,587,657, Mar. 4.
Endless belt snapping rolls. E. K. Karlsson. 2,587,857, Mar. 4.
Engine mount. C. J. Smith and F. J. Thoms. 2,588,171, Mar. 4.
Esterification of monohydric ether alcohols. C. J. Ryan. 2,587,904, Mar. 4.
Ethylene, Production of. L. Kniel. 2,588,323, Mar. 4.
Expansible mandrel. H. D. Paxson. 2,587,885, Mar. 4.
Fastener: *See*—
  Door fastener.
  Lading tie fastener.
Fastener for apertured panels. H. W. Kost. 2,588,251, Mar. 4.
Fastening device. J. H. Jensen and D. J. Rust. 2,587,853, Mar. 4.
Faucet handle connection. C. S. Krucki. 2,587,862, Mar. 4.
Feed for cable tool drill, Automatic. J. H. Meier. 2,587,638, Mar. 4.
Feed roller. C. Johnston. 2,588,121, Mar. 4.
Feed shield for milker stalls, Movable. F. G. Hodsdon. 2,587,846, Mar. 4.
Feeder for oscillating conveyers. A. Musschoot and H. W. Regensburger. 2,588,030, Mar. 4.
Fence structure. J. L. Morris. 2,588,147, Mar. 4.
Festoon holder. W. C. Kenney. 2,588,246, Mar. 4.
Film winding control for cameras. C. E. Smith. 2,588,054, Mar. 4.
Filter: *See*—
  Distortionless seismic wave filter.
  Oil filter.
  Wave filter.
Filter. G. E. Burks and R. R. Robinson. 2,587,693, Mar. 4.
Finger release latch. H. Ter Meer and W. W. Peterson. 2,588,307, Mar. 4.
Fire alarm apparatus. M. P. Reece. 2,587,762, Mar. 4.
Fish lure, Interchangeable. P. J. Kindscher. 2,587,736, Mar. 4.
Fishing apparatus, Automatic. C. A. Airey. 2,587,675, Mar. 4.
Fishing bait, Artificial. C. O. Smith. 2,588,300, Mar. 4.
Fishing net. H. E. Schatz. 2,587,770, Mar. 4.
Fishing plug. W. A. Sleness. 2,587,658, Mar. 4.
Flaw detection method and means for carrying out the method. T. de Forest. 2,587,705, Mar. 4.
Flexible joint. J. A. Brazukas. 2,587,962, Mar. 4.
Flier construction. M. J. McHale. 2,588,266, Mar. 4.
Floodlight with watertight passageway for wiring, Pivoted. P. G. Stone. 2,587,917, Mar. 4.
Floor structure for railway freight cars. H. E. Osborn. 2,587,754, Mar. 4.
Fluid control device. F. R. McFarland, H. L. Misch and J. E. Foley. 2,588,140, Mar. 4.
Fluid handling conduit, Adjustable. D. C. Warren. 2,587,938, Mar. 4.
Fluid pressure differential responsive cutoff valve. H. C. Otis. 2,588,284, Mar. 4.
Flush tank valve operating mechanism. H. Bachli and H. S. Shapiro. 2,588,072, Mar. 4.
Fly ash arrester. W. B. McBurney. 2,588,138, Mar. 4.
Flyer mechanism for toroidal coil winding machines. R. H. McCarthy. 2,588,139, Mar. 4.
Folding and stacking chair. E. D. Oakes. 2,587,881, Mar. 4.
Food processing apparatus. W. A. Webb. 2,587,939, Mar. 4.
Forging. M. P. Lefere. 2,587,864, Mar. 4.
Four wheel trailer vehicle. J. J. Black. 2,588,078, Mar. 4.
Fractionator reflux control method. C. P. Stanley. 2,588,303, Mar. 4.
Fracturable seal. A. H. Taylor, Jr. 2,588,306, Mar. 4.
Frequency measuring or indicating apparatus. D. Packard and N. B. Schrock. 2,587,755, Mar. 4.
Friction disk and making same. H. Wirth. 2,587,945, Mar. 4.
Friction type clutch. C. C. De Pew. 2,587,823, Mar. 4.
Fruit whip. D. K. Tressler. 2,588,308, Mar. 4.
Fuel burner. H. Cowan. 2,587,700, Mar. 4.
Fur sewing machine. F. L. Olday. 2,588,281, Mar. 4.
Furnace: *See*—
  Continuous type furnace.
  Tiltable induction furnace.
Furniture, Convertible. J. A. Arton. 2,588,071, Mar. 4.
Fuse igniting and connecting device. J. B. Chalmers and F. H. G. McCaffrey. 2,587,694, Mar. 4.
Garment finisher, Selectively operated. E. C. Maurer. 2,587,745, Mar. 4.
Garment, Foundation. F. Sider. 2,587,911, Mar. 4.
Garment hanger. R. H. Herrick. 2,588,235, Mar. 4.
Gas burner and flame deflector. V. R. Abrams. 2,587,802, Mar. 4.
Gas treatment and apparatus therefor. G. F. Russell, Jr. 2,588,296, Mar. 4.
Gasifying carbonaceous fuels. F. T. Barr, B. E. Roethell, and W. G. Scharmann. 2,588,075, Mar. 4.

Gasifying fuels. E. J. Gohr. 2,588,076, Mar. 4.
Gauge: *See*—
Adjustable ring gauge. Universal scratch gauge.
Gauge block finishing. R. Gaerlich. 2,588,227, Mar. 4.
Gauging and marking device. A. T. Shack and W. L. Zemberry. 2,587,774, Mar. 4.
Gauss meter. L. I. Mendelsohn. 2,588,143, Mar. 4.
Gem stone for articles of jewelry. G. W. Crise. 2,587,972, Mar. 4.
Generator: *See*—
Piston type sound generator. Pulse generator.
Germanium crystal rectifiers and producing the crystal element thereof. D. E. Jones and J. W. Ryde. 2,588,008, Mar. 4.
Grenade launcher valve. J. C. Garand. 2,587,611, Mar. 4.
Grinder. E. Margolin. 2,588,025, Mar. 4.
Grinder, Garbage. C. W. Van Ranst. 2,588,182, Mar. 4.
Grinding machine. A. D. Appleby. 2,587,952, Mar. 4.
Guide and routing device for portable woodworking machines. E. J. Gregory. 2,587,994, Mar. 4.
Guide spring for combination storm windows and screens. J. A. Robinson and V. Agnifilo. 2,587,902, Mar. 4.
Gun perforator. O. W. Githens, T. W. Smith, and D. C. Whitaker. 2,587,723, Mar. 4.
Haircutting and trimming device. P. P. Burns. 2,587,964, Mar. 4.
Hammer head for rotary beaters, Detachable. A. J. Roubal. 2,587,767, Mar. 4.
Handle: *See*— Starter handle.
Magazine tool handle.
Hanger: *See*—
Adjustable shaft hanger. Garment hanger.
Coat hanger.
Hearth kit. L. R. Nelson. 2,587,880, Mar. 4.
Heat detecting cable. D. R. Squier. 2,587,916, Mar. 4.
Heat exchange device. L. H. Fritzberg. 2,587,720, Mar. 4.
Heater: *See*—
Electric heater.
Heat-treatment of metals. A. G. E. Robiette. 2,587,900, Mar. 4.
Heating apparatus. A. W. Ziegler. 2,588,315, Mar. 4.
Heparin, Producing. E. M. Taylor and P. J. Moloney. 2,587,924, Mar. 4.
High-frequency gas discharge device. W. M. Webster, E. O. Johnson, and L. Malter. 2,588,065, Mar. 4.
High-frequency induction heating apparatus. H. F. Storm. 2,588,304, Mar. 4.
High-frequency phase angle responsive circuit. J. Vahle, F. E. Goodness, and P. D. Heath. 2,588,181, Mar. 4.
High temperature high strength alloys. P. Payson. 2,587,613, Mar. 4.
Higher alcohols from aldehydes. E. Field and B. L. Hill. 2,587,576, Mar. 4.
Hinge construction for parking meter doors, Disconnectible. T. J. Morgan and C. M. Moore. 2,588,271, Mar. 4.
Hinged fixture supporting bracket. P. F. Simpson. 2,587,912, Mar. 4.
Hitch for direct connected implements, Adjustable. E. J. Rimple. 2,587,763, Mar. 4.
Hoist for conveying loads to moving platforms. C. F. Brereton. 2,587,690, Mar. 4.
Hoisting equipment. W. H. Thompson. 2,588,178, Mar. 4.
Holder: *See*—
Festoon holder. Sponge counter holder.
Lipstick holder.
Holder for magazine type razors. G. D. Jones and L. C. Miller. 2,587,625, Mar. 4.
Hollow fluorescent character and mounting. J. Vigon. 2,588,183, Mar. 4.
Hood for divers' suits. A. Belloni. 2,587,958, Mar. 4.
Hopper bottom load discharging car. A. E. Zimmer. 2,588,316, Mar. 4.
Horizontal fire tube welded boiler. H. L. Hosking. 2,587,849, Mar. 4.
House trailer heating system. J. and J. C. May. 2,587,871, Mar. 4.
Hub motor with coupling. J. J. Geesink. 2,588,229, Mar. 4.
Hydraulic cementitious mixtures and making. A. Klein. 2,588,248, Mar. 4.
Hydraulic pressure power device. F. Adams. 2,587,803, Mar. 4.
Hydraulically operated mobile weed and brush cutter. E. W. Holmes. 2,588,002, Mar. 4.
Hydraulically operated reciprocating sickle mechanism. E. W. Holmes. 2,588,003, Mar. 4.
Hydrolysis process. J. E. Cleland. 2,587,596, Mar. 4.
Hydrotherapy tank. L. B. Newman. 2,587,644, Mar. 4.
Hydroxy-carboxylic-acids, Preparation of. H. Schmidt. 2,587,906, Mar. 4.
Hypodermic needle honing device. J. B. G. Custis and E. R. Post. 2,588,089, Mar. 4.
Ice cube support. E. D. Ekkebus, J. C. Gallagher, and R. Zapfel. 2,588,222, Mar. 4.
Icing machine. H. O. McLain. 2,587,872, Mar. 4.
Identification card. N. Whitehead. 2,588,067, Mar. 4.
Ignition system for internal-combustion engines. G. R. Hofmann. 2,587,847, Mar. 4.
Illumination for ice skating rinks. O. F. Johnson. 2,587,855, Mar. 4.
Image-converting device. G. S. P. Freeman. 2,587,830, Mar. 4.
Impact, pulverizing apparatus having fluid jets firing toward a common point. A. J. Fisher. 2,587,609, Mar. 4.
Impact tool. C. D. Williams. 2,587,944, Mar. 4.
Improving lubricants and lubricating oil additives. E. C. Hughes and J. D. Bartleson. 2,587,621, Mar. 4.
Impulse metering device. E. Podskalsky. 2,588,287, Mar. 4.
Indicator: *See*—
Load stroke indicator. Valve indicator.
Measuring and marking height indicator.
Indicator label. H. Friedler. 2,587,989, Mar. 4.
Indicator light for control switches. I. R. Latta. 2,588,129, Mar. 4.
Inductively coupled compensator. E. Toth. 2,587,667, Mar. 4.
Inductor alternator. S. F. Stewart and A. D. Gilchrist. 2,588,175, Mar. 4.
Industrial and papermakers' felt and producing the same. P. T. Gates. 2,588,228, Mar. 4.
Inner tube for tires. A. Elras. 2,588,097, Mar. 4.
Insect repellents containing a chlorobutyroamide. O. W. Bauer and J. W. Teter. 2,587,957, Mar. 4.
Instrument, Leveling. N. D. Nachtrieb. 2,587,878, Mar. 4.
Instrument, Single string musical. J. A. Kalosy. 2,587,735, Mar. 4.
Integrating counter. W. C. Grabau. 2,588,107, Mar. 4.
Interlock for calculating machine control keys. J. M. Laiho. 2,588,127, Mar. 4.
Intermediate compounds in the synthesis of dehydrocorticosterone. E. C. Kendall. 2,587,579, Mar. 4.
Iodinated 2-acylamino benzoyl derivatives of amino acids. V. H. Wallingford. 2,587,936, Mar. 4.
Ion source. G. W. Pallette. 2,587,647, Mar. 4.
Isolation of nickel sulfide. P. J. McGauley. 2,588,265, Mar. 4.
Jaw crusher with hydraulic release and reset device. S. W. Traylor, Jr. 2,588,180, Mar. 4.
Jig for pivotally suspending articles. K. M. Larsen. 2,588,128, Mar. 4.
Joint: *See*—
Flexible joint. Railway switch joint.
Jointed fluorescent lamp fixture which may be collapsed for shipment. L. Mided and H. C. Gorden. 2,588,144, Mar. 4.
Journal box and hydraulic safety valve therefor. I. I. Cameron and B. C. Spransy. 2,588,204, Mar. 4.
Keyed shaft coupling. E. C. Webb. 2,588,064, Mar. 4.
Kiln for the recovery of acid values, Rotary. H. Miley. 2,587,639, Mar. 4.
Kite, Single piece. F. L. Roe. 2,588,293, Mar. 4.
Knitting machine and operating same, Straight bar. F. Lambach. 2,587,632, Mar. 4.
Ladder, Adjustable offset. W. C. Smith. 2,587,659, Mar. 4.
Lading tie fastener. G. F. Oakley. 2,587,882, Mar. 4.
Lamp with rotatable shade and mirror, Wall. A. E. Wiedenhoeft. 2,587,941, Mar. 4.
Latch: *See*—
Finger release latch.
Latch. V. J. Acuazzo. 2,587,582, Mar. 4.
Latch dampening device. G. B. Dorey. 2,588,219, Mar. 4.
Latch mechanism. H. R. Linderfelt. 2,587,867, Mar. 4.
Latch retracting device for doors. G. G. Griffiths. 2,588,108, Mar. 4.
Laundry drier. C. S. O'Neil. 2,587,645, Mar. 4.
Lawn trimmer and shrubbery pruner. A. N. Bernardi. 2,587,586, Mar. 4.
Lead cable sheath alloy. J. F. Eckel. 2,588,095, Mar. 4.
Leaf hinge. S. B. Caldwell and E. Hurley. 2,587,818, Mar. 4.
Lever adjuster for casement windows. R. S. Brownie. 2,587,963, Mar. 4.
Lifter: *See*—
Block lifter.
Light: *See*—
Dental light.
Light projecting apparatus. R. C. Bastien. 2,587,956, Mar. 4.
Lighter. E. G. Gessmann. 2,588,231, Mar. 4.
Lighting fixture with detachable light control panel. W. W. Stubbs. 2,587,920, Mar. 4.
Lighting unit, High-intensity. V. L. Oestnaes. 2,588,154, Mar. 4.
Lime spreader. B. T. Aasland and J. V. Webster. 2,587,678, Mar. 4.
Lipstick holder. H. P. Manville. 2,588,024, Mar. 4.
Liquid fuel burning unit of the bowl or pot type. M. Resek, J. A. Dahlstrom, and A. Bolz. 2,588,045, Mar. 4.
Liquid fuel meter. J. B. Davis, Jr. 2,587,701, Mar. 4.
Liquid measuring apparatus. N. M. Thomas. 2,588,057, Mar. 4.
Liquid mixing device. J. H. Larsh. 2,588,255, Mar. 4.
Litter control for vacuum cleaners. J. J. Bevington. 2,588,198, Mar. 4.
Live bait box. F. C. Rhodes. 2,587,899, Mar. 4.
Load binder. F. A. Mockel. 2,587,874, Mar. 4.
Load stroke indicator. H. B. King. 2,587,628, Mar. 4.
Loading means for pressure regulators. S. W. Hoskins. 2,587,728, Mar. 4.

Locating leaks in well bores. O. W. Crisman and A. J. Teplitz. 2,588,210, Mar. 4.
Lock: *See*—
Attack defeating combination lock. Tumbler lock.
Telephone lock. Window lock.
Lock means for door control mechanism. E. L. Allen, A. R. De Vito, and H. B. Muster. 2,587,583, Mar. 4.
Log handling apparatus. H. L. Baldwin. 2,587,681, Mar. 4.
Lounging chair. C. W. Morris. 2,588,029, Mar. 4.
Louver. J. L. Reid. 2,587,898, Mar. 4.
Lubricants and additives for lubricating oils and greases. J. M. Musselman and H. P. Lankelma. 2,587,642, Mar. 4.
Lubricator: *See*—
Self-feeding lubricator.
Lubricating composition. R. O'Halloran. 2,588,279, Mar. 4.
Lubricating compositions. A. J. Morway and P. V. Smith, Jr. 2,588,273, Mar. 4.
Lubricating grease. R. O'Halloran and J. J. Kolfenbach. 2,588,280, Mar. 4.
Machine for cutting textiles. R. T. Korolyshun and F. J. Sullivan. 2,588,016, Mar. 4.
Machine for manufacturing match splints. O. Schnellmann. 2,587,655, Mar. 4.
Machine for packing bottles with relatively small objects. R. Althoff. 2,587,584, Mar. 4.
Machine for the manufacture of fiber footwear. S. W. Lippitt. 2,588,132, Mar. 4.
Magazine tool handle. P. F. Riggio. 2,588,162, Mar. 4.
Magnetic cores, Making. G. G. Somerville. 2,588,173, Mar. 4.
Magnetic pulley. W. C. Potthoff. 2,587,891, Mar. 4.
Mailbox support. A. C. Jung. 2,587,856, Mar. 4.
Making a fibrous preform, Method and apparatus for. G. W. Borkland. 2,587,814, Mar. 4.
Making glass. W. J. Smith. 2,587,914, Mar. 4.
Making lenses, Process and apparatus for. R. R. G. Touvay. 2,587,926, Mar. 4.
Making tire ply bands, Method and apparatus for. F. B. Cleland, W. Baranecky, C. R. Kolk, and P. E. Wetzel. 2,588,207, Mar. 4.
Material loading apparatus. C. F. Osgood. 2,588,283, Mar. 4.
Material storage and handling apparatus. F. P. Johnson. 2,587,854, Mar. 4.
Matrix band retainer for anterior teeth and traction instruments therefor. B. F. Toffemire. 2,588,059, Mar. 4.
Means to separate water and foreign substances from steam. J. V. Pyle. 2,587,761, Mar. 4.
Measuring and leveling apparatus, Hydrostatic. M. R. Heath. 2,587,998, Mar. 4.
Measuring and marking height indicator. S. T. Lester. 2,588,131, Mar. 4.
Measuring heat flow during quenching of metals, Method and apparatus for. L. D. Jaffe. 2,587,622, Mar. 4.
Mechanical cloth-laying apparatus. A. Bieber. 2,587,811, Mar. 4.
Mechanism control. R. S. Hinsey. 2,587,725, Mar. 4.
Metal awning structure. M. J. Kersey. 2,588,011, Mar. 4.
Metal hydrides, Making. A. S. Newton. 2,588,153, Mar. 4.
Metal powder, Production of. H. A. Golwynne. 2,587,614, Mar. 4.
Meteorological apparatus. L. E. Wood. 2,587,946, Mar. 4.
Meter: *See*—
Direct reading color temperature meter. Gauss meter.
Liquid fuel meter.
Meter house. J. Miller and J. W. Workman. 2,588,270, Mar. 4.
Method and apparatus for the manufacture of carpets. C. G. Lemon and E. T. C. Brinton. 2,588,130, Mar. 4.
Method of and apparatus for extruding. C. Uschmann. 2,587,930, Mar. 4.
Microphone, Directional. B. B. Bauer. 2,587,684, Mar. 4.
Milking machine. D. F. Ayres. 2,587,680, Mar. 4.
Modulation system and method. B. Fox. 2,587,718, Mar. 4.
Monoscope target for pickup tubes. H. B. Law. 2,588,019, Mar. 4.
Mop construction, Detachable dust. E. A. Smith. 2,587,913, Mar. 4.
Motor-driven cutting and breaking machine. W. V. Cornett. 2,587,969, Mar. 4.
Motor overload protector terminal structure. P. C. Talmadge, J. D. Zartman, and R. E. Prouty. 2,587,789, Mar. 4.
Motor valve and positioner apparatus. R. M. Witt. 2,587,800, Mar. 4.
Mounting: *See*—
Alternator and rectifier mounting. Ophthalmic mounting.
Sink mounting.
Mounting device for wall mirrors. N. B. Jones. 2,588,009, Mar. 4.
Mounting film on cards, Method and apparatus for. R. Connor and H. E. Hooe. 2,588,087, Mar. 4.
Mounting means for bolt-actuated switches. B. Boodakian. 2,588,080, Mar. 4.
Muffling mechanism for compressor valves. L. Hanson. 2,588,112, Mar. 4.
Multiple rolling mechanism. J. J. Ingels. 2,588,120, Mar. 4.
Musical instrument construction. G. A. Finder. 2,588,101, Mar. 4.
Needle holding means for hypodermic needle honing devices or the like. E. R. Post. 2,588,160, Mar. 4.
Nonjamming conveyer means. G. M. Biner. 2,587,959, Mar. 4.
Nozzle, Foam distributor. R. P. Walker. 2,588,312, Mar. 4.
Nozzle, Spray. S. P. Kinney, C. J. Garrigan, and W. W. Clarke. 2,588,247, Mar. 4.
Nursing unit. A. M. Allen. 2,588,069, Mar. 4.
Oil can drain rack. M. F. Smith. 2,587,779, Mar. 4.
Oil cooler. J. E. Woods. 2,587,801, Mar. 4.
Oil filter. C. J. Rood. 2,587,903, Mar. 4.
Oil well drilling apparatus. G. P. Wagner. 2,588,311, Mar. 4.
1-p-nitrophenyl-2-dihaloacetamidopropane-1,3-diol cyclic carbonate and sulfite. G. W. Moersch and A. C. Moore. 2,587,641, Mar. 4.
Operating means for the plunger of cushion filling machines. H. Ferrier and N. J. Nish. 2,587,826, Mar. 4.
Ophthalmic mounting. A. K. Marsters. 2,587,870, Mar. 4.
Ore sorting system. R. R. Berry. 2,587,686, Mar. 4.
Organosilicon aldehydes and preparing the same. C. A. Burkhard and D. T. Hurd. 2,588,083, Mar. 4.
Overboard discharge chute. J. D. Vining. 2,587,932, Mar. 4.
Overload released clutch. A. Y. Dodge. 2,587,712, Mar. 4.
Oxidation carrier for the oxidation of hydrocarbons. C. S. Lynch and E. S. Corner. 2,588,260, Mar. 4.
Oxidation of aromatic compounds containing oxygenated side chains. W. G. Toland, Jr. 2,587,666, Mar. 4.
Oxygenated compounds, Production of. A. I. M. Keulemans. 2,587,858, Mar. 4.
Package delivery chute. P. T. McQueen. 2,588,142, Mar. 4.
Package spout. T. H. Fengler. 2,587,716, Mar. 4.
Pallet hoist attachment. R. P. Sturgis. 2,588,330, Mar. 4.
Pan lid to absorb grease. M. W. and F. A. Sell. 2,587,773, Mar. 4.
Paper punch. W. H. Misson. 2,587,749, Mar. 4.
Parachute attachment for model gliders. W. J. Cotter. 2,587,699, Mar. 4.
Pen. H. Kochendoerffer. 2,588,015, Mar. 4.
Pen device, Retractable. F. C. Wallace. 2,587,935, Mar. 4.
Pen, Fountain. H. H. Zodtner. 2,587,949, Mar. 4.
Pencil, Mechanical lead. K. J. Svensson. 2,587,786, Mar. 4.
Pentachlorodimethoxymethanotetrahydroindene. J. W. Dawson and W. J. Croxall. 2,588,215, Mar. 4.
Permanent magnet roll. A. C. Clouse. 2,588,085, Mar. 4.
Phenolic resins that produce light-colored varnish coatings, Preparation of. J. L. Jones. 2,587,578, Mar. 4.
Phonograph tone arm supporting and adjusting arrangement. L. C. Ammlung, Jr. 2,587,677, Mar. 4.
Photoelectric and thermoelectric device utilizing semiconducting material. K. Lark-Horovitz, S. Benzer, and R. E. Davis. 2,588,254, Mar. 4.
Photographic toning and resensitizing process. A. M. Gundelfinger. 2,587,841, Mar. 4.
Picture art set. A. Hahn. 2,588,321, Mar. 4.
Pin: *See*—
Self-lubricating hinge pin.
Pipe chuck. W. B. Pridy and R. C. Howard. 2,587,893, Mar. 4.
Pipe clamp. G. B. Webster. 2,587,940, Mar. 4.
Piston type sound generator. C. B. Horsley and G. C. Seavey. 2,587,848, Mar. 4.
Pitman bearing. E. Duhain. 2,587,825, Mar. 4.
Pivoted ventilator window of motor road vehicles. J. R. Stanfield and L. N. Hughes. 2,587,781, Mar. 4.
Planimetry and quadrature, Method and apparatus for. J. DeMent. 2,587,976, Mar. 4.
Plug: *See*—
Fishing plug. Tumbler lock plug.
Pneumatic control. T. G. A. Sillers. 2,588,329, Mar. 4.
Pneumatic operating means for railway dump cars. E. O. Lunde. 2,588,133, Mar. 4.
Pneumatically powered hydraulic pump. J. A. Roberts, H. R. Fischer, and M. P. D'Haem. 2,588,164, Mar. 4.
Portable display. B. Corn, Jr., and C. D. Roscher. 2,587,698, Mar. 4.
Powder measuring device with micrometer adjustment. H. W. Brown. 2,587,692, Mar. 4.
Power-operated register resetting mechanism for gasoline dispensing pumps. C. A. P. Thomas. 2,587,925, Mar. 4.
Precast reinforced concrete unit. A. Henderson. 2,587,724, Mar. 4.
Preparing a drying oil by dehydrochlorination. D. A. Berry. 2,587,588, Mar. 4.
Presence of crown detectors. G. P. Stout. 2,587,664, Mar. 4.
Preservation of ether. E. Mallinckrodt, Jr., and A. E. Rueble. 2,587,744, Mar. 4.
Press: *See*—
Double-acting plunger press.
Press for macaroni. L. Barbieri. 2,588,196, Mar. 4.
Pressure chamber liquid control unit. P. J. McCullough. 2,587,747, Mar. 4.
Pressure converter system and apparatus therefor. E. A. Rockwell. 2,588,048, Mar. 4.

Pressure-vacuum control valve. J. H. Wiggins. 2,587,943, Mar. 4.
Printing apparatus. C. H. Gilbert. 2,587,612, Mar. 4.
Printing textile fabrics with vat dyes. A. K. Saville. 2,587,905, Mar. 4.
Processing liquid hydrocarbons. W. W. Weinrich. 2,587,669–70, Mar. 4.
Protection of hydraulic power presses. S. M. Weisberg. 2,588,066, Mar. 4.
Pulse generator. D. J. Epstein. 2,588,098, Mar. 4.
Pulse shaping circuit. L. J. Libois. 2,587,741, Mar. 4.
Pulsing circuit. E. W. Houghton. 2,588,240, Mar. 4.
Pump: *See*—
Pneumatically powered hydraulic pump. — Rotary pump.
Punch and cutter, Combined. I. and M. S. Rabinowitz. 2,588,043, Mar. 4.
Purification of rutin. J. F. Couch and C. F. Krewson. 2,587,600, Mar. 4.
Purifying alcohols. B. O'Connor and F. G. Pearce. 2,587,753, Mar. 4.
Quick tightening machine-tool vise. A. A. Bahuaud. 2,588,073, Mar. 4.
Rack: *See*—
Calendar rack. — Oil can drain rack.
Radar system, Directional. B. Fox. 2,587,610, Mar. 4.
Radio communication system. J. C. O'Brien and H. C. Sibley, Jr. 2,588,031, Mar. 4.
Rail flaw detector mechanism. R. N. Straehl. 2,587,785, Mar. 4.
Railway brake beam. I. J. Spaeth. 2,587,915, Mar. 4.
Railway switch joint. W. G. Morris. 2,588,148, Mar. 4.
Razor and hair trimmer, Combination. J. A. O'Gatty. 2,588,033, Mar. 4.
Razor, Safety. O. H. Crowell. 2,588,211, Mar. 4.
Reactor assembly. C. F. Lauenstein. 2,588,018, Mar. 4.
Reading adjustment for an indicating instrument in hermetically sealed cases. J. F. Veevers and H. C. Turner. 2,587,668, Mar. 4.
Recorder head. F. W. Roberts and F. L. Franz. 2,588,327, Mar. 4.
Recovering magnesia. R. A. Schoenlaub. 2,587,656, Mar. 4.
Recovery of acid values from petroleum refining sulfuric acid sludges. H. Miley. 2,587,640, Mar. 4.
Recovery of alkylation sludge acids. N. Titlestad. 2,588,331, Mar. 4.
Rectifier connection. H. Öfverholm and H. Forssell. 2,588,155, Mar. 4.
Reduction of oxygenated thiophene compounds. I. Wender and M. Orchin. 2,587,671, Mar. 4.
Refuse palm oil refining. V. K. Babayan. 2,587,954, Mar. 4.
Register, Hot-air. B. Levin. 2,587,633, Mar. 4.
Regulator: *See*—
Draft regulator.
Regulator for pulp and paper stocks, Automatic consistency. E. A. Poirier. 2,587,760, Mar. 4.
Relay for alternating-current motors. A. J. Lewus. 2,588,257, Mar. 4.
Relief valve. A. R. Olson. 2,588,157, Mar. 4.
Remote control apparatus. A. P. Davis and G. Agins. 2,588,213, Mar. 4.
Removal of pigments from printed textiles and agents useful therein. A. A. Cook and I. Sapers. 2,587,597, Mar. 4.
Resilient stop for screw elevators. C. Panter. 2,587,757, Mar. 4.
Resinous copolymerization products from aromatic fulvenes. R. B. Thompson and H. S. Bloch. 2,587,791, Mar. 4.
Resistance thermometer bulb. K. J. Knudsen. 2,588,014, Mar. 4.
Resistor type flame detector. J. A. Deubel. 2,587,977, Mar. 4.
Rest or support for cigarettes and cigars. M. F. Connellan. 2,588,208, Mar. 4.
Rhubarb cleaning machine. F. H. Rohrbach. 2,587,764, Mar. 4.
Ring: *See*—
Spinning and twisting ring.
Rodent trap. R. Merkl. 2,587,748, Mar. 4.
Rotary pump. J. H. O'Brien. 2,588,032, Mar. 4.
Rotatable Christmas tree stand. C. F. Tacy. 2,587,788, Mar. 4.
Rotisserie and oven, Combination. E. Dornbush. 2,588,091, Mar. 4.
Rounding the tips of bristles. C. H. von Sivers. 2,587,792, Mar. 4.
Rubber cushion drive coupling. T. H. Peirce. 2,588,158, Mar. 4.
Rubber drive for printing hammers. C. G. Dudis. 2,587,824, Mar. 4.
Safety control device. J. H. Thornbery. 2,588,179, Mar. 4.
Safety device for looms. J. Dunod. 2,587,982, Mar. 4.
Scale, Weighing. C. G. Herbst. 2,588,322, Mar. 4.
Screen leveling device for harvesters. W. L. Stout. 2,587,918, Mar. 4.
Screen stretching tool. T. D. Picton. 2,587,889, Mar. 4.
Screw closure with retaining means for containers. A. Nadal. 2,588,275, Mar. 4.
Screw slotter. W. C. Anderson. 2,587,951, Mar. 4.
Sealed lens phototube. R. W. Bordewieck. 2,587,589, Mar. 4.
Sealing device for meters and the like. R. F. Moore. 2,587,876, Mar. 4.
Sealing head mechanism for closing and sealing bags and flexible containers. J. E. Socke. 2,587,663, Mar. 4.
Seam opening attachment. J. Katz and F. P. Majoros. 2,587,626, Mar. 4.
Seat: *See*—
Adjustable height vehicle seat. — Tractor seat.
Seat for automobiles, Adjustable. D. S. Atkinson. 2,587,679, Mar. 4.
Sediment settling and removing device. H. W. Hapman. 2,588,233, Mar. 4.
Sedimentation device. D. K. Hines. 2,588,115, Mar. 4.
Seed treater. B. C. Dill. 2,587,708, Mar. 4.
Selective hydrodesulfurization process. L. U. Franklin. 2,587,987, Mar. 4.
Selective turbopropeller jet power plant for aircraft. F. Pope. 2,587,649, Mar. 4.
Self-feeding lubricator. E. Martin. 2,588,026, Mar. 4.
Self-lubricating hinge pin. M. De Graaf. 2,588,216, Mar. 4.
Separating dust from a gas. G. H. Frangquist. 2,588,106, Mar. 4.
Separation of acetylene from gaseous hydrocarbon mixtures. E. O. Box, Jr. 2,587,689, Mar. 4.
Separation of hydrogen halides from olefinically unsaturated compounds. H. A. Cheney and J. H. Raley. 2,587,595, Mar. 4.
Separation of metal values in fluoride compositions. M. A. Perkins and M. Couper. 2,588,041, Mar. 4.
Separation of propene and propane by extractive distillation. J. W. Teter and E. W. Shand. 2,588,056, Mar. 4.
Separation of propene and propane by extractive distillation. S. J. Wayo, J. W. Teter, and E. W. Shand. 2,588,063, Mar. 4.
17-hydroxysteroids, The production of. G. Rosenkranz and S. Kaufmann. 2,588,294, Mar. 4.
Sewing machine. C. W. Mueller. 2,588,274, Mar. 4.
Sewing machine and drive with support therefor. A. C. Peterson and W. O. Will. 2,587,887, Mar. 4.
Shampoos, Preparation of. H. I. Bernstein and C. F. Fuchs. 2,588,197, Mar. 4.
Shear relief valve. A. S. Volpin. 2,587,933, Mar. 4.
Sheet metal brake. H. Leiser. 2,587,865, Mar. 4.
Shell holder for single shot rifles. C. C. Suite. 2,587,921, Mar. 4.
Shirt collar support. W. R. Kohl and A. L. Iverson. 2,587,860, Mar. 4.
Shoe having an upper formed of strap members each secured by a flat fastener member. K. Veselý. 2,588,061, Mar. 4.
Shoe sole straightener. D. C. Crawford. 2,587,971, Mar. 4.
Side-fed forming press for elongated workpieces and feed and discharge mechanism therefor. D. O. McCall. 2,588,325, Mar. 4.
Sign: *See*—
Display sign.
Signal system for elevators. D. Schultz. 2,588,299, Mar. 4.
Signaling apparatus, Liquid level. F. A. Forero. 2,588,102, Mar. 4.
Sink mounting. L. L. Bair. 2,588,074, Mar. 4.
Sizing roll construction for potato graders. A. J. Troyer. 2,588,309, Mar. 4.
Skinning method. F. J. Coad. 2,587,967, Mar. 4.
Slave cylinder assembly. H. L. Frick. 2,587,832, Mar. 4.
Sliding bulkhead door. F. M. Lambert. 2,587,863, Mar. 4.
Snow removal apparatus. J. Pepi. 2,588,039, Mar. 4.
Snow removing machine. N. N. Fratini. 2,587,719, Mar. 4.
Solvent extraction combination. R. T. Anderson. 2,588,070, Mar. 4.
Sound insulation board. P. A. Palmér. 2,587,884, Mar. 4.
Spaced-pulse impulse sender. C. A. Lovell and D. B. Parkinson. 2,587,635, Mar. 4.
Spacing mechanism for slide fastener machines. E. E. Teubner. 2,588,177, Mar. 4.
Speaker and heater unit for drive-in theaters. M. S. Cole. 2,588,086, Mar. 4.
Speed and torque sensitive governor. W. A. Duffield. 2,587,981, Mar. 4.
Speed changing device for spinning frames. T. G. Rayfield. 2,587,897, Mar. 4.
Speed controlled governor. M. Hurst. 2,588,119, Mar. 4.
Spinning and twisting ring. G. F. Albrecht. 2,588,193, Mar. 4.
Spinning apparatus. R. H. Roughsedge and H. G. Lustig. 2,587,768, Mar. 4.
Spinning filaments and spinneret for use therewith. R. S. Bley. 2,588,200, Mar. 4.
Spinning spindle mechanisms, in particular to those driven by means of a worm and worm wheel. L. Birkigt. 2,587,812, Mar. 4.
Splicing paper. L. M. Germain. 2,587,833, Mar. 4.
Spline adapter coupler. P. C. Green. 2,587,838, Mar. 4.
Sponge counter holder. T. W. Halliday. 2,588,110, Mar. 4.
Spotlight, Ball swivel base. A. G. Lampe. 2,588,252, Mar. 4.
Spray gun air cap. W. Gray. 2,587,993, Mar. 4.

Sprayer, Insecticide. J. M. Campbell. 2,587,965, Mar. 4.
Spring grip pipe coupling. W. O. Beyer. 2,587,810, Mar. 4.
Spring suspension. J. R. Kirkpatrick. 2,588,012, Mar. 4.
Stabilized plastic type confection and making the same. J. J. Alikonis. 2,587,806, Mar. 4.
Stable emulsions of lipoidic substances in water, Preparing. E. H. Reerink and J. Van Der Vliet. 2,588,290, Mar. 4.
Stand: *See*—
Bicycle kick stand.
Rotatable Christmas tree stand.
Starter handle. W. T. Stearn. 2,587,783, Mar. 4.
Steady rest. L. D. Tyson. 2,587,929, Mar. 4.
Steam iron reservoir water supply and water discharge means. F. E. Finlayson. 2,587,608, Mar. 4.
Steam iron water reservoir water discharge control means. A. G. Swenson. 2,587,665, Mar. 4.
Steel, Manufacture of. F. B. Waldron. 2,587,793, Mar. 4.
Stencil frame for screen printing. T. Bily. 2,588,199, Mar. 4.
Sterilizing biological liquids. J. O. Erickson, R. F. Stamm, and R. L. Libby. 2,588,223, Mar. 4.
Stretcher, Curtain. K. J. Unwin. 2,588,332, Mar. 4.
Striker for igniters. C. D., A. J., and C. Schermuly. 2,588,167, Mar. 4.
Structural beam end connection. G. D. Fish. 2,588,225, Mar. 4.
Suction cleaner. D. C. Gerber. 2,587,991, Mar. 4.
Suction cleaner with brush for cleaning walls. A. R. Hines. 2,588,000, Mar. 4.
Superopaque enamel. B. Kopelman and E. Wainer. 2,588,250, Mar. 4.
Superregenerative receiver. B. D. Loughlin. 2,588,021, Mar. 4.
Superregenerative superheterodyne wave-signal receiver. B. D. Loughlin. 2,588,022, Mar. 4.
Support: *See*—
Ice cube support. — Shirt collar support.
Mailbox support.
Suspension device for curtains, draperies, or the like. K. T. Irving. 2,588,243, Mar. 4.
Suspension insulator for high-tension conductors. R. G. Bellezza and G. M. Ruoff. 2,587,587, Mar. 4.
Switch: *See*—
Electric switch.
Synthetic lubricant. E. Arundale and J. P. Thorn. 2,588,194, Mar. 4.
Synthetic thread, Process and apparatus for the production of. H. Hofmann. 2,587,619, Mar. 4.
Syringe. P. S. Madsen. 2,588,135, Mar. 4.
System for guiding airplanes in flight. D. T. Griggs. 2,587,995, Mar. 4.
T-square. P. F. Boehm. 2,588,079, Mar. 4.
T-tube for controlled intubation and drainage of the common bile-duct. A. G. Shulman. 2,587,910, Mar. 4.
Table and paper roll support for preparing paper for hanging. G. E. Duff. 2,588,092, Mar. 4.
Tagline mechanism. P. A. Orton, Sr. 2,588,037, Mar. 4.
Tailpiece for stringed instruments. H. V. Hogne. 2,588,238, Mar. 4.
Tampon applicator. C. A. Fourness. 2,587,717, Mar. 4.
Tangential cylinder valve. D. G. Debo. 2,587,704, Mar. 4.
Tank: *See*—
Hydrotherapy tank.
Target aircraft hit indicating system. C. D. Fairchild, P. M. Gross, and M. E. Hobbs. 2,587,715, Mar. 4.
Telephone lock. J. Stranch. 2,588,176, Mar. 4.
Telephone system. A. J. Busch and H. J. Michael. 2,587,817, Mar. 4.
Telescope for image projectors, Viewing. W. Borberg. 2,588,201, Mar. 4.
Temperature control system. E. A. Jones. 2,587,733, Mar. 4.
Textile intermediate product and manufacturing the same. V. Mössmer. 2,587,877, Mar. 4.
Thermostatic control device. H. H. Everhard. 2,588,224, Mar. 4.
Thread guide for creels. C. P. and A. P. Smith. 2,588,053, Mar. 4.
3-isopropoxy phenothiazine. N. L. Smith. 2,587,662, Mar. 4.
Tiltable induction furnace. A. H. Horswell and A. H. Horswell, Jr. 2,587,727, Mar. 4.
Tin plate, Manufacture of. J. G. Donelson and V. W. Vaurio. 2,587,605, Mar. 4.
Tire patch. L. L. Pierce and E. J. White. 2,587,759, Mar. 4.
Titanium-molybdenum-chromium alloys. R. I. Jaffee. 2,588,007, Mar. 4.
Toaster, Automatic. I. Edelman. 2,588,221, Mar. 4.
Toaster, Automatic electric. D. J. J. Federico. 2,588,100, Mar. 4.
Toaster, Electric. C. C. Coons and O. B. Sutton. 2,587,968, Mar. 4.
Tobacco smoking pipe and igniter, Combined. G. F. O'Neill, Jr. 2,588,034, Mar. 4.
Toggle-actuated pivoted jaw wrench. C. E. Aden. 2,587,673, Mar. 4.
Toggle press linkage. O. H. May. 2,587,746, Mar. 4.
Tool: *See*—
Dental and surgical percussion tool. — Impact tool. — Screen stretching tool.
Tool cabinet and workbench. A. P. Fox and A. D. Reisert. 2,587,829, Mar. 4.
Toothbrush, Fountain. L. E. Walker and G. R. Morton. 2,587,794, Mar. 4.
Torque transmitting device. J. Last. 2,588,017, Mar. 4.
Toy, Construction. P. E. Wilcox. 2,587,798, Mar. 4.
Toy gun. F. C. Beyers. 2,587,687, Mar. 4.
Toy, Gyroscopic. W. Perez. 2,588,040, Mar. 4.
Toy pistol. W. D. O'Quinn. 2,588,036, Mar. 4.
Toy rocket bomb. W. R. Walsh. 2,588,184, Mar. 4.
Track frame mounting for crawler tractors. F. A. Schick. 2,588,328, Mar. 4.
Tractor seat. V. M. Dobeus. 2,587,711, Mar. 4.
Tractor unit. J. A. Bombardier. 2,587,813, Mar. 4.
Trailer and pontoon boat, Combined. K. Bushfield. 2,588,084, Mar. 4.
Transfer valve. R. E. Bletcher, C. H. Bentley, and I. A. Ward. 2,587,960–1, Mar. 4.
Transforming amplitude modulation into phase modulation, Method of and device for. A. Špaček. 2,588,302, Mar. 4.
Transmission mechanism. K. K. Probst. 2,588,161, Mar. 4.
Transmission operating mechanism. E. R. Price. 2,587,892, Mar. 4.
Trap: *See*—
Rodent trap.
Traveling mesh cluster picker, leaf and stem separator. F. F. Dauenhauer. 2,587,604, Mar. 4.
Tray, Dental. H. W. Stark. 2,587,782, Mar. 4.
Tray, Flexible ice. F. S. Jahn, J. A. Carmien, and J. E. Mullings. 2,587,852, Mar. 4.
Treatment of mold surfaces. L. D. Garratt and G. A. Breene. 2,587,722, Mar. 4.
Trifluoromethyl phenothiazine. N. L. Smith. 2,587,660, Mar. 4.
Tube and circuit, Modulator. M. V. Kalfaian. 2,587,734, Mar. 4.
Tube compressor, Fluid pressure actuated. H. W. Custer. 2,588,212, Mar. 4.
Tube drill adapter. E. H. McLaughlin. 2,588,267, Mar. 4.
Tumbler lock. H. F. George. 2,588,230, Mar. 4.
Tumbler lock plug. P. A. Kunz. 2,587,739, Mar. 4.
Tuned supercharging. E. C. Magdeburger. 2,588,261, Mar. 4.
Tuning mechanism for television sets and the like. J. R. Dull. 2,588,093, Mar. 4.
Turbine blade grinding machine. S. A. Czarnecki. 2,587,603, Mar. 4.
Twisting spindle. J. L. Pellat-Finet and M. Riffet. 2,587,758, Mar. 4.
Two-speed planetary transmission. R. E. Weiser. 2,588,187, Mar. 4.
Typewriter keyboard. R. L. Smith. 2,587,778, Mar. 4.
Ultrahigh-frequency apparatus. A. F. Brewer. 2,587,590, Mar. 4.
Underwater constructions. C. Goodman. 2,587,835, Mar. 4.
Unidirectional gear train. I. K. Fog. 2,587,986, Mar. 4.
Uniformly spray coating. T. M. Knowland and G. D. Marcy. 2,588,125, Mar. 4.
Universal coupling. E. Camerino. 2,587,819, Mar. 4.
Universal scratch gauge. R. R. Winter. 2,587,799, Mar. 4.
Vacuum tube oscillator system. M. Morrison. 2,587,750, Mar. 4.
Vaginal douche. R. K. Story, Jr. 25,87,784, Mar. 4.
Valve: *See*—
Automatic tire tube air valve. — Relief valve.
Backwater valve. — Safety control valve.
Control valve. — Shear relief valve.
Fluid pressure differential responsive cutoff valve. — Tangential cylinder valve.
Grenade launcher valve. — Transfer valve.
Pressure-vacuum control valve. — Water softening system valve.
Valve, R. A. Mueller. 2,588,149, Mar. 4.
Valve and signal for hose nozzles, Automatic shutoff. A. L. Grisé. 2,587,839, Mar. 4.
Valve for respiratory devices. B. B. Holmes. 2,588,118, Mar. 4.
Valve indicator. A. S. Volpin. 2,587,934, Mar. 4.
Valve mechanism, Constant flow. C. D. Branson. 2,587,815, Mar. 4.
Valve mechanism for internal-combustion engines, Charge control. M. Mallory. 2,588,136, Mar. 4.
Valve mounting and operating means for toilets. E. Robinson. 2,587,901, Mar. 4.
Valve with liquid fuel injection port, Rotary. C. W. Hall. 2,587,842, Mar. 4.
Valved construction for torch handles and making the same. A. F. Chouinard and M. A. Tylutki. 2,587,821, Mar. 4.
Vapor oxygen recondenser. L. R. Cartier. 2,587,820, Mar. 4.
Vaporizer and blower, Combination. G. P. Daiger. 2,587,974, Mar. 4.
Vaporizer for gas engines, Fuel-mixture. R. G. Elliott and J. A. Bennett. 2,587,713, Mar. 4.
Variable pitch propeller. C. R. Sacchini. 2,588,166, Mar. 4.

Varying electromagnetic waves in a wave guide. H. F. Mataré. 2,588,262, Mar. 4.
Vat dyes of the anthraquinone-azole series. H. E. Schroeder and J. Deinet. 2,587,908, Mar. 4.
Vehicle: *See*—
Four wheel trailer vehicle.
Venetian blind. T. W. Collier. 2,587,696, Mar. 4.
Venetian blind head bar organization. H. Nelson. 2,587,752, Mar. 4.
Venetian blind structure. R. S. King. 2,587,859, Mar. 4.
Ventilated wall. W. L. Davis. 2,587,702, Mar. 4.
Ventilator for cold storage chambers. P. Pouliot. 2,588,289, Mar. 4.
Vinyltetrahydronaphthalenes, Preparation of. E. A. Kern. 2,588,123, Mar. 4.
Voltage regulation for electrostatic generators. H. W. Bousman. 2,588,081, Mar. 4.
Voltmeter with a plurality of inputs, Electronic. P. W. Crapuchettes. 2,588,209, Mar. 4.
Washing and screening machine. R. Cover. 2,588,088, Mar. 4.
Water cooler. A. Seligman. 2,587,772, Mar. 4.
Water emulsifiable soil-poison concentrate. P. G. Benignus. 2,588,318, Mar. 4.
Water softening system valve. R. D. Zimmerman. 2,588,317, Mar. 4.
Watertight edge for railway car doors. G. Madland. 2,587,868, Mar. 4.
Wave filter. A. G. Fox. 2,588,226, Mar. 4.
Wave guide coupling between coaxial lines. A. G. Fox. 2,588,103, Mar. 4.
Wave polarization shifter systems. W. E. Kock. 2,588,249, Mar. 4.
Weathertight sliding car door. G. Madland. 2,588,134, Mar. 4.
Wedge closure fitting. L. J. Weber and L. D. Ringo. 2,588,313, Mar. 4.
Welded article and making the same. F. A. Gruetjen. 2,587,840, Mar. 4.
Well and making it. A. Elmendorf. 2,587,985, Mar. 4.
Wheel suspension for vehicles, Retractable. H. E. Johnson. 2,587,624, Mar. 4.
Winding device, Wrist watch. E. W. Poltrock. 2,588,042, Mar. 4.
Window lock. S. J. Citso. 2,587,695, Mar. 4.
Windowed display container with article supporting platform. S. Fogel. 2,587,828, Mar. 4.
Wrench: *See*—
Toggle-actuated pivoted jaw wrench.
Wringer. W. L. Kauffman. 2,587,627, Mar. 4.
X-ray apparatus. A. J. Kizaur. 2,588,124, Mar. 4.
Yoke for pyrophoric lighters. M. Quercia. 2,587,894, Mar. 4.

CLASSIFICATION OF PATENTS

ISSUED MARCH 4, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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CLASSIFICATION OF DESIGNS

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Condition of Applications Under Examination at Close of Business February 15, 1952

Total number of patent applications awaiting action, 103,859. Date of oldest new application, April 16, 1951; date of oldest amended application, April 16, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*C. E. D. HERTZ, M			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	4-16-51	4-16-51	2159
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	7-24-51	7-19-51	1163
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	7-9-51	7-9-51	1617
4. BISHOP, W. C., Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	4-27-51	4-27-51	1935
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	6-28-51	6-29-51	1265
6. SURLE, H., Carbon Chemistry (part)	6 14-51	6-11-51	1917
7. GONSALVES, J. E., Optics; Photography (part)	7-5-51	7-5-51	1249
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	5-8-51	5-7-51	1762
9. BRANSON, J. H. (Acting), Pumps and Fans; Fluid Motors	5-2-51	5-2-51	1529
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Music; Modulators; Piezo-electric Crystals.	4-27-51	4-28-51	1118
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	5-22-51	5-17-51	955
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	5-17-51	5-28-51	1118
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	5-1-51	5-2-51	1333
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	5-7-51	5-1-51	1675
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	7-21-51	6-16-51	1135
16. LOVEWELL, N. N., Television, Telephony	4-20-51	4-20-51	1261
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	4-26-51	4-26-51	2006
18. KURZ, J. A., Power Plants; Speed Responsive Devices	5-4-51	5-3-51	1479
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	5-18-51	5-15-51	1107
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	5-18-51	5-21-51	1408
21. MADER, R. C., Textiles	4-28-51	4-28-51	1400
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	5-7-51	5-5-51	1224
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	4-16-51	4-18-51	879
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	6-8-51	6-14-51	1559
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	6-12-51	6-6-51	1237
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	4-25-51	5-5-51	1227
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	5-14-51	5-13-51	1646
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	5-15-51	5-9-51	1410
29. HABECKER, L. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	5-14-51	5-7-51	1428
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	6-26-51	6-22-51	1531
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	6-18-51	6-1-51	1995
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-1-51	6-2-51	1226
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	5-5-51	5-3-51	2088
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	5-23-51	5-21-51	1367
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	4-27-51	4-20-51	1575
36. McFADYEN, A. D., Measuring and Testing	5-1-51	4-27-51	1351
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	6-2-51	6-4-51	1211
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	6-5-51	5-23-51	1513
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	6-1-51	6-1-51	2430
40. DRUMMOND, E. J., Receptacles (part); Packages	5-9-51	5-12-51	2455
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	5-4-51	5-1-51	1255

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 103,859. Date of oldest new application, April 16, 1951; date of oldest amended application, April 16, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Signs	5-17-51	5-14-51	1273
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	6-12-51	6-19-51	1248
44. HARVEY, L. P., Beds; Chairs, Seats	5-9-51	5-7-51	1438
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	5-11-51	5-11-51	1428
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	5-17-51	5-16-51	889
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	6-1-51	5-19-51	1383
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	5-11-51	5-7-51	1581
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	5-7-51	5-3-51	1559
50. LEVIN, S., Synthetic Resins	7-21-51	7-25-51	1576
51. YAFFEE, S., Radiant Energy (part e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	5-18-51	5-18-51	1060
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-10-51	5-10-51	2138
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	6-7-51	6-1-51	1067
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	5-25-51	5-17-51	1735
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	6-6-51	6-1-51	1138
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	6-5-51	5-24-51	1794
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	5-19-51	5-16-51	1883
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	4-27-51	4-26-51	1152
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	5-17-51	5-10-51	1141
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	5-28-51	5-23-51	1098
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-3-51	5-2-51	1287
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	5-25-51	5-17-51	1419
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	5-25-51	5-29-51	1666
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	7-11-51	7-18-51	1754
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	5-25-51	5-28-51	1472
66. LISANN, L., Geometrical Instruments; Automatic Weighers; Weighing Scales	5-8-51	5-7-51	1123
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	5-19-51	5-18-51	1183
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	4-30-51	4-24-51	1744
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	5-5-51	5-5-51	1357
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	5-1-51	4-25-51	1563
DESIGNS: A. BREHM, G. L., Industrial Arts	10-1-51	10-19-51	738
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	10-5-51	11-13-51	774

Total number of trade-mark applications awaiting action (including renewals and republications), 15,532. Date of oldest new application, July 26, 1951; date of oldest amended application, July 26, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	7-26-51	7-26-51	4853
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	8-21-51	8-21-51	3196
Renewals (All Classes)	12-7-51	1-10-52	737
Republications (All Classes)	12-27-51	1-10-52	251
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	8-15-51	8-21-51	3641
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	9-1-51	9-14-51	2854

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE ARTHUR L. LEE

No. 5815. Decided December 18, 1951

[— F.2d —; 92 USPQ 131]

1. PRACTICE—REJECTION OF CLAIMS—EXPLANATION.

Whenever claims for a patent are rejected, the applicant shall be given, briefly, the reason for such rejection, together with such information and references as may be useful to him in judging the propriety of renewing his application or of altering his specification.

2. PATENTABILITY—INVENTION—COMBINING REFERENCES.

It is not necessary, in order to make a valid combination of references, to prove that a part of one device may be physically inserted into another, where the cited references suggest the modification in such a way that any person skilled in the art could make it.

3. SAME—SAME—VALID REFERENCE MUST SHOW EQUIVALENT COMBINATION.

References which require material and radical modification in order to conform to the applicant's claims are not valid references unless they show an equivalent and operative combination which obviously could be substituted to meet the claims by any skilled mechanic.

4. SAME—SAME—DOUBTS RESOLVED IN FAVOR OF APPLICANT.

Where the individual features of the combination can be met only by unusual modification of features found in the prior art, thereby causing doubt on the question of patentability, courts have been accustomed to resolve doubts in favor of the applicant.

5. SAME—PARTICULAR SUBJECT MATTER—LOADING MACHINE.

Certain claims to a loading machine *Held* not properly rejected as unpatentable over the prior art and certain other claims *Held* not properly rejected as directed to old combinations.

APPEAL from Patent Office. Serial No. 530,361.

REVERSED.

Harker H. Hittson for appellant.

E. L. Reynolds for Commissioner of Patents.

O'CONNELL, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the action of the Primary Examiner who rejected claims 1, 2, 3, 42, 43, 86, and 87 of appellant's application for a patent covering alleged new and useful improvements in a conveyer for loading coal, particularly from a mine room. Eight claims were allowed by the Board.

The references are: Jamison, 1,128,880, Feb. 16, 1915; Joy, 1,306,064, June 10, 1919; Burnell, 1,449,088, Mar. 20, 1923; Cartlidge, 1,997,247, Apr. 9, 1935; Arentzen, 2,298,448, Oct. 13, 1942; Holstein, 2,326,857, Aug. 17, 1943; Doberstein, 2,384,083, Sept. 4, 1945.

Claims 1 and 42 are illustrative:

1. In a loading machine, the combination with a main frame, of an elongated substantially horizontal telescoping conveyer including endless traveling conveyer mechanism mounted thereon and extending substantially the full length of said machine, said conveyer having a gathering head at the front and carrying laterally spaced coal gathering means for gathering coal and delivering it to said conveyer and having a reciprocable head shaft carried by said gathering head, traction means for supporting said main frame, means for anchoring the rear discharge end of said conveyer while providing for its pivotal movement together with said traction means in a horizontal plane, and means for feeding said gathering head and said conveyer head shaft rectilinearly while said gathering means are in operation to gather coal by frontal attack while it is discharged at a selected fixed position at the rear end of said machine.

42. In a loader, the combination with a frame, conveying mechanism on said frame, a pair of traction wheels, one on each side of said conveyer, power means for driving said traction wheels, means mounting said traction wheels for swinging movement about upright axes, means for swinging said wheels simultaneously oppositely and for locking said wheels while parallel and also while angularly disposed, said means including operating levers one connected to each wheel, a member pivoted to said frame, pivotal connections between said levers and said member on opposite sides of the pivotal connection of said member, and releasable means for latching said member.

Appellant's disclosure is explained sufficiently for the purpose of this appeal in the following excerpt quoted from the Examiner's statement of record:

The machine claimed, used for gathering broken-down coal at the mine face and conveying it to a disposal means, comprises a low elongated four-wheel vehicle having an endless conveyer extending longitudinally therealong. An ordinary gathering head at the front end loads coal onto the conveyer, which is of the extensible or telescopic frame type in which one section can be projected or retracted relatively to the other by action of suitable motive mechanism, to change the overall length of the working run, while maintaining uniform tension of the endless conveyer. The two front wheels have individual drive motors which are reversible to propel the machine in forward or rearward direction, the wheels being in parallel planes at such time. These wheels, however, have shiftable mountings and can be swung about vertical axes through almost 90° and locked in such position that, on proper direction of drive, the front end of the vehicle can be caused to move directly to the right or left.

The rear end of the vehicle may be supported on a pair of vertically adjustable steering wheels, during travel; but for loading operations the rear end of the telescopic conveyer frame is usually pivotally anchored at the desired discharge point, and the steering wheels are elevated from the ground. Then the forward section of the conveyer with its gathering head can be advanced by its extending mechanism, forcing the gathering head into the coal to load and convey it to the discharge point. After such attack, the front section can be retracted, and by proper manipulation of the traction wheels can be swung about the anchor point to other angular positions for repeated frontal attack on the pile of coal, until a wide area is cleared.

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PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $22.75 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

The patent to Holstein, the basic reference, relates to improvements in self-loading devices for shaker conveyers of the type utilized in a mine for picking up material, such as loose coal. The forward portion, which has an extensible trough with a shovel for picking up the loose material from the ground, is adjustably mounted on a pair of laterally-spaced traction wheels, which may be moved either in a longitudinal direction or caused to swing transversely from side to side. An extensible reciprocating conveyer extends backwardly from the shovel. The rear end of the device is mounted on wheels for movement about the mine and is adapted to be held in fixed relation to the ground by suitable jacks, or the like, during the loading operation.

The respective patents to Jamison and Burnell disclose improvements in coal-loading machines whereby the forward and rear ends thereof are connected by an endless conveyer system, adjustable in length, so that the forward end of the device may be extended or retracted. The patents to Cartlidge and to Joy, respectively, show coal-loading machines which, among other things, comprise laterally-spaced coal gathering means at the forward end.

The patent to Arentzen discloses a shuttle car especially adapted for use in gathering and loading coal at the working face of the usual room and pillar system of an underground mine. The car comprises, among other things, a wheeled body and a conveyer operating over the floor of said body for moving coal from one end of the car to the other. The car is so mounted that it and the conveyer may be driven as a unit for operation anywhere in the mine or for transporting the loaded material to the unloading station where the load may be readily emptied from the car. Mechanism is attached to the body of the car to vary the discharge end thereof and for maintaining the conveyer in position at all operable elevations.

The patent to Doberstein discloses a rubber-tired kerf-cutting machine which is mounted to feed the machine and a rigid cutter bar longitudinally into the coal of a mine room and transversely thereacross, together with independent power operated mechanism for driving the supporting wheels in all positions of adjustment about their vertical axes.

The specification filed by appellant includes more than 50 pages of printed text. There are many more pages of schematic drawings together with 326 enumerated elements. Ninety-seven claims have been involved one way or another during the prosecution of appellant's application in the Patent Office since April 10, 1944. His device, however, is a powerful machine having hydraulic and electrical equipment, push button controls, and other elements not only designed to synchronize multiple operations but also to rapidly complete the loading and removal of large quantities of coal from a mine.

The Examiner cited 15 different references, none of which disclose the specific construction here claimed. The Examiner summarized his position in the expressed view that while appellant's disclosure presented patentable invention, his claims failed to define that invention. However, his rejection of claims 8, 91, 92, 93, 94, 95, 96, and 97 as unpatentable over certain art of record was reversed and those claims were allowed by the Board. Other rejected claims were not appealed.

The Examiner rejected appealed claims 1, 2, and 3 as lacking invention over the disclosure of the patent to Holstein in view of the additional disclosures of the patents to Jamison or Burnell and either of the patents to Cartlidge or Joy. In respect to those three claims, the Board found the disclosures of Burnell and Joy cumulative to those of Jamison and Cartlidge, and accordingly held:

> * * * that it would not involve invention to substitute the extensible endless traveling conveyer shown in the Jamison patent for the extensible shaking type conveyer of the Holstein loading machine and the gathering head of the Cartlidge patent with its laterally spaced coal gathering means for the gathering head of the Holstein machine, this head being in the form of a simple shovel.

The Examiner rejected appealed claims 42 and 43 as drawn to an old combination in view of the respective disclosures of the patents to Holstein, Doberstein, and Arentzen. The Board affirmed this rejection for the reasons stated by the Examiner.

The Board discussed the Examiner's rejection of claims 86 and 87 as "indefinite" and pointed out wherein the device defined by the limitations of those two claims was neither at variance with appellant's structure defined by his specification nor were the two claims subject to rejection on the ground of indefiniteness as applied by the Examiner. The Board nevertheless rejected claims 86 and 87 as unpatentable over the art of record relied upon by the Examiner in his rejection of claims 1, 2, and 3.

Appellant protests here that the tribunals of the Patent Office defaulted in their duty in the instant case in that they have not explained, for example, how any skilled mechanic having the art of record before him could, without exercise of the inventive faculty, reorganize the basic reference, Holstein, by substituting disclosures in the secondary references, say, of "the extensible endless traveling conveyer shown in the Jamison patent for the extensible shaking type conveyer of the Holstein loading machine."

[1] Whenever any of the claims for a patent is rejected by the Commissioner, or by the tribunals of the Patent Office acting for him, the applicant shall be given, briefly, the reason of such rejection, together with such information and references as may be useful to him in judging the propriety of renewing his application or of altering his specification.[1]

[2] The Solicitor for the Patent Office has correctly pointed out in his brief, and cited authority to the effect, that it is not necessary in order to make a valid combination of references to prove that a part of one device may be physically inserted into another, where the cited references suggest the modification in such a way that any person skilled in the art could make it.[2] [3] On the other hand, appellant cites authority of this court,[3] and of the Board of Appeals of the Patent Office,[4] to the effect that a basic reference and additional references having features somewhat analogous to those disclosed by appealed claims, which require material and radical modification in order to conform to appellant's claims, are not valid references unless they show an equivalent and operative combination which obviously could be substituted to meet the appealed claims by any skilled mechanic.

There is no yardstick by which the courts or the tribunals of the Patent Office may affirmatively determine whether that which is disclosed by an application for a patent constitutes invention or merely the work of a mechanic skilled in the art.[5] The function of a patent is to add to the total stock of useful knowledge. When that result is achieved, an inventor or discoverer is rewarded therefor in his particular field with a limited monopoly. Claims for a new combination of old elements which, when assembled, effect no change in their respective functions define no invention, however, since such a combination, if patented, would withdraw into the field of its monopoly resources freely available to every person skilled in the art.[6]

Before any inventor shall receive a patent for a machine, he shall not only explain the principle thereof and the best mode in which he has contemplated applying that principle, but, so as to distinguish his machine from others, he shall also particularly point out and distinctly claim the part, improvement, or combination which he claims as his invention.[7]

One claim may be sufficient to meet the prescribed requirements of the statute.[8] Undue prolixity in the presentation of claims has been universally condemned.[9] In such a case the Patent Office may refuse to consider the application and reject all of the claims on the ground of multiplicity. This court has encouraged such practice to prevent the imposition of intolerable burdens on the tribunals of the Patent Office.

On the other hand, considerable latitude has been allowed the applicant for a patent in determining what is necessary for the full protection of his patent rights,[10] and [4] in the case of claims for a combination, where the individual features of the combination can be met only by unusual modification of features found in the prior art, thereby causing doubt on the question of patentability, courts have been accustomed to resolve such doubts in favor of the applicant. *In re Pappas et al.*, 38 CCPA (Patents) 746, 758, 185 F.2d 695, 88 USPQ 108. In the last analysis, the applicant in the present case had reduced the number of his claims to reasonable limits, and there was no rejection by the Patent Office on the ground of multiplicity.

The Examiner in his painstaking statement made no rejection of claims 86 and 87 as unpatentable over the prior art of record and the Board gave no justifiable reason for its action in effecting that result. Moreover, in view of the teachings of the authorities hereinbefore cited, appellant appears to be clearly entitled to the allowance of those claims as well as claims 1, 2, and 3. None of the cited references shows the full equivalent of the combination defined by those five claims. Also the basic reference, Holstein, known in the art as having a shaker conveyer, operates on a different principle from that claimed by appellant. The basic and secondary references, although somewhat analogous, contain no suggestion as to how an operative combination could be accomplished by substituting, say, "the extensible endless traveling conveyer shown in the Jamison patent for the extensible shaking type conveyer of the Holstein loading machine."[11]

There can be no denial that the precise equivalent of the particular combination set forth in claims 42 and 43 is not found in the art of record. The particular arrangement of the elements defined by those claims appears peculiarly applicable to conveyers and not to vehicles generally. The limitations of the two rejected claims define structure which finds a special and principal utility in a loading machine which includes a conveyer. Such claims, under the authorities, should not be rejected on the ground of old combination, since patent claims may be sustained in a proper case because of the fact of combination rather than the novelty of any particular element.[12]

[5] For the reasons stated, the decision of the Board is reversed.

REVERSED.

[1] R. S. 4903, 35 U. S. C. § 51; *International Standard Electric Corp.* v. *Kingsland*, 169 F.2d 890, 615 O. G. 527.

[2] *In re Ewald*, 26 CCPA (Patents) 1312, 104 F.2d 622, 42 USPQ 35, 508 O. G. 832; *In re Merkle*, 32 CCPA (Patents) 1151, 150 F.2d 445, 66 USPQ 165, 581 O. G. 349; *In re Stover*, 32 CCPA (Patents) 823, 146 F.2d 299, 64 USPQ 186, 573 O. G. 367.

[3] *In re Joseph Dance*, 19 CCPA (Patents) 728, 53 F.2d 543, 11 USPQ 181, 182, 414 O. G. 301; *In re Arter*, 32 CCPA (Patents) 882, 147 F.2d 701, 64 USPQ 563, 574 O. G. 395.

[4] *Ex parte Williams*, 51 USPQ 92, 93.

[5] *In re Rolph*, 26 CCPA (Patents) 1066, 1069, 102 F.2d 873, 41 USPQ 292, 506 O. G. 788.

[6] *Great Atlantic & Pacific Tea Co.* v. *Supermarket Equipment Corp.*, 340 U. S. 147, 87 USPQ 303, 642 O. G. 5.

[7] R. S. 4888, 35 U. S. C. § 33.

[8] *In re Newton*, 38 CCPA (Patents) 877, 187 F.2d 337, 88 USPQ 554, 646 O. G. 1059; *In re Sol Einstein*, 18 CCPA (Patents) 885, 46 F.2d 373, 8 USPQ 166, 406 O. G. 287; *In re Prescott et al.*, 51 App. D. C. 281, 278 Fed. 590.

[9] *In re Buttolph*, 22 CCPA (Patents) 973, 75 F.2d 629, 24 USPQ 375, 456 O. G. 503; *In re Scharf*, 33 CCPA (Patents) 1079, 155 F.2d 734, 69 USPQ 518, 590 O. G. 361.

[10] *In re Wood et al.*, 33 CCPA (Patents) 984, 155 F.2d 547, 69 USPQ 337, 589 O. G. 169; *In re Mayo*, 36 CCPA (Patents) 1188, 175 F.2d 570, 82 USPQ 225, 626 O. G. 900.

[11] *In re Arter*, 32 CCPA (Patents) 882, 147 F.2d 701, 64 USPQ 563, 574 O. G. 395.

[12] *Faulkner* v. *Gibbs*, 338 U. S. 267, 268, 629 O. G. 597; *Williams Co.* v. *Shoe Mach. Corp.*, 316 U. S. 364, 369, 541 O. G. 3; *Ex parte Gulliksen and Dawson*, 47 USPQ 153; *Ex parte Woodall*, 40 USPQ 131; *Ex parte Barrows*, 34 USPQ 301; *In re Nelson et al.*, 30 CCPA (Patents) 1257, 137 F.2d 106, 58 USPQ 550, 557 O. G. 5.

NOTICES

Notice of Tentative Recordation of Trade Name

[T. D. 52920]

Tentative recordation of trade name under section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations of 1943

TREASURY DEPARTMENT
OFFICE OF THE COMMISSIONER OF CUSTOMS
Washington, D. C., Feb. 5, 1952

To Collectors of Customs and Others Concerned:

An application has been filed in the Treasury Department for the recordation of the following-described trade name under the provisions of section 42, Trade-Mark Act of July 5, 1946, and section 11.16, Customs Regulations of 1943:

"WILLIAM PRYM, INC." owned by William Prym, Inc., a corporation of New York, Dayville, Connecticut, which trade name is used in connection with the manufacture and sale of notions and stationery items manufactured in the United States.

Any person who desires to file an opposition to the recordation of this trade name shall notify the Commissioner of Customs, Bureau of Customs, Washington 25, D. C., before the expiration of 30 days after February 28, 1952, of his intent to oppose the recordation. If a notice of opposition is filed, the opposer will be furnished with a copy of the application for recordation of the trade name, together with its supporting documents and instructions as to the procedure to be followed. The customs officers concerned will be given notice within 45 days after February 28, 1952, of any opposition proceeding.

Until 45 days after February 28, 1952, all articles of foreign manufacture bearing names or marks which copy or simulate the above-mentioned trade name shall be detained, but not seized, and thereafter shall receive the treatment provided for in section 11.17, Customs Regulations of 1943, unless a notice is received that an opposition has been filed, in which case such articles shall continue to be detained until a final determination is made concerning the right of the applicant to the trade name.

(Signed) FRANK DOW,
Commissioner of Customs.

Delegation of Authority

Pursuant to and under authority of the provisions of section 8 of the Invention Secrecy Act of 1951, Public Law 256, 82d Congress, approved February 1, 1952 (66 Stat. 3), and the provisions of Reorganization Plan No. 5 of 1950 (15 F. R. 3174), there are hereby delegated to the Commissioner of Patents and such officers of the Patent Office as he may designate, all the powers, functions and duties conferred on the Secretary of Commerce by said act.

CHARLES SAWYER,
Feb. 4, 1952. *Secretary of Commerce.*

[Published 17 F.R. 1361—Feb. 12, 1952]

Patent Office Committee on Practice and Procedure

There has been established in the Patent Office a committee on practice and procedure. The members of this committee have been selected from among the Examiners-in-Chief, the Office of the Solicitor, the Supervisory Examiners, the Interference Examiners, the Primary Examiners, and Assistant Primary Examiners who are familiar with problems arising in applications for patents. The purpose of the committee is to consider such problems and to study proposals relating to practice with the object of improving the practice. Any suggestions, constructive criticisms or proposals relating to improvement in the practice before the Office will be considered by this committee.

JOHN A. MARZALL,
Feb. 5, 1952. *Commissioner of Patents.*

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,461,925, H. E. Rupp, Self-priming centrifugal pump, decided Nov. 29, 1951, claims 1, 3, and 7.

Pat. 2,499,995, J. I. Heller, Panoramic receiver with discriminator-type sweep circuits, decided Dec. 4, 1951, claims 11 and 12.

Pat. 2,468,166, G. G. Bruck, Mixing apparatus, decided Feb. 5, 1952, claims 6 and 8.

Pat. 2,412,974, E. M. Deloraine, Electric wave communication system, decided Jan. 29, 1952, claims 3, 4, 11, and 12.

Pat. 2,525,967, C. H. Smoot, Reset motor control system, decided Feb. 5, 1952, claims 1, 2, and 8.

Disclaimers

2,144,338.—*Ludwig H. Lange*, Philadelphia, Pa. BOX SYSTEM. Patent dated Jan. 17, 1939. Disclaimer filed Feb. 6, 1952, by the assignee, *Stokes and Smith Company*.

Hereby enters this disclaimer to claims 40, 42, and 44 of said patent.

2,469,875.—*George W. Fyler*, Stratford, Conn. AUTOMATIC FREQUENCY CONTROL FOR PULSE TRANSMISSION SYSTEMS. Patent dated May 10, 1949. Disclaimer filed Jan. 31, 1952, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claims 1, 2, 4, and 5 of said patent.

2,515,895.—*Ouglijesa Jules Poupitch*, Chicago, Ill. SPRING CLIP FOR MOLDING STRIPS AND THE LIKE. Patent dated July 18, 1950. Disclaimer filed Jan. 29, 1952, by the assignee, *Illinois Tool Works*; the inventor consenting and concurring.

Hereby enters this disclaimer to claims 6 and 7 of said patent.

2,537,763.—*Dallas T. Hurd*, Schenectady, N. Y. PREPARATION OF ORGANOSILANES. Patent dated Jan. 9, 1951. Disclaimer filed Jan. 10, 1952, by the assignee, *General Electric Company*.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

Classification Order No. 118

January 23, 1952

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ESTABLISH CLASS

336, Adjustable Inductor Devices (Division 26)
(H. GAUSS, *Classifier*)

NOTE: The subclass schedule, definitions of the above class, and complete Classification Order No. 118 appear in Classification Bulletin No. 404, price $.30.

ESTABLISH SUBCLASSES

In *Class 175, Electricity, General Applications* (Division 48)

(H. GAUSS, *Classifier*)

Stationary induction apparatus

356.2 Inductive regulators with no relatively moving parts (to follow subclass 356)
356.4 Magnetic shunt
356.6 Air gap

CLASSES ARRANGED BY DIVISION

In Division 26, establish

336—ADJUSTABLE INDUCTOR DEVICES

CLASSES ARRANGED IN ALPHABETICAL ORDER

Establish:

336—ADJUSTABLE INDUCTOR DEVICES..... 26

CLASSES ARRANGED IN NUMERICAL ORDER

Establish:

336—ADJUSTABLE INDUCTOR DEVICES..... 26

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
175	356.2	171	119, 242 (777)
175	356.4	171	119, 242 (777)
175	356.6	171	119, 242 (777)
336	All subs.	171	119, 242 (777)

SUBCLASS SCHEDULE

Class 336, Adjustable Inductor Devices

10 **Polyphase**
15 **With coil winding and/or unwinding**
20 **With deformable or distortable coil and/or core**
30 **Adjustable in response to condition or by electromagnet**
40 Adjusted by magnetic force
41 Weight counterbalanced coil and/or core
45 **With movable element position indicator**
55 **With temperature modifier**
60 Liquid modifier
63 Fluid circulating through coil conductor
65 **With mounting or supporting means**
75 **Relatively movable coil and closed coil or conductor member**
77 With magnetic portion
79 Angularly movable
80 **With electric or magnetic shielding means**
90 **With outer casing or housing**
100 **With vibration control**
105 **Combined (e. g., with line switch)**
110 **With permanent magnet**
115 **Relatively movable coils**
116 With means to change coil length and/or connections
117 With core
118 Relatively movable core and coils
119 Coil and core movable as a unit
120 Angularly movable
121 Angularly and linearly movable coils
122 Angularly movable
123 About axis parallel to or coaxial with the other coil axis
124 Non-symmetrically pivoted coil movable on axis transverse to other coil axis
125 About axis normal to other coil axis
126 Plural coils movable with respect to a coil
127 Similar spherical shaped coils
128 Tubular stationary coil
129 Movable along or parallel to other coil axis
130 **Relatively movable core and coil**
131 Plural coils with plural cores
132 Plural relatively movable core parts
133 Adjustable magnetic shunt
134 Adjustable air gap
135 Angularly movable
136 Telescoping magnetic body and coil
137 **With means to change coil length or connections**
138 Parallel spaced conductors or coils bridged by movable connector
139 Contactor following helical conductor
140 Plural movable contactors
141 With contactor guide track
142 Coil connections changed by moving coil (i. e., coil substitution)
143 With connection reversing means
144 With variable number of short-circuited turns
145 Plural coils (e. g., transformers)
146 Inductance change in plural coils
147 Plural coils or coil portions connected in parallel or in series and parallel
148 Autotransformers
149 Contactor slidable on coil winding
150 Series-change (e. g., tap change)

M. C. ROSA,
Executive Examiner.

Important Information

In ordering manuscript copies much time will be saved if the order states specifically what is desired, viz:

Application as originally filed. (Petition, specification, oath, and drawings, as received.) Application as amended. (Petition, specification, oath, and drawings with amendments entered.)
Application as allowed. (Petition, specification, oath, and drawings as passed by the Examiner for issue.)
Original application. (Facsimile petition, specification, oath, and drawings at present time.)
Specification as originally filed. (As received in Office.)
Specification as amended. (With amendments entered.)
Specification as allowed. (As passed by the Examiner for issue.)
Original specification. (Facsimile at present time.)
File-wrapper. (File-wrapper only.)
File-wrapper and contents. (File-wrapper, contents of record, including photoprints of any tracings or of prints within file-wrapper. In patented cases, printed copy of the specification and drawings of the patent is furnished.)
File-wrapper contents, and drawings. (File-wrapper and all of the contents of record, including photoprints of any tracings, exhibits, or prints within the file-wrapper. In pending cases, photoprints of the pending drawings only, omitting any canceled. If patented, copy of the specification and drawings of the patent being furnished, photoprints are not made of the original drawings unless specially ordered. If canceled drawings are wanted, they must also be specially ordered.)
Assignment. (Give the liber and page of the record as well as the name of the inventor.)
Printed publications in possession of the Office. (Give title and date of publication, also page and exact portion to be copied.)
Orders for copies of any other records not mentioned above must state specifically the exact paper to be copied.

Printed Copies of Trade-Marks

A printed copy of the drawing and statement of any registered trade-mark can be obtained for ten cents.

Communications to the Patent Office

A separate letter should in every case be written in relation to each distinct subject of inquiry or application. Assignments for record, final fees, and orders for copies or abstracts must be sent to the Office in separate letters. (See Rule 4.)

Amendments to Amendments

RULE 124. When an amendatory clause is to be amended, it should be wholly rewritten and the original insertion canceled, so that no interlineations or deletions shall appear in the clause as finally presented. Matter canceled by amendment can be reinstated only by a subsequent amendment presenting the canceled matter as a new insertion.

Printed Copies of Patents

A printed copy of the complete specification and drawings of any patent published herein can be obtained for twenty-five cents. (Designs ten cents.)

Returnability of Fees

All questions pertaining to the return of fees will be referred to the Financial Division. Examiners and chiefs of other divisions will express no opinion to attorneys or applicants as to whether or not fees are returnable in particular cases.

Amendments of Drawings

RULE 123. No change in the drawing may be made except by permission of the Office. Permissible changes in the construction shown in any drawing may be made only by the Office. A sketch in permanent ink showing proposed changes, to become part of the record, must be filed. The paper requesting amendments to the drawing should be separate from other papers. The drawing may not be withdrawn from the Office except for signature.

Substitute drawings will not ordinarily be admitted in any case unless required by the Office.

Use of Patented Drawing in a Reissue

The drawings upon which the original patent was issued may be used in reissue applications if no changes whatsoever are to be made in the drawings. In such cases, when the reissue application is filed, the applicant must submit a temporary drawing which may consist of a copy of the printed drawings of the patent or a photoprint of the original drawings securely mounted by pasting on sheets of drawing board of the size required for original drawing, or an order for the same.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I. Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,566,474. Venetian Blind Tape Protector. Patented Sept. 4, 1951. A detachable channel-shaped shield for protecting the tapes of Venetian blinds when the slats are being cleaned. The shield has a base portion to be supported beneath a slat on a tape connector, and a slot at one end of base to receive the cord of the blind. The device has side wing portions which extend upwardly along the inside surfaces of the tapes. The shield is moved from slat to slat as the cleaning progresses. (Owner) Linna L. Woodbury, R. F. D. 8, Kansas City 16, Mo. Groups 25—63; 26—91; 33—73; 34—41; 39—81; 40. Reg. No. 46,671.

Pat. 2,562,176. Electrical Selective Control Apparatus. Patented July 31, 1951. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Selective control apparatus adaptable for many applications may, for example, be used to release a lock from a distant point, to open a garage door from a car, or to control (from a shore station) a radio beacon on a navigational buoy anchored at sea. The apparatus is designed to respond only to a sequence of signal pulses of prearranged length and spacing, and such pulses may be initiated by a light-sensitive apparatus, a radio system, or other desired means. The control apparatus may be readily altered to enable the sequence of signals to which the apparatus is responsive to be changed, when desired. (Owner) Herman H. Curry, 1514 Roswell St., Marietta, Ga. Group 36—19—61—62. Reg. No. 46,672.

Pat. 2,567,580. Watch Stem Setter and Winder. Patented Sept. 11, 1951. Tool for watchmakers for setting and winding a watch stem when watch is out of its case. A cylindrical body has an axial bore with a rod slidable therein. The rod has a knob at end urged inwardly of the body by a spring. A handle at other end of rod has a reduced portion which is slidable in the body. The knob may be projected out of the bore in the head of the cylindrical body for snap engagement with the socket of a watch stem and then allowed to retract so that the head will slip over the end of the stem and lockingly retain the knob in the socketed end of stem. The tool is rotated to wind the stem and set the hands. (Owner) James H. Ruther. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Groups 33—52; 34—61. Reg. No. 46,673.

Pat. 2,566,071. Valve. Patented Aug. 28, 1951. Rotary cylinder type valve for use as a faucet does not require the use of washers. Valve body has a central bore with openings communicating with an annular outlet chamber. A cylinder rotatably mounted in the bore has arcuate sections with cut-outs which can be moved into and out of registry with the openings. An operating shaft extending centrally into the cylinder has spaced arms, the ends of which are seated in cut-outs of cylinder. A spring on each arm urges the cylinder sections into engagement with the wall of the bore of valve body. When the valve is closed, the water pressure exerts additional force on the cylinder sections. (Owner) Layton Schobert, 1401 South Henderson St., Fort Worth 4, Tex. Group 33—61. Reg. No. 46,674.

Pat. 2,554,029. Automatic Speed Regulator for Timepieces. Patented May 22, 1951. Provides mechanism to effect automatic adjustment of the speed regulator of a watch or clock coincidentally with movement of the hands thereof from incorrect to correct time-indicating position. A disc having an irregular circumferential cam surface is mounted for rotation with stem of timepiece. A pivoted lever for controlling the transmission of motion to the speed-regulator-adjusting means is urged into contact with the cam surface of the disc by a spring. When the stem is longitudinally displaced into time-setting position and rotated to re-set the hands to correct time-indicating position, proper adjustment of the speed regulator is simultaneously effected. (Owner) Robert E. Holdman, 2731 Haste St., Berkeley 4, Calif. Group 34—61. Reg. No. 46,675.

Pat. 2,569,123. Can Perforating Device. Patented Sept. 25, 1951. A flat-top can (such as beer, fruit juice, or oil can) may be placed on the base of this device, and a lever depressed to simultaneously perforate the top of the can in two places to provide a pouring and a vent opening. When lever is released, a spring swings the lever and perforating arm to out-of-way position. A base to be fastened to a support has a stationary upright attached thereto which serves as a stop for a can. A standard is pivoted to a boss on the base behind the upright. A perforating arm is pivoted at its mid-section to the standard. An operating lever is pivoted to the standard above the arm. The rear ends of the arm and lever are pivotally connected by a link, and the arm and standard are spring-connected. (Owner) Jay E. Anderson, 500 East Ontario Ave., S. W., Atlanta, Ga. Groups 33—51—52; 34—41; 40. Reg. No. 46,676.

Pat. 2,562,231. Plural Pencil With Slidable Lead Carriers. Patented July 31, 1951. Mechanical pencil has several lead carriers which may be selectively shifted from inoperative to operative position by individual slides movable in longitudinal slots in casing of pencil. Each carrier has a guide shaft and is surrounded by a spring to retract it from operative to inoperative position. When a carrier is shifted to operative position, the resilient end of its shaft lodges behind a stationary support to lock the carrier in operative position. When it is desired to retract the carrier, slight backward movement of a slide member of any of the other carriers will actuate a release member to dislodge the end of the spring from the support so that the carrier will be returned by its spring to inoperative position. Another carrier may then be shifted into operative position. Modifications shown. (Owner) Walter Bossert. Correspondence to Michael S. Striker, 511 Fifth Ave., New York 17, N. Y. Groups 39—51; 40. Reg. No. 46,677.

Pat. 2,551,678. Hydraulic Structure and the Like. Patented May 8, 1951. Hydraulic gate structure to be installed between two water levels of different heights for controlling at least one of the levels may be used either as a lock or sluice gate, collapsible weir, water seal, and the like. Hydrostatic pressure of the different water levels is employed to operate the gate structure, thus eliminating the use of mechanical power. The gate structure permits the flow of water between both water levels and prevents entry of air into the connecting channels. (Owner) Frantisek Jermar. Correspondence to Michael S. Striker, 511 Fifth Ave., New York 17, N. Y. Groups 24—14; 33—81; 35—61—69. Reg. No. 46,678.

Pat. 2,554,040. Rotary Plug Valve. Patented May 22, 1951. Reg. No. 46,679.

Pat. 2,564,223. Valve. Patented Aug. 14, 1951. Reg. No. 46,680.

These two patents disclose a rotary micrometer plug valve for controlling the flow of various fluids, particularly the flow of oil to a burner. The valve includes a casing having an inlet and an outlet opening, and a tapered rotary plug having a through opening for establishing communication between the inlet and outlet openings. A plate removably fitted over the opening in the plug has an orifice to be brought into and out of registry with a slot in a wall at the inner end of the inlet opening in the casing. The ends of the orifice and slot are V-shaped to provide a pin-point opening through the valve at the option of user. Interchangeable orifice plates, each having a different size orifice, may be employed to vary the capacity range of the valve and accommodate fluids of different viscosity and variable pressures. In Pat. 2,564,223 interchangeable orifice sleeves for removably embracing the plug are employed instead of the orifice plates. (Owner) Grover C. Long, Union Trust Building, Washington 5, D. C. Groups 33—61; 35—65.

Pat. 2,562,774. Method for the Manufacture of Baskets and the Like. Patented July 31, 1951. A method of forming a light-weight open-work basket of globular or oblate shape to hold a glass vase, or other container, of similar shape. The method employs a horizontally disposed hoop of flexible or non-flexible material, and a continuous length of suitable flexible material formed into a plurality of crossing portions, which cross one another and also cross and are attached to the hoop. The basket is formed with an upwardly opening mouth to prevent the container from dropping out if the basket is tilted. (Owner) Alberto A. Concepcion, 11488 Kercheval Ave., Detroit 14, Mich. Groups 25—51—52; 39—49—81; 40. Reg. No. 46,681.

Des. 154,462. Design for a Holder for Globular Objects. Patented July 12, 1949 (term of 14 years). Owner states that holder may be of wickerwork, made from reeds, fabric tapes, or the like, or molded from rubber or other moldable material, sufficiently flexible to permit the globular object to be inserted into and removed from the holder. (Owner) Alberto A. Concepcion, 11488 Kercheval Ave., Detroit 14, Mich. Groups 22—12; 25—51—52; 30—31; 40. Reg. No. 46,682.

United States Government Owned Patents

The following 15 patents (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757) are assigned to the United States as represented by the Secretary of Agriculture. Licenses to practice the inventions are issued on a royalty-free, non-exclusive, non-transferable, revocable basis.

Applications for licenses should be addressed to the Bureau of Agricultural and Industrial Chemistry, U. S. Department of Agriculture, Washington 25, D. C.

Pat. 2,549,840. Separation and Fractionation of Sugars. Patented Apr. 24, 1951. A purified solution of glucose is obtained from an aqueous solution of glucose and polysaccharides by adsorbing the polysaccharides upon activated carbon. The polysaccharides are recovered from the carbon by treatment with aqueous phenol, acetic acid, or ephedrine. Group 20—62—94. Reg. No. 46,683.

Pat. 2,550,682. Coating Compositions. Patented May 1, 1951. A basic polyamide having an amine equivalent of 1500 to 2000, formed by reacting polymeric fat acids or esters thereof with an excess of ethylene diamine, is dissolved in alcohol, giving a highly durable film-forming composition for application to metals. Groups 28—11—83; 33—75. Reg. No. 46,684.

Pat. 2,550,703. Coating Compositions From Soybean Oils. Patented May 1, 1951. A minor amount of calcium oxide is added to soybean oil paints containing pigments, such as basic carbonate of white lead, cryptone, or titanox B-30, to reduce the residual tack, and also improve color retention and durability. Group 28—11—23. Reg. No. 46,685.

Pat. 2,557,078. Enzyme Production. Patented June 19, 1951. A fungal enzyme preparation which may be used to convert starch to high-quality sugar products is prepared by culturing an enzyme-producing fungus in a sterile synthetic medium containing a protein-free source of nitrogen. The absence of protein material in the medium leads to improved taste when these enzymes are used to convert starch to syrups. Group 20—62—94—95. Reg. No. 46,686.

Pat. 2,557,159. Halogenated Unsaturated Higher Fatty Acids and Derivatives. Patented June 19, 1951. Substantial halogenation of unsaturated higher fatty acids and their derivatives is accomplished by reaction with alkyl hypohalites. The resulting products contain conjugated olefinic linkages. When alkali-refined soybean oil is treated with tertiary butyl hypochlorite, a product is produced containing 9.92 per cent chlorine and a total conjugation of 20.7 per cent. Group 28—23—83—89. Reg. No. 46,687.

Pat. 2,559,607. Production of Furfural From Pentose Liquors. Patented July 10, 1951. Furfural is produced by converting pentose-containing liquors by treatment with acids. Yields are improved by maintaining the concentration of furfural in the reaction medium below 0.7 per cent. This may be accomplished by continuously removing the solution from the conversion zone, cooling the solution, and then extracting with a furfural solvent. After extraction, the solution is recycled to the conversion. Group 28—11—21—81. Reg. No. 46,688.

Pat. 2,559,650. Preparation of D-tartaric Acid. Patented July 10, 1951. D-tartaric acid is produced by fermentation of a soluble salt of 5-keto-d-gluconic with *Pseudomonas fluorescens*. The fermentation is conducted under submerged aerobic conditions for a period of 3 to 17 days, and the tartaric acid is recovered as potassium hydrogen tartrate. Groups 20—99; 28—31—81—89. Reg. No. 46,689.

Pat. 2,559,652. Preparation of D-glucuronic Acid. Patented July 10, 1951. D-glucuronic acid is made by treating a solution of calcium 1,2-acetone-D-glucuronate hydrate with oxalic acid and heating the resulting solution above 75° C. for 1 to 3 hours. The precipitated calcium oxalate is removed by filtration. D-glucuronic acid is recovered from the filtrate. Group 28—31—81—89. Reg. No. 46,690.

Pat. 2,561,333. Reversible Vegetable Gel. Patented July 24, 1951. A novel vegetable gel is made by mixing alcohol with a proteinaceous soybean fraction dispersed in water. Sufficient alcohol is added to result in a solution containing 30 to 50 per cent alcohol by volume. This solution, after heating to a temperature between 75° C. and boiling, forms a reversible gel when cooled to 30° C. or lower. The reversible gel finds use as a food material. The proteinaceous fraction used as a starting material is obtained by extracting an alcohol-extracted soybean residue with water. Groups 20—85—99; 28—23—94. Reg. No. 46,691.

Pat. 2,561,364. Method for Producing Vitamin B_{12}. Patented July 24, 1951. Vitamin B_{12} is produced by cultivating *Flavobacterium devorans* in a medium containing an assimilable carbon source such as dextrose or crude molasses and an assimilable nitrogen source such as corn steep liquor or soy meal. The product may be recovered as a vitamin concentrate by evaporating the culture liquor after fermentation is complete. Groups 20—61—63—94; 28—23—31. Reg. No. 46,692.

Pat. 2,562,198. N-Beta-Propionic Acid Derivatives of Alpha-Amino Acids. Patented July 31, 1951. Beta cyanoethyl derivatives of amino acids, produced by the reaction of alpha amino acid salts with acrylonitrile, are hydrolyzed by acids or alkalies (alkali hydrolysis preferred) to form the N-beta-propionic acid derivatives. The products are white, crystalline solids useful as organic intermediates. Group 28—31—33—83. Reg. No. 46,693.

Pat. 2,562,200. Process for Making D-glucuronic Acid and Its Salts. Patented July 31, 1951. Alpha-methyl-D-glucoside is catalytically oxidized with an oxygen-containing gas to form alpha-methyl-D-glucuronoside. The glucuronoside is then hydrolyzed with acid, neutralized, and treated with aniline to precipitate aniline N-D-glucuronoside salt. The salt is then hydrolyzed to give the D-glucuronic acid. Group 28—31—81—89. Reg. No. 46,694.

Pat. 2,562,978. Starch Carbamates. Patented Aug. 7, 1951. Starch is reacted with an organic isocyanate, under substantially anhydrous conditions, in an organic solvent to produce a starch carbamate containing at least one carbamyl group for every 14 anhydroglucose units. The product is non-swelling or non-paste forming in hot water. Groups 20—94; 28—31—33. Reg. No. 46,695.

Pat. 2,567,980. Drying Wet Wheat Gluten. Patented Sept. 18, 1951. Wet wheat gluten, as produced by the batter process, and having a moisture content of 65–70 per cent, is slurried with ethanol by agitation, and the slurry is dried upon a heated surface. The drying is conducted by allowing the slurry to remain for about 10 seconds or less in contact with a surface heated to 150°–170° C. Groups 20—41; 28—31. Reg. No. 46,696.

Pat. 2,571,104. Polymyxin Production. Patented Oct. 16, 1951. The antibiotic, polymyxin, is produced by cultivating *B. polymyxa* under submerged aerobic conditions in a medium containing 1 to 2 percent carbon source (glucose) and a source of assimilable nitrogen (peanut flour). The medium is supplemented during the course of the fermentation by adding .5 to 2 per cent carbon source. The ultraviolet mutant, *B. polymyxa* NRRL B–719 (u. v.—37), gives high yields of the antibiotic. Maintaining the carbon source level at the low values mentioned tends to suppress the formation of unwanted byproducts and to increase the yield of polymyxin. Group 28—31. Reg. No. 46,697.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 4, 1952

[VOL. 656. No. 1]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 496,587. Vitamin Supple-Mints Co., Milwaukee, Wis., assignor to Oscar G. Trudeau, St. Paul, Minn. Filed Feb. 14, 1946.

TEENS

For Candy Mints Containing Vitamins.
Claims use since Aug. 3, 1945.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 610,424. A. B. Dick Company, Niles, Ill. Filed Feb. 23, 1951.

MIMEOLITH

For Cotton for Lithographic Duplicating.
Claims use since Oct. 27, 1950.

CLASS 2

RECEPTACLES

Ser. No. 527,415. Beatrice Steel Tank Manufacturing Company, Beatrice Nebr. Filed July 5, 1947.

BESTCO BEATRICE

The word "Beatrice" is disclaimed.
For Metal Barrels—Namely, Aluminum and Stainless Steel Beer Barrels.
Claims use since Jan. 1, 1946.

Ser. No. 598,396. Thermoplex International, Inc., New York, N. Y. Filed May 31, 1950.

THERMOPLEX

For Plastic Insulated Serving Pitchers for Table Use.
Claims use since Sept. 14, 1949.

Ser. No. 601,590. Arrow Manufacturing Co., Inc., West New York, N. J. Filed Aug. 2, 1950.



For Plastic Cases Designed for Holding Watches.
Claims use since July 15, 1930.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 604,193. Duluth Buff Company, Chicago, Ill. Filed Sept. 29, 1950.

AIRO-FLOW

For Buffing Wheels and Buffing Wheel Sections.
Claims use since May 1947.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 578,695. Merchants Chemical Company, Inc., New York, N. Y. Filed May 12, 1949. (Classified in Class 52.)
See this serial number in Class 52 for goods and mark.
Claims use since May 6, 1949.

Ser. No. 580,799. Synco Products Company, Inc., doing business under the name and style of Synco Products, Chattanooga, Tenn. Filed June 20, 1949.

glide

For Durable Plastic Starch Used as a Substitute for Carbohydrate Starch in Ironing.
Claims use since May 12, 1949.

Ser. No. 582,704. Stauffer Chemical Company, San Francisco, Calif. Filed July 29, 1949.

OWL

For Finely Ground Crude Sulfur Used Only by Manufacturers of Agricultural Dusting Compositions To Manufacture Dusts Containing Such Sulfur Together With Other Added Ingredients.
Claims use since Apr. 21, 1899.

Ser. No. 590,518. S. B. Penick & Company, New York, N. Y. Filed Jan. 7, 1950.

DETHMOR

For Rodenticides Used for the Elimination of Rats and Mice.
Claims use since Oct. 24, 1949.

Ser. No. 604,750. Suburban Gas Service, Inc., Harrisburg, Pa. Filed Oct. 11, 1950.

NATANE

For Liquefied Hydrocarbon Gas for Use in Heating and Cooking.
Claims use since Sept. 29, 1950.

Ser. No. 605,458. Arkansas Company, Inc., Newark, N. J. Filed Oct. 27, 1950. (Sec. 2f.)

ANTHROLE

Applicant claims ownership of Registrations Nos. 147,474 and 294,594.
For Vegetable Oil Used for Textile Dyeing and Finishing.
Claims use since 1920.

Ser. No. 606,809. Refined Products Corporation, Lyndhurst, N. J. Filed Nov. 22, 1950. (Classified in Class 52.)
See this serial number in Class 52 for goods and mark.
Claims use since May 15, 1950.

Ser. No. 607,066. Bareco Oil Company, Tulsa, Okla. Filed Nov. 29, 1950.

MONAX

For Microcrystalline Wax.
Claims use since Dec. 29, 1949.

Ser. No. 607,067. Bareco Oil Company, Tulsa, Okla. Filed Nov. 29, 1950.

MONOWAX

For Microcrystalline Wax.
Claims use since Dec. 29, 1949.

Ser. No. 607,068. Bareco Oil Company, Tulsa, Okla. Filed Nov. 29, 1950.

PETRONAUBA

For Microcrystalline Wax.
Claims use since Dec. 29, 1949.

Ser. No. 607,069. Bareco Oil Company, Tulsa, Okla. Filed Nov. 29, 1950.

PLASTICERA

For Microcrystalline Wax.
Claims use since Dec. 29, 1949.

Ser. No. 607,070. Bareco Oil Company, Tulsa, Okla. Filed Nov. 29, 1950.

ULTRACERA

For Microcrystalline Wax.
Claims use since Dec. 29, 1949.

Ser. No. 608,914. Bone Dry Shoe Mfg. Co., Tacoma, Wash. Filed Jan. 18, 1951. (Sec. 2f.)

BONE-DRY

Applicant claims ownership of Registration No. 509,299.
For Shoe Grease and Shoe Dressing.
Claims use since 1918.

Ser. No. 609,777. Bostwick Laboratories, Inc., Bridgeport, Conn. Filed Feb. 8, 1951.

FEATHER TOUCH

For Insect Killer, Moth Proofing Preparation, Air Refresher.
Claims use since Nov. 21, 1949.

Ser. No. 610,421. A. B. Dick Company, Niles, Ill. Filed Feb. 23, 1951.



For Materials Used in Lithographic Printing—Namely, Opaquing Solutions, Ink Repellent, Etch Solutions, Preservatives and Conditioners for Masters, and Conditioners for Lithographic Blankets.
Claims use since Oct. 27, 1950.

Ser. No. 610,426. A. B. Dick Company, Niles, Ill. Filed Feb. 23, 1951.

MIMEOLITH

For Materials Used in Lithographic Printing—Namely, Opaquing Solutions, Ink Repellent, Etch Solutions, Preservatives and Conditioners for Masters, and Conditioners for Lithographic Blankets.
Claims use since Oct. 27, 1950.

Ser. No. 611,612. Mathieson Chemical Corporation, Baltimore, Md. Filed Mar. 21, 1951.

MCC

For Bottler's Alkali, a Composition of Caustic Soda and Trisodium Phosphate.
Claims use since Jan. 30, 1951.

Ser. No. 612,158. Clifford Hach, doing business as Hach Chemical Company, Ames, Iowa. Filed Apr. 3, 1951.

CalVer

For Chemicals and Chemical Compositions for Use in the Analysis of Water.
Claims use since Jan. 15, 1951.

Ser. No. 612,159. Clifford Hach, doing business as Hach Chemical Company, Ames, Iowa. Filed Apr. 3, 1951.

CuVer

For Chemicals and Chemical Compositions for Use in the Analysis of Water.
Claims use since March 1949.

Ser. No. 612,161. Clifford Hach, doing business as Hach Chemical Company, Ames, Iowa. Filed Apr. 3, 1951.

ManVer

For Chemicals and Chemical Compositions for Use in the Analysis of Water.
Claims use since April 1949.

Ser. No. 612,162. Clifford Hach, doing business as Hach Chemical Company, Ames, Iowa. Filed Apr. 3, 1951.

TitraVer

For Chemicals and Chemical Compositions for Use in the Analysis of Water.
Claims use since Jan. 15, 1951.

Ser. No. 612,163. Clifford Hach, doing business as Hach Chemical Company, Ames, Iowa. Filed Apr. 3, 1951.

UniVer

For Chemicals and Chemical Compositions for Use in the Analysis of Water.
Claims use since June 1950.

Ser. No. 613,510. Industrial Chemical Laboratories, Inc., Omaha, Nebr. Filed May 4, 1951.



The words "Work For You" are disclaimed.
For Liquid and Powdered Insecticides, Liquid and Powdered Disinfectants.
Claims use since Mar. 1, 1951.

Ser. No. 614,296. General Aniline & Film Corporation, New York, N. Y. Filed May 24, 1951.

ISODOL

For Photographic Chemicals—Namely, Photographic Developers.
Claims use since May 4, 1951.

Ser. No. 614,544. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed May 31, 1951.

ALKANOL

Applicant claims ownership of Registration No. 281,095.
For Chemical Compounds, Mixtures, or Solutions in the Nature of Surface Active Agents Which, by Reducing Surface Tension, Promote Wetting, Rewetting, Penetration, Dispersion, Emulsification, Foaming, or Detergency.
Claims use since Aug. 21, 1930.

Ser. No. 614,759. Diamond Alkali Company, Cleveland, Ohio. Filed June 5, 1951.

DIAMOND "80-20"

The designation "80–20" is disclaimed.
For Grain Fumigant.
Claims use since July 1949.

Ser. No. 615,222. Rasmus A. Hansen, doing business as Retex Company, Livermore, Calif. Filed June 15, 1951.

RETEX

For Composition for Treating Fabric Materials, Such as Wearing Apparel Which Has Been Used, To Restore Essential Oils to the Fibers Thereof.
Claims use since Aug. 12, 1949.

Ser. No. 615,363. American Cyanamid Company, New York, N. Y. Filed June 19, 1951.

2246

For Antioxidant.
Claims use since Jan. 30, 1950.

Ser. No. 615,552. Hanson-Van Winkle-Munning Company, Matawan, N. J. Filed June 22, 1951.

S-13

For Chemical Addition Agent for Use in Electroplating Solutions.
Claims use since Feb. 2, 1950.

Ser. No. 616,287. General Aniline & Film Corporation, New York, N. Y. Filed July 10, 1951.

VIVOMAT

For Chemical Preparations Used as Photographic Developers.
Claims use since May 25, 1951.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 602,601. Columbus Plastic Products, Inc., Columbus, Ohio. Filed Aug. 23, 1950.

Lustro-Ware

The term "Ware" is disclaimed. Applicant claims ownership of Registrations Nos. 416,862, 517,431, and 521,835.
For Tobacco Humidors Composed of Thermoplastic and/or Thermosetting Resins.
Claims use since January 1950.

Ser. No. 604,970. The Imco Manufacturing Corporation, New York, N. Y. Filed Oct. 16, 1950.

LOOK-N-LITE

The word "Lite" is disclaimed.
For Pyrophoric Lighters for Cigars, Cigarettes, and Pipes.
Claims use since May 15, 1950.

Ser. No. 612,579. Astra Trading Corporation, New York, N. Y. Filed Apr. 13, 1951.

ATC

For Cigarette Lighters.
Claims use since Mar. 7, 1951.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 589,999. Ithaca Gun Company, Inc., Ithaca, N. Y. Filed Jan. 5, 1950. (Sec. 2f.)

ITHACA

For Double Barrel Shotguns, Single Barrel Shotguns, and Repeating Shotguns.
Claims use since 1880.

Ser. No. 611,924. Valmet Oy-Valmet Ab, Helsinki, Finland. Filed Mar. 28, 1951.

VALMET

Applicant claims ownership of Finnish Registration No. 22,678, dated Mar. 15, 1949.
For Shotguns, Small Bore Rifles, Small Bore Rifles for Competition, and Cartridges for Such Shotguns and Rifles.

Ser. No. 614,183. James H. Wily, doing business as The Conestoga Company, Bethlehem, Pa. Filed May 21, 1951.

BANGSITE

For Ammunition for Toy Cannon and Fire Arms.
Claims use since Dec. 1, 1917.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 610,598. Witco Chemical Company, Chicago, Ill. Filed Feb. 27, 1951.

WITCO BLAK

The word "Blak" is disclaimed. Applicant claims ownership of Registrations Nos. 418,226 and 418,227.
For Carbon Black Used in the Manufacture of Inks.
Claims use since October 1950.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 593,026. United States Plywood Corporation, New York, N. Y. Filed Feb. 24, 1950.

KORINA

Applicant claims ownership of Registration No. 507,053.
For Plywood, Veneer, and Lumber.
Claims use since Jan. 30, 1948.

Ser. No. 601,000. Van Cleef Bros., Inc., Chicago, Ill. Filed July 20, 1950.

GASKATEX

For Gasketing Compound.
Claims use since Jan. 31, 1931.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 540,436. Naamlooze Vennootschap Kristal-, Glasen Aardewerkfabrieken "De Sphinx" Voorheen Petrus Regout & Co., Maastricht, Netherlands. Filed Nov. 7, 1947.



All wording except "Petrus Regout" and "Sphinx" is disclaimed. Applicant claims ownership of Dutch Registration No. 58,269, dated Aug. 29, 1929, and United States Registration No. 272,291.
For Bathroom Accessories and Fittings and Parts Therefor—Namely, Bathtubs, Water-Closets, Reservoirs and Tanks for Holding Fluids, Lavatory-Basins, Pedestals for Lavatory-Basins, Bidets, Urinals, Wash Basins, Collapsible Wash Basins, Sinks, Drainers for Sinks, Foot-Baths, Slop Sinks, Lavatories for Factories, Lavatory-Troughs, Drinking and Washing Fountains Connected With a Water Supply, Trays for Stall Showers, Back-Pieces for Lavatory-Basins, Door and Wall Shelves for Bathrooms.

Ser. No. 565,297. Paragon Utilities Corporation, New York and Brooklyn, N. Y. Filed Sept. 2, 1948.

Paragon

For Washtubs in the Form of Permanent Fixtures Connected to a Water System, Kitchen Sinks, Household Combination Sink and Tub Assembly.
Claims use since Jan. 25, 1940.

Ser. No. 574,171. United Aircraft Products, Inc., Dayton, Ohio. Filed Feb. 19, 1949.

Aire-Ware

The word "Ware" is disclaimed.
For Metal Pans Useful in Baking and in the Preparation of Food Molds.
Claims use since Nov. 3, 1948.

Ser. No. 595,358. Carter Products Corporation, Cleveland, Ohio, now by change of name Carlon Products Corporation. Filed Apr. 7, 1950.



For Conduits Made of Polymeric Material Such as, Polyethylene, Cellulose Acetate, Cellulose Acetate Butyrate, Co-Polymerised Vinyls, Polystyrene, and Copolymers Thereof.
Claims use since Nov. 6, 1946.

Ser. No. 602,533. Washington Steel Products Inc., Tacoma, Wash. Filed Aug. 18, 1950. (Sec. 2f with respect to "Washington Line.")



For Cabinet Hardware—Namely, Door Knobs, Drawer Knobs, Combination Door Knobs and Back Plates, Combination Drawer Knobs and Back Plates, Back Plates for Door Knobs, Back Plates for Drawer Knobs, Door Pulls, Flush Door Pulls, Drawer Pulls, Combination Door Pulls and Back Plates, Combination Drawer Pulls and Back Plates, Back Plates for Door Pulls, Back Plates for Drawer Pulls, Door Catches, Friction Door Catches, Spring Grip Door Catches, Door Latches, Combination Door Latches and Door Pulls, Hinges, Door Hinges, Semi-Concealed Inset Hinges, Semi-Concealed Hinges, Semi-Concealed Hinges for Lipped Doors, Semi-Concealed Hinges for Doors With Concealed Edges, Semi-Concealed Hinges for Flush Doors, Concealed Hinges for Flush Doors, Pivot Hinges, Pivot Hinges for Revolving Shelves, Screws, Breadboard Screws, Rolling Drawer Guides, Drawer Stops, Rolling Door Tracks, Rolling Door Single Tracks, Rolling Door Double Tracks, Rolling Door Hangers, Rolling Door Wheel Hangers, Cabinet Ventilators, Louvers.
Claims use since Apr. 1, 1950.

Ser. No. 608,391. West Bend Aluminum Co., West Bend, Wis. Filed Jan. 4, 1951. (Sec. 2f.)

WEST BEND

For Aluminum, Copper, and Steel Cooking Utensils—Namely, Pots, Pans, Kettles, Skillets, Roasters, Broilers, Griddles, Coffee Makers, Tea Kettles, Egg Poachers, French Fryers, Dutch Ovens, and Pressure Cookers; and Serving Humidors for Keeping Sandwiches, Cake, and Similar Foods Fresh; Pitchers, Tumblers, Coasters, Cocktail Shakers, Corn Poppers, Trays, Bowls, Ring Molds, and Colanders.
Claims use since January 1912.

Ser. No. 609,710. American Sanitary Manufacturing Company, Abingdon, Ill. Filed Feb. 7, 1951.



For Plumbing Equipment and Parts Thereof, as Well as Fittings Therefor—Namely, Traps and Outlets, Split Links, S Hooks, Trap Inlet Connections, Extension Tubes, Plugs, Bead Chain, Safety Chain, Sink Strainers, Sink Funnels, Chain Stays and Faucet Hole Covers, Rubber Stoppers, Sink Strainer Tailpieces, Sink Bolts, Wastes and Overflows, Bath Couplings, Nipples, Covering Tubes, Tubing, Pipe, Reducers, Slip Joints and Nuts, Flanges, Size Fittings, Cap Nuts, Vent T's and Elbows, Bushings, Closet Spuds, Flush Elbows and Connections, Flush Valves, Float Rods, Rubber Tank Balls, Trip Levers, Closet Floor Flanges, Floats, High Tank Flush Pipe, Shower Rods, Pins and Hold-Back Hooks, Faucets, Compression Lavatory Stops, Quick Compression Bath Faucets, Boiler Drains, Sill Faucets, Stops and Wastes, Air Valves, Concealed Bath Fixtures, Industrial Showers, Couplings, Reducers, Adapters, Elbows, T's and Plugs, Tube Caps, Flush Bushings, Pipe Straps, Unions.
Claims use since February 1950.

Ser. No. 610,270. Earle F. Hiscock, Washington, D. C., and New York, N. Y. Filed Feb. 19, 1951.

Kippin

For Beverage Brewers—Namely, Coffee and Tea Makers.
Claims use since Oct. 13, 1950.

Ser. No. 616,307. West Disinfecting Company, Long Island City, N. Y. Filed July 10, 1951.

DISPENSALL

For Dispensers for Liquid Soaps, Disinfectants, and Germicidal Preparations Affixed to a Wall or Stand.
Claims use since May 21, 1951.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 604,466. The Canton Chaplet and Manufacturing Company, Canton, Ohio. Filed Oct. 5, 1950.

FUSEAL

For Foundry Chaplets.
Claims use since Mar. 22, 1949.

Ser. No. 604,470. The Canton Chaplet and Manufacturing Company, Canton, Ohio. Filed Oct. 5, 1950.

TWISTEM

For Foundry Chaplets.
Claims use since Mar. 22, 1949.

Ser. No. 613,501. The Capewell Manufacturing Company, Hartford, Conn. Filed May 4, 1951.



For Ground Flat Metal Stock.
Claims use since Sept. 15, 1947.

Ser. No. 616,064. Super Flow Solder Co., Inc., Albany, N. Y. Filed July 3, 1951.



The word and mark "Bow XX" is disclaimed.
For Activated, Non-Corrosive Solder.
Claims use since Dec. 16, 1949.

Ser. No. 617,737. United States Steel Company, Pittsburgh, Pa. Filed Aug. 15, 1951. (Sec. 2f.)

ILLINOIS

Applicant claims ownership of Registration No. 543,654.
For Metal Rails and Splice Bars.
Claims use since 1910.

Ser. No. 620,031. The Electric Storage Battery Company, Philadelphia, Pa. Filed Oct. 16, 1951.

SILVIUM

For Storage Battery Grid Alloy.
Claims use since Aug. 1, 1951.

CLASS 15

OILS AND GREASES

Ser. No. 615,340. Penn Petroleum Corporation, Detroit, Mich. Filed June 18, 1951.

Acra-Grind

The word "Grind" is disclaimed. Applicant claims ownership of Registration No. 526,686.
For Oils or Mixtures Thereof Used as Coolants or Lubricants.
Claims use since Oct. 5, 1950.

CLASS 16

PAINTS AND PAINTERS' MATERIALS

Ser. No. 536,154. Seidlitz Paint & Varnish Co., Kansas City, Mo. Filed Sept. 29, 1947.

DURAGLOSS

For Paints in Paste or Semi-Paste Form, Varnish and Paint Enamel.
Claims use since Aug. 1, 1934.

Ser. No. 580,179. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed June 9, 1949.

REWBON

For Acidproof and Anti-Corrosive Rubber Base Coating Preparation, Used To Coat Floors or Tank Surfaces.
Claims use since Jan. 16, 1940.

Ser. No. 583,505. Welco Manufacturing Company, Incorporated, Kansas City, Mo. Filed Aug. 15, 1949.

Wel-Cote
WATER SEAL



The drawing is lined for the color red. The words "Water Seal" and "Cote" and the representation of the partial coat of paint on the building blocks are disclaimed.
For Cement Base Paint.
Claims use since October 1948.

Ser. No. 590,627. Universal Paint & Varnish Company, Huntington Park, Calif. Filed Jan. 10, 1950.

miroflex

For Protective Floor Coating.
Claims use since Aug. 19, 1946.

Ser. No. 591,835. Commonwealth Varnish Company, Chicago, Ill. Filed Feb. 2, 1950.

sparclin

For Porcelainized Gloss Finish Paint.
Claims use since Jan. 24, 1950.

Ser. No. 591,895. Ernest Scherer, doing business as Scherer's Rolup Ink Co., Grosse Pointe, Mich. Filed Jan. 10, 1950. (Sec. 2f.)

SCHERER'S

Applicant claims ownership of Registration No. 441,889.
For Acid-Resisting Paint Enamel for Making Photo Engravings.
Claims use since July 1, 1937.

Ser. No. 594,810. Sapolin Paints Inc., New York, N. Y. Filed Mar. 28, 1950.

Stone-Dri

The word "Dri" is disclaimed.
For Concrete Floor Enamel for Exterior and Interior Use.
Claims use since Mar. 7, 1950.

Ser. No. 595,972. Metallizing Engineering Co. Inc., Long Island City, N. Y. Filed Apr. 19, 1950.

METCOSEAL

For Metal Surface Paints and Thinners Therefor.
Claims use since Nov. 16, 1939.

Ser. No. 595,992. West Paint and Varnish Company, Boston, Mass. Filed Apr. 19, 1950. (Sec. 2f.)

TOURAINE

For Enamel Paint.
Claims use since July 1918.

Ser. No. 597,935. Beacon Lead & Color Works, Inc., Brooklyn, N. Y. Filed May 23, 1950.

RITZ

For Paints for Exterior and Interior Use.
Claims use since Apr. 1, 1947.

Ser. No. 601,266. Lawter Chemicals, Inc., Chicago, Ill. Filed July 26, 1950.

LAWTER'S LUVA

The word "Lawter's" is disclaimed.
For Fluorescent Paint.
Claims use since July 13, 1950.

Ser. No. 601,353. H. Forsberg Co., Cleveland, Ohio. Filed July 28, 1950.



The words "Flash," "Bond," "H. Forsberg Co.," and "Cleveland, Ohio" are disclaimed.
For Liquid Used as a Bonding and Protective Coating on Surfaces of All Kinds—Namely, Metal, Wood, Plaster, Concrete, and Hard Rubber.
Claims use since January 1948.

Ser. No. 602,782. Service Industries, Philadelphia, Pa. Filed Aug. 25, 1950.

FERNO

For Ready-Mixed Aluminum Paint.
Claims use since Aug. 23, 1950.

Ser. No. 602,825. Maurice L. Condon Co., Inc., White Plains, N. Y. Filed Aug. 28, 1950.

BoatLIFE

The word "Boat" is disclaimed.
For Pigmented Varnish.
Claims use since Nov. 21, 1949.

Ser. No. 604,011. Kreuter Paint Company, Grand Rapids, Mich. Filed Sept. 26, 1950. (Sec. 2f.)

Filall

For Ready Mixed Paints and Primer for Use on Wood, Metal, Plaster, Paint, and Wallpaper To Be Applied Prior to Painting.
Claims use since 1925.

Ser. No. 609,778. Bostwick Laboratories, Inc., Bridgeport, Conn. Filed Feb. 8, 1951.

FEATHER TOUCH

For Chrome Aluminum Enamel, and a Liquid Plastic for Finishing Surfaces, Applied by Spraying.
Claims use since Nov. 21, 1949.

Ser. No. 611,080. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Mar. 9, 1951.

TEFLON

Applicant claims ownership of Registration No. 418,698.
For Polytetrafluoroethylene Coatings in the Nature of Paints and Varnishes.
Claims use since Jan. 30, 1948.

Ser. No. 612,924. Mobile Paint Manufacturing Company of Delaware, Inc., Wilmington, Del., and Mobile, Ala. Filed Apr. 20, 1951.

DUB-L-COP

For Copper Bottom Paint.
Claims use since Apr. 2, 1951.

Ser. No. 613,781. H. H. Robertson Company, Pittsburgh, Pa. Filed May 11, 1951.

STYPOL

For Resinous Coating Compositions.
Claims use since Jan. 15, 1948.

Ser. No. 613,943. Pace Paints Inc., Brooklyn, N. Y. Filed May 16, 1951.



The lining is for shading. The word "Paci" is disclaimed.
For Enamel Paints, Plastic Paints, Oil Paints, Lacquers, Shellac, Coating Waxes, Oils and Thinners for Use in Paint, Lacquers, Varnishes, Enamels, and the Like, Liquid Waterproofing Coating Compositions, Wood and Varnish Stains, and Paint Colors in Paste and Powder Form.
Claims use since Apr. 9, 1951.

Ser. No. 614,941. Hillyard Chemical Company, St. Joseph, Mo. Filed June 8, 1951.

HILLYARD'S

STAR

The word "Hillyard's" is disclaimed. Applicant claims ownership of Registration No. 439,646.
For Liquid Oil-Based Finish for Wood Floors.
Claims use since May 8, 1946.

Ser. No. 615,500. Protective Coatings Corporation, Des Plaines, Ill. Filed June 21, 1951.

KERPRO

For Plastic Type Paints and Coatings Packed in Pressurized Containers; Shingle Paint Coatings; and Container Linings of Phenol-Formaldehyde Resin Solutions Used Primarily for Coating the Inside of Steel Pails and Drums To Provide a Protective Lining Therefor.
Claims use since Aug. 1, 1950.

Ser. No. 615,509. Waterloo Corporation, New York, N. Y. Filed June 21, 1951.

de-fier

The lines indicate blue and red.
For Fire Insulating Paint.
Claims use since Feb. 28, 1950.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 595,412. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Apr. 7, 1950.

ULMICAL-ULMER

The name "Ulmer" is disclaimed. The drawing is lined for the color red. Applicant claims ownership of Registration No. 306,646.
For Medicinal Preparation—Namely, a Vitamin and Mineral Supplement to the Prenatal Care of Expectant Mothers.
Claims use since June 28, 1944.

Ser. No. 598,395. Testagar & Co., Inc., Detroit, Mich. Filed May 31, 1950.

POYAMIN

For Vitamin B_1 Preparation in Capsule Form, in Dropper Vials, and in Multiple Dose Vials.
Claims use since Feb. 10, 1950.

Ser. No. 603,910. Paul C. Bragg, doing business as Live Food Products Company, Burbank, Calif., assignor to Live Food Products Co., Burbank, Calif., a corporation of California. Filed Sept. 23, 1950.

Lo-Cid

For Stomach Anti-Acid.
Claims use since Aug. 28, 1950.

CLASS 19

VEHICLES

Ser. No. 591,473. Fitzjohn Coach Co., Muskegon, Mich. Filed Jan. 26, 1950. (Sec. 2f.)

Cityliner

For Motor Busses, Not Including Engines.
Claims use since June 1, 1938.

Ser. No. 609,845. Burd Piston Ring Company, Rockford, Ill. Filed Feb. 9, 1951.

HāDees

Applicant claims ownership of Registrations Nos. 241,503 and 279,286.
For Automobile Heaters and Parts and Accessories Therefor, and More Particularly Heaters Heated by the Engine-Cooling Medium.
Claims use since Oct. 28, 1927.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 554,612. Seco Company, Inc., St. Louis, Mo. Filed Apr. 14, 1948.

SCOTTY

For Electrically Operated Portable Food Warmers.
Claims use since Mar. 5, 1940.

Ser. No. 561,465. Heinemann Electric Company, Trenton, N. J. Filed July 15, 1948. (Sec. 2f—Additional evidence.)

MAGNETTE

For Service Centers Consisting of a Small Number of Circuit Breakers in a Housing, Panel Boards, and Circuit Breakers.
Claims use since 1939.

Ser. No. 592,310. Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Filed Feb. 11, 1950.

TINYMIKE

Applicant claims ownership of Registrations Nos. 322,066, 379,258, and others.
For Electrical Capacitors.
Claims use since Jan. 3, 1950.

Ser. No. 596,574. Jennings Radio Mfg. Co., San Jose, Calif. Filed Apr. 29, 1950. (Sec. 2f as to "Jennings.")
The word "Radio" is disclaimed.

Jennings RADIO

For Vacuum Electronic Apparatus—Namely, Vacuum Tubes, Vacuum Condensers, Vacuum Induction Heating Units, and Vacuum Transformers.
Claims use since Dec. 1, 1943.

Ser. No. 599,812. William Boyd, Beverly Hills, Calif. Filed June 27, 1950.

HOPALONG CASSIDY

The name "Hopalong Cassidy" is fictitious.
For Electric Lamps.
Claims use since Nov. 28, 1949.

Ser. No. 604,821. Swivelier Company, Inc., New York, N. Y. Filed Oct. 12, 1950.

Torpedo

For Reflectors for Electrical Lighting Fixtures.
Claims use since Feb. 1, 1948.

Ser. No. 605,021. Fenwal Laboratories, Inc., Ashland, Mass. Filed Oct. 17, 1950.

DIEL—SEAL

The term "Seal" is disclaimed.
For Dielectric Sealers for Weld-Uniting Plastic Sheets, Strips and Walls as for Example in Sealing Off Plastic Tubing.
Claims use since Aug. 1, 1950.

Ser. No. 607,969. Societe des Accumulateurs Elbric S. A., Lausanne, Switzerland. Filed Dec. 21, 1950.

ELBRIC

Applicant claims ownership of Swiss Registration No. 133,408.
For Accumulators.
Claims use since 1950 in Switzerland; and since 1950 in commerce between Switzerland and the United States.

Ser. No. 608,638. The Taylor-Winfield Corporation, Warren, Ohio. Filed Jan. 10, 1951.

AIR-HYDRAULIC

The words "Air-Hydraulic" are disclaimed.
For Electric Resistance Welding Machines.
Claims use since July 10, 1950.

Ser. No. 610,304. Aerovox Corporation, New Bedford, Mass. Filed Feb. 20, 1951.

Ballastron

For Electrical Capacitors.
Claims use since October 1946.

Ser. No. 610,893. Consolidated Sewing Machine & Supply Co., Inc., New York, N. Y. Filed Mar. 6, 1951.

SEWMAC

For Electric Sewing Machine Motors.
Claims use since Dec. 8, 1950.

Ser. No. 612,654. Global Watch Company, Inc., New York, N. Y. Filed Apr. 14, 1951.

OMEGARADIO

For Radio Receiving Sets, Electric Fans, and Phonographs.
Claims use since Apr. 2, 1951.

Ser. No. 612,655. Global Watch Company, Inc., New York, N. Y. Filed Apr. 14, 1951.

RADIOMOSER

For Radio Receiving Sets, Electric Fans, and Phonographs.
Claims use since Apr. 2, 1951.

Ser. No. 613,992. Ideal Industries, Inc., Sycamore, Ill. Filed May 17, 1951.

BLOCKBINDER

For Electrical Welding Apparatus and Parts Thereof.
Claims use since Nov. 24, 1950.

Ser. No. 617,628. Ray-O-Vac Company, Madison, Wis. Filed Aug. 13, 1951.



Applicant claims ownership of Registrations Nos. 149,925, 242,884, and 535,351.
For Dry Cells and Dry Cell Batteries.
Claims use since Apr. 27, 1949 as to the mark shown, since Apr. 1, 1921 as to the mark "Ray-O-Vac," and since June 14, 1939 as to a germane variation of the mark shown.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 586,741. The Emporium Capwell Company, doing business as The Emporium, San Francisco, Calif. Filed Oct. 24, 1949. (Sec. 2f as to "The Emporium.")

The BIG E

For Archery Equipment—Namely, Bows, Arrows and Quivers; Baby Exercisers; Baseballs; Baseball Bats; Footballs; Bowling Balls; Bowling Ball Bags; Bowler's Hand Chalk; Boxing Gloves; Children's Scooters and Sleds; Dice; Dolls, Doll Clothes, and Doll Carriages; Educational Toys; Fishing Equipment—Namely, Fishing Creels, Fish Eggs Used as Bait, Fishing Lines, Fishing Reels, Fishing Rods, Fishing Floats, Plastic Self-Adjusting Casting Floats, Fish Hooks, Fish Net Leads and Lead Sinkers for Fishing; Game Nets; Golf Bags, Golf Balls, Golf Clubs and Golf Club Head Covers; Inflatable Life Rafts; Sleeping Bags for Camping; Paper Pushout Figures for Making Dolls or Animal Toys; Table Tennis Racquets, Balls and Nets; Skis; Snowshoes; Ice and Roller Skates; Toy Children's Christmas Stockings; Tennis Racquets and Tennis Balls; Toy Motor Boats, Wagons and Automobiles; Toy Crayon Stencil Sets; Toy Drawing Equipment; Toy Pistols; Toy Surgical Instruments; Toy Tools and Toy Tool Chests; Toy Embroidery Sets; Toy Whistles; and Velocipedes.
Claims use since May 25, 1949 on the mark as shown; and since August 1896 on the words "The Emporium."

Ser. No. 588,720. Western Lace and Line Company, also doing business as Western Fishing Line Co., Glendale, Calif. Filed Dec. 29, 1949.

MAGI-BRAID

The word "Braid" is disclaimed.
For Fishing Line.
Claims use since Sept. 1, 1949.

Ser. No. 596,912. Sid. Gottheimer, Inc., New York, N. Y. Filed May 5, 1950.



The words "Doll" and "Products" are disclaimed.
For Accessories for Dolls—Namely, Doll Carriage Cover Sets, Mattresses, Trimmed Beds, Bassinettes, Doll Carriage Clips.
Claims use since Feb. 6, 1950.

Ser. No. 601,449. Mason Tackle, Otisville, Mich. Filed July 29, 1950.

NYL-O-PAK

For Composite Unit Consisting of a Fishing Line Leader and Dispenser.
Claims use since Mar. 27, 1950.

Ser. No. 613,878. R. T. Le Fevre and J. O. Stevenson, Los Angeles, Calif. Filed May 15, 1951.

TAXES
... THE GREAT AMERICAN GAME

The wording "The Great American Game" is disclaimed.
For Game To Be Played With Dice, Markers, and Individual Playing Boards.
Claims use since Apr. 25, 1951.

Ser. No. 614,180. Uneeda Doll Co. Inc., New York, N. Y. Filed May 21, 1951.

"NEEDA TODDLES"

For Dolls.
Claims use since May 9, 1951.

Ser. No. 619,756. Ideal Toy Corporation, Hollis, N. Y. Filed Oct. 9, 1951.

SOAP-MARINE

The word "Soap" is disclaimed.
For Plastic Toy Soap Dish.
Claims use since Oct. 3, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 534,202. Standard Shoe Machinery Company, Chicago, Ill. Filed Sept. 11, 1947. (Sec. 2f.)

BESTEST

For Sewing Awl Hafts, Twin Cutters, Nail Sets, Tack Claws.
Claims use since 1908.

Ser. No. 580,467. Cutlery Corporation, Bridgeport, Conn. Filed June 15, 1949.

DURIZED

For Shears and Scissors, Produced by the Hardening and Tempering Process.
Claims use since April 1948.

Ser. No. 580,971. Bamfords Limited, Uttoxeter, England. Filed June 24, 1949. (Sec. 2f.)

BAMFORD'S

For Reaping Machines, Hay-Making Machinery, Hay and Grass Collecting Machinery, Grass-Cutting Machines; Grinding Mills, Crushing Mills, Combined Grinding and Crushing Mills, Meal Sifters, Chaff Cutters, Chaff Sifters and Dust Extractors, Oil Cake Mills, Automatic Fodder Plants, All Being Machinery for Producing Cattle Food; Hay and Grass Loaders (Machines); Friction Hoists (Mechanical), and Power Take-Offs for Agricultural and Horticultural Machines; Potato Diggers, Fertilizer and Seed Distributors, Harrows, Rollers for Agricultural Land, Root Cutters, Root Cleaners, Root and Pulp Elevators (Mechanical) Adapted To Be Connected to a Source of Power, All Being Agricultural Machinery or Agricultural Implements of the Larger Kind; Saw Benches, Knives for Mowing Machines, Knives for Reaping Machines, Knife Grinding Machines; Industrial Dairy Churns; Curd Mills and Cheese Presses, All Being Dairy Machinery; Horse Gears, Knife Stands, Rakes (Non-Rotary), Mowers, Swath Turners, Side Delivery Rakes, Hay Tedders or Kickers, and Parts of All of the Said Goods.
Claims use since 1871 in Great Britain and first used in commerce between Great Britain and the United States in 1871.

Ser. No. 583,343. Herman Pneumatic Machine Company, Pittsburgh, Pa. Filed Aug. 11, 1949.

ROL-O-CAST

The word "Cast" is disclaimed.
For Centrifugal Casting Machines for Casting Hollow Articles of Generally Circular Cross-Section.
Claims use since Mar. 23, 1949.

Ser. No. 584,646. Utility Tools Inc., New York, N. Y. Filed Sept. 9, 1949.



The word "Tools" and the representation of the tools are disclaimed.
For Tools—Namely, Hammers, Pliers, Saws.
Claims use since June 13, 1949.

Ser. No. 588,378. Min-R-L-Rubr Corp., New York, N. Y. Filed Nov. 26, 1949.

Jet. O. Mat

The word "Jet" is disclaimed.
For Device for Injecting Insulating Material Into the Surface of Foundations in Subsoil, Said Device Comprising a Pump, Tank, Connecting Hoses, and Injecting Nozzles.
Claims use since Sept. 2, 1949.

Ser. No. 592,517. The Porter-Cable Machine Company, Syracuse, N. Y. Filed Feb. 15, 1950.

Speedmatic

For Floor Surfacing Machines, Stationary Grinders, and Portable Power Operated Tools Consisting of Routers, Shapers, Planes, Mortisers, Saws, Sanding Machines, and Cutters for Such Tools.
Claims use since Feb. 24, 1928.

Ser. No. 596,758. Shellmar Products Corporation, Chicago, Ill. Filed May 2, 1950.

"SHELL-PAKIT"

The word "Pakit" is disclaimed. Applicant claims ownership of Registrations Nos. 331,679, 345,706, and 365,550.
For Automatic Packaging Machines—Namely, Machines for Forming, Filling, and Closing Merchandise Containers.
Claims use since Apr. 14, 1950.

Ser. No. 599,395. The Star Drilling Machine Company, Akron, Ohio. Filed June 19, 1950.

SPEED STAR

The word "Speed" is disclaimed. Applicant claims ownership of Registration No. 138,129.
For Well Drilling Machines and Parts Therefor.
Claims use since Mar. 29, 1949.

Ser. No. 601,687. The Parkersburg Rig & Reel Company, Parkersburg, W. Va., and Houston, Tex. Filed Aug. 3, 1950.

HYRECO

For High Pressure Gas Well Hook Up Apparatus for Separating Condensible Vapors From Gases in a Flow Line.
Claims use since Mar. 30, 1950.

Ser. No. 607,646. Starline, Inc., Harvard, Ill. Filed Dec. 13, 1950.



Applicant claims ownership of Registrations Nos. 200,639 and 325,725.
For Bull Staffs, Sling Carriers, Pulleys, and Crank Operating Mechanisms for Opening and Closing Stanchions of Stalls and Stock Pens.
Claims use since 1883.

Ser. No. 611,443. The Maxim Silencer Company, Hartford, Conn. Filed Mar. 16, 1951. (Sec. 2f.)

MAXIM

Applicant claims ownership of Registration No. 207,740.
For Silencers for Use in Connection With the Exhausts or Inlets of Engines, Pumps, Compressors, Blowers, Jets, Reducing Valves or Safety Valves To Quiet or Prevent Borne Noises; Snow Plows for Attachment to the Bumper of an Automobile To Be Pushed Thereby; and Manually Guided Snow Throwers Propelled and Having a Rotor Driven by an Internal Combustion Engine.
Claims use since July 1, 1912.

Ser. No. 614,328. Aktiebolaget Bofors, Bofors, Sweden. Filed May 25, 1951.

BODUR

Applicant claims ownership of Swedish Registration No. 65,665, dated Jan. 7, 1949, on an application filed Sept. 8, 1948.
For Tools—Namely, Lathe Tools, Roughing Tools, Planing Tools, Cutting-Off Tools, Slotting Tools; Tool Bits; Drills for Glass; Cutlery Steels; Turning Chisels; Facing Cutters; Scraping Cutters; Pivots for Lathes; Scraping Irons, All Entirely or Partly Made of Tungsten Carbide.

Ser. No. 614,530. Waterly Petroleum Products Company, Philadelphia, Pa. Filed May 29, 1951.

SANI-MISTER

The word "Mister" is disclaimed.
For Tank With Treadle Mechanism Which Sprays a Solution on Feet and Ankles When Stepped on.
Claims use since Apr. 17, 1951.

Ser. No. 614,979. Ammco Tools, Inc., North Chicago, Ill. Filed June 9, 1951.

AMMCO

Applicant claims ownership of Registrations Nos. 282,012, 282,013, and others.
For Brake Shoe Grinders, Valve Tappet Grinders, Valve Tappet Screw Grinders, Valve Lifter Grinders, Brake Piston Injectors, and Rocker Arm Grinders.
Claims use since Nov. 22, 1949.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 582,687. Charles L. Hittel, Newark, N. J. Filed July 29, 1949.

Genie

For Washing Racks for Venetian Blinds.
Claims use since June 20, 1949.

Ser. No. 599,706. Hamilton Manufacturing Company, Two Rivers, Wis. Filed June 24, 1950. (Sec. 2f as to "Hamilton.")

Hamilton
AUTOMATIC CLOTHES DRYER

The words "Automatic Clothes Dryer" are disclaimed. Applicant claims ownership of Registration No. 401,589.
For Cabinet Automatic Clothes Dryers.
Claims use since June 15, 1946 on the mark as shown; and since June 1, 1941 on the word "Hamilton."

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 581,404. The Case History, Detroit, Mich. Filed July 1, 1949.

Tele-Template

The word "Template" is disclaimed.
For Apparatus Used in Connection With the Servicing of Automobiles for Marking Service Record Cards To Indicate Recommended Service Operations, Comprising Apertured Plates Adapted To Overlie Said Cards and Co-Operating Frames for Supporting a Card and Plate in a Predetermined Relative Position.
Claims use since May 11, 1949.

Ser. No. 583,679. Aaron Davis, Harwichport, Cape Cod, Mass. Filed Aug. 19, 1949.

CAPE

For Weather Measuring Instruments and Indicators—Namely, Anemoscopes, Anemometers, Mechanical Rain Measuring Devices in the Nature of Oscillating Rain Collecting Receptacles Connected to Counting Means for Measuring the Oscillations.
Claims use since Dec. 16, 1939.

Ser. No. 586,508. Willson Products, Inc., Reading, Pa. Filed Oct. 18, 1949. (Sec. 2f as to "Willson.")

WILLSON-LITE

The word "Lite" is disclaimed. Applicant claims ownership of Registrations Nos. 108,119, 442,880, 514,112, and 279,911.
For Eyeglasses—Namely, Sunglasses.
Claims use since Aug. 18, 1949 as to the mark shown; and since 1870 as to "Willson."

Ser. No. 597,817. Dearborn Motors Corporation, Birmingham, Mich. Filed May 20, 1950.

PROOF-METER

The word "Meter" is disclaimed.
For Combination Tachometer and Hour Meter for Tractors, More Particularly a Meter Designed To Record Engine Speed, Ground Speed, Belt-Pulley Speed, Power-Take-Off Speed, and Number of Hours Which Engine Has Run.
Claims use since May 16, 1950.

Ser. No. 602,791. Westinghouse Electric Corporation, East Pittsburgh, Pa., and Baltimore, Md. Filed Aug. 25, 1950.

Autoflex

For X-Ray Apparatus, and More Particularly a Control Panel or Cabinet Provided With Various Control Switches, Push Buttons, and the Like.
Claims use since June 21, 1948.

Ser. No. 603,559. F. J. Stokes Machine Company, Philadelphia, Pa. Filed Sept. 14, 1950.

FJS

Applicant claims ownership of Registration No. 541,646.
For Vacuum Gauges and Recording Vacuum Gauges.
Claims use since March 1941.

Ser. No. 603,706. V. & E. Manufacturing Co., Pasadena, Calif. Filed Sept. 18, 1950.



The mark consists of a spot in blue appearing on the lower portion of one or both lateral faces of one or both legs of the compass. No claim is made to the portion of the lower leg of the compass, shown in dotted lines.
For Drawing Instruments—Namely, Compasses.
Claims use since Sept. 30, 1949.

Ser. No. 603,707. V. & E. Manufacturing Co., Pasadena, Calif. Filed Sept. 18, 1950.



The mark consists of a recessed spot in yellow appearing on the lower portion of one or both lateral faces of one or both of the legs of the compass. No claim is made to the portion of the lower leg of the compass, shown in dotted lines. Applicant claims ownership of Registration No. 399,580.
For Drawing Instruments—Namely, Compasses.
Claims use since Oct. 20, 1949.

Ser. No. 607,276. Alemite Company of Southern California, Los Angeles, Calif, assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia. Filed Dec. 5, 1950.

MOTOR MINDER

The word "Motor" is disclaimed.
For Internal Combustion Engine Operation and Efficiency Indicator Adapted To Be Mounted on the Dash of an Automotive Vehicle, in the Nature of a Vacuum Gauge Which Checks All Elements of Engine Operation, Including Carburetor Adjustment, Ignition Timing, Valve Adjustment, Etc.
Claims use since June 23, 1950.

Ser. No. 608,051. Acu-Rule Manufacturing Company, St. Louis, Mo. Filed Dec. 26, 1950.

ACU MATH

The word "Math" is disclaimed.
For Slide Rules.
Claims use since Dec. 15, 1949.

Ser. No. 613,096. The Univis Lens Company, Dayton, Ohio. Filed Apr. 24, 1951.



The word "Lenses" and the representation of the lenses are disclaimed.
For Ophthalmic Lens Blanks and Eyeglass Lenses.
Claims use since Mar. 9, 1951.

Ser. No. 613,381. Otis Engineering Corporation, Dallas, Tex. Filed May 1, 1951. (Sec. 2f.)

OTIS

Applicant claims ownership of Registration No. 356,656.
For Oil and Gas Well Tools and Oil and Gas Well Producing and Servicing Equipment—Namely, Tubing Gages, Casing Gages, Tubing Calipers, Casing Calipers, and Parts Therefor.
Claims use since Jan. 1, 1936.

Ser. No. 614,235. Aviation Engineering Corporation, Woodside, N. Y. Filed May 23, 1951.

Avien

For Aircraft Instruments—Namely, Fuel Quantity Gauge, Cylinder Head Temperature Indicator, Exhaust Gas Thermometer, and Jet Engine Thrust Indicator.
Claims use since March 1948.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 605,985. Philip Boone, Winchester, Mass. Filed Nov. 7, 1950.

Miráj

For Unmounted Synthetic Stones for Incorporation With Bracelets, Brooches, Cigarette Boxes, Cuff Buttons, Decorative Buttons, Earrings, Rings, Lapel Pins, Medallions, Ornamental Pins, Pendants, and Cosmetic Boxes.
Claims use since Feb. 20, 1950.

Ser. No. 610,163. Carroll F. Chatham, doing business as Chatham Research Laboratories, San Francisco, Calif. Filed Feb. 16, 1951. (Sec. 2f.)

Chatham Emeralds

The word "Emeralds" is disclaimed.
For Unmounted Gems—Namely, Emeralds Manufactured According to a Special Process.
Claims use since 1940.

Ser. No. 611,186. Murray Hill Restaurant, Inc., New York, N. Y. Filed Mar. 12, 1951.



Jack & Charlie's "21"

For Statues, Bracelets, Trinkets for Attachment to Wrist Bands, Lockets, Charms, Money Clips, Watch Bands, Buckles, Cuff Links, Finger Rings, and Ornamental Pins, Made Wholly or in Part of Precious Metals.
Claims use since Jan. 2, 1935.

Ser. No. 611,648. Wayne W. Light, New York, N. Y. Filed Mar. 22, 1951.

MIRIDIS

For Stones and Gems for Articles of Jewelry and Cut From Crystallized Oxide of Titanium.
Claims use since Jan. 2, 1950.

Ser. No. 612,297. Nathan Berrie & Sons, New York, N. Y. Filed Apr. 6, 1951.



The words "Means Progress" are disclaimed. Applicant claims ownership of Registration No. 516,665.
For Jewelry Findings, Neck Chains and Jewelry Chains Sold by the Foot.
Claims use since Jan. 15, 1951.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 597,404. Pratt R. Loveland, doing business as Loveland Engrg. & Mfg. Co., Chicago, Ill. Filed May 13, 1950.

WIND-O-WONDER

The term "Wind-O" is disclaimed.
For Squeegee for Washing Windows.
Claims use since Feb. 20, 1950.

Ser. No. 598,940. Alston Manufacturing Company, Oakland, Calif. Filed June 12, 1950.

Alston CHEM-WAND

The words "Alston" and "Wand" and the representation of the brush are disclaimed.
For Device Consisting of a Tube, Nozzle, and Brush Used for the Purpose of Applying a Weed Destroying Preparation.
Claims use since Sept. 10, 1948.

Ser. No. 604,828. Vine Associates, Beverly, N. J. Filed Oct. 12, 1950.

BRUMOP

For Washable Covers Adapted for Use With Either Brooms or Mops.
Claims use since June 1, 1950.

Ser. No. 613,417. National Novelty Company, Lancaster, Pa. Filed May 2, 1951.

NANCO

For Acid, Glue, and Paste Brushes; Bottle and Radiator Brushes of the Twisted Wire Type; Cleaning Brushes; Rubber Cement and Stamp Pad Ink Brushes; Touch Up Brushes and Nail Polish Brushes; Typewriter Eraser Brushes; Pastry and Corn Buttering Brushes.
Claims use since Apr. 25, 1951.

Ser. No. 615,207. W. A. Ballinger & Co., San Francisco, Calif. Filed June 15, 1951.

SILVER THREAD

For Mops and Mop Heads.
Claims use since November 1942.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 550,467. Uniflow Manufacturing Company, Erie, Pa. Filed Feb. 24, 1948. (Sec. 2f—additional evidence.)

KOLD DRAFT

Applicant claims ownership of Registration No. 364,647.
For Bottle Coolers, Walk-In Cooling Cabinets, Electric and Other Refrigerating Apparatus, Combined Cooling and Beverage Dispensing Cabinets, Air Filters for Use in Conjunction With Beverage Dispensing Apparatus and Ice Cube Making Cabinets.
Claims use since Feb. 15, 1937.

Ser. No. 606,051. Earl C. Reynolds, doing business as Soft-O Equipment Co., Detroit, Mich. Filed Nov. 7, 1950.

Soft-O

For Zeolite Type Water Softening Apparatus.
Claims use since Mar. 7, 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 565,781. Hartwig Incorporated, Milwaukee, Wis. Filed Sept. 24, 1948.



The wording, except "Packy," is disclaimed.
For Display Cabinets.
Claims use since July 27, 1948.

Ser. No. 577,126. Kent-Moore Organization, Inc., Detroit, Mich. Filed Apr. 14, 1949.



For Merchandiser Cabinets and Service Desks.
Claims use since November 1939.

Ser. No. 586,742. The Emporium Capwell Company, doing business as The Emporium, San Francisco, Calif. Filed Oct. 24, 1949. (Sec. 2f as to the words "The Emporium".)

The BIG E

The stippling is for shading only.
For Venetian Blinds, Book Ends, Cabinets, Furniture Cushions, Cedar Chests, Convertible Chair-Beds, Chairs, Slip Covers, Couches, Desks, Display Stands, Display Racks, Display and Serving Counters, Sets of Shelves and Shelving Units, Filing Cases, Picture or Mirror Frames, Gliders (Lawn or Porch), Hammocks Equipped With Supporting Frames, Mattresses, Mirrors, Vanity Pocket Mirrors, Pillows, Hassocks, Play Pens, Rubber Cushions, Divisional Folding Screens for Domestic Use, Window Shades, Bed and Furniture Springs, Sofas, Tables, Venetian Blind Assemblies, Beds, and Lounges.
Claims use since May 25, 1949 as shown; and since August 1896 as to the words "The Emporium."

Ser. No. 595,886. The Englander Company, Inc., Chicago, Ill. Filed Apr. 18, 1950.

Proper -Poise

The term "Proper" is disclaimed.
For Mattresses and Box Springs.
Claims use since Nov. 3, 1946.

Ser. No. 601,265. L & B Products Corporation, New York, N. Y. Filed July 26, 1950.

LION-a-MATIC

For Table Bases Having Self-Leveling Supports.
Claims use since Feb. 16, 1950.

Ser. No. 601,341. Stern & Co., Philadelphia, Pa. Filed July 27, 1950.



The drawing is lined for shading only.
For Furniture Made of Wood or Metal—Namely, Cabinets, Shelves, Closets, Wardrobes, Chests, and Chests of Drawers.
Claims use since May 15, 1950.

CLASS 33

GLASSWARE

Ser. No. 611,187. Murray Hill Restaurant, Inc., New York, N. Y. Filed Mar. 12, 1951.



Jack & Charlie's "21".

For Drinking and Wine Glasses, Glass Stirrers, Glass Muddlers, Glass Decanters, Glass Steins, and Glass Tankards.
Claims use since Jan. 2, 1935.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 570,250. C. R. Daniels, Inc., Baltimore, Md. Filed Dec. 9, 1948.

D
A
N
C
O

For Oil Heaters.
Claims use since December 1929.

Ser. No. 583,072. The Allbright-Nell Company, Chicago, Ill. Filed Aug. 6, 1949.



The drawing is lined for red.
For Packing House Equipment—Namely, Cabinets for Processing Meat Food Products by Heat, Frankfurter Steaming and Chilling Cabinets, Rendering Cookers, Steam Jacketed Driers for Tankage, Steam Jacketed Kettles for Rendering Animal Products, Chicken Singers, Sausage Cooking Tanks, Oleo Melting and Clarifying Kettles, Margarine Melting and Tempering Tanks, and Apparatus for Producing Smoke, Aerating, and Controlling the Temperature of Smoke Houses.
Claims use since the fall of 1918.

Ser. No. 600,409. Automatic Firing Corporation, St. Louis, Mo. Filed July 10, 1950.

Cool-a-Matic

The word "Cool" is disclaimed.
For Space Cooling Machinery in the Nature of Air Conditioning Units Designed To Cool, Humidify, Dehumidify and/or Circulate Air Within a Predetermined Space, Such as a Room or the Like.
Claims use since June 8, 1950.

Ser. No. 607,647. Starline, Inc., Harvard, Ill. Filed Dec. 13, 1950.



The trade-mark comprises the representation of a star cut in, or formed on, the goods. Applicant claims ownership of Registration No. 357,244.
For Barn Roof Ventilators Comprising Conduits With Inlets and Outlets Some of Which Are Provided With Fans and With and Without Weather Vane Attachments, and Ventilating Fan Units.
Claims use since 1931.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 590,350. Bowes "Seal-Fast" Corporation, Indianapolis, Ind. Filed Jan. 5, 1950.

WHITE LINE

For Rubber Patches for Pneumatic Inner Tubes for Tires.
Claims use since Feb. 1, 1927.

Ser. No. 600,462. Chicago Bridge & Iron Company, Chicago, Ill. Filed July 7, 1950.

CHI-LON

For Diaphragms of Nylon Fabric Material Coated With Rubber and Manufactured for Use With Vapor and Volatile Liquid Storage Tanks.
Claims use since June 14, 1950.

Ser. No. 616,053. Sea-Ro Packing Company, Incorporated, Wood-Ridge, N. J. Filed July 3, 1951.

SAV-ON

For Packing for Use in Stuffing Boxes in Reciprocatory, Rotary, and Centrifugal Pumps and in Valves.
Claims use since June 15, 1951.

CLASS 37

PAPER AND STATIONERY

Ser. No. 524,900. Richard Best Pencil Company, Inc., Springfield, N. J. Original filed, act of 1905, June 26, 1947; amended to application under act of 1946, Principal Register, Oct. 25, 1948. (Sec. 2f—additional evidence.)



The word "Pencils" is disclaimed.
For Pencils.
Claims use since May 6, 1935.

Ser. No. 551,983. The Lees Textile Company, Lowell, Mass. Filed Mar. 15, 1948. (Sec. 2f.)

TYWELL

For Materials for Use in Wrapping Gifts—Namely, Gift Wrapping Papers, Cards in Both Blank and Partially Printed Form, Tags in Both Blank and Partially Printed Form, and Seals in Both Blank and Partially Printed Form.
Claims use since Nov. 1, 1923.

Ser. No. 553,056. American Reenforced Paper Company, Attleboro, Mass. Filed Mar. 26, 1948.

FIBREEN

Applicant claims ownership of Registrations Nos. 140,313, 203,216, and 540,819.
For Reenforced Paper for Wrapping and Packaging.
Claims use since Mar. 1, 1920.

Ser. No. 554,129. Kemart Corporation, San Francisco, Calif. Filed Apr. 8, 1948.



For Drawing Papers and Illustration Boards Having a Specially Prepared Luminescing Surface for Specific Activation by an Irradiating Source.
Claims use since Mar. 5, 1947.

Ser. No. 586,438. Standard Cap and Seal Corporation, Chicago, Ill. Filed Oct. 17, 1949.

PANASEAL

For Laminated Material—Namely, Paper, Laminated With Rubber Hydrochloride, Sold in Sheet Form and Used as a Sealing Liner in Caps Which Are Used as Closures on Glass, Metal, or Other Containers Used for Packaging Foods, Fruits, Drugs, Cosmetics, Etc.
Claims use since Feb. 1, 1944.

Ser. No. 595,388. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Apr. 7, 1950.


Thermo-Fax

The design in the drawing is lined to indicate red.
For Heat-Sensitive Cellulosic Sheet Material for Making Duplicate Copies of Typed or Printed Matter, Said Cellulosic Sheet Material Being Adapted for Use in a Machine Providing an Infra-Red Ray Source, Said Infra-Red Rays Being Converted to a Heat Pattern by the Type Face on the Original Typed or Printed Matter, Said Heat Pattern Acting Upon Said Sensitized Sheet To Render a Duplicate Copy of the Original Matter Visible Thereon.
Claims use since February 1950.

Ser. No. 597,100. Roseth Corporation, New York and Brooklyn, N. Y. Filed May 8, 1950.

IMPERIAL

For Tar Paper for Wrapping and Storage Purposes.
Claims use since 1930.

Ser. No. 599,073. Atlantic Paper Company, Philadelphia, Pa. Filed June 14, 1950.

ADELPHIA
ENAMEL

The word "Enamel" is disclaimed.
For Starch Coated Book Paper.
Claims use since Mar. 22, 1950.

Ser. No. 600,071. Roy P. Palmer, doing business as Poster-Message Service, Minneapolis, Minn. Filed June 30, 1950.

Salesvertising NEWS

The word "News" is disclaimed.
For Paper Blanks for Advertising Posters.
Claims use since Jan. 1, 1945.

Ser. No. 603,681. Gulf States Paper Corporation, Tuscaloosa, Ala. Filed Sept. 18, 1950. (Sec. 2f—Additional evidence.)

TUFF BUFF

The word "Buff" is disclaimed. Applicant claims ownership of Registrations Nos. 545,051 and 263,618.
For Wrapping Paper and Butchers Paper.
Claims use since October 1929.

Ser. No. 613,822. The Parker Pen Company, Janesville, Wis. Filed May 12, 1951.

Aero-metric

For Fountain Pens, Mechanical Pencils, Pen Desk Sets, and Filling Mechanisms for Fountain Pens.
Claims use since Sept. 13, 1948.

Ser. No. 614,562. Minnesota and Ontario Paper Company, Minneapolis, Minn. Filed May 31, 1951.

MANDOCOTE

Applicant claims ownership of Registrations Nos. 526,995, 526,996, 527,344, and 527,345.
For Coated Paper.
Claims use since May 23, 1951.

Ser. No. 616,923. Protecto Products Co., Inc., Pomona, Calif. Filed July 25, 1951.

Tisco

Applicant claims ownership of Registration No. 414,759.
For Waxed Paper.
Claims use since May 17, 1951.

Ser. No. 617,014. The Crystal Tissue Company, Middletown, Ohio. Filed July 27, 1951.

Waxette

For Waxed Paper in Rolls and Sheets.
Claims use since August 1949.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 551,520. Bulletin Company, Philadelphia, Pa. Filed Mar. 9, 1948. (Sec. 2f—Additional evidence.)

The Sunday Bulletin

Applicant claims ownership of Registration No. 229,647.
For Periodical Publications.
Claims use since Feb. 9, 1947.

Ser. No. 605,278. The Photographers' Association of America, Wilmington, Del., and Toledo, Ohio. Filed Sept. 21, 1950.

The National Photographer

The word "Photographer" is disclaimed.
For Monthly Publication.
Claims use since May 31, 1950.

Ser. No. 608,406. Berger-Amour Studios, Chicago, Ill. Filed Jan. 5, 1951.

displa-mobile

The term "Displa" is disclaimed.
For Advertising Displays Known to the Trade as Point-of-Sale Advertising Material Sold as Such.
Claims use since Nov. 29, 1950.

Ser. No. 612,780. Fritz Wilkinson, Point Lookout, N. Y. Filed Apr. 17, 1951.

THAT'LL BE THE DAY!

For Syndicated Newspaper Feature.
Claims use since Mar. 19, 1951.

Ser. No. 613,413. League of Women Voters of the United States, Washington, D. C. Filed May 2, 1951.



The representation of the map of the United States and the wording "League of Women Voters of the U. S." are disclaimed. The drawing is lined for blue.
For Educational Periodical Publications.
Claims use since Apr. 2, 1951.

Ser. No. 614,546. Fairchild Publications, Inc., New York, N. Y. Filed May 31, 1951.

The Jewel Box

The word "Jewel" is disclaimed.
For Newspaper Column or Columns.
Claims use since Nov. 17, 1950.

Ser. No. 616,191. Sleepy Hollow Craftsmen, Inc., Cincinnati, Ohio. Filed July 6, 1951.

Forever Portrait

The word "Portrait" is disclaimed.
For Colored Portraits Prepared From Negatives or Other Likenesses, Processed and Finished To Inhibit All Forms of Deterioration.
Claims use since Apr. 2, 1951.

Ser. No. 616,316. Frank Hart, doing business as Hart Manufacturing Company, Hot Springs, Ark. Filed July 11, 1951.

VITROLUX

For Transfer Decorations for the Ceramic Trade.
Claims use since Apr. 4, 1947.

Ser. No. 617,398. Globe Democrat Publishing Company, St. Louis, Mo. Filed Aug. 7, 1951.

Between the LINES

For Feature Column of a Newspaper.
Claims use since Apr. 8, 1951.

Ser. No. 617,489. The Child's World, Inc., Chicago, Ill. Filed Aug. 9, 1951. (Sec. 2f.)

THE CHILD'S WORLD

Applicant claims ownership of Registration No. 421,644.
For Set of Reference Books for Children.
Claims use since Feb. 13, 1945.

Ser. No. 617,525. Allied Chemical & Dye Corporation, New York, N. Y. Filed Aug. 10, 1951.

FARM AID

For Booklets, Pamphlets, or Leaflets Issued From Time to Time.
Claims use since 1943.

Ser. No. 617,828. The Washington Post Company, Washington, D. C. Filed Aug. 17, 1951.

The DISTRICT LINE

For Column in a Newspaper.
Claims use since Jan. 13, 1947.

CLASS 39
CLOTHING

Ser. No. 575,613. Warren Shirts, Inc., New York, N. Y., now by change of name, Safe-In-Suds, Inc., a corporation of New York. Filed Mar. 17, 1949. (Sec. 2f—Additional evidence.)

Safe-in-Suds

For Men's Outer Shirts.
Claims use since Feb. 4, 1949.

Ser. No. 597,130. Couri-Amoury Inc., New York, N. Y. Filed May 9, 1950.



The words "Dipa-Shirt" are disclaimed.
For Infants' Diapers.
Claims use since Dec. 19, 1949.

Ser. No. 598,203. Peck & Peck, New York, N. Y. Filed May 26, 1950.



Applicant disclaims exclusive right to the use of fabrics in the design shown on the drawing.
For Articles of Wearing Apparel for Women and Girls—Namely, Coats; Overcoats; Raincoats; Mackinaws; Sport Coats; House Coats; Fur Coats; Fur Trimmed Coats; Capes; Wraps; Jackets; Skirts; Slacks; Shorts; Suits; Dresses; Outer Waists; Lounging Robes; Hosiery; Gloves Made Wholly or Partly of Fabric, Leather, or Fur; Outer Shirts; Sweaters; Jerseys; Trimmed and Untrimmed Hats; Caps; Scarfs; Shawls; Neckties; Mufflers and Reefers; Guimpes; Vestees; Jabots; Belts for Personal Wear; Bathing Suits; Bathing Capes; and Bathing Accessories—Namely, Bathing Caps, Bathing Belts, Bathing Shoes, Bathing Sandals, and Beach Robes; All Made of Materials Other Than the Material of the Pattern Shown in the Drawing.
Claims use since 1938.

Ser. No. 603,922. Gowns by Priscilla of Boston, Inc., Boston, Mass. Filed Sept. 23, 1950.

Gowns by Priscilla of Boston

The wording "Gowns by" and "of Boston" is disclaimed.
For Women's Gowns and Dresses.
Claims use since Oct. 1, 1947.

Ser. No. 605,900. Carl Gutmann & Co., Inc., New York, N. Y. Filed Nov. 4, 1950.

KACTUS DAN

For Ladies' and Misses' Sweaters, Blouses, and Outer Sport Shirts.
Claims use since Jan. 10, 1949.

Ser. No. 607,008. John Carr Doughty Limited, Leicester, England. Filed Nov. 28, 1950.

KIDDIEBRIGHT

Applicant claims ownership of British Registration No. B683,916, dated Nov. 12, 1949.
For Articles of Knitted Clothing for Children—Namely, Jerseys, Pullovers, Slipovers, Jumpers, Cardigans, Sweaters, Coats, Shirts, Scarves, Dresses, Skirts, Suits, Pants, Slacks (Trousers), Swim-Suits, Trunks, Play-Suits, Leggings, Stockings, Socks, Half-Hose, Three-Quarter Hose, Ankle-Socks, Knickers, Under-Pants, Combination Garments, Vests, Slips, Pantees, Cami-Knickers, Briefs, Nightdresses, Pyjamas, Sleeping-Suits, Bodices, Gloves, Mitts, Mittens, Sun-Suits, Overalls, Hats, Caps, Bonnets, Hoods, Boots, Slippers, Bootees, Matinee Jackets, Rompers, Shawls, and Capes.

Ser. No. 607,258. Missouri Garment Company, Inc., Kansas City, Mo. Filed Dec. 4, 1950.

Sportrix..

The drawing is lined for the color red.
For Blouses, Dusters, Halters, Jackets, Pedal Pushers, Petticoats, Shorts, Skirts, Scarfs, Stoles, and Weskits.
Claims use since Nov. 1, 1950.

Ser. No. 607,831. Spur Knitting Mills, Inc., New York, N. Y. Filed Dec. 18, 1950.



The words "A Creation" are disclaimed. Applicant claims ownership of Registrations Nos. 388,547, 512,310, 539,905, and 544,471.
For Ladies', Misses', Children's Sweaters, and Knitted Pantie Suits for Infants and Children.
Claims use since January 1942.

Ser. No. 611,365. Knit Products Corporation, Belmont, N. C. Filed Mar. 15, 1951.

Vision

Applicant claims ownership of Registrations Nos. 291,067 and 377,449.
For Ladies' Hosiery.
Claims use since Jan. 1, 1938.

Ser. No. 612,911. William Hollins & Company Limited, Nottingham, England. Filed Apr. 20, 1951.

AZA

Applicant claims ownership of British Registration No. 295,536, dated Aug. 14, 1907 and United States Registration No. 83,068.
For Women's Garments, Comprising Costumes, Blouses, and Shirtwaists, Nightdresses, Dressing-Gowns, Dressing-Jackets, Petticoats, Knickers, Combination Suits, Bodices, Bathing Costumes, and Scarfs; Men's and Boys' Garments, Comprising Outer Shirts, Night-Shirts, Tennis Suits, Pajamas, Summer Vests, Tennis-Shirts, Dressing-Gowns, Linen Collars, Belts, Shirts, Knickerbockers, Jackets, and Combination Suits; Articles of Clothing for Men or Women, Comprising Gloves of Leather and/or Fabric, Vests, Pants, Socks, and Stockings.

Ser. No. 616,586. Colleen Knitwear Corp., New York, N. Y. Filed July 17, 1951.

Barbara Jane

For Ladies', Misses', Sweaters.
Claims use since May 14, 1951.

Ser. No. 616,958. Sam Landau, New York, N. Y. Filed July 26, 1951.

DreamDays

For Ladies' Pajamas.
Claims use since Apr. 24, 1950.

Ser. No. 617,111. A. J. Edlin Manufacturing Co., Inc., St. Louis, Mo. Filed July 30, 1951.

Blouses by
Albert

The word "Blouses" is disclaimed.
For Women's and Misses' Blouses.
Claims use since May 15, 1951.

Ser. No. 617,332. Artistic Foundations, Inc., New York, N. Y. Filed Aug. 4, 1951.

FULL-BLOOM

For Brassières.
Claims use since July 20, 1951.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 595,931. The American Fabrics Company, Bridgeport, Conn. Filed Apr. 19, 1950.



The representation of a woman is fanciful and that of the goods is disclaimed.
For Laces, Embroideries, and Narrow Woven Fabrics All in the Nature of Findings Intended To Be Utilized in the Fabrication of Clothing and Piece Goods.
Claims use since 1925.

Ser. No. 603,874. Beltx Corporation, St. Louis, Mo. Filed Sept. 22, 1950.

Beltx

Applicant claims ownership of Registrations Nos. 261,096 and 442,953.
For Adjustable Shoulder Straps, Bra-Girdle Fasteners and Garter Grips.
Claims use since March 1947.

Ser. No. 606,592. Anchor Plastics Company, Inc., New York, N. Y. Filed Nov. 18, 1950.

BONAR

For Bones or Stays.
Claims use since July 1, 1949.

Ser. No. 609,126. G-H-S. Corporation, New York, N. Y. Filed Jan. 23, 1951.

Paula Margon

The name "Paula Margon" is fictitious.
For Human Hair Goods Consisting of Braids, Switches, Chignons, Puffs, Curls, and Transformations.
Claims use since Dec. 18, 1950.

Ser. No. 611,863. Standard Ribbon Co., New York, N. Y. Filed Mar. 27, 1951.

Perma-Seam

The word "Seam" is disclaimed.
For Seam Binding.
Claims use since Feb. 14, 1951.

Ser. No. 612,525. The American Crayon Company, Sandusky, Ohio. Filed Apr. 12, 1951.

TACCO

For Art Needlework and Painting Kits Containing Fabric Articles With Designs Marked Thereon, Textile Paints, Brush and Stencils.
Claims use since Feb. 9, 1951.

Ser. No. 613,296. Koh-I-Noor, Spojené Kovoprúmyslové Závody, Národní Podnik, also doing business under the name "Koh-I-Noor United Metal Ware Factories, National Corporation," Prague, Czechoslovakia. Filed Apr. 28, 1951.

Forever

Applicant claims ownership of Czechoslovakian Registration No. 89,027, dated Mar. 11, 1936.
For Closures and Fasteners Made From Non-Precious Metals for Wearing Apparel—Namely, Buttons, Snap Fasteners, Buckles, Hook and Eye Fasteners, Shoe Rings; Crochet Hooks and Crochet Needles; Hand Knitting and Netting Needles; Mending and Darning Needles; Needles for Hand-Sewing; Bodkins; Thimbles; Combs; Collar Studs; Pins and Clips Made From Non-Precious Metals—Namely, Safety Pins, Hairpins, Hatpins, Scarf Pins, Bobby Pins, Barrets, and Hair Grips.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 587,773. West Point Manufacturing Company, West Point, Ga. Filed Nov. 14, 1949. (Sec. 2f—Additional evidence.)

Fairfax

Applicant claims ownership of Registrations Nos. 156,825, 301,572, and 509,351.
For Pillow Slips, Sheets, and Bleached and Unbleached Sheeting.
Claims use since July 20, 1949.

Ser. No. 591,356. Cloverly Plastics, Inc., New York, N. Y. Filed Jan. 24, 1950.

SELVAL

For Window Curtains and Draperies Made of Plastic Film.
Claims use since Nov. 15, 1949.

Ser. No. 593,910. Decorators Work Shop, Incorporated, Bridgeport, Conn. Filed Mar. 14, 1950.

DECOR-VAL

The word "Decor" is disclaimed.
For Valances, Drapes, Lambrequins, Bed Spreads, and Curtains.
Claims use since Oct. 5, 1949.

Ser. No. 594,294. Summit Mills Corporation, New York, N. Y. Filed Mar. 20, 1950.

Suavella

For Knitted Cotton Piece Goods.
Claims use since May 1945.

Ser. No. 603,976. N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands. Filed Sept. 14, 1950.

Novela



Applicant claims ownership of Dutch Registration No. 84,709, dated June 18, 1946.
For Knitted and Woven Woolen Fabrics.

Ser. No. 604,673. Velveray Corporation, New York, N. Y. Filed Oct. 9, 1950.

SHIMARAY

For Woven Fabrics, Including Flocked Ones, of Cotton, Silk, and Synthetic Fibers, and for Plastic Film for Making Into Raincoats, Curtains, Garment Bags, and the Like.
Claims use since Sept. 1, 1950.

Ser. No. 608,302. Crescent Art Linen Co., New York, N. Y. Filed Jan. 3, 1951.

ROYAL MADE

The word "Made" is disclaimed.
For Dresser and Bureau Scarves, Printed, Embroidered and Flocked Scarfing, Bridge, Vanity, Chair Back and Sheet Sets, Plain and Embroidered Pillow Cases, Printed and Fancy Table Covers, and Printed and Embroidered Kitchen and Guest Towels.
Claims use since Sept. 1, 1939.

Ser. No. 617,319. William Skinner & Sons, Holyoke, Mass., and New York, N. Y. Filed Aug. 3, 1951.

COROLLA

For Fabrics of Silk, Wool, Cotton, Man-Made Fibers, and Combinations Thereof.
Claims use since July 23, 1951.

Ser. No. 619,615. Forstmann Woolen Co., Passaic, N. J. Filed Oct. 5, 1951.

BARODAINE

Applicant claims ownership of Registration No. 274,899.
For Woolen Piece Goods.
Claims use since Sept. 26, 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 581,954. Hospital Equipment Corporation, New York, N. Y. Filed July 14, 1949.

ANCHOR

Applicant claims ownership of Registration No. 262,409.
For Hospital and Surgical Supplies—Namely, Ice Caps and Bags; Clinical Thermometers; Catheters; Rectal and Duodenal Tubes; Suture Needles; Surgical Brushes; Artery Clamps; Bed Pans; Urinals; Pus Basins; Catheter Trays; Medicine Dispensing Trays; Nurses Utility Tray Outfits; Dressing Tray Outfits; Hypo Tray Outfits; Thermometer Tray Outfits; Infant Care Outfitted Baskets; Bedside Dressing Baskets; Blood Diluting Pipettes and Apparatus; Burettes; Drainage and Aspirating Apparatus; Forceps; Fracture Appliances; Nipples; Drains; Tubing Length; Invalid Rings; Crutch Pads and Tips; Suction Pumps; Medicinal Tubings; Tongue Depressors; Sputum Cups; Splints; Crutches; Autopsy, Obstetrical and Surgeon Rubber Gloves; Infant Incubators; Retraint Apparatus; Operating Scissors; Surgical Sutures; Surgical Silk; Sterilizers; Syringes; Hydro-Therapy Baths and Chairs; Medicinal Applicators; Water Bottles; Bandages and Surgical Dressings; Examining Table Pads; Invalid, Operating Table and Stretcher Cushions; Irrigator Stands; Surgical Gowns; Irrigators (for Intestinal, Rectal, and Vaginal Use); Hypodermic and Intravenous Needles; Crank Posture Hospital Beds; and Hydraulic Chair-Tables.
Claims use since December 1920.

Ser. No. 581,955. Hospital Equipment Corporation, New York, N. Y. Filed July 14, 1949.

HOSPICO

Applicant claims ownership of Registration No. 261,925.
For Hospital and Surgical Supplies—Namely, Ice Caps and Bags; Clinical Thermometers; Catheters; Rectal and Duodenal Tubes; Surgical, Hypodermic, Suture, and Intravenous Needles; Surgical Brushes; Artery Clamps; Bed Pans; Urinals; Pus Basins; Catheter Trays; Medicine Dispenser Trays; Nurses Utility Tray Outfits; Dressing Tray Outfits; Hypo Tray Outfits; Thermometer Tray Outfits; Blood Diluting Pipettes and Apparatus; Burettes; Drainage and Aspirating Apparatus; Forceps; Fracture Appliances; Nipples; Drains; Tubing Length; Invalid Rings; Crutch Pads and Tips; Suction Pumps; Medicinal Tubings; Tongue Depressors; Sputum Cups; Splints;

Crutches; Autopsy, Obstetrical, and Surgeon's Rubber Gloves; Infant Incubators; Restraint Apparatus; Operating Scissors; Surgical Sutures; Surgical Silk; Sterilizers; Syringes; Hydro-Therapy Baths and Chairs; Medicinal Applicators; Water Bottles; Bandages and Surgical Dressings; Examining Table Pads; Invalid, Operating Table and Stretcher Cushions; Irrigator Stands; Crank Posture Hospital Beds; and Hydraulic Chair-Tables.
Claims use since December 1920.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 588,541. American Stores Company, Philadelphia, Pa. Filed Nov. 30, 1949.



Applicant claims ownership of Registrations Nos. 209,027, 131,401, 135,586, 211,142, 211,484, 312,131, and 315,974.
For Grape Juice.
Claims use since Oct. 10, 1949.

Ser. No. 590,444. Lawrence Wilfred Johnson, Sauk City, Wis. Filed Jan. 6, 1950.

Celo

For Maltless Soft Drinks and Carbonated Waters.
Claims use since Mar. 18, 1938.

Ser. No. 595,352. Atlantic Extract Company, Inc., Boston, Mass. Filed Apr. 7, 1950.

NEECO

Applicant claims ownership of Registration No. 424,008.
For Carbonated Coffee-Flavored Maltless Soft Drinks.
Claims use since June 1948.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 521,878. Gordon Baking Co., Detroit, Mich. Original filed, act of 1905, May 5, 1947; amended to application under act of 1946, Principal Register, Sept. 20, 1947.



The drawing is lined for blue and red.
For Bread.
Claims use since Jan. 1, 1932.

Ser. No. 527,822. Standard Milling Company, Chicago, Ill. Filed July 5, 1947.



Applicant claims ownership of Registrations Nos. 88,858 and 511,770.
For Wheat Flour.
Claims use since 1931.

Ser. No. 552,940. Cash Economy Wholesale Grocery Co., doing business under the style name of Keco Milling Co. and U-Tote-Em Grocery Company, McKenzie, Tenn. Filed Mar. 25, 1948.

KECO

For Wheat Flour, Coffee, Corn Meal, Livestock Feeds Containing Grain Products, Alfalfa Meal and Minerals, Dairy Feeds Containing Grain Products, Leguminous Products and Minerals, Hog Feeds Containing Tankage, Meat Scraps, Leguminous Products, Grain Products and Minerals, and Poultry Feeds Containing Grain Products or Meat Scraps, Leguminous Products, Vitamin Containing Ingredients and Minerals.
Claims use since 1935.

Ser. No. 557,199. Mountain States Bean Company, Denver, Colo. Filed May 17, 1948.



The drawing is lined for blue.
For Dried Beans, Dried Peas, and Lentils.
Claims use since July 2, 1947.

Ser. No. 569,396. The Ranney-Davis Mercantile Company, Arkansas City, Kans. Filed Nov. 24, 1948.

PAN TREE

For Canned Vegetables, Canned Fruits, Fruit Jellies and Preserves, Tea, Pancake Syrup, Vinegar.
Claims use since Sept. 4, 1928.

Ser. No. 571,838. Bensdorp Inc., Boston, Mass., assignor to Bensdorp, N. V., Bussum, Netherlands, a corporation of Holland. Filed Jan. 8, 1949.



Applicant claims ownership of Registrations Nos. 190,351, 194,126, and 315,878.
For All Products of the Cacao Bean—Namely, Instant Chocolate, Cocoa, Milk Chocolate, Bittersweet Chocolate, Chocolate.
Claims use since Aug. 16, 1948.

Ser. No. 571,983. Mel-Williams Company, San Francisco, Calif. Filed Jan. 11, 1949. (Sec. 2f.)

GOLDEN STATE

Applicant claims ownership of Registration No. 257,428.
For Canned Fruits, Canned Vegetables, Canned Ripe Olives, and Canned Jams.
Claims use since Aug. 18, 1927.

Ser. No. 578,256. California Pet Foods Co., Sacramento, Calif. Filed May 5, 1949.

BONNIE CHUNKIES

Applicant claims ownership of Registration No. 336,618.
For Canned Horsemeat for Dogs and Cats.
Claims use since Mar. 18, 1949.

Ser. No. 582,595. E. J. Brach & Sons, Chicago, Ill. Filed July 28, 1949.

COMTESSA

"Comtessa" is the Italian word for "Countess."
For Candy.
Claims use since September 1935.

Ser. No. 584,946. A. N. Stollwerck, Inc., Camden, N. J. Filed July 13, 1949.

Royal

For Cocoa Butter Sold Only in Large Quantities to Manufacturers for Use in Foods.
Claims use since 1894.

Ser. No. 589,314. Howard D. Johnson Company, Quincy, Mass. Filed Dec. 14, 1949.



For Ice Cream, Chocolates, Milk Cocoa; Bakery Products and Pastries—Namely, Pies and Cakes; Prepared Mustard; Fried Clams; and Frankfurt Rolls.
Claims use since Jan. 15, 1936.

Ser. No. 589,316. Howard D. Johnson Company, Quincy, Mass. Filed Dec. 14, 1949.



For Ice Cream and Ice Cream Bars; Candies—Namely, Assorted Chocolates, Chocolate Covered Patties, Old Fashioned Peppermints, Fudge Bars, Nut Toffee, Popped Pop Corn, Pop Corn Bars, and Sprill Sticks; Bakery Products and Pastries—Namely, Brownies, Pies, Cakes, Date-Nut Bread, and Brown Bread; Canned Baked Beans; Bottled Foods—Namely, Prepared Mustard, Mustard Relish, Mustard Pickle, Barbecue Relish, Piccalilli, Pickled Beets, Cucumber Rings, Tartar Sauce, Salad Dressing, French Dressing, Mayonnaise, Mince Meat, Pan Cake and Waffle Syrup; Corn Muffin Mix; Welsh Rarebit; Fried Clams, Fried Shrimp, Fried Chicken and Fried Fish and Chips; Frankfurt Rolls, Hamburger Sandwiches; and Potato Chips.
Claims use since Jan. 1, 1926.

Ser. No. 594,246. Buckeye Foods, Inc., Columbus, Ohio. Filed Mar. 20, 1950.

Buckeye

For Pretzels and Popcorn, Both Buttered, Ready To Eat and Cheese Coated.
Claims use since Jan. 2, 1944.

Ser. No. 599,023. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Filed June 13, 1950.

Full O'Gold

Applicant claims ownership of Registration No. 260,154.
For Canned Citrus Fruit Juices.
Claims use since Nov. 22, 1928.

Ser. No. 601,345. Waller & Hartley Limited, Blackpool, England. Filed July 27, 1950.



For Candies.
Claims use since Aug. 31, 1931 in Great Britain; and since Nov. 29, 1948 in commerce between Great Britain and the United States.

Ser. No. 603,567. Archem Corporation, Crete, Nebr. Filed Sept. 15, 1950.

enzbar

For Treated Corn for Use in Flour, Feed, Grits, Hominy, Corn Cones, Brewer's Grits, and Meal.
Claims use since Mar. 21, 1950.

Ser. No. 604,744. The Quaker Maid Company, Inc., New York, N. Y. Filed Oct. 11, 1950. (Sec. 2f as to "Ann Page.")



The name "Ann Page" is fanciful. Applicant claims ownership of Registrations Nos. 507,581 and 516,745.
For Canned, Bottled, and Packaged Food Products—Namely, Ketchup, Chili Sauce, Tomato Soup, Beans With Pork, Mayonnaise, Salad Dressing, Honey, Raspberry Jam, Orange Marmalade, Grape Jelly, Blackberry Preserves, Cane and Maple Syrup for Food Purposes, Spaghetti, Macaroni, Noodles, Peanut Butter, Garden Relish, Vinegar, and a Preparation in Powdered Form To Be Mixed With Milk To Form a Malted Food Drink.
Claims use since Dec. 5, 1949 on the mark as shown; and since Dec. 18, 1929 as to the name "Ann Page."

Ser. No. 604,946. Merle L. Alexander, Albuquerque, N. Mex. Filed Oct. 16, 1950.



The representation of the sandwich is disclaimed.
For Sandwiches.
Claims use since Jan. 12, 1950.

Ser. No. 613,556. Calavo Growers of California, Los Angeles, Calif. Filed May 5, 1951.

RAVO

For Fresh Avocados.
Claims use since August 1948.

Ser. No. 613,557. Calavo Growers of California. Los Angeles, Calif. Filed May 5, 1951.

TICO

For Fresh Avocados.
Claims use since August 1948.

Ser. No. 613,916. Ice Cream Novelties, Inc., New York, N. Y., assignor to Fruit Products Corporation, New York, N. Y., a corporation of New York. Filed May 16, 1951.

Ducky Dubble

The word "Dubble" is disclaimed.
For Frozen Confections on Sticks and Liquid Concentrates for Making the Same.
Claims use since Sept. 28, 1949.

Ser. No. 614,076. World Cheese Co., New York, N. Y. Filed May 18, 1951.



The Hebrew characters denote the word "Migdal" which means "Tower."
For Cheese.
Claims use since Apr. 12, 1951.

Ser. No. 615,669. Joseph F. Voet, doing business as Joe Voet, Brawley, Calif. Filed June 25, 1951.

PINKY-PAK

The word "Pak" is disclaimed.
For Fresh Melons and Fresh Vegetables.
Claims use since May 30, 1951.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 563,414. John Labatt Limited, London, Ontario, Canada. Filed Aug. 14, 1948. (Sec. 2f as to "Labatt's.")



The drawing is lined for gold and red. The name "John Labatt" represents a living person whose consent is of record. The name "J. L. Labatt" is fanciful. Applicant claims ownership of Registrations Nos. 57,040, 311,520, and others.
For Ale.
Claims use since June 15, 1948; and since June 15, 1948 in commerce between Canada and the United States.

Ser. No. 584,906. Theo. Hamm Brewing Co., St. Paul, Minn. Filed Sept. 16, 1949.

PREFERRED STOCK

The word "Stock" is disclaimed. Applicant claims ownership of Registration No. 276,567.
For Beer.
Claims use since May 1900.

Ser. No. 613,523. The Pilsener Brewing Company, Cleveland, Ohio. Filed May 4, 1951.

P.O.C.

Applicant claims ownership of Registration No. 113,908.
For Beer.
Claims use since Mar. 28, 1951.

Ser. No. 614,547. The Falls City Brewing Co., Inc., Louisville, Ky. Filed May 31, 1951. (Sec. 2f.)

HI-BRU

Applicant claims ownership of Registrations Nos. 315,494 and 330,306.
For Beer and Ale.
Claims use since Oct. 1, 1933.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 601,123. Wolfschmidt Limited, Charlotte Amalie, St. Thomas, Virgin Islands, and New Haven, Conn. Filed July 22, 1950.



All wording is disclaimed.
For Kummel.
Claims use since 1883.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 582,461. Henry Shapiro, Crescent City, Calif. Filed Aug. 2, 1949.

Q-Tee-Cones

The word "Cones" is disclaimed.
For Decorative Miniature Cones.
Claims use since Apr. 1, 1949.

Ser. No. 611,205. Truscon Steel Company, Youngstown, Ohio. Filed Mar. 12, 1951.



Applicant claims ownership of Registrations Nos. 126,795, 217,123, and others.
For Pallets and Platforms—Namely, Pallets Used To Support Material Boxes Above the Floor for Lift Truck Engagement and Transport, and Skid Platforms for Supporting Material Boxes Above the Floor Level, Racking Window Sash Above the Floor Level After Fabrication and for Shifting Same to Point of Loading for Transport.
Claims use since June 3, 1942.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 515,744. Bristol-Myers Company, New York, N. Y. Original filed, act of 1905, Jan. 15, 1948; amended to application under act of 1946, Principal Register, Aug. 3, 1948.

IPANA

Applicant claims ownership of Registrations Nos. 105,039, 143,560, and 305,023.
For Toothpaste.
Claims use since May 31, 1946.

Ser. No. 577,669. Flonette Products Co., New York, N. Y. Filed Apr. 25, 1949.

Flonette

For Personal Deodorant Lotion for External Application.
Claims use since Mar. 4, 1949.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 578,695. Merchants Chemical Company, Inc., New York, N. Y. Filed May 12, 1949.

MERCO-SOLV

Applicant claims ownership of Registration No. 333,103.
For Chlorinated Solvents Such as Trichlorethylene—Namely, for Degreasing Metals, Fabrics, and Leather, and the Extraction of Oils, Fats, Waxes, Gums, and Alkaloids.
Claims use since May 6, 1949.

Ser. No. 591,423. Neenah Lapey, doing business under the name of Pex Products Co., Hamburg, N. Y. Filed Jan. 25, 1950.

PEX

For Liquid Soap for Personal Use and for Use as a General Cleaner.
Claims use since October 1916.

Ser. No. 606,809. Refined Products Corporation, Lyndhurst, N. J. Filed Nov. 22, 1950.

REPSO MF

Applicant claims ownership of Registration No. 425,590.
For Surface-Active Agent Demonstrating Cation-Active Characteristics, Used in the Manufacture of Cationic Acid Cleaners and as an Additive for Acidic Pickling Liquor and as an Additive for Specific Plating Solutions.
Claims use since May 15, 1950.

Ser. No. 609,196. Peck's Products Company, St. Louis, Mo. Filed Jan. 24, 1951.

PEX

For Soaps, and Dishwashing Detergents.
Claims use since 1926.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 585,464. Union Electric Company of Missouri, St. Louis, Mo. Filed Sept. 28, 1949.

THE LAND WE LIVE IN

For Electric Power and Steam Heat Distribution Services.
Claims use since Mar. 7, 1937.

Ser. No. 587,429. The Diaper Service Institute of America, Philadelphia, Pa. Filed Nov. 7, 1949. CERTIFICATION MARK.



All wording is disclaimed. The representation of the man and the head of the baby are fanciful. The drawing is lined for red and blue.
For Diaper Rental Service.
Claims use since May 1948.

Ser. No. 614,974. Walsh, Inc., Chicago, Ill. Filed June 8, 1951.



The word "Engineers" is disclaimed.
For Consulting Mechanical Engineering Service.
Claims use since August 1946.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 561,360. Where-To-Go Bureau, Inc., Boston, Mass. Filed July 14, 1948. (Sec. 2f—Additional evidence.)

WHERE-TO-GO

For Hotel, Resort, and Travel Advertising and Information Service.
Claims use since Dec. 1, 1907.

Ser. No. 587,646. A. C. Nielsen Company, Chicago, Ill. Filed Nov. 10, 1949.

N
C
I

For Marketing Research—Namely, Marketing Research With Reference to Sales of Consumer Goods.
Claims use since Feb. 1, 1949.

Ser. No. 617,645. Beinap & Thompson, Inc., Chicago, Ill. Filed Aug. 14, 1951.

INCENTIVE BANK OF AMERICA

For Sales Promotion of Clients' Goods or Services by Establishing an Incentive Program To Increase Clients' Individual Salesmen's Quotas Through the Issuance of Prize Checks to the Salesmen Redeemable in Merchandise Prizes.
Claims use since Sept. 28, 1948.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 593,844. Charles W. Turner, doing business as Harry T. Turner Co., Lynn, Mass. Filed Mar. 11, 1950. (Sec. 2f. as to "Turn To Turner.")



For General Real Estate and Mortgage Brokerage; Financing and Management Services—Namely, Selling as Broker, Leasing, Rent Collection, and Management of Real Estate; Real Estate Loan Brokerage Services; General Real Estate Appraisal Services; General Insurance and Bond Brokerage Services.
Claims use since Apr. 21, 1948; and since June 1, 1925 as to the words "Turn To Turner."

Ser. No. 604,600. Shaker Savings Association, Shaker Heights, Ohio. Filed Oct. 7, 1950.



The portrait of the man and woman is fanciful.
For Savings and Loan Services—Namely, the Services of Accepting Funds for Deposit and of Making Mortgage Loans.
Claims use since October 1936.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 585,757. Harry McAdams, doing business as Tulip Hosiery Finishing Co., Philadelphia, Pa. Filed Oct. 4, 1949.

MACADAMIZE

For Finishing of Hosiery—Namely, Dyeing, Boarding, Shaping, and Repairing.
Claims use since May 18, 1949.

Ser. No. 601,808. Serr-Edge Machine Company, Inc., Cleveland, Ohio. Filed Aug. 5, 1950.

SERR-EDGE

The portion "Edge" is disclaimed.
For Knife Sharpening and Serrating Service.
Claims use since July 1946.

Ser. No. 606,963. Baker-Roos, Inc., Indianapolis, Ind. Filed Nov. 27, 1950. (Sec. 2f.)



The words "Column Clamps" and the representation of the goods are disclaimed. The drawing is lined to indicate red.
For Leasing of Clamps for Concrete-Column Forms.
Claims use since Oct. 15, 1928.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 561,360. Where-To-Go Bureau, Inc., Boston, Mass. Filed July 14, 1948. (Classified in Class 101.) (Sec. 2f—Additional evidence.)
See this serial number in Class 101 for goods and mark.
Claims use since Dec. 1, 1907.

CLASS 106

MATERIAL TREATMENT

Ser. No. 585,757. Harry McAdams, doing business as Tulip Hosiery Finishing Co., Philadelphia, Pa. Filed Oct. 4, 1949. (Classified in Class 103.)
See this serial number in Class 103 for goods and mark.
Claims use since May 18, 1949.

Ser. No. 600,703. Shure Brothers, Incorporated, New Haven, Conn. Filed July 14, 1950.

HEIRLOOM

For Chemical Treatment of Garments To Preserve and Permanently Protect the Same Against: Mildew, Bacterial Mold, Decomposition, Discoloration, Moisture, Light, Dust, Moths, and General Deterioration.
Claims use since June 6, 1948.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 593,571. Supreme Council, Mystic Order Veiled Prophets of the Enchanted Realm, Chicago, Ill. Filed Mar. 7, 1950.



The human head represented is fanciful. Applicant claims ownership of Registration No. 431,841.
For Informational Services to Members Relative to Methods and Procedures for Achieving Most Effective Sponsorship of Charitable, Humanitarian, and Civic Causes.
Claims use since June 13, 1890.

Ser. No. 599,046. The Answer Man, New York, N. Y. Filed May 6, 1950. (Sec. 2f.)

THE ANSWER MAN

For Entertainment Service in the Form of Questions and Answers Through the Medium of Radio and Television Broadcasts, Motion Pictures, and Public Appearances.
Claims use since Mar. 16, 1937.

Ser. No. 599,526. National Wildlife Federation, Washington, D. C. Filed June 21, 1950.



The representation of the map of the United States and the wording are disclaimed.
For Informational and Instructive Services Used in the Stimulation and Expansion of Public Interest and Action

in the Furtherance of Wise Management and Conservation of Our Renewable Natural Resources, Through the Furnishing of Lectures, Films, Radio Addresses, Transcribed Programs, Bulletins, News Releases, Miscellaneous Educational and Descriptive Pamphlets, Textbooks for Student and Teacher Instruction, Pictorial Releases, Legislative Information and the Like To Be Distributed to Individuals, Groups, Schools, Clubs, and International Organizations Concerning the Conservation of Wildlife and Organic Resources.

Claims use since Feb. 17, 1949.

Ser. No. 601,393. Roberta Hill, New Bedford, Mass. Filed July 21, 1950.

HARRIET HALL

The name "Harriet Hall" is fictitious.

For Information Service for Women on Such Topics of Interest as the Theatre, Home, Food, Music, and Clothing, Through the Media of Radio Broadcast Programs.

Claims use since Apr. 1, 1949.

Ser. No. 602,298. Martha T. M. Pompender, New York, N. Y. Filed July 31, 1950.

LILLY CHRISTINE

"The Cat Girl"

The name "Lilly Christine" is fictitious.

For Entertainment Service in the Nature of Original Dances and Singing Rendered Through the Medium of Personal Appearances.

Claims use since August 1947.

Ser. No. 614,507. International Baton Twirling Foundation, Johnstown, Pa. Filed May 29, 1951.



The representation of the baton twirler is disclaimed.

For Teaching of the Art of Baton Twirling, and Also Furnishing Baton Twirlers for Organizations and Places of Public Entertainment.

Claims use since Jan. 1, 1951.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,665. Combs Used With Shearing and Clipping Machines. Sunbeam Corporation, Chicago, Ill.
Filed Aug. 30, 1946, Serial No. 508,321. Published Nov. 20, 1951. Class 23.

444,666. Clipping Blades Used With Shearing and Clipping Machines. Sunbeam Corporation, Chicago, Ill.
Filed Aug. 30, 1946, Serial No. 508,324. Published Nov. 20, 1951. Class 23.

444,667. Combs Used With Shearing and Clipping Machines. Sunbeam Corporation, Chicago, Ill.
Filed Aug. 30, 1946, Serial No. 508,325. Published Nov. 20, 1951. Class 23.

444,668. Cutters Used With Shearing and Clipping Machines. Sunbeam Corporation, Chicago, Ill.
Filed Aug. 30, 1946, Serial No. 508,335. Published Nov. 20, 1951. Class 23.

ACT OF 1946, PRINCIPAL REGISTER

555,532. Canned Spaghetti. The William Edwards Company, Cleveland, Ohio.
Original filed, act of 1905, Dec. 13, 1945; amended to application under act of 1946, Principal Register, Oct. 4, 1950, Serial No. 493,178. Published Dec. 18, 1951. Class 46.

555,533. Canned Citrus Juices and Blends Thereof. Dr. P. Phillips Company, Orlando, Fla., assignee of Dr. P. Phillips Canning Company.
Original filed, act of 1905, August 7, 1946; amended to application under act of 1946, Principal Register, Dec. 20, 1949, Serial No. 507,020. Published Dec. 18, 1951. Class 46.

555,534. Fresh Deciduous Fruits. Yakima Fruit Growers Association, Yakima, Wash.
Original filed, act of 1905, Nov. 12, 1946; amended to application under act of 1946, Principal Register, Dec. 16, 1947, Serial No. 512,472. Published Dec. 18, 1951. Class 46.

555,535. Cigar and Cigarette Lighters of a Pyrophoric Type. Blairsville Machine Products Company, Blairsville, Pa.
Original filed, act of 1905, Mar. 27, 1947; amended to application under act of 1946, Principal Register, Aug. 24, 1948, Serial No. 519,621. Published Dec. 4, 1951. Class 8.

555,536. Radiator Stop Leak Preparation. Esso Standard Oil Company, assignee of Tiffie C. Elkins, doing business as Elko Division of W. C. Manufacturing Co., Stephenville, Tex.
Original filed, act of 1905, May 29, 1947; amended to application under act of 1946, Principal Register, Apr. 5, 1948, Serial No. 523,251. Published Oct. 5, 1948. Class 6.

555,537. Machines for Grinding Alined Bearing Surfaces on Crankshafts, Cam Shafts, and the Like. Landis Tool Company, Waynesboro, Pa.
Original filed, act of 1905, June 26, 1947; amended to application under act of 1946, Principal Register, Oct. 15, 1948, Serial No. 524,878. Published Dec. 4, 1951. Class 23.

555,538. Cementitious Materials Adapted for Use in Connection With Waterproofing and Weatherproofing Building Structures. Western Waterproofing Company, Inc., St. Louis, Mo., assignee of Western Waterproofing Company.
Filed July 5, 1947, Serial No. 527,350. Published Nov. 6, 1951. Class 12.

555,539. Optical Rimless Edgers, Optical Cylinder Machine, Optical Master Surfacing Machine, Optical Twin Polisher, Optical Benches, Optical Tapping Machine, and Optical Auxiliary Polisher. The Robinson Houchin Corporation, Columbus, Ohio.
Filed July 5, 1947, Serial No. 527,788. Published Nov. 29, 1949. Class 23.

555,540. Soap. Manhattan Soap Company, Inc., New York, N. Y.
Filed Aug. 22, 1947, Serial No. 532,146. Published Nov. 27, 1951. Class 52.

555,541. Waterproofing and Weatherproofing Compositions—Namely, Cementitious Materials Adapted for Use in Waterproofing and Weatherproofing Structures. Western Waterproofing Company, Detroit, Mich.
Filed Sept. 17, 1947, Serial No. 534,847. Published Nov. 6, 1951. Class 12.

555,542. Canned Fruit and Canned Fruit Juices—Namely, Grapefruit, Orange and Grapefruit Juice, Grapefruit Juice, and Orange Juice, All Canned. Mitchell Canneries, Inc., Fort Meade, Fla., and Thomasville, Ga.
Filed Sept. 30, 1947, Serial No. 536,269. Published July 5, 1949. Class 46.

555,543. Metal Wash Tubs. Wheeling Corrugating Company, Wheeling, W. Va.
Filed Oct. 10, 1947, Serial No. 537,531. Published Dec. 18, 1951. Class 24.

555,544. Fresh Citrus Fruits. Lemon Cove Association, Lemon Cove, Calif.
Filed Oct. 27, 1947, Serial No. 539,184. Published May 22, 1951. Class 46.

555,545. Spray Pressing Guns for Textile and Fabric Finishing, Spray Guns for Moistening in Textile and Fabric Finishing, Condensers for Condensing Moisture in Steam Lines and Supplying Same to Textiles, and Fabric Finishing Apparatus. Dry Cleaning Machinery Corporation, Syracuse, N. Y.
Filed Nov. 6, 1947, Serial No. 540,264. Published Dec. 18, 1951. Class 24.

555,546. Domestic Electric Refrigerators, Domestic and Commercial Water Coolers, Commercial Condensing Units, and Component Parts Therefor. Copeland Refrigeration Corporation, Sidney, Ohio.
Filed Dec. 10, 1947, Serial No. 543,896. Published May 23, 1950. Class 31.

555,547. Enzymes Made of Gastric Juice Used for Intestinal Medication. J. Spohr, Pregassona, Canton Ticino, Switzerland.
Filed Dec. 31, 1947, Serial No. 545,909. Published Nov. 6, 1951. Class 18.

555,548. Automatic Unitary Device Comprising a Pump, Electric Valve, Etc. Automatic Products Company, Milwaukee, Wis., now by change of name A P Controls Corporation, a corporation of Wisconsin.
Filed Mar. 13, 1948, Serial No. 551,849. Published Dec. 4, 1951. Class 23.

555,549. Absorbents Prepared From Natural Earth—To Wit, Fuller's Earth. Floridin Company, Warren, Pa.
Filed Mar. 18, 1948, Serial No. 552,238. Published Dec. 18, 1951. Class 1.

555,550. Fabric and Paper Bags, Sold as Such. Percy Kent Bag Company, North Kansas City, Mo.
Filed Apr. 5, 1948, Serial No. 553,868. Published Dec. 11, 1951. Class 2.

555,551. Tile, Building Blocks, Wall Blocks, Corner Blocks, and Jamb Blocks. Mortarless Tile Machine Co., Inc., Los Angeles, Calif.
Filed Apr. 19, 1948, Serial No. 554,998. Published Nov. 6, 1951. Class 12.

555,552. Return Line Condensation Pump and Receiving Unit. Chicago Pump Company, Chicago, Ill.
Filed May 27, 1948, Serial No. 557,902. Published Dec. 4, 1951. Class 23.

555,553. Women's Coats. S. Stroock & Co. Inc., New York, N. Y.
Filed May 11, 1948, Serial No. 558,196. Published Dec. 11, 1951. Class 39.

555,554. Sponge Rubber Sheet Stock or Pads for Use in the Manufacture of Cushioning Materials. The Dayton Rubber Company, Dayton, Ohio.
Filed July 21, 1948, Serial No. 561,809. Published Dec. 18, 1951. Class 1.

555,555. Stringed and Fretted Instruments—Namely, Guitars, Banjos, Mandolins, Ukuleles, Etc. Sorkin Music Company Inc., New York, N. Y.
Filed July 23, 1948, Serial No. 562,090. Published Apr. 25, 1950. Class 36.

555,556. Insecticides and Fungicides. Food Machinery Corporation, San Jose, Calif., now by change of name Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware.
Filed July 29, 1948, Serial No. 562,462. Published Nov. 27, 1951. Class 6.

555,557. Acetyl Chloride; Ammonium Benzoate; Allylchlorformate; Etc. Hooker Electrochemical Company, Tacoma, Wash., and Niagara Falls, N. Y.
Filed Aug. 11, 1948, Serial No. 563,183. Published Nov. 27, 1951. Class 6.

555,558. Canned Foods for Infants and Invalids—Namely, Strained Soup Mixed Vegetables, Etc. Gerber Products Company, Fremont, Mich.
Filed Aug. 30, 1948, Serial No. 564,383. Published Dec. 11, 1951. Class 46.

555,559. Plastic Dishes for Refrigerator Storage; Plastic Table Dishes; Plastic Boxes for Packaging Food Products; Plastic Boxes for Use in Freezing and Storing Foods in Deep-Freeze Units; and Boxes Made of Plastic for Professional and Industrial Uses. Southern California Plastic Company, Glendale, Calif.
Filed Sept. 11, 1948, Serial No. 565,018. Published Dec. 11, 1951. Class 2.

555,560. Insulated Jugs and Vacuum Jugs. Knapp-Monarch Company, St. Louis, Mo.
Filed July 29, 1948, Serial No. 566,005. Published Dec. 18, 1951. Class 2.

555,561. Insulated Jugs and Vacuum Jugs. Knapp-Monarch Company, St. Louis, Mo.
Filed July 29, 1948, Serial No. 566,006. Published Dec. 18, 1951. Class 2.

555,562. Insulated Jugs and Vacuum Jugs. Knapp-Monarch Company, St. Louis, Mo.
Filed July 29, 1948, Serial No. 566,007. Published Dec. 18, 1951. Class 2.

555,563. Vats Equipped With Baffles and Used in Conjunction With the Cylinder Molds of Paper Board Machines. Downingtown Manufacturing Company, Downingtown, Pa.
Filed Nov. 15, 1948, Serial No. 568,780. Published Dec. 11, 1951. Class 23.

555,564. Shipping Boxes Sold Empty and Made of Cardboard. Moraine Box Company, Dayton, Ohio.
Filed Nov. 26, 1947, Serial No. 568,889. Published Dec. 11, 1951. Class 2.

555,565. Airplanes and Structural Parts Therefor. Lockheed Aircraft Corporation, Burbank, Calif.
Filed Nov. 17, 1948, Serial No. 568,958. Published Dec. 4, 1951. Class 19.

555,566. Venetian Blinds and Slats for Venetian Blinds. Modern Venetian Blinds, Inc., New York, N. Y.
Filed Nov. 17, 1948, Serial No. 568,970. Published Feb. 28, 1950. Class 32.

555,567. Rolled Metal Shapes and Rolled Metal Mouldings for Construction Purposes. The Bailey Company, Incorporated, Amesbury, Mass.
Filed Nov. 23, 1948, Serial No. 569,240. Published Nov. 13, 1951. Class 12.

555,568. Rolled Metal Shapes and Rolled Metal Mouldings for Construction Purposes. The Bailey Company, Incorporated, Amesbury, Mass.
Filed Nov. 23, 1948, Serial No. 569,241. Published Nov. 13, 1951. Class 12.

555,569. Safety Razors and Safety Razor Blades. Tell William Thunberg, trading as Svenska Rakbladsfabriken, T. Thunberg, Grastorp, Sweden.
Filed Dec. 1, 1948, Serial No. 569,726. Published Dec. 4, 1951. Class 23.

555,570. Sterling Silver Flatware. R. Wallace & Sons Manufacturing Company, Wallingford, Conn.
Filed Dec. 23, 1948, Serial No. 571,063. Published Nov. 6, 1951. Class 28.

555,571. Wood Flooring and Millwork—Namely, Flooring, Trim, Mouldings, and Treads. Miller Brothers Company, Johnson City, Tenn.
Filed Jan. 17, 1949, Serial No. 572,315. Published Nov. 27, 1951. Class 12.

555,572. Insulated Jugs. Knapp-Monarch Company, doing business as Kwikway Co., St. Louis, Mo.
Filed Jan. 15, 1949, Serial No. 572,347. Published Dec. 11, 1951. Class 2.

555,573. Adhesive Cement for Foundry Apparatus (Cementing Rubber and Plastics to Iron). Eastern Clay Products, Inc., Jackson, Ohio, assignor to International Minerals & Chemical Corporation, Chicago, Ill.
Filed Jan. 28, 1949, Serial No. 572,955. Published Nov. 13, 1951. Class 5.

555,574. Clarinets, and Mouthpieces Therefor; Stringed and Fretted Instruments, and Strings, Bridges, and Picks Therefor. Jules M. Sahlein, doing business as J. M. Sahlein Music Company, San Francisco, Calif.
Filed Jan. 28, 1949, Serial No. 573,002. Published Dec. 18, 1951. Class 36.

555,575. Accordions; Stringed and Fretted Instruments, and Strings, Bridges, and Picks Therefor. Jules M. Sahlein, doing business as J. M. Sahlein Music Company, San Francisco, Calif.
Filed Jan. 28, 1949, Serial No. 573,004. Published Dec. 11, 1951. Class 36.

555,576. Road Scrapers, Rippers, Snow Plows, Earth Plows, Pumps, Cranes, Land Levelers, Hydraulic Cylinders, and Hydraulic Power Control Units Consisting of a Pump, Valve, and Supply Tank. Atlas Scraper and Engineering Co., Bell, Calif.
Filed Feb. 14, 1949, Serial No. 573,823. Published Dec. 4, 1951. Class 23.

555,577. Jewelry—Namely, Sterling Silver, Etc. Owen D. Edwards, doing business under the firm name and style of Don Edwards Jewelry, Fresno, Calif.
Filed Feb. 23, 1949, Serial No. 574,352. Published Nov. 6, 1951. Class 28.

555,578. Mixture of Asphalt, Crushed Mineral Aggregate, and Additive Used as Road Surfacing Material. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed Mar. 11, 1949, Serial No. 575,280. Published Nov. 27, 1951. Class 12.

555,579. Photographic Apparatus—Namely, Cameras, Exposure Meters, Shutters, and Parts Thereof. Kinax, S. A. R. L., Montreuil-Sous-Bois, Seine, France.
Filed Apr. 1, 1949, Serial No. 576,497. Published Nov. 13, 1951. Class 26.

555,580. Merchandising Envelopes. Tension Envelope Corporation, Kansas City, Mo.
Filed Apr. 6, 1949, Serial No. 576,724. Published Dec. 11, 1951. Class 2.

555,581. Fabrics of Silk, Wool, Cotton, Synthetics, and Mixtures Thereof. Harry Goldinger Textile Corporation, Los Angeles, Calif.
Filed Apr. 16, 1949, Serial No. 577,265. Published Dec. 18, 1951. Class 42.

555,582. Lenses for Eyeglasses, Goggles, and Spectacles and Eyeglass, Goggle, and Spectacle Frames and Parts Therefor of Metal, Shell, and Various Plastic Compositions. American Zyloptic Co., Inc., New York, N. Y.
Filed May 3, 1949, Serial No. 578,126. Published Nov. 13, 1951. Class 26.

555,583. Percussion Musical Instruments, Parts Thereof, and Accessories Therefor, Etc. The Premier Drum Company, Limited, London and South Wigston, Leicester, England.
Filed May 10, 1949, Serial No. 578,519. Published Apr. 25, 1950. Class 36.

555,584. Tobacco Pouches. Beattie Jet Products, Inc., New York, N. Y.
Filed May 11, 1949, Serial No. 578,562. Published Dec. 4, 1951. Class 8.

555,585. Sets of Carpenters' Tools Sold as a Unit, Etc. Grey Iron Casting Company, Mount Joy, Pa.
Filed June 1, 1949, Serial No. 579,819. Published Dec. 4, 1951. Class 23.

555,586. Bookbinding Adhesive Paste or Glue. American Adhesive Manufacturing Co., Inc., Brooklyn, N. Y.
Filed June 9, 1949, Serial No. 580,173. Published Nov. 13, 1951. Class 5.

555,587. Series of Motion Picture Films and Slide Films Containing Educational Matter and Sound Recordings Relating Thereto and Sold With the Films, the Films Being Adapted for Use With or Independently of the Related Sound Recordings. Opti-Phonetics, Inc., Tuckahoe, N. Y.
Filed July 25, 1949, Serial No. 582,494. Published Nov. 13, 1951. Class 26.

555,588. Preservative Treated Wood and Wood Products—Namely, Rough Lumber, Dressed Lumber, Wood Timbers, Fence Posts, Poles, and Prefabricated Wooden Trusses. T. R. Miller Mill Company, Inc., Brewton, Ala.
Filed Aug. 2, 1949, Serial No. 582,847. Published Aug. 28, 1951. Class 12.

555,589. Parcel Holder for an Automotive Vehicle Consisting of a Strap Attachable to the Base of the Vehicle Seat. Macfee Manufacturing Company, Elgin, Ill.
Filed Sept. 17, 1949, Serial No. 584,989. Published Dec. 4, 1951. Class 19.

555,590. Wallboard. Stimson Lumber Company, Forest Grove, Oreg.
Filed Sept. 26, 1949, Serial No. 585,349. Published Nov. 27, 1951. Class 12.

555,591. Cylinder Bore Roughing and Finishing Tools and Parts Therefor. Berd L. Johnson, doing business as Circle-Y Tool Co., Freeport, Ill.
Filed Oct. 13, 1949, Serial No. 586,248. Published Oct. 16, 1951. Class 23.

555,592. Power Screw Drivers and Gears Stamped From Sheet Metal Stock. Illinois Tool Works, Chicago, Ill.
Filed Oct. 18, 1949, Serial No. 586,486. Published Nov. 27, 1951. Class 23.

555,593. Manually-Operated Sprayers for Use With Liquid Insecticides and Fungicides. H. D. Hudson Manufacturing Company, Chicago, Ill.
Filed Oct. 26, 1949, Serial No. 583,858. Published Dec. 4, 1951. Class 23.

555,594. Piano Tone-Producing Units. Everett Piano Company, South Haven, Mich.
Filed Oct. 28, 1949, Serial No. 586,966. Published Dec. 11, 1951. Class 36.

555,595. Sintered Carbide Lathe Tools for Turning, Boring, Reaming, Facing, Drilling, Chamfering, Cutting Off; Sintered Carbide Milling Cutter Blades, End Mills, Solid Cutters; and Sintered Carbide Tools for Planers and Shapers. Firth Sterling Steel & Carbide Corporation, McKeesport, Pa.
Filed Nov. 26, 1948, Serial No. 588,370. Published Nov. 20, 1951. Class 23.

555,596. Pharmaceutical Preparation Used for the Etiological Treatment of Infections Caused by the Shigella, Salmonella and Escherichia-Coli Germs. Cia. Johnson & Johnson do Brasil, Sao Paulo, Brazil.
Filed Dec. 1, 1949, Serial No. 588,632. Published Nov. 6, 1951. Class 18.

555,597. Closet and Wardrobe Storage Accessories—Namely, Garment Bags, Utility Trays and Boxes for Use in Storing Diverse Articles as Linen, Clothing, and Dress Accessories. Jayhawk Manufacturing Co., Inc., New York, N. Y.
Filed Dec. 2, 1949, Serial No. 588,841. Published Dec. 11, 1951. Class 2.

555,598. Flexible Plastic Bag. Cadillac Products Inc., Ferndale, Mich.
Filed Dec. 23, 1949, Serial No. 589,826. Published Dec. 18, 1951. Class 2.

555,599. Stainless Steel Weights Used With Balances and Weighing Scales. The Torsion Balance Company, Clifton, N. J.
Filed Jan. 4, 1950, Serial No. 590,479. Published Nov. 13, 1951. Class 26.

555,600. Light Weight Aggregate for Concrete, Clay, and Other Plastic Materials for Construction Purposes. Sintering Machinery Corporation, Netcong, N. J.
Filed Jan. 14, 1950, Serial No. 590,917. Published Nov. 13, 1951. Class 12.

555,601. Sintered Carbide Lathe Tools for Turning, Boring, Reaming, Facing, Drilling, Chamfering, Cutting Off; Sintered Carbide Milling Cutter Blades, End Mills, Solid Cutters; and Sintered Carbide Tools for Planers and Shapers. Firth Sterling Steel & Carbide Corporation, McKeesport, Pa.
Filed Jan. 25, 1950, Serial No. 591,412. Published Nov. 20, 1951. Class 23.

555,602. Desiccating Preparation for Refrigerating Systems. Herman Meyer, doing business as Herman Meyer Drug Co., Richmond Hill, N. Y.
Filed Feb. 27, 1950, Serial No. 593,134. Published Dec. 4, 1951. Class 6.

555,603. Steel in the Form of Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Mar. 4, 1950, Serial No. 593,396. Published Dec. 18, 1951. Class 14.

555,604. Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes. The Carpenter Steel Company, Reading, Pa.
Filed Mar. 4, 1950, Serial No. 593,397. Published Dec. 18, 1951. Class 14.

555,605. Molding Powder Containing Cellulose Derivatives (Specifically Ethyl Cellulose and Cellulose Acetate). Hercules Powder Company, Wilmington, Del.
Filed Mar. 14, 1950, Serial No. 593,923. Published Nov. 13, 1951. Class 1.

555,606. Wood Flooring of the Composite and Flexible Board Type. Woodcraft Industries Incorporated, Chicago, Ill.
Filed Mar. 14, 1950, Serial No. 593,948. Published Nov. 6, 1951. Class 12.

555,607. Marking Ruler. Evans & Co., Newark, N. J.
Filed Mar. 18, 1950, Serial No. 594,204. Published Nov. 13, 1951. Class 26.

555,608. Knitted and Woven Fabrics in the Piece Made of Wool Alone or in Combination With Silk, Rayon, Cotton, and Protein Fibers. Draper Brothers Company, Canton, Mass.
Filed Aug. 2, 1950, Serial No. 601,606. Published Dec. 18, 1951. Class 42.

555,609. Chemical Compositions—Namely, Compounds and Preparations Having General Use as Flavors and as Imitation Flavors. Dodge & Olcott, Inc., New York, N. Y.
Filed Mar. 25, 1950, Serial No. 594,624. Published Dec. 4, 1951. Class 6.

555,610. Chemical Compositions—Namely, Compounds and Preparations Having General Use as Flavors and as Imitation Flavors. Dodge & Olcott, Inc., New York, N. Y.
Filed Mar. 25, 1950, Serial No. 594,626. Published Dec. 4, 1951. Class 6.

555,611. Chemical Compositions—Namely, Compounds and Preparations Having General Use as Flavors and as Imitation Flavors. Dodge & Olcott, Inc., New York, N. Y.
Filed Mar. 25, 1950, Serial No. 594,627. Published Dec. 4, 1951. Class 6.

555,612. Chemical Preparation—Namely, Mono Sodium Glutamate, Having the Effect of Enhancing and Developing Existing Flavors in Foods and Beverages. Dodge & Olcott, Inc., New York, N. Y.
Filed Mar. 25, 1950, Serial No. 594,629. Published Dec. 18, 1951. Class 3.

555,613. Chemical Compositions—Namely, Compounds and Preparations Having General Use as Flavors and as Imitation Flavors. Dodge & Olcott, Inc., New York, N. Y.
Filed Mar. 25, 1950, Serial No. 594,631. Published Dec. 4, 1951. Class 6.

555,614. Men's, Women's, and Boys' Hunting Garments and Outer Wear—Namely, Coats, Jackets, Pants, and Wool Shirts. Jac-Sher Woolen Co., Minneapolis, Minn.
Filed Mar. 30, 1950, Serial No. 594,903. Published Nov. 27, 1951. Class 39.

555,615. Liquid Belt Dressing. A. W. Chesterton Company, Everett, Mass.
Filed Apr. 13, 1950, Serial No. 595,655. Published Dec. 4, 1951. Class 6.

555,616. Hosiery—Namely, Stockings, Half-Stockings, Socks, Half-Socks, Anklets, Garters, Under-Stockings, and Stocking Protectors for Men, Women, and Children. Etablissements Dupré, Romilly-sur-Seine, France.
Filed May 3, 1950, Serial No. 596,785. Published Nov. 27, 1951. Class 39.

555,617. Cotton Waste for Use as a Cleaning or Wiping Material, and Also for Use as Filling or Batting for Furniture Upholstery, Mattresses, Bedding, and Automobile Seats. Green Textile Associates, Incorporated, Boston, Mass.
Filed May 5, 1950, Serial No. 596,914. Published Dec. 11, 1951. Class 1.

555,618. Textile Fabrics in the Piece Made of Synthetic Fibers. Burlington Mills Corporation, Greensboro, N. C.
Filed May 9, 1950, Serial No. 597,125. Published Dec. 18, 1951. Class 42.

555,619. Hosiery—Namely, Half-Hose, Three-Quarter Hose, Stockings, Etc. Towles Limited, Loughborough, England.
Filed May 10, 1950, Serial No. 597,241. Published Nov. 27, 1951. Class 39.

555,620. Cigarette Container and Dispenser. The Le-Shore Corporation, Long Island City, N. Y.
Filed May 13, 1950, Serial No. 597,402. Published Dec. 4, 1951. Class 8.

555,621. Cast Plastic Costume Jewelry. Mrs. Anna Mae Cole, Yachats, Oreg.
Filed May 24, 1950, Serial No. 598,005. Published Nov. 6, 1951. Class 28.

555,622. Disc Grooved Phonograph Records. Dot Records, Incorporated, doing business as Dot Recording Co., Gallatin, Tenn.
Filed June 5, 1950, Serial No. 598,578. Published Dec. 11, 1951. Class 36.

555,623. Elasticized Fabric Sanitary Garments—Namely, Sanitary Panties. I. B. Kleinert Rubber Company, New York, N. Y.
Filed June 6, 1950, Serial No. 598,657. Published Nov. 6, 1951. Class 44.

555,624. Two-Compartment Vials Adapted to Contain Separately a Therapeutic Substance and a Solvent for Ultimate Admixture in Preparation for Parenteral Use. The Compule Corporation, Rutherford, N. J.
Filed June 10, 1950, Serial No. 598,890. Published Nov. 6, 1951. Class 44.

555,625. Cooler and Dispenser for Dispensing Carbonated Beverages. Orville F. Evert, San Francisco, Calif.
Filed June 12, 1950, Serial No. 598,947. Published Dec. 4, 1951. Class 31.

555,626. Wheat Flour. Hayden Flour Mills, Tempe, Ariz.
Filed Apr. 2, 1951, Serial No. 599,050. Published Dec. 11, 1951. Class 46.

555,627. Steel Reinforcing Bars for Use in Concrete Construction. The Pollak Steel Company, Cincinnati, Ohio.
Filed June 23, 1950, Serial No. 599,652. Published Nov. 6, 1951. Class 12.

555,628. Self-Curing Denture Acrylic. The Motloid Company, Chicago, Ill.
Filed June 27, 1950, Serial No. 599,838. Published Nov. 6, 1951. Class 44.

555,629. Home Refrigerators, Home Freezers, and Parts Thereof. Philco Corporation, Philadelphia, Pa.
Filed June 30, 1950, Serial No. 600,075. Published Dec. 4, 1951. Class 31.

555,630. Fused Aluminum Oxide Grains Used To Provide a Non-Slip Surface When Trowelled Into the Top of Concrete Sidewalks, Ramps, Steps, Floors, and Other Similar Tread Surfaces. American Abrasive Metals Company, Irvington, N. J.
Filed July 1, 1950, Serial No. 600,112. Published Nov. 6, 1951. Class 12.

555,631. Resinous Material Used for Cementing and Restorative Work in Dentistry. Cosmos Dental Products, Inc., New York, N. Y.
Filed July 1, 1950, Serial No. 600,121. Published Dec. 18, 1951. Class 44.

555,632. Appliances for the Treatment of Bone Fractures—Namely, Saws and Saw Sets, Etc. Zimmer Manufacturing Company, Warsaw, Ind.
Filed July 12, 1950, Serial No. 600,560. Published Oct. 30, 1951. Class 44.

555,633. Insecticides. West Disinfecting Company, Long Island City, N. Y.
Filed July 15, 1950, Serial No. 600,746. Published Dec. 4, 1951. Class 6.

555,634. Doors for Luggage Compartments of Airplanes. Metropolitan Airparts, Van Nuys, Calif., assignor to Ryan Aeronautical Corporation, San Diego, Calif.
Filed July 21, 1950, Serial No. 601,060. Published Dec. 4, 1951. Class 19.

555,635. Parasiticides. Food Machinery and Chemical Corporation, San Jose, Calif., and Middleport, N. Y.
Filed July 25, 1950, Serial No. 601,206. Published Dec. 4, 1951. Class 6.

555,636. Vitrified Dishware. Shenango Pottery Company, New Castle, Pa., assignor to Peoples First National Bank and Trust Company, Pittsburgh, Pa., a national banking association.
Filed Aug. 1, 1950, Serial No. 601,573. Published Nov. 6, 1951. Class 30.

555,637. Vitrified Dishware. Shenango Pottery Company, New Castle, Pa., assignor to Peoples First National Bank and Trust Company, Pittsburgh, Pa., a national banking association.
Filed Aug. 1, 1950, Serial No. 601,576. Published Nov. 6, 1951. Class 30.

555,638. Aluminum Moldings and Trims Used in Finishing Linoleum and Other Structural and Ornamental Surfaces. The B & T Metals Company, Columbus, Ohio.
Filed Aug. 4, 1950, Serial No. 601,708. Published Nov. 6, 1951. Class 12.

555,639. Wool Fabrics, and Fabrics Made of a Blend of Wool and/or Hair Fibers, Both Fabrics Having a Nylon Backing. Draper Brothers Company, Canton, Mass.
Filed Aug. 8, 1950, Serial No. 601,888. Published Dec. 18, 1951. Class 42.

555,640. Window Glass, Plate Glass, Laminated Glass, Etc. Libbey-Owens-Ford Glass Company, Toledo, Ohio.
Filed Aug. 10, 1950, Serial No. 602,036. Published Nov. 6, 1951. Class 33.

555,641. Window Glass, Plate Glass, Laminated Glass, Etc. Libbey-Owens-Ford Glass Company, Toledo, Ohio.
Filed Aug. 10, 1950, Serial No. 602,037. Published Nov. 6, 1951. Class 33.

555,642. Telescoping Cardboard Cylinders With Metal End Caps for Shipping and Storage of Web Material, Such as Plastic Film. Spenzer Container Corporation, Greenville, Pa.
Filed Aug. 14, 1950, Serial No. 602,172. Published Dec. 18, 1951. Class 2.

555,643. Hair Coloring Pomade. William H. Joyce, Hollis, N. Y.
Filed Aug. 18, 1950, Serial No. 602,405. Published Nov. 6, 1951. Class 51.

555,644. Tumbling Toy in the Nature of a Clown. Emkay Novelty Corp., Chicago, Ill.
Filed Aug. 23, 1950, Serial No. 602,606. Published Dec. 11, 1951. Class 22.

555,645. Synthetic Plastic Monofilament Bristles for Brushes. Empire Brush Works, Inc., Port Chester, N. Y., now by change of name Empire Brushes, Inc., a corporation of New York.
Filed Aug. 28, 1950, Serial No. 602,828. Published Nov. 27, 1951. Class 1.

555,646. Fire Extinguisher Grenades, and Kits Containing Chemical Preparations for Extinguishing Fires. Red Comet Incorporated, Littleton, Colo.
Filed Aug. 28, 1950, Serial No. 602,855. Published Dec. 4, 1951. Class 6.

555,647. Clocks. Kalex Corporation, New York, N. Y.
Filed Sept. 8, 1950, Serial No. 603,299. Published Nov. 6, 1951. Class 27.

555,648. Children's Toys Such as Dolls, Puppets, Disguise-Kits, and Toy Horns. Jay V. Zimmerman Company, St. Louis, Mo.
Filed Sept. 8, 1950, Serial No. 603,325. Published Dec. 11, 1951. Class 22.

555,649. Lenses for Spectacles. Filotecnica Salmoiraghi Societa per Azioni, Milan, Italy.
Filed Sept. 12, 1950, Serial No. 603,620. Published Nov. 6, 1951. Class 26.

555,650. Tractor-Truck-Trailer Hose and Line Protector—Namely, a Steel Tube Attached to a Flexible Coil Spring Which Is Mounted to a Cross Member of the Gas Tank Saddle Behind the Cab for the Prevention of Injury to the Hose Lines. Franklin Industries, Franklin, Ind.
Filed Sept. 30, 1950, Serial No. 604,259. Published Dec. 4, 1951. Class 19.

555,651. Plastic Liners for Lunch Boxes. Sal-San Corp., Decatur, Ill.
Filed Sept. 30, 1950, Serial No. 604,266. Published Dec. 11, 1951. Class 2.

555,652. Jacket Water Coolers, Lubricating Oil Coolers and Gas Coolers. Ross Heater & Manufacturing Company, Inc., Buffalo, N. Y.
Filed Oct. 3, 1950, Serial No. 604,390. Published Nov. 6, 1951. Class 31.

555,653. Jacket Water Coolers, Lubricating Oil Coolers, and Gas Coolers. Ross Heater & Manufacturing Company, Inc., Buffalo, N. Y.
Filed Oct. 3, 1950, Serial No. 604,392. Published Nov. 6, 1951. Class 31.

555,654. Dyestuffs. Ciba Limited, Basel, Switzerland.
Filed Oct. 12, 1950, Serial No. 604,765. Published Dec. 18, 1951. Class 6.

555,655. Ice-Cooled or Electrically Operated Water Coolers. Great Bear Spring Company, New York, N. Y.
Filed Oct. 17, 1950, Serial No. 605,029. Published Nov. 13, 1951. Class 31.

555,656. Men's, Women's, and Children's Coats. The Duffer Company, Inc., Boston, Mass.
Filed Oct. 20, 1950, Serial No. 605,204. Published Dec. 18, 1951. Class 39.

555,657. Musical Instruments — Namely, Accordions, Guitars, Violins, Clarinets, Cornets, Trumpets, Trombones, and French Horns. Buegeleisen & Jacobson, Inc., New York, N. Y.
Filed Nov. 1, 1950, Serial No. 605,717. Published Dec. 18, 1951. Class 36.

555,658. Musical Instruments—Namely, Cornets, Trumpets, Clarinets, Flutes, and Piccolos. Buegeleisen & Jacobson, Inc., New York, N. Y.
Filed Nov. 1, 1950, Serial No. 605,718. Published Dec. 18, 1951. Class 36.

555,659. Weighing Scales. Invalift, Inc., Seattle, Wash.
Filed Nov. 3, 1950, Serial No. 605,858. Published Nov. 13, 1951. Class 26.

555,660. Refractory Concrete. E. J. Lavino and Company, Philadelphia, Pa.
Filed Nov. 9, 1950, Serial No. 606,148. Published Nov. 6, 1951. Class 12.

555,661. Women's Hosiery. Markline Hosiery Company Inc., New York, N. Y.
Filed Nov. 9, 1950, Serial No. 606,156. Published Dec. 4, 1951. Class 39.

555,662. Lenses for Face Protecting Helmets and Hand Shield Vision Slits. Willson Products, Inc., Reading, Pa.
Filed Nov. 10, 1950, Serial No. 606,248. Published Nov. 6, 1951. Class 26.

555,663. Disposable Filter Cigarette Holders. Elmira Filter Tip Corporation, Elmira, N. Y.
Filed Nov. 13, 1950, Serial No. 606,282. Published Nov. 27, 1951. Class 8.

555,664. Grooved Phonograph Records for Instructing Students in the Art of Dancing. Louis Silvers, doing business as Stepping Tones, Los Angeles, Calif., assignee of Stepping Tones, Inc.
Filed Nov. 13, 1950, Serial No. 606,341. Published Dec. 18, 1951. Class 36.

555,665. Rasps, Files, Rotary Files, and Countersinks. Grobet File Company of America, Inc., New York, N. Y.
Filed Nov. 17, 1950, Serial No. 606,527. Published Oct. 16, 1951. Class 23.

555,666. Pocket Knives and Place Settings Consisting of Knife, Fork, and Spoon. William Boyd, Beverly Hills, Calif.
Filed Nov. 20, 1950, Serial No. 606,648. Published Oct. 16, 1951. Class 23.

555,667. Tall Oil Pitch, Cottonseed Pitch, Palm Pitch, and Marine Pitch. Armour and Company, Chicago, Ill.
Filed Nov. 21, 1950, Serial No. 606,690. Published Nov. 27, 1951. Class 1.

555,668. Lady's and Girl's Hosiery. Herman E. Crawford, Kernersville, N. C.
Filed Nov. 20, 1950, Serial No. 607,072. Published Nov. 27, 1951. Class 39.

555,669. Preparations for Killing Weeds and Destroying Vermin, Insecticides, Fungicides, Seed Disinfectants, and Seed Preserving Substances. Geigy Company, Inc., New York, N. Y.
Filed Dec. 7, 1950, Serial No. 607,381. Published Dec. 4, 1951. Class 6.

555,670. Sprayers for Producing Insecticidal Aerosol. Bridgeport Brass Company, Bridgeport, Conn.
Filed Dec. 21, 1950, Serial No. 607,927. Published Nov. 20, 1951. Class 23.

555,671. Transparent Plastic Film-Like Sheeting Used for Throat Irritations, Hot Packs, Wet Dressings, Pillow Cases, Oxygen Tent Canopies, and Aprons. Will Ross, Inc., Milwaukee, Wis.
Filed Dec. 26, 1950, Serial No. 608,085. Published Dec. 18, 1951. Class 1.

555,672. Chewing Gum Containing Chlorophyll. Crawford Gum Company, Inc., Long Island City, N. Y., assignor to American Chicle Company, Long Island City, N. Y., a corporation of New Jersey.
Filed Dec. 28, 1950, Serial No. 608,149. Published Dec. 11, 1951. Class 46.

555,673. Cleaning Powder for Water-Closet Bowls and Automobile Radiators. The Hygienic Products Company, Canton, Ohio.
Filed Dec. 30, 1950, Serial No. 608,247. Published Nov. 13, 1951. Class 52.

555,674. Rugs and Carpets Made of Wool, Cotton, Rayon, Nylon, Synthetic Fibers, and Mixtures Thereof. Hudson Valley Rugs Company, New York, N. Y.
Filed Jan. 4, 1951, Serial No. 608,354. Published Dec. 18, 1951. Class 42.

555,675. Panels Completely Assembled With Indicating or Recording Gauges and Also Handles for Controllers for Industrial Processes. Minneapolis-Honeywell Regulator Company, Minneapolis, Minn.
Filed Jan. 5, 1951, Serial No. 608,426. Published Nov. 6, 1951. Class 26.

555,676. Nursing Bottle Holders. Fashioncraft Products, Brooklyn, N. Y.
Filed Jan. 15, 1951, Serial No. 608,789. Published Nov. 6, 1951. Class 44.

555,677. Peeled, Seedless Grapes, in Sugar Syrup, Artificially Flavored, for Use in the Manufacture of Ice Cream. Limpert Bros., Inc., New York, N. Y., and Vineland, N. J.
Filed Jan. 16, 1951, Serial No. 608,822. Published Dec. 18, 1951. Class 46.

555,678. Extruded and Molded Sheets, Slabs, Rods, Tubes and Special Shapes Made From Fluorocarbon Resins. Resistoflex Corporation, Belleville, N. J.
Filed Jan. 20, 1951, Serial No. 609,054. Published Nov. 6, 1951. Class 1.

555,679. Dress Forms. Eva Ronell, New York, N. Y.
Filed Jan. 20, 1951, Serial No. 609,055. Published Nov. 6, 1951. Class 50.

555,680. Chrome Ore for Furnace Maintenance. E. J. Lavino and Company, Philadelphia, Pa.
Filed Jan. 22, 1951, Serial No. 609,091. Published Nov. 6, 1951. Class 1.

555,681. Plastic Garment Storage Bags. Clearview Products, Inc., New York, N. Y.
Filed Jan. 30, 1951, Serial No. 609,395. Published Dec. 18, 1951. Class 2.

555,682. Vitamin Tonic. Dr. Geo. S. Long Corporation, Pineville, La.
Filed Jan. 30, 1951, Serial No. 609,408. Published Nov. 13, 1951. Class 18.

555,683. Fabrics Made of Cotton, Rayon, Nylon, Silk and/or Combinations of the Same. Farrington Texol Corporation, Walpole, Mass.
Filed Feb. 2, 1951, Serial No. 609,545. Published Dec. 18, 1951. Class 42.

555,684. Apparatus for Producing Fire-Extinguishing Foam. National Foam System, Inc., West Chester, Pa.
Filed Feb. 6, 1951, Serial No. 609,691. Published Nov. 20, 1951. Class 23.

555,685. Household Scales. Injecta A. G., Teufenthal, Canton of Aargau, Switzerland.
Filed Feb. 8, 1951, Serial No. 609,800. Published Nov. 20, 1951. Class 26.

555,686. Sanitary Napkins. U. S. Sanitary Specialties Corporation, Chicago, Ill.
Filed Feb. 9, 1951, Serial No. 609,892. Published Nov. 6, 1951. Class 44.

555,687. Hydrated Lime for Building Purposes. The Woodville Lime Products Company, Toledo, Ohio.
Filed Feb. 12, 1951, Serial No. 609,994. Published Nov. 13, 1951. Class 12.

555,688. Seed Grain, Grass Seed, and Seed Potatoes. Maine Potato Growers, Inc., Presque Isle, Maine.
Filed Feb. 21, 1951, Serial No. 610,370. Published No 6, 1951. Class 1.

555,689. Anticonvulsant Preparation. Parke, Davis & Company, Detroit, Mich.
Filed Feb. 23, 1951, Serial No. 610,456. Published Nov. 6, 1951. Class 18.

555,690. Synthetic Crude Rubber. Heresite & Chemical Company, Manitowoc, Wis.
Filed Mar. 6, 1951, Serial No. 610,902. Published Nov. 20, 1951. Class 1.

555,691. Cans for Discharging Contents Under Pressure. Crown Can Company, Philadelphia, Pa.
Filed Mar. 7, 1951, Serial No. 610,955. Published Dec. 11, 1951. Class 2.

555,692. Air-Feed Hammer-Drills. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Mar. 7, 1951, Serial No. 610,979. Published Dec. 11, 1951. Class 23.

555,693. Preparation Used To Increase the Appetite, Assist Assimilation and Raise the Hemoglobin Content of the Blood. Chicago Pharmacal Company, Chicago, Ill.
Filed Mar. 8, 1951, Serial No. 611,016. Published Nov. 6, 1951. Class 18.

555,694. Ladies' Hosiery. Acclaim Hosiery Mills, Inc., High Point, N. C.
Filed Mar. 14, 1951, Serial No. 611,252. Published Dec. 4, 1951. Class 39.

555,695. Medicinal Hormone Preparation. Laboratoires Francais de Chimiotherapie, Paris, France.
Filed Mar. 14, 1951, Serial No. 611,285. Published Nov. 6, 1951. Class 18.

555,696. Pipe Beveling Machines. Mary Catherine Harter, doing business as H & M Pipe Beveling Machine Co., Tulsa, Okla.
Filed Mar. 15, 1951, Serial No. 611,358. Published Nov. 6, 1951. Class 23.

555,697. Ground or Pulverized Limestone for Animal and Poultry Feed Ingredient. Limestone Products Corporation of America, Newton, N. J.
Filed Mar. 16, 1951, Serial No. 611,441. Published Dec. 18, 1951. Class 1.

555,698. Stainless Steel Flatware. Imperial International Corp., New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,701. Published Nov. 20, 1951. Class 23.

555,699. Liquid Fuel Filters and Parts Thereof. Carter Carburetor Corporation, St. Louis, Mo.
Filed Mar. 28, 1951, Serial No. 611,890. Published Nov. 20, 1951. Class 31.

555,700. Cigarette Paper. Ecusta Paper Corporation, Pisgah Forest, N. C.
Filed Mar. 28, 1951, Serial No. 611,894. Published Nov. 20, 1951. Class 8.

555,701. Deodorizing Chemical Compositions. Walt Phillips, doing business as Phillips Scientific Laboratories, North Arlington, N. J.
Filed Mar. 28, 1951, Serial No. 611,914. Published Dec. 18, 1951. Class 6.

555,702. Carpenters' Framing Instrument, Used in Measuring and Marking Building Units During Construction. Kirtley J. Lintner, Shawnee, Kans.
Filed Mar. 30, 1951, Serial No. 612,020. Published Nov. 13, 1951. Class 26.

555,703. Grass Seed. William G. Scarlett, doing business as Wm. G. Scarlett & Co., Baltimore, Md.
Filed Mar. 30, 1951, Serial No. 612,035. Published Nov. 27, 1951. Class 1.

555,704. Lawn Seed. William G. Scarlett, doing business as Wm. G. Scarlett & Co., Baltimore, Md.
Filed Mar. 30, 1951, Serial No. 612,036. Published Nov. 27, 1951. Class 1.

555,705. Smoking Pipes and Cigar and Cigarette Holders. Rogers Imports Inc., New York, N. Y.
Filed Apr. 2, 1951, Serial No. 612,137. Published Dec. 11, 1951. Class 8.

555,706. Removable Automobile Seat Covers. Harrison Wholesale Company, Chicago, Ill.
Filed Apr. 4, 1951, Serial No. 612,203. Published Nov. 27, 1951. Class 19.

555,707. Wheelbarrows. Buch Manufacturing Company, Elizabethtown, Pa.
Filed Apr. 6, 1951, Serial No. 612,301. Published Nov. 27, 1951. Class 19.

555,708. Wheelbarrows. Buch Manufacturing Company, Elizabethtown, Pa.
Filed Apr. 6, 1951, Serial No. 612,304. Published Nov. 27, 1951. Class 19.

555,709. Wheelbarrows. Buch Manufacturing Company, Elizabethtown, Pa.
Filed Apr. 6, 1951, Serial No. 612,305. Published Nov. 27, 1951. Class 19.

555,710. Automobiles. James M. Moran, doing business as Jetliner Sales Company, Chicago, Ill.
Filed Apr. 6, 1951, Serial No. 612,342. Published Nov. 27, 1951. Class 19.

555,711. Safety Razor Blades. Vulcan Safety Razor Corp., Maplewood, N. J.
Filed Apr. 9, 1951, Serial No. 612,426. Published Dec. 4, 1951. Class 23.

555,712. Plate and Frame Filtering Apparatus for Filtering Pharmaceutical, Medicinal, and Other Liquids and Solutions. F. R. Hormann & Co., Inc., Newark, N. J.
Filed Apr. 13, 1951, Serial No. 612,615. Published Nov. 27, 1951. Class 31.

555,713. Agricultural Insecticide. William Cooper & Nephews, Incorporated, Chicago, Ill.
Filed Apr. 14, 1951, Serial No. 612,651. Published Dec. 4, 1951. Class 6.

555,714. Insulated Wire and Cables. The Kerite Company, Seymour, Conn., and New York, N. Y.
Filed May 3, 1951, Serial No. 613,462. Published Dec. 11, 1951. Class 21.

555,715. Paper Bags. Stocker Manufacturing Company, Netcong, N. J.
Filed May 4, 1951, Serial No. 613,532. Published Dec. 11, 1951. Class 2.

555,716. Electric Refrigerators and Home Freezers. Avco Manufacturing Corporation, Cincinnati, Ohio.
Filed May 17, 1951, Serial No. 613,964. Published Nov. 6, 1951. Class 31.

555,717. Hat Boxes of the Type Used for the Shipment of Hats, and of the Type Used for the Storage and Preservation of Hats in the Home and Elsewhere. Edw. P. Cunningham, Inc., New Rochelle, N. Y.
Filed May 18, 1951, Serial No. 614,042. Published Dec. 18, 1951. Class 2.

555,718. Outboard Motors. Spiegel, Inc., Chicago, Ill.
Filed May 22, 1951, Serial No. 614,222. Published Dec. 11, 1951. Class 23.

555,719. Refrigerators. Affiliated Retailers, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,682. Published Nov. 20, 1951. Class 31.

555,720. Refrigerators. Plymouth Wholesale Dry Goods Corporation, New York, N. Y.
Filed June 14, 1951, Serial No. 615,190. Published Nov. 20, 1951. Class 31.

555,721. Electric Switch Plates. James D. McDonald, doing business under the fictitious name and style of McDonald Manufacturing Company, Los Angeles, Calif.
Filed June 25, 1951, Serial No. 615,651. Published Dec. 4, 1951. Class 21.

555,722. Electromagnetic Fan Drives. Eaton Manufacturing Company, Cleveland, Ohio.
Filed June 26, 1951, Serial No. 615,693. Published Dec. 11, 1951. Class 21.

555,723. Electric Refrigerators. Aldens, Inc., Chicago, Ill.
Filed June 27, 1951, Serial No. 615,741. Published Dec. 4, 1951. Class 31.

555,724. Electrically Operated Phonograph Record Players. Rek-O-Kut Company, Long Island City, N. Y.
Filed June 29, 1951, Serial No. 615,902. Published Dec. 11, 1951. Class 21.

555,725. Toy Rubber Balloons; Changeable Block Game; Toy Molding Sets; Stuffed Dolls. Capitol Records, Inc., Hollywood, Calif.
Filed July 11, 1951, Serial No. 616,310. Published Dec. 11, 1951. Class 22.

555,726. Optical Objectives. American Optical Company, Southbridge, Mass.
Filed July 14, 1951, Serial No. 616,470. Published Nov. 6, 1951. Class 26.

555,727. Woolen Piece Goods. A. D. Juilliard & Co., Inc., New York, N. Y.
Filed July 14, 1951, Serial No. 616,495. Published Dec. 18, 1951. Class 42.

555,728. Bulk Fish Hooks, Snelled Fish Hooks, Fish Lures, and Artificial Flies. Wright & McGill Co., Denver, Colo.
Filed July 16, 1951, Serial No. 616,577. Published Dec. 11, 1951. Class 22.

555,729. Artificial Fishing Lures. Nickel Tackle Company, Jacksonville, Fla.
Filed Aug. 3, 1951, Serial No. 617,309. Published Dec. 11, 1951. Class 22.

555,730. Inflatable Toys—Namely, Aquatic Toys, Animals, Pools, Water Wings, Beach Balls, Rafts, Caricature of Human Figures, and Playhouses. Doughboy Industries, Inc., New Richmond, Wis.
Filed Aug. 9, 1951, Serial No. 617,492. Published Dec. 11, 1951. Class 22.

555,731. Dolls. Ideal Toy Corporation, Hollis, N. Y.
Filed Aug. 9, 1951, Serial No. 617,498. Published Dec. 18, 1951. Class 22.

555,732. Artificial Fish Lure. Charles Garcia & Co., Inc., New York, N. Y.
Filed Aug. 28, 1951, Serial No. 618,160. Published Dec. 11, 1951. Class 22.

555,733. Artificial Fishing Lures. Harry Gusick, Antigo, Wis.
Filed Sept. 11, 1951, Serial No. 618,633. Published Dec. 11, 1951. Class 22.

Service Marks

555,734. Instructing Mechanics and Repairmen in Methods of Overhauling and Repairing, Etc. Perfect Circle Corporation, Hagerstown, Ind.
Filed Oct. 14, 1947, Serial No. 537,821. Published Oct. 16, 1951. Class 107.

555,735. Insurance Brokerage—Namely, the Brokerage of Accident Insurance. Hickey-Mitchell Company, St. Louis, Mo.
Filed Aug. 30, 1948, Serial No. 564,388. Published Dec. 18, 1951. Class 102.

555,736. Real Estate Brokerage and Fire Insurance Brokerage. William H. Lyon, Lexington, Mass.
Filed Feb. 25, 1949, Serial No. 574,522. Published Dec. 18, 1951. Class 102.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

555,737. (Class 16. Paints and Painters' Materials.) Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Original filed, act of 1946, Principal Register, Sept. 4, 1947; amended to application, Supplemental Register, Dec. 22, 1950, Serial No. 533,356.

Tuf-Flor

For Floor Enamel and Floor Varnish.
Claims use since July 15, 1936.

555,738. (Class 16. Paints and Painters' Materials.) Brown Oil & Chemical Corp., New York and Staten Island, N. Y. Original filed, act of 1946, Principal Register, Oct. 21, 1947; amended to application, Supplemental Register, June 23, 1951, Serial No. 538,491.

Oil BROWN Chemicals

The words "Oils" and "Chemicals" are disclaimed.
For Vegetable Oils, Drying Oils, Turpentine, Rosin, and Resin, All Used in Connection With the Manufacture of Paints and Varnishes.
Claims use since Aug. 1, 1947.

555,739. (Class 46. Foods and Ingredients of Foods.) Lorraine H. Wille, doing business as Froy's, Clearwater, Fla. Original filed, act of 1946, Principal Register, May 3, 1948; amended to application, Supplemental Register, Mar. 9, 1951, Serial No. 556,156.

SHO' NUFF PRALINES

"Pralines" is disclaimed. The drawing is lined to indicate yellow, red and black, but no claim is made to the use of any particular colors.
For Pralines.
Claims use since Jan. 20, 1948.

555,740. (Class 37. Paper and Stationery.) McLaurin-Jones Co., Brookfield, Mass. Original filed, act of 1946, Principal Register, May 19, 1948; amended to application, Supplemental Register, Dec. 10, 1951, Serial No. 557,371.

ALL PURPOSE

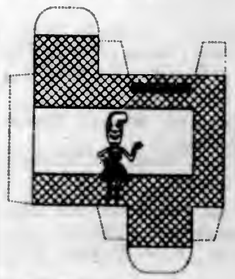
For Decalcomania Paper Comprising Water-Leaf Base Paper With Decalcomania Coating Thereon.
Claims use since Jan. 2, 1947.

555,741. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Morse Bros. Machinery Company, Denver, Colo. Original filed, act of 1946, Principal Register, May 27, 1948; amended to application, Supplemental Register, Apr. 18, 1951, Serial No. 557,945.

"JETAIR"

For Froth Flotation Machines and Replacement Parts Therefor, Said Machines Consisting of Single Cells and Cells in Battery Arrangement, Used in Separation of Minerals From Associated Matter Carried in Liquid Suspension by the Combined Action of Aeration and a Reagent Inducing Flotation of One Constituent Away From the Others.
Claims use since Mar. 29, 1948.

555,742. (Class 21. Electrical Apparatus, Machines, and Supplies.) Sealtight Corporation, Cedar Rapids, Iowa. Original filed, act of 1946, Principal Register, July 14, 1948; amended to application, Supplemental Register, Nov. 29, 1950, Serial No. 561,345.



For Spark Plug Insulators.
Claims use since Jan. 1, 1948.

555,743. (Class 21. Electrical Apparatus, Machines, and Supplies.) Knapp-Monarch Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, July 29, 1948; amended to application, Supplemental Register, July 21, 1951, Serial No. 562,479.

STEEM-R-DRI

For Electric Steam Generating Sadirons.
Claims use since August 1947.

555,744. (Class 2. Receptacles.) Sutherland Paper Company, Kalamazoo, Mich. Original filed, act of 1946, Principal Register, Sept. 10, 1948; amended to application, Supplemental Register, Aug. 13, 1951, Serial No. 564,978

STAYN-LES

For Collapsible Cartons Made of Fiber, Boxboard, or Container Board.
Claims use since Mar. 26, 1948.

555,745. (Class 21. Electrical Apparatus, Machines, and Supplies.) Faries Manufacturing Company, Decatur, Ill. Original filed, act of 1946, Principal Register, Jan. 15, 1949; amended to application, Supplemental Register, Dec. 14, 1951, Serial No. 572,245.

Dial Rite

For Electric Lamps.
Claims use since July 16, 1948.

555,746. (Class 22. Games, Toys, and Sporting Goods.) South Bend Bait Company, South Bend, Ind. Original filed, act of 1946, Principal Register, Feb. 2, 1949; amended to application, Supplemental Register, June 25, 1951, Serial No. 573,211.

SPIN-CAST

For Fishing Reels.
Claims use since Dec. 21, 1948.

555,747. (Class 50. Merchandise Not Otherwise Classified.) Bliss Display Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 5, 1949; amended to application, Supplemental Register, Nov. 23, 1951, Serial No. 576,617.



For Metallic Grill Used To Suspend Merchandise, Manikins, Signs, Etc., in Window and Other Displays.
Claims use since Mar. 15, 1949.

555,748. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) American Machine & Tool Co., Inc., Royersford, Pa. Original filed, act of 1946, Principal Register, May 10, 1949; amended to application, Supplemental Register, Nov. 23, 1951, Serial No. 578,477.

Marcus MP Pollak

For Power Saws and Parts Thereof.
Claims use since Sept. 1, 1946.

555,749. (Class 21. Electrical Apparatus, Machines, and Supplies.) Electro-Technical Industries, Incorporated, Philadelphia, Pa. Original filed, act of 1946, Principal Register, June 13, 1949; amended to application, Supplemental Register, Nov. 1, 1950, Serial No. 580,358.

TELEKIT

For Television Receiving Sets Sold in Knock-Down or Kit Form.
Claims use since Mar. 1, 1947.

555,750. (Class 2. Receptacles.) Carry Cool Container Corporation, Philadelphia, Pa. Original filed, act of 1946, Principal Register, June 24, 1949; amended to application, Supplemental Register, Oct. 31, 1950, Serial No. 580,977.

CARRY COOL CONTAINER

For Portable Insulated Storage Cabinets for Perishables.
Claims use since Feb. 1, 1949.

555,751. (Class 21. Electrical Apparatus, Machines, and Supplies.) Joseph Fleck, New York, N. Y. Original filed, act of 1946, Principal Register, July 23, 1949; amended to application, Supplemental Register, Aug. 25, 1950, Serial No. 582,423.

FLECK

For Electric Broilers.
Claims use since Nov. 14, 1946.

555,752. (Class 39. Clothing.) Industrial Gloves Company, Danville, Ill. Original filed, act of 1946, Principal Register, Sept. 24, 1949; amended to application, Supplemental Register, Dec. 10, 1951, Serial No. 585,284.

WOVEN-CARD

For Hand and Arm Protectors of Flexible Material and of Generally Tubular Form in Which a User's Hand and Forearm Can Be Inserted.
Claims use since Mar. 24, 1949.

555,753. (Class 46. Foods and Ingredients of Foods.) Joseph E. Walker, doing business as Walker and Sons Apiaries, Milford, Mich. Original filed, act of 1946, Principal Register, Oct. 17, 1949; amended to application, Supplemental Register, Aug. 17, 1950, Serial No. 586,442.

Walker's

For Honey.
Claims use since July 15, 1948.

555,754. (Class 6. Chemicals and Chemical Compositions.) Eston Chemicals, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Oct. 24, 1949; amended to application, Supplemental Register, Dec. 4, 1951, Serial No. 586,747.

Charg-A-Can

For Refrigerants.
Claims use since Aug. 15, 1949.

555,755. (Class 39. Clothing.) Auburn Rubber Corporation, Auburn, Ind. Original filed, act of 1946, Principal Register, Oct. 27, 1949; amended to application, Supplemental Register, Jan. 19, 1951, Serial No. 586,905.

DUBL WEAR

For Shoe Soling Consisting of an Inner Layer of Leather and an Outer Layer of Rubber-Like Composition.
Claims use since Mar. 15, 1949.

555,756. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Edwin F. Guth Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, Dec. 28, 1949; amended to application, Supplemental Register, Dec. 8, 1951, Serial No. 590,020.

LEVELITE

For Supporting Channel for Electric Lighting Fixtures.
Claims use since September 1949.

555,757. (Class 22. Games, Toys, and Sporting Goods.) Echelon Company, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Jan. 4, 1950; amended to application, Supplemental Register, Nov. 24, 1951, Serial No. 590,304.

COMIC CUTS

For Cartoon Games Comprising Cartoon Illustrations Which May Be Assembled in Any Desired Order With the Addition of Removable Dialogue by the User.
Claims use since Sept. 9, 1949.

555,758. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) The Cooper Alloy Foundry Co., Hillside, N. J. Original filed, act of 1946, Principal Register, Feb. 2, 1950; amended to application, Supplemental Register, Mar. 15, 1951, Serial No. 591,838.

QUIKUPL

For Threadless Metal Pipe Fittings.
Claims use since January 1950.

555,759. (Class 39. Clothing.) Trau & Loevner Sportswear Co., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 24, 1950; amended to application, Supplemental Register, June 2, 1951, Serial No. 594,598.

For XXX Sir Irreproachable Sportswear
SKILLFULLY DESIGNED WITH YOU IN MIND

For Men's and Boys' Sport Shirts, Dress Shirts, Jackets, Trousers, Raincoats, and Bathing Trunks.
Claims use since Oct. 27, 1949.

555,760. (Class 46. Foods and Ingredients of Foods.) Louis Albert, doing business as Louis Albert & Son Foods Co., Omaha, Nebr. Original filed, act of 1946, Principal Register, Mar. 28, 1950; amended to application, Supplemental Register, June 28, 1951, Serial No. 594,739.



For Food Dressings for Salads, Vegetables and Meats.
Claims use since May 12, 1947.

555,761. (Class 6. Chemicals and Chemical Compositions.) Fidelity Chemical Products Corp., Newark, N. J. Original filed, act of 1946, Principal Register, Apr. 27, 1950; amended to application, Supplemental Register, Dec. 28, 1951, Serial No. 596,404.

DIP-PAK

For Hot Dip Coating for Paper, Metal and Wood.
Claims use since August 1949.

555,762. (Class 9. Explosives, Firearms, Equipments and Projectiles.) Hydro-Carbon Industries, Inc., Bradford, Pa. Original filed, act of 1946, Principal Register, May 2, 1950; amended to application, Supplemental Register, Nov. 28, 1951, Serial No. 596,726.

HYDRO-LITE

For Highway Car Flare Devices.
Claims use since Oct. 31, 1949.

555,763. (Class 52. Detergents and Soaps.) Mae Kennedy, trading and doing business as Kennedy Products Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, May 23, 1950; amended to application, Supplemental Register, Apr. 6, 1951, Serial No. 597,963.

SPOTOUT

For Spotting Composition.
Claims use since Apr. 24, 1948.

555,764. (Class 32. Furniture and Upholstery.) Byrum W. Morehouse, doing business under the assumed business name of Morehouse Glass Company, Portland, Oreg. Original filed, act of 1946, Principal Register, June 12, 1950; amended to application, Supplemental Register, Dec. 26, 1951, Serial No. 598,956.

MIR--O--KLERE

For Wall Mirrors, Hand Mirrors, and Mirrors Used in Connection With Furniture.
Claims use since Mar. 1, 1950.

555,765. (Class 16. Paints and Painters' Materials.) United States Gutta Percha Paint Company, Providence, R. I., now by change of name Barreled Sunlight Paint Company, a corporation of Rhode Island. Original filed, act of 1946, Principal Register, Sept. 20, 1950; amended to application, Supplemental Register, Oct. 26, 1951, Serial No. 603,822.

ROADLITE

For Ready-Mixed Paints.
Claims use since July 21, 1950.

555,766. (Class 46. Foods and Ingredients of Foods.) Merle L. Alexander, Albuquerque, N. Mex. Original filed, act of 1946, Principal Register, Oct. 16, 1950; amended to application, Supplemental Register, Nov. 20, 1951, Serial No. 604,944.

NUT-BURGER

For Sandwiches.
Claims use since Jan. 12, 1950.

555,767. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Black and Decker Manufacturing Company, Towson, Md. Original filed, act of 1946, Principal Register, Dec. 13, 1950; amended to application, Supplemental Register, Nov. 30, 1951, Serial No. 607,616.

LECTRO-SAW

The word "Saw" is disclaimed.
For Portable Electric Saws.
Claims use since Oct. 9, 1950.

555,768. (Class 39. Clothing.) Delightform Foundations, Inc., Easton, Pa. Original filed, act of 1946, Principal Register, Dec. 14, 1950; amended to application, Supplemental Register, Dec. 15, 1951, Serial No. 607,660.

It Adds Without Pads

For Brassières.
Claims use since Dec. 1, 1950.

555,769. (Class 39. Clothing.) Morris L. Slimovitz, doing business under the name Morris Mfg. Co., Newbern, Tenn. Original filed, act of 1946, Principal Register, Feb. 14, 1951; amended to application, Supplemental Register, Dec. 15, 1951, Serial No. 610,105.

MORRIS *Feel Gloves*

For Woolen and Cotton Hunting Gloves.
Claims use since Jan. 15, 1950.

555,770. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Jack Feder, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 14, 1951; amended to application, Supplemental Register, Dec. 5, 1951, Serial No. 611,263.

EMERSON

For Sewing Machine and Sewing Machine Parts.
Claims use since Nov. 22, 1950.

555,771. (Class 7. Cordage.) Berwick Textile Products Company, Incorporated, Berwick, Pa. Original filed, act of 1946, Principal Register, Apr. 9, 1951; amended to application, Supplemental Register, Dec. 20, 1951, Serial No. 612,380.

Handee Hanks

For Packaged Rayon Acetate Ribbons, Used for Gift Wrapping.
Claims use since Mar. 24, 1947.

555,772. (Class 21. Electrical Apparatus, Machines, and Supplies.) Lectricovers Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 21, 1951; amended to application, Supplemental Register, Dec. 8, 1951, Serial No. 614,152.

Lectricover

For Electric Blankets and Comforters.
Claims use since Apr. 6, 1949.

Service Marks

555,773. (Class 105. Transportation and Storage.) Anthony Burke Carroll, Quincy, Mass. Original filed, act of 1946, Principal Register, Sept. 8, 1948; amended to application, Supplemental Register, Nov. 24, 1950, Serial No. 565,848.

CARROLL THE MOVER
KEEP MOVING

For Moving and Transporting Furniture, Household Goods, Pianos, Machinery, and Articles of Manufacture by Moving Van.
Claims use since 1925.

555,774. (Class 106. Material Treatment.) Publishers Book Bindery, Inc., Cambridge, Mass. Original filed, act of 1946, Principal Register, Sept. 16, 1949; amended to application, Supplemental Register, Dec. 5, 1951, Serial No. 584,924.

WEB-BAK

For Bookbinding.
Claims use since June 8, 1949.

555,775. (Class 100. Miscellaneous.) I. Snider Clothing Corp., Brooklyn, N. Y. Filed Aug. 19, 1950, Serial No. 602,475.



The lining on the drawing forms a part of the mark and does not serve to indicate color. The representation of the figures is fanciful.
For Rental of Formal Clothes.
Claims use since Jan. 9, 1947.

TRADE-MARK REGISTRATIONS RENEWED

37,352. REPRESENTATION OF RECTANGULAR DESIGN WITH DIAGONAL BAND, ETC. Registered Nov. 26, 1901. Cantrell & Cochrane, Ltd., Dublin, Ireland. Re-renewed Nov. 26, 1951, to National Phoenix Industries, Inc., New York, N. Y., a corporation of Delaware. Club-Soda. Class 45.

82,938. HIBULK. Registered Aug. 1, 1911. West Virginia Pulp & Paper Company. Re-renewed Aug. 1, 1951, to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware. Printing-Paper. Class 37.

82,940. PINNACLE. Registered Aug. 1, 1911. West Virginia Pulp & Paper Company. Re-renewed Aug. 1, 1951, to West Virginia Pulp and Paper Company, New York, N. Y., a corporation of Delaware. Printing-Paper. Class 37.

84,195. PIGEON. Registered Nov. 14, 1911. Standard Typewriter Co., Groton, N. Y. Re-renewed Nov. 14, 1951, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York. Carbon-Paper and Type-Writer Ribbons. Class 11.

84,886. "CHIC" AND DRAWING. Registered Jan. 9, 1912. Tootal Broadhurst Lee Company Limited, Manchester, England, a limited liability company registered under the laws of Great Britain. Re-renewed Jan. 9, 1952. Cotton Handkerchiefs. Class 39.

85,653. PRIDE OF THE VALLEY BRAND. Registered Mar. 5, 1912. Frederick City Packing Company. Re-renewed Mar. 5, 1952, to Jenkins Brothers, Inc., Frederick, Md., a corporation of Maryland. Canned Fruits and Canned Vegetables. Class 46.

85,816. CATERPILLAR. Registered Mar. 19, 1912. The Holt Manufacturing Company, Stockton, Calif. Re-renewed Mar. 19, 1952, to Caterpillar Tractor Co., Peoria, Ill., a corporation of California. Gasolene, steam, and Traction Engines, Etc. Class 23.

85,923. STARRETT. Registered Mar. 26, 1912. The L. S. Starrett Co. Re-renewed Mar. 26, 1952, to The L. S. Starrett Company, Athol, Mass., a corporation of Massachusetts. Ball Points, Brad Sets, Tool Makers' Buttons, Etc. Class 23.

86,343. CORONA. Registered Apr. 30, 1912. Standard Typewriter Company, Groton, N. Y. Re-renewed Apr. 30, 1952, to L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y., a corporation of New York. Type-Writing Machines and Parts Thereof. Class 23.

282,339. "AEROIL" AND DRAWING. Registered Apr. 21, 1931. Otis Oil Company, Inc. Renewed Apr. 21, 1951, to Ilsley Doubleday & Company, New York, N. Y., a corporation of New York. Lubricating Oil. Class 15.

285,920. "THE ZONTIAN" ETC. AND DESIGN. Registered Aug. 11, 1931. Zonta International, Chicago, Ill., a corporation of Illinois. Renewed Aug. 11, 1951. Monthly Publication. Class 38.

286,017. SUPEROL. Registered Aug. 11, 1931. Thomas Hedley & Company, Limited, Newcastle-on-Tyne, England. Renewed Aug. 11, 1951, to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio. Toilet Soap. Class 52.

286,192. TROJAN. Registered Aug. 18, 1931. Troy Wholesale Corporation, Troy, N. Y., a corporation of New York. Renewed Aug. 18, 1951. Hosiery, Sweaters, and Underwear, All for Men, Women, and Children. Class 39.

286,720. "MUD JACK" AND DESIGN. Registered Sept. 1, 1931. National Equipment Corporation. Renewed Sept. 1, 1951, to Koehring Company, Milwaukee, Wis., a corporation of Wisconsin. Machines for Pumping Cementitious Aggregates. Class 23.

288,117. CLOVER FARM. Registered Oct. 20, 1931. The Grocers & Producers Co. Renewed Oct. 20, 1951, to Clover Farm Stores Corporation, Cleveland, Ohio, a corporation of Ohio. Toilet Paper, Paper Napkins, Wrapping Paper, and Wax Paper. Class 37.

288,204. "PALMOLIVE" ETC. AND REPRESENTATION OF CARTON LINED FOR BLACK, GREEN AND YELLOW. Registered Oct. 20, 1931. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Oct. 20, 1951, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Shaving Cream. Class 51.

288,403. SYNCHRO INK. Registered Oct. 27, 1931. The International Printing Ink Corporation. Renewed Oct. 27, 1951, to Interchemical Corporation, New York, N. Y., a corporation of Ohio. Process Printing Inks. Class 11.

288,696. "GIRLS FRIEND" ETC. AND DRAWING. Registered Nov. 3, 1931. Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Renewed Nov. 3, 1951. Boots, Shoes, or Slippers Constructed of Leather, Rubber, Fabric, or Any Combinations Thereof and Having Leather Soles, for Women, Misses, and Children. Class 39.

288,797. "DIRECT CURE" AND DESIGN. Registered Nov. 3, 1931. Walter J. Jarratt. Renewed Nov. 3, 1951, to Safety Vulcanizer Company, Chicago, Ill., a corporation of Illinois. Electrical Vulcanizing Equipment—Namely, Vulcanizing Molds and Tube Plates, Spot Presses, Etc. Class 23.

288,899. FROZERT. Registered Nov. 10, 1931. Southwest Utility Dairy Products Company. Renewed Nov. 10, 1951, to The Southwest Ice & Dairy Products Company, Oklahoma City, Okla., a corporation of Delaware. Ice Cream. Class 46.

289,036. CALORITE. Registered Nov. 17, 1931. Acieries de Gennevilliers, Gennevilliers, France, a corporation organized under the laws of France. Renewed Nov. 17, 1951. Heat Producing Chemicals for Aluminothermic Processes Consisting of a Mixture of Metallic Oxydes and Aluminium, Silicium, Magnesium, or Other Metals. Class 6.

289,047. AMBER-LYTE. Registered Nov. 17, 1931. Martin Varnish Company, Chicago, Ill., a corporation of Illinois. Renewed Nov. 17, 1951. Finishes in the Nature of Paint, Varnish, Enamel, Etc. Class 16.

289,116. FIRM-A-FILE. Registered Nov. 17, 1931. Yawman and Erbe Mfg. Co., Rochester, N. Y., a corporation of New York. Renewed Nov. 17, 1951. Transverse Partition Plates for Filing Cabinet Drawers. Class 32.

289,160. GOOD SHOT! Registered Nov. 17, 1931. Harry C. Lee & Co., Inc., New York, N. Y., a corporation of New York. Renewed Nov. 17, 1951. Tennis Rackets, Golf Clubs, Tennis Balls, and Golf Balls. Class 22.

289,417. "OAK KROME" ETC. AND DESIGN. Registered Nov. 24, 1931. Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Renewed Nov. 24, 1951. Boots and Shoes of Leather, Rubber, or Fabric, or Any Combination Thereof, Having Leather Soles. Class 39.

289,527. PAGODA. Registered Dec. 1, 1931. Holophane Company, Inc., New York, N. Y., a corporation of Delaware. Renewed Dec. 1, 1951. Glass Globes and Reflectors. Class 33.

289,695. TOURS AND DETOURS. Registered Dec. 1, 1931. General Drafting Co., Inc., New York, N. Y., a corporation of New York. Renewed Dec. 1, 1951. Bulletin or Magazine Issued From Time to Time. Class 38.

289,810. "O'SULLIVAN'S" ETC. AND REPRESENTATION OF RUBBER HEEL. Registered Dec. 8, 1931. O'Sullivan Rubber Company, Inc., New York, N. Y. Renewed Dec. 8, 1951, to O'Sullivan Rubber Corporation, Winchester, Va., a corporation of Virginia. Rubber Heels for Boots and Shoes. Class 39.

289,815. STARTIX. Registered Dec. 8, 1931. Eclipse Machine Company. Renewed Dec. 8, 1951, to Bendix Aviation Corporation, Elmira Heights, N. Y., a corporation of Delaware. Automatic Starting Mechanism for Engines. Class 23.

289,828. VISA-VERSA. Registered Dec. 8, 1931. Maiden Form Brassiere Co., Inc., New York, N. Y., a corporation of New York. Renewed Dec. 8, 1951. Brassières and Girdles. Class 39.

289,858. MACK'S MINNO-BUG. Registered Dec. 8, 1931. Mary M. McGarraugh, doing business as Mack's Tackle Workshop, San Antonio, Tex. Renewed Dec. 8, 1951. Casting Lures for Fishing. Class 22.

289,932. "SPRINKLEMIST" AND DESIGN. Registered Dec. 15, 1931. Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut. Renewed Dec. 15, 1951. Lawn Sprinklers. Class 13.

290,091. ALECTRAL. Registered Dec. 22, 1931. General Cable Corporation. Renewed Dec. 22, 1951, to General Cable Corporation, New York, N. Y., a corporation of New Jersey. Electric Wires, and Cables and Terminals Therefor. Class 21.

290,292. THE PALL-BEARER. Registered Dec. 29, 1931. Steril Manufacturing Company, Omaha, Nebr., a corporation of Nebraska. Renewed Dec. 29, 1951. Casket Carriages or Trucks. Class 19.

290,320. PLYMOUTH. Registered Jan. 5, 1932. Chrysler Corporation, Highland Park, Mich., a corporation of Delaware. Renewed Jan. 5, 1952. Automobiles and Their Structural Parts. Class 19.

290,377. RED RANGER. Registered Jan. 5, 1932. Jno. H. Swisher & Son, Inc., Jacksonville, Fla., a corporation of Ohio. Renewed Jan. 5, 1952. Cigars. Class 17.

290,378. L N F. Registered Jan. 5, 1932. General Printing Ink Corporation, Wilmington, Del. Renewed Jan. 5, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Printing Ink. Class 11.

290,430. POZZOLITH. Registered Jan. 5, 1932. The Master Builders Company, Cleveland, Ohio, a corporation of Ohio. Renewed Jan. 5, 1952. Finely Divided Material To Be Added to Portland Cement, Containing Ingredients Intended To Stabilise, Strengthen and Increase Resistance to Disintegration. Class 12.

290,469. CLOVER FARM. Registered Jan. 5, 1932. The Grocers & Producers Co., doing business as Clover Farm Stores. Renewed Jan. 5, 1952, to Clover Farm Stores Corporation, Cleveland, Ohio, a corporation of Ohio. Toilet Soap, Laundry Soap, Granulated Soap, Soap Chips, Borax Soap Powder, and a Powder for Cleansing, Scouring and Polishing. Class 4.

290,588. "QUICK ELASTIC" ETC. AND DRAWING LINED FOR RED. Registered Jan. 12, 1932. The Hubinger Company, Keokuk, Iowa, a corporation of Iowa. Renewed Jan. 12, 1952. Starch. Class 6.

290,892. SPEAR. Registered Jan. 19, 1932. Alaska Pacific Salmon Corporation. Renewed Jan. 19, 1952, to Alaska Pacific Salmon Company, Seattle, Wash., a corporation of Nevada. Canned Salmon. Class 46.

290,917. CURVIPLAN. Registered Jan. 19, 1932. Fabriques Movado, La Chaux-de-Fonds, Switzerland, a corporation organized under the laws of Switzerland. Renewed Jan. 19, 1952. Watches and Parts of Watches. Class 27.

291,076. COPPER KING. Registered Jan. 26, 1932. Pioneer Rubber Mills, San Francisco, Calif., a corporation of California. Renewed Jan. 26, 1952. Combined Rubber and Fabric Belting. Class 35.

291,130. SILHOUWELT. Registered Jan. 26, 1932. United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Renewed Jan. 26, 1952, to United Shoe Machinery Corporation, Boston, Mass., a corporation of New Jersey. Cement Solvent or Softener. Class 6.

291,169. "ROSINELLA" AND DRAWING. Registered Feb. 2, 1932. B. Filippone & Co. Renewed Feb. 2, 1952, to B. Filippone and Co., Passaic, N. J., a corporation of New Jersey. Canned Peas, Canned Tuna Fish, Canned Tomatoes. Class 46.

291,187. VULCATEX. Registered Feb. 2, 1932. A. C. Horn Company. Renewed Feb. 2, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Caulking Compounds. Class 12.

291,457. PLEIN ÉTÉ. Registered Feb. 9, 1932. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 9, 1952. Perfumes, Toilet Water, Face Powder, Talcum Powder, Bath Salts, Etc. Class 51.

291,505. CALROD. Registered Feb. 9, 1932. Edison General Electric Appliance Company, Inc. Renewed Feb. 9, 1952, to Hotpoint Inc., Chicago, Ill., a corporation of New York. Electric Heating Units for Electric Heating and Cooking Devices Consisting of Flat-Irons, Curling Irons, Soldering Irons, Percolators, and Waffle Irons. Class 21.

291,629. SILHOUWELT. Registered Feb. 23, 1932. United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Renewed Feb. 23, 1952, to United Shoe Machinery Corporation, Boston, Mass., a corporation of New Jersey. Shoes Constructed Substantially Wholly of Leather or of Leather and Fabric and for Welting. Class 39.

291,775. THE WISP. Registered Feb. 23, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 23, 1952. Hosiery. Class 39.

291,869. SILHOUWELT. Registered Feb. 23, 1932. United Shoe Machinery Corporation, Paterson, N. J., and Boston, Mass. Renewed Feb. 23, 1952, to United Shoe Machinery Corporation, Boston, Mass., a corporation of New Jersey. Adhesive Cement, Particularly for Use in the Manufacture of Boots and Shoes. Class 5.

291,906. RELIEF. Registered Feb. 23, 1932. The Esterbrook Steel Pen Manufacturing Company. Renewed Feb. 23, 1952, to The Esterbrook Pen Company, Camden, N. J., a corporation of New Jersey. Writing Pens of All Kinds, Gold and Fountain Pens, and Paper Clips and Fasteners. Class 37.

291,912. DURACROME. Registered Feb. 23, 1932. The Esterbrook Steel Pen Manufacturing Company. Renewed Feb. 23, 1952, to The Esterbrook Pen Company, Camden, N. J., a corporation of New Jersey. Writing Pens of All Kinds. Class 37.

291,950. TETRONE. Registered Feb. 23, 1932. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Feb. 23, 1952. Chemicals Used in the Manufacture of Rubber Which Accelerate Vulcanization. Class 6.

292,040. TELEDIPHONE. Registered Mar. 1, 1932. Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey. Renewed Mar. 1, 1952. Dictating Machine Apparatus Equipped With Electromagnetic Sound Box Means and Designed To Produce Grooved Sound Records, Etc. Class 21.

292,139. STROPAX. Registered Mar. 1, 1932. Guth, Stern & Co. Inc., New York, N. Y., a corporation of New York. Renewed Mar. 1, 1952. Mechanical Razor Blade Sharpeners. Class 23.

292,278. RESONANCE. Registered Mar. 8, 1932. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed Mar. 8, 1952. Perfumes, Toilet Water, Face Powder, Talcum Powder, Etc. Class 51.

292,641. "TREFFINGER'S" ETC. AND DRAWING. Registered Mar. 22, 1932. Henry Treffinger, New York, N. Y. Renewed Mar. 22, 1952. Canned and Bottled Horse Radish, Horse Radish and Beets, Pickled Red Beets, Etc. Class 46.

292,875. SERISTAN. Registered Mar. 29, 1932. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed Mar. 29, 1952. Dyes and Dyestuffs, Especially Colors Suitable for the Dueing of Tinweighted Silk. Class 6.

292,974. SCHILLING. Registered Apr. 5, 1932. A. Schilling & Co., San Francisco, Calif. Renewed Apr. 5, 1952, to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif., a corporation of Maryland. Bicarbonate of Soda and for Flavoring Salts, Etc. Class 46.

292,996. THE MYTH. Registered Apr. 5, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed Apr. 5, 1952. Hosiery. Class 39.

293,129. SCHILLING. Registered Apr. 12, 1932. A. Schilling & Co., San Francisco, Calif. Renewed Apr. 12, 1952, to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif., a corporation of Maryland. Food Flavoring Extracts, Etc. Class 46.

293,130. SCHILLING. Registered Apr. 12, 1932. A. Schilling & Co., San Francisco, Calif. Renewed Apr. 12, 1952, to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif., a corporation of Maryland. Whole Spices, Including Allspice, Anise Seed, Bay Leaves, Black Pepper, Caraway Seed, Etc. Class 46.

293,268. SCHILLING. Registered Apr. 19, 1932. A. Schilling & Co., San Francisco, Calif. Renewed Apr. 19, 1952, to McCormick & Company, Incorporated, Baltimore, Md., and San Francisco, Calif., a corporation of Maryland. Coloring for Food Products—Namely, Red, Green, Yellow, Etc. Class 46.

293,281. MOISHA'S. Registered Apr. 19, 1932. Rosenberg & Gallant, Bronx, N. Y. Renewed Apr. 19, 1952, to R. & G. Distributors, Inc., New York, N. Y., a corporation of New York. Canned Fish. Class 46.

293,392. EDSOY. Registered Apr. 19, 1932. A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware. Renewed Apr. 19, 1952. Salad and Cooking Oil. Class 46.

293,501. EXID. Registered Apr. 26, 1932. Bloomer Bros. Company, Newark, N. Y., a corporation of New York. Renewed Apr. 26, 1952. Ice Cream Pails of Cardboard. Class 2.

293,643. CHAMPION. Registered May 3, 1932. The Durst Manufacturing Company, Inc., New York, N. Y., a corporation of New York. Renewed May 3, 1952. Radiator Siphon Valves. Class 13.

293,699. PETRONOKOL. Registered May 3, 1932. Petroleum Heat and Power Company, New York, N. Y. Renewed May 3, 1952, to Petroleum Heat and Power Company, Stamford, Conn., a corporation of Delaware. Gas Burners, Oil Burners, Automatic Boilers for Gas and Automatic Boilers for Oil. Class 34.

293,762. PETROHEAT. Registered May 3, 1932. Petroleum Heat and Power Company, New York, N. Y. Renewed May 3, 1952, to Petroleum Heat and Power Company, Stamford, Conn., a corporation of Delaware. Gas Burners, Oil Burners, Automatic Boilers for Gas, and Automatic Boilers for Oil. Class 34.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

129,648. THE CHICAGO DAILY NEWS. Registered Mar. 9, 1920. The Chicago Daily News Company, Chicago, Ill. Daily Newspapers. Class 38. The drawing is hereby amended to appear as follows:

CHICAGO DAILY NEWS

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Reg. No. 97,430. Registered June 2, 1914. Manning Sand Paper Company, Troy, N. Y. Republished by Behr-Manning Corporation, Troy, N. Y., a corporation of Massachusetts.

DURUNDUM

For Abrasive Paper and Cloth.
Claims use since about Dec. 20, 1913.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 317,347. Registered Sept. 25, 1934. George Frederick Croessant, doing business as Croessant Machine Works, Reading, Pa. Republished by registrant.

MOLLY

For Expansion Bolts.
Claims use since January 1934.

Reg. No. 373,123. Registered Nov. 28, 1939. Na-Mac Products Corporation, Los Angeles, Calif. Republished by Dispensers, Inc., Los Angeles, Calif., a corporation of California.

Dripcut

For Tableware With Metal Dispensing Closures.
Claims use since August 1936.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 348,675. Registered Aug. 3, 1937. Chicago Pharmacal Company, Chicago, Ill., a corporation of Illinois. Republished by Registrant.

VITACAIN

For Ointment Containing Vitamins A and D With Benzocaine To Be Used as a Dressing for Burns, Bruises, Cuts, and the Like.
Claims use since July 8, 1936.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 364,202. Registered Jan. 24, 1939. Ray-O-Vac Company, Madison, Wis., a corporation of Wisconsin. Republished by registrant.

RADIANT

For Dry Cell Batteries, for Use in Flash Lights and the Like.
Claims use since May 1932.

Reg. No. 387,279. Registered May 13, 1941. The Radiart Corporation, East Cleveland, Ohio, a corporation of Ohio. Republished by registrant, present address Cleveland, Ohio.

For Parts and Equipment Used for and in Connection With Radio Receiving Apparatus.
Claims use since Jan. 1, 1939.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Reg. No. 280,119. Registered Feb. 10, 1931. Max Kronstadt, doing business as Bristol Seamless Ring Co., New York, N. Y. Republished by Bristol Seamless Ring Company, New York, N. Y., a firm.

TREASURE

For Finger Rings.
Claims use since about Mar. 1, 1930.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 280,482. Registered Feb. 17, 1931. Acme Cotton Products Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Snopure

For Beauty (Powder) Puffs.
Claims use since Sept. 18, 1930.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 421,127. Registered May 21, 1946. Daniel Huttner, Chicago, Ill. Republished by registrant.

STERI-SAN
HYGIENIZED PROCESS

The words "Hygienized Process" are disclaimed apart from the mark as shown.
For Pillows and Mattresses.
Claims use since Feb. 24, 1945.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Reg. No. 359,358. Registered Aug. 16, 1938. Patti Bros. Accordion Mfg. Co., Milwaukee, Wis. Republished by Patti Bros. Accordion Mfg. Co., Milwaukee, Wis., a partnership.

ZEPHYR

For Accordions.
Claims use since Sept. 15, 1936.

CLASS 37

PAPER AND STATIONERY

Reg. No. 84,804. Registered Jan. 9, 1912. American Writing Paper Company, Holyoke, Mass. Republished by American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware.

ARCHIVE

For Writing Paper.
Claims use since 1893.

Reg. No. 85,030. Registered Jan. 23, 1912. American Writing Paper Company, Holyoke, Mass. Republished by American Writing Paper Corporation, Holyoke, Mass., a corporation of Delaware.

DERBY

For Writing Paper.
Claims use since 1894.

CLASS 39

CLOTHING

Reg. No. 283,116. Registered May 19, 1931. The Mallory Hat Company, Danbury, Conn. Republished by John B. Stetson Company, Philadelphia, Pa., a corporation of Pennsylvania.

Stowaway

For Men's, Women's, and Children's Hats of Felt, Straw, and Velour and Men's and Boys' Caps of Fabric.
Claims use since May 7, 1928.

Reg. No. 290,747. Registered Jan. 12, 1932. J. Schoeneman, Incorporated, Baltimore, Md., a corporation of Maryland. Republished by registrant.

AIR COOLED

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats, for Men, Youths, and Boys.
Claims use since about February 1931.

Reg. No. 291,090. Registered Jan. 26, 1932. J. Schoeneman, Incorporated, Baltimore, Md., a corporation of Maryland. Republished by registrant.

BANGORE

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats, for Men, Youths, and Boys.
Claims use since about February 1931.

Reg. No. 428,194. Registered Mar. 11, 1947. Manchester Knitted Fashions, Inc., Manchester, N. H., a corporation of New Hampshire. Republished by registrant.

NYLOWOOL

For Women's Knitted T Shirts, and Knitted Sweaters, Made of Nylon and Wool Yarns.
Claims use since Apr. 15, 1946.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 444,068. Registered July 4, 1950. The Russell Manufacturing Company, Alexander City, Ala., a corporation of Alabama. Republished by registrant.

CHILLBRO

For Woven Cotton Fabrics Sold by the Piece.
Claims use since Oct. 15, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 280,023. Registered Feb. 10, 1931. Acme Cotton Products Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

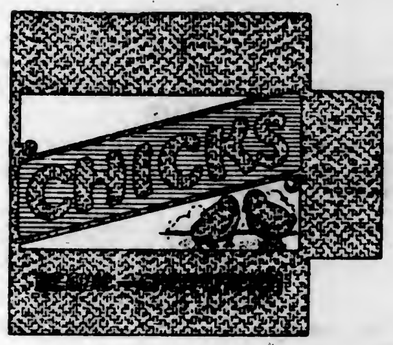
Snopure

For Absorbent Cotton.
Claims use since Mar. 5, 1930.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 259,097. Registered July 23, 1929. American Chewing Products Corp., Newark, N. J., a corporation of New Jersey. Republished by registrant.



The drawing is lined for yellow and blue. The outline of the label is disclaimed apart from the mark as shown.
For Candy Coated Chewing Gum.
Claims use since May 16, 1928.

Reg. No. 288,746. Registered Nov. 3, 1931. Simons & French Company, Incorporated, New York, N. Y., a corporation of New York. Republished by registrant, present address Sacramento, Calif., and New York, N. Y.



The descriptive notations "Foreign," "Domestic," and "Fruits" are disclaimed apart from the mark as shown.
For Fresh Vegetables, Fresh Citrus Fruits, Fresh Deciduous Fruits.
Claims use since Aug. 9, 1930.

Reg. No. 291,198. Registered Feb. 2, 1932. Robillo & Cuneo, Memphis, Tenn., a partnership. Republished by registrant.

RONCO

For Olive Oil.
Claims use since Apr. 1, 1931.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Reg. No. 84,611. Registered Dec. 26, 1911. E. I. du Pont de Nemours Powder Company, Hoboken, N. J., and Wilmington, Del. Republished by E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware.

FABRIKOID

For Imitation Leather.
Claims use since Apr. 19, 1901.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 212,811. Registered May 11, 1926. Darling Products, Inc., Troy, N. Y., a corporation of New York. Republished by registrant.

Bath Joy

For Bath Salts.
Claims use since Nov. 28, 1925.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 175,886. Registered Nov. 13, 1923. Magnus Chemical Company, Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant, present address Garwood, N. J.

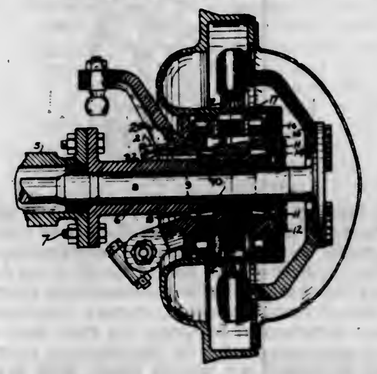


The word "Cleaners" is disclaimed apart from the mark as shown.
For Soap for Detergent Purposes and Soap Mixtures for Cleaning Finished Surfaces.
Claims use since about May 2, 1922.

REISSUES

MARCH 4, 1952

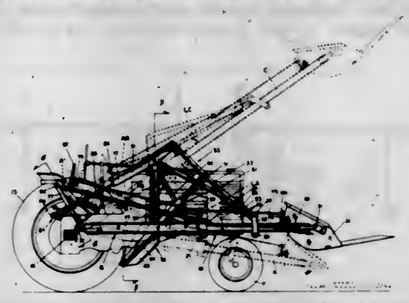
23,465
WHEEL CONSTRUCTION FOR FRONT WHEEL DRIVES
Harleigh R. Holmes, Littleton, Colo., assignor to Coleman Motors Corporation, Littleton, Colo., a corporation of Colorado
Original No. 2,346,842, dated April 18, 1944, Serial No. 485,937, May 6, 1943. Application for reissue November 7, 1951, Serial No. 255,241
4 Claims. (Cl. 180—48)



1. In a front wheel drive construction having an axle housing and a surrounding tubular spindle mounted for movement relative to the axle housing about a substantially vertical pivot, antifriction bearings positioned between the spindle and the axle housing, one above and one below the axle housing, the latter having means for positioning the bearings in axial alignment, the inner surface of the tubular spindle having diametrically opposed bearing seats *each* for one of the races of a bearing, means positioned between the inner surface of the spindle and the corresponding bearing race for urging the bearing inwardly, said means comprising a wedge movable in the direction of the axis of the spindle, and means for moving the wedge comprising a screw operatively connected with the spindle and the wedge.

23,466
LOADER MACHINE
Eric M. McElhinney, Dysart, and Theodore A. Podhajsky, Traer, Iowa
Original No. 2,472,223, dated June 7, 1949, Serial No. 716,132, December 13, 1946. Application for reissue May 22, 1950, Serial No. 163,352
8 Claims. (Cl. 214—141)

8. A loading machine including a portable frame, a pair of pivoted telescoping booms arranged at opposite sides of said portable frame and pivotally supported at their rear ends on said portable frame, said booms having front telescoping members, a pair of forwardly extended lift members pivotally supported at their rear ends on said portable frame for up and down movement, rock arms on said lift members for pivotal movement therewith, said lift members having their front ends in movable supporting engagement with said telescoping members, means for pivotally moving said lift members to raise and lower said booms, means for moving said telescoping members in response to an up and down movement of said lift members comprising first links pivoted at one of their ends to said front



telescoping members, levers pivoted at one of their ends to said portable frame, means pivotally connecting together the other ends of said links and levers, and second links movably connected to said rock arms and to said levers.

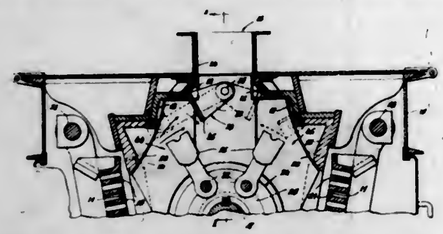
23,467
PROCESS FOR PREPARING DRIED MOLASSES
Earl O. Sargent, Oxnard, Calif.
No Drawing. Original No. 2,556,111, dated June 5, 1951, Serial No. 98,874, June 13, 1949. Application for reissue August 4, 1951, Serial No. 240,439
10 Claims. (Cl. 99—6)

1. The process for preparing a molasses in a pure dried, particle form which consists in mixing water with a molasses chilling the resultant mixture to a temperature of between 26° F. to 40° F., drying the mixture to remove excess moisture therefrom, and then grinding the dried mixture into particles.

23,468
REVERSIBLE HAMMER MILL WITH MATERIAL DEFLECTING FEED STRUCTURE
John Gilmore Wilson, Malvern, Pa., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York
Original No. 2,514,111, dated July 4, 1950, Serial No. 8,831, February 17, 1948. Application for reissue July 6, 1951, Serial No. 235,507
3 Claims. (Cl. 241—186)

3. In a crusher a casing, a rotor having a plurality of spaced pivoted hammers and adapted to be driven alternately in opposite directions and receiving and impacting material entering radially into the hammer circle when driven in either of said directions, said rotor being driven at a speed in each direction of rotation developing currents of dust-laden air directed outward from the hammer circle, a structure for passing material to said rotor comprising a feed chute having its center in the generally vertical plane of the rotor axis and delivering the material substantially radially into the hammer circle on both sides of said plane

for each direction of rotation of said hammers and means adjacent the delivery end of said feed chute forming a crushing chamber within the casing intervening between the delivery end of the feed chute and said hammer circle and having walls spaced from said hammer circle on both sides thereof and comprising plate means positioned in said chamber at a position on one side thereof where the hammers are approaching alignment with the near side of the said feed chute and extending downward and inward on one side to a point immediately adjacent said hammer circle and spaced from said center plane of the feed chute and generally in



alignment with the near side of the said radial feed into the hammer circle to intercept material carried upward by said hammers on the near side of said chamber and direct it inward into the hammer circle for a corresponding direction of rotation of said hammers, said plate means being adjustable to similarly extend inward to a point immediately adjacent said hammer circle on the other side of said chamber where the hammers are approaching alignment with the other near side of the said generally radial feed upon reversal of the direction of rotation of said hammers so as to correspondingly intercept material from said other side of said chamber and direct it inward into the hammer circle on said other side.

23,469

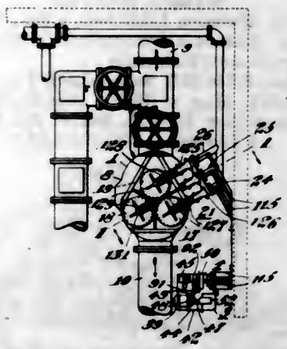
AUTOMATIC WATER STRAINER

Walter H. Zollinger, Bethlehem, Pa., assignor to Bethlehem Steel Company, a corporation of Pennsylvania

Original No. 2,441,526, dated May 11, 1948, Serial No. 548,637, August 9, 1944. Application for reissue February 19, 1949, Serial No. 77,421

11 Claims. (Cl. 210—152)

7. A fluid-straining apparatus comprising a



casing divided into two chambers, a fluid inlet in one chamber, a fluid outlet in the other chamber, a plurality of filter elements connecting said chambers, valve means for subjecting each filter element successively to a backwashing operation of predetermined duration, means responsive to pressure differential between the inlet and outlet sides of said apparatus to initiate the operation of said backwashing means when said pressure differential exceeds a predetermined value, and time-control means for stopping said backwashing means after said pressure differential has been restored to said predetermined value and the backwashing cycle of the filter element then being cleaned has been completed.

PATENTS

GRANTED MARCH 4, 1952

2,587,576

HIGHER ALCOHOLS FROM ALDEHYDES

Edmund Field, Chicago, Ill., and Bernard L. Hill, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application December 2, 1950, Serial No. 198,918

10 Claims. (Cl. 260—638)

1. A process of preparing, from normal aldehydes having from two to four carbon atoms per molecule, primary alcohols having at least twice as many carbon atoms per molecule as the source aldehyde, the said process comprising admixing, with a said aldehyde, carbon monoxide and hydrogen in a mol ratio between 2:1 and 1:4 in the presence, as catalyst, of at least one of the group consisting of cobalt carbonyls and hydrocarbonyls, maintaining the said aldehyde and gases at a temperature between 120° and 200° C. and under a pressure between about 1,000 and 10,000 pounds per square inch thus effecting a condensation-hydrogenation of the aldehyde, separating catalyst from product oil, and fractionating the product to obtain a polymeric primary-alcohol derivative having at least twice as many carbon atoms per molecule as the employed aldehyde.

2,587,577

PRODUCTION OF ARYLINDANS

Vladimir N. Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application March 27, 1948, Serial No. 17,588

18 Claims. (Cl. 260—668)

4. A process for producing an indan hydrocarbon which comprises reacting in the presence of a mineral acid catalyst at a temperature of from about −30° to about 100° C., a branched chain alcohol and a para-disubstituted benzene hydrocarbon having as one substituent a saturated hydrocarbon group containing at least three carbon atoms and having a hydrogen atom joined to the carbon atom combined with the benzene ring.

2,587,578

PREPARATION OF PHENOLIC RESINS THAT PRODUCE LIGHT-COLORED VARNISH COATINGS

John Leslie Jones, Los Angeles, Calif., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

No Drawing. Application February 19, 1947, Serial No. 729,666

23 Claims. (Cl. 260—19)

1. A method of preparing a resin by reacting 0.5–2 mols of formaldehyde with 1 mol of a compound of the class consisting of mono-substituted phenols whose substituent in each case is a mono-olefinic hydrocarbon radical and polymers thereof, characterized (1) by said radical being in the para position and having from three to four carbon atoms and (2) by carrying out the reaction in the presence of, as a catalyst, a zinc salt of an organic acid whose strength is not substantially greater than that of formic acid, whereby there is obtained an oil-soluble resin that produces varnish coatings of greatly improved color.

2,587,579

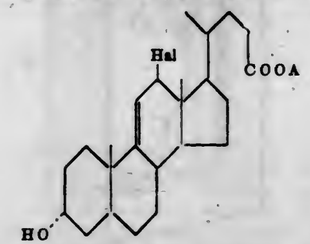
INTERMEDIATE COMPOUNDS IN THE SYNTHESIS OF DEHYDROCORTICOSTERONE

Edward C. Kendall, Rochester, Minn., assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application January 12, 1951, Serial No. 205,839

2 Claims. (Cl. 260—397.1)

1. A compound of the general formula



wherein Hal is a halogen of the group consisting of chlorine and bromine and A is selected from the group consisting of hydrogen and lower alkyl groups.

2,587,580

METHOD OF PREPARING CARBOTHIOLIC ACIDS

John C. McCool, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application June 3, 1949, Serial No. 97,662

4 Claims. (Cl. 260—500)

1. A process for the preparation of thiolacetic acid which comprises reacting acetic anhydride with hydrogen sulfide in the presence of an organic mono-sulfonic acid of the structure $R—SO_3H$ wherein R is a hydrocarbon radical containing 1 to 12 carbon atoms and recovering the thiolacetic acid.

2,587,581

AZIDE MODIFIED FUELS AND LUBRICANTS

Sol Shappirio, Washington, D. C.

No Drawing. Application May 10, 1948, Serial No. 26,237

15 Claims. (Cl. 252—47.5)

1. A liquid petroleum distillate containing as a beneficiating agent, from .05 to 5% by weight of a sulphazide having the formula $R.NH.NHSO_2R'$, where R and R' are selected from the group consisting of alkyl and aryl radicals.

2,587,582

LATCH

Vito J. Acuasso, Philadelphia, Pa.

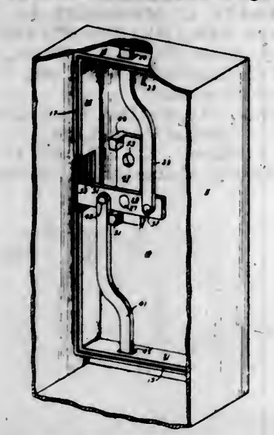
Application September 7, 1949, Serial No. 114,449

4 Claims. (Cl. 292—4)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

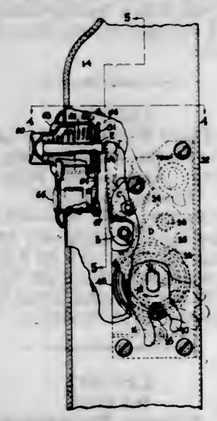
1. A latching device comprising a shaft adapted to be mounted rotatably in a door, a latching tongue carried on said shaft and rotatable thereby into mating notches in a stile and jamb of

such door, a first rod carried rotatably on said tongue between said shaft and the notch-engaging portion of said tongue, said rod being extensible into mating slots in the sill and lower rail of such door by rotation of said tongue, a second rod carried rotatably on said tongue between said shaft and the end of said tongue distal the



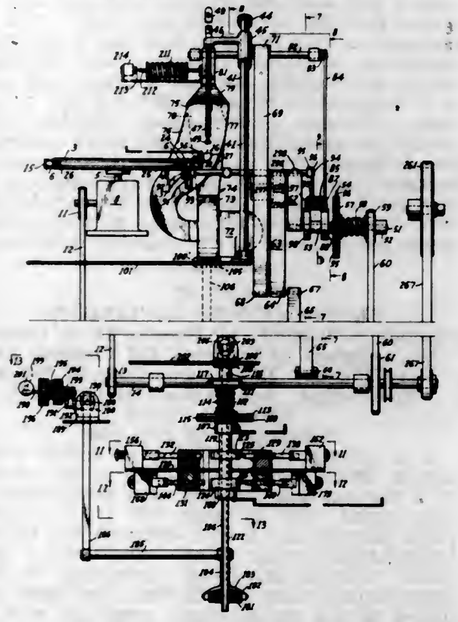
notch-engaging portion thereof, said second rod being extensible into mating slots in the head and upper rail of such door by rotation of said tongue, and a plate mounted rotatably on said shaft between said tongue and said door, said plate having upstanding lips adapted to limit rotation of said tongue.

2,587,583
LOCK MEANS FOR DOOR CONTROL MECHANISM
Edwin L. Allen and Angelo R. De Vito, Cleveland Heights, Ohio, and Harold B. Muster, Fountain City, Ind., assignors, by mesne assignments, to Rudolph L. Schonitzer, Cleveland, Ohio
Application January 21, 1947, Serial No. 723,330
3 Claims. (Cl. 292—216)



3. In a door control mechanism a detent adapted releasably to retain the mechanism in door latched position, push button means including a hollow plunger having a rearwardly opening cavity, push rod means extending within said cavity and having a head end disposed at the head end of said plunger, spring means arranged to maintain said push rod head end pivotally bearing against said plunger and provide automatic return of the latter from depressed position, said spring means bearing about said push rod adjacent the head end thereof and extending therefrom divergently toward the shank end thereof, means arranged to bear against a shank end portion of said push rod means and shiftable transversely to selectively predetermine the shank end path of travel responsive to depression of said plunger, and detent trip means arranged to be energized by said push rod shank end in one of said paths and not in another.

2,587,584
MACHINE FOR PACKING BOTTLES WITH RELATIVELY SMALL OBJECTS
Raymond Althoff, Somerville, N. J.
Application April 26, 1949, Serial No. 89,663
29 Claims. (Cl. 226—16)

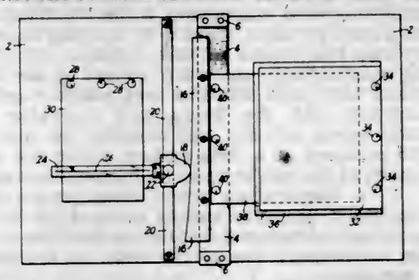


1. A bottle packer comprising means for delivering an object to be packed at a fixed point in space, means for holding a bottle surrounding said point, means for turning a bottle so held, a number of solenoid controlled arrestors for arresting such turning at predetermined angles of turn, an electric pulse generator coupled to said means for delivering, a pulse-operated electric controller in series with said electric pulse generator adapted to release one solenoid controlled arrestor and energizing a succeeding solenoid controlled arrestor.

2,587,585
APPARATUS FOR PRODUCING STEREOSCOPIC PICTURES
Waldemar A. Ayres, Kew Gardens Hills, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application June 29, 1945, Serial No. 602,377
3 Claims. (Cl. 45—129)

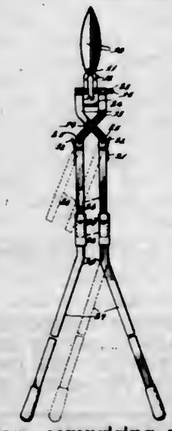
1. In apparatus of the character described, the combination of, a drawing board, mounting means

for a plurality of sheets upon which views are to be produced, a depth gauge to indicate to the operator the apparent depth of substantially each object in the view, cam means presenting a cam surface the contour of which varies with the depth



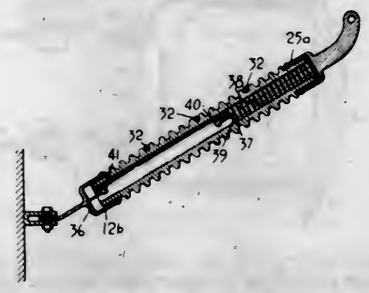
indication in accordance with the parallax displacement of the particular object, and means to displace one of the sheets in accordance with the portion of said cam surface which is presented.

2,587,586
LAWN TRIMMER AND SHRUBBERY PRUNER
Alfredo Natale Bernardi, Highland Park, Ill.
Application June 24, 1949, Serial No. 101,183
4 Claims. (Cl. 30—252)



1. Garden shears comprising pivoted blades; shanks of swivel form extending from said blades; a pair of manually operable pivoted cross-tongs spaced from said blades; coaxial spindles journaled on said tongs and arranged transverse thereto, each spindle having pivotal connection with a shank for effecting simultaneous hinging movement of said blades with respect to said tongs, said shanks and spindles cooperating to provide freely operating connections between said blades and tongs thereby to accommodate said blades to the operating movement of said tongs when said blades are positioned at an angle to said tongs thereby to prevent binding of the parts during angular cutting operations; elongate arms having hinge connections with the ends of said tongs which are remote to said blades and being normally in parallelism with said tongs, said hinge connections permitting adjustment of said arms to position said arms oblique to said tongs; and devices cooperatively associated with said arms and tongs for releasably holding said arms in a plurality of positions with respect to said tongs, whereby cutting operations are performed by the assembly with the arms inclined to the perpendicular.

2,587,587
SUSPENSION INSULATOR FOR HIGH-TENSION CONDUCTORS
Russell G. Bellezza and George M. Ruoff, Baltimore, Md., assignors to General Electric Company, a corporation of New York
Application October 15, 1945, Serial No. 622,408
12 Claims. (Cl. 174—140)



10. A suspension insulator for mounting high tension conductors on a rigid supporting member comprising a plurality of securing means connected to said supporting member in vertical spaced relation, a plurality of rigid porcelain insulator rods, means for connecting one end of each rod to one of said securing means, means for releasably connecting together the opposite ends of said rods, at least one of said rods carrying a lightning arrester, and means for supporting a high tension conductor adjacent the connected portion of said rods.

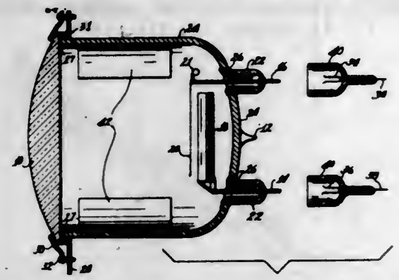
2,587,588
METHOD OF PREPARING A DRYING OIL BY DEHYDROCHLORINATION
David A. Berry, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware
No Drawing. Application December 24, 1947, Serial No. 793,755
7 Claims. (Cl. 260—654)

1. The method of making a drying oil by dehydrochlorinating a chlorinated paraffinic hydrocarbon having between 18 and 36 carbon atoms and having an average between 4 and 10 chlorine atoms to each molecule to a point where said molecules have less than one chlorine atom on the average, which includes the steps of reacting said chlorinated hydrocarbon with alkali metal hydroxide in a solvent chosen from the group of dihydric alcohols and dihydric ethers having from 2 to 6 carbon atoms in the presence of a catalyst chosen from the group of titanium dioxide and zirconium dioxide, and separately recovering the dehydrochlorinated product.

2,587,589
SEALED LENS PHOTOTUBE
Robert W. Bordewieck, Natick, Mass., assignor, by mesne assignments, to Moore Electronic Laboratories, Inc., Worcester, Mass., a corporation of Massachusetts
Application November 3, 1947, Serial No. 783,789
1 Claim. (Cl. 313—101)

A photoelectric tube comprising an evacuated metallic housing, there being an opening in the said housing, a lens sealed to the edges of said opening, photoelectric anode and cathode elements within the housing, a pair of spaced insulator bosses sealed to the edges of two additional holes in the said housing, a conducting pin attached to each boss, the said pins sup-

porting in insulated manner from the housing the aforementioned anode and cathode members and to provide external connections to the same, the spacing of the lens to the cathode being sufficient so that light from a small angle only will



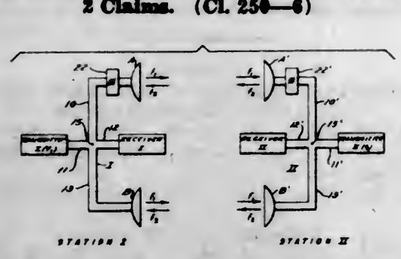
be intercepted by the aforementioned cathode, thereby providing a phototube having high sensitivity and sharp directional properties and having ideal internal and external guard circuits by virtue of the metallic housing.

2,587,590

ULTRAHIGH-FREQUENCY APPARATUS

Alexander F. Brewer, Lynbrook, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application July 26, 1946, Serial No. 686,304
2 Claims. (Cl. 250—6)



2. In combination, a bridge circuit having an input element and an output element and two balancing elements all interconnected through a common junction, separate antennas terminating each of said two balancing elements, the impedances of said balancing elements being unequal at said common junction, a transmitter having its output connected to said input element, and a superheterodyne receiver having its input connected to said output element, the operating frequency of said transmitter differing from the operating frequency of said receiver by an amount equal to the intermediate frequency of said superheterodyne receiver and the transmitter providing the local oscillator for said receiver.

2,587,591

COTTON FILLED STRUCTURAL MATERIAL AND PROCESS OF PREPARING THE SAME

Hibbard S. Busby and Wendell L. Ward, New Orleans, La., assignors to United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 11, 1950, Serial No. 173,222
4 Claims. (Cl. 260—17.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

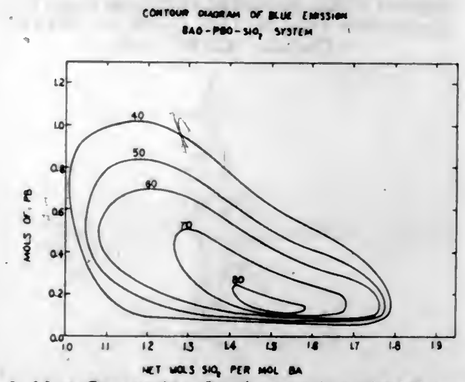
4. A process for preparing a structural material comprising: suspending cotton fiber in a liquid ketone solvent for a vinyl acetate resin, the solvent containing an organic peroxide vinyl acetate polymerizing catalyst and a vinyl acetate resin cross-linking agent selected from the class of di-allyl esters of aliphatic dicarboxylic acids, maintaining said suspension while the fibers assume a swollen state, stirring in the vinyl acetate resin into the ketone solvent solution, the fibers being substantially uniformly coated by the resin solution, the resin solution progressively gelling in contact with the fibers, and thereafter removing excess solvent, and molding the mixture under pressure at a temperature above the boiling point of the solvent and no higher than about 100° C., a temperature above room temperature but no higher than the boiling point of the ketone solvent being employed during the swelling of the fibers and the gelling of the resin to accelerate the process.

2,587,592

BARIUM MESOTRISILICATE PHOSPHOR

Keith H. Butler, Marblehead, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts

Application February 1, 1947, Serial No. 725,779
1 Claim. (Cl. 252—301.4)



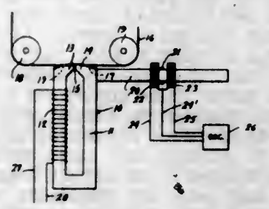
A blue-fluorescing luminescent material consisting essentially of barium lead silicate having about 1.5 net mols of SiO_2 per mol of Ba and about 0.12 mol of Pb per mol of Ba.

2,587,593

APPARATUS FOR SUPPLYING MECHANICAL RECORDING BIAS TO MAGNETIC RECORDERS

Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois

Application August 31, 1946, Serial No. 694,354
5 Claims. (Cl. 179—100.2)



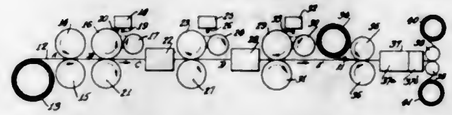
2. A magnetic recorder for recording fluctuating electrical energy on an elongated magnetizable record member which comprises at least one magnetic pole member in contact with and across which said record member is arranged to pass, means for establishing a fluctuating magnetic flux in said pole member as a function of fluctuating electrical energy to be recorded, and means for mechanically vibrating a portion of said record member as said portion passes across said pole member in an amount sufficient to improve the linearity of the initial magnetization characteristic of the magnetic record member.

2,587,594

PROCESS FOR MAKING DECORATIVE SHEET-LIKE ARTICLES

Marc A. Chavannes, Lisbon, and Leon E. Mageon, Pachaug, Conn., assignors, by direct and mesne assignments, to Chavannes Industrial Synthetics, Inc., New York, N. Y., a corporation of Delaware

Application October 31, 1946, Serial No. 707,022
5 Claims. (Cl. 18—61)



1. A method of producing a flexible vinyl film having a two-toned irregular surface, comprising the steps of applying a fluid substance including a vinyl resin to only the high regions of an embossed surface of an advancing flexible carrier, so as to leave exposed the low regions of said surface, drying said substance on said high regions, said surface being only lightly adhesive to vinyl resin when the latter is dried thereon, forming over said exposed low regions of said surface and over said dried, first-applied substance on said high regions a continuous layer of a film-forming dispersion comprising a vinyl resin, a plasticizer, and a diluent, said dispersion being sufficiently inert in relation to said dried first-applied substance not to dissolve same and destroy the pattern thereof, and being colored differently from said first-applied substance, drying said layer, bonding said dried layer permanently to said dried first-applied substance by heating them to a fusing temperature, and stripping said layer together with said first-applied substance from said carrier by applying tension to said layer in a direction away from said carrier.

2,587,595

SEPARATION OF HYDROGEN HALIDES FROM OLEFINICALLY UNSATURATED COMPOUNDS

Harry A. Cheney, Berkeley, and John H. Raley, Walnut Creek, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 6, 1949, Serial No. 131,514
7 Claims. (Cl. 202—57)

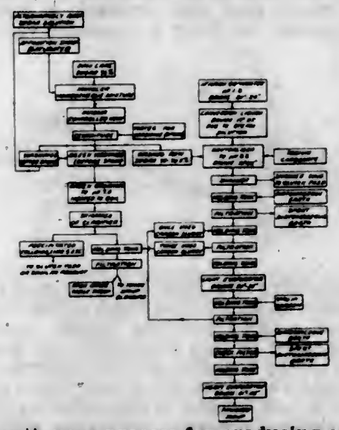
1. In a method for separating the hydrogen halide and the olefinically unsaturated organic components of a liquid mixture by fractionation, the improvement comprising effecting said fractionation in the presence of at least one compound selected from the group consisting of hydrogen sulfide and thiols, which compound is dissolved in the said liquid mixture.

2,587,596

HYDROLYSIS PROCESS

James Edwin Cleland, Granite City, Ill., assignor to Union Starch & Refining Company, Columbus, Ind., a corporation of Indiana

Application February 11, 1950, Serial No. 143,785
5 Claims. (Cl. 127—41)



1. A continuous process for producing an extra sweet syrup which comprises acidifying a corn starch suspension to a pH of 1.4–1.8, heating the acidified suspension to a temperature corresponding to 20–50 lbs. of steam pressure to hydrolyze the starch and produce a corn syrup, decreasing the hydrolyzing potential of said acidified composition by a procedure which includes discontinuing the heating and reducing the pressure on the composition to atmospheric pressure, adding a readily hydrolyzed carbohydrate to the heated, acid-containing, corn syrup so that the residual heat and acid of said hydrolysis mixture effects the hydrolysis of the carbohydrate, the hydrolysis product of said carbohydrate substance increasing the sweetness of the hydrolyzed corn syrup, thereafter neutralizing the syrup, and refining and concentrating the mixed syrup.

2,587,597

PROCESS FOR REMOVAL OF PIGMENTS FROM PRINTED TEXTILES AND AGENTS USEFUL THEREIN

Alton A. Cook, Glen Ridge, and Ira Sapers, Newark, N. J., assignors to Arkansas Company, Inc., Newark, N. J., a corporation of New York

No Drawing. Application July 14, 1949, Serial No. 104,807
6 Claims. (Cl. 8—102)

1. A process of removing imprinted phthalocyanine pigments embodied in water insoluble resinous binders from textiles, which comprises immersing the fabrics in an aqueous dispersion containing a quaternary ammonium compound, caustic soda and an alkali metal hydrosulfite.

2,587,598

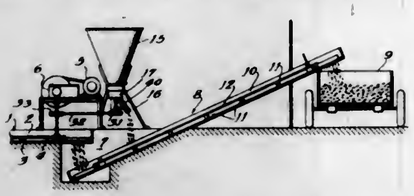
APPARATUS FOR MIXING MANURE AND DRY FERTILIZERS

Nat Cordis, Silver Lake, Wis.

Application November 1, 1947, Serial No. 783,549
3 Claims. (Cl. 259—2)

3. An apparatus for mixing manure and dry fertilizers comprising an endless manure conveyor traveling within a trough in a barn floor behind

a row of stalls, a manure collection hopper in the path of said conveyor below said trough, a drive sprocket for said conveyor adjacent said hopper, a vertical drive shaft for said sprocket, a power means for rotating said drive shaft, a driven shaft parallel to said drive shaft, a power take-off on said drive shaft intermediate said power means and said sprocket, a reservoir of dry pulverant fertilizer, a rotatable valve means



for discharging dry fertilizer from said reservoir, an agitator on said driven shaft within said reservoir, and a drive coupling means between the power take-off on said drive shaft and said driven shaft, whereby the discharge of pulverant fertilizer by said valve means for admixture with said manure in said hopper is controlled by the speed of the endless conveyor delivering manure into said hopper from said trough.

2,587,599

CATALYTIC METAL-ALKALINE EARTH CARBONATE PELLET AND ITS PRODUCTION

Ben Bennett Corson and George Arthur Webb, Pittsburgh, Pa., assignors to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application August 27, 1945, Serial No. 613,036

14 Claims. (Cl. 252—443)

1. In the manufacture of a catalyst the steps of incorporating in a catalyst mass a catalyst and a hydrated alkaline earth metal oxide, forming the mass and heating it in a carbonating atmosphere at a temperature above the dehydration temperature of said hydrated alkaline earth metal oxide whereby the hydrated alkaline earth metal oxide is simultaneously dehydrated and carbonated.

2,587,600

PURIFICATION OF RUTIN

James F. Couch, Glenside, and Charles F. Krewson, Erdenheim, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 23, 1948, Serial No. 40,418

16 Claims. (Cl. 260—210)

(Granted under the act of March 3, 1883, amended April 30, 1928; 370 O. G. 757)

5. In a process of preparing rutin from buck wheat in which buckwheat leaf meal is extracted with water, impurities coagulated with alcohol and the coagulant removed, and rutin crystallized from solution, the improvement comprising removing the odor imparting impurities by thereafter treating the rutin with a hot boiling water-immiscible organic solvent which is inert to rutin and in which rutin is substantially insoluble, taken from the group consisting of benzene, chloroform, and diethyl ether, at a temperature below the decomposition temperature of rutin, for a length of time sufficient to deodorize the rutin and to form an extract containing the odoriferous impurities disposed in the solvent, being several hours.

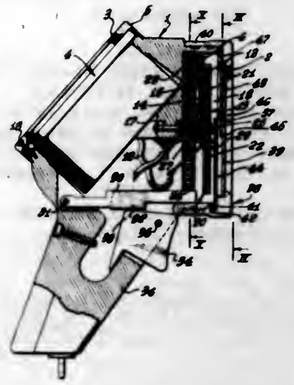
2,587,601

DIRECT READING COLOR TEMPERATURE METER

Frank F. Crandell, Pasadena, and Herman Heidt, Inglewood, Calif., assignors to Photo Research Corporation, San Fernando, Calif., a corporation of California

Application September 17, 1948, Serial No. 49,706

4 Claims. (Cl. 88—22.5)



1. In a portable direct reading color temperature meter, the provision of: a hollow housing provided with a light-admitting port at one end lying in a plane perpendicular to the axis of the housing; a viewing port at the other end of the housing lying in a forwardly inclined plane with respect to the axis of the housing; a handle extending downwardly from the side of the housing opposite to said viewing port; a single light-responsive meter positioned within the housing to receive light from the light-admitting port; a scale and a movable index operatively connected to the meter and lying beneath the inclined viewing port; two light filters mounted for rotation about a common axis and positioned between the light-admitting port and the meter; light-admitting means, including a rearwardly directed circular lip, carried by said housing in cooperative relation to the light-admitting port and adjustable by rotative engagement of said lip with adjacent edge margins of said housing; and means for selectively moving the light filters each into a position for varying the light impinging upon said meter, said means including a trigger carried by the handle, a pinion rotatable about the same axis as the light filters and operatively connected to the trigger, and a rack bar in meshed engagement with the pinion.

2,587,602

COLOR TEMPERATURE METER AND SPECTROMETER

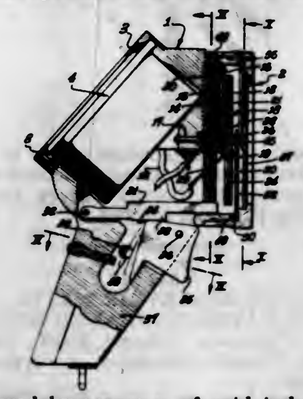
Frank F. Crandell, Pasadena, Calif., assignor to Photo Research Corporation, San Fernando, Calif., a corporation of California

Application January 31, 1949, Serial No. 73,827

10 Claims. (Cl. 88—22.5)

1. In a light responsive device for determining the color temperature and spectral characteristics of light being examined, the combination of: a hollow housing provided with a light admitting port, a light responsive cell to receive light admitted through the port, an adjustable light limiting means positioned between the cell and the port for controlling the quantity of light impinging the cell; a light filter means movably positioned between the cell and the port; said

filter means including a first light filter adapted to transmit virtually a selected band of light wave lengths, a second light filter adapted to transmit virtually a second selected band of light wave lengths different from the first mentioned band of wave lengths; a third light filter adapted to transmit virtually a third selected band of light wave lengths; said third selected wavelength band being intermediate the first and second selected wavelength bands, manually actuable means for selectively causing each of said light filters to be operatively positioned between the cell and the port, an electrically responsive meter operatively connected to the cell and to an index movable by said meter, and two scales provided with indicia in degrees Kelvin and having a common reference point in operative relation to the movable index, one scale having indicia spaced to indicate color temperature



as measured by response of said index to light transmitted by the second filter and light transmitted by the first filter, and the other scale having indicia spaced to determine the amount of light in the selected intermediate wave length band being examined by response of the index to the light transmitted by the third filter and the light transmitted by the second filter whereby a differential between indicia read on each scale indicates a variance in the amount of light in the wave length band being examined from an amount of light in a light source having color temperature as read on said one scale; said meter and scale being carried by the housing at an angle to the light admitting port whereby an observer may observe the scales in a direction at an angle to the mean direction of light received through the light admitting port, the spectral composition of which is to be measured.

2,587,603

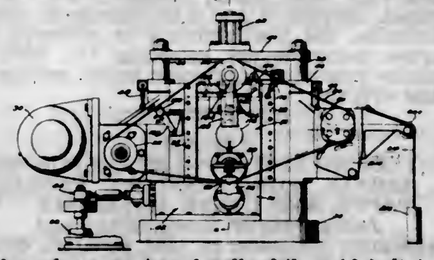
TURBINE BLADE GRINDING MACHINE

Sigmund A. Czarnecki, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application May 17, 1949, Serial No. 93,649

20 Claims. (Cl. 51—143)

19. In a machine for finishing irregularly shaped articles, in combination, a travelling belt having an abrasive surface, a work support, a contact roll for positioning the abrasive surface of said belt relative to a piece of work on said support, said roll having a peripheral depression therein constituting a developed impression of a surface of a finished work piece, means for effecting relative reciprocatory movements between said roll and said work piece, said means comprising positioning means having a predetermined location with respect to said work support and positioning means having a predetermined location with respect to said roll axis, at least one of said positioning means being movable and connected with its respective work support or roll to effect reciprocation thereof, a cam coacting with both said positioning means to relatively position



said work support and roll while said belt is in contact with said work, and means to actuate said cam to reciprocate said movable positioning means and effect said relative reciprocatory movement while said belt is in contact with said work, and means for oscillating said roll about its axis in timed relation with said reciprocatory movements.

2,587,604

TRAVELING MESH CLUSTER PICKER, LEAF AND STEM SEPARATOR

Florian F. Dauenhauer, Santa Rosa, Calif.

Application January 3, 1948, Serial No. 405

4 Claims. (Cl. 130—30)



1. In a hop-picking machine: an endless screen guided to have upper and lower active sifting reaches, and defining an unobstructed material-dropping space extending between the reaches; the upper reach being adapted for receiving separated hops, broken branches, leaves and clusters of hops broken off from hop vines; the mesh of the screen being large enough for passage of the separated hops through both reaches of the screen by gravity, while preventing passage of broken branches and hop clusters through the mesh; means for imparting rotary movement to the screen; driven finger picker drums rotating in directions counter to movement of the upper screen reach, and cooperating with this screen reach for snapping hops from the clusters caught by the screen; and driven beaters engaging with inner and outer surfaces of the screen to positively clear the remaining hop-vine material from the screen.

2,587,605

MANUFACTURE OF TIN PLATE

John G. Donelson and Viljo W. Vaurio, Pittsburgh, Pa., assignors to United States Steel Company, a corporation of New Jersey

No Drawing. Application December 9, 1947, Serial No. 790,702

3 Claims. (Cl. 148—16.7)

1. In the manufacture of tin plate, the improvement comprising box-annealing low metalloid fer-

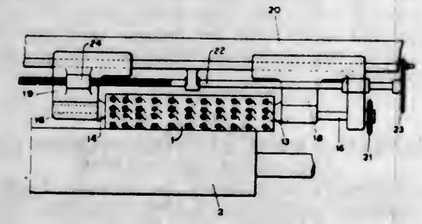
rous tin-plate stock containing between .025 and .11% carbon, .25 to .50% manganese, .015% maximum phosphorus, .05% maximum sulphur, .01% maximum silicon, .06% maximum copper, balance substantially iron, at a temperature over 1200° F. and less than 1350° F. in a reducing atmosphere containing less than 0.1% carbon dioxide, less than 0.1% water vapor, between 2 and 7% hydrogen, between 0 and 3.5% maximum carbon monoxide, the total amounts of hydrogen and carbon monoxide not exceeding 7%, with the balance substantially nitrogen before coating the same with tin.

2,587,606

CYLINDER ADJUSTING MEANS FOR MACHINES FOR PRINTING FABRICS, PAPER, AND OTHER MATERIALS

Julien Dungler, Basel, Switzerland

Application September 26, 1946, Serial No. 699,513
In France June 11, 1946
4 Claims. (Cl. 101—248)



3. A printing machine for printing fabrics, paper and like sheet material; comprising, in combination, a pressure cylinder, a printing cylinder for contact with said pressure cylinder, bearings arranged at opposite ends of said printing cylinder, said printing cylinder being provided at each end with a central conical bore, each bearing including a conical member engageable with the respective conical bore of said printing cylinder, a stub shaft extending from each conical member, respective sleeve elements for said stub shafts, lateral extensions connected to said sleeve elements, respectively, a threaded spindle interconnecting said lateral extensions and including means adapted to displace at least one of said lateral extensions relatively to the other lateral extension whereby said conical members may be moved into and out of said conical bores, and supporting means common to both said lateral extensions, said lateral extensions slidably engaging said supporting means, whereby the effective length of said printing cylinder may be adjusted relatively to said pressure cylinder by sliding said lateral extensions along said supporting means.

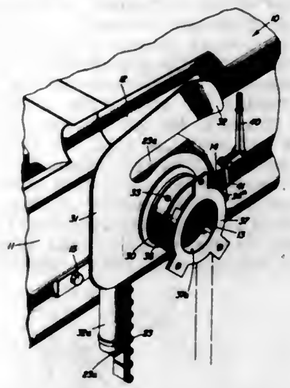
2,587,607

AMMUNITION CONVEYER FOR GUNS

Edward Wallace Farrell, United States Marine Corps

Application April 28, 1945, Serial No. 590,867
3 Claims. (Cl. 89—45)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An ammunition conveyor for use with a gun having a trunnion and a recoiling part, comprising, in combination, a sprocket wheel rotatably mounted on said trunnion adjacent the gun, a flexible ammunition conveying chain passing over and engaging said sprocket wheel, a rack mounted on said recoiling gun part, a gear wheel rotatably mounted on said trunnion and adapted to be rotated by reciprocation of said rack, and means including a pawl and a ratchet for transmitting rotation from said wheel to said



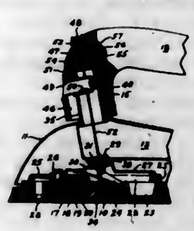
sprocket only during counter-recoil of the gun, whereby said sprocket wheel is actuated and the chain is moved to thereby convey ammunition to a position adjacent the gun.

2,587,608

STEAM IRON RESERVOIR WATER SUPPLY AND WATER DISCHARGE MEANS

Frank E. Finlayson, Ontario, Calif., assignor to General Electric Company, a corporation of New York

Application January 7, 1949, Serial No. 69,756
7 Claims. (Cl. 38—77)



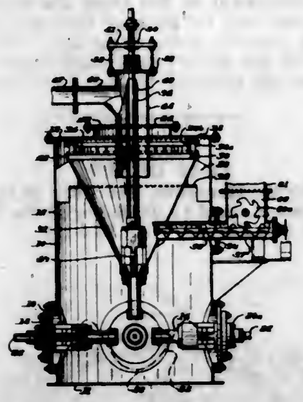
1. A steam iron comprising a liquid reservoir, a steam generating chamber, an orificed member between said reservoir and said chamber to permit liquid from the reservoir to flow into said chamber while ironing, means for heating said chamber for generating steam from the water fed into it, a hollow riser fixed to and extending away from said reservoir, said riser having a fixed length and a closed outer end and also a filling opening adjacent said outer end and facing the forward end of said iron, a handle support on said iron, said handle support having an internal bore and said riser being located within said bore, means defining a filling aperture in said handle support in the forward face thereof adjacent said filling opening for filling said reservoir, a heel rest upon which the iron may be up-ended, said filling aperture facing upwardly when the iron is up-ended so that liquid may be poured into said riser for filling said reservoir, and control means extending through said riser and terminating in a manual control for adjusting the rate of flow of liquid through said orificed member from the reservoir to the steam generating chamber.

2,587,609

IMPACT PULVERIZING APPARATUS HAVING FLUID JETS FIRING TOWARD A COMMON POINT

Andrew J. Fisher, Sparrows Point, Md.

Application June 5, 1947, Serial No. 752,694
4 Claims. (Cl. 241—39)



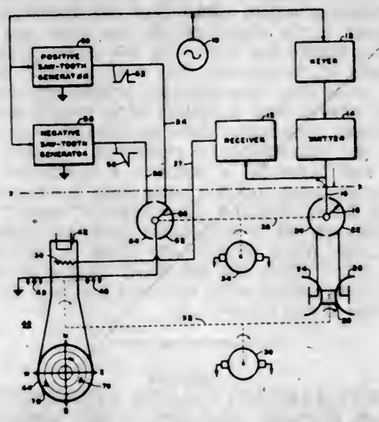
2. In a fluid-jet impact pulverizer, in combination, a chamber having a grinding zone therein, a plurality of grinding injectors in substantially planar arrangement in said grinding zone substantially focused upon a common point, an outlet in said chamber for the escape of ground material, and a further injector in said chamber directed to said common point at an angle to the plane of said first-mentioned injectors, said further injector being adapted to feed material to be ground into said chamber.

2,587,610

DIRECTIONAL RADAR SYSTEM

Benjamin Fox, Belmar, N. J., assignor to the United States of America as represented by the Secretary of War

Application March 13, 1944, Serial No. 526,304
12 Claims. (Cl. 343—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



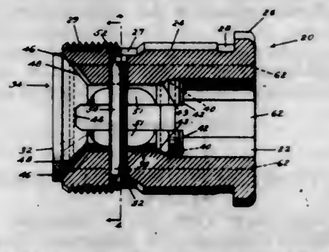
1. The method of object location which includes the steps of intermittently transmitting from a point pulses of wave energy and receiving echoes at said point from objects in the path of said transmission, generating a narrow indicating beam, using said echoes to control said beam, alternately localizing said transmission and reception along at least two sectors oppositely extending from said point, the angular width of each sector being a minor fraction of the angular spacing between said sectors, alternately displacing said beam along opposite directions in synchronism with said alternate localization, rotating in unison the effective directions of said sectors of reception, and synchronously therewith rotating said directions of beam displacement.

2,587,611

GRENADE LAUNCHER VALVE

John C. Garand, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War

Application August 14, 1946, Serial No. 690,432
2 Claims. (Cl. 251—127)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A valve mechanism for a grenade launcher, comprising a valve housing, said housing being provided with an axial bore therethrough having a conical counterbore on one end thereof, said housing being provided with oppositely disposed aligned openings which extend transversely thereof and lead into said axial bore, a valve member movably mounted in said housing, said valve member including a head portion constructed to engage said conical counterbore and a split expansible stem portion which projects from said head portion and extends into the bore of said housing, said stem portion being provided with a flattened surface, said housing and said stem portion being provided with cooperating cam surfaces arranged to resiliently urge said valve member inwardly relative to said housing and thereby yieldingly hold said head portion of said valve member on said conical counterbore of said housing, and a pin member having its opposite end portions disposed in said openings and the center portion engaging said flattened surface of said stem portion whereby movement of said valve member away from said counterbore is limited.

2,587,612

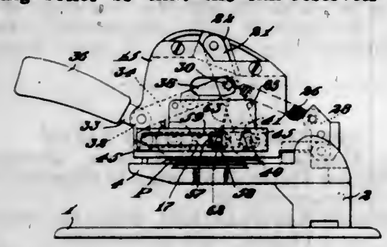
PRINTING APPARATUS

Charles H. Gilbert, Brookline, Mass., assignor to Farrington Manufacturing Company, Jamaica Plain, Boston, Mass., a corporation of Massachusetts

Application November 19, 1948, Serial No. 60,845
2 Claims. (Cl. 101—269)

2. In the art of printing machines of the type adapted to use portable printing plates having raised characters, a machine comprising two opposed members, one of the members having a seat for a printing plate and the other member having a printing roller mounted for movement back and forth between advanced and retracted positions in a path parallel to and substantially contiguous with the raised characters of said

plate for pressing against the plate a sheet interposed between said opposed members, a main spring urging said roller toward said retracted position, a porous ink-reservoir roller for applying ink to said printing roller, an auxiliary spring pressing the ink-reservoir roller against the printing roller so that the ink-reservoir roller



rolls over the periphery of the printing roller as the printing roller rolls over said sheet, and a stop for disengaging the ink-reservoir roller from the printing roller as the printing roller approaches said retracted position, said main spring being sufficiently stronger than the auxiliary spring to continue the printing roller to retracted position.

2,587,613

HIGH TEMPERATURE HIGH STRENGTH ALLOYS

Peter Payson, New York, N. Y., assignor to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey

No Drawing. Application December 2, 1948, Serial No. 63,200
6 Claims. (Cl. 75—128)

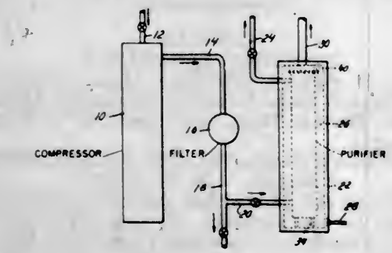
1. A forgeable, austenitic, alloy steel, characterized in having a 100-hour stress-to-rupture value at 1500° F. of at least 15,000 pounds per square inch (p. s. i.), said steel containing: about 20 to 30% nickel and about 16 to 22% chromium, the chromium content being less than the nickel content; about 3 to 15% each of tungsten and molybdenum, the combined content of these two elements being about 10 to 20%; carbon from an effective amount up to about 0.3%; manganese up to about 2%; silicon up to about 1%; vanadium up to about 3%; titanium up to about 2%; columbium up to about 1%; and the balance iron.

2,587,614.

PRODUCTION OF METAL POWDER

Henry A. Golwynne, New York, N. Y.

Application September 29, 1949, Serial No. 118,623
19 Claims. (Cl. 18—2.5)



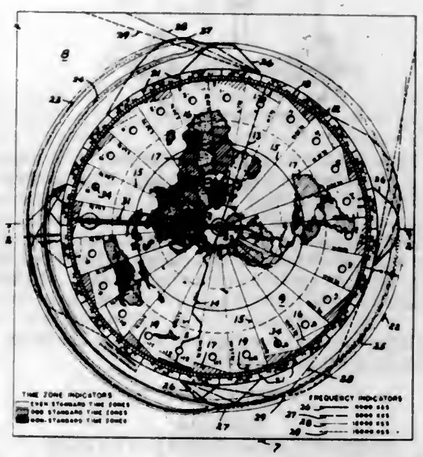
9. Apparatus for producing metal powder by atomizing a body of molten metal into very finely divided particles and freezing the particles into powder with a gas substantially inert to the metal, the main body of gas being confined in a main circulatory system under pressure higher than atmospheric to prevent ingress of outside air, the improvement comprising a purifier for removing such impurities as oxygen and nitrogen from the gas to render it practically inert to the metal, a by-pass conduit connecting the main circulatory system with the inlet of the purifier for the withdrawal of gas from the main circulatory system and its passage through the purifier, and a conduit connecting the outlet of the purifier with the main circulatory system for returning gas so purified to the main circulatory system.

2,587,615

TIME CHART

Mike Grega, Honolulu, Territory of Hawaii

Application August 14, 1946, Serial No. 690,360
11 Claims. (Cl. 35—19)



2. A radio range chart comprising a base plate providing both the designation of an ecliptic hour circle and the generally circular and a concentric representation thereon of a cross-section of a layer of the ionosphere which may influence radio transmission, a disc member of less diameter than the hour circle mounted on the base plate for rotation about the center of the hour circle and provided on its exposed face with a world map in polar azimuthal equidistant projection concentric therewith and provided with means defining the actual time zones used in the different world areas for simultaneous reference to said hour circle and layer for a point in a particular time zone, and means on the base plate for ascertaining by direct reading the range of world radio transmission at a particular sidereal time and particular radio frequency from a particular world point when the standard time zone of the point is registered with the said sidereal time indications of the hour circle.

2,587,616

ALKYLMERCAPTOALKYL PHOSPHITES

Denham Harman, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application July 13, 1948, Serial No. 38,561
7 Claims. (Cl. 260—461)

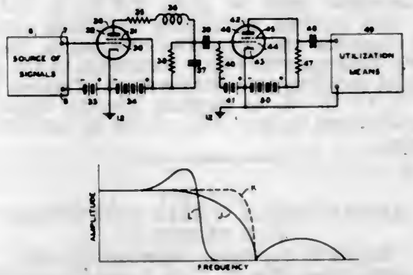
1. Bis(3-amylmercaptopropyl) phosphite.

2,587,617

DISTORTION COMPENSATING DEVICE FOR FACSIMILE EQUIPMENT

Frank A. Hester, New York, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware

Application May 29, 1947, Serial No. 751,421
4 Claims. (Cl. 178—5)



1. In a recording amplifier of a facsimile system, a source of a facsimile signal varying in amplitude in accordance with variations in graphic density, a waveform changing circuit receptive to the signal from said source and operative responsively to each change in amplitude of said signal from a first level to a second level to generate a wave extending momentarily beyond said second level and then returning to said second level, and facsimile recording means receptive to the output of the waveform changing circuit, whereby changes in graphic density are emphasized in the recording.

2,587,618

CRIBBAGE SCOREKEEPER

Robert Roy Hicks, Toronto, Ontario, Canada

Application May 19, 1950, Serial No. 162,917
In Canada May 26, 1949
4 Claims. (Cl. 235—118)



1. A score-keeping device comprising a chambered case having a top wall apertured to provide a plurality of numbered pegging holes and a sight leading to the chamber, a wheel journalled in said chamber to expose a peripheral area in said sight, said wheel bearing a circumscribing series of numbers for successively registering with said sight in rotative movement of the wheel, a pin slidably engaged in one of said pegging holes and terminating short of the upper end thereof, means restraining said pin against upward movement, and actuating means in said case for imparting a fractional turn to said wheel, said actuating means including a self returning element positioned beneath said pin and movable downwardly thereby when the pin is depressed for imparting a fractional turn to said wheel.

2,587,619

PROCESS AND APPARATUS FOR THE PRODUCTION OF SYNTHETIC THREAD

Hugo Hofmann, Elizabethton, Tenn., assignor, by mesne assignments, to Beaunit Mills, Inc., New York, N. Y., a corporation of New York

Application February 12, 1947, Serial No. 727,956
13 Claims. (Cl. 18—8)



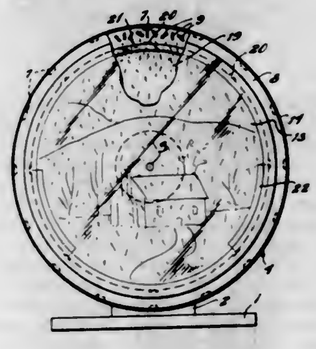
1. A process of producing synthetic thread and the like which comprises forming a plurality of threads from a spinning solution by funnel spinning, passing the freshly formed threads in parallel relationship in a continuous path slightly inclined upwardly from the horizonal through a plurality of slightly vertically offset bodies of treating liquid adjacent the respective upper surfaces thereof, thereby creating a rapid, generally concurrent flow of the liquid in the upper portions of the bodies for the distance of thread travel therethrough and effecting localized currents in the liquid bodies below the threads, each of the bodies of liquid being in restricted communication with its adjacent lower body in a plane spaced below the threads whereby the liquid in the bodies as a whole flows generally countercurrent to the movement of the threads and carries suspended impurities therewith, and then passing the parallel threads as thus treated through a heated atmosphere to effect drying thereof, the movement of the threads being effected from a point beyond the heated atmosphere in the direction of thread travel.

2,587,620

APPARATUS FOR SIMULATING A SNOWFALL

Josef Hormann, Bellaire, N. Y.

Application July 15, 1949, Serial No. 104,847
7 Claims. (Cl. 40—33)



7. In a device for simulating snow fall by means of artificial snow flakes, means for conveying artificial snow flakes from a lower zone to an upper zone of said device, a plurality of blade members secured to said conveying means, means for moving said blade members across said device, said blade members being disposed at different predetermined angles relative to a vertical plane through the longitudinal axis of said blades releasing said snow flakes over a horizontally extending area when the blades are brought into the upper zone of said device and stationary means disposed in front of said conveyor means covering up all moving parts from a front viewer of the device.

2,587,621

METHOD OF IMPROVING LUBRICANTS AND LUBRICATING OIL ADDITIVES

Everett C. Hughes, Cleveland Heights, and John D. Bartleson, East Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application March 31, 1948, Serial No. 18,296
14 Claims. (Cl. 260—139)

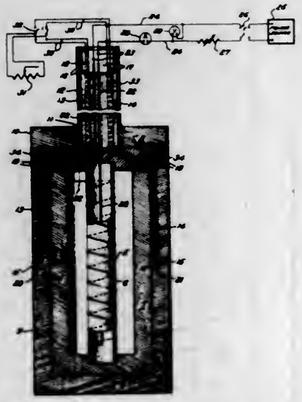
1. A method of treating the reaction product of an organic compound and a phosphorus sulfide which contains at least one material selected from the group consisting of material impairing its characteristics as an oxidation-inhibiting additive for an acid-refined mineral lubricating oil and material impairing its characteristics as a corrosion-inhibiting additive for a solvent-extracted mineral lubricating oil, to remove said impairing materials therefrom, which comprises mixing said reaction product as a substrate with a liquid material having a selective solvent power for a part of said substrate, with formation of an extract phase and a raffinate phase, separating the extract phase from the raffinate phase and recovering from the extract phase a superior mineral lubricating oil additive having improved inhibiting properties consisting of the extract.

2,587,622

METHOD AND APPARATUS FOR MEASURING HEAT FLOW DURING QUENCHING OF METALS

Leonard D. Jaffe, Cambridge, Mass.

Application June 27, 1947, Serial No. 757,658
9 Claims. (Cl. 73—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The method of determining the heat flow characteristics of the interface between a material and a surrounding medium, comprising the steps of, immersing a body formed of the material into the medium, applying heat at a known and constant temperature to the external surface of the body, and measuring the temperature difference between the external surface of the body and a point in the medium not affected by the heat flow to compute the rate of heat dissipated through the interface.

2,587,623

ACYLATION OF DEXTRAN IN FORMAMIDE

Allene R. Jeanes and Carl A. Wilham, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application January 16, 1951, Serial No. 206,286
4 Claims. (Cl. 260—234)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

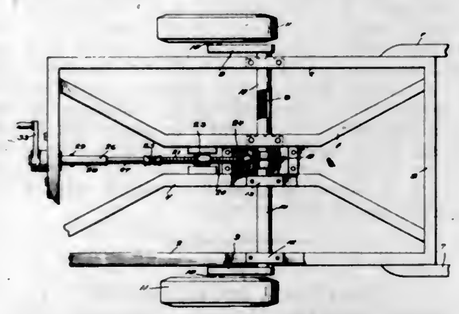
1. The method comprising dissolving dextran in formamide and thereafter acetylating the dissolved dextran with acetic anhydride in the presence of pyridine at a temperature of about from 15° C. to 30° C. to produce dextran triacetate characterized in that it is soluble in tetrachloroethane.

2,587,624

RETRACTABLE WHEEL SUSPENSION FOR VEHICLES

Harold E. Johnson, Jeffersonville, Ind.

Application May 27, 1948, Serial No. 29,610
1 Claim. (Cl. 280—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a vehicle, a frame, a torsion rod mounted transversely of the frame about midway of the length thereof and below its upper surface, torsion arms rigidly connected to the outer ends of the rod, wheels rotatably mounted on the arms, a crank arm connected to said rod approximately midway of the length of the latter, right and left hand internally threaded sleeves pivotally connected to said crank arm and frame, a shaft threaded to said sleeves, an extensible rod rotatably mounted on the frame, a universal joint betweeen said extensible rod and shaft, a handle for the shaft, and a reversible pawl and ratchet connecting the handle to the shaft for rotating the extensible rod.

2,587,625

HOLDER FOR MAGAZINE TYPE RAZORS

George Douglas Jones and Leonidas C. Miller, Los Angeles, Calif., assignors to Reelshav Corporation, Los Angeles, Calif., a corporation of California

Application June 6, 1949, Serial No. 97,338
12 Claims. (Cl. 30—40)

1. A holder for a safety razor magazine, comprising in combination a head member having a forwardly extending lip along its upper edge, a handle member supporting the head member, a guard mounted on the head member and cooperating therewith to define a pocket for a magazine, pivot means for connecting the guard to the head member, said pivot means permitting limited translatory movement of the guard toward and away from said lip, and a movable element on one of the members adapted to engage



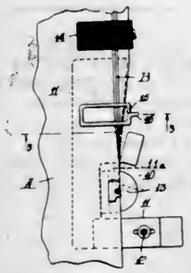
the guard to swing it in a direction to close the pocket and to move the guard toward said lip.

2,587,626

SEAM OPENING ATTACHMENT

Julius Katz, New York, and Frank P. Majoros, Brooklyn, N. Y., assignors to Superba Manufacturing Co., Inc., New York, N. Y., a corporation of New York

Application September 15, 1945, Serial No. 616,610
1 Claim. (Cl. 112—217)



A seam opening device for material traversing a seam forming mechanism, including a guide plate and drawing means for said material, the said guide plate having a cut-out formed in one portion thereof to receive the seam forming means, said guide plate having an offset edge over which said material is passed to raise the edges of superposed plies of seamed material upon the upper surface of said plate, and a presser shoe mounted over said plate and between said offset edge and said drawing means to flatten the seam as it is drawn forward.

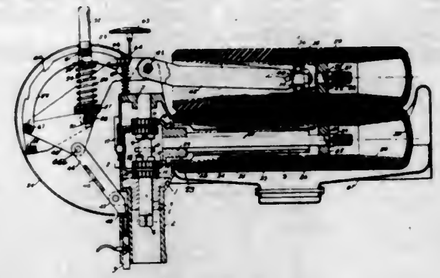
2,587,627

WRINGER

Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application December 26, 1944, Serial No. 569,769
11 Claims. (Cl. 68—249)

2. In a wringer, a frame, a roll, a pressure member for said roll, a toggle comprising links pivoted to each other and respectively to said frame and to said member and arranged to apply pressure as the links approach an in line position, a pressure link pivoted on the roll pressure member at a point spaced from the end of one of the toggle links and swingable between a position extending along said one toggle link to a position transverse to said one toggle link, and a spring arranged between the pressure link and said one of the toggle links and constrained to pivot with the pressure link whereby the angular position of the pressure link changes the pressure moment exerted on the toggle link.



2,587,628

LOAD STROKE INDICATOR

Harold B. King, Dayton, Ohio

Application January 24, 1949, Serial No. 72,465
2 Claims. (Cl. 73—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



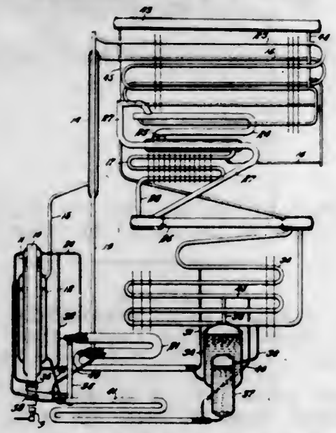
1. A device for plotting the load-stroke curve of a yieldable load carrying structure such as an aircraft landing gear, said device comprising a cathode-ray tube, means comprising a strain gauge mounted on said structure for producing a voltage proportional to the load on said structure, means for applying said load proportional voltage to the vertical beam deflecting means of said cathode-ray tube, a potentiometer having a uniform resistance element and a contact movable therealong, means for mounting said resistance element and said movable contact on parts of said structure having relative movement therebetween due to yielding of said structure, means for applying a direct voltage across said resistance element whereby a voltage is developed at said movable contact that is proportional to the degree of yield of said structure, means for applying a voltage proportional to said last named voltage to the horizontal beam deflecting means of said cathode-ray tube, a beam intensity control electrode in said cathode-ray tube, means for applying a negative bias to said electrode, an oscillator, means for applying the alternating voltage generated by said oscillator to said electrode, the values of said bias voltage and said alternating voltage being such that the beam of said cathode-ray tube is turned on for a portion of each cycle of said alternating voltage.

2,587,629

ABSORPTION REFRIGERATION

Wilhelm Georg Kögel, Stockholm, Sweden, assignor to Aktiebolaget Elektrolux, Stockholm, Sweden, a corporation of Sweden

Application December 15, 1944, Serial No. 568,270
In Sweden August 3, 1944
13 Claims. (Cl. 62—119.5)



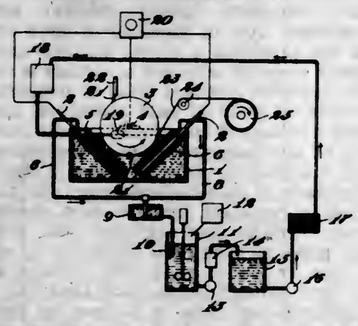
1. A refrigeration system utilizing an inert pressure equalizing gas, a refrigerant fluid, and liquid absorbent, said system comprising a circuit for inert gas including a plurality of evaporator sections and a plurality of absorber sections arranged in this circuit for flow of gas therethrough in series, a plurality of separate circuits for the absorption liquid, each including one of said absorber sections and a boiler in each of which the same refrigerant fluid is expelled from solution in the absorbent liquid, a plurality of refrigerant liquefiers, each connected to receive vapor from a respective boiler and deliver liquid to one of said evaporator sections, and means for heating said boilers to respectively different temperatures to supply to said absorber sections absorption liquid having respectively different concentrations of the same refrigerant fluid.

2,587,630

METHOD FOR ELECTRODEPOSITION OF IRON IN THE FORM OF CONTINUOUS STRIPS

Erich H. Konrad, Shelburne, and William E. C. Eustis, Burlington, Vt., assignors to Sulphide Ore Process Company, Inc., New York, N. Y., a corporation of Delaware

Application July 28, 1949, Serial No. 107,334
3 Claims. (Cl. 204—13)



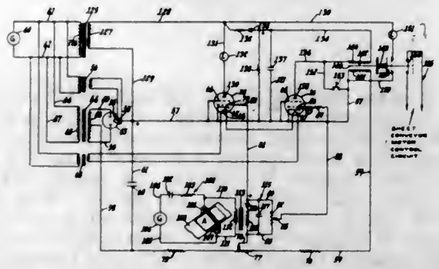
1. Method of converting sulphide ores of iron into a continuous strip of metallic iron, which comprises the steps of providing an electrolytic cell comprising a cylindrical cathode having a substantially continuous electrically conductive cathode surface formed of particles of colloidal graphite, an insoluble anode enclosed in a porous diaphragm and an electrolyte therein comprising a catholyte containing a ferrous salt, substantially free from ferric salts, and an anolyte, containing a ferric salt, the anode being in opposed relation to the submerged portion of the cathode in the electrolyte bath, setting up an electric potential between the cathode and the anode, thereby to effect a preliminary deposit of electrolytic iron upon the cathode surface, then rotating the cathode surface continuously into, through and out of the catholyte, to thereby effect electrodeposition of ductile metallic iron upon the cathode surface in the form of a continuous integral strip, simultaneously withdrawing the anolyte from within the diaphragm adjacent the anode, contacting the anolyte with the sulphide ore of iron, thereby to reduce the anolyte to the ferrous condition and replenish the ferrous iron content and cycling the resulting solution into the catholyte, continuously separating the metallic iron from the cathode, as a continuous strip and continuously applying a coating of colloidal graphite to the cylindrical cathode surface as the same is exposed out of the bath.

2,587,631

APPARATUS FOR MEASURING AND DETECTING MAGNETIC OBJECTS

Herbert A. Kuehne, Maywood, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application May 21, 1948, Serial No. 28,423
3 Claims. (Cl. 175—183)



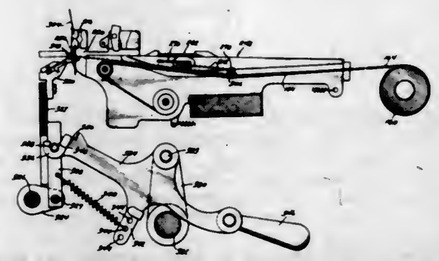
3. An apparatus for measuring the thickness of magnetic stock, comprising a series resonant circuit, a first thyratron tube and a second thyratron tube associated with said resonant circuit, measuring means including an open inductor coil in said resonant circuit for supplying to both of said thyratron tubes a signal voltage the magnitude of which varies in accordance with variations in the thickness of the stock, means for conveying said stock directly through said open inductor coil, a control potentiometer for adjusting the basic grid biases on both of said thyratron tubes, a differential potentiometer for further adjusting the grid bias on said second thyratron tube so that the latter conducts only in response to a greater signal voltage than is required to cause said first thyratron tube to conduct, a conveyor circuit having a conveyor control switch connected therewith for stopping and starting said conveyor, an indicator circuit having an indicating device and an indicator switch connected in series therein, a control relay having a first and a second winding and an armature united with said switches, said armature being mechanically biased to maintain said conveyor control switch open and said indicator switch closed, said first winding being energized continuously for biasing said control armature in opposition to said mechanical bias for maintaining said indicator switch open and said conveyor control switch closed while current is being supplied to the apparatus, said second winding being connected in series in the exterior anode to cathode circuit of said second thyratron tube whereby, upon conduction in said second tube, said second winding is energized for neutralizing the effect of said first winding so that the mechanical bias of said armature opens said conveyor control switch and closes said indicator switch for stopping said conveyor and for energizing said indicating device when over-thick stock is present in said inductor coil.

2,587,632

STRAIGHT BAR KNITTING MACHINE AND A METHOD FOR OPERATING SAME

Fritz Lambach, Tenafly, N. J., assignor to Robert Reiner, Inc., Weehawken, N. J.

Application October 22, 1948, Serial No. 55,896
19 Claims. (Cl. 66—109)



1. A straight bar knitting machine comprising: a knocking-over bar carrying a series of knocking-over bits, knocking-over bar driving means including a linkage having a plurality of members joined to each other by pivotal connections, one of said members of said knocking-over bar driving means carrying said knocking-over bar so as to impart movements in various directions to the latter during an operation of the machine, one of said pivotal connections of said knocking-over bar driving means being disengageable, and setting means associated with said knocking-over bar driving means for engaging and disengaging said disengageable pivotal connection whereby upon a disengagement of said pivotal connection during a standstill of the machine the member of said knocking-over bar driving means carrying said knocking-over bar may be brought into an advanced position, said setting means being arranged outside said linkage of the knocking-over bar driving means.

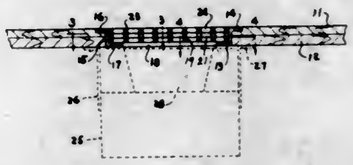
2,587,633

HOT-AIR REGISTER

Bayre Levin, Detroit, Mich.

Application January 5, 1950, Serial No. 136,899
4 Claims. (Cl. 98—114)

1. In a hot air register for a floor having an opening in communication with a hot air source, a hollow frame in said opening, a peripheral flange around the upper portion of said frame supportably engageable with said floor, an inwardly projecting flange within the lower portion of said frame, a perforated plate constructed of a heat-insulating substance positioned within



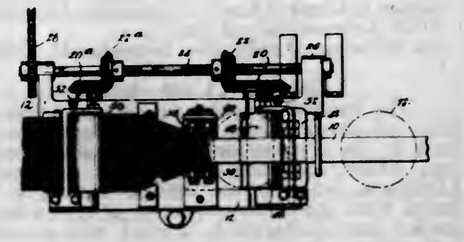
said frame and supported upon said inwardly projecting flange, and a similarly perforated metallic grill positioned within said frame and supported upon said plate.

2,587,634

APPARATUS FOR SPLITTING RUBBER THREAD

Samuel Clark Lilley, Easthampton, Mass., assignor to Easthampton Rubber Thread Co., Easthampton, Mass., a corporation of Massachusetts

Application February 17, 1950, Serial No. 144,701
6 Claims. (Cl. 164—84.5)



1. A machine for splitting rubber thread tape including apparatus for acting on a tape composed of rubber threads adhesively but separably united to each other, side by side, to split said tape into its component threads, adjustable roll means for feeding the tape to said apparatus, means for guiding the separated threads away from the apparatus, mechanism for driving both the feeding means and the guiding means at such speeds as to maintain the tape and said threads stretched as they pass through the splitting apparatus, the feeding means comprising an upper and a lower roll, a roll supporting bracket arranged to move the upper roll forwardly and rearwardly through a dead center position with respect to the pivot of the bracket, and spring means arranged and secured to swing through the dead center and resiliently hold the upper roll.

2,587,635

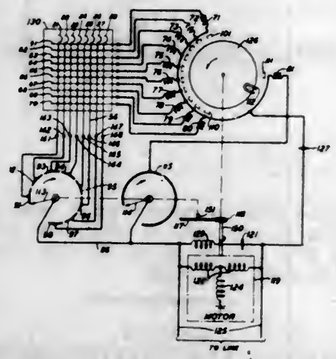
SPACED-PULSE IMPULSE SENDER

Clarence A. Lovell, Summit, and David B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 29, 1948, Serial No. 35,926
20 Claims. (Cl. 179—90)

1. A signaling apparatus comprising an electric line, a magnet, a plurality of coils, apparatus for rotating said magnet past said coils for successively inducing voltages in said coils, and circuit closing devices for selectively connecting

two of said coils to said line during predetermined revolutions of said magnet for applying the voltages induced in said two coils to said line.



2,587,636

METHOD OF MAKING ALKALI METAL SALTS OF ORGANOSILOXANOLS AND ORGANOSILANETRIOLS

Clinton W. MacMullen, Fayetteville, N. Y., assignor to Cowles Chemical Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application December 31, 1948, Serial No. 68,750
7 Claims. (Cl. 260—448.2)

1. The method of making a surface active organo-silicon-containing reagent adapted to be used in the preparation of organo-silicon coatings which comprises causing an organo-trihalosilane, wherein the organo radical is selected from the group consisting of aryl, alkaryl, aralkyl and alkylaralkyl, to react with an aqueous solution of an alkali metal hydroxide containing at least six equivalents of said hydroxide per mole of trihalosilane to form a water-soluble hydrolysis product of said trihalosilane.

2,587,637

DETERGENT COMPOSITION

Louis McDonald, Inyokern, Calif.

No Drawing. Application December 18, 1947, Serial No. 792,617
4 Claims. (Cl. 252—130)

4. A solid detergent composition formed of a sodium soap of a high molecular weight fatty acid and about 0.1% to 5% by weight of a water-insoluble ethyl cellulose to retard ready solution of said soap and an emulsifying agent consisting of a partial high molecular weight fatty acid ester of a polyhydric aliphatic alcohol in an amount sufficient to emulsify said ethyl cellulose into the soap.

2,587,638

AUTOMATIC FEED FOR CABLE TOOL DRILL

Johann H. Meier, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application September 27, 1945, Serial No. 618,843
12 Claims. (Cl. 255—15)

1. In an automatic feed for a cable-tool drill, which drill includes a main frame, a percussion bit, a line operatively supporting the bit, a yieldable member on the main frame supporting the line, a winch-drum on the main frame operatively connected to the line whereby to wind up and pay out said line, and spudding means on the main frame operatively connected to the line whereby to actuate said line to raise and drop the bit; the combination, supportable on the main frame, of: a motor; such drive-connection between the motor and the winch-drum as to cause the motor, whenever running, to drive the winch-drum slowly to pay out line; at least one power-source; a normally-open switch; electrically-actuable means for closing said switch; an operative connection between the yieldable member and the normally-open switch, actuable by and during the yielding of said member beyond a predetermined amount to close said switch; a normally-closed switch; a shiftable member, operatively associated with the normally-closed switch in such manner as to open said normally-closed switch as soon as said member has shifted a predetermined amount; an electrically actuable clutch to operatively connect the motor to the shiftable member, to shift said member; an electric circuit from an electric power source through the normally-closed switch and the normally-open switch in series relation, to the electric closing means for said normally-open switch, whereby when this circuit has been closed by the closing of the normally-opened switch, the electric closing means will maintain it closed until the normally-closed switch opens; an electric circuit from an electric power-source, through the normally-open switch, to the motor; an electric circuit from an electric power source, through the normally-open switch, to the clutch; and means to restore the shiftable member to its original position whenever the clutch is released.



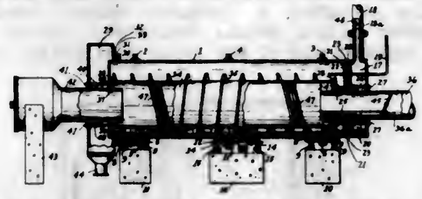
2,587,639

ROTARY KILN FOR THE RECOVERY OF ACID VALUES

Hunter Miley, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware

Application August 12, 1947, Serial No. 768,112
8 Claims. (Cl. 23—279)

1. In a rotary kiln of the horizontally disposed type for the recovery of acid values from sulfuric acid sludges and having a rotatable kiln shell, a gas take-off from and sludge feed into said shell, the improvement which comprises a substantially hollow roller substantially loosely positioned within said shell, a helix provided on the circumference of said roller, said roller resting with said helix on the inner surface of said shell and being substantially confined against appreciable longitudinal movement and the interior of said roller being substantially closed against the interior of said shell, and means for passing a heating gas through said roller in heat exchange relation therewith.

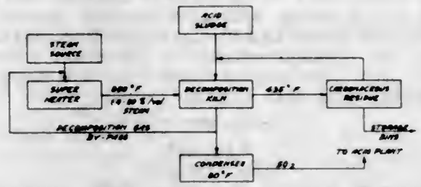


2,587,640

RECOVERY OF ACID VALUES FROM PETROLEUM REFINING SULFURIC ACID SLUDGES

Hunter Miley, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware

Application August 12, 1947, Serial No. 768,113
10 Claims. (Cl. 23—177)



1. Method for the recovery of acid values from petroleum refining sulfuric acid sludges which comprises substantially continuously passing a stream of acid sludge into a decomposition zone, substantially continuously passing a superheated gas into said zone in heat exchange relation with said sludge said gas containing at least 75% by volume of steam and being heated to a temperature in excess of 500° F., substantially maintaining said temperature sufficiently high and the contact between said sludge and said gas for a period sufficient to substantially coke the major portion of the hydrocarbon material in said sludge, substantially continuously removing coked material from said zone, substantially continuously removing gaseous decomposition products from said zone, substantially continuously subjecting said gaseous decomposition products to water condensation and substantially continuously recovering SO_2 gas of high purity.

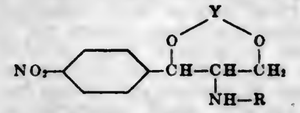
2,587,641

1-p-NITROPHENYL-2-DIHALOACETAMIDO-PROPANE-1,3-DIOL CYCLIC CARBONATE AND SULFITE

George W. Moersch and Allen C. Moore, Detroit, Mich., assignors to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan

No Drawing. Application May 25, 1950, Serial No. 164,298
6 Claims. (Cl. 260—327)

1. A compound of the class consisting of the (dl)-ψ and (l)-ψ forms of a compound of the formula,



where R is a halogenated acetyl radical and Y is a member of the class consisting of —SO— and —CO— groups.

2,587,642

LUBRICANTS AND ADDITIVES FOR LUBRICATING OILS AND GREASES

John M. Musselman, South Euclid, and Herman P. Lankelma, Shaker Heights, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application February 3, 1948, Serial No. 6,024
8 Claims. (Cl. 252—48.6)

1. Mineral lubricating oils and greases which contain an amount to inhibit their deterioration in use of the reaction product of an unsubstituted fatty acid containing from about 12 to about 18 carbon atoms and having an iodine value of not over 70, reacted with about 20% to about 35% of a phosphorus sulfide selected from the group consisting of P_2S_5 and P_4S_3 at about 300° F. for about one hour, said reaction product containing a sulfur-to-phosphorus ratio higher than that of a thiophosphate and being suitable to inhibit the deterioration of lubricating oils and greases in use.

2,587,643

DEASPHALTING MIXTURES OF HYDROCARBONS

Harold C. Myers, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application August 27, 1947, Serial No. 770,952
10 Claims. (Cl. 196—14.46)

1. A method of producing a greater yield of deasphalted oil of given quality as measured by a required Conradson carbon residue of about 0.4 to about 6 weight per cent than can be obtained by conventional solvent deasphalting which comprises contacting a fluid charge stock containing asphaltic material with a mixed deasphalting agent consisting essentially of about 1 to about 20 volume per cent of an organic carbonate and the balance major deasphalting agent, deasphalting said charge stock at a deasphalting temperature above that temperature at which paraffin wax is substantially insoluble in said mixture of charge stock and mixed deasphalting agent to about 206° F. and the nearer the required Conradson carbon residue is to 0.4 weight per cent the higher the deasphalting temperature in the presence of a given concentration of said organic carbonate, and separating a deasphalted oil having said required Conradson carbon residue in greater yield than can be obtained when deasphalting said charge stock to said required Conradson carbon residue using said major deasphalting agent as the sole deasphalting agent.

2,587,644

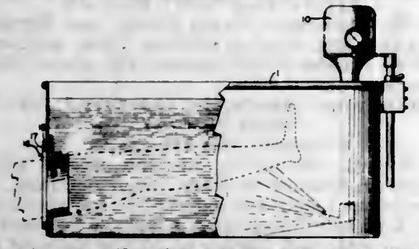
HYDROTHERAPY TANK

Louis B. Newman, Chicago, Ill.

Application July 1, 1946, Serial No. 680,682
4 Claims. (Cl. 128—370)

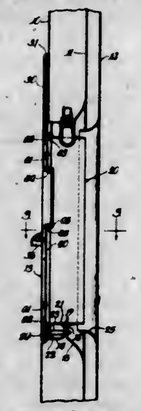
1. A hydrotherapy tank comprising an open top water receptacle having an opening for receiving a limb to be extended into the receptacle through the opening in a generally horizontal direction, yielding means for sealing the space between the limb and the periphery of the opening against water leakage, said yielding means comprising a water-proof flexible sleeve sealed around the periphery of the opening and open at both ends to permit insertion of a limb from the outside of the tank through the sleeve into contact with the ambient medium within the tank, said sleeve extending from the opening in a direction in-

wardly of the tank so that the pressure of the water in the tank presses on the outside of the



sleeve to press the sleeve into sealing relationship to a limb inserted therethrough, and means for subjecting a limb in the tank to hydrotherapy.

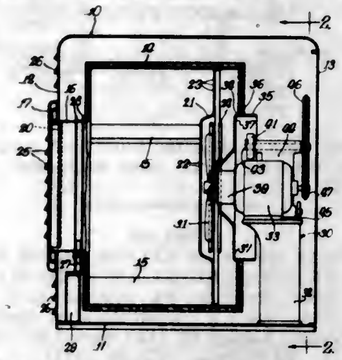
2,587,645
LAUNDRY DRIER
Charles S. O'Neil, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application May 9, 1946, Serial No. 668,488
1 Claim. (Cl. 220—46)



A laundry dryer comprising a casing structure including a wall having a circular opening for the insertion and withdrawal of laundry, a flange member comprising a portion extending inwardly through said opening and a planar flange portion extending radially outwardly and secured to said wall and forming a closure seat, and a rectangular door for closing said opening comprising an outer plate of substantially greater area than said opening and extending over the outer face of said wall and hinged thereto, an inner plate substantially coextensive in area with said opening and secured to said outer plate and having its edge turned toward said outer plate, and a sealing member having a body portion clamped between said turned edge of the inner plate and the face of the outer plate and including a flexible lip extending normally outwardly and at an angle to the inner plate and having a flat inner surface which in operative position with the door closed engages said closure seat for effecting a substantially airtight seal.

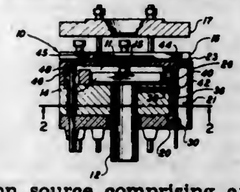
2,587,646
DRIER
Charles S. O'Neil, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application December 12, 1946, Serial No. 715,859
22 Claims. (Cl. 34—133)

1. A laundry dryer comprising a casing, a rotatable drum in said casing for tumbling the laundry during drying, supporting means for one end of the drum, and a drive unit in said casing including a rotatably driven annular member having means detachably secured to the opposite end of the drum, said driving unit



also including a rotatable drive member supporting and coacting with said annular member to drive said drum, and means supporting said drive unit for removal axially of the drum whereby said drive unit may be freed from said drum for removal from said casing.

2,587,647
ION SOURCE
Gordon W. Pallette, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application July 24, 1948, Serial No. 40,481
11 Claims. (Cl. 250—41.9)

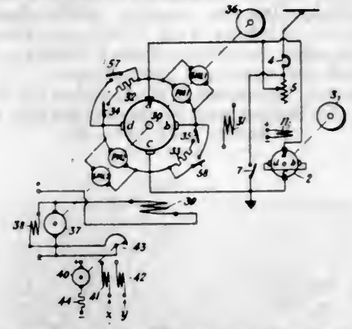


1. In an ion source comprising an ionization chamber and a source of electrons, the improvement which comprises a recess in a wall of the ion source, mounting means for the electron source, said mounting means including a member positioned and shaped to fit within said recess to fix the location of said mounting means with respect to the ion source, and means for affixing said member in said recess.

2,587,648
ELECTRIC POWER SYSTEM
Joseph Maximus Pestarini, Staten Island, N. Y.
Application December 20, 1946, Serial No. 717,505
In Great Britain September 25, 1946
6 Claims. (Cl. 171—123)

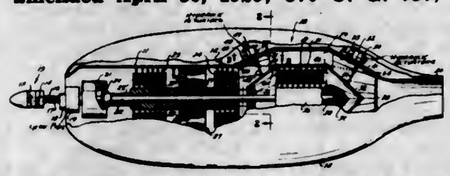
1. An electric power system comprising motors having accelerating and decelerating periods, a dynamoelectric machine including an armature associated with a commutator having a plurality of brushes and a stator winding, a direct current source and rotatable variable speed electric machines, means for connecting said motors to selected pairs of said brushes, means for connecting said current source to a selected pair of brushes and means for connecting said variable speed machines to selected pairs of brushes, said pairs of brushes being displaced relative to each other whereby the flux created by currents of said motors traversing

the armature of said dynamoelectric machine and the resultant flux created by the currents of said variable speed machines and said current



source traversing the armature of said dynamoelectric machine form an electrical angle of substantially 90°.

2,587,649
SELECTIVE TURBOPROPELLER JET POWER PLANT FOR AIRCRAFT
Francis Pope, Bayside, N. Y.
Application October 18, 1946, Serial No. 703,981
8 Claims. (Cl. 60—35.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a power plant, a central drive shaft and, arranged thereon in the order named, a propeller, a reduction gear for said propeller, an air compressor, a first turbine to drive said compressor and a second turbine to drive said propeller, a shell enclosing the foregoing elements except the propeller, a plurality of combustion chambers arranged about said drive shaft but not rotatable therewith, between the air compressor and the first turbine, at least one fuel-feeding nozzle in each of said combustion chambers, said shell having an expanded portion defining an annular passage about said second turbine whereby to provide a bypass for exhaust gases from said first turbine around said second turbine and valve means surrounding said circular drive shaft within said shell for selectively directing substantially the entire output of the exhaust gases from said first turbine either through or around said second turbine, and a jet pipe from which said exhaust gases may vent to the atmosphere directly from said first turbine.

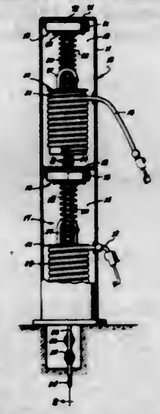
2,587,650
METHOD FOR DEFATTING STARCH
Carl E. Rist, Howard A. Davis, and Ivan A. Wolff, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application July 25, 1950, Serial No. 175,848
10 Claims. (Cl. 127—71)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The process which comprises extracting fatty acids from starches containing the same with a hydrophilic fatty acid solvent at a temperature within the range of 105°–125° C. and at a gauge pressure within the range of 1 to 6 atmospheres.

2,587,651
METHOD AND MEANS FOR THE ELECTRODEPOSITION OF CHROMIUM
Floricel A. Rojas, New York, N. Y.
No Drawing. Application December 22, 1945, Serial No. 637,122
20 Claims. (Cl. 204—51)

1. A composition for use in a bath for the electrodeposition of chromium comprising the interacted mixture of (1) the aqueous reaction product of 400 grams of chromic anhydride, 41. to 287.5 grams of crystalline zinc sulphate, 12 to 81.4 grams of zinc oxide, and sufficient water to dissolve the ingredients and permit their reaction, and (2) of 600 grams of chromic anhydride, 28 to 197.4 grams of barium carbonate, up to about 81.4 grams of zinc oxide, and sufficient water to suspend the ingredients and permit their reaction, the proportions of sulphate radical and barium radical being substantially equivalent.

2,587,652
BRAKING MECHANISM FOR HOSE REELING APPARATUS
Carl A. Rostine, Gardena, Calif., assignor, by mesne assignments, to John Wood Manufacturing Company, Inc., New York, N. Y., a corporation of Delaware
Application May 14, 1949, Serial No. 93,373
14 Claims. (Cl. 242—86)

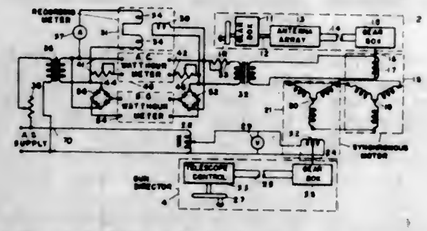


8. A reeling mechanism comprising a winding drum, a shaft having a threaded portion and mounting the drum by virtue of said threaded portion for rotational and axial movements, means for exerting against the drum a force for imparting rotational and axial movements thereto, and a brake disposed about said shaft and operating to restrain rotational and axial movements of the drum by said means.

2,587,653
ANGLE COMPARATOR
John Ruse, Asbury Park, N. J.
Application February 12, 1943, Serial No. 475,680
3 Claims. (Cl. 343—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a system for producing a continuous record of the tracking error of a radio object-

locating system, a first synchronous motor having a first stator and a first rotor, a gun director having an optical system to provide absolute tracking data, said optical system being mechanically connected to said first rotor a second synchronous motor having a second stator and a second rotor, an antenna electrically connected to said radio system, and mechanically connected to said second rotor, a source of alternating current connected to said first rotor, electrical connections between said stators whereby said first motor is capable of transferring electrically the angular position of said optical system to said second motor, and a multicoil meter having one of its coils connected to said second rotor, and the other coils to said source of alternating current, whereby said meter is capable of producing said continuous record of said tracking error of said radio system.

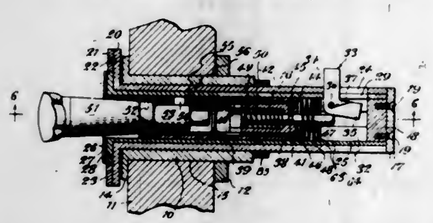


2,587,654

ATTACK DEFEATING COMBINATION LOCK

Francis W. Sammons, White Plains, N. Y.

Application November 26, 1947, Serial No. 788,290
10 Claims. (Cl. 70—1.7)



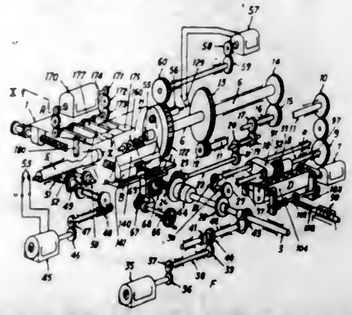
9. In a lock, the combination of a lock bolt for releasing a door carrying said lock, a handle for operating said bolt, said handle having a key hole therein, a mechanism incorporated between said bolt and said handle, said mechanism transmitting the mechanical movement of said handle to said bolt, said mechanism including two sets of interengaging elements, said interengaging elements of each set being relatively movable to each other and constructed to firmly engage each other for normal engagement and thereby assisting in moving said bolt upon the movement of said handle, a dial means associated with said handle and being movable therewith and in relation to a permanently held dial on the front of said lock for setting a predetermined combination for operating said lock without a key, automatic means for turning said dial means which is associated with said handle from its set position as said handle is released, one set of said interengaging elements becoming disengaged when said lock has been tampered with unauthorizably and thereby destroying the said transmitting function of said mechanism, and a key operating through said handle for resetting said last mentioned elements for placing said lock in operable condition.

2,587,655

MACHINE FOR MANUFACTURING MATCH SPLINTS

Oskar Schnellmann, Zurich, Switzerland, assignor to Machine Tool Works Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland, a company of Switzerland

Application November 7, 1945, Serial No. 627,231
In Switzerland November 8, 1944
7 Claims. (Cl. 144—50)



1. In a machine for manufacturing match splints and having a headstock and a headstock spindle and a slide on one side of the wood cylinder to be peeled, cutting knives arranged on said slide for forming incisions in the wood cylinder in an axial direction and at distances apart from one another corresponding to the thickness of the match splint, a second slide on the opposite side of the wood cylinder to be peeled, cutting discs mounted on such second slide for forming incisions in the wood cylinder in a circumferential direction and at distances apart from one another corresponding to the length of the match splint, and a peeling knife for peeling off the pre-cut peripheral layer from the cylinder in the required thickness, so that the splints drop down separately, the combination of a constant-speed motor, a stepped gear wheel mechanism and a speed change gear driven by the motor for rotating the headstock-spindle, said change speed gear determining the required cutting speed and the stepped gear wheel mechanism operating to maintain a constant circumferential speed with decreasing diameter of the wood cylinder by gradually increasing the speed of rotation of such cylinder; a threaded spindle controlling the feed of the peeling knife; a change gear arranged to transmit the rotation of the headstock spindle to said threaded spindle; intermediate gearing whereby said threaded spindle effects at the same time the speed change of the stepped gear wheel mechanism; drivers on the headstock for engaging the centre of the wood cylinder, additional movably mounted drivers engaging the cylinder eccentrically, means for moving said additional drivers out of engagement with the cylinder and means for reciprocating the peeling knife axially with respect to the wood cylinder, said cutting knives being mounted so as to follow the rotation of the wood cylinder in the course of the cutting process.

2,587,656

METHOD OF RECOVERING MAGNESIA

Robert A. Schoenlaub, Cleveland, Ohio, assignor to Sylvester & Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application April 23, 1947, Serial No. 743,473
12 Claims. (Cl. 23—201)

1. In a process of the character described, firing at a temperature at least 2800° F. magnesia-containing mineral material and added material which provides a compound selected from the group consisting of calcium oxide, silica and mixtures thereof in sufficient amount to make a $CaO:SiO_2$ ratio of 2:1 and forming crystalline magnesia in a substantial proportion of dicalcium silicate, disrupting the mass by cooling and expansion of the dicalcium silicate, and separating the magnesia from the disrupted dicalcium silicate.

2,587,657

EMULSION COATING COMPOSITIONS AND PROCESS FOR PREPARING SAME

Edward Schulte and Philip C. Herzog, Cleveland, Ohio, assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application January 20, 1950, Serial No. 139,783
19 Claims. (Cl. 106—236)

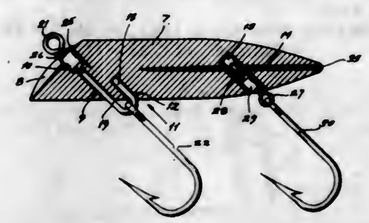
1. A process for preparing a stabilized alkaline emulsion coating composition which comprises the steps of: dispersing a water-resistant film-forming material of resinous nature capable of forming a film with a specular gloss of at least about 40 in water in the presence of a small amount by weight of the film-forming material of at least one substantially neutral reaction product of a fatty acid having between 12 and 20 carbon atoms with an organic hydroxy amine; incorporating in the emulsion so formed at least enough alkali-soluble proteinaceous colloidally-dispersed material to make the emulsion brushable but not more than about 16.7% by weight of the film-forming material; and incorporating in the emulsion an organic hydroxy amine having an orientable molecular configuration of lyophilic and hydrophilic groups in a total quantity sufficient (*a*) to form said neutral reaction product, (*b*) to neutralize at least in part any available acidity of said film-forming material to a degree sufficient to enable the free amine referred to below to develop a stable alkalinity in said emulsion at a pH above about 8.3, (c) to supply any quantity of hydroxy amine needed to disperse said proteinaceous colloidal material, and (*d*) to supply a small quantity of free orientable hydroxy amine; at least a part of said free amine being introduced in the emulsion at a time not later than that at which the proteinaceous colloid is introduced.

2,587,658

FISHING PLUG

Wallace A. Sleness, Seattle, Wash.

Application March 14, 1949, Serial No. 81,331
2 Claims. (Cl. 43—42.08)



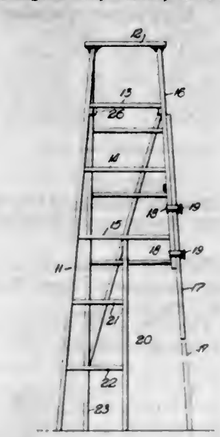
1. A fishing plug comprising an elongated body having an inclined nose portion and having a plurality of recesses in said body, said recesses comprising a first tubular recess extending from said nose portion angularly downwardly toward and to the underside of said body, and a second and shorter tubular recess extending from the underside of said body inwardly of and terminating within said body, said first and second recesses being substantially parallel; a U-shaped pin having a threaded long leg, and a substantially parallel short leg, the long leg being positioned in said first tubular recess, the short leg being positioned in said second tubular recess, and the loop of said U-shaped pin being positioned external of the body at the belly side and functioning as fish hook engaging means; leader eye means threadedly engaged with said long leg and positioned against an upper portion of said body and urging said short leg longitudinally in said second tubular recess and against a portion of said body; and locking means preventing rotary movement of said leader eye means on said long leg and engaging said leader eye means and said body.

2,587,659

ADJUSTABLE OFFSET LADDER

William C. Smith, Brentwood, Md.

Application December 9, 1949, Serial No. 132,184
2 Claims. (Cl. 228—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A step ladder of the class described including a front retractible leg, a companion front non-retractible leg, a secondary leg intermediate of said front outer legs, a plurality of steps connecting said secondary leg and said non-retractible leg below the highest position of said retractible leg and a rear bracing member comprising a retractible leg in alignment with said front retractible leg and a companion non-retractible leg.

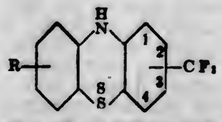
2,587,660

TRIFLUOROMETHYL PHENOTHIAZINE

Nathan L. Smith, Indian Head, Md.

No Drawing. Application October 30, 1950, Serial No. 193,613
3 Claims. (Cl. 260—243)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

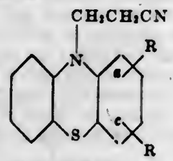
1. A trifluoromethyl phenothiazine of the general formula:



wherein R is a radical selected from the group consisting of hydrogen and alkyl radicals.

2,587,661
BENZOPHENOTHIAZINE NITRILES
Nathan L. Smith, Indian Head, Md.
No Drawing. Application October 30, 1950, Serial No. 193,016
3 Claims. (Cl. 260—243)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A benzophenothiazine mono-propionitrile of the general formula:

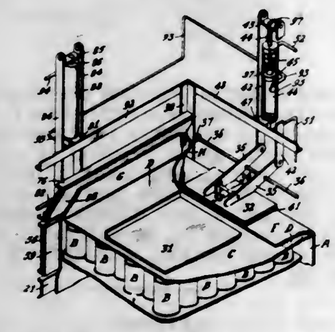


wherein one of the radicals R is hydrogen and the other is the benzo group in one of the fused positions *a* and *c*.

2,587,662
3-ISOPROPOXY PHENOTHIAZINE
Nathan L. Smith, Indian Head, Md.
No Drawing. Application October 30, 1950, Serial No. 193,019
1 Claim. (Cl. 260—243)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

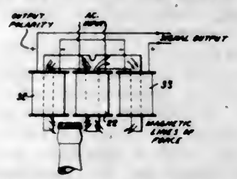
As a new compound, 3-isopropoxy phenothiazine.

2,587,663
SEALING HEAD MECHANISM FOR CLOSING AND SEALING BAGS AND FLEXIBLE CONTAINERS
John E. Socke, Pelham Manor, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application April 29, 1948, Serial No. 23,927
11 Claims. (Cl. 53—102)



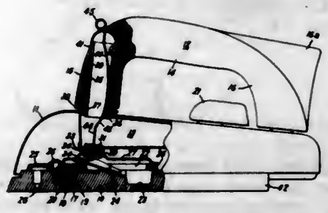
1. In a mechanism for folding an open end of a substantially rectangular bag or other container filled with articles and for sealing the end of the bag against a closure member overlying said articles, the combination of a rectangular sealing head frame for surrounding the open end of a filled bag to be sealed, opposed flat side folding elements pivotally carried on two sides of said frame for folding-in adjacent marginal edge portions of the open end of the bag, opposed flat auxiliary side folding elements pivotally carried on the intermediate sides of said frame for folding-in the other opposed marginal edges of the bag, means for first simultaneously pivoting both of said side folding elements inwardly to fold the engaged marginal edges of the bag against said inserted closure member, and means for subsequently simultaneously pivoting both of said auxiliary elements inwardly to fold the other marginal edges of the bag against the closure member, said auxiliary folding elements when in folded position extending beyond the two ends of each positioned side folding element and in close abutting relation to substantially surround and hold the peripheral folded margins of the bag for sealing.

2,587,664
PRESENCE OF CROWN DETECTORS
George Philip Stout, Baltimore, Md.
Application September 26, 1947, Serial No. 776,369
4 Claims. (Cl. 250—27)



1. Apparatus for testing the mouths of containers to determine the presence of a closure having content of magnetic material comprising, in combination: transformer means including a core positioned to permit passage adjacent thereto of the mouths of containers to be tested for the presence of a closure, a primary winding energized from an associated power source, and a secondary winding associated therewith; a switch closed when a container is in testing position; and a network connected to said secondary winding through said switch, including: a normally non-conducting vacuum tube controlling, when conducting, a subsidiary circuit, and a bias resistor for said tube energized from said associated power source, the voltage in said secondary winding being balanced in said network against a voltage derived from said bias resistor to maintain said tube non-conducting when a capped container passes adjacent to said transformer core and being unbalanced in said network against a voltage derived from said resistor when an uncapped container passes adjacent to said transformer core to render said tube conducting and control said subsidiary circuit.

2,587,665
STEAM IRON WATER RESERVOIR WATER DISCHARGE CONTROL MEANS
Alfred G. Swenson, Ontario, Calif., assignor to General Electric Company, a corporation of New York
Application January 7, 1949, Serial No. 69,774
3 Claims. (Cl. 38—77)



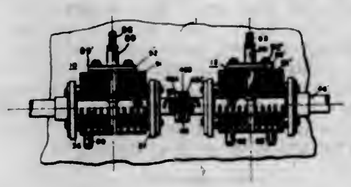
1. A steam iron comprising a water tank, a flash steam generator located adjacent thereto,

means furnishing communication between said tank and said steam generator, means for heating said generator for flashing the water fed into it from said tank into steam, a fill tube having one of its ends fixed to said reservoir and extending upwardly when said iron is in normal ironing position, and a water feed control member extending longitudinally through and frictionally engaging the inside wall of said fill tube, said control member being slidably movable longitudinally of said fill tube and having a plug portion adapted to seal off said communicating means, and a finger operated control member positioned outside the other end of said fill tube for manually adjusting the rate of water flow.

2,587,666
OXIDATION OF AROMATIC COMPOUNDS CONTAINING OXYGENATED SIDE CHAINS
William G. Toland, Jr., Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 17, 1950, Serial No. 168,850
11 Claims. (Cl. 260—524)

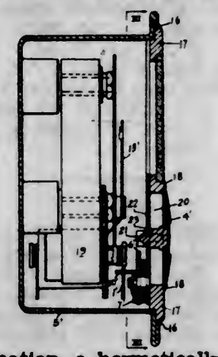
1. A process for producing aromatic carboxylic acids and salts of aromatic carboxylic acids having the carboxyl carbon atom directly attached to a nuclear carbon atom which comprises oxidizing an oxygen-containing product of the partial oxidation of an alkyl aromatic hydrocarbon by contacting said product with an aqueous mixture of a basic material selected from the group consisting of alkali metal hydroxides and their salts with weak inorganic acids, alkaline earth metal hydroxides and their salts with weak inorganic acids, and an inorganic sulfurous material containing sulfur atoms at a valence level below plus six and above minus 2 at a temperature above about 550° F.

2,587,667
INDUCTIVELY COUPLED COMPENSATOR
Emerick Toth, Takoma Park, Md.
Application June 14, 1945, Serial No. 599,498
7 Claims. (Cl. 250—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, two capacitor units each comprising three sets of capacitor plate elements, one of said sets being movable and the remaining two sets being fixed, the area of the said movable sets being such as to be capable of introduction in variable amounts in interleaving relationship between the two fixed elements of each unit, capacitive means providing a mechanical insulating coupling between said movable set of plate elements of the two capacitor units, and impedance means electrically coupling said movable sets of plate elements to each other, the said movable sets of plate elements floating electrically between said fixed set of plate elements.

2,587,668
READING ADJUSTMENT FOR AN INDICATING INSTRUMENT IN HERMETICALLY SEALED CASES
John Foster Veevers, Lymm, and Henry Cobden Turner, Hale, England, assignors to The General Electric Company, Limited, London, England
Application March 11, 1948, Serial No. 14,324
In Great Britain January 3, 1947
6 Claims. (Cl. 116—129)



1. In combination, a hermetically sealed case, said case having an opening therein, an indicating instrument within said case, said instrument including an indicating member within said case, said instrument also including a movable member within said case for adjusting the position of said indicating member, a flexible member sealed over said opening, and a positive kinematic connection between said flexible member and said movable member whereby displacements of the flexible member will be mechanically transmitted to the movable member.

2,587,669
PROCESSING LIQUID HYDROCARBONS
William W. Weinrich, Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application January 3, 1950, Serial No. 136,444
14 Claims. (Cl. 196—52)



2. The method of treating liquid hydrocarbons which comprises engaging hot granular contact mass with a vapor stream to effect elevation of said mass into and through an elongated vertical channel under the impelling influence of said vapor stream, said vapor stream being compatible with hydrocarbons, distributing liquid hydrocarbon oil on the vertically moving con-

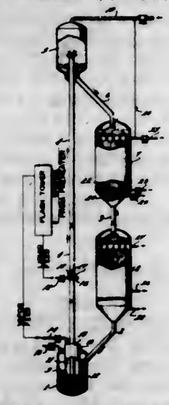
tact mass at a level within said channel at which said contact mass is present in suspension in the vapor stream in an average concentration of not less than 10% of the apparent bulk density of said mass, said contact mass being at a higher temperature than said liquid oil, transferring heat from the contact mass to the oil to effect vaporization of the oil within said channel, discharging the contact mass and oil vapors thus formed into an expanded disengaging area, maintaining engagement between said oil vapors and said contact mass thereafter to effect at least partial conversion of said vapors to lower boiling hydrocarbons, discharging the contact mass into a heating zone and heating the same in said zone to restore the temperature of said mass, and returning the thus heated contact mass to further engagement with said elevating vapor stream.

2,587,670

PROCESSING LIQUID HYDROCARBONS

William W. Weinrich, Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

Application February 1, 1950, Serial No. 141,723
12 Claims. (Cl. 196—52)



1. The method of processing a liquid hydrocarbon charge containing components boiling above the range of gasoline, which comprises heating such a charge by contacting the same in liquid state and in controlled quantity with hot granular adsorptive contact material, said granular material being at a temperature higher than said charge and directly transferring heat contained therein to said charge effecting at least partial vaporization of said charge, the contacting of the charge with said granular material being effected by admitting the liquid charge peripherally into a laterally confined upwardly moving stream of said granular material impelled by an upwardly flowing gasiform medium compatible with hydrocarbons, limiting the quantity of liquid hydrocarbons thus contacted with the granular material to an amount such that any of such hydrocarbons not vaporized thereby are adsorbed in the granular material during upward travel of the granular material, discharging said granular material from the impelling influence of said gasiform medium to terminate upward movement of said granular material, thereafter passing said granular material as a compact gravitating bed through a laterally confined hydrocarbon processing zone, and contacting said bed of granular material with hydrocarbon vapors to be processed and including vapors formed from said liquid charge.

2,587,671

REDUCTION OF OXYGENATED THIOPHENE COMPOUNDS

Irving Wender and Milton Orchin, Pittsburgh, Pa.

No Drawing. Application May 15, 1951, Serial No. 226,520
9 Claims. (Cl. 260—332.8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

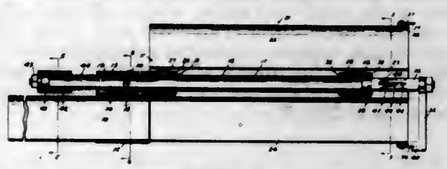
1. A method for completely reducing the oxygen-containing group in an oxygenated thiophene compound selected from the class consisting of thiophene aldehydes, thiophene ketones, and thenyl alcohols wherein the oxygen atom of the oxygen-containing group is attached to a carbon atom α to the thiophene nucleus comprising the steps of reacting said compound with hydrogen in the presence of a catalyst selected from the group consisting of carbonyls of cobalt and iron, at a temperature of from 70° to 250° C., under a pressure of at least 40 atm., while maintaining a concentration of carbon monoxide in the reaction zone at least sufficient to prevent the decomposition of said carbonyl catalyst under the reaction conditions.

2,587,672

AUTOMATIC REVOLVING CHAMBER ROCKET LAUNCHER

William L. Whitson, Takoma Park, Md.

Application August 18, 1945, Serial No. 611,436
8 Claims. (Cl. 89—1.7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The combination with a rocket launcher tube, of a revolver loader for said launcher tube comprising a shaft secured to said launcher tube in laterally offset relation therewith and mounted for axial translation only, a revolver comprising a plurality of loader tubes mounted for rotation as a unit on said shaft to be successively aligned with said launcher tube, vane means for so translating said shaft in one direction in response to the back blast from a rocket in the loader tube aligned with said launcher tube, resilient means urging said shaft in the other direction, and means operated by movement of said shaft in said other direction to rotate said revolver to bring the next adjacent loader tube into alignment with said launcher tube.

2,587,673

TOGGLE-ACTUATED PIVOTED JAW WRENCH

Clarence E. Aden, Adams, Nebr.

Application July 29, 1950, Serial No. 176,646
1 Claim. (Cl. 81—84)

A wrench comprising a body portion forming a chamber open endedly and at the back thereof, the frontal wall thereof being longitudinally slotted, a fixed jaw angularly disposed on the open end of said body portion, a tubular housing integrally formed on the opposite end of said body, an internally threaded sleeve held in said tubular portion for free rotation therein, a knob integral therewith disposed exteriorly of said tubular portion for rotation of said sleeve, a pivot head movable longitudinally in said chamber, an integral screw fixed to said pivot head and in constant mesh within said sleeve, a lever pivotally connected with said pivot head, a pivoted jaw held for longitudinal movement between the side walls



of said chamber, a bifurcated shank integral with said movable jaw, a pair of toggle plates pivotally connected within the bifurcations of said shank, and a pivotal connection at the opposite end of said toggle plates medially between the pivot point of said lever and the shank ends.

2,587,674

BOLOMETER

Charles B. Aiken, Wilton, Conn., assignor to the United States of America as represented by the Secretary of the Air Force

Application April 13, 1950, Serial No. 155,731
4 Claims. (Cl. 201—63)



1. In a bolometer, the combination of a sealed, metal, tubular envelope containing a gas and having a window capable of transmitting radiant energy in the infra-red region therethrough, a pair of insulating beads mounted in said envelope and carrying a pair of longitudinally extending conducting rods, said conducting rods providing electrical communication between the interior and exterior of said envelope, a pair of flat electrodes rigidly secured to said conducting rods, said electrodes having cooperating spaced-apart portions lying in a plane substantially perpendicular to the longitudinal axis of said envelope and forming a ring-like support, a plastic film carried by said support, a thin, blackened metal strip on said film and electrically connected to said electrodes, and a polished cooling plate supported in close proximity to said metal strip on the side thereof opposite to that from which radiation is received.

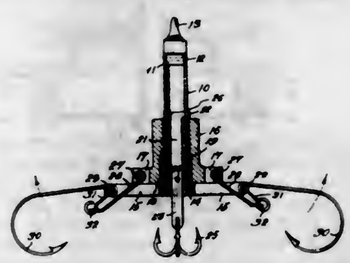
2,587,675

AUTOMATIC FISHING APPARATUS

Charles A. Airey, Alliance, Ohio

Application July 15, 1949, Serial No. 104,974
1 Claim. (Cl. 43—89)

An apparatus of the character described comprising a centrally disposed hollow cylindrical member having an opening in one side thereof, a spider at the outer end of the cylindrical member, a plurality of inwardly directed outwardly swingable fish-engaging hooks pivoted to the outer ends of the spider, a collar slidable on the cylindrical member, a compression spring interposed between the spider and the collar, an elongated arm extending into the cylindrical member and substantially centrally pivoted thereto to said cylindrical member adjacent the outer end thereof, a latch formed integrally with the



inner end of said arm and extending laterally through the opening in the side of said cylindrical member to engage the collar when the same is pressed against the spider against the action of the spring, bait hooks mounted at the outer end of said arm and means interconnecting the collar and the fish-engaging hooks whereby movement of the collar toward the spider distends said fish engaging hooks.

2,587,676

CONNECTOR CLAMP FOR COAXIAL ELECTRICAL CABLES

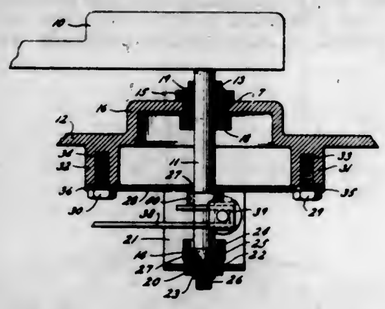
Dallas C. Akers, East Orange, N. J.

Application October 14, 1948, Serial No. 54,378
3 Claims. (Cl. 174—21)



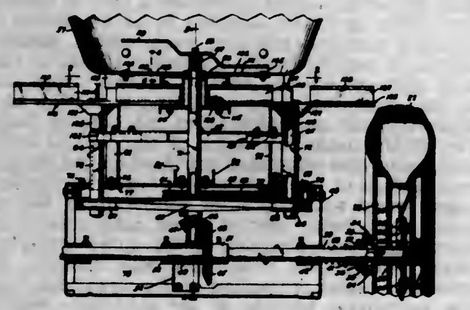
1. A connector clamp for joining a plurality of coaxial cables having inner and outer conductors separated by an inner insulation sleeve and inclosed by an outer insulation sleeve, which said connector clamp comprises a pair of matching clamp members adapted to be assembled in opposed meeting relation, each clamp member having a central cavity indenting its inner face and semi-cylindrical bores radiating from said cavity, each said bore including a section of a diametric size approximating the outside diameter of the outer conductor of the coaxial cable, and transverse serrations provided on the peripheral surface of the said bore section for indenting engagement with the outer conductor of the coaxial cable being served when said outer conductor has been stripped of the outer insulation sleeve coextensive with said bore section, the extent of radial projection of the serrations from the peripheral surface of the said bore section being just sufficient to be of diametric crest size somewhat less than the diametric size of the outer conductor of the coaxial cable whereby to indentingly impress to a predetermined depth and grip said stripped outer conductor in a manner to afford an efficient solderless electrical grounded connection with the clamp.

2,587,677
PHONOGRAPH TONE ARM SUPPORTING AND ADJUSTING ARRANGEMENT
Louis C. Ammlung, Jr., Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application September 9, 1948, Serial No. 48,426
5 Claims. (Cl. 274—23)



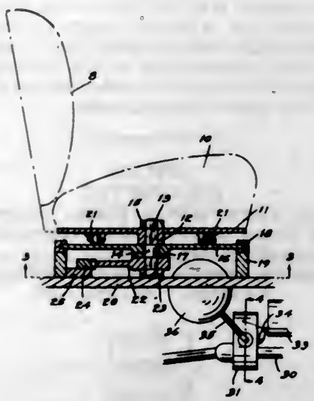
4. In a phonograph apparatus, a tone-arm, a generally vertical shaft connected to the tone-arm to support it over and in a plane generally parallel to the playing surface of a record, an upper bearing engaging an upper portion of said shaft, a second bearing engaging a lower portion of said shaft, a supporting base carrying one of said bearings, a bracket secured to said base and carrying the other of said bearings, said bracket having a pair of relatively spaced openings, and fastening elements passing through said openings for engagement with said base, one of said openings being larger than the cross-sectional dimension of the associated fastening element to provide for lateral swinging displacement of the bracket and the bearing carried thereby, so as to adjust the angular position of said shaft in the bearings thereby adjusting the angular position of the tone-arm in relation to the playing surface of a record.

2,587,678
LIME SPREADER
Byron T. Ausland and John Vincent Webster, Kankakee, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application July 24, 1948, Serial No. 40,463
4 Claims. (Cl. 275—8)



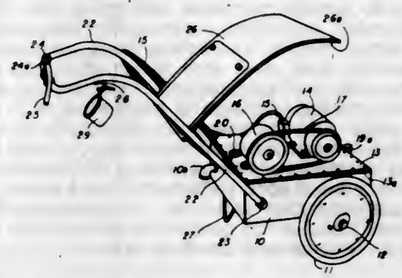
1. In a vehicle for dispersing granular material for land conditioning and planting comprising, a framework affording journal support to a horizontally disposed axle shaft and to a plurality of vertically disposed power transmission shafts and carrying a supply hopper for granular material, a pair of trailer wheels journaled on said horizontally disposed axle shaft, clutch means for imparting rotation of said wheels to said axle shaft, a set of beveled gears coupling said axle shaft with one of said vertically disposed shafts, a chain and sprocket drive between said one of said vertically disposed shafts and a second vertically disposed shaft, belt drive pulleys carried by said second vertically disposed shaft and a third vertically disposed shaft, a cross-over belt for driving said third vertically disposed shaft in opposite rotation from said second vertically disposed shaft, an agitator for agitating said granular material in said supply hopper driven by said first vertically disposed shaft, and a pair of dispersal impellers driven in opposite rotation by said second and third vertically disposed shafts.

2,587,679
ADJUSTABLE SEAT FOR AUTOMOBILES
Dale S. Atkinson, Winnipeg, Manitoba, Canada
Application April 28, 1950, Serial No. 158,671
2 Claims. (Cl. 296—65)



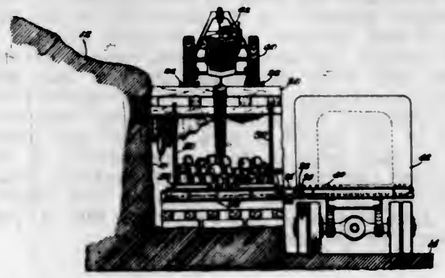
1. In combination with an automobile having a floor and a side wall defining a door opening and said opening normally closed by a door hinged to said side wall; an adjustable seat for said automobile, comprising: transverse guides supported by said floor; a plate member mounted for sliding movement on said guides; a seat section normally positioned within said automobile and receivable by said plate member for rotation thereon in the sliding movement thereof on said guides; power means for moving said plate member along said guides, comprising a piston slidably mounted in a cylinder and connected to said plate member; a fluid control valve mounted adjacent and connected to said door; a source of fluid pressure connected to said control valve; fluid connections between said control valve and said cylinder; said control valve, operable by the opening movement of said door, to connect said source of fluid pressure to one end of said cylinder and operate said piston to move said seat section toward said door opening; said control valve, operable by the closing movement of said door, to connect said source of fluid pressure to the opposite end of said cylinder and operate said piston to return said seat section to its normal position within said automobile; and means on said control valve for relieving fluid pressure from the exhausting end of said cylinder during the movement of said piston.

2,587,680
MILKING MACHINE
Donald F. Ayres, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application April 10, 1947, Serial No. 740,529
5 Claims. (Cl. 230—235)



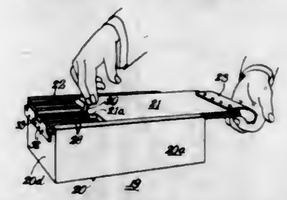
1. In a milking machine, a hollow base having a top and a bottom, a vacuum pump mounted on said top and having an air inlet and an air outlet, a generally horizontal partition in the base disposed intermediate the top and the bottom thereof and dividing at least part of the interior of the base into upper and lower chambers, the lower chamber being connected to said inlet and forming a trap to collect particles in the air passing to said inlet, the upper chamber being connected to said outlet and forming an oil reservoir, the base having an air exhaust opening communicating with said upper chamber, and a milker vacuum line connected to the base and opening into said lower chamber.

2,587,681
LOG HANDLING APPARATUS
Harold L. Baldwin, St. Johnsbury, Vt.
Application April 6, 1946, Serial No. 660,128
3 Claims. (Cl. 214—41)



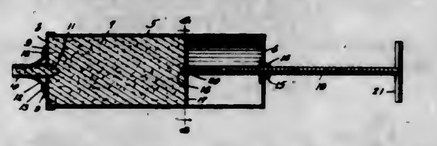
2. Log handling apparatus comprising an open sided pit, spaced channel irons providing a track bridging the pit, a first conveyor mounted at the bottom of the pit and movable transversely with respect to said track, a second conveyor mounted adjacent to and in alignment with the first conveyor, upright stakes carried by the first conveyor and adapted to receive long logs drawn inwardly between the channel irons of said track to confine the said logs in a pile below the track upon the first conveyor and to carry the logs as a unit load in movement along the said conveyors, and means linked to both conveyors adapted to drive both conveyors in unison, whereby the unit load of logs is transferred out from beneath the tracks from the first conveyor to the second conveyor without disturbing the form of the unit load.

2,587,682
CARD SORTER
Calvin Bard, Tulsa, Okla., assignor to Kwixx Kard Company, Tulsa, Okla., a corporation of Oklahoma
Application May 27, 1946, Serial No. 672,399
3 Claims. (Cl. 129—16.1)



1. A card sorting apparatus comprising a box, a cover for said box, a rack removably positioned on said box beneath said cover, a plurality of sorting rods in said rack having ends thereof extending beyond one end of said rack and box, and a curved extension on said cover which partially encloses the extending ends of said rods, said extension also serving as a handle for carrying said apparatus.

2,587,683
DISPOSABLE CAULKING GUN
Robert E. Barry, Bethesda, Md.
Application September 9, 1949, Serial No. 114,851
1 Claim. (Cl. 222—89)

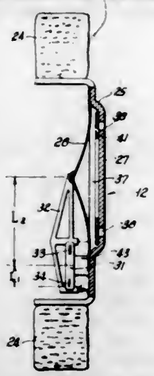


A disposable caulking gun comprising a cylindrical container closed at opposite ends; a follower positioned within and shiftable longitudinally of the container from one end of the container to the other end thereof, to force material contained within the container toward the second-named end; diametrically opposed flanges extended toward each other and secured to the exterior surface of the second-named end of the container; a nozzle open at opposite ends and having one end cut away angularly to provide a point adapted to puncture the second-named end of the container to form an opening therein, whereby to extend the nozzle partially into the container; a skirt surrounding and secured to the intermediate portion of the nozzle and engageable against the exterior surface of the second-named end of the container; diametrically opposed flanges extended outwardly from the skirt, said flanges being engageable under the first-named flanges when the nozzle is partially rotated in said opening to secure the nozzle in position upon the container; and means for forcing the follower longitudinally of the container to expel material through said nozzle.

2,587,684
DIRECTIONAL MICROPHONE
Benjamin B. Bauer, Oak Park, Ill., assignor to Shure Brothers, Incorporated, Chicago, Ill., a corporation of Illinois
Application October 13, 1948, Serial No. 54,221
23 Claims. (Cl. 179—110)

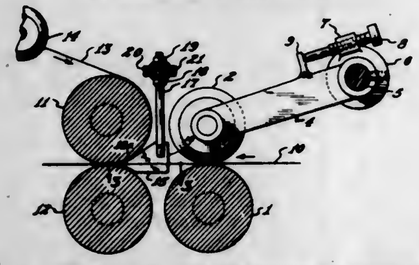
1. A directional sound translating device for a range of frequencies comprising, a translating

unit adapted to be exposed to sound pressure along one portion thereof for producing an output proportional to displacement, a sound pressure phase shifting network including resistance and compliance for coupling another portion of said translating unit to sound pressure, said



translating unit having a natural frequency of approximately the geometric means frequency of the range to be translated, and the resistance of said network being approximately equal to the reactance of said translating unit at the lower end of the frequency range to be translated.

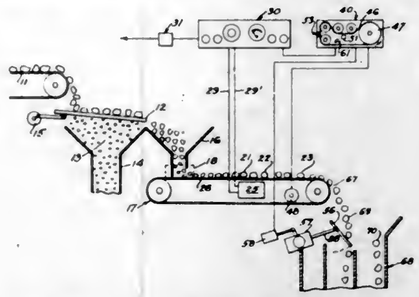
2,587,685
METHOD FOR THE MANUFACTURE OF ARTICULATED PANELS
Robert Morris Bergstein, Cincinnati, Ohio
Application February 7, 1947, Serial No. 727,212
3 Claims. (Cl. 154—116)



1. A process of manufacturing articulated panels of non-scorable sheeting from a supply of sheeting material which comprises continuously moving the supply of sheeting, slitting said sheeting parallel to its direction of motion so as to divide it longitudinally into panel portions, forcibly separating the slit edges of the sheeting panels laterally a distance approximately equivalent to the thickness of the sheeting by means of a spreader blade, and immediately upon the passage of the laterally separated slit edges beyond the spreader blade, affixing to the sheeting panels over the laterally separated slit edges a flexible hinging material serving to hingedly articulate the panels to each other.

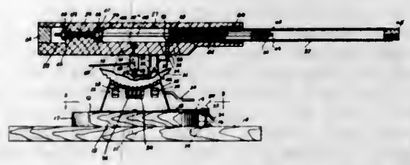
2,587,686
ORE SORTING SYSTEM
Robert R. Berry, San Francisco, Calif.
Application April 27, 1948, Serial No. 23,561
1 Claim. (Cl. 209—81)

An ore sorting system comprising a high-frequency alternating current circuit, means coupled to said circuit for producing an induction field, a conveyer having a terminal for moving individual pieces of mine rock in single file through said induction field to detect the electrical characteristics thereof, a tuned circuit coupled with said alternating current circuit; said tuned circuit being adapted variably to respond to variations in voltage impressed thereon as a result of electrical characteristics reflected by certain pieces of said mine rock moving through said field, a first relay actuated by said tuned circuit, an endless steel wire, means for moving said steel wire in synchronism with the movement of said conveyer, electro-magnetic recorder means electrically connected with said first relay and mounted in proximity to said wire for impressing and recording on said wire signals or responses to electrical characteristics of certain mine rock reflected in said tuned circuit and said first relay, an electro-magnet reproducer mounted in proximity to said steel wire but remote from said recorder means for picking



up from said wire the electrical responses as recorded thereon by said recorder means, an electrical circuit including said reproducer and a second relay, a multiple-channel hopper mounted below the terminal of said conveyer for receiving said mine rock as it falls by force of gravity from said conveyer at said terminal, an air cylinder mounted adjacent to said hopper, a solenoid for governing the ports of said cylinder, a gate pivotally mounted on the piston rod of the piston of said cylinder; said gate being adapted in one pivoted position to deflect certain of said mine rock from its normal path of fall, and means electrically connected to said second relay for actuating said solenoid to effect reciprocation of the piston of said cylinder and pivoting of said gate on each reproduction of the recorded electrical responses of electrical characteristics of certain of said mine rock reflecting said electrical characteristics into a predetermined channel of said hopper.

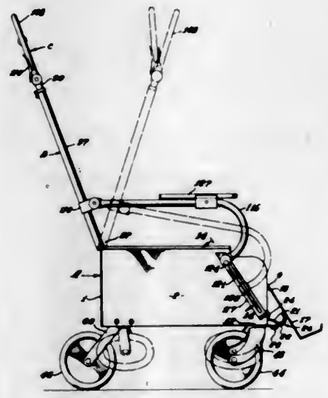
2,587,687
TOY GUN
Fred C. Beyers, Tonasket, Wash.
Application December 17, 1946, Serial No. 716,750
1 Claim. (Cl. 124—14)



A toy pop gun comprising a holder having a barrel portion with a central bore and a support extending downwardly from the barrel portion

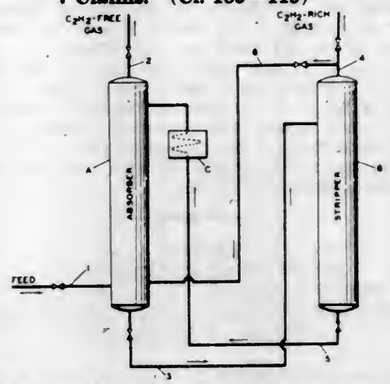
intermediate the length thereof, a trigger pivoted on the holder forwardly of the support, said holder having an opening in its barrel portion through which the trigger may be extended, a second barrel slidable within the central bore of the barrel portion of the holder, a rod extending through the second barrel and connected to the rear end of the barrel portion of the holder, a plunger on the outer end of the rod, an operating spring surrounding the rod and extending between the plunger and the rear end of the second barrel to urge the rearward movement thereof, the forward end of the second barrel being adapted to receive a charge of material, said trigger being adapted when extending through the opening in the holder to engage the rear end of the second barrel to normally retain the same in the extended position, said rod being threaded on its rear end, an adjustable lock nut on the threaded end of the rod to retain the rod against rearward displacement and to allow for the proper adjustment of the rod within the second barrel, a cushioning means surrounding the rod and adapted to react against the rear end of the second barrel to cushion and resist the rearward movement thereof at the end of its rearward stroke and upon the second barrel being released from the trigger, and a nut secured to the threaded end of the rod for retaining the same on the holder against forward displacement therefrom.

2,587,688
COLLAPSIBLE CHILD'S CARRIER AND SEAT
John P. Bosk, Los Angeles, Calif.
Application November 28, 1947, Serial No. 788,584
9 Claims. (Cl. 280—39)



1. In a device of the class described, a body, rocker shafts mounted in said body, wheel mountings mounted on said rocker shafts, each of said wheel mountings having a wheel rotatably mounted thereon, a back rest connected to said body, arm rests connected to said back rest and slidably engaging said body, lock means so associated with said arm rests and said body that when said back rest is moved to its set-up position said lock means operates to lock said back rest in said position, and means so connecting said back rest to said rocker shafts that when said back rest is released from its set-up position rendering the locking means inoperative and moved down on said body that said rocker shafts are rotated to swing said wheels up close to the bottom of said body.

2,587,689
SEPARATION OF ACETYLENE FROM GASEOUS HYDROCARBON MIXTURES
E. O. Box, Jr., Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application March 31, 1947, Serial No. 738,382
7 Claims. (Cl. 183—115)



7. The process of separating acetylene from a gaseous hydrocarbon mixture containing same together with at least one more saturated hydrocarbon which comprises intimately countercurrently contacting said mixture in the gaseous state in the absence of water with liquid acetic anhydride and thereby effecting preferential dissolution of acetylene contained in the mixture in the acetic anhydride while allowing the more saturated hydrocarbon to remain undissolved, withdrawing the undissolved gas thereby depleted in acetylene from the top of the contacting zone, withdrawing the resulting acetylene-enriched acetic anhydride from the bottom of the contacting zone, passing said enriched acetic anhydride to a separate stripping step and there stripping the dissolved acetylene from the acetic anhydride.

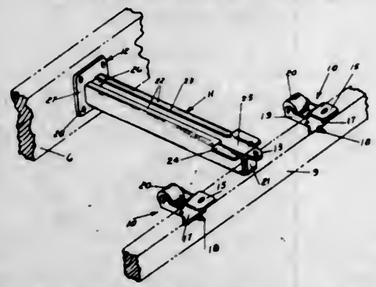
2,587,690
HOIST FOR CONVEYING LOADS TO MOVING PLATFORMS
Christopher Francis Brereton, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British company
Application September 22, 1948, Serial No. 50,552
In Great Britain October 1, 1947
8 Claims. (Cl. 198—225)



1. A load conveying hoist for carrying loads from a loading point to a relatively higher un-

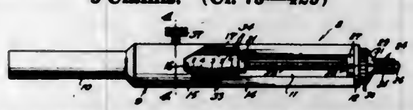
loading point displaceable relatively to the loading point so as to vary the distance between the loading and unloading points, comprising a telescopic guide, means pivotally connecting it across the lower and upper loading points, a lower stage load feeding means which drives the loads along the guide from the lower end of the guide partly up the guide, an upper stage load feeding means transferring the loads in succession from the upper terminus of the lower stage load feeding means along the guide to the upper end of the guide, so that the loads are fed in succession along the telescopic guide in such manner as to create a train or succession of loads along the guide, and means automatically adjusting the effective length of operation of one of the said feeding means in sympathy with the changes in effective length of the guide.

2,587,691
DRAWER CONSTRUCTION
Wilbur A. Brewer, Los Angeles, Calif.
Application September 20, 1946, Serial No. 698,096
1 Claim. (Cl. 312—343)



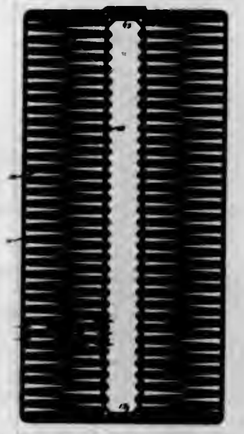
In a drawer structure, horizontally spaced vertical front and rear support panels, said front panel being formed with a drawer opening, a pair of widely spaced brackets mounted at the rear of said front panel near the sides of and below the drawer opening, each of said brackets having roller means rising above the bottom of the drawer opening, a horizontal tubular guide extending between and secured at opposite ends of said rear panel and said front panel, said tubular guide comprising a bottom wall, laterally spaced sidewalls rising from said bottom wall, and horizontal flanges on the upper ends of the sidewalls extending toward each other into spaced relation to define a single relatively narrow guide slot extending longitudinally of said tubular guide, the upper surfaces of said flanges being on a level below the bottom of the drawer opening, a drawer extending horizontally through the drawer opening having a bottom rollably supported on said roller means and a rear end, and a guide member comprising a bracket secured to the rear end of the drawer, said bracket having a vertical plate portion depending below the drawer bottom and through said slot in the tubular guide, and a single roller on one side of said plate portion extending below the lower end of said plate portion and rollably engaging the bottom wall of the tubular guide whereby the rear part of the drawer is supported, said depending plate portion being substantially the same width as said guide slot whereby said plate portion serves to prevent substantial sidewise displacement of the drawer relative to the tubular guide and the drawer opening, said plate portion and said single roller together being thicker than the guide slot whereby upward tilting of the rear part of the drawer relative to said tubular guide is prevented by engagement of said single roller with the underside of one of said horizontal flanges, limited portions of said horizontal flanges near said front panel being cut away to provide an enlargement of said guide slot sufficient to pass said depending plate portion and said single roller upwardly out of said tubular guide to permit forward removal of the drawer through the door opening in said front panel.

2,587,692
POWDER MEASURING DEVICE WITH MICROMETER ADJUSTMENT
Horace W. Brown, West Newbury, Mass.
Application January 13, 1950, Serial No. 138,430
5 Claims. (Cl. 73—429)



5. A measuring device comprising an elongated body member having a bore extending longitudinally from adjacent one end thereof and opening outwardly of its opposite end, said body member having an end wall at the first mentioned end thereof provided with a restricted opening registering with the bore, a plunger slidably disposed in the bore, means non-rotatably retaining the plunger relatively to the bore, manually actuated feed screw means extending loosely through the restricted opening and rotatably and non-slidably disposed in said end wall, said feed screw means being threadedly connected to the plunger for reciprocating the plunger in the bore when the feed screw means is revolved, and the portion of the bore, disposed between its open end and said plunger, defining a variable measuring chamber.

2,587,693
FILTER
George E. Burks, Peoria, and Ronald R. Robinson, Morton, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California
Application April 17, 1947, Serial No. 742,092
2 Claims. (Cl. 210—169)



1. A filter unit adapted for insertion in a filter casing having inlet and outlet openings, said filter unit comprising a perforate outer wall including opposing end and side wall portions and being open in the top and bottom, impervious top and bottom plates secured to said outer wall closing the open top and bottom thereof, a perforate core spaced inwardly of said side wall portions and in communication with the outlet of the casing through an opening formed centrally of said top plate so as to conduct filtrate away from the unit, a pair of filter sections disposed in the spaces between the core and the side wall portions, each of said sections being formed of sheet filter paper folded about axes perpendicular to said top and bottom plates to accordion-like form, the upper and lower edges of said filter sections abutting said top and bottom plates to prevent flow therearound and cause flow from the casing inlet through the perforate outer wall to pass through the filter sections and thence through the core to the outlet of the casing, the folds of said sections nearest the core being in abutment therewith, and said core being vertically corrugated and formed of relatively stiff material with said folds in abutment therewith individually co-operating with the corrugations of said core for separating and maintaining the individual folds of the filter sections in preselected longitudinal relationship.

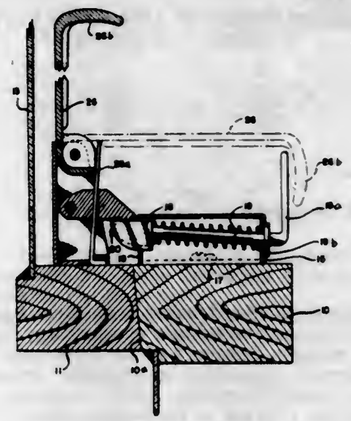
2,587,694
FUSE IGNITING AND CONNECTING DEVICE
John Burnett Chalmers and Francis Hamnet Garland McCaffrey, Brownsburg, Quebec, Canada, assignors to Canadian Safety Fuse Company Limited, Montreal, Quebec, Canada, a company of Canada
Application October 1, 1949, Serial No. 119,034
In Canada September 23, 1949
5 Claims. (Cl. 102—27)



5. A waterproof connecting device for joining in ignitive relationship one end of a length of safety fuse to a line of ignition fuse, said ignition fuse burning with an external flame at a rate at least as rapid as 25 seconds per foot, said connecting device comprising in combination a substantially tubular water impervious shell, one end of said shell being normally open to receive said safety fuse, the opposite end of said shell having slotted means to accommodate said ignition fuse; at least one charge of a heat ignitable composition disposed within said shell between said safety fuse and said ignition fuse, said heat ignitable composition containing a base charge of between 1% and 7% of antimony sulphide, between 5% and 19% of lead dioxide, and between 80% and 95% of nitrocellulose, and means for maintaining said safety fuse and said ignition fuse in ignitive contact with said heat ignitable composition.

2,587,695
WINDOW LOCK
Steven J. Citso, Chicago, Ill.
Application July 19, 1947, Serial No. 762,141
6 Claims. (Cl. 292—175)

1. In a self-locking latch for windows, a bracket secured to an upper sash frame; an angularly bent trip lock pivoted on said bracket; an apertured housing secured on the lower sash frame; a spring pressed latch bolt slidably mounted in said housing and having a stud at one end of said latch bolt; a slotted dog pivoted on said bracket; a bendable retaining member extending through said slotted dog, said retaining member in unbent position normally engaging an end of said trip lock when the window is open to thereby hold said trip lock in unlocked position, the closure of the window being adapted to cause engagement of said stud and said dog to cause said dog to pivot to thereby bend said retaining member to cause disengagement thereof from the end of said trip lock to thereby cause gravity pivoting of said trip lock into locking position.

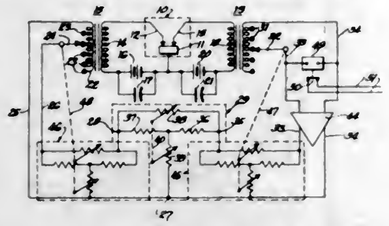


2,587,696
VENETIAN BLIND
Thomas W. Collier, Brunswick, Ga.
Application September 25, 1950, Serial No. 186,603
2 Claims. (Cl. 160—115)



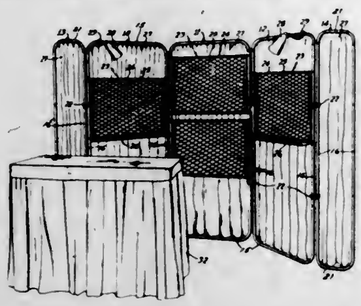
1. A Venetian blind including a fixed head board an upper slat tilting board supported a beneath the head board, front and rear groups of tapes attached to the tilting board, slots supported by the tapes for tilting movement, a main slat tilting mechanism supported by the head board and connected to the tilting board for simultaneously tilting all of the slats, roller brackets attached on top of the head board, a roller journaled in said brackets, and flexible members wound on the roller and connected to one group of tapes at a point between the uppermost and lowermost slats for opening and closing the group of slats positioned below the connected ends of said flexible members independently of the remaining slats.

2,587,697
APPARATUS FOR TESTING AMPLIFIERS
Matthew Conrad, Philadelphia, Pa., assignor to Stromberg-Carlson Company, a corporation of New York
Application October 28, 1949, Serial No. 124,160
2 Claims. (Cl. 179—171)



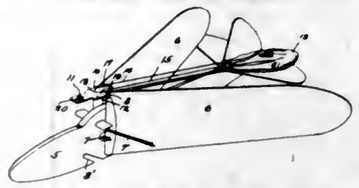
1. Apparatus for testing amplifiers having input and output terminals comprising, input and output circuits coupled to said terminals, each of said circuits including a coupling transformer, means interconnecting said coupling transformers to provide a feed-back circuit between said input and output circuits, means for adjusting said transformers, a pair of adjustable attenuator means in said feed-back circuit respectively ganged with said transformer adjusting means to compensate for variations in the power-loss in said feed-back circuit caused by varying the adjustment of said transformers, other adjustable attenuator means for varying the power-loss in said feed-back circuit, means for indicating the adjustment of said other attenuator means, and oscillation-detector means coupled to said feed-back circuit.

2,587,698
PORTABLE DISPLAY
Belmont Corn, Jr., Scarsdale, N. Y., and Charles D. Roscher, Bogota, N. J., assignors to The Displayers, Inc.
Application January 17, 1951, Serial No. 206,492
2 Claims. (Cl. 160—135)



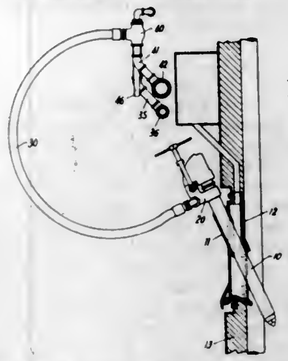
1. Portable display apparatus comprising a plurality of support panels hinged to one another, each of said support panels comprising a pair of substantially U-shaped tubular members and a pair of straight tubular members demountably interconnecting the arms of one U-shaped member to the arms of the other U-shaped member, a plurality of display panels detachably secured to members of the support panels and supported substantially in the planes of the support panels, and a plurality of curtains detachably secured to the members of the support panels, each of said curtains occupying the major portion of the space between the tubular members of the associated support panel.

2,587,699
PARACHUTE ATTACHMENT FOR MODEL GLIDERS
William J. Cotter, Washington, D. C.
Application December 10, 1948, Serial No. 64,527
1 Claim. (Cl. 46—80)



In an aerial toy of the type having an elongated body, wings swivelly carried by the body which fold adjacent opposite sides thereof during the launching of the toy, means carried by the body and connected to the wings for moving said wings into extended position when the pressure of the air against the wings falls below a predetermined value, and a yoke carried by the wings and engageable with the body for arresting movement of the wings relative to the body when they have attained extended position, means for releasably holding a miniature parachute and figure on the toy and launching said parachute and figure when the wings attain extended position, said means comprising a finger carried by the yoke and movable therewith from an upwardly and forwardly extending position relative to the body of the toy to an upwardly and rearwardly extending position relative to the body of the toy, a miniature figure adapted to lie prone adjacent the body near the front end thereof, said figure having an opening extending therethrough for the reception of said finger, a miniature parachute adapted to lie in folded position adjacent the rear end of the body, and rigid shrouds connected to the parachute and to the figure and adapted to be engaged by the folded wings, whereby when the wings move to extended position the shrouds will be released to permit opening of the parachute and the finger will move to its rearwardly inclined position to free the toy figure and permit it to float on the parachute free from the body.

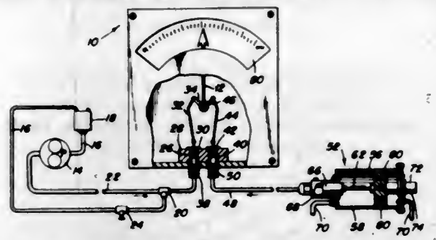
2,587,700
FUEL BURNER
Harry Cowan, Akron, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application April 26, 1947, Serial No. 744,083
7 Claims. (Cl. 299—58)



1. A liquid fuel burner assembly comprising a liquid fuel burner having a liquid fuel discharge

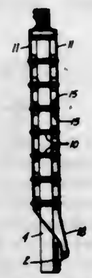
passage and an atomizing fluid discharge passage therein, a liquid fuel supply conduit and an atomizing fluid supply conduit connected to said passages respectively, a three-way rotary valve in each of said conduits, an atomizing fluid by-pass passage independent of said conduits and directly connecting said valves, and means for simultaneously rotating said valves into successive operating positions, in one of which said valves are positioned to direct atomizing fluid from said atomizing fluid supply conduit through said by-pass passage to said burner liquid fuel discharge passage.

2,587,701
LIQUID FUEL METER
James B. Davis, Jr., Rockville, Md.
Application November 22, 1948, Serial No. 61,448
2 Claims. (Cl. 73—114)



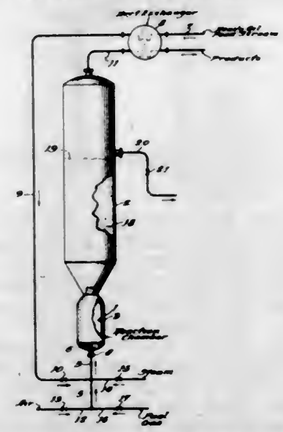
1. A device for indicating the efficiency of a vehicle with regard to unit volume of fuel utilized per unit distance traversed comprising a pump adapted to be actuated by a vehicle speed indicator, a base having an indicator carried thereby, a conduit extending from said pump, and movable pressure responsive means operatively connected with said conduit for moving said indicator in a single direction, movable pressure responsive means for moving said indicator in the opposite direction, a conduit extending from said last mentioned means, a cylinder attached in communication with said conduit, a piston in said cylinder, a second cylinder fixed to said cylinder, a second piston fixed to said first mentioned piston and disposed in said second cylinder, at least one passage in said second piston, and means for applying fuel pump output pressure to one side of said second piston.

2,587,702
VENTILATED WALL
William L. Davis, Fort Bragg, Calif.
Application June 25, 1949, Serial No. 101,443
3 Claims. (Cl. 20—62)



3. A ventilated wall comprising spaced upper and lower frame members, a slat suspended from the upper frame member with freedom of tilting motion, opposing strips of canvas suspended from opposing edges of the slat, a series of additional slats supported between the strips of canvas in vertical spaced relation and parallel to the first slat when the latter is in horizontal position, the strips of canvas extending below the lowermost slat to form loops underneath the same, spools seated in the loops, and means for securing the spools upon the lower frame member to maintain the strips under tension, the spools having a diameter smaller than the width of the first slat to cause the other slats to tilt through angles progressively increasing from top to bottom when the first slat is tilted.

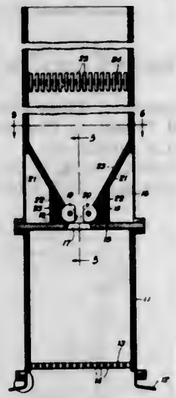
2,587,703
CRACKING HEAVY OILS IN PRESENCE OF OXYGEN
Richard M. Deanesly, Hinsdale, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application February 18, 1948, Serial No. 9,252
2 Claims. (Cl. 196—65)



1. In a process for the autothermic cracking of a relatively heavy hydrocarbon oil stream to produce lower boiling and lower molecular weight hydrocarbons, the improved method of operation which comprises, pre-heating said heavy oil stream and dispersing it continuously in admixture with a free-oxygen containing stream into a relatively small confined reaction zone, controlling the proportions of oil and oxygen-containing streams in the mixture and effecting a substantially adiabatic autothermic cracking of said oil within said reaction zone at a temperature of from 1200 to 1700° F. while maintaining a relatively low superatmospheric pressure therein of less than 3 atmospheres, said adiabatic autothermic cracking being of a sufficient magnitude to form a product stream containing a substantial amount of tar fog and lower molecular weight hydrocarbon vapors, passing the products of oxidation and cracking in a continuous stream to a fluidized bed composed predominantly of coke-like particles being maintained contiguous with the outlet of said reaction zone, passing the product stream upwardly through said bed and therein trapping tar fog resulting from said cracking, while controlling the flow of the vaporous products to provide fluidization of said coke-like particles within said bed, continuously discharging a substantially clear stream of lower molecular weight hydrocarbon products from said fluidized bed, effecting the continuous addition of coke-like particles to said bed by the continuous heating and progressive cracking of said tar fog trapped therein,

and withdrawing a continuous stream of surplus particles whereby to maintain a substantially constant depth fluidized bed of particles.

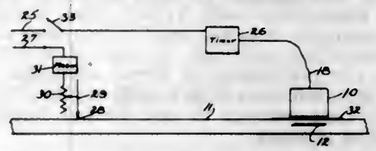
2,587,704
TANGENTIAL CYLINDER VALVE
Delmer G. Debo, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application November 29, 1947, Serial No. 788,849
7 Claims. (Cl. 137—69)



1. A system for throttling the flow of fluids containing abrasive solids, which system comprises a pipe section flanged at one end, a base plate secured to said flange and provided with a central opening, arcuate plates secured to the upper side of the base plate on each side of the opening, end plates secured to the upper side of the base plate at each end of the opening between the ends of the arcuate plates, an upper pipe section above the base plate, inclined walls leading from the upper parts of the arcuate plates and the end plates respectively to the inner walls of the upper pipe section, a pair of rotatable shafts extending through said end plates, each shaft being concentric with one of said arcuate plates, a rotor keyed to each shaft, each rotor being cylindrical on one side and segmented on another side with its cylindrical portion concentric with its respective arcuate plate and spaced at a slight distance therefrom and the ends of each rotor being likewise spaced from the end plates at a slight distance therefrom, a fluid inlet for introducing a sealing fluid into the space between the rotor and adjacent metal surfaces and driving mechanism for rotating said shafts in opposite directions so that a substantially constant opening may be maintained between the opposed segmented surfaces of the rotors by rotating said rotors when portions thereof are worn away by erosion.

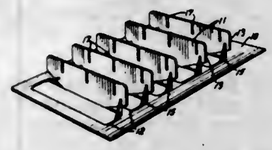
2,587,705
FLAW DETECTION METHOD AND MEANS FOR CARRYING OUT THE METHOD
Taber de Forest, Chicago, Ill., assignor to Magnaflux Corporation, Chicago, Ill., a corporation of Delaware
Application November 6, 1944, Serial No. 562,123
7 Claims. (Cl. 73—15)

1. The method of determining the homogeneity of a metallic object including the steps of coating the surface of the object to be tested with a fusible material having a relatively sharp melting point and a distinctive appearance upon rehardening, placing a contact member having a resistor over the coated surface so as to make a relatively good contact, passing a current through the contact member and the object in magnitude and time sufficient to produce heat capable of melting of a portion of the fusible



material, removing the contact member and allowing the melted spot to harden, and measuring the size of the melted spot and comparing it with the size of a melted spot on a standard piece so that if a fissure is present in the tested object the size of the spot will be larger than that which is present on the standard piece.

2,587,706
COMPARTMENT BOX PARTITION
Irving A. Deline, Denver, Colo.
Application March 7, 1949, Serial No. 80,017
3 Claims. (Cl. 229—42)



1. A partition member for boxes and packages, comprising: a flat cardboard sheet; a plurality of lateral partitions cut from said sheet at their one side and both extremities and folded upwardly at right angles to said sheet along the other side in spaced-apart, parallel relation along parallel scored lines; and end tabs cut from said lateral partitions and being foldably secured to said sheet at right angles to and at the extremities of said lateral partitions the cut defining one side of a tab being in substantial alignment with the fold line of the partition from which it is cut, said tabs being folded upwardly at an angle to the plane of said sheet so that the edges of the tabs will engage and support said partitions in their upright position.

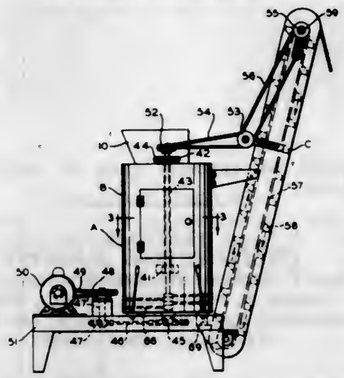
2,587,707
ELECTRIC CORD SLACK STORAGE DEVICE
Franklin J. Dever, Columbus, Ohio
Application March 10, 1950, Serial No. 148,791
3 Claims. (Cl. 242—96)



1. In a device for storing the slack of an electric plug-in cord, a storage spool including a core for the winding thereon of the slack of said cord and a rim positioned adjacent each of the ends of said core and secured thereto, said rims each being provided with a slot extending inwardly from the periphery thereof and terminating adjacent said core for the reception therethrough of the adjacent portions of the slack of said cord, and a cylindrical shell releasably circumposed about the slack of said cord wound upon said core and engageable about the periph-

ery of each of the rims, said shell having a longitudinally extending slot formed therein and extending through its opposing ends through which the cord can be withdrawn and the spool rotated within the shell.

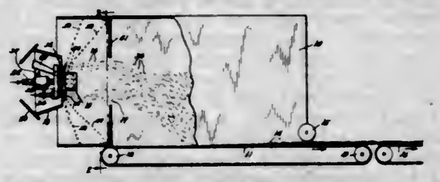
2,587,708
SEED TREATER
Bert C. Dill, Oakes, N. Dak.
Application June 14, 1948, Serial No. 32,951
4 Claims. (Cl. 259—8)



1. A seed treater including a seed hopper, a seed measuring compartment secured to the bottom of said hopper, a flat gate slidably positioned between said hopper and said compartment, said gate being movable to positions providing open and closed communication between said hopper and said compartment, dumping doors hingedly secured to the bottom of said seed compartment, a chemical supply tank adjacent said hopper, lever means for opening and closing said dumping doors and for moving said gate to said open and closed positions, a discharge hole formed in the bottom of said chemical tank, a chemical measuring pocket movably positioned below said discharge hole, means for actuating said chemical measuring pocket to discharge the contents thereof, means connecting said lever means to said means for actuating said chemical measuring pocket, means for agitating a chemical in said chemical supply tank, power means for actuating said lever means and said chemical pocket actuating means, said lever means actuating said slidable gate to close the bottom of said hopper when said dumping doors are open and open the same when said dumping doors are closed for the entrance of seed into said seed measuring compartment, an enclosure for said chemical tank and hopper, and means for agitating seed and chemical deposited in the bottom of said enclosure from said hopper and said chemical tank.

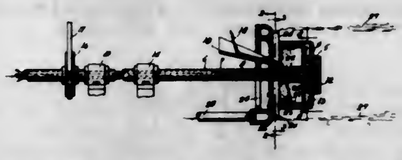
2,587,709
METHOD AND APPARATUS FOR FIBERIZING MOLTEN MATERIAL
Richard M. Downey, North Judson, Ind., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application November 4, 1950, Serial No. 194,180
In Canada May 1, 1950
19 Claims. (Cl. 18—2.5)

1. Apparatus for fiberizing molten material comprising a hollow cylindrical slag-distributor open at one end and rapidly rotatable about a horizontal axis, means for delivering molten material to the interior surface of said distributor from its open end, and means for directing an annular blast of a gas coaxially with said axis and in a direction from the open toward the closed end of said distributor against molten ma-



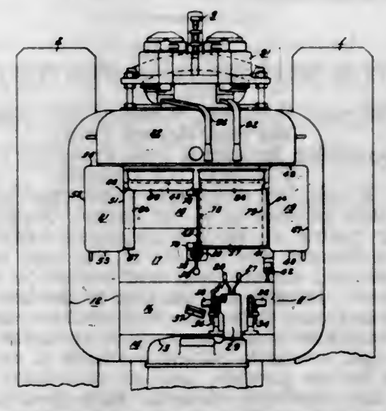
terial discharged from the edge of said distributor under the centrifugal force developed by its rotation.

2,587,710
APPARATUS AND PROCESS FOR MAKING MINERAL WOOL
Richard M. Downey, North Judson, Ind., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application November 1, 1951, Serial No. 254,373
5 Claims. (Cl. 18—2.4)



5. Apparatus for making mineral wool fibers which comprises a source of hot molten slag-like material, a hollow-walled cylindrical rotor, one end of said rotor being open to form a cup-shaped distributor, means for directing a stream of molten slag onto the inerior walls of said distributor to form an annulus of molten material therein, means for controlling the temperature of said annulus consisting of tubes through which to introduce and educt a coolant into and out of the hollow walls of said rotor, and an annular blow-nozzle directed against the open end of said rotor.

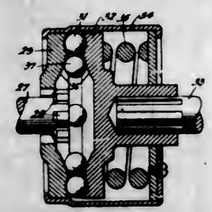
2,587,711
TRACTOR SEAT
Vander M. Dobeus, Findlay, Ohio, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 23, 1948, Serial No. 22,879
3 Claims. (Cl. 180—1)



3. In a tractor, the combination of driver operated tractor controls mounted at a rearwardly

located operator's station on said tractor, driver operated equipment controls mounted on said tractor in rearwardly spaced relation to said tractor controls, a driver's seat mounted on said tractor rearwardly of said tractor controls and forwardly of said equipment controls, a back rest structure mounted on and extending transversely of said tractor and having a portion in rear of said driver's seat and another portion at one side of said driver's seat, a companion's seat section including a frame structure, shelf means on said tractor engageable with said frame structure so as to removably support said companion's seat section in an operative position forwardly of said other portion of said back rest structure and in overlying relation to a leg space at said one side of said driver's seat, so that upon removal of said companion's seat section from its operative position a driver may place himself into a sidewise position on said driver's seat for manipulating said tractor and equipment controls.

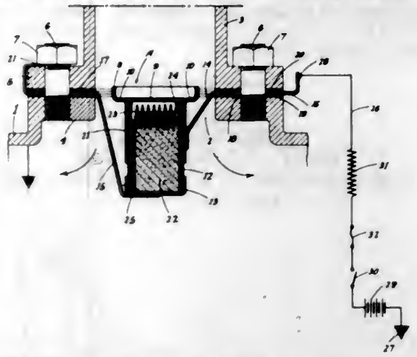
2,587,712
OVERLOAD RELEASED CLUTCH
Adiel Y. Dodge, Rockford, Ill.
Application September 29, 1945, Serial No. 619,381
4 Claims. (Cl. 192—103)



1. A coupling comprising coaxial coupling members, a pair of elements formed with annular cam surfaces, one of said elements being connected to one of the members and the other being movable axially relative thereto, means to connect the other of said elements to the other member, means to connect the elements and to urge them apart in response to torque, one of the connecting means forming a clutch controlled by said elements to be disengaged when they are apart, a spring urging the elements together, and centrifugally responsive weights between the cam surfaces, the cam surfaces having inner portions lying at a relatively wide angle engaging the weights when the elements are together and outer portions lying at a smaller angle to engage the weights when the elements are apart.

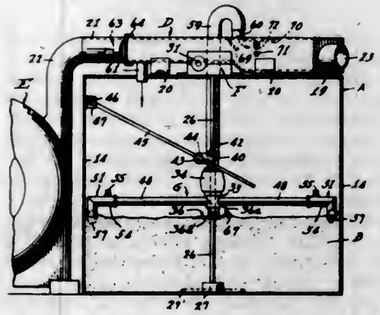
2,587,713
FUEL-MIXTURE VAPORIZER FOR GAS ENGINES
Raymond G. Elliott, Midpines, and James A. Bennett, Merced, Calif.
Application January 3, 1950, Serial No. 136,612
9 Claims. (Cl. 219—38)

1. A vaporizer adapted to be mounted in a fuel-mixture passage of a gas engine, comprising a body having an electric resistance heating element therein, one portion of the body being of substantial surface area and heated by said resistance element, said portion of the body being disposed so that the fuel-mixture impinges thereagainst when the body is mounted in the passage, means to mount the body in said position in the passage, and an energizing circuit for the resistance element; said circuit including said mounting means and said mounting means including a pair of separate members secured to the body in dielectric relation to each other; the resistance element being electrically



connected at opposite ends to corresponding members.

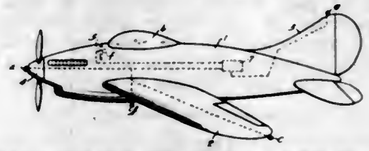
2,587,714
CROP-DUSTING MACHINE
Earl P. Embree, San Leandro, Calif., and Donald C. Schmitten, Chelan, Wash.
Application June 25, 1949, Serial No. 101,294
8 Claims. (Cl. 43—148)



1. In a material-dispensing machine: a container adapted to hold material to be dispensed; the container including an annular wall; a rotatable impeller disposed in the container and having blades movable over the surface of the material; the blades having non-radial leading edges disposed to scrape material toward the annular wall of the container when the impeller is rotated; tubular arms connected to the impeller and having intake nozzles with inlet ends disposed for movement through the material directed toward the annular wall of the container; means for moving the material through the inlets of the nozzles and into the tubular arms; and means for rotating the impeller to move its blades and tubular arms.

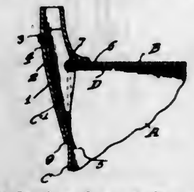
2,587,715
TARGET AIRCRAFT HIT INDICATING SYSTEM
Cameron D. Fairchild, Houston, Tex., and Paul M. Gross and Marcus E. Hobbs, Durham, N. C.
Application August 18, 1947, Serial No. 769,124
4 Claims. (Cl. 273—102.2)

1. A system for counting and indicating hits on target aircraft comprising, means to produce an electrical impulse of high frequency upon impact of a projectile against a portion of the aircraft, means to amplify said electrical impulse, means included in said amplifying means to filter out low frequency electrical signals caused by vibration originating in the aircraft engine, means including a gas-filled tube for actuating a relay by the amplified electrical impulse, an impulse counting means adapted for actuation by said relay, a visual indicator on the target aircraft



adapted for actuation by said relay, and means including a vacuum tube circuit having a delayed cutoff and connected between said relay and said visual indicator for providing a visual indication of some persistence upon projectile impact against said portion of the aircraft.

2,587,716
PACKAGE SPOUT
Theodore H. Fengler, Sherman Oaks, Calif.
Application February 9, 1948, Serial No. 7,032
5 Claims. (Cl. 222—81)



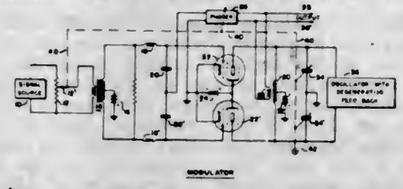
1. A pouring device for rectangular containers vertically insertable in the upper edge thereof, said device comprising an outwardly arched guide member having vertically directed flat inner side edges converging at the bottom thereof into a blunt point, said edges being directed to slide along the outer flat side surface of the container when the device is inserted thereinto, the portion of the device above said guide member being formed into a pouring spout, an outwardly arched cutter extending downward along and conforming to the inner surface of the guide member in slightly spaced relation thereto, the cutter terminating at the bottom thereof in a sharp inwardly curved point slitting the container along the top edge thereof and as the device is pushed into position therein causing the side wall below the slit to lodge within the outwardly curved space between the guide member and the cutter thereby to open the passage for the material within the container to and through the pouring spout, and means rigidly securing the upper end of the cutter in position within the spout portion of the device.

2,587,717
TAMPON APPLICATOR
Charles A. Fourness, Appleton, Wis., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware
Application August 1, 1947, Serial No. 765,366
8 Claims. (Cl. 128—263)



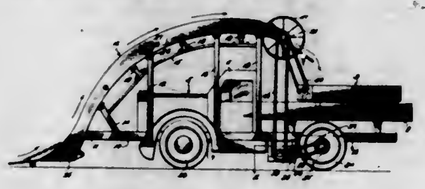
1. A tampon applicator comprising telescopically interfitting inner and outer tubes, the inner tube being movable forwardly within the outer tube for ejecting a tampon from the forward portion of the outer tube, said inner tube being provided with an opening spaced rearwardly from its front end, and said outer tube being provided with an ear projecting inwardly through said opening into said inner tube so as to be engageable with a portion of the tube edge around said opening to thereby prevent rearward displacement of said inner tube from said outer tube.

2,587,718
MODULATION SYSTEM AND METHOD
Benjamin Fox, New York, N. Y.
Original application June 30, 1942, Serial No. 449,121. Divided and this aplication April 24, 1951, Serial No. 222,727
28 Claims. (Cl. 332—19)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



28. The method of generating a frequency modulated signal, comprising generating a carrier wave the frequency of which is variable, frequency modulating said wave with a signal, and maintaining a desired frequency modulation characteristic substantially independent of the variation of the frequency of said carrier wave, the last-named step comprising varying the amplitude of said signal simultaneously with the variation of said carrier wave frequency.

2,587,719
SNOW REMOVING MACHINE
Ned Nazzareno Fratini, Meyersdale, Pa.
Application June 10, 1946, Serial No. 675,653
1 Claim. (Cl. 37—45)

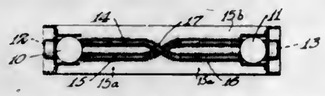


A snow removing apparatus comprising a vehicle, an upwardly extending and curved elevator provided with a shovel at its lower end and a transverse conveyor at the rear of the vehicle and underlying the upper end of the elevator, said vehicle comprising a body having a floor, said conveyor being provided with supporting wheels adapted to be rolled along the floor of the vehicle body when removing the elevator from the vehicle body.

2,587,720
HEAT EXCHANGE DEVICE
Lawrence H. Fritzberg, Minneapolis, Minn.
Application March 11, 1946, Serial No. 652,564
1 Claim. (Cl. 257—124)

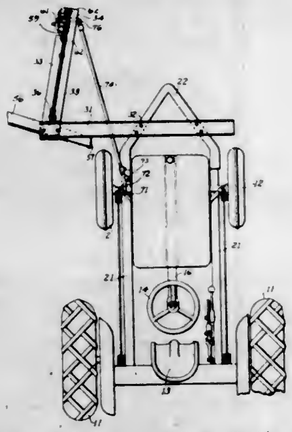
In a steam unit heater adapted to conduct steam therethrough in heat exchange relation

with an external heat exchange medium, a unit comprising at least a pair of conduits adapted to conduct the steam, each conduit having an inlet section, an outlet section and an intermediate section connecting the inlet and outlet sections, said unit having an inlet side and an outlet side for the external heat exchange medium which passes transversely therethrough in a substantially horizontal direction and about the conduits, each conduit extending substantially horizontally in the unit across the path of flow of the external heat exchange medium, one conduit having its inlet section at the inlet side of the unit and its outlet section at the outlet side of the unit, the second conduit having its inlet section



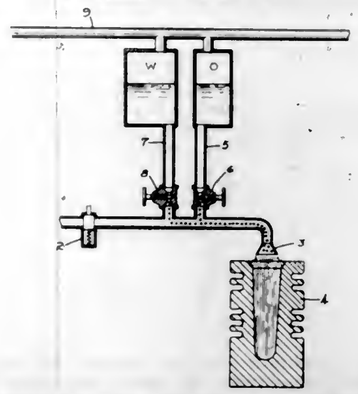
at the outlet side of the unit and its outlet section at the inlet side of the unit, the intermediate section of the second conduit extending across the intermediate section of the first conduit in a substantially horizontal direction across the path of flow of the external heat exchange medium to place its outlet section at the inlet side of the unit, the inlet section of the second conduit being placed rearwardly of the inlet section of the first conduit in the direction of flow of the external heat exchange medium, the outlet section of the first conduit being placed rearwardly of the outlet section of the second conduit in the direction of the flow of the external heat exchange medium.

2,587,721
VINEYARD CULTIVATOR
Hamilton Garnsey and John J. Knapp, Seneca Falls, N. Y.
Application May 24, 1947, Serial No. 750,232
3 Claims. (Cl. 97—137)



1. An apparatus for attachment to a motor vehicle for the cultivation of grapes or other produce in which the vines are supported by or from posts or poles in alignment with each other, the motor vehicle being provided with a frame which is movable upwardly and downwardly with respect to the ground level by the operator, comprising, in combination, a support carried by said frame and extending to the side of the vehicle well beyond the front wheels, a soil handling blade carried by said support, said blade lying substantially wholly outside the front wheels and extending at an angle to the direction of movement of the vehicle, means for adjusting the angle of said blade to enable the blade to be positioned so as to throw the soil either toward or away from the vines, a wheel carried by said frame forwardly of the blade and inwardly of the outer edge thereof and means interconnecting the steering mechanism of the vehicle with said wheel whereby said wheel turns with the front wheels of the vehicle.

2,587,722
TREATMENT OF MOLD SURFACES
Louis D. Garratt and George A. Breene, Emlenton, Pa.
Application November 29, 1950, Serial No. 198,138
4 Claims. (Cl. 18—47)

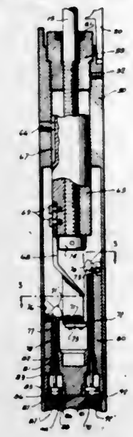


1. A process of treating mold surfaces while at their operating temperature of between 500° F. and 1200° F. in a molding machine for cooling the molds and for depositing graphite on the mold surfaces, which comprises applying to the mold surfaces in the form of a finely divided spray the combination of a solution of colloidal graphite in oil and a mixture of soluble oil and water, such application being accomplished by introducing the oil solution and water mixture from separate sources into a conduit leading to the spray nozzle which directs the spray to the mold surfaces, and closely adjacent said nozzle, said conduit carrying a gaseous stream which mixes with the particles of the oil solution and water mixture, and carries them through the nozzle to the mold surfaces.

2,587,723
GUN PERFORATOR
Otto W. Githens, New York, N. Y., Thad W. Smith, Houston, Tex., and David C. Whitaker, deceased, late of Houston, Tex., by Dorothy B. Whitaker, administratrix, Great Barrington, Mass.
Application May 18, 1949, Serial No. 93,928
7 Claims. (Cl. 164—0.5)

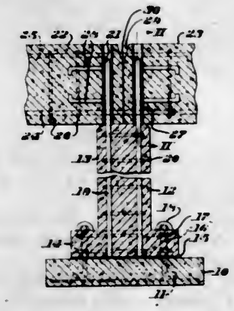
1. A gun perforator comprising, in combination, a supporting head member, a gun body member longitudinally aligned with said head member, a screw rotatable in one member and extending into the other member, a nut fixed to the other member and engaged with said screw, means operable to rotate said screw to effect relative longitudinal movement of said member, said gun body member having a plurality of projectile aiming means fixedly mounted therein in predetermined longitudinally spaced relation to each other along the path of

such movement and movable longitudinally along such path as a result of such relative movement of said members, individual firing means each associated with an aiming means, said firing means being carried by said other member in



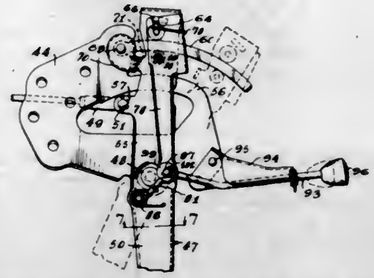
longitudinally spaced relation along such path, the spacing corresponding to that of said aiming means, and a device carried by said screw and operable to successively operate said firing means as each associated aiming means is aligned with the same point along such path.

2,587,724
PRECAST REINFORCED CONCONCRETE UNIT
Albert Henderson, Pittsburgh, Pa., assignor, by mesne assignments, to Peoples First National Bank & Trust Company, Pittsburgh, Pa., a national banking association
Original application September 10, 1945, Serial No. 615,265. Divided and this application December 11, 1946, Serial No. 715,514
2 Claims. (Cl. 72—61)



1. A precast reinforced concrete unit comprising an elongated mass of concrete having embedded therein and bonded thereto a longitudinally extending reinforcing bar and also having embedded therein and bonded thereto a metal member having a bore therein disposed transversely to and adjacent an end of the longitudinally extending reinforcing bar, the metal member intersecting a surface of the concrete mass and being adapted to receive a connecting member, and an anchor bar also embedded in and bonded to the elongated mass of concrete, the anchor bar being relatively short with respect to the longitudinally extending reinforcing bar and being disposed in generally parallel side-by-side relation to the longitudinally extending reinforcing bar, the anchor bar being rigidly secured to the metal member and having a free end, whereby stress imparted to the unit through the metal member and the anchor bar rigidly secured thereto is transmitted to the longitudinally extending reinforcing bar through the concrete bonded to the anchor bar and the longitudinally extending reinforcing bar.

2,587,725
MECHANISM CONTROL
Robert S. Hinsey, Toledo, Ohio, assignor to The Bingham-Herbrand Company, Toledo, Ohio, a corporation of Ohio
Application June 2, 1948, Serial No. 30,685
2 Claims. (Cl. 74—531)

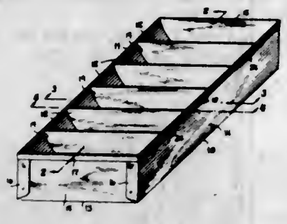


1. Mechanism control including a support; a foot operated lever formed of sheet metal fulcrumed upon said support; a foot pad formed at one end of said lever; said lever having spaced wall portions formed with aligned openings; an abutment block of hardened material fitting in the openings in said wall portions; an arm associated with said support provided with a clutching surface; a clutch roller formed with projecting tenon portions: a manipulating member for said clutch roller pivotally connected to said lever; said member having slots to receive the tenon portions on said roller; resilient means acting on said member for normally urging the clutch roller into clutching engagement with said abutment block and the upper surface of said arm; a second resilient means carried by said manipulating member and engageable with the tenon portions of said roller and arranged to exert pressure in a direction normal to the clutching surface for maintaining the latter in engagement with the arm irrespective of the relative position of said member, and a cylindrical abutment sleeve rotatably supported upon said lever and engaging a lower surface of the arm.

2,587,726
COMPARTMENTED CONTAINER OR TRAY
Arthur Holder, Durham, and Theodore Niedszwecki, Rockfall, Conn., assignors to The Merriam Manufacturing Company, Durham, Conn., a corporation of Connecticut
Application December 17, 1946, Serial No. 716,848
1 Claim. (Cl. 220—21)

A compartmented container including in combination: a container-body having a bottom wall and a pair of spaced-apart lateral walls; a concavo-convex bottom-member performed of resilient sheet material, said bottom-member having oppositely-disposed upper edges, each of which is provided with a guard-flange extending downwardly throughout the length of said upper edge and hooked over the upper edge of the corresponding lateral wall of said container-

body to hold said bottom-member therein, said concavo-convex bottom-member having a plurality of slots extending transversely thereof, each of said slots having a downwardly-facing substantially-straight transverse end-wall at the respective oposite ends thereof positioned below the corresponding upper edges of said bottom-member; and a plurality of partition-plates respectively installed in the slots of said bottom-member so as to project beyond both the upper and lower faces thereof, each of said partition-



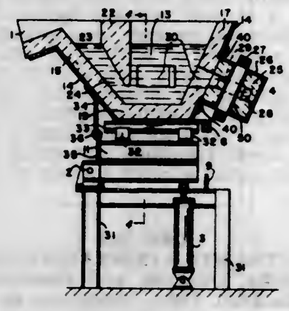
plates being provided with a notch adjacent its respective opposite ends, each of said notches having a substantially-straight bottom edge constituting an upwardly-facing retaining-abutment arranged substantially opposite the corresponding downwardly-facing transverse end-wall of the slot in which the partition-plate is installed to lockingly engage therewith, whereby each of the said partition-plates is held positively by the said concavo-convex bottom-member against upward displacement with respect to said container-body.

2,587,727

TILTABLE INDUCTION FURNACE

Alfred H. Horswell and Alfred H. Horswell, Jr., Jermyn, Pa., assignors to Ajax Engineering Corporation, Trenton, N. J.

Application September 3, 1949, Serial No. 113,966
7 Claims. (Cl. 13—29)



1. A submerged resistor type induction furnace comprising a metal melting and holding chamber having the shape of an inverted frusto-pyramid and being composed of a top, a bottom of a smaller size than said top and inclined side walls converging from the top towards said bottom, secondary melting loops and inductor units threading said loops attached to the outer faces of said side walls said melting loops entering the furnace chamber through said side walls exclusively and means to tilt the furnace about more than one horizontal axis.

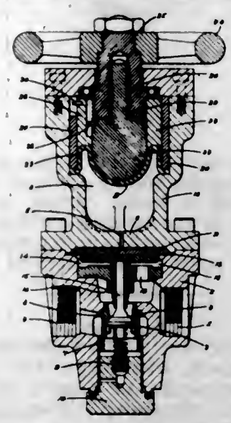
2,587,728

LOADING MEANS FOR PRESSURE REGULATORS

Stanley William Hoskins, London, England, assignor, by mesne assignments, to Grove Regulator Company, a corporation of California

Application January 8, 1945, Serial No. 571,719
In Great Britain July 19, 1944
7 Claims. (Cl. 50—21)

1. In a flow control device of the type including a body having passages for flow of fluid through the same together with a valve means within the body serving to control fluid flow and a flexible diaphragm arranged to operate the valve means; loading means comprising a housing forming a closed gas chamber, and adjustable displacement means carried by the housing and forming one wall of said chamber, said last means comprising a plunger carried by the housing for movements in directions towards or away



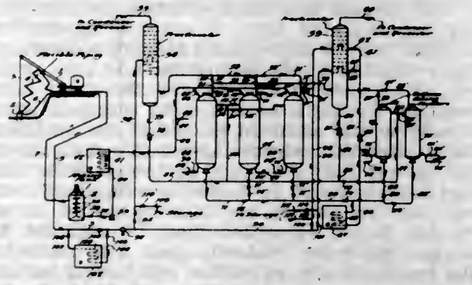
from the interior of the chamber, the inner end of the plunger being rounded, a circularly contoured resilient element having its central portion normally conforming to the rounded end of the plunger and having a peripheral edge of the same sealed with respect to the housing, said element having an annular portion of the same disposed between the plunger and the housing and substantially U-shaped in cross-sectional contour.

2,587,729

PROCESS FOR CONVERSION OF A MIXTURE OF HYDROCARBONACEOUS SOLIDS AND LIQUID HYDROCARBONS

Lyman C. Huff, Evanston, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application May 31, 1946, Serial No. 673,506
1 Claim. (Cl. 196—56)



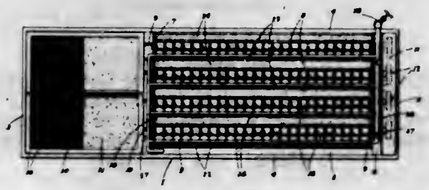
A process for the pyrolytic conversion of a mixture of hydrocarbonaceous solid material and a fluid medium which comprises subjecting said mixture to an elevated temperature under non-coking conditions, introducing the heated mixture into a flashing and drying chamber, flashing off lower boiling fractions from said mixture and passing them to a first fractionator for fractionation and recovery of desired fractions therefrom, discontinuing said flashing operation and the passing of said mixture to said chamber when it is substantially filled with a heavy residual material, subsequently passing a heated vapor stream through said residual material in said chamber and effecting a coking and a higher temperature distillation thereof, passing vaporous products resulting from said higher temperature distillation and coking step to a second fractionator and fractionating the same therein to produce desired light, intermediate and heavy fractions, heating a portion of the intermediate fractions from said second fractionator and recycling them to said drying chamber as the said heated vapor stream for effecting said higher temperature distillation and coking step, passing heavy fractions from both of said fractionators to a separate coking zone, passing a portion of said heated vapor stream through said heavy fractions in said separate coking zone, effecting coking of said heavy fractions and the removal of vaporous porducts from said coking zone, passing the last said vaporous products to said second fractionator together with vaporous products from said drying chamber.

2,587,730

EGG CLEANING MACHINE

Harry A. Hutchinson and Roy C. Patchett, Sebastopol, Calif.; said Patchett assignor to said Hutchinson

Application October 28, 1947, Serial No. 782,662
3 Claims. (Cl. 15—3.12)



1. In an egg cleaning machine, an elongated horizontally disposed driven roller having a plurality of annular egg-locating grooves therein, and means to form, with the upturning side of the roller, a longitudinal substantially V-shaped egg receiving trough open along the top for the placement and removal of eggs, said means comprising an egg supporting bar extending lengthwise of the upturning side of the roller and disposed with its working face above the horizontal axis of the roller and substantially tangent to the bottom of the roller grooves at an acute angle to the perpendicular; said bar being formed on its working face with concave grooves from the top down facing and matching corresponding roller grooves and forming egg receiving pockets with said roller grooves.

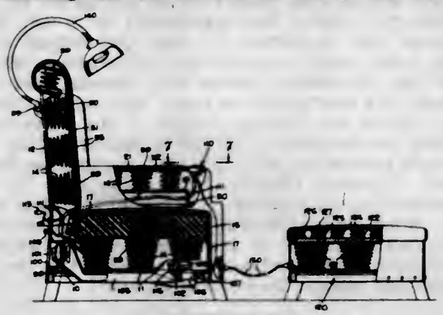
2,587,731

ELECTRICALLY HEATED CHAIR

Frank J. Irving, San Gabriel, Calif.

Application June 19, 1950, Serial No. 169,029
5 Claims. (Cl. 219—19)

1. An article of furniture comprising means providing a collapsible hollow, substantially air-tight body urged into distended position by springs, means for creating an air pressure within the body, means movable with the springs for heating the air within the body, the body



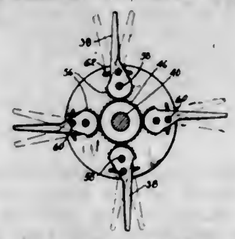
having vents therein to allow egress of air from the body, and means responsive to temperature change of the air in one direction for closing the vents and in the opposite direction for opening the vents.

2,587,732

BAGMAKING MACHINE

Edward T. Jaeger, Rockville Centre, N. Y., assignor to Manhasset Machine Company, Mineola, N. Y., a partnership consisting of Charles M. Jaeger and Edward T. Jaeger

Application November 15, 1946, Serial No. 710,209
4 Claims. (Cl. 164—61)



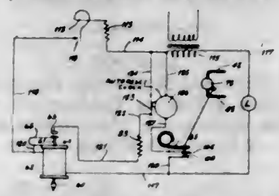
1. A striker or cut-off mechanism comprising a drive shaft, a pair of face plates mounted on said shaft and driven thereby, a plurality of striker blades carried by said face plates and extending outwardly therefrom, and means for simultaneously adjusting the angle at which said blades extend outwardly from between said face plates.

2,587,733

TEMPERATURE CONTROL SYSTEM

Edwin A. Jones, Webster Groves, Mo.

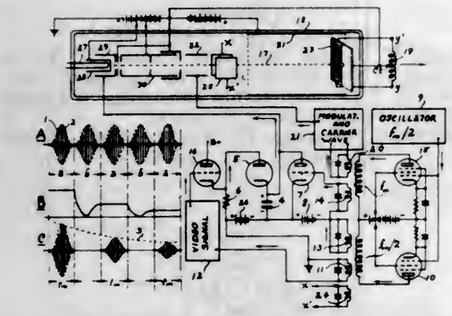
Application October 9, 1944, Serial No. 557,769
21 Claims. (Cl. 236—68)



11. In a control for a burner, a space thermostat movable in opening and closing cycle phases, a fuel flow control valve, opening mechanism for said valve, a fuel flow throttling device, including a heater and a heat-responsive device, said valve opening mechanism being connected for operation to open the valve by closure of the

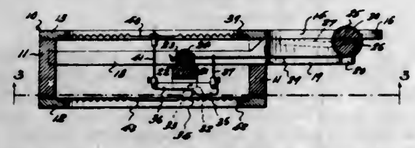
thermostat, means to hold the valve opening mechanism in operation as aforesaid despite subsequent opening of the thermostat, said throttling mechanism heater being connected to produce heat when the thermostat is in one cycle phase and to reduce its heat production when the thermostat is in its other cycle phase, whereby the throttling device will reduce fuel flow when the thermostat is open, and release means to release the holding means of the valve operating mechanism, said release means having elements connected with the heat-responsive device and actuated thereby when the heat in the heater thereof reaches an extreme resulting from an excessive period of opening of the thermostat, the said elements of the release means when so actuated being adapted to cause the release means to release the holding circuit.

2,587,734
MODULATOR TUBE AND CIRCUITS
Meguer V. Kalfaian, Hollywood, Calif.
Application December 22, 1947, Serial No. 793,145
4 Claims. (Cl. 332—58)



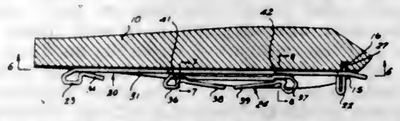
1. In modulator tubes of the cathode beam type where the output of the beam current is controlled by a target in the path of the beam, a target which comprises first and second parts: the first part comprising electron responsive uniform surface and connecting means therefor to return substantially all of the incident beam-current to the original electron source; the second part comprising a plurality of beam responsive parallel strips adjacent to the first part and said strips having mutual impedances in incremental steps of predetermined values with respect to the said first part, in a sense that, the second part presents to the beam an effective impedance which at any one position in a dimension at right angle to the said parallel strips is a function of the displacement of the beam from a normal position, and at said normal position the impedance is substantially zero to the first part.

2,587,735
SINGLE STRING MUSICAL INSTRUMENT
John A. Kalosy, Caldwell, N. J.
Application January 4, 1950, Serial No. 136,765
4 Claims. (Cl. 84—296)



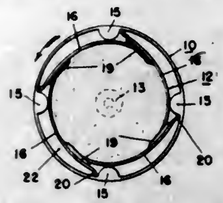
1. A single string musical instrument adapted to produce the notes and tones throughout the scale range of a complete melody comprising a body having a neck portion, a transverse shaft journaled in said neck portion, a string tension control drum of substantial diameter affixed on said shaft, a string having one end anchored to the body and its opposite end to the drum, and manipulating means for oscillating the drum to control tone production comprising a crank-like lever arm provided on said shaft and having a finger piece projecting laterally beyond the body neck portion for engagement by the tone controlling hand of the player, said lever arm being held in stopped engagement with the underside of the body neck portion by the tension of the string when said tension is at its low-pitch limit but subject to oscillatory movement above said limit whereby to rotate the drum for string tension and musical tone variation.

2,587,736
INTERCHANGEABLE FISH LURE
Paul J. Kindscher, Woodbridge, N. J.
Application August 8, 1947, Serial No. 767,489
2 Claims. (Cl. 43—42.36)



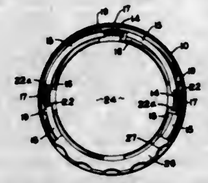
1. In combination, a lure provided with a longitudinally extending T-shaped slot, a fitting adapted to slide within the cross arm of said slot along the length thereof, said slot having an offset portion, said fitting having a projection adapted to be elastically held within the said offset to lock the fitting in place, means on said fitting for holding a fish hook, and means on said fitting for holding a fish line.

2,587,737
CAP CLOSURE
Curtis M. Koster, San Francisco, Calif., assignor, by mesne assignments, to Breda, Inc., San Francisco, Calif., a corporation of California
Application November 26, 1947, Serial No. 788,131
1 Claim. (Cl. 215—45)



A closure member for containers comprising an outer cap member having a depending cylindrical flange, an inner cap member concentrically arranged in spaced relation to said outer member and mounted for relative rotative movement therewith, a plurality of circumferentially spaced webs integral with said inner member and depending therefrom, an elongate arcuate arm integral with each web, and extending from one side of the web, with the free ends of said arcuate arms extending into the space between said outer and inner cap members, said arcuate arms being yieldingly swingable about their vertically disposed lines of joinder with said webs to bring them into a position of substantial concentricity with said cylindrical flange, a plurality of spaced projections on the flange of the outer cap member extending into the space between the cap members and operable upon rotation of the outer cap to swing said arcuate arms inwardly of said inner cap member, said arcuate arms being provided at their free ends with outwardly curved tips engageable with one side of said projections when the arcuate arms are in their normal position to prevent relative rotation between said cap members in one direction and engageable with the opposite sides of said projections to prevent further relative rotation between said cap members in the opposite direction after relative rotation between said cap members in said opposite direction has swung said arcuate arms to a position of concentricity with the flange of the outer member.

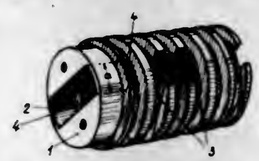
2,587,738
CONTAINER CLOSURE
Curtis M. Koster, San Francisco, Calif., assignor, by mesne assignments, to Breda, Inc., San Francisco, Calif., a corporation of California
Application October 9, 1948, Serial No. 53,650
3 Claims. (Cl. 215—45)



2. A closure member for containers which comprises an outer cap member having a depending cylindrical flange portion, an inner member concentric therewith and spaced therefrom and having a peaked central portion axially engaging the top of said outer cap member and a plurality of depending arms attached thereto, a channeled cam member attached to each arm for pivotal movement about a vertical axis, the channel thereof facing the inside wall of the cylindrical flange portion and the cam portion extending radially inwardly, said channeled cam members being spaced circumferentially to define an opening into which the neck of the container may be inserted, a rotary bearing positioned in each channeled cam member between the cam portion and the depending flange to provide rolling bearing contact between the back of the cam portion and the outer cap, a gasket member affixed within the inner member adapted to engage the top of the container when the closure is inserted thereover and to hold the inner member against rotation while a rotary movement is imparted to the outer cap member to cause the rotary bearings to ride in the channels of the channeled cam members and force the cam portions inwardly to engage the neck of the container.

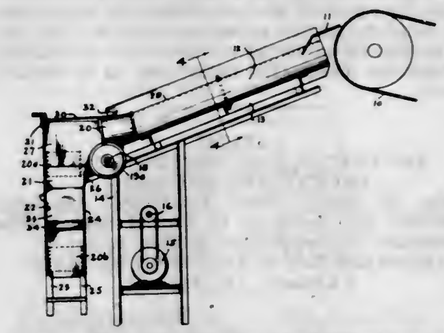
2,587,739
TUMBLER LOCK PLUG
Paul Albert Kunz, Geneva, Switzerland, assignor to Mefina S. A., Binningen, a corporation of Switzerland
Application August 13, 1946, Serial No. 690,261
In Switzerland September 3, 1945
2 Claims. (Cl. 70—375)

1. A cylinder for a security lock provided with a series of tumblers movable perpendicularly to the axis of the cylinder, in which the said cylinder is formed by a body portion having an internal axially extending key opening oblong in cross-section and having narrow and wide walls, a plurality of axially spaced and circumferential grooves equal to the number of tumblers with which the lock is provided, said circumferential grooves being of a width equal to the thickness of the tumblers and of a depth greater than ½ the difference between the external diameter of the cylinder and the transverse dimension of the wide walls of the key opening, but of a depth



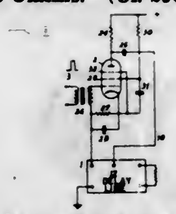
less than ½ the difference between the external diameter of the cylinder and the transverse dimension of the narrow walls of the key opening so that the circumferential grooves communicate with the key opening through the narrow walls thereof, to provide diametrically disposed openings for reception of the tumblers, the wide walls of the key opening and the side walls of the grooves serving as guides for the tumblers.

2,587,740
CAN ALIGNER AND CONVEYER
Roy Francis Laughlin, Orlando, Fla.
Application March 3, 1951, Serial No. 213,742
8 Claims. (Cl. 209—72)



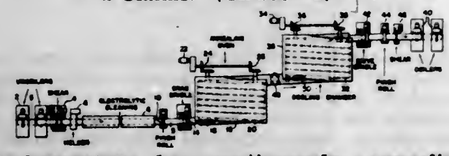
1. In a device for aligning and conveying cans, means for delivering cans to said device; a plurality of adjacent aligning chutes over which the cans are dumped from said means, each of said chutes being inclined downwardly from the zone of delivery thereto to permit the cans to slide theredown under the influence of gravity, and each of said chutes having a floor generally concave in cross-section of a width to permit the cans to center themselves end to end, longitudinally of the chutes; a pair of friction wheels located at the lower end of each of said chutes, the wheels being spaced apart less than the diameter of the cans to cause the cans to center themselves therebetween; means for revolving said wheels to have their upper sides travel in the direction of the down-sliding cans; a hopper ahead of said wheels; an elastic tongue extending over said hopper and spaced above the tops of said wheels of each pair on a center line therebetween to engage frictionally the upper sides of the cans as said wheels grip the cans and carry them under the tongue; front and rear walls extending downwardly from said hopper, spaced apart a distance to receive said cans endwise and with no appreciable play therebetween; and conveyor means at lower portions of said walls onto which said cans may drop.

2,587,741
PULSE SHAPING CIRCUIT
Louis-Joseph Libois, Paris, France
Application December 28, 1948, Serial No. 67,744
In France February 9, 1948
2 Claims. (Cl. 250—27)



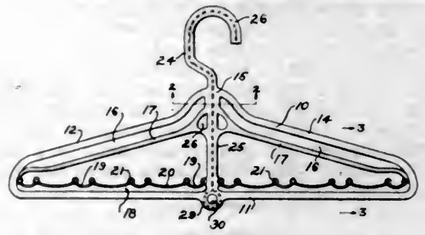
1. In an electronic device for time division multiplex communication systems, a pulse shaping circuit for transforming a single pulse signal of predetermined polarity into a complex signal comprising a plurality of pulses of different polarities, said circuit comprising an electronic tube with at least a cathode, a control grid and an anode, means for applying to said control grid the single pulse signal of predetermined polarity, a delay line with a delay at least equal to the duration of said single pulse, means for connecting the cathode of said electronic tube to one end of said delay line, means for connecting the anode of the tube to a point of said delay line so chosen that the delay between said end and said point be approximately equal to the duration of above-said single pulse, a resistance of value substantially equal to the characteristic impedance and connected to the other end of said delay line, and means for applying voltages from a plurality of tappings along said delay line to a working circuit.

2,587,742
APPARATUS FOR CONTINUOUSLY PROCESSING STRANDS
Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application May 10, 1949, Serial No. 92,346
2 Claims. (Cl. 266—3)



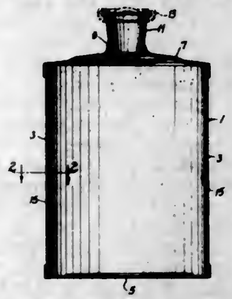
1. Apparatus for continuously annealing strands comprising an annealing furnace for heating a strand therein, a pair of spaced apart continuous strand helical conveying reels one at each end of said furnace, said reels being arranged with their axes transverse to the direction of strand feed, means for feeding the strand to one end of one of the reels, means for discharging the strand from the opposite end of the other of said reels, the strand being heated passing around said reels a plurality of times in a true helical path, a cooling chamber, a pair of spaced apart continuous strand helical conveying reels one at each end of said chamber, said last named reels being arranged with their axes transverse to the direction of strand feed, means for feeding the strand discharged from the annealing furnace to one end of one of the reels in the cooling chamber, said strand passing around said last named reels a plurality of times in a true helical path, and means for discharging the strand from the opposite end of the other of said reels in said cooling chamber.

2,587,743
COAT HANGER
Avis O. Mackey, Homer, N. Y.
Application January 16, 1948, Serial No. 2,789
1 Claim. (Cl. 223—88)



In a garment hanger, a horizontal bar, upwardly and inwardly inclining side arms extending longitudinally inwardly from the opposite ends of said horizontal bar, a hook connected to and rising above the longitudinally inward ends of said side arms, said horizontal bar comprising a longitudinally and vertically extending web having an upper longitudinal edge, said upper longitudinal edge being formed with longitudinally spaced recesses therein for accommodating hanger hooks, a flange extending along said upper longitudinal edge of the web including the recesses, said flange projecting laterally beyond the opposite sides of said web, and transversely extending bars secured upon said flange and rising thereabove at the opposite ends of the recesses.

2,587,744
PRESERVATION OF ETHER
Edward Mallinckrodt, Jr., St. Louis, and Archie E. Ruehle, Kirkwood, Mo., assignors to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
Application February 12, 1949, Serial No. 76,142
7 Claims. (Cl. 220—64)

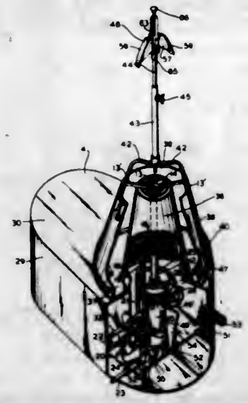


1. A container for ether comprising a container member and a coating on the interior of said container member, said coating comprising cupric oxide and a tin oxide.

2,587,745
SELECTIVELY OPERATED GARMENT FINISHER
Edward C. Maurer, St. Paul, Minn.
Application December 18, 1946, Serial No. 716,986
6 Claims. (Cl. 223—70)

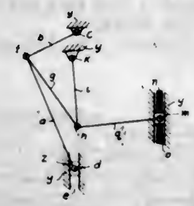
1. A garment finisher including a sheet metal base, an electric motor and air blower positioned within said base, a jacket mounted on said base having a closed bottom, a steam supply ring positioned in the lower portion of said jacket having outlets formed in the lower surface thereof

adapted to direct steam downwardly to said closed bottom, a sleeve positioned within said jacket and spaced therefrom, superheater steam coils positioned within said sleeve, means for supplying steam to said coils, a steam outlet ring



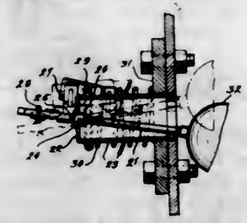
positioned below said coils, means connecting said wet steam ring and said steam outlet ring with the steam supply means and means for selectively directing dry steam or wet steam or hot air from said blower to a garment supported above said jacket to finish the same.

2,587,746
TOGGLE PRESS LINKAGE
Otto Hermann May, Schwabisch Gmund, Germany
Application February 28, 1949, Serial No. 78,763
In Switzerland August 24, 1948
4 Claims. (Cl. 74—520)



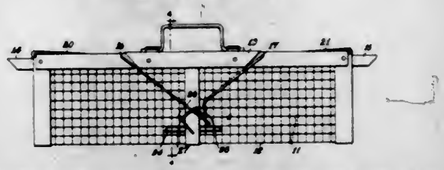
1. In a press, a frame, a combination of a toggle system and an articulated compensating drag link system adapted to produce a mechanical advantage throughout the driving movement of the press which is substantially more uniform than that of which the toggle system alone is capable; said toggle system comprising a crank arm pivoted at a fulcrum and pivoted at a knee joint to a ram-controlling first connecting rod; said drag link system comprising a drag link connected at one end to the toggle system, means establishing a curvilinear trajectory for the other end of the drag link, a driving slide in a guide which extends in a direction substantially parallel with the straightened position of the toggle system and primarily on the side of the toggle system opposite its break side, said trajectory lying primarily between the straightened position of the toggle system and said guide means and being convex toward the fulcrum and having a tangent at one portion which is substantially angled to the guide means and having a second tangent which lies at a smaller angle to the guide means, and a second connecting rod pivoted at one end to the slide and at its other end having an operative connection with the drag link.

2,587,747
PRESSURE CHAMBER LIQUID CONTROL UNIT
Paul J. McCullough, St. Louis, Mo., assignor to Joseph Pavelka, St. Louis, Mo.
Application January 8, 1949, Serial No. 69,898
2 Claims. (Cl. 200—84)



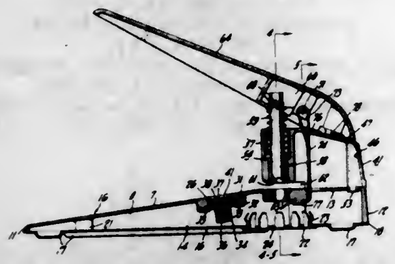
1. In an electrical control unit for actuating a device to maintain a pre-determined liquid level in a pressure chamber, a body having a face plate adapted to be secured to a wall of the chamber, a hollow elongated member secured to said face plate and extending outwardly therefrom, a rod extending through said face plate and from each end of said member, a substantially U-shaped switch carrier secured by its base to said rod and with its legs extending at the sides of said member, a mercury switch mounted on each of the carrier legs, there being a pressure seal between said rod and the outer end of said member providing for tilting movement of said rod and carrier for actuating said switches.

2,587,748
RODENT TRAP
Rupert Merkl, Ossining, N. Y.
Application September 9, 1946, Serial No. 695,782
In Canada June 6, 1946
1 Claim. (Cl. 43—61)



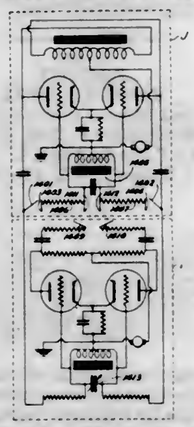
A rodent trap comprising a casing having side walls and a top, said top comprising two doors individually pivotally secured to said casing, two lever members positioned outside of said casing and generally in planes substantially parallel to said side walls, one of said lever members being rigidly connected with one of said doors and the other lever member being rigidly connected with the other door, one of said lever members having a laterally extending detent engaging the other lever member when said doors are in open position and holding said other lever member in the position in which the door connected therewith is open, latch means engageable with the lever member having said portion and holding it in the position in which the door connected therewith is open, and means positioned within the casing and connected with said latch means for actuating the latter to release the lever member having said portion and affording closing of said doors.

2,587,749
PAPER PUNCH
William H. Misson, Los Altos, Calif.
Application April 6, 1948, Serial No. 19,269
2 Claims. (Cl. 164—91)



1. A paper punch comprising a base, a superstructure on said base and therewith providing a paper slot, said superstructure having apertures therein, a pair of plungers, means on said superstructure for guiding said plungers in a straight path to move across said slot, a lever for actuating said plungers, pins for pivoting said lever on said plungers, transversely spaced fulcrum pins on said lever, and wide metal flexible straps looped over said fulcrum pins passing through said apertures and secured to said base for flexibly fulcruming said lever on said base.

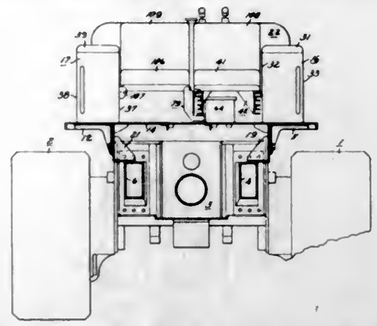
2,587,750
VACUUM TUBE OSCILLATOR SYSTEM
Montford Morrison, Upper Montclair, N. J.
Application November 5, 1948, Serial No. 58,510
5 Claims. (Cl. 250—36)



4. In an electrical oscillation system including an electron discharge tube having a plate, a control grid and a cathode; a load circuit, a cathode-grid circuit including a tank circuit, and a feedback circuit from said load circuit to said tank circuit including an electronic tube amplifier having a variable LC tank circuit in the cathode-grid circuit thereof.

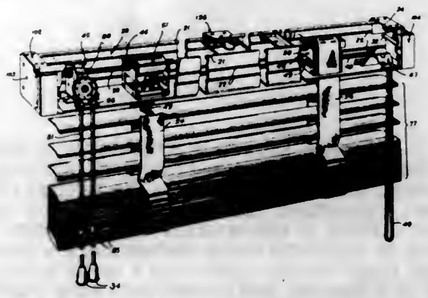
2,587,751
ADJUSTABLE HEIGHT VEHICLE SEAT
Bernard J. Murphy, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 30, 1948, Serial No. 24,195
9 Claims. (Cl. 296—65)

1. A seat frame for selective mounting in raised and lowered positions on a pair of horizontally spaced parallel supporting rails, comprising a pair of front and rear angle irons and a pair of side plate members rigidly secured together so that one flange of each of said angle irons extends within and the other flange of each of said angle irons extends upwardly from a horizontal plane, and so that said side plate members extend downwardly from said plane and between



said angle irons in transversely spaced parallel relation to each other, and channel members formed separately of said side plate members and secured thereto at their web portions so as to extend parallel to said horizontal plane, said channel members being adapted, respectively, to sustain said seat frame in said raised and lowered positions on said supporting rails.

2,587,752
VENETIAN BLIND HEAD BAR ORGANIZATION
Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Original application October 4, 1947, Serial No. 778,002. Divided and this application April 27, 1949, Serial No. 89,883
6 Claims. (Cl. 160—173)

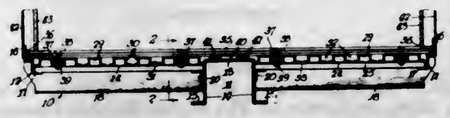


1. In the Venetian blind art, a stamped sheet metal cord lock fitting for mounting in the bottom of a metal headbar channel, said fitting having a U-shaped cord lock housing formed of two generally parallel side walls and a connecting end wall, metal extending from the bottom of one side wall being bent outwardly of the housing and formed into a horizontal mounting flange for resting against the bottom of the headbar channel, said flange having formations to receive securing means for attaching the fitting to the bottom of the headbar channel, and metal extending from the bottom of the other side of the housing being formed with load-bearing portions to rest directly against the bottom of the headbar channel.

2,587,753
METHOD FOR PURIFYING ALCOHOLS
Buell O'Connor and Frank G. Pearce, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application April 26, 1949, Serial No. 89,636
5 Claims. (Cl. 260—643)

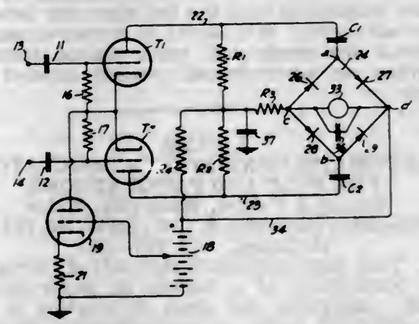
1. An improvement in the boration process for purifying a crude alcohol employing radical interchange between an alcohol and a borate ester of another alcohol, which improvement comprises effecting said radical interchange by countercurrently contacting an alcohol with a borate ester of another alcohol in a distillation zone under extractive distillation conditions, and separately withdrawing from said distillation zone the alcohol and the borate ester resulting from said radical interchange.

2,587,754
FLOOR STRUCTURE FOR RAILWAY FREIGHT CARS
Howard E. Osborn, Michigan City, Ind.
Application July 21, 1950, Serial No. 175,218
11 Claims. (Cl. 105—422)



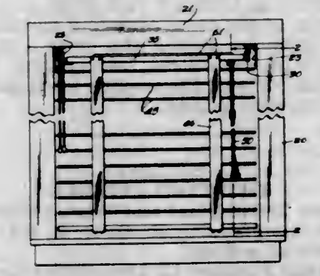
1. In combination with the underframe of a car embodying therein longitudinally extending center and side sills and transverse bearer members between said sills, a sub-floor structure including upper and lower courses of beams, with the beams of one course extending longitudinally of the car and with the beams in the other course extending transversely of the car, the transversely extending beams being supported at one end from the side sills and at their other ends from the center sill, the longitudinally extending beams being supported by said transverse bearer members, the beams in the upper course engaging upon and being secured to the beams in the lower course.

2,587,755
FREQUENCY MEASURING OR INDICATING APPARATUS
David Packard, Los Altos, and Norman B. Schrock, Palo Alto, Calif., assignors to Hewlett-Packard Company, Palo Alto, Calif., a corporation of California
Application March 6, 1948, Serial No. 13,478
6 Claims. (Cl. 250—27)



4. In frequency metering or indicating apparatus, a pair of vacuum switching tubes each having cathode, control and anode elements, means serving to couple the control elements of said tubes to a source of current pulses of alternating polarity, whereby the anode-cathode paths of said tubes are rendered alternately conductive, a response means responsive to the average value of unidirectional pulses applied to the same, a full wave rectifying circuit of the bridge type having two points on the same connected to the response means to deliver unidirectional pulses to the latter and having two other points to which pulses are applied for rectification, a circuit network connecting said vacuum switching tubes to said rectifier circuit to supply pulses to the latter, said network including a source of anode current, a connection from the negative side of said source to the cathodes of said switching tubes, two resistors of like value connected serially between the anodes of the switching tubes, a conductive connection between the positive side of the source of anode current and one of said two first named points of the rectifier circuit, a third resistor connecting the other one of said first named points on the rectifier circuit and the point of connection between said resistors, a fourth resistor serving to connect the point of connection between said like resistors, and the positive side of the source of anode current, and a pair of like condensers each connected between the anodes of an associated switching tube and said two other points on the rectifier circuit, said condensers being charged in response to voltage differences across said two like resistors, the aforementioned third and fourth resistors being of such values as to provide zero current flow through said response means for a given frequency of applied pulses.

2,587,756
CORD GUIDE FOR VENETIAN BLIND TILT RAILS
Ignazio H. Palmisano, Chicago, Ill.
Application March 28, 1950, Serial No. 152,403
1 Claim. (Cl. 160—168)



A Venetian blind installation for window frames comprising supporting brackets attached in the top corners of the frame, a tilt mechanism carried by one supporting bracket, a bearing hanger carried by the other supporting bracket, a tilt rail suspended operatively between the tilt mechanism and the bearing hanger, a conventional Venetian blind suspended from the tilt rail, and a lifting mechanism associated with the tilt rail and including cords trained over the same, guide means near the side edges of the tilt rail for continuing said cords in downward direction to assume positions inwardly of the blind tapes, such guide means occurring opposite alternate tapes of the blind and including cavities in the edges of the rail, pins driven through said cavities transversely into the rail and with outer ends project-

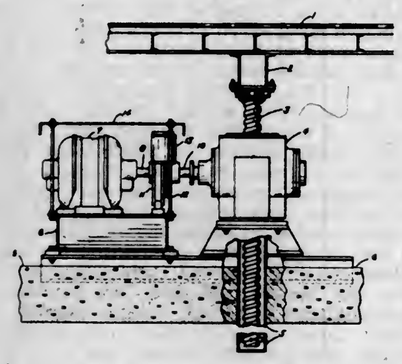
ing slightly from the rail edges, and rollers slidable on the pins from the outside to positions guiding said cords where they assume the downward course, said tapes lying against the outer ends of the pins to normally clear the rollers but form guards for them in case they assume an outward sliding tendency.

2,587,757

RESILIENT STOP FOR SCREW ELEVATORS

Carl Panter, Toledo, Ohio, assignor to Haughton Elevator Company, Toledo, Ohio, a corporation of Ohio

Application November 9, 1950, Serial No. 194,852
3 Claims. (Cl. 187—24)



3. In an elevator, in combination, an elevator car frame, a screw threaded column for supporting the frame, a base, a nut threaded on the column and journaled in the base for supporting the column, a motor operatively connected to the nut, means on the bottom of the column to lock with the nut when the column reaches its upper limit of travel, a cross arm on the upper end of the column, a pair or stops on the frame, bolts extending through said stops and the adjacent ends of the cross arm, and springs sleeved on said bolts for urging the cross arm against the stops and permitting said column to rotate against the force of the springs when said means locks the column to the nut.

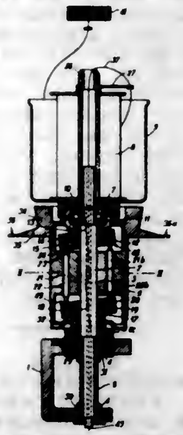
2,587,758

TWISTING SPINDLE

Jean Louis Pellat-Finet and Marcel Riffet, Lyon, France, assignors to R. O. B. E. SA, Geneva, Switzerland, a firm

Application January 18, 1949, Serial No. 71,448
In France May 14, 1948
6 Claims. (Cl. 57—58)

1. A twisting spindle comprising a hollow central shaft for the inward passage of the thread, means for rotating said shaft, a fixed tubular member and a rotatable one arranged concentrically with said hollow shaft in spaced relation with one another, a support for a supply of thread secured to said rotatable tubular member, each of said tubular members being formed with a cylindrical seat each having an inclined axis with respect to the axis of said shaft and the axes of said cylindrical seats being parallel, an annular member rotatably mounted on each of said inclined cylindrical seats, and connecting members between said two annular members for constantly holding them in two parallel planes, oblique to the axis of said shaft, whereby the rotatable tubular member is obliged to keep its axis stationary, that is to say to remain stationary as well as



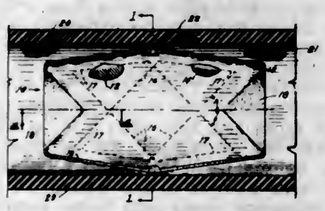
the thread support secured to it, the thread being thus given a double twist.

2,587,759

TIRE PATCH

Lloyd L. Pierce and Edward J. White, Denver, Colo., assignors to The Gates Rubber Company, Denver, Colo., a corporation of Colorado

Application April 1, 1949, Serial No. 84,786
1 Claim. (Cl. 152—367)



A tire patch having layers of cords which cross each other at the same angle as the cords of a tire to which the patch is to be applied, the cords of each layer extending beyond the crossing area of the layers, the length of the cords of each layer from their ends to the point of juncture of a crossing cord varying uniformly across the width of a layer, whereby their ends lie in a line oblique to a crossing cord, a layer of semicured unreinforced rubber on one side of the patch, the patch being preformed to conform to the shape of the tire, and a layer of uncured unreinforced rubber on the other side of the patch adapted to abut the tire when the patch is inserted therein, said layers of rubber extending beyond the cords and being joined together forming an unreinforced margin around the cords.

2,587,760

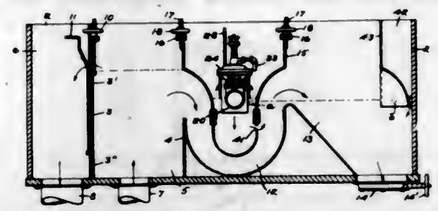
AUTOMATIC CONSISTENCY REGULATOR FOR PULP AND PAPER STOCKS

Ernest A. Poirier, Waterville, Maine

Application November 8, 1947, Serial No. 784,822
13 Claims. (Cl. 137—78)

1. That improvement in methods of regulating the consistency of a stream of paper-making stock, comprising the steps of creating a flow of said stock under an approximately constant head and in a confined stream, interposing a resistance to said flow in a part of said stream

so that variations in consistency of the stock will produce corresponding variations in hydrostatic pressure in another portion of said stream, and maintaining a supply of diluting water under a constant head where it is in communication constantly with a part of said stream in which



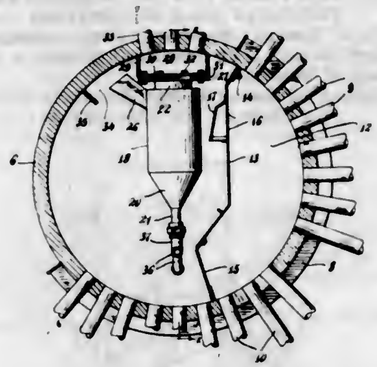
the head varies with changes in consistency, so that diluting water will flow automatically into said stock from said supply whenever its head exceeds that of the stock in the part of said stream in which the head varies with changes in its consistency.

2,587,761

MEANS TO SEPARATE WATER AND FOREIGN SUBSTANCES FROM STEAM

John V. Pyle, Pleasantville, N. Y., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y., a corporation of Delaware

Application October 25, 1949, Serial No. 123,389
4 Claims. (Cl. 183—83)



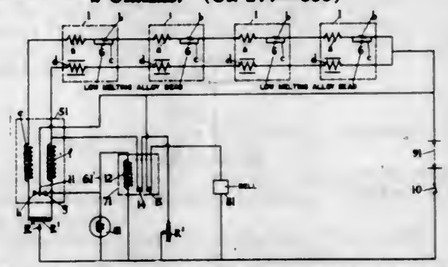
1. In means to separate water and foreign substances from steam, a steam and water drum having steam outlet tubes in the upper wall portion and said drum arranged with a longitudinal steam pocket in the upper portion thereof, a cyclone separator mounted in the drum and having a separated steam outlet in the upper end communicating with the steam outlet tubes of the drum, a water and foreign substances outlet in the lower end and a steam inlet extending into the steam pocket of the drum and extending tangentially into the upper portion of the separator, and a manifold extending longitudinally of the bottom portion of the drum and through an end wall of the drum and connected in communication with the water and foreign substances outlet of the cyclone separator for the discharge of water and foreign substances from the drum.

2,587,762

FIRE ALARM APPARATUS

Michael P. Reece, London, England, assignor, by mesne assignments, to Pyroban Developments Limited, Manchester, England, a body corporate of Great Britain

Application November 18, 1948, Serial No. 60,790
In Great Britain November 25, 1947
2 Claims. (Cl. 177—355)



1. A fire alarm apparatus comprising in combination a current source; a detector head; a first resistor element and a second resistor element arranged in said head and each connected with one end thereof to a terminal of said current source; a polarized relay having a first coil and a second coil wound in opposition to said first coil, said first coil being connected in series with said first resistor element and said second coil being connected in series with said second resistor element; a potentiometer connecting said first coil and said second coil with each other so as to provide a balanced circuit at normal temperatures; a reed arranged between said coils of said polarized relay for deflection out of its normal position by any out-of-balance currents flowing in said polarized relay; a contact arranged at the free end of said reed; a secondary circuit energized by the closing of said contact of said reed so as to be closed when an out-of-balance current flows in said polarized relay; a first relay in said secondary circuit, said first relay being energized when an out-of-balance current flows in said polarized relay; a pair of contacts operated by said relay so as to be closed upon the energization thereof; a warning device connected in series to said pair of contacts so as to be operated when an out-of-balance current flows in said polarized relay; a second relay connected to said current source; a first pair of contacts operated by said second relay and connected in series to said reed, said first pair of contacts opening when the current through said second relay falls below a predetermined value and thus interrupting said secondary circuit in order to prevent a spurious operation of said warning device; a second pair of contacts operated by said second relay, said second pair of contacts closing when the current through said second relay falls below the predetermined value; and a fault-indicating device connected to said second pair of contacts so as to be operated by the closing thereof simultaneously with the opening of said first pair of contacts of said second relay.

2,587,763

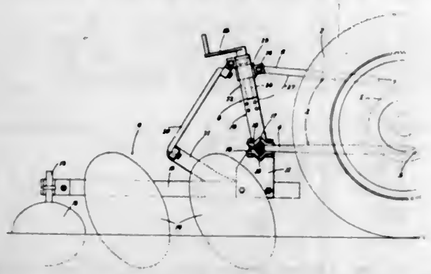
ADJUSTABLE HITCH FOR DIRECT CONNECTED IMPLEMENTS

Edward J. Rimple, Santa Clara, Calif., assignor to Rimple Manufacturing Co., Santa Clara, Calif., a corporation of California

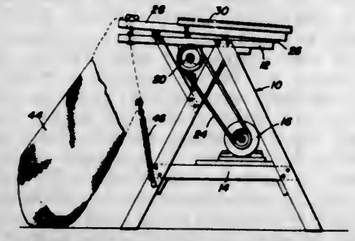
Application May 29, 1948, Serial No. 30,167
1 Claim. (Cl. 97—50)

A hitch to direct-connect a longitudinally extending implement frame to a tractor draft unit

for vertical tilting adjustment of said frame, said draft unit including a pair of transversely spaced lower draft links and a central upper draft link; the hitch comprising an A-frame unit upstanding from and rigid with the implement frame at its forward end, means pivoting the lower draft links on the A-frame unit at its lower end, said unit including transversely spaced arms, the upper portions of which are parallel to each other, an adjustment screw mounted against axial movement in the A-frame unit and depending between said parallel arm portions, a slide nut guided by said arm portions and through which the screw projects, and a pivotal connection between the upper draft link and said nut in front of the A-frame unit.



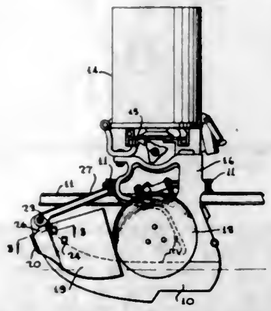
2,587,764
RHUBARB CLEANING MACHINE
Fred H. Rohrbach, Kansas City, Kans.
Application January 4, 1950, Serial No. 136,725
1 Claim. (Cl. 146—49)



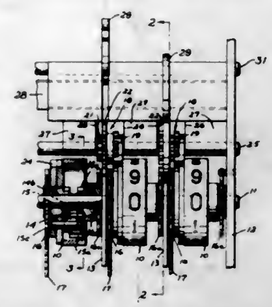
A vegetable peeling machine comprising a frame, a peeling paddle rotatably mounted on said frame, a vegetable support for positioning vegetable stalks in the path of travel of said paddle for breaking and stripping the peel therefrom, said support comprising a cover overlying said paddle, said cover having an opening therein for receiving vegetable stalks, said frame including a frame element hinged to a main portion of said frame, said cover being carried on said element, a bag disposed for receiving peels removed by said paddle, spring means urging said element upwardly from said frame, clamp means adjustably limiting said upward movement, means on said frame to hold one portion of the mouth of said bag, and an extending portion on said element opposed to said last mentioned means and comprising means to spread and hold another portion of the mouth of said bag.

2,587,765
AUXILIARY FURROW OPENER
Frederick E. Rohrer, Paola, Kans.
Application September 19, 1950, Serial No. 185,564
1 Claim. (Cl. 97—225)

An auxiliary furrow opener for a runner equipped seed planter comprising quadrant shaped plates arranged in superposed relationship with their edges substantially in alignment, said plates being joined together at one end of the curved edges thereof and with the adjacent portions of said plates spaced apart to receive the front end portion of a runner therebetween, said plates having registering apertures therein spaced from the juncture therebetween, and a bolt extending through said apertures in position to bear on the adjacent edge of a runner received between the portions of said plates adjacent the juncture therebetween, said plates diverging rearwardly and downwardly from the respectively opposite sides of a runner on which said auxiliary furrow opener is mounted and the curved edges of said plates constituting the bottom edge of said auxiliary furrow opener.

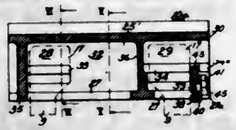


2,587,766
DISCONNECTIBLE TRANSFER MECHANISM FOR SETTABLE REGISTERS
Francis J. Rouan, Stamford, Conn., assignor to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application March 4, 1949, Serial No. 79,565
3 Claims. (Cl. 235—133)



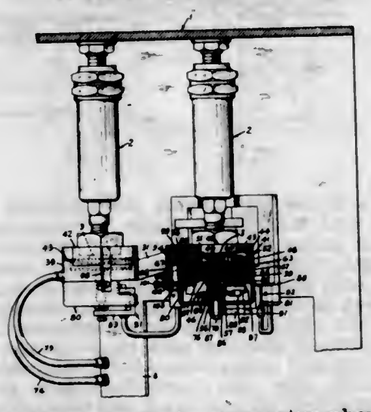
1. In resettable value registering mechanism in combination, numeral wheels rotatively supported on a shaft, each numeral wheel including a differential drive therein and having an actuator driven gear and a tens transfer driven gear associated therewith, tens transfer means associated with successive pairs of numeral wheels comprising a Geneva pinion having a splined extension and operatively associated with one numeral wheel, and a transfer pinion having a splined opening arranged for axial adjustment along the splined extension into or out of mesh with the tens transfer driven gear of the numeral wheel of next higher order, and means to normally retain the transfer pinion in meshed relation with the tens transfer driven gear.

2,587,767
DETACHABLE HAMMER HEAD FOR ROTARY BEATERS
Alexander J. Roubal, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application June 14, 1951, Serial No. 231,601
12 Claims. (Cl. 241—197)



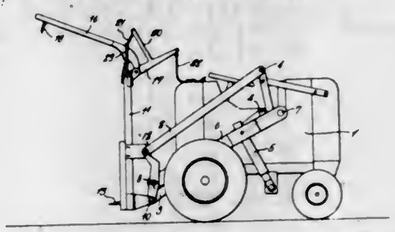
1. A hammer for a rotary impact breaker of the type which has a pair of parallel, radially extending hammer arms each having at the radially outer end thereof an enlarged head portion and an adjacent relatively narrow neck portion, said hammer comprising: a pair of elongated, spaced, generally rectangular breaker bar portions having oppositely facing impact surfaces and rear surfaces; said rear surfaces forming therebetween, adjacent one end of said hammer, a first longitudinally extending channel portion having an end opening for receiving the head and neck portions of one of said arms longitudinally through said one end of said hammer; said rear surfaces forming therebetween and intermediate the ends of said bar portions an assembly slot for receiving the head and neck portions of one of said arms from a radial direction; said rear surfaces forming therebetween, at the end of said hammer opposite said first channel portion, a second longitudinally extending channel portion which communicates with said assembly slot to allow the head and neck portions of one of said arms in said slot to enter said second channel portion; and at least two longitudinally extending ridges in each of said channel portions projecting respectively from said rear surfaces of said bar portions, the crests of said ridges being spaced transversely apart a distance less than the width of the head portion of one of said arms but greater than the width of said neck portion.

2,587,768
SPINNING APPARATUS
Robert H. Roughsedge, Ramsey, N. J., and Hans G. Lustig, New York, N. Y., assignors to Celanese Corporation of America, a corporation of Delaware
Application July 13, 1948, Serial No. 38,516
20 Claims. (Cl. 18—8)



1. In a filament spinning apparatus wherein a filament-forming material is passed through a hardening medium, a spinning jet having at least one spinning orifice and having one surface exposed to the hardening medium, pressure means for forcing a filament-forming material through said spinning jet and into the hardening medium, and means relatively movable with respect to the spinning jet for sealing the exposed surface of said spinning jet from the hardening medium in said spinning apparatus, said latter means being carried by said spinning apparatus and normally out of contact with the exposed surface of said spinning jet.

2,587,769
BALE STACKING AND UNSTACKING MACHINE
Malcolm A. Rowe, Comer, Ga., assignor to Rowe Warehouse & Fertilizer Company, Athens, Ga., a partnership
Application April 5, 1948, Serial No. 18,954
5 Claims. (Cl. 214—66)



1. A stacking and unstacking machine for bales of penetrable material, including the combination of forwardly extending lifting spikes, for penetrating and thus engaging the bale, and a steadying means for retarding swinging of the bale thus lifted, with said lifting spikes carried by and projecting from a lifting mounting and said spikes arranged in a group no wider than bales to be stacked, said steadying means comprising vertically moving spikes carried by said mounting by associating therewith through an operating device also no wider than the bales to be stacked, said lifting mounting comprising a vertical abutment supported by a parallel lever system maintaining it vertical during swinging in a vertical plane, and with said system provided with powering means and working from a truck unit.

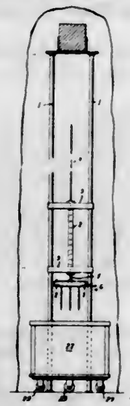
2,587,770
FISHING NET
Hugo E. Schatz, Detroit, Mich.
Application July 11, 1947, Serial No. 760,252
6 Claims. (Cl. 43—12)



1. A folding fishing net comprising an articulated frame and a piece of netting mounted thereon and connected to said frame at the periphery thereof, said frame comprising a central portion having the form of a rectangle, four side sections of rectangular shape with the inner sides thereof open to provide free ends, the ends of said side section at said open side having loops provided thereon and embracing the central portion at the corners thereof for hinged connection thereto and said side section being foldable against the underside of said central portion, and means formed on said ends and said

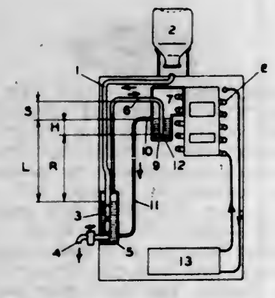
corners adapted to limit the movement of said side sections from their respective folded position against the bottom side of said central portion to about 90 degree angles with respect to the top side of said central portion.

2,587,771
APPARATUS FOR DETERMINING MOISTURE CONTENT OF TOBACCO
Alexander W. Schoenbaum and John T. Ashworth, Richmond, Va., assignors to The American Tobacco Company, New York, N. Y., a corporation of New Jersey
Application April 20, 1950, Serial No. 157,034
2 Claims. (Cl. 175—183)



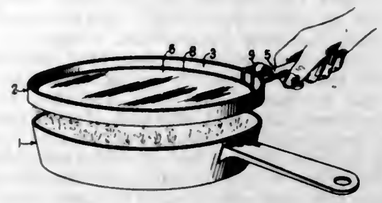
1. Apparatus of the character described comprising a pair of vertical guide members, a pair of transverse members connected to the guide members, an air cylinder supported by the transverse members, a piston in the cylinder, a piston rod connected to the piston and projecting from the bottom of the cylinder, an electrode member secured to the piston rod, the electrode member consisting of a box-like structure of appreciable area having a flat lower surface adapted to engage the surface of material to be tested, two series of electrode prongs extending downwardly from the lower surface of the electrode member, and an electric terminal connected to each set of electrodes.

2,587,772
WATER COOLER
Arthur Seligman, Newark, N. J.
Application July 12, 1949, Serial No. 104,251
4 Claims. (Cl. 62—125)



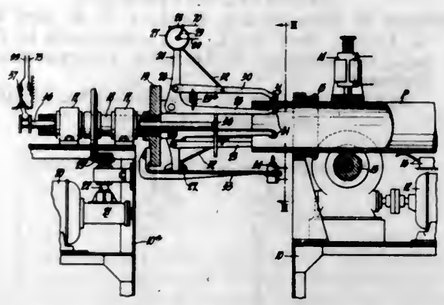
1. Method of controlling the evaporator temperature of a secondary refrigerating cycle in which a liquid refrigerant is evaporated to produce the cold, its vapors subsequently re-condensed at a higher level at lower temperature and pressure, and the liquid fed back to the evaporator by gravity, whereby a constant difference between condensing and evaporating pressures is maintained by passing the vapor on its way from evaporation to condensation through a column of the liquid refrigerant, which is held at a constant height.

2,587,773
PAN LID TO ABSORB GREASE
Mary W. Sell and Frank A. Sell, Los Angeles, Calif.
Application April 3, 1950, Serial No. 153,506
2 Claims. (Cl. 183—1)



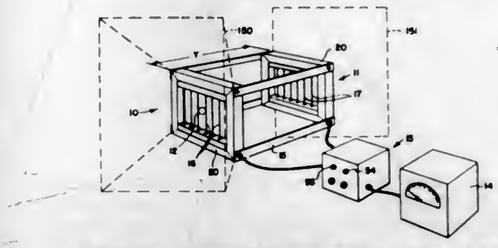
1. A pan lid to absorb grease comprising a metal ring which is shaped to fit the top of a frying pan, an inwardly extending flange in said metal ring, a disc of grease absorbing material resting on said flange, a handle secured to said metal ring, and a metal ring of substantially the same size as said flange and which normally rests on said flange and said disc.

2,587,774
GAUGING AND MARKING DEVICE
Andrew T. Shack, Brentwood, and William L. Zemberry, Pittsburgh, Pa., assignors to United States Steel Company, a corporation of New Jersey
Application September 7, 1950, Serial No. 183,604
14 Claims. (Cl. 33—143)



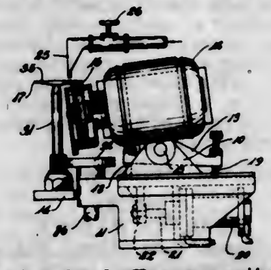
1. A device for gauging the thickness of pipe walls and marking a plane for cropping comprising gauge means, means for relatively feeding and withdrawing a pipe length toward and from said gauge means, said gauge means being adapted to traverse the pipe wall longitudinally while the pipe feeds relatively theretoward, means for relatively rotating said gauge means around the pipe, said gauge means being adapted to traverse the pipe wall circumferentially as it rotates relatively therearound, and means for marking the plane at which said gauge means traverses the pipe wall circumferentially.

2,587,775
APPARATUS FOR DETERMINING THE SPEED OF OBJECTS
Donald F. Sheldon and George F. Jenkins, Minneapolis, Minn.
Application May 6, 1950, Serial No. 160,482
5 Claims. (Cl. 161—18)



1. Novelty apparatus for sensing the presence of a thrown baseball at any point on a predetermined plane surface area without interrupting its flight, comprising, a four sided frame member defining the periphery of said plane surface area, a plurality of wire like members of flexible material, a plurality of springs each mounted at one extremity on diametrically opposed sides of said frame member and mounting one of said wire like members at the other extremity thereof such that said wire like members stretch between said sides of said frame in spaced parallel relationship to define said plane surface area, said wire like members being spaced apart slightly less than the diametrical dimension of a baseball such that a thrown baseball may pass between said wire like members moving said members slightly apart and slightly forward from their position in said plane surface area, a plurality of contact means mounted on said frame and each including a stationary and a moveable portion biased together in a normal circuit closure position, and means included on each of said moveable portions of said contact means encircling respectively one of said wire like members.

2,587,776
APPARATUS FOR BUFFING FLEXIBLE ARTICLES
Frank Slusher, Carpinteria, Calif., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 24, 1947, Serial No. 763,281
7 Claims. (Cl. 51—108)



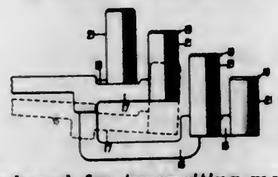
1. Apparatus for buffing an article having a flexible flange, said apparatus comprising rotatable buffing means, means for supporting and rotating the article at said buffing means with its flange near an operating face of the buffing means, means for effecting relative translational movement of said article and said buffing means, and means for directing a flow of fluid against the flange of the article for deflecting said flange into contact with said buffing means.

2,587,777
CLEANING AND RUSTPROOFING COMPOSITION
Chester W. Smith, Detroit, Mich., assignor to Detrex Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application April 30, 1937, Serial No. 745,123
1 Claim. (Cl. 106—14)

A cleaning and corrosion resistant composition consisting of the following ingredients in substantially the stated proportions:

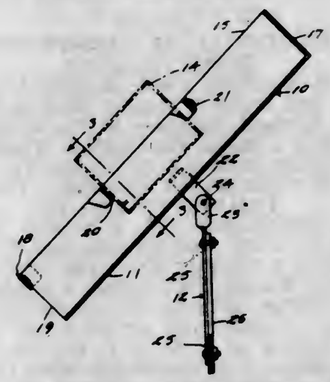
	Grams
Kerosene	80
Triethanolamine oleate	14
Cobalt naphthenate (Technical 6%)	6
Water	5–5000

2,587,778
TYPEWRITER KEYBOARD
Raymond L. Smith, Arlington, Va.
Application April 6, 1949, Serial No. 85,768
11 Claims. (Cl. 197—98)



6. A keyboard for typewriting machines having four transverse rows of key heads, the upper or striking surfaces of the heads in each of the rows behind the first row extending at progressive elevations, each of said latter heads having a wall depending into the keyboard a distance at least equal to the distance between the normal striking surfaces of the heads in adjacent transverse rows plus a distance at least equal to the depression stroke of the key, and a key lever on which each head is mounted, the levers mounting the first and second rows of heads having substantially U-shaped key clearance portions, and at least a portion of the bases of the heads of the third and fourth rows when in depressed relation being disposed within said U-shaped portions.

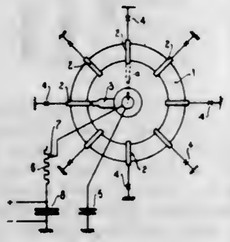
2,587,779
OIL CAN DRAIN RACK
Mike Fred Smith, Biwabik, Minn.
Application March 8, 1946, Serial No. 653,224
1 Claim. (Cl. 222—112)



A drain rack comprising a V-shaped trough open at one end thereof, a pair of transverse flat

elongated receptacle supporting strips intermediate the length thereof spaced from the apex of said trough, a pair of downwardly extending apertured spaced apart ears fixed below said trough midway of the length thereof, an elongated L-shaped drain rack supporting bar, means pivotally connecting one leg of said L-shaped supporting bar between said ears for adjusting the angular disposition of the length of said trough relative to said supporting bar, and locking means associated with the pivotal connection for locking said trough in a selected angularly adjusted position.

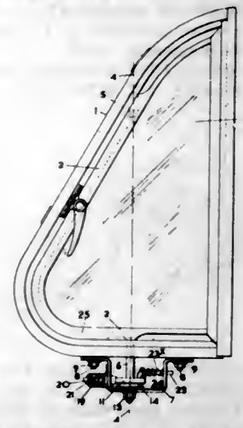
2,587,780
ELECTRICAL IGNITION SYSTEM
Wytze Beye Smits, Voorburg, Netherlands, assignor to Smitsvonk N. V., The Hague, Netherlands
Application January 15, 1949, Serial No. 71,115
In the Netherlands December 13, 1948
4 Claims. (Cl. 313—149)



1. A distributor for low tension electrical ignition systems in which condenser operated surface discharge spark plugs are directly connected to the condenser in succession by the distributor, said distributor consisting of a number of fixed contacts and a rotor arm cooperating therewith, characterized in that the active surface of each fixed contact of the distributor and the active surface of the rotor arm thereof circumferentially extend through arcs, the sum of which is less than 10° so as to give less than 3% variation of the spark frequency of each spark plug.

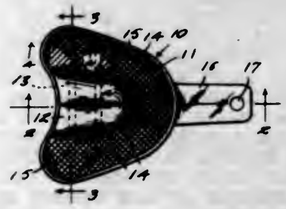
2,587,781
PIVOTED VENTILATOR WINDOW OF MOTOR ROAD VEHICLES
James R. Stanfield, Castle Bromwich, Birmingham, and Leslie N. Hughes, Rednal, Birmingham, England, assignors to The Austin Motor Company Limited, Birmingham, England
Application October 6, 1950, Serial No. 188,774
In Great Britain November 2, 1949
4 Claims. (Cl. 296—44)

1. In combination with a pivoted ventilator window for motor road vehicles, and of the kind referred to, a member which has pivotal movement with the window and has a number of locating notches, corresponding to the closed position and predetermined air-extracting positions of the window up to about 45 degrees from the closed position, a spring-loaded detent for engaging any of said notches to locate and hold the window in any of said positions, and spring means connected to said ventilator window and reactable with a fixed bracket for freely impelling the



window in the same direction beyond the last of said notches to an air intake position.

2,587,782
DENTAL TRAY
Harold W. Stark, Marinette, Wis.
Application June 26, 1950, Serial No. 170,400
1 Claim. (Cl. 32—17)

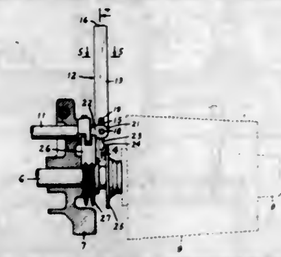


A dental tray comprised of transparent moldable plastic material including a plate of a planar and cross sectional configuration to conform to the outline of the human gum structure having a concave portion adapted to hold moldable material for the reception of an impression of the gum, said concave portion having a plurality of apertures therethrough, a centrally positioned convex portion beneath which the tongue is adapted to fit, transversely extending ribs on the underside of said convex portion, there being two series of shallow closely spaced score lines arranged interiorly of and covering the entire interior of said concaved portion, the score lines in each series being arranged parallel, and the score lines in one series intersecting the score lines in the other series, a finger grip portion extending from a central point of said plate adapted to extend exteriorly of the mouth.

2,587,783
STARTER HANDLE
William T. Stearn, Cumberland, Md., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application July 27, 1950, Serial No. 176,142
5 Claims. (Cl. 242—18)

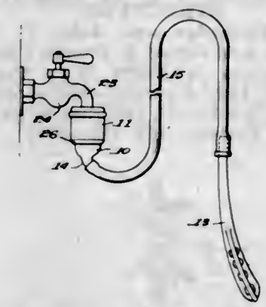
1. In a yarn winding device including a rotatable spindle, a yarn package holder on said spindle, drive means for said spindle and a rotatable rod adapted on being rotated to actuate said spindle drive means, the combination therewith of a handle adapted to rock in a plane to rotate

said rod, means operatively connecting said handle to said rod, said connecting means including a pivotal mounting whereby said handle may be tilted out of the above-mentioned plane,



and means cooperating with said handle and said pivotal mounting allowing the position of said handle relative to the pivotal mounting to be shifted in a vertical direction.

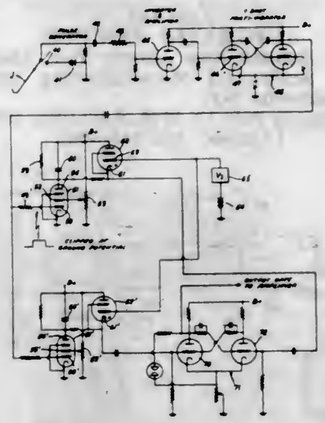
2,587,784
VAGINAL DOUCHE
Robert K. Story, Jr., New York, N. Y.
Application March 29, 1950, Serial No. 152,615
1 Claim. (Cl. 128—229)



In a water faucet douche, the combination which comprises a tubular casing having an internal annular shoulder at the lower end thereof, a transversely positioned strainer in the lower end thereof on the shoulder and having an arcuate nipple extended from the said lower end below the shoulder, an external annular shoulder on said casing above said internal annular shoulder, and an adapter having an opening therethrough and having an annular recess and an inwardly extended annular resilient flange in the upper end above the recess and an exterior bead in line with said recess and internal threads below said recess whereby said adapter is threaded on the said tubular casing until the lower edge of said adapter engages the external annular shoulder on said casing.

2,587,785
RAIL FLAW DETECTOR MECHANISM
Robert N. Straehl, Danbury, Conn., assignor to Sperry Products, Inc., Danbury, Conn., a corporation of New York
Application November 26, 1949, Serial No. 129,579
17 Claims. (Cl. 175—183)

1. In a rail flaw detector car having driving means adapted to move the car over rails connected by joints, said car having means for energizing the rail with flux, means responsive to variations in said flux caused by defects in the rail, indicating means including an electronic amplifier actuated by said responsive means, said responsive means responding also to variations in flux caused by the joint, means responsive to joints, means actuated by said last-named responsive means for generating an electrical pulse when said flux responsive means approaches the region of flux affected by the joint, a flip-flop



circuit for generating and cutting off voltages, said circuit being connected to said amplifier to render it effective and ineffective, and means whereby said electrical pulse actuates said flip-flop circuit in a direction to render said amplifier ineffective.

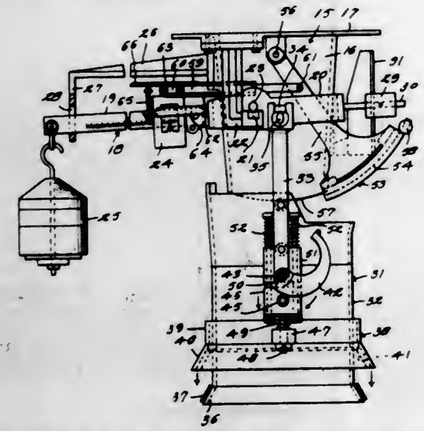
2,587,786
MECHANICAL LEAD PENCIL
Karl Josef Svensson, Sundbyberg, Sweden
Application September 22, 1949, Serial No. 117,209
In Sweden November 8, 1948
1 Claim. (Cl. 120—18)



A mechanical lead pencil including a casing having a helicoidal groove on the inner wall thereof, a sleeve having a longitudinal slot therein disposed within said casing, a second lead holding and feeding sleeve mounted within said first sleeve and having a pin thereon passing through the slot in the first sleeve and cooperating with the helicoidal groove in the casing, a pencil tip having a central bore therethrough surrounding both said sleeves and secured to one end of said first sleeve so that upon rotation of said tip cooperation between said pin and groove effects feeding of the second sleeve longitudinally of the casing dependent upon the direction of rotation of the tip, one end of said casing bearing against the inner end of said tip and said tip having a portion bearing against one end of said groove, said tip being longitudinally displaceable relative to said casing, a loose ring member within said casing surrounding said first-mentioned sleeve and bearing against the other end of said helicoidal groove, a second ring member within said casing and carried by said first-mentioned sleeve and disposed in longitudinally spaced relation relative to said first-mentioned ring member, a spring between the ring members normally pressing said loose ring against the adjacent end of said groove so that upon excessive rotation of said first-mentioned sleeve in either direction the resilience of the spring and

the movability of the tip with respect to the casing permits the pin to escape through the ends of the groove and rotate freely outside the respective ends of the groove.

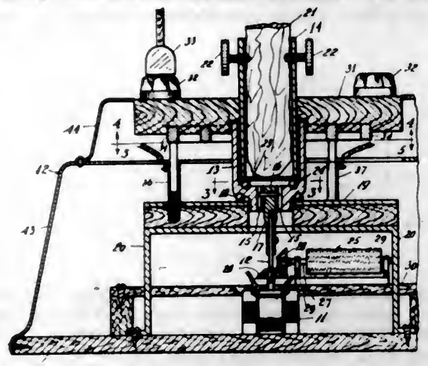
2,587,787
AUTOMATIC WEIGHER
Lester G. Sublett, New Albany, Ind., assignor to Signal Scale and Manufacturing Company, Inc., Louisville, Ky.
Application July 19, 1949, Serial No. 105,471
1 Claim. (Cl. 249—58)



A bagging scale comprising a hopper throat for securing to the discharge end of a hopper, a gravity closing valve at the lower end of said throat, a horizontally disposed bar fixed relative to said throat, a pair of pivotally connected links connected between said valve and said bar, a solenoid housing fixed relative to said throat, a second pair of pivotally connected links, means pivotally securing one of said second named pair of links to said housing, a slide bar extending from the other of said second named pair of links, a guide for said bar carried by said valve, a spring interposed between said guide and the adjacent end of said other link, said spring holding said valve in partly open position when said first named links are broken, a balance beam rockably carried by said throat, a release member carried by said beam engageable with the joint between said first named pair of links to move the latter to valve released position when said beam is substantially horizontal, said spring holding said valve in partly open position, a solenoid in said housing having the core thereof confronting the connection between said second pair of links, a switch connected with said solenoid, and a switch operator carried by said beam for closing said switch when said beam is in balanced position whereby the core of said solenoid will move said second pair of links to valve released position and said valve will move to completely closed position.

2,587,788
ROTATABLE CHRISTMAS TREE STAND
Claris F. Tacy, Oakdale, Pa.
Application July 1, 1949, Serial No. 102,614
2 Claims. (Cl. 248—45)

1. In a rotatable Christmas tree stand or the like having a power driven rotating element and a rotatable pin drum driven thereby in contact with a musical comb, the improvement comprising a socket removably keyed to said power driven rotating element, a tree supporting element adapted to fit in said socket and rest upon a circular plate in frictional engagement therewith, bearing members between said circular plate and



the socket whereby the tree supporting element and plate are carried along with the socket in rotation but may be halted without halting the socket.

2,587,789
MOTOR OVERLOAD PROTECTOR TERMINAL STRUCTURE
Palmer C. Talmadge and John D. Zartman, Logansport, and Robert E. Prouty, Cass County, Ind., assignors to Essex Wire Corporation, Logansport, Ind., a corporation of Michigan
Application October 26, 1949, Serial No. 123,775
2 Claims. (Cl. 173—324)



1. In a thermally responsive electrical overload protector, an insulating base comprising a foundation plate and an integral cup portion projecting from said plate, a plurality of terminal receiving apertures formed in the bottom of said cup and extending through said plate, reinforcing projections formed in the bottom of said cup and surrounding each of said terminal receiving apertures, a plurality of current conducting terminal connectors insertably mounted through said reinforcing projections and apertures, three rectangular locking lugs forming three sides of each of said terminal connectors, each turned over at one end to grip the back surface of said foundation plate, a fourth rectangular lug forming the fourth side of each of said terminals, said fourth lug being longer than said three locking lugs and having its extra length reentrantly looped over outwardly of said foundation plate thereby to provide a solder terminal for receiving circuit connecting leads, and a top wall interconnecting said four lugs of each of said terminal connectors at their upper ends and closing over said apertures through said plate when said terminals are mounted therein.

2,587,790
BICYCLE KICK STAND
Otto Thalman, Chevy Chase, Md.
Application August 3, 1949, Serial No. 108,297
1 Claim. (Cl. 280—301)

A kick stand for a bicycle, comprising a bracket having a flange on its upper end, a clamp for securing the bracket against the bicycle frame, there being a socket arranged in said bracket, the upper portion of said bracket having a semi-spherical bearing recess communicating with said socket, a semi-spherical head movably positioned in said recess, a stem extending from said head and secured thereto, there being a slot arranged in the bottom of said bracket, an arm having a

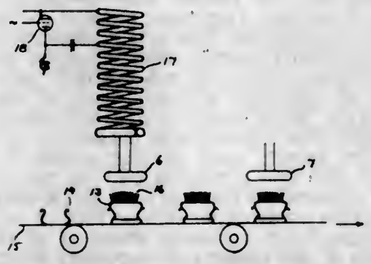


hub movably positioned in said slot, a shaft extending through said hub and bracket for pivotally connecting said arm to said bracket, a projection extending from said hub and secured thereto, a stud having one end pivotally connected to said projection, an annular collar arranged on said stud, and a coil spring having one end abutting said collar and its other end extending over said stem and abutting said head.

2,587,791
RESINOUS COPOLYMERIZATION PRODUCTS FROM AROMATIC FULVENES
Ralph B. Thompson, Hinsdale, and Herman S. Bloch, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 27, 1950, Serial No. 170,683
15 Claims. (Cl. 260—83.7)

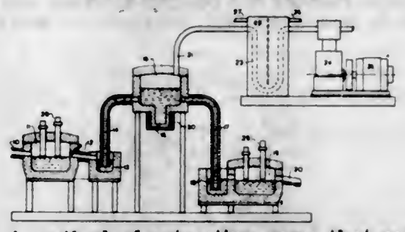
15. A co-polymer of an aromatic monofulvene and an unsaturated hydrocarbon containing from 1 to 2 olefinic double bonds per molecule.

2,587,792
METHOD FOR ROUNDING THE TIPS OF BRISTLES
Carl Henric von Sivers, Stockholm, Sweden
Application August 13, 1947, Serial No. 768,506
In Sweden August 15, 1946
8 Claims. (Cl. 219—15)



1. A method of treating small diameter articles such as wires, bristles, and the like to provide rounded ends thereon, comprising providing an electrode maintained at a distance from the end of such an article, establishing an electric circuit between said article and said electrode, and energizing said circuit to provide a corona discharge in the neighborhood of the end of said article whereby to heat said end locally and melt the same to the desired rounded form.

2,587,793
MANUFACTURE OF STEEL
Frederic Barnes Waldron, Eccleston Park, Prescot, England
Application July 19, 1949, Serial No. 105,516
In Great Britain April 5, 1949
2 Claims. (Cl. 75—49)



1. A method of extracting gases that are occluded in molten steel which comprises continuously flowing such molten steel into the bottom of an enlarged chamber which is maintained under vacuum, continuously and unrestrictedly flowing the molten steel through said chamber while it rises therein to a substantial height due to the vacuum in said chamber whereby the occluded gases are separated from the steel and are withdrawn from said chamber by a gas extraction appliance and withdrawing the degasified steel from a point at the bottom of said chamber into a chamber at atmosphere pressure.

2,587,794
FOUNTAIN TOOTHBRUSH
Le Roy E. Walker, Mullen, and Glenn R. Morton, Grand Island, Nebr.
Application August 22, 1947, Serial No. 770,148
2 Claims. (Cl. 222—378)

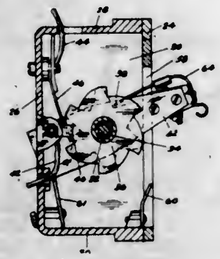


1. In a dispensing device, a tubular handle adapted to contain fluid material, said handle having a main bore to accommodate the fluid material and a reduced diameter bore opening into one end of said main bore, said reduced bore having therein an abutment spaced from said one end of the main bore, a check valve in said reduced bore comprising a resilient material cup having a first portion filling said reduced bore and bearing against said abutment, said first portion having an open end facing the said one end of the main bore, and a second portion of reduced diameter remote from the open end of the first portion, said second portion being closed and being spaced from the sides of said reduced handle bore and positioned beyond said abutment, said second portion being provided in its side with a normally closed discharge slit, and a piston operable in said reduced handle bore toward said cup to compress fluid material present in said reduced bore between said piston and said cup in a manner to distort said second portion of the cup and open the slit therein to discharge the compressed fluid material into the space in said reduced bore around said second cup portion and beyond said abutment.

2,587,795
CONTROL MECHANISM FOR WELL PUMPS
James Matt West, Fayetteville, Tenn.
Application November 5, 1948, Serial No. 58,434
20 Claims. (Cl. 200—84)

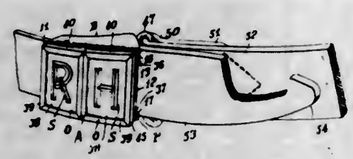
2. A control switch for well pumps comprising an oscillatable member having means thereon

for connection to a float, a pair of electric contacts, a member turnable in one direction only having means thereon in one position to permit closing of said contacts and in other positions to open said contacts, a connection between said oscillatable member and said turnable member, said connection including means to turn said turnable member to a position allowing said contacts to close upon each movement of said oscil-



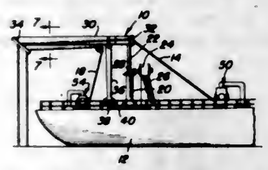
latable member in one direction in response to movement of a float connected thereto in one direction and to resist yieldingly movement of said oscillating member in the other direction in response to movement of such float in the opposite direction, and further including means operative on said turnable member when said last means yields to move said turnable member to a position to open said contacts.

2,587,796
INTERCHANGEABLE INITIAL BELT BUCKLE
John R. Whitehouse and Harold C. Vaisey, Rochester, N. Y., assignors to Hickok Manufacturing Co. Inc., Rochester, N. Y., a corporation of New York
Application April 26, 1950, Serial No. 158,214
6 Claims. (Cl. 40—140)



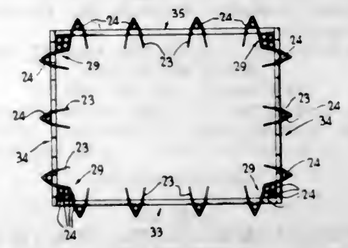
1. A belt buckle comprising a main frame member including a rectangular shaped rear plate, an ornamental plate carrying rectangular shaped plate of substantially the same size as said rear plate secured thereon at the front side thereof in opposed face to face relation therewith, said plates having oppositely disposed spaced upper and lower marginal portions forming longitudinally extending grooves, an ornamental plate slidably mounted on said ornamental plate carrying plate, said ornamental plate having at the upper and lower edges thereof flanges extending rearwardly at substantially a right angle thereto, said flanges having inwardly extending spaced tongues integral therewith slidably engaging in said grooves, a stop portion on the ornamental plate carrying plate near one end thereof engaging one of said tongues and limiting longitudinal sliding movement of the ornamental plate in one direction, and a spring tongue on the ornamental plate carrying plate projecting rearwardly therefrom into one of said grooves and adapted to engage one of said tongues to hold the ornamental plate in position on the plate carrying plate.

2,587,797
DERRICK
Walter Wiggins, Jr., Washington, D. C.
Application October 20, 1949, Serial No. 122,530
2 Claims. (Cl. 212—3)



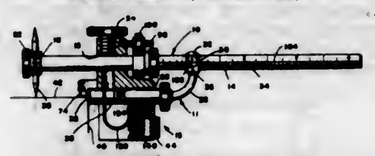
1. In a derrick, the combination of an upright mast adapted for oscillation about a vertical axis, a laterally extending boom secured to said mast, a horizontal cross-bar mounted on the mast for oscillation therewith, a plurality of spaced guides on said cross-bar, a plurality of stationary bearing brackets disposed remotely from said mast, a set of winches each swingable about a vertical axis in one of said brackets, and hoisting cables extending from said winches over said guides to said boom, whereby said winches may swing in said brackets in response to oscillation of said mast to maintain stretches of said cables between the winches and said guides in proper alignment.

2,587,798
CONSTRUCTION TOY
Philip E. Wilcox, New York, N. Y.
Application July 20, 1948, Serial No. 39,705
5 Claims. (Cl. 46—19)



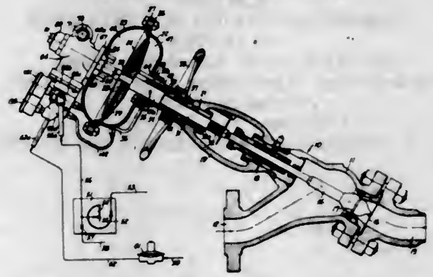
1. A toy construction fabricated of drinking straws and cardboard strips set up as a house having four walls, comprising in combination, a plurality of rectangularly shaped strips of cardboard, each strip being folded along the medial longitudinal line thereof and having a column pair of spaced apertures parallel to its said medial longitudinal line and symmetrically disposed laterally thereto, and a second plurality of cardboard strips of substantially double the width of said first plurality, each of said double strips being folded along the medial longitudinal line thereof and presenting a pair of identical panels, each of said panels having a medial fold and a column pair of spaced apertures identical to those of said single strips, and a plurality of drinking straws, four of said double strips being vertically disposed at the four corners of the house and angularly distorted so that the said medial line of each is disposed within the confines of said house with one of its said panels disposed at one wall of the house and with the other panel disposed at the adjacent normally related wall thereof, said drinking straws being passed through the aligned apertures of one panel at one corner of the house and through the aligned apertures of the panel at another corner of the house, to constitute the side walls thereof.

2,587,799
UNIVERSAL SCRATCH GAUGE
Rudolph R. Winter, Chicago, Ill.
Application June 23, 1948, Serial No. 34,765
10 Claims. (Cl. 33—42)



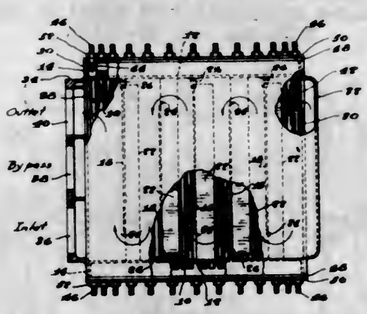
1. A scratch gauge having a block providing a pair of forwardly projecting surfaces for riding along a reference surface on a workpiece, a scriber bar slidably received in said block and generally centered between the surfaces on the block for extending over said workpiece, a gauge bar slidably received in said block and having a forwardly presented contact surface at one end, said gauge bar having an offset portion extending adjacent said scriber bar, said scriber bar having a scale inscribed along the length thereof and said offset portion having an index pointer for cooperating with said scale to indicate the amount of extension of said scriber beyond the contact surface on said gauge bar, and a spring engaging said gauge bar for pressing the latter forwardly into contact with said reference surface.

2,587,800
MOTOR VALVE AND POSITIONER APPARATUS
Richard M. Witt, Berkeley, Calif., assignor, by mesne assignments, to M & J Engineering Co., a partnership consisting of M. H. Grove and J. E. Grove, both of Piedmont, Calif.
Application April 22, 1947, Serial No. 743,107
3 Claims. (Cl. 137—153)



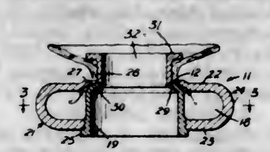
1. In equipment of the character described, a fluid pressure operated diaphragm movable in opposite directions, a main valve comprising a valve body and a valve member, means forming a connection between the valve member and the diaphragm, a casing serving to mount the diaphragm and forming a chamber on one side of the same adapted to receive fluid under pressure to effect the positioning of the diaphragm, and means serving to control application of air pressure to said chamber to effect predetermined incremental positioning of said diaphragm in response to given values of controlling pressure, said means comprising a pneumatic valve device of the supply and waste type serving to control application of air to said chamber, a spring serving to apply forces to said device, a metal bellows serving to apply force to said spring, a body forming a closed liquid chamber which encloses the exterior of said metal bellows, said body being mounted upon said casing, a plunger slidably carried by the body and extending into said liquid chamber, whereby upon movement of the plunger liquid is displaced in said chamber to effect corresponding movements of the bellows and compression of said spring, said plunger having its exterior end extending into motion transmitting engagement with said diaphragm.

2,587,801
OIL COOLER
John E. Woods, Cohasset, Mass., assignor, by mesne assignments, to Standard-Thomson Corporation, Boston, Mass., a corporation of Delaware
Application July 6, 1945, Serial No. 603,491
3 Claims. (Cl. 257—128)



3. An oil cooler, comprising a core having a large number of closely-spaced thin-wall tubes having polygonal end portions to form a tube bundle, means for securing the end portions of adjacent tubes together, spacing strips between the polygonal end portions of tubes of selected rows to divide the core into groups of tubes separated by straight narrow spaces, a plurality of thin sheet-metal baffles insertable in said spaces from the side of the core and extending across the core and between said strips, sealing material joining one edge of each baffle along the entire edge thereof against the strip at one end of the core, alternate baffles having large liquid-pass openings at opposite ends, each baffle having spacing projections formed in the surface thereof to engage adjacent groups of tubes, the baffles being retained solely by said sealing material and said frictional engagement, each baffle having bent wing portions extending outwardly beyond the core, and a shell surrounding and secured to the core and engaging said wing portions throughout their length.

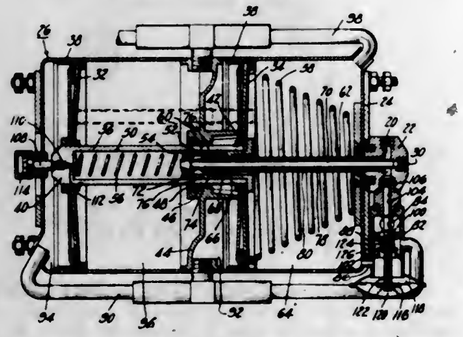
2,587,802
GAS BURNER AND FLAME DEFLECTOR
Victor R. Abrams, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application October 23, 1947, Serial No. 781,705
5 Claims. (Cl. 158—113)



5. A premixed burner head comprising a body having an annular passageway formed therein, means formed in said body for effecting the entrance of gas to said passageway in a tangential relation, said body having a first annular port in communication with said annular passageway

and shaped to direct the flow of gas in a direction to converge at a point on the centerline above the body, means adjacent the port for deflecting the gas vertically upwardly upon discharge from the port and means operatively associated with said last means spaced above the port for deflecting the gas outwardly from the vertical deflecting means and forming with the latter a gas burning area under high velocity of gas flow through said passageway.

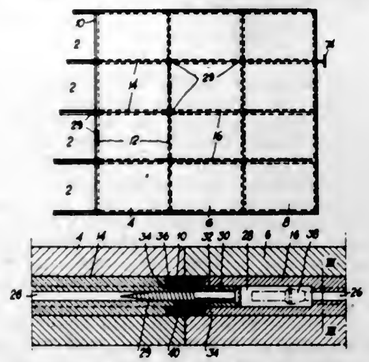
2,587,803
HYDRAULIC PRESSURE POWER DEVICE
Frank Adams, Milwaukee, Wis., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 5, 1945, Serial No. 632,999
5 Claims. (Cl. 60—54.5)



4. A power actuated hydraulic pressure creating device comprising a power cylinder having a piston therein, a hydraulic cylinder supported by the power cylinder piston, an annular piston mounted in the bore of said hydraulic cylinder, a rod member supported on the front wall of the power cylinder and extending into the forward end of said hydraulic cylinder to contact said piston and thereby prevent the same from moving under the influence of pressure created in the hydraulic cylinder, said rod member having two independent fluid passages therein, one of which at all times connects the interior of the hydraulic cylinder through the opening in the annular piston to a pressure actuated motor, and the other of which connects the chamber ahead of the annular piston to an operator operated master cylinder, resilient means urging the piston toward the inner end of the rod member to cut off communication between the operator operated master cylinder and said hydraulic cylinder, and nonresilient means for holding the piston spaced from the inner end of the rod member when the power cylinder piston is in released position.

2,587,804
BUILDING STRUCTURE
Carl August Ajne, Stockholm, Sweden
Application September 6, 1944, Serial No. 552,927
In Sweden October 30, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires October 30, 1959
4 Claims. (Cl. 20—4)

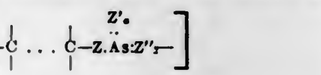
1. A wall comprising a plurality of abutting rectangular wooden panels having grooves in the longitudinal and transverse edges thereof, and a wooden skeleton connecting said panels together in edge-to-edge relation to form an unbroken surface, said skeleton comprising wooden joining bars disposed in the grooves along one pair of opposite edges of said panels, wooden coupling bars disposed in the grooves along the other pair of opposite edges of said panels, said coupling bars being sectionalized to provide a joint therebetween at each joining bar and with the adjoining ends of adjacent coupling bars abutting opposite sides of the joining bar, each said coupling bar including an axial channel extending longitudinally therethrough, the configuration of said channel in a plane normal to the



longitudinal axis thereof including a circular central portion and diametrally opposite slots extending therefrom to permit guided insertion of the shank and blade of a screw driver, a headed screw concealed from view, and means retaining the screw head in said channel at one end of said coupling bar, the shank of said screw extending outwardly of the bar end through an aligned transverse aperture in said joining bar and threadedly engaged with the adjoining end of the adjacent coupling bar.

2,587,805
ARSENIC MODIFIED POLYSULFIDE PLASTICS
Lev Akobjanoff, Ann Arbor, Mich.
No Drawing. Application December 4, 1948, Serial No. 63,620
4 Claims. (Cl. 260—79.1)

4. A polymeric substance having the repeating unit



in which

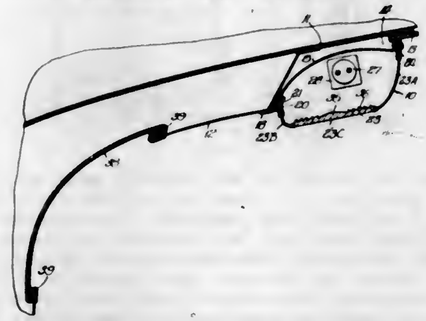


represents structure selected from the group consisting of two adjacent carbon atoms connnected by a valence bond and two carbon atoms separated by and joined to intervening structure; Z, Z' and Z'' are chalcogens; As is the element arsenic in its tri- and pentavalent forms; and wherein a is zero when the valence of As is 3, and a is one when the valance of As is 5.

2,587,806
STABILIZED PLASTIC TYPE CONFECTION AND METHOD OF MAKING THE SAME
Justin J. Alikonis, Bloomington, Ill., assignor to Paul F. Beich Company, Bloomington, Ill., a corporation of Illinois
No Drawing. Application February 24, 1949, Serial No. 78,221
3 Claims. (Cl. 99—134)

1. A method of making chewy plastic confectionery, comprising completely hydrating a soluble algin with cold water, mixing the resulting solution with certain confectionery ingredients which are suited for chewy confectionery production and which are in a cool condition, cooking the resultant mixture to the consistency of a chewy confectionery cook and, without the use of ionizing or buffer agents, adding to said cooked mixture a sufficient quantity of a calcium salt to entirely convert said algin to calcium alginate form.

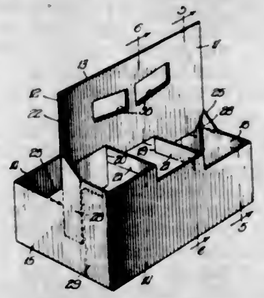
2,587,807
CAR LIGHTING STRUCTURE
Albert L. Arenberg, Highland Park, and Edward C. Zimmerman, Winnetka, Ill., assignors to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application July 25, 1947, Serial No. 763,580
3 Claims. (Cl. 240—7.35)



3. The combination with a passenger vehicle characterized by an interior longitudinally extending aisle, a deck surface extending longitudinally alongside said aisle and an aisle ceiling located directly above said aisle at a substantially higher elevation than said deck surface, there being a longitudinally extending recess between said deck surface and ceiling which opens outwardly of said deck surface and downwardly between said surface and said aisle ceiling, of a light housing provided with a source of light secured in said recess and including a relatively elongated, trough-like light transmissive panel, said panel having a rear light transmitting wall which is of sufficient height to depend slightly beneath said deck surface, an intermediate clear section of substantial width, and a front light transmitting wall, the height of said front wall being sufficiently greater than that of said rear wall to extend approximately to said center aisle ceiling, said rear wall being hinged along the adjacent edge of said deck surface, and means connected to the upper edge of said front wall to secure the same to said housing, said panel being positioned substantially in its entirety on the aisle side of said deck surface, and said light source being mounted in said light housing in position to direct light rays through all of said light transmitting walls.

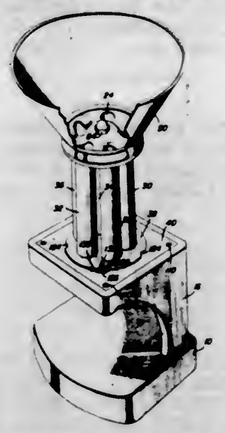
2,587,808
BOTTLE CARRIER
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application January 10, 1948, Serial No. 1,648
9 Claims. (Cl. 229—52)

1. An article carrier comprising pairs of opposed, flexibly connected side and end walls and a bottom, a central panel paralleling and located in a plane between said side walls, and flexibly connected at its ends to midpoints of said end walls, said central panel comprising a pair of sections disposed in parallel, multi-ply relation, a tab bendably connected to each of said end walls outwardly of the opposite end margins of



said respective panel sections, said tabs each being disposed in flat, side-by-side relation to an end wall in adjacent, vertically straddling relation to the flexible connection of said panel to said end wall, and means securing said tabs in said relation.

2,587,809
COIN DISPENSER
Millard F. Arnett, Fairmont, W. Va.
Application September 9, 1948, Serial No. 48,517
3 Claims. (Cl. 133—5)



1. A coin dispenser comprising: a flat hollow base member of substantially square plan form and relatively small height compared to its plan dimensions having a single straight centrally disposed mounting shaft extending from bottom to top therethrough, said shaft being perpendicular to and projecting a substantial distance above the top face of the said base member; two pivotally operable coin ejectors of unequal thicknesses each having a coin receiving aperture and a mounting aperture therein and a finger lever projecting downwardly from its lower face, said coin ejectors being mounted within the said hollow base member with the aforesaid mounting shaft extending through their mounting apertures; and a turret type coin holder formed of a disk-like bottom member having a shaft opening through its center perpendicular to the faces of the said bottom member and a plurality of like coin tubes mounted on said bottom member perpendicular to the faces thereof with their centers equally

spaced on the circumference of a circle concentric with the shaft opening of the said bottom member, said coin holder being mounted on the top face of the said base member with the shaft opening of its disk-like member rotatable on the projecting portion of the aforesaid mounting shaft; said base member comprising a substantially square turret support plate forming its top, a coin support plate of the same size and configuration as the turret support plate forming the bottom of said base member, and two spacers each of a height slightly greater than the thickness of the coin ejector of greater thickness disposed between the said plates at their front and rear edges and maintaining the first named plate in spaced superposed parallel relation to the second named plate, said turret support plate having therethrough two coin inlet openings equally distant from its front edge and further disposed to be in simultaneous registry with two non-adjacent coin tubes of the said coin holder, said coin ejectors being normally held in registry with the above coin inlet openings by tension springs, there being an apertured filler plate above the coin ejector of greater thickness to make a continuous closed passage from the lower end of the coin tube to the last named coin ejector, said coin support plate having therethrough two arcuate finger lever slots through which the downwardly projecting finger levers of the said coin ejectors extend, and two coin discharge openings equally distant from its front edge and closer thereto than the coin inlet openings are to the front edge of the turret support plate, said coin discharge openings being so positioned that they will be in registry with the coin receiving apertures of the aforesaid coin ejectors when the coin ejectors are at the forward end of their paths of rotation.

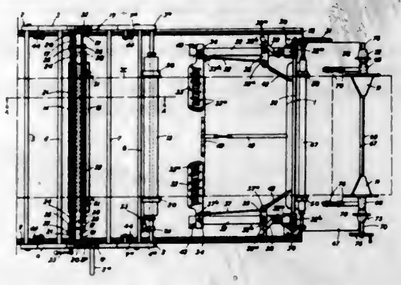
2,587,810
SPRING GRIP PIPE COUPLING
Walter O. Beyer, Pittsburgh, Pa.
Application August 8, 1947, Serial No. 767,380
12 Claims. (Cl. 285—163)



1. A coupling grip element of flexible spring-like construction having a plurality of normally spaced-apart convolutions shaped in the form of an annulus, said grip element being provided with interlocking end portions for holding said element in an articulated relationship, said convolutions having widened-surface gripping portions.

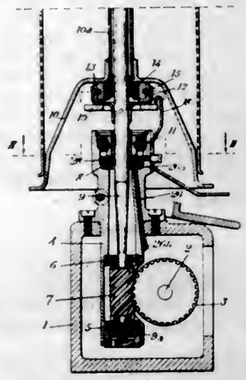
2,587,811
MECHANICAL CLOTH-LAYING APPARATUS
Abraham Bieber, Liverpool, England, assignor to Express Patent Company (Liverpool) Limited, Liverpool, England, a company of Great Britain
Application August 4, 1947, Serial No. 766,008
In Great Britain September 1, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires September 1, 1959
3 Claims. (Cl. 270—31)

1. A cloth laying machine comprising in combination a table provided with rails at its opposed sides, a carrier reciprocably mounted on said rails, rotatable rods journalled in bearings arranged at side of said table, contacting tongues provided on each of said rotatable rods, two opposed pairs of cloth holders and each pair being mounted on a rotatable rod in a pre-set distance apart, each cloth holder comprising a lifting bar secured at one end to its respective rod, a cloth holder proper pivotally mounted on the opposite or free end of said lifting bar, stops on said lifting bar for limiting movement of said cloth holder proper, a lever pivoted to said lifting bar, a connecting rod pivotally attached to the inner end of said lever and to said cloth holder proper, a second locking lever pivoted on the outer end of said first-mentioned lever and having a catch-like recess formed in one end, a compression spring between said first-mentioned lever and said locking lever for causing engagement of the



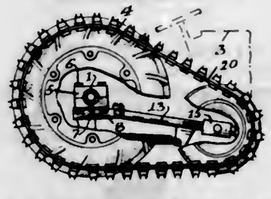
catch-like recess of said locking lever with a co-operating catch block mounted on the lifting bar, a tension spring connecting the inner end of said first lever with the rotatable rod, pendant arms provided on said reciprocable carrier for contacting and releasing said locking lever and moving said cloth holders proper from cloth engaging position at right angles to said lifting bar to a cloth disengaging position wherein they form extensions of said lifting bars, and means on said reciprocable carrier for contacting said tongues provided on said rotatable rods for raising said lifting bars after the cloth holders have moved to cloth disengaging position.

2,587,812
SPINNING SPINDLE MECHANISMS, IN PARTICULAR TO THOSE DRIVEN BY MEANS OF A WORM AND WORM WHEEL
Louis Birkigt, Versoix, pres Geneva, Switzerland, assignor to "Hispano-Suiza" (Suisse) S. A., Geneva, Switzerland, a society of Switzerland
Application January 22, 1951, Serial No. 207,168
In Luxemburg January 31, 1950
10 Claims. (Cl. 57—102)



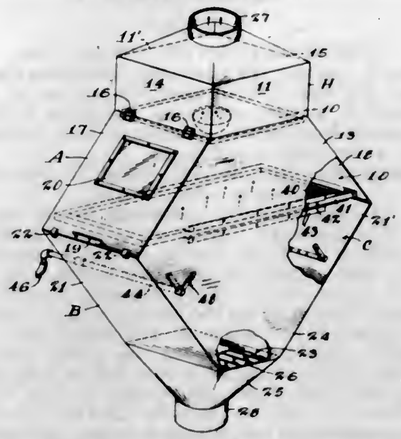
1. A spinning spindle mechanism which comprises, in combination, a frame, a bobbin rotatably mounted on said frame, a driving shaft journalled in said frame, a worm wheel secured to said shaft, a worm in mesh with said worm wheel journalled in said frame, a centrifugal frictional clutch including a driving part, a driven part and centrifugal force responsive control means for interconnecting said two parts, means for coupling said driving part in rotation with said worm, means for coupling said driven part in rotation with said bobbin, means for positively transmitting rotary motion between said bobbin and said centrifugal control means, and restarting means for urging said centrifugal means outwardly to start said driven part into rotation.

2,587,813
TRACTOR UNIT
Joseph Armand Bombardier, Valcourt, Quebec, Canada
Application December 15, 1949, Serial No. 133,079
5 Claims. (Cl. 305—8)



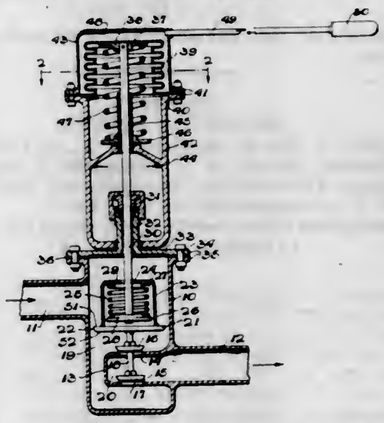
1. A tractor unit adjustable to various tread gauges, comprising an axle, a wheel thereon, a U-shaped member fixed on said axle, a stub shaft fixed in said member, a slidable sleeve and a pair of removable collars on said shaft and substantially filling the space between the sides of said member, an arm extending radially from said sleeve, and a wheel supported by said arm, the last named wheel being free for lateral adjustment with said arm.

2,587,814
METHOD AND APPARATUS FOR MAKING A FIBROUS PREFORM
Gustave W. Borkland, Marion, Ind., assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application November 9, 1946, Serial No. 708,998
16 Claims. (Cl. 19—148)



16. Apparatus for fabricating an intermatted mass of glass fibers of predetermined shape comprising an enclosing chamber having gaseous outlet and inlet ports at the top and bottom respectively, a stationary foraminous member of a predetermined shape adapted replaceably to cover said outlet opening, means for supplying glass fibers to the chamber, means for directing turbulent gaseous flow from the inlet through the outlet port of the chamber whereby the glass fibers are entrained and carried by the gaseous medium in the direction opposed by gravitational forces to be deposited in an intermittent mass on the foraminous member as the gaseous medium passes therethrough to the outlet.

2,587,815
CONSTANT FLOW VALVE MECHANISM
Charles D. Branson, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, Knoxville, Tenn., a corporation of Delaware
Application July 22, 1948, Serial No. 40,042
5 Claims. (Cl. 236—99)

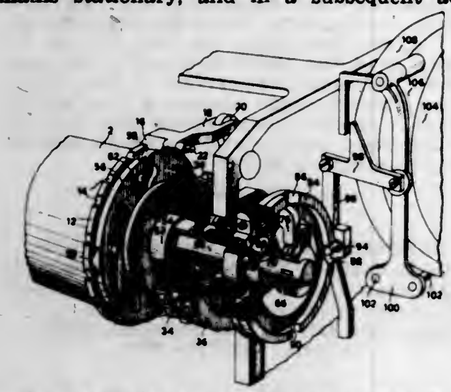


1. In a constant flow valve, in combination with a valve housing having inlet and outlet connections, a ported partition in said housing providing inlet and outlet chambers respectively in communication with said inlet and outlet connections, and valve mechanism for controlling fluid flow through said ported partition, a movable plate member in said inlet chamber providing an orifice of predetermined area between its periphery and the walls of said inlet chamber and operatively connected to said valve mechanism, a cup-shaped housing secured to said plate member, means providing a movable abutment plate within said housing, and resilient means interposed between said abutment plate and the wall of said housing for applying a predetermined resilient force to said plate member in opposition to the action of the inlet pressure on the face of said member at the inlet side of said orifice.

2,587,816
AUXILIARY SPEED CONTROL MECHANISM FOR KNITTING MACHINES
Paul W. Bristow, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application March 23, 1950, Serial No. 151,465
8 Claims. (Cl. 66—56)

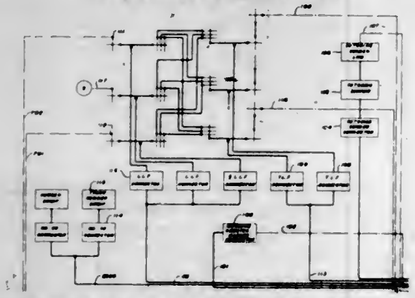
1. In a knitting machine, a pattern device, a cyclically operating element for advancing said pattern device step by step, means controlling the occurrence of active cycles of said element, means for controlling the speed of the knitting machine, and means for effecting in one active cycle of said element an advance of said speed controlling means to change the speed of the

knitting machine while the pattern device remains stationary, and in a subsequent active



cycle of said element an advance of said pattern device.

2,587,817
TELEPHONE SYSTEM
Aloysius J. Busch, Madison, N. J., and Henry J. Michael, Minelo, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1948, Serial No. 68,548
12 Claims. (Cl. 179—18)



1. In a telephone system, first switches, second switches, links arranged to interconnect said first switches and said second switches, circuits of one class appearing in said second switches, circuits of another class appearing in said first switches, incoming circuits, at least one of said incoming circuits appearing in at least one of said first switches and in at least one of said second switches, control circuits, means under the control of said control circuits and including first switches and links and second switches to set up an interconnection between said one incoming circuit and a circuit of either class, and means included in said first mentioned means under the control of said control circuits to operate the first or the second switch in which said one incoming circuit appears in accordance with the desired termination of said interconnection.

2,587,818
LEAF HINGE
Stanley Benson Caldwell, Caldy, Wirral, and Eric Hurley, Greasby, Wirral, England
Application December 13, 1946, Serial No. 716,096
In Great Britain May 23, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires May 23, 1965
4 Claims. (Cl. 16—167)

1. A leaf hinge comprising a hinge pin, a pair of leaves each having a portion pivotally embracing said pin, one of said leaves having a recess formed in an edge thereof for receiving the second leaf therein in the same plane therewith when said hing is in its closed position, said second leaf having a plurality of slots formed therethrough adjacent to said hinge pin, and



said pin embracing portion of said second leaf having a plurality of tongues each extending through one of said slots and from the face of said second leaf with the sides of said tongues which extend beyond said second leaf being normal to the face of said second leaf forming corners for aiding in the alignment of the hinge when being mounted for use.

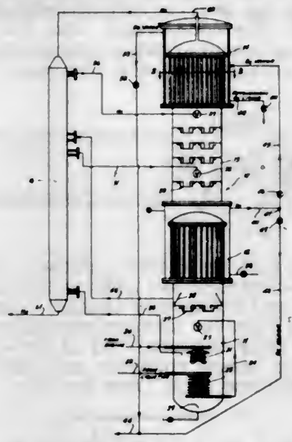
2,587,819
UNIVERSAL COUPLING
Ernest Camerino, New York, N. Y.
Application October 6, 1948, Serial No. 53,065
6 Claims. (Cl. 64—14)



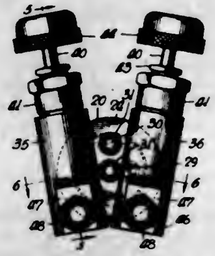
1. In a coupling of the class described, a pair of head components adapted to be connected to a pair of shafts in fixed relation therewith respectively, and provided with axially extending arcuate flanges and with the flanges of one component being disposed in alternate and circumjacent relation with the flanges of the other component and thus defining a cylindriform cage between said components, a cylindrical flexible component disposed in said cage, said flanges and said flexible component being provided with connecting means for securing them together to effect unitary rotation of said head components, said flanges surrounding said flexible component and coacting to restrain appreciable distortion of said flexible component for maintaining said means effective.

2,587,820
VAPOR OXYGEN RECONDENSER
Lionel R. Cartier, O'Fallon, Ill.; Effie Mae Cartier and Norman J. Gundlach, executors of said Lionel R. Cartier, deceased, assignors to Independent Engineering Company, Inc., O'Fallon, Ill., a corporation of Illinois
Application May 16, 1947, Serial No. 748,413
3 Claims. (Cl. 62—122)

1. An apparatus for producing liquid oxygen, including a column having an upper chamber in the bottom of which liquid oxygen is produced with vapor oxygen immediately thereabove, and in the top of which vapor nitrogen is produced at temperatures below the boiling point of oxygen, an oxygen vapor draw-off connected into said chamber immediately above the liquid level, an oxygen discharge outlet connected to the draw-off, a heat exchanger superposed on the chamber, having a first pass directly open to the chamber to receive the cold nitrogen vapor, and having a nitrogen outlet at its other end, and having a second pass in heat transfer relationship to the first pass, a connection between the second pass and the vapor oxygen space above the liquid in the chamber, an opposite connection from the second pass to the oxygen discharge outlet, means to regulate the amounts of oxygen vapor sent directly to the oxygen discharge outlet and to the second pass, and means to withdraw liquid oxygen from the heat exchanger.



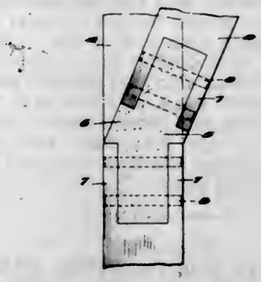
2,587,821
VALVED CONSTRUCTION FOR TORCH HANDLES AND METHOD OF MAKING THE SAME
Alfred F. Chouinard and Mitchell A. Tylutki, Chicago, Ill., assignors to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
Application June 2, 1945, Serial No. 597,300
6 Claims. (Cl. 277—46)



1. A multiple valved hose connecting member for torch handles, including a base section having one side adapted to extend into and be secured to the rear end of a torch handle, and having in the opposite side a pair of grooves at an acute angle to each other, and passages leading from said grooves to the first mentioned side of said section, and a pair of valve casings disposed in said grooves and welded to said base section, each valve casing being provided with an inlet in the side away from said base, and an outlet in the side disposed in said grooves and registering with the corresponding one of said passages, a valve movable lengthwise of the valve casing, said inlets being at the ends of said valve casings which are close together, and said valves having handles at the end of said casings which are farthest apart.

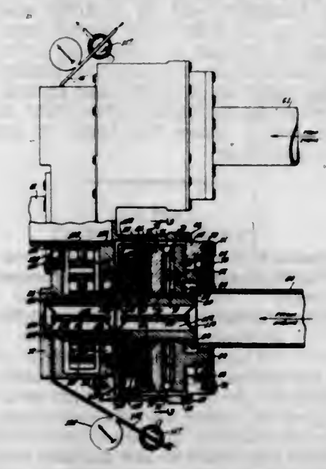
2. The method of forming a hose connecting valved unit for torch handles, including the steps of shaping a circular disc-like base member from bar stock to form a boss on one side and grooves at an acute angle to each other in the opposite side, forming a passage leading from each groove to the opposite side through the boss, forming a pair of cylindrical valve blocks from bar stock, each with a portion of the peripheral surface thereof conforming to said groove and with a valve seat therein, an inlet adjacent to one end below the valve seat and a substantially diametrically opposite outlet above the valve seat, welding said valve blocks in said grooves with the end portions having the inlets disposed adjacent to each other and the outlets registering with the passages through said base member.

2,587,822
RESILIENTLY MOUNTED CHAIR BACK
Walter D. Corning, Knoxville, Tenn.
Application June 21, 1946, Serial No. 678,403
11 Claims. (Cl. 155—164)



10. In a chair having an elongated support member including normally aligned spaced sections having opposing end faces, an insert of non-metallic resilient material interposed between the opposing ends of the aligned sections and connected therewith, and means connected with the insert in position to act on the respective sections to oppose freedom of relative swinging movement of the sections.

2,587,823
FRICTION TYPE CLUTCH
Chester C. De Pew, Farmingdale, N. Y., assignor to Fairchild Engine and Airplane Corporation, Farmingdale, N. Y., a corporation of Maryland
Application July 16, 1946, Serial No. 684,013
2 Claims. (Cl. 192—47)



1. A mechanism for driving a power output shaft from a power input shaft, comprising a first rotatably mounted plate driven by said

power input shaft, a bell coaxial with said first plate and connected to said output shaft for driving the latter, an idler shaft interposed between and coaxial with said plate and bell and rotatable relative to them, a clutch having opposed groups of friction clutch discs, means connecting one group of discs to said bell for rotation therewith and axial movement relative to said bell, means connecting another group of said discs to said idler shaft for rotation therewith and axial movement relative thereto, a second plate rotatable with said idler shaft and movable axially thereof, said second plate being interposed between said clutch and said first plate, camming means on opposed faces of said first and second plate to move said second plate axially upon relative rotation of said plates and to couple said plates for rotation together after a predetermined relative rotation, an annular cylinder concentric with and mounted within said bell for rotation therewith, an annular piston in said cylinder adjacent to and engageable with one of the clutch discs, and means for introducing fluid under pressure into said cylinder to urge said piston against said one of said clutch discs to force said discs together and against said second plate to rotate the latter relative to said first plate, said camming means then becoming effective to couple said first plate to said second plate.

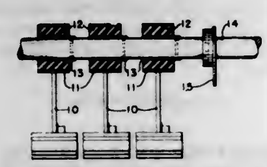
2,587,824

RUBBER DRIVE FOR PRINTING HAMMERS

Charles G. Dudis, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application October 5, 1950, Serial No. 188,517

10 Claims. (Cl. 101—93)



7. In a printing mechanism of the class described, the combination of a printing hammer, operating means for the printing hammer consisting of a rubber bushing connected to the printing hammer and to a drive shaft therefor, a means to selectively arrest movement of the hammer, means to rock the drive shaft to create potential energy in the rubber bushing when the hammer is held, and means to withdraw the arresting means after said energy has been created to cause the force to operate the printing hammer.

2,587,825

PITMAN BEARING

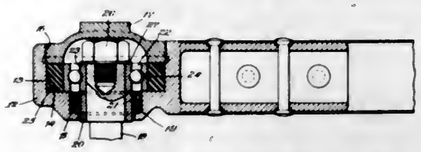
Ernest Duhain, Croix, France, assignor to International Harvester Company, a corporation of New Jersey

Application November 8, 1947, Serial No. 784,863

In France August 13, 1946

2 Claims. (Cl. 308—184)

1. In combination: a shaft, a pitman extending normal to the axis of the shaft and including a head portion having an enlarged opening therethrough surrounding the shaft and within which the shaft is journaled in the pitman, said opening including a bore concentric with the shaft and opening at one side of the pitman and an enlarged counterbore opening at the opposite side of the pitman, the end of the counterbore adjacent said opposite side of the pitman being internally threaded; bushing means fitting the shaft and carried in the bore; a ring of resilient material carried in the counterbore and encircling the shaft in such manner that a substantial annular space is provided between the outer surface of



the shaft and the interior surface of the ring; an annular antifriction bearing fitting the shaft and ring and filling said annular space; and an externally threaded member carried by the aforesaid internally threaded end of the counterbore and having means engaging and axially adjustable toward and away from the ring.

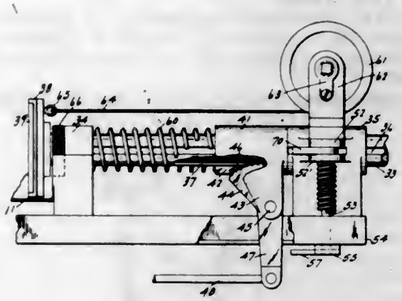
2,587,826

OPERATING MEANS FOR THE PLUNGER OF CUSHION FILLING MACHINES

Herman Ferrier, Oakland, and Norman J. Nish, Alameda, Calif.; said Nish assignor to said Ferrier

Application February 24, 1948, Serial No. 10,484

6 Claims. (Cl. 74—169)



1. Means for operating the plunger of a cushion filling machine, comprising, two spaced bearings including a front bearing and a rear bearing, and in which the plunger is slidable; a sleeve slidable on said plunger between said bearings and having a longitudinal slot formed radially in the under side; a slot formed radially in a horizontal plane through said rear bearing; two right angularly related keyways formed throughout the length of said plunger; a dog for each slot and slidable in said keyway and cooperative with the bottom and side walls thereof and including a feed dog and a stop dog, and each having a toothed engaging face to grip said bottom wall; a spring for urging said sleeve against said rear bearing; means cooperating between said plunger and said rear bearing for retracting said plunger when said stop dog is released, and a connecting rod for said feed dog for initially causing the feed dog to grip the plunger followed by advance movement of the plunger when the connecting rod is pulled, with the stop dog spring-urged to grip the plunger in its advanced position, and a connection manually operable for said stop dog to release the dog for return of the plunger to its retracted position through the urgence of said means.

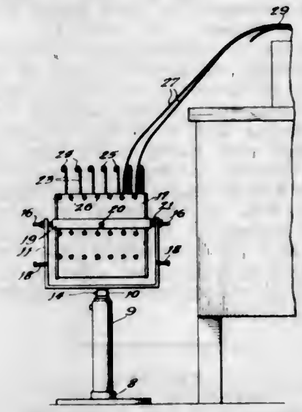
2,587,827

MOVABLE BOX FOR STATIONERY

Lester K. Fleischmann, Chicago, Ill., assignor to Standard Manifold Company, a corporation of Illinois

Application November 2, 1949, Serial No. 125,090

7 Claims. (Cl. 197—133)



2. A supply container for zig-zag folded strips of stationery led to a writing machine having a reciprocating carriage, comprising: a box having an opening from which strips of stationery may be led to the reciprocating carriage of a writing machine; guides in said box for the strips of stationery; and a supporting base having a single anti-friction pivot member upon which the box is mounted for oscillation in response to the force exerted by the to and fro movement of the strips of stationery as the carriage is reciprocated.

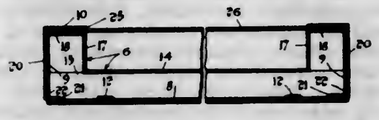
2,587,828

WINDOWED DISPLAY CONTAINER WITH ARTICLE SUPPORTING PLATFORM

Samuel Fogel, Montreal, Quebec, Canada

Application April 10, 1946, Serial No. 661,128

7 Claims. (Cl. 206—45.19)



1. In a container of the character described a display casing comprising top, side, bottom and end walls, the top and side walls being provided with a single window opening bounded by end edges spaced a substantial distance inwardly from said end walls and by side edges spaced a substantial distance above the bottom wall, an article-supporting platform arranged in said casing, said platform being of a length approximately equal to the length of said window opening and being provided with integral upwardly extending end wall members having their side and top portions disposed immediately adjacent the inner surface of the top and side walls and having their inner surfaces flush with the end edges of said window opening and spacing tabs formed integral with the upper portions of the end wall members of said platform and extending outwardly into abutting engagement with the end walls of the casing to thereby support the end wall members of the platform against outward displacement relative to the end edges of the window opening.

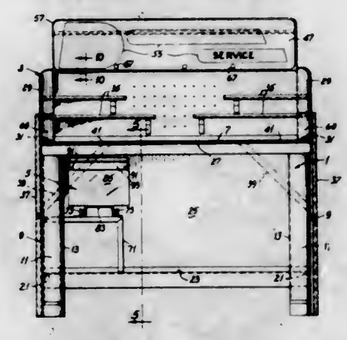
2,587,829

TOOL CABINET AND WORKBENCH

Alexander P. Fox, University City, and August D. Reisert, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri

Application December 31, 1948, Serial No. 68,574

4 Claims. (Cl. 312—237)



1. In combination, a workbench having a flat top providing a flat working space, a tool cabinet mounted on legs supporting it above a floor in position extending from end to end and at the rear of the workbench with the bottom of the cabinet spaced above the top of the workbench and with the cabinet-supporting legs spaced from the workbench, and a resilient molding in the space between the top of the workbench and the bottom of the cabinet.

2,587,830

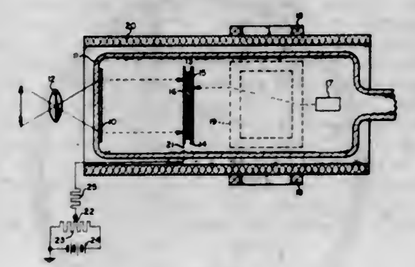
IMAGE-CONVERTING DEVICE

George Stanley Percival Freeman, Chiswick, London, England, assignor to Cinema-Television Limited, London, England, a British company

Application June 15, 1950, Serial No. 168,231

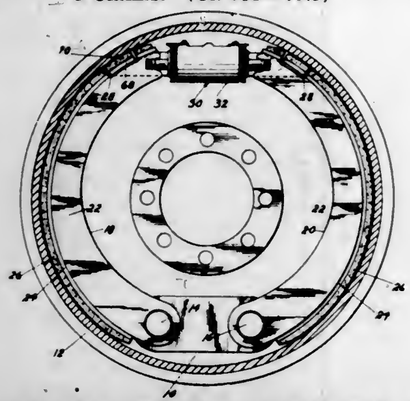
In Great Britain June 29, 1949

9 Claims. (Cl. 315—10)



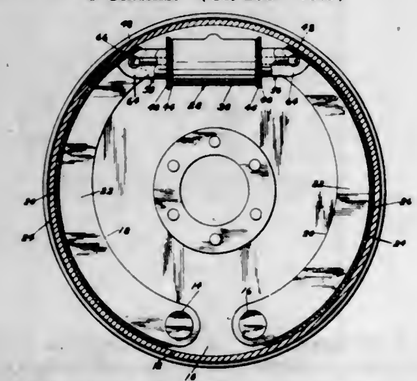
1. A double-ended image-converting device comprising: a storage electrode including a double-sided electron-impermeable target electrode, a thin imperforate layer of insulating material affixed to said target electrode, and a thin electron-permeable layer of conductive material affixed to said insulating layer; a pair of electron sources respectively disposed on opposite sides of said storage electrode; means for projecting electrons from one of said sources through said layers onto said target electrode to induce local transverse conduction currents in said insulating layer; and means utilizing said conduction currents to effect image conversion.

2,587,831
BRAKE ADJUSTING MECHANISM
Harold L. Frick, Detroit, Mich., assignor to Hydraulic Brake Company, a corporation of California
Substituted for abandoned application Serial No. 650,406, February 27, 1946. This application May 10, 1950, Serial No. 161,201
5 Claims. (Cl. 188—79.5)



1. A brake comprising a rotatable drum, friction elements for cooperation therewith, a motor including a cylinder and opposed pistons for actuating the friction elements, manually adjustable stops on the cylinder, stops frictionally clamped to the pistons for cooperation with the manually adjustable stops, and means yieldably and slidably engaging the drum for adjusting the stops on the pistons.

2,587,832
SLAVE CYLINDER ASSEMBLY
Harold L. Frick, Detroit, Mich., assignor to Hydraulic Brake Company, a corporation of California
Substituted for abandoned application Serial No. 644,731, February 1, 1946. This application May 10, 1950, Serial No. 161,202
8 Claims. (Cl. 188—79.5)

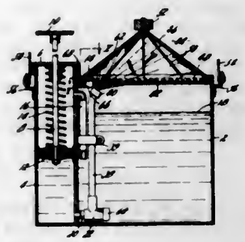


1. A brake comprising a movable member, a friction element associated therewith, a thrust member for moving the friction element into engagement with the movable member, a fixed member, and a stop member coacting with the fixed member and frictionally engaging the movable member and frictionally gripped on the thrust member and movable thereon as the result of a differential in wear between the friction element and that part of the stop member engaging the movable member.

2,587,833
PROCESS FOR SPLICING PAPER
Leo M. Germain, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Original application March 25, 1950, Serial No. 152,003. Divided and this application November 24, 1950, Serial No. 197,525
3 Claims. (Cl. 154—116)

1. A process for splicing paper comprising (1) placing between overlapping edges of the pieces of paper to be spliced a self-supporting film of plasticized polyvinyl alcohol-acetate resin, said resin containing 45% to 65% by weight of polyvinyl acetate and being made from polyvinyl acetate of viscosity, as defined herein, within the range from 4 to 20 centipoises, said film containing 8% to 30% by weight of a water soluble plasticizer having at least one OH group per molecule, and (2) subjecting the overlapping edges to heat and pressure, whereby a splice is formed which will disintegrate completely in a paper stock beater.

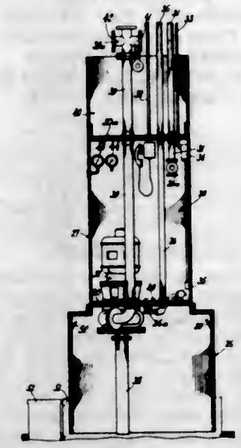
2,587,834
MINNOW BUCKET
Ernest L. Goode, Joplin, Mo.
Application May 8, 1948, Serial No. 25,940
4 Claims. (Cl. 43—57)



1. A minnow bucket comprising an open-topped container for water, a removable cover for said container comprising a sheet of fabric mounted over a suitable framework, means for spraying water from said container upwardly against the inner surface of said fabric cover, whereby said water is aerated and cooled, and automatic means for deflecting said spray downwardly whenever said cover is removed.

2,587,835
METHOD AND MEANS FOR UNDERWATER CONSTRUCTIONS
Charles Goodman, New York, N. Y.
Application August 1, 1946, Serial No. 687,751
3 Claims. (Cl. 61—82)

2. In a device for underwater excavations, the combination of an upwardly and downwardly movable operating chamber adapted to receive workingmen and predetermined instruments, tools and machinery, a downwardly open working chamber secured to its bottom, air communicating means between the two, a door between the two, means to lower or to raise said two chambers, a flexible and extendible compressed air conduit from the surface into said lock chamber, a muck chamber at the top of said operating chamber, and means in said operating chamber and working chamber adapted to raise material from said working chamber and deposit it in the muck chamber whereby upon raising said operating chamber to the surface, said deposited material will be raised with it.



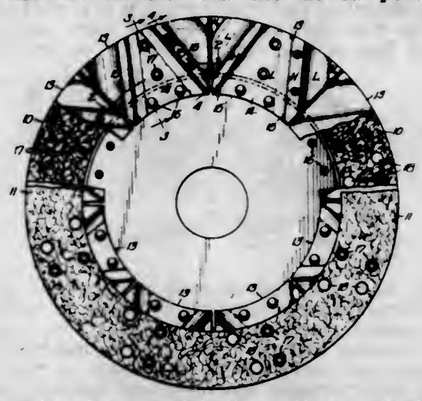
2,587,836
CARPET ANCHORING DEVICE
Russell Goodemoot, Glendale, Calif., assignor, by mesne assignments, to Mecasco, Inc., a corporation of California
Application July 22, 1949, Serial No. 106,141
18 Claims. (Cl. 16—16)



1. A carpet anchoring device, comprising a preformed strip of generally channel-shaped cross-section having a central web and spaced top and bottom flanges extending forwardly from said web toward the wall of a room in which said device is to be placed, said bottom flange extending forwardly a substantially greater distance than said top flange to project beyond said top flange and provide a wall engaging outer edge on said bottom flange, the extent of projection of said bottom flange beyond said top flange being substantially the same as the thickness of a carpet to be placed over and within the strip between its flanges.

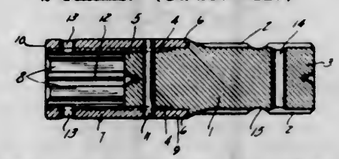
2,587,837
CLUTCH PLATE
George I. Goodwin, Birmingham, Mich.
Application May 10, 1947, Serial No. 747,283
5 Claims. (Cl. 192—107)

1. In a clutch driven plate, a pair of annular friction facings, a mounting disk of smaller diameter than the inner edges of the facings, which disk is characterized by a flat generally circular cushion attaching margin, and a plurality of relatively thin spring steel cushion members arranged in annular array about the disk between the facings, said cushion members having laterally juxtaposed flat and waved portions and being of substantially continuous, uninterrupted surface area over said portions, being marginally defined by substantially continuous and generally unidirectional edges, both portions of each cushion member being arranged to engage said disk in radially overlapped relation to the margin of the disk, with the flat portion rigidly secured thereto and the waved portion



bowed therefrom, and both portions extending outwardly from the disk into positions between the facings, with the flat portion rigidly attached to one facing and the waved portion rigidly attached to the other facing.

2,587,838
SPLINE ADAPTER COUPLER
Paul C. Green, Aberdeen, S. Dak., assignor to Hub City Iron Company, Aberdeen, S. Dak., a corporation of South Dakota
Application September 20, 1950, Serial No. 185,781
2 Claims. (Cl. 287—119)

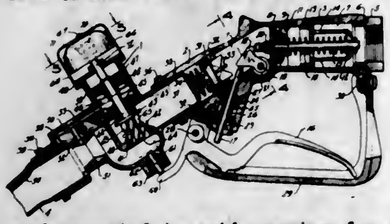


1. A spline adapter coupling comprising a shaft having external splines extending axially inwardly from its opposite ends and an annular shoulder at its intermediate portion, a cooperating sleeve telescoped over one end portion of said shaft and abutting said shoulder, said sleeve having internal splines engaging the splines on said one end portion of the shaft, said internal splines extending axially outwardly of the adjacent end of said shaft to provide means for coupling to a splined element, and means positively locking said sleeve to said shaft against axial movements in a direction away from abutting engagement thereof with the shoulder of said shaft.

2,587,839
AUTOMATIC SHUTOFF VALVE AND SIGNAL FOR HOSE NOZZLES
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application December 27, 1950, Serial No. 202,960
4 Claims. (Cl. 226—66)

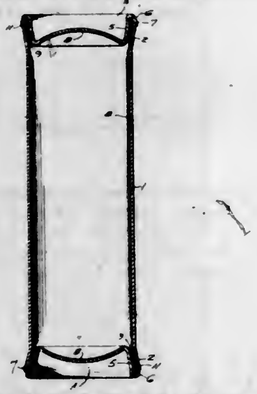
1. A safety device for nozzles used to fill containers comprising, a casing having a liquid-conducting conduit therethrough with an inlet adapted for connection to a source of liquid under pressure and an outlet spout adapted for inser-

tion in the container to be filled, a partition in said conduit having a cylindrical opening therethrough and an annular seat surrounding and coaxial with said opening, a valve disk coaxial with said seat and opening and mounted for movement in the direction of its axis toward and away from said seat, a turbine rotor carried by that face of said valve which lies adjacent said



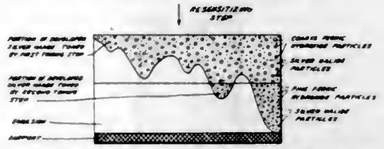
seat and mounted in said opening for sliding movement in the direction of said axis, a signaling means connected to said rotor to be actuated by rotation thereof, means for moving said valve away from said seat enabling liquid to flow from the inlet through the rotor and opening to the outlet, and means for moving said valve into engagement with said seat to stop the flow to said rotor and actuation of the signaling means.

2,587,840
WELDED ARTICLE AND METHOD OF MAKING THE SAME
Frederick A. Gruetjen, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application September 12, 1945, Serial No. 615,734
6 Claims. (Cl. 220—67)



3. An electric flash welded tank, comprising a cylindrical body having its wall flared outwardly at one end in a generally frusto-conical shape, a closure for said body set into said flared end and having a circumferential outwardly flared flange complemental to and wedged within said outwardly flared end of the body, the outer edge of said flange having a reverse bend therein to provide a substantially cylindrical edge portion facing a corresponding edge portion of the end edge of said body, an electric flash butt weld between said edges for the full circumference of the tank, and a compressible insulating gasket ring disposed in said reverse bend and extending past the weld into the region of said flared sections whereby said gasket is compressed between said flared sections during wedging of the latter by axial movement of the closure into the end of said body in the flash welding operation and said gasket substantially prevents inward upset of the edges in welding.

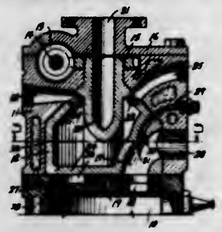
2,587,841
PHOTOGRAPHIC TONING AND RESENSITIZING PROCESS
Alan M. Gundelfinger, Los Angeles, Calif., assignor to Cinecolor Corporation, Burbank, Calif., a corporation of California
Application October 6, 1947, Serial No. 778,269
5 Claims. (Cl. 95—88)



1. In a process in which a plurality of developed silver images are sequentially produced in a silver halide photographic emulsion by printing a first latent image in said emulsion, developing and toning said first image to ferric ferrocyanide, converting the toned first image to a ferric hydroxide image, resensitizing the emulsion by converting the silver salts present therein to a silver halide, printing a second latent image in the resensitized emulsion with light for which said ferric hydroxide image has high absorption; the method of improving the quality of said second image by imparting to said resensitized emulsion a sensitivity substantially directly proportional to the masking effect of said ferric hydroxide, which consists essentially of conducting said toning with a plurality of toning solutions in successive toning steps including treating said developed first image, in a first toning step, with a first toning solution containing ferric ions, ferricyanide ions, and a complexing reagent for said ferric ions which suppresses the availability thereof for reaction to form ferric ferrocyanide, said first toning step being so controlled as to convert a portion of said developed first image to coarse ferric ferrocyanide particles confined to a surface layer of said emulsion, and subsequently treating said developed first image in a further toning step with a second toning solution containing ferric ions, ferricyanide ions, and a complexing agent for said ferric ions, the proportion of complexing reagent to ferric ions being greater in said second toning solution than in said first toning solution at the conclusion of said first toning step to make a smaller number of ferric ions available to the ferric ferrocyanide precipitate forming reaction and effect precipitation of ferric ferrocyanide at a slower rate than in said first toning step, said further toning step being so controlled as to convert an additional portion of said image to particles of ferric ferrocyanide of smaller size than those resulting from said first toning step and confined to a layer in said emulsion disposed below said surface layer, the relationship between the particle size of ferric ferrocyanide produced in said toning steps being such as to substantially completely compensate for the masking effect of the ferric hydroxide image.

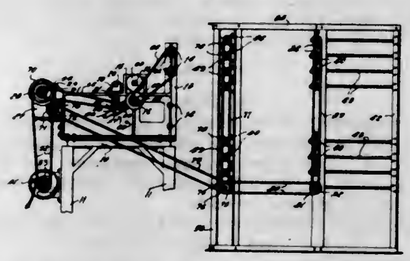
2,587,842
ROTARY VALVE WITH LIQUID FUEL INJECTION PORT
Charles W. Hall, Denver, Colo., assignor to M. S. Losey, Lakewood, Colo.
Application November 28, 1949, Serial No. 129,768
3 Claims. (Cl. 123—80)

1. A rotary valve for internal combustion engines comprising: a hollow rotary valve having a cylindrical lower portion terminating in a conical upper portion with a flat bottom in the lower portion; and exhaust passage extending from an eccentric position on said bottom to an axial position at the apex of said conical top; annular means surrounding said apex for imparting rotation to said valve; an intake passage



extending from an eccentric position on said bottom to a position on the peripheral wall of said valve; and a liquid fuel passage extending from a position on the conical surface of said valve to a discharge orifice within said intake passage.

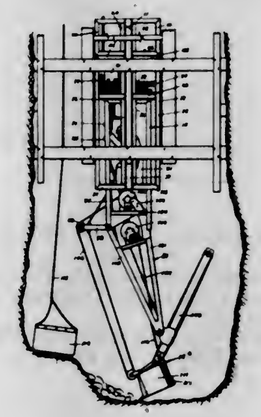
2,587,843
COLLATING MACHINE
Dewey L. Harrison, Dallas, Tex.
Application February 26, 1949, Serial No. 78,631
4 Claims. (Cl. 270—52)



1. In combination with a collating machine having a rack supporting rolls of marginally perforated paper and carbon webs, a web collecting and feeding mechanism comprising a frame, spaced uprights on one end of said frame, a group of vertically spaced web feeding rollers supported by said uprights, circumferentially spaced studs at one end of each of said feeding rollers adapted to be received by spaced and aligned perforations in the margins of said webs, a pair of web assembling rollers supported on said frame and disposed approximately midway between the top and bottom of said group of feeding rollers and between which all of said webs are constrained to pass, a circumferentially spaced series of studs in one end of each of said assembling rollers adapted to enter correspondingly spaced holes in the other of said rollers, means on said frame for severing the perforated margin from said webs, means for cutting the assembled webs into sections of predetermined length, and means for driving said feeding rollers and said assembling rollers at a predetermined speed ratio.

2,587,844
CAGE AND OPERATING MECHANISM FOR SHAFT SHOVELS
Patrick Harrison, Rouyn, Quebec, Canada
Application May 19, 1949, Serial No. 94,074
4 Claims. (Cl. 214—141)

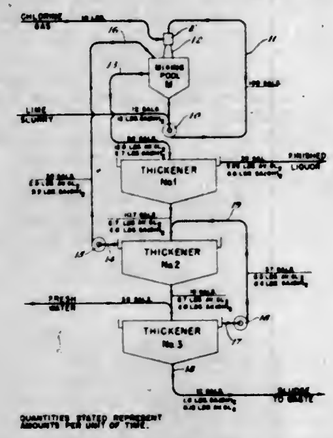
2. In a cage and operating mechanism for shaft shovels, a plurality of shaft timbers suitably supported in a vertical shaft, vertical guide rails supported by said shaft timbers, an outer cage, guide channels on the sides of said outer cage adapted to be engaged by said vertical guide rails, a cable means connected to said outer cage permitting the same to be raised or lowered, an inner cage accommodated within said outer cage, a turntable mounted above said inner cage, said turntable comprising an upper circular plate and a lower circular plate, said upper circular plate and said lower circular plate suitably spaced apart and having an annular tapered portion extending outward towards the periphery thereof, the annular tapered portion on each of said circular plates facing one another to form outwardly tapering annular jaws, gussets mounted in each corner of said outer cage, tapered rollers suitably mounted on said gussets and extending inward to engage in the annular tapered jaws formed by said upper and lower circular plates of said turntable, and guide rollers, rotatably mounted in the lower portion of said outer cage and engaging said inner cage, a swinging boom secured to the lower portion of said inner cage and extending downward therefrom, a shovel arrangement movably supported on the lower end of said swinging boom, a motor rotating said inner cage in either direction with respect to said outer cage, and hoists effecting a scooping action in said shovel arrangement.



2,587,845
MANUFACTURE OF CALCIUM HYPOCHLORITE BLEACH LIQUOR
Harold H. Heller, Appleton, Wis., and Robert G. Shirriff, Sylacauga, Ala., assignors to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application October 8, 1949, Serial No. 120,346
7 Claims. (Cl. 23—86)

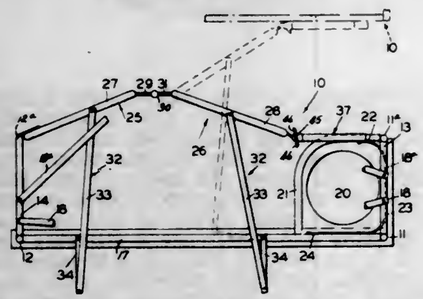
6. A continuous cyclic process for producing an aqueous solution of calcium hypochlorite suitable for use in bleaching pulp for papermaking, which comprises continuously feeding and reacting chlorine gas and a lime suspension in an agitated reaction zone, recirculating such reacted suspension, continuously withdrawing part of said reacted suspension into a settling zone, withdrawing super-lying finished bleach liquor from said settling zone, diluting the set-

tled sludge with an aqueous liquid and introducing it into a second settling zone, and returning



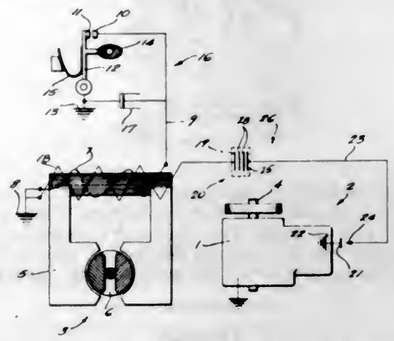
the super-lying liquor therefrom to said reaction zone.

2,587,846
MOVABLE FEED SHIELD FOR MILKER STALLS
Floyd G. Hodsdon, Milwaukee, Wis., assignor to International Harvester Company, a corporation of New Jersey
Application April 15, 1950, Serial No. 156,100
8 Claims. (Cl. 119—27)



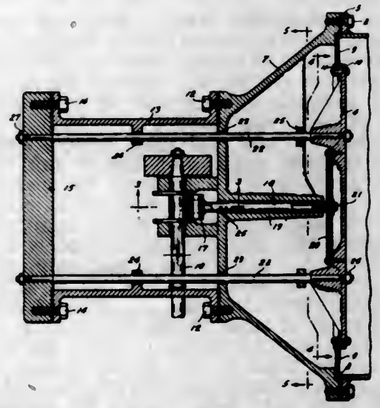
1. In an animal stall, upright and horizontally extending frame members connected together to provide a skeleton frame having front and rear end portions, a feed receptacle positioned at the front end portion within the frame, said frame having an entrance opening and an exit opening on one side thereof, the entrance opening being situated at the rear end of the frame and the exit opening being situated at the front end of the frame, entrance and exit gates hingedly connected to the frame for respectively closing the entrance and exit openings, a stationary shield connected to the frame adjacent the feed receptacle, said shield having one portion extending across the front end of the frame, and a second portion extending rearwardly on one side of the frame, a movable shield positioned adjacent the feed receptacle, the movable shield normally cooperating with said stationary shield to provide a feed retaining structure about the front end of the frame, and means hingedly connecting said movable shield to the exit gate whereby the movable shield may be moved from its feed retaining position upon opening of said exit gate thereby enlarging the exit opening.

2,587,847
IGNITION SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Gloris R. Hofmann, Cedarburg, Wis., assignor to Kiekhaefer Corporation, Cedarburg, Wis., a corporation of Wisconsin
Application June 22, 1949, Serial No. 100,737
1 Claim. (Cl. 315—224)



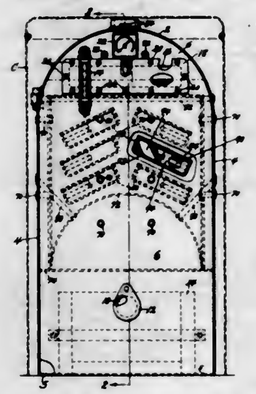
In an ignition system for engines, a source of high potential current, a spark plug for said engine, a condenser of a capacity not exceeding 5 micro-microfarads and a circuit connecting said source of current, spark plug and condenser in series, said circuit including lead wire not exceeding 18 inches in length.

2,587,848
PISTON TYPE SOUND GENERATOR
Caperton B. Horsley, Westwood, and Gordon C. Seavey, Arlington, Mass., assignors to Sonic Research Corporation, Boston, Mass., a corporation of Massachusetts
Application September 2, 1949, Serial No. 113,686
6 Claims. (Cl. 116—137)



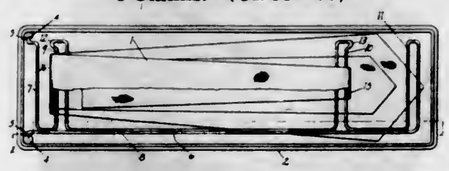
1. A piston type sound generator comprising a reciprocable piston, a relatively stationary support for said piston, resonating spring mountings fastening said piston to said support and elastically holding it stationary against motion in either direction, the resiliency of said mountings and the mass of said piston being so chosen that together they constitute a spring-mass system having a predetermined natural frequency of vibration, whereby when said system is vibrating at such frequency the inertia load of said piston will be sustained by said mountings, a driving mechanism for reciprocating said piston at said frequency, and a resilient driving connection between said mechanism and said piston to take up relative motion therebetween during starting and stopping, said resilient connection being substantially weaker than said spring mountings.

2,587,849
HORIZONTAL FIRE TUBE WELDED BOILER
Homer L. Hosking, Scarsdale, N. Y., assignor to Republic Boiler Corporation, New York, N. Y.
Application October 16, 1946, Serial No. 703,605
4 Claims. (Cl. 122—137)



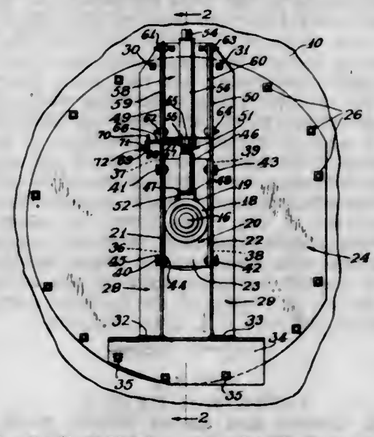
1. A heating boiler comprising a shell, a crown sheet and flue sheet within the shell, and a plurality of banks of angularly disposed longitudinally extending flues of rectangular cross-section positioned on opposite sides of the longitudinal vertical central plane of the boiler and connecting the shell and flue sheet above the crown sheet, said rectangular flues having their major transverse axes inclined upwardly and inwardly toward said longitudinal vertical central plane of the boiler, the angle of inclination of the said major flue axes being substantially twenty-five degrees with respect to the horizontal.

2,587,850
CONTAINER AND RACK FOR HOLDING AND PRESSING NECKTIES
Smith W. Hoover, Kalamazoo, Mich.
Application September 9, 1950, Serial No. 184,067
8 Claims. (Cl. 38—70)



1. A necktie carrying case comprising, an elongated box, a cover for said box, an elongated frame of folded wire having one end pivotally mounted within one end of said box and having a longitudinally extending side member positioned along one side of the box, an inner rack bar extending laterally from said side member adjacent the pivoted end of said rack, an outer rack bar extending laterally from said side member and positioned toward the opposite end of said box from said inner bar, and a presser bar extending laterally from the swinging end of said rack and positioned outwardly from said outer bar to engage the bottom of the box closely adjacent the opposite end thereof from said inner rack bar, said rack being substantially bowed in downwardly concave direction, said cover having a depending portion on the under side thereof positioned to engage and depress said outer rack bar when said cover is closed.

2,587,851
ADJUSTABLE SHAFT HANGER
Charles M. Hyman, Davenport, Iowa, assignor to International Harvester Company, a corporation of New Jersey
Application November 16, 1949, Serial No. 127,710
3 Claims. (Cl. 308—33)



1. A shaft adjusting mechanism comprising a supporting structure, a shaft carried by said supporting structure, a journal member for rotatably receiving said shaft, a guide member, means for slidably mounting said journal member with respect to said guide member, screw receiving means fastened to said journal member, screw means arranged and constructed to engage said screw receiving means, and means fastened to said supporting structure for journally receiving said screw means and holding the screw means against longitudinal movement, whereby rotation of said screw means effects a raising or lowering of said shaft depending upon the direction of rotation of said screw means, means locking the screw means against rotation after small increments of movement, and said means for locking the screw means against rotation including a collar integral with said screw means and having regularly spaced notches around the circumference thereof, and a spring urged pin slidably journaled in said supporting structure and adapted to normally engage one of said notches whereby rotation of said screw means is prohibited until the pin is withdrawn from the notch against the action of the spring.

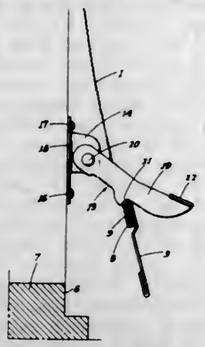
2,587,852
FLEXIBLE ICE TRAY
Fred S. Jahn and Joseph A. Carmien, Los Angeles, and John E. Mullings, Pacific Palisades, Calif., assignors to New Plastic Corporation, Los Angeles, Calif., a corporation of California
Application October 5, 1948, Serial No. 52,882
1 Claim. (Cl. 62—108.5)



A refrigerator ice tray to be placed in a freezing compartment of a refrigerator, said tray com-

posed entirely of a molded plastic material, and having a plurality of water cells disposed in two longitudinally extending rows, the cells in each row being disposed opposite to a corresponding cell in the other row, the lower portions of said cells having bottom walls, longitudinal side walls and transverse walls integral with the bottom walls, the said side walls of the cells diverging from each other upwardly from the bottom wall for a portion of the depth of the cells, and the end walls of the cells diverging upward from the bottom wall for a portion of the depth of the cells, said tray having transverse intermediate walls common to the cells on each side thereof and extending from the level of the upper edge of the tray down to the level at which the convergence of the end walls and the transverse walls of the cells terminates, the clearance space between the said diverging transverse walls of said cells operating when the tray containing ice cubes is held in an inverted position, to permit the same to be bowed downwardly in an arc, thereby widening the width of the cells between said common transverse walls, to facilitate the dislodgement of the cubes from the same, said tray presenting substantially vertical faces on its longitudinal side walls located above the level of the said converging side walls of the cells, adjacent to the side walls of the freezing compartment when the tray is in place therein.

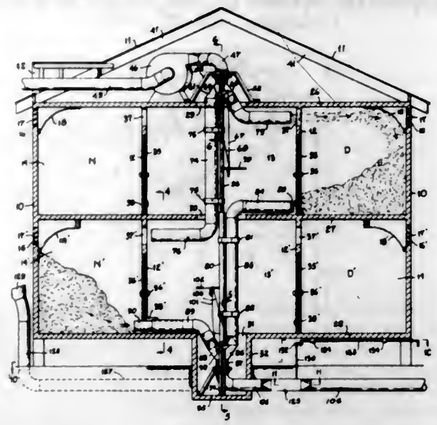
2,587,853
FASTENING DEVICE
Jack H. Jensen and David Jordan Rust, San Leandro, Calif., assignors to Ry-Lock Company, Ltd., San Leandro, Calif., a corporation of California
Application June 16, 1949, Serial No. 99,402
3 Claims. (Cl. 292—101)



1. A device for holding the bottom bar of a frameless window screen against a window casing, said device comprising a bracket adapted to be secured against one side of the window casing above the sill and projecting outwardly therefrom, a depending lever pivoted on the bracket for vertical swinging movement, and a downwardly facing hook on the inner edge of the lever intermediate its ends adapted to engage over the bottom bar; the width of the hook being no greater than that of the bar.

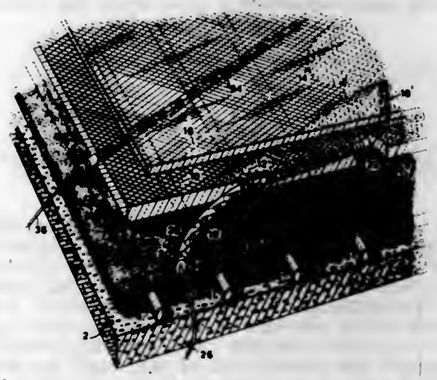
2,587,854
MATERIAL STORAGE AND HANDLING APPARATUS
Fred P. Johnson, Raeford, N. C.
Application June 17, 1946, Serial No. 677,296
8 Claims. (Cl. 214—16)

4. Apparatus for storing and withdrawing from storage bulk material, such as various fibers, comprising a building having an upper story and a lower story and having an outer wall and an inner wall, the inner wall being substantially circular in plan, a plurality of radially disposed partitions dividing the upper and lower stories into a plurality of compartments, the inner wall having an upper opening and lower opening therein communicating with each compartment, pneumatic means for delivering material into an upper opening in one of the stories at a time, said



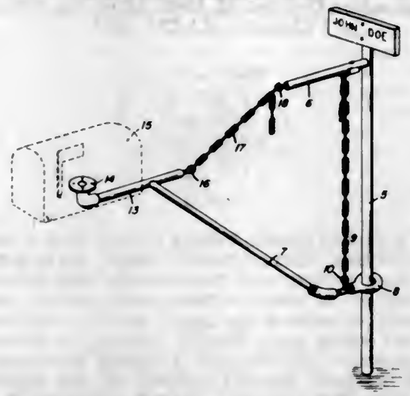
pneumatic means being rotatable to cause it to register with an upper opening in one of the compartments in both the upper and lower stories, suction means rotatably mounted in the lower story and having a pair of suction means disposed adjacent the inner wall and having extensible means for extending into the lower openings of said compartments, selectively operated means for creating a suction in one of the last-named means for withdrawing material from a selected compartment.

2,587,855
ILLUMINATION FOR ICE SKATING RINKS
Oscar F. Johnson, San Francisco, Calif.
Application February 25, 1949, Serial No. 78,245
7 Claims. (Cl. 62—12)



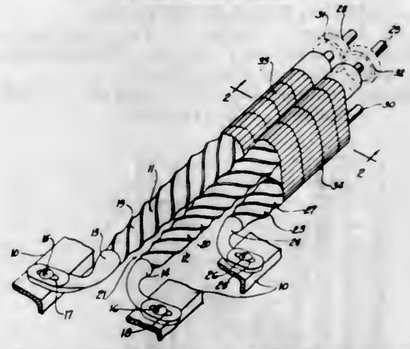
1. An ice skating rink including a floor, refrigerating means associated with said floor, a layer of ice on said floor, and illuminating means embedded within and substantially surrounded by said ice, said illuminating means comprising a light-transmitting plastic tube containing at least one incandescent source of light.

2,587,856
MAILBOX SUPPORT
August Charles Jung, Elkhorn, Wis.
Application July 13, 1949, Serial No. 104,464
1 Claim. (Cl. 248—145)



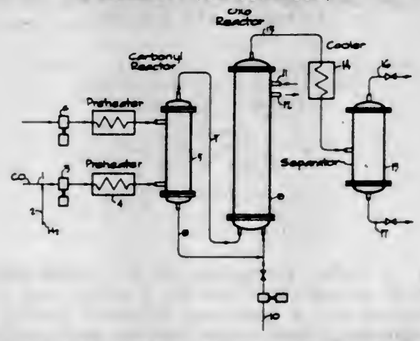
A mail box support comprising a post, a stationary upper arm projecting horizontally from the upper portion of the post, a movable lower arm, an eye at one end of the movable arm loosely connecting the movable arm to the post for horizontal swinging movement, said movable arm adapted to support a mail box at its outer end, a flexible hanger supporting the movable arm on the stationary arm, and a flexible member connecting the outer end of the movable arm to the stationary arm.

2,587,857
ENDLESS BELT SNAPPING ROLLS
Elof K. Karlsson, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application September 30, 1948, Serial No. 52,113
3 Claims. (Cl. 130—5)



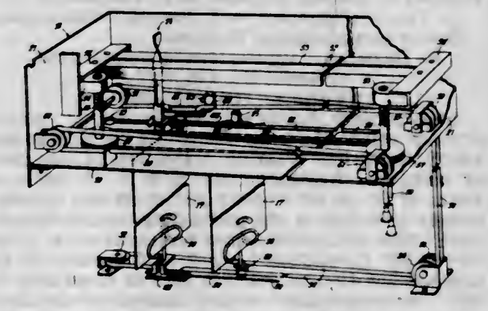
1. A corn snapping mechanism comprising a supporting structure, first and second rolls cooperating with each other to constitute a first pair of rolls, said first and second rolls journaled for rotation on said supporting structure, third and fourth rolls cooperating with each other to constitute a second pair of rolls, said third and fourth rolls journaled for rotation on said supporting structure, means for driving said rolls of each pair of rolls inwardly toward each other whereby the first and third rolls rotate in a first direction and the second and fourth rolls rotate in a second direction, said second pair of rolls disposed vertically beneath the first pair of rolls wherein the first and third rolls are in substantial vertical alignment and the second and fourth rolls are in substantial vertical alignment, a first flexible belt extending around the first and third rolls and a second flexible belt extending around the second and fourth rolls, means for imparting drive from the rolls to the flexible belts whereby the first and second flexible belts run downwardly at their cooperative inner mating surfaces, whereby the first and second flexible belts cooperate with each other to feed corn stalks downwardly therebetween with the stalk being effectively gripped over substantially the full length of the flexible belts, said rolls having portions extending beyond the flexible belts, said portions having spiral grooves so that the rolls of the first and second pairs of rolls cooperate to feed corn stalks along to the flexible belts.

2,587,858
PRODUCTION OF OXYGENATED COMPOUNDS
Aloysius I. M. Keulemans, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 1, 1948, Serial No. 24,669
In the Netherlands May 2, 1947
5 Claims. (Cl. 260—604)



1. In the synthesis of an oxygenated compound by the carbonylation of an olefin with carbon monoxide and hydrogen wherein the carbonylation is carried out in a carbonylation reactor with a fixed bed of cobalt catalyst, the improvement which comprises continuously supplying cobalt to the carbonylation reactor in the form of cobalt hydrocarbonyl.

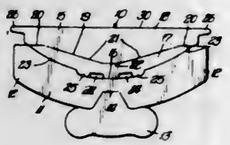
2,587,859
VENETIAN BLIND STRUCTURE
Robert S. King, Oak Park, Ill.
Application February 23, 1951, Serial No. 212,251
4 Claims. (Cl. 160—172)



1. In a window blind having a head frame with a slot extending longitudinally thereof, a plu-

rality of vertically disposed vanes, and a plurality of vane actuators arranged within said slot and respectively supporting said vanes, the combination of traversing means and means for rotating said vane actuators, said traversing means comprising a traverse control cord for moving said vane actuators in a horizontal plane across said head frame, each of said actuators having an elongated upper portion, said elongated portion being twisted at least 180° on its vertical axis, said rotating means being adapted to rotate said vane actuators 180° about their vertical axes and said rotating means comprising a slotted member embracing the elongated portions of said vane actuators, said slotted member having internally threaded means, threaded studs engaging said threaded means for controlling vertical movement of said slotted member perpendicularly in relation to said head-frame, and means for rotating said studs in synchronism.

2,587,860
SHIRT COLLAR SUPPORT
William R. Kohl, Glenview, and Arden L. Iverson, Chicago, Ill., assignors to Para-Lux Products Company, Chicago, Ill., a corporation of Illinois
Application August 13, 1947, Serial No. 768,304
11 Claims. (Cl. 223—83)

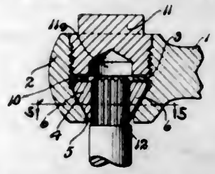


11. A collar protecting device comprising a portion engageable between a collar and shirt neckband and a neckband engaging portion integrally connected to said portion, said neckband engaging portion including two flexible, relatively elongated panels hingedly related at relatively widely spaced parts along their respective lengths and rearwardly of the integral connection of said portions, said device being folded upon itself and positioned in toggle-like locking engagement within the neckband of a shirt with the panel adjacent said integral connection engaging the inside of the shirt neckband and the free edge of the panel remote from said connection engaging the rear of the shirt.

2,587,861
PREPARATION OF BENZIDINE SULFATE
William S. Krause, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 13, 1951, Serial No. 215,373
2 Claims. (Cl. 260—579)

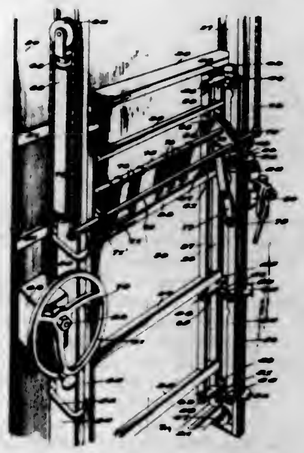
1. A process for preparing benzidine sulfate from a relatively pure benzidine hydrochloride which comprises treating a solution of one part of benzidine hydrochloride in 9 to 15 parts of water at 60° to 80° C. with sufficient salt to completely precipitate the benzidine hydrochloride, then while maintaining the temperature at from 60° to 80° C. adding from 2 to 2.5 parts of an aqueous solution of sulfuric acid of from 30% to 40% concentration which contains dissolved therein from 0.1 to 0.5 part of hydrochloric acid per part of sulfuric acid.

2,587,862
FAUCET HANDLE CONNECTION
Charles S. Krucki, Grand Rapids, Mich., assignor to Crampton Manufacturing Company, Grand Rapids, Mich., a corporation of Michigan
Application October 28, 1946, Serial No. 706,247
2 Claims. (Cl. 287—53)



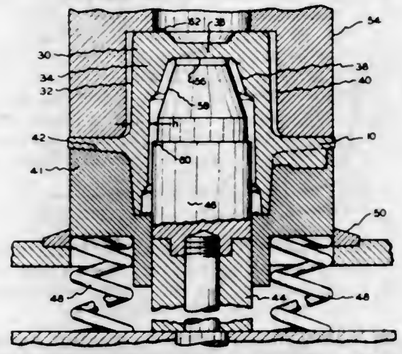
1. A faucet handle having a head with a vertical opening therethrough, screw threaded at its upper portion and downwardly and inwardly tapered at its lower portion, said opening being adapted to receive the upper end of a vertically located valve stem axially thereof, a plurality of generally part-circular gripping members located in said tapered portion of the opening, said gripping members having downwardly and inwardly inclined tapered outer sides, the horizontal radii of curvature of which is less than the curvature of the tapered sides of said opening in the head, said gripping members having sharpened teeth projecting from the inner curved sides thereof, said teeth being vertically disposed and being substantially parallel to the axis of the projecting upper end portion of a valve stem adapted to be located between them, and a plug screwed into the upper portion of said opening adapted to force said gripping members downwardly, said gripping members having a limited degree of strain permissible for yielding and conforming to the upper end outer surface of a valve stem adapted to be inserted between the gripping members, thereby adapting the gripping members to valve stems of differing diameters.

2,587,863
SLIDING BULKHEAD DOOR
Francis M. Lambert, Narberth, Pa., assignor to Heintz Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 11, 1946, Serial No. 715,397
3 Claims. (Cl. 114—120)



1. A water tight closure comprising a vertically movable door, a fixed framework having an opening adapted to be closed by the door, vertical guide means for the door mounted on said framework, a pair of cylinders mounted on said framework, pistons disposed in said cylinders and extending upwardly therefrom, a pulley mounted on the upper end of each piston, two chains each extending over a pulley, one end of each chain being secured to said framework, a leverage mechanism mounted on said door and having members engageable with said vertical guide means, spring means for actuating said leverage mechanism to urge the door forwardly into water tight closed position when the door is in position adjacent said opening, the other end of each chain being connected to said leverage mechanism, a source of fluid under pressure, conduit means connecting said source with said cylinders, and a manually controlled valve disposed in said conduit means and mounted on said framework.

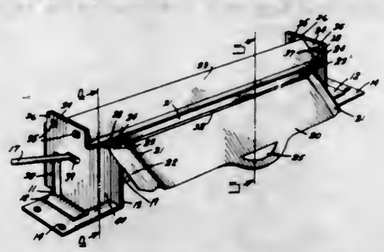
2,587,864
METHOD OF FORGING
Maurice P. Lefere, Jackson, Mich., assignor to Lefere Forge & Machine Company, Jackson, Mich., a corporation of Michigan
Application January 23, 1948, Serial No. 3,886
3 Claims. (Cl. 29—159.3)



2. A method of making a forged wheel hub characterized by the minimum weight of the forging billet, and minimum finish machining of the forged blank comprising the steps of forging a billet into a hub blank having a barrel portion with an undersize outer end which is closed by a pad portion merging with a wall portion of substantial thickness as compared with the final wall thickness and thereafter progressively shearing out said pad, expanding said outer end to size, by reducing the thickness of said wall portion, and shearing the excess stock from said wall portion all as a continuous uninterrupted operation.

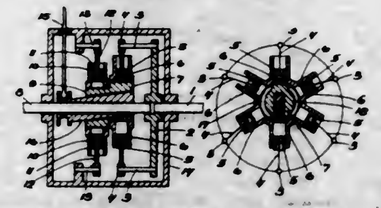
2,587,865
SHEET METAL BRAKE
Henry Leiser, Denver, Colo.
Application May 16, 1950, Serial No. 162,281
4 Claims. (Cl. 153—16)

1. A brake for bending sheet metal sheets comprising: a flat table plate; a flat gripping plate adapted to grip the sheet metal sheet against said table plate, one edge of each plate being in alignment with one edge of the other plate; a swinging plate; means hinging said swinging plate along an axis in alignment with the aligned edges of the first plates; an outwardly extending lever hingedly secured to said table plate at each extremity thereof; means guiding the swinging movement of said levers in a plane parallel to the plane of said table plate and angularly turned end members on said gripping plate extending at right angles to the latter and over and beyond the extremities of said table plate, said end members being slotted to receive said levers, the



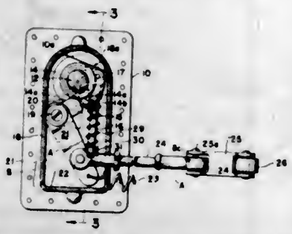
slots in the end members being inclined from the plane of said table plate so that when said levers are swung, they will act against said inclined slots to move said gripping plate toward said table plate.

2,587,866
CONTROLLABLE HYDRAULIC POWER TRANSMISSION
Anders Liljefors, Karlskrona, Sweden
Application November 24, 1947, Serial No. 787,674
In Sweden May 28, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 28, 1966
1 Claim. (Cl. 60—53)



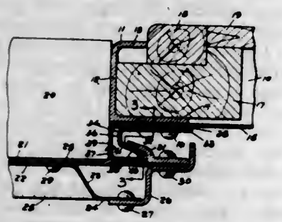
A hydraulic transmission comprising a driving shaft and a driven shaft, a first fluid pump system connected for rotation with said driving shaft, an operating member for the pumps in said pump system connected to said driven shaft, a second operating member connected to said driven shaft, a second fluid pump system acting as a fluid motor and adapted to operate said second operating member, each said pump system comprising a plurality of cylinders interconnected to form a unitary block, the operating chambers of both said pump systems being arranged to intercommunicate through valve ports and channels in the driven shaft, said operating members comprising two radially adjustable hub rings rotatable with said driven shaft and rigidly connected to each other, each of said cylinder blocks being rotatably mounted on a respective one of said hub rings, said hub rings having recesses at opposite sides thereof, said recesses being adapted in different positions to co-operate with different cylinders of their respective cylinder blocks, and being further interconnected in pairs in such a manner that the recess situated at one side of a common axial plane of said hub rings is connected to the recess situated at the opposite side of said common axial plane in the other hub ring, and that the recess situated at the other side of said common axial plane of the first-mentioned hub ring is connected to the recess of the other hub ring, which is situated at the same side of said common axial plane as the first-mentioned recess in the first-mentioned hub ring.

2,587,867
LATCH MECHANISM
Hal Raymond Linderfelt, West Los Angeles, Calif., assignor to Douglas Aircraft Company, Inc., a corporation of California
Application August 6, 1948, Serial No. 42,776
3 Claims. (Cl. 292—335)



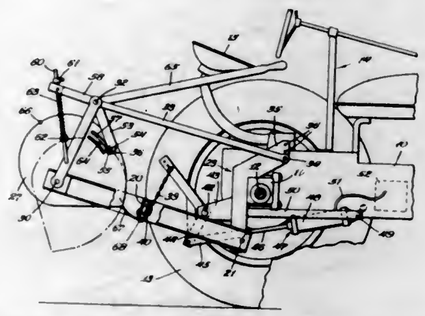
1. Latch mechanism for a door comprising a manually rotatable latch operating means, a bell-crank lever pivotally mounted upon the door upon an axis substantially parallel to the plane of said door, a first arm of said bell-crank lever rotatable into a block position in which it prevents manual operation of said latch operating means, resilient means attached to said bell-crank lever urging said first arm portion into said blocking position, stop means fixedly carried by said door for engagement by said manually rotatable latch operating means for defining the extreme limits of movement thereof, spring-pressed toggle means pivotally interconnecting said manually rotatable latch operating means with said door for snap-action movement of said manually rotatable latch operating means into either of said limit positions whenever manually rotated past an intermediate position and released at such position, and jamb engaging means including a pivotally mounted roller operatively carried by a second arm of said bell-crank lever arranged in such manner that in the closed position of said door, said jamb engaging means imparts rotation to said bell-crank lever thereby overcoming said resilient means and rotating said bell-crank lever into the unblocking position of said first arm portion in which said latch operating means is free to be manually actuated into either its latch extended or latch retracted limit position.

2,587,868
WATERTIGHT EDGE FOR RAILWAY CAR DOORS
Gabriel Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application September 3, 1947, Serial No. 771,977
4 Claims. (Cl. 20—21)



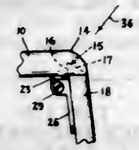
1. In a railway car having a wall provided with a door opening and a door post at the rear edge of the door opening having a rearwardly extending outer flange, a sliding door adapted to close said opening, vertically extending sealing means for the rear edge of said door secured to and along said wall adjacent to the rear edge of said door opening, said sealing means comprising inner and outer rearwardly facing substantially channel-shaped strips, said strips having inner and outer rearwardly extending contacting flanges and outwardly extending spaced webs, said inner flanges being secured to said post flange, said outer flange of said outer strip being inclined outwardly, a plurality of vertically spaced elongated slots formed in the web of said outer strip, and a sealing member on the rear margin of said door, said member engaging said inclined flange outwardly of said slots when said door is closed.

2,587,869
BOWL SCRAPER ATTACHMENT FOR TRACTORS
James R. Marshall, Temple, Tex., assignor to International Harvester Company, a corporation of New Jersey
Application May 3, 1947, Serial No. 745,790
7 Claims. (Cl. 37—124)



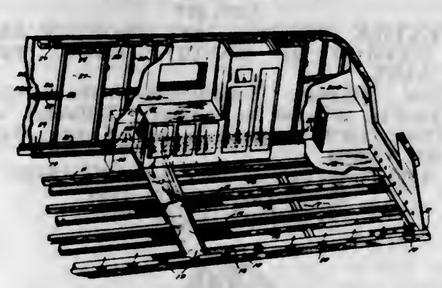
1. In combination with a tractor having a source of power and a transverse rear axle structure, a unitary frameless earth scraper attachment comprising laterally spaced pairs of vertically spaced generally parallel link structures, an earth scraping device pivotally mounted at the rear ends of said pairs of links and extending transversely therebetween, said scraper being tiltable about a transverse axis, means for releasably holding said scraper against tilting, means serving as brackets to which the forward ends of said pairs of links are respectively pivotally connected for generally vertical swinging movement to raise and lower the scraper, a transverse rock shaft carried by and extending between said brackets, clamping means carried by said brackets for detachably connecting the latter to the tractor rear axle structure at laterally spaced locations thereon, whereby the implement is supported entirely upon the tractor, a bell crank mounted on said rock shaft, flexible lifting connections between one arm of said bell crank and said parallel link structures, a ram unit deriving power from said source of fluid pressure to raise and lower the scraper comprising a sleeve member pivotally connected to the other arm of said bell crank, a cylinder detachably carried by one said bracket, and a piston rod movable in said cylinder and slidably receivable in said sleeve member to accommodate free vertical floating movement of the bowl independent of said ram unit, whereby in its ground engaging position the bowl may be rotated through a complete revolution during operation thereof.

2,587,870
OPHTHALMIC MOUNTING
Alton K. Marsters, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application May 3, 1949, Serial No. 91,035
3 Claims. (Cl. 88—53)



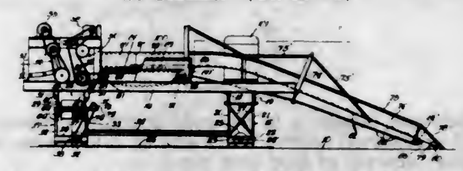
2. A lens supporting structure for the lenses of an ophthalmic mounting, said structure comprising a central bridge and lens contour following portions on the opposed sides of the bridge with which the lenses may be mounted, said supporting structure having rearwardly disposed temple end receiving means adjacent the temporal sides thereof embodying a pair of abutment surfaces arranged in substantially the form of a V, the temporally disposed abutment surface extending in an outward and rearward direction at an acute angle with respect to the general plane in which the lenses are to be mounted, and pivot means adjacent said abutment surfaces spaced rearwardly of the apex of the V and inwardly of said supporting structure relative to said abutment surfaces, and a pair of temples pivotally secured to said pivot means, said temples each having an end portion beveled to substantially fit with said abutment surfaces when the temples are pivoted to extended position.

2,587,871
HOUSE TRAILER HEATING SYSTEM
John May and John C. May, Youngstown, Ohio
Application March 28, 1949, Serial No. 83,954
4 Claims. (Cl. 237—43)



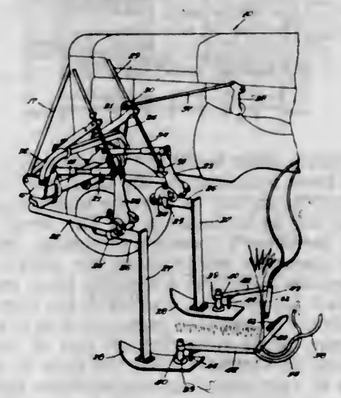
1. A heating system for a house trailer having hollow floor, side wall and ceiling portions and comprising a main closed distributing duct in the said hollow floor and a plurality of secondary distributing ducts positioned in the said hollow floor and about the edges thereof and communicating only with the said main duct, the secondary distributing duct about the edges of said floor having openings therein communicating with the walls and the walls having openings communicating with the interior of the trailer and with the ceiling area, ventilator boxes positioned in the hollow ceiling and communicating with the interior of the trailer and exterior of the trailer, the ventilator boxes having openings communicating with the hollow ceiling whereby air introduced into the said ducts will radiantly heat the said floor and heat the hollow walls and ceiling by convection and provide ventilation for the interior of the trailer.

2,587,872
ICING MACHINE
Harold O. McLain, Highland Park, Ill.
Application October 6, 1948, Serial No. 53,105
20 Claims. (Cl. 62—1)



1. A refrigerator vehicle icing machine comprising a main frame, an ice block elevating and conveying mechanism carried by said frame, an ice crushing and breaking mechanism mounted on said frame, a crushed ice hopper carried by said frame and located below said ice crushing and breaking mechanism, and a conveyor mounted in said hopper for conveying the crushed ice laterally in said hopper.

2,587,873
APPARATUS FOR CULTIVATION BY FLAME
James K. McNeill, Gary, Ind., assignor to International Harvester Company, a corporation of New Jersey
Application December 26, 1947, Serial No. 793,964
9 Claims. (Cl. 47—1)

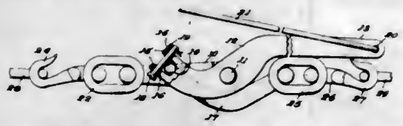


1. In a machine for destroying undesirable vegetation in a crop row between and around growing stemmed row crop plants, a vehicle adapted to travel between the crop rows and parallel thereto, a supporting member carried by the vehicle and pivoted at one end for swinging movement about a vertical axis, said member having at its outer end a burner head, said burner head being elongated and extending laterally across the plant row generally parallel to the ground, openings formed in the lower face of said burner head adapted to direct a flame generally vertically downwardly, and means for supplying a flammable fluid to said burner head.

2,587,874
LOAD BINDER
Fred A. Mockel, Kettle Falls, Wash.
Application February 15, 1949, Serial No. 76,460
1 Claim. (Cl. 24—68)

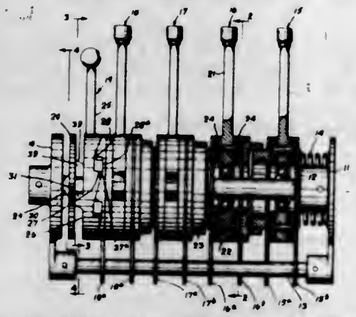
A binder of the character described comprising a main shackle, a lever pivotally connected with the main shackle, an arcuate shackle and means for latching the lever with the arcuate shackle, said means including a recess at the inner end of

said lever for receiving the arcuate shackle therein and a removably mounted lock pin for retaining the arcuate shackle in said recess, whereby



when said binder is in clamped position, pressure will be exerted on the inner end of said recess to allow removal of said lock pin.

2,587,875
CONTROL LEVER ASSEMBLY
John David Moore, Long Branch, Ontario, and Bryan Stevens Wood, Toronto, Ontario, Canada, assignors to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application April 12, 1951, Serial No. 220,586
10 Claims. (Cl. 74—471)



5. A control lever assembly comprising a shaft, a control lever mounted on the shaft for rotation, a compression spring to provide under compressive force an axial loading on the lever which restrains the lever's freedom to rotate, two non-rotatable members mounted on the shaft, spring loading means including a loading lever mounted on the shaft for rotation and having a face which bears against the opposed face of one of the members, a cam being provided on one of the said faces which co-operates with the face in opposition to it to vary the distance between the loading lever and the said one member when the loading lever is rotated, a conditioning device for the spring loading means including a conditioning lever mounted on the shaft for rotation and having a face which bears against the opposed face of the other member, a cam being provided on one of the opposed faces of the conditioning lever and the said other member, the said cam co-operating with the face in opposition to it to vary the distance between the conditioning lever and the said other member when the conditioning lever is rotated, the said variation in distance between the conditioning lever and the said other member being selectively adjustable to two positions by rotation of the conditioning lever, namely a release position and a conditioning position, whereby when the conditioning lever is in release position the force applied by the loading lever to the compression spring does not vary substantially with variations in the angular position of the loading lever, and when the conditioning lever is in conditioning position the variations in the angular position of the loading lever cause variations in distance between the loading lever and the member against which its face bears and thus vary the force applied to the compression spring, a reciprocatable rod pivotally connected at one end to the conditioning lever and which when moved in one sense rotates the conditioning lever to release position, a spring coupled to the rod and urging it in the said sense, a detent having a high point against which the other end of the rod normally bears, the said high point preventing movement of the rod in the said sense, and means for moving the detent from high point engagement with the rod to permit rotation of the conditioning lever to release position.

2,587,876
SEALING DEVICE FOR METERS AND THE LIKE
Robert Franklin Moore, Pueblo, Colo.
Application December 4, 1950, Serial No. 199,045
3 Claims. (Cl. 292—315)



1. A sealing device for meters and the like comprising: a cup-like shell having one closed face; a disc rotatably mounted in said shell and closing the open face thereof; an inwardly extending, axially positioned protuberance on said disc extending inwardly into said shell to the closed face thereof; and a length of wire attached at one extremity to said disc and extending eccentrically from said disc, said disc and the closed face of said shell each having a wire-receiving opening for receiving the other extremity of said wire, the fixed extremity of said wire being secured about said protuberance and extending outward through a second eccentrically positioned wire opening in said disc.

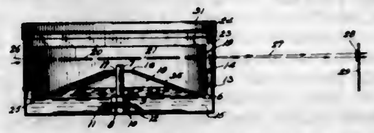
2,587,877
TEXTILE INTERMEDIATE PRODUCT AND METHOD OF MANUFACTURING THE SAME
Viktor Mössmer, Seewalchen-on-the-Attersee, Austria, assignor to Lenzinger Zellwolle- und Papierfabrik Aktiengesellschaft, Lenzing-Agerzell, Austria
Application July 26, 1949, Serial No. 106,897
In Austria March 25, 1949
11 Claims. (Cl. 28—72)



1. A textile intermediate product comprising a multiplicity of continuous parallel textile threads collected to a bundle having the form of a cable and at least one lacing member transversely drawn through said cable in a manner to divide said bundle of threads into parts each comprising a fraction of said continuous parallel threads.

2,587,878
LEVELING INSTRUMENT
Norman D. Nachtrieb, Chicago, Ill.
Application November 18, 1950, Serial No. 196,419
10 Claims. (Cl. 33—73)

1. A leveling instrument comprising a liquid-tight trough, a circular float having a vertical wall provided with a plurality of opposed horizontal sighting-slits, said float being adapted freely to float in liquid contained in said trough.



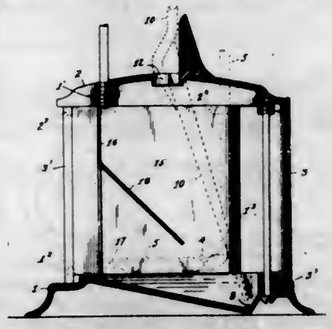
2,587,879
APPARATUS FOR LIQUEFYING PARAFFIN IN WELLS
Paul H. Nash, White Deer, Tex.
Application February 4, 1949, Serial No. 74,541
3 Claims. (Cl. 166—17)



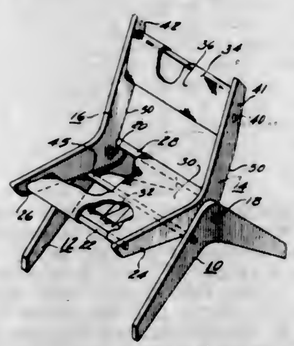
1. In a paraffin extractor for cased wells, an elongated tubular body incorporated in the length of the tubing string in a well and composed of a material having a low coefficient of expansion, said body having circumferentially spaced ports therein adjacent its lower end, a tubular expansion element surrounding said body and composed of a metal having a high coefficient of expansion, said tubular expansion element being in fixed relationship with said tubular body at its upper end, a sleeve attached to the lower end of said tubular expansion element, slidable on said tubular body and having ports alignable with those of said tubular body and means for introducing steam into the casing of said well, the difference in coefficient of expansion between said tubular expansion element and said body being sufficient under the temperature of said steam to cause said expansion element to expand and to bring into register the ports of said sleeve and body for the admission of steam into said body and tubing string.

2,587,880
HEARTH KIT
Lewen R. Nelson, Peoria, Ill.
Application March 6, 1947, Serial No. 732,885
4 Claims. (Cl. 211—60)

2. In a receptacle for hearth tools, the combination of a supporting base having tool-receiving sockets therein; a top closure spaced above said base and having openings therethrough, said openings being each aligned above one of said tool-receiving sockets; a vertical partition of ribbon-like sheet form disposed between said base and top closure, said partition being generally U-shaped in plan and having its top and bottom edges abutting said top closure and base, respectively, the arms of the U of said partition each extending adjacent to one of said tool receiving sockets of said base and forming a guideway to direct a tool into said socket as the tool is inserted into the receptacle through said top closure, and means connecting said base and top closure and clamping said base and top closure against the bottom and top edges of said partition.



2,587,881
FOLDING AND STACKING CHAIR
Earle D. Oakes, Drexel Hill, Pa., assignor to Archie Lewy, Philadelphia, Pa.
Application January 26, 1950, Serial No. 140,619
8 Claims. (Cl. 155—139)

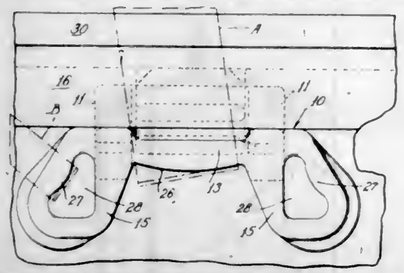


1. A chair including a first pair of substantially identical members, each formed of two limbs which are substantially normal to each other, cross braces connected to and spacing said members, a second pair of substantially identical members, each formed of two limbs which are substantially normal to each other, and fastening means rotatably connecting the members of the said first pair to the corresponding members of said second pair, said means passing through said members near the junctions of the limbs thereof respectively.

2,587,882
LADING TIE FASTENER
Gilbert F. Oakley, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application July 10, 1950, Serial No. 172,851
7 Claims. (Cl. 105—369)

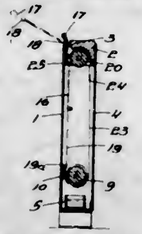
1. A lading tie fastener for a railroad gondola car having walls provided at top with a bulb

angle flanged at the outer edge comprising a tie element holding anchor provided at one end with a pivot-forming rod portion and at the other end with a tie element receiving bar, and a skeleton body portion of predetermined length and connected, respectively, at its ends with the ends of



said rod and of said bar; and a fulcrum providing plate of width approximately the length of said rod and formed intermediate its ends to provide a socket to pivotally receive said rod portion while the ends of said plate are immovably secured to the lower face of the bulb angle of a railroad gondola car.

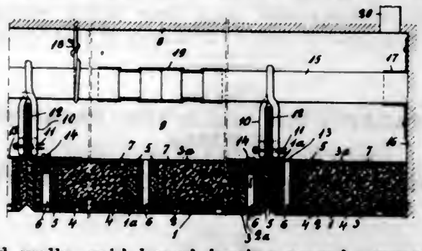
2,587,883
APPARATUS FOR THE PRODUCTION OF PRINTS
Henrik Adrian Olsson, Malmo, Sweden
Application February 28, 1950, Serial No. 146,868
In Sweden March 4, 1949
10 Claims. (Cl. 95—89)



9. An apparatus for developing prints, comprising a substantially closed casing having a slot for the passage of printing stock, means for containing a supply of liquid delivering a developing gas within said casing, cloth means provided in said casing and including two cloths extending in closely juxtaposed parallel relation downwards into the casing from said slot to receive printing stock between them, at least one of said cloths being permeable to gas, means associated with said cloth means for supporting said printing stock, manual means for moving said cloths towards said slot, and means for imposing a retaining force on said cloths in opposition to said manual means and for returning said cloths away from said slot to introduce exposed sheets of printing stock one by one into said casing and discharge said sheets after development, respectively, through said slot.

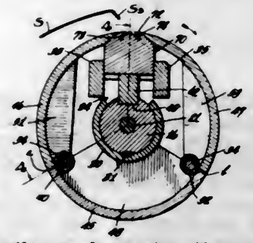
2,587,884
SOUND INSULATION BOARD
Per Anders Palmér, Stockholm, Sweden
Application February 5, 1947, Serial No. 726,551
In Sweden October 30, 1945
5 Claims. (Cl. 98—40)

1. A sound insulating device for buildings comprising in combination a board, spaced walls of hard material extending transversely of the board and arranged perpendicularly thereto, means for attaching said board to the fixed structure of the building with the front surface of the board facing the interior of a room in a building, a free air distributing space at the rear side of said board between the same and the fixed structure of the building, means for supplying fresh air to said space, at least one sound absorbing porous body supported by the rear side of said board between



said walls, said board having sound permeable slots therein between the walls whereby said slots are in communication with the sound absorbing porous body, each of said walls being provided with a passage extending throughout the length thereof and said board having apertures therein registering with said passages, thereby defining a communication path between the free air distributing space and the interior of the room.

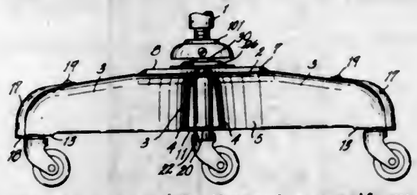
2,587,885
EXPANSIBLE MANDREL
Homer Daugherty Paxson, Salem, Ohio
Application December 20, 1946, Serial No. 717,475
7 Claims. (Cl. 242—72)



2. In a coiler reel construction, a collapsible and expansible drum, expansible to provide for winding of material thereon and collapsible to provide for ready removal of the coiled material, movable means providing for expansion or collapsing of said drum, in expanding position having a portion in communication with the drum surface, said portion having recess means for receiving the leading edge of the material to be wound on said drum, and in expanding position said recess means being accessible to receive the leading edge of said material, said recess means being so constructed and arranged that the leading edge of said material is removed therefrom when said movable means is moved to drum collapsing position, whereby coiled material may be readily removed.

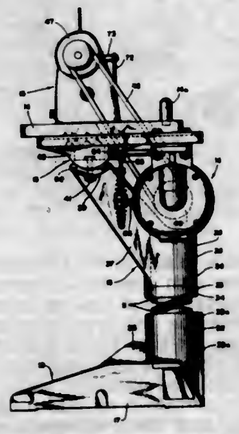
2,587,886
BASE OR PEDESTAL FOR CHAIRS
Henry A. Penchoen, Sturgis, Mich., assignor to Harter Corporation, Sturgis, Mich., a corporation of Michigan
Application January 16, 1947, Serial No. 722,435
6 Claims. (Cl. 248—194)

1. The combination in a chair pedestal or base, of a body member comprising a central chambered hub portion and radial arms formed integrally therewith as a hollow stamping, the arms being of downwardly facing channel section, the sides and top thereof merging with the sides and top of the hub portion, the sides of the arms merging into rounded closed ends, the sides of the arms having inturned bottom flanges terminating in spaced relation to the ends of the arms, the sides beyond such flanges extending below the flanges with the bottom edges thereof turned inwardly and upwardly against the sides, castor socket plates disposed within the ends of the arms



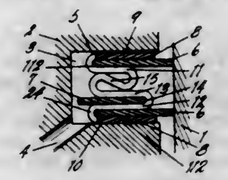
and welded to the walls thereof, a cruciform bottom plate fitting within the side walls of the hub portion and welded thereto, the top wall of the hub portion having a cruciform boss struck up therefrom with the arms thereof aligned with the arms of the body member, a spindle socket plate disposed on and welded to said boss and having a central upset portion, said socket supporting plate, the top of said hub portion and said bottom plate having aligned openings therein, and a tubular spindle socket disposed through said openings and welded to said socket supporting plate and bottom plate.

2,587,887
SEWING MACHINE AND DRIVE WITH SUPPORT THEREFOR
Albert C. Peterson, Park Ridge, and Walter O. Will, Oak Park, Ill., assignors to Union Special Machine Company, Chicago, Ill., a corporation of Illinois
Application September 16, 1949, Serial No. 115,968
12 Claims. (Cl. 112—258)



1. In sewing apparatus having a pedestal support and a sewing machine and a driving unit therefor mounted on said support, the support including a vertically disposed column, the combination which comprises a bracket secured to said column adjacent its upper end and having an arm extending upwardly therefrom at an acute angle to the axis of said column, a substantially flat support member mounted on the upper end of said arm, said arm and support member having cooperating arcuate surfaces through which the load is transmitted from said member to said arm, means for clamping said arcuate surfaces together in a plurality of relative positions, and means for attaching said sewing machine and driving unit to said support member.

2,587,888
COMPOSITE PISTON RING ASSEMBLY
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application April 3, 1950, Serial No. 153,740
14 Claims. (Cl. 309—45)

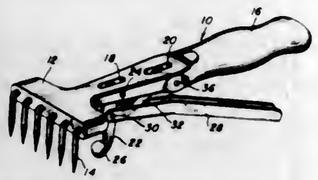


1. A piston ring comprising an annular split combined carrier and spacer member formed of ductile ribbon stock folded longitudinally providing axially spaced side members adapted to coact with the side walls of a piston ring groove in which the assembly is installed and intermediate folds joined to the inner edges of the side members, the reaches of the intermediate folds adjacent the side members being disposed in spaced relation to the side members and coacting therewith to provide outwardly facing cylinder wall contacting element grooves, certain of the adjacent reaches of the folds of the carrier member being disposed in spaced relation to each other providing an inwardly facing expander element groove, annular thin split resilient cylinder wall engaging elements formed of ribbon steel coiled edgewise and of a thickness of the order of .010 to .016 of an inch disposed in said outwardly facing grooves in radial supported engagement with the bottom thereof, and a split annular resilient expander element formed of ribbon steel coiled edgewise disposed in said inwardly facing groove with its outer edge in radial supported engagement with the bottom of the groove, the sides of said cylinder wall engaging and expander elements being in axial supported relation with the sides of the grooves, whereby they are supported against dishing and kinking when the assembly is compressed within a cylinder wall with the inner edge of the expander element spaced from the bottom of a piston ring groove in which the assembly is installed, the said intermediate folds having angularly spaced slots therein providing drain openings.

2,587,889
SCREEN STRETCHING TOOL
Thomas D. Picton, Rockport, Tex.
Application July 6, 1948, Serial No. 37,260
1 Claim. (Cl. 140—109)

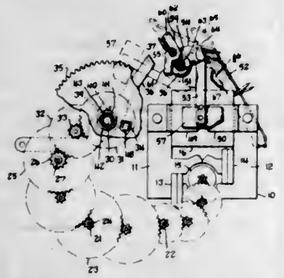
A screen stretcher comprising an elongated handle having a plurality of downwardly inclined gripping prongs at one end thereof, first and second longitudinally spaced vertical slots extending through said handle intermediate its ends, a pressure arm vertically pivoted at one of its ends to said handle through said first slot, said pressure arm including a spherical bearing member at its other end, a horizontal pin carried by said handle and extending through said sec-

ond slot, resilient means normally urging said pressure arm away from said prongs and including a coil spring terminally secured to said pin and to said pressure arm intermediate its ends, and lever actuated means for urging said pressure arm towards said prongs including an elongated lever arm vertically pivoted at one of its ends to said pressure arm beneath the point



of attachment of said spring, and a link terminally pivoted for vertical movement to said horizontal pin and said lever arm adjacent the pivotal attachment of the latter to the pressure arm whereby vertical movement of the lever arm towards the handle will urge the spherical bearing on the pressure arm towards the prongs against action of the spring.

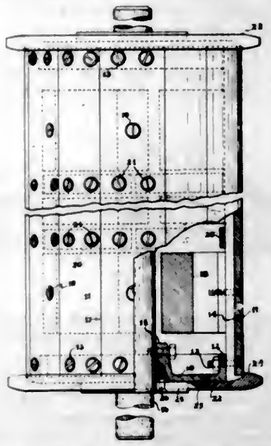
2,587,890
ELECTRIC ALARM CLOCK
Arthur B. Poole, Harwinton, Conn.
Application November 10, 1949, Serial No. 126,487
5 Claims. (Cl. 58—38)



1. In an electric alarm clock, the combination including: an electric motor embodying a bipolar field magnet and rotor; alarm actuating means comprising a pair of auxiliary pole pieces of said field magnet; an armature resilient in one direction; a rotatable mount for said armature having an axis parallel to said resilient direction; manual means for rotating said mount to remove said armature from the influence of said auxiliary poles; and means for returning said mount to a position bringing the armature into the influence of said poles.

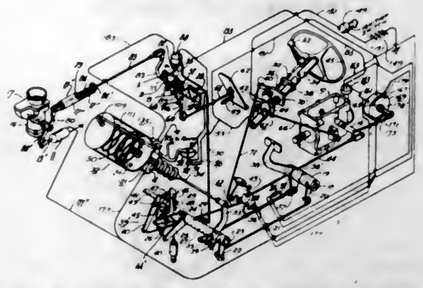
2,587,891
MAGNETIC PULLEY
William C. Potthoff, Cuyahoga Falls, Ohio, assignor to Eriez Manufacturing Co., Erie, Pa., a corporation of Pennsylvania
Application November 18, 1946, Serial No. 710,587
1 Claim. (Cl. 209—219)

A magnetic pulley comprising a shaft, a pair of spaced non-magnetic end members secured to the shaft, a plurality of bars secured to and extending between the end members, said bars being circumferentially spaced and abutting along the longitudinal edges thereof in side-by-side relationship, the outer surface of said bars providing a continuous cylindrical surface extending between the end members, said bars being alternately of magnetic and non-magnetic material, a plurality of permanent magnets, opposite poles of the magnets being secured to the inner surfaces of the bars of magnetic material in circumferentially spaced relationship whereby



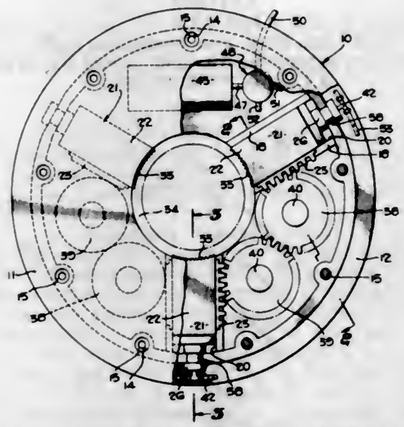
alternate magnetic bars are of opposite magnetic polarity, and non-magnetic reinforcing bars secured to and extending between adjacent bars on the inner surfaces thereof, said reinforcing bars providing a hoop-like structure tying the bars together intermediate the end members.

2,587,892
TRANSMISSION OPERATING MECHANISM
Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 5, 1947, Serial No. 732,635
10 Claims. (Cl. 192—.073)



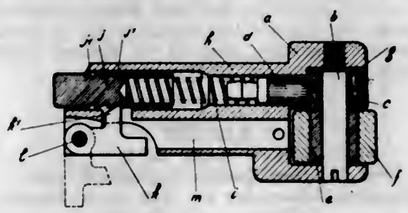
1. In the power plant of an automotive vehicle the combination with a manually operable clutch pedal and a change speed transmission, of power means for operating the transmission to alternately effect two settings thereof, said means including a fluid pressure operated motor operably connected to the transmission, valve means for controlling the operation of said motor to effect an energization and then automatically effect a de-energization of the motor in its operation of the transmission, and means for controlling the operation of said valve means comprising a vehicle speed responsive governor, electro-magnetic means operably connected to the valve, selector switch means including two switches, operated by said governor, a motor operated selector switch mechanism including two switches, one of the same being electrically connected in series with the electro-magnetic means and with one of the governor operated switches and the other being electrically connected in series with the electro-magnetic means and with the other of the governor operated switches, and clutch pedal operated switch means operative to overrule an operation of the governor operated switch means in its control of the mechanism.

2,587,893
PIPE CHUCK
Whetstine B. Pridy and Robert C. Howard, Long Beach, Calif.
Application August 8, 1949, Serial No. 109,161
11 Claims. (Cl. 279—4)



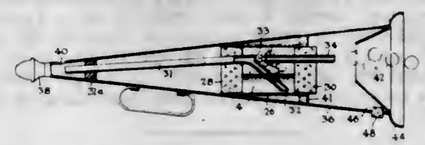
8. A rotary chuck comprising a body member, radial guideways thereon, a plurality of radially disposed piston structures fixed on said body member at their outer ends to extend radially inwardly longitudinally of said guideways, a plurality of jaw structures slidably mounted in said guideways each of which includes a cylinder slidably receiving the piston structure in its respective guideway and a jaw formed on the head of said cylinder, and means for delivering fluid under pressure through said piston structures into said cylinders to shift said jaws inwardly.

2,587,894
YOKE FOR PYROPHORIC LIGHTERS
Marcel Quercia, Paris, France
Continuation of application Serial No. 50,524, September 22, 1948. This application December 4, 1950, Serial No. 198,981
4 Claims. (Cl. 67—7.1)



1. A self-contained yoke unit for pyrophoric lighters comprising in combination a narrow elongated cylindrical housing; a friction wheel mounted within said cylindrical housing at one end thereof turnably about an axis extending normal to the axis of said cylindrical housing; an operating wheel secured to said friction wheel so as to enable manual turning of the same about its axis of turning; a flint arranged in said cylindrical housing slidably within the same; spring means arranged also in said cylindrical housing pressing said flint against said friction wheel; a pressure member arranged at the other end of said cylindrical housing slidably within the same so as to abut against said spring means and force the same against said flint, said pressure member having a plurality of circumferential grooves each having a first wall arranged substantially at right angles to said pressure member and a second wall inclined at an angle substantially different from 90° with respect to the axis of said pressure member; and an adjusting member movably mounted on said cylindrical housing and having a shape corresponding substantially to the cross-section of said grooves and including an inclined face adapted to engage and hold said pressure member in different positions within said cylindrical housing, thereby adjusting the pressure exerted by said spring means against said flint.

2,587,895
BUBBLE BLOWING DEVICE
Fred A. Quinn, Jr., and Max Tryon, Washington, D. C.
Application December 31, 1947, Serial No. 794,904
4 Claims. (Cl. 46—7)

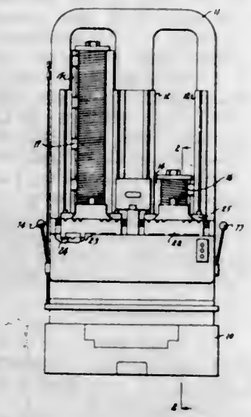


1. Apparatus for blowing bubbles, comprising a reservoir for a bubble forming solution, a bubble exit pipe carried by said reservoir, an air inlet pipe positioned in said reservoir and having its inner end submerged below the level of the solution therein for thereby forming a succession of small bubbles which rise into the space above the solution, adjacent said exit pipe, a second air inlet pipe in said reservoir, opening above the liquid level therein, and directed toward said exit pipe, for supplying air for impelling said small bubbles formed by the first air inlet pipe into and through said exit pipe.

2,587,896
BROACHING MACHINE
Emery C. Raehrs, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application July 3, 1950, Serial No. 171,801
4 Claims. (Cl. 90—33)

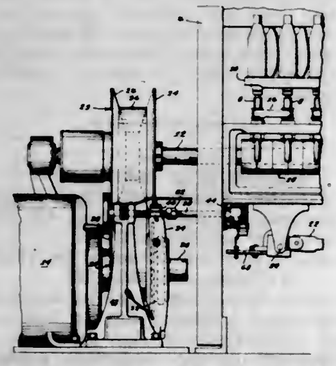
1. A duplex broaching machine comprising a bed, column means rising from the bed and provided with spaced sets of ram guides, a pair of rams individual to the respective guides supported by the guides for reciprocation thereon with respect to the column, a work carrier individual to each ram, guides on the bed supporting each work carrier for movement toward and from its associated ram, a first toggle mechanism for effecting reciprocation of one of the work carriers toward and from its ram, a second toggle mechanism for effecting corresponding reciprocating movements of the other work carrier, and a control shaft rotatably supported by the bed having a pair of oppositely phased eccentric portions, a link connecting one of said eccentric por-

tions with one of the carrier toggle mechanisms, a second link connecting the other of said eccentric portions with the other toggle mechanism, means for imparting oscillatory movement to the shaft, whereby the links will oppositely react on the respective toggle mechanisms simultaneously to effect an opening of one toggle mechanism and



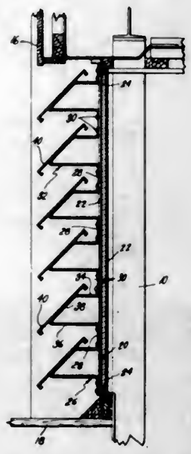
retraction of its carrier and a closing of the other toggle mechanism and forward movement of its associated carrier, a cycle control valve carried by the bed in juxtapositioned relation to the shaft, and a dog element carried by the shaft in position for engagement with the cycle control valve to actuate the latter upon oscillation of the shaft.

2,587,897
SPEED CHANGING DEVICE FOR SPINNING FRAMES
Thomas G. Rayfield, Greenville, S. C.
Application February 17, 1951, Serial No. 211,503
7 Claims. (Cl. 57—95)



1. In a spinning frame having a spindle, a reciprocating ring rail, a main shaft adapted to rotate said spindle and reciprocate said ring rail, drive means, and a variable speed drive interposed between said drive means and said main shaft and incorporating an axially expansible driven sheave mounted on said main shaft, an axially expansible drive sheave mounted on said drive means in operative association with said driven sheave, and a shifting lever adapted for expanding and closing said drive sheave, the improvement which comprises means for controlling said variable speed drive and thereby uniformly increasing the spindle speed throughout the doff, said means comprising a rotatable shifting screw mounted adjacent said drive sheave and having a threaded engagement with said shifting lever, a ratchet wheel on said screw, a pawl carrier mounted on said screw, a driving pawl mounted on said carrier for engagement with said ratchet wheel, and means imparting to said pawl carrier alternate working and return strokes in response to the reciprocations of said ring rail, whereby said shifting screw is intermittently and uniformly rotated and the effective diameter of said drive sheave is gradually increased to increase the speed of said spindle.

2,587,898
LOUVER
John Lyon Reid, San Francisco, Calif.
Application September 19, 1949, Serial No. 116,490
3 Claims. (Cl. 20—63)

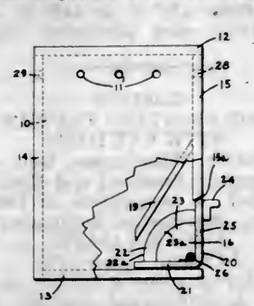


1. In a light-diffusing system for the windows of a building structure, a louvre support bracket comprising a unitary strip having a plurality of spaced apart co-planar foot portions, interconnected by laterally offset portions each of said laterally offset portions comprising a pair of spaced leg members of dissimilar length interconnected by a bridge member forming an acute angle with the longer of said leg members and an obtuse angle with the shorter of said leg members, said bracket being adapted to have its foot portions secured to window sash so that the bracket extends vertically across a window, with the bridge members thereof being adapted to serve as the supporting surfaces for a plurality of louvre members carried in spaced angular relation with respect to the window.

2,587,899
LIVE BAIT BOX
Fred Charles Rhodes, Inglewood, Calif.
Application September 24, 1948, Serial No. 50,990
2 Claims. (Cl. 43—55)

1. A fisherman's bait box for live bait comprising a transparent receptacle having a wall with an opening therein, a pivot extending transverse to the opening and parallel to one edge thereof, and a trap swingably mounted on the pivot, said trap having two sides at right angles to each

other, and opposing walls, each secured to both sides, the free edges of the opposing walls being

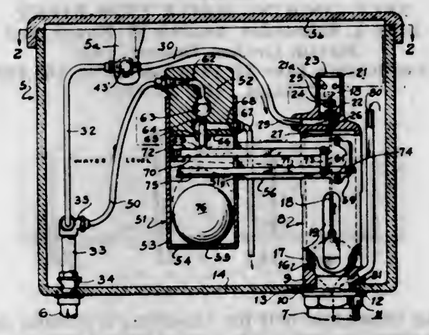


arcuate, and one of said edges having a smaller radius than the other.

2,587,900
HEAT-TREATMENT OF METALS
Alfred Gordon Evans Robiette, London, England
No Drawing. Application October 26, 1949, Serial No. 123,800. In Great Britain October 28, 1948
3 Claims. (Cl. 148—13.1)

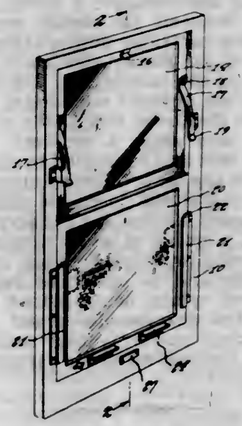
1. The process of heat treating metal in a substantially closed furnace in preheating and final heating stages successively, which comprises passing the metal to be treated in one direction through the furnace and a fluid fuel and a gas containing 70% or more oxygen in the opposite direction, partially burning the fuel and gas at the exit end of the furnace in direct contact with the metal to produce an atmosphere which, at the temperature of treatment at said exit end, is non-oxidising to the metal, and passing the products of partial combustion to the cooler entry end of the furnace and burning said gases to further combustion in direct contact with the metal at said entry end so as to preheat the metal entering the furnace.

2,587,901
VALVE MOUNTING AND OPERATING MEANS FOR TOILETS
Eugene Robinson, Los Angeles, Calif.
Application August 4, 1950, Serial No. 177,735
2 Claims. (Cl. 4—41)



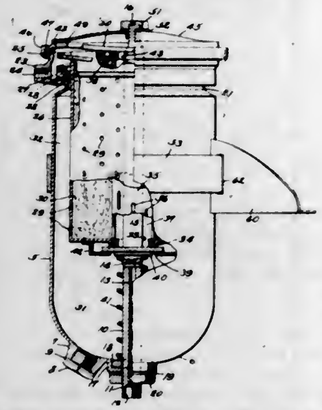
1. In a device of the kind described, an elongated housing having a tubular axial extension and attached to the bottom of a toilet tank in an upstanding overlying relation to the flushing outlet, said housing having a vertically slotted bottom portion, a buoyant flushing valve positioned to open and close said outlet, the lower portion of said housing guiding the closing movement of said valve to its seat, a manually controlled hydraulically operated piston means in said extension connected with said valve to open it for flushing operations, an elongated bracket attached to and extending horizontally away from said housing, a valve casing carried by the outer end portion of said bracket, a needle valve within said casing arranged for vertical movement to control inflow of water into the tank to refill the latter after flushing operations, a horizontally extending vertically swingable arm having one of its ends pivotally attached to said casing, that end of said arm forming the short end portion of a lever which multiplies force to close said needle valve, an operating lever for said arm in a parallel subjacent relation thereto and linked to that end of said arm which is opposite to its attached end, one end of said lever being in a pivotally attached relation to the part of the aforesaid bracket that is attached to the aforesaid housing, the opposite end of said lever projecting into said valve casing, and a buoyant body loosely contained within said casing subjacent to the latter end of said lever, said buoyant body, as the tank is refilled, acting upon said lever to close said needle valve.

2,587,902
GUIDE SPRING FOR COMBINATION STORM WINDOWS AND SCREENS
Jerome A. Robinson, Yonkers, and Vincent Agnifilo, New Rochelle, N. Y.
Application December 8, 1949, Serial No. 131,848
1 Claim. (Cl. 292—76)



A guide spring clip for a combined screen and storm window arrangement comprising a bracket having an attaching portion adapted for attachment to a retaining frame of the arrangement, a flat spring including a base portion extending laterally from the bracket and offset from the attaching portion thereof by a distance approximately the thickness of the screen or window element whereby to permit the insertion of a screen or storm window element thereunder, said spring trailing from the base portion at one end thereof and adapted to extend toward a screen or storm window element in the retaining frame for engagement therewith, the base portion of said spring at its other end being bent up to facilitate the insertion of a screen or window element thereunder.

2,587,903
OIL FILTER
Clarence J. Rood, Fergus Falls, Minn.
Application June 25, 1948, Serial No. 35,216
1 Claim. (Cl. 210—140)



In a filter a casing open at its upper end; a cover for the casing; a main bolt extending upwardly through the center of the casing and through the cover; means at the upper end of the bolt for sealably engaging the periphery of the cover against the casing; an inwardly directed annular ledge on the upper end of the casing; a cartridge having an out-turned flange at its upper end supported on said ledge and having an axial passage the wall of which is substantially spaced from and surrounds the main bolt, the wall of said passage being well spaced from the main bolt from end to end of the passage; a spring held under compression between the flange and the cover and urging the cartridge downwardly for sealing engagement of the flange and ledge; an annular seat formed on the cartridge at the lower end of said passage; an annular supporting bracket depending from the lower end of the cartridge and surrounding said seat; a resilient gasket surrounding the bolt and supported by the bracket in position below the seat, whereby upward pressure against said gasket will force the peripheral portion of the gasket into sealing engagement against the seat; and a spring of lesser strength than the first spring and interposed between the lower end of the cartridge and the bottom of the casing, said last mentioned spring being placed under compression by the downwardly urged cartridge to urge said gasket upwardly into sealing engagement against the seat when the cartridge is seated in the casing.

2,587,904
ESTERIFICATION OF MONOHYDRIC ETHER ALCOHOLS
Cornelius John Ryan, Tottenville, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 27, 1949, Serial No. 123,979
14 Claims. (Cl. 260—485)

14. The process of preparing esters from adipic acid and butoxyethanol which contains small amounts of a color producing peroxide which comprises mixing about 6,838 parts of butoxyethanol with about 1,441 parts of toluene, heating the same to from 90° C. to 95° C., adding about 4,000 parts of adipic acid to the mixture, continuing the heating and adding to the mixture 54 parts of an acid of phosphorus and 54 parts of ferrous sulfate, adding more toluene thereto and refluxing the mixture until the temperature increases to from 135° C. to 140° C., and thereafter separating and purifying the ester so formed.

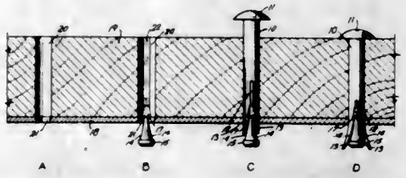
2,587,905
PROCESS FOR PRINTING TEXTILE FABRICS WITH VAT DYES
Arthur K. Saville, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 14, 1950, Serial No. 184,901
1 Claim. (Cl. 8—70)

A process for printing a textile fabric with a vat dye in a continuous manner comprising printing the vat color in a pigment form and in an aqueous dye paste, said paste containing 1.5% to 6% solids of the group consisting of sodium alginate, sodium carboxy methyl cellulose, and locust bean powder, drying, overprinting the entire fabric with a thickened aqueous solution containing 2% to 10% caustic alkali and 2% to 10% sodium hydrosulfite wherein the ratio of hydrosulfite to caustic alkali is between the limits of 0.5 to 3.0, and passing the fabric within 20 seconds from the time it is overprinted into an air-free steam chamber for a period between 5 seconds and 50 seconds to effect reduction and fixation of the printed dye on the fabric.

2,587,906
PREPARATION OF HYDROXY-CARBOXYLIC-ACIDS
Hans Schmidt, Wuppertal-Vohwinkel, Germany, assignor to Schenley Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 17, 1949, Serial No. 128,024. In Germany October 20, 1948
14 Claims. (Cl. 260—528)

1. In the process of oxidizing reducing sugars to yield the corresponding polyhydroxymonocarboxylic acids with one carbon atom less than the sugar employed with oxygen containing gases in an alkaline medium, the step which comprises adding to the solution of the sugar a compound selected from the group consisting of methylene blue and its analogs of the thiazine-, oxazine-, and phenazine-series.

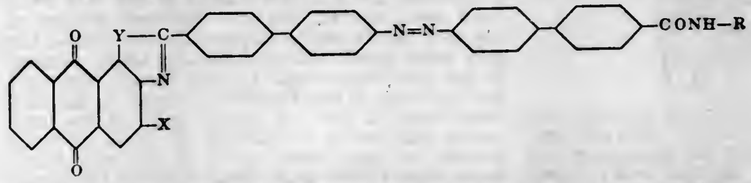
2,587,907
SELF-LOCKING DRIVE TYPE RIVET
John A. Schroeder, Andrew W. Bower, and Martin Graber, Denver, Colo.
Application June 30, 1949, Serial No. 102,392
1 Claim. (Cl. 85—26)



An expansion bolt for attaching a wooden deck to a metallic deck plate comprising: a bolt shank; a head on one extremity of said shank; two legs formed on the other extremity of said shank by splitting the latter; outwardly flared inner faces on said legs defining a wedge-shaped notch between said legs; the outer faces of said legs defining a cylinder; a wedge member positioned in said wedge-shaped notch; lugs projecting oppositely outward from said wedge member beyond the circumference of said shank; said lugs being positioned adjacent the upper extremity of said wedge member and adapted to contact the metallic deck plate; and a sharpened lower edge on each lug to facilitate driving the latter through said deck.

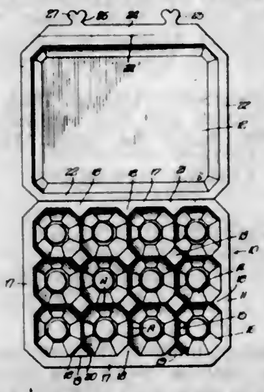
2,587,908
VAT DYES OF THE ANTHRAQUINONE-AZOLE SERIES
Herman E. Schroeder, Kennett Square, Pa., and Joseph Deinet, Glassboro, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 24, 1950, Serial No. 151,806
6 Claims. (Cl. 260—157)

1. The compounds of the formula:



in which Y stands for an element of the group consisting of —S— and —O—, X stands for a member of the group consisting of hydrogen, bromine and chlorine, and R stands for a vattable anthraquinonyl radical of the group consisting of an unsubstituted anthraquinonyl radical and the anthraquinonyl radicals carrying monovalent substituents of the group consisting of —Cl, —Br, methyl, methoxy, methyl-thiol, and benzoylamino radicals ortho to the —CONH— group, said anthraquinonyl radicals being attached to the —CONH group in the beta position.

2,587,909
MOLDED PULP EGG CARTON
Francis H. Sherman, deceased, late of Palmer, Mass., by Elizabeth M. Sherman, executrix, Palmer, Mass., assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application February 17, 1947, Serial No. 729,168
5 Claims. (Cl. 229—2.5)



1. A molded carton, comprising a bottom section having spaced upstanding walls intermediate the ends thereof dividing the carton into adjacent cells, said bottom section having a tab-receiving opening between said cells, a shoulder along the margin of said bottom section, a cover section secured to said bottom section, said cover section having a portion resting upon the shoulder on said bottom section, an extension on said cover section projecting outwardly from said portion, including a locking tab on the free side of said extension, said extension being bent over in encompassing relation around said bottom section margin and said tab being tucked through the opening into said bottom section between said cells.

2,587,910
T-TUBE FOR CONTROLLED INTUBATION AND DRAINAGE OF THE COMMON BILE DUCT
Alexander G. Shulman, Los Angeles, Calif.
Application December 23, 1949, Serial No. 134,775
11 Claims. (Cl. 128—2)

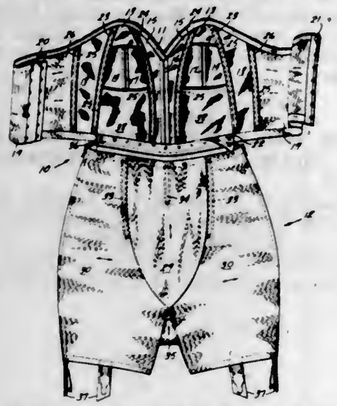
6. A device of the character described for alimentation and control of drainage through the common bile duct, comprising: a pair of tubes in end-to-end relation; means opposing direct flow between the adjacently disposed ends of said tubes; means defining a plurality of lateral trunk flow passages respectively connecting at one set

of their ends with the interior of said pair of tubes at the adjacently disposed ends; a flow connection between the other set of ends of said trunk flow passages; and a transparent window for viewing material flowing tnrough a trunk flow passage.

2,587,911
FOUNDATION GARMENT
Frances Sider, New York, N. Y.
Application October 4, 1951, Serial No. 249,745
4 Claims. (Cl. 2—39)

1. In a foundation garment, the combination of a brassière and a girdle, the lower front edge of the brassière being secured to the upper front edge of the girdle, the lower rear edge of the brassière being free with respect to the upper rear edge of the girdle, said brassière comprising front panels having breast pockets, side panels and back bands, the free ends of the back bands being detachably connected together, resilient spirals extending along the side edge portions of the front panels and around the outer side edges of the breast pockets, said girdle comprising a front central panel that extends downwardly from the upper front edge of the girdle, opposed front panels connected to the respective side edges of the front central panel, a rear central panel extending downwardly from the upper rear edge of the girdle, opposed rear panels connected

at their inner side edges to the respective side edges of the rear central panel, the outer side edges of the opposed front panels being connected to the outer side edges of the respective opposed rear panels along the lower side edge portions thereof, the upper outer side edge por-



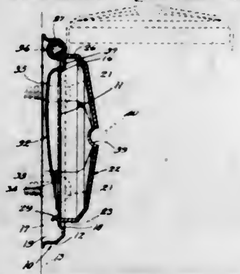
tions of the front and rear panels at each side of the girdle being open, coacting separable fastening means extending along the open outer side edges of said panels, said opposed front panels being formed with pockets that extend adjacent the separable fastening means, and resilient spirals arranged in said pockets.

2,587,912

HINGED FIXTURE SUPPORTING BRACKET

Paul F. Simpson, Washington, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut

Application November 30, 1946, Serial No. 713,360
16 Claims. (Cl. 248—223)



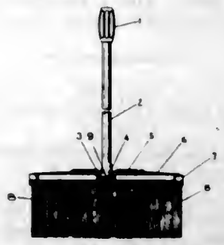
6. A device of the class described comprising a fixed plate for securement to a supporting surface and having apertures to receive means for effecting such securement, a cover plate hinged to said fixed plate and adapted to be brought into position for concealing said means or to be swung out of said position for access to said fixed plate, said cover plate having an arcuate projection and said fixed plate having a cavity at the rear thereof and an aperture through its principal plane opening into said cavity and through which aperture said projection extends, a leaf spring affixed at one end to said fixed plate and having an arcuate free end to coincide substantially with said projection whereby said cover plate may be swung relatively to said fixed plate and when closed maintained non-vibratingly with respect to said fixed plate, and latching means common to said plates for locking said cover plate in concealing position, said arcuate projection, said aperture and said arcuate free end coacting to form the hinged connection between said plates.

2,587,913

DETACHABLE DUST MOP CONSTRUCTION

Edward A. Smith, Lansing, Mich.

Application January 3, 1951, Serial No. 204,170
1 Claim. (Cl. 15—147)



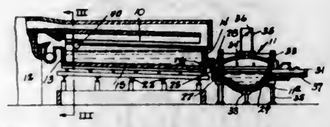
A mop comprising a tubular handle, a tubular cross head, one end of the said handle having a flattened portion, the middle of the said cross head being slotted, the said flattened portion of the said handle being disposed in the slot of the said cross head, the said handle being secured to the said cross head by bolt means, the said handle being at right angle in respect to the said cross head, a pair of swabs, each of the said swabs comprising a plurality of fillers disposed parallel to each other, each of the said fillers being folded over upon itself, each of the swabs having an upper fabric strip, a pair of fabric binders, the said upper fabric strip being disposed transversely and over the middle of each of the said plurality of fillers, the said fabric binders being disposed transversely and opposed along the middle of each of the said plurality of fillers, the said fabric strip being secured to one of the said binders and forming a cylindrical member thereover, a pair of end caps, a pair of coil springs, a pair of retaining hooks, the said swabs being slidably secured to the said cross head by inserting the cross head through the cylindrical portion of the said upper fabric strip, the said caps being slidably secured to each end of the said cross head, the said springs being secured at one of their ends to the lower portion of the said handle, and the other ends being secured to the said retaining hook, and the said hooks being secured to the said caps.

2,587,914

METHOD OF MAKING GLASS

William John Smith, Point Piper, New South Wales, Australia, assignor to Industrial Developments Limited, Singapore, a corporation of Singapore

Original application October 9, 1943, Serial No. 505,694. Divided and this application February 7, 1948, Serial No. 6,961. In Australia November 12, 1942
4 Claims. (Cl. 49—77)



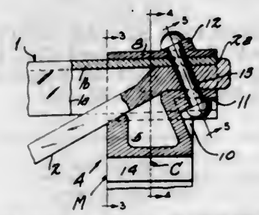
1. A method of making glass which comprises melting glass making batch into the form of a primary molten glass bath substantially filling a melting chamber while substantially continuously feeding glass batch to the glass bath, flowing molten glass from the bottom of the primary glass bath into a working chamber during a predetermined period of operation while also maintaining continuous feeding of the batch to the bath, maintaining the flow of molten glass from the primary bath into the working chamber at said predetermined period of operation at a rate greater during such period than the rate of continuous feeding of the glass batch to the primary bath and thereby progressively lowering the level of the primary bath.

2,587,915

RAILWAY BRAKE BEAM

Irvin J. Spaeth, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois

Application May 15, 1946, Serial No. 669,855
16 Claims. (Cl. 188—223.1)



1. In a railway truss type brake beam, a compression member and a tension member with their end portions converging, a brake head mounted on and surrounding said end portions transversely of the beam, and a securing device extending in the general plane of the beam through the head and the beam members diagonally of the center line of thrust of the head and positioned wholly between said line and adjacent end of the beam.

2,587,916

HEAT DETECTING CABLE

Donald R. Squier, Pompton Plains, N. J., assignor to Specialties Development Corporation, Belleville, N. J., a corporation of New Jersey

Application September 14, 1949, Serial No. 115,594
8 Claims. (Cl. 201—63)



1. A heat or flame detecting cable of indefinite continuous length responsive to abnormal temperature conditions at any location adjacently along its length, comprising a pair of electrically conductive elements adjacently disposed along the length of the cable, and a fiber glass composition separating said elements from each other, said glass composition containing an oxide selected from the group consisting of barium oxide and boron oxide and being characterized in that it can withstand temperatures in the neighborhood of about 2000° F. and that it is non-conductive at normal temperatures and is rendered conductive at abnormal temperatures.

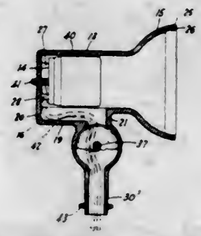
2,587,917

PIVOTED FLOODLIGHT WITH WATERTIGHT PASSAGEWAY FOR WIRING

Philip G. Stone, New York, N. Y., assignor to Stone Manufacturing Co., Elizabeth, N. J.

Application September 26, 1947, Serial No. 776,355
7 Claims. (Cl. 240—3)

1. In a floodlight lamp construction comprising a tubular body having an end wall and an outwardly flared open end opposite from said end wall, said end wall having perforations therein and having projections thereon extending forwardly within said body whereby a lamp bulb socket may be bolted against said projections within said body, said flared open end terminating in an annular recess receiving a yieldable gasket adhesively secured therein whereby a bulbous lamp bulb may impinge against the yieldable gasket to form a sealed joint, said body having a channel integral therewith depending therefrom and having its open side in direct communication with the interior of said body, said channel



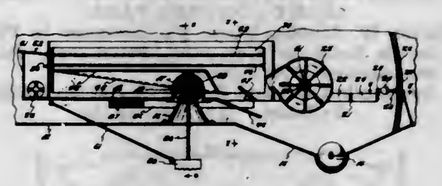
having an opening in its bottom portion along one end thereof, said channel having a depending wall integral therewith defining a continuation of said opening, said depending wall defining an outwardly concaved portion, forming a coplanar circular seat portion, said circular seat portion being adapted to cooperate with a complemental circular seat portion adapted to form a sealed joint when secured thereto by suitable fastening means, said channel and its openings, plus said concave portion providing ample space to receive electrically insulated conductors attachable to said lamp bulb socket.

2,587,918

SCREEN LEVELING DEVICE FOR HARVESTERS

William L. Stout, Clarkston, Wash.

Application May 18, 1948, Serial No. 27,693
2 Claims. (Cl. 209—416)



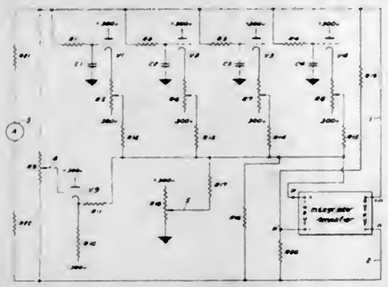
1. In a harvester, a pedestal, a ball on the pedestal, a screening unit suspended on the ball for universal movement, said unit including a vibrating screen, a housing therefor, and a fan adjacent to the housing operable to blow air through said screen, weight means connected with the support below the ball for holding the housing level, and means for preventing horizontal turning movement of the unit on the ball, said means comprising a bar fixed to the screening unit, a guide fixed on the housing and curved about the center of the ball as an axis, a member slidably mounted by said guide and a ball and socket joint connecting the bar to said member.

2,587,919

ELECTRICAL APPARATUS FOR SIMULATING THE TIME DEPENDENT RESPONSE CHARACTERISTIC OF NEUTRONIC REACTORS

Henry A. Straus, Baltimore, Md., and Persa R. Bell, Jr., and Forrest H. Murray, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission

Application November 28, 1949, Serial No. 129,719
7 Claims. (Cl. 235—61)



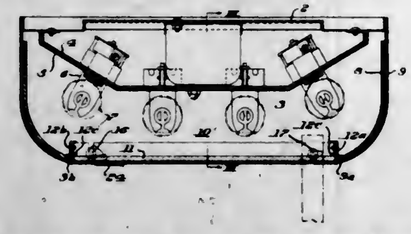
1. An electrical neutronic reactor simulator comprising a high gain integrator amplifier having an input signal and an output signal, said output signal being representative of the neutron density of a neutronic reactor, and means responsive to said amplifier output signal for generating said amplifier input signal, said last-named means including potentiometer means connected across said output signal for generating a first component signal proportional to the product of the neutron density and the reactivity of said reactor, at least one series resistance-capacitance circuit connected to said output signal for generating a second component signal proportional to the density of delayed neutron emitters of a given type, means also connected to said output signal for generating a third component signal proportional to the neutron density and having a polarity opposite to that of said second component signal, and means for additively combining said three component signals to obtain said amplifier input signal.

2,587,920

LIGHTING FIXTURE WITH DETACHABLE LIGHT CONTROL PANEL

Walter W. Stubbs, Irwin, Pa., assignor to Pittsburgh Reflector Company, Pittsburgh, Pa., a corporation of New Jersey

Application January 8, 1949, Serial No. 69,866
5 Claims. (Cl. 240—51.11)



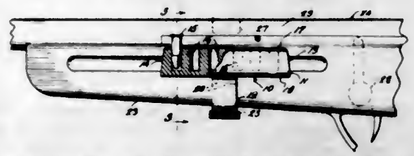
1. In a lighting fixture having an elongated base with transverse end members extending downwardly therefrom, a source of illumination carried by the base, an enclosure having a longitudinal opening below the source of illumination and extending substantially the full length of the fixture, and a light control panel located in said opening, means for detachably supporting said panel comprising two pins secured to and extending inwardly from and spaced transversely of each of said end members, a panel frame including vertical end flanges, each flange having upper and lower edges and being provided with a slot opening upwardly through the upper edge thereof, and a slot opening downwardly through the lower edge thereof for receiving said pins, and latches mounted on said panel frame, said latches each having a member adapted on movement of the latch to extend rigidly across the upwardly opening slots above the pins when they are in position in the slots, said members also engaging at least the upper surface of the pins when the panel is in position.

2,587,921

SHELL HOLDER FOR SINGLE SHOT RIFLES

Chester C. Suite, Hartford City, Ind.

Application December 10, 1948, Serial No. 64,570
1 Claim. (Cl. 42—71)



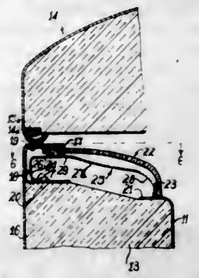
A cartridge holder for firearms wherein the firearm has a stock formed with a vertical opening in the bottom portion thereof, said holder comprising a U-shaped portion, a relatively long horizontally extending lower leg, and a relatively short horizontally extending upper leg, a securing element comprising a shank threadably mounted in said opening and a head at the lower end of said shank, said lower leg being bifurcated at its outer end for receiving therein said shank, said head being adapted to clamp said lower leg to said stock, and an elongated body secured to said upper leg and adapted to lie against one side of said stock when in operative position, said body having a plurality of spaced openings extending downwardly from the top surface thereof to receive cartridges therein.

2,587,922

BREAKER STRIP CONSTRUCTION

Charles E. Sulcek, Evansville, Ind., assignor to International Harvester Company, a corporation of New Jersey

Application April 7, 1949, Serial No. 86,103
2 Claims. (Cl. 220—9)



2. In refrigerator cabinet construction, the combination of inner and outer shells having heat insulation therebetween and provided with a door opening, said shells having edge portions bent inwardly toward each other and disposed

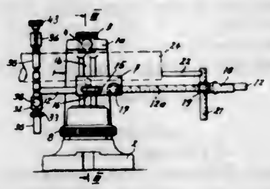
in different planes and spaced apart peripherally of the door opening, a member spaced from one of said edge portions and parallel therewith forming a channel opening outwardly toward the other shell, a heat-break member provided with an inwardly turned flange along one edge and an inwardly directed rib-like projection extending parallel to and proximate the opposite edge thereof, said heat-break member being adapted to bridge the space between the shells with one edge of said member extending into said channel while the opposite edge thereof seats on the inturned edge portion of the other shell, detachable resilient means fashioned as an integral member with an inwardly bent end portion, an intermediate and substantially flat portion, an opposite end portion having a large radius curve therein and an outwardly directed lip proximate said first end portion, said member being further fashioned so that the overall distance from said lip to the exposed end of the large curved end portion thereof is greater when said member is non-compressed than the minimum spacing between the rib-like projection and the inturned flange of said heat-break member, and having a portion of said resilient means adapted for positioning in said channel so as to urge one edge of said heat-break member against one inner face of said channel while at the same time the projecting lip on said means is brought into contact with the rib-like projection on the heat-break member and the opposite end of said means is forcibly positioned against the inner surface of the inwardly turned flange of said heat-break member whereby the said flanged edge is urged to seat in close fitting relationship with the inturned edge of the other shell.

2,587,923

DRILLING DEVICE

Adolf Sulger, Kilchberg, Switzerland

Application December 9, 1946, Serial No. 714,975
In Switzerland December 15, 1945
3 Claims. (Cl. 77—62)



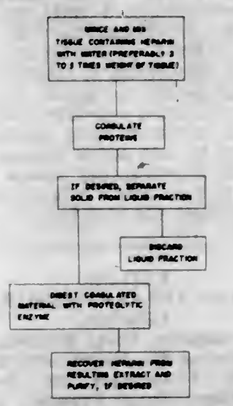
1. In a drilling jig of the character described, the improvement comprising: a pair of parallel bars mounted for simultaneous movement transverse to and along opposite sides of the drilling axis; a pair of horizontally disposed cross pieces vertically spaced apart so as to form therebetween a clamp for a horizontally disposed workpiece, one of said cross pieces having vertical apertures through its opposite ends and being connected to said bars; a pair of vertically disposed supports connected to the other of said cross pieces and jointly axially displaceable through the said apertures in said other cross piece, said supports being provided with axially spaced rests; and horizontally movable retaining means associated with said apertured crosspiece for engaging successive rests of the vertical supports so as to accommodate workpieces of different thickness within said clamp.

2,587,924

METHODS OF PRODUCING HEPARIN

Edith M. Taylor and Peter J. Moloney, Toronto, Ontario, Canada, assignors to The Governors of The University of Toronto, Toronto, Ontario, Canada

Application May 27, 1948, Serial No. 29,670
10 Claims. (Cl. 167—74)



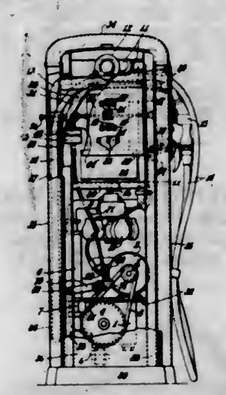
1. The method of producing heparin which comprises coagulating by heat the major portion of the proteins of a tissue of a mammal containing heparin, digesting the resulting coagulated material with a proteolytic enzyme until at least the major portion of the protein is digested, and recovering the heparin from the resulting mixture.

2,587,925

POWER-OPERATED REGISTER RESETTING MECHANISM FOR GASOLINE DISPENSING PUMPS

Cecil A. P. Thomas, West Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts

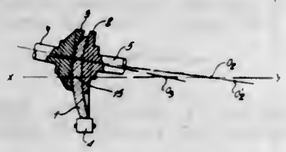
Application January 12, 1949, Serial No. 70,468
4 Claims. (Cl. 222—34)



1. In a liquid measuring and dispensing apparatus of the type having a dispensing conduit, a meter interposed in the conduit for measuring the liquid dispensed, a pump for forcing liquid through the conduit and meter, a motor for driving the pump, a control member for the motor movable from one position in which the motor is stopped to another position in which the motor operates, a register driven by the meter for indicating the amount of liquid dispensed and hav-

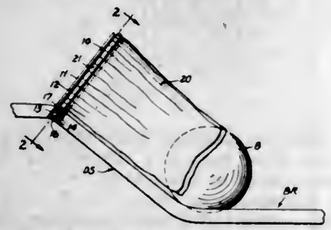
ing a resetting shaft, an interlock between the control member and resetting shaft for holding the latter stationary while the control member is in its second-named position and for releasing the shaft when the control member is in its first-named position; a power means for actuating said shaft, releasable means operable independently of said interlock for restraining said power means from actuating said shaft, means for storing power in said power means while the latter is restrained by said restraining means, said power-storing means comprising a rotary transmission from the pump-driving motor to the power means and including a slip-type clutch operable to slip after a predetermined amount of power has been stored in said power means, and means for releasing said restraining means to allow the power means to turn said shaft while said motor is stopped and reset the register.

2,587,926
PROCESS AND APPARATUS FOR MAKING LENSES
Robert R. G. Touvay, Paris, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France
Application July 31, 1947, Serial No. 765,147
In France November 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 27, 1965
27 Claims. (Cl. 51—117)



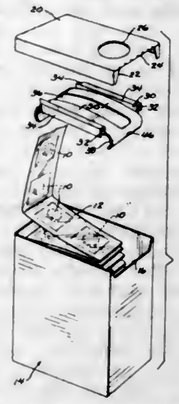
5. Lens making apparatus including means to hold a lens blank for rotation true to an axis penetrating the blank comprising pivotally mounted rollers movable into support of the rotatable lens blank, working tools rotatable in the same direction mounted to engage opposed sides of the blank simultaneously, having axes fixed during grinding extending eccentrically through the blank to intersect the extended axis of the blank on one side thereof, and means to rotate the said tools in the same direction in engagement with opposite sides of the blank.

2,587,927
BOWLING BALL CLEANER
Emil Tschudy, Beverly Hills Village, Mo.
Application January 16, 1950, Serial No. 138,798
6 Claims. (Cl. 273—47)



1. In a bowling ball cleaner for use as an attachment to a ball return, a rigid arcuate element attached to the return and defining therewith a ball-receiving opening, a flexible ball-cleaning element extended from the rigid element along and in overlying relation to the return, a hem in one end of the ball cleaning element, a contractile spring extended through the hem of the ball cleaning element and detachably connected at least by one of its ends, to an anchorage adjacent the ball return, the spring and hem of the cleaning element being normally located in embracing relation to the rigid arcuate element.

2,587,928
CONTINUOUS STRIP DISPENSER
Raymond G. Tuck, Pontiac, and Carl E. Fisher, Royal Oak, Mich.
Application November 22, 1949, Serial No. 128,702
5 Claims. (Cl. 312—39)

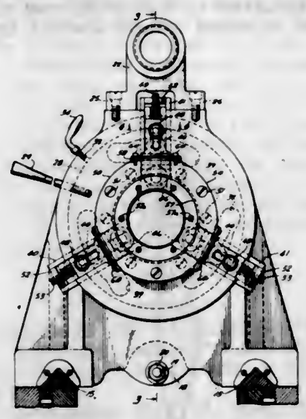


1. A medical dispensing device in combination with a plurality of medical pills or capsules carried by a continuous, narrow strip of pliable material comprising a container having one open end forming a storage chamber for a plurality of layers of said pliable material, a dispensing aperture adjacent the open end of said container, a cover member for the open end of the container, clamping means adjacent the open end of the container near said aperture to hold said strip against said cover when in position, said clamping means consisting of a shelf supported by the edges of the container and a bowed resilient means overlying said shelf projecting toward said cover.

2,587,929
STEADY REST
Levi D. Tyson, Elkhart, Ind., assignor, by mesne assignments, to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin
Continuation of application Serial No. 500,801, September 1, 1943. This application August 19, 1946, Serial No. 691,611
7 Claims. (Cl. 82—39)

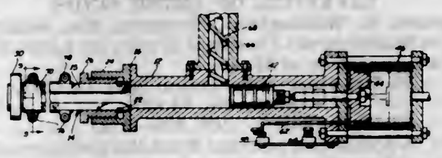
1. A steady rest for use with lathes and the like, comprising a generally circular body member having a base adapted to be mounted for longitudinal movement on the bed of the lathe with said body member axially aligned with the lathe spindle, a ring member carried by said body member coaxial therewith and disposed for limited rotation relative thereto, a plurality of radially movable steady rest jaws mounted in slideways on said body member and having rollers at their inner ends for engaging a workpiece rotatably carried by the lathe spindle, cam means interlocking said ring member and jaws to effect movement of the latter radially inward when said ring is moved circumferentially in one direction and radially outward when said ring

is moved circumferentially in the opposite direction, and a closure member on the face of said body member adapted to seal against the rotary



workpiece around the circumference thereof and protect the working parts of the steady rest against injury from chips.

2,587,930
METHOD OF AND APPARATUS FOR EXTRUDING
Curt Uschmann, Lebanon, Oreg., assignor to Cascades Plywood Corporation, Portland, Oreg., a corporation of Delaware
Application July 30, 1947, Serial No. 764,637
10 Claims. (Cl. 18—12)



1. Apparatus for manufacturing an extruded elongated synthetic lumber product of a compressed mixture of woody fibers and heat-activated binder, comprising a compression cylinder, an extrusion die mounted at the forward end of said cylinder and having a die chamber opening into said cylinder and extending lengthwise therefrom, a reciprocable piston coacting with said cylinder internally thereof, single-acting piston drive means operatively connected to said piston and operable to effect movement thereof only from a rearward position to a forward limit position spaced lengthwise of said cylinder from such rearward position, a mixture-feed conveyor tube branching from said cylinder at a point forwardly of said forward limit position movement, and conveyor means coacting with said tube and operable to press the mixture in said tube toward and into said cylinder with such force as to refill said cylinder with mixture following the forward stroke of said piston and thereby force said piston back to its rearward position.

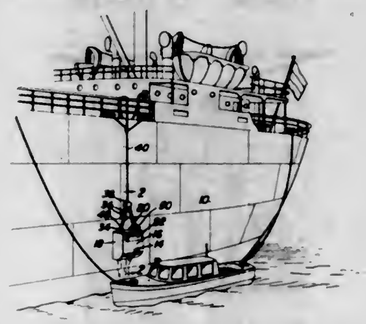
2,587,931
BRAKE ADJUSTER
Wien A. Van Der Wilt, Glendale, Calif.
Application August 9, 1948, Serial No. 43,205
5 Claims. (Cl. 188—79.5)

1. In a hydraulic brake mechanism; a pressure cylinder, brake setting pistons working in the opposite ends of the cylinder and each having a reduced diameter end, clutch rings having limited sliding motion on the reduced end of the said pistons and having pitched take-up facets



and clutch balls thereon, and spring means engaging and constantly thrusting the clutch balls toward effective binding position in the cylinder bore.

2,587,932
OVERBOARD DISCHARGE CHUTE
James Dennis Vining, New Orleans, La.
Application July 25, 1950, Serial No. 175,710
2 Claims. (Cl. 114—221)

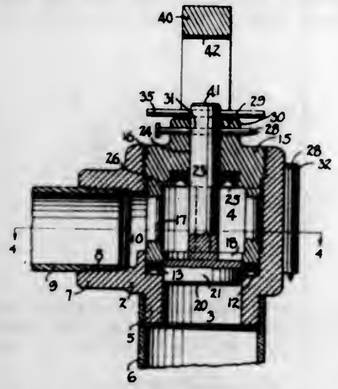


1. An overboard discharge chute comprising a casing open at the rear and the bottom thereof adapted to overlie a discharge outlet extending through the skin of a ship, means to suspend said casing overlying the discharge outlet, and magnetic means carried by said casing for urging said casing towards the skin of the ship, said magnetic means including a U-shaped core having a pair of substantially parallel legs and a central connecting portion, said legs extending through said casing, said central connecting portion overlying a portion of the front wall of said casing, and coils for inducing magnetic flux in said core carried by said legs.

2,587,933
SHEAR RELIEF VALVE
Alexander S. Volpin, Houston, Tex.
Application July 1, 1946, Serial No. 680,750
3 Claims. (Cl. 137—53)

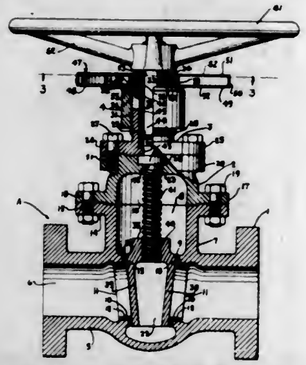
2. A stop plug and cage for the body of shear relief valves comprising a plug, a cage extending therefrom having an open end, an opening through said plug, a plunger slidable in said cage, and closing said open end, a stem on said plunger slidable in said opening, shear means on said plug etxending through said stem to retain the plunger in closed position and a stop bridge

projecting exteriorly on said plug in the line of movement of said stem to limit the movement



of and enclose said stem upon shearing of said means.

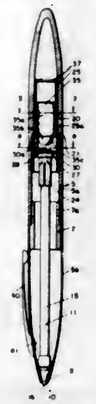
2,587,934
VALVE INDICATOR
Alexander S. Volpin, Houston, Tex.
Application September 15, 1947, Serial No. 773,984
2 Claims. (Cl. 116—125)



1. An indicating device comprising a perforated housing adapted for rigid connection to the exterior of the bonnet of a valve body through which bonnet the valve stem passes, and a substantially flat, coiled spring in said housing and visible through the perforations and adapted for rigid association at its outer end with said housing, and with its inner end adapted to be fixed to the valve stem so that the valve stem rotation which actuates the valve element to open and close the valve also varies the number of uncoiled spring convolutions and the perceptible distances between said convolutions to indicate the degree of valve opening or closure.

2,587,935
RETRACTABLE PEN DEVICE
Frank C. Wallace, North Hollywood, Calif.
Application January 10, 1949, Serial No. 70,011
8 Claims. (Cl. 120—42.03)

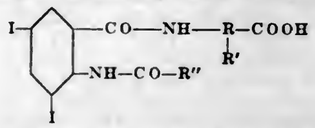
1. A pen device comprising a barrel open at its outer end, an elongated writing element mounted in the barrel to move axially by gravity through said open outer end, means limiting axial movement of the writing element relative to the barrel, said barrel having an interior outwardly facing shoulder between its ends, an arm carried by the inner end of the writing element, said arm being laterally offset from the axis of the writing element and projecting therefrom in a direction towards the inner end of the barrel, a weight member mounted in the inner end portion of the barrel to move axially thereof by gravity,



said weight member having a reduced outer end portion engageable against the arm to urge the arm against the inner surface of the barrel at a point outwardly from the shoulder when the outer end of the barrel is pointed downwardly, and being disengageable therefrom in response to pointing the outer end of the barrel upwardly.

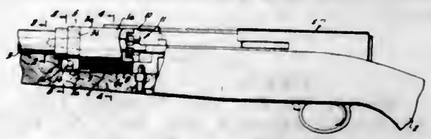
2,587,936
IODINATED 2-ACYLAMINO BENZOYL DERIVATIVES OF AMINO ACIDS
Vernon H. Wallingford, Ferguson, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application May 23, 1949, Serial No. 94,929
9 Claims. (Cl. 260—518)

1. A compound selected from the group consisting of compounds having the formula:



where R is selected from the group consisting of methylene and lower polymethylene radicals, R' is selected from the group consisting of phenyl, carboxy lower alkyl and hydroxy lower alkyl radicals, and hydrogen, and R'' is selected from the group consisting of alkyl and phenyl radicals, and the non-toxic salts thereof.

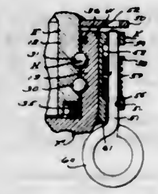
2,587,937
BARREL CONSTRUCTION FOR FIREARMS
Edwin H. Waltke, Jr., Los Angeles, Calif.
Application April 30, 1948, Serial No. 24,280
8 Claims. (Cl. 42—75)



1. A barrel construction for firearms, comprising a forward extension of the wall of the bore,

and having a portion extending forwardly of the bored portion with the inner side thereof forming a forward extension of the wall of the bore, said extension being provided with a longitudinal slot, a barrel mounted for axial reciprocable movement on the frame, the rear end of the barrel slidably fitting the wall of the bore, the barrel having a detachable downward projection forwardly of the rear end and slidably extending into said slot, said extension having at the forward end of the slot therein a rigid portion extending transversely of the axis of the barrel, the projection having a slot in its forward end parallel with said axis for slidably receiving said rigid portion so as to maintain the barrel in axial alignment with the frame and to limit forward movement of the barrel.

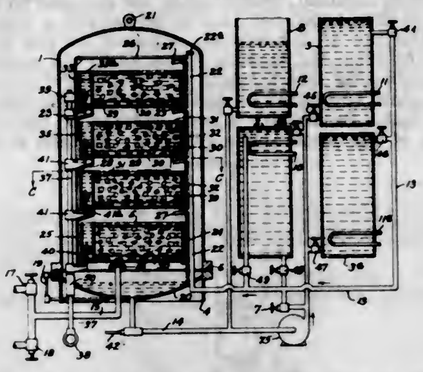
2,587,938
ADJUSTABLE FLUID HANDLING CONDUIT
Doyle C. Warren, Altadena, Calif., assignor to Chiksan Company, Brea, Calif., a corporation of California
Original application May 11, 1948, Serial No. 26,265. Divided and this application October 11, 1949, Serial No. 120,633
2 Claims. (Cl. 285—97.1)



1. In combination two tubular sections, means rotatably coupling the sections, and lock means engageable to hold the sections against relative rotation including, a lock flange fixed on and projecting radially from one section, a lock pin, spaced lugs fixed on and projecting from the exterior of the other section and carrying the pin for rotation and reciprocation, and a spring normally yieldingly urging the pin into engagement with the flange, the pin having a handle projecting therefrom and movable into and out of engagement with said other section by rotation of the pin to hold the pin retracted from the flange.

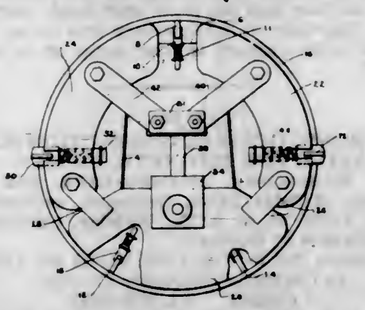
2,587,939
FOOD PROCESSING APPARATUS
Wells Alan Webb, San Jose, Calif.
Original application April 17, 1942, Serial No. 439,384. Divided and this application August 6, 1947, Serial No. 766,509
4 Claims. (Cl. 99—239)

1. In dehydrating apparatus having a closed vessel provided with a first valved outlet in the bottom for draining liquid therefrom when the outlet is open and a second valved outlet for connection with air evacuating means for creating a partial vacuum within said vessel when the said first valved outlet is closed; means for removably supporting a plurality of receptacles within said vessel, a plurality of receptacles having open upper sides respectively adapted to be substantially filled with liquid supported on said means, a conduit for hot liquid communicating with each of said receptacles for simultaneously supplying said liquid to the latter to a predetermined level in each receptacle, a screen releasably secured within each receptacle above the bottom thereof positioned for holding material within each receptacle below said level, and each



of said receptacles being provided with a drain opening for draining liquid therefrom.

2,587,940
PIPE CLAMP
Glen B. Webster, Bartlesville, Okla.
Application December 4, 1947, Serial No. 789,742
3 Claims. (Cl. 113—103)

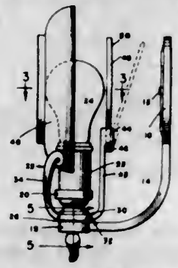


1. In a pipe clamp for aligning the ends of pipe sections to be welded, and comprising a body member having a clamping ring, said ring comprising a stationary clamping member and a pair of movable clamping members having longitudinally spaced clamping surfaces adapted to engage the inner periphery adjacent the meeting ends of adjoining pipe sections, means for moving the clamping members into and out of engagement with the pipe sections, a latch pin provided in each of the movable clamping members and arranged in diametrically opposed relationship to each other, spring means normally urging said latch pins outwardly, said latch pins automatically adapted to contact the ends of the pipe sections to provide an alignment thereof prior to a clamping engagement of the clamping ring, said latch pins having a curved flange portion adapted to receive the oncoming pipe section thereupon to cause movement of the latch pin out of contact with the ends of the pipe sections.

2,587,941
WALL LAMP WITH ROTATABLE SHADE AND MIRROR
Arthur E. Wiedenhoeft, Glen Ellyn, Ill.
Application June 7, 1948, Serial No. 31,419
2 Claims. (Cl. 240—4.2)

1. In a make-up light, an electric lamp, a socket for the lamp, a supporting stem for the socket, a fixed support into which the stem is

inserted, a shouldered collar mounted upon the fixed support and surrounding the stem, a bracket rotatably mounted on the shouldered collar to turn about the axis of the socket, a washer at the top of the bracket engaged by the lamp socket when the stem is threaded in the support but allowing free rotation of the bracket, a mirror plate supported by the bracket at one side of the lamp having its mirror surface at the outside of the plate and a reflecting surface at the



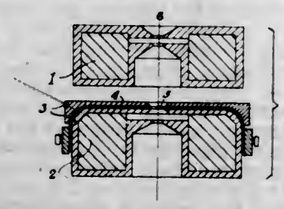
inside of the plate relative to the lamp, and a shade also rotatably supported by the bracket at the side of the lamp opposite the plate, of larger dimensions and in line with the plate with an inner concave surface at the edges of the shade for deflecting light rays from the lamp over the edges of the plate to converge at the front of the mirror surface and the plate and shade being rotatable together to move either one in an outer position with respect to the lamp or a viewer thereof.

2,587,942

ELECTRONIC OPTICAL CORRECTION MECHANISM FOR MAGNETIC LENSES

Gustav Weissenberg, Marburg/Lahn, and Otto Sänger, Wetzlar/Lahn, Germany, assignors to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application October 20, 1950, Serial No. 191,216
In Germany December 27, 1949
7 Claims. (Cl. 313—84)



1. In an electronic correction device for magnetic lenses located in the path of the light rays of the optical system, the improvement comprising a plurality of laminae of ferromagnetic material adapted to form an iris diaphragm, a magnetic carrier having an opening, means for movably supporting said laminae on said carrier and means engaging said carrier and laminae for moving the laminae to form an iris diaphragm of selected size and shape across the opening in the magnetic carrier.

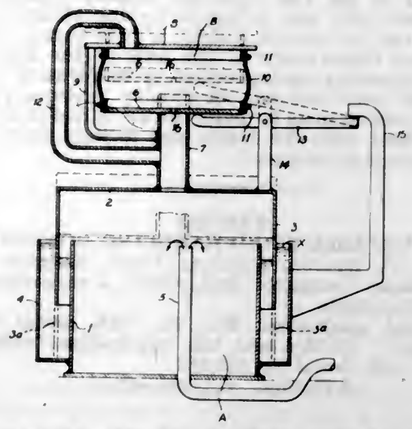
2,587,943

PRESSURE-VACUUM CONTROL VALVE

John H. Wiggins, Chicago, Ill.

Application April 19, 1948, Serial No. 22,013
4 Claims. (Cl. 220—85)

4. The combination of a fluid container, composed of a stationary tank that is adapted to hold fluid, a vertically-movable roof for said tank, a sealing means between said roof and tank, a vertically-disposed, tubular vent for said container mounted on said roof and provided with a valve seat, a control chamber carried by said roof, a fluid passageway between said container and the interior of said control chamber, said control chamber having a flexible side wall and a movable bottom wall that serves as a control



valve for said vent, a rock lever mounted on the vertically-movable roof of said container, and means rendered operative by upward movement of said roof beyond a certain approximate point for causing said lever to move the bottom wall of the control chamber into a position to open said vent so as to provide pressure relief for said container.

2,587,944

IMPACT TOOL

Charlie D. Williams, Pasadena, Calif.

Application May 22, 1948, Serial No. 28,642
1 Claim. (Cl. 1—47)



A device for driving nails comprising an elongated sleeve adjustable with respect to its length including a first elongated tube threaded externally at one end, a second tube threaded internally at one end and externally at the opposite end, the first tube being threaded into one end of the second tube and adjustable therein, a lock nut threaded onto the first tube and adapted to fix the relative positions of the first and second tubes, and an enlarged collar threaded on the opposite end of the second tube, a driving pin

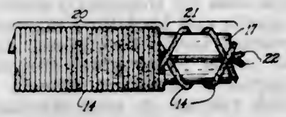
slideable in the tubes through the collar, a hand grip affixed to an end of the pin extending from the tubes, and resilient stop means disposed within the larger of said two tubes and adapted to prevent withdrawal of the pin therefrom.

2,587,945

FRICTION DISK AND METHOD OF MAKING SAME

Hans Wirth, Middletown, Conn., assignor to Connecticut Asbestos Products, Inc., New York, N. Y., a corporation of Connecticut

Application July 1, 1947, Serial No. 758,402
9 Claims. (Cl. 154—81)



3. A friction material comprising a set of longitudinal strands and a second set of strands helically wound around said longitudinal strands, said strands having been treated with thermosetting binder prior to the arrangement of said strands being placed in their respective longitudinal and helical positions, said set of longitudinal strands being completely surrounded by and contained within said set of helical strands, the combination of said longitudinal and helical strands having been subjected to pressure to form a flat unit.

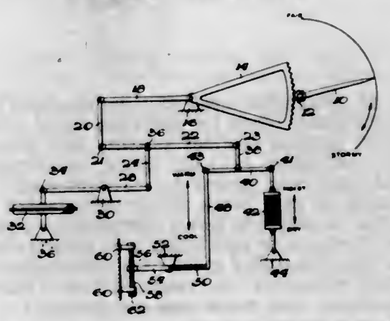
5. The method of making a friction material which comprises placing a plurality of impregnated fabric strands longitudinally upon a mandrel, helically winding impregnated fabric strands around said mandrel, removing said longitudinal and helically wound strands as a unit from said mandrel, and pressing said strands in the form of a flat hard unit.

2,587,946

METEOROLOGICAL APPARATUS

Louvan E. Wood, Baltimore, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware

Application October 17, 1946, Serial No. 703,918
5 Claims. (Cl. 73—170)



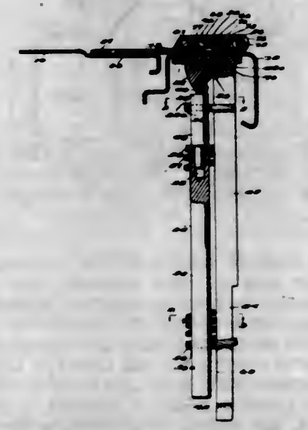
1. In apparatus responsive to changes in ambient atmospheric conditions, an arm, a first driving link pivotally connected at one extremity thereof to said arm intermediate its extremities, a second driving link pivotally connected at one extremity thereof to said arm at one extremity thereof, pressure responsive means, a first beam pivotally supported intermediate its extremities and having one extremity connected to said pressure responsive means and having the other extremity pivotally connected to the other extremity of said first driving link, relative humidity responsive means, temperature responsive means, a second beam pivotally connected intermediate its extremities to the other extremity of said second driving link and having one extremity pivotally connected to said relative humidity responsive means and having the other extremity pivotally connected to said temperature responsive means, and indicating means driven by said arm.

2,587,947

ARRANGEMENT FOR MAINTAINING A CLOSURE IN ANY OF A PLURALITY OF OPEN POSITIONS

Robert W. Wolf, Philadelphia, Pa.

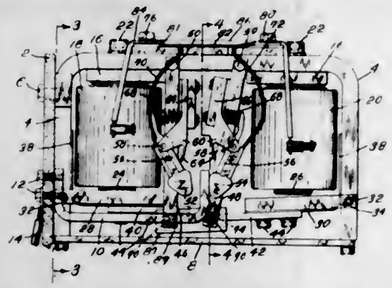
Application August 18, 1950, Serial No. 180,283
2 Claims. (Cl. 16—1)



2. A biasing arrangement in combination with a pair of hinged members, one of which members is a closure, for urging the closure member to open position and for defining a plurality of predetermined open positions for the closure member and between which positions said closure member is movable manually, said arrangement comprising frame structure attached to the other of said members, biasing means carried by said other member for urging the closure member away from said other member, said biasing means including a driving element carried by said frame structure, said driving element extending transversely of the closed position of said closure, a lower guide for said driving element, said guide being adjustably mounted on said frame member, a projection on the upper portion of said driving element, and a coil spring about said driving element and compressed between said projection and said lower guide so as to urge said driving element toward said closure, bias transmitting means receiving bias from said biasing means, said bias transmitting means comprising a bias transmitting element pivoted to said frame structure about a hinge axis spaced from the hinge axis of said closure member, a lower roller carried by said bias transmitting element, in engagement with the upper end of said driving element for receiving bias therefrom, bias receiving means carried by the closure member, and an upper roller carried by said bias transmitting means in engagement with said bias receiving means, said bias receiving means including a cam-like member having at least two teeth-like portions joined by a concave portion, said concave portion having a surface configuration complementary to that of said upper roller, the first of said teeth-like portions being more remote

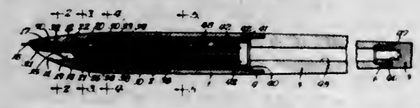
from the hinge axis of said closure member than the second of said teeth-like portions, said teeth-like portions cooperating with said upper roller to define predetermined open positions for said closure in which said closure is located at progressively greater angles with regard to said other member.

2,587,948
ELECTRIC SWITCH
James W. Woolf, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 30, 1949, Serial No. 113,154
11 Claims. (Cl. 200—98)



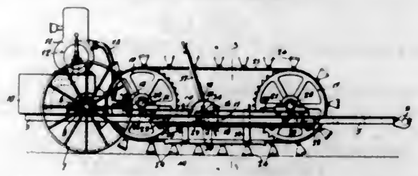
1. In an electric switch, a first contact, a second contact and a third contact, the contacts being mounted to provide relative movement of two of them with respect to the other whereby said first and second contacts are engaged to provide a desired electric circuit through the switch and alternatively said first and third contacts are engaged to provide another desired electric circuit through the switch, latch means for holding the contacts in a selected engagement, the latch means including three latch members, two electromagnets, a first armature for each of said two magnets, one of the three latch members being supported by one first armature and another of the three latch members being supported by the other first armature, and a second armature for each of said two magnets, the third latch member and the second and third contacts being supported by both of said second armatures.

2,587,949
FOUNTAIN PEN
Harlan H. Zodtner, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Original application March 3, 1947, Serial No. 731,951, now Patent No. 2,522,554, dated September 19, 1950. Divided and this application June 20, 1950, Serial No. 169,130
6 Claims. (Cl. 120—50)



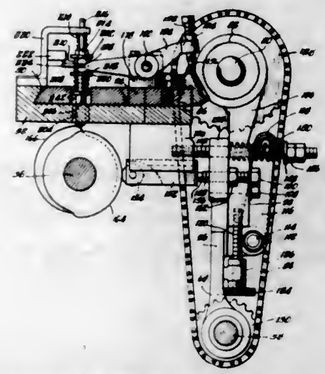
1. A fountain pen comprising a pen body, a writing element at the writing end of said body, a capillary filler-and-reservoir element in said body and including a plurality of annularly disposed wall elements spaced apart to provide a plurality of radially spaced capillary ink passages each of which extends substantially throughout the length of said filler-and-reservoir element, and ink feed means connecting said capillary passages with said writing element.

2,587,950
APPARATUS FOR THINNING PLANTS AND KILLING EXTRANEOUS VEGETATION
Alvin F. Aggen, Camarillo, Calif.
Application April 30, 1945, Serial No. 591,160
7 Claims. (Cl. 97—22)



1. An apparatus for thinning a continuous row of growing plants and for killing extraneous vegetation thereabout, comprising: a carriage adapted to be drawn along plant rows; spraying means on said carriage; sprocket wheels rotatively mounted with respect to said carriage; endless chains connecting said sprocket wheels; and spaced inverted cups mounted on said endless chains supporting said sprocket wheels and adapted to progressively co-act with the ground and progressively cover said plants as said carriage is drawn forward.

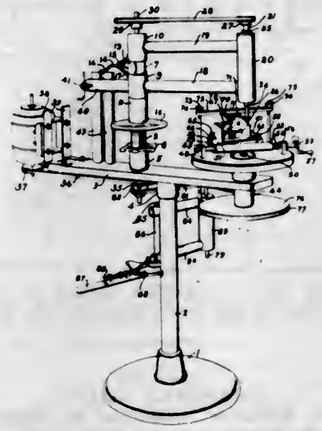
2,587,951
SCREW SLOTTER
William C. Anderson, Oak Park, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application June 26, 1946, Serial No. 679,401
6 Claims. (Cl. 10—2)



1. An automatic screw slotting machine having a reciprocable block for carrying screw elements, a screw slotting saw for slotting said screw elements mounted in said block, bilaterally resilient clamping means for clamping said screw elements in said block while being acted on by said saw, a source of screw elements for supplying screw elements to said block, and means connected to said clamping means for producing an indication whenever the clamping means moves too far because said block has not received a screw element from said source.

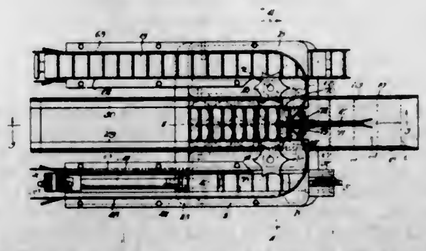
2,587,952
GRINDING MACHINE
Amedee D. Appleby, Odessa, Tex.
Application December 27, 1946, Serial No. 718,738
8 Claims. (Cl. 51—105)

1. In a vertical spindle grinding machine of the character described, the combination of a rotatable spindle having an abrading element mounted thereon, a power driven turntable associated with the abrading element and having a work-holder mounted on said turntable, said work holder including a jig adapted to receive work therein,



universal mounting means for mounting the jig on the table for shifting movement thereof to different angular positions relative thereto, and power means for driving said spindle and said turntable in coordinated relation.

2,587,953
BOTTLE LOADER
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application October 25, 1947, Serial No. 782,164
14 Claims. (Cl. 226—14)



14. A bottle loading mechanism comprising a base, a carton supporting platform positioned on said base, a bottle conveyor positioned on said base and having its upper run along the side of and above said platform, a star wheel positioned between said conveyor and said platform to move successive bottles from the upper run of the conveyor, and guide means cooperating with said star wheel for directing the bottles laterally as they are moved from the conveyor to a delivery position over said platform where they are free to drop into a container positioned thereon.

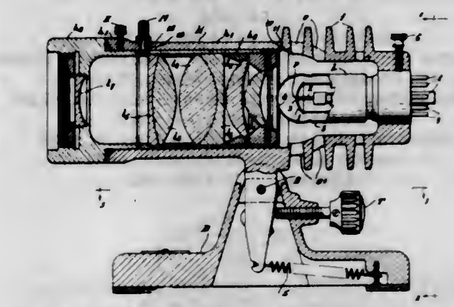
2,587,954
REFUSE PALM OIL REFINING
Vigen K. Babayan, West Englewood, N. J.
No Drawing. Application July 17, 1948, Serial No. 39,370
7 Claims. (Cl. 260—424)

1. A method for refining refuse palm oil which method comprises treating the refuse palm oil with from 1% to 5% by weight of the oil of an acid selected from the group consisting of phosphoric acid, sulfuric acid, and hydrochloric acid at a temperature of from 0° C. to 100° C., the treatment being effected in the presence of water in an amount at least equal to 50% of the weight of the oil being treated, allowing the batch to stratify and separating the oil layer from the aqueous layer, and thereafter bleaching the oil.

2,587,955
CORROSION PREVENTIVE COMPOSITION
Emmett Raymond Barnum, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 28, 1947, Serial No. 744,535
1 Claim. (Cl. 252—34)

A corrosion inhibiting composition comprising a major amount of a liquid hydrocarbon and a minor amount, sufficient to inhibit corrosion of an oxazoline salt of ricinoleic acid.

2,587,956
LIGHT PROJECTING APPARATUS
Roy Charles Bastien, St. Albans, N. Y., assignor to Fish-Schurman Corporation, New York, N. Y., a corporation of New York
Application May 28, 1948, Serial No. 29,739
3 Claims. (Cl. 240—2)



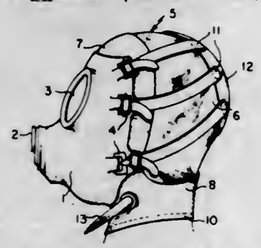
1. A light projection device for illuminating the sub-stage condenser of a microscope, said device comprising a light tunnel, a point source of light radiation of the concentrated-arc type of lamp located in one end of said tunnel at the center axis thereof to project a cone beam of radiation through the tunnel to the opposite end thereof and an optical means disposed in radiation intercepting position in said tunnel to project an enlarged image of said point source a determined distance away from the end of said tunnel at which is located the aperture of a sub-stage condenser of a microscope, said optical means consisting of a positive lens system disposed adjacent the said point source in first radiation intercepting position and a Galilean telescope lens system disposed adjacent the positive lens system in second radiation intercepting position, said positive lens system consisting of a plurality of positive lens elements disposed in determined spaced relation, the first said element being located at approximately fifteen millimeters away from the said point source of light radiation, the plurality of elements of said positive lens system in combination being optically designed to intercept a determined cone angle of radiation from said point source of light radiation and to convert same into a parallel ray beam having a diameter greater than the desired emergent parallel ray beam and to have an equivalent

focal length greater than the distance between the point source of light and the first optical surface of said system and the second said optical system having a plurality of positive and negative lens elements disposed in determined spaced relation and in determined spaced relation to the first said system, the plurality of elements of said second lens system being optically designed to convert the parallel ray beam from the first said system into an emergent parallel ray beam of a desired determined smaller diameter and to provide an equivalent focal length which is less than the distance between the point source of light radiation and the first optical surface of the first said lens system, the two said lens systems also being corrected for spherical and chromatic aberration and for coma.

2,587,957
INSECT REPELLENTS CONTAINING A CHLOROBUTYROAMIDE
Oscar W. Bauer and John W. Teter, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 10, 1945, Serial No. 610,189
1 Claim. (Cl. 167—22)

Insect repelling sheet material comprising a sheet material impregnated with a chlorobutyroamide.

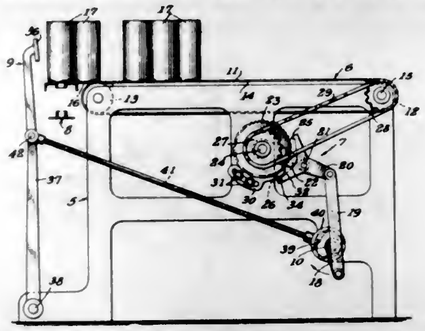
2,587,958
HOOD FOR DIVERS' SUITS
Angelo Belloni, Venice, Italy, assignor to Pirelli Societa Per Azioni, Milan, Italy
Application February 27, 1948, Serial No. 11,597
In Italy October 14, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires October 14, 1961
7 Claims. (Cl. 128—141)



5. A diver's mask comprising a rubber facepiece and elastic hood which covers the entire head and neck of the diver and maintains an elastic, water-tight seal around the neck, said hood being permanently attached to the facepiece by an elastic inner fold between the hood and face-piece.

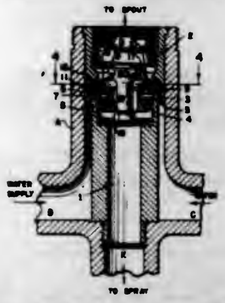
2,587,959
NONJAMMING CONVEYER MEANS
George M. Biner, Los Angeles, Calif., assignor to Biner-Siegrist Machinery Manufacturing Co., Los Angeles, Calif., a corporation of California
Application June 4, 1949, Serial No. 97,151
10 Claims. (Cl. 198—32)

1. Conveying means comprising an endless belt adapted to receive articles in haphazard fashion, means for advancing said belt a pre-determined distance and alternately retracting the same a lesser distance to intermittently move articles thereon toward the discharge end of said belt, a continuously moving single-file conveyor arranged transverse to said belt and receiving said articles, an article-stopping rail parallel to said conveyor, and means connecting said rail and the belt-



advancing and -retracting means to move said rail counter to the movement of the belt.

2,587,960
TRANSFER VALVE
Ralph E. Bletcher, Clarence H. Bentley, and Irving A. Ward, Los Angeles, Calif., assignors to Modern Faucet Mfg. Co., Los Angeles, Calif., a corporation of California
Application October 6, 1947, Serial No. 778,054
14 Claims. (Cl. 277—61)

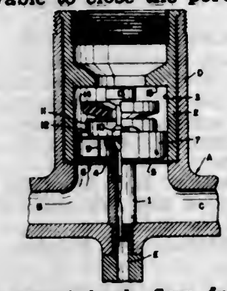


2. A transfer valve structure adapted for installation between a pair of confronting tubular members, their confronting ends defining an inlet and their remote ends opposed outlets, the combination of: a body structure mounted in fixed sealing engagement with said tubular members and defining a valve passage communicating with the outlets thereof, and an inlet port communicating between said valve passage and the inlet defined by said tubular members; a valve for controlling flow between said valve passage and one of said outlets; an actuator connected with said valve and disposed between said valve passage and the other of said outlets, said actuator being responsive to flow in said other outlet, to close said valve; and a back pressure valve between said valve passage and said inlet ports adapted to seal said inlet ports from both of said outlets when the pressure in said inlet ports is less than the pressure in said valve passage.

2,587,961
TRANSFER VALVE
Ralph E. Bletcher, Clarence H. Bentley, and Irving A. Ward, Los Angeles, Calif., assignors to Modern Faucet Mfg. Co., Los Angeles, Calif., a corporation of California
Application October 6, 1947, Serial No. 778,055
22 Claims. (Cl. 277—61)

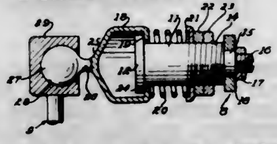
1. In a transfer valve adapted for installation within a body defining a valve chamber having a

spout outlet and a spray outlet in opposed relation, said spray outlet being within a tube, and an inlet to said chamber surrounding said tube, the combination of: a ported partition surrounding said tube and bridging said inlet; a check valve element movable to close the ports of said par-



tition and prevent back flow from said valve chamber into said inlet; a control valve for said spout outlet; and means attached to said control valve responsive to a lower pressure in said spray outlet than in said valve chamber for causing said control valve to close said spout outlet.

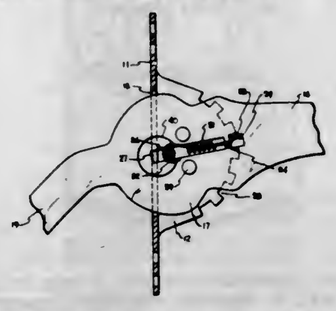
2,587,962
FLEXIBLE JOINT
Joseph A. Brazukas, Gary, Ind.
Application June 2, 1950, Serial No. 165,639
1 Claim. (Cl. 287—91)



In a flexible joint, a cylindrical shank having a lateral annular shoulder on one end thereof, a cylindrical cup having a closed end and an open end, said one end of the shank and its shoulder entering the open end of the cup and being positioned within the cup in relatively greatly axially spaced relation to the closed end of the cup whereby substantial endwise movement of the shank within the cup is provided for, an internal annular flange on the open end of the cup with whose axially inward side said annular shoulder is engageable whereby axially outward movement of the shank from the cup is prevented, the annular shoulder on the shank being sufficiently smaller in diameter than the interior of the cup to permit lateral swinging of the shank relative to the cup and its internal flange, a helical spring circumposed on said shank axially outwardly of the open end of the cup, retaining means on said shank spaced axially outwardly from the closed end of the cup and serving to compress said spring between itself and the open end of the cup whereby the annular shoulder on the shank is normally yieldably engaged with the internal flange on the open end of the cup with the shank in axial alignment with the cup.

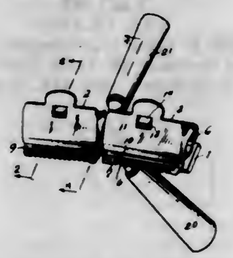
2,587,963
LEVER ADJUSTER FOR CASEMENT WINDOWS
Rex S. Brownie, Detroit, Mich., assignor to International Hardware Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 21, 1950, Serial No. 175,196
4 Claims. (Cl. 268—118)

1. A lever adjuster for a ventilator comprising a casing including an attaching plate adapted to be secured to a stationary window frame and having two semicircular parallel wings spaced relatively, said plate connecting said wings and having an opening, an adjusting lever between said wings having opposed ends, one of which ends is adapted to serve as a handle and the other of which projects through said opening and is adapted to be connected to the ventilator to be regulated, a pin passing through said wings and the center portion of said lever and providing in the casing a pivot for the lever and also serving to anchor the lever to the casing, the semicircular edge of one wing being toothed or notched



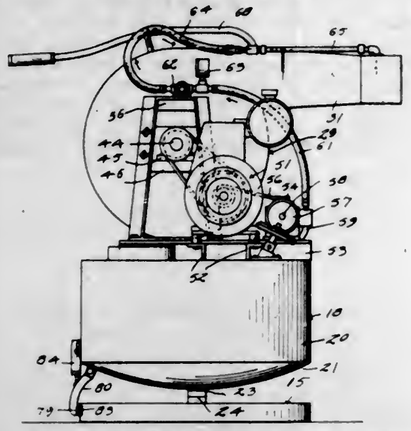
to provide an index rack, and the adjacent portion of the lever having a complementary tooth projected from the lever into the plane of the notched wing, and spring means connecting said pin and said lever to urge the lever to move in said casing in such a direction that its tooth tends to move towards said pin and into a notch of the casing wing when such tooth radially alines with a notch, the lever at its center having a slot through which said pin passes to enable the lever to move in a manner to permit its tooth to move to and from the index rack, the lever comprising a single unitary piece whose ends and center are integral.

2,587,964
HAIRCUTTING AND TRIMMING DEVICE
Paul P. Burns, Philadelphia, Pa.
Application July 19, 1948, Serial No. 39,485
2 Claims. (Cl. 30—30)



1. In a hair cutting and trimming device, a laterally extending bar, cutting and trimming units, friction pivots securing the units to the bar in the same plane and providing for their relative angular adjustment to conform to the contour of a person's head, each unit having a fixed and a pivoted side and tensioned to receive a cutting blade therebetween and having teeth forming slots in the lower end of the fixed sides and extending inwardly of the termination of the cutting edge of the blade, a handle carrier fixed to the bar and angularly bent and having spaced apertures, and a handle secured in a selected aperture.

2,587,965
INSECTICIDE SPRAYER
James M. Campbell, Greenfield, Mass.
Application October 11, 1948, Serial No. 53,837
7 Claims. (Cl. 299—62)



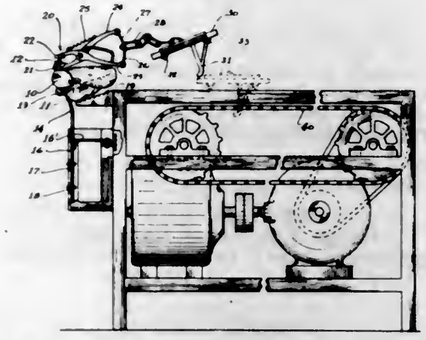
5. In an insecticide sprayer, a base including a circular wall, a reservoir rotatably disposed above said wall, spaced support members carried by said reservoir for rotation therewith, horizontally aligned bearings carried by said supports, an impeller shaft journalled in said bearings, an air impeller fixed on said shaft for rotation therewith about a horizontal axis, a blower housing disposed around said impeller and formed with a discharge neck opening outwardly therefrom, an air inlet opening into said housing, a cylindrical bushing extending outwardly from each side of the housing, bearing sleeves carried by said supports concentrically with said impeller shaft bearings and rotatably engaging said bushings and supporting said housing for rotation about the axis of said impeller shaft, brake means engaging at least one of said bushings for locking said housing at different points of rotation, and a second brake means engageable between the reservoir and base for locking said reservoir in selected position relative to said base.

2,587,966
EAR CLAMP
Joseph J. Cleary, Lexington, Mass.
Application October 30, 1950, Serial No. 192,955
3 Claims. (Cl. 128—346)



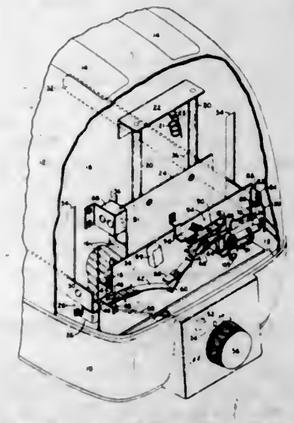
1. A device for use in the cutting of dog ears comprising a pair of elongated clamp plates adapted to receive the ear of a dog therebetween, adjustable fastening means securing the opposite ends of the plates together, said plates having registering elongated slots for the reception of a razor blade therethrough for guiding the same, one of said plates having a plurality of openings therethrough to one side of the slot to increase the frictional retention of the plate on the ear of a dog when the fastening means are tightened.

2,587,967
SKINNING METHOD
Frederic J. Coad, deceased, late of Des Moines, Iowa, by Mrs. Frederic J. Coad, administratrix, Des Moines, Iowa, the same person as Gwendolyn Coad, assignor, by mesne assignments, to Swift & Company, Chicago, Ill., a corporation of Illinois
Original application July 18, 1944, Serial No. 545,474. Divided and this application August 9, 1948, Serial No. 43,286
6 Claims. (Cl. 17—45)



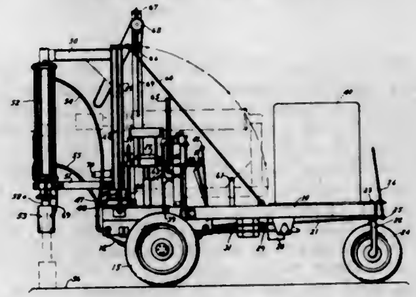
1. A method of skinning meat pieces comprising loosening the skin at one edge of the piece with the piece disposed so that said edge is in rearward position, holding the loosened skin against forward movement, and moving said piece forwardly while permitting the piece to turn as the skin is removed therefrom.

2,587,968
ELECTRIC TOASTER
Curtis C. Coons, North Canton, and Otis B. Sutton, Canton, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 3, 1947, Serial No. 771,912
14 Claims. (Cl. 99—329)



1. A toaster comprising, bread carriers movable from a bread receiving to a toasting position, main heating means positioned to perform a toasting function, a thermal timer for timing the duration of successive toasting operations, auxiliary heating means for said thermal timer, switch means actuated by movement of said carriers to toasting position for a first toasting operation for simultaneously energizing said main and auxiliary heating means to cause said thermal timer to move from its cold position to its hot position, and control means actuated by movement of said thermal timer from its cold position to its hot position for terminating said first toasting operation, said switch means being actuated by movement of said carriers to toasting position for a second toasting operation for deenergizing said auxiliary heating means to cause said thermal timer to move from its hot position to its cold position to time said second toasting operation, said control means being actuated by movement of said thermal timer from its hot position to its cold position to terminate said second toasting operation.

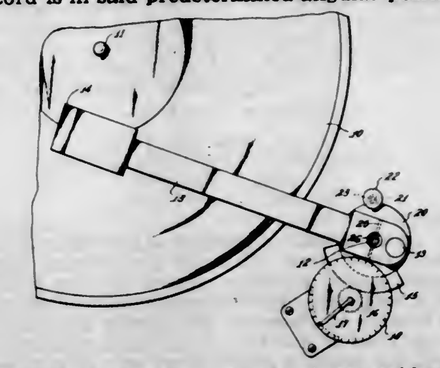
2,587,969
MOTOR-DRIVEN CUTTING AND BREAKING MACHINE
Walter V. Cornett, Los Angeles, Calif.
Application May 27, 1946, Serial No. 672,605
6 Claims. (Cl. 262—13)



1. In a cutting and breaking machine, a main frame forming a chassis, wheels supporting said frame, a motor on said frame, an operator's station on said frame; manually operable means within reach of an operator at said station for controlling the operation of said motor, a transmission adapted to be driven by said motor; manually operable means including a lever within reach of an operator at said station for connecting and disconnecting said transmission to some of said wheels to rotate the same, a tool, a support for said tool rotatably mounted on said frame, and means operable by said lever for connecting and disconnecting said transmission to said support to rotate same, wherein said lever is movable in one direction to control the wheels and in another direction to control the tool support.

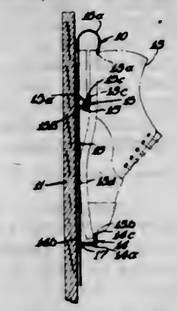
2,587,970
APPARATUS FOR PLACING A PICKUP ON A RECORD AT A PRESELECTED POSITION
Arthur William Courtis and Kenneth George Douglas Hallett, Brixton, London, England
Application March 14, 1949, Serial No. 81,286
In Great Britain March 11, 1948
5 Claims. (Cl. 274—1)

1. An apparatus for placing the pickup of a sound reproducing device on a rotating record at any preselected position thereon comprising a drive means for rotating said record, elevator means actuatable to lower said pickup into contact with said record and operable to lift said pickup out of engagement with said record, actuating means connected to said elevator means and operable by said drive means in a predetermined angular position of said record to actuate said elevator and lower said pickup when said record is in said predetermined angular position,



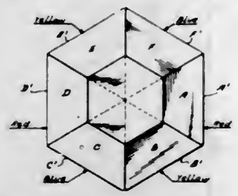
and control means connected between said actuating means and said elevator means and enabled by operation of said actuating means to operate said elevator and lift said pickup out of engagement with said record when said record is in said predetermined angular position.

2,587,971
SHOE SOLE STRAIGHTENER
David C. Crawford, Grosse Pointe Woods, Mich.
Application January 10, 1951, Serial No. 205,293
5 Claims. (Cl. 12—129.1)



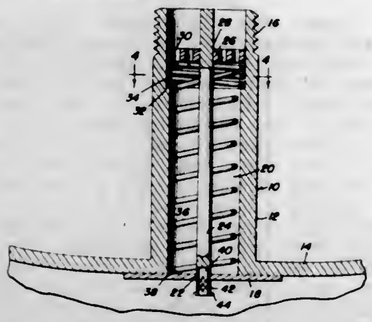
1. A shoe sole straightener which comprises spaced superimposed cross strips having web portions with legs on the ends thereof and in angular relation therewith, said web portions having slots therethrough adjacent one of the legs thereof, an upright strip extending through each of said slots at right angles to said cross strips and slidable in said slots, said upright strip having a rounded end portion forming a hook with a free end having a downward and inward gripping action, each of said webs having the legs thereof remote from the slots projecting toward said hook-like end to coact therewith for supporting a shoe, and fasteners positioning the cross strips in desired spaced relation, said hook-like end of the upright strip being adapted to seat in the groove between the heel and counter of a shoe and the upturned leg of the lower cross strip being adapted to seat in the groove between the toe of the sole and the toe counter of the shoe, whereby the hook-like end of the upright strip will urge the shoe so that the sole will fulcrum about a point between the heel and toe thereby straightening the shoe and creating friction to hold the upright strips in fixed relation to the cross strip.

2,587,972
GEM STONE FOR ARTICLES OF JEWELRY
George W. Crise, Columbus, Ohio
Application January 30, 1946, Serial No. 644,371
3 Claims. (Cl. 63—32)



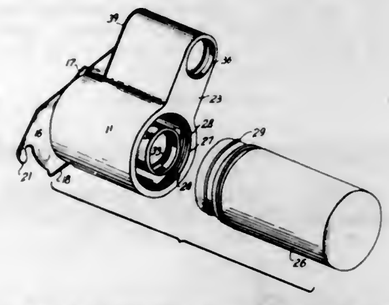
1. In an article of jewelry; a one-piece translucent jewel body of solid geometrical shape formed with a normally exposed viewing portion and a mounting portion normally concealed from the view of an observer, the viewing and mounting portions of said body being each symmetrical about the common longitudinal axis of said body and protruding longitudinally outwardly from the major transverse dimension of said body, the viewing portion of said body possessing short focus convergent optical qualities and being arranged to refract substantially all lines of sight of an observer looking upon the viewing portion of said body from one side thereof to substantially a single segment on the opposite side of the mounting portion of said body; and a plurality of differently colored coating films disposed in direct intimate contact with different segments of the mounting portion of said body, said films being disposed in different color sequence about the longitudinal axis of said body, whereby each of said films projects its color alone to an observer looking upon the viewing portion of said body from a side thereof opposite a given film, said body, when rotated axially and relative to the lines of sight of an observer, serving to impart to the observer the illusion that the entire viewing portion of said body changes color.

2,587,973
AUTOMATIC TIRE TUBE AIR VALVE
Robert A. Daalmeyer, Hoboken, N. J.
Application September 19, 1949, Serial No. 116,550
3 Claims. (Cl. 137—53)



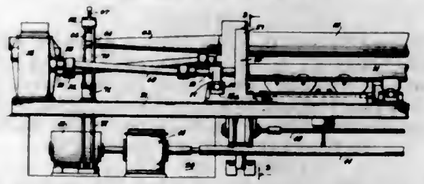
3. A valve mechanism comprising a tubular housing having an axial passage therein, a valve plate adapted to close off the inner end of the passage, a rod slidably disposed through the plate and extending longitudinally in the passage, a vertically apertured disk fixed on the outer end of the rod, a spring secured to the disk and to the plate and disposed concentrically about the rod, whereby downward movement of the rod compresses the spring to open the valve plate, an annular shoulder formed in the outer end of the passage, a spring disposed between the shoulder and disk, an axial opening formed in the inner end of the rod, lateral exhaust ports in said rod end communicating with the passage and stop means formed on the extremity of the inner end.

2,587,974
COMBINATION VAPORIZER AND BLOWER
George P. Daiger, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 5, 1948, Serial No. 6,409
3 Claims. (Cl. 21—127)



1. An accessory for treating the air discharged from a suction cleaner and comprising a body, means for connecting said body to the air discharge outlet of a suction cleaner, means defining a conduit in said body conveying the untreated air from the suction cleaner discharge outlet and having an outlet for the untreated air, a container for vaporizable crystals having a mouth and being otherwise closed to treat the air, means removably attaching said container to said body, said container when attached to said body receiving said conduit outlet telescoped within said container mouth to convey the untreated air to said container of crystals to treat the air, said conduit outlet being of less diameter than said container mouth to form therewith an annular outlet for the treated air, and means in said body cooperating with the exterior of said conduit to form an annular passageway communicating with said annular treated air outlet to discharge the treated air from said body.

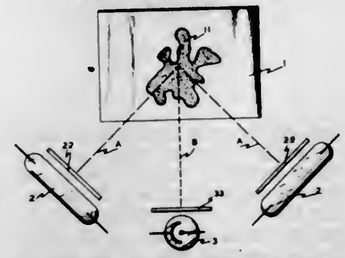
2,587,975
APPARATUS FOR FORMING CYLINDRICAL SHAPES
Frederic M. Darner, Shaker Heights, Ohio, assignor to Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey
Application June 14, 1949, Serial No. 99,102
11 Claims. (Cl. 153—54)



1. In an apparatus for forming cylindrical shapes, the combination comprising a pair of rolls mounted opposite each other with their axes parallel, a third roll mounted on an axis midway between and displaced from the plane of the axes of said pair of rolls, said rolls being

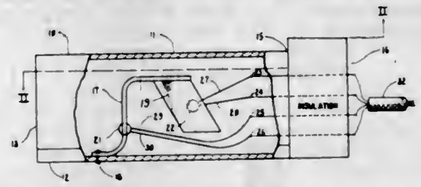
spaced from each other for engaging a sheet of material between said third roll and each of the rolls of said pair of rolls, bearings for said rolls, means for elevating and lowering the bearings for said third roll to change the spacing between said third roll and each of the rolls of said pair of rolls, a carrier mechanism located between the rolls of said pair of rolls and beneath said third roll, and means for operating said carrier mechanism to engage a rolled shape on said third roll and raise the shape from contacting relationship with said pair of rolls.

2,587,976
METHOD AND APPARATUS FOR PLANIMETRY AND QUADRATURE
Jack De Ment, Portland, Oreg.
Application August 4, 1949, Serial No. 108,604
4 Claims. (Cl. 250—71)



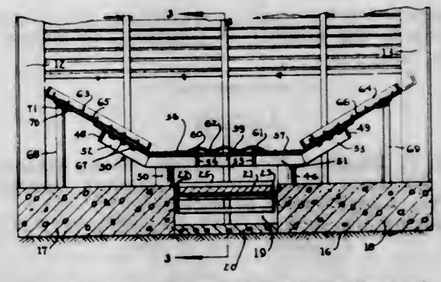
1. The method for the measurement of an irregular surface which comprises the steps of rendering the said irregular surface luminescent, the irradiation of the luminescent surface with exciting radiation, the measurement of the luminescence intensity of the surface, and the comparison of the said irregular surface luminescence intensity with the luminescence intensity of a surface of known area.

2,587,977
RESISTOR TYPE FLAME DETECTOR
Justin A. Deubel, Hales Corners, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application November 4, 1948, Serial No. 58,255
7 Claims. (Cl. 201—63)



1. An apparatus for detecting the presence or absence of flame in a combustion chamber comprising: a casing having an open end and adapted to be mounted so that said open end faces said flame, a member having high thermal conductivity within said casing and secured in heat conducting relation thereto in proximity to said open end, a first temperature responsive resistance mounted on said member in heat conducting relation therewith for exposure to direct heat radiation from said flame through said open end of said casing, said first resistance being heated to a first temperature when flame is present in said combustion chamber, a body having a relatively large mass to surface area ratio and high thermal conductivity secured to said member and shielded from direct heat radiation from said flame by said member, a second temperature responsive resistance mounted on said body in heat conducting relation therewith and adapted while flame is present in said burner to be maintained at a second temperature defining a temperature differential between said first and second temperatures; said casing, said member and said body forming a heat conducting path operating to rapidly decrease said temperature differential when said flame is extinguished.

2,587,978
DRYING FLOOR FOR STORAGE STRUCTURES
Mark R. Deyo, Peoria, Ill.
Application October 27, 1950, Serial No. 192,593
5 Claims. (Cl. 34—239)

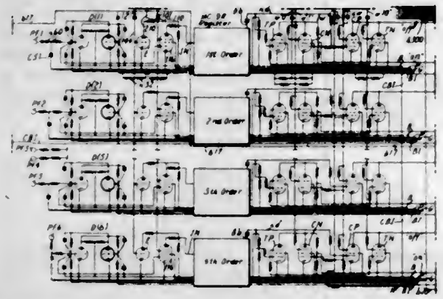


1. In a storage structure having side and end walls and a floor provided with a recess extending from one to the other end wall substantially midway between said side walls and a conveyor in said recess, a drying floor for said structure comprising a plurality of rectangular panels disposed above said floor and arranged in rows of contiguously arranged panels disposed one row above said recess and one row at each side of the latter with said panels extending substantially to the opposite side walls of said structure and from one end of the structure to the other, means supporting said panels from said floor so that the panels in the rows disposed at each side of said recess are upwardly inclined away from said recess, each of said panels comprising a rigid frame and a body of reticulate material within and marginally secured to the frame, at least some of said panels having discharge openings therein, doors slidably mounted on said panels in covering relationship to said discharge openings, and means interconnecting said doors for progressively moving the latter from one end to the other of said recess to progressively uncover said discharge openings.

2,587,979
ELECTRONIC SYSTEM
Arthur H. Dickinson, Greenwich, Conn., and Byron E. Phelps, Wappinger Falls, and Carl A. Bergfors, Yonkers, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application October 22, 1946, Serial No. 704,914. Divided and this application April 23, 1948, Serial No. 22,874
11 Claims. (Cl. 235—61.6)

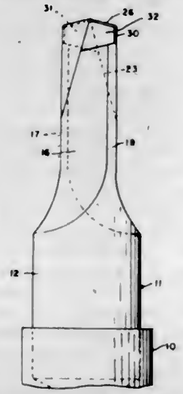
1. Apparatus comprising a network of electronic discharge tubes selectively energized to represent any of different numbers, circuits under control of the network for selectively reading out a represented number subtractively or additively, means to condition said circuits selectively for subtractive or additive readout operation, and number receiving means including a series

of electronic devices and circuit connections fixedly coupling these devices for progressive digit-corresponding operation in one direction only,



in response to the reading out circuits and in proportion to the number as additively or subtractively read out.

2,587,980
DRILL
Ervin C. Doepker, New Hudson, Mich., assignor to National Tool Salvage Company, Detroit, Mich., a corporation of Michigan
Application April 14, 1947, Serial No. 741,323
7 Claims. (Cl. 77—67)



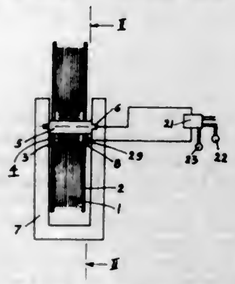
1. A drill having a cutting body whose normal cross-section is substantially a parallelogram having major and minor diagonals, said body having side walls and edge walls, said drill having flutes at the end corners thereof intersected by the minor diagonal, each of said flutes being defined by two intersecting side surfaces one of which intersects the adjacent edge wall and the other of which intersects the adjacent side wall of the body, the root line formed by the intersection of said side surfaces of the flute extending obliquely inwardly of the body from an intermediate point on the side wall of said body and intersecting the end surfaces of the body and the corresponding root line of the other flute at a point substantially on the axis of said drill, the end of said body consisting of two angularly disposed surfaces each of which is bounded by its intersection with a side wall and edge wall of said body and one side surface of each of said flutes, said end surfaces intersecting each other substantially on the axis of said drill at the point of intersection of said root lines, each of said end surfaces defining a first radial cutting edge at its intersection with the side surface of the flute which extends inwardly from the side wall of said body and a second cutting edge at its intersection with the side wall of said body, each of said end surfaces being inclined at an angle to produce cutting clearance in back of both of said cutting edges.

2,587,981
SPEED AND TORQUE SENSITIVE GOVERNOR
William A. Duffield, Windsor, Ontario, Canada, assignor to Windfields (1946) Limited, Montreal, Quebec, Canada, an incorporated company
Application February 13, 1948, Serial No. 8,067
9 Claims. (Cl. 264—16)



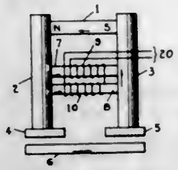
7. A speed and torque sensitive governor comprising a rotatable torque input member a rotatable output member coaxial with said input member, one or more arcuately disposed weights eccentrically pivoted about pivot points on said output member, each of said pivot points being adjacent to the leading end of the weight in the direction of rotation, radially inwardly directed slots in each of said weights between the pivot point and the axis of rotation of the rotatable members, radially outwardly extending arms on the input member cooperating with said slots to provide a driving connection at all positions of the weights between the input and output members while permitting limited relative angular displacement between said members means limiting the inward and outward biasing of said weights, and a governing arm connected to at least one of said weights at a point remote from the pivot point.

2,587,982
SAFETY DEVICE FOR LOOMS
Jean Dunod, Paris, France, assignor to Qualitex Societe Dunod et Cie, Paris, France, a company
Application April 27, 1948, Serial No. 23,607
In France May 12, 1947
8 Claims. (Cl. 139—353)



1. A safety device for a loom to come into action on the breakage of a thread, comprising a spool on which the supply of thread is wound, a bush upon which the spool can rotate with friction, a spindle supporting the bush for free rotation, means for holding the spindle against rotation, a spiral spring connecting the spindle and the bush to permit limited rotation of the bush against spring tension, a relay, and means for causing the relay to be actuated when the spring is relieved of tension.

2,587,983
ELECTROMAGNETIC DEVICE OPERABLE BY ALTERNATING CURRENT
Paul H. Durand, Paris, France, assignor to General Railway Signal Company, Rochester, N. Y.
Application January 7, 1950, Serial No. 137,339
In France February 22, 1949
1 Claim. (Cl. 175—338)



An electro-magnetic device of the tractive armature type operable by alternating current comprising, a stacking of laminations formed with end pieces connected by a pair of parallel shunt members, a permanent magnet applying a magneto-motive-force to the mid-points of said end pieces, windings on said shunt members wound and connected together to create when energized with a given polarity magneto-motive-forces tending to send flux in opposite directions through said shunt members, a pair of soft iron cores connected to the respective mid-points of said end pieces of the laminated stacking and terminating in enlarged pole pieces, a movable armature spanning said pole pieces and biased to a retracted position, said shunt members having a cross-section proportioned with respect to the strength of the permanent magnet to be substantially saturated by flux from the permanent magnet alone, said shunt members although saturated diverting sufficient permanent magnet flux to leave in the flux paths from the ends of the respective shunt members through said cores and pole pieces relatively little flux and insufficient to attract said armature, said windings when energized with alternating current acting alternately on successive half-cycles to oppose the permanent magnet flux in their respective shunt members and produce an operating flux through said cores and armature on the successive half cycles, said shunt members and permanent magnet being disposed in a symmetrical relation to the paths of operating flux through the armature and thereby causing substantially the same amount of armature operating flux on the successive half cycles of alternating current energizing said windings.

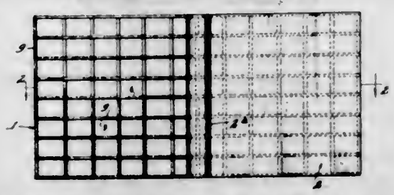
2,587,984
DEVICE FOR ARTIFICIALLY INSEMINATING ANIMALS
Donald W. Edwards, Dixon, Ill.
Application September 19, 1950, Serial No. 185,624
2 Claims. (Cl. 128—234)

1. In an artificial insemination instrument, a hollow outer tube having opposing open ends, one of said ends constituting a discharge end adapted to be inserted in the vaginal passage of a female animal and abutting the cervix, a piston workably mounted in the tube, means extending from said piston through the end of the outer tube opposed to the discharge end for moving said piston, a stop on said tube limiting the movement of the piston from the discharge end so that fluid drawn into the tube from the uterus is positioned in the tube adjacent the discharge end, an inner tube concentrically arranged in the outer



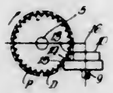
tube and slidably disposed through the piston, and means slidable in said inner tube for discharging semen in the inner tube from said inner tube into the uterus in advance of the fluid forced back into the uterus by the piston.

2,587,985
WALL AND METHOD OF MAKING IT
Armin Elmendorf, Winnetka, Ill.
Application April 19, 1946, Serial No. 663,472
15 Claims. (Cl. 20—4)



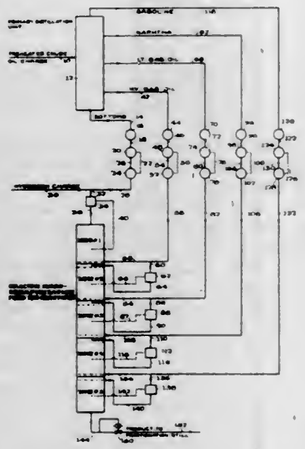
1. The method of covering a wall frame structure containing spaced studs, faces of which are exposed on one side of the structure, so as to provide it with a continuous face highly resistant to rupture from blows struck against the same, which comprises the securing of furring strips crosswise of the studs and spaced apart from each other several times the width of the strips, with the furring strips in contact with the exposed faces of the studs, creating a flexible panel as wide as the height of the wall and as long as the width of the wall and composed of a layer of wood and a layer of paper bonded together and capable of being rolled up, providing the wood face of the panel and the outer faces of said strips with coatings of dry bonding adhesive, rolling up the panel when the adhesive is so dry that it will not adhere to the paper facing during this step, placing the roll against the strips at one end of the frame structure with the adhesive on the loose end of the panel in contact with the adhesive on the strips, unrolling the panel so as to place it in position completely to cover said frame structure, and applying pressure at enough areas in the face of the panel to cause the entire coating on the strips to adhere firmly to the coating on the panel.

2,587,986
UNIDIRECTIONAL GEAR TRAIN
Ivar K. Fog, King Township, Ontario, Canada, assignor to Sangamo Electric Company, Springfield, Ill., a corporation of Illinois
Application August 3, 1949, Serial No. 108,247
In Canada May 28, 1949
8 Claims. (Cl. 74—812)



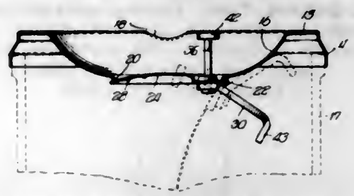
1. In a uni-directional gear train, a driving spindle, a driven spindle in angular relation thereto, a gear on said driven spindle, cam means mounted on said drive spindle and presenting non-coplanar peripherally spaced cam lobes; each of said lobes being symmetrically formed on either side of their points of maximum eccentricity whereby they are adapted to mesh with the teeth of said gear to actuate the teeth engaged thereby outwardly of said drive spindle, thereby to rotate said gear and driven spindle in a given direction independent of the direction of rotation of said driving spindle.

2,587,987
SELECTIVE HYDRODESULFURIZATION PROCESS
Leslie U. Franklin, Port Arthur, Tex., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 10, 1949, Serial No. 92,385
12 Claims. (Cl. 196—28)



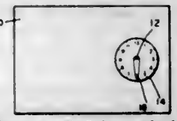
1. A selective hydrodesulfurization process which comprises removing sulfur from petroleum hydrocarbons by fractionating a petroleum hydrocarbon charge stock into a plurality of fractions, contacting a high boiling fraction with a hydrogenation catalyst in the presence of a hydrogen-containing gas, combining a lower boiling fraction with the mixture of said high boiling fraction and hydrogen-containing gas, heating this mixture to an incrementally higher temperature and contacting this heated mixture with a hydrogenation catalyst.

2,587,988
COVER AND CLOSURE FOR WASTE RECEPTACLES
Robert I. Fredrickson, Chicago, Ill., assignor to Chicago Metallic Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application August 26, 1949, Serial No. 112,633
1 Claim. (Cl. 220—20.5)



In an ash receiver or the like, a cover member having a raised edge portion and a depressed central receiving portion, said receiving portion having an opening therein, a tiltable closure member larger than the opening pivotally secured at one point to the under side of the cover member adjacent the edge of the opening, an opening through the closure adjacent the pivoted connection, a counterbalance located below the closure and extending away from the closure beyond the pivot, said counterbalance having an opening therein aligned with the opening through the closure, and a tumbler pin extending above the closure for manual operation to tilt the closure, said pin extending through the closure and counterbalance openings to secure the parts in assembled relation.

2,587,989
INDICATOR LABEL
Hans Friedler, Genoa, Italy
Application November 19, 1947, Serial No. 786,977
In Italy November 23, 1946
4 Claims. (Cl. 116—121)

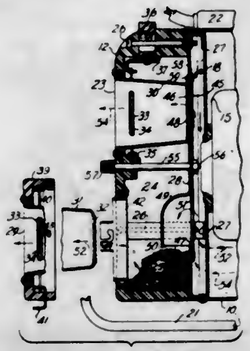


1. A label having a dial imprinted thereon and having an aperture provided therethru on the axis of said dial, an indicator mounted in said aperture including an L-shaped pointer portion one leg of which overlappingly engages that side of the label on which the indicia is provided the other leg of which extends through said aperture and terminates in an enlarged bearing portion formed integral therewith which engages the opposite face of the label for mounting said pointer for movement relative to the axis of said aperture, said bearing portion being of a dimension such as to preclude passage of said member thru said aperture.

2,587,990
MANUFACTURE OF DETERGENTS AND WETTING AGENTS FROM OLEFINS
Philip J. Garner, Hooton, Wirral, and Henry N. Short, Sunbury-on-Thames, England, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 18, 1949, Serial No. 105,438. In Great Britain July 22, 1948
9 Claims. (Cl. 260—460)

1. In a process of producing ester salts by reacting olefin-containing hydrocarbon with a polybasic inorganic acid and neutralizing the acid esters produced whereby a mixture of unreacted olefin-containing hydrocarbon, secondary alcohol corresponding to said olefin and olefin polymers is obtained, the improvement which comprises contacting a substantially polymer-free portion of said mixture comprising an olefin and a secondary alcohol with a dehydration catalyst under dehydration conditions to convert said secondary alcohol to the corresponding olefin, reacting the olefinic product with a polybasic inorganic acid, and neutralizing the acid ester thus produced whereby the yield of ester salts is increased.

2,587,991
SUCTION CLEANER
Dale C. Gerber, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application February 5, 1948, Serial No. 6,490
12 Claims. (Cl. 21—127)



1. A suction cleaner comprising a casing having a first outlet port and an inlet port whereby the vacuum cleaner is adapted to clean either by suction or by blowing, an additional outlet port formed on said casing, valve means for controlling the flow of air within the casing whereby the air within the casing is adapted to be discharged through a pre-selected outlet port, the remaining outlet port being inoperative with respect to the discharge of air therefrom, a chamber formed adjacent to said outlet ports and said valve means, said chamber containing a vaporizable substance for conditioning the air discharged from the cleaner, the conditioned air being discharged from said additional outlet port upon predetermined selection of the valve means preventing the flow of air through said first outlet port utilized in the normal cleaning operation and permitting air from suction cleaner to discharge through said additional outlet port whereby the air discharged through the suction cleaner is conditioned by the vaporizable material through which the air passes prior to its discharge from said additional outlet port.

2,587,992
DRY PROCESS FOR AGGLOMERATING WOOD PARTICLES
Siegfried Glaubert, Neuilly-sur-Seine, France
No Drawing. Application October 30, 1948, Serial No. 57,627. In France January 10, 1948
3 Claims. (Cl. 106—163)

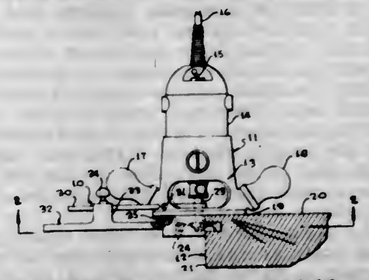
1. A dry process for agglomerating wood particles containing lignin comprising the steps of adding to a mass of said particles a solution of a weak acid containing between about .055% to about .11% by weight of acid to the said mass, and said solution being between about .25% to .50% by weight of solution to the said mass; then adding a solution of a strong mineral acid containing between about .04% to .08% by weight of strong acid to the said mass and said solution of strong acid being between about .25% to .50% by weight of solution to the said mass; and subjecting the said mass to moderate heat and pressure.

2,587,993
SPRAY GUN AIR CAP
William Gray, Vancouver, British Columbia, Canada
Application November 9, 1948, Serial No. 59,090
1 Claim. (Cl. 299—140.1)



An air cap for spray guns for paint and similar materials having a central orifice through which material to be sprayed may be forced, shoulders spaced from and located on opposite sides of the central orifice, said shoulders having flat outer ends lying substantially at right angles to the path of travel of the sprayed material, inclined surfaces on the shoulders facing inwardly of and upwardly from the cap, an air passage in each shoulder opening out at one end through the inclined surface thereof and communicating at its opposite end with the interior of the cap, a deflector projecting outwardly from each shoulder end and having an inner surface curving towards the central orifice, an air orifice in the flat surface of each shoulder at the base of the inner surface of its deflector substantially midway between the sides of the latter, and an additional passage extending through each shoulder substantially parallel with the axis of the cap from its first-mentioned air passage to its air orifice, said deflectors directing air passing out through the air orifices from the additional air passages around the material sprayed from the central orifice to form an air envelope extending completely around said material.

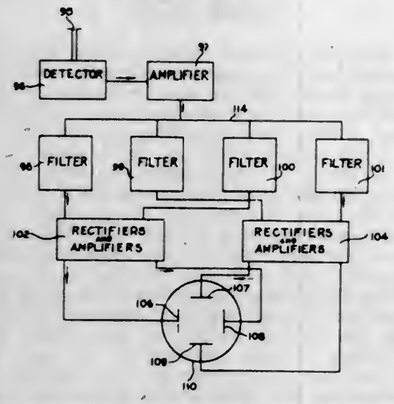
2,587,994
GUIDE AND ROUTING DEVICE FOR PORTABLE WOODWORKING MACHINES
Eugene J. Gregory, Seattle, Wash.
Application December 1, 1950, Serial No. 198,695
2 Claims. (Cl. 144—136)



1. The combination with a portable woodworking machine including a supporting base, a rotatable drive shaft having one end projecting from said base, a rabbeting tool carried by

the projecting end of said shaft, and a routing base arranged below said supporting base and having one end facing and spaced from said tool and connected to said supporting base for sliding movement toward and away from said tool, of a guide and routing solid one piece block having one face abutting said one end of said routing base and secured to the latter and having the other face cut away inwardly intermediate its ends to form a housing adapted to partially enclose the adjacent portion of said rabbeting tool when the routing base has been moved to its work engaging position.

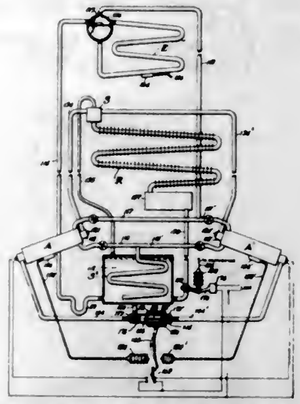
2,587,995
SYSTEM FOR GUIDING AIRPLANES IN FLIGHT
David T. Griggs, Washington, D. C., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application October 5, 1943, Serial No. 505,059
8 Claims. (Cl. 343—108)



1. In a system for guiding an airplane in flight, the method which comprises the steps of directing a concentrated beam of electromagnetic radiation at a slight angle to a predetermined glide path for an airplane, continuously revolving said beam of radiation about said glide path while maintaining the angular relation thereof, modulating said beam as it rotates with a different frequency for each quadrant of revolution, receiving said radiation in an airplane in the vicinity of said beam, separating by means of the modulation frequency differences of the received signals the energy received from said beam when passing through one of said quadrants from the energy received when said beam is passing through the other of said quadrants, creating a spot of light on a screen, causing said spot to assume a predetermined position on said screen when said signals from said beam when in said different quadrants maintain a predetermined amplitude relation, and causing said spot of light to move away from said predetermined position when the amplitude relation of said signals is altered, the magnitude and direction of movement of said spot being controlled by the amplitudes of the signals from said beam in the different quadrants.

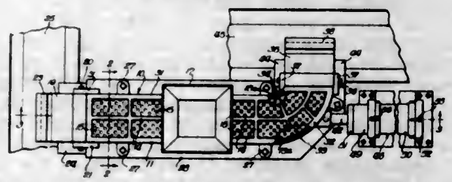
6. An apparatus for producing a conically revolving beam of electromagnetic radiation which comprises a radio transmitter, a substantially stiff transmission line between said transmitter and said radiator and supporting said radiator, a reflector of electromagnetic radiation supported adjacent said radiator and arranged to concentrate the radiation of said radiator into a beam of relatively small cross section, and means continuously to bend said transmission line and to cause said radiator to trace a predetermined continuous path with respect to said reflector without itself rotating, so as to cause said concentrated beam to revolve in a predetermined manner while maintaining constant the plane of polarization of said radiation.

2,587,996
ABSORPTION REFRIGERATION
Alfred G. Gross, Wilmette, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 5, 1943, Serial No. 493,491
21 Claims. (Cl. 62—5)



1. An absorption refrigerating apparatus comprising, an intermittent absorption refrigerating apparatus having two generator-absorbers each operating alternately as a generator and as an absorber and an indirect cooling system for said apparatus in open communication therewith and utilizing a portion of the refrigerant for transferring heat from said apparatus to the ultimate cooling medium.

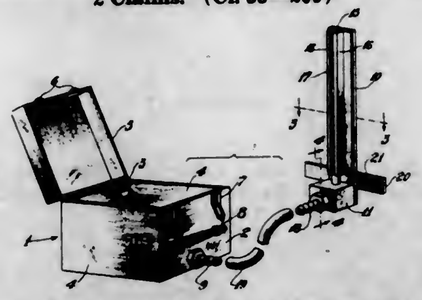
2,587,997
DOUBLE-ACTING PLUNGER PRESS
Herbert W. Guettler, San Francisco, Calif.
Application October 7, 1949, Serial No. 120,137
2 Claims. (Cl. 100—50)



1. In a press of the character described, a foraminous press box provided intermediate its ends with a feed opening in its top wall for introduction of material to be pressed, a plunger operative in said box, the latter comprising a continuous body portion straight lengthwise and an arcuate end portion extending from one end of said body portion substantially in the plane of the latter and opening toward one side thereof for discharge of pressed material, the other end of said body portion being open for discharge of pressed material, upwardly opening and downwardly closing weighted gates controlling said

openings, an operating rod extending through said one end portion into said body portion substantially coaxial therewith and secured at its inner end to said plunger, said rod terminating at one end at said plunger and the interior of said box being unobstructed except for said rod and plunger, and means for reciprocating said rod effective for moving said plunger in alternately opposite directions across and beyond said feed opening.

2,587,998
HYDROSTATIC MEASURING AND LEVELING APPARATUS
Maurice R. Heath, Dallas, Tex.
Application August 3, 1949, Serial No. 108,280
2 Claims. (Cl. 33—209)



1. Hydrostatic measuring and leveling apparatus comprising, in combination, a portable container for liquid, a flexible hose having one end connected to said container and communicating with the interior thereof, a portable gauge device including an elongated flat plate, a block secured to the front of said plate at its bottom end and having communicating socket portions in its upper and front surfaces, a transparent tube supported in the upper socket in upright position along the plate, a nipple supported in the front socket at right angles to said transparent tube and connected to the other end of said hose, a cross bar supported on the rear of said plate adjacent said block, said bar having an upper straight edge for sighting the level of liquid in the tube and for serving as a means for aiding in drawing a straight line on the surface being measured and angle plates disposed partially around said tube for guarding the same and for serving as a handle for manipulating said gauge device.

2,587,999
MANUFACTURE OF CHALK
Harold H. Heller, Appleton, and George H. Saunders, Neenah, Wis., assignors to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application June 27, 1950, Serial No. 170,628
8 Claims. (Cl. 23—66)

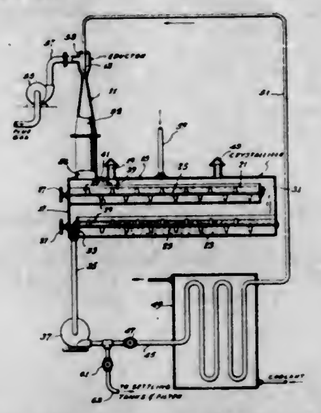
1. Method of making chalk crystals which are substantially unagglomerated comprising:

(a) making an aqueous slurry of calcium hydroxide in which the amount of calcium hydroxide in suspension is many times the amount in solution;

(b) intermixing carbon dioxide with a stream of said slurry for a fraction of a second, said intermixing resulting in the formation of an amorphous calcium carbonate floc;

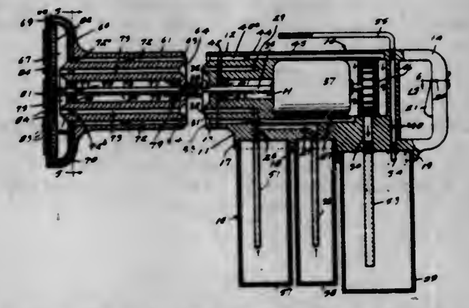
(c) promptly conducting the carbonated slurry away from the point of carbonation to a holding zone which is substantially free of carbon dioxide;

(d) holding said carbonated slurry in said holding zone for at least from 1 to 5 minutes while agitating said slurry to maintain the solid materials in suspension, during which period said floc crystallizes:



(e) then repeating steps (b), (c), and (d) a sufficient number of times to convert substantially all of the suspended calcium hydroxide into chalk.

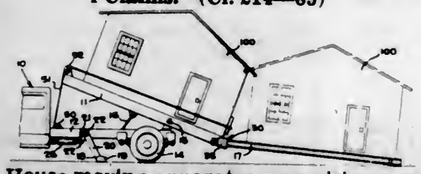
2,588,000
SUCTION CLEANER WITH BRUSH FOR CLEANING WALLS
Albert Roy Hines, Columbus, Ga.
Application January 29, 1946, Serial No. 644,017
2 Claims. (Cl. 15—320)



1. A surface cleaning device comprising a cylindrical body, an electric motor in said body, a suction fan housing having a pressure side and a suction side in said body, a suction fan in said suction fan housing operatively connected to said motor, said body formed with circumferentially spaced apart fluid inlet passages axially parallel to the axis of said body, opening through one end of said body and communicating with the suction side of said housing for the admission of fluid therein, said body formed with circumferentially spaced apart fluid discharge passages opening through said one end of the body and through one side thereof, means supporting a cleaning fluid container on a side of said body in communication with said fluid discharge passages, means supporting a fluid container on a side of said body in communication with an opening from the pressure side of said fan housing, a shaft on said motor coaxial wth said body in said one end thereof, a brush supporting housing formed with fluid inlet and discharge passages longitudinally thereof, a shaft rotatable in said brush housing, a rotatable brush at one end of said brush housing operatively connected with

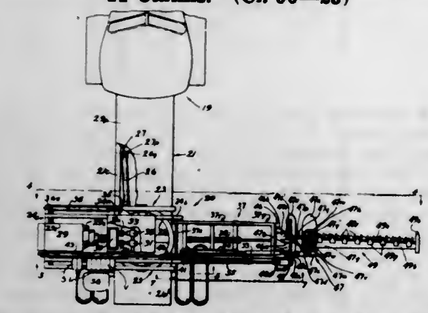
said second named shaft interengaging coupling means carried by the confronting ends of said shafts, an annular suction nozzle carried by said brush housing enveloping said brush, said fluid passages opening interiorly of said nozzle, said latter fluid passages opening through the ends of said brush housing, and clamping means securing said brush housing on said cylindrical body, said fluid inlet and discharge passages of said brush housing and body being in alignment in the clamped position of said brush housing on said cylindrical body.

2,588,001
APPARATUS FOR MOVING SMALL HOUSES AND THE LIKE
James C. Holland, Los Angeles, Calif.
Application December 10, 1948, Serial No. 64,598
4 Claims. (Cl. 214—85)



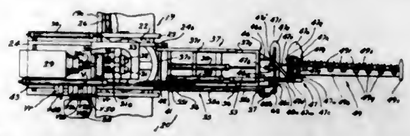
1. House moving apparatus comprising a motor truck, a tiltable bed on said truck, a pair of rails one on either side of said truck, pivoted brackets adjacent the rear of said bed and engaging said rails, means adjacent the front of said bed adapted to support the front of said rails and to move the front of said rails to or away from the ground, means carried by said bed and engaging said rails for projecting said rails through said brackets adjacent the ground to form an inclined plane leading to said truck bed when said bed is tilted in intermediate position.

2,588,002
HYDRAULICALLY OPERATED MOBILE WEED AND BRUSH CUTTER
Earl W. Holmes, Burlington, Wash.
Application March 26, 1948, Serial No. 17,344
11 Claims. (Cl. 56—25)



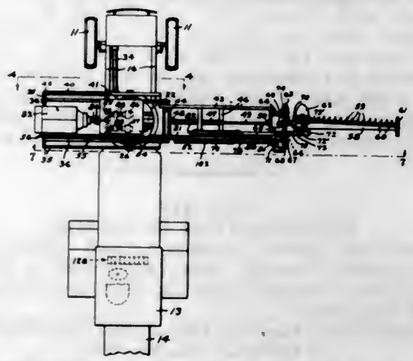
1. A mobile weed and brush cutter comprising, in combination, a mobile carrier having a bed frame, a foundation frame supported by and removably secured to said bed frame, a turntable having upper and lower articulated annular members with the lower said member fixedly associated with said foundation frame, a cutter mechanism plant supported by the upper member of said turntable, hydraulic cylinder and piston means operatively connected between said foundation frame and the upper member of said turntable, fluid pressure supply means, conduit means connecting said fluid pressure supply means with said hydraulic cylinder, and remote control valve means in said conduit means, said cylinder and piston means and said fluid pressure supply means and said conduit means and said control valve means providing a hydraulically motivated and valve controlled actuator operatively connected between the mobile carrier and the cutter mechanism plant for adjustably swinging said cutter mechanism plant relative to said foundation frame.

2,588,003
HYDRAULICALLY OPERATED RECIPROCATING SICKLE MECHANISM
Earl W. Holmes, Burlington, Wash., assignor to Hall Machine and Iron Works, Inc., Mount Vernon, Wash.
Application March 26, 1948, Serial No. 17,345
9 Claims. (Cl. 56—25)



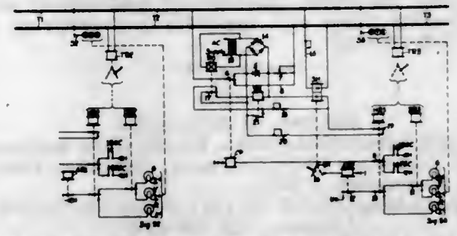
1. In a mobile weed and brush cutter, an adjustable support frame, a base member secured to an end portion of said support frame, a substantially horizontal shaft carried by said base member, a flexible coupling attached to said shaft, a hydraulic motor axially aligned with said shaft and directly connected by said flexible coupling with said shaft, and a cutter sickle assembly pivoted for vertical swinging movement about an axis coincident with the axis of said shaft, said cutter sickle assembly having a sickle driven from said shaft.

2,588,004
CONTROL MEANS FOR HYDRAULICALLY OPERATED WEED AND BRUSH CUTTERS
Earl W. Holmes, Burlington, Wash.
Application June 25, 1948, Serial No. 35,163
7 Claims. (Cl. 56—25)



1. In control means for a mobile weed and brush cutter which is mounted on an automotive truck having a frame and having driving control means for the truck positioned on the rear end portion of the truck frame and having a horizontal turntable rotatively supported on the truck frame forwardly of said driving control means and in spaced relation therefrom and having extensible frame means carried by said turntable and movable by rotation of said turntable between a position substantially crosswise of the truck frame and a position substantially parallel to the truck frame and having cutter mechanism carried by said extensible frame means; actuating means for said cutter mechanism carried by said extensible frame; and control means for said actuating means positioned adjacent said driving control means providing for one man operation of said weed and brush cutter.

2,588,005
APPROACH CONTROL IN CODED TRACK CIRCUIT SIGNALING SYSTEMS
James Y. Howard, Greece, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application June 16, 1945, Serial No. 599,827
19 Claims. (Cl. 246—34)



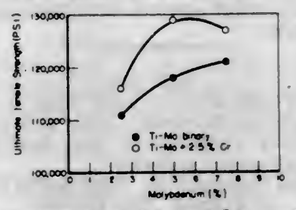
8. In a coded track circuit for railroads, a track section having a code following track relay at one end and code transmitting means at the other end, said code transmitting means including a source of current and coding contacts operating intermittently for applying code pulses to the track rails at that end of the track section at one selected code rate, control means for governing said coding means to select a different code rate in accordance with traffic conditions, an approach relay of the biased polar type and having a main winding connected across the track rails at said other end of said track section so as to be responsive to the code pulses applied to said track section at that end, said approach relay also having a steadily energized compensating winding, and means governed by said control means for changing the degree of energization of said compensating winding dependent upon a change in the selected code rate.

2,588,006
DENTAL AND SURGICAL PERCUSSION TOOL
Fred M. Hufnagel, Glendale, Calif.
Application April 21, 1947, Serial No. 742,965
15 Claims. (Cl. 32—53)



1. A dental or surgical percussion tool comprising: a body; a hammer-armature mounted for reciprocation on said body; solenoid coil means for reciprocating said hammer-armature; an anvil and tool tip positioned for engagement by said hammer-armature and mounted for limited reciprocation on said body; a control switch for said solenoid coil means operated by movement of said tool tip relative to said body in response to pressure thereof against a surface; and yieldable means adapted to maintain said switch closed during repeated impacts of said hammer-armature and reciprocations of said anvil and tool.

2,588,007
TITANIUM-MOLYBDENUM-CHROMIUM ALLOYS
Robert I. Jaffee, Columbus, Ohio, assignor, by mesne assignments, to Battelle Development Corporation, Columbus, Ohio, a corporation of Delaware
Application October 5, 1948, Serial No. 52,961
1 Claim. (Cl. 75—134)



An alloy comprising 2.5 to 7.5% molybdenum, 0.5–2.5% chromium as the only alloying elements and the remainder essentially all titanium.

2,588,008
GERMANIUM CRYSTAL RECTIFIERS AND METHOD OF PRODUCING THE CRYSTAL ELEMENT THEREOF
Douglas E. Jones and John W. Ryde, Wembley, England, assignors to Haseltine Research, Inc., Chicago, Ill., a corporation of Illinois
No Drawing. Application July 29, 1947, Serial No. 764,580. In Great Britain July 16, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 16, 1961
10 Claims. (Cl. 175—366)

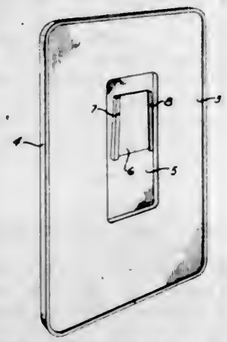
2. An electrical translating device comprising a body of germanium of high purity having an etched crystallographic cleavage contact surface and a pointed metallic contact held against said contact surface whereby the device may serve as a circuit component presenting a nonlinear impedance to the passage of electric current therethrough.

3. The method of producing a crystal rectifier comprising shaping a body of germanium of high purity to form a crystallographic cleavage contact surface on said body and subsequently etching said contact surface.

2,588,009
MOUNTING DEVICE FOR WALL MIRRORS
Norman B. Jones, Toledo, Ohio, assignor to The Toledo Plate & Window Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 25, 1946, Serial No. 51,278
3 Claims. (Cl. 88—97)

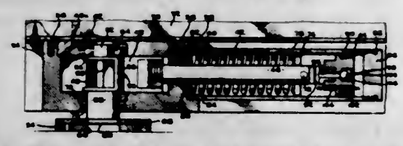
1. A mirror having a back consisting of a sheet of metal formed with a substantially rectangular panel sunk below the exterior surface of the sheet, there being a clip secured to the panel and located within the space overlying the upper portion of the panel, and a cooperating bracket adapted to

be fastened to a wall and to extend into the space overlying the lower portion of the panel, said clip and bracket having converging channels and



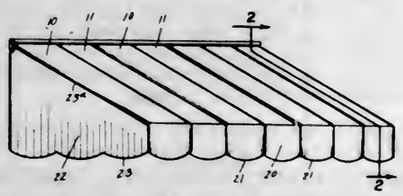
flanges adapted to engage each other with wedging action when said mirror is moved downwardly while said bracket extends into the space overlying said panel.

2,588,010
DOOR HINGE AND CHECK
Lorenzo Kennon, Burbank, Calif., assignor to Rice Engineering Corporation, Los Angeles, Calif., a corporation of California
Application November 26, 1948, Serial No. 61,959
11 Claims. (Cl. 16—55)



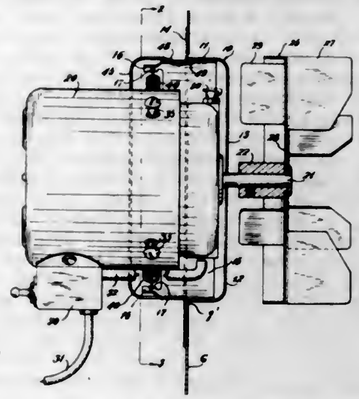
1. A device of the class described comprising: a stationary hinge pin, said hinge pin including a wedge-shaped cam portion; a hinge housing pivotally carried by said hinge pin; a fluid check cylinder mounted on said housing; piston means reciprocable in said cylinder and resiliently connected with said housing; and a cam follower transversely slidable with respect to said hinge pin within said housing carried by said piston means and resiliently urged against said cam.

2,588,011
METAL AWNING STRUCTURE
Maurice J. Kersey, New Castle, Ind.
Application September 14, 1949, Serial No. 115,659
1 Claim. (Cl. 20—57.5)



In a metal awning having side curtains, the combination of an upper and a lower series of roof-forming members, the members of each series being disposed in laterally spaced, parallel relation and having their side edges curled inwardly to form scroll-type interlocks, the interlocks of each series extending towards those of the other and having a slight space formed between each interlock and the body of the member to which each is joined, whereby said members may be longitudinally telescoped together, in staggered relation, and a pair of crossbars for said members having inwardly curled interlocks formed along their side edges, there being a space provided between said interlocks and the body of the bar to which they are joined, one of said bars being transversely secured to the bottom side of said members adjacent their upper ends with the interlocks of said bar projecting downwardly, and the other bar being telescopically connected to one of the interlocks of said first bar and disposed in substantially vertical position in a plane extending at substantially right angles to said members and said first bar, whereby a flashing strip is provided for said awning, the upper interlock of said second bar extending above said members and overlying a portion thereof.

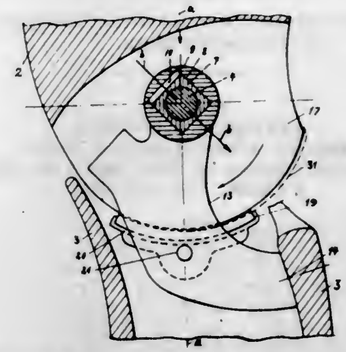
2,588,012
SPRING SUSPENSION
Joseph Robert Kirkpatrick, Euclid, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application October 10, 1947, Serial No. 779,020
1 Claim. (Cl. 248—18)



In combination, an annular mounting member formed from sheet metal to provide a cylindrical portion that is flanged inwardly at one end a relatively short distance, and is flared outwardly at the other end to provide an attaching flange, a cylindrical motor mounting ring of sheet metal having one of its ends telescoped into the cylindrical portion of the mounting member and secured thereto, the opposite end of said ring projecting a substantial distance beyond the plane of said attaching flange, lugs extending inwardly and thence in an axial direction from the edge of the ring remote from the mounting member, said lugs being spaced apart substantially equal distances about the ring, a full floating suspended unit including an electric motor arranged with its forward end within and in radially spaced relation to the aforesaid mounting member and ring, spring anchorage means carried by and spaced circumferentially about the motor in the radial plane of the aforesaid lugs and in the same plane as the center of gravity of said unit, each of said spring anchorage means being substantially midway between adjacent ones of said lugs, helical tension springs arranged in pairs with the adjacent ends of the springs of each pair secured to the same one of the spring anchorage means and their opposite ends connected to the adjacent lugs, and an annular spring cover having a cylindrical end fitting over and detachably connected

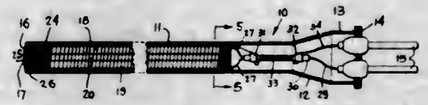
to the end of the spring mounting ring that is provided with said lugs, the end of said spring casing remote from said ring being turned inwardly and disposed in radially spaced relation to the motor.

2,588,013
ARTIFICIAL LEG
Felix Kleinekathöfer, Bad-Kreuznach, Germany
Application November 30, 1949, Serial No. 130,125
In Germany May 12, 1949
9 Claims. (Cl. 3—2)



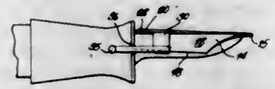
1. Artificial leg comprising a thigh, a shank, means for rotatably connecting the shank to the thigh, and braking means to check the motion of the thigh and shank relative to each other, said connecting means including bearings slidingly arranged in slanting slots in the thigh, a shaft supported by said bearings, and a pair of arms secured to and extending from the shank and rotatably engaging said shaft for the support of the thigh, said braking means provided both on said arms and on the thigh and adapted to be automatically moved into a wedge-like braking engagement with each other to prevent undesired bending of the leg when pressure is exerted on the thigh.

2,588,014
RESISTANCE THERMOMETER BULB
Knud J. Knudsen, Naugatuck, Conn., assignor to The Lewis Engineering Company, Naugatuck, Conn., a corporation of Connecticut
Application April 27, 1949, Serial No. 90,009
11 Claims. (Cl. 201—63)



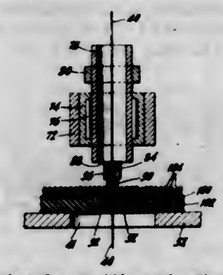
1. A rapid-response resistance thermometer bulb comprising a tubular metal casing adapted to be inserted into a well in a heated instrumentality; a coil of heat-responsive wire disposed within the casing adjacent the inner walls thereof, the distance between the coil convolutions and the inside of the casing being of a minute order to promote an efficient transfer of heat; means, including a longitudinally-split metal tube on which the coil is wound, for supporting the coil in the casing in said closely-spaced relationship to the inner casing walls, said tube being biased to maintain the coil convolutions taut; and heat-resistant means for electrically insulating the coil from the casing.

2,588,015
PEN
Herman Kochendoerffer, New Rochelle, N. Y., assignor of one-third to M. G. Underhill, Tuckahoe, and one-third to Charles Sutherland, Yonkers, N. Y.
Application April 14, 1948, Serial No. 20,973
4 Claims. (Cl. 120—109)



2. A pen having two points separated by a capillary slit and capable of being flexed apart, a third point overlying and biased toward said slit and of such width as to be admitted between said two points when they are flexed, the sides of said third point forming capillary slits with the sides of the said two points in the writing position of the third point.

2,588,016
MACHINE FOR CUTTING TEXTILES
Russell T. Koroiyshun, Derby, and Francis J. Sullivan, Ansonia, Conn., assignors to Sidney Blumenthal & Company, Inc., New York, N. Y., a corporation of New York
Application January 27, 1950, Serial No. 140,802
10 Claims. (Cl. 164—35)

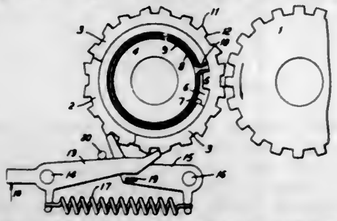


1. In a device for cutting sheet material, a bed, a band saw having a frame and a flexible blade disposed substantially at right angles to said bed, means for moving a length of sheet material along said bed in a substantially straight-line path of travel, a blade guiding device including a member having a slot therein through which said blade is freely threaded, and means for enabling said blade guiding device to move in directions generally transverse to the direction of movement of said sheet material to deflect said blade and cause said blade to cut said material along a line having portions which are not parallel with the path of travel of said sheet material relative to said bed.

2,588,017
TORQUE TRANSMITTING DEVICE
James Last, London, England, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 5, 1945, Serial No. 614,486
In Great Britain February 26, 1945
13 Claims. (Cl. 74—414)
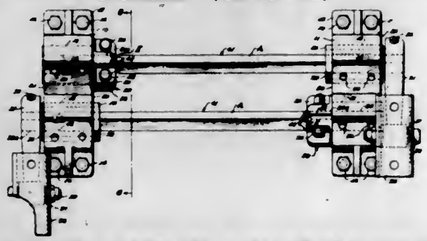
1. A torque transmitting means comprising a driving member in the form of a gear wheel; a driven member comprising a primary wheel in the form of a toothed wheel having teeth cut away to shorten them radially in such manner that in certain angular positions of said primary wheel its teeth are just clear of the teeth of the driving wheel but in other angular positions are

engaged with the teeth of the driving wheel, and an auxiliary toothed element attached to said primary wheel and pivotally movable relatively thereto from a drive-interrupting to a drive-receiving position, the auxiliary element being free of the teeth of the driving wheel in the drive-interrupting position but, in the drive-receiving position, presenting teeth adapted to engage with



the teeth of the drive wheel in those angular positions of the primary wheel in which the teeth of the primary wheel are clear of the teeth of the driving wheel; and means for selectively moving said auxiliary toothed element relative to said primary wheel from a drive-interrupting position to a drive-receiving position and from a drive-receiving position to a drive interrupting position.

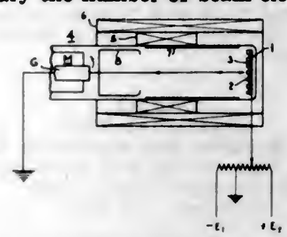
2,588,018
REACTOR ASSEMBLY
Carl F. Lauenstein, Indianapolis, Ind., assignor to Link-Belt Company, a corporation of Illinois
Application March 14, 1950, Serial No. 149,530
9 Claims. (Cl. 267—1)



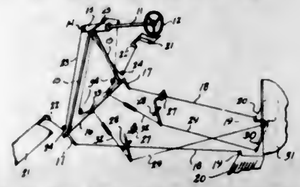
1. A device of the type described, comprising housing means, a bushing adjustably mounted in said housing means, an arm mounted on said housing means for pivotal movement relative thereto, said bushing and said arm each having an opening therethrough in axial alinement with the opening through the other, and a torsion bar of rectangular cross-section having longitudinally spaced portions clamped in said axially alined openings for frequently repeated twisting of its intermediate portion by the pivotal movement of said arm, said bar having stress relieving notches in all of its edges at the inner margins of said clamped portions.

2,588,019
MONOSCOPE TARGET FOR PICKUP TUBES
Harold B. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 5, 1946, Serial No. 674,451
4 Claims. (Cl. 313—66)

2. A television transmitting tube system comprising a cathode ray beam tube of the orthicon type having a cathode ray beam gun, and a monoscope target comprising a conducting plate, having a pattern on the gun side thereof with conducting areas in electrical contact with the plate and insulation areas between the conducting areas and a source of variable voltage connected between the conducting plate and cathode of said gun to vary the number of beam electrons landing on the conducting areas without varying those landing on the insulation areas.



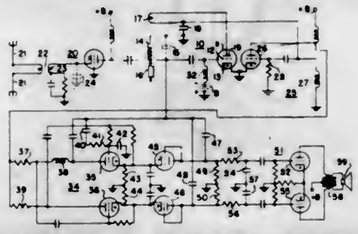
2,588,020
AIRPLANE CONTROL
Henry I. Libby, Hampden, Mass.
Application October 25, 1949, Serial No. 123,498
1 Claim. (Cl. 244—83)



In an aircraft having a rudder system and an aileron system, a hand actuated hollow shaft rotatably supported within said aircraft, means operatively connecting said hollow shaft and aileron system for actuating the latter in response to the rotary movement of the former, a foot actuable mechanism pivotally supported within said aircraft, means operatively connecting said actuable mechanism and said rudder system for actuating the latter in response to the pivotal movement of the former, and means operatively connected to said shaft and said mechanism for selectively coordinating the control of said rudder and aileron systems for actuation in response to the movement of either said shaft or said mechanism, said last named means comprising a cross bar circumposed about said hollow shaft and rotatably supported on the latter, cable means connecting said cross bar to said foot actuable mechanism, a keeper disposed interiorly of said hollow shaft and movable transversely therethrough into and out of engagement with said cross bar for locking the latter against rotation on said shaft to thereby coordinate the control of said rudder and aileron systems, and means operatively connected to said keeper for selectively effecting the movement of the latter into engagement with said cross bar, said last named means comprising a hand lever pivotally supported intermediate its ends on said hollow shaft and having one end projecting exteriorly of the latter and having the other end extending into said shaft, and a rod operatively connected between said other end of said lever and said keeper.

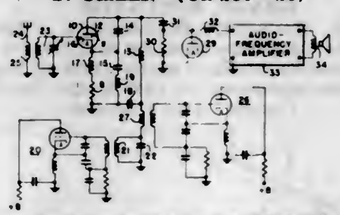
2,588,021
SUPERREGENERATIVE RECEIVER
Bernard D. Loughlin, Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application September 28, 1946, Serial No. 700,142
10 Claims. (Cl. 250—20)

1. A superregenerative receiver for receiving an angular-velocity-modulated wave signal having modulation components which vary the frequency of said wave signal over a predetermined frequency range comprising, a single regenerative circuit adapted to have said wave signal applied thereto and including a single regenerator tube, means for quenching said circuit during each of successive operating periods to provide superregeneration, means for causing said circuit to have throughout alternate operating periods a superregenerative frequency-response characteristic which increases with the



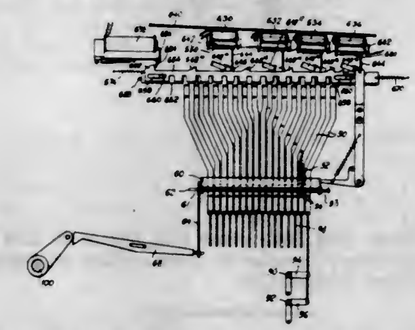
frequency deviation of said wave signal in one direction from a predetermined frequency in said range and to have throughout the intervening operating periods a superregenerative frequency-response characteristic which increases with the frequency deviation of said wave signal in the opposite direction from said predetermined frequency, and means responsive to the signal outputs of said circuit during said successive operating periods for deriving the modulation components of said wave signal.

2,588,022
SUPERREGENERATIVE SUPERHETERODYNE WAVE-SIGNAL RECEIVER
Bernard D. Loughlin, Lynbrook, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application November 28, 1947, Serial No. 788,570
17 Claims. (Cl. 250—20)



1. A superregenerative superheterodyne wave-signal receiver comprising: a superregenerative circuit including a regenerative oscillatory circuit having parameters so proportioned as to provide therefor a free oscillation frequency differing substantially from the frequency of a received wave signal to be applied thereto and including means for effecting alternate oscillation build-up and oscillation decay intervals in said regenerative oscillatory circuit, thereby to effect superregenerative amplification of wave signals having substantially said free oscillation frequency; means for applying said received wave signal to said regenerative oscillatory circuit; and heterodyne signal-supply means coupled to said regenerative oscillatory circuit and having parameters so proportioned as to apply to said regenerative oscillatory circuit a wave signal having a frequency differing from that of said received wave signal substantially by the value of said free oscillation frequency to derive in said regenerative oscillatory circuit from said received wave signal and said heterodyne wave signal a wave signal having substantially said free oscillation frequency, whereby said superregenerative circuit provides superregenerative amplification of said derived wave signal and thus effectively of said received wave signal.

2,588,023
BOOKKEEPING MACHINE
Elis Magnus Magnusson, Stockholm, Sweden, assignor to Aktiebolaget Ekonomiregister, Stockholm, Sweden, a corporation of Sweden
Application November 5, 1948, Serial No. 58,446
19 Claims. (Cl. 235—61.9)

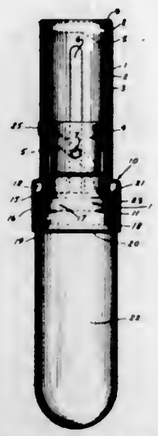


1. In a book-keeping machine, comprising a plurality of totalizers, selector means selectively to put combinations of at least two totalizers into operation simultaneously, each selector means corresponding to a fixed combination of totalizers different from the others, electrically operated means operating said selector means, each by operating a determined combination of two actuating means, printing mechanisms for registering the book-keeping operation performed on accounting forms inserted into said printing mechanisms, contact means on one or more of said printing mechanisms connected with said electrically operated actuating means and a source of electric current, contact operating means on said accounting forms distinctive for different accounting purposes of said forms and for actuating by means of said connecting means one of the combinations of two actuating means automatically to select the combination of totalizers and their sense of actuation determined by the accounting purpose of the form or forms inserted into the printing mechanism or mechanisms.

2,588,024
LIPSTICK HOLDER
Henrietta P. Manville, Woodbury, Conn., assignor to The Risdon Manufacturing Company, Naugatuck, Conn., a corporation of Connecticut
Application December 24, 1947, Serial No. 793,582
2 Claims. (Cl. 206—56)

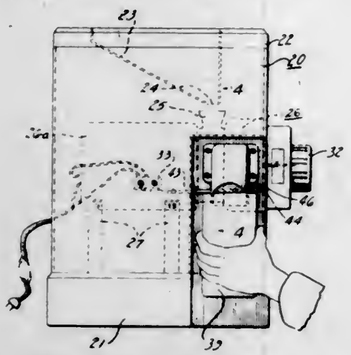
1. A stick holder, having an elevator, an exterior shell provided with an expanded lower portion, an inner shell including a base piece entirely contained within said exterior shell, one of said shells having a spiral slot and the other having a longitudinal slot, said elevator having a pin protruding into said slots, and said base piece being rotaable to project and retract the elevator, said base piece being within said expanded portion of the exterior shell and being tapered inwardly and downwardly and its greatest external diameter being less than the internal diameter of said expanded portion, and a cap for said holder, the open end of which has an external diameter less than the internal diameter of the expanded portion of the exterior

shell and an internal diameter greater than the smallest external diameter of the taper of said



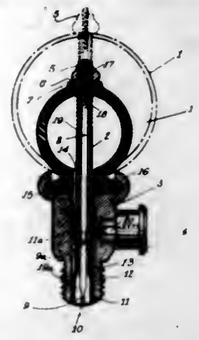
base piece, said base piece and the open and of said cap being circular in cross section to engage each other frictionally.

2,588,025
GRINDER
Edward Margolin, Philadelphia, Pa.
Application April 27, 1949, Serial No. 89,849
2 Claims. (Cl. 241—100)



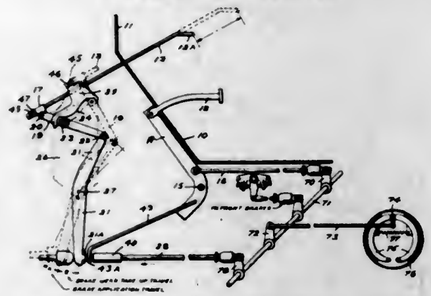
1. A coffee grinder including a housing, an electric motor operatively supported within said housing, a raw-materials-receiving hopper disposed generally within said housing, a grinder operatively connected to said motor within said housing, said grinder having an inlet passageway adapted to receive the raw materials from said hopper, a discharge nozzle including a discharge passageway extending from said grinder through and beyond said housing and terminating in a downwardly projecting spout spaced from a vertical surface of said housing, a switch operatively interposed in the electric circuit of said motor, a switch operating arm operatively connected to said switch and having a portion extending into the space between said vertical surface and said discharge nozzle beneath said discharge passageway and above the lower end of said spout to engage and be moved slightly upwardly by a portion of the upper edge of a bag surrounding the lower end of said spout, thereby to actuate said switch, said arm being disposed at all times wholly outside the bag during operative engagement therewith.

2,588,026
SELF-FEEDING LUBRICATOR
Emile Martin, Grenoble, France
Application June 29, 1948, Serial No. 35,891
4 Claims. (Cl. 184—14)



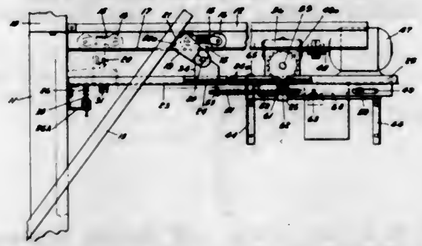
4. Lubricator comprising in combination an expansible lubricant reservoir, an outflow tube fixed to and communicating with the interior of said reservoir, a valve stem passing through a top opening in said reservoir wall, a nut on the projecting end of said stem, a closely wound wire coil extending through said reservoir and outflow tube encircling said valve stem with a clearance, windings of said coil in said reservoir being spaced to afford a passage for lubricant, one end of said coil being enlarged to close the gap between said coil and the outflow tube and being fixed to said valve stem, means for feeding to said reservoir lubricant under pressure, said stem being so dimensioned that expansion of said lubricant reservoir beyond a predetermined limit will pull the enlarged coil end into throttling position in front of said lubricant feeding means.

2,588,027
BRAKE ACTUATOR
Charles S. McCarthy, Birmingham, Mich., assignor to American Forging and Socket Company, Pontiac, Mich., a corporation of Michigan
Application September 26, 1949, Serial No. 117,787
7 Claims. (Cl. 188—106)



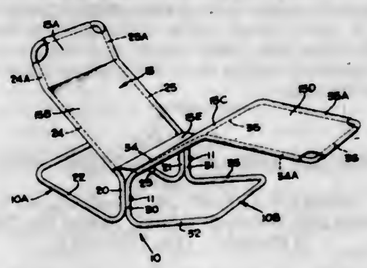
1. Motor vehicle brake mechanism including, in combination, brakes having brake linings subject to wear during use, foot operated mechanism for actuating said brakes, including a lever swingable through greater arcs to apply said brakes as the brake linings wear, hand operated brake mechanism for actuating said brakes including a lever swingable through the same arc at each application of the brakes, a pull rod movable by said last-mentioned lever, slack take-up means adjustably mounted on said pull rod, and means connected to and actuated by said first-mentioned lever for automatically adjusting the position of said take-up means in accordance with the extent of arcuate travel of said lever then required for application of the brakes through said foot operated mechanism.

2,588,028
ELECTRIC OVERHEAD DOOR OPERATING DEVICE
James N. McNinch, Sterling, Ill., assignor to Sterling Electronic Door Control Corporation, Sterling, Ill., a corporation of Illinois
Application August 2, 1950, Serial No. 177,279
5 Claims. (Cl. 268—59)



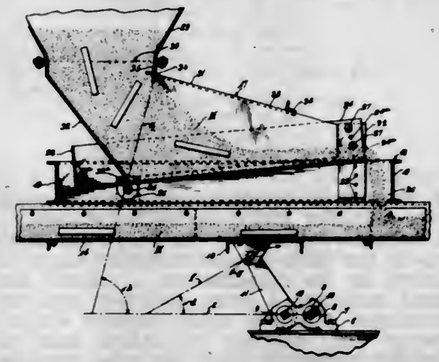
1. In combination with a structure having a door opening and door therefore with overhead movement, tracks for the support of a door during such movement, an operating track below and parallel with one of said first-named tracks, having a horizontal portion and a downwardly bent portion at the forward end, means for the support of the forward end of the operating track permitting a limited inward movement thereof, and means for actuating the same, an articulated, segmental member movable slidably in said last-named track, means for connecting said segmental member with the door supporting means, to cause a back and forth movement thereof, and an electric motor operatively connected with said segmental member.

2,588,029
LOUNGING CHAIR
Charles W. Morris, Los Angeles, Calif., assignor to Doak Aircraft Co., Inc., Torrance, Calif., a corporation of California
Application November 17, 1949, Serial No. 127,958
8 Claims. (Cl. 155—105)



1. A chair comprising a pair of individual spaced frame sections, one of said sections comprising: Tubing bent to form a pair of vertical leg members extending downwardly and joined with contiguous rearwardly and upwardly inclined foot members, opposite rear ends of said foot members being joined, the upper ends of said leg members being contiguous with and joined to parallel and rearwardly upwardly extending back members, the upper rear ends of said back members being inclined further upwardly than the intermediate part of said back members and joined together to form a head section; the other one of said pair of frame sections comprising: tubing bent to form a pair of vertical leg members extending downwardly and joined with contiguous forwardly and upwardly inclined foot members, opposite forward ends of said foot members being joined, the upper ends of said leg members being contiguous with and joined to parallel and forwardly upwardly extending seat members, the upper forward ends of said seat members being inclined downwardly with respect to the intermediate part of said seat members and joined together to form leg rest members; the respective adjacent vertical legs of said one and other pair of frame sections being fastened together by fastening means, and said head, back, seat and leg rest portions supporting a fabric-like material.

2,588,030
FEEDER FOR OSCILLATING CONVEYERS
Albert Musschoot, Park Ridge, and Henry W. Regensburger, Chicago, Ill., assignors to Link-Belt Company, a corporation of Illinois
Application December 8, 1948, Serial No. 64,152
4 Claims. (Cl. 198—53)

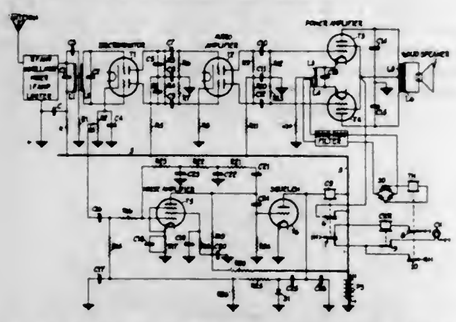


1. A device of the type described, comprising of the combination with a conveyor trough mounted for oscillatory movement through an acurate path, of a stationary hopper having a large opening, arranged at a greater acute angle with respect to said trough than the line of tangency through the midpoint of its arcuate path through which material from the hopper may discharge at a rapid rate, a flat bottomed chute having an open discharge end above and extending transversely across said conveyor trough, for receiving material from and accumulating it across the hopper opening to retard the rate of discharge through the opening, said chute being mounted on said trough for oscillatory movement therewith to effect discharge of the material from the discharge end of the chute into the trough at a rate below that at which the material can discharge through the hopper opening, and means for varying the rate of discharge of material from the open end of the chute into the trough.

2,588,031
RADIO COMMUNICATION SYSTEM
John C. O'Brien and Henry C. Sibley, Jr., Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application November 1, 1947, Serial No. 782,484
9 Claims. (Cl. 250—20)

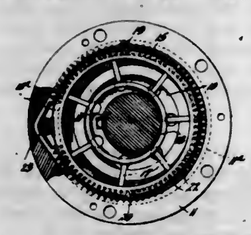
2. In a radio receiving organization including a discriminator comprising in combination, a

tuned tank circuit, two electron tubes having control grids coupled to said tank circuit, a balanced out-put circuit for controlling a push-pull amplifier in accordance with the difference in the out-put of the two tubes, a single cathode resistor included in series with the cathodes of said two tubes in multiple and conducting the combined plate output current of said tubes changing with amplitude of the frequency modulated signal supplied to said discriminator, said resistor also being in the grid circuits of the discriminator and said resistor being of such a value as to bias said tubes to substantially cut-off for a predetermined amplitude level of said signal, a noise amplifier tube having a control grid supplied with voltage variations appearing across said cathode biasing resistor, and circuit means controlled by the out-put of said amplifier tube for muting said receiver organization when the noise voltages supplied by said cathode resistor rise above a predetermined value.



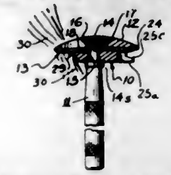
5. In a radio receiving organization having a power amplifier giving an audio frequency out-put in accordance with the frequency modulations of the radio frequency carrier signal being received by the organization, a squelch control means including a noise amplifier governed in accordance with the noise voltages within the receiver and effective to render said power amplifier ineffective when the noise voltages are of substantial value, and circuit means associated with the out-put of said noise amplifier to cause a negative bias feed-back for said noise amplifier each time the noise voltages rise but not when the noise voltages decrease to thereby provide a delay in the squelch operation during signals of varying amplitude.

2,588,032
ROTARY PUMP
James H. O'Brien, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 10, 1947, Serial No. 785,164
3 Claims. (Cl. 103—120)



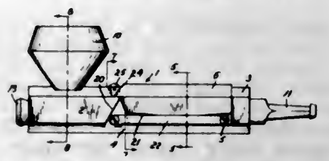
1. In a rotary pump, in combination, a rotor, vanes carried by the rotor, a cylinder encircling the rotor and engaging the outer ends of the vanes, a casing defining a chamber having a cylindrical wall concentric with the rotor and of greater diameter than the cylinder so that the cylinder is shiftable bodily in said chamber, and an element completely encircling the cylinder and connected to the casing at one point, said element contacting the surface of the cylinder at closely spaced points throughout substantially the entire circumference of the cylinder, a portion of said element being resilient, whereby the cylinder is normally urged toward the chamber wall.

2,588,033
COMBINATION RAZOR AND HAIR TRIMMER
James A. O'Gatty, Los Angeles, Calif.
Application May 28, 1949, Serial No. 96,030
2 Claims. (Cl. 30—31)



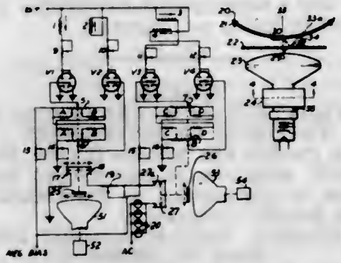
1. In a hair cutting and shaving implement, an approximately rectangular guard plate having a length considerably greater than its breadth and having a hole through its mid-length portion considerably spaced away from both its long sides, a handle member consisting of a short rod having a diametrically reduced end portion forming a stem with a resulting clamping shoulder at the juncture of said reduced portion with the remainder of the handle, said reduced portion being screw-threaded and long enough to project considerably through said hole in said guard plate when one face of the latter is abutted against said shoulder, and a cover plate usable to clamp a conventional double-edged razor blade between itself and said guard plate, said cover plate having through its mid-length portion two transversely spaced apart screw-threaded bores to have selectively screwed into them the aforesaid stem of said handle after said stem has been projected through both the hole in the guard plate and the cut-out part of a razor blade, the edge portions of said two plates being so contoured and positioned that in the assembled implement they may be used to perform a plurality of hair cutting or shaving operations which vary according to which of the two holes in said cover plate has screwed into it said stem of said handle, both of said cover plate adjustments being effected while the razor blade and guard plate remain undisturbed in their normal position relative to the handle.

2,588,034
COMBINED TOBACCO SMOKING PIPE AND IGNITER
George F. O'Neill, Jr., Yonkers, N. Y.
Application October 3, 1946, Serial No. 700,903
8 Claims. (Cl. 131—185)



1. A combined tobacco smoking pipe and igniter comprising a pipe having a tobacco bowl, a mouthpiece, and a stem connecting and spacing the bowl and mouthpiece, said stem being provided with a smoke duct communicating with the bowl and mouthpiece and with an upper seat face located between the bowl and mouthpiece, a pyrophoric type igniter formed to normally rest on said seat face parallel with the stem so as to form in such position a component part of the stem, said igniter having flame producing means at its forward end, and means pivotally connecting the igniter with the pipe to adapt it to be swung toward and from said seat face and to be disposed to bring its igniting end above the pipe bowl.

2,588,035
ELECTRONIC INDICATOR AND VIEWING MEANS FOR TWO VARIABLES
William T. O'Neil, Glendale, Calif., assignor to Gilfillan Bros., Inc., Los Angeles County, Calif., a corporation of California
Application December 16, 1946, Serial No. 716,535
14 Claims. (Cl. 343—10)

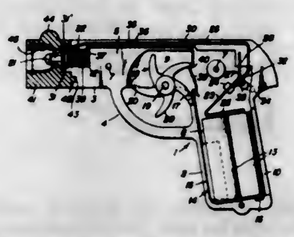


3. Means for viewing the position of an indicating element which moves in a curved surface, comprising a curved transparent plate opposed to the curved surface in spaced relation, the curvature at each point of the plate being approximately equal and opposite to the curvature at the corresponding opposing point of the curved surface, a plane semi-transparent mirror between and approximately equidistant from the plate and the curved surface, scale indications on the plate, and illuminating means for the scale indications.

8. In a system adapted for electronic indication of a variable quantity and including a cathode ray tube having a fluorescent screen and ray deflection means, and means for generating a voltage proportional to the variable quantity, the said ray deflection means utilizing the variable voltage for proportionately deflecting the cathode ray; means for indicating whether the variable quantity exceeds a predetermined limit and acting independently of the presence of the cathode ray image on the screen, said means comprising a plate carrying scale indications in optical superposition upon the tube screen in positions corresponding to predetermined values of the variable quantity, illuminant means for the scale indications, illuminant control means and means for actuating the illuminant control means in definitely predetermined relation to changes in the variable quantity to disable the said illuminant means when the variable quantity exceeds the predetermined limit.

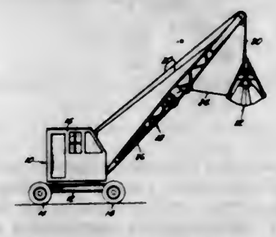
2,588,036
TOY PISTOL
Wilbur D. O'Quinn, Wilmington, N. C., assignor of one-half to J. H. Ferguson, Wilmington, N. C.
Application December 5, 1947, Serial No. 789,792
2 Claims. (Cl. 46—175)

1. In a toy pistol of the type having a hollow pistol grip and barrel, means to produce noise and to electrically illuminate said barrel internally and intermittently at the muzzle end thereof comprising a flasher switch consisting of an electrically conductive leaf spring in said hand grip secured to and normally reacting resiliently into engagement with the trigger side of said grip and flexible away from said side, a star wheel trigger made of insulation material journaled in said barrel and rotatable in one direction to allow each arm of said star wheel successively to



intermittently engage and flex said spring and release the same, said spring when released reacting into normal engagement with said side with a snap action to produce a loud noise, and a second electrically conductive leaf spring resiliently mounted in said barrel and contacted by the first named spring when flexed to close the switch, said second spring having means thereon wipingly engaging an arm of said trigger and preventing reverse rotation of said trigger.

2,588,037
TAGLINE MECHANISM
Philo A. Orton, Sr., Lincolnwood, Ill., assignor to Orton Crane & Shovel Company, Chicago, Ill., a corporation of Illinois
Application September 30, 1950, Serial No. 187,721
12 Claims. (Cl. 242—47.5)



1. A tagline tensioning device in combination with a crane boom having a load suspended from the end thereof, and a tagline adapted to be secured to said load; said tagline tensioning device comprising a cylinder, a piston within said cylinder, means for applying a pressurized fluid against the piston, means connecting said piston to said tagline, whereby a tension is maintained in said tagline, and means for multiplying the motion of the piston, whereby a relatively large range of motion of the tagline is accommodated by a relatively small range of motion of the piston.

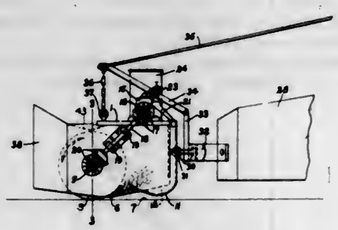
2,588,038
AIR ACTUATED CHANCE DEVICE
Leonard C. Pagenhardt, Roanoke, Va.
Application March 13, 1950, Serial No. 149,372
2 Claims. (Cl. 273—143)

1. An amusement device comprising a hollow body member having a passageway extending therethrough with opposite open ends, a shaft, means mounting said shaft longitudinally within the passageway, a plurality of wheels hav-

ing apertured hubs rotatably mounted on said shaft, said hubs having rounded lateral contact surfaces, inclined blades extending radially from said hubs for rotation of the wheels in response to an air current sent through said passageway, each wheel having a rim disposed at the outer ends of the radial blades, characters on the outer periphery of each rim, means in said body member permitting visibility of desired portions of said outer peripheries and the characters thereon, a plurality of magnetically susceptible metallic members spaced about the circumference of each wheel, and magnetic means in said body member for attracting said metallic members to stop rotation of said wheels when said air current is interrupted.



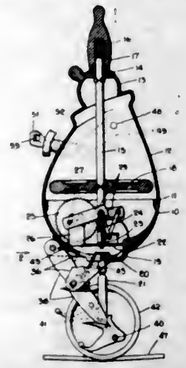
2,588,039
SNOW REMOVAL APPARATUS
John Pepi, Quincy, Mass.
Application January 5, 1950, Serial No. 136,929
7 Claims. (Cl. 37—12)



1. An apparatus for removing snow from highways, airport runways, etc., comprising a housing open at the front end and also at the bottom, said housing having at its rear end a snow melting chamber, a shaft journaled in the housing, a plurality of housing-supporting disks loosely mounted on the shaft and by which the housing is supported for forward movement over a snow-covered roadway, means to move the housing forwardly, a plurality of saw-toothed snow pulverizing disks fast on said shaft and interspersed with the housing supporting disks, means to rotate said shaft rapidly whereby said snow pulverizing disks pulverize the snow and throw it in powdered form into said snow melting chamber, and means to maintain said chamber at a high temperature.

2,588,040
GYROSCOPIC TOY
Wilfredo Perez, New York, N. Y.
Application April 11, 1950, Serial No. 155,281
17 Claims. (Cl. 46—22)

1. A toy of the character described comprising a casing, means supporting a gyroscopic element for rotation in the casing, a crank type drive mechanism in the casing and in operative engagement with said element, a pair of leg members detachable with respect to the casing and coupled with said drive mechanism to be actuated

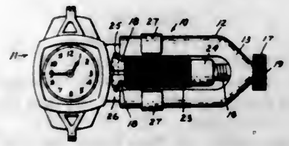


thereby, and a body portion detachable with the casing and enclosing said element.

2,588,041
SEPARATION OF METAL VALUES IN FLUORIDE COMPOSITIONS
Melvin A. Perkins and Monroe Couper, Wilmington, Del., assignors to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application April 5, 1946, Serial No. 659,855
3 Claims. (Cl. 23—88)

1. A method of recovering the valuable components of a solid sludge which contains potassium, nickel, iron and fluorine values and which is produced in the electrolysis of acid potassium fluoride when using nickel anodes in steel electrolytic chambers which comprises treating said solid sludge with sufficient ammonium hydroxide to dissolve the nickel and potassium values thereof and to precipitate the iron values thereof in the form of a hydroxide, separating the precipitated iron hydroxide from the ammonium hydroxide solution of nickel and potassium salts, concentrating said ammonium hydroxide solution to cause precipitation of the nickel values as a nickel salt containing fluorine and potassium, separating said precipitated nickel salt from said concentrated ammonium hydroxide solution, evaporating said concentrated solution to dryness to obtain a dried residue containing ammonium fluoride and potassium fluoride, heating said dried residue at about 300° C. to cause the ammonium fluoride to sublime, recovering the ammonium fluoride which sublimes by cooling, and recovering the ammonia-free potassium fluoride left after sublimation.

2,588,042
WRIST WATCH WINDING DEVICE
Edward W. Poltrock, Chicago, Ill.
Application December 20, 1950, Serial No. 201,819
3 Claims. (Cl. 81—7.5)



1. A wrist watch winding device comprising a yoke, a shaft journaled through the bight of said yoke, knurled handle means secured on said shaft externally of said yoke, said shaft extending axially of said yoke, said shaft having a threaded portion within said yoke at said bight end thereof, the other end of said shaft beyond said threaded portion being divided into a plurality of spaced-apart resilient segmental portions, said segmental portions terminating in outwardly flaring internally recessed bowl portions of a size to fit over and clamp about the crown of a wrist watch to be wound, and means for moving said bowl segment portions to clamping position and for rotating the same when in clamped position, said means comprising an externally knurled sleeve within said yoke about said shaft, said sleeve having an internal thread complementary to the thread on said shaft, and an unthreaded portion within said sleeve at the other end thereof engaging said outwardly flaring surfaces of said bowl segments to move said bowl segments to clamping position when said sleeve is rotated on said shaft.

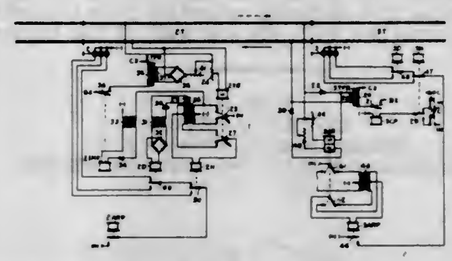
2,588,043
COMBINED PUNCH AND CUTTER
Irving Rabinowitz and Mildred S. Rabinowitz, Brooklyn, N. Y.
Application December 7, 1948, Serial No. 63,976
1 Claim. (Cl. 164—14)



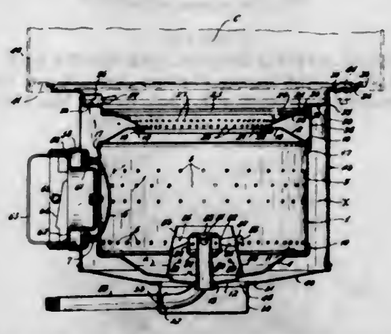
A tool of the character described comprising, a substantially U-shaped body of flat spring stock provided with a springy loop portion at one end and two spaced legs extending therefrom, said legs normally tending to spring apart, means for limiting the extent of separation of the legs, one of the legs being provided with a slot extending partly across it, said leg also having a hole, the second leg having a laterally bent end forming a cutting blade adapted to enter the slot, the second leg also having a stud inwardly from the blade and adapted to enter the hole whereby a strip of flat, tape-like material located between the legs will be simultaneously transversely severed and perforated, the loop portion adapted to confine a roll of flat, tape-like material within it and from which the tape may be drawn and moved in a direction co-extensive with the length of the legs of the tool.

2,588,044
RECTIFIED ALTERNATING CURRENT TYPE CODED TRACK CIRCUIT SIGNALING SYSTEM
Wade H. Reichard, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application October 19, 1945, Serial No. 623,220
9 Claims. (Cl. 246—34)

7. In a coded track circuit for a section of railway track, a source of alternating current at each end of the section, a code transmitter at each end of the section and each having contacts, a step-down transformer located at each end of the track section and each having primary and secondary windings, circuit means at each end of the section including a rectifier for permanently connecting the secondary winding of the associated transformer across the track rails at its end of the track section, said connections at opposite ends being of opposite polarity, circuit means at one end of the track section including contacts of the associated transmitter for intermittently connecting the source of alternating current at that end to the primary winding of the associated transformer, an approach relay at said one end connected so as to be responsive only to pulses in the track rails between successive energizations of said primary winding, a polarized track relay at the other end of said section directly and permanently connected across the track rails but with its polar connections being opposite to the polarity of the connections of the associated rectifier at that end, and circuit means controlled by said polarized track relay following each of its actuations for momentarily energizing said code transmitter at that end for momentarily connecting the associated source of alternating current to the primary winding of said transformer at that end, whereby both said relays are intermittently energized by code pulses of unidirectional current of relatively low potential transmitted from the opposite end of the section as a result of the control of relatively higher alternating current potentials by said transmitter contacts.



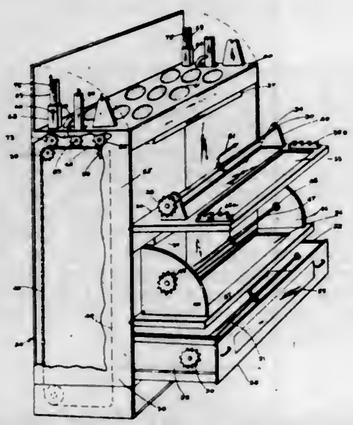
2,588,045
LIQUID FUEL BURNING UNIT OF THE BOWL OR POT TYPE
Marc Resek, Cleveland Heights, John A. Dahlstrom, Bay Village, and August Bolz, Chagrin Falls, Ohio, assignors to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application December 1, 1947, Serial No. 789,052
8 Claims. (Cl. 158—91)



1. In a liquid fuel burner, the combination of a burner bowl having a top wall provided with a relatively large opening, a throat structure having a similar opening registering with that of said top wall and joined about its inner edge to the corresponding edge of the top wall, the throat structure being upwardly divergent from its con-

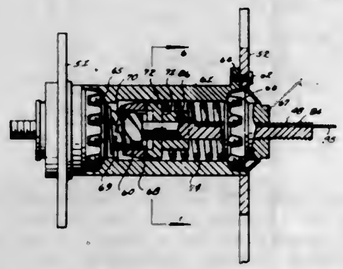
nection with said top wall and having a vertical shoulder in substantially vertical alignment with the periphery of the bowl, a second similar shoulder spaced radially outwardly from the first mentioned shoulder, a plurality of tie bars having their lower ends rigidly secured to the top peripheral portion of the burner bowl and their upper ends similarly secured to the first mentioned shoulder of the throat structure, adjacent bars being spaced a considerable distance apart circumferentially of the burner bowl, and a burner bowl housing enclosing the burner bowl and having its upper edge engaged with and welded to the second shoulder of the throat structure, the throat structure having circumferential rows of closely spaced air holes adjacent its connection with the top wall of the burner bowl.

2,588,046
COOKING DEVICE
Richard Ridgely, Bayside, N. Y.
Application May 27, 1946, Serial No. 672,507
5 Claims. (Cl. 99—421)



2. In a cooking device, a cabinet, a door for said cabinet, driving means in said cabinet, a spit member, spit supporting means on said door, spit rotating means connectable to said driving means when the door is closed, and heat reflecting means on the inside of said door.

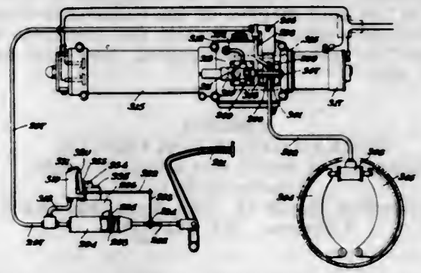
2,588,047
HIGH-SPEED DRIVE FOR BICYCLES
Ivo J. Riga and James P. Riga, Jonesboro, Ark.
Application September 9, 1949, Serial No. 114,802
2 Claims. (Cl. 280—238)



1. The combination with a bicycle including a frame, a rear axle supported in said frame adjacent one end thereof, a hub carrying a driven sprocket adjacent one end thereof and rotatably supported on said axle, a first driving sprocket wheel positioned forwardly of and spaced from said hub and rotatably supported in said frame, and a coaster brake positioned within and operatively connected to said hub, of a high speed drive operatively connected to said hub and said first driving sprocket wheel, said drive comprising a horizontally disposed shaft positioned above and spaced from said first driving sprocket wheel and fixedly carried by said frame, an idler sprocket wheel rotatably supported on said shaft adjacent to and spaced inwardly from one end thereof and drivingly connected with said first driving sprocket wheel, a second driving sprocket wheel rotatably supported on said shaft adjacent to and spaced inwardly from the other end thereof, an open ended hollow shell circumposed about the portion of said shaft intermediate said idler sprocket wheel and said second driving sprocket wheel and having one of its open ends fixedly secured to said second driving sprocket wheel for rotation therewith, an externally threaded screw element loosely supported on the portion of said shaft within said shell adjacent to said idler sprocket wheel and fixedly secured to the latter wheel, a clutch element positioned within said shell and rotatably mounted on said screw element for movement longitudinally into and out of frictional engagement with the interior wall of said shell adjacent to its other open end thereof, a collar member positioned within said shell adjacent said clutch element and slidably supported on said shaft, a second driven sprocket on said hub adjacent the other end thereof and drivingly connected with said second driving sprocket wheel, a first sprocket chain trained over and in meshing engagement with said first driving sprocket wheel, said idler sprocket wheel and said first named driven sprocket, a second sprocket chain trained over and in meshing engagement with said second driving sprocket wheel and said second driven sprocket, and hand actuable means positioned exteriorly of said shell and pivotally mounted on said frame and having one end engageable with said collar member for effecting the movement of said collar member into frictional engagement with said clutch element.

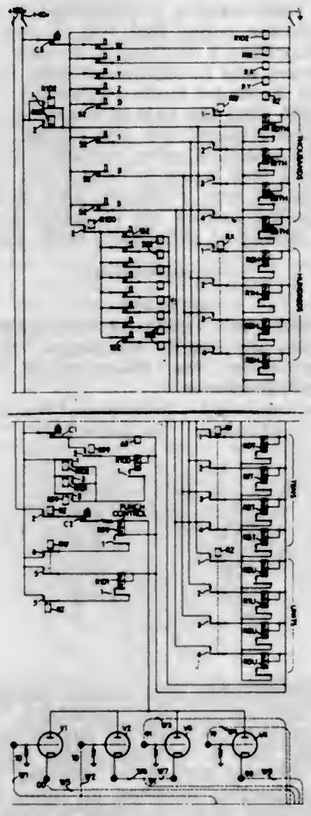
2,588,048
PRESSURE CONVERTER SYSTEM AND APPARATUS THEREFOR
Edward A. Rockwell, Shaker Heights, Ohio, assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut
Application February 17, 1943, Serial No. 476,248, now Patent No. 2,410,750, dated November 5, 1946, which is a division of application Serial No. 312,356, January 4, 1940, now Patent No. 2,331,800, dated October 12, 1943. Divided and this application November 28, 1945, Serial No. 631,263. In Canada December 30, 1940
13 Claims. (Cl. 60—54.5)

1. In combination, a hydraulic connection, to contain a pressure liquid, adapted to be connected to a part to be operated, means for accumulating intermittently a body of liquid under a substantially uniform superatmospheric pressure and a valve means, including a cylindrical valve member having a passageway therethrough, actuated by the pressure of said pressure liquid, upon the increase in pressure in said connection, for cutting off the pressure liquid from said hydraulic connection to the part to be operated and delivering the accumulated pressure to said part, through which valve means both said pressure liquid and the accumulated

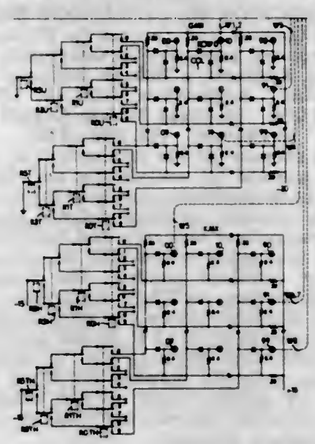


pressure liquid pass by means of said passageway.

2,588,049
COMPARING DEVICE
Russell A. Rowley, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 28, 1950, Serial No. 192,749
4 Claims. (Cl. 235—61.7)

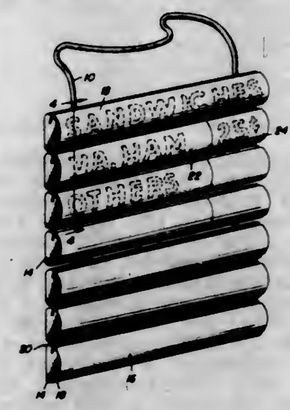


1. In a comparing device, a plurality of electronic tubes each having at least three electrodes, a source of voltage, means to provide a common connection between one point of said voltage source and a first electrode of each of said tubes, said connection including an agreement indicating device adapted to be operated by current passing through said connection and any one of said tubes, at least two matrices each comprising a plurality of plug hubs, a changeable plugwire connection between the second electrode of each tube and a selected plug hub of one of said matrices, a changeable plugwire connection between the third electrode of each tube and a selected plug hub of the other one of said matrices, normal connections between said voltage source and the plug hubs of one of said matrices adapted to establish a normal voltage at said plug hubs, normal connections between said voltage source and the plug hubs of the other one of said matrices adapted to establish a normal voltage



on the latter plug hubs, said normal voltages being such that the tubes whose second and third electrodes are connected to said plug hubs are non-conductive, means for selectively shifting the voltage on any one of the hubs of said first matrix in a positive direction, means for selectively shifting the voltage on any one of the hubs of said second matrix in a negative direction, the combined shifts in opposite directions, when applied to electrodes of a single tube, being sufficient to render the tube conductive and operate said agreement device, but the shifts individually being insufficient to render a tube conductive.

2,588,050
DISPLAY SIGN
Stephen W. Rutherford, West Des Moines, Iowa
Application March 12, 1948, Serial No. 14,533
2 Claims. (Cl. 40—64)



2. A display device comprising a plurality of juxtaposed individual supports having substantially longitudinally parallel laterally converging

slots formed therein and opening through the ends of said supports, indicia bearing plates having converging substantially parallel sides seated in and slidable through the ends of said slots, a single flexible member secured to both ends of said supports maintaining said supports juxtaposed, said supports being formed with an arcuate surface, and said plates having a complemental front surface disposed therein.

2,588,051

PRODUCTION OF CELLULOSE ESTERS

Eric P. Sharman and Donald L. Wilson, Coventry, England, assignors to Courtaulds Limited, London, England, a British company

No Drawing. Application July 10, 1950, Serial No. 173,012. In Great Britain August 9, 1949

2 Claims. (Cl. 260—230)

1. In a process for the production of secondary cellulose acetate by acetylating cellulose in the presence of methylene chloride to form a cellulose triacetate solution containing from 50 to 60 per cent of methylene chloride and hydrolysing the cellulose triacetate while still in solution to a secondary cellulose acetate, the improvement which comprises distilling methylene chloride from the solution before the hydrolysis is completed to remove from 45 to 60 per cent by weight of the methylene chloride and to decrease the methylene chloride content to from 30 to 45 per cent by weight based on the weight of the original solution, whereby the time for hydrolysis is substantially reduced.

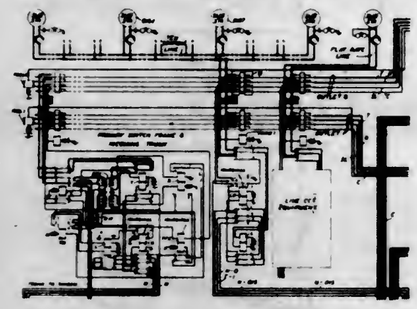
2,588,052

CONTROL CIRCUIT FOR TELEPHONE SYSTEMS

Judson O'D. Shepherd, Atlanta, Ga., assignor to American Telephone and Telegraph Company, a corporation of New York

Original application May 5, 1943, Serial No. 485,690. Divided and this application November 30, 1949, Serial No. 130,102

4 Claims. (Cl. 179—22)



1. In an automatic telephone system, a crossbar switch having a hold magnet for each vertical element thereof, lines individual to said switch disposed upon the vertical elements of said switch, a line group circuit common to said lines comprising a register, conductors between the hold magnets of said switch and said register, means responsive to one of said lines when calling for operating said register thereby to establish a path to the hold magnet of the calling line, means for establishing a connection between a calling line and a called line through said switch, other means responsive to said calling line for operating said connection establishing means to extend said calling line through said switch and to complete the circuit of the hold magnet of said calling line through said register, and other means in said connection establishing means for reoperating said register to complete a circuit path to the hold magnet of the called line thereby to operate said hold magnet and complete the connection between said calling line and said called line.

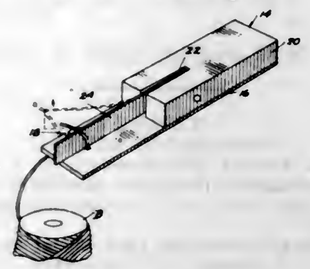
2,588,053

THREAD GUIDE FOR CREELS

Chadwick P. Smith and Alfred P. Smith, Charlotte, N. C.

Application March 11, 1949, Serial No. 80,942

4 Claims. (Cl. 242—157)



1. In a creel having a plurality of vertically mounted thread cones tied end to end, guiding means comprising a stationary thread guide positioned above and in alignment with the axis of a first cone, a second guide positioned above and in alignment with the axis of a second cone and being threaded therefrom, the thread from said first and said second cones continuously passing through said first guide as said cones are alternately emptied and replaced, and said second guide including means for releasing the thread when the thread is exhausted from said second cone.

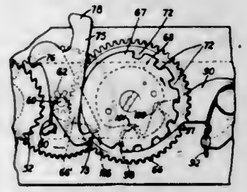
2,588,054

FILM WINDING CONTROL FOR CAMERAS

Clarence Elwood Smith, Rochester, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware

Application July 25, 1949, Serial No. 106,628

3 Claims. (Cl. 242—71)



1. A photographic film holder comprising a carriage, two supporting members rotatably mounted on the carriage for supporting a film supply spool and a take-up spool, respectively, manually operable means for rotating the take-up spool supporting member, an index plate rotatably mounted on the carriage, a train of gearing, including a drive pinion and an interrupted gear meshing therewith, for rotating the index plate upon rotation of said manually operable means, said index plate being provided with a plurality of notches extending part-way only around its periphery, a locking member movably mounted on the carriage and adapted to engage in the notches of the plate to lock the plate against rotation, a spring for constantly urging the locking member into locking position, said member being manually movable to disengaged position, said interrupted gear being so disposed angularly that its interrupted portion moves into registry with the drive pinion when the film has been wound far enough to bring the last exposure area into position for exposure, means for holding the locking member disengaged when it is moved out of locking position thereafter, a manually rotatable indicator dial connected to said index plate for rotating the index plate, when the locking member is disengaged therefrom, and spring-actuated means for urging the toothed part of the interrupted gear back into mesh with the drive pinion, when said locking member is disengaged and after said index plate has been rotated through a predetermined angle.

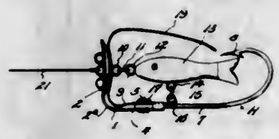
2,588,055

ARTIFICIAL LURE

Spurgeon O. Smith, Columbus, Ohio

Application August 13, 1949, Serial No. 110,214

2 Claims. (Cl. 43—42.13)



1. An artificial lure comprising a plate having an upstanding forwardly disposed head portion and an angularly disposed and rearwardly extending mounting extension, a hook member having a shank formed at one end with a pointed and barbed terminal and at its other with an eye, a fastening pin passing through said eye and joining said hook member with the rearward extension of said plate, a wire member connected with said plate by said pin, said wire member including a looped forward portion disposed at the rear of the head portion of said plate and extending longitudinally above said mounting extension, said wire member terminating in a rearwardly extending resilient finger having resiliently movable registry with the pointed and barbed terminal of said hook member, a buoyant body shaped to simulate the appearance of a small fish disposed within the confines of said plate, hook member and resilient finger, and means flexibly linking said body at two points with said wire member and providing for limited wiggling movement of said body within the confines of said plate, hook member and resilient finger.

2,588,056

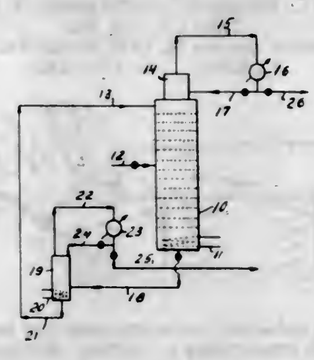
SEPARATION OF PROPENE AND PROPANE BY EXTRACTIVE DISTILLATION

John W. Teter, Chicago, and Edwin W. Shand, Homewood, Ill., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application September 30, 1947, Serial No. 776,941

2 Claims. (Cl. 202—39.5)

1. The method of separating propene and propane which comprises extractively distilling the propene-propane mixture with a relatively less volatile multicomponent solvent which comprises, as a first component, acetonitrile, and, as a second component, a compound selected from the group consisting of acrylonitrile and monochloroacetonitrile, said first and second components being present in about equal volume proportions, removing a vapor fraction relatively



rich in propane, removing a liquid fraction comprising propene and solvent.

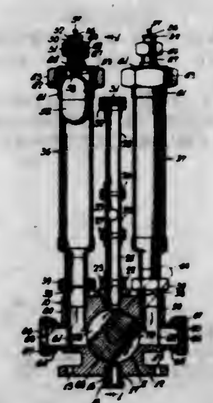
2,588,057

LIQUID MEASURING APPARATUS

Norman M. Thomas, Medford Lakes, N. J., assignor to Joe Lowe Corporation, New York, N. Y., a corporation of Delaware

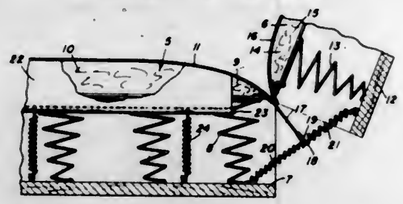
Application April 30, 1946, Serial No. 666,151

2 Claims. (Cl. 222—69)



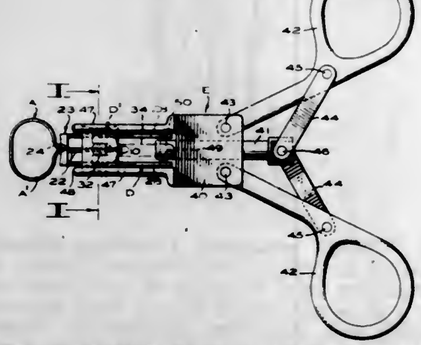
2. A liquid measuring apparatus comprising a casing having a valve chamber therein, a reciprocatory valve mounted in said valve chamber, a dispensing outlet in said valve casing connecting with said valve chamber, an intake in said casing having an inlet connecting a source of supply with said valve chamber, a pressure chamber mounted above and in open communication with said inlet and said intake, a pair of measuring chambers mounted on said casing and connecting with said valve chamber, each of said measuring chambers having a valve for permitting the escape of entrapped air therefrom, each of said valves having an adjustment for varying its position within said measuring chamber to compensate for the difference in viscosity of the liquids to be measured thereby, and means for reciprocating said reciprocatory valve to connect said intake with one of said measuring chambers and the outlet with the other measuring chamber when the valve is in one position and to reverse the connections when the valve is moved to its opposite position.

2,588,058
COVER TENSIONING DEVICE FOR SOFA BEDS
Robert C. Thompson and Kenneth M. Cayton, Lake Charles, La.
Application August 24, 1949, Serial No. 112,136
2 Claims. (Cl. 155—182)



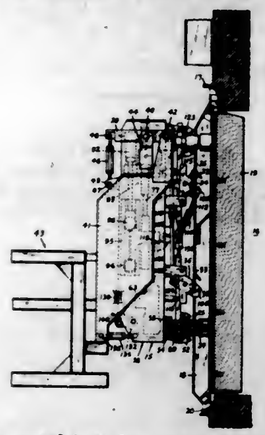
1. In a sofa-bed including seat and back members each comprising a cushion structure spring supported on a rigid base and provided with a cover, the back member being swingable into upright and horizontal positions, respectively, with one edge of its cover contiguous with one edge of the cover of said seat member, means for tensioning said covers comprising a flexible strip connected to both of said contiguous edges, and coil springs connected to said strip below said edges and to said bases and extending oppositely from said strip to said bases in either position of said back member.

2,588,059
MATRIX BAND RETAINER FOR ANTERIOR TEETH AND TRACTION INSTRUMENTS THEREFOR
Benjamin F. Tomlemire, Lafayette, Calif.
Application March 24, 1950, Serial No. 151,604
7 Claims. (Cl. 32—63)



1. In combination, a matrix band retainer and a detachable traction instrument therefor; the retainer including: a slotted head for slidably receiving an intermediate portion of a looped matrix band, with the loop extending from the head; at least one bar fixed to the head to project rearwardly therefrom; a block adjustably mounted on the bar for movement therealong, and having end sections of the matrix band removably anchored to the block; and means for clamping the block in adjusted position on the bar; the traction instrument including: a body member having a reciprocable plunger mounted therein for forward and rearward movement; the plunger being detachably connected to the bar of the retainer; at least one arm rigid with and projecting forwardly from the body member and having a hook removably engaging over a forward face of the block for pulling the block rearwardly along the bar to constrict the matrix band loop when the plunger is projected forwardly; and means for reciprocating the plunger.

2,588,060
COKE OVEN DOOR MACHINE
Olav M. Tweit, Mountain Lakes, N. J., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application July 11, 1950, Serial No. 173,141
25 Claims. (Cl. 212—4)



1. A door machine for manipulating a coke oven door adapted to seat against a door frame, said door comprising a plurality of rotatable members and a plurality of latch bars each pivotally connected to said members respectively for rotation thereon into and out of engagement with hook members on said door frame; which comprises means for operating said rotatable members, means for rotating said latch bars, door engaging means, and a single actuating means interconnected with all of said foregoing means for coordinating the operation of said foregoing means in proper sequence to manipulate said door.

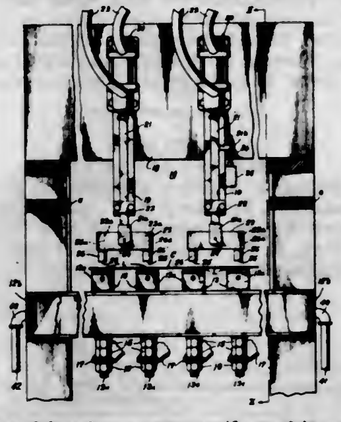
2,588,061
SHOE HAVING AN UPPER FORMED OF STRAP MEMBERS EACH SECURED BY A FLAT FASTENER MEMBER
Karel Veselý, Gottwaldov, Czechoslovakia, assignor to Svit, narodni podnik, Gottwaldov, Czechoslovakia
Application December 27, 1949, Serial No. 135,106
In Czechoslovakia December 27, 1948
3 Claims. (Cl. 36—11.5)



1. A shoe comprising an upper formed of strap members and an inner sole member having slots extending therethrough adjacent the peripheral edge thereof, the ends of the strap members forming the upper extending through the slots in the inner sole member, and a flat fastener member having a shank passing through each strap end and disposed in contact with the underside of said insole with the shank extending across

the slot to prevent withdrawal of the strap from the slot, the ends of said straps being bent inwardly to lie against the underside of the inner sole member and overlying the shanks of the fastener members passing therethrough.

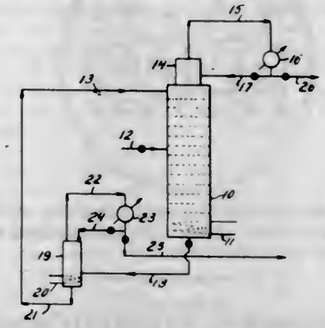
2,588,062
ELECTRODE ARRANGEMENT FOR FENCE WELDING MACHINES
Rudolph C. Vorderstrasse, Sterling, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois
Application April 6, 1948, Serial No. 19,283
2 Claims. (Cl. 219—4)



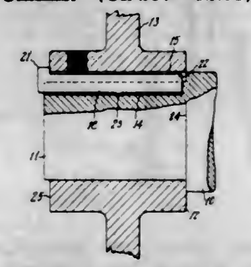
1. A machine for concurrently making multiple welds comprising a frame, a hollow support beam mounted thereon, a plurality of electrode supports extending vertically through said beam and insulated therefrom and sealed to the upper and lower sides of said beam in fluid-tight relation with respect thereto, means for conducting cooling fluid for circulation through the hollow interior of said beam, means on the lower ends of said electrode supports engaging the underside of said beam for securing said supports to said beam, recessed electrode retaining means on the upper ends of said supports, contact blocks detachably mounted therein and forming fixed electrodes, a source of welding current, and conductor means connected to the lower ends of said electrode supports and connecting said fixed electrodes to said source of welding current, a second pair of electrodes mounted on said frame and guided for vertical movement with respect thereto and for cooperation with said first pair of electrodes, a low resistance connection between said second pair of electrodes, and means for concurrently moving said second pair of electrodes respectively into welding position with respect to said first pair of electrodes to clamp the workpiece juncture between each opposed set of electrodes, whereby a pair of welds may be accomplished by a series flow of welding current through the opposed sets of electrodes.

2,588,063
SEPARATION OF PROPENE AND PROPANE BY EXTRACTIVE DISTILLATION
Stephen J. Wayo, Whiting, Ind., and John W. Teter, Chicago, and Edwin W. Shand, Homewood, Ill., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application September 30, 1947, Serial No. 776,942
1 Claim. (Cl. 202—39.5)

The method of separating propene and propane which comprises extractively distilling the propene-propane mixture with a multicomponent solvent comprising about 11.4 to about 27.8% by volume of a first component selected from the group consisting of acetamide and propionamide and about 88.6 to about 72.2% by volume of a second component from the group consisting of acetonitrile and propionitrile, removing a vapor fraction relatively rich in propane and a liquid fraction comprising solvent and relatively rich in propene.



2,588,064
KEYED SHAFT COUPLING
Ernest C. Webb, Bay Village, Ohio, assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application November 26, 1946, Serial No. 712,285
6 Claims. (Cl. 287—52.05)



1. A combination of a shaft having a keyway formed therein with an object mounted thereon and having a keyway formed therein adjacent to and in alinement with said keyway in said shaft and a key fitting freely between the sides of said keyways and loosely in a radial direction, said key consisting of a spring having a sharpened fulcrum edge between its ends resting in the bottom of the shaft portion of the keyway and having a second sharpened edge formed on the opposite edge of said key at one end thereof, said object having a screw therein bearing against the end of the key opposite said second sharpened edge.

2,588,065
HIGH-FREQUENCY GAS DISCHARGE DEVICE
William M. Webster, Edward O. Johnson, and Louis Malter, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application September 20, 1950, Serial No. 185,746
14 Claims. (Cl. 313—188)

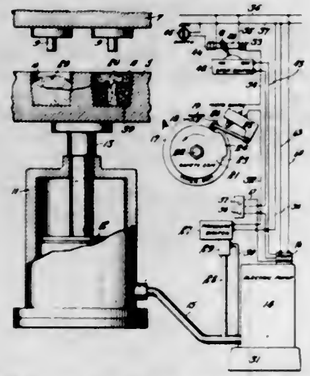
3. A gas discharge device, comprising a gas tight envelope, an ionizable medium in said envelope, a cathode and an anode mounted in spaced relation in said envelope, said anode having at least one opening formed therethrough,

said opening being large compared to the mean free path of ions in said medium, means adjacent



said cathode for ionizing said medium, and means on the side of said anode away from said cathode for ionizing said medium.

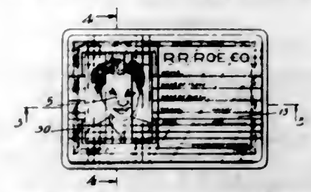
2,588,066
PROTECTION OF HYDRAULIC POWER PRESSES
Sidney M. Weisberg, Newark, N. J., assignor to Allied Electric Products, Inc., Irvington, N. J., a corporation of New Jersey
Application May 6, 1946, Serial No. 667,699
3 Claims. (Cl. 192—125)



1. A safety control for preventing injury to dies or other parts of power presses in the event of previously formed blanks remaining in the dies when fresh material is fed to the dies of such a press and comprising in combination with a hydraulic pressure system variable in pressure in accordance with the load on the dies, press stopping means, pressure sensitive means connected to control said press stopping means and set to operate at a pressure above the normal pressure in the hydraulic system at the time of die closing action, a cam operating in relation to the closing of said dies, a switch having an arm in engagement with said cam, said switch being electrically connected with said pressure sensitive means, said switch arm adapted to be closed by said cam as said dies are closing and in the event of abnormal pressure in the hydraulic system at the time of die closing action will render said pressure sensitive means operative to effect actuation of said press stopping means.

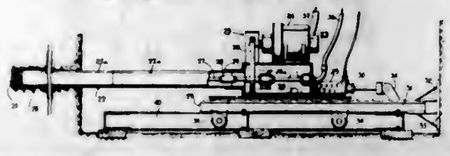
2,588,067
IDENTIFICATION CARD
Ned Whitehead, Los Angeles, Calif., assignor to Whitehead & Co., Inc., San Juan, Puerto Rico, a corporation of Puerto Rico
Application October 28, 1950, Serial No. 192,715
20 Claims. (Cl. 40—2.2)

1. In an identification card, a paper backing, a cut-out portion in said backing to receive a photograph, a photograph positioned in said cut-out, intermediate transparent thermo-plastic sheets having colored threads imbedded therein, said intermediate sheets positioned so as to en-



case said photograph on both sides and display colored threads on both sides of said photograph, said colored threads extending across said photograph and over a portion of said backing, and a sealing cover of transparent thermo-plastic.

2,588,068
DRILLING APPARATUS
Ernest Williams, Jackson Heights, and John W. Bogdanowski, Flushing, N. Y., assignors to Consolidated Edison Company of New York, Inc., New York, N. Y., a corporation of New York
Application January 9, 1948, Serial No. 1,384
5 Claims. (Cl. 255—20)

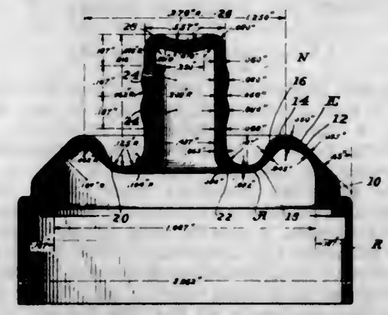


4. In a horizontal drilling apparatus the combination comprising: a central drill shaft having a tapered extremity; a hollow casing surrounding said shaft; a carriage member for supporting one extremity of said shaft and casing; mechanism for advancing said carriage substantially horizontally; power mechanism for rotating said central shaft; a drill head associated with the tapered extremity of said shaft comprising a bit having a plurality of cutting element support segments, one for each cutting element, a sleeve member surrounding said shaft adjacent the extremity thereof, means for pivotally mounting each of said segments internally of said sleeve member for angular movement to spread or retract said elements; mechanism for connecting said sleeve member to said shaft for rotation therewith and for axial movement relative thereto between predetermined limits, said segments cooperating with said tapered shaft extremity whereby the former are spread in response to a forward thrust upon said shaft, and are retractable toward the shaft axis in response to a withdrawal of said shaft to its inner limit of axial movement relative to said sleeve member; a thrust ring on said casing, and a guide member mounted upon said sleeve member for holding same centered relative to said casing and for communicating a thrust to said drill head in response to a forward thrust on said casing.

2,588,069
NURSING UNIT
Adda M. Allen, The Plains, Va., assignor to Disposable Bottle Corporation, Washington, D. C., a corporation of Delaware
Application December 27, 1948, Serial No. 67,345
4 Claims. (Cl. 128—252)

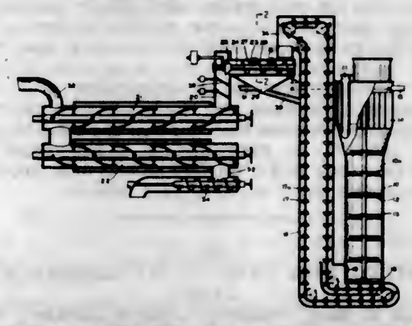
1. A nursing device of rubber or the like capable of being distended and retracted comprising

a peripheral rim with means for attaching same to a container, a breast of relatively large diameter positioned to be exposed to the lips of the infant and located within said rim and merging into a central nipple comprising a substantially cylindrical staff of relatively small diameter which is of sufficient rigidity when in distended and retracted positions to maintain itself presented axially upwardly from the center of said breast, said breast being molded to provide when in its retracted condition an outwardly convex annular ridge portion extending upwardly beyond said rim and adjacent thereto and a relatively thin inwardly concave annular areola portion merging with and between said ridge portion and



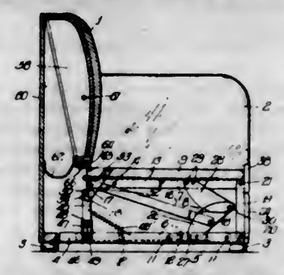
said nipple, the material of said areola portion being of sufficient area within said ridge portion to permit an infant by pulling on the nipple to draw it outwardly through said ridge portion in an unfolding action, said areola portion being molded to positively return itself, in the absence of an outwardly directed force on the nipple, to its downwardly retracted position with the base of said nipple maintained within and below said ridge portion, said nipple being of such length and the material of said areola portion being of such limited area as to maintain a major portion of the length of said nipple above said ridge when said areola portion is in its downwardly retracted position.

2,588,070
SOLVENT EXTRACTION COMBINATION
Raymond T. Anderson, Lakewood, Ohio, assignor to The V. D. Anderson Company, Cleveland, Ohio, a corporation of Ohio
Application December 9, 1948, Serial No. 64,320
2 Claims. (Cl. 23—270)



1. Solvent extraction apparatus comprising an upright chambered extraction tower, fines separator means at the upper end of said tower and in communication therewith, said tower being provided at the lower end thereof with a horizontal shelf upon which separated fines settle, means for supplying solid oil bearing material to the upper end of said tower, means for supplying volatile solvent liquid to said tower near the lower end thereof, liquid outflow means at the upper end of said fines separator whereby to maintain the level of liquid at substantially the level of said outflow means, means for continually withdrawing solid material from the lower end of said tower comprising an upright conduit at one side of said tower there being open communicating means between the lower ends of said conduit and said tower, elevator means in said conduit for solid material settling in said tower comprising an endless chain of buckets having a fines-receiving end at the lower end of said tower and a fines-delivery end at the upper end of said conduit, said buckets being movable across said shelf in scraping contact therewith, a continuously operating press near the fines-delivery end of said elevator and above said liquid level, a fines-conveying chute adapted to receive fines from said elevator, said chute being bifurcated to provide two branches, a first branch communicating with said press and a second branch bypassing said press, screw means in said press for advancing fines therethrough towards a discharge end while applying pressure thereto, said discharge end of said press being provided with vapor seal discharge means biased towards closed position but openable by fines being discharged therethrough, drier means adjacent said discharge means for said press for receiving fines discharged through said vapor seal discharge means, said second branch likewise being in communication with said drier means, conveyor means in said second branch whereby material is transferred directly from said elevator to said drier means without passing through said press, and means in said bifurcated fines-carrying chute for routing the material delivered by said elevator either through said first branch to said press or through said second branch to bypass said press.

2,588,071
CONVERTIBLE FURNITURE
John A. Arton, Chicago, Ill.
Application November 14, 1946, Serial No. 709,685
3 Claims. (Cl. 5—36)



2. In an article of convertible furniture comprising a main frame, a sectional bed frame for folding into and out of said main frame, and means for securing the inner section of said bed frame in said main frame, of means for locking the bed sections in folded position in said main frame comprising in combination, a generally upright locking link having an aperture therein and pivoted at its lower end to said main frame, a spring connected between said main frame and said locking link for normally urging the latter outwardly with respect to said main frame, a cooperating locking member fixed to the outer section of said bed frame for yielding locking engagement with said locking link when the bed frame is moved to folded position in said main frame, and a pin car-

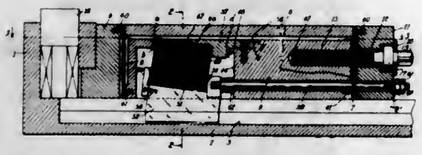
ried by said main frame and loosely engaging in the aperture in said locking link for permitting limited pivotal movement of said link about its pivot and for limiting such movement.

2,588,072
FLUSH TANK VALVE OPERATING MECHANISM
Herman Bachli and Harry S. Shapiro, Chicago, Ill., assignors to Chicago Specialty Mfg. Co. Inc., Chicago, Ill., a corporation of Illinois
Application April 22, 1949, Serial No. 89,085
1 Claim. (Cl. 4—67)



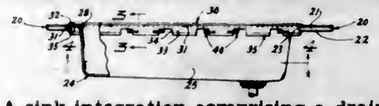
For a combination comprising a bushing having a shank, a sleeve having driven fit within the shank and provided with a bore one long side of which provides a flat wall, a stud shaft rotatably mounted in the bushing through the sleeve and provided with a flat surface spaced from the flat wall but adapted to engage said flat wall by a corner of such surface to limit the rotation of said shank, a handle on said shank for rotating the same and said shank having a squared end portion opposite the handle, and a lifting lever having one end portion fixed to said squared end portion.

2,588,073
QUICK TIGHTENING MACHINE-TOOL VISE
Adrien Auguste Bahuaud, Paris, France
Application June 26, 1947, Serial No. 757,230
In France February 28, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires February 28, 1966
9 Claims. (Cl. 81—17)



1. A machine-tool vise comprising in combination a stationary jaw provided with a substantially vertical clamping face and with a substantially horizontal fixed guiding member directed at right angles to said clamping face and provided with at least one substantially horizontal inverted T-shaped groove extending at right angles to the clamping face of said stationary jaw, a movable jaw provided with a clamping face substantially parallel to the clamping face of the stationary jaw and slidable on said guiding member toward and away from the clamping face of said stationary jaw, a shoe slidable on said guiding member, a slider slidable in said groove of said guiding member, a bundle of juxtaposed locking blades bearing downwards on an upper part of said shoe and upwards on a lower face of said slider, said locking blades being tilted at such an angle that said movable jaw, said shoe and said slider can move as a unit toward and away from said stationary jaw, and tightening means engaging said movable jaw and said shoe to move the movable jaw and the shoe relatively to each other for increasing the angle of tilt of the locking blades and for locking the shoe and slider on said guiding member, and to further move the movable jaw and the shoe relatively to each other so as to force the movable jaw toward the stationary jaw after locking of the shoe and slider on the guiding member, the tightening effort increasing with the inclination of the locking blades, and the adherence of the shoe on the fixed guiding member resulting from the elastic lengthening of said blades.

2,588,074
SINK MOUNTING
Lloyd L. Bair, Flint, Mich.
Application October 20, 1949, Serial No. 122,545
14 Claims. (Cl. 4—187)

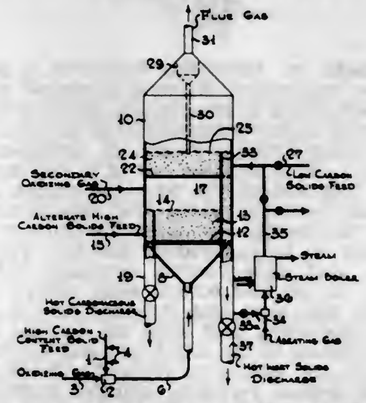


1. A sink integration comprising a drainboard, a top on said drainboard, a bottom on said drainboard, a continuous internal relatively thick peripheral edge on said drainboard describing a sink receiving opening therein, a sink, a continuous external relatively thin flange around the top of said sink receivable in the opening of said drainboard, a top on said flange level with said drainboard top, a bottom on said flange above the plane of said drainboard bottom, a continuous external peripheral edge on said flange facing said drainboard edge at the top thereof, a continuous rib disposed between said drainboard edge and said sink flange edge closing the space therebetween, a head on said rib overlying both said drainboard top and said sink flange top, downwardly extending spaced extensions on said continuous rib depending below the plane of said drainboard bottom, side faces on either side of said extensions, ends on said extensions, a foot on either side of said extensions at the bottom of said faces, a top on said foot, a dual wedge member receivable into the plane of said rib extensions via the spaces between said rib extensions, a relatively low tapered wedge drainboard portion on said wedge slidable past said extension face, a bottom on said wedge drainboard portion riding on said extension foot top, a top on said wedge drainboard portion engaging said drainboard bottom gripping said drainboard between said rib head and said wedge drainboard portion securing said rib to said drainboard, a relatively high tapered wedge sink flange portion on said wedge slidable past said extension opposite face, a bottom on said wedge sink flange portion riding on said extension foot top, a top on said wedge sink flange portion engaging said sink flange bottom gripping said sink flange between said rib head and said wedge sink flange portion securing said sink flange to said rib, a bridge rigidly connecting said wedge drainboard portion and said wedge sink flange portion so that one said portion secures the other said portion in maintaining engagement with said foot tops and a face on said bridge providing hammering area to drive said wedge.

2,588,075
METHOD FOR GASIFYING CARBONACEOUS FUELS
Frank T. Barr, Summit, Bruno E. Roetheli, Cranford, and Walter G. Scharmann, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 18, 1945, Serial No. 635,762
22 Claims. (Cl. 48—206)

1. The process of converting solid carbonaceous material into valuable volatile fuels, which com-

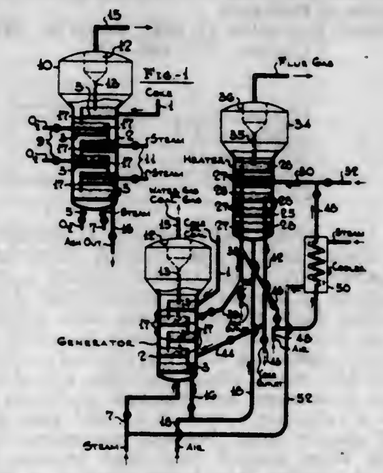
prises passing finely-divided carbonaceous material through a circuit comprising an endothermic conversion zone and a combustion zone, maintaining said material as a mass of fluidized solids in said conversion and combustion zones at elevated temperatures suitable for the production of volatile fuels from said materials, maintaining a substantial positive temperature gradient from said conversion zone to said combustion zone, feeding fresh carbonaceous solids of fluidizable particle size to said conversion zone, recovering a volatile fuel from said conversion zone, passing finely divided solid conversion residue from said conversion zone to said combustion zone, maintaining in said combustion zone at least two separate superimposed fluidized beds of solids, supplying said residue to a lower one of said beds so as to maintain a relatively high carbon concentration in said lower bed, maintaining in an upper one of said beds a fluidized mass of refractory solids containing carbon in relatively low concentration, not exceeding 5%, while adding thereto extraneous non-carbonaceous refractory solids from a source other than the ash particles leaving said lower bed, subjecting said residue to combustion in said lower bed with an oxidizing gas to produce a combustion gas containing substantial amounts of CO, passing said combustion gas in the presence of free oxygen and substantially at the temperature of said lower bed upwardly from said lower bed directly into a lower portion of said upper bed at combustion conditions conducive to burn CO completely to CO_2 at a temperature substantially higher than said lower bed temperature, and passing finely divided solids highly heated in said combustion zone from the latter separately from said combustion gas to said conversion zone to supply heat required in said conversion zone.



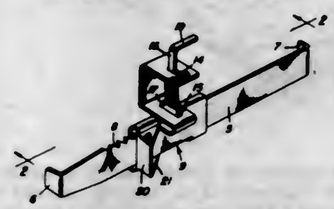
6. The process of claim 1 in which said conversion zone is a gasification zone for the conversion of carbonaceous solids with steam to produce CO and H_2.

2,588,076
METHOD FOR GASIFYING FUELS
Edwin J. Gohr, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 28, 1945, Serial No. 637,616
3 Claims. (Cl. 48—206)

1. The method of producing gaseous fuels from solid carbonaceous materials, which comprises maintaining finely divided solid carbonaceous materials in a vertical elongated conversion zone in a series of beds of dense, ebullient, fluidized condition by an upwardly flowing gas under reaction conditions suitable for the production of gaseous fuels therefrom, feeding finely divided solid carbonaceous material to the upper portion of said conversion zone, withdrawing fluidized relatively spent low carbon solids from a lower portion of said conversion zone, regulating the free circulation of solids within said fluidized beds essentially in a vertical direction downwardly from the upper high carbon portion of said conversion zone to the lower low carbon containing portion of said conversion zone, subjecting the carbonaceous constituents of said withdrawn solids to combustion with a combustion-supporting gas in a vertical elongated combustion zone, maintaining in said combustion zone a plurality of separate superimposed dense, turbulent fluidized solids beds, maintaining a relatively high carbon concentration in a lower one of said solids beds and a relatively low carbon concentration in a higher one of said solids beds, passing said withdrawn solids to said lower solids bed, supplying said combustion-supporting gas to said lower solids bed to support combustion therein, passing combustion gases and entrained low carbon solids from said lower to said higher solids bed at conditions suitable for converting substantially all of the CO produced to CO_2, passing combustion residue from said lower solids bed substantially at the temperature of the latter to said lower portion of said conversion zone and combustion residue from said upper solids bed substantially at the temperature of the latter to said upper portion of said conversion zone to supply heat required in said portions.



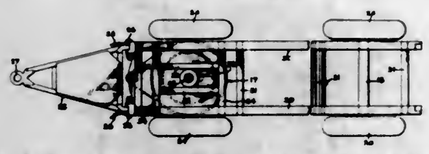
2,588,077
DOOR FASTENER
Ray W. Beadle, Denver, Colo.
Application December 28, 1949, Serial No. 135,877
4 Claims. (Cl. 292—295)



3. A door fastener comprising a toothed bar having an angular flange at one end for anchor-

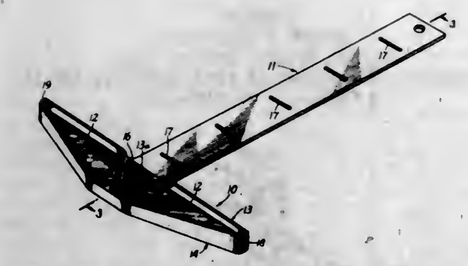
ing to a door jamb to position the bar at the free edge of a closed door, a slide on the bar, a U-shaped guide carried by the slide in a horizontal position to provide upper and lower arms, a spring loaded locking dog slidably carried by the guide engaging the teeth of the bar to hold the slide in adjusted position thereon, a horizontally projecting stop on the slide engaged behind the door to hold the door closed, and webs on the upper and lower edges of the stop bracing the stop against the slide.

2,588,078
FOUR WHEEL TRAILER VEHICLE
James J. Black, Cincinnati, Ohio, assignor, by mesne assignments, to Trailmobile Inc., a corporation of Delaware
Application November 10, 1947, Serial No. 784,998
7 Claims. (Cl. 280—125)



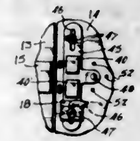
1. A four wheel trailer vehicle comprising; a trailer chassis having a set of road wheels at one end thereof, an undercarriage having a set of road wheels at the opposite end thereof, a lower fifth wheel plate mounted upon said undercarriage, an upper fifth wheel plate mounted upon said trailer chassis, a king pin pivotally connecting said fifth wheel plates together, a load bearing ring interposed between said plates in concentric arrangement relative to said king pin, a pair of closure rings disposed concentrically on opposite sides around said load bearing ring, said load bearing ring being secured to one of said fifth wheel plates and said closure rings being secured to the other of said plates and movable relative to said load bearing ring, sealing rings disposed on opposite sides of said load bearing ring and in slidable sealing engagement with said closure rings, said sealing rings being interposed between the upper fifth wheel plate and said load bearing ring and being formed of a material adapted to dampen sound and vibration between the plate and the load bearing ring.

2,588,079
T-SQUARE
Paul F. Boehm, Greenwich, Conn.
Application June 17, 1947, Serial No. 755,139
1 Claim. (Cl. 33—75)



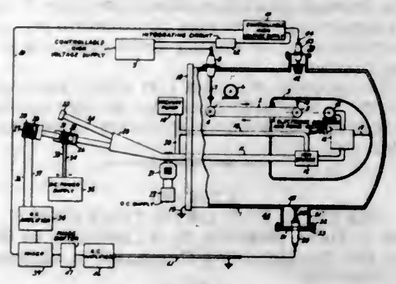
In a T-square, in combination, a head formed of plastic material and having spaced aligned edge sufaces which are adapted to engage a guide surface, and a blade formed of plastic material integrally with said head and having an edge at right angles to said edge surfaces, said edge surfaces being separated by a portion which is offset away from the blade in the zone of juncture between said blade and said head, and having fillets provided within said offset portion so as to constitute a gradual transition from the thickness of said blade to the thickness of said head in said offset portion.

2,588,080
MOUNTING MEANS FOR BOLT-ACTUATED SWITCHES
Barkere Boodakian, New York, N. Y.
Application December 6, 1949, Serial No. 131,465
3 Claims. (Cl. 200—55)



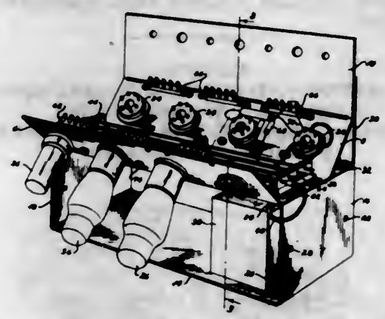
1. Means for adjustably mounting a pair of switches controlling separate electrical circuits on a face board against which the free edge of a pivotally mounted door closes so as to be selectively independently closed or simultaneously closed by the extendable bolt of a lock mounted on the free edge of the door, comprising a slide extended vertically along the face board and having the switches mounted thereon one above the other to be engaged by the bolt when extended, said slide having vertically extended slots in its top and bottom ends, screws passed through said slots and threaded into the face board supporting said slide for vertical movements relative to the face board and the extendable bolt, and means for releasably holding said slide in desired vertically adjusted positions in which both switches will be engaged by the plunger when extended or in which one or the other of the switches will be engaged when the plunger is extended.

2,588,081
VOLTAGE REGULATION FOR ELECTROSTATIC GENERATORS
Henry W. Bousman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 27, 1950, Serial No. 170,664
11 Claims. (Cl. 322—2)



1. The system of controlling the terminal voltage of an electrostatic generator having a charge collecting electrode, means for transporting electrical charge to said electrode, and a corona leak electrode for varying the charge leakage from said collecting electrode, said system comprising voltage supplying means having an output variable in response to an input signal for supplying voltage to said corona leak electrode, means responsive to variations in the voltage of said collecting electrode for deriving a signal substantially instantaneously responsive to variations of said collecting electrode voltage, and a feedback loop interconnecting the input of said variable output voltage supplying means and said last mentioned means whereby the potential of said corona leak electrode may be substantially instantaneously varied to control the charge leakage from and hence the voltage of said collecting electrode.

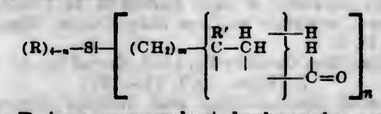
2,588,082
ELECTRONIC CIRCUIT CHASSIS
John Brown, Berwyn, Benjamin L. Snavely, Takoma Park, and John V. Atanasoff, Fulton, Md.
Application December 27, 1948, Serial No. 67,324
18 Claims. (Cl. 175—298)



1. A chassis for use in assembling experimental electronic circuits which comprises a mounting plate having an upper surface for supporting electrical conductors, a side plate extending upwardly from the mounting plate in obtuse angular relation therewith, a supporting structure including members located in a plurality of planes, said members extending downwardly from the mounting plate and adapted to engage a work table and support said plate elevated above and against tilting movement relative to such a work table and with the side plate inclined thereto, and electronic tube sockets mounted on the outer side of the side plate and with their wiring terminals located inwardly of the side plate.

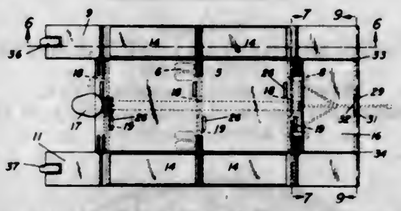
2,588,083
ORGANOSILICON ALDEHYDES AND METHODS OF PREPARING THE SAME
Charles A. Burkhard, Alplaus, and Dallas T. Hurd, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
No Drawing. Application June 1, 1950, Serial No. 165,592
10 Claims. (Cl. 260—448.2)

1. A composition of matter corresponding to the general formula:



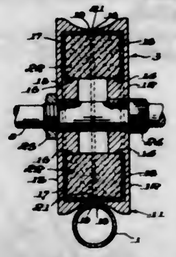
where R is a monovalent hydrocarbon radical free of aliphatic unsaturation and selected from the class consisting of alkyl, aryl, alkaryl, aralkyl, saturated cycloaliphatic, and heterocyclic radicals, R′ is selected from the class consisting of hydrogen and the methyl group, m is one of the following O, 1; and n is an integer equal to from 1 to 3 inclusive.

2,588,084
COMBINED TRAILER AND PONTOON BOAT
Keith Bushfield, San Francisco, Calif.
Application July 18, 1950, Serial No. 174,435
2 Claims. (Cl. 9—1)



1. A combined trailer and pontoon boat comprising a substantially rectangular platform, supporting wheel means pivoted to said platform for retraction thereagainst, said platform having a generally flat upper surface, a pontoon of greater length than the platform pivotally attached to each of the opposite parallel margins of the platform, each of said pontoons being of generally rectangular shape in cross section and having transversely extending channels therein, the pontoons when in operative positions presenting the upper sides thereof in the plane of the platform and resting on said platform when in stored position, a ramp hingedly connected to the forward end of the platform and extending between the adjacent projecting ends of the pontoons when in operative position, ears carried by the forward ends of the pontoons and cooperating pins slidably mounted in said ramp for locking the pontoons in operative or stored positions, and cooperating rack and gear means carried by the platform adapted upon operation of the gear to project the racks into the channels of said pontoons to support the pontoons in operative positions.

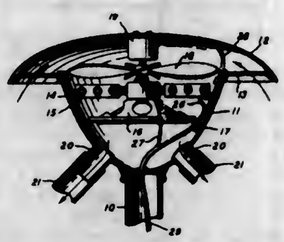
2,588,085
PERMANENT MAGNET ROLL
Augustus C. Clouse, Butler, Pa., assignor to Fretz-Moon Tube Company, Inc., Butler, Pa., a corporation of Pennsylvania
Application June 9, 1949, Serial No. 98,024
4 Claims. (Cl. 198—41)



1. A magnetic roll comprising a roll shaft, a roll casing mounted on said shaft and formed of non-magnetic material, said casing being radially divided into spaced opposed members, a pair of spaced opposed magnetic rings each fitted into one of said members and each having a flange projecting radially outwardly from its inner circumferential edge to said casing surface, a non-magnetic spacer member carried between said flanges of said pair of rings, and a core of permanently magnetized material closely held within said rings, the magnetic lines of force of said core running axially of the shaft from one ring to the other, the tips of said magnetic ring flanges constituting the only magnetically unshielded

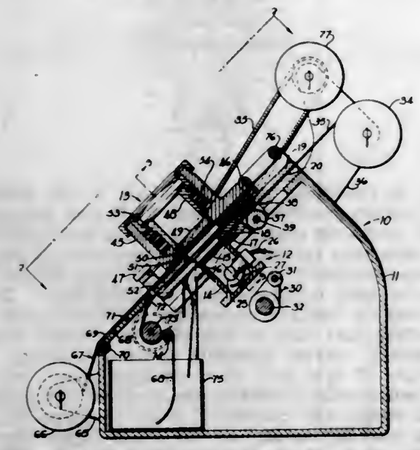
portions of the rings whereby unlike magnetic poles are formed at predetermined positions on the circumference of said roll for securely holding ferrous material thereto.

2,588,086
SPEAKER AND HEATER UNIT FOR DRIVE-IN THEATERS
Maurice S. Cole, Corsicana, Tex.
Application March 12, 1949, Serial No. 81,108
3 Claims. (Cl. 98—2)



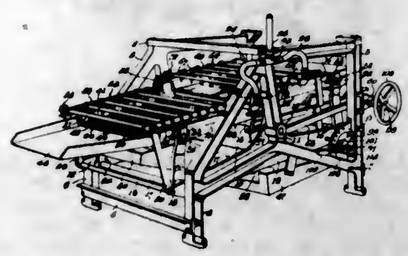
1. A speaker unit for a drive-in theatre comprising a vertical standard, a bell shaped housing mounted on said standard and having its open end directed upwardly, a downwardly directed fan mounted in said housing open end, an overhanging cover supported by said housing in spaced relation above said open end of said housing so as to form a fresh air inlet opening, at least one outlet opening in the lower portion of said housing, a speaker mounted in a horizontal plane within said housing and spaced from the sloping walls of the latter so as to form an annular air passage for the air delivered by said fan, and a flexible tube connected at one end thereof with said outlet opening and having the remaining end thereof adapted to be received within a window of an automobile parked beside said standard.

2,588,087
METHOD AND APPARATUS FOR MOUNTING FILM ON CARDS
Roger Connor and Hunter E. Hooe, Athens, Ohio, assignors to The McBee Company, Athens, Ohio, a corporation
Application December 28, 1948, Serial No. 67,711
4 Claims. (Cl. 216—22)



1. A mounting machine adapted for cutting and mounting selected portions of film on cards within openings formed therein comprising: first and second female dies; means for holding said dies in opposed, parallel, slightly spaced relation with respect to each other, the die opening of said first die being identical in size to the openings in said cards and smaller than the die opening of said second die, and the opposed faces of said dies defining a slot for the accommodation of one of said cards with its opening in registration with the die opening of said first die; a first male die mounted over the outer face of said first female die and in registration with the opening therein, said first male die being normally spaced from said first female die to permit the insertion of a selected portion of a film therebetween; a second male die mounted over the outer face of said second female die in registration therewith and slightly spaced therefrom so that a strip of adhesive can be inserted therebetween; and means for advancing said male dies into and through their associated female dies.

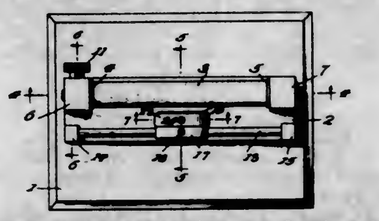
2,588,088
WASHING AND SCREENING MACHINE
Ralph Cover, Westminster, Md.
Application August 20, 1946, Serial No. 691,757
9 Claims. (Cl. 209—269)



1. In a machine of the character described, a rocker frame rockable about a pivot disposed approximately centrally of its ends, at least one screen unit reciprocably mounted on said frame in an inclined position endwise of said pivot in each direction of the length of the frame, means for individually reciprocating said screen units, means for rocking the frame to simultaneously vary the inclination of all said screen units in like amount, and washer spray means extending in parallel relation over each said screen unit and supported on said frame so as to be movable with the frame when the latter is moved to vary the inclination of the screen units thereby to retain the relation of the spray means and the screen means at all times.

2,588,089
HYPODERMIC NEEDLE HONING DEVICE
James B. G. Custis and Ernest R. Post, Washington, D. C.; American Security and Trust Company, executor of said James B. G. Custis, deceased, assignor to Inez May Custis, Washington, D. C.
Application October 21, 1948, Serial No. 55,776
1 Claim. (Cl. 51—157)

A bevel maintaining and honing device for hypodermic needles having a hollow ground tapered or concaved beveled point, comprising a base, a pair of bearing supports thereon, a hone of uniform oval cross-section throughout its length having bearings at its ends rotatably mounted in said supports, one of said supports having a pocket therein, a self-locking manually actuated gear drive rotatably mounted in said pocket and including a worm having an operating head exteriorly of the support and a coacting worm wheel on the adjacent end bearing of the hone for rotatably adjusting said hone with its bearings through at least 360°, a shaft fixed to said base radially spaced from, below and parallel to said hone, a needle holder rotatably and slidably mounted on said shaft, and quick-release

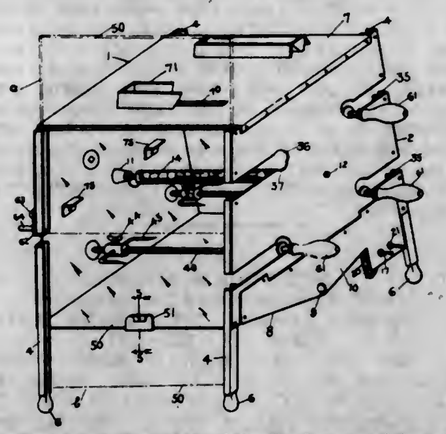


gripping means in said holder for firmly gripping a needle axially in said holder in substantially horizontal honing position transversely of and radially spaced from said shaft to engage the curved top surface of the hone at the front thereof whereby adjustment of the hone will cause the point of the needle to engage the hone at an angle corresponding to the angle at which the point of the needle is hollow ground beveled.

2,588,090
PROCESS FOR THE PREPARATION OF BASIC ALUMINUM SALTS OF ALPHA AMINO ACIDS
Geza S. Delmar, Montreal, Quebec, Canada
No Drawing. Application April 14, 1950, Serial No. 156,041
17 Claims. (Cl. 260—448)

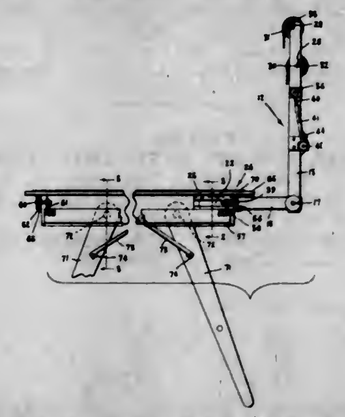
6. A process for the preparation of basic aluminum salts, comprising reacting a pure and finely divided aluminum hydroxide gel possessing swelling properties with at least one alpha-amino acid in the presence of water to form a paste of the desired basic aluminum salt, and drying said paste.

2,588,091
COMBINATION ROTISSERIE AND OVEN
Edward Dornbush, Miami Beach, Fla.
Application January 13, 1950, Serial No. 138,308
1 Claim. (Cl. 99—421)



A device of the class described comprising an oven having side walls, a top wall mounted on said side walls, a heating element capable of emitting heat in all directions about said element and substantially centrally positioned in said oven with its end portions secured to said side walls, a plurality of stub shafts rotatably mounted on said first side wall and extending therethrough, said stub shafts being substantially symmetrically disposed about said heating element and comprising one group mounted above said heating element, and one group mounted below said heating element with each of said stub shafts of said upper group mounted in substantially vertical alignment with a stub shaft of said lower group whereby substantially equal quantities of heat are received at the horizontal axes of said stub shafts, a non-circular cross sectioned bore at the axes of each of said stub shafts adapted to receive a skewer, a recess in said second side wall directly opposed to each of said stub shafts, a slot in said second side wall extending from the outer edges thereof to each of said recesses, a sprocket wheel secured to each of said stub shafts on the outside of said first side wall, a sprocket chain engaging each of said sprocket wheels, power means operatively connected to said sprocket chain whereby each of said sprocket wheels are rotated, a plurality of skewers, each skewer comprising an elongated shaft resting in said recess, a pointed portion at one end of each of said elongated shafts received by said bore of said stub shaft, a handle mounted on said elongated shaft at the outside of said second side wall, a plurality of elongated slots contained by said top wall in alignment with said skewers, and an elongated basting trough having an open bottom along its full length mounted in each of said elongated slots on said top wall.

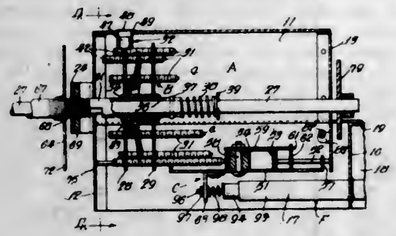
2,588,092
TABLE AND PAPER ROLL SUPPORT FOR PREPARING PAPER FOR HANGING
Germain E. Duff, Southbridge, Mass.
Application August 5, 1948, Serial No. 42,675
8 Claims. (Cl. 164—78)



1. A device of the character described for use with a paper hanger's table having spaced sleeve-like slide members for providing connection means adjacent one end thereof, said device comprising a pair of main upright supports having spaced notches adjacent the upper ends thereof and having angled portions extending forwardly adjacent the lower ends thereof for detachable connection with the sleeve-like connection means carried by the table, said upright supports being adjustably connected to each other for movement to different spaced relations for supporting rolls of paper of different given lengths through the provision of bar-like means extending through the rolls of paper and engaging in the notches,

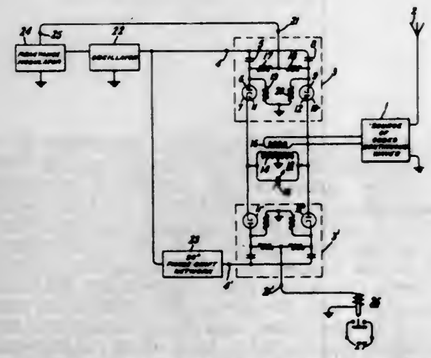
said angled portions being adjustable relative to each other for permitting alignment of said portions with the sleeve-like connection means of the table, means, carried by said spaced upright supports, having a longitudinal slot therein extending in a direction transversely of the table over which the paper from the rolls is adapted to be drawn and a pivoted bar member carried by said upright supports and having a bearing portion movable toward and away from said means having the longitudinal slot therein.

2,588,093
TUNING MECHANISM FOR TELEVISION SETS AND THE LIKE
John R. Dull, La Grange, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois
Application April 13, 1951, Serial No. 220,845
25 Claims. (Cl. 74—10.33)



1. The combination of a support, an element rotatably journaled on the support, axially disposed cam means mounted on the element, a member reciprocatingly mounted on the support for movement parallel to the axis of the rotary element, a hub on the member disposed in the circumference of the cam means, and a ring of greater inside diameter than the hub held in free eccentrically revolving contact therewith by engagement of the cam means with the ring whereby the rotation of the element effects a smooth reciprocable movement of the member.

2,588,094
CONTINUOUS WAVE DETECTION SYSTEM
Richard C. Eaton, North Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application September 8, 1949, Serial No. 114,663
7 Claims. (Cl. 250—36)

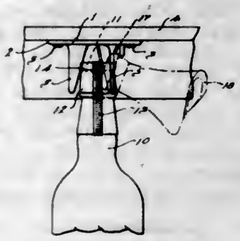


1. A continuous wave detection system comprising a source of continuous waves, a pair of phase detectors, each of said detectors being adapted to render a unidirectional output voltage whose magnitude and polarity depend on the relative phase of a pair of alternating input voltages, direct connections from said source to each of said phase detectors, an oscillator, connections from said oscillator directly to one of said detectors and through a ninety degree phase shift network to the other of said detectors, means operating from one of said unidirectional output voltages to control the frequency of said oscillator, and a utilization circuit for receiving the other of said unidirectional voltages.

2,588,095
LEAD CABLE SHEATH ALLOY
John F. Eckel, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application December 24, 1949, Serial No. 135,041
6 Claims. (Cl. 75—166)

1. A lead base alloy comprising 0.01 to 0.4% tellurium, 0.05 to 0.5% arsenic, 0.05 to 1.0% tin, balance lead and the small amounts of impurities present in commercial leads.

2,588,096
BOTTLE OPENER AND SEAL CUTTER
Russell Eckenboy, Detroit, Mich.
Application February 2, 1946, Serial No. 645,138
2 Claims. (Cl. 7—14.25)

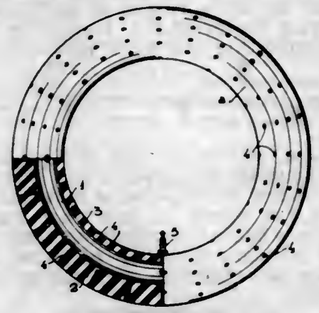


2. In a device for loosening bottle closures, a base plate having mounting screw openings therein, a plurality of flat face plates of substantially trapezoidal shape positioned perpendicular to the base plate and radially disposed about a center on said base plate, each of said face plates being provided with a sloping edge, the portions of said face plates adjacent to said base plate being of greater width than the outer portions of said face plates, said sloping edges each being beveled in the same direction and adapted to grip the peripheral surface of a closure inserted in the area between the sloping edges of the face plates, said face plates being spaced from each other and disconnected from each other.

2,588,097
INNER TUBE FOR TIRES
Adolfo Eiras, Buenos Aires, Argentina
Application March 15, 1948, Serial No. 14,942
1 Claim. (Cl. 152—349)
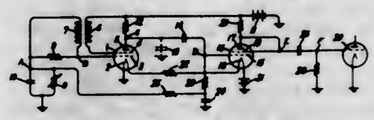
A one piece annular inner tube having a continuous smooth toroidal outer surface and made entirely of flexible, stretchable rubber, the said tube being formed with an annular opening of circular cross section extending therethrough and said tube having a tread wall, the thickness of which is substantially greater than that of the rim wall, and the thickness of the wall of said tube diminishing gradually from said tread wall to said rim wall, and said inner tube

being formed with a plurality of individual, mutually and closely spaced, substantially cylindrical cavities extending inwardly from said continuous smooth toroidal outer surface almost



up to said annular opening, the said cavities opening onto said continuous smooth toroidal outer surface of said tube and being located in all parts of the wall of said tube.

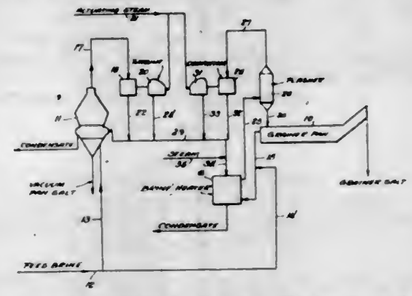
2,588,098
PULSE GENERATOR
David J. Epstein, Boston, Mass., assignor to General Electric Company, a corporation of New York
Application December 31, 1947, Serial No. 795,067
12 Claims. (Cl. 250—36)



8. An arrangement comprising a self-blocking oscillator for generating burst of oscillations at a given repetition rate, said oscillator comprising an electrical charge storage circuit and means for charging and discharging said storage circuit at a rate determining said repetition rate, an electron discharge device comprising an input circuit, means for rendering said device inoperative comprising a coupling circuit having a relatively larger time constant than said storage circuit for applying the voltage developed across said storage circuit to said input circuit, and means responsive to the bursts of oscillations developed in the output of said self-blocking oscillator for rendering said device operative.

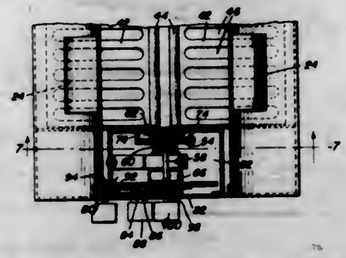
2,588,099
BRINE EVAPORATION SYSTEM
William H. Farnsworth, Manistee, Mich., assignor to Morton Salt Company, Chicago, Ill., a corporation of Illinois
Application January 15, 1947, Serial No. 722,188
10 Claims. (Cl. 159—21)

1. The integrated process of making vacuum pan salt and grainer pan salt which comprises, withdrawing vapor from vacuum pan evaporator means by the evaporation of brine therein so as to produce vacuum pan salt therein, compressing the withdrawn vapor by partial utilization of actuating steam, heating other brine to a temperature suitable for grainer pan evaporation by passing it in heat interchange relationship with steam, reducing the pressure on the thus heated brine so as to flash off a substantial amount of water therefrom in the form of flash steam vapor without inducing salt crystallization in the brine, delivering the thus partially concentrated hot brine from said flashing step into a grainer pan for further evaporation and production of grainer pan salt, compressing said flash steam vapor, and utilizing all of the steam provided (1) by compressing said vapor withdrawn from said vacuum



pan evaporator means, (2) by the partially spent actuating steam, and (3) by compressing said flash steam vapor, in evaporating additional brine in said vacuum pan evaporator means and in heating additional brine for evaporation in said grainer pan.

2,588,100
AUTOMATIC ELECTRIC TOASTER
Dominic J. J. Federico, Easton, Pa.
Application January 28, 1948, Serial No. 4,828
4 Claims. (Cl. 99—327)

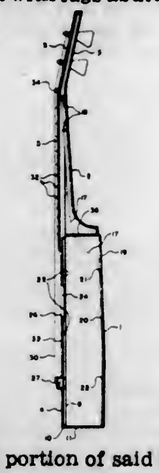


1. An electric toaster comprising a hollow body having electric heating elements therein, guards defining a chamber for positioning an object in proximity to said heating elements, a hinged bottom for said chamber, spring means biasing said bottom into its closed position, time controlled means including a clockwork mechanism for moving said hinged bottom to its discharging position, a manually operable rack bar for winding said clockwork mechanism, switch means movably adjustable relative to said rack bar for varying the time of actuation of said switch means relative to the time of movement of said hinged bottom to its discharging position, said switch means being controlled by said rack bar.

2,588,101
MUSICAL INSTRUMENT CONSTRUCTION
George A. Finder, San Diego, Calif., assignor to Fin-der Inc., San Diego, Calif.
Application July 15, 1950, Serial No. 174,085
12 Claims. (Cl. 84—291)

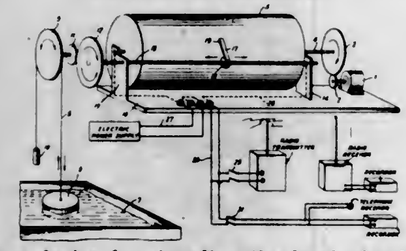
1. In a musical instrument construction, a body casting having an arcuate in cross-section neck integral therewith and a top casting provided with an integral finger-board thereon, having a flange engageable with the inner side wall of said body casting cemented to said inner side wall, said neck portion and said finger-board portion having head portions integral therewith abutting

each other, said finger-board portion, at its head portion, provided with lugs abutting the head por-



tion of said neck portion of said body casting and adhered thereto.

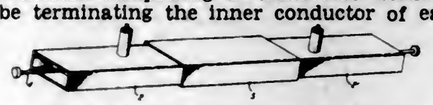
2,588,102
LIQUID LEVEL SIGNALING APPARATUS
Francisco A. Forero, Bogota, Colombia
Application October 22, 1948, Serial No. 55,897
1 Claim. (Cl. 177—351)



In a device for signaling the level of a liquid, a transmitter cylinder, a single contact brush electrically cooperating with the cylinder, the surface of said cylinder being divided substantially in two, one-half comprising an insulating zone and the other half a conducting zone, said zones lying on the surface of the cylinder, the main body of the conducting zone comprising a plurality of relatively wide bands of conducting material and the main body of the insulating zone comprising a triangularly-shaped area of insulating material, said bands of conducting material being of equal width but of progressively shorter length, first strips of insulating material extending from said insulating zone and separating said bands from one another, and a plurality of second strips of insulating material projecting from said insulating zone into each of said bands, the number of said second strips and the depth to which they penetrate being the same for all said bands.

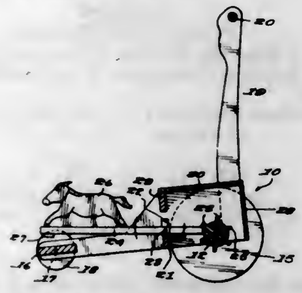
2,588,103
WAVE GUIDE COUPLING BETWEEN COAXIAL LINES
Arthur Gardner Fox, Eatontown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 14, 1946, Serial No. 697,107
1 Claim. (Cl. 178—44)

A frequency selective circuit comprising a pair of spaced coaxial lines, a low loss wave guide connecting said lines and forming therewith a network having frequency selective characteristics, said wave guide comprising end wave guide sections and an intermediate wave guide telescoping said end sections respectively, said end sections each having a coaxial to wave guide junction therein comprising a transverse terminal probe terminating the inner conductor of each



coaxial line, pistons in said end guide sections located symmetrically beyond said probe at positions providing an impedance mismatch at said junctions, the length of said wave guide being adjustable to cause the reflections from said mismatched junction to be out of phase, said pistons being adjustable to vary the selectivity of said circuit.

2,588,104
UPRIGHT BABY WALKER
Helen E. Fox, El Paso, Tex.
Application June 20, 1950, Serial No. 169,221
5 Claims. (Cl. 155—22)

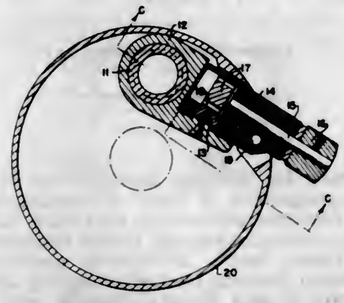


4. A baby walker comprising a carriage, said carriage including a pair of spaced, parallel side members, a pair of spaced, parallel, vertically disposed uprights projecting upwardly from said side members and secured thereto, a handlebar extending between the upper ends of said uprights and secured thereto, a rotating rear axle extending between said side members, a pair of rear wheels operatively connected to said rear axle, a bar arranged forwardly of said axle and extending between said side members, there being a plurality of spaced cutouts in said bar, a lever extending through each of said cutouts and pivotally connected to said bar, a plurality of spaced dowel pins carried by said axle for engaging said levers and causing pivotal movement thereof, a body member having the configuration of an animal supported on the front end of each of said levers, a support member extending between the front ends of said side members and secured thereto, a pair of front wheels operatively connected to said support member, and a bumper connected to the lower front end of each of said levers to support said support member.

2,588,105
AUXILIARY OPTICAL DEVICE FOR PHASE MICROSCOPES
Lorenzo Franceschini, Florence, Italy, assignor to Societa per Azioni Officine Galileo, Florence, Italy, an Italian corporation
Application August 2, 1948, Serial No. 41,954
In Italy August 22, 1947
2 Claims. (Cl. 88—39)

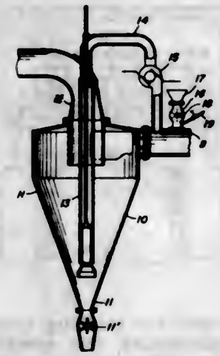
1. In a phase contrast examination microscope having a tube and an optical axis which includes

an objective lens system, an ocular lens system, a displaceable member provided with a slit formed therein and positioned between a source of light and said objective lens system to form a luminous slit, and a diffraction plate positioned between the objective lens system and said ocular lens system, the improvement which comprises: an auxiliary device including; an auxiliary optical lens system positioned between said diffraction plate and said ocular lens system, said auxiliary optical lens system forming, together with said ocular lens system of said microscope, a telescope which is capable of focussing on that plane wherein said diffraction plate is positioned,



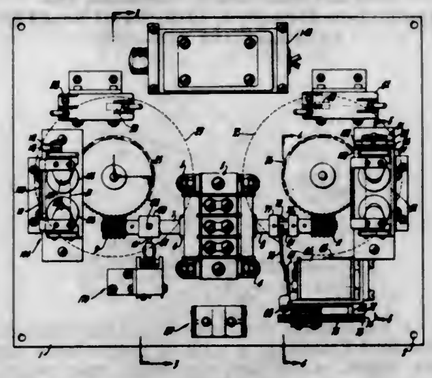
thereby permitting the operator to position said luminous slit so as to superimpose its image on said diffraction plate and to center said image in relation to said diffraction plate, said device also including means for moving said auxiliary optical lens system into and removing it from the microscope optical axis, whilst at the same time permitting all optically functioning elements hitherto recited, save only the said auxiliary optical lens system, to remain positioned in normal functioning relationship, whereby said auxiliary optical lens system when moved into the optical path effectively forms a telescope for preliminary adjustment and, when removed from said optical path, allows the microscope to function normally.

2,588,106
METHOD OF SEPARATING DUST FROM A GAS
Gustav H. Frangquist, Chicago, Ill., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application April 24, 1948, Serial No. 23,109
1 Claim. (Cl. 183—121)



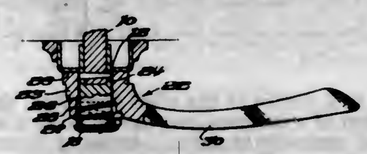
The method of separating suspended extreme fines from a moving dust laden gaseous fluid by introducing coarse particles and moisture into said moving fluid to be carried in suspension therein; by subjecting said dust laden fluid and coarse particles plus moisture to a whirling motion within a chamber whereby to cause turbulence and intimate mixing of said gaseous fluid and said coarse particles plus moisture and agglomeration of the aforesaid extreme fines suspended in said gaseous fluid around said coarse particles; and by subjecting said gaseous fluid and coarse particle mixture to the action of a centrifugal force thereby causing the separation from said fluid of the aforesaid coarse particles and extreme fines adhering thereto.

2,588,107
INTEGRATING COUNTER
William C. Grabau, San Francisco, Calif.
Application February 6, 1950, Serial No. 142,692
12 Claims. (Cl. 235—92)



1. An integrating translating device comprising: a motor; a shaft driven by said motor; means for actuating said motor to rotate said shaft step by step in predetermined increments in either direction; means responsive to each rotation of said shaft through a predetermined number of said increments in one direction for causing said shaft to rotate in the opposite direction through a like number of predetermined increments; and means responsive to the reversal of rotation of said shaft for controlling a controlled translating device circuit, said latter means including a first switch actuator dial driven by said shaft step by step in n_1 increments for each complete revolution of said dial and a second switch actuator dial driven by said shaft step by step in n_2 increments for each complete revolution of said second dial where n_1—n_2 is an integer.

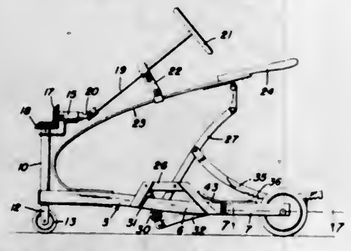
2,588,108
LATCH RETRACTING DEVICE FOR DOORS
George G. Griffiths, New Bedford, Mass.
Application December 9, 1949, Serial No. 132,043
2 Claims. (Cl. 292—347)



1. A latch retracting device for an automobile door or the like comprising a journal member having a head at one end with a key projecting therefrom and means at the other end for attachment to a latch retracting spindle of the door, means to lock the member to the spindle to prevent relative rotation, a handle member com-

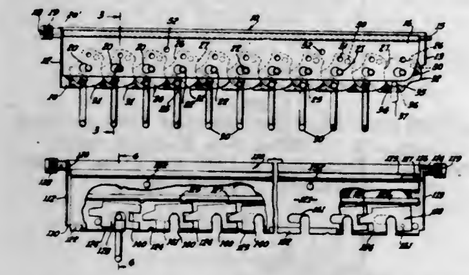
prising a hub with an arm extending radially therefrom, said hub having a bore through which the journal member extends for rotatable mounting thereon, a second larger bore in said hub of a size to receive a portion of said head and providing a shoulder between said bores, said large bore having a notch in the wall thereof to receive said key, a spring acting between said hub and head to force the hub inwardly to disconnect the key from the notch but permitting interconnection of said key and notch when the hub is moved outwardly against the action of said spring for transmitting rotary movement from said handle member to said journal member.

2,588,109
DRIVE MECHANISM FOR TOYS
Arlando Alen Green, Versailles, Ind.
Application January 3, 1949, Serial No. 68,857
4 Claims. (Cl. 280—226)



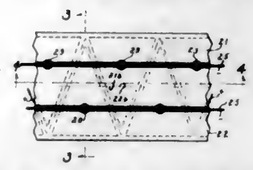
4. A velocipede comprising a wheel supported frame and including a pair of rear wheels and a front wheel, a ratchet for each rear wheel, a rearwardly inclined spring bar connected at its front end to the frame, a seat at the rear end of the bar, a rockable lever connected at one end to the seat and pivoted at an intermediate point to the frame, toothed ratchet operating arms pivoted to the lever and resting on the respective ratchets, and a steering wheel supported on said bar and connected to the front wheel.

2,588,110
SPONGE COUNTER HOLDER
Thomas W. Halliday, Los Angeles, Calif.
Application December 26, 1946, Serial No. 718,286
15 Claims. (Cl. 211—4)



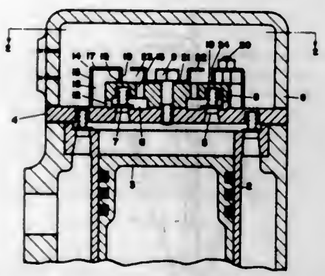
10. In a device of the class described, the combination of a longitudinal base having a series of spaced open-ended slots, a series of interlocking members movably mounted on the base and each provided with an open-ended recess, each of the members being movable from a locked position wherein its recess cooperates with one of said slots for removably retaining an object to an unlocked position, wherein the recess and slot cooperate to permit release of the object, and interengaging means on said members whereby each member maintains an adjacent member in locked position, said interengaging means releasing the adjacent member when the member is moved to unlocked position.

2,588,111
ELECTRICAL PRECIPITATION APPARATUS
Robert Gorden Hanneman, Cleveland, Ohio, assignor to Air-Maze Corporation, Cleveland, Ohio, a corporation of Delaware
Application April 8, 1946, Serial No. 660,312
3 Claims. (Cl. 183—7)



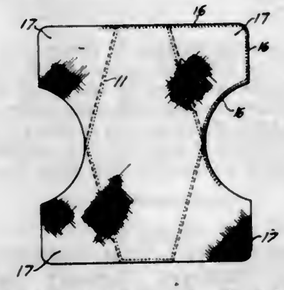
1. Means for filtering particles out of a fluid stream comprising a layer of electrically conductive material pervious to said fluid, said layer having a generally zig-zag folded formation providing ridges facing alternately upstream and downstream, holding frames extending across the open ends of said zig-zag folds, a pair of said frames at each end of said folds, each pair providing triangular blocks for engaging in a trough and two adjoining flanks of each fold on opposite sides thereof, each pair of frames when assembled with said layer causing said blocks to firmly engage between them and to hold the ends of said zig-zag folds, means for holding said frames so assembled, and a series of discharge electrodes intermediate said upstream and downstream ridges and generally parallel thereto and spaced from said zig-zag folds, each of said electrodes having its opposite ends mounted in said frames at opopsite ends respectively of said folds.

2,588,112
MUFFLING MECHANISM FOR COMPRESSOR VALVES
Lars Hanson, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application June 10, 1946, Serial No. 675,610
4 Claims. (Cl. 137—69)



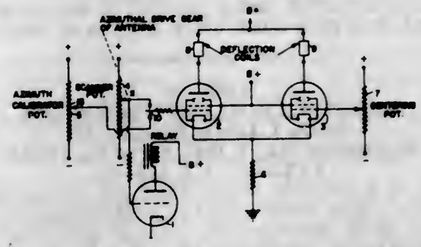
1. In mechanism for muffling sounds in compressor valve structures, the combination of a cover member, a valve guide member mounted adjacent said cover member, port means in said cover member, a valve adapted to control gas flow through said port means, yieldable means disposed in said guide member for urging said valve toward said port means, a chamber formed between the cover member and the guide member for the discharge of gas from said port means, a muffling member disposed about said guide member, said member including a first element adapted to form a passage for gas, and a second element adapted to form a second passage for gas, and a plurality of passages connecting the passages in said muffling member with said chamber, said first element being spaced from said second element to form an opening for the discharge of gas from the muffling passages.

2,588,113
DIAPER
Agnes C. Harrison, Provo, Utah
Application February 26, 1948, Serial No. 10,999
6 Claims. (Cl. 128—284)



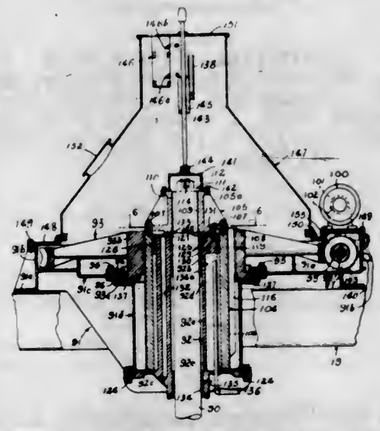
1. A diaper, having in developed outline an initial, substantially rectangular configuration, said diaper comprising a diamond-shaped inner portion, each side of which, together with the short apex-to-apex line of the diamond-shape, defines an angle appreciably less than ninety degrees, and a cover portion having two double-tab portions directly applicable to a baby's body without any preliminary conventional folding, whereby each tab of each double-tab cover has its creasing axis along the corresponding diamond side; said diamond-shaped inner portion having its major apices stubbed-off so as to constitute two opposing edge portions of appreciable length which are secured permanently to edge portions of said cover portion so as to be located respectively at the front and back of said diaper in the wearing position thereof.

2,588,114
CATHODE-RAY TUBE CIRCUIT
Leland J. Haworth, Champaign, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 25, 1944, Serial No. 537,318
8 Claims. (Cl. 343—113)



3. In a radio echo detection system indicator circuit, which includes a cathode ray tube indicator and a push-pull driver stage adapted to deflect the electron beam of said cathode ray tube in accordance with the azimuthal rotation of the antenna of said system, apparatus for producing a movable azimuth marker line comprising, a first potentiometer having a movable arm which is adapted to follow the azimuthal rotation of said antenna and to supply said driver stage with an input signal, an operator controlled potentiometer, a relay adapted to change the input to said driver stage from said first potentiometer to said operator controlled potentiometer, and means for actuating said relay when the azimuth rotation of said antenna exceeds a predetermined limit.

2,588,115
SEDIMENTATION DEVICE
Dealy K. Hines, Oceanside, N. Y., assignor to General American Transportation Corporation, Chicago, Ill., a corporation of New York
Application February 16, 1946, Serial No. 648,156
2 Claims. (Cl. 210—55)

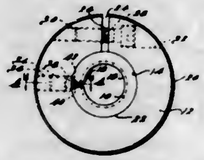


1. In sedimentation apparatus, in combination, a sedimentation tank having a discharge for settled solids in the bottom portion thereof, an inlet for the material to be treated, said inlet being vertically spaced from said solids discharge and a clarified liquid discharge spaced from both said inlet and said settled solids discharge, a shaft vertically positioned in said tank, rake means mounted on said shaft for raking settled solids toward said solids discharge, supporting means extending transversely across said tank, a piston mounted on said supporting means, a cylinder cooperating with said piston to define an expansible chamber, means connecting said shaft and said cylinder, a driving gear of substantial size, said cylinder extending through the center of said driving gear, key means connecting said driving gear and said cylinder to permit vertical movement of said cylinder with respect to said driving gear, means for driving said driving gear, and means for supplying a hydraulic fluid to and exhausting it from said expansible chamber to raise and lower respectively said shaft and rake means.

2,588,116
ADJUSTABLE RING GAUGE
George Hohwart and Ernest F. Hohwart, Detroit, Mich., assignors to N. A. Woodworth Company, Ferndale, Mich., a corporation of Michigan
Application July 26, 1946, Serial No. 686,492
6 Claims. (Cl. 33—199)

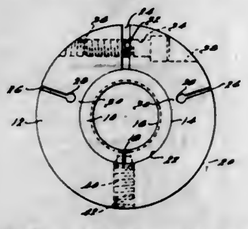
1. A ring gage comprising an inner gaging member having a radial through slot defining

spaced ends which permit radial adjustment of said member; and an outer body around the gaging member, said body having a radial through slot positioned substantially at right angles to the through slot in said gaging member and provided with an internally threaded radial bore



disposed in alignment with the through slot in said gaging member; means for drawing the body solidly against said gaging member; an adjusting screw in said bore; and means actuated by said adjusting screw engageable with the spaced ends of the gaging member to expand the latter radially outwardly against said body.

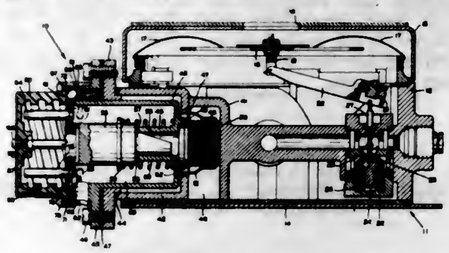
2,588,117
ADJUSTABLE RING GAUGE
George Hohwart and Ernest F. Hohwart, Detroit, Mich., assignors to N. A. Woodworth Company, Ferndale, Mich., a corporation of Michigan
Application July 26, 1946, Serial No. 686,493
13 Claims. (Cl. 33—199)



1. A thread ring gage comprising an internally threaded annular insert having an adjusting slot extending radially therethrough and defining spaced ends, said insert characterized by a tendency to become eccentric when adjusted; an annular body around and snugly fitting said insert having a radial through slot defining spaced end portions disposed substantially in diametrically opposed relation to said adjusting slot and adapted to apply a radially contracting force against the insert; a clamp screw adapted to pull the ends of said body toward each other and regulate the amount of force exerted by the body against the insert, said insert and said body each having concentric inner and outer edges, said body provided with radial slots which extend part way therethrough, open onto the periphery thereof and are located in generally equispaced relation on opposite sides of said through slot and in the first quadrants of the body adjacent the through slot.

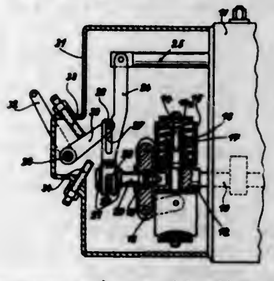
2,588,118
VALVE FOR RESPIRATORY DEVICES
Bradford B. Holmes, New York, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application June 18, 1946, Serial No. 677,598
8 Claims. (Cl. 251—34)

1. A diluter valve comprising a chamber, at least one fluid entry port in the side walls of said chamber, a centrally disposed outlet port in the bottom wall of said chamber, a sleeve longitudinally fixed within said chamber and registering with the outlet port therein, a plurality of parallel posts, a spider slidably received on said posts, a setting knob rotatably mounted on said chamber and receiving said posts and spider, a threaded interior surface in said knob coacting with said spider to move said spider along said posts, a plug longitudinally disposed within said cylindrical



member, a beveled surface at one end of said plug adapted to be received within said sleeve, and resilient means adapted to bias said plug away from said sleeve and against said spider, the rotation of said knob moving said spider and said plug to vary the opening between the beveled surface and said sleeve to control the fluid flow through said sleeve.

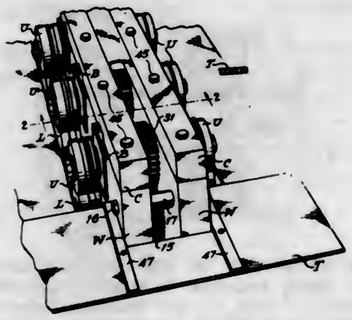
2,588,119
SPEED CONTROLLED GOVERNOR
Max Hurst, Stuttgart, Germany, assignor to Robert Bosch, G. m. b. H., Stuttgart, Germany
Application March 1, 1949, Serial No. 79,013
In Germany October 1, 1948
5 Claims. (Cl. 264—3)



2. In a governor, in combination, a governor sleeve provided with two annular shoulders, a slide block arranged between the two annular shoulders of said governor sleeve, an intermediate lever pivotally mounted intermediate its ends to provide a first lever arm and a second lever arm and whose first arm engages said slide block, a delivery control member to which the second arm of said intermediate lever is connected, a governor shaft, a governor casing, and a pin adapted to be inserted in the front wall of said governor casing parallel to the governor shaft, said slide block being slidable on said pin.

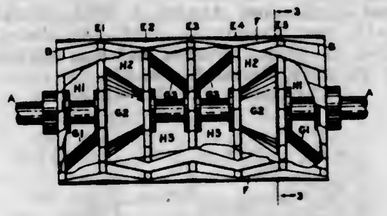
2,588,120
MULTIPLE ROLLING MECHANISM
James J. Ingels, Chicago, Ill.
Application May 7, 1947, Serial No. 746,499
2 Claims. (Cl. 153—2)

1. In a multiple rolling machine, in combination, a frame comprising two parallel spaced vertical walls wherein are vertical guideways at spaced points lengthwise thereof, a bearing block having a vertically slidable mounting in each guideway, means for floating each block in its guideway, an upper row of shafts projecting at each end exteriorly of the frame, one journaled for rotation in each bearing block, a pair of spaced forming rolls carried by each shaft to the outside of the frame walls, and a third forming roll carried thereby between the walls and adjacent one of them, other shafts extending in a lower row below the upper shaft row and parallel therewith and projecting at each end exteriorly of the frame, fixed bearings wherein the shafts in the lower row are journaled for rotation carried by the walls of the frame, a pair of spaced forming rolls carried by the ends of each shaft in the



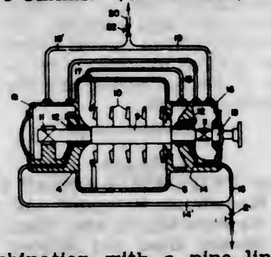
lower row and located outside the vertical walls of the frame and in coacting relation with the outer roll on the shaft in the upper row, and a third roll carried by each lower shaft between the frame walls and adjacent one of them in coacting relation with the proximate roll thereabove, and a train of gears intermediately of the frame walls interconnecting all of the shafts for imparting unidirectional rotation thereto, all of said gears being of uniform thickness and located contiguous to the inner side face of said third rolls and substantially filling the space between said third rolls and the other wall of the frame.

2,588,121
FEED ROLLER
Clifford Johnston, Northville, Alberta, Canada
Application April 12, 1947, Serial No. 741,121
In Canada January 18, 1947
2 Claims. (Cl. 198—127)



1. A feed roller consisting of two open sectioned end plates, and more than one open sectioned intermediate plate spaced between the said end plates, such open plate sections being angularly offset about the axis of the feed roller, a series of peripherally spaced bars connecting the end plates with the intermediate plates, such bars having connecting portions set at an angle with respect to the said end plates and the said intermediate plates, such connecting portions between each set of adjacent plates being in alternate directions to form a zig-zag pattern along the face of the said roller.

2,588,122
ARRANGEMENT FOR COLLECTING AND UTILIZING NATURAL GAS LEAKAGE FROM A CENTRIFUGAL COMPRESSOR EMPLOYED ON A PIPE LINE
Walter F. Jones, Washington, Conn., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application April 21, 1948, Serial No. 22,404
5 Claims. (Cl. 48—194)

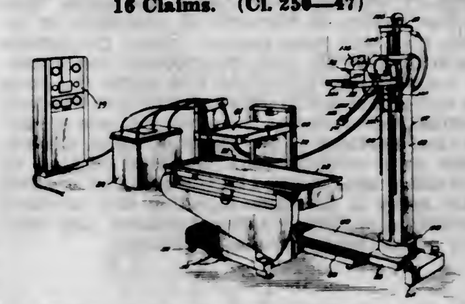


1. In combination with a pipe line through which natural gas is transported from a source of supply to a place of use, a centrifugal compressor serving to boost the pressure of gas in said line, said compressor having a shaft, impellers mounted on the shaft to compress the gas, and seal members disposed on the shaft to minimize leakage of gas along the shaft, means for actuating the compressor, chambers for collecting gas escaping through the seal members, and means for utilizing at least a portion of the collected gas to supply power to actuate the compressor.

2,588,123
PREPARATION OF VINYLTETRAHYDRONAPHTHALENES
Edward A. Kern, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application November 13, 1946, Serial No. 709,428
1 Claim. (Cl. 260—669)

In the process of obtaining increased yields of 8-vinyltetrahydronaphthalene from the acetylation of tetrahydronaphthalene, reduction of the acetylated product, and dehydration of the carbinol, the improvement which comprises conducting the acetylation step at a temperature of from about 40° to 50° C.

2,588,124
X-RAY APPARATUS
Arthur J. Kizaur, Wauwatosa, Wis., assignor to General Electric Company, a corporation of New York
Application May 27, 1949, Serial No. 95,752
16 Claims. (Cl. 250—47)



1. X-ray apparatus comprising a support frame, a table including a top panel mounted on

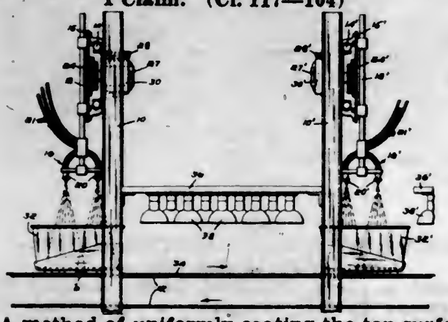
said frame, means for supporting sheet material sensitive to X-rays on said table behind said panel, a track, on said frame and extending at one side of said table, said track forming a footing for said frame, an upright support pedestal on said track and adjustable longitudinally thereof, a carriage vertically adjustable on said pedestal, means for mounting an X-ray source on said carriage in position to direct rays toward said table, counterbalance means for counterbalancing said carriage on said pedestal, and normally inoperative safety clamp means operable to hold said carriage against movement on said pedestal in the event of disconnection therefrom of said counterbalancing means.

2,588,125

METHOD OF UNIFORMLY SPRAY COATING

Thomas M. Knowland, Belmont, and Grosvenor D. Marcy, Newton Highlands, Mass., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts

Application December 8, 1949, Serial No. 131,738
1 Claim. (Cl. 117—104)



A method of uniformly coating the top surface of a mat strip or the like with a diverging liquid spray reciprocated thereacross and spraying thereonto a path of D-width having a uniformly dense inner portion of d-width more concentrated than the marginal portions disposed outwardly thereof, said spray including two conical diverging sprays each having a uniformly dense inner portion more concentrated than the peripheral portion disposed outwardly thereof and with said two conical diverging sprays directed onto said surface in patterns disposed laterally adjacent to each other longitudinally of the strip and with their adjacent said peripheral portions in overlapped relation in an area disposed centrally between the two patterns, which consists in continuously moving the strip in flat horizontal position at a uniform speed longitudinally in one direction along a predetermined path, simultaneously therewith projecting the spray onto the top surface of the strip in said path of D-width with said inner portion thereof disposed in a path of d-width, and continuously reciprocating the spray in a straight line across the strip at a uniform speed so synchronized with the longitudinal movement of the strip that one of said marginal portions of the spray overlaps the adjacent and corresponding marginal portion of the surface area sprayed by the previous crossing of the spray in the same direction and produces therewith a uniformly sprayed coating, said strip being moved longitudinally a distance

$$D-\left(\frac{D-d}{2}\right)$$

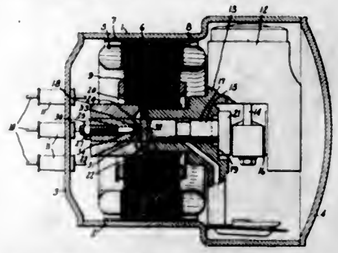
during and simultaneously with each complete traversing and return cycle of the spray across the strip and the longitudinal axes of the diverging sprays being maintained perpendicular to said surface during the entire traversing of the spray across the strip.

2,588,126

COMPRESSOR SHAFT ASSEMBLY

Lowell M. Kurtz, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application July 2, 1948, Serial No. 36,720
13 Claims. (Cl. 308—163)



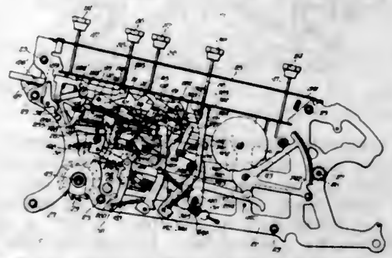
1. In a compressor or the like, a frame including a shaft bearing, a shaft journaled in said bearing, a first thrust bearing formed on said frame, said shaft including a shoulder adapted to engage said first thrust bearing, a second thrust bearing formed on said frame and axially spaced from said first thrust bearing, a first member arranged on said shaft and adapted to engage said second thrust bearing, said shaft having an axially extending passage therein, means for adjusting the end play of said shaft relative to said frame, said means including a second member engaging said first member and an adjustable element received in said passage for engaging said second member to vary the position of said first member, at least one of said members being curved with respect to a plane extending transversely of said shaft to facilitate self-alignment.

2,588,127

INTERLOCK FOR CALCULATING MACHINE CONTROL KEYS

Jaimer M. Laiho, Skokie, Ill., assignor to Felt & Tarrant Manufacturing Company, Chicago, Ill., a corporation of Illinois

Original application August 8, 1942, Serial No. 454,111, now Patent No. 2,492,703, dated December 27, 1949. Divided and this application May 14, 1949, Serial No. 93,393
11 Claims. (Cl. 235—130)



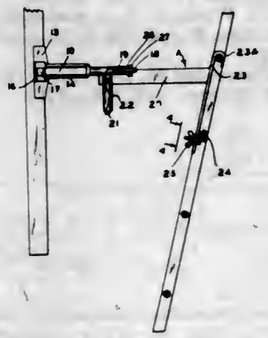
1. In a calculating machine, a plurality of ordinal columns of digit keys, a primary calculation control key, a secondary calculation control key, means to prevent the depression of said secondary calculation control key unless said primary calculation control key is in depressed position, interlocking means operable by said digit keys to prevent simultaneous operation of said primary calculation control key and any of said digit keys, means operable by depression of said primary calculation control key to latch the same in depressed position, and relief means formed in said primary calculation control key for cooperation with said interlocking means to permit the subsequent operation of said digit keys after said primary calculation control key is in depressed position.

2,588,128

JIG FOR PIVOTALLY SUSPENDING ARTICLES

Karl M. Larsen, Minneapolis, Minn.

Application April 4, 1949, Serial No. 85,319
2 Claims. (Cl. 118—503)



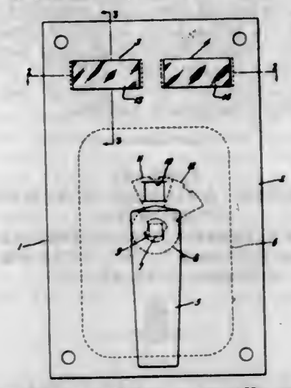
1. A jig for pivotally suspending articles comprising an outstanding substantially horizontal supporting bar adapted to be securely anchored at its inner end to a suitable supporting structure, a vertical sleeve element fixed to the outer portion of said bar against one side thereof and in depending relation thereto and having a generally smooth interior surface, the upper end of said sleeve being disposed a slight distance below the upper edge of said bar, a unitary substantially T-shaped member constituting a horizontal tubular bushing having rigid therewith a depending pin circular in cross section and having a generally smooth surface, said pin being freely slidable vertically into and out of said sleeve through the upper end thereof and rotatable therein, said bushing normally resting upon the upper end of said sleeve and when resting thereon being disposed in side-by-side adjacent relation to the upper marginal portion of said bar above the sleeve to prevent rotational movement between said depending pin and said sleeve and thereby prevent horizontal swinging movement of the bushing, a pivot pin journaled in said bushing for rotation on a substantially horizontal axis, a bar rigidly fixed intermediate its length to the front end of said pivot pin and being tiltable vertically by turning of the pivot pin in the bushing, and clamping mechanism adjustably mounted on said bar for releasably clamping an article thereto, the freely slidable fit of said depending pin in said sleeve permitting bodily upward removal of the article-carrying bar and an article clamped thereto from the sleeve of the supporting bar.

2,588,129

INDICATOR LIGHT FOR CONTROL SWITCHES

Isaac R. Latta, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York

Application December 31, 1949, Serial No. 136,390
2 Claims. (Cl. 177—311)



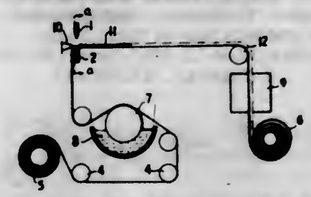
1. In a multiple position manually operated illuminated control switch of the class having an escutcheon plate for mounting upon a control panel with a handle in front of the escutcheon plate and a shaft extending from the handle through said escutcheon plate to a switch contact srtucture, the combination of signal lights mounted on said escutcheon plate for indicating the position of apparatus the position of which may be controlled by the control switch, said escutcheon plate including openings through which each light may be viewed, said lights each including a small electric lamp, a generally cylindrical lamp cartridge, a bracket for supporting said cartridge on said escutcheon plate, a colored lens positioned within the associated escutcheon plate opening, a compression spring surrounding said lamp for biasing said lens towards the front of said escutcheon plate, said lens including two radially outwardly-extending ears for engagement with the back of said escutcheon plate to resist the biasing force of said spring, said lens being removable from the front of said escutcheon plate by a backward force against the front of said lens to rotate said lens to disengage one of said ears, and shoulders on the back of said escutcheon plate to retain said compression spring when said lens is removed.

2,588,130

METHOD AND APPARATUS FOR THE MANUFACTURE OF CARPETS

Cecil G. Lemon, Tidmarsh Grange, and Esme T. C. Brinton, Quatt, near Bridgnorth, England

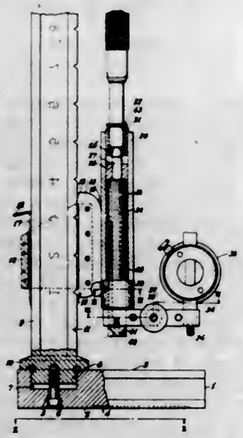
Application October 19, 1948, Serial No. 55,302
In Great Britain October 18, 1947
10 Claims. (Cl. 154—76)



1. The method of making carpets of the Axminster type or like pile fabrics which include

a flexible, sheet-like backing with a surface layer of an adhesive capable of being rendered effective by heat and, on subsequently cooling, hardening but remaining flexible; which comprises the steps of forming successive and independent rows of pile tufts; applying successive rows of said tufts to the adhesive coated surface of said backing with each row spaced at a distance from a previously-applied row; and pressing each successive row of tufts into intimate contact with the adhesive coated surface of said backing and simultaneously heating said adhesive coated surface along the line of each row of pile tufts by high frequency dielectric heating.

2,588,131
MEASURING AND MARKING HEIGHT INDICATOR
Stephen T. Lester, Cleveland Heights, Ohio
Application February 6, 1947, Serial No. 726,801
3 Claims. (Cl. 33—170)



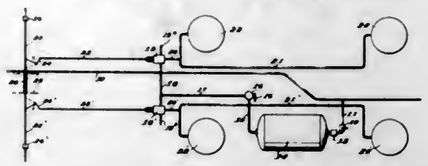
3. Measuring apparatus comprising a blade, a carrier on said blade having a tubular portion with its axis parallel to the edges of the blade, a measuring device fixed to said carrier and extending into said tubular portion, a cylindrical plunger within the tubular portion and freeably slidable therein, resilient means urging said plunger against said measuring device, a carrying bracket fixed to the plunger and provided with attaching means for attaching a plurality of instruments angularly disposed with respect to each other about the axis of the plunger, a plurality of axially extending grooves in the plunger, and a set screw threaded through the tubular portion of the carrier and selectively engageable with any said grooves.

2,588,132
MACHINE FOR THE MANUFACTURE OF FIBER FOOTWEAR
Stephen W. Lippitt, Lakewood, Ohio, assignor to Sani-Tread Company Incorporated, Buffalo, N. Y., a corporation of New York
Application June 17, 1947, Serial No. 755,214
2 Claims. (Cl. 93—1)



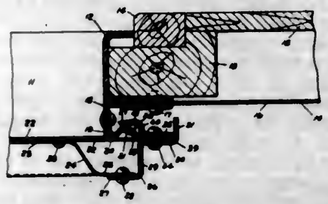
1. A machine for blanking and forming paper sandals comprising a pair of rotary shears disposed in staggered relation for successively cutting the side edges and portions of the ends of sandal blanks from a moving strip of paper, a plate for folding a side of the blank constituting a portion of the sandal upper as the fabricated blanks pass thereby, an adhesive applicator adjacent thereto for gumming the folded upper and an end portion of the blank constituting the toe of the upper, a plate for folding the other side of the blank adjacent said adhesive applicator, a rotary shear adjacent the last named plate for cutting the end portions of contiguous blanks, mechanism adjacent thereto for folding a severed toe portion of the blank, and rolls having an all-over design thereon adjacent the folding mechanism for embossing the paper sandal thus formed.

2,588,133
PNEUMATIC OPERATING MEANS FOR RAILWAY DUMP CARS
Einar O. Lunde, Wyckoff, N. J., assignor to Magor Car Corporation, New York, N. Y., a corporation of Delaware
Application December 28, 1948, Serial No. 67,631
11 Claims. (Cl. 105—273)



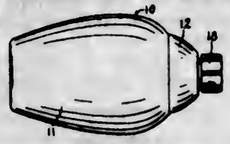
1. Pneumatic operating mechanism for a dump car including a body pivotally supported on a frame; comprising a cylinder pivotally supported by the frame, a piston in the cylinder and having a rod pivotally connected to the body in laterally spaced relation to the pivotal support for the body, a source of air under pressure, a control valve mechanism disposed between the cylinder and the air source and having inlet and exhaust valves, a lever having pivotal connections with the individual valves, and manually operable means for actuating the lever for alternately closing the exhaust valve and opening the inlet valve for supplying air to the cylinder and closing the inlet valve and opening the exhaust valve to exhaust air from the cylinder.

2,588,134
WEATHERTIGHT SLIDING CAR DOOR
Gabriel Madland, Chicago, Ill., assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Application September 3, 1947, Serial No. 771,978
4 Claims. (Cl. 20—21)



1. In a railway house car having a wall provided with a door opening, a spark strip carried by said wall and having a rearwardly and outwardly inclined flange spaced from said wall, a sliding door for closing said opening, a rigid substantially Z-shaped member having a flange secured to and along the rear margin of said door and a forwardly and outwardly inclined flange spaced inwardly of said door, and a flexible substantially Z-shaped sealing strip having a flange disposed under said first mentioned flange of said member for securing said flexible sealing strip to said door and a forwardly and inwardly inclined flange disposed between and spaced from said door and said second mentioned flange of said member and cooperating with said rigid Z-shaped member to form a forwardly opening pocket, said inclined flanges of said member and sealing strip engaging the inner face of said spark strip flange in spaced relation to each other when said door is closed, for the purpose set forth.

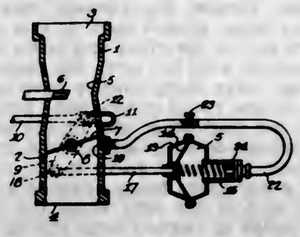
2,588,135
SYRINGE
Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application July 15, 1949, Serial No. 104,905
15 Claims. (Cl. 128—232)



7. In a syringe, an elastic bulb-like body having a discharge portion, and a reversible hollow douche element adapted to be secured in said discharge portion with said element extending inwardly into the body and having at its butt end portion provisions for mounting a closing cap closing off the interior of the douche element, the distal end of the douche element being provided with a liquid-discharging opening and said distal end in the secured inwardly extending position of said element abutting the bulb-like body to close said opening.

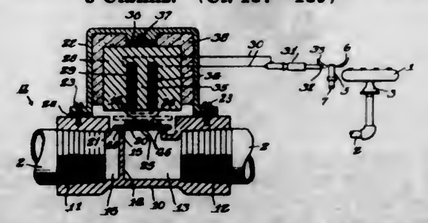
15. In a syringe, an elastic bulb-like body having a screw-threaded discharge portion, an annular seat integral with said body and located internally and between the ends of said discharge portion, and a douche pipe adapted to be screwed into said discharge portion, said douche pipe carrying an annular shoulder adapted to make contact with said seat to prevent leakage of liquid from the bulb-like body.

2,588,136
CHARGE CONTROL VALVE MECHANISM FOR INTERNAL-COMBUSTION ENGINES
Marion Mallory, Detroit, Mich.
Application November 12, 1947, Serial No. 785,460
5 Claims. (Cl. 123—103)



1. In combination with the intake passageway for an internal combustion engine through which the motive fluid for the engine flows, a throttle shaft rotatably mounted in said passageway, a throttle valve supported on said shaft in the intake passageway, a push and pull throttle rod having a lost motion connection with said throttle valve shaft so that movement of the throttle rod in one direction will positively close said valve and movement of the throttle rod in the opposite direction will free said valve for opening movement, an orifice positioned in the intake passageway on the engine side of said throttle valve in a plane which passes through the throttle shaft and which is perpendicular to the flow of motive fluid and in that portion of the intake passageway through which all of the motive fluid for the engine flows, a suction device, a connection between the suction device and the throttle valve, resilient means tending to move said throttle valve toward closed position, and a conduit connecting the suction chamber of said suction device with said orifice whereby when said throttle rod is moved in a throttle opening direction the intake passageway vacuum acts through said suction device to move said throttle valve gradually to open position and thereby avoid overcharging the engine.

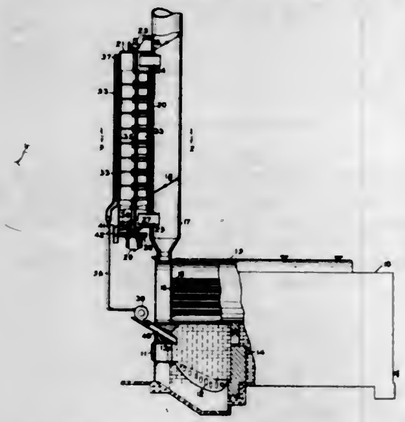
2,588,137
DEVICE FOR CONTROLLING FLUID FLOW
Philip R. Marvin, Wauwatosa, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application March 10, 1947, Serial No. 733,593
5 Claims. (Cl. 137—139)



1. In a gaseous fuel control valve, in combination, a valve body having an outlet port surrounded by a valve seat and communicating with an outlet chamber, a first thin, light weight disc valve of planar form adapted to seat upon said valve seat, said valve body having an inlet chamber on the same side of said first valve disc as said outlet port and said outlet chamber, said valve body having a static fluid pressure chamber in communication with said inlet chamber and disposed adjacent said valve seat, said static fluid pressure chamber being disposed on the opposite side of said first valve disc, said first valve disc extending peripherally beyond said valve seat and over said inlet chamber whereby fluid entering said inlet chamber is adapted to act directly against the peripheral extension of said first valve disc, said first valve disc having an outer diameter slightly less than the inner diameter of the adjacent portion of said pressure chamber to provide only restricted communication between said inlet chamber and said pressure chamber around the periphery of said first valve disc, said first valve disc having a port opening therethrough from said pressure chamber to said outlet chamber, a second thin light weight disc valve of planar form disposed in said pressure chamber and adapted to seat upon said first valve disc to close said port, the port through said first valve disc being of a size for the flow of gas out therethrough from said pressure chamber to said outlet chamber faster than it will flow into the pressure chamber around the periphery of said first valve disc when said second valve disc is unseated and the annular

area of the first valve disc which is exposed to the pressure in the inlet chamber being of such character that the upward forces will overbalance the downward forces when the second valve disc is unseated with a resulting unseating of said first valve disc, the downward forces on the first and second valve discs when the second valve disc is seated overbalancing the upward forces with a resulting seating of said first valve disc, and means for unseating said second valve disc.

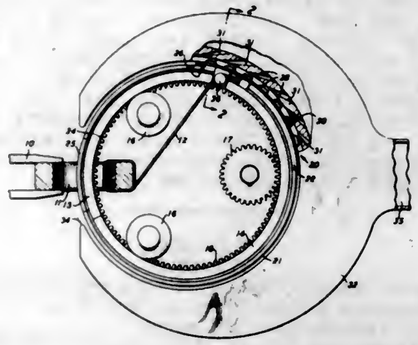
2,588,138
FLY ASH ARRESTER
Willard B. McBurney, Atlanta, Ga.
Application September 20, 1950, Serial No. 185,769
4 Claims. (Cl. 183—77)



1. Apparatus of the class described comprising, a stack for receiving products of combustion, upper and lower adjustable means for controlling flow of gases through said stack, a substantially cylindrical shell adjacent said stack, said shell having closed upper and lower ends, inlet means for admitting gases from said stack to said shell, outlet means for returning gases from said shell to said stack, said inlet means being connected to said stack below said lower adjustable means, said outlet means being connected to said stack between said upper and lower adjustable means, a shaft extending axially through said shell and journaled for rotation therein, means for rotating said shaft, a fan mounted on said shaft for rotation therewith to assist the passage of gases from said stack through said shell, impeller blades mounted for rotation with said shaft for imparting a swirling motion to gases in said shell, said shell having a longitudinal split and having a lip flaring outwardly along said split for the passage of ash outwardly through said split, and a cover over said split forming a channel for the passage of ash downwardly beside said shell.

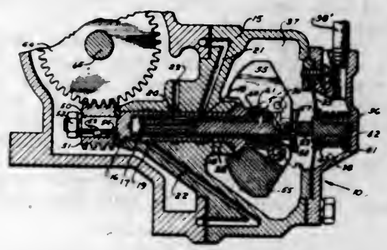
2,588,139
FLYER MECHANISM FOR TOROIDAL COIL WINDING MACHINES
Rollin H. McCarthy, Madison, N, J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 16, 1949, Serial No. 116,114
13 Claims. (Cl. 242—4)

1. A flyer mechanism in a toroidal coil winding machine wherein an annular shuttle for a supply of wire is driven about its axis through an annular core on which the wire is to be wound, the flyer mechanism comprising an arcuate element supported for movement in a circular path about the periphery of the shuttle and having a portion to guide the wire from the shuttle around portions of the core, a pocket mounted on the



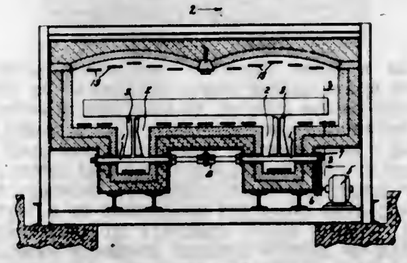
outermost surface of the element beyond the periphery of the shuttle, and an impelling means to direct a fluid under pressure toward the periphery of the shuttle to contact the pocket and cause the element to move about the shuttle.

2,588,140
FLUID CONTROL DEVICE
Forest R. McFarland, Huntington Woods, Herbert L. Misch, Ferndale, and Jerald E. Foley, Detroit, Mich., assignors to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application February 1, 1946, Serial No. 644,850
11 Claims. (Cl. 74—472)



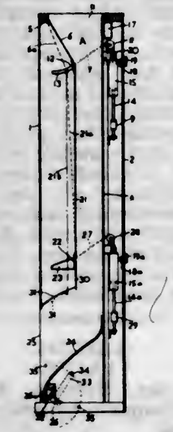
1. A device for controlling flow in a pressure fluid system comprising housing means having a fluid inlet, a fluid outlet and a vent, a pair of relatively shiftable nested valve members in the housing means, each of said valve members having passage means, the passage means in the inner valve being always open at one end to the fluid outlet and at the other end being at times in communication with the vent, the passage means in the outer valve being always open to the fluid inlet and in one range of positions being aligned only with the said other end of the inner valve member passage so as to admit fluid under pressure through the inner valve to the outlet passage, said outer valve being adapted to close the said other end to the vent when the passage in the outer valve is aligned with the other end of the inner valve passage, speed sensitive means for shifting the outer valve member, and variable fluid pressure responsive means for shifting the inner valve member.

2,588,141
CONTINUOUS TYPE FURNACE
James L. McFarland, Schenectady, and Norman B. Jones, Ballston Lake, N. Y., assignors to General Electric Company, a corporation of New York
Application September 22, 1948, Serial No. 50,506
2 Claims. (Cl. 263—8)



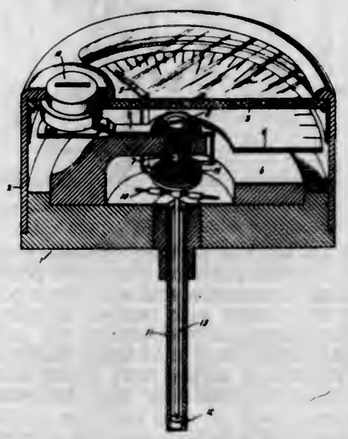
1. A horizontally disposed furnace of the type adapted for continuous conveyor operation having a plurality of parallel insulated recesses in the floor of the furnace heating chamber and extending longitudinally through said furnace, a plurality of rollers extending transversely through one of said recesses, an equal number of rollers extending transversely through each of the other recesses, means supported by said rollers for propelling work through the furnace, means external to said heating chamber for connecting together corresponding rollers in separate recesses, and means external to said heating chamber for driving said rollers in synchronism to actuate said work propelling means.

2,588,142
PACKAGE DELIVERY CHUTE
Peter T. McQueen, Milnathort, Scotland, assignor of one-third to William Watson Bowie and one-third to Herbert Gibson, Edinburgh, Scotland
Application February 20, 1948, Serial No. 9,815
In Great Britain July 9, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires July 9, 1966
8 Claims. (Cl. 193—32)



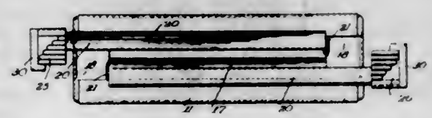
1. In a package delivery chute, a retarding wall movably suspended from a fixed support in an inwardly and downwardly inclined direction within the chute, a cushioning wall movably suspended at its upper end from said retarding wall, and resilient means normally holding said walls in a position to engage a descending package within the chute and controlling yielding movement of said walls to control the rate of descent of the descending package under the pressure of the package thereon.

2,588,143
GAUSS METER
Lewis I. Mendelsohn, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application February 17, 1950, Serial No. 144,751
5 Claims. (Cl. 175—183)



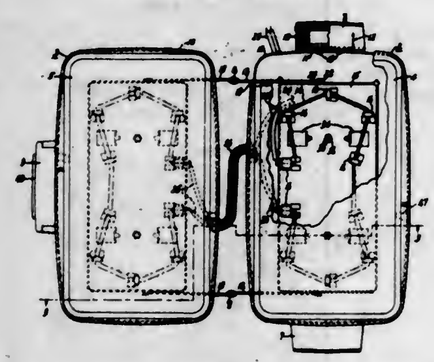
1. A gaussmeter comprising a shaft, a structure rotatively supporting said shaft, means for resiliently resisting rotation of said shaft relative to its supporting structure, a scale on said structure, a pointer on said shaft indicating on said scale, said shaft including a portion made from anisotropic magnetic material having a permeability of about six and which will saturate between 2000 and 3000 gausses and having its anisotropic axis at right angles to the axis of rotation of said shaft, the portions of said shaft and structure adjacent to said anisotropic portion being of nonmagnetic nonconducting material.

2,588,144
JOINTED FLUORESCENT LAMP FIXTURE WHICH MAY BE COLLAPSED FOR SHIPMENT
Louis Mided and Henry C. Gorden, Chicago, Ill., assignors to Good Manufacturing Company, Inc., Chicago, Ill., a corporation of Illinois
Application March 18, 1947, Serial No. 735,454
13 Claims. (Cl. 240—51.11)



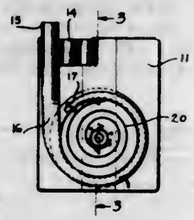
3. An electric lighting fixture for straight tubular lamps, comprising a pair of lamp supporting heads, an arm attached to each of the heads, an intermediate support to which each arm is hinged, the hinge of one arm being at an angle to the hinge of the other arm so that each head will fold over the opposite end of the support free and clear of the other head and substantially parallel thereto.

2,588,145
ELECTRIC COOKING APPLIANCE
Homer H. Miller, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application February 11, 1950, Serial No. 143,728
5 Claims. (Cl. 99—376)



1. In an electric cooking appliance, an upper portion, a lower portion, said upper portion having a hinge connection with said lower portion for hinging movement with respect thereto, electrical interconnection conductors for conducting electrical power from said lower portion to said upper portion, a helical wire guard having enlarged ends surrounding said interconnection conductors, each of said portions including an outer shell, and a heat-generating element therein, each of said shells including a slot of less width than said guard diameter extending from the edge of said shell to an enlarged circular opening removed from said edge for the reception of said interconnection conductors and said guard, said circular opening being of substantially the same diameter as the intermediate section of said guard, said slot permitting insertion of said assembled conductors and guard into said circular opening with the enlarged guard ends within respective of said shells, removable grids carried by respective of said outer shells, and means on said grids closing said slots.

2,588,146
CIGARETTE NOVELTY
Waldemar Walter Miller, Henderson, Nev.
Application February 10, 1950, Serial No. 143,443
4 Claims. (Cl. 272—27)



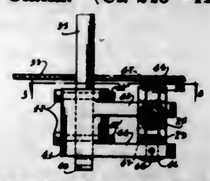
1. A practical joke cigarette novelty comprising an imitation open cigarette pack, a retracting mechanism mounted within said pack, an extendable cigarette dummy secured to said retracting mechanism, mechanism tending to hold said retracting mechanism against retracting movement, and means for releasing said holding mechanism causing said dummy cigarette to be retracted.

2,588,147
FENCE STRUCTURE
Jolly L. Morris, Ellwood City, Pa.
Application February 11, 1950, Serial No. 143,687
4 Claims. (Cl. 256—73)



1. In a fence structure, the combination of spaced apart anchor posts adapted to be firmly fastened to the ground, at least one intervening post between the spaced apart anchor posts and having a base member adapted to rest upon the surface of the ground, an upper and lower railing member pivotally connected between each two adjacent posts for movement in a vertical plane, spaced apart openings in said railings adapted to receive upright members extending between said railings and removable fastening means cooperating with the lower railing and each upright member to hold each upright member in position in the upper and lower railings said upright members being free to move vertically in the openings in the upper railings.

2,588,148
RAILWAY SWITCH JOINT
William G. Morris, Statesville, N. C.
Application February 16, 1951, Serial No. 211,298
1 Claim. (Cl. 246—412)

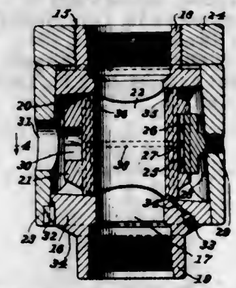


In a railway switch operating mechanism a movable switch track, a switch rod connected to said track for actuating the same, said rod having at one end a pair of vertically spaced arms, a switch stand having a vertically disposed rotatable operating shaft provided with a lower end portion projection below the switch stand, said lower end portion of the operating shaft having a pair of axially spaced lugs, each of said lugs arranged to overlap a corresponding arm on said movable switch rod, separate pivot means connecting each overlap lug and arm of the pair so that in the event one of the pivot means becomes defective the other pivot means prevents the separation of the switch rod from the shaft, and means for detachably connecting the arms and lugs to said switch rod and operating shaft, the pivotal connection of said arms and lugs normally being positioned under the stand, to prevent the removal of the arms from the lugs, said arms and lugs when swung outwardly to clear the stand being detachable from each other.

2,588,149
VALVE
Robert A. Mueller, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a corporation of Texas
Original application April 8, 1944, Serial No. 530,171, now Patent No. 2,442,548, dated June 1, 1948. Divided and this application February 26, 1945, Serial No. 579,763
6 Claims. (Cl. 251—91)

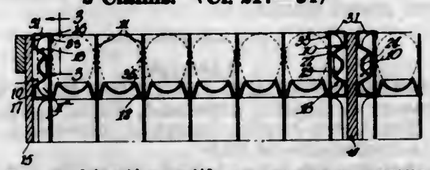
1. A valve comprising a tubular one piece body having a flow passage therethrough, said passage

having a threaded portion at one end thereof to connect the valve into a flow tubing, a seat intersecting said passage, a rotary flow control plug in said seat of such length as to be entirely within said body, a sleeve embracing said body



and plug and fixed against rotation with respect to said body, abutment provisions between said sleeve and plug for positioning the plug in said seat, and an opening in the sleeve at one end of the plug through which the latter may be manipulated.

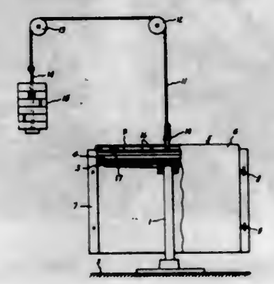
2,588,150
EGG PACKING MATERIAL
Arthur W. Nelson and Torris H. Alfreds, Park Ridge, Ill., assignors to Mapes Consolidated Manufacturing Company, Griffith, Ind., a corporation of Delaware
Application December 7, 1946, Serial No. 714,716
3 Claims. (Cl. 217—34)



3. In combination with an egg case compartment having opposed pairs of upright side walls and packed with a plurality of pad members and intermediate fillers composed of intersecting strips defining egg receiving cells, a packing device disposed between each of one of a pair of side walls of the case and adjacent outer strips of one of the uppermost fillers in said compartment, each device including a strip like body portion, one flat face of which is engaged with an associated upright wall, and means on the other face of the body portion providing pairs of longitudinally spaced shoulders disposed upon opposite sides of the tips projecting from the associated outer strip of the filler for limiting the bending of said tips in the shifting movement of said filler and eggs therein toward the associated upright wall, said body portion of each device having top and bottom edges, and means projecting laterally from one of said edges of each device and crossing and having a hooked engagement with an associated outermost strip of said filler.

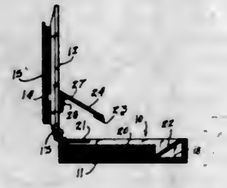
2,588,151
APPARATUS FOR PRODUCING UNIFORM FOAM STRUCTURES
John D. Nelson, James J. Pyle, and James W. Underwood, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application September 30, 1948, Serial No. 51,904
3 Claims. (Cl. 18—39)

1. Apparatus for forming cellular molded phenolic parts comprising an open-topped receptacle to receive a potentially self-expansible phenolic resin, a perforated form adapted to enclose said receptacle, said form and said receptacle being movable relative to each other in a substantially vertical direction upon ex-



pansion of said phenolic resin, and counterbalancing means connected to one of said forms and receptacle, said counterbalancing means being directly responsive to the expansion of the self-expansible resin for controlling the relative movement of said form and receptacle.

2,588,152
NOTE PAPER EJECTING ADDRESS BOOK
Richard Newman, Forest Hills, N. Y., assignor to Newman Exclusive Gift Mfrs., Inc., New York, N. Y.
Application March 1, 1950, Serial No. 147,045
6 Claims. (Cl. 312—51)



1. A desk accessory comprising a box-like receptacle for a stack of note paper sheets, a hinged cover for said receptacle, a liner member in said receptacle located beneath said stack and at the side of said receptacle at which said cover is hinged extending upward and over said stack resiliently to hold the latter in place, said liner at its other side being inclined upward to the edge of the container, and means mounted on said cover and actuated by the closing thereof to feed the topmost sheet of the stack up said incline and out of the receptacle, said means including a block secured to said cover, a metal stiffener plate substantially thinner than said block, a flexible sleeve enveloping said plate and said block, and secured to both with a short space of slack sleeve between the block and plate, and a rubber tab secured to the free end of the sleeve enveloped plate.

2,588,153
METHOD OF MAKING METAL HYDRIDE
Ames S. Newton, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application March 4, 1947, Serial No. 732,257
2 Claims. (Cl. 23—14.5)

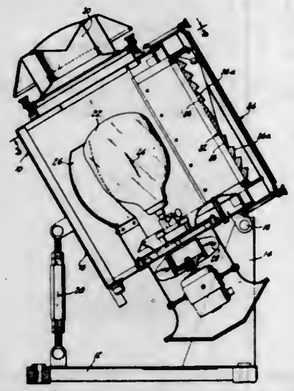
2. A process for the production of uranium hydride of high bulk compressibility which com-

prises subjecting uranium metal at a temperature of 500° to 700° C. to the action of hydrogen



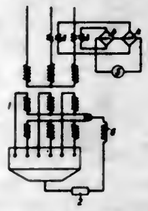
under a pressure of at least 1800 lbs. per square inch.

2,588,154
HIGH-INTENSITY LIGHTING UNIT
Victor L. Oestnaes, Westfield, N. J., assignor to American Gas Accumulator Company, Elizabeth, N. J., a corporation of New Jersey
Application July 15, 1947, Serial No. 761,140
6 Claims. (Cl. 240—1.2)



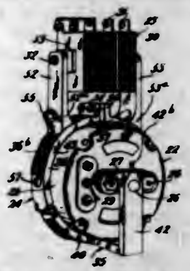
1. A lighting unit comprising a housing, a light source mounted within said housing, an optical system for projecting light from said source to cover a predetermined field diverging with respect to the axis of the system said system comprising an inner refractor mounted in said housing, said inner refractor having a plurality of refracting surfaces through which light rays from said source pass, said refracting surfaces being constructed and arranged to project a plurality of overlapping beams diverging in one plane, an outer refractor mounted in said housing, said outer refractor having a plurality of refracting surfaces through which the beams projected by said inner refractor pass, the refracting surfaces of said outer refractor being constructed and arranged to project a plurality of overlapping beams diverging in a plane normal to said first plane, the refracting surfaces of both said refractors being so located relative to said source that the maximum distance in either plane between non-diverging rays as emitted from said system is so limited that the apparent light source subtends not more than a few minutes of arc as viewed from any aspect point in said field within the normal intended range of use of said unit.

2,588,155
RECTIFIER CONNECTION
Håkan Öfverholm, Vasteras, and Harry Forssell, Ludvika, Sweden, assignors to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application September 10, 1947, Serial No. 773,240
In Sweden July 11, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 11, 1961
2 Claims. (Cl. 321—8)



1. Means for producing a direct current for measuring purposes, comprising a polyphase alternating current source, a polyphase load fed thereby, means for keeping the wave shape of the currents in the different phases of said load substantially independent of the wave shape of the voltages of said voltage source, single-phase full-wave rectifiers having alternating current inputs adapted to be fed individually by currents proportional to the currents of said alternating current phases and having direct current outputs, a closed circuit connecting said outputs in series, and current responsive means included in said closed circuit.

2,588,156
ALTERNATOR AND RECTIFIER MOUNTING
Robert C. Ogilvy, Cleveland, Ohio, assignor to The Leece-Neville Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1950, Serial No. 168,549
10 Claims. (Cl. 171—252)

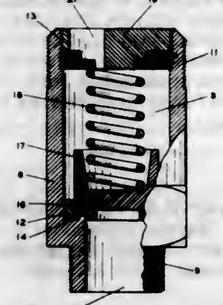


1. In alternator-rectifier apparatus, a mounting device comprising bracket means engageable with a support, band means connected with said bracket means and adapted to extend in embracing relation around an alternator for supporting said alternator, and a pair of arms carried by said band means and projecting outwardly therefrom in spaced apart relation and adapted for the mounting of a rectifier therebetween.

2,588,157
RELIEF VALVE
Andrew R. Olson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 19, 1946, Serial No. 663,469
4 Claims. (Cl. 137—53)

1. A pressure relief valve comprising in combination: a valve body comprising a smaller

cylindrical portion threaded externally, and continuous therewith a larger substantially cylindrical portion threaded externally and internally at the end opposite said smaller cylindrical portion and threaded internally at the end adjacent to said smaller portion, said body having a fluid conduit therethrough comprising a portion of smaller cross section and a portion of larger cross section; an annular, rigid valve seat, threaded on its periphery and disposed in said conduit adjacent to said portion of smaller cross section with its threads engaging said internally threaded body portion thereat; a rigid, moveable valve head comprising a lower, substantially cylindrical portion adapted so as to fit loosely



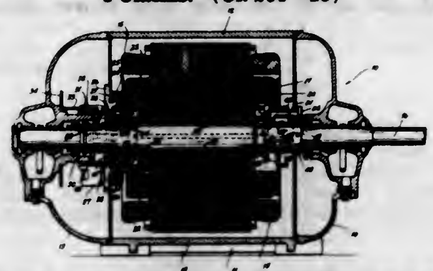
within said annular valve seat and extend substantially therethrough and an upper portion substantially square in cross section with rounded corners adapted to seat on said valve seat, and to fit slideably in said larger portion of said conduit; an end member containing outlet ports, rigidly affixed in the downstream end of said fluid conduit; a coil spring extending between said end member and said valve head so as to maintain pressure on said valve head to seat the same on said seat; and an annular sealing member composed of flexible, resilient material, having an inner diameter smaller than said fluid conduit, maintained in position by and disposed in said conduit adjacent to said valve seat.

2,588,158
RUBBER CUSHION DRIVE COUPLING
Thomas H. Peirce, Detroit, Mich., assignor to H. A. King, Detroit, Mich.
Application June 16, 1947, Serial No. 754,894
3 Claims. (Cl. 64—14)



1. A resilient coupling comprising coaxial, rotatable drive and driven members, and a one-piece, generally disk-shaped rubber body interposed between and bonded to said members, said members having relatively spaced interfitting fingers extending into said rubber body from opposite sides thereof and co-operating with said body to transmit torque from said drive to said driven member, the portions of said rubber body intermediate each pair of adjacent fingers provided with relief holes extending entirely through the body from one member to the other operative to accommodate displacement of material in the body when the latter is under compression in use, the end surfaces of said fingers and the surfaces of the members opposite said end surfaces being inwardly convergent and the angle of convergence being such that the projected surfaces intersect substantially on the rotation axis of said members to ensure uniform stress in the portions of said rubber body disposed between said surfaces during operation of the coupling.

2,588,159
CENTRIFUGAL ACTUATOR
Chester S. Phillips, St. Louis, Mo., assignor to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application April 4, 1946, Serial No. 659,452
6 Claims. (Cl. 264—15)

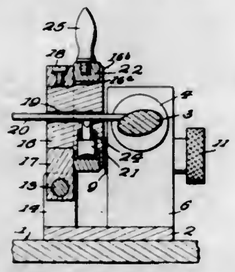


1. In a centrifugal actuator for use upon a shaft rotating about a predetermined axis; comprising a first axially movable member movable from a first to a second position along the shaft axis, a second member engageable onto the shaft; a pair of links pivoted together at their inner ends, one link being pivoted at its outer end to the first member and the other link being pivoted at its outer end to the second member, weight means on one of the links; the weight means being movable outwardly from an inner or starting position to an outer or running position, by centrifugal force, and thereby separating the two members aforesaid by moving the movable member from its first to its second position; means limiting the return movement of the parts to first position to one wherein the two links are at an acute angle to each other, the weight means being disposed on its link, when said link is in first position, at least substantially as close to the axis of rotation as is the outer pivot of its link, and the lengths of the links being slightly less than the distance between their outer end pivots when the movable member is in its second position, whereby when the movable member is so disposed the links are substantially 180° apart but their lengths preventing them from moving over center, the links thereby providing a toggle mechanism in which the mechanical advantage of the linkage in production of axial movement of the first member constantly increases as the weight means moves out.

2,588,160
NEEDLE HOLDING MEANS FOR HYPODERMIC NEEDLE HONING DEVICES OR THE LIKE
Ernest R. Post, Washington, D. C.
Application November 1, 1948, Serial No. 57,748
1 Claim. (Cl. 51—157)

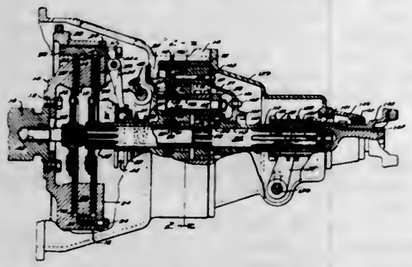
A needle holding device of the class described comprising a circular ring-like frame having a circular bore and a lower widened portion with a bore therein, a shaft engaged through the bore of the lower widened portion to slidably support the frame, a stepped annular body having a radially reduced outer portion rotatably mounted in the circular bore for rotational adjustment and an enlarged inner portion forming an outwardly facing annular circumscribing radial

shoulder disposed against the inner portion of the inner annular face of the frame, a set screw radially threaded through the top of the frame to engage the periphery of the reduced outer portion of the body and hold the latter in adjusted position, the inner end of the body having an integral annular radial flange, a ring rotatably mounted on the enlarged inner portion of the body between and in contact with the frame and flange, said ring having a plurality of successive tapered, arcuate recesses around its inner face forming wedging cams, a similar number of equidistantly spaced radial gripping pins slidably mounted in radial bores in the enlarged portion of the body with convex outer



ends conforming to the inner faces of the recesses and reduced tapered inner ends slidable in reduced inner portions of said radial bores and forming inwardly facing shoulders, said radial bores having annular outwardly facing shoulders therein at the outer ends of the reduced portions thereof, springs on said reduced portions between said inwardly and outward-facing shoulders to force the pins against said cams, and a radial knob on the ring periphery to turn the ring in a limited arc in opposite directions with the rotational range allowed by the rotational adjustment and fixing of the body in the circular bore of the frame by the set screw to vary the gripping action of the tapered pins against the needle when the ring is turned in one direction and to release the same in the opposite direction.

2,588,161
TRANSMISSION MECHANISM
Karl K. Probst, Lansing, Mich.
Application March 27, 1947, Serial No. 737,487
12 Claims. (Cl. 74—765)



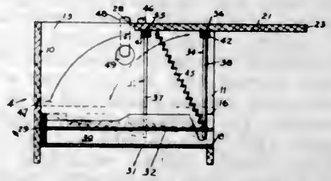
1. A variable speed transmission comprising a driving member, a pair of coaxial driven shafts, clutch plates mounted on each of said shafts engageable with said driving member, a final drive mechanism mounted on a first of said driven shafts a planetary gear system comprising a sun gear mounted on the second of said driven shafts, planetary gears driven by said sun gear and a ring gear driven by said planetary gears, a carrier having said planetary gears rotatably mounted thereon and a second gear coaxial with and connected to each of said planetary gears, means operable to hold said carrier against rotation to cause said gears to rotate about their own axes, means operable to hold said ring gear against rotation to cause rotation of said carrier and planetation of the gears about the axis of said driven shafts, a gear mounted on the first driven shaft drivable by said second gears mounted on said carrier, a sleeve coaxial with said driven shafts, a plurality of clutch jaws on said sleeve, one set of which is connected to said final drive mechanism at all times, a jaw connected to said carrier engageable by one jaw on said sleeve to drive said final drive mechanism at an emergency low forward speed, a jaw on said first driven shaft engageable also by the said one of said sleeve jaws for driving said final drive mechanism for all other forward speeds, a jaw connected to said ring gear and engageable with still another jaw on said sleeve for reverse driving of said final drive mechanism.

2,588,162
MAGAZINE TOOL HANDLE
Peter F. Riggio, Woodside, N. Y.
Application July 24, 1946, Serial No. 685,996
5 Claims. (Cl. 145—62)



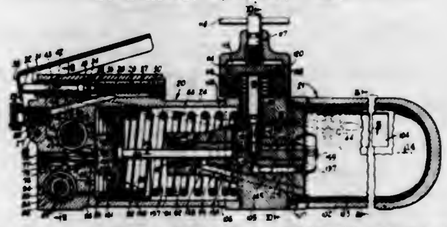
2. In a hand tool, a tubular casing having a cut-away portion intermediate its ends, a plug in one end of said casing and having an axial opening therethrough to receive the shank of an implement, a cover for the cut-away portion of said casing, a spring pressed plunger extending radially through said plug and into the opening therein to engage an implement shank and lock it in place, the outer end of said plunger being rounded and normally protruding somewhat beyond the periphery of said plug, and a ring-shaped member rotatable on said plug to engage the outer rounded end of the plunger and depress the plunger to lock an implement in the opening in said plug, said ring-shaped member having a lip extending from one end thereof to embrace an end of said cover to secure the cover to the casing.

2,588,163
DRAWER FOR TYPEWRITERS, INCLUDING ELEVATING TYPEWRITER SUPPORTS
Chester H. Ristenpart, Berkeley, and Joseph F. Detmayer, Madrone, Calif.; said Detmayer assignor to said Ristenpart
Application July 13, 1948, Serial No. 38,506
8 Claims. (Cl. 312—27)



1. In a desk having a top and a pedestal below one end thereof provided with a drawer opening adjacent said top, a horizontally elongated drawer slidable longitudinally thereof through said opening from an extended position projecting from said pedestal to a closed position within said pedestal, a horizontal support for a typewriter carried by said drawer and means mounting said support on said drawer for vertical movement of said support when said drawer is in said extended position from a lowered position of said support spaced below the level of said top a distance greater than that of the height of a typewriter adapted to be supported thereon to an elevated position partially offset laterally relative to the length of said drawer and relative to the support when in said lowered position and almost at the level of said top with the carriage of such typewriter above the upper surface of said top, said support being a platform and one edge of said platform being positioned to engage said drawer at a point above said opening when said platform is in said elevated position.

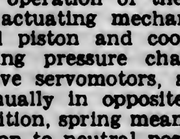
2,588,164
PNEUMATICALLY POWERED HYDRAULIC PUMP
James A. Roberts, Howard R. Fischer, and Marcel P. D'Haem, Detroit, Mich., assignors to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application April 7, 1948, Serial No. 19,478
16 Claims. (Cl. 103—48)



1. A pump comprising in combination a pneumatic portion, a hydraulic portion coupled to the pneumatic portion, and a reciprocable piston contained in part within each of said portions, said pneumatic portion being arranged to receive a pneumatic medium and having a passageway arrangement which directs an amount of said medium for motivation of said piston and another amount to the hydraulic portion, said hydraulic portion having an oil reservoir the volume of which can be decreased by action of said pneumatic medium, a check valve system including a liquid pressurization chamber, an oil delivery outlet located at the exterior of the pump, and connecting said outlet with said reservoir means forming a liquid return flow passageway, said check valve system being interposed between the reservoir and the outlet and further positioned so that a portion of the piston extends into the pressurization chamber, all arranged so that liquid is forced from said reservoir by action of the pneumatic medium, passes through the check valve system while being pressurized by action of the piston within the pressurization chamber, is delivered to the outlet under increased pressure, and is returned to the reservoir by the return flow passageway after pressurization ceases.

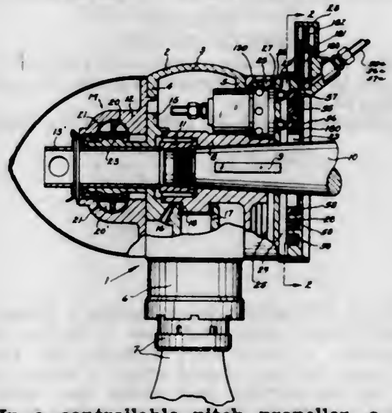
2,588,165
ELECTRIC SEAT ADJUSTER AND THE LIKE
Peter F. Rossmann, Depew, N. Y., assignor, by mesne assignments, to Hupp Corporation, Cleveland, Ohio, a corporation of Virginia
Application October 15, 1949, Serial No. 121,537
13 Claims. (Cl. 155—14)

5. In an electric seat slide mechanism, the combination which comprises a threaded driving shaft adapted for rotation by an electric motor in either direction, said shaft having a longitudinal slot and being arranged with its axis parallel to the movement of said seat, a first ring-shaped internally threaded side gear engaged by



said shaft, a second ring-shaped side gear having a number of teeth different from said first side gear and being provided with a key engaging slidably said slot, and idler gear means rotatably supported by said seat and meshing with both said side gears.

2,588,166
VARIABLE PITCH PROPELLER
Columbus R. Sacchini, Willoughby, Ohio, assignor to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application March 1, 1946, Serial No. 651,278
5 Claims. (Cl. 170—160.31)

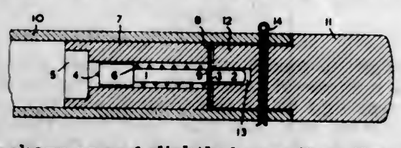


1. In a controllable pitch propeller, a pitch adjustable blade, two simultaneously and oppositely acting blades adjusting power mechanisms and means turned by said mechanisms to change the pitch of the blade, all rotatable with the propeller, a fluid operated actuating mechanism including servomotors respectively operable to cause operation of the blade adjusting means, said actuating mechanism including a double ended piston and cooperating cylinder means forming pressure chambers connected with respective servomotors, said piston being movable manually in opposite directions from a neutral position, spring means arranged to return the piston to neutral position after movement in either direction, and a by-pass valve system capable of communicating said pressure chambers, said system including spring means maintaining the by-pass open in the neutral position of the piston but closing the by-pass whenever the piston is moved in either direction from that position.

2,588,167
STRIKER FOR IGNITERS
Conrad David Schermuly, Alfred James Schermuly, and Charles Schermuly, Parkgate, Newdigate, England
Application September 4, 1946, Serial No. 694,683
In Great Britain February 23, 1945
4 Claims. (Cl. 42—69)

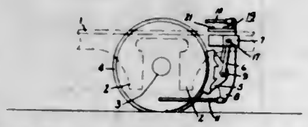
1. A device comprising a barrel portion, a

spring loaded striker in said barrel portion, a portion of said striker being of flattened cross-sectional shape and extending longitudinally axially at the rear end of said striker with a shoulder on the front end of said flattened portion, an apertured plate across the said barrel portion adjacent the rear end thereof at right angles to the longitudinal axis of the striker, said plate having an elongated aperture of the



same shape as and slightly larger than the cross-section of said flattened portion of the striker, said striker being rotatable relative to the plate, and a handle rotatable about its axis on the rear end of said barrel portion adapted to engage with said striker whereby said aperture may be aligned with the flattened portion of said striker, thus permitting free movement of said striker axially of said barrel.

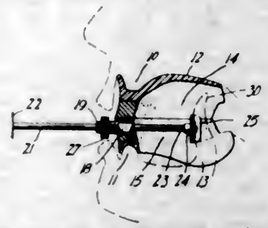
2,588,168
BRAKE RIGGING
William R. Schettler, Lawrence Park, Pa., assignor to General Electric Company, a corporation of New York
Application March 25, 1950, Serial No. 151,964
4 Claims. (Cl. 188—33)



4. In a rail vehicle truck having a frame with a supporting wheel and axle, a brake rigging comprising a brake shoe adapted for engagement with the rim of said wheel, a brake hanger lever for supporting said brake shoe and having an opening formed therein at its end remote from said brake shoe, a brake hanger lever support on said frame having an opening formed therein, said frame having an opening formed therein, a brake operating lever for applying said brake shoe extending through said frame opening and adapted for movement therein, a pin for pivotally securing said brake hanger lever to said support arranged in said openings in said brake hanger lever and said support, means for preventing said pin from moving axially in one direction, and an L-shaped brake hanger pin retaining and brake operating lever wear plate member having one leg portion removably secured to said frame and its other leg portion extending through said frame opening and adjacent an end of said pin for preventing said pin from moving axially in other direction, said other leg portion being arranged parallel to the movement of said brake operating lever for providing a wear plate to prevent wear on the sides of said frame opening by movement of said brake operating lever.

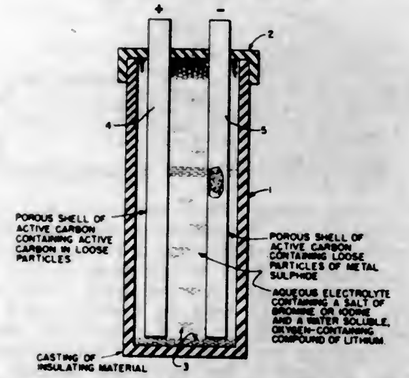
2,588,169
DENTAL IMPRESSION DEVICE
William T. Shea, Buffalo, N. Y.
Application April 7, 1950, Serial No. 154,506
7 Claims. (Cl. 32—19)

1. Means for use in dental bite blocks comprising a sleeve adapted to be anchored in the front central portion of a bite block with its axis generally horizontal and perpendicular to the front surface of the bite block, a rod slidable in said sleeve and having a manipulating portion adapted to extend outside of the bite block and



a generally vertical tongue pushing plate at the end of said rod adapted to be positioned interiorly of the bite block, and means for yieldably retaining the rod in axially adjusted position in said sleeve.

2,588,170
SECONDARY BATTERY
William Alvah Smith, Pittsburgh, Pa.
Application July 5, 1949, Serial No. 103,180
7 Claims. (Cl. 136—6)

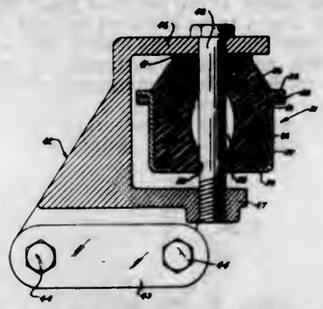


1. A secondary battery comprising a receptacle having therein an aqueous electrolyte containing a salt of a halogen selected from the group of bromine and iodine, a positive pole containing active carbon, and a negative pole containing a metallic sulfide with a component capable of uniting with the metallic ion of the electrolyte upon charge, said carbon and metallic sulfide being loose particles confined to a separate electrical conductor for the carbon and another for the metallic substance, and exposed to said electrolyte.

2,588,171
ENGINE MOUNT
Charles J. Smith and Fred J. Thoms, Dearborn, Mich., assignors to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application November 29, 1946, Serial No. 712,746
1 Claim. (Cl. 248—8)

An engine mount for resiliently mounting an internal combustion engine upon a motor vehicle frame, comprising, in combination, supporting means carried by said frame, a rubber block mounted upon said supporting means and having an aperture extending vertically therethrough, a coil spring embedded in said rubber block and engageable with said supporting means to transmit load directly thereto, supporting means

carried by said engine and arranged to transmit a portion of the weight of said engine to said rubber block and said coil spring, and a rod mounted vertically in said last-mentioned supporting means and extending through said aper-



ture in said rubber block, said aperture corresponding in diameter to the diameter of said rod adjacent the upper and lower portions of said rubber block and said aperture being enlarged intermediate its ends to provide clearance between said rod and said rubber block.

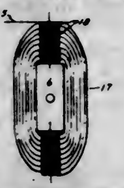
2,588,172
BUS BAR ASSEMBLY INCLUDING LONGITUDINAL SOLDER-FILLED RECESS
Benjamin L. Snavely, Takoma Park, and John V. Atanasoff, Fulton, Md.
Application December 27, 1948, Serial No. 67,323
8 Claims. (Cl. 173—324)



1. An assembly for use in forming electronic circuits having a plurality of circuit elements with common leads which comprises a plurality of bus bars each with a longitudinal recess in an outer surface having solder fluxed into the recess, a plurality of separating members, said bars being fixed to said members in spaced, parallel relation to one another, with the recesses all in an upward position, the ends of said bars being shaped in the form of connector plugs for insertion into mating detachable sockets.

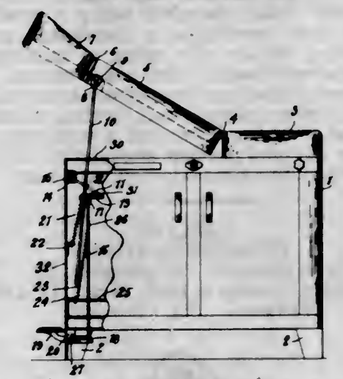
2,588,173
METHOD OF MAKING MAGNETIC CORES
Gareth G. Somerville, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application August 24, 1948, Serial No. 45,833
1 Claim. (Cl. 29—155.57)

The method of making a wound core having a plurality of lapped joints which comprises winding a strip of magnetic material into a closed loop having any desired number of layers, crimping said magnetic material back upon itself during the winding operation so as to cause successive layers of said closed loop to be separated at two diametrically opposite zones of said loop by an amount equal to at least the thickness of one of said layers, the crimped portions of said magnetic material all being aligned with respect to a plane extending transversely through said loop cutting through said closed loop and through all of the crimped portions of said loop along said plane,



removing the resulting crimped portion halves and interleaving the ends of the layers of the loop sections thus formed to produce a core having a plurality of lapped joints.

2,588,174
FOOT-OPERATED CLUTCH MECHANISM FOR PHYSICIAN'S EXAMINATION TABLES
Sam S. Spielberg, New York, N. Y., assignor to Brooklyn Hospital Equipment Co. Inc., Johnstown, Pa., a corporation of Pennsylvania
Application May 16, 1950, Serial No. 162,266
3 Claims. (Cl. 311—7)

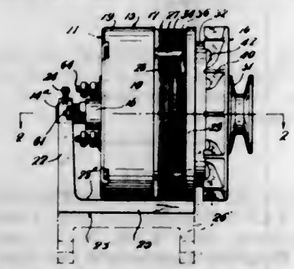


1. In a physicians' examining table, a cabinet table including a top having a pivoted upper section, a pedal pivotally mounted at the lower portion of the cabinet, a rod extending from said pedal, a pivotally mounted plate connected to the rod and caused to be pivotally moved toward horizontal position by depression of the pedal, said plate being provided with an aperture, a guide rod attached to the pivotal upper section of the top, said guide rod extending through the aperture in the plate and normally gripped by portions of the plate about the aperture and held against movement through said aperture, said plate being freed from engagement with the rod upon depression of the pedal, whereby the pivoted upper section of the table top may be moved to any desired angular position by the hands of an operator while foot pressure is maintained upon the pedal.

2,588,175
INDUCTOR ALTERNATOR
Seymour Floyd Stewart, Shaker Heights, and Albert D. Gilchrist, Lyndhurst, Ohio, assignors to The Leece-Neville Company, Cleveland, Ohio, a corporation of Ohio
Application September 23, 1950, Serial No. 186,400
3 Claims. (Cl. 171—252)

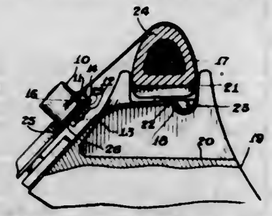
1. In an alternating current generator of the character described, a stationary hollow housing member comprising a transverse end wall and

an annular wall connected with said end wall and extending axially therefrom, annular seat means on said annular wall at the open end thereof, a fixed shaft mounted in said end wall and extending coaxially in said stationary housing member, a rotor mounted for rotation on said shaft and carrying a field winding, a rotatable annular housing member connected with said rotor for rotation therewith and disposed in axially spaced relation to said stationary housing member, a stator member surrounding said



rotor and disposed between said rotatable and stationary housing members and connected with the latter in engagement with said annular seat means, said stator member being a preformed assembly unit comprising a laminated annular member and an annular series of inductor elements mounted therein, said shaft having a portion thereof projecting rearwardly from said stationary housing member and forming a stem externally of the generator, and a supporting base having an upright portion engaged by said stem for mounting the generator on said base.

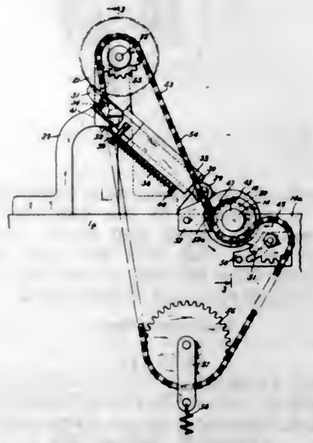
2,588,176
TELEPHONE LOCK
John Strauch, Philadelphia, Pa.
Application October 6, 1950, Serial No. 188,900
3 Claims. (Cl. 179—189)



1. For use with a French-type telephone having a handset and having a base equipped with a dial and an undercut shelf underlying the handset-rests; a locking-device comprising a clamp having an inturned engaging-lip at one end and having a lock at the other end, said engaging-lip being adapted to hook beneath the shelf with the clamp overlying the handset, said lock being constructed and arranged releasably to engage with the dial, thereby to prevent rotation of the dial and also to prevent lifting of the handset from the handset-rests.

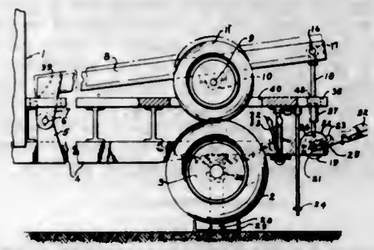
2,588,177
SPACING MECHANISM FOR SLIDE FASTENER MACHINES
Edmund E. Teubner, Upper Darby, Pa., assignor to Jacquard Knitting Machine Co., Inc., Philadelphia, Pa., a corporation of New York
Application September 5, 1947, Serial No. 772,317
7 Claims. (Cl. 74—112)

6. In a machine for affixing fastener elements to tape, a tape-feeding drum, a ratchet attached to said drum, a pawl to actuate said ratchet to rotate the tape-feeding drum intermittently, an endless chain associated with said ratchet for advancement by the ratchet, a driven roller, said chain passing over said roller and said roller having a shoulder, there being at least one member on said chain to be engaged by said shoulder to couple the chain to the roller for advancement by the roller intermittently, a guide for the chain to deliver said member into the path



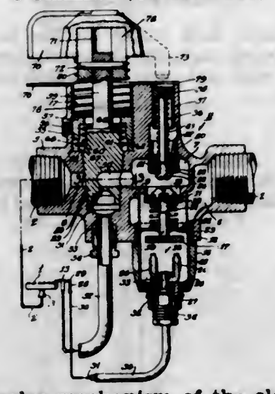
of said shoulder at substantially one definite point in said path, and an idler pulley over which the chain passes on leaving said roller, said pulley being adjustable in position to take the chain from the roller at different points to vary the length of the intervals during which the roller advances the chain and the roller rotating said tape-feeding drum, intermittently, through said chain at a higher speed than said pawl.

2,588,178
HOISTING EQUIPMENT
William H. Thompson, Wichita Falls, Tex.
Application September 1, 1948, Serial No. 47,258
4 Claims. (Cl. 254—166)



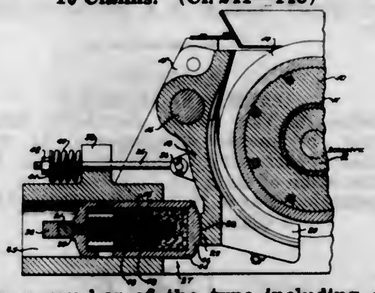
3. In a hoisting mechanism for a motor vehicle having a frame and dual drive wheels mounted thereon, a hoist frame, said hoist frame being pivotally mounted at one end to the frame of said vehicle for arcuate swinging movement of said hoisting mechanism relative to the dual wheels of said motor vehicle, an axle journaled transversely of said frame, wheels positioned on said axle and secured thereto and spaced intermediate said dual wheels for engagement thereby, a hoisting drum mounted on said axle and secured thereto intermediate said wheels, means for engaging the wheels of said hoisting mechanism with the dual wheels of said motor vehicle for driving relation therebetween, comprising eccentric means for moving said hoisting mechanism into and out of engagement with the wheels of said motor vehicle.

2,588,179
SAFETY CONTROL DEVICE
John H. Thornbery, Whitefish Bay, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 16, 1947, Serial No. 774,281
6 Claims. (Cl. 137—144)



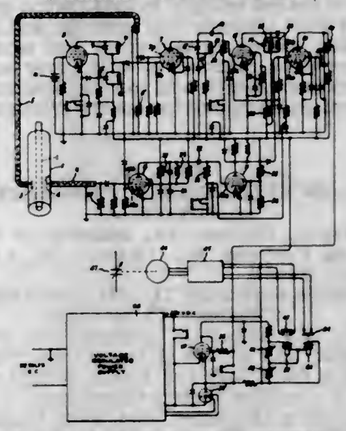
1. In a valve mechanism of the class wherein there is a valve body having a fuel inlet, an outlet for supplying fuel to a burner, a pilot outlet, a valve plug having port means and rotatable in said valve body in cooperation with said inlet, said outlet and said pilot outlet to open, closed, and pilot positions, and wherein said valve body has a plane outer surface, the combination with said valve mechanism of an electromagnet mounted on said valve body in position spaced laterally from the axis of said valve plug, a safety valve and connected armature structure having reciprocatory movement in said valve body in position spaced laterally from the axis of said valve plug and with the armature in alignment with the electromagnet, said safety valve and connected armature structure having one position in which the safety valve is closed and said armature is retracted from said electromagnet and another position in which the safety valve is open and said armature is attracted to the electromagnet, said valve body having a bore formed therein in position spaced laterally from the axis of said valve plug and coaxial with said safety valve and armature, said bore opening at its outer end through the plane surface on the valve body, a handle fixed on the valve plug outwardly of said plane surface to turn the valve plug to closed, open, and pilot positions and slidable on said valve plug in pilot position thereof, a reset finger extending laterally from said handle and turned inwardly at its outer end, the inwardly turned outer end of said finger being adapted to engage and slide over said plane surface with the turning movement of said handle and for self-entry into the outer end of said bore in pilot position of said handle, and reset means mounted for reciprocatory movement in the bore in the valve body and having its outer end exposed to the inwardly turned end of said reset finger when the valve plug is in pilot position, said reset means having its entire length at all times confined within the length of said bore, said reset finger being adapted to enter and move inwardly in the bore in the valve body and to actuate said reset means inwardly upon inward sliding movement of the handle on the valve plug in pilot position thereof, said safety valve and armature structure being positioned to be engaged and actuated to open the safety valve and to move the armature to attracted position by the inward movement imparted to said reset means.

2,588,180
JAW CRUSHER WITH HYDRAULIC RELEASE AND RESET DEVICE
Samuel William Traylor, Jr., Allentown, Pa.
Application June 11, 1948, Serial No. 32,514
10 Claims. (Cl. 241—148)



1. In a crusher of the type including a rigid frame, a positively actuated crushing jaw and a normally fixed, releasable crushing jaw, means for supporting the releasable jaw for displacement under the influence of abnormal crushing forces, comprising a unitary hydraulic self-contained, bodily removable piston and cylinder assembly having a liquid reservoir associated therewith, a body of liquid in said assembly, a normally closed, spring loaded valve adapted to be opened upon overload to deliver liquid from the cylinder to the reservoir and to permit displacement of the piston and release of the support, a return passage of restricted size from the reservoir to the cylinder, and a spring pressed plunger operatively associated with the reservoir for causing retarded return flow of liquid to the cylinder upon termination of said overload.

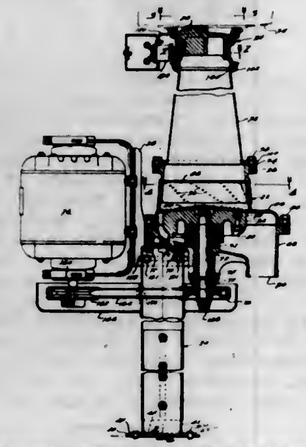
2,588,181
HIGH-FREQUENCY PHASE ANGLE RESPONSIVE CIRCUIT
Julius Vahle, Francis E. Goodness, and Paul D. Heath, Syracuse, N. Y., assignors to General Electric Company, a corporation of New York
Application November 26, 1948, Serial No. 62,172
2 Claims. (Cl. 172—245)



2. A phase angle responsive circuit comprising means for deriving a signal voltage respon-

sive to and in phase with the voltage in a high frequency electrical circuit, means for deriving a second signal voltage responsive to and out of phase with the current in said electrical circuit, and means utilizing said two signal voltages for deriving a third voltage responsive to positive and negative phase angles between the current and voltage in said electrical circuit, said means comprising an electron discharge device having a plurality of control electrodes, limiter means for impressing a signal derived from said first signal voltage on one of said electrodes, and limiter means for impressing a signal derived from said second signal voltage on a second of said electrodes.

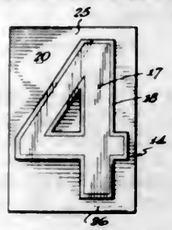
2,588,182
GARBAGE GRINDER
Cornelius W. Van Ranst, Dearborn, Mich., assignor, by mesne assignments, to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application March 10, 1947, Serial No. 733,469
7 Claims. (Cl. 4—187)



1. A control unit for a garbage disposal mechanism for association with a sink, said control unit being adapted to be mounted in the outlet of the sink and comprising a housing having a drain opening therein and including a portion defining a seat, a cover adapted to engage said seat to close said opening, cooperating means on said cover and housing engageable to support said cover in spaced relation to said seat to permit the flow of fluid through said opening, and other cooperating means on said cover and said housing adapted upon rotation of said cover to actuate an associated switch and to raise said cover from said seat and support it in spaced relation thereto.

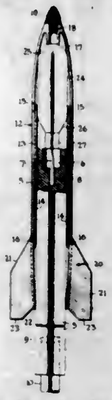
2,588,183
HOLLOW FLUORESCENT CHARACTER AND MOUNTING
Jule Vigon, Chicago, Ill., assignor to Precision Plastic Products, Inc., Chicago, Ill., a corporation of Illinois
Application September 21, 1951, Serial No. 247,660
1 Claim. (Cl. 40—134)

As a new article of manufacture, a display character unit of the character described comprising a front wall and a pair of side walls defining a chamber therebetween open at its back and forming character, said walls being formed of a mixture of fluorescent and plastic materials constituting same transparent fluorescent plastic walls, and a thin rectangular wafer of white, opaque plastic secured to said side walls closing



off said back, said wafer having its peripheral edges disposed outside the peripheral edges of said front wall and supporting said walls thereon.

2,588,184
TOY ROCKET BOMB
William Remington Walsh, East Orange, N. J.
Application August 18, 1947, Serial No. 769,255
7 Claims. (Cl. 46—74)

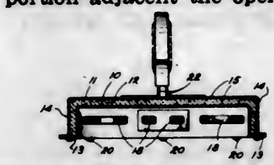


6. A toy rocket bomb device comprising, in combination, a streamlined hollow shell-like bomb element having flight stabilizing fins at its tail end and an opening through said tail end through which a compressed gas cartridge and a launching stick can be inserted and through which propelling gas from the cartridge can be emitted, a compressed gas cartridge in said shell-like element and having a discharge outlet directed toward said tail end opening and normally closed by a closure puncturable to permit emission of gas through the tail opening, and a flight launching and guiding stick having a cylindrical portion extending into the tail opening and embraced by said element and having provision for puncturing the cartridge closure to permit the gas to be discharged therefrom to initiate and sustain flight of said element, said element having a plurality of longitudinally extending inwardly directed circumferentially spaced ribs engageable with the exterior of the cartridge for frictionally retaining it in said element and also closely approximating the exterior of the cylindrical portion of the launching stick for guiding the flight of said element.

2,588,185
ELECTRICAL PAINT REMOVER
Theodore B. Walter, Oberlin, Ohio
Application May 2, 1950, Serial No. 159,525
3 Claims. (Cl. 219—29)

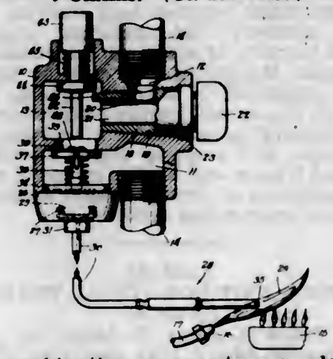
1. An electric paint burner comprising a rectangular shell, three depending side walls thereon

forming a housing having one side open, a handle affixed to said shell opposite to said open side, an electric flat tubular heating element having an electrical conductor therein insulated electrically from the covering tube, said element being supported by one of said side walls and having a portion adjacent the open side of the



housing, said portion extending along a substantial part of the opening between said side walls whereby radiant heat from the element is directed and confined to a surface for paint burning and projected from the housing through the open side thereof to pre-heat the surface to be burned.

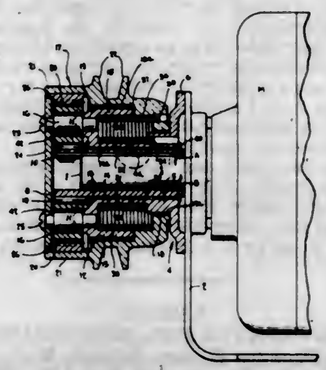
2,588,186
CONTROL DEVICE
Loerwood Wasson, Wauwatosa, Wis., assignor to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 13, 1945, Serial No. 628,291
7 Claims. (Cl. 137—139)



3. In combination, an armature, an electromagnet for holding said armature in attracted position, a reset member mounted for resetting movement for resetting said armature to attracted position, a control body having a passage, a valve plug rotatable in said control body and having a port movable into and out of cooperation with said passage, said valve plug having an end in proximity to said reset member, an abutment on said reset member, a resetting ring at the end of the valve plug in proximity to said reset member and having dog connection with said plug, and an abutment extending from said ring toward said reset member for cooperation with the abutment on said reset member to prevent resetting operation of said member when the valve plug is in open position.

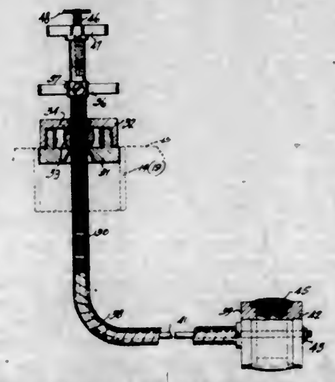
2,588,187
TWO-SPEED PLANETARY TRANSMISSION
Robert E. Weiser, Indianapolis, Ind., assignor, by mesne assignments, to The Marquette Metal Products Company, Cleveland, Ohio, a corporation of Ohio
Application July 1, 1949, Serial No. 102,593
2 Claims. (Cl. 74—789)

1. A transmission comprising a constant mesh planetary gear system including coaxial and independently rotatable sun gear, ring gear and panetary gear carrier elements, a stationary reactance element concentric with the carrier, and self-energizing, free-overrunning, helical coil spring friction brake and clutch connections respectively between (*a*) the reactance element and carrier and (*b*) the carrier element and ring gear element, the transmission operating to effect unidirectional rotation of the ring gear element at different speeds consequent upon turning of the



sun gear element in opposite directions the clutch and brake connections comprising two circular drums, both coaxial with and continually connected to the planetary gear carrier element, one an internal drum and the other an external drum, forming an annular pocket, and similarly wound helical friction clutching and braking springs respectively in overrunning self-energizing relationship to the clutch and brake drum and respectively in anchored relationship to the ring gear element and reactance element.

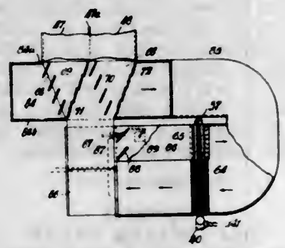
2,588,188
BACKWATER VALVE
Sam Weisman, Detroit, Mich.
Application January 8, 1951, Serial No. 204,906
2 Claims. (Cl. 182—17)



1. For use with a sewer system having an opening formed for normally receiving a closure cap and having a sewer line well below said opening, a unitary device insertable into said system through said opening and manipulable from outside said system for blocking said sewer line at a point remote from said opening, said device comprising an elongated tube, a closure cap for said opening having a central hole through which said

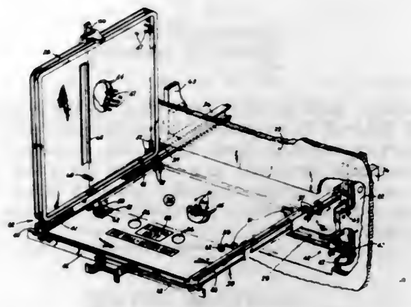
tube is inserted, means in said cap for providing a bearing for said tube in said cap, a handle on the upper end of said tube above said cap for moving the tube longitudinally with respect to said cap, the lower end of said tube being flexibly formed and having a plate fixed thereto, a flexible cable slidably disposed in said tube with its lower end projecting through and beyond the lower end of the tube and having a plate fixed thereto, a thick heavy rubber ring between said plates, the upper end of the cable projecting through and beyond the upper end of the tube and having a handle for sliding the cable in the tube and thus moving the cable plate to and from the tube plate for longitudinally compressing and radially expanding said ring or for releasing it for contraction, said tube handle being manipulable for adjusting the location of the ring relative to the cap by longitudinal movement of the tube in the cap, said tube and said cap being permanently interlocked to enable them together to form a unitary device, insertable into said opening as a unit, with said cap being stationarily mounted in said opening to serve as a permanent bearing for said tube.

2,588,189
APPARATUS FOR PRECOOLING
Broadus Wilson, Raleigh, N. C.
Application June 6, 1945, Serial No. 597,813
2 Claims. (Cl. 98—6)



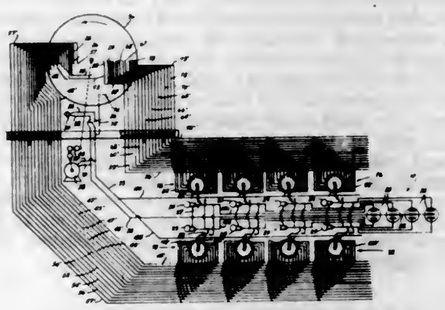
1. In a pre-cooler for railway refrigerator cars, means forming a chamber having first and second opposed side walls, and a top and bottom, a trapezoidal plate extending between said side walls in substantially parallel relation with and intermediate said top and bottom, a first opening in said first wall and having its lower edge coincident with the longer side of said plate, a second opening in said second wall and having its lower edge coincident with the shorter side of said plate, means forming first and second ducts in adjacent, side-by-side relations, secured within said first opening and including a partition having one end edge normal to and intermediate the ends of the long edge of said plate, a supply duct secured within said second opening, first, second, third and fourth series of pivoted shutters in said chamber adapted, when closed with contiguous edges in contacting relation, to form walls respectively, (1) between corresponding first side edges of said openings, one side edge of said plate and the top of said chamber, (2) between the first side edge of said second opening, said partition, plate, and the top of said chamber, (3) between the second side edge of said second opening, said partition, plate and the top of said chamber (4) between the corresponding second side edges of said openings, the other side edge of said plate and the top of said chamber, and means connecting the shutters of each series for movement in unison between open and closed positions.

2,588,190
ANALYZER AND TRANSFER UNIT IN TABULATING AND LIKE MACHINES
William Wockenfuss, Union, N. J., assignor, by mesne assignments, to Burroughs Adding Machine Company, a corporation of Michigan
Application June 13, 1946, Serial No. 676,520
20 Claims. (Cl. 101—93)



1. A transfer unit for the transmission of data from the analyzer of a tabulating machine to recording members thereof, said unit comprising a carrier insertable between said analyzer and recording members and including cooperating frames, a plurality of cooperating sectional transfer elements the sections of each of which are movably supported in different frames and the sections in one of said frames having normal positions relative to cooperating sections in the other frame, and a set-up device insertable between said frames and having means to alter the normal positions of certain of said sections relative to their cooperating sections.

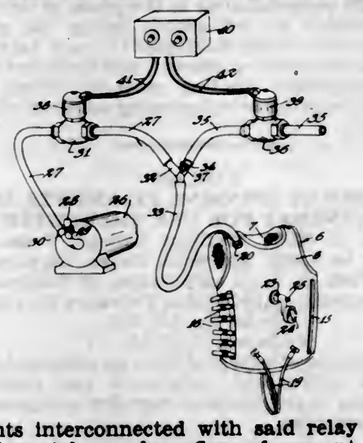
2,588,191
CONTROL UNIT FOR VISUAL TRAINING DEVICES
Frank M. Zuras, St. Louis, Mo.
Application June 9, 1949, Serial No. 98,041
18 Claims. (Cl. 128—76.5)



15. In combination, a visual training device containing at least two light sources; and means for selectively energizing the light sources in selected sequence for predetermined periods of time or for energizing them in unison for predetermined periods of time including a rotatable member containing a plurality of spaced conductors of various lengths, the conductors being insulated from the member and electrically connected to a common point.

2,588,192
ARTIFICIAL RESPIRATION APPARATUS
John D. Akerman and Vernon G. Townsend, Minneapolis, Minn.; said Townsend assignor to said Akerman
Application February 1, 1947, Serial No. 725,796
3 Claims. (Cl. 128—29)

1. An operating and control apparatus for a respirator of the type surrounding the chest and abdomen of the user, said apparatus having media for supplying fluid under pressure and for discharging fluid from a respirator, an electro magnetically operated supply valve interposed in said media and a second electro magnetically operated outlet valve interposed in said media, an electrically operated control system for operating said valves in opposite directions substantially simultaneously in a predetermined cycle, said control system comprising a vacuum tube circuit including two relay circuits, each connected to control operation of the associated valve, said vacuum tube circuit including components interconnected with said relay circuits to alternately produce flow of current in said relay circuits first to one and then in the other in a controlled, predetermined manner.



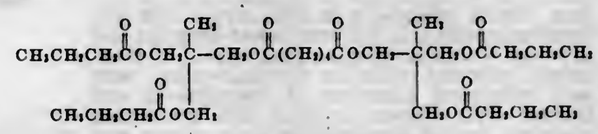
2,588,193
SPINNING AND TWISTING RING
George F. Albrecht, Saco, Maine
Application August 16, 1950, Serial No. 179,797
17 Claims. (Cl. 57—120)



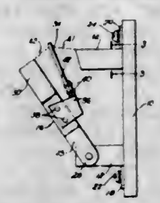
1. A spinning ring assembly comprising two coaxial annuli, one of said annuli being a traveler guiding ring of oil-absorbent material and the other annulus being a supporting ring shaped to define an annular channel having substantially cylindrical, radially spaced, concentric walls, the traveler guiding ring comprising a body portion having a bottom surface and coaxial, peripheral outer and inner surfaces, said body portion fitting snugly and oil-tight between the outer and inner concentric walls of the supporting ring, the body portion of the traveler guiding ring having a recess at the intersection of its bottom surface with its outer peripheral surface, said recess defining an annular channel for the reception of lubricant, and a reservoir for lubricant at the exterior of the supporting annulus, a passage leading from the reservoir through the outer wall of the supporting annulus to said annular channel.

2,588,194
SYNTHETIC LUBRICANT
Erving Arundale, Westfield, and John P. Thorn, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 22, 1950, Serial No. 202,438
2 Claims. (Cl. 260—485)

1. The compound having the formula—



2,588,195
CIRCUIT INTERRUPTER WITH ARC-EXTINGUISHING MEANS
Richard P. Ballou, Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J., a corporation
Application September 17, 1948, Serial No. 49,729
13 Claims. (Cl. 200—144)

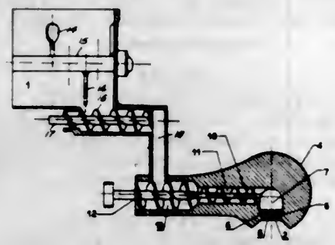


1. A circuit interrupter comprising a first contact member, a second contact member which is movable into and out of engagement with said first contact member for making and breaking the circuit, and an arcing contact member electrically insulated from said contact members, said arcing contact member being in fixed disposition relative to said second contact member and movable with said second contact member in the path of movement of said second contact member in position between the latter and said first contact member whereby an arc drawn between said contact members when they are disengaged is subdivided into a plurality of arcs.

2,588,196
PRESS FOR MACARONI
Luigi Barbieri, Parma, Italy
Application December 14, 1946, Serial No. 716,399
In Italy June 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 12, 1963
1 Claim. (Cl. 107—14)

An extruding screw press for pasty material comprising a chamber of elongated cross-section, a plurality of cylindrical chambers communicating with one end of said chamber, a pressing screw working in each of said cylindrical chambers and provided with a portion of enlarged outer diameter extending into said first mentioned chamber, the coils of said enlarged por-

tions intermeshing with each other, said first mentioned chamber completely and closely surrounding said screws except for a minor part thereof which is provided with a feeding aper-



ture, shafts integral with said screws and extending outside said first mentioned chamber and provided with intermeshing gear wheels, an elongated collecting chamber communicating with said cylindrical chambers at the opposite end thereof with respect to said first mentioned chamber, and an elongated die plate closing said collecting chamber.

2,588,197

PREPARATION OF SHAMPOOS

Herbert I. Bernstein and Charles F. Fuchs, Chicago, Ill., assignors to The Emulsol Corporation, Chicago, Ill., a corporation of Illinois

No Drawing. Application January 16, 1946, Serial No. 641,660

17 Claims. (Cl. 252—110)

1. An improved cream shampoo comprising a mixture of (1) a water-soluble salt of a higher molecular weight fatty acid amide of sulfated monoethanolamine, and (2) a water-soluble salt of a higher molecular weight fatty acid amide of a sulfated hydroxy-alkyl primary amine in which there is at least one lower alkyl radical directly attached to the carbon atom to which the alcoholic hydroxyl is attached, the higher molecular weight fatty acid radicals of said amides containing from 8 to 18 carbon atoms, (2) being present in proportions of about one to one of (1) to about three to one of (1).

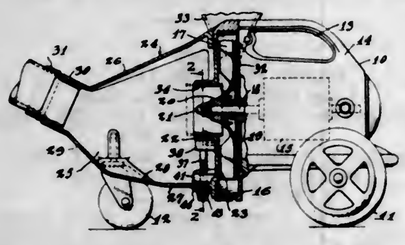
2,588,198

LITTER CONTROL FOR VACUUM CLEANERS

Julius J. Bevington, Toledo, Ohio, assignor to The B & R Manufacturing Company, Toledo, Ohio, a partnership

Application October 13, 1948, Serial No. 54,240

6 Claims. (Cl. 209—142)



1. Litter control device for a vacuum cleaner having a casing adapted to receive dust laden air and a vertically disposed centrally apertured partition separating the interior of the casing into a safety trap chamber and a suction chamber, said control device comprising a suction producing fan disposed within the suction chamber in close juxtaposition to the partition and having a hub provided with a nose-like baffle portion projecting into the central aperture from behind the periphery thereof and in a direction toward the safety trap chamber, and means for driving the fan.

2,588,199

STENCIL FRAME FOR SCREEN PRINTING

Theodor Bílý, Zandov u Ceske Lipy, Czechoslovakia, assignor to North Bohemian Machine Works and Foundries, National Corporation, Prague, Czechoslovakia

Application February 14, 1948, Serial No. 8,474

In Germany August 5, 1941

Section 1, Public Law 690, August 8, 1946

Patent expires August 5, 1961

2 Claims. (Cl. 101—127.1)



1. A support for printing stencils comprising in combination a tubular frame having flattened walls facing the frame opening, said walls being essentially perpendicular to the plane of the stencil, a dovetail shaped groove facing the stencil and extending longitudinally in said frame to surround the opening thereof, and an insert made of thermoplastic binding material filling said groove at least up to its opening edges to contact the stencil.

2,588,200

METHOD OF SPINNING FILAMENTS AND SPINNERET FOR USE THEREWITH

Rudolph S. Bley, Milligan College, Tenn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application February 23, 1950, Serial No. 145,909

8 Claims. (Cl. 18—8)

1. A spinneret provided with an adherent coating of a hydrophobic substance, said substance comprising a polymerized complex compound of the Werner type.

2,588,201

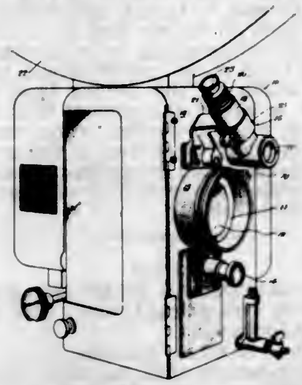
VIEWING TELESCOPE FOR IMAGE PROJECTORS

Willy Borberg, Astoria, N. Y., assignor to International Projector Corporation, Bloomfield, N. J., a corporation of Delaware

Application June 25, 1949, Serial No. 101,309

5 Claims. (Cl. 88—24)

1. The combination for use with a relatively remote screen upon which images may be projected; of a substantially fixed picture image projecting machine to project images onto the screen, including a projection light; a lens barrel and lens through which the light is directed in a divergent beam onto the screen to illuminate a comparatively large area thereof; means to focus the beam of light for optimum uniformity of light display on the screen and to present the projected images at their sharpest definition; telescope means secured to the motion picture projecting machine adjacent the lens barrel, said telescope being in close proximity to the lens barrel of the projecting machine, said telescope having a lens located near one end which is in substantial parallelism with the lens in the projecting machine lens barrel, and being directed upon the screen to enable the projectionist to view the screen visible through the telescope, and to focus the telescope while viewing said



screen, and thereafter, while viewing the screen directly through the fixed telescope to enable the projectionist to focus the picture image projecting machine to obtain the sharpest possible definition of the picture image on the screen.

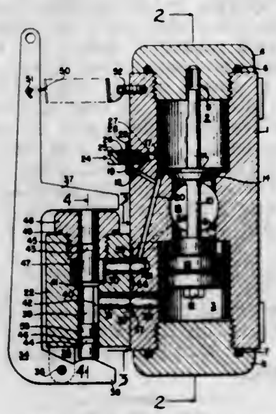
2,588,202

CONTROL VALVE

Robert J. Breit, San Antonio, Tex., and Herman C. Schroeder, Parma, Ohio, assignors to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware

Application April 6, 1946, Serial No. 660,262

1 Claim. (Cl. 137—139)



A fluid pressure responsive valve for use in high pressure hydraulic systems comprising a casing, a main valve body therein, an inlet and an outlet for pressure fluid in said main valve body, a valve stem with a disc having a seat within the main valve body for preventing pressure fluid flow from the inlet to the outlet in said main valve body, an adjustable pressure relief valve associated with the pressure fluid as received in the main valve body from the inlet, an auxiliary valve body, passages within the main valve body to direct fluid, under greater pressure than a predetermined setting of the relief valve, from the relief valve to said auxiliary valve body, an inlet and an outlet and a sump outlet in said auxiliary valve body, a valve stem with a disc having a seat within the auxiliary valve body to prevent pressure fluid flow from the inlet to the outlet, an operating lever pivoted to said auxiliary valve body and having two legs, each engaging one end of the valve stem, for displacing the valve stem disc from its seat and for closing off the sump outlet simultaneously thereby allowing pressure fluid flow from the inlet to the outlet, a passage in the main valve body to receive pressure fluid from the auxiliary valve body outlet and a piston secured to the end of the valve stem disc and operating in response to the receiving of pressure fluid in the main valve body from the auxiliary valve body for providing for a discharge from the main valve outlet.

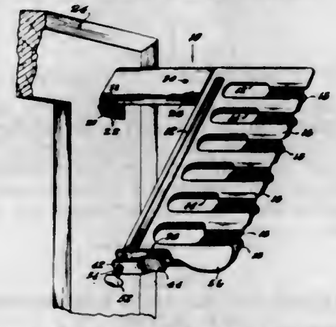
2,588,203

CURTAIN HANGER-PLEATER

Warren B. S. Cameron, Hillsgrove, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I., a corporation of Rhode Island

Application June 29, 1949, Serial No. 101,935

4 Claims. (Cl. 160—348)



1. A curtain hanger-pleater comprising a support, a first brace connected to said support, a second brace connected in sliding relation to the first brace, spaced upper jaws on the first brace, spaced lower jaws on the second brace in opposed relation to the said upper jaws, a longitudinally disposed threaded member engaging the second brace, and the first brace tapped to receive the said threaded member, whereby the opposed jaws are arranged to receive folds of a curtain and the threaded member is adapted to actuate the movable brace longitudinally of the first brace closing the jaws to clamp the curtain folds in place.

2,588,204

JOURNAL BOX AND HYDRAULIC SAFETY VALVE THEREFOR

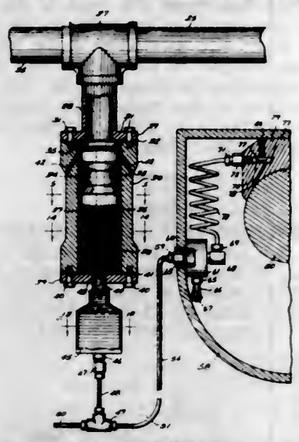
Iverson I. Cameron and Brower C. Spransy, Alexandria, Va.

Application June 26, 1947, Serial No. 757,214

1 Claim. (Cl. 246—169)

Apparatus for detecting overheating of a journal box comprising a valve including a casing and a piston in said casing, deformable cup washers in said casing at opposite ends of said piston valve, spring means in said casing in engagement with one of said deformable cup washers and urging said washer and piston toward one end of said casing, air vents in said casing adjacent one end thereof, and normally closed by said piston, means for connecting said casing to the air brake lines of railroad equipment, means for connecting the valve to the journal box of said equipment, said connecting means comprising a fluid reservoir connected to said valve, a flexible conduit connected to said reservoir, a line connector connected to the conduit and mounted in the journal box, a helically coiled

conduit connected to said connector and to an axle bearing, air under pressure in said first named means normally insufficient to shift the piston from normal position, resulting from combined spring and fluid pressure at the opposite end



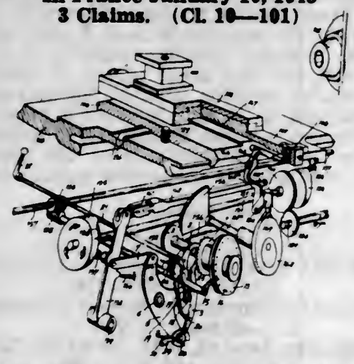
of the piston, and a solidified actuating material in said coiled conduit adapted to be liquified upon excessive heating of the journal bearing, whereby to permit the fluid pressure to be reduced and the piston to shift under air pressure and bleed the air brake lines through the vents for a brake application.

2,588,205

CONTROL MECHANISM FOR SCREW MACHINES

Xavier François Castelli, Paris, France, assignor to society called Societe Cri-Dan, Paris, France

Application January 8, 1946, Serial No. 639,774
In France January 10, 1945
3 Claims. (Cl. 10—101)



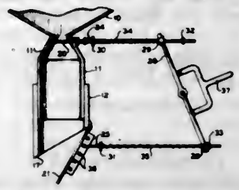
1. A device for forming multiple screw threads by using a screw machine of the type in which the longitudinal movement of the tool-holder is controlled by a rotative cam which is actuated by the driving spindle of the machine while the progressive transverse advance of the tool, after each cut, is controlled by another cam intermittently actuated by the same spindle, through the intermediary of a ratchet-wheel driven by a pawl, said device comprising, in combination, a removable and interchangeable rotating part mounted near the driving pawl of the ratchet-wheel which controls the cam for the transverse advance, means for intermittently actuating said part in synchronism with said driving ratchet, and means to establish, between the speed of the driving spindle for the work piece and the speed of the cam which controls the longitudinal movements of the tool, such a ratio that the rotation of said last cam corresponds to an integer number of complete revolutions of the spindle plus a fraction of the last turn equal to the inverse of the number of threads to be cut, said rotating part being given such an outline that, for a portion of an amplitude corresponding to an angular movement of one tooth of the ratchet-wheel, said part is without action on the driving pawl of said wheel which is left in engagement with the latter, whilst on the next portion, whose amplitude is equal to as many times that of the preceding portion as the threading comprises threads minus one, it maintains the pawl out of engagement with said ratchet-wheel.

2,588,206

DISPENSER HAVING AN INLET AND AN OUTLET VALVE FOR MEASURING THE QUANTITIES DISPENSED

Virgil R. Clark, Decatur, Ga.

Application July 23, 1947, Serial No. 762,984
1 Claim. (Cl. 222—349)



In a dispenser, an adjustable measure arranged to receive and contain the exact quantity to be dispensed, said measure having downwardly and outwardly divergent entrance walls, an inlet valve slidably mounted near the top of said measure to operate in conjunction with said divergent walls, an outlet valve mounted near the bottom of said measure, means for controlling said inlet valve and said outlet valve so that said inlet valve is closed before said outlet valve is opened and, alternately, so that said outlet valve is closed before said inlet valve is opened, said means comprising a rocker arm having bifurcated ends, an operating handle rigidly connected to said rocker arm, a guide pivotally mounted in each of said bifurcated ends, valve rods connected to said valves and slidably mounted in said guides, a spring coiled around each of said rods and held between an abutment on each of said rods and the guide in which said rod is mounted for pressing said valves to closed position, and means on the outer end of said rods cooperating with said guides for positively opening said valves.

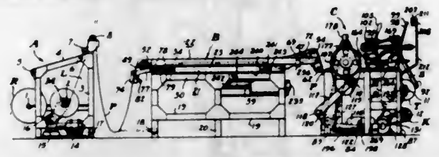
2,588,207

METHOD AND APPARATUS FOR MAKING TIRE PLY BANDS

Fred B. Cleland, Walter Baranecky, Chester R. Kolk, and Paul E. Wetzel, Akron, Ohio, assignors to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

Application February 23, 1949, Serial No. 77,882
39 Claims. (Cl. 154—9)

1. The method of making endless ply bands for use in building pneumatic vehicle tires which comprises supporting a carrier for movement about a closed path of predetermined length, advancing a strip of cord fabric material to the carrier while guiding the advancing strip over a predetermined feed path, securing the strip to the carrier and moving the carrier about the carrier path to lead the strip thereabout and thereby draw a first predetermined length of fabric material onto the carrier, severing the fabric length from the strip and joining the ends thereof to form a first annulus, shifting the carrier and the annulus laterally and simultaneously, similarly drawing a second predetermined length of fabric material onto the carrier and joining the ends thereof to form a second annulus laterally offset from the first, and removing the annuluses from the carrier simultaneously.



29. In apparatus for building multiple ply rubber reinforced bands for use in the manufacture of pneumatic vehicle tires, a cylindrical drum and means mounting the drum for rotation about a substantially fixed horizontal axis, a cylindrical roller smaller in diameter than the drum and means mounting the roller for rotation about a substantially horizontal axis parallel to the drum axis, the roller mounting means including means for shifting the roller bodily toward and away from the drum, an annular substantially inextensible, flexible carrier band trained about the drum and the roller under tension, said band having an arcuate work area portion directly supported on the top and sides of the drum and extending in substantially continuous contacting relation to the drum more than 180° about the drum circumference, conveyor means having a discharge end located on one side of the drum for supporting strip ply material advancing to the carrier band, said conveyor means including an element at the discharge end mounted for movement toward and away from the drum to provide support for ply material moving directly from the conveyor to a receiving point on the arcuate work area of the carrier band, means on the other side of the drum for carrying gum rubber stock to the carrier band, said last named means including an element mounted for movement toward and away from a transfer point on the arcuate work area of the carrier band spaced circumferentially about the drum from said ply material receiving point, and means for driving the drum to move the carrier band about the drum and the roller in drawing ply material onto the carrier band from the conveyor, the work area of the carrier band between the ply material receiving point and the gum stock transfer point providing an arcuate upwardly directed surface directly over the drum on which to join together the ends of a ply material strip drawn onto carrier band.

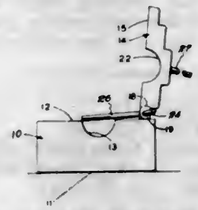
2,588,208

REST OR SUPPORT FOR CIGARETTES AND CIGARS

Martin F. Connellan, Pasadena, Calif.

Application August 6, 1947, Serial No. 766,730
3 Claims. (Cl. 131—257)

1. A support for a lighted cigarette or the like, comprising a base body having a top surface of a width materially less than the length of the cigarette, said top surface having a semi-circular recess formed transversely therein to receive the lighted end of the cigarette, a weight body adapted to position upon said top surface, a hinge connection between the weight body and the base whereby the weight body may be swung upwardly from the top surface, said hinge including a pintle pin, said weight body having an under face provided with a semi-circular recess transversely thereof and of the same radius as the first recess, said semi-circular recesses being joined upon the swinging of the weight body down to rest upon the top surface of the first body to form a circular cigarette holding passage, and a bar forming a right angular extension of one end of the pintle and movable with the weight body to assume a position across an end of the recess in the base body when the weight body is raised and to swing downwardly below the first mentioned recess when the weight body is lowered.

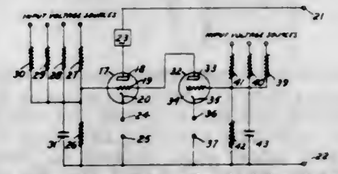


2,588,209

ELECTRONIC VOLTMETER WITH A PLURALITY OF INPUTS

Paul W. Crapuchettes, Palo Alto, Calif., assignor to Michael R. Klein, San Francisco, Calif.

Application December 8, 1947, Serial No. 790,281
2 Claims. (Cl. 171—95)



1. An electronic mixer adapted for providing an indicating current responsive to a plurality of input voltages, comprising a first and second electron discharge device each including an anode, cathode, and control grid, direct voltage power supply providing space current for said first electron discharge device, current indicating means responsive to space current of said first device, a direct voltage grid bias source in the cathode circuit of said first device, and a plurality of potential dividers including a common resistive element shunted by a capacitor and the space current path of said second device, said potential dividers being connected between said grid bias source and control grid of said first device, and having purely resistive portions thereof terminating one in each source of said first-mentioned input voltages, said second device having control grid potential derived similarly from at least one potential divider connected to at least one of said sources of first-mentioned voltages.

2,588,210

METHOD OF LOCATING LEAKS IN WELL BORES

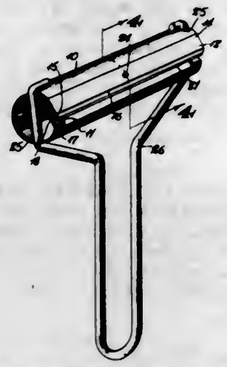
Orvil W. Crisman, New Orleans, La., and Abraham J. Teplits, Penn Township, Allegheny County, Pa., assignors, by direct and mesne assignments, to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application November 18, 1949, Serial No. 128,246
4 Claims. (Cl. 250—83.6)

1. The method of locating leaks in a well bore which comprises introducing into the well bore a

composition comprising a drilling fluid and a traceable sealing material which comprises fragments of a flexible, deformable material insoluble in the drilling fluid and having a structure ranging from fibrous to lamellar, said fragments having incorporated therewith a radioactive material insoluble in the drilling fluid, and then locating the depth of the radioactive sealing material by surveying the well for radioactivity.

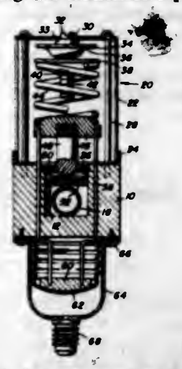
2,588,211
SAFETY RAZOR
Oscar H. Crowell, Russellville, Ala.
Application December 30, 1946, Serial No. 719,258
3 Claims. (Cl. 30—62)



1. A safety razor comprising a split cylindrical head having a thin wall with the edges of the wall in overlapping relation and with the under edge having an outwardly extended flange on the end thereof, said under edge formed to provide a blade holding socket adjacent the flange said under edge having an outwardly extended longitudinally disposed rib spaced from the blade holding socket and extended to engage the under surface of a blade in the socket and also having a longitudinally disposed recess in the outer surface positioned to provide clearance below the cutting edge of a blade positioned in the socket, the outer overlapping edge of said cylinder being crimped inwardly to provide a blade holding guard, and a handle positioned perpendicular to the axis of the cylinder removably mounted on the ends of the cylinder.

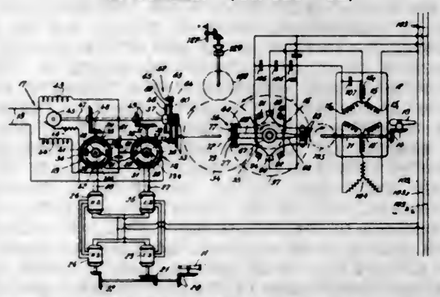
2,588,212
FLUID PRESSURE ACTUATED TUBE COMPRESSOR
Harry Willis Custer, Center Line, Mich., assignor to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin
Application October 28, 1948, Serial No. 57,027
1 Claim. (Cl. 137—153)

A valve comprising a valve body having a cavity, an inlet and an outlet communicating directly with said cavity, a flexible and resilient tube extending through said cavity and connecting said inlet and outlet, a plunger mounted on said valve body for movement within said cavity to collapse and to release said tube, a yoke carrying said plunger, spring means biasing said yoke in one direction to collapse said tube, and a pressure responsive bellows operatively connected with said yoke to bias the plunger in the opposite direction, said yoke including a pair of rods slidably mounted in parallel transverse bores in said valve body, an end plate secured to each pair of adjacent ends of said rods, one end plate being disposed within said bellows, said bellows being secured on one side of said valve body, a frame on the opposite side of said valve body, said frame having an abutment plate adjustably



mounted in said frame, and said spring means comprising a helical spring compressed between said abutment plate and the other of said end plates.

2,588,213
REMOTE CONTROL APPARATUS
Arthur P. Davis, New York, and George Agins, Brooklyn, N. Y., assignors to Arma Corporation, a corporation of New York
Application December 12, 1936, Serial No. 115,488
23 Claims. (Cl. 318—31)

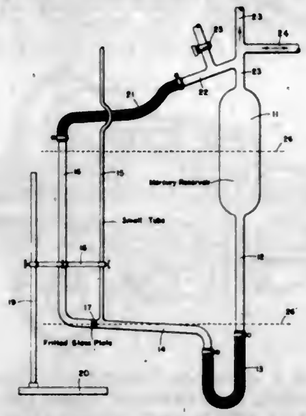


22. In a system including a controlling element and a controlled element governed thereby, the combination of a driving motor for said controlled element, a source of power, a reversing switch having two sets of contacts and interposed between said motor and said source, cross connections between one set of said contacts and the terminals of said motor for effecting the reversal thereof upon closure of the corresponding contacts, operative connections between said motor and one set of contacts, operative connections between said controlling element and said other set of contacts, and damping means in one of said connections.

2,588,214
APPARATUS FOR LIMITING THE DEGREE OF SUBATMOSPHERIC PRESSURES
Oliver H. P. Dawson, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application January 2, 1947, Serial No. 719,885
4 Claims. (Cl. 137—78)

1. A device for controlling the pressure in a vessel fluidly connected with an exhausting means by a conduit comprising, in combination, a mercury manometer having a first arm open

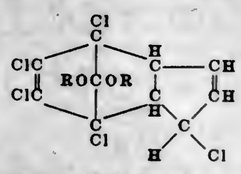
to the atmosphere and a second arm fluidly connected with said conduit, communication means connecting said conduit and the base of said first



arm and means pervious to gas but impervious to mercury between said communication means and the base of said first arm.

2,588,215
PENTACHLORODIMETHOXYMETHANO-TETRAHYDROINDENE
John W. Dawson, Huntsville, Ala., and Willard J. Croxall, Bryn Athyn, Pa., assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application December 9, 1950, Serial No. 200,089
1 Claim. (Cl. 260—611)

As a new chemical compound, a substance of the formula



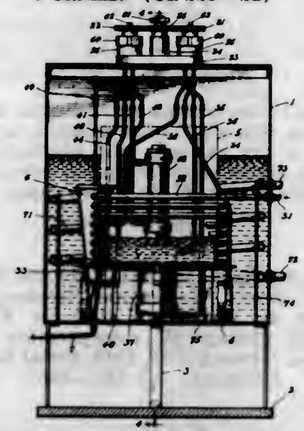
wherein R is the methyl group.

2,588,216
SELF-LUBRICATING HINGE PIN
Maurice De Graaf, Grand Rapids, Mich.
Application March 26, 1949, Serial No. 83,588
1 Claim. (Cl. 16—161)



In a hinge construction including a central pivot pin, the improvement in said pin comprising: a core member of circular cross section; a bushing comprising a plurality of sections, said sections together having a length equal to the length of said core member; said bushing being of porous material and mounted on and surrounding said core member; said bushing being of constant diameter throughout its length and impregnated with a lubricant, whereby said lubricant while said pin is in use will be gradually released by said bushing for coating the surface of said bushing; head means on each of the ends of said pin.

2,588,217
LIQUID DISPENSING APPARATUS FOR DISPENSING MEASURED AMOUNTS OF BEVERAGES
Hartwell De Mille, New York, N. Y.
Application June 22, 1948, Serial No. 34,401
5 Claims. (Cl. 225—21)

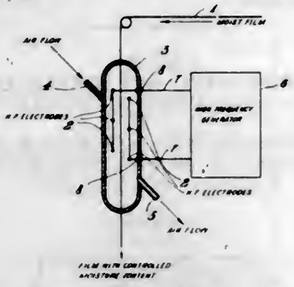


1. Apparatus of the kind described comprising a housing, a container for a liquid under pressure, a separate container for a flavoring substance, a mixing casing and a pair of measuring vessels each enclosing a movable part, all in said housing, pipe connections from one of said vessels to the container for liquid and the mixing casing for delivering a quantity of said liquid to the mixing casing, pipe connections from the other of said vessels to the other container and the mixing casing for delivering a quantity of said flavoring substance to the mixing casing, and means for controlling all of said connections, said casing having an outlet at one end, a nozzle in the casing adjacent the outlet coupled to the connections for the flavoring substance, and another nozzle in said casing adjacent the other end thereof coupled to the connections for said liquid, said nozzles being mounted to discharge towards each other in the casing to diffuse the flavoring substance in the liquid before discharge through said outlet.

2,588,218
METHOD OF DRYING PHOTOGRAPHIC MATERIAL
Cornelis Johannes Dippel, Jan Anthony Lely, and Johannes Aloysius Maria Dikhoff, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 19, 1947, Serial No. 748,974
In the Netherlands June 1, 1946
4 Claims. (Cl. 34—1)

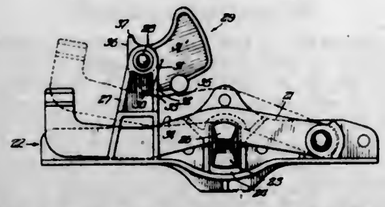
1. A method of drying a photographic film having a thickness of about 40 microns comprising a carrier of regenerated cellulose sensitized with an aqueous solution of a light sensitive diazonium compound and a salt of a noble metal, said photographic film containing at least 1.4 grams of

water per cubic centimeter of dry cellulose, comprising the steps of subjecting the photographic film to the action of an electric field of a strength and frequency at which 80 calories per second are generated in the film and capable of expelling



more than three-fourths of the initial water content of said film within five seconds, and passing a stream of dry gas over said photographic film during the expulsion of water therefrom to carry the expelled water off as water vapor.

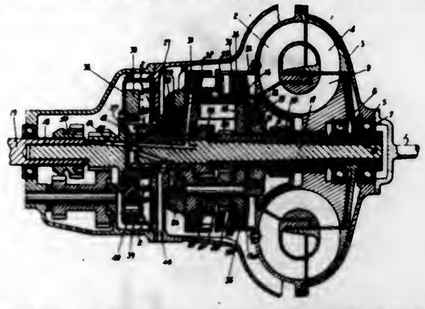
2,588,219
LATCH DAMPENING DEVICE
George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application November 18, 1949, Serial No. 128,209
9 Claims. (Cl. 105—308)



1. For combination with a hopper having a discharge opening, a pivotally mounted door for closing said opening, and a latch bar pivotally mounted on said door to swing parallel thereto and biased to engage a shouldered keeper carried by said hopper, said keeper having an inclined striker surface to be engaged by said latch bar for displacing it upwardly when said door is swung to closed position and said latch bar is moved upwardly from a rest position to permit operative engagement between it and said keeper; a dampening element disposed in the path of upward movement of said latch bar and adapted to engage the same and retard such upward movement when it is moved a predetermined distance away from said rest position, and stop means for holding said dampening element in operative position with respect to said latch bar so that said dampening element can function as aforesaid.

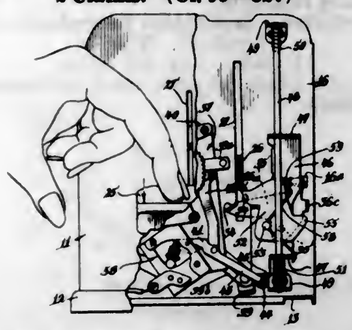
2,588,220
AUTOMATIC VARIABLE-SPEED TRANSMISSION
William A. Duffield, Windsor, Ontario, Canada, assignor to Windfields Limited, Montreal, Quebec, Canada, a company
Application August 19, 1946, Serial No. 691,487
8 Claims. (Cl. 74—677)

1. In an automatic variable speed transmission, a fluid torque converter comprising an impeller, a runner member and a reaction member, a gear reduction unit, a gear carrier supporting said gear reduction unit, an operable connection between the runner member of the fluid torque converter and the gear reduction unit, an automatically operated clutch forming an operable connection between the impeller of the fluid torque converter and the gear carrier, an output



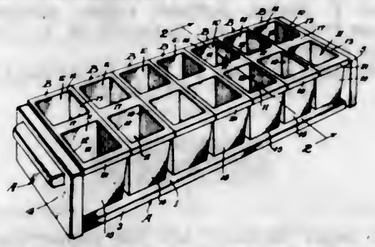
shaft, and a governor controlling the operation of said clutch, said governor being connected on one side with said output shaft and on the other side with the runner member through the gear reduction unit for low speed drive and with the runner member and the impeller through the clutch and gear carrier for direct drive.

2,588,221
AUTOMATIC TOASTER
Irving Edelman, Brooklyn, N. Y.
Application October 16, 1948, Serial No. 54,969
2 Claims. (Cl. 99—327)



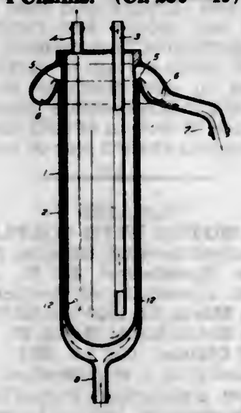
1. In an automatic electric toaster, a toaster frame and a casing surrounding the same, said frame carrying heating elements and providing toast spaces therebetween, a rack connected to the frame for vertical adjustment relative thereto, said rack having members extending into the toast spaces to support and elevate the toast pieces and a handle projection extending outwardly through the frame and casing and by which the rack may be depressed or elevated to inspect the toast, spring ejector means also connected to the frame for vertical adjustment relative thereto and engageable upon release with the rack to elevate it, a spring biased tripping member adjustable on the frame and engageable with the spring ejector means to retain it in a depressed position, a timing mechanism disposed on the frame and having a set and actuating arm operable to release the tripping member after a predetermined time interval, a spring biased setting member to set the timing mechanism adjustable in the frame and having a portion engageable with the set and actuating arm to set the timer mechanism and a spring biased pawl adjustable on the setting member and engaged by the handle projection of the rack to cause the setting member to be depressed by the rack and said pawl engageable with the tripping member upon release of the setting member to release the pawl from the rack and permit the return of the setting member free of the rack whereby the rack is left free to be elevated for inspection of the toast.

2,588,222
ICE CUBE SUPPORT
Eloy D. Ekkebus, John C. Gallagher, and Raymond Zapfel, Chicago, Ill., assignors to Allis Rubber Corporation, Chicago, Ill., a corporation of Delaware
Application July 23, 1949, Serial No. 106,394
2 Claims. (Cl. 62—108.5)



1. In an assembly for freezing and dispensing ice cubes, a support adapted for slidable insertion into a freezing sleeve, a flexible ice cube container adapted to contain a plurality of ice cubes removably mounted thereon, said support including a bottom wall and upstanding end walls but being free of cube container supporting side walls, a longitudinally extending ridge upstanding from said bottom wall along substantially the center thereof, said cube container being mounted on said ridge and having cube compartments on each side of said ridge, the cube container having supporting engagement with the bottom wall and with said longitudinally extending ridge only.

2,588,223
PROCESS FOR STERILIZING BIOLOGICAL LIQUIDS
John Otto Erickson and Robert Franz Stamm, Stamford, and Raymond Loring Libby, Bedford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application June 3, 1947, Serial No. 752,210
4 Claims. (Cl. 250—49)
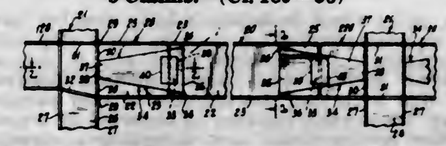


1. A process of inactivating pathogenic components of biological liquids which comprises flowing under constant pressure an accurately uniform, essentially annular film against a constant hydrostatic head, the flow being substantially parallel to the axis of the annulus and all portions of the film traversing paths of substantially equal length, the film being sufficiently thin so that the rate of flow is not materially affected by minor pressure variations on the liquid and subjecting the moving film to a uniform radiation of wave length suitable for an inactivation of the pathogenic components, the rate of flow and radiation intensity being adjusted to assure complete inactivation of the pathogenic components.

2,588,224
THERMOSTATIC CONTROL DEVICE
Harry H. Everhard, Canton, Ohio
Application June 28, 1949, Serial No. 101,820
2 Claims. (Cl. 236—33)



1. A thermostatic control device for a tank heater, including a channel housing, means for securing said channel housing against the exterior of the heater tank with the open side of the channel adjacent the tank wall, an expansible brass tube within said channel housing, the lower end of said tube being connected to a fuel valve housing within said channel housing, a U-shaped conductor strip fitting around said expansible tube and abutting said tank wall, spring means between said channel housing and conductor strip for holding said strip in abutment with said tank wall, a spring pressed control valve in said fuel valve housing, and a non-expansible rod slidable in said expansible tube and operatively connected to said control valve.

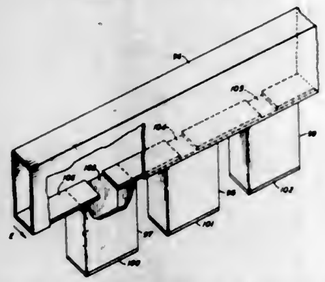
2,588,225
STRUCTURAL BEAM END CONNECTION
Gilbert D. Fish, Pelham, N. Y.
Application August 19, 1948, Serial No. 45,001
8 Claims. (Cl. 189—36)



1. A structural beam end connection comprising, in combination, a support member, a load-bearing beam having an end portion located in the vicinity of said support member, a cantilever stub beam member fixedly mounted on and ex-

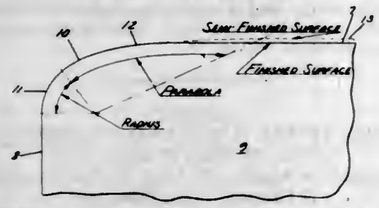
tending away from said support member toward said beam end portion, hinge means rotationally connecting said beam end portion to said cantilever member, a moment-transmitting extension arm of greater flexibility than said load-bearing beam fixed to said beam end portion and extending past said hinge means to an anchorage point appreciably beyond said hinge means, and means at that anchorage point connecting said arm to one of said members.

2,588,226
WAVE FILTER
Arthur Gardner Fox, Eatontown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application July 30, 1942, Serial No. 452,851. Divided and this application December 5, 1947, Serial No. 789,811
5 Claims. (Cl. 178—44)



1. A filter for suppressing a band of guided electromagnetic waves comprising a tubular, single-conductor wave guide of rectangular cross-section and a plurality of cavity resonators, each of said resonators having an opening into said guide, the centers of said openings having a longitudinal spacing approximately equal to an odd integral multiple of a quarter wavelength at the mid-band frequency of said band and two of said resonators being resonant respectively at different frequencies within said band.

2,588,227
GAUGE BLOCK FINISHING
Raymond Gaerlich, Jordan, Minn., assignor to Continental Machines, Incorporated, Savage, Minn., a corporation of Minnesota
Application October 7, 1949, Serial No. 120,107
1 Claim. (Cl. 33—168)



A gauge block including a body member having opposed parallel flat gauging faces, side walls intermediate the gauging faces and in normal relation thereto, and curved surfaces between the side walls and the margins of said gauging faces, the curved surfaces as observed in a cross section of the block each including a circular arcuate portion of substantially 45° extent extending from a side wall in tangent relation thereto and an arcuate portion extending uninterruptedly from the first arcuate portion to the margin of the corresponding gauging face, the second arcuate portion being of substantially greater linear extent than the first arcuate portion and being of increasingly greater radii from the first arcuate portion to the margin of the gauging face, whereby a relatively wide curved surface is provided between the margin of each gauging face and the side walls and the surface defined by said second arcuate portion defines relatively small angles with said gauging face and planes parallel therewith to avoid burr producing impacts with other blocks movable parallel with said gauging face.

2,588,228
INDUSTRIAL AND PAPERMAKERS' FELT AND METHOD OF PRODUCING THE SAME
Percival T. Gates, Suffield, Conn., assignor to Drycor Felt Company, Belleville, N. J., a corporation of New Jersey
Application January 16, 1948, Serial No. 2,714
14 Claims. (Cl. 28—72.2)

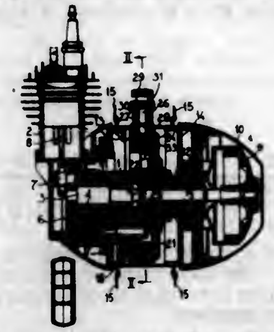


1. A paper makers' felt for supporting and draining paper making material, comprising a non-fulled woven base in which the warp and weft strands have an open weave to provide drainage passages from the front side to the back side, and nap producing layers of fiber material respectively at the front and back sides of said woven base attached thereto by fibers of said layers needled into and through said base from one to the other of said layers, at least one of said layers being composed at least in part of non-fulling pliable synthetic fiber material, the individual fibers of which are disposed partially at the respective sides of said woven base and partially in the drainage passages in a direction substantially perpendicular to said woven base to direct drainage water therethrough.

14. The method of producing paper makers' felt for supporting and draining paper making material, which consists in providing a non-fulled woven fabric base in which the warp and weft strands have an open weave to provide drainage passages from the upper to the lower side, needling nap producing layers of fiber material respectively at the front and back sides of said woven base to cause fibers of said layers to be needled into and through said base from one to the other of said layers, and further needling without the addition of fiber material at each side of said felt to cause certain of said fibers previously needled in one direction to be carried through the felt in the opposite direction, and to cause loose ends of certain of said fibers to be inserted into the nap at each side of said felt.

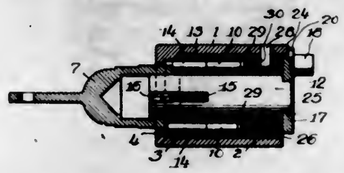
2,588,229
HUB MOTOR WITH COUPLING
Jacobus Johannes Geesink, Bussum, Netherlands, assignor to Speedwheel N. V., Amsterdam, Netherlands, a company of the Netherlands
Application March 22, 1950, Serial No. 151,081
In the Netherlands March 23, 1949
7 Claims. (Cl. 74—421)

1. A hub-motor for a vehicle wheel comprising, in combination, a stationary supporting member, an internal combustion engine having a crankshaft supported by said member, a wheel hub rotatably supported by said member, a coupling element, releasable means for positively coupling said coupling element to and uncoupling it from



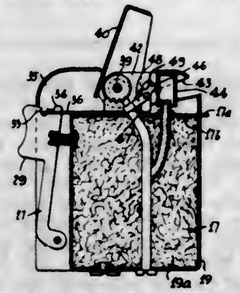
said wheel hub, a gear train driven by said crankshaft, a slip clutch driven by said gear train, said slip clutch driving said coupling element.

2,588,230
TUMBLER LOCK
Harry F. George, Chicago, Ill.
Application April 9, 1947, Serial No. 740,390
14 Claims. (Cl. 70—363)



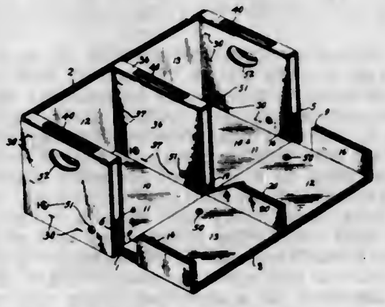
4. A tumbler lock comprising, a shell, a plug within said shell and having fixed at one end a cam plate for operating locking means, a pair of tumbler cylinders arranged end to end between the shell and the plug, the contacting ends of said cylinders falling in a common parting plane, tumblers in each of said cylinders slidably extending therethrough parallel to the axis of said cylinders, one of said cylinders being fixed to the shell and the other being fixed to the plug, and a resilient block positioned in the shell between the cam plate and the cylinder which is fixed to the shell for yieldably biasing the tumblers during unlocking of the lock.

2,588,231
LIGHTER
Edmund G. Gessmann, Woodside, N. Y., assignor to L. Batlin & Son, Inc., New York, N. Y., a corporation of New York
Application December 3, 1949, Serial No. 130,947
8 Claims. (Cl. 67—7.1)



1. A lighter comprising a housing, a fuel burning wick extending above the top wall of said housing, a snuffer pivoted above said top wall and engageable over said wick, spring means biasing said snuffer to wick uncovering position, a latch engageable with said snuffer and adapted to retain the latter in wick covering position, igniter means connected to said snuffer and operable when the latter is pivoted towards wick uncovering position, a pivoted cover mounted above said housing and engageable over said snuffer and said igniter means, and operating means operatively associated with said cover and said latch and adapted to initially pivot said cover to open position and then actuate said latch to release said snuffer for pivoting of the latter to wick uncovering position and consequent operation of said igniter means, and spring means cooperating with said operating means for moving the latter in an opposite direction and thereby return said cover and therewith said snuffer to closed position.

2,588,232
SHIPPING CASE FOR FRAGILE ARTICLES
Jesse R. Grant, Chicago, Ill.
Application January 16, 1948, Serial No. 2,585
4 Claims. (Cl. 229—23)

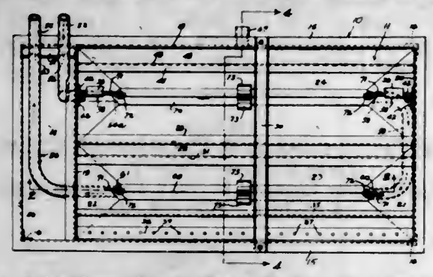


1. A shipping case for fragile articles comprising integral bottom and side wall members, flanges at both ends of said members, a pair of liner members each having bottom and side wall sections, flanges on each end of each liner member, said liner members being disposed end to end and on said bottom member with the wide wall sections of the liners disposed against said side wall members, the flanges on said liners abutting together to form a vertical post alongside each side wall member and a horizontal post extending between the vertical posts and alongside said bottom member, the flanges on the ends of said liners with the corresponding flanges at the ends of said members forming corresponding vertical and horizontal posts at the ends of said case, generally U-shaped members having planar sections disposed against opposite faces of said posts and slotted connecting sections extending across the upper ends of the vertical ones of said posts, and means securing the planar sections of said case to said posts to close in the case and to divide the case into two equal compartments.

2,588,233
SEDIMENT SETTLING AND REMOVING DEVICE
Henry W. Hapman, Detroit, Mich., assignor, by mesne assignments, of forty per cent to Hannah Jane Hapman, Detroit, Mich.
Application October 2, 1947, Serial No. 777,441
3 Claims. (Cl. 210—55)

1. A purifying apparatus for sediment-bearing liquids comprising a tank having first and second

settling compartments disposed side by side, said compartments having V-bottoms with approximately parallel bottom trough portions at substantially their lowest points, a barrier structure extending lengthwise of and between said compartments and separating said compartments from one another, said barrier structure having a liquid overflow portion disposed above and remote from said bottom trough portion, liquid inlet and outlet conduits communicating respectively with said first and second compartments to supply sediment-bearing liquid to said first compartment and withdraw clarified liquid from said second compartment in a direction of flow transverse to said bottom trough portions and to said barrier structure, a conveyor inlet passage-



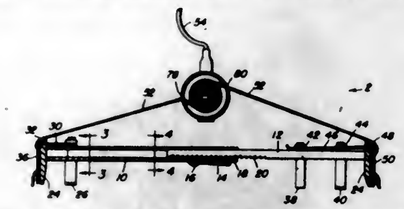
way extending from the exterior of said tank into said bottom trough portion of said second compartment, a connecting passageway extending between and interconnecting said trough portions, a conveyor discharge passageway extending from said bottom trough portion of said first compartment to a point of sediment disposal, a single endless flight conveyor extending through said inlet passageway said bottom trough portions, said connecting passageway and said discharge passageway; and a prime mover drivingly connected to said conveyor and arranged to drive said conveyor in a direction along the second compartment trough portion and thereafter along the first compartment trough portion to a point of sediment disposal.

2,588,234
METHOD OF DRAWING METAL
John A. Henricks, Cleveland, Ohio
No Drawing. Application October 31, 1950, Serial No. 193,290
13 Claims. (Cl. 148—6.15)

8. In a process of working ferrous metal, the steps which comprise (1) forming on the metal surface an integral iron salt that has a lower melting point than the metal, (2) thereafter forming a meltable fixed film over said integral iron salt by coating the surface thereof with a film-forming liquid composition containing a water-soluble organic binder that is solid at room temperature and a plurality of solid meltable inorganic compounds distributed therethrough, said inorganic compounds and meltable binder having melting points below that of the integral iron salt and a scratch hardness less than 5 on the Mohs' hardness scale and (3) thereafter working the metal.

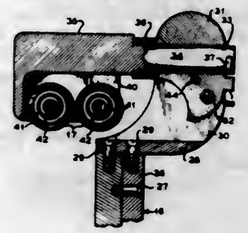
2,588,235
GARMENT HANGER
Robert H. Herrick, New York, N. Y.
Application December 5, 1947, Serial No. 789,815
9 Claims. (Cl. 223—90)

1. A garment hanger comprising a longitudinally extensible transverse rod, fastening means for maintaining said rod in adjustable extended position, a flexible strip having its ends secured to the opposite ends of said rod, a support hook



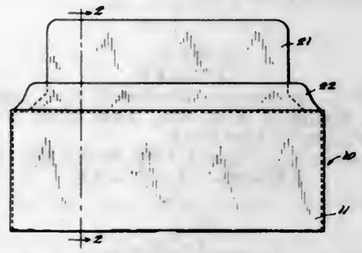
member, and a slack take-up member rotatably supported by the hook member, said strip having an intermediate portion thereof wound about said slack take-up member.

2,588,236
CALENDAR RACK
Robert J. Higginbotham, Charlotte, N. C.
Application December 16, 1949, Serial No. 133,413
6 Claims. (Cl. 19—162)



6. A calendar rack comprising an elongated supporting bar including a rack, a head detachably secured to said bar, a member secured to said head, a head block pivotally mounted on said member for movement about a substantially horizontal axis and spaced parallel rollers rotatably mounted in said head block.

2,588,237
BILLFOLD
Richard Hirschfelder, Chicago, Ill.
Application March 16, 1950, Serial No. 149,959
1 Claim. (Cl. 150—38)



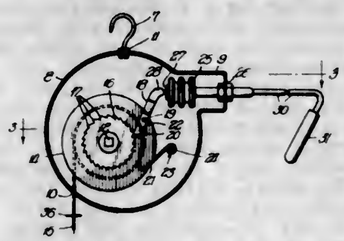
A billfold comprising inner and outer walls secured along their ends and along one of their longitudinal edges to form a compartment, a panel disposed between said walls and secured along the ends thereof, said panel extending longitudinally and dividing said compartment into two pockets open along an upper longitudinal edge, a flap integrally connected to said panel along its upper longitudinal edge and foldable against said panel to form an intermediate pocket opening closely adjacent the lower longitudinal edge of said panel, and a second flap connected to the upper longitudinal edge of said outer wall, said second flap being free at its ends and lower longitudinal edge and adapted to selectively embrace only the upper longitudinal marginal edge of said dividing panel to obscure the same from view when the billfold is open, or the second flap may rest adjacent said outer wall and provide a visible compartment between the outer wall and dividing panel.

2,588,238
TAILPIECE FOR STRINGED INSTRUMENTS
Henric Victor Hogne, Stockholm, Sweden
Application July 23, 1947, Serial No. 762,940
In Sweden August 2, 1946
3 Claims. (Cl. 84—302)



1. A tailpiece for stringed instruments comprising a member provided with means at one end for attachment to an anchorage and at the other end for attachment to strings, said member being provided with a bend extending laterally away from the longitudinal axis of the member at the mid-portion thereof to provide a recess at one side of the member intermediate its ends.

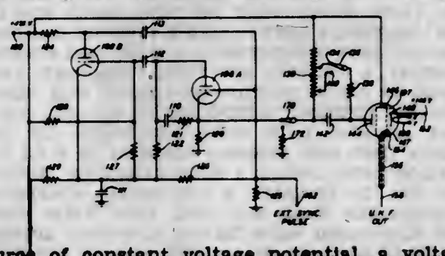
2,588,239
DRAFT REGULATOR
Harold Hopton, Bismarck, N. Dak., and Lawrence T. Wahlstrom, Chicago, Ill.
Application December 3, 1949, Serial No. 130,942
7 Claims. (Cl. 74—2)



1. As an article of manufacture, a safety device for use with a furnace having a draft door which normally tends to close, comprising: a reel, means for supporting said reel by the draft door control chain, a flexible member connected to said reel and to said door, means for winding said flexible member onto said reel thereby to shorten the chain to permit it to open said door, means for locking said reel against counter rotation which would unwind said member, and temperature-responsive means for releasing said locking means thereby permitting the reel to rotate and the flexible member to unwind to close the draft door.

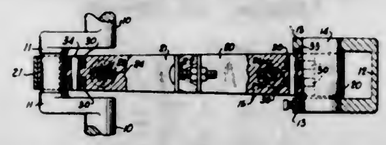
2,588,240
PULSING CIRCUIT
Edward W. Houghton, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 27, 1946, Serial No. 657,400
4 Claims. (Cl. 250—36)

1. An ultra-high frequency pulse generating system comprising an ultra-high frequency energy wave generating circuit including a velocity variation type oscillating vacuum tube having a repeller anode, and a predetermined anode voltage range within which, only, oscillation will take place, a pulse generating circuit comprising a multivibrator having an unsymmetrical voltage wave output consisting of a series of squared top pulses at one voltage level and intervening variably shaped pulses at another voltage level, the minimum difference in voltage level between said differently shaped pulses being at least one-half the said voltage range within which oscillation will take place, said multivibrator output being connected to said repeller anode, a



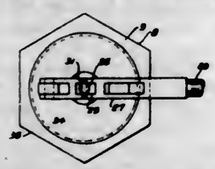
source of constant voltage potential, a voltage dividing circuit connected to said source and switching means connecting said repeller anode to either of two points on said voltage dividing circuit, one of said points providing a first constant voltage bias on said repeller anode such that the oscillating vacuum tube is enabled only during the occurrence of said squared top pulses, the other of said points providing a second constant voltage bias on said repeller anode such that the oscillating vacuum tube is enabled only during the occurrence of said variably shaped pulses whereby either constant frequency or variable frequency ultra-high frequency pulses can be obtained from said ultra-high frequency pulse generating system.

2,588,241
CONNECTING MEMBER FOR LOOMS
Coy Lester Huffman, Greenville, S. C.
Application April 11, 1949, Serial No. 86,707
2 Claims. (Cl. 74—579)



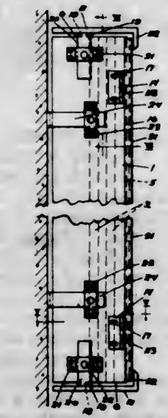
1. An improvement in a wooden pitman rod for looms adapted to connect a crank throw on a crank shaft with a sword pin and having substantially semi-circular bearing cavities in each end thereof and having a pair of U-shaped members disposed over the ends of the pitman rod for encircling the crank throw and the sword pin and having out-turned ends penetrated by bolts for securing the U-shaped members over the ends of the pitman rod and the sword pin, said improvement comprising the ends of the pitman rod having a plurality of spaced slots in each end thereof and extending longitudinally of the pitman rod and each slot having a sheet of fibrous material fitting tightly therein and adhesively secured therein, each end of the pitman rod having a transverse bore therein which penetrates said sheets of fibrous material and a confining pin tightly secured in each of said bores and also penetrating the bores in the sheets of fibrous material.

2,588,242
SILENT BALL COCK
Rutherford H. Hunter, Wooster, Ohio
Application September 25, 1945, Serial No. 618,504
7 Claims. (Cl. 137—104)



1. Valve construction for flush tanks and the like including a body having a pressure chamber, a supply tube communicating with said pressure chamber, a centrally apertured diaphragm valve biased to closed position separating said supply tube and chamber, a float having an arm, and a float actuated pilot valve controlling the discharge from said pressure chamber to a fill line chamber and having a stem extending through said fill line chamber, a lost motion connection between the float arm and pilot valve stem, said diaphragm valve having a central depending body portion, an annular seat in the valve body cooperating with said body portion for closing the supply tube, means on said pilot valve for causing snap action of the valve during its closing movement and moving the pilot valve stem out of contact with the float arm, whereby a partial vacuum in the pressure chamber will unseat the pilot valve and relieve said vacuum while said diaphragm valve remains biased to closed position, and a diaphragm partition attached to said pilot valve stem in said fill line chamber.

2,588,243
SUSPENSION DEVICE FOR CURTAINS, DRAPERIES, OR THE LIKE
Knut Theodor Irving, Nykoping, Sweden, assignor to Exportlists Forsaljnings AB, Nykoping, Sweden, a corporation of Sweden
Application February 12, 1948, Serial No. 7,948
In Sweden February 11, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires February 11, 1959
9 Claims. (Cl. 160—19)



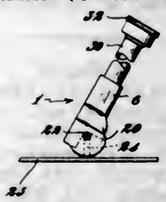
3. In a suspension device for curtains comprising in combination a curtain-board, a bracket therefor, and a cornice member attached to the front edge of said board which when applied in place extends over the vertical front edge of said board, an end member movably attached to said board which when applied in place has one part covering the front surface of said cornice member at an end of the latter, said end member being independent of said bracket and movable with relation thereto while said bracket supports said board.

2,588,244
CAN-OPENING DEVICE
Elof Johanson, deceased, late of Chicago, Ill., by Thomas D. Nash, administrator, Chicago, Ill.
Application December 26, 1950, Serial No. 202,750
2 Claims. (Cl. 220—52)



1. As a new article of manufacture, a device adapted to open a can of the type that consists of a cup-shaped body, a skirt equipped cover and a tongue equipped removable tear band between the upper end of the side wall of the body and the lower end of the skirt of the cover, and comprising a horizontally elongated supporting member adapted in connection with use of the device to be placed in a substantially diametric position across the top wall of the cover of the can, formed of a single length of wire, and embodying a pair of spaced apart side pieces having certain adjacent ends thereof connected together by a U-shaped end piece and their other ends bent inwards and terminating in two upstanding loose helixes which have the convolutions thereof in interleaved and coaxial relation and together form a vertically extending bearing that is adapted when the supporting member is in place to assume a position wherein it is directly above and outwards of the skirt of the cover, and a vertically extending shaft having the central portion thereof journalled in the bearing, embodying in its lower end a diametric slot for receiving the tongue of the tear band of the can, having the upper end thereof provided with turning means, and adapted when it is turned by said means after insertion of the tongue into the slot to wind the tear band around its lower end and thus effect release of the cover of the can from the can body.

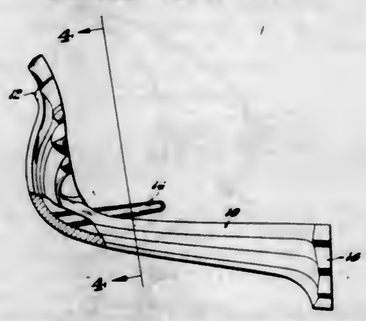
2,588,245
DISTRIBUTOR FOR WATERING PLANTS
Morrill R. Jordan, Boston, Mass.
Application May 24, 1950, Serial No. 163,987
2 Claims. (Cl. 299—129)



1. A water distributing device comprising an elongate horizontal housing having end walls

which diverge downwardly from an inlet opening in its upper part and an interior partition extending between said end walls to define front and rear chambers each having outlets in their lower ends, and a horizontally disposed deflector plate having an upstanding centrally disposed web connected to said housing between the outlet openings of each chamber, the body portion of said deflector plate being arranged so as to deflect water discharged through said openings outwardly away from said housing.

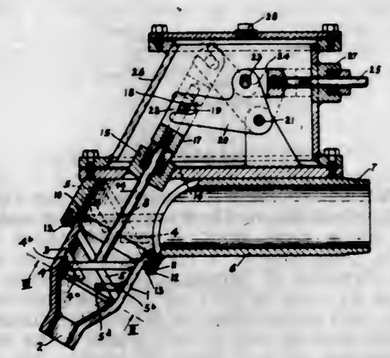
2,588,246
FESTOON HOLDER
William C. Kenney, Cranston, R. I., assignor to Kenney Manufacturing Company, Cranston, R. I., a corporation of Rhode Island
Application February 9, 1950, Serial No. 143,283
5 Claims. (Cl. 160—330)



2. A festoon holder comprising a curtain supporting arm adapted at one end for connection to a supporting structure the other end of the said arm extending upwardly to form a decorative head, walls within said arm defining a longitudinal channel, and a retaining lug integral with said arm at the end near said decorative head extending only part way inwardly of said arm from a point toward its other end and from a point within said channel, said lug being slightly resilient and being positioned to define between itself and the arm a narrow and converging passage, whereby curtain material may be placed across the open face of the channel of said arm, drawn outwardly into said narrow passage, and positively wedged into said channel between said lug and arm.

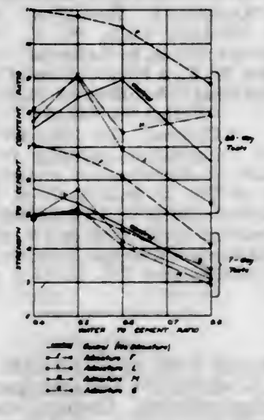
2,588,247
SPRAY NOZZLE
Selwyne P. Kinney, Crafton, Cornelius J. Garrigan, Greentree, and Ward W. Clarke, Monaca, Pa., assignors to S. P. Kinney Engineers, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application November 14, 1949, Serial No. 127,216
3 Claims. (Cl. 299—117)

1. A spray nozzle for gas washing apparatus comprising a body member having an end portion of reduced diameter with a discharge orifice therein, an enlarged portion inwardly of said orifice and forming a cylindrical chamber, and a tapering portion connecting said chamber with said orifice, said tapering, end, and enlarged portions having a common axis, a housing connected with said body member and providing an enlarged flushing chamber inwardly of said cylindrical chamber, a conduit for supplying water to said flushing chamber for delivery to said orifice, said conduit having its axis inclined relative to and intersecting with said common axis in said flushing chamber, deflector vanes having a normal operative position in said cylindrical chamber for causing water flowing therethrough to emerge from said orifice in a spray having the shape of a solid cone, said deflector vanes having a mounting for movement from said operative position in said cylindrical chamber to a flushing position



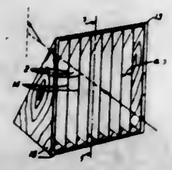
in said flushing chamber adjacent the point of intersection of said axes, and an actuating member for moving said mounting and thereby said vanes from said operative position to said flushing position in which water entering the flushing chamber will impinge directly on said vanes and thereby remove debris lodged thereon.

2,588,248
HYDRAULIC CEMENTITIOUS MIXTURES AND METHOD OF MAKING
Alexander Klein, Berkeley, Calif., assignor to Louis S. Wertz, Cleveland, Ohio
Application November 8, 1948, Serial No. 59,013
27 Claims. (Cl. 106—90)



18. A cementitious mixture containing essentially a hydraulic cement and an amount of the order of 0.005 to 0.6 percent, based on the cement content of said mixture, of the product resulting when a polyhydroxy carboxylic acid having at least four and not over 18 carbon atoms and having a terminal carboxyl group is reacted in aqueous solution with a nitrogen base, said mixture having a better workability and yielding a final hardened mass with a higher strength than a mixture of like composition prepared without said product.

2,588,249
WAVE POLARIZATION SHIFTER SYSTEMS
Winston E. Kock, Middletown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 22, 1946, Serial No. 642,722
8 Claims. (Cl. 250—33.63)

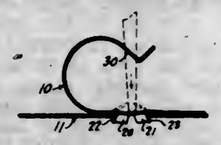


1. An electromagnetic wave prism for refracting an electromagnetic wave having a substantially plane wave front, a predetermined linear electric polarization, a given wavelength and a given direction of propagation, said prism comprising at least a pair of like flat conductive plates, said plates being of triangular shape, the shortest edge of each of said plates being several wavelengths of said wave in length, the other two edges of each of said plates being several times as long as said shortest edge, said plates being positioned side by side with their corresponding edges parallel to each other, the spacing between said plates being at least one-half wavelength of said wave, the space between said plates being substantially free from conductive material and being substantially free of conductive obstructions, for the passage of waves in a direction parallel to the plane of the plates, one of the sets of parallel longer edges of said plates being substantially parallel to the polarization of said wave, and the set of shortest parallel edges of said plates being substantially parallel to the direction of propagation of said wave.

2,588,250
SUPEROPAQUE ENAMEL
Bernard Kopelman, Brooklyn, and Eugene Wainer, Niagara Falls, N. Y., assignors, by mesne assignments, to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 1, 1946, Serial No. 666,528
2 Claims. (Cl. 106—48)

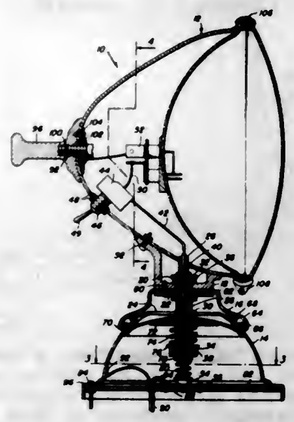
1. A frit composition suitable for use in the manufacture of superopaque enamels consisting essentially of 7% to 11% sodium oxide, 5% to 11% boric oxide, 35% to 55% silicon dioxide, 3% to 9% aluminum oxide, 2% to 6% zinc oxide, 7% to 11% sodium aluminum fluoride, 8% to 14% titanium dioxide and 2% to 15% phosphorous pentoxide.

2,588,251
FASTENER FOR APERTURED PANELS
Harold W. Kost, Toledo, Ohio, assignor to Prestole Corporation, Toledo, Ohio, a corporation of Michigan
Application November 17, 1949, Serial No. 127,855
4 Claims. (Cl. 85—37)



1. A fastener comprising a sheet metal body for application to one side of an apertured panel, a pair of tongues integral at one end with said body and having their free ends adjacent each other and normally disposed in outwardly inclined position, and a blocking projection integral with the attached end portion of each tongue for overlapping engagement with an inside edge portion of a panel aperture when the tongues are swung inwardly from normal position, the free ends of said tongues engaging each other in such inward swinging movement in toggle-like action.

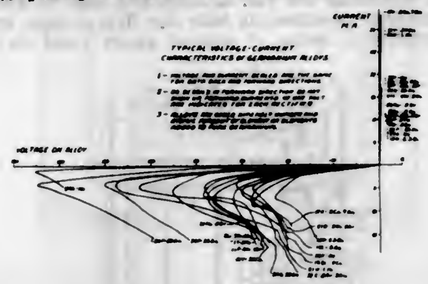
2,588,252
BALL SWIVEL BASE SPOTLIGHT
Albert G. Lampe, Madison, Wis.
Application February 12, 1948, Serial No. 7,833
1 Claim. (Cl. 287—23)



In a ball joint including a hollow base having an opening therein, a housing loosely received in said opening and having a portion projecting from said base, a socket member fixed to said portion and bearing against said base, a clamping member slidably received on said housing and means yieldingly urging said clamping member against the inner surface of said base to maintain said housing at a predetermined angle relative to said base, and a wedge-shaped resilient ring bearing against the outer surface of said base and engaging the inner surface of said socket member to retain said socket member in adjusted angular position relative to said base, said hollow base being substantially semi-spherical and said socket member including an inturned peripheral rim slightly spaced from the outer surface of said base, said clamping member including a curved plate having an outwardly flared marginal edge bearing against the inner surface of said base.

2,588,253
ALLOYS AND RECTIFIERS MADE THEREOF
Karl Lark-Horovitz and Randall M. Whaley, La Fayette, Ind., assignors to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana
Original application July 13, 1945, Serial No. 604,744. Divided and this application December 29, 1949, Serial No. 135,745
13 Claims. (Cl. 175—366)

1. An electrical device comprising a semi-conductor, a counter electrode having substantially point contact with said semi-conductor and a second electrode having an area of contact with said semi-conductor which is large compared to that of the counter electrode, said semi-conductor consisting of germanium of the order of 99% purity in combination with at least one of



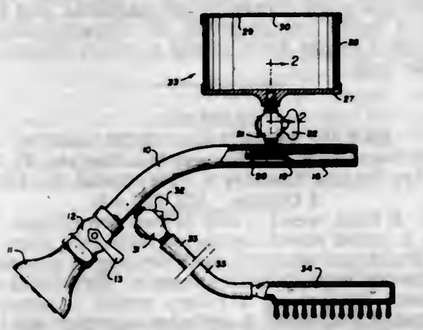
the elements from the group consisting of copper and silver, said device having a peak back voltage in the range in excess of 10 volts and approaching the order of 200 volts.

2,588,254
PHOTOELECTRIC AND THERMOELECTRIC DEVICE UTILIZING SEMICONDUCTING MATERIAL
Karl Lark-Horovitz, La Fayette, Ind., Seymour Benzer, Pasadena, Calif., and Robert E. Davis, East McKeesport, Pa., assignors to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana
Application May 9, 1950, Serial No. 161,902
10 Claims. (Cl. 136—89)



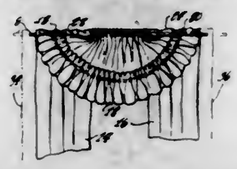
1. A device comprising a unitary body of germanium having a plurality of alternating regions of N-type and P-type characteristics and means connecting said regions in series aiding relationship.

2,588,255
LIQUID MIXING DEVICE
James H. Larsh, Leadville, Colo.
Application November 13, 1948, Serial No. 59,881
2 Claims. (Cl. 299—84)



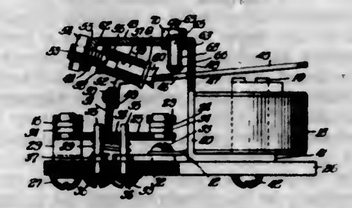
1. A shower device for bathrooms comprising a horizontal tubular shower arm having means at one end thereof for connection to a source of water under pressure, a reservoir valve secured at the lower end thereof to the wall of said horizontal arm, a liquid soap reservoir secured to the upper end of said valve and disposed above the arm, an aspirator tube disposed within the horizontal arm adapted to increase the velocity of the water flowing through the arm, whereby liquid soap is withdrawn from the reservoir into the arm, a shower head secured to the other end of said arm, a shower head valve interposed between the shower head and the horizontal arm for controlling flow of liquid to the shower head, and a by-pass valve is secured to the arm between the shower head valve and said aspirator tube.

2,588,256
CURTAIN CONSTRUCTION
Edward J. Lepow, New York, N. Y., assignor to Home Curtain Corp., a corporation of New York
Application August 11, 1951, Serial No. 241,485
1 Claim. (Cl. 160—124)



A curtain hanging assembly comprising rod means adapted to be connected to a window frame above a window opening, side panel elements having respectively rod passage means at their upper ends receiving the ends of the rod and suspended therefrom at locations laterally spaced from each other, a central panel element of substantially rectangular shape having upper and lower edges, rod passage means adjacent the upper edge of the central panel element slidably securing the same to the rod and between the side panel elements and hook means carried by the respective terminal ends of the central panel element adjacent the lower edge thereof, said upper edge of the central panel element being gathered upon said rod and the lower edge fanned to extend the terminals ends and the hook means thereof to the rod, said hook means at the terminal ends of the panel element connected to the rod over the rod passage means of the side panel elements, said central panel element extending in front of and overlapping the side panels.

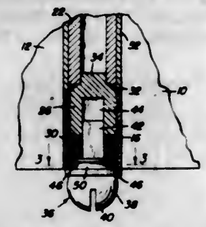
2,588,257
RELAY FOR ALTERNATING-CURRENT MOTORS
Alexander J. Lewus, Cicero, Ill.
Application June 16, 1947, Serial No. 754,823
3 Claims. (Cl. 200—87)



3. A relay comprising an electromagnet, a bracket, an armature mounted on said bracket, a pair of electrical contacts, means actuable by said armature for bridging said contacts as said armature is attracted by said electromagnet, a biased tensioning device pivotally mounted on said bracket, said tensioning device being in position to bear against said armature to cause the

armature to swing away from the magnet when said magnet is deenergized and in position to bear substantially lengthwise of the armature when said magnet is energized, and a second tensioning device mounted on said bracket, said second tensioning device being in position to bear against said armature under tension when said magnet is energized and to be free of the armature when the magnet is deenergized.

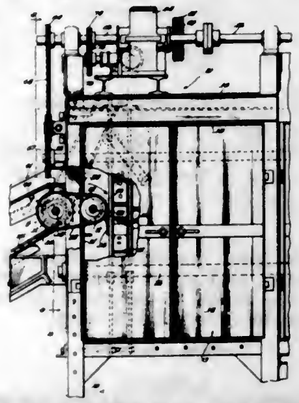
2,588,258
ADJUSTABLE DOOR HINGE
Theodore A. Lowman, Fairbanks, Alaska
Application April 4, 1949, Serial No. 85,285
1 Claim. (Cl. 16—133)



In an adjustable hinge which includes a first plate and a second plate interconnected for movement by means of a pin passed through coaxial collars which are secured to said plates, the improvement which comprises an assembly for adjusting one of said plates with respect to the other including an operator, means mounting said operator in one of the collars for axial movement with respect to the collars in response to rotative movement of said operator, said operator having a seat with one of the collars on one of the plates disposed thereon whereby axial movement of said operator is transmitted to displacement of said one plate with respect to the other plate, said operator having a non-circular bore, a key having a non-circular shank disposed in said bore for rotating said operator, and means retaining said key shank within said bore including a groove in said key, a pin carried by one of the collars and a part of said pin being disposed in said groove.

2,588,259
DEHAIRING APPARATUS FOR HOG CARCASSES
Alvin O. Lundell, Chicago, Ill., assignor to The Allbright-Nell Company, Chicago, Ill., a corporation of Illinois
Application September 2, 1949, Serial No. 113,820
2 Claims. (Cl. 17—16)

1. In combination with a carcass dehairing apparatus of the type that comprises a horizontally elongated housing structure with a carcass inlet at its front end and an outlet at its rear end, a longitudinal series of transversely aligned spaced apart U-bars in the housing structure between the inlet and outlet, rotary beater equipped scraping and polishing devices in associated relation with the U-bars, a conveyor adapted to deliver the carcasses to be dehaired, one at a time, into the inlet and having its discharge end disposed adjacent said inlet, a horizontal rotary feed roll located in the housing structure between the discharge end of the conveyor and the first U-bar, positioned above the lower portion of the first U-bar, provided with a series of spaced apart annular grooves and adapted to support the carcasses and feed them toward said first U-bar, and motor driven gearing for driving the scraping and polishing devices and the feed roll, a comb device associated with the feed roll, operative to prevent any portion of the carcass being fed by the roll from following the roll around and also to guide the carcass downwards into the first U-bar, and embodying a series of spaced apart rigid strips



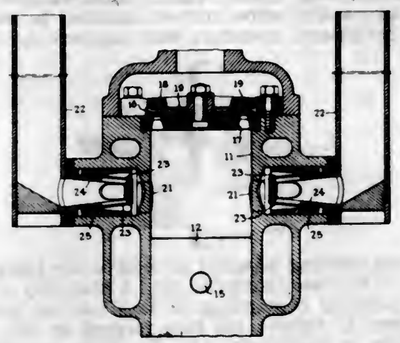
corresponding in number to, and aligned respectively with, the grooves in said roll and comprising arcuate parts fitting within the upper portions of the grooves and inclined rear parts extending downwards and inwards from the upper rear portion of the feed roll and having the lower ends thereof fixedly secured in place adjacent the lower portion of said first U-bar.

2,588,260
OXIDATION CARRIER FOR THE OXIDATION OF HYDROCARBONS
Charles S. Lynch, Plainfield, and Eugene S. Corner, Maplewood, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Original application August 12, 1947, Serial No. 768,247. Divided and this application January 26, 1950, Serial No. 140,646
3 Claims. (Cl. 252—186)

1. An oxygen carrier for the oxidation of hydrocarbons to a gas containing carbon monoxide and hydrogen consisting essentially of approximately equal gravimetric proportions of iron oxide and manganese oxide and also containing about 10 to 40 weight per cent of a metal oxide selected from the class consisting of magnesia and chromium oxide, compounded by coprecipitation of the said oxides from mixed aqueous solutions of their salts.

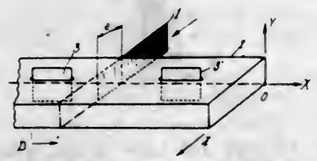
2,588,261
ART OF TUNED SUPERCHARGING
Edward C. Magdeburger, Washington, D. C.
Application January 8, 1948, Serial No. 1,171
2 Claims. (Cl. 230—2)

1. A high speed crank driven compressor having a rated speed not materially less than 1500 R. P. M. at which it will develop a volumetric efficiency materially in excess of 100%, said compressor comprising a rotary crank, a piston reciprocable thereby, a cylinder in which said piston reciprocates, the cylinder having at least one inlet port controlled by the piston and so located that the piston starts to expose the inlet port substantially as the piston reaches its maximum lineal velocity; check valve means controlling the inlet port to inhibit back flow therethrough, said check valve being located substantially at the inlet port; in combination with a tuned inlet duct leading to and communicating with said inlet port through said check valve, said duct being of such length as to have at said rated compressor



speed a standing wave characterized by a frequency affording two complete waves per cycle of the compressor; and discharge valve means for said cylinder.

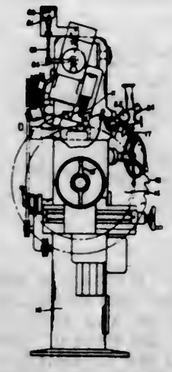
2,588,262
MEANS FOR VARYING ELECTROMAGNETIC WAVES IN A WAVE GUIDE
Hérbert François Mataré, Vaucresson, France, assignor to Societe anonyme dite: Compagnie des Freins et Signaux Westinghouse, Paris, France
Application April 21, 1948, Serial No. 22,306
In France May 22, 1947
4 Claims. (Cl. 178—44)



1. In an electric wave measuring arrangement, tubular means adapted to guide electric-magnetic waves, adjustable planar shutter means extending through said tubular means transversely to the direction of propagation of said waves and planar electrical resistance means extending through said tubular means in a plane parallel to the direction of propagation of said waves and arranged on both sides of said shutter means at such a distance from said shutter means that reflection on said shutter means is avoided, said planar electrical resistance means being movable in said tubular means whereby the coupling factor between said electrical resistance means and said electro-magnetic waves is varied.

2,588,263
AUTOMATICALLY ACTUATED WHEEL FEED MECHANISM FOR SAW GRINDING MACHINES
Rodger B. Matthewman, Stow, Mass., assignor to Simonds Saw and Steel Company, Fitchburg, Mass., a corporation of Massachusetts
Application September 19, 1950, Serial No. 185,633
3 Claims. (Cl. 76—41)

1. A grinding machine comprising a support for a toothed work piece, adjustable means for automatically indexing the work through a predetermined movement to present its teeth successively for grinding, a rotatably driven grinding wheel, means including a reciprocable slide for oscillating the wheel into and out of contact with the teeth gullets in timed relation with the work indexing so as to grind the teeth as presented, a wheel slide adjustably mounted on the reciprocable slide for movement towards the work, means for moving the wheel slide on the reciprocable slide to position the wheel relative to the work, automatically actuated feed mechanism including a motor for moving the wheel slide relative to the reciprocable slide and feeding the wheel



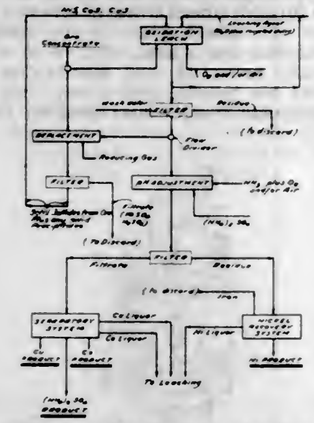
towards the work, manually adjustable means for precisely varying and limiting the extent of each wheel feeding movement caused by said motor so as to stop the wheel in a pre-determined position, a counting mechanism including a traveler moved periodically through an increment in timed relation with each wheel slide oscillation, and adjustable control mechanism rendered effective when the traveler reaches a predetermined position representing a variably selected, accumulated total of increments which causes the feed mechanism motor to feed the wheel forward to said predetermined wheel position for grinding the teeth gullets deeper.

2,588,264
DETERGENT COMPOSITION
Louis McDonald, Boston, Mass.
No Drawing. Application December 1, 1944, Serial No. 566,241
9 Claims. (Cl. 252—121)

1. A detergent composition, comprising a fatty acid soap and two aliphatic non-cationic type high molecular weight organic non-soap detergent constituents including a strong disperser for calcium and magnesium soaps, said disperser having high cleansing efficiency and low tissue absorption, a second organic non-soap detergent serving as a solubilizer for soda soap in the presence of electrolytes and a minor proportion of ethyl cellulose serving to promote micelle formation of the two non-soap constituents and to equalize the rate of solution of various ingredients of the finished compound detergent, said ethyl cellulose being colloided with mono-fatty acid ester of polyhydric alcohol.

9. A process of incorporating water insoluble ethyl cellulose in sodium soap to promote micelle formation, to equalize rate of solution of various ingredients in soap and to provide mechanical strength which comprises dissolving ethyl cellulose in a toluol-ethanol mixture, mixing with water containing mannide mono-oleate and then incorporating into the soap.

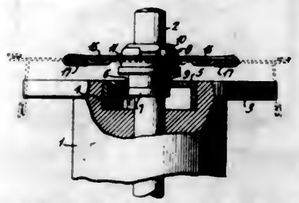
2,588,265
ISOLATION OF NICKEL SULFIDE
Patrick J. McGauley, Glen Cove, N. Y., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware
Application November 15, 1949, Serial No. 127,451
5 Claims. (Cl. 75—119)



1. A method of leaching a nickel-bearing ore containing at least one other non-ferrous metal value, iron sulfides and acid-insoluble gangue, which comprises the steps of: passing a quantity of nickel-bearing ore concentrate into an oxidation leaching system in which it is simultaneously subjected to: (*a*) oxidation in the presence of water and a gas selected from oxygen, oxygen-enriched air and air, (*b*) the action of a sufficient recycled amount of acid produced in the oxidation leaching step to provide a pH less than about 3.0 and (*c*) to a temperature of about 275–750° F., the water being sufficient in amount to prevent the acid content during reaction from exceeding 15%; removing oxidized slurry from the oxidation leaching system; filtering the said recovered slurry; discarding the solids residue; dividing the clarified filtrate into two portions; treating one said portion with (*a*) a sufficient amount of ammonia to produce a pH of 4.0–6.8 in the presence of (*b*) sufficient ammonium sulfate after pH reduction to convert all the nickel content of said one portion to nickel sulfate-ammonium sulfate double salt in the presence of a solution concentrated with ammonium sulfate; collecting the residual resultant nickel-bearing precipitate; treating the remaining portion of said clarified filtrate at about 275–750° F. with a soluble reducing agent and additional amounts of ore concentrate having an iron and sulfur content equivalent to the non-ferrous metals content of said remaining portion of filtrate; continuing the treatment until replacement substantially ceases; collecting the solids content of the resultant slurry; passing the resultant clarified liquid from the system and feeding the collected solids to the oxidation leaching operation, together with water, additional ore concentrate and a portion of recycled acid produced in the oxidation leaching step.

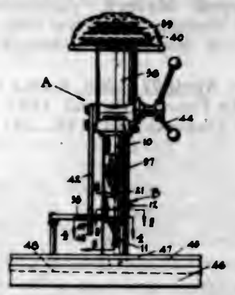
2,588,266
FLIER CONSTRUCTION
Michael J. McHale, Scranton, Pa.
Original application July 7, 1949, Serial No. 103,517, now Patent No. 2,577,346, dated December 4, 1951. Divided and this application March 22, 1951, Serial No. 216,931
6 Claims. (Cl. 57—116)

1. In a flier for spinning machines and the like, a central apertured body member having base and head portions, a peripheral flier wire support member formed on the body between the base and head portions, a plurality of circumferentially spaced lugs formed on the head portion, a flier wire support adapted to seat on the peripheral member, said support having a



central opening adapted to receive the head portion of the body member, and a plurality of cut-out portions contiguous to said central opening adapted to receive the lugs formed on the head portion of the block, whereby upon rotation of the block with respect to the support, the flier wire support is securely clamped to the flier body.

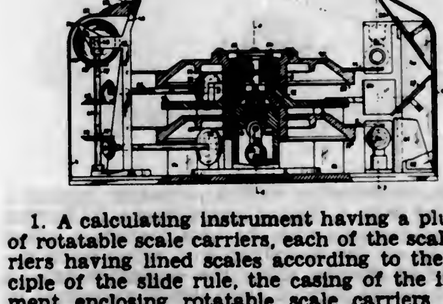
2,588,267
TUBE DRILL ADAPTER
Eli H. McLaughlin, Vienna, W. Va.
Application July 19, 1949, Serial No. 105,547
5 Claims. (Cl. 279—20)



1. An adapter for tube drills, comprising an annular body member having an axial bore therethrough and a chamber therein, a supporting shaft rotatable within said bore and having a hollow portion communicating with said chamber, means carried by the body member for rotatably mounting the shaft adjacent its upper end, a tube drill carried at the lower end of said shaft, means connecting the body member to a source of cooling fluid under pressure for feeding said fluid to said chamber from which it passes into the hollow portion of the shaft and thence through the tube drill to the cutting area thereof, and means provided in the said body member for preventing cooling fluid moving upwardly under pressure from said chamber along the outer surface of said shaft from reaching the mounting means for the said shaft.

2,588,268
PROCESS FOR DEHYDRATING ISOPHORONE FATTY ACID EXTRACT
Kenneth K. Mercer, Houston, Tex., and William E. Catterall, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application September 22, 1948, Serial No. 50,646
1 Claim. (Cl. 202—42)

A process for dehydrating a mixture of C_2 to C_4 fatty acids contained in an aqueous high-boiling isophorone extract solution of said acids along with higher fatty acids, which comprises dehydrating the extract in a fractional distillation zone; cooling and condensing the overhead vapors from said distillation zone to obtain a two-layer condensate of the isophorone solvent and of water; decanting from the resultant condensate the solvent layer; discarding the water layer; returning the solvent layer to the distillation zone as external reflux; discharging a sub-



stantially anhydrous acid-isophorone mixture from the distillation zone; distilling off C_2 to C_4 acids from the acid-isophorone mixture, leaving a C_2 to C_4 acid-free solvent bottoms; alkali washing said isophorone bottoms to remove residual higher fatty acids therefrom; and supplying the thus treated isophorone bottoms free of acid in an amount at least equal to the amount of external reflux to the upper portion of the distillation zone to prevent the acids from distilling overhead with the isophorone and water.

2,588,269
CALCULATING INSTRUMENT WITH OPTICAL PROJECTION SYSTEM FOR MAGNIFICATION
Erhard Karl Mettler, Zollikon, Zurich, and Johann Meier, Kusnacht, Zurich, Switzerland
Application April 5, 1951, Serial No. 219,364
In Switzerland July 19, 1950
8 Claims. (Cl. 235—84)

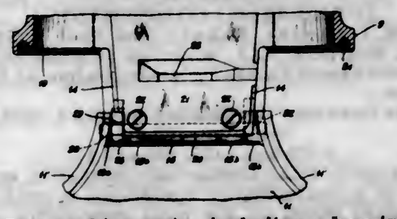
1. A calculating instrument having a plurality of rotatable scale carriers, each of the scale carriers having lined scales according to the principle of the slide rule, the casing of the instrument enclosing rotatable scale carriers which each have one or more fine scales, and an illuminating device and a magnifying optical system by means of which a small section of said fine scales is depicted in enlarged scale on a projection screen provided on said casing, each of said fine scale carriers being mechanically coupled by means of a toothed gearing with a further rotatable scale carrier on which are located mutually corresponding coarse scales which over a large section of their length are made directly visible, all the fine scale carriers being each disposed co-axially and all the coarse scale carriers being each disposed co-axially.

2,588,270
METER HOUSE
Joe Miller, Houston, and Joe W. Workman, Katy, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application December 16, 1946, Serial No. 716,574
5 Claims. (Cl. 220—3.8)



1. A structure adapted to house a flow meter arranged in a pipe line comprising, in combination, a base section with its longitudinal axis parallel with the axis of the pipe line defining a floor member, parallel end members and parallel wall members secured thereto, said end members defining arcuate openings for receiving the lower half of the pipe line, an upper section comprising a roof, an upwardly opening door comprising a first end member, depending parallel wall members and a second end member, said door, walls, and second end member fitting slidably on the base member to make a snug fit therewith and said door and second end member defining arcuate openings which taken with openings of the base member define circles snugly embracing said pipe line.

2,588,271
DISCONNECTIBLE HINGE CONSTRUCTION FOR PARKING METER DOORS
Thomas J. Morgan and Craig M. Moore, Canton, Ohio, assignors to The Superior Switchboard & Devices Company, Canton, Ohio, a corporation of Ohio
Application March 12, 1951, Serial No. 215,136
10 Claims. (Cl. 16—175)



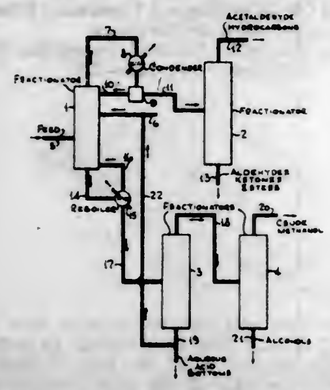
1. In a parking meter including a housing and a door having interfitting ears mounted on a hinge pin, means for removably mounting said door including a laterally removable locking clip engaged around the hinge pin between the housing ear and the door ear at one end of said pin, said door being slidable axially on said pin when the clip is removed to detach its opposite ear from the opposite end of the pin, and the door ear at said one end of the pin having an enlarged hole receiving said pin for lateral swinging of said opposite door ear when it is detached from the pin.

2,588,272

DISTILLATION OF OXYGENATED ORGANIC COMPOUNDS

Charles E. Morrell, Westfield, Carl S. Carlson, Roselle, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Original application December 30, 1947, Serial No. 794,589. Divided and this application December 1, 1950, Serial No. 198,522
8 Claims. (Cl. 202—39.5)



1. The method of separating a mixture of aqueous oxygenated organic compounds containing at least two normal primary alcohols, branched alcohols and neutral non-alcoholic oxygenated compounds in the C_1 to C_5 molecular weight range which comprises continuously introducing said mixture into an intermediate point of a fractionation zone, continuously adding sufficient water to the fractionation zone at a point substantially above the mixture feed point to maintain an internal liquid reflux having a water content in the range of 85 to 99 mol percent below the point of addition of the water, distilling from the mixture vapors of the oxygenated compounds which flow countercurrent to the aqueous reflux, removing overhead from the fractionation zone an aqueous distillate consisting of the neutral non-alcoholic oxygenated compounds and the branched alcohols and recovering as bottoms from the fractionation zone an aqueous solution consisting of the normal primary alcohols.

2,588,273

LUBRICATING COMPOSITIONS

Arnold J. Morway, Rahway, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application August 2, 1950, Serial No. 177,347
8 Claims. (Cl. 252—42.1)

1. A lubricating composition consisting essentially of a lubricating oil containing at least 25% by weight based on the total composition of a sulfur-containing ester of a dibasic acid having the general formula:

$$R-Z-\overset{O}{\overset{\|}{C}}-Y-\overset{O}{\overset{\|}{C}}-Z-R$$

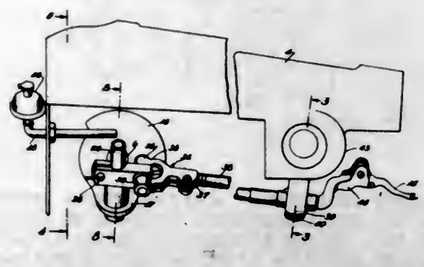
wherein Y is a radical selected from the group consisting of divalent aliphatic hydrocarbon radicals containing from 2 to 8 carbon atoms and divalent aliphatic hydrocarbon radicals containing from 2 to 8 carbon atoms and having a thioether linkage therein, R is an aliphatic hydrocarbon radical containing from 8 to 20 carbon atoms, the sum of $R+R$ being from 14 to 40, Z is a material of the class consisting of oxygen and sulfur, when Z is sulfur, Y being a divalent aliphatic hydrocarbon radical containing from 2 to 8 carbon atoms per molecule, thickened to a grease consistency with the lithium soap of a substantially saturated fatty acid.

2,588,274

SEWING MACHINE

Charles W. Mueller, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, a corporation of Maine

Application February 10, 1949, Serial No. 75,619
5 Claims. (Cl. 112—176)



1. In a sewing machine of the kind described having a looper-carrier, drive mechanism for the looper-carrier comprising in combination a rotatably mounted drive shaft, means for rotating the shaft, a crank secured on the end of the shaft, a crank-stud rotatably mounted in the crank, extending therefrom and inclined to the axis of the drive shaft, a member secured to said crank stud and extending laterally therefrom, and means pivotally connecting said looper-carrier to said member on a pivot having an axis spaced from and at right angles to the axis of said crank stud.

2,588,275

SCREW CLOSURE WITH RETAINING MEANS FOR CONTAINERS

Alessandro Nadai, Rome, Italy, assignor of two-thirds to Rodolfo Abel and Pietro Abel (Abeles), Rome, Italy

Application June 2, 1948, Serial No. 30,626
In Italy October 4, 1947
4 Claims. (Cl. 215—70)



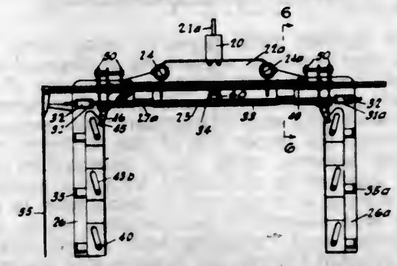
1. In combination with a container having a threaded neck, a closure comprising a lid having a thread meshing with the neck threads, a collar rotatable on the container, said collar being incapable of moving along the container axis, a pair of spaced parallel arms rigidly connected to the lid and extending longitudinally from diametrically opposed points thereof, and a pivotal connection between the arms and the collar enabling pivotal movement of the lid around an axis transverse to the neck axis when the lid is unscrewed, said pivotal connection comprising a lug extending inwardly from each arm, a pair of slots on the collar accommodating the lugs, said slots being of such a length as to enable the lid to be moved an extent at least equal to the threaded portion so that the lid may be screwed and unscrewed.

2,588,276

BLOCK LIFTER

Jacob D. Naillon, Oakland, Calif.

Application December 1, 1947, Serial No. 789,014
18 Claims. (Cl. 294—63)



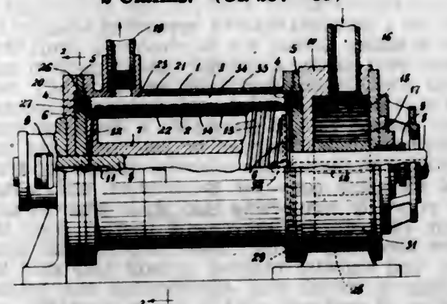
4. A device for lifting blocks comprising a frame having an intermediate supporting section and a pair of depending legs at the sides thereof, at least one of said legs being laterally movable to permit the horizontal interval between said legs to be varied, means for securing the legs at any desired interval comprising a tie rod connecting said legs and adjustably attached thereto, a gripping jaw movably mounted on each leg, said jaws having parallel, vertical engaging surfaces, and supporting means between each of said legs and the corresponding jaw arranged to move each jaw toward the other jaw while maintaining the parallel relationship between the engaging surfaces upon a downward movement of the jaws with respect to said legs.

2,588,277

CONDITIONING MACHINE

Anders Nikolaj Neergaard and Axel Christian Steenberg, Copenhagen, Denmark

Application May 7, 1947, Serial No. 746,480
In Denmark May 18, 1946
2 Claims. (Cl. 257—89)



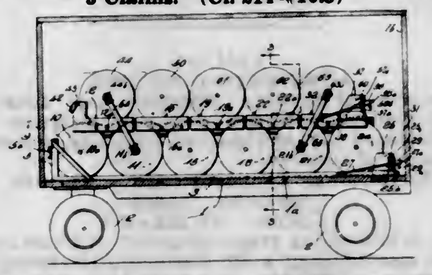
1. Apparatus for conditioning the temperature of chocolate and the like temperature sensitive masses at their passage from the processing stage to the casting stage, said apparatus comprising a pair of concentric cylinders confining an annular chamber therebetween, means being associated with at least one of said cylinders for supplying a temperature conditioning agent thereto, means for supplying said mass under pressure to said annular chamber at the one end and withdrawing said mass at the other end of said chamber; bars axially disposed in said annular chamber and extending longitudinally thereof, said bars being of a width substantially equal to the width of said annular chamber; and gearing associated with said bars for imparting to said bars a planetary motion within said annular chamber, said bars being adapted for alternatingly spreading said mass upon, and scraping it from the surfaces of said annular chamber whilst moving it peripherally thereof, one of said cylinders being rotatable and said gearing including planetary gears at least at one end of said bars, an internal gear mounted at the corresponding end of the outer of said cylinders and a spur gear mounted at the corresponding end of the inner of said cylinders, said planetary gear meshing with both said internal gear and said spur gear thereby to impart to said bars a planetary motion within said annular chamber when said rotatable cylinder is in motion.

2,588,278

APPARATUS FOR TRANSPORTING BEAMS

Floyd B. Noerr, Lewiston, Pa.

Application June 23, 1948, Serial No. 34,656
3 Claims. (Cl. 214—10.5)



1. Cradle devices for supporting an upper flanged beam above and between a pair of similar flanged lower beams comprising vertically disposed plate members having their major axes extending in a substantially horizontal direction, a substantially horizontally extending strip projecting inwardly from each of said plate members and having a downwardly curved seat therein for receiving the flanges of the upper flanged beam, a second strip disposed below each of the aforesaid strips and projecting inwardly from each of said plate members and extending below the peripheral edges of each of said plate members and shaped to provide both a supporting and spacing means with respect to the flanges of adjacent flanged lower beams below the aforesaid upper beam, vertically extending spacer members disposed between said strips and connected with the respective vertically disposed plate members and means interconnecting said plate members in positions disposed intermediate said strips and the spacer members between the strips.

2,588,279

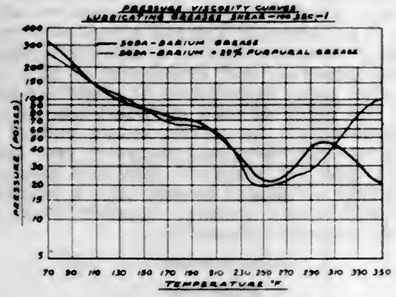
LUBRICATING COMPOSITION

Rosemary O'Halloran, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application February 2, 1950, Serial No. 142,014
6 Claims. (Cl. 252—40)

1. A blended grease composition which consists essentially of a mixture of two component greases, one component being from 95% to 50% by weight based on the weight of the total composition of a grease formed from a mixture of the sodium and barium soaps of a high molecular weight substantially saturated fatty acid, the mol ratio of the sodium soap to the barium soap being from 1 to 1 to 25 to 1, and the other component being from 5% to 50% by weight

based on the weight of the total composition of a grease formed from a mixture of the sodium soap of a high molecular weight substantially



saturated fatty acid and the sodium salt of a low molecular weight organic carboxylic acid, the mol ratio of the soap and salt being from 1 to 1 to 4 to 1.

2,588,280
LUBRICATING GREASE
Rosemary O'Halloran, Elizabeth, and John J. Kolfenbach, Somerville, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 26, 1949, Serial No. 112,644
7 Claims. (Cl. 252—40)

1. A lubricating grease composition which consists essentially of a lubricating oil thickened to a grease consistency with from 10 to 20% of a mixture of the sodium and barium salts of a mixture of substantially saturated aliphatic acids, said mixture of acids containing from 10 to 90% by weight of an acid in the C_{16} to C_{22} range and from 10 to 30% by weight of an acid having 4 less carbon atoms than the acid present in the predominant amount.

2,588,281
FUR SEWING MACHINE
Fred L. Olday, Scranton, Pa., assignor to Olday Fur Machine Co. Inc., Philadelphia, Pa.
Application September 23, 1950, Serial No. 186,453
5 Claims. (Cl. 112—20)



5. In combination with an overedge fur sewing machine, a guide having at the discharge end thereof a substantially horizontal top and substantially vertical sides, said sides being flared to lie at the rear of said guide in substantially a single plane rotated about 90° to said vertical planes in which said sides lie, a blade centrally located in said guide and extending from a point beyond the input end of said guide to a point short of the discharge end thereof and a separating guide member mounted adjacent to the input end of said blade, said separating guide member being of greater width than the blade and extending downwardly below the blade.

2,588,282
CONVEYER
Olaf J. B. Orwin, Birmingham, England, assignor to Fisher & Ludlow Limited, Birmingham, England
Application December 22, 1945, Serial No. 636,746
In Great Britain December 5, 1944
3 Claims. (Cl. 198—184)



1. An endless belt conveyor comprising, an endless conveyor belt, a plurality of channel-section belt housing units housing both runs of the belt, belt supporting elements extending between the sides of said channel-section units supporting thereon the upper run of the conveyor belt, said belt housing units being detachably connected together in alignment with one another, a belt driving unit connected detachably to one end of said assembled belt housing units, said belt driving unit including both a belt driving pulley adapted frictionally to drive said conveyor belt and also means for driving said pulley, a belt tensioning unit connected detachably to the other end of said assembled belt housing units, said tensioning unit including a belt tensioning pulley and means for adjusting said pulley longitudinally of said belt, said belt housing units having detachably secured thereto supporting units, and said supporting units including downwardly projecting portions adapted at their lower ends to rest freely upon a floor and support the belt housing units freely thereon.

2,588,283
MATERIAL LOADING APPARATUS
Charles F. Osgood, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application February 12, 1945, Serial No. 577,359
2 Claims. (Cl. 198—8)

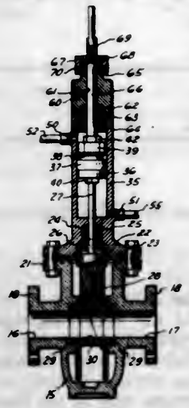


1. In a material loading apparatus adapted for use in mines having low headroom, a front skid, a rear skid having a circular bottom portion, said skids slidable longitudinally and laterally over the floor of a mine, an elevating conveyor mechanism carried by said front skid, a discharge conveyor mechanism carried by said rear skid and arranged to receive the material discharged from said elevating conveyor mechanism, and means for pivotally connecting said skids whereby said front skid during movement thereof over the mine floor may swing horizontally and tilt sidewise and endwise relative to said rear skid including a swivel ring surrounding the bottom portion of said rear skid, a frame pivotally connected to said front skid at its rear end to rock on a longitudinal axis relative thereto and a transverse pivot between said ring and said rocking frame.

2,588,284
FLUID PRESSURE DIFFERENTIAL RESPONSIVE CUTOFF VALVE
Herbert C. Otis, Dallas, Tex.
Application July 9, 1946, Serial No. 682,364
11 Claims. (Cl. 137—153)

2. A safety device including, a housing adapted to be connected in a flow conductor and having

a flow passage therethrough, valve means in said housing for controlling flow through said passage, a cylinder carried by said housing, a piston movable in said cylinder and operatively connected with said valve means for actuating the same, a member connected with the surface of the piston opposite the valve means connection and extending exteriorly of the cylinder so as to be exposed to atmospheric pressure whereby the effective area of such surface of the piston is



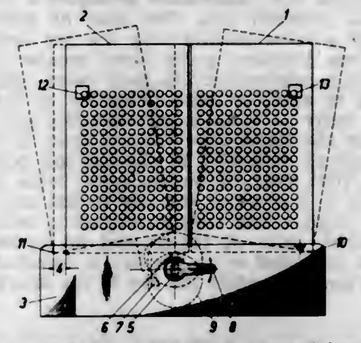
reduced to provide unbalanced opposed areas on the piston, flow restricting means connected with the flow passage of the housing for creating a pressure reduction in the fluid flowing through the conductor, and means for conducting the fluid pressures from opposite sides of the flow restricting means to the opposed areas of the piston for actuating the same, the unbalance of the opposed areas of the piston normally restraining the piston in a position holding the valve means open.

2,588,285
AIR BLEEDER FOR VEHICLE LIFTS
James J. Pelouch, Cleveland, Ohio, assignor, by mesne assignments, to Harold C. Schott, Cleveland, Ohio
Application May 27, 1950, Serial No. 164,639
4 Claims. (Cl. 121—46)



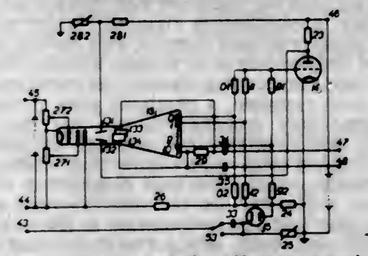
1. In a lift, the combination of a relatively movable cylinder and a plunger having an annular clearance space therebetween, said cylinder having a closed end, sealing means between the cylinder and plunger, said cylinder and plunger together with said sealing means defining a first fluid chamber including said annular clearance space said plunger being hollow and providing a second fluid chamber, said plunger having a wall section separating said fluid chambers, a venturi in said wall section providing a restricted fluid communication between said fluid chambers, stop means to limit the travel of said plunger in said cylinder, said stop means including a stop member secured to said plunger and extending into said annular clearance space, and a tube having a first end connected in communication with said venturi and having a second end connected in communication with said annular clearance space in the region of said member.

2,588,286
CARD INDEX
Felix Perwolf, Vienna, Austria, assignor to Sortex A. G., Zurich, Switzerland
Application March 5, 1947, Serial No. 732,638
In Germany January 7, 1942
6 Claims. (Cl. 129—16.1)



1. A card index apparatus comprising a container for the index cards and including two halves of substantially equal size, a base supporting said halves, symmetrical groups of holes through the front and rear walls of said halves and arranged at right angles to the separating line of the halves and at equal distances from one another, means for imparting a rectilinear movement away of at least one-half from the other half and at right angles to the plane of division, and means for tilting at least one of said halves about its lower edge, for the purpose of performing the selection procedure.

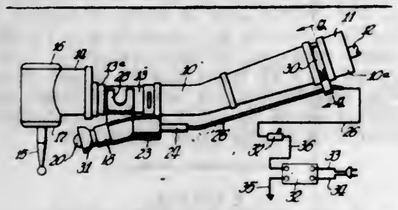
2,588,287
IMPULSE METERING DEVICE
Emil Podskalský, Prague, Czechoslovakia, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia, a corporation of Czechoslovakia
Application June 10, 1950, Serial No. 167,474
In Czechoslovakia June 29, 1949
5 Claims. (Cl. 315—21)



1. Pulse counting and duration measuring apparatus comprising, in combination, a cathode

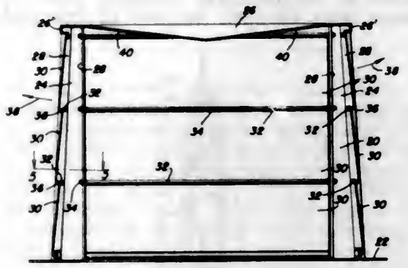
ray tube having a cathode, a plurality of serially arranged anodes, a first pair of deflector plates operable to shift the ray along said anodes and a second pair of deflector plates operable to shift the ray laterally of said anodes; a grid controlled valve; a source of potential; an impedance connected between said source and the anode of said valve, said first pair of plates being connected in shunt with said impedance so that the potential between said plates is a function of the impedance drop; the cathode of said tube being connected to the cathode of said valve; a feedback network operatively associated with said tube and including a plurality of voltage dividers connected in parallel between the grid and cathode of said valve, each anode being individually connected to a tap on a different divider, the circuit constants of said network being so selected that, in any given position of the ray, the anode current of said tube is so divided that the grid of said valve is maintained at a bias potential such that the voltage drop across said impedance produces a relative potential between said first pair of deflecting plates of a value maintaining the ray locked in such given position; pulse input means including circuit connections to said valve and said network to apply a pulse potential to the grid of said valve of such value that the grid bias, and thus the impedance voltage drop, is varied to an extent sufficient to change the potential of said first pair of plates to a value corresponding to a shift of the ray to the next succeeding anode; and means, including said first and second pairs of plates and an impedance network activated when the ray is directed onto the last anode, to shift the ray to the first anode.

2,588,288
DENTAL LIGHT
Joseph Pohanka, Oak Park, Ill.
Application February 24, 1948, Serial No. 10,229
4 Claims. (Cl. 173—358)



1. In combination, in a minute lighting fixture for illuminating the work area adjacent the burr in a contra-angle casing having a bent passaged conductive socket; said casing at one end thereof providing a passaged, reduced and externally threaded nipple; a passaged non-conductive member, mounted at one end thereof, about said nipple and having the other end thereof internally threaded; a conducting element rigidly mounted in the passage of said member and having one end thereof disposed so as to engage a bulb; the other end of said conducting element terminating within the said member; a passaged plug threadingly and removably mounted in the last mentioned end of said member, the passage of said plug being aligned with said conducting element and into which passage the said conducting element extends; a circuit wire terminating near an end of said plug and rigidly mounted in the passage of said plug removable contact with one end of said conducting element, and a clamp adapted to connect said device to a dental contra-angle.

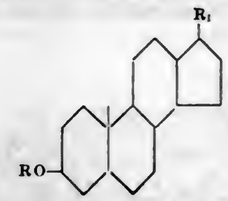
2,588,289
VENTILATOR FOR COLD STORAGE CHAMBERS
Pierre Pouliot, Jacksonville, Fla.
Application July 12, 1948, Serial No. 38,246
3 Claims. (Cl. 98—119)



1. A ventilator comprising a multi-sided base having a central air receiving aperture therein, posts attached to and rising from the corners of said base, each of said posts having a pair of inwardly extending vertically inclined flanges, each of said posts having one of its flanges in registry with one flange of an adjacent post, a set of vertically spaced horizontal pivot shafts associated with each pair of adjacent posts and terminally attached to registering flanges of adjacent posts, said shafts of each set lying in an upwardly and inwardly inclined plane, a group of closure members associated with each pair of adjacent posts and including an upper closure member and a lower closure member, each of said closure members being elongated and having an inwardly rolled sleeve along one of its sides and an inwardly curved flanged portion along its other side, said sleeves receiving said shafts for vertical swinging movement of the closure members, the flanged portion of the upper closure member resting against the outer face of the lower closure member when said closure members are in their closed position, a cover plate supported upon the upper ends of said posts provided with downwardly and inwardly angulated marginal edge portions affording elongated strips having an L-shaped cross-section, the inwardly angulated portions of said strips extending inwardly of said ventilator between said flanges on adjacent posts and contacting the sleeve on the upper closure member of each group of closure members.

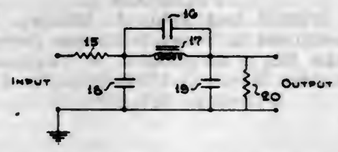
2,588,290
METHOD OF PREPARING STABLE EMULSIONS OF LIPOIDIC SUBSTANCES IN WATER
Engbert Harmen Reerink and Jacob Van der Vliet, Weesp, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
No Drawing. Application February 15, 1946, Serial No. 648,018. In the Netherlands March 4, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 4, 1963
6 Claims. (Cl. 99—11)

1. A method of preparing thinly liquid stable emulsions of lipoidic substances, particularly fat soluble vitamins, in an aqueous medium comprising the step of adding the lipoidic substance to a solution of an emulsifying agent soluble in water and consisting of esterified cholesterol having the following constitution:



in which R is an organic group having at least one free carboxyl group and at least one hydrophile group and R_1 is an aliphatic side-chain at least four carbon atoms in length, to form an emulsion of said fatty substance which is stable in an aqueous medium.

2,588,291
DISTORTIONLESS SEISMIC WAVE FILTER
Norman H. Ricker, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application October 11, 1947, Serial No. 779,260
2 Claims. (Cl. 177—352)

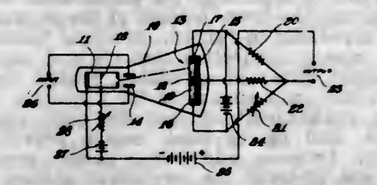


1. In an apparatus for detecting and recording seismic waves, including means for converting the detected waves into electrical impulses, an improved filter for said electrical impulses having an amplitude response characteristic of the form

$$\frac{E_0}{E_1} = e^{-\left(\frac{f}{f_0}\right)^2}$$

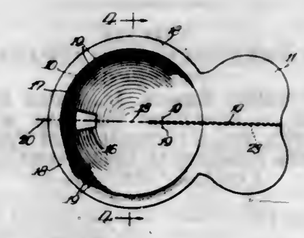
in which E_0 is the output voltage of the filter, E_1 is the input voltage of the filter, e is the base of natural logarithms, f is any particular frequency received by the filter, and f_0 is a reference frequency.

2,588,292
ELECTRON SWITCHING TUBES AND CIRCUITS THEREFOR
Edmund S. Rittner, White Plains, Frank E. Grace, Brooklyn, Samuel Fine, New York, and George A. Beutel, Pearl River, N. Y., assignors to Philips Laboratories, Inc., Irvington on Hudson, N. Y.
Application April 20, 1950, Serial No. 156,972
9 Claims. (Cl. 315—1)



4. An electronic switching circuit comprising an electron device including a cathode-ray gun for generating an electron beam, a target structure positioned to intercept said beam and including a pair of spaced end terminals, a hub terminal interposed between said end terminals and an active element interconnecting said hub terminal and said end terminals to define first and second control paths, said element being formed of semiconductive photoconductive material and means to deflect said beam to impinge selectively on one of said paths, a Wheatstone bridge including first and second resistances connected in series across the end terminals of said target structure and an output resistance connected between the hub terminal and the junction of said first and second resistances, and means to apply a control voltage to said deflecting means.

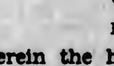
2,588,293
SINGLE PIECE KITE
Frank L. Roe, Evanston, Ill.
Application November 12, 1949, Serial No. 126,802
5 Claims. (Cl. 244—153)



4. A kite formed of a single piece of flexible board having a body portion formed in a saucer shape with a tuck on the convex side thereof and an edge portion bent in reverse relation to said body portion, with said tuck and said edge forming the entire stiffening means for the kite.

2,588,294
PROCESS FOR THE PRODUCTION OF 17-HYDROXYSTEROIDS
George Rosenkranz and Stephen Kaufmann, Mexico City, Mexico, assignors to Syntex, S. A., Mexico City, Mexico, a corporation of Mexico
No Drawing. Application March 24, 1948, Serial No. 16,886
7 Claims. (Cl. 260—397.5)

1. In a method for the conversion of the keto group in the 17-position of a cyclopentanopolyhydrophenanthrene group to a

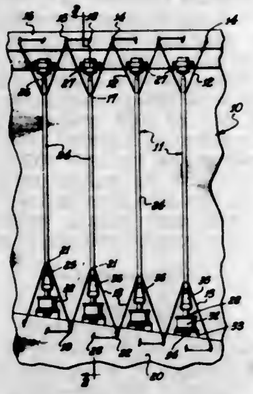


group, wherein the hydroxy group is substantially of the beta configuration, comprising mixing the keto steroid and lithium aluminum hydride to form a complex, hydrolyzing the complex, and isolating the 17-beta-hydroxy steroid.

2,588,295
APPARATUS FOR PRODUCING CHIME TONES AND METHOD OF TUNING MUSICAL BARS
Paul H. Rowe, Los Angeles, Calif., assignor to Maas-Rowe Electromusic Corporation, Los Angeles, Calif., a corporation of California
Application January 7, 1949, Serial No. 69,658
21 Claims. (Cl. 84—1.04)

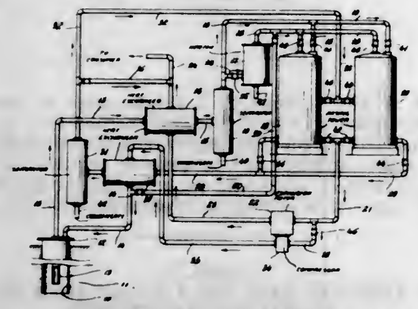
20. A chime bar having a pitch tone, the bar

also having bent end portions imparting to the



bar a partial one octave and another partial two octaves above the pitch tone.

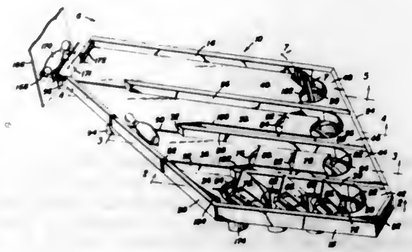
2,588,296
GAS TREATMENT AND APPARATUS THEREFOR
George Franklin Russell, Jr., Baton Rouge, La., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 15, 1946, Serial No. 647,750
5 Claims. (Cl. 166—1)



4. A system for receiving, handling and treating moisture bearing gaseous hydrocarbon fluid issuing, under relatively high pressure, from a well, said system comprising, in combination, a receiving and treating circuit, including gas drying sorbent and means for transmitting said gas from the well through a portion of said sorbent, a sorbent reactivating circuit, including a heater and means for transmitting a portion of the gas from said well through said heater and through another portion of said sorbent to reactivate the same, and thence to said receiving and treating circuit, a feed circuit for feeding a portion of the dried gaseous fluid from said receiving and treating circuit into said well, and a heat exchanger disposed in said system to transfer heat from the heated gas flowing in the reactivating circuit to the gas flowing to the well through said feed circuit.

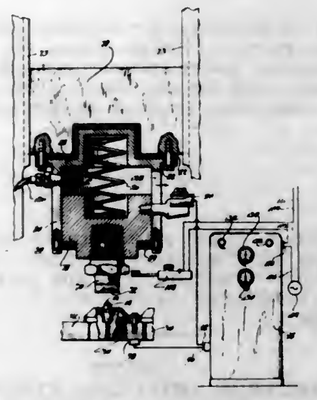
2,588,297
CHUTE ASSEMBLY FOR AUTOMATIC PIN SETTING MACHINES
John J. Scheppe, Trenton, N. J.
Application January 4, 1949, Serial No. 69,152
10 Claims. (Cl. 273—43)

1. A chute assembly for automatic pin setting machines comprising a chute having a plurality of parallel passages and openings in said passages for receiving pins, means responsive to entry of a pin in an opening for blocking the openings after a pin has entered therein, and vertical-



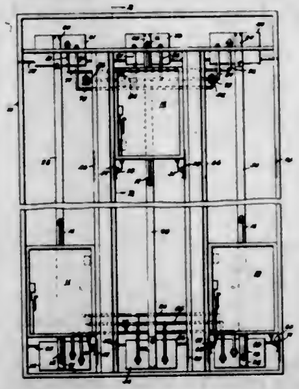
ly slidable gate means paralleling said passages and operated by entry of a pin into preselected openings for closing the passage leading to the filled openings.

2,588,298
APPARATUS FOR FORMING LUBRICATION FITTINGS
Walter Schmid and John A. Simkus, Chicago, Ill., assignors to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application March 15, 1950, Serial No. 149,704
5 Claims. (Cl. 219—3)



3. A machine for crimping a thin-walled lip of a tubular portion of a hard metal lubricant receiving fitting, comprising a vertically movable die, power driven means for imparting a vertical reciprocating motion to said die, a holder for electrically contacting and positioning the fitting with the lip uppermost for engagement with said die during the lower portion of the motion of the die, apparatus to furnish electrical heating current, means connecting said die and said holder in circuit with said apparatus, control means for energizing said apparatus for a heating interval upon engagement of said die with the lip to soften said lip by heat, means providing lost motion between said power driven means and said die whereby the downward motion of said die is arrested by said lip during the heating interval, and means limiting the lost motion to move said die downward after the heating interval to crimp said lip.

2,588,299
SIGNAL SYSTEM FOR ELEVATORS
Don Schultz, Los Angeles, Calif.
Application November 9, 1949, Serial No. 126,363
2 Claims. (Cl. 177—336)



1. In a signal system for multiple grouped elevators, signals in each of said elevators corresponding to each other elevator in the group, mechanical circuit breaking and circuit making means including a plurality of pivoted contacts each having an insulator secured thereto and each associated with a signal in one elevator, a plurality of parallel pivoted rods, each carrying arms adapted to engage all of said contacts except one, and projecting means on the elevator associated with said one of said pivoted contacts adapted to rotate a rod to pivot the remainder of said pivoted contacts breaking circuits.

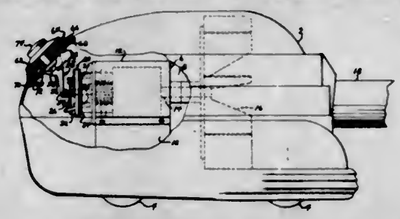
2,588,300
ARTIFICIAL FISHING BAIT
Charles O. Smith, Kansas City, Mo.
Application August 4, 1949, Serial No. 108,534
10 Claims. (Cl. 43—42.09)



1. An artificial fish bait comprising an elongated body member and a plurality of elongated back to back pairs of flexible tabs extending throughout the length of said member and secured to and projecting laterally therefrom.

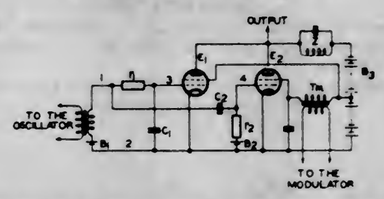
2,588,301
CENTRIFUGAL SPEED CONTROL FOR VACUUM CLEANERS
Leland H. Snyder, Chicago, Ill., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application April 22, 1946, Serial No. 664,135
1 Claim. (Cl. 318—325)

In a vacuum cleaner, a casing, a fan in said casing, a motor in said casing driving said fan, a hollow upstanding handle connected to said casing, said fan being rigidly attached to the rotatable shaft of said motor, a centrifugally operated electric switch driven by said motor, an adjusting member on said switch axially movable to adjust the speed at which said centrifugal switch opens, means connecting said switch in the energization circuit of said motor, whereby the opening of said switch reduces the speed of said motor, cam means rotatably journalled in said casing and adjustably engageable with said



adjusting member axially to control the speed of said motor, a manually operable control knob rotatably journalled on said handle, and a flexible shaft disposed in said hollow handle and connecting said knob and said cam means, whereby manual rotation of said knob rotates said shaft and said cam means to selectively vary the intensity of the air current produced by said fan.

2,588,302
METHOD OF AND DEVICE FOR TRANSFORMING AMPLITUDE MODULATION INTO PHASE MODULATION
Antonín Špaček, Prague-Branik, Czechoslovakia, assignor of one-half to Tesla, National Corporation, Prague, Czechoslovakia
Application April 29, 1949, Serial No. 90,526
In Czechoslovakia May 15, 1948
6 Claims. (Cl. 332—1)

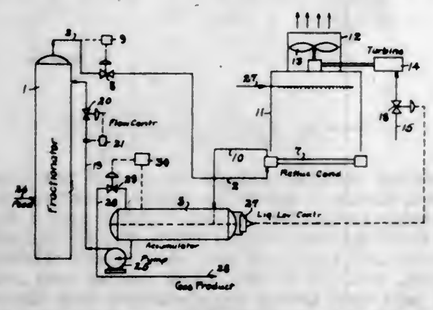


1. Signalling apparatus, having a frequency modulated output, comprising, in combination a source of potential of fundamental frequency; a pair of voltage divider sections connected in parallel to such source and having relative values such that the two voltages thus produced are identical in frequency, have an amplitude ratio equal to $\sqrt{2}$, and the voltage of greater amplitude lags that of lesser amplitude by $3\pi/4$; means for amplitude modulating the voltage of lesser magnitude; and means for superposing the amplitude modulated voltage upon the unmodulated voltage to obtain a frequency modulated output.

2,588,303
FRACTIONATOR REFLUX CONTROL METHOD
Clyde Page Stanley, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 23, 1947, Serial No. 762,846
2 Claims. (Cl. 202—39)

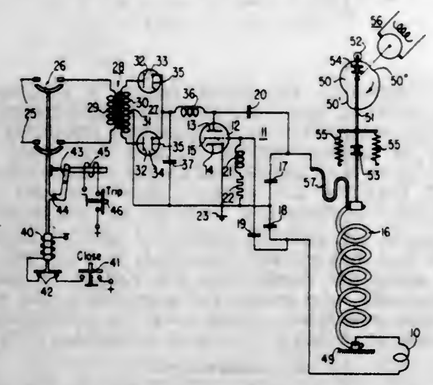
1. A method of fractionating a liquid mixture which comprises, continuously passing a liquid mixture to a fractional distillation zone at a constant rate, removing a stream of vapors from the top of said distillation zone, cooling said

vapor stream in indirect heat exchange with a stream of water supplied at a constant rate, and a stream of air supplied at a variable rate, and controlling said cooling by varying the rate of air supplied and condensing a portion of said vapor stream to a liquid, passing the resulting vapor liquid mixture to an accumulation zone, the cooling of said liquid being controlled responsive to the level of liquid in said accumulation zone, and passing a stream of said con-



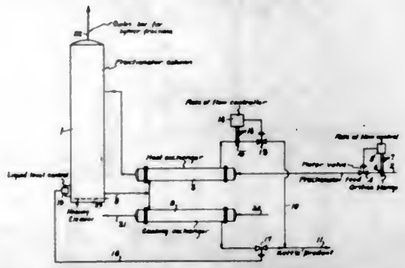
densed liquid at a constant rate from said accumulation zone to said distillation zone as a reflux liquid and as the sole liquid stream removed from said accumulation zone, controlling said cooling of said vapor stream responsive to the liquid level in said accumulation zone so as to maintain said liquid at a substantially constant level, and withdrawing from said accumulation zone a vapor stream as a product of the process.

2,588,304
HIGH-FREQUENCY INDUCTION HEATING APPARATUS
Herbert F. Storm, Scotia, N. Y., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Application September 25, 1946, Serial No. 699,197
17 Claims. (Cl. 219—47)



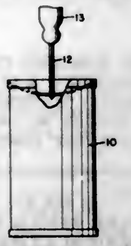
1. In a high frequency heating device, an oscillation generator including a tank circuit comprising a water-cooled inductance formed of a tube of conducting material having sufficient inherent elasticity so that the axial length thereof may be controlled, and means for varying the axial length of said inductance comprising a rotatable cam having a configuration representative of the heat absorbing capabilities during a heating cycle of a charge to be heated by said heating device whereby the output of said generator may be controlled in a predetermined manner during a heating cycle.

2,588,305
PROCESS FOR DISTILLING HYDROCARBONS
Henry Earl Sullenger, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Continuation of application Serial No. 550,208, August 19, 1944. This application May 7, 1948, Serial No. 25,557
1 Claim. (Cl. 196—71)



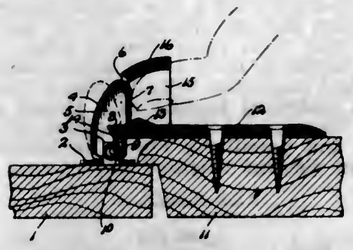
In a process for distilling a multicomponent hydrocarbon mixture which comprises separating a liquid feed stock thereof into a high boiling fraction and a low boiling fraction, the improvement comprising injecting said feed stock at a substantially uniform rate of flow and at a substantially uniform temperature level into a fractionating zone, withdrawing a major fractional portion of the higher boiling product appearing as residue in said zone at a substantially uniform rate, subjecting said portion of high boiling liquid product to indirect heat exchange with said liquid feed stock, withdrawing the remaining fractional portion of high boiling residue from the bottom of said fractionating zone at a variable rate in response to the level of accumulated residue in the lower section of said fractionating zone to maintain the level of accumulated residue in said zone substantially constant, and combining as a residual product the two fractions of residue thus separately withdrawn from the base of the distillation zone.

2,588,306
FRACTURABLE SEAL
Alfred H. Taylor, Jr., Tuckahoe, N. Y., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application June 7, 1949, Serial No. 97,531
17 Claims. (Cl. 222—541)



1. A fracturable seal which comprises a tube-like conduit a portion at least of which is made of a glass-sealing metallic alloy, and a fracturable member disposed substantially within said conduit and hermetically sealed to a portion of the conduit made of glass-sealing metallic alloy, said fracturable member normally preventing the passage of fluid through said conduit, and a portion of the conduit adjacent the fracturable member being pliable so that such portion may be deformed to rupture the fracturable member.

2,588,307
FINGER RELEASE LATCH
Herman Ter Meer and William W. Peterson, Grand Rapids, Mich., assignors to National Brass Company, Grand Rapids, Mich., a corporation of Michigan
Application July 19, 1948, Serial No. 39,464
1 Claim. (Cl. 292—219)



In a latch structure for a door hingedly mounted to swing upon a door frame, the combination comprising: a plate adapted to be mounted to said door with one end of said plate projecting beyond an edge of said door; a lip on said one end of said plate; a U-shaped hood immediately adjacent said lip and projecting away from said plate in the direction of movement of said door as said door is opened; the legs of said hood being equally spaced from the center of said lip and arranged one on each side thereof; said hood defining an opening therethrough large enough to receive a human finger; a base member mounted on said door frame; a strike element pivotally mounted on said base member for movement toward and away from said lip; a spring for urging said strike element toward said lip; said strike element having an outward portion for substantially closing the end of said opening adjacent said lip; a shoulder on said strike element for engaging said lip and holding said lip against movement in the direction of movement of said door when said door is opened.

2,588,308
FRUIT WHIP
Donald K. Tressler, Westport, Conn.
No Drawing. Application August 23, 1949, Serial No. 111,975
3 Claims. (Cl. 99—139)

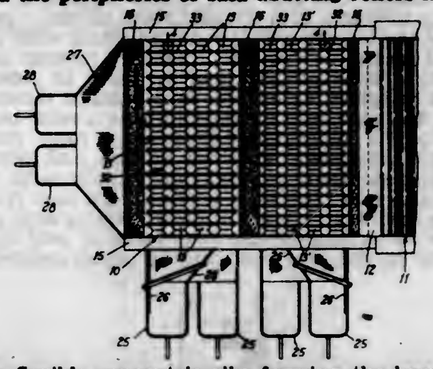
1. A dry powdered product for the making of a fruit whip by the addition thereto of water, such product comprising a mixture of the following in substantially these proportions:

	Parts by weight
Milk powder	10
Gelatine	10
Sugar	50
Dehydrated fruit	30
Irish moss extract	1

2,588,309
SIZING ROLL CONSTRUCTION FOR POTATO GRADERS
Abner J. Troyer, Smithville, Ohio
Application July 29, 1950, Serial No. 176,606
7 Claims. (Cl. 209—106)

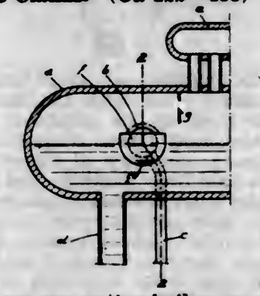
1. In a potato grading machine, a plurality of parallel rows of axially abutting rubber rollers having smooth annular grooves and forming substantially circular sizing openings between rows,

each groove being formed by two abutting rollers, and the peripheries of said abutting rollers hav-



ing flexible concentric ribs forming the base of the groove.

2,588,310
BOILER
Henri Veyssiere, La Seyne-sur-Mer, France, assignor to Societe Anonyme des Forges et Chantier de la Mediterranee, Paris, France, a corporation of France
Application April 6, 1949, Serial No. 85,837
In France April 8, 1948
3 Claims. (Cl. 122—488)

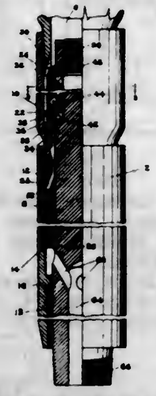


1. In a steam generating boiler, an upper boiler drum having water at a level to partially fill said drum, a header opening into said drum at said water level and partially filled with water, and a plurality of vaporizing tubes connecting with said header below said water level, the provision of an upwardly open cup-like element in said drum across the junction of said header with said drum, the top of said element being open along a plane parallel with and slightly above the water surface in said drum and the zone over said top being unimpeded, said cup-shaped element having a surface positioned relative to the outlet from the header and to the surface of the drum above the cup-like member to direct the water-steam emulsion from the header over the surface of the water in the drum and whereby the flow of said emulsion from the header into the drum is held steady.

2,588,311
OIL WELL DRILLING APPARATUS
George P. Wagner, Mount Vernon, N. Y., assignor to The Engineering Development Company, Incorporated, doing business as Engineering Development Company, Incorporated, Dallas, Tex.
Application October 28, 1946, Serial No. 706,253
9 Claims. (Cl. 255—4)

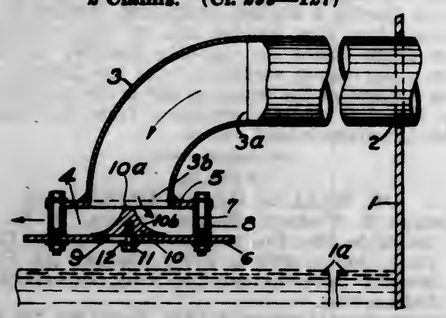
1. An oil well drilling device comprising a tur-

bine having a stator and a rotor, means to secure the stator to a drill pipe, means secured to the rotor to hold a drill bit, said rotor having a passage therein capable of communicating with the mud passage of a drill bit connected thereto, said turbine being adapted and arranged to receive and be driven by drilling mud pumped through the drill pipe, said rotor comprising a rotor body portion, a plurality of superposed rotor rings surrounding said rotor body portion, and means locking said rotor rings against rotation with respect to said rotor body portion, each such rotor ring having a plurality of blade forming slots cut into its outer face, the rear faces of said slots being curved, said slots lying in planes generally



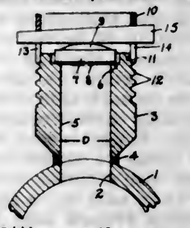
parallel to the longitudinal axis of the turbine and forming a small angle with the tangent planes of the rotor rings at the points of entrance of the slots, and said stator comprising a stator body portion, a plurality of superposed stator rings within said body portion, and means locking said stator rings against rotation with respect to the stator body portion, each such stator ring having a plurality of blade forming slots cut into its inner face, the rear faces of said slots being curved, said slots lying in planes generally parallel to the longitudinal axis of the turbine and forming a small angle with the tangent planes of the stator rings at the points of entrance of the slots.

2,588,312
FOAM DISTRIBUTOR NOZZLE
Richard P. Walker, Essex, Md., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 31, 1949, Serial No. 113,260
2 Claims. (Cl. 299—127)



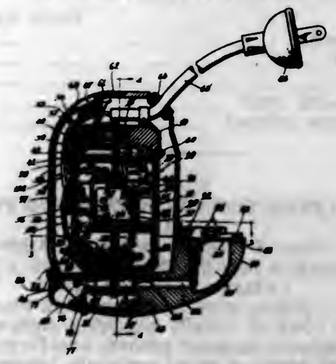
1. In a means for distributing fire foam, a conduit member having an inlet end and an outlet end, and a nozzle secured to said conduit member at the outlet, comprising an upper, annular, distributor plate mounted concentrically with said conduit at the outlet, extending radially outward therefrom, a lower distributor plate element, of substantially greater radius than said upper element, rigidly suspended from the upper element in concentric, spaced, parallel relation therewith, a slotted portion in said lower element, shorter than a radius of the conduit, extending radially from the center of said element, a flow shaping cone element, having a base radius greater than said slotted portion, disposed on the upper surface of said lower plate element extending upwardly therefrom toward said conduit outlet, and a stud bolt concentric with the base of said cone element extending through said slotted portion of the lower plate element securing said cone thereto and permitting radial displacement of said cone element longitudinally of said slotted portion.

2,588,313
WEDGE CLOSURE FITTING
Louis Joe Weber, Bartlesville, Okla., and Luther David Ringo, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware
Application January 7, 1948, Serial No. 936
6 Claims. (Cl. 220—57)



2. A closure fitting of the type described comprising a body having a longitudinal passage therethrough and a terminal spherical seat therein, a plug having an upper curved surface and a lower spherical surface for engaging said seat, a collar surrounding said seat and having diametrically opposed openings therein, and a wedge member engaging the curved top of said plug and said ring through said openings to firmly force the spherical bottom of the plug onto the spherical seat of the body.

2,588,314
ELECTRIC HEATER
Gerald C. Wicks, New York, N. Y.
Application October 16, 1947, Serial No. 780,229
9 Claims. (Cl. 219—39)



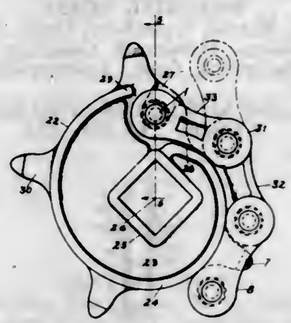
1. In an electric water heater, a body having an internal insulated fluid chamber, exposed electric heating elements in said chamber, a fluid path for said chamber and through said body comprising electrically non-conducting restricted channels of preselected dimensions formed in said body and leading into and out of said fluid chamber so that fluid flow through said restricted channels ohmically resists communication of effective derivative currents from the chamber and formed therein by contact between the fluid and the heating element, and circuit controlling means in one of said channels and comprising a pair of spaced electrodes and a pressure switch in series electric circuit, the said electrodes being adapted to be electrically closed by and when intervened by water and the pressure switch being adapted to be electrically closed when there is fluid flow at predetermined pressure.

2,588,315
HEATING APPARATUS
Arthur W. Ziegler, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 26, 1949, Serial No. 95,455
7 Claims. (Cl. 263—6)



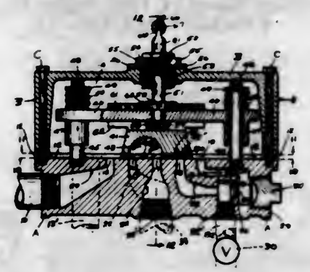
1. In a device for heating small articles, a bed of heat conducting material having a plurality of apertures in the sides thereof, and heater means positioned in one of said apertures, said apertures being of increasing size extending away from said heater means.

2,588,316
HOPPER BOTTOM LOAD DISCHARGING CAR
Albert E. Zimmer, Chicago, Ill., assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application April 8, 1948, Serial No. 19,805
4 Claims. (Cl. 105—292)



1. A winding mechanism for operating the hopper door of a railway hopper car or the like, in combination, a rotatable shaft having a winding member thereon provided with chain attaching means; and a chain adapted to be connected at one end to said door, said chain having split hinged sections at the opposite end adapted to embrace said attaching means, and shiftable with respect to each other to facilitate attachment and detachment; and means for fixing said hinged sections against detachment.

2,588,317
WATER SOFTENING SYSTEM VALVE
Ralph D. Zimmerman, Omaha, Nebr.
Application December 10, 1946, Serial No. 715,250
3 Claims. (Cl. 251—54)

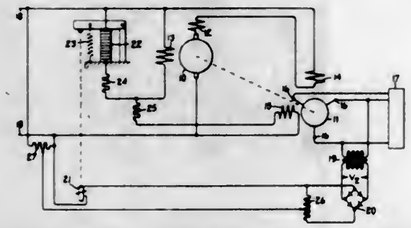


1. In a mixing valve, the combination which comprises a valve body having a plurality of spaced aligned openings providing ports opening into a flat surface with each port communicating with a passage extended through the said valve body and to an external connection thereof, spaced parallel posts mounted on said valve body, a guide plate slidably mounted on said posts, spaced from, aligned with, and parallel to the said flat surface of the valve body, a valve head having a recess in the under surface carried by and slidably mounted on the said guide plate and slidable on the said flat surface, the recess of the said valve head positioned to extend over a plurality of the said ports and the upper part of the said valve head having a gear rack thereon, resilient means on the said posts urging the said guide plate and valve head toward the valve body, a valve bonnet mounted on the said valve body and positioned over the guide plate and valve head, a shaft journaled in the said valve bonnet, a pinion on the said shaft positioned to mesh with the said gear rack of the valve head, and means for rotating the said shaft from the exterior of the valve bonnet for shifting the valve head over the said ports.

2,588,318
WATER EMULSIFIABLE SOIL-POISON CONCENTRATE
Paul George Benignus, Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application February 7, 1949, Serial No. 75,095
2 Claims. (Cl. 167—43)

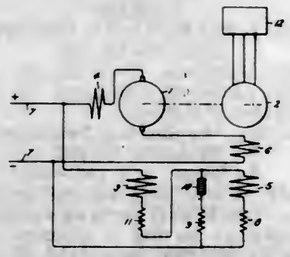
1. A water emulsifiable soil poison concentrate comprising from 25 to 45 parts by weight of a chlorinated biphenyl having a chlorine content of from 15 to 54 per cent by weight, 25 to 45 parts by weight of trichlorobenzene, 7 to 13 parts by weight of pentachlorophenol, 2.5 to 4.5 parts by weight of isopropyl alcohol, 10 to 20 parts by weight of an aromatic oil boiling between 170° F. and 570° F., 0.5 to 1.5 parts by weight of the nonresinous condensation product of 1 part of a substance selected from the group consisting of abietic acid, abietic anhydride, isomers of abietic acid, salts of abietic acid, esters of abietic acid, resin acids, rosin, rosin oil and tall oil with at least 0.5 part and less than 5 parts by weight of ethylene oxide, and 0.25 to 1.25 parts by weight of a surface-active agent selected from the group consisting of aromatic oil soluble organic sulfates and sulfonates having a Draves wetting time of 10.5 seconds or less in a 0.5 per cent aqueous solution.

2,588,319
DYNAMOELECTRIC MACHINE REGULATING SYSTEM
Alec Fisher, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application March 14, 1951, Serial No. 215,490
6 Claims. (Cl. 322—16)



1. In a regulating system for a D.-C. motor—A.-C. alternator set adapted to operate from a variable voltage D.-C. input to supply substantially constant voltage and frequency A.-C. output, the combination of a field exciting winding for said motor, a mechanical regulator arranged in the circuit of said motor field winding to affect the current therethrough, said regulator being arranged responsive to the frequency of said output, a field exciting winding for said alternator, and circuit connecting means for placing said alternator field winding in series circuit with the circuit of said motor field winding and said regulator all in circuit across said input thereby to maintain substantially constant current through said alternator field winding and consequent constant voltage output despite variations of load or input voltage.

2,588,320
DYNAMOELECTRIC APPARATUS
Paul Lebenbaum, Jr., and Alec Fisher, Lynn, Mass., assignors to General Electric Company, a corporation of New York
Application March 14, 1951, Serial No. 215,516
3 Claims. (Cl. 322—16)



1. In combination a direct current motor having an armature and a field exciting winding; an alternating current generator adapted to be driven by said motor and having a first field exciting winding and a second field exciting winding; a non-linear resistor having a negative voltage-resistance characteristic; means including connections for energizing said motor armature; means including connections for energizing said first generator field winding in accordance with the current in said armature; a plurality of parallel circuits one of which includes said second generator field winding and the other of which includes a said non-linear resistor; and means including connections for energizing said motor field winding in series circuit with said plurality of parallel circuits.

2,588,321
PICTURE ART SET
Alfred Hahn, Forest Hills, N. Y., assignor to Union Novelty Company, Inc., New York, N. Y., a corporation of New York
Application May 19, 1950, Serial No. 162,886
1 Claim. (Cl. 35—1)



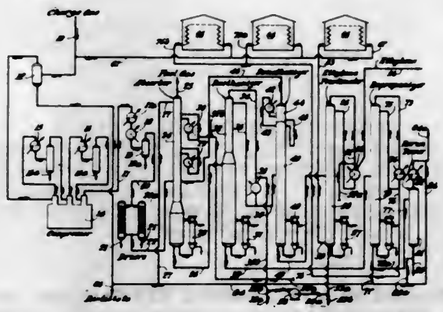
In a picture art set, the combination of an educational card of a front sheet of unperforated paper and a rear sheet of unperforated fabric of close mesh integrally joined together, the front sheet having on its outer surface a complete picture of the matter to be completed by the application of sequins and beads, and the rear sheet having on its rear surface a pin point registration in replica of the said front picture with additional printed indications of the sequins and beads on said rear picture aligned with the exact point where the sequins and beads are to be applied to the front part, showing the exact positions where actual sequins and beads are to be applied by threading to the front surface of the front sheet, and stitching passing through said sheets to hold the actual sequins and beads to the front surface of the paper sheet, in exact accordance with the picture on the rear of the sheet.

2,588,322
WEIGHING SCALE
Clifford G. Herbst, Waterbury, Conn., assignor to The Eastern Metalcraft Company, Incorporated, Waterbury, Conn., a corporation of Connecticut
Application April 16, 1948, Serial No. 21,531
1 Claim. (Cl. 265—27)



In a weighing scale, a means for adjustably supporting a weighing spring including a top plate provided with an aperture therein having two opposite flat sides, a threaded stud in said aperture said stud having two opposite flat sides slidably engaged with the flat sides of said aperture, a nut on said stud above said top plate, said nut having a non-circular periphery there being a shallow depression in said top plate surrounding said aperture adapted to serve as a seat for said nut and having a shape similar to the nut, said threaded stud being incompletely threaded at its upper end, whereby said nut cannot become accidentally disengaged therefrom.

2,588,323
PRODUCTION OF ETHYLENE
Ludwig Kniel, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application September 3, 1949, Serial No. 114,023
11 Claims. (Cl. 260—677)

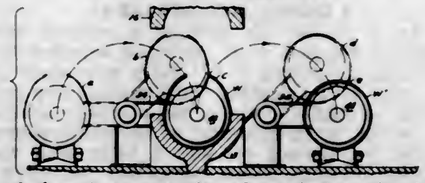


1. An improved process for the conversion of a normally gaseous hydrocarbon mixture heavier than methane to an unsaturated hydrocarbon of lower molecular weight which comprises passing a stream of the hydrocarbon through a heated conversion zone under conditions of temperature, pressure, and time such as to produce an optimum yield of a hydrocarbon of lower molecular weight and a minimum yield of hydrocarbons of higher molecular weight, cooling said hydrocarbons to prevent further reaction, drying said cooled hydrocarbons to remove water therefrom, passing said cooled effluent to a recovery means, separating gases lighter than ethylene from the effluent by absorption-rectification, separating the ethane, ethylene, and methane fraction from the heavier effluent in a deethanizer in the presence of refrigerated reflux, injecting methyl alcohol into the deethanizer overhead, removing the net deethanizer overhead and subjecting it to further rectification to drive off fractions lighter than ethylene, fractionating the rectified deethanizer overhead in the presence of refrigerated reflux into an ethylene overhead and a bottoms comprising ethane and alcohol, drawing off the alcohol separately from the ethane bottoms, and drawing off the ethane.

2,588,324
DENTAL PASTE
John B. Lewis, Englewood, N. J., and Leonard Kenner, New York, N. Y., assignors to Amm-I-Dent, Inc., Jersey City, N. J., a corporation of New Jersey
No Drawing. Application October 13, 1949, Serial No. 121,226
10 Claims. (Cl. 167—93)

1. A dental paste comprising an active agent of urea and dibasic amonium phosphate, substantially grit-free neutral abrasive, and a substantially neutral vehicle wherein said agent is in solution, said vehicle consisting essentially of 10 to 20 parts by weight of sorbitol, 8 to 15 parts by weight of glycerol and 15 to 25 parts by weight of water.

2,588,325
SIDE-FED FORMING PRESS FOR ELONGATED WORKPIECES AND FEED AND DISCHARGE MECHANISM THEREFOR
Donald O. McCall, Napa, Calif., assignor to Basalt Rock Company, Inc., Napa, Calif., a corporation of California
Application June 30, 1949, Serial No. 102,358
21 Claims. (Cl. 153—49)



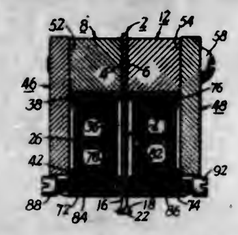
1. A forming press for elongated work pieces comprising, in combination: a pair of longitudinally elongated, relatively movable forming members; means for moving said members apart and toward each other; support means on one side of said forming members for supporting an elongated work piece alongside of the forming members; and transfer means for engaging the work piece at its ends and transferring it between a position amidst said forming members and said alongside position by a lateral movement of the work piece comprising a loading beam at each end of the forming members having supported ends and free ends and mounted for movement of the free ends transversely to the forming members, each loading beam having at the free end thereof an engaging plunger movable with respect to the loading beam and carried thereby to enter the end of a hollow work piece, whereby said work piece and engaging plungers are moved transversely when the loading beams are moved simultaneously; said press being unobstructed between said support means and said forming members throughout the distance between said engaging plungers.

5. A forming press for elongated work pieces adapted for side loading and side discharging comprising, in combination: a pair of longitudinally elongated, relatively movable forming members; means for moving said members apart and toward each other; a support on each side of said forming members, the first for supporting elongated work pieces to be formed alongside said forming members on one side thereof and the second for supporting formed work pieces discharged from the press on the other side thereof; a first pair of engaging plungers at opposite ends of the forming members for supportingly engaging a work piece to be formed at the ends thereof when on said first support; a second pair of engaging plungers at opposite ends of the forming members for supportingly engaging a formed work piece at the ends thereof when amidst said forming members; and a separate, pivotally mounted loading beam for each of said engaging plungers, each plunger being reciprocably movably mounted on its respective loading beam and disposed to enter an end of a hollow elongated work piece, said loading beams being mounted for loading a work piece to be formed from the first support on one side of the forming members to a position amidst the forming members by lateral movement of the work piece and for discharging a formed work piece from a position amidst the forming members onto said second support on the other side by a lateral movement of the work piece; said press being unobstructed on both sides between the forming members and the supports throughout the distance between said engaging plungers.

2,588,326
MANUFACTURE OF BLOCK GREASE
Albert B. Ogden, Franklin, Pa., Richard A. Butcook, Jackson Heights, N. Y., and Raymond C. Williams, Franklin, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application July 28, 1949, Serial No. 107,378
4 Claims. (Cl. 252—42.4)

1. In a process for cooking a mineral lubricating oil fraction with materials selected from the group consisting of (1) fatty acid soaps and (2) fatty acids together with saponifying compounds to manufacture a block grease containing, as the predominating constituents thereof, mineral lubricating oil and a fatty acid soap, the improvement which comprises including in the cooking batch a small amount, less than about 1 per cent by weight, of an ester of a dibasic carboxylic acid with an aliphatic alcohol.

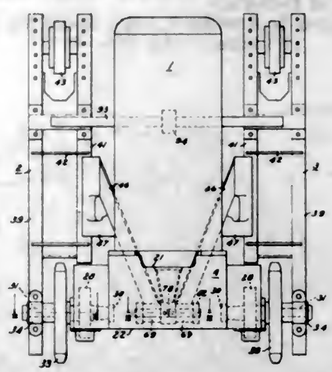
2,588,327
RECORDER HEAD
Frederick W. Roberts, Fairfield, and Frederick L. Frans, West Haven, Conn., assignors to Dictaphone Corporation, Bridgeport, Conn.
Application January 31, 1948, Serial No. 5,646
8 Claims. (Cl. 179—100.41)



1. A recorder for inscribing sound signals on a record surface, comprising, a permanent source a magnetic flux, spaced and oppositely disposed magnetizable pole tips connected to opposite poles of said permanent magnet source, a resilient reed-armature rigidly supported at one end and of uniform thickness throughout its unsupported portion and having a portion thereof disposed between said pole tips and free to vibrate relative thereto, a stylus supported by said reed-armature and arranged to move therewith to inscribe sound signals on a record surface in accordance with vibrations of said reed-armature, and an actuating coil surrounding a portion of said reed-armature for causing said reed-armature to vibrate in accordance with electrical signals applied to said coil.

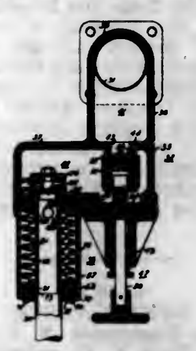
2,588,328
TRACK FRAME MOUNTING FOR CRAWLER TRACTORS
Frederick A. Schick, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 17, 1947, Serial No. 735,195
27 Claims. (Cl. 180—9.1)

1. In a crawler tractor having a forked track frame pivotally connected at its outer leg to an axle shaft and at its inner leg to a housing structure mounting said axle shaft, the combination of an annular bearing element mounted on said axle shaft at its axially outer end in rotatable relation thereto, a first bracket element integrally connected with said outer leg of said track frame and having an upwardly facing arcuate recess seating said annular bearing element, a first cap member overlying said bearing element, means for detachably fastening said first cap member on said track frame in cooperative relation with said bearing element and thereby securing the latter in said arcuate recess of said first bracket element, a pivot pin rotatably mounted on said inner leg of said track frame, second and third bracket elements integrally



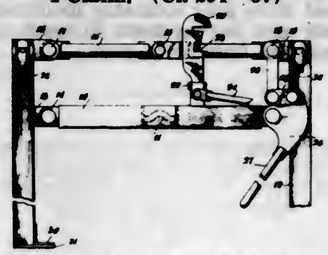
connected with said housing structure and having downwardly facing arcuate recesses, respectively, seating said pivot pin at opposite sides of said inner leg, second and third cap members underlying said pivot pin, and means for detachably fastening said second and third cap members on said housing structure in cooperative relation with said pivot pin and thereby securing the latter in said recesses of said second and third bracket elements.

2,588,329
PNEUMATIC CONTROL
Thomas G. A. Sillers, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application February 20, 1947, Serial No. 729,754
3 Claims. (Cl. 200—81)



1. Circuit control apparatus comprising a switch having fluid-operated contact separating means for breaking an electric circuit, said apparatus comprising a circuit containing fluid under pressure, means for simultaneously affording connection of said switch with said electric and fluid pressure circuits comprising first electric terminals connected with said electric circuit, first conduit means connected with said fluid pressure circuit, second electric terminals connected with said switch and engageable with said first electric terminals for connecting said switch to said electric circuit, second conduit means connected to said contact separating means and engageable with said first conduit means for supplying said fluid-operated contact separating means with fluid under pressure from said fluid pressure circuit, common actuating means for effecting simultaneous movement of said second electric terminals and said second conduit means for engagement with said first electric terminals and said first conduit means respectively whereby said switch is substantially simultaneously connected to said electric and fluid pressure circuits, and means for containing fluid under pressure interposed between said second conduit means and said fluid-operated contact separating means for maintaining the pressure of the operating fluid within predetermined limits during operation of said contact separating means.

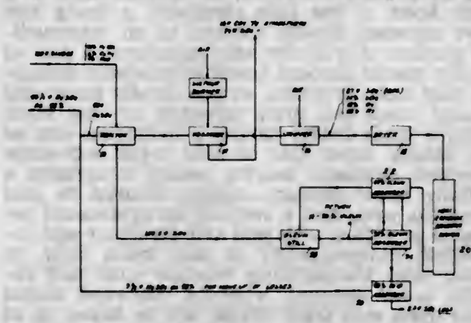
2,588,330
PALLET HOIST ATTACHMENT
Robert P. Sturgis, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application September 26, 1950, Serial No. 186,749
1 Claim. (Cl. 294—67)



A hoist attachment comprising a rectangular, horizontal main frame, means at the center of said frame to receive a hoist hook, a vertical side frame pivotally connected intermediate its upper and lower edges to one side of said main frame, a horizontal upper frame overlying said main frame and pivotally connected along one side to said side frame, said upper frame being hinged along a median line thereof parallel to said side frame, a latch pin on said upper frame, a latch mounted on said main frame and adapted to engage said latch pin for retaining said upper frame parallel to said main frame, means to move said latch to disengage the same from said pin, a second side frame pivotally connected along its upper edge to said upper frame, a pendent link rigidly fixed to and depending from said upper frame adjacent said second side frame, an operating link pivotally connected to said main frame adjacent said second side frame, means to rotate said operating link about its pivot on said main frame, a short link pivotally connected at one end to said operating link at a pivot remote from the said pivot thereof on said main frame and pivotally connected at the other end to said pendent link at a pivot below said upper frame, and means at the bottoms of said side frames to engage a load.

2,588,331
RECOVERY OF ALKYLATION SLUDGE ACIDS
Nicolay Titlestad, White Plains, N. Y., assignor to Nicolay Titlestad Corporation, a corporation of New York
Application March 20, 1948, Serial No. 16,044
4 Claims. (Cl. 23—173)

1. A continuous process of treating acid sludges such as those that result from the alkylation process of producing gasoline that contain H_2SO_4, water, and at least 4% of hydrocarbons, which comprises the steps of continuously passing such a sludge into a reactor where it is heated to approximately the constant boiling temperature of 98% acid, continuously passing into such reactor an amount of concentrated SO_3 gas approximately sufficient to react with all the carbon of such hydrocarbons to form SO_2 and CO_2, utilizing the heat of such reaction for maintaining the liquid



in the reactor at a temperature which is substantially the constant boiling temperature of 98% acid whereby excess water is boiled off, and continuously withdrawing from such reactor approximately the same amount of H_2SO_4 as is being introduced into the same but in the form of purified sulphuric acid of about 98% strength while substantially all the sulphur introduced as SO_3 is volatilized as SO_2 and passes off with excess water vapor and CO_2.

2,588,332
CURTAIN STRETCHER
Kenneth J. Unwin, Kenosha, Wis., assignor, by mesne assignments, to Quaker Stretcher Company, Kenosha, Wis., a corporation of Wisconsin
Application November 22, 1946, Serial No. 711,739
3 Claims. (Cl. 45—24)



1. In a curtain stretcher, a rail including two longitudinally extending adjoining members, a row of resilient fastening devices having anchor portions disposed between said members, screws interconnecting said members, the anchor portions of said fastening devices being looped around said screws, and said fastening devices extending from the anchor portions thereof to lie normally against the face of said rail, pointed hooks on the free ends of said fastening devices, said rail having a groove therein for receiving said hooks, and a shuttle slidable along said rail having a member adapted to cooperate with said fastening devices for moving said hooks out of said groove and then permitting said fastening devices to be restored for enabling said hooks to re-enter said groove.

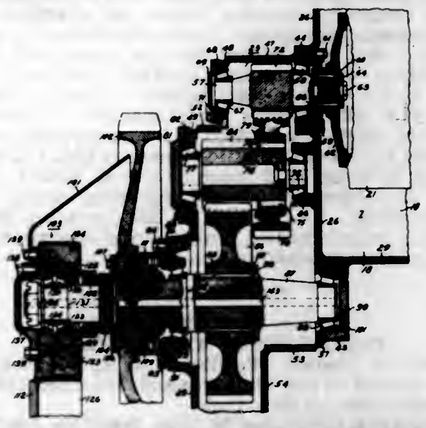
2,588,333

DRIVE AXLE AND TRACK FRAME MOUNTING FOR CRAWLER TRACTORS

William F. Wilson, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application March 3, 1947, Serial No. 732,029
3 Claims. (Cl. 180—9.1)

3. In a crawler tractor, the combination of a main body, a live axle structure, a track belt drive sprocket fixedly secured to an intermediate portion of said live axle structure; a pair of axially spaced inboard bearings rotatably mounting said axle structure, at the axially inner side of said track belt drive sprocket, on said main body; a track frame having a mounting arm at the axially outer side of said track belt drive sprocket; outboard bearing means comprising a radially outer element rigidly secured to said mounting arm, and a radially inner element rotatable in unison with said axle structure and associated, independently of said main body, in radial load transmitting relation with said radially outer element, whereby rearward thrust loads upon said track frame will be taken up at said mounting arm entirely by said outboard bearing means; load transmitting means operatively interposed between said main body and track frame for stabilizing said track frame against toeing in and out and against lateral tilting relative to said main body; a final drive gear fixedly secured to said axle structure in the



space between said inboard bearings; and another final drive gear rotatably mounted on said main body and having teeth in mesh with said first mentioned final drive gear.

DESIGNS

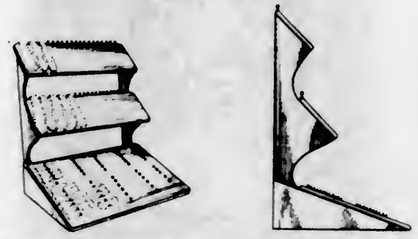
MARCH 4, 1952

166,060

NECKTIE DISPLAY SUPPORT OR SIMILAR ARTICLE

Morris Aron, South Norwalk, Conn.

Application June 29, 1950, Serial No. 10,839
Term of patent 14 years
(Cl. D80—9)



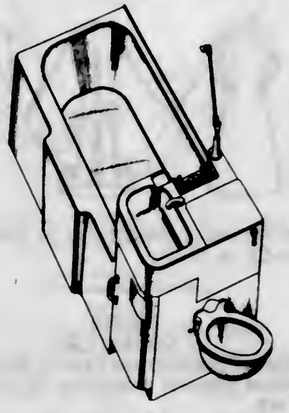
The ornamental design for a necktie display support or similar article, as shown and described.

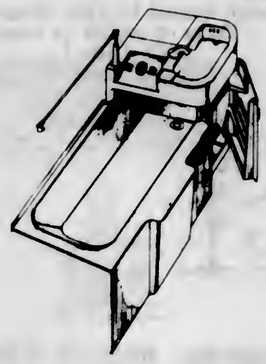
166,061

COMBINATION BATHROOM UNIT

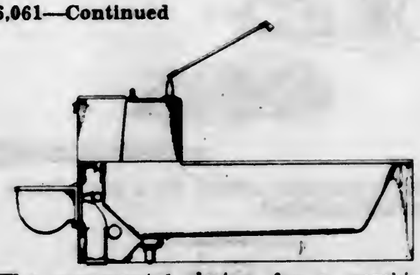
Landrum E. Bagwell, Brevard, N. C.

Application February 10, 1951, Serial No. 14,166
Term of patent 14 years
(Cl. D4—4)





166,061—Continued



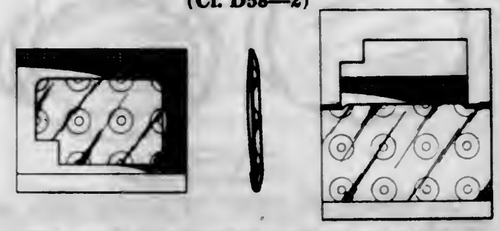
The ornamental design for a combination bathroom unit, substantially as shown and described.

166,062

PACKAGE FOR JEWELRY FINDINGS AND THE LIKE

Murray L. Berrie, New York, N. Y.

Application April 6, 1951, Serial No. 14,740
Term of patent 14 years
(Cl. D58—2)



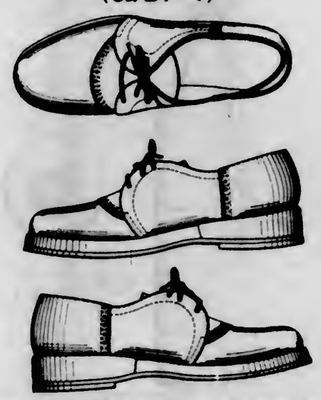
The ornamental design for a package for jewelry findings and the like, substantially as shown and described.

166,063

SHOE

Stanley E. Bishop, Cambridge, and Nathan J. Liasak, New Bedford, Mass.

Application December 7, 1951, Serial No. 17,647
Term of patent 7 years
(Cl. D7—7)



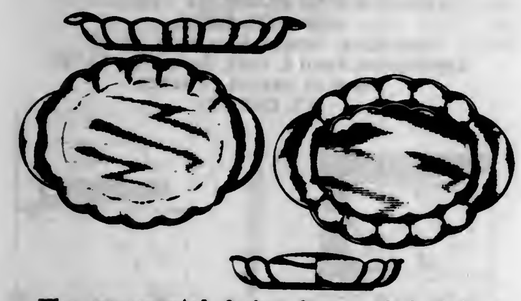
The ornamental design for a shoe, substantially as shown and described.

166,064
POCKETKNIFE
Boris Blecher, Philadelphia, Pa.
Application September 21, 1951, Serial No. 16,695
Term of patent 14 years
(Cl. D22—3)



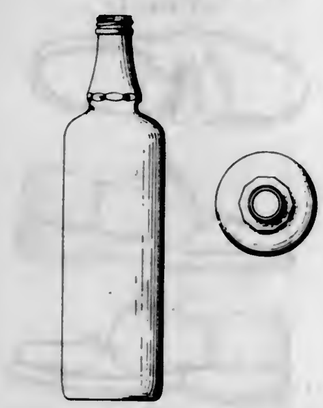
The ornamental design for a pocketknife, as shown and described.

166,065
SALAD PLATE
Charles O. Bliss, Los Angeles, Calif.
Application December 3, 1951, Serial No. 17,653
Term of patent 14 years
(Cl. D44—15)



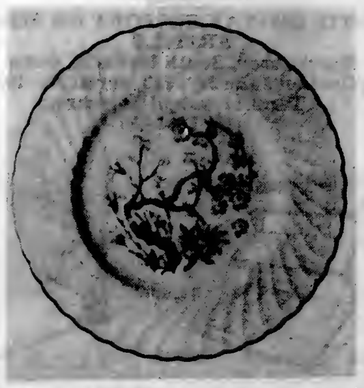
The ornamental design for a salad plate, as shown.

166,066
BOTTLE OR SIMILAR ARTICLE
Walter E. Boschin, San Francisco, Calif., assignor to Glass Containers, Inc., San Francisco, Calif., a corporation of California
Application June 5, 1950, Serial No. 10,350
Term of patent 14 years
(Cl. D58—8)



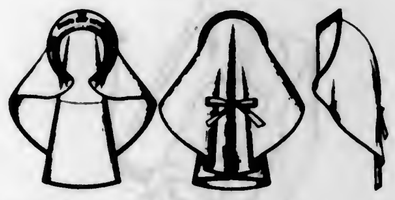
The ornamental design for a bottle or similar article, substantially as shown.

166,067
DINNER PLATE OR SIMILAR ARTICLE
Douglas Bourne, Dubois, Pa., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application May 17, 1951, Serial No. 15,225
Term of patent 14 years
(Cl. D44—15)



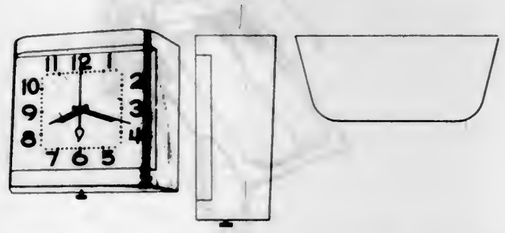
The ornamental design for a dinner plate or similar article, as shown and described.

166,068
HEAD COVERING
Hyman Brand and Irving Kurtz, Brooklyn, N. Y.
Application August 15, 1950, Serial No. 11,774
Term of patent 3½ years
(Cl. D2—13)



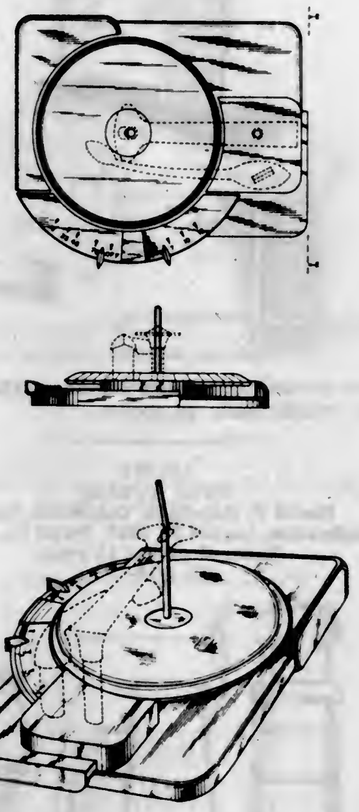
The ornamental design for a head covering, substantially as shown.

166,069
CLOCKCASE
Leo I. Bruce, Framingham Center, Mass., assignor to General Electric Company, a corporation of New York
Application August 11, 1951, Serial No. 16,239
Term of patent 14 years
(Cl. D42—7)



The ornamental design for a clock case, as shown.

166,070
RECORD PLAYER
Robert Davol Budlong, Skokie, Ill.
Application May 1, 1951, Serial No. 15,027
Term of patent 7 years
(Cl. D56—4)



The ornamental design for a record player, substantially as shown and described.

166,071
TOY RAILROAD STATION
Robert L. Butzko, Bridgeport, Conn.
Application September 19, 1951, Serial No. 16,686
Term of patent 14 years
(Cl. D34—15)



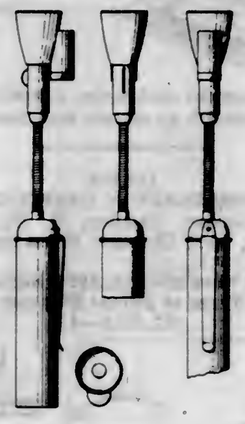
The ornamental design for a toy railroad station, substantially as shown and described.

166,072
ASH RECEIVING RECEPTACLE
Murray Drexler, New York, N. Y.
Application August 26, 1950, Serial No. 11,944
Term of patent 7 years
(Cl. D85—2)



The ornamental design for an ash receiving receptacle, substantially as shown and described.

166,073
FLASHLIGHT
Milton S. Dunkelberger, Dayton, Ohio
Application September 28, 1950, Serial No. 12,379
Term of patent 14 years
(Cl. D48—24)



The ornamental design for a flashlight, as shown.

166,074
STOCKING
Max Fisher, Lower Alsace Township, Berks County, and Frederick L. Ireland, West Reading, Pa., assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application September 19, 1951, Serial No. 16,682
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

166,075
COMBINATION DESK UNIT
Martin Glaberson, Ardsley, N. Y., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware
Application November 21, 1950, Serial No. 13,076
Term of patent 14 years
(Cl. D74—1)



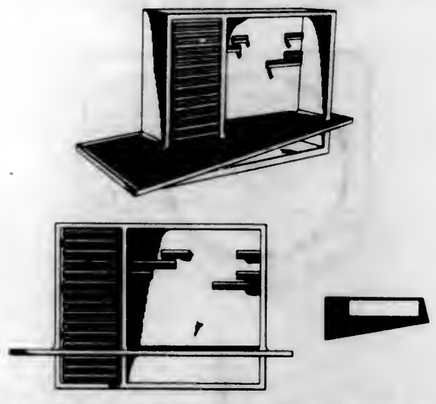
The ornamental design for a combination desk unit, substantially as shown and described.

166,076
COMBINATION DESK UNIT
Martin Glaberson, Ardsley, N. Y., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware
Application November 21, 1950, Serial No. 13,077
Term of patent 14 years
(Cl. D74—1)



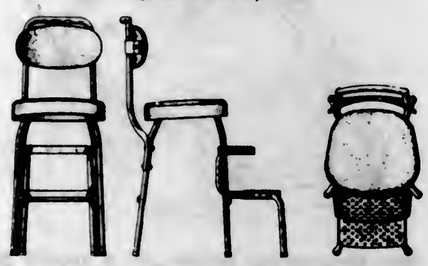
The ornamental design for a combination desk unit, substantially as shown and described.

166,077
ARTIFICIAL FIREPLACE
Xenneth C. Haas, Eggertsville, N. Y.
Application July 23, 1951, Serial No. 15,991
Term of patent 7 years
(Cl. D81—7)



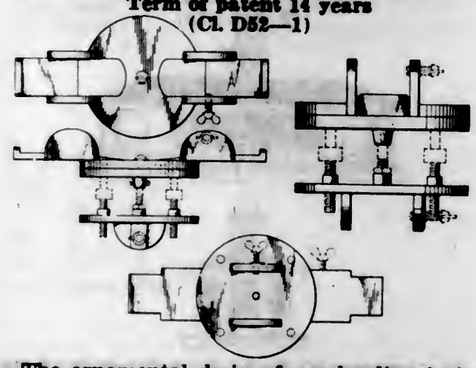
The ornamental design for an artificial fireplace, substantially as shown.

166,078
STEP STOOL
Bertis F. Hamilton, Columbus, Ind.
Application August 21, 1950, Serial No. 11,863
Term of patent 14 years
(Cl. D15—1)



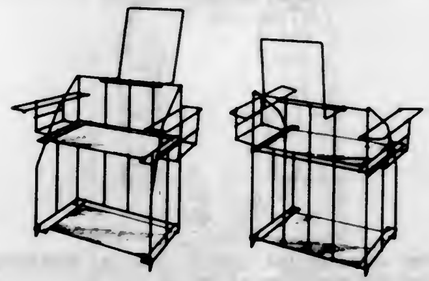
The ornamental design for a step stool, as shown.

166,079
LEVELING INSTRUMENT
William L. Heffern, St. Petersburg, Fla.
Application April 9, 1951, Serial No. 14,763
Term of patent 14 years
(Cl. D52—1)



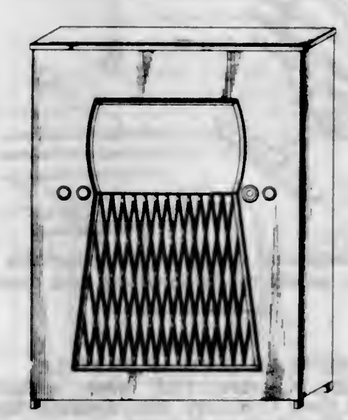
The ornamental design for a leveling instrument, as shown and described.

166,080
SEAT CUSHION DISPLAY UNIT
Walter O. Heinze, Swarthmore, Pa., assignor to International Latex Corporation, a corporation of Delaware
Application March 24, 1950, Serial No. 8,752
Term of patent 14 years
(Cl. D80—10)



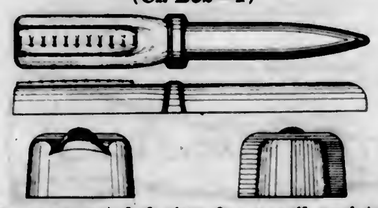
The ornamental design for a seat cushion display unit, substantially as shown.

166,081
TELEVISION CABINET
Inez Mae Johnson, Nedrow, N. Y.
Application April 14, 1951, Serial No. 14,832
Term of patent 14 years
(Cl. D56—4)



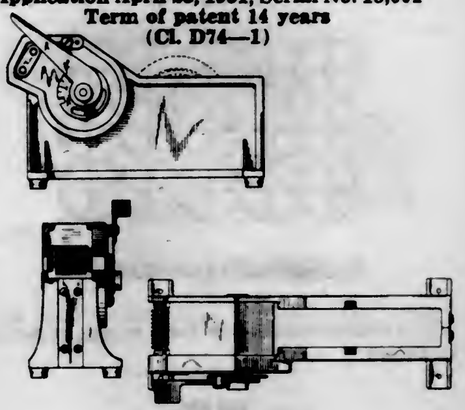
The ornamental design for a television cabinet, as shown.

166,082
SOIL MOISTURE INDICATOR
Oliver J. Knutson, Colorado Springs, Colo.
Application July 7, 1951, Serial No. 15,783
Term of patent 14 years
(Cl. D52—1)



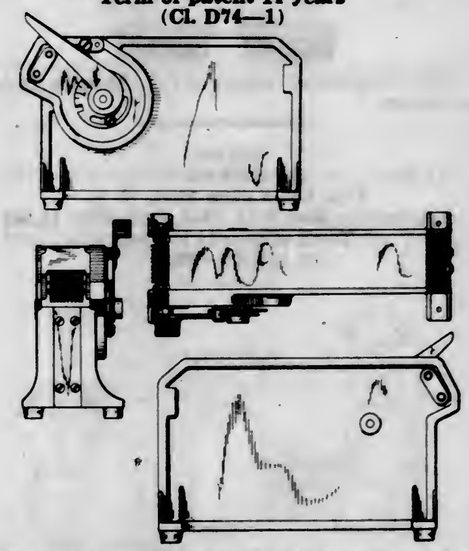
The ornamental design for a soil moisture indicator, as shown.

166,083
TAPE-DISPENSING MACHINE
Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application April 28, 1951, Serial No. 15,001
Term of patent 14 years
(Cl. D74—1)



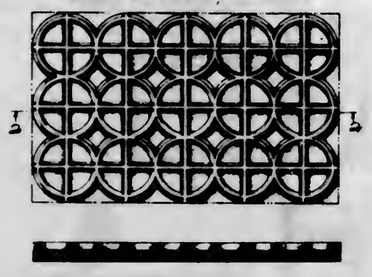
The ornamental design for a tape-dispensing machine, substantially as shown and described.

166,084
TAPE-DISPENSING MACHINE
Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application April 28, 1951, Serial No. 15,002
Term of patent 14 years
(Cl. D74—1)



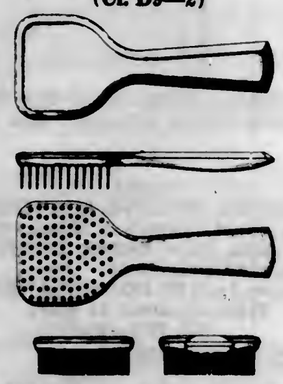
The ornamental design for a tape-dispensing machine, substantially as shown.

166,085
CARPET UNDERLINER
Charles Lachman, Bryn Mawr, Pa.
Application July 18, 1949, Serial No. 3,979
Term of patent 14 years
(Cl. D92—4)



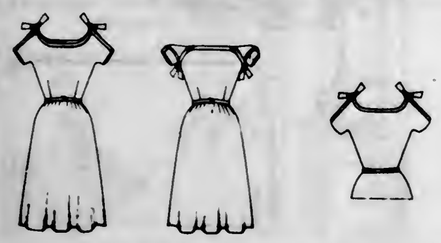
The ornamental design for a carpet underliner, as shown.

166,086
SHAMPOO BRUSH
Alfred L. Le Febvre, Windsor, Conn., assignor to The Fuller Brush Company, Hartford, Conn., a corporation of Connecticut
Application October 21, 1950, Serial No. 12,646
Term of patent 14 years
(Cl. D9—2)



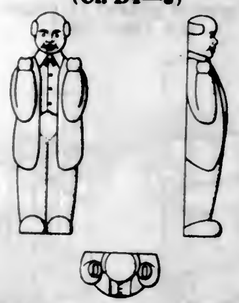
The ornamental design for a shampoo brush, as shown.

166,087
DRESS
Tina Leser, New York, N. Y.
Application March 21, 1951, Serial No. 14,569
Term of patent 3½ years
(Cl. D2—26)



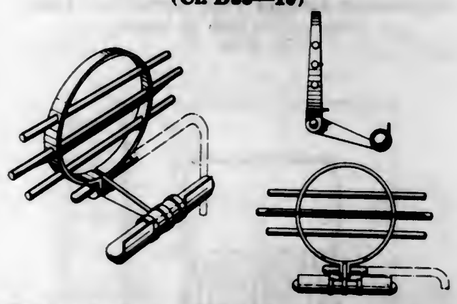
The ornamental design for a dress, substantially as shown and described.

166,088
TOOTHBRUSH HOLDER
Myrtle E. Lindsay, Los Angeles, Calif.
Application August 23, 1951, Serial No. 16,415
Term of patent 7 years
(Cl. D4—3)



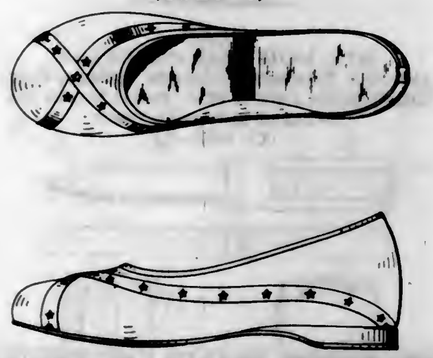
The ornamental design for a toothbrush holder, substantially as shown.

166,089
ADJUSTABLE READING STAND
Frank J. Luketa, Seattle, Wash.
Application February 28, 1950, Serial No. 8,181
Term of patent 14 years
(Cl. D32—10)



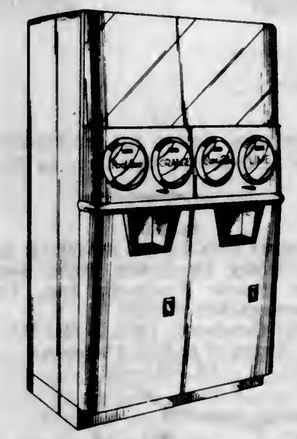
The ornamental design for an adjustable reading stand, substantially as shown and described.

166,090
SHOE OR SIMILAR ARTICLE
Roy Maling, Chestnut Hill, Mass., assignor to Hermal Shoe Company, Inc., Everett, Mass., a corporation of Massachusetts
Application November 6, 1951, Serial No. 17,306
Term of patent 3½ years
(Cl. D7—7)



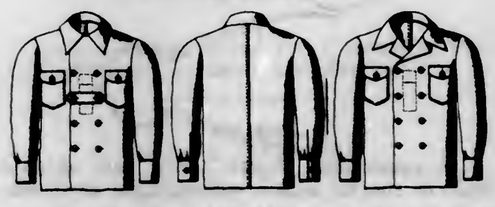
The ornamental design for a shoe or similar article, substantially as shown and described.

166,091
BEVERAGE DISPENSER
Walter P. Margulies, Scarsdale, N. Y., Laird F. Covey, Darien, Conn., and Kenneth H. Tiffany, West Orange, N. J., assignors to Confection Cabinet Corporation, Newark, N. J., a corporation of New Jersey
Application November 9, 1951, Serial No. 17,336
Term of patent 14 years
(Cl. D52—3)



The ornamental design for a beverage dispenser, as shown and described.

166,092
SPORT SHIRT
Jesse D. McDonald, Enid, Okla.
Application November 9, 1951, Serial No. 17,342
Term of patent 14 years
(Cl. D3—25)



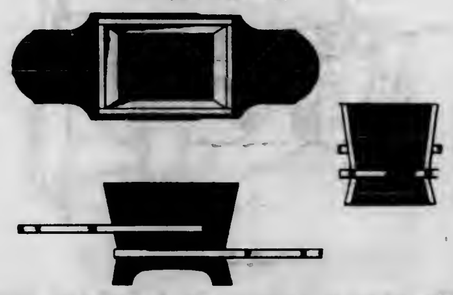
The ornamental design for a sport shirt, as shown and described.

166,093
DIRECT LIGHTING FIXTURE
Robert G. McPhail, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application August 23, 1951, Serial No. 16,414
Term of patent 7 years
(Cl. D48—23)



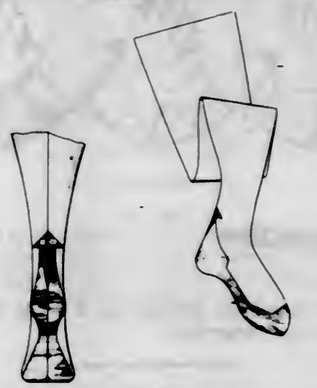
The ornamental design for a direct lighting fixture, as shown.

166,094
PLANTER
Edward E. Mecus, Milwaukee, Wis.
Application November 16, 1951, Serial No. 17,449
Term of patent 3½ years
(Cl. D35—3)



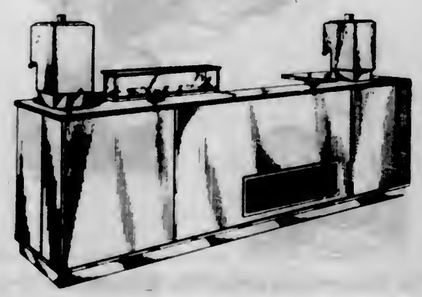
The ornamental design for a planter, substantially as shown.

166,095
STOCKING
Joseph E. Melker, New York, N. Y.
Application July 2, 1951, Serial No. 15,740
Term of patent 14 years
(Cl. D47—7)

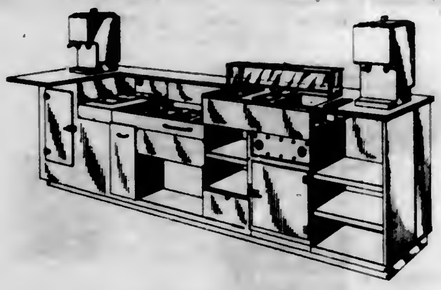


The ornamental design for a stocking, substantially as shown and described.

166,096
FOOD AND DRINK BAR UNIT OR SIMILAR ARTICLE
William S. Milner, Chicago, Ill.
Application January 26, 1950, Serial No. 7,475
Term of patent 7 years
(Cl. D2—3)



166,096—Continued



The ornamental design for a food and drink bar unit or similar article, substantially as shown.

166,097
DRESS ORNAMENT
Minnie Myers, Kingsville, Tex.
Application November 22, 1950, Serial No. 13,092
Term of patent 14 years
(Cl. D45—19)



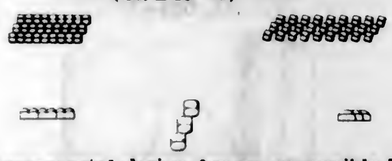
The ornamental design for a dress ornament, as shown and described.

166,098
CLOCKCASE OR SIMILAR ARTICLE
Joseph F. Punzak, Brooklyn, N. Y., assignor to United Metal Goods Manufacturing Co., Inc., Brooklyn, N. Y., a corporation of New York
Application February 16, 1951, Serial No. 14,253
Term of patent 14 years
(Cl. D42—7)



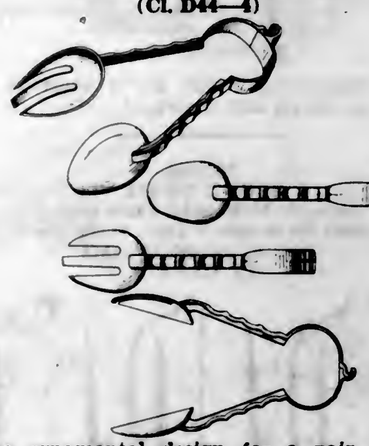
The ornamental design for a clockcase or similar article, as shown and described.

166,099
EXPANSIBLE LINK CHAIN FOR A BRACELET OR THE LIKE
Emil Rodriguez, New York, N. Y., assignor to Jacoby-Bender, Inc., New York, N. Y., a corporation of New York
Application April 25, 1951, Serial No. 14,949
Term of patent 7 years
(Cl. D45—4)



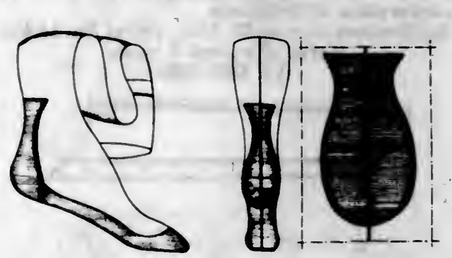
The ornamental design for an expansible link chain for a bracelet or the like, as shown.

166,100
PAIR OF FOOD TONGS OR SIMILAR ARTICLE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application October 1, 1951, Serial No. 16,796
Term of patent 14 years
(Cl. D44—4)



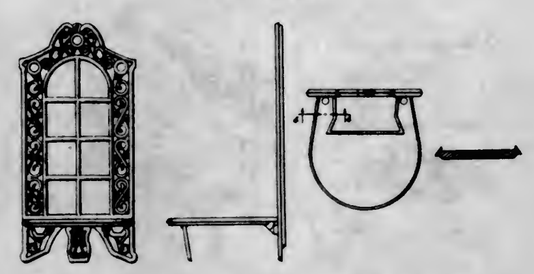
The ornamental design for a pair of food tongs or similar article, substantially as shown.

166,101
STOCKING
Fillmore C. Rosen, Elkins Park, Pa.
Application July 12, 1951, Serial No. 15,827
Term of patent 14 years
(Cl. D47—7)



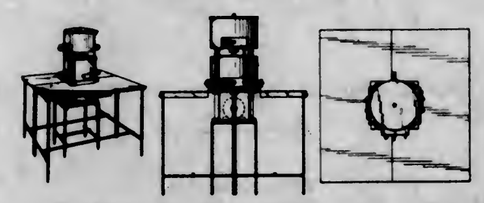
The ornamental design for a stocking, as shown.

166,102
CHINA STAND
Noah Rubin, New York, N. Y., assignor to National Plastic Corp., New York, N. Y., a corporation of New York
Application February 25, 1950, Serial No. 8,141
Term of patent 3½ years
(Cl. D32—3)



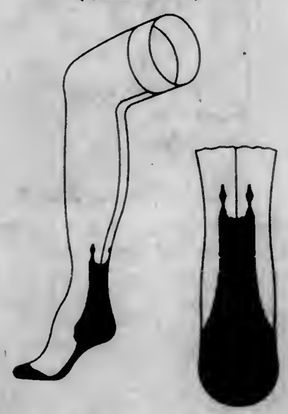
The ornamental design for a china stand, as shown.

166,103
CHOCOLATE TEMPERING MILL UNIT
Robert E. Savage, Winnetka, Ill.
Application December 2, 1950, Serial No. 13,238
Term of patent 14 years
(Cl. D55—1)



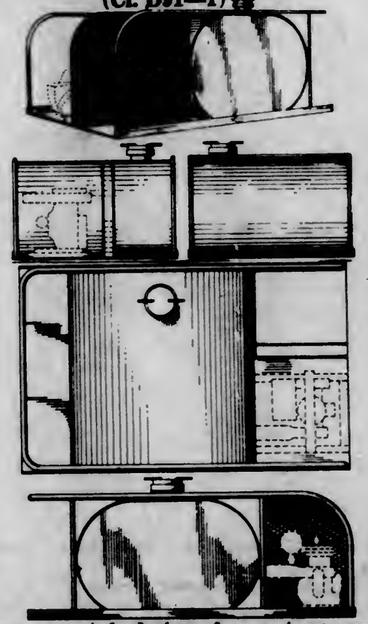
The ornamental design for a chocolate tempering mill unit, as shown and described.

166,104
LADY'S STOCKING
Richard E. Schletter, Cheltenham Township, Montgomery County, Pa.
Application August 21, 1951, Serial No. 16,391
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, as shown.

166,105
TRANSPORTABLE FIRE FIGHTING UNIT
Walter W. Schmitt and Walter H. Schmitt, Grosse Pointe, Mich.
Application June 28, 1951, Serial No. 15,694
Term of patent 7 years
(Cl. D91—1)



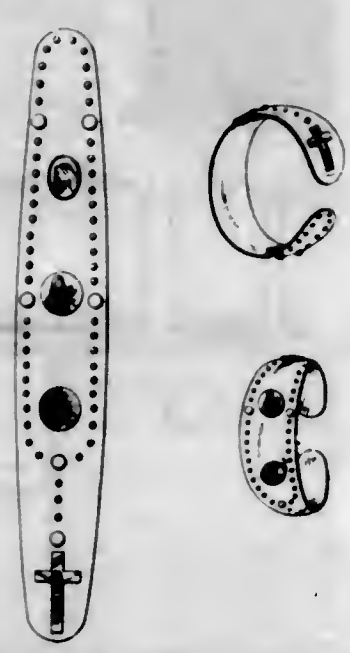
The ornamental design for a transportable fire fighting unit, as shown and described.

166,106
TUBULAR STRIPPING SHOE OR THE LIKE
Henriette Simon, Croton on Hudson, N. Y.
Application October 26, 1951, Serial No. 17,134
Term of patent 7 years
(Cl. D7—7)



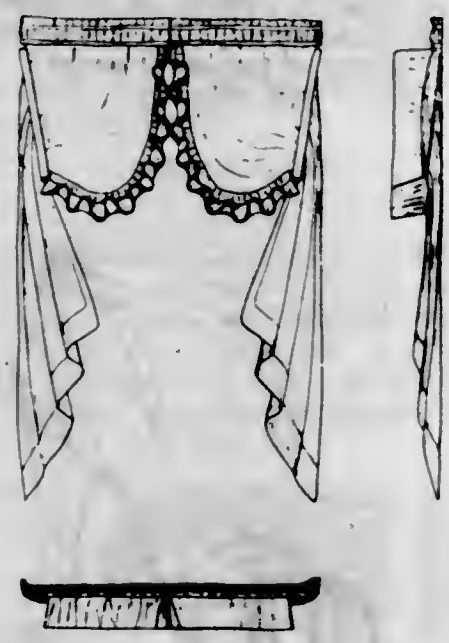
The ornamental design for a tubular stripping shoe or the like, substantially as shown and described.

166,107
ROSARY BRACELET
Elmer J. Towle, San Francisco, Calif.
Application March 2, 1951, Serial No. 14,356
Term of patent 14 years
(Cl. D45—4)



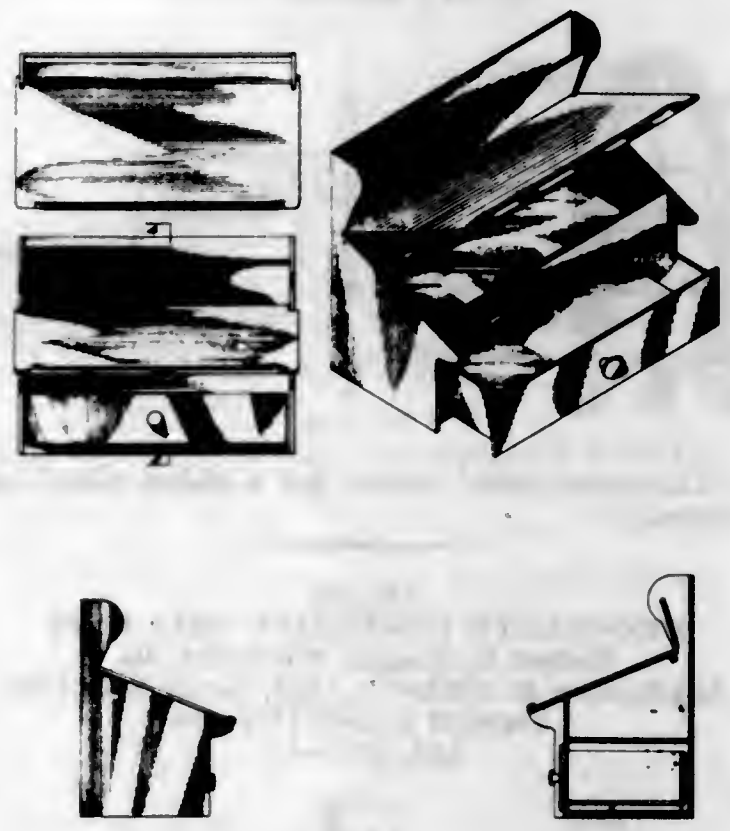
The ornamental design for a rosary bracelet, as shown.

166,108
WINDOW CURTAIN
Florence H. Vance, Oak Park, Ill.
Application July 6, 1949, Serial No. 3,734
Term of patent 14 years
(Cl. D47—6)



The ornamental design for a window curtain, substantially as shown and described.

166,109
WALL DESK
William F. Wadsworth, North Merrick, N. Y.
Application October 16, 1951, Serial No. 16,950
Term of patent 14 years
(Cl. D33—7)



The ornamental design for a wall desk, as shown.

166,110
TABLECLOTH
William Wolf, Philadelphia, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application January 12, 1952, Serial No. 18,032
Term of patent 14 years
(Cl. D92—26)



The ornamental design for a tablecloth, substantially as shown and described.

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A & H Doll Manufacturing Corp., Woodside, N. Y. Dolls. Serial No. 614,802, Mar. 11. Class 22.

Abeles, Walter, Toronto, Ontario, Canada. Pasture seed mixture. Serial No. 592,061, Mar. 11. Class 1.

Abraham & Straus: *See*—
Federated Department Stores, Inc.

Acme-Evans Company, Inc., Indianapolis, Ind. Wheat flour. Serial No. 607,063, Mar. 11. Class 46.

Adamoff Manufacturing Company, Elizabeth, N. J. Men's and boys' leather, wool and wool gabardine coats and jackets. Serial No. 550,981, Mar. 11. Class 39.

Adams, Frederick J., doing business as Adams Welding Service, Philadelphia, Pa. Combination chum pot, minnow trap, and minnow bucket. Serial No. 571,834, Mar. 11. Class 22.

Adams Welding Service: *See*—
Adams, Frederick J.

Advance Colors, Inc., St. Petersburg, Fla. Combination dye and cleaner. Serial No. 609,995, Mar. 11. Class 52.

Advance Polishing Wheels, Inc., Chicago, Ill. Buffs and buffing wheels. Serial No. 608,906, Mar. 11. Class 4.

Alabama Flour Mills: *See*—
Nebraska Consolidated Mills Company.

Alexander, Edward G., Columbia, S. C. Cream deodorant. Serial No. 611,209, Mar. 11. Class 51.

Alexander-Wilson Co., Pasadena, Calif. Combination coaster and snack plates. Serial No. 614,394, Mar. 11. Class 2.

Alkydol Laboratories, Inc., Cicero, Ill. Plasticizers. Serial No. 602,817, Mar. 11. Class 6.

Allen Foods, Inc., St. Louis, Mo. Canned fruits and berries. Serial No. 593,454, Mar. 11. Class 46.

Allen Underwear Manufacturing Co., Inc., New York, N. Y. Ladies' underwear. Serial No. 611,749, Mar. 11. Class 39.

All-Steel Equipment Inc., Aurora, Ill. Disappearing typewriter platforms. Serial No. 617,005, Mar. 11. Class 32.

Althouse Chemical Company, Inc., Reading, Pa. Dyes and dyestuffs. Serial No. 594,680, Mar. 11. Class 6.

Altmann, Bernhard, New York, N. Y. Fabrics, blankets, textile carpets, etc. Serial No. 612,479, Mar. 11. Class 42.

Alumni Research Foundation of the Colleges of Medical Evangelists, Loma Linda, Calif. Elongated metal members used for the internal fixation of fractured femurs. Serial No. 602,132, Mar. 11. Class 44.

American Air Filter Company, Inc., Louisville, Ky. Forced draft unit ventilators, forced draft unit heaters, etc. Serial No. 602,079, Mar. 11. Class 34.

American Brake Shoe Company, New York, N. Y. Buckets and parts therefor, apron feeder parts. Serial No. 617,476, Mar. 11. Class 23.

American Car and Foundry Company, New York, N. Y. Locomotives and structural parts thereof. Serial No. 581,633, Mar. 11. Class 23.

American Cyanamid Company, New York, N. Y. Fire retardants. Serial No. 614,329, Mar. 11. Class 6.

American Cyanamid Company, New York, N. Y. Synthetic fiber. Serial No. 616,069, Mar. 11. Class 1.

American Cyanamid Company, New York, N. Y. Synthetic fiber. Serial No. 616,072, Mar. 11. Class 1.

American Gas Furnace Co., Elizabeth, N. J. Metallurgical and heat treating equipment. Serial No. 575,318, Mar. 11. Class 34.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope and lines. Serial No. 615,432, Mar. 11. Class 7.

Amo-Gene: *See*—
Butler, Anna K.

Amole, Incorporated, Tipp City, Ohio. Hand cream, hand lotion, cleansing cream, etc. Serial No. 603,720, Mar. 11. Class 51.

Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad. Aromatic bitters. Serial No. 618,723, Mar. 11. Class 46.

Armour and Company, doing business under the trade style Jacob E. Decker & Sons, Chicago, Ill. Sausage. Serial No. 604,251, Mar. 11. Class 46.

Armstrong Cork Company, Lancaster, Pa. Glass dropper bottles. Serial No. 568,167, Mar. 11. Class 33.

Artistic Beauty Products Company, Los Angeles, Calif. Impregnated pads. Serial No. 593,855, Mar. 11. Class 6.

Atkins & Durbrow, Inc., New York, N. Y. Plantfood. Serial No. 609,429, Mar. 11. Class 10.

Audio Devices, Inc., New York, N. Y. Magnetic sound recording tape. Serial No. 590,641, Mar. 11. Class 21.

Autoline Oil Company, Baltimore, Md. Lubricating oils. Serial No. 614,078, Mar. 11. Class 15.

Automatic Industries, Inc., Kansas City, Mo. Hay rakes. Serial No. 570,534, Mar. 11. Class 23.

Bartmann & Bixer, Inc., New York, N. Y. Net window curtains. Serial No. 607,921, Mar. 11. Class 42.

Bartmann & Bixer, Inc., New York, N. Y. Window curtains. Serial No. 617,075, Mar. 11. Class 42.

Bausch & Lomb Optical Company, Rochester, N. Y. Lens grinding and polishing abrasive compounds. Serial No. 588,733, Mar. 11. Class 4.

Beaunit Mills, Inc., New York, N. Y. Fabrics. Serial No. 616,791, Mar. 11. Class 42.

Becton, Dickinson and Company, Rutherford, N. J. Charts. Serial No. 586,584, Mar. 11. Class 38.

Black Panther Tool Company, Philadelphia, Pa. Blocks with abrasive surface for sanding. Serial No. 615,677, Mar. 11. Class 4.

Blickman, S., Inc., Weehawken, N. J. Heated steam tables and food containers therefor. Serial No. 618,530, Mar. 11. Class 34.

Bodegas de Delicias, S. A., Ciudad Delicias, Mexico. Port wine. Serial No. 569,803, Mar. 11. Class 47.

Boubli, Charles, Paris, France. Prepared mustard. Serial No. 607,154, Mar. 11. Class 46.

Bowen & Company: *See*—
Bowen, William S.

Bowen, William S., doing business under the name of Bowen & Company, Westfield, N. J. Ground beef extender. Serial No. 614,747, Mar. 11. Class 46.

Braun, B., Melsungen, Hessen, Germany. Catgut for surgical use. Serial No. 600,466, Mar. 11. Class 44.

Bridgeport Moulded Products, Inc., Fairfield, Conn. Drinking glass coasters. Serial No. 584,314, Mar. 11. Class 2.

Briggs, John P., doing business as Clown Town, Lakewood, Ohio. Photographing of children. Serial No. 581,402, Mar. 11. Class 100.

Brodsky Bros., Providence, R. I. Baby carriages and strollers, etc. Serial No. 597,734, Mar. 11. Class 19.

Buffalo Evening News: *See*—
Buffalo Evening News, Inc.

Buffalo Evening News, Inc., Buffalo, N. Y., assignee of E. H. Butler, individually and as trustee under the last will and testament of E. H. Butler, deceased, doing business as Buffalo Evening News. Entertainment service. Serial No. 548,715, Mar. 11. Class 107.

Burton-Dixie Corporation, Chicago, Ill. Mattresses and box springs. Serial No. 600,020, Mar. 11. Class 32.

Butler, Anna K., doing business under the name Amo-Gene, Chicago, Ill. Dentifrices. Serial No. 592,190, Mar. 11. Class 51.

Butler, Edward H.: *See*—
Buffalo Evening News, Inc.

Butler's, Inc., Atlanta, Ga. Hosiery and slippers. Serial No. 608,056, Mar. 11. Class 39.

C R I Corporation, New York, N. Y. Rust-inhibiting germicide. Serial No. 616,758, Mar. 11. Class 6.

C & W Insecticide Co.: *See*—
Whitaker, E. Roy.

Cadillac Textiles Incorporated, Valley Falls, R. I. Textile fabrics. Serial No. 615,815, Mar. 11. Class 42.

Cahn, Bernard, Co., Inc., New York, N. Y. Wallets, purses and handbags. Serial No. 616,360, Mar. 11. Class 3.

Cahn, Bernard, Co., Inc., New York, N. Y. Wallets and purses. Serial No. 616,361, Mar. 11. Class 3.

Canadian International Paper Company, Montreal, Quebec, Canada. Wood pulp. Serial No. 597,063, Mar. 11. Class 1.

Carmac Coal Company, Chicago, Ill. Coal. Serial Nos. 607,116–17, Mar. 11. Class 1.

Cement Marketing Company, Limited, The, London, England. Portland cement. Serial No. 614,687, Mar. 11. Class 12.

Chipman's, Chas., Sons Co., Inc., New York, N. Y. Hosiery. Serial No. 614,489, Mar. 11. Class 39.

Church & Dwight Co., Inc., New York and Syracuse, N. Y. Detergent. Serial No. 607,579, Mar. 11. Class 52.

Clark, William, & Sons Limited, Upperland, Northern Ireland. Textile fabrics. Serial No. 612,730, Mar. 11. Class 42.

Clinton Foods Inc., Clinton, Iowa. Starch. Serial No. 594,831, Mar. 11. Class 6.

Clown Town: *See*—
Briggs, John P.

Cochran, Jacqueline, Inc., New York, N. Y. Perfume, cologne, skin lotion, etc. Serial No. 610,780, Mar. 11. Class 51.

Columbiana Boiler Company, The, assignee: *See*—
Oaks & Barrow, Inc.

Commerce Manufacturing Company, Inc., Commerce, Ga. Dungarees. Serial No. 616,365, Mar. 11. Class 39.

Consolidated Products Company, Danville, Ill. Poultry feed. Serial No. 618,844, Mar. 11. Class 46.

Controlled Oil Products Co.: *See*—
Fatout, Ray T.

Corn States Veterinary Supply Company, Omaha, Nebr. Animal protein factor and vitamin supplement. Serial No. 600,820, Mar. 11. Class 18.
Coro, Inc., New York, N. Y. Glue. Serial No. 614,754, Mar. 11. Class 5.
Coty, Inc., New York, N. Y. Body lotion. Serial No. 606,855, Mar. 11. Class 51.
Craft, Irene F., Ridgewood, N. J. Perfumes. Serial No. 590,649, Mar. 11. Class 51.
Craft, Irene F., Ridgewood, N. J. Perfumes. Serial No. 590,651, Mar. 11. Class 51.
Craftique, Inc., Mebane, N. C. Furniture. Serial No. 614,540, Mar. 11. Class 32.
Crocker, H. S., Co., Inc., doing business as Crocker-Union and California Artists, San Bruno, Calif. Christmas cards. Serial No. 616,545, Mar. 11. Class 38.
Crocker-Union and California Artists: *See*—
Crocker, H. S., Co., Inc.
Crown Togs Sportswear Co., New York, N. Y. Men's, boys' and children's outer garments. Serial No. 616,016, Mar. 11. Class 39.
Crundall, A. H., Proprietary Limited, Melbourne, Victoria, Australia. Refillable vaporizers. Serial No. 600,006, Mar. 11. Class 44.
Crysta Line Mfg. Co., Woodside, N. Y. Crystals for watches, clocks, and the like. Serial No. 559,582, Mar. 11. Class 33.
Cunningham, William A., doing business as The Pentaplastic Company, Allentown, Pa. Viscous composition. Serial No. 596,332, Mar. 11. Class 6.
Curtis, Helene, Industries, Inc., Chicago, Ill. Cold permanent hair waving solution, and hair dressing. Serial No. 599,817, Mar. 11. Class 51.
Curtis Jewelry Manufacturing Company, Inc., Providence, R. I. Jewelry clasps, bracelets, lockets, etc. Serial No. 613,630, Mar. 11. Class 28.
Daland Vitamin Co.: *See*—
Ryon, Judson D.
Danbury Rubber Company, Inc., The, Danbury, Conn. Cleaning material for removing wax and dirt. Serial No. 605,300, Mar. 11. Class 52.
Danbury Rubber Company, Inc., The, Danbury, Conn. Waxes. Serial No. 605,998, Mar. 11. Class 4.
Dan River Mills, Incorporated, Danville, Va. Sheets, sheeting, and pillow cases. Serial No. 615,163, Mar. 11. Class 42.
Dan River Mills, Incorporated, Danville, Va. Sheets, sheeting, and pillow cases. Serial No. 615,271, Mar. 11. Class 42.
Dan River Mills, Incorporated, Danville, Va. Cotton piece goods. Serial No. 615,272, Mar. 11. Class 42.
Davids Gloves, Inc., Springfield, Ohio. Work gloves. Serial No. 612,486, Mar. 11. Class 39.
Davis, C. L., doing business under the name and style Davis Coal Company, Williamsburg, Ky. Coal. Serial No. 605,200, Mar. 11. Class 1.
Davis Coal Company: *See*—
Davis, C. L.
Davis, W. A., Milling Company, High Point, N. C. Dog food. Serial No. 598,787, Mar. 11. Class 46.
Dayton Rubber Company, The, Dayton, Ohio. Cord. Serial No. 613,051, Mar. 11. Class 7.
Decker, Jacob E., & Sons: *See*—
Armour and Company.
Dick, A. B., Company, Niles, Ill. Stencil sheets. Serial No. 617,787, Mar. 11. Class 37.
Diversey Corporation, The, Chicago, Ill. Bottle washing compound. Serial No. 603,476, Mar. 11. Class 52.
Dixie Pine Products Company, Inc., Hattiesburg, Miss. Rosin. Serial No. 614,495, Mar. 11. Class 1.
Domore Chair Company, Inc., Elkhart, Ind. Office, household, and factory chairs. Serial No. 615,488, Mar. 11. Class 32.
Downingtown Manufacturing Comapny, Downingtown, Pa. Paper making machinery. Serial No. 572,731, Mar. 11. Class 23.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polish. Serial No. 615,166, Mar. 11. Class 4.
Eagle-Flagg Tanning Corporation, New York, N. Y. Leather. Serial No. 606,006, Mar. 11. Class 1.
Elbon Laboratories, Inc., Sparta, N. J. Laxatives. Serial No. 615,767, Mar. 11. Class 18.
Empire Pharmacal Co.: *See*—
Pfeiffer, S., Manufacturing Co.
Empire Sporting Goods Manufacturing Co. Inc., New York, N. Y. Sports emblems and sports letters. Serial No. 608,927, Mar. 11. Class 40.
Enterprise Aluminum Company, The, Massillon, Ohio. Aluminum cook-ware and gift-ware. Serial No. 604,843, Mar. 11. Class 13.
Ethicon Suture Laboratories Incorporated, New Brunswick, N. J. Sutures and ligatures. Serial No. 601,205, Mar. 11. Class 44.
Evans Case Co., North Attleboro, Mass. Cigarette lighters. Serial No. 608,929, Mar. 11. Class 8.
Eversharp, Inc., Chicago, Ill. Writing instruments. Serial No. 584,899, Mar. 11. Class 37.
F & F Laboratories, Inc., Chicago, Ill. Candy. Serial No. 606,763, Mar. 11. Class 46.
Fabrique d'Ebauches Eta S. A., Granges, Switzerland. Watches and parts of watches. Serial No. 596,272, Mar. 11. Class 27.
Fatout, Ray T., doing business as Controlled Oil Products Co., Indianapolis, Ind. Lubricating oils. Serial No. 616,420, Mar. 11. Class 15.
Federated Department Stores, Inc., Cincinnati, Ohio, doing business under the name Abraham & Straus, Brooklyn, N. Y. China dinner sets. Serial No. 610,053, Mar. 11. Class 30.
Fixtures Manufacturing Corp., Kansas City, Mo. Infants' and children's chairs. Serial No. 608,791, Mar. 11. Class 32.
Fliegelman, Israel, New York, N. Y. Fur skins. Serial No. 615,380, Mar. 11. Class 1.
Garten Table Pad Company, Inc., Philadelphia, Pa. Table pads. Serial No. 614,499, Mar. 11. Class 50.
General Aniline & Film Corporation, New York, N. Y. Chemical compounds, compositions and preparations. Serial No. 616,286, Mar. 11. Class 18.
General Motors Corporation, Detroit, Mich. Antifriction bearings and parts thereof. Serial No. 605,156, Mar. 11. Class 23.
General Vitamin Corporation, Washington, D. C. Vitamin capsules. Serial No. 616,423, Mar. 11. Class 18.
General Vitamin Corporation, Washington, D. C. Vitamin tablets. Serial No. 616,424, Mar. 11. Class 18.
Georgia-Pacific Plywood & Lumber Co., Augusta, Ga. Plywood. Serial No. 602,394, Mar. 11. Class 12.
Getzel Sales Company, New York, N. Y. Hosiery. Serial No. 599,940, Mar. 11. Class 39.
Gillette Safety Razor Company, Boston, Mass. Home permanent waving kits. Serial No. 615,215, Mar. 11. Class 44.
Givaudan-Delawanna, Inc., New York, N. Y. Phenolic organic chemicals. Serial No. 599,631, Mar. 11. Class 32.
Goetze, Albert F., Incorporated, Baltimore, Md. Scrapple. Serial No. 541,668, Mar. 11. Class 46.
Goldstein Gerson Co., New York, N. Y. Ring mountings. Serial No. 612,858, Mar. 11. Class 28.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Material in sheet form comprising a vulcanized blend of synthetic resin and synthetic rubber. Serial No. 610,363, Mar. 11. Class 1.
Graytogs, Inc., New York, N. Y. Fabrics. Serial No. 615,979, Mar. 11. Class 42.
Great Western Sugar Company, The, Denver, Colo. Refined beet sugar. Serial No. 569,621, Mar. 11. Class 46.
Greenberg, Louis, & Son, Inc., New York, N. Y. Harmonicas. Serial No. 610,555, Mar. 11. Class 36.
Grove Laboratories, Inc., The, St. Louis, Mo. Shampoo. Serial No. 615,317, Mar. 11. Class 52.
Grove Laboratories, Inc., The, St. Louis, Mo. Shampoo. Serial No. 615,636, Mar. 11. Class 52.
Guardite Corporation, assignee: *See*—
Guardite Corporation, The.
Guardite Corporation, The, Chicago, Ill., assignor to Guardite Corporation, Wilmington, Del. Large metal tanks. Serial No. 529,891, Mar. 11. Class 2.
Hampshire Manor: *See*—
Schwartz, Charles L.
Harris, Claire M., doing business under the name and style of Claire McCardell, New York, N. Y. Designing of fashions. Serial No. 614,202, Mar. 11. Class 100.
Hartman, Edward F., doing business under the name of The Edw. F. Hartman Co., Chicago, Ill. Medicated dressing and medicated antiseptic eye wash. Serial No. 587,328, Mar. 11. Class 18.
Hartman, Edw. F., Co., The: *See*—
Hartman, Edward F.
Heller, William, Incorporated, New York, N. Y. Piece goods. Serial No. 607,020, Mar. 11. Class 42.
Hercules Powder Company, Wilmington, Del. Detonating primers. Serial No. 615,775, Mar. 11. Class 9.
Holmes, Archibald, & Son, Philadelphia, Pa. Carpets and rugs. Serial Nos. 616,707–9, Mar. 11. Class 42.
Hotpoint Inc., Chicago, Ill. Electric refrigerating units. Serial No. 615,836, Mar. 11. Class 31.
Hubbs Corporation, Baltimore, Md. Gummed tape, cellulose tape, paste and glue. Serial No. 614,775, Mar. 11. Class 5.
Hudnut, Richard, New York, N. Y. Face powder. Serial No. 599,094, Mar. 11. Class 51.
Hudnut, Richard, New York, N. Y. Cosmetic kits. Serial No. 599,097, Mar. 11. Class 51.
Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa. Textile rugs and carpets. Serial No. 608,213, Mar. 11. Class 42.
Indiana Steel & Wire Company, Muncie, Ind. Iron and steel wire for use in overhead electric transmission lines. Serial No. 598,853, Mar. 11. Class 21.
Industry Publications, Inc., New York, N. Y. Monthly publications. Serial No. 618,295, Mar. 11. Class 38.
Institutional Products Corporation, New York, N. Y. Razor blades. Serial No. 614,349, Mar. 11. Class 23.
Irving-Cloud Publishing Company, The, Chicago, Ill. Periodical publication section. Serial No. 618,431, Mar. 11. Class 38.
Italian Swiss Colony, San Francisco, Calif. Wines. Serial No. 552,463, Mar. 11. Class 47.
Jacobs, Melvin H., Chicago, Ill. Steak knives. Serial No. 617,444, Mar. 11. Class 23.

Janalyn Laboratories, Inc., The, Worcester, Mass. Deodorant and air freshener. Serial No. 603,193, Mar. 11. Class 6.
Joyce, Inc., Pasadena, Calif. Men's shoes. Serial No. 610,446, Mar. 11. Class 39.
Juliana Lingerie, Inc., New York, N. Y. Women's and misses' lingerie. Serial No. 615,455, Mar. 11. Class 39.
Justi, H. D., & Son, Inc., Philadelphia, Pa. Artificial teeth. Serial Nos. 602,203–4, Mar. 11. Class 44.
Katz, Joseph A., Company, New York, N. Y. Ladies' hosiery. Serial No. 526,243, Mar. 11. Class 39.
Kent, Roger, Inc., New York, N. Y., Philadelphia, Pa., New Haven, Conn., and Cambridge and Boston, Mass. Men's clothing. Serial No. 604,305, Mar. 11. Class 39.
Keystone Knitting Mills (1928) Limited, Elstree, England. Stockings and socks. Serial No. 608,550, Mar. 11. Class 39.
King, Maxwell D., doing business as Liftainer Company, Toledo, Ohio. Shipping containers. Serial No. 606,614, Mar. 11. Class 2.
Lander Co., Inc., The, New York, N. Y. Perfumes, toilet waters, powder sachets, etc. Serial No. 608,210, Mar. 11. Class 51.
Laser, Emily M., Palm Springs, Calif. Portable massaging device. Serial No. 591,787, Mar. 11. Class 44.
Lashley, Sara H., Atlantic City, N. J. Finger rings. Serial No. 613,923, Mar. 11. Class 28.
Lasky, Thomas S., Kingston, Pa. Oil filters, oil filter cartridges. Serial No. 598,859, Mar. 11. Class 31.
Lavino, E. J., and Company, Philadelphia, Pa. Dry refractory cement. Serial No. 606,147, Mar. 11. Class 12.
Leonard, Royal, Inc., Glendale, Calif. Trouser leg protectors. Serial No. 615,986, Mar. 11. Class 39.
Levy-Anderson Co., Inc., Providence, R. I. Jewelry. Serial No. 611,480, Mar. 11. Class 28.
Liftainer Company: *See*—
King, Maxwell D.
Link-Belt Company, Chicago, Ill. Encased traveling pan conveyor type dryers and coolers. Serial Nos. 607,131–2, Mar. 11. Class 23.
Liquid Glass Corporation, New York, N. Y. Automobile polish. Serial No. 600,494, Mar. 11. Class 4.
Lord Baltimore Press, The, Baltimore, Md. Cartons. Serial No. 567,525, Mar. 11. Class 2.
Lord's Sportwear, Inc., New York, N. Y. Women's and misses' suits, coats, and dresses. Serial No. 575,216, Mar. 11. Class 39.
Lyle & Scott Ltd., Hawick, Scotland. Men's and women's sweaters and women's skirts. Serial No. 597,036, Mar. 11. Class 39.
Lyndonville Canning Company, Inc., Lyndonville, N. Y. Canned apple sauce. Serial No. 609,305, Mar. 11. Class 46.
M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Women's hosiery. Serial No. 609,489, Mar. 11. Class 39
Maish, Chas. A., Co., The, Cincinnati, Ohio. Crib mattresses. Serial No. 562,268, Mar. 11. Class 32.
Mason, Dudley L., doing business as Mason Products Company, Cincinnati, Ohio. Refrigerator deodorant. Serial No. 588,764, Mar. 11. Class 6.
Mason Products Company: *See*—
Mason, Dudley L.
Maternity Cosmetics, Inc., Rochester, N. Y. Skin creams, skin lotions, and personal deodorants, etc. Serial No. 601,805, Mar. 11. Class 51.
McCardell, Claire: *See*—
Harris, Claire M.
McLean Mfg. Co., Inc., Sussex, N. J. Sleeveless jackets embodying inflatable portions and functioning as life-preservers. Serial No. 586,539, Mar. 11. Class 22.
Mead Johnson & Company, Evansville, Ind. Dispensing closures for sterile liquid containers. Serial No. 608,798, Mar. 11. Class 44.
Miller, W. W., doing business as Sandcal Gardens, San Diego, Calif. Fresh tomatoes. Serial No. 618,895, Mar. 11. Class 46.
Moyer, Walter W., Company, Ephrata, Pa. Men's, women's and children's underwear. Serial No. 601,508, Mar. 11. Class 39.
Mueller, C. F., Company, Jersey City, N. J. Alimentary pastes. Serial No. 618,465, Mar. 11. Class 46.
Napa Valley Grape Products, Inc., New York, N. Y. Wines. Serial No. 553,972, Mar. 11. Class 47.
National Foam System, Inc., West Chester, Pa. Fire-extinguishing chemicals and compositions. Serial No. 615,991, Mar. 11. Class 6.
National Plastic Products Company, The, Odenton, Md. Thermoplastic injection molded luggage fittings. Serial No. 616,329, Mar. 11. Class 3.
National Products Co., Kansas City, Mo. Plastic dinnerware. Serial No. 616,238, Mar. 11. Class 2.
National Radiator Company, The, Johnstown, Pa. Coal fired, oil fired and gas fired boilers. Serial No. 575,283, Mar. 11. Class 34.
Nebraska Consolidated Mills Company, doing business as Alabama Flour Mills, Omaha, Nebr. Poultry mash and dairy and hog feeds. Serial No. 617,723, Mar. 11. Class 46.
Nelson Chemical Company, Detroit, Mich. Chemicals. Serial No. 616,298, Mar. 11. Class 6.
Northern Spruce Co. Ltd., Vancouver, British Columbia, Canada. Rough and dressed sawn lumber. Serial No. 610,756, Mar. 11. Class 12.
Northern Illinois Coal Corporation, Chicago, Ill. Serial No. 616,239, Mar. 11. Class 1.
Northwood Fur Farms, Cary, Ill. Mink pelts and live minks. Serial No. 589,464, Mar. 11. Class 1.
Nova Chemical Corporation, New York, N. Y. Dyes. Serial No. 597,693, Mar. 11. Class 6.
Novadel-Agene Corporation, Belleville, N. J. Preparing and supplying, at the locality of its use, reagent gas, etc. Serial No. 581,561, Mar. 11. Class 100.
Nutritional Research Associates, Inc., South Whitley, Ind. Food. Serial No. 619,400, Mar. 11. Class 46.
Oakley, Annie, Enterprises, Los Angeles, Calif. Shoulder strap bags. Serial No. 611,908, Mar. 11. Class 3.
Oaks & Barrow, Inc., assignor to The Columbiana Boiler Company, Columbiana, Ohio. Refillable valved metallic tanks. Serial No. 588,180, Mar. 11. Class 2.
Olin Industries, Inc., East Alton, Ill. Electric blasting caps. Serial No. 599,774, Mar. 11. Class 9.
Onyx Oil & Chemical Company, Jersey City, N. J. Chemical substance. Serial No. 616,117, Mar. 11. Class 6.
Paragon Electric Company, Two Rivers, Wis. Synchronous electric motor operated time control switch. Serial No. 607,761, Mar. 11. Class 26.
Paris Decorators Corp., New York, N. Y. Sofas, love seats, ottomans, etc. Serial No. 564,346, Mar. 11. Class 32.
Parke, Davis & Company, Detroit, Mich. Vitamin preparation. Serial No. 598,497, Mar. 11. Class 18.
Patek and Co., San Francisco, Calif. Preparation for increasing penetration and detergency action. Serial No. 615,993, Mar. 11. Class 6.
Pendergast, Raymond F., Chicago, Ill. Knife for paring human corns. Serial No. 608,286, Mar. 11. Class 44.
Penn Bag & Burlap Company, Pittsburgh, Pa. Burlap and cotton grain and feed storage bags. Serial No. 606,565, Mar. 11. Class 2.
Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Laundry detergents, strongly alkaline detergents, etc. Serial No. 560,044, Mar. 11. Class 52.
Pentaplastic Company, The. *See*—
Cunningham, William A.
Permanente Cement Company, Oakland, Calif. Plastering cement. Serial No. 587,592, Mar. 11. Class 12.
Pfeiffer, S., Manufacturing Co., doing business as Empire Pharmacal Co., St. Louis, Mo. Medicaments. Serial No. 615,850, Mar. 11. Class 18.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. Serial No. 616,123, Mar. 11. Class 18.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial Nos. 602,055–6, Mar. 11. Class 18.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medicinal preparation. Serial No. 611,970, Mar. 11. Class 18.
Pittsburgh Waterproof Company, Pittsburgh, Pa. Laundry ironer pads. Serial No. 620,230, Mar. 11. Class 24.
Plastic Film Products Corporation, Akron, Ohio. Plastic film receptacles. Serial Nos. 601,944–6, Mar. 11. Class 2.
Plastile Products, Inc., Chicago, Ill. Plastic tile. Serial No. 614,262, Mar. 11. Class 12.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Laundry washing machines. Serial No. 614,897, Mar. 11. Class 24.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Children's clothing. Serial No. 616,921, Mar. 11. Class 39.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Women's clothing. Serial No. 616,922, Mar. 11. Class 39.
Pullman-Standard Car Manufacturing Company, Chicago, Ill. Water storage tanks and housings therefor, boxes for holding batteries, etc. Serial No. 605,265, Mar. 11. Class 2.
Rainfair, Inc., Racine, Wis. Jacket and pants combination. Serial No. 617,057, Mar. 11. Class 39.
Rath Packing Company, The, Waterloo, Iowa. Ham, pork shoulder picnic, pork shoulder butt, etc. Serial No. 607,528, Mar. 11. Class 46.
Redlich, A. J., Company, Pittsburgh, Pa. Tables, and table tops. Serial No. 604,035, Mar. 11. Class 32.
Research Products Company, Kansas City, Mo. Diastatic malt supplement for bread. Serial No. 618,510, Mar. 11. Class 46.
Revlon Products Corporation, New York, N. Y. Cream shampoo. Serial No. 598,927, Mar. 11. Class 52.
Roper, Geo. D., Corporation, Rockford, Ill. Gas range ovens. Serial No. 592,338, Mar. 11. Class 34.
Ross, Will, Inc., Milwaukee, Wis. Cotton garments especially adapted for hospital use. Serial No. 613,782, Mar. 11. Class 44.
Roth, Chester H., Co., Inc., New York, N. Y. Men's, women's, boys' and girls' hosiery. Serial Nos. 606,952–5, Mar. 11. Class 39.
Ryon, Judson D., doing business under the name and style of Daland Vitamin Co., Wilmington, Del. Vitamin preparation. Serial No. 616,571, Mar. 11. Class 18.

S. F. Appliances, Limited, Ridgefield, N. J. Lanterns, lamps, cooking and heating stoves, etc. Serial No. 564,966, Mar. 11. Class 34.

S & S Industries, Inc., New York, N. Y. Spring clamps. Serial No. 587,974, Mar. 11. Class 13.

Sandcal Gardens: *See*—
Miller, W. W.

Schering Corporation, Bloomfield, N. J. Antibiotic. Serial No. 616,452, Mar. 11. Class 18.

Schering Corporation, Bloomfield, N. J. Hormone preparation. Serial No. 616,453, Mar. 11. Class 18.

Schoenhofen Edelweiss Company, Chicago, Ill. Beer and ale. Serial No. 575,602, Mar. 11. Class 48.

Schon, Bernhard, Potts Point, Sydney, New South Wales, Australia. Ladies' lingerie. Serial No. 597,234, Mar. 1. Class 39.

Schwartz, Charles L., doing business under the name of Hampshire Manor, Lyndeboro, N. H. Chocolate flavored popped pop-corn and butterscotch flavored popped pop-corn. Serial No. 613,653, Mar. 11. Class 46.

Schwartz, Morris, & Sons, Inc., New York, N. Y. Women's and misses' cloth coats. Serial No. 613,425, Mar. 11. Class 39.

Scott Paper Company, Chester, Pa. Paper napkins. Serial No. 614,727, Mar. 11. Class 37.

Scottish Towel Company Limited, The, Glasgow and Hillington, Glasgow, Scotland. Towels and towelling. Serial No. 607,144, Mar. 11. Class 42.

Sears, Roebuck and Co., Chicago, Ill. Mechanical phonographs, phonograph needles, disc record albums, etc. Serial No. 570,659, Mar. 11. Class 36.

Seaver Company: *See*—
Seline, S. A.

Seline, S. A., doing business under the trade name of Seaver Company, Omaha, Nebr. Rat repellent. Serial No. 600,451, Mar. 11. Class 6.

Seminole Coal Corporation, Chicago, Ill. Coal. Serial No. 616,248, Mar. 11. Class 1.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Antibiotic preparation. Serial No. 616,140, Mar. 11. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Hormone preparation. Serial No. 616,141, Mar. 11. Class 18.

Shellmold & Machine Co., Inc., New York, N. Y. Machines for forming refractory molds. Serial No. 610,927, Mar. 11. Class 23.

Silver Lane Pickle Company, The, East Hartford, Conn. Dill pickles. Serial No. 603,084, Mar. 11. Class 46.

Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Resilient enamel surface floor covering. Serial No. 615,579, Mar. 11. Class 20.

Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Hard surface floor covering. Serial No. 616,514, Mar. 11. Class 20.

Sloane, W. & J., New York, N. Y. Wood baskets, garment bags, shelf boxes, etc. Serial No. 582,057, Mar. 11. Class 2.

Smith, Audrey M., St. Louis, Mo. Trading stamps. Serial No. 617,733, Mar. 11. Class 38.

Smith, S., and Sons (England) Limited, London, England. Watches, clocks, watch and clock movements, and parts of watches and clocks. Serial No. 612,222, Mar. 11. Class 27.

Smoler, Boris, & Sons, Inc., Chicago, Ill. Misses' and women's dresses. Serial No. 615,861, Mar. 11. Class 39.

Smoler, Boris, & Sons, Inc., Chicago, Ill. Children's dresses. Serial No. 615,862, Mar. 11. Class 39.

Societe Anonyme, Bienaime, Paris, France. Perfumes, face creams, rouge. Serial No. 547,159, Mar. 11. Class 51.

Southern Lumber & Manufacturing Co., Ellijay, Ga. Pallets. Serial No. 613,531, Mar. 11. Class 50.

Southern Music Company, San Antonio, Tex. Guitars, mandolins, cornets, etc. Serial No. 616,735, Mar. 11. Class 36.

Standard Brands Incorporated, New York, N. Y. Tea. Serial No. 619,314, Mar. 11. Class 46.

Standard Electric Co., Inc., San Antonio, Tex. Oxide of lead. Serial No. 616,143, Mar. 11. Class 6.

Stevens & Pedley Limited, Nottingham, England. Men's, women's, children's and infants' wearing apparel. Serial No. 606,059, Mar. 11. Class 39.

Storm-Vulcan, Inc., Dallas, Tex. Crankshaft finishing machines and parts thereof. Serial No. 605,563, Mar. 11. Class 23.

Street, R. R., & Co., Inc., Chicago, Ill. Compound for removing stains from textile fabrics. Serial No. 528,528, Mar. 11. Class 52.

Suhr & Budelman, Inc., New York, N. Y. Lac or natural resin. Serial No. 605,693, Mar. 11. Class 1.

Sunlight Coal Company, Chicago, Ill. Coal. Serial No. 616,253, Mar. 11. Class 1.

Swank, Inc., Attleboro, Mass. Tie holders and key chains. Serial No. 598,968, Mar. 11. Class 28.

Swift & Company, Chicago, Ill. Stabilizers for ice cream. Serial No. 614,071, Mar. 11. Class 46.

Swizzels, Inc., Hoboken, N. J. Candy. Serial No. 605,063, Mar. 11. Class 46.

Syndicat Francais des Textiles Artificiels, Paris, France. Discontinuous fibres of rayon. Serial No. 605,064, Mar. 11. Class 1.

Syndicat Francais des Textiles Artificiels, Paris, France. Discontinuous fibres of rayon. Serial No. 605,068, Mar. 11. Class 1.

Syndicat Francais des Textiles Artificiels, Paris, France. Discontinuous fibres of rayon. Serial No. 605,072, Mar. 11. Class 1.

Table Rock Laboratories, Inc., Greenville, S. C. Preparation in capsule form for the treatment of hypertension, arteriosclerosis, angina pectoris, etc. Serial No. 619,421, Mar. 11. Class 18.

Tension Envelope Corporation, Kansas City, Mo. Mailing envelopes. Serial No. 566,193, Mar. 11. Class 37.

Texas Company, The, Dover, Del., and New York, N. Y. Lubricating greases. Serial Nos. 616,526–32, Mar. 11. Class 15.

Timely Clothes, Inc., Rochester, N. Y. Men's suits, topcoats, and sport coats. Serial No. 616,654, Mar. 11. Class 39.

Tribune Company, Chicago, Ill. Series of cartoons. Serial No. 618,014, Mar. 11. Class 38.

Trico Fuse Mfg. Co., Milwaukee, Wis. Fuse plugs. Serial No. 616,612, Mar. 11. Class 21.

Tyler Fixture Corporation, Niles, Mich. Refrigerated display cases. Serial No. 583,828, Mar. 11. Class 31.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

United States Rubber Company, New York, N. Y. Chemical blowing agent. Serial No. 615,865, Mar. 11. Class 6.

Van Waters & Rogers, Inc., Seattle, Wash. Chemicals. Serial No. 617,132, Mar. 11. Class 6.

Villa Park Orchards Association, The, Orange, Calif. Fresh citrus fruits. Serial No. 577,241, Mar. 11. Class 46.

Visking Corporation, The, Chicago, Ill. Tubings, casings, and bags. Serial No. 587,135, Mar. 11. Class 2.

Wakefield Coffee Co.: *See*—
Wakefield Coffee Co. of California.

Wakefield Coffee Co. of California, doing business under the name of Wakefield Coffee Co., Glendale, Calif. Coffee. Serial No. 614,640, Mar. 11. Class 46.

Weisel & Co.: *See*—
Weisel & Co., Inc.

Weisel & Co., Inc., doing business under the name Weisel & Co., Milwaukee, Wis. Liver and bacon sausage, braunschweiger, etc. Serial No. 605,621, Mar. 11. Class 46.

West Disinfecting Company, Long Island City, N. Y. Dispensers for vending soap, cream, etc. Serial No. 611,822, Mar. 11. Class 23.

Western Tablet & Stationery Corporation, Dayton, Ohio. Papeteries. Serial No. 526,090, Mar. 11. Class 37.

Weston Dodson & Company Incorporated, Bethlehem, Pa. Coal. Serial No. 602,984, Mar. 11. Class 1.

West Virginia Pulp and Paper Company, New York, N. Y. Tall oil. Serial No. 599,136, Mar. 11. Class 1.

Whitaker, E. Roy, doing business as C & W Insecticide Co., Monroe, La. Ant and roach powder. Serial No. 612,840, Mar. 11. Class 6.

Whitbread & Company Limited, London, England. Ale and stout. Serial No. 609,616, Mar. 11. Class 48.

Whitehead Brothers Company, New York, N. Y. Parting compounds. Serial No. 608,261, Mar. 11. Class 1.

Wilrick, Inc., New York, N. Y. Nonalcoholic maltless soft drinks and concentrates. Serial No. 614,026, Mar. 11. Class 45.

Womrath Bookshops and Libraries, Inc., New York, N. Y. Lending of books and publications. Serial No. 583,224, Mar. 11. Class 107.

Wood Conversion Company, St. Paul, Minn. Metal clips. Serial No. 613,660, Mar. 11. Class 13.

Woolworth, F. W., Co., New York, N. Y. Men's, women's, boys', and girls' dungarees and jeans. Serial No. 616,615, Mar. 11. Class 39.

Wyeth Incorporated, Philadelphia, Pa. Medicinal pellet implanter. Serial No. 615,470, Mar. 11. Class 44.

Young Radiator Company, Racine, Wis. Heat exchange devices. Serial No. 579,065, Mar. 11. Class 34.

LIST OF REGISTRANTS OF TRADE-MARKS

Acme Visible Records, Inc., Chicago, Ill. Visible record cards, index cards and dividers and signals for card indexes. 555,860, Mar. 11; Serial No. 587,455, published Nov. 27, 1951. Class 37.

Aldens, Inc., Chicago, Ill. Rafter framing squares, try squares, and all squares, etc. 556,069, Mar. 11; Serial No. 613,697, published Nov. 20, 1951. Class 26.

Allied Chemical & Dye Corporation, New York, N. Y. Substantially colorless fluorescent synthetic organic chemicals. 556,049, Mar. 11; Serial No. 612,722, published Dec. 18, 1951. Class 6.

Alling & Cory Company, The, Rochester, N. Y. Bond paper. 555,959, Mar. 11; Serial No. 607,918, published Dec. 4, 1951. Class 37.

Almaden-Madrone Vineyards: *See*—
Madrone Vineyards.

Alongi, John R., Du Quoin, Ill. Shirts. 555,898, Mar. 11; Serial No. 598,288, published Dec. 11, 1951. Class 39.

American Boy Aviators: *See*—
Ferguson, James H.

Amsterdam Textiles, Inc., Amsterdam, N. Y. Textile rugs and runners. 556,144, Mar. 11; Serial No. 615,519. Class 42.

Anderson, Belle, Chicago, Ill. Memorandum pads. 555,873, Mar. 11; Serial No. 591,604, published Dec. 4, 1951. Class 37.

Anderson, David & John, Limited, Bridgeton, Glasgow, Scotland. Cloth in the piece. 555,955, Mar. 11; Serial No. 607,535, published Dec. 25, 1951. Class 42.

Arakelian, K., Inc., doing business as Mission Bell Wineries and Mission Wineries, Madera, and as Mission Wineries, Escalon, Calif. Wines and champagnes. 555,961, Mar. 11; Serial No. 607,975, published Oct. 30, 1951. Class 47.

Arkwright Incorporated, assignee: *See*—
Arkwright Merchandising Corporation.

Arkwright Merchandising Corporation, assignor to Arkwright Incorporated, New York, N. Y. Kitchen and housewares, base metal shoe racks, etc. 555,826, Mar. 11; Serial No. 571,778, published Dec. 25, 1951. Class 13.

Atlantic Steel Company, Atlanta, Ga. Screw pin shackles. 555,901, Mar. 11; Serial No. 598,825, published Dec. 18, 1951. Class 13.

Atlas Paint & Varnish Co., Inc., New York, N. Y. Exterior and interior ready mixed paints, enamels, and paint or similar type primers, etc. 556,111, Mar. 11; Serial No. 561,607. Class 16.

Audio-Tone Oscillator Company, The: *See*—
Dresser, Willis R.

August Wagner Breweries, Inc., Columbus, Ohio. Beer. 555,786, Mar. 11; Serial No. 527,803, published Dec. 11, 1951. Class 48.

AutoBar Corporation, New York, N. Y. Measuring liquid dispensers. 555,832, Mar. 11; Serial No. 575,816, published Nov. 20, 1951. Class 26.

Ball Company, The, Chicago, Ill. Watches, watch movements, and parts of watches. 556,007, Mar. 11; Serial No. 610,608, published Nov. 13, 1951. Class 27.

Barr, G., and Company, Chicago, Ill. Hand lotions. 555,891, Mar. 11; Serial No. 595,935, published Nov. 6, 1951. Class 51.

Bates Manufacturing Company, Lewiston, Maine. Cotton piece goods. 86,025, renewed Apr. 9, 1952. O. G. Mar. 11. Class 42.

Beau-Bra Foundations, Inc., Jersey City, N. J. Brassières. 556,065, Mar. 11; Serial No. 613,554, published Dec. 18, 1951. Class 39.

Bell, Arthur, & Sons Ltd., Perth, Scotland. Scotch whisky. 555,839, Mar. 11; Serial No. 578,675, published Nov. 13, 1951. Class 49.

Bellows & Company, Inc., New York, N. Y. Whiskey. 555,973, Mar. 11; Serial No. 608,808, published Oct. 30, 1951. Class 49.

Bellows & Company, Inc., New York, N. Y. Whiskey. 555,974, Mar. 11; Serial No. 608,812, published Oct. 30, 1951. Class 49.

Benioff, David, Brothers, San Francisco, Calif. Women's fur garments. 555,910, Mar. 11; Serial No. 600,252, published Dec. 11, 1951. Class 39.

Bermo Industries, Inc., Minneapolis, Minn. Automobile ornaments. 555,954, Mar. 11; Serial No. 607,480, published Nov. 6, 1951. Class 50.

Bernstein, J., & Son, New York, N. Y. Corduroy fabrics. 555,884, Mar. 11; Serial No. 593,526, published Mar. 13, 1951. Class 42.

Bestform Foundations, Inc., New York, N. Y. Girdles. 556,058, Mar. 11; Serial No. 613,289, published Dec. 18, 1951. Class 39.

Birmingham Small Arms Company Limited, The, Birmingham, England. Lubricating oils and greases. 555,912, Mar. 11; Serial No. 600,760, published Nov. 6, 1951. Class 15.

Block, Sydney J., assignee: *See*—
Schilling, C., Company.

Bosch Brewing Company, Houghton, Mich. Beer. 555,820, Mar. 11; Serial No. 567,181, published Nov. 13, 1951. Class 48.

Boyme and Sherman, Dayton, Ohio. Weekly periodical publication. 556,025, Mar. 11; Serial No. 611,597, published Dec. 25, 1951. Class 38.

Brand of Texas, Inc., Laredo, Tex. Men's suits and jackets. 556,031, Mar. 11; Serial No. 611,681, published Dec. 11, 1951. Class 39.

Breck, John H., Inc., Springfield, Mass. Preparations for the treatment of the hair and scalp. 555,851, Mar. 11; Serial No. 585,011, published Nov. 6, 1951. Class 51.

Brooks, Betty, Co., Huntington Park, Calif. Women's and childrens' shorts, slacks, blouses, etc. 555,983, Mar. 11; Serial No. 609,162, published Dec. 18, 1951. Class 39.

Builders Iron Foundry, Providence, R. I. Apparatus for continuously and automatically totalizing the weight of material. 555,963, Mar. 11; Serial No. 608,145, published Nov. 20, 1951. Class 26.

Bumstead, Dale, Phoenix, to Tal'-Wi-Wi Ranches, Peoria, Ariz. Fresh deciduous fruits, fresh citrus fruits, etc. 292,224, renewed Mar. 8, 1952. O. G. Mar. 11. Class 46.

Burcham, Gouley, Company: *See*—
Burcham, Gouley N.

Burcham, Gouley N., doing business as Gouley Burcham Company, Los Angeles, Calif. Frozen fresh vegetables. 556,047, Mar. 11; Serial No. 612,650, published Dec. 18, 1951. Class 46.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics. 556,080, Mar. 11; Serial No. 616,410, published Dec. 25, 1951. Class 42.

Burlington Soap Company, Burlington, Iowa. Bluing compound-water softener. 556,076, Mar. 11; Serial No. 614,538, published Dec. 18, 1951. Class 6.

Burnham, Robert J., Inc., New York, N. Y. Fountain pens. 555,945, Mar. 11; Serial No. 606,410, published Dec. 11, 1951. Class 37.

Burton Brothers & Co. Inc., New York, N. Y. Cotton piece goods and mixtures of cotton and silk piece goods. 290,601, renewed Jan. 12, 1952. O. G. Mar. 11. Class 42.

Butcher Polish Company, The, Boston, Mass. Paste and liquid waxes, and self-polishing wax. 555,895, Mar. 11; Serial No. 598,001, published Nov. 27, 1951. Class 4.

California Sanitary Canning Co., Los Angeles, by Masterpiece Foods, Inc., Santa Maria, Calif. Canned tomatoes. 120,832, Mar. 12, 1918. Republished Mar. 11. Class 46.

Calvert Distilling Co., The, New York, N. Y. Alcoholic beverages. 555,936, Mar. 11; Serial No. 604,763, published Nov. 27, 1951. Class 49.

Campbell Chain Company, York, Pa. Tire chains. 556,077, Mar. 11; Serial No. 614,649, published Dec. 18, 1951. Class 13.

Carmelle, Inc., Burbank, Calif. Writing paper, note paper, correspondence and mailing envelopes. 555,962, Mar. 11; Serial No. 607,981, published Dec. 11, 1951. Class 37.

Carufel, L. H., Co., Bismarck, N. Dak. Multi-purpose garden hoe. 556,136, Mar. 11; Serial No. 606,751. Class 23.

Casey, Dee S., Tampa, Fla. Painting individual names on articles of clothing. 556,147, Mar. 11; Serial No. 597,510. Class 106.

Catalina, Inc., Los Angeles, Calif. Bathing suits. 555,844, Mar. 11; Serial No. 581,863, published Nov. 27, 1951. Class 39.

Caulk, L. D., Company, The, Milford, Del. Dental impression trays. 556,015, Mar. 11; Serial No. 61,056, published Nov. 20, 1951. Class 44.

Cecil Corporation, Chicago, Ill. Shoe laces. 555,805, Mar. 11; Serial No. 558,692, published Dec. 18, 1951. Class 40.

Cement Gun Company, Allentown, Pa. Structural contracting services. 556,090, Mar. 11; Serial No. 585,215, published Dec. 18, 1951. Class 103.

Central Bottled Gas Co., Inc., Salem, Ill. Compressed combustible gas. 556,129, Mar. 11; Serial No. 600,030. Class 6.

Central Ohio Paper Company, The, Columbus, Ohio. Printing paper; writing paper, box and book cover paper, etc. 556,045, Mar. 11; Serial No. 612,442, published Dec. 25, 1951. Class 37.

Champion Dry Coaster Co.: *See*—
Champion, George D.

Champion, George D., doing business as Champion Dry Coaster Co., Cincinnati, Ohio. Coasters in the nature of blotter tablets. 555,976, Mar. 11; Serial No. 609,026, published Dec. 11, 1951. Class 37.

Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Chemicals and chemical preparations. 555,877, Mar. 11; Serial No. 592,546, published Nov. 13, 1951. Class 6.

Chesbro Music Co., Idaho Falls, Idaho. Clarinets, saxophones, baritones, etc. 292,058, renewed Mar. 1, 1952. O. G. Mar. 11. Class 36.

Chesmore Seed Co., St. Joseph, Mo. Lawn, garden, and farm seed. 556,012–13, Mar. 11; Serial Nos. 610,832–3, published Nov. 20, 1951. Class 1.

Chicago and North Western Railway Company, Chicago, Ill. Railway freight and passenger transportation services. 556,146, Mar. 11; Serial No. 528,051. Class 105.

Chipman Chemical Company, Inc.: *See*—
Chipman Chemical Engineering Co., Inc.

Chipman Chemical Engineering Co., Inc., by change of name to Chipman Chemical Company, Inc., to Chipman Chemical Company, Inc., Bound Brook, N. J. Insecticide. 293,920, renewed May 10, 1952. O. G. Mar. 11. Class 6.

Christian Mills, The: *See*—
Van Dusen Harrington Co.

Cleveland Impact Recorder, Inc., Cleveland, Ohio. Instruments for recording the force of an impact. 555,865, Mar. 11; Serial No. 588,740, published Nov. 20, 1951. Class 26.

Clinton Foods Inc., Clinton, Iowa. Laundry starch. 555,882, Mar. 11; Serial No. 593,109, published Dec. 18, 1951. Class 6.

Clorox Chemical Co., Oakland, Calif. Liquid preparation for general household cleaning purposes. 290,449, renewed Jan. 5, 1952. O. G. Mar. 11. Class 52.

Clover Farm Stores Corporation, Cleveland, Ohio. Non-alcoholic, noncereal, maltless carbonated beverages. 555,802, Mar. 11; Serial No. 553,076, published Nov. 6, 1951. Class 45.

Cluett, Peabody & Co., Inc., Troy, N. Y. Outer shirts. 555,854, Mar. 11; Serial No. 585,744, published Nov. 27, 1951. Class 39.

Cocilana, Inc., Brooklyn, N. Y. Candy. 556,121, Mar. 11; Serial No. 590,488. Class 46.

Cohen, Isidor H.: *See*—
Mandel & Cohen.

Cointreau Corporation, Pennington, N. J. Apricot liqueur, blackberry liqueur, peppermint liqueur, etc. 555,801, Mar. 11; Serial No. 552,039, published Nov. 13, 1951. Class 49.

Collins, Vern, Salem, Oreg. Lead and brass stubs. 555,934, Mar. 11; Serial No. 604,567, published Dec. 25, 1951. Class 13.

Columbian Rope Company, Auburn, N. Y. Rope. 556,050, Mar. 11; Serial No. 612,731, published Dec. 18, 1951. Class 7.

Commercial Solvents Corporation, New York, N. Y. Alcoholic solvents. 555,852, Mar. 11; Serial No. 585,431, published Aug. 8, 1950. Class 6.

Coppock, E. S. C., San Antonio, Tex. Publication. 556,043, Mar. 11; Serial No. 612,387, published Dec. 25, 1951. Class 38.

Cormay, Walter J., Waltham, Mass. Hand appliance for mounting and demounting automobile wheels. 556,113, Mar. 11; Serial No. 564,192. Class 23.

Corona Corset Corp., New York, N. Y. Ladies' and misses' brassières, corsets, corselettes, etc. 556,038, Mar. 11; Serial No. 612,156, published Dec. 18, 1951. Class 39.

Cotter, R. E., Company, San Francisco, Calif. Canned fruits and canned vegetables. 555,815, Mar. 11; Serial No. 563,844, published Nov. 20, 1951. Class 46.

Countess Mara, Inc., New York, N. Y. Men's neckties. 555,849, Mar. 11; Serial No. 584,573, published Sept. 26, 1950. Class 39.

Crescent Corset Company, Inc., Cortland, N. Y. Ladies' foundation garments. 556,063, Mar. 11; Serial No. 613,502, published Dec. 18, 1951. Class 39.

Cripps Mens Wear, Inc., New York, N. Y. Men's and boys' negligee shirts, neckties, sport coats, etc. 555,987, Mar. 11; Serial No. 609,398, published Dec. 11, 1951. Class 39.

Crown Willamette Paper Company: *See*—
Crown Zellerbach Corporation.

Crown Zellerbach Corporation, also doing business as Crown Willamette Paper Company, San Francisco, Calif. Wrapping paper. 555,784, Mar. 11; Serial No. 527,187, published Nov. 13, 1951. Class 37.

Crown Zellerbach Corporation, San Francisco, Calif. Toilet tissue. 556,005–6, Mar. 11; Serial Nos. 610,511–12, published Nov. 13, 1951. Class 37.

Curtis, Calvin: *See*—
Limbach, Curtis A.

Dale Dance Studios: *See*—
Dale Dance Studios, Inc.

Dale Dance Studios, Inc., New York, N. Y., assignee of Dale Dance Studios. Giving dance instructions. 556,087, Mar. 11; Serial No. 555,059, published Dec. 18, 1951. Class 107.

De Laval Separator Company, The, New York, N. Y. Centrifuges. 556,102, Mar. 11; Serial No. 554,303. Class 23.

De Markoff, Alexandra, Sales Corporation, New York, N. Y. Cosmetic oils. 555,928, Mar. 11; Serial No. 603,625, published Nov. 6, 1951. Class 51.

Di Giorgio Fruit Corporation, San Francisco, Calif. Wines. 555,867, Mar. 11; Serial No. 589,078, published Dec. 11, 1951. Class 47.

Dinneen, Edward V., Chicago, Ill. Partially printed data card. 555,950, Mar. 11; Serial No. 606,971, published Nov. 27, 1951. Class 37.

Dione Associates, Hollywood, Calif. Medicated foot cream. 555,984, Mar. 11; Serial No. 609,169, published Nov. 6, 1951. Class 18.

Di Santo & Co.: *See*—
Di Santo, Joseph.

Di Santo, Joseph, doing business as Di Santo & Co., Duluth, Minn. Fresh artichokes, bread, cakes, etc. 288,187, renewed Oct. 20, 1951. O. G. Mar. 11. Class 46.

Dishmaster Corporation, Pontiac, Mich. Fountain type dishwashing brushes. 555,937, Mar. 11; Serial No. 604,774, published Dec. 4, 1951. Class 29.

Douglas Chemical and Supply Company, Kansas City, Mo. Economic poisons. 555,888–9, Mar. 11; Serial Nos. 595,125–6, published Nov. 13, 1951. Class 6.

Drac Manufacturing Co., New Blaine, Ark. Insecticides. 556,052, Mar. 11; Serial No. 612,095, published Dec. 18, 1951. Class 6.

Draper Brothers Inc., Frederica, Del. Canned vegetables. 556,001, Mar. 11; Serial No. 610,203, published Dec. 11, 1951. Class 46.

Dreier, Thomas, St. Petersburg, Fla. Monthly magazine. 556,034, Mar. 11; Serial No. 612,007, published Dec. 11, 1951. Class 38.

Dresser Industries, Inc., Dallas, Tex. Packings and gaskets. 556,039, Mar. 11; Serial No. 612,314, published Dec. 25, 1951. Class 35.

Dresser, Willis R., doing business as The Audio-Tone Oscillator Company, Bridgeport, Conn. Sound pressure recording instruments, audio-frequency curve tracing instruments, etc. 555,842, Mar. 11; Serial No. 580,290, published Nov. 20, 1951. Class 26.

Durham Hosiery Mills: *See*—
Lehigh Silk Hosiery Mills, Inc.

Eagle Pencil Company, New York, N. Y. Wood encased lead pencils. 555,800, Mar. 11; Serial No. 551,249, published Dec. 25, 1951. Class 37.

Economy Tablet & Paper Co., Chicago, Ill. Partially printed paper bands. 555,868, Mar. 11; Serial No. 589,406, published Nov. 13, 1951. Class 37.

Eland, S. S., doing business under the style The Quench Company; also under the style Quench Bottling Co., or Quench-Nesbitt Bottling Co., Seattle, Wash. Carbonated citrus-flavored soft drink. 555,788–9, Mar. 11; Serial Nos. 535,140–1, published Oct. 30, 1951. Class 45.

El-De Sales Company: *See*—
Owens Osborne Hosiery Mills, Inc.

Electric Steel Foundry, Portland, Oreg. Non-electric cable fittings. 556,040, Mar. 11; Serial No. 612,317, published Dec. 25, 1951. Class 13.

Elgin National Watch Company, Elgin, Ill. Watch movements. 82,972, Aug. 8, 1911. Republished Mar. 11. Class 27.

Elias, Sam, Inc., New York, N. Y. Ladies' wearing apparel. 555,951, Mar. 11; Serial No. 607,009, published Dec. 18, 1951. Class 39.

Elliott, B. K., Company, Pittsburgh, Pa. Drawing paper. 555,872, Mar. 11; Serial No. 591,464, published Dec. 4, 1951. Class 37.

Ely & Walker Dry Goods Company, St. Louis, Mo. Men's and boys' dress and work shirts. 555,850, Mar. 11; Serial No. 584,717, published Nov. 27, 1951. Class 39.

Emporium, The: *See*—
Emporium Capwell Company, The.

Emporium Capwell Company, The, doing business as The Emporium, San Francisco, Calif. Fabric anklets, aprons, infants' bands, etc. 555,858, Mar. 11; Serial No. 586,743, published Nov. 27, 1951. Class 39.

Ennis Tag & Salesbook Company, Ennis, Tex. Various paper office supplies and various articles of stationery. 555,933, Mar. 11; Serial No. 604,472, published Dec. 4, 1951. Class 37.

Ensign-Bickford Co., The, Simsbury, Conn. Synthetic yarns. 556,048, Mar. 11; Serial No. 612,652, published Dec. 18, 1951. Class 43.

Eureka Vacuum Cleaner Company, Detroit, Mich., to Eureka Williams Corporation, Bloomington, Ill. Vacuum cleaner dust receptacles. 291,887, renewed Feb. 23, 1952. O. G. Mar. 11. Class 2.

Eureka Williams Corporation: *See*—
Eureka Vacuum Cleaner Company.

Evans Case Co., North Attleboro, Mass. Cigarette cases and pyrophoric cigarette lighters and combination cigarette cases and pyrophoric cigarette lighters. 556,122, Mar. 11; Serial No. 591,983. Class 8.

Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Colored pencils. 556,044, Mar. 11; Serial No. 612,391, published Dec. 25, 1951. Class 37.

Fables Publishing Co., Inc., New York, N. Y. Magazine and a cartoon strip. 556,060, Mar. 11; Serial No. 613,324, published Dec. 11, 1951. Class 38.

Fairbanks, Morse & Co., Chicago, Ill. Generators, motors, domestic lighting plants, etc. 300,649, Jan. 31, 1933. Republished Mar. 11. Class 21.

Fairfacts Company, Inc., The, New York, N. Y. Bathroom accessories. 293,152, renewed Apr. 12, 1952. O. G. Mar. 11. Class 13.

Farrington Texol Corporation, Walpole, Mass. Fabrics. 556,140, Mar. 11; Serial No. 609,544. Class 42.

Fee & Mason Mfg. Co., Inc., Manasquan, N. J. Pipe hangers, pipe supports and accessories therefor. 555,883, Mar. 11; Serial No. 593,269, published Dec. 18, 1951. Class 13.

Ferguson, James H., doing business under the name of American Boy Aviators, Portland, Oreg. Felt insignia. 556,095, Mar. 11; Serial No. 500,799. Class 50.

Ferris & Ferris, doing business under the name and style of The Soovain Co., San Diego, Calif. Medicinal preparation. 556,016, Mar. 11; Serial No. 611,083, published Nov. 6, 1951. Class 18.

Ferry-Morse Seed Co., Detroit, Mich. Seeds. 556,117, Mar. 11; Serial No. 579,921. Class 1.

Finch, Joseph S., and Company, doing business as The Sam Thompson Pure Rye Distilling Co., New York, N. Y. Whiskey. 556,000, Mar. 11; Serial No. 610,125, published Nov. 27, 1951. Class 49.

Fisher, Frederick D., New York, N. Y. Photographic print mounts. 555,896, Mar. 11; Serial No. 598,009, published Dec. 4, 1951. Class 37.

Flex-O-Glass, Inc., Chicago, Ill. Netting and screening materials. 556,079, Mar. 11; Serial No. 615,377, published Dec. 25, 1951. Class 13.

Flintkote Company, The: *See*—
Hawaiian Cane Products, Limited.

Food Fair Stores, Inc., Philadelphia, Pa. Food flavoring extracts. 555,816, Mar. 11; Serial No. 565,329, published Dec. 18, 1951. Class 46.

Food Fair Stores, Inc., Philadelphia, Pa. Canned fruits and vegetables; canned orange, grapefruit, and tomato juices; seafood, etc. 555,817, Mar. 11; Serial No. 565,330, published Dec. 25, 1951. Class 46.

Formica Company, The, Cincinnati, Ohio. Pulley wheels. 556,143, Mar. 11; Serial No. 613,809. Class 23.

Fort Howard Paper Company, Green Bay, Wis. Paper towels. 555,792, Mar. 11; Serial No. 543,162, published Dec. 11, 1951. Class 37.

Fort Howard Paper Company, Green Bay, Wis. Toilet paper. 555,797, Mar. 11; Serial No. 546,215, published Nov. 27, 1951. Class 37.

Foster-Hochberg Manufacturing Company, Inc., Seattle, Wash. Women's and girls' wearing apparel. 556,023, Mar. 11; Serial No. 611,515, published Dec. 18, 1951. Class 39.

Framar Mfg. Co., The, New York and Brooklyn, N. Y. Ball point ink pencils. 555,874, Mar. 11; Serial No. 591,923, published Nov. 13, 1951. Class 37.

Funk, Guy T., Winston-Salem, N. C. Liniment. 556,014, Mar. 11; Serial No. 610,899, published Nov. 6, 1951. Class 18.

G. & L. Manufacturing Co., Inc., Boston, Mass. Dresses. 556,070, Mar. 11; Serial No. 613,707, published Dec. 18, 1951. Class 39.

Gallagher & Burton, Inc., Bristol, Pa. Alcoholic beverage. 555,977, Mar. 11; Serial No. 609,034, published Oct. 30, 1951. Class 49.

Gallowhur Chemical Corporation, New York, N. Y. Chemical for use as a dyestuff assistant. 556,057, Mar. 11; Serial No. 613,222, published Dec. 18, 1951. Class 6.

Garden Gate Corporation, The, Seattle, Wash. Frozen products. 555,885, Mar. 11; Serial No. 593,535, published Nov. 20, 1951. Class 46.

Gemsco, Inc., New York, N. Y. Ball-pointed ink tubes. 555,960, Mar. 11; Serial No. 607,950, published Dec. 11, 1951. Class 37.

General Aniline & Film Corporation, New York and Binghamton, N. Y. Chemicals and preparations thereof. 555,869, Mar. 11; Serial No. 589,717, published Nov. 13, 1951. Class 6.

General Dyestuff Corporation, New York, N. Y. Washing and scouring agent. 291,215, Feb. 2, 1932. Republished Mar. 11. Class 52.

General Sportwear Co., Inc., Ellenville, N. Y. Men's trousers, knickers, breeches, etc. 556,112, Mar. 11; Serial No. 563,782. Class 39.

Giammalvo, James J., Hackettstown, N. J. Cheese. 555,812, Mar. 11; Serial No. 561,233, published Dec. 18, 1951. Class 46.

Girl Scouts of the United States of America, New York, N. Y. Toilet preparations. 556,008, Mar. 11; Serial No. 610,682, published Nov. 6, 1951. Class 51.

Givaudan-Delawanna, Inc., New York, N. Y. Perfume bases and perfumes. 555,904, Mar. 11; Serial No. 599,632, published Nov. 6, 1951. Class 51.

Glo-an Products, Inc., West Caldwell, N. J. Liquid hair straightener and a liquid hair rinse lotion. 556,026, Mar. 11; Serial No. 611,606, published Nov. 13, 1951. Class 51.

Goldstein Millinery Company, Chicago, Ill. Ladies', misses', and children's hats. 555,864, Mar. 11; Serial No. 587,869, published Dec. 11, 1951. Class 39.

Goodman-Kleiner Co., Inc., New York, N. Y. Hospital and sick room supplies. 555,823, Mar. 11; Serial No. 568,730, published Oct. 30, 1951. Class 44.

Graceform-Camlin Corset Co., Inc., New York, N. Y. Brassières, girdles, and combination brassières and corsets. 556,036, Mar. 11; Serial No. 612,070, published Dec. 18, 1951. Class 39.

Gray Fox Inc., Kansas City, Mo. Vaginal diaphragm. 555,828, Mar. 11; Serial No. 572,302, published Nov. 6, 1951. Class 44.

Gro Togs Inc., New York, N. Y. Infants' overalls and sunsuits. 556,131, Mar. 11; Serial No. 601,828. Class 39.

Growers Outlet: *See*—
Monarch Wine Company of Ga.

Gulf States Paper Corporation, Tuscaloosa, Ala. Wrapping paper and butchers' paper. 555,925, Mar. 11; Serial No. 603,234, published Nov. 20, 1951. Class 37.

Haddix, M. Cornelius: *See*—
Haddix, Minnie B.

Haddix, Minnie B., administratrix of the estate of M. C. Haddix, deceased, doing business under the name of Lexington Distributing Co., Lexington, Ky. Whiskey. 555,813, Mar. 11; Serial No. 561,461, published Dec. 18, 1951. Class 49.

Hadley, Charles R., Company, Los Angeles, Calif. Partially printed forms, and on binders and covers for enclosing forms. 555,916, Mar. 11; Serial No. 601,727, published Oct. 30, 1951. Class 37.

Hammel, Riglander & Co., Inc., New York, N. Y. Watch repair record books. 555,830, Mar. 11; Serial No. 574,700, published Nov. 13, 1951. Class 37.

Hampden Brewing Company, Willimansett, Mass. Ale. 391,632, Nov. 18, 1941. Republished Mar. 11. Class 48.

Hampden Brewing Company, Willimansett, Mass. Ale. 395,603, June 2, 1942. Republished Mar. 11. Class 48.

Hanes Hosiery Mills Company, Winston-Salem, N. C. Hosiery. 555,900, Mar. 11; Serial No. 598,724, published Dec. 18, 1951. Class 39.

Happé Products Limited, London, England. Buttons, hat ornaments, cuff-links, etc. 555,996, Mar. 11; Serial No. 609,973, published Dec. 25, 1951. Class 40.

Harr, Jesse, Company, Orange, N. J. Beverage dispensers. 555,824, Mar. 11; Serial No. 568,791, published Dec. 25, 1951. Class 13.

Hartnell, Norman, Limited, London, England. Women's dresses, evening gowns, coats, suits, and furs. 555,811, Mar. 11; Serial No. 560,559, published Nov. 27, 1951. Class 39.

Harzfeld's, Inc., Kansas City, Mo. Women's leather, fabric, and combination leather-fabric shoes. 293,984, renewed May 10, 1952. O. G. Mar. 11. Class 39.

Hashiba, Frank Y., New York, N. Y., to F. Y. Hashiba, Alton, R. I. Table sauce. 83,332, re-renewed Sept. 5, 1951. O. G. Mar. 11. Class 46.

Hawaiian Cane Products, Limited, Honolulu, Territory of Hawaii, to The Flintkote Company, New York, N. Y. Insulating board, insulating lath, insulating tile, etc. 294,076, renewed May 17, 1952. O. G. Mar. 11. Class 12.

Hearst Corporation, The: *See*—
Hearst Magazines Inc.

Hearst Corporation, The, New York, N. Y. Series of cartoons or comic strips. 556,061, Mar. 11; Serial No. 613,450, published Dec. 25, 1951. Class 38.

Hearst Magazines Inc., New York, N. Y., now by merger The Hearst Corporation. Magazine feature, section or department. 556,046, Mar. 11; Serial No. 612,614, published Dec. 4, 1951. Class 38.

Helwith, Alfred L., & Co., Inc., to J. P. Stevens & Co., Inc., New York, N. Y. Men's cotton shirtings in the piece and cotton textile fabrics. 293,464, renewed Apr. 26, 1952. O. G. Mar. 11. Class 42.

Henkel-Clauss Company, The, Fremont, Ohio, and New York, N. Y. Nail files. 556,099, Mar. 11; Serial No. 546,701. Class 44.

Henry Valve Company, Melrose Park, Ill. Relief valves. 555,886, Mar. 11; Serial No. 593,988, published Dec. 18, 1951. Class 13.

Herman, Vic: *See*—
Herman, Victor J.

Herman, Victor J., doing business as Vic Herman, New York, N. Y. Cartoons. 556,059, Mar. 11; Serial No. 613,294, published Dec. 11, 1951. Class 38.

Hershkowitz, J., Inc., New York, N. Y. Tailer's chalk. 555,919, Mar. 11; Serial No. 601,911, published Dec. 11, 1951. Class 37.

Hillyard Chemical Company, St. Joseph, Mo. Cement floor enamel. 294,010, renewed May 10, 1952. O. G. Mar. 11. Class 16.

Hillyard Chemical Company, St. Joseph, Mo. Metal paint. 294,011, renewed May 10, 1952. O. G. Mar. 11. Class 16.

Hobart Manufacturing Company, The: *See*—
National Aerating Process Company.

Hostetter Company, The, to Hostetter Corporation, Pittsburgh, Pa. Stomach-bitters. 84,232, re-renewed Nov. 21, 1951. O. G. Mar. 11. Class 18.

Hostetter Corporation: *See*—
Hostetter Company, The.

Houghton, E. F., & Co., Philadelphia, Pa. Leather belting. 291,994, Mar. 1, 1932. Republished Mar. 11. Class 35.

Hume, H. D., Company, Mendota, Ill. Harvesting machine. 556,098, Mar. 11; Serial No. 541,793. Class 23.

Hunter-Wilson Distilling Co., Inc., Bristol, Pa., and New York, N. Y. Alcoholic beverages. 555,866, Mar. 11; Serial No. 588,955, published Oct. 30, 1951. Class 49.

Hydes' Anvil Brewery Limited, Manchester, England. Beers, ales, and stouts. 555,997, Mar. 11; Serial No. 609,977, published Nov. 20, 1951. Class 48.

Ideal Leather Manufacturing Company, St. Paul, Minn. Leather gloves and mittens. 555,861, Mar. 11; Serial No. 587,613, published May 29, 1951. Class 39.

Illingworth's Snuffs Limited, Kendal, Westmoreland, England. Snuff. 555,893, Mar. 11; Serial No. 596,727, published Sept. 25, 1951. Class 17.

Illinois Tool Works, Chicago, Ill. Lock nuts. 555,943, Mar. 11; Serial No. 605,421, published Dec. 25, 1951. Class 13.

Industrial Synthetics Corporation, Garwood, N. J. Stair and floor coverings. 555,894, Mar. 11; Serial No. 597,762, published Nov. 6, 1951. Class 50.

International Harvester Company, Chicago, Ill. Refrigeration packaging products—namely, wrapping paper. 555,917, Mar. 11; Serial No. 601,798, published Dec. 18, 1951. Class 37.

International Harvester Company, Chicago, Ill. Refrigeration packaging products—namely, wrapping paper. 555,918, Mar. 11; Serial No. 601,801, published Dec. 18, 1951. Class 37.

Istituto Nazionale per il Commercio Estero, Rome, Italy. Wine. 556,093, Mar. 11; Serial No. 560,895, published Dec. 18, 1951. Class 47.

Jax Brewing Company: *See*—
Jax Ice & Cold Storage Company.

Jax Ice & Cold Storage Company, also doing business as Jax Brewing Company, Jacksonville, Fla. Ale. 555,803, Mar. 11; Serial No. 555,606, published Dec. 4, 1951. Class 48.

Jefferson Pharmacal Company, Detroit, Mich. Vitamin capsules and tablets. 556,027, Mar. 11; Serial No. 611,647, published Nov. 13, 1951. Class 18.

Jergens, Andrew, Company, The, Cincinnati, Ohio. Face powder. 555,833, Mar. 11; Serial No. 577,059, published Nov. 6, 1951. Class 51.

Johnson & Johnson, New Brunswick, N. J. Nasal tampons. 555,920, Mar. 11; Serial No. 601,923, published Nov. 6, 1951. Class 44.

Jones, E. D., & Sons Company, Pittsfield, Mass. Jordan machines and fillings therefor. 556,103, Mar. 11; Serial No. 554,793. Class 23.

Jones, J., Products: *See*—
Jones, Jefferson.

Jones, Jefferson, doing business as J. Jones Products, Chicago, Ill. Face lotion. 555,956, Mar. 11; Serial No. 607,674, published Nov. 6, 1951. Class 51.

Jordan Marsh Company, Boston, Mass. Women's and misses' dresses. 556,056, Mar. 11; Serial No. 613,134, published Dec. 18, 1951. Class 39.

Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. 556,081, Mar. 11; Serial No. 616,487, published Dec. 25, 1951. Class 42.

Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. 556,082, Mar. 11; Serial No. 616,496, published Dec. 25, 1951. Class 42.

Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. 556,083, Mar. 11; Serial No. 616,498, published Dec. 25, 1951. Class 42.

Kaltman, D., & Co., Inc., Jersey City, N. J. Partially printed memorandum book. 555,876, Mar. 11; Serial No. 592,081, published Dec. 11, 1951. Class 37.

Kaplan, Mattlo, & Son, Inc., New York, N. Y. Ladies' dresses. 555,994, Mar. 11; Serial No. 609,684, published Dec. 18, 1951. Class 39.

Kasin, V. A., Molded Products: *See*—
Kasin, Vincent A.

Kasin, Vincent A., doing business as V. A. Kasin Molded Products, Houston, Tex. Condiment holders. 556,096, Mar. 11; Serial No. 516,418. Class 2

Kelly-Springfield Tire Company, The: *See*—
Kelly-Springfield Tire Company.

Kelly-Springfield Tire Company, New York, N. Y., to The Kelly-Springfield Tire Company, Cumberland, Md. Automobile tires. 291,996, renewed Mar. 1, 1952. O. G. Mar. 11. Class 35.

Ketcham & McDougall, Inc., East Orange, N. J. Watch guards and retracting key chains. 555,834, Mar. 11; Serial No. 576,812, published Nov. 6, 1951. Class 28.

Kewaskum Utensil Company, Kewaskum, Wis., now by change of name Regal Ware, Inc. Aluminum sauce pans and cooking pots and fryers. 556,074, Mar. 11; Serial No. 614,255, published Dec. 25, 1951. Class 13.

Key Company, East St. Louis, Ill. Tube connectors. 556,062, Mar. 11; Serial No. 613,464, published Dec. 25, 1951. Class 13.

Keystone Steel and Wire Company, Peoria, Ill. Barb wire. 85,908, re-renewed Mar. 26, 1952. O. G. Mar. 11. Class 13.

Kidde, Walter, & Company, Inc., New York, N. Y., to Walter Kidde & Company, Inc., Belleville, N. J. Aircraft flotation system. 290,393, renewed Jan. 5, 1952. O. G. Mar. 11. Class 19.

King Midas Mill Company: *See*—
Van Dusen Harrington Co.

Kinnard, Incorporated, Little Falls, N. J. Disinfectant material. 556,073, Mar. 11; Serial No. 614,151, published Dec. 18, 1951. Class 6.

Knickerbocker Case Company, Chicago, Ill. Sample cases and bags. 84,781, re-renewed Jan. 2, 1952. O. G. Mar. 11. Class 3.

Koppers Company, Inc., Pittsburgh, Pa., and New York, N. Y. Plain, molded, hand-dipped, decorative and art candles. 555,879, Mar. 11; Serial No. 592,820, published Nov. 6, 1951. Class 15.

Krinick, Joseph, Brooklyn, N. Y. Detachable kneeling pads. 556,135, Mar. 11; Serial No. 606,303. Class 50.

Kuhlke Seed & Grain Company, Augusta, Ga. Field and garden seeds. 555,935, Mar. 11; Serial No. 604,726, published July 3, 1951. Class 1.

L. L. Publishing Co., Inc., New York, N. Y. Magazine and for a cartoon strip. 556,053, Mar. 11; Serial No. 613,009, published Dec. 11, 1951. Class 38.

Laboratoires Francais de Chimiotherapie, Paris, France. Medicinal hormone preparation. 556,019, Mar. 11; Serial No. 611,284, published Nov. 6, 1951. Class 18.

Lange, Bert J., trading under the name Timber Tie Company, Randolph, Vt. Bow necktie. 555,847, Mar. 11; Serial No. 583,350, published Nov. 27, 1951. Class 39.

Le Gear, Dr. L. D., Medicine Company, St. Louis, Mo. Medicinal preparations. 293,263, renewed Apr. 19, 1952. O. G. Mar. 11. Class 18.

Lehigh Silk Hosiery Mills, Inc., New York, N. Y., by Durham Hosiery Mills, Durham, N. C. Men's, women's, and children's hosiery. 201,200, July 21, 1925. Republished Mar. 11. Class 39.

Lehman, Harold J., Inc., Chicago, Ill. Children's hats, infants' bonnets, and boys' caps. 555,902, Mar. 11; Serial No. 598,913, published Dec. 11, 1951. Class 39.

Le Roy Shirt Co., Inc., New York, N. Y. Men's outer shirts. 555,822, Mar. 11; Serial No. 568,642, published Dec. 11, 1951. Class 39.

Levinson Company, The: *See*—
Levinson, Evelyn S.

Levinson, Evelyn S., doing business under the name and style of The Levinson Company, New York, N. Y. Pencils and ball point pens. 555,970, Mar. 11; Serial No. 608,762, published Dec. 11, 1951. Class 37.

Levy-Theisen, Inc., New York, N. Y. Fur coats, fur jackets and fur capes. 555,892, Mar. 11; Serial No. 596,102, published Nov. 27, 1951. Class 39.

Lexington Distributing Co.: *See*—
Haddix, Minnie B.

Limbach, Curtis A., doing business as Calvin Curtis, New York, N. Y. Neckties, cravats, scarves, etc. 555,875, Mar. 11; Serial No. 591,991, published Dec. 11, 1951. Class 39.

Listo Pencil Corporation, Alameda, Calif. Mechanical pencils. 555,944, Mar. 11; Serial No. 605,863, published Dec. 11, 1951. Class 37.

Literary Guild of America, Inc., The, Garden City, N. Y. Books. 555,829, Mar. 11; Serial No. 573,327, published Dec. 4, 1951. Class 38.

Lowenstein, M., & Sons, Inc., New York, N. Y. Plastic film and plastic coated fabrics. 555,855, Mar. 11; Serial No. 586,039, published Dec. 25, 1951. Class 42.

Lubin-Weeker Co., Inc., New York, N. Y. Men's and boys' pajamas. 556,033, Mar. 11; Serial No. 611,847, published Dec. 11, 1951. Class 39.

Lyndonville Canning Company, Inc., Lyndonville, N. Y. Canned apple sauce. 556,139, Mar. 11; Serial No. 609,304. Class 46.

Madrone Vineyards, doing business as Almaden-Madrone Vineyards, Madrone, Calif. Wines. 555,978–81, Mar. 11; Serial Nos. 609,038–41, published Oct. 30, 1951. Class 47.

Mail-well Envelope Company, Portland, Oreg. Correspondence and mailing envelopes. 555,939. Mar. 11; Serial No. 604,979, published Dec. 4, 1951. Class 37.

Maison Pierre Bardou Job., to Societe Job, Anciens Etablissements Bardou-Job & Paulihac, Perpignan, France. Cigarette-papers. 37,640, re-renewed Jan. 14, 1952. O. G. Mar. 11. Class 8.

Mandel & Cohen, to Isidor H. Cohen, New York, N. Y. Underwear. 293,728, renewed May 3, 1952. O. G. Mar. 11. Class 39.

Mara Laboratories, Inc., The, Harrison, N. J. Medicinal preparation. 556,017, Mar. 11; Serial No. 611,231, published Nov. 6, 1951. Class 18.

Marinette Knitting Mills, Marinette, Wis. Ladies' and girls' suits and sweaters, and ladies' and misses' dresses, skirts, etc. 555,818, Mar. 11; Serial No. 565,946, published Nov. 27, 1951. Class 39.

Martell, J. & F., Inc., New York, N. Y. Brandy. 555,808, Mar. 11; Serial No. 560,121, published Oct. 30, 1951. Class 49.

Martell, J. & F., Inc., New York, N. Y. Brandy. 555,941, Mar. 11; Serial No. 605,219. Oct. 30, 1951. Class 49.

Marx & Haas-Korrekt Company, St. Louis, Mo. Men's and young men's suits, coats, sportcoats, etc. 555,787, Mar. 11; Serial No. 529,665, published Oct. 24, 1950. Class 39.

Masland, C. H., & Sons, Carlisle, Pa. Textile carpets and rugs. 556,084, Mar. 11; Serial No. 616,798, published Dec. 25, 1951. Class 42.

Masterpiece Foods, Inc.: *See*—
California Sanitary Canning Co.

Matsil, Harry, & Sons, New York, N. Y. Bath, lounging and beach robes. 555,836, Mar. 11; Serial No. 577,534, published Dec. 4, 1951. Class 39.

Mavest Inc., New York, N. Y. Sport coats and overcoats for men and sport suits for men. 555,887, Mar. 11; Serial No. 594,854, published Feb. 13, 1951. Class 39.

McBee Company, The, Athens, Ohio. Stationery, letter paper, leaves for looseleaf files, etc. 555,793, Mar. 11; Serial No. 543,628, published Dec. 11, 1951. Class 37.

McBee Company, The, Athens, Ohio. Stationery. 555,794, Mar. 11; Serial No. 543,629, published Dec. 11, 1951. Class 37.

McBee Company, The, Athens, Ohio. Stationery, letter paper, leaves for looseleaf files, etc. 555,795, Mar. 11; Serial No. 543,630, published Dec. 11, 1951. Class 37.

McCall Corporation, New York, N. Y. Magazines, publications, catalogues, etc. 555,927, Mar. 11; Serial No. 603,486, published Dec. 11, 1951. Class 38.

McClure, Helen S., New York, N. Y. Infants' disposable paper bibs. 555,968, Mar. 11; Serial No. 608,559, published Dec. 11, 1951. Class 37.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Section of a periodical. 555,933, Mar. 11; Serial No. 609,656, published Dec. 11, 1951. Class 38.

McLean, Lawrence, doing business as McLean's Band Shop, Kansas City, Mo. Elongated brush-like cloth swabs. 556,109, Mar. 11; Serial No. 559,167. Class 29.

McLean's Band Shop: *See*—
McLean, Lawrence.

McNaught Syndicate, Inc., The, New York, N. Y. Newspaper column. 556,035, Mar. 11; Serial No. 612,025, published Dec. 4, 1951. Class 38.

Mergenthaler Linotype Company, Brooklyn, N. Y. Matrices for type bar casting machines. 292,530–32, renewed Mar. 15, 1952. O. G. Mar. 11. Class 50.

Mills, James, Orchards Company, Hamilton City, Calif. Fresh fruits, dried deciduous fruits, frozen cooked deciduous fruits, etc. 555,907, Mar. 11; Serial No. 600,064, published Dec. 18, 1951. Class 46.

Milprint, Inc., Milwaukee, Wis. Composite packaging containers. 556,116, Mar. 11; Serial No. 578,816. Class 2.

Milton Roy Company, Philadelphia, Pa. Controlled volume measuring pump. 556,051, Mar. 11; Serial No. 612,827, published Nov. 20, 1951. Class 26.

Minkin, Louis E., Los Angeles, Calif. Folders. 555,881, Mar. 11; Serial No. 593,007, published Nov. 27, 1951. Class 37.

Minnesota and Ontario Paper Company, Minneapolis, Minn. B-1 converting paper. 555,835, Mar. 11; Serial No. 577,205, published Nov. 27, 1951. Class 37.

Minnesota and Ontario Paper Company, Minneapolis, Minn. Packaging and wrapping papers. 556,028, Mar. 11; Serial No. 611,650, published Dec. 4, 1951. Class 37.

Mission Bell Wineries: *See*—
Arakelian, K., Inc.

Mission Wineries: *See*—
Arakelian, K., Inc.

Mittag & Volger, Incorporated, Park Ridge, N. J. Carbon paper and typewriter ribbons. 555,957, Mar. 11; Serial No. 607,679, published Nov. 27, 1951. Class 11.

Monarch Marking System Company, The, Dayton, Ohio. Price marking tickets, tags, and labels. 555,969, Mar. 11; Serial No. 608,662, published Dec. 11, 1951. Class 37.

Monarch Wine Company of Ga., also trading as Growers Outlet, Atlanta, Ga. Wines. 555,932, Mar. 11; Serial No. 604,212, published Nov. 13, 1951. Class 47.

Moore, P. O., Inc., New York, N. Y. Permanent and temporary key identification tags. 556,120, Mar. 11; Serial No. 588,315. Class 50.

Moore, Samuel, & Company, Mantua, Ohio. Plastic material. 555,931, Mar. 11; Serial No. 603,936, published Nov. 6, 1951. Class 50.

Morris, Owen, doing business as Owen Morris & Co., New York, N. Y. Mechanical pencils. 555,871, Mar. 11; Serial No. 590,907, published Dec. 11, 1951. Class 37.

Morris, Owen, & Co.: *See*—
Morris, Owen.

Mutual Broadcasting System, Inc., New York, N. Y. Radio broadcasting services. 556,091–2, Mar. 11; Serial Nos. 612,466–7, published Dec. 25, 1951. Class 104.

NEA Service, Inc., Cleveland, Ohio. Comic strips. 555,999, Mar. 11; Serial No. 610,018, published Dec. 18, 1951. Class 38.

Nagel Brothers, La Grange, Ill. Dressed poultry and poultry products. 555,988, Mar. 11; Serial No. 600,492, published Dec. 18, 1951. Class 46.

Nashua Gummed and Coated Paper Company, Nashua, N. H. Waxed paper. 555,853, Mar. 11; Serial No. 585,662, published Dec. 4, 1951. Class 37.

Natco Products Corporation, Providence, R. I. Waterproof bags. 556,119, Mar. 11; Serial No. 583,769. Class 2.

Nathan Products Corporation, New York, N. Y. Hand bags and carrying cases. 556,118, Mar. 11; Serial No. 581,281. Class 3.

National Aerating Process Company, Pittsburgh, Pa., to The Hobart Manufacturing Company, Troy, Ohio. Machines for aerating cream akin to whipped cream and similar products. 292,073, renewed Mar. 1, 1952. O. G. Mar. 11. Class 23.

National Silver Company, New York, N. Y. Ceramic dinnerware. 556,126, Mar. 11; Serial No. 598,096. Class 30.

National Spiritual Assembly of the Baha'is of the United States, Wilmette, Ill. Publications. 556,064, Mar. 11; Serial No. 610,452, published Dec. 11, 1951. Class 38.

National Store Specialty Co., Bareville, Pa. Gasoline and oil storage measuring pumps, measuring grease pumps, and weighing scales. 555,857, Mar. 11; Serial No. 586,647, published Nov. 20, 1951. Class 26.

Nebraska Consolidated Mills Company, Omaha, Nebr. Poultry mash and dairy and hog feeds. 556,054, Mar. 11; Serial No. 613,081, published Dec. 18, 1951. Class 46.

Nedick's, Inc., New York, N. Y. Orange-flavored malt'ess soft drink and concentrate. 555,903, Mar. 11; Serial No. 598,922, published Dec. 18, 1951. Class 45.

Nehi Corporation, Columbus, Ga. Nonalcoholic, maltless beverages. 556,003, Mar. 11; Serial No. 610,293, published Nov. 6, 1951. Class 45.

Nestle-Le Mur Company, The, New York, N. Y. Hair rinses. 556,130, Mar. 11; Serial No. 601,806. Class 51.

Newly Weds Baking Co., Chicago, Ill. Ice cream cake roll and cake. 555,827, Mar. 11; Serial No. 572,041, published Dec. 18, 1951. Class 46.

Newnan Hosiery Mills, Incorporated, Newnan, Ga., assignor to Spalding Knitting Mills, Hosiery. 555,946, Mar. 11; Serial No. 606,433, published Dec. 11, 1951. Class 39.

New York Herald Tribune Inc., New York, N. Y. Magazine. 555,998, Mar. 11; Serial No. 609,980, published Dec. 11, 1951. Class 38.

Nichols Wire & Aluminum Co., Davenport, Iowa. Nails. 556,064, Mar. 11; Serial No. 613,520, published Dec. 25, 1951. Class 13.

Nopco Chemical Company, Harrison, N. J. Fat-soluble vitamin concentrates. 555,922, Mar. 11; Serial No. 602,619, published Nov. 6, 1951. Class 18.

Nopco Chemical Company, Harrison, N. J. Fat-soluble vitamin-containing glyceride oils. 555,923–4, Mar. 11; Serial Nos. 602,620–1, published Nov. 6, 1951. Class 18.

Nopco Chemical Company, Harrison, N. J. High potency vitamin-containing solids. 555,947–8, Mar. 11; Serial Nos. 606,788–9, published Nov. 6, 1951. Class 18.

Norcross, Inc., New York, N. Y. Gift wrapping paper. 556,041, Mar. 11; Serial No. 612,344, published Dec. 25, 1951. Class 37.

North American Aviation, Inc., Los Angeles, Calif. Periodical. 555,982, Mar. 11; Serial No. 609,138, published Dec. 18, 1951. Class 38.

Northwood Fur Farms, Cary, Ill. Mink garments. 555,906, Mar. 11; Serial No. 599,966, published Dec. 11, 1951. Class 39.

Nox-Rust Chemical Corporation, Chicago, Ill. Chemicals. 555,929, Mar. 11; Serial No. 603,644, published June 5, 1951. Class 6.

Oak Ridge Manufacturing Company, Charleston, S. C. Fountain pens and mechanical pencils. 555,814, Mar. 11; Serial No. 563,357, published Oct. 30, 1951. Class 37.

Oberti, James M., doing business as Oberti Manufacturing Company, San Francisco, Calif. Curved floor squeegees, straight floor squeegees, curved floor brushes, etc. 556,002, Mar. 11; Serial No. 610,225, published Nov. 6, 1951. Class 29.

Oberti Manufacturing Company: *See*—
Oberti, James M.

Owen Osborne Hosiery Mills, Inc., doing business as El-De Sales Company, Gainesville, Ga. Hosiery for men, women, and children. 444,669, Mar. 11; Serial No. 508,065, published Dec. 18, 1951. Class 39.

Pacific Brewing & Malting Co., San Francisco, Calif. Beer. 556,018, Mar. 11; Serial No. 611,237, published Dec. 18, 1951. Class 48.

Pacific Union Conference, The: *See*—
Voice of Prophecy, Inc.

Palnut Company, The, Irvington, N. J. Metal fastening devices. 556,075, Mar. 11; Serial No. 614,510, published Dec. 25, 1951. Class 13.

Pantasote Company, The, Passaic, N. J. Plastic film. 555,804, Mar. 11; Serial No. 555,620, published Nov. 6, 1951. Class 50.

Paradise Products Corporation, Fairview, N. J. Self-polishing floor wax. 555,905, Mar. 11; Serial No. 599,650, published Nov. 27, 1951. Class 4.

Penn Industrial Instrument Corporation, Philadelphia, Pa. Liquid, steam, and gas flow controllers, etc. 555,825, Mar. 11; Serial No. 571,456, published Nov. 20, 1951. Class 26.

Penn-Rilliton Company, Irwin, Pa., and New York, N. Y. Dry carbonaceous and graphitic facings for metal-casting molds. 556,137, Mar. 11; Serial No. 608,374. Class 1.

Penn-Rilliton Company, Irwin, Pa., and New York, N. Y. Carbonaceous or graphitic liquid facings for sand molds. 556,138, Mar. 11; Serial No. 608,375. Class 1.

Peoples First National Bank and Trust Company, assignee: *See*—
Shenango Pottery Company.

Petri Cigar Company, Inc.: *See*—
Petri Wine Company.

Petri Wine Company, San Francisco, Calif., by change of name from Petri Cigar Company, Inc., trading as Petri Wine Company. Wines. 555,777, Mar. 11; Serial No. 492,736, published Oct. 30, 1951. Class 47.

Pfingst, Adolph, Stapleton, to Pfingst & Company, Inc., New York, N. Y. Dental tools. 292,136, renewed Mar. 1, 1952. O. G. Mar. 11. Class 44.

Pfingst & Company, Inc.: *See*—
Pfingst, Adolph.

Pine Bros., Inc., Philadelphia, Pa. Glycerine tablets. 556,032, Mar. 11; Serial No. 611,807, published Nov. 13, 1951. Class 18.

Pine Hill Crystal Spring Water Co., New York, N. Y. Spring water. 555,870, Mar. 11; Serial No. 590,699, published Oct. 30, 1951. Class 45.

Porter, Richard H., doing business as The United Safety Service, Chicago, Ill. Periodical. 556,009, Mar. 11; Serial No. 610,713, published Dec. 25, 1951. Class 38.

Posner, I., Inc., New York, N. Y. Liquid preparation to be used when combing the hair. 556,127, Mar. 11; Serial No. 598,752. Class 51.

Preddy, Fred A., doing business as Preddywear Mills, Mount Airy, N. C. Ladies' and girls' knit sport skirts, woven sport skirts, dresses, etc. 555,949, Mar. 11; Serial No. 606,805, published Dec. 18, 1951. Class 39.

Preddywear Mills: *See*—
Preddy, Fred A.

Pretty Products, Inc., Coshocton, Ohio. Bathing caps. 555,856, Mar. 11; Serial No. 586,310, published Nov. 27, 1951. Class 39.

Preventive Maintenance Company, Bridgeport, Conn. Solvent for cleaning air brake systems. 555,880, Mar. 11; Serial No. 592,933, published Dec. 18, 1951. Class 32.

Protecto Products Co., Inc., Pomona, Calif. Paper napkins and paper garment hanger covers. 555,840, Mar. 11; Serial No. 578,825, published Oct. 30, 1951. Class 37.

Pullman-Standard Car Manufacturing Company, Chicago Ill. Check chain hooks, trapdoor latches, vestibule door latches, etc. 555,942, Mar. 11; Serial No. 605,267, published Dec. 25, 1951. Class 13.

Puritan Stationery Company, Inc., Philadelphia, Pa. Writing paper and mailing envelopes. 556,010, Mar. 11; Serial No. 610,715, published Nov. 13, 1951. Class 37.

Quench Bottling Co.: *See*—
Eland, S. S.

Quench Company, The: *See*—
Eland, S. S.

Quench-Nesbitt Bottling Co.: *See*—
Eland, S. S.

Raab, M. H., Co., Inc., to M. H. Raab-Meyerhoff Co., Inc., Philadelphia, Pa. Men's dress, negligee, and work shirts. 289,706, renewed Dec. 1, 1951. O. G. Mar. 11. Class 39.

Raab-Meyerhoff, M. H., Co., Inc.: *See*—
Raab, M. H., Co., Inc.

Raab-Meyerhoff, M. H., Co., Inc., Philadelphia, Pa. Dress shirts and collars, and combinations thereof. 555,806, Mar. 11; Serial No. 559,546, published Nov. 27, 1951. Class 39.

Regal Chemical Corporation, Brooklyn, N. Y. Insecticides. 555,796, Mar. 11; Serial No. 543,655, published Dec. 18, 1951. Class 6.

Regal Ware, Inc.: *See*—
Kewaskum Utensil Company.

Register and Tribune Company, The, Des Moines, Iowa. Newspaper and magazine feature or column. 556,071, Mar. 11; Serial No. 613,823, published Dec. 25, 1951. Class 38.

Register and Tribune Company, The, Des Moines, Iowa. Cartoon section of newspapers and other publications. 556,072, Mar. 11; Serial No. 613,824, published Dec. 25, 1951. Class 38.

Reliance Manufacturing Company, Chicago, Ill. Flannel shirts. 555,914, Mar. 11; Serial No. 601,467, published Feb. 13, 1951. Class 39.

Resistance Welder Corporation, Bay City, Mich. Electric welding machines. 429,373, Apr. 29, 1947. Republished Mar. 11. Class 21.

Rice-Stix, Inc., St. Louis, Mo. Misses' and ladies' frocks. 556,042, Mar. 11; Serial No. 612,375, published Dec. 18, 1951. Class 39.

Robinson, Lee I., Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery and sweaters for men and women. 556,125, Mar. 11; Serial No. 596,362. Class 39.

Rockwell Manufacturing Company, Pittsburgh, Pa. Saw gages, pressure-correcting gas meters, fluid meters, etc. 556,024, Mar. 11; Serial No. 611,541, published Nov. 20, 1951. Class 26.

Rogers Brothers Seed Company, Inc., Chicago, Ill. Sheep feed. 556,104, Mar. 11; Serial No. 556,697. Class 46.

Roller Derby Associates, Chicago, Ill. All types of pennants, lapel buttons. 555,913, Mar. 11; Serial No. 600,975, published Nov. 13, 1951. Class 50.

Rosen, Hans M., New York, N. Y. Artist's brushes. 556,022, Mar. 11; Serial No. 611,492, published Dec. 4, 1952. Class 29.

Rosenhols, J., Inc., New York, N. Y. Rayon piece goods. 556,128, Mar. 11; Serial No. 599,976. Class 42.

Rubyette Co., The: *See*—
S and W Fine Foods, Inc.

Russell, F. L., Corporation, Saugerties, N. Y. Tablets, blank books, memorandum books, etc. 555,890, Mar. 11; Serial No. 595,418, published Dec. 11, 1951. Class 37.

S and W Fine Foods, Inc., also doing business as The Rubyette Co., San Francisco, Calif. Processed grapes. 555,837, Mar. 11; Serial No. 578,288, published May 15, 1951. Class 46.

Safety Car Heating and Lighting Company, Inc., The, New York, N. Y. Plumbing, steam-fitting, gas fitting, and air and gas valves, etc. 556,078, Mar. 11; Serial No. 615,026, published Dec. 25, 1951. Class 13.

Schenley Laboratories, Inc., New York, N. Y. Products used as mixing ingredients in poultry, livestock, and other animal feeds, and containing vitamin B_{12}. 556,020, Mar. 11; Serial No. 611,314, published Nov. 13, 1951. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Products used as mixing ingredients in poultry, livestock, and other animal feeds, and containing vitamin B_{12}. 556,021, Mar. 11; Serial No. 611,315, published Nov. 6, 1951. Class 18.

Schilling, C., Company, also doing business as Sweet Sue Wine Company, San Francisco, Calif., assignor to S. J. Block, New Orleans, La. Wines. 555,838, Mar. 11; Serial No. 578,531, published May 2, 1950. Class 47.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' chemises, princess slips, step-ins, etc. 556,105–6, Mar. 11; Serial Nos. 558,515–16. Class 39.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' chemises, princess slips, bloomers, etc. 556,107, Mar. 11; Serial No. 558,517. Class 39.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' and children's princess slips, night gowns, pajamas, etc. 556,108, Mar. 11; Serial No. 558,934. Class 39.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' chemises, princess slips, bloomers, etc. 556,110, Mar. 11; Serial No. 558,936. Class 39.

Schwartz Manufacturing Company, Two Rivers, Wis. Milk filter discs. 556,133, Mar. 11; Serial No. 604,863. Class 31.

Scotch Tailors, Inc., Chicago, Ill. Men's suits, top coats, overcoats, etc. 556,101, Mar. 11; Serial No. 551,051. Class 39.

Serv-A-Station, Inc., Los Angeles, Calif. Accounting and bookkeeping services. 556,088, Mar. 11; Serial No. 559,122, published Dec. 18, 1951. Class 101.

Shaw-Walker Company, The, Muskegon, Mich. Vertical filing guides and indexes, filing folders, etc. 555,843, Mar. 11; Serial No. 581,834, published Dec. 4, 1951. Class 37.

Shedd, H. Plymouth, Wayzata, Minn. Combination automobile calendar and notebook. 555,964, Mar. 11; Serial No. 608,436, published Dec. 11, 1951. Class 37.

Shellmar Products Corporation, Chicago, Ill. Cellulosic wrappers. 555,779, Mar. 11; Serial No. 505,773, published Dec. 4, 1951. Class 37.

Shellmar Products Corporation, Chicago, Ill. Printed merchandise wrappers. 555,953, Mar. 11; Serial No. 607,238, published Dec. 11, 1951. Class 37.

Shenango Pottery Company, New Castle, assignor to Peoples First National Bank and Trust Company, Pittsburgh, Pa. Vitrified dishware. 555,915, Mar. 11; Serial No. 601,574, published Nov. 6, 1951. Class 30.

Sherley, A. F., & Co. Limited: *See*—
Sherley, Alexander F.

Sherley, Alexander F., by A. F. Sherley & Co. Limited, London, England. Food. 84,260, Nov. 21, 1911. Republished Mar. 11. Class 46.

Shields, Inc. of Attleboro, Mass., New York, N. Y. Gold-plated cuff links, tie bars, collar pins, and key chains. 556,142, Mar. 11; Serial No. 613,528. Class 28.

Shirriff's Limited, Toronto, Ontario, Canada. Food stuffs. 556,132, Mar. 11; Serial No. 603,313. Class 46.

Siegfried, H., & Sons, Inc., St. Louis, Mo. Men's and boys' trousers and slacks. 556,011, Mar. 11; Serial No. 610,805, published Nov. 27, 1951. Class 39.

Simons & French Company, Incorporated, New York, N. Y., and Sacramento, Calif. Fresh deciduous fruits, fresh citrus fruits. 291,142, Jan. 26, 1932. Republished Mar. 11. Class 46.

Simplex Binder Co., New York, N. Y. Memorandum books, address books, bridge pads, etc. 555,831, Mar. 11; Serial No. 575,495, published Dec. 11, 1951. Class 37.

Sitroux Incorporated, New York, N. Y. Facial tissues. 555,863, Mar. 11; Serial No. 587,827, published Oct. 30, 1951. Class 37.

Skandiakonserv, Hugo Hallgrens Konservfabriker Aktiebolag, Stockholm, Sweden. Canned fish products. 556,100, Mar. 11; Serial No. 548,873. Class 46.

Skyline Co., Chicago, Ill. Men's sport shirts. 555,809, Mar. 11; Serial No. 560,297, published Dec. 11, 1951. Class 39.

Smith, Kline & French Laboratories, Philadelphia, Pa. Preparation for use in the treatment of dermatological conditions. 556,029, Mar. 11; Serial No. 611,660, published Nov. 13, 1951. Class 18.

Smith, L. C., & Corona Typewriters, Inc., Syracuse, N. Y. Carbon papers, inked ribbons, and stencil inks. 556,115, Mar. 11; Serial No. 576,478. Class 11.

Smith, T. J. & J., Limited, London, England. Leather bound desk engagement books, leather bound desk diaries, etc. 555,908, Mar. 11; Serial No. 600,089, published Dec. 18, 1951. Class 37.

Snap-Tite, Inc., Cleveland, Ohio. Couplings. 555,911, Mar. 11; Serial No. 600,397, published Dec. 25, 1951. Class 13.

Societe Job, Anciens Etablisements Bardou-Job & Paulhac: *See*—
Maison Pierre Bardou Job.

Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., The, Detroit, Mich. Stimulating and maintaining interest in the preservation and encouragement of barber shop quartet singing. 556,094, Mar. 11; Serial No. 592,168, published Dec. 25, 1951. Class 100.

Soovain Co., The: *See*—
Ferris & Ferris.

Sorg Paper Company, The, Middletown, Ohio. Writing paper, printing paper, bristol and paper of high strength. 555,780, Mar. 11; Serial No. 525,964, published Dec. 11, 1951. Class 37.

South Carolina Mills, Spartanburg, S. C. Underwear and outerwear for men, women, and children. 555,938, Mar. 11; Serial No. 604,865, published Dec. 11, 1951. Class 39.

Southern Fertilizer & Chemical Company, Savannah, Ga. Fertilizers. 555,967, Mar. 11; Serial No. 608,518, published Dec. 18, 1951. Class 10.

Southern Paperboard Corporation, Port Wentworth, Ga. Kraft liner board. 555,878, Mar. 11; Serial No. 592,672, published Oct. 30, 1951. Class 37.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Bleached and unbleached sulphate kraft wrapping paper. 555,921, Mar. 11; Serial No. 602,292, published Dec. 4, 1951. Class 37.

Sovereign Importers, Ltd., New York, N. Y. Champagne. 555,989, Mar. 1; Serial No. 609,497, published Nov. 27, 1951. Class 47.

Spalding Knitting Mills: *See*—
Newnan Hosiery Mills, Incorporated.

Standard Cap and Seal Corporation, Chicago, Ill. Laminated paper and foil bottle closures. 555,897, Mar. 11; Serial No. 598,118, published Nov. 6, 1951. Class 50.

Standard Oil Company, The, Cleveland, Ohio. All-purpose lubricating grease. 555,985, Mar. 11; Serial No. 609,322, published Nov. 6, 1951. Class 15.

Stansfeld, A. V., & Company: *See*—
Stansfeld, Arthur V.

Stansfeld, Arthur V., doing business as A. V. Stansfeld & Company, New York, N. Y. Cordials or liqueurs. 328,418, Sept. 24, 1935. Corrected. O. G. Mar. 11. Class 49.

Star-Peerless Wall Paper Mills, Chicago, Ill. Wall paper. 555,859, Mar. 11; Serial No. 587,404, published Oct. 30, 1951. Class 37.

Stegle, Helen E., Elsa, Tex. Fresh citrus fruits. 555,819, Mar. 11; Serial No. 567,157, published Dec. 18, 1951. Class 46.

Stemar Company, Inc., Chicago, Ill. Advertising services. 556,089, Mar. 11; Serial No. 563,827, published Dec. 18, 1951. Class 101.

Stenzel, R., Pickle Products: *See*—
Stenzel, Rudolph J.

Stenzel, Rudolph J., doing business as R. Stenzel Pickle Products, San Leandro, Calif. Bottled pickles, chili peppers, Italian style peppers, etc. 556,145, Mar. 11; Serial No. 616,835. Class 46.

Stevens, J. P., & Co., Inc.: *See*—
Helwith, Alfred L., & Co., Inc.

Superior Beverage Company, The, Youngstown, Ohio. Bottled wines. 556,030, Mar. 11; Serial No. 611,664, published Nov. 27, 1951. Class 47.

Sutherland Paper Company, Kalamazoo, Mich. Collapsible trays or cartons. 556,114, Mar. 11; Serial No. 564,977. Class 2.

Sweet Sue Wine Company: *See*—
Schilling, C., Company.

Syntomatic Corporation, New York, N. Y. Perfumes, toilet waters, perfume oil, etc. 555,975, Mar. 11; Serial No. 609,009, published Nov. 13, 1951. Class 51.

Syracuse Ornamental Co., Inc., Syracuse, N. Y. Memo pads, desk calendars, paper weights, and desk pen sets. 555,790, Mar. 11; Serial No. 538,050, published Dec. 4, 1951. Class 37.

Tal'-Wi-Wi Ranches: *See*—
Bumstead, Dale.

Tea Garden Products Co., San Francisco, Calif. Grape juice. 555,862, Mar. 11; Serial No. 587,767, published Dec. 4, 1951. Class 45.

Thompson, Edward, Company, Brooklyn, N. Y. Section of periodically issued reports. 556,055, Mar. 11; Serial No. 613,112, published Dec. 18, 1951. Class 38.

Thompson, Sam, Pure Rye Distilling Co., The: *See*—
Finch, Joseph S., and Company.

Tileston and Hollingsworth Company, Boston, Mass. Printing paper. 555,991–2, Mar. 11; Serial Nos. 609,372–3, published Dec. 4, 1951. Class 37.

Timber Tie Company: *See*—
Lange, Bert J.

Tokheim Oil Tank and Pump Company, Fort Wayne, Ind. Oil, liquid, and fuel measuring and dispensing pumps. 555,841, Mar. 11; Serial No. 579,522, published Nov. 27, 1951. Class 26.

Tompkins' Label Service, Philadelphia, Pa. Printed labels. 555,971–2, Mar. 11; Serial Nos. 608,772–3, published Dec. 25, 1951. Class 38.

Tompkins, W. A., Thomasville, Ala. Preparation for external application. 555,990, Mar. 11; Serial No. 609,518, published Nov. 13, 1951. Class 18.

True-Health Chemical Products Corporation, Bradford, Pa. Enzyme inhibitor. 555,952, Mar. 11; Serial No. 607,103, published Nov. 6, 1951. Class 18.

Ullman Company, Inc., The, Brooklyn, N. Y. Shelf lining and edging combination, made of plastic film. 556,134, Mar. 11; Serial No. 604,871. Class 42.

United Feature Syndicate, Inc., New York, N. Y. Publication. 555,846, Mar. 11; Serial No. 582,374, published Dec. 18, 1951. Class 38.

United Safety Service, The: *See*—
Porter, Richard H.

United Truck Owners of America, Inc., Akron, Ohio. Monthly publication. 555,965, Mar. 11; Serial No. 608,442, published Dec. 25, 1951. Class 38.

United Wallpaper, Inc., Chicago, Ill. Wall coverings made of rayon and cotton. 555,810, Mar. 11; Serial No. 560,508, published Sept. 5, 1950. Class 42.

United Western Laboratories Inc., Denver, Colo. Finishing creams, face lotions, astringents, etc. 555,821, Mar. 11; Serial No. 568,288, published Nov. 20, 1951. Class 51.

Universal Sports Corporation, New York, N. Y. Caps, shoes, stockings, etc. 555,930, Mar. 11; Serial No. 603,823, published Nov. 27, 1951. Class 39.

Valley Paper Company, Holyoke, Mass. Writing, typewriter and printing paper. 555,785, Mar. 11; Serial No. 527,523, published Sept. 13, 1949. Class 37.

Van Brush Manufacturing Co., Kansas City, Mo. Steel wire drag brooms, fibre drag brooms, street push brooms, etc. 555,909, Mar. 11; Serial No. 600,094, published Dec. 4, 1951. Class 29.

Van Duwen Harrington Co., now by change of name from King Midas Mill Company, and doing business under the name The Christian Mills, Minneapolis, Minn. Wheat flour. 555,798, Mar. 11; Serial No. 547,795, published Nov. 13, 1951. Class 46.

Vanity Corset Company, Inc., New York, N. Y. Corsets, corselets, girdles, etc. 556,067, Mar. 11; Serial No. 613,687, published Dec. 18, 1951. Class 39.

Vess Dry Company of Ohio, Columbus, Ohio. Non-alcoholic maltless beverages. 555,776, Mar. 11; Serial No. 475,473, published Mar. 15, 1949. Class 45.

Virginia Dare Extract Company, Inc., Brooklyn, N. Y. Non-alcoholic maltless soft drinks and concentrates. 555,958, Mar. 11; Serial No. 607,909, published Nov. 6, 1951. Class 45.

Vivette Foundations, Inc., New York, N. Y. Girdles, corsets and brassières. 556,068, Mar. 11; Serial No. 613,688, published Dec. 18, 1951. Class 39.

Voice of Prophecy, Inc., Washington, D. C., also operating as The Pacific Union Conference, Glendale, Calif. Services rendered by a vocal group. 556,086, Mar. 11; Serial No. 552,022, published Dec. 18, 1951. Class 107.

Von Guggenberg, Nicholas, doing business as Zanzar & Company, Brentwood, Mo. Perfume. 555,995, Mar. 11; Serial No. 609,894, published Nov. 6, 1951. Class 51.

Waldes Kohinoor, Inc., Long Island City, N. Y. Slide fasteners and parts thereof. 555,899, Mar. 11; Serial No. 598,399, published Dec. 25, 1951. Class 13.

Walker, Hiram, & Sons, Inc., Detroit, Mich., and Peoria, Ill. Vodka. 555,926, Mar. 11; Serial No. 603,424, published Dec. 11, 1951. Class 49.

Wallace, R., & Sons Manfg. Co., The, Wallingford, Conn. Sterling silver flatware. 556,097, Mar. 11; Serial No. 534,402. Class 28.

Waltham Bag & Paper Company, Waltham, Mass. Bags, boxes, and cartons. 556,123–4, Mar. 11; Serial Nos. 596,313–14. Class 2.

Wawak Company, Inc., Chicago, Ill. Woolen piece goods. 555,799, Mar. 11; Serial No. 549,772, published June 26, 1951. Class 42.

Wayne Pump Company, The, Fort Wayne, Ind. Self-measuring fuel pumps. 555,778, Mar. 11; Serial No. 505,022, published Nov. 20, 1951. Class 26.

Welch Grape Juice Company, The, Westfield, N. Y. Frozen concentrated grape juice. 556,066, Mar. 11; Serial No. 613,579, published Dec. 18, 1951. Class 45.

Western Air Lines, Inc., Los Angeles and Los Angeles Airport, Calif. Publications, bulletins and picture post cards. 555,807, Mar. 11; Serial No. 539,762, published Dec. 4, 1951. Class 38.

Western Tablet & Stationery Corporation, Dayton, Ohio. Papeteries. 444,670, Mar. 11; Serial No. 526,165, published Oct. 30, 1951. Class 37.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. 555,781, Mar. 11; Serial No. 526,057, published Nov. 13, 1951. Class 37.

Western Tablet & Stationery Corporation, Dayton, Ohio. Loose writing paper. 555,782, Mar. 11; Serial No. 526,080, published Dec. 11, 1951. Class 37.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. 555,783, Mar. 11; Serial No. 526,118, published Nov. 13, 1951. Class 37.

Western Tablet & Stationery Corporation, Dayton, Ohio. Correspondence and mailing envelopes. 555,848, Mar. 11; Serial No. 583,573, published Oct. 30, 1951. Class 37.

White & Son Limited, London, England. Fresh fruits and vegetables. 292,846, renewed Mar. 29, 1952. O. G. Mar. 11. Class 46.

White-Washburne Company, Inc., Hinsdale, N. H. Toilet tissue. 556,037, Mar. 11; Serial No. 612,100, published Dec. 18, 1951. Class 37.

Whitney, F. A., Carriage Company, Leominster, Mass. Light vehicles. 201,754, Aug. 4, 1925. Republished Mar. 11. Class 19.

Wickbury, Ltd., New York, N. Y. Men's suits, top coats, overcoats, etc. 555,940, Mar. 11; Serial No. 605,188, published Dec. 11, 1951. Class 39.

Willson Products, Inc., Reading, Pa. Ophthalmic and protection lenses. 556,085, Mar. 11; Serial No. 617,172, published Nov. 20, 1951. Class 26.

Wilson, Madam Stacy: *See*—
Wilson, Stacy.

Wilson, Stacy, doing business under the name of Madam Stacy Wilson, Chicago, Ill. Hair cosmetics. 553,966, Mar. 11; Serial No. 608,443, published Nov. 6, 1951. Class 51.

Wine Growers Guild, Lodi, Calif. Wines. 555,986, Mar. 11; Serial No. 609,327, published Dec. 18, 1951. Class 47.

Winn and Lovett Grocery Company, Jacksonville, Fla. Salt codfish; smoked meat, etc. 555,791, Mar. 11; Serial No. 542,192, published Dec. 25, 1951. Class 46.

Wisconsin Farmer Company, Racine, Wis. Periodical publication. 555,845, Mar. 11; Serial No. 582,007, published Dec. 4, 1951. Class 38.

Yami Yogurt Products, Inc., Los Angeles, Calif. Milk food. 556,141, Mar. 11; Serial No. 613,315. Class 46.

Zanzar & Company: *See*—
Von Guggenberg, Nicholas.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Carbonaceous or graphitic liquid facings for sand molds. Penn-Rilton Company. 556,138, Mar. 11; Serial No. 608,375.

Dry carbonaceous and graphitic facings for metal-casting molds. Penn-Rilton Comapny. 556,137, Mar. 11; Serial No. 608,374.

Seed, Lawn, garden and farm. Chesmore Seed Co. 556,012–13, Mar. 11; Serial Nos. 610,832–3, published Nov. 20, 1951.

Seeds. Ferry-Morse Seed Co. 556,117, Mar. 11; Serial No. 579,921.

Seeds, Field and garden. Kuhlke Seed & Grain Company. 555,935, Mar. 11; Serial No. 604,726, published July 3, 1951.

CLASS 2

Bags, boxes and cartons. Waltham Bag & Paper Company. 556,123–4, Mar. 11; Serial Nos. 596,313–14.

Bags, Waterproof. Natco Products Corporation. 556,119, Mar. 11; Serial No. 583,769.

Condiment holders. V. A. Kasin. 556,096, Mar. 11; Serial No. 516,418.

Containers, Composite packaging. Milprint, Inc. 556,116, Mar. 11; Serial No. 578,816.

Receptacles, Vacuum cleaner dust. Eureka Vacuum Cleaner Company. 291,887, renewed Feb. 23, 1952. O. G. Mar. 11.

Trays or cartons, Collapsible. Sutherland Paper Company. 556,114, Mar. 11; Serial No. 564,977.

CLASS 3

Cases and bags, Sample. Knickerbocker Case Company. 84,781, re-renewed Jan. 2, 1952. O. G. Mar. 11.

Hand bags and carrying cases. Nathan Products Corporation. 556,118, Mar. 11; Serial No. 581,281.

CLASS 4

Wax, Self-polishing floor. Paradize Products Corporation. 555,905, Mar. 11; Serial No. 599,650, published Nov. 27, 1951.

Waxes, Paste and liquid, and self-polishing wax. The Butcher Polish Company. 555,895, Mar. 11; Serial No. 598,001, published Nov. 27, 1951.

CLASS 6

Alcoholic solvents. Commercial Solvents Corporation. 555,852, Mar. 11; Serial No. 585,431, published Aug. 8, 1950.

Bluing compound-water softener. Burlington Soap Company. 556,076, Mar. 11; Serial No. 614,538, published Dec. 18, 1951.

Chemical for use as a dyestuff assistant. Gallowhur Chemical Corporation. 556,057, Mar. 11; Serial No. 613,222, published Dec. 18, 1951.

Chemicals. Nox-Rust Chemical Corporation. 555,929, Mar. 11; Serial No. 603,644, published June 5, 1951.

Chemicals and chemical preparations. Chemco Photoproducts Company, Inc. 555,877, Mar. 11; Serial No. 592,546, published Nov. 13, 1951.

Chemicals and preparations thereof. General Aniline & Film Corporation. 555,869, Mar. 11; Serial No. 589,717, published Nov. 13, 1951.

Compressed combustible gas. Central Bottled Gas Co., Inc. 556,129, Mar. 11; Serial No. 600,030.

Disinfectant material. Kinnard, Incorporated. 556,073, Mar. 11; Serial No. 614,151, published Dec. 18, 1951.

Economic poisons. Douglas Chemical and Supply Company. 555,888–9, Mar. 11; Serial Nos. 595,125–6, published Nov. 13, 1951.

Insecticide. Chipman Chemical Engineering Co., Inc. 293,920, renewed May 10, 1952. O. G. Mar. 11.

Insecticides. Drac Manufacturing Co. 556,052, Mar. 11; Serial No. 612,995, published Dec. 18, 1951.

Insecticides. Regal Chemical Corporation. 555,796, Mar. 11; Serial No. 543,655, published Dec. 18, 1951.

Starch, Laundry. Clinton Foods Inc. 555,882, Mar. 11; Serial No. 593,109, published Dec. 18, 1951.

Substantially colorless fluorescent synthetic organic chemicals. Allied Chemical & Dye Corporation. 556,049, Mar. 11; Serial No. 612,722, published Dec. 18, 1951.

CLASS 7

Rope. Columbian Rope Company. 556,050, Mar. 11; Serial No. 612,731, published Dec. 18, 1951.

CLASS 8

Cigarette cases and pyrophoric cigarette lighters and combination cigarette cases and pyrophoric cigarette lighters. Evans Case Co. 556,122, Mar. 11; Serial No. 591,983.

Cigarette-papers. Maison Pierre Bardou Job. 37,640, renewed Jan. 14, 1952. O. G. Mar. 11.

CLASS 10

Fertilizers. Southern Fertilizer & Chemical Company. 555,967, Mar. 11; Serial No. 608,518, published Dec. 18, 1951.

CLASS 11

Carbon paper and typewriter ribbons. Mittag & Volger, Incorporated. 555,957, Mar. 11; Serial No. 607,679, published Nov. 27, 1951.

Carbon papers, inked ribbons, and stencil inks. L. C. Smith & Corona Typewriters, Inc. 556,115, Mar. 11; Serial No. 576,478.

CLASS 12

Insulating board, insulating lath, insulating tile, etc. Hawaiian Cane Products, Limited. 294,076, renewed May 17, 1952. O. G. Mar. 11.

CLASS 13

Aluminum sauce pans and cooking pots and fryers. Kewaskum Utensil Company. 556,074, Mar. 11; Serial No. 614,255, published Dec. 25, 1951.

Barb wire. Keystone Steel and Wire Company. 85,908, re-renewed Mar. 26, 1952. O. G. Mar. 11.

Bathroom accessories. The Fairfacts Company, Inc. 293,152, renewed Apr. 12, 1952. O. G. Mar. 11.

Cable fittings, Non-electric. Electric Steel Foundry. 556,040, Mar. 11; Serial No. 612,317, published Dec. 25, 1951.

Chains, Tire. Campbell Chain Company. 556,077, Mar. 11; Serial No. 614,649, published Dec. 18, 1951.

Check chain hooks, trapdoor latches, vestibule door latches, etc. Pullman-Standard Car Manufacturing Company. 555,942, Mar. 11; Serial No. 605,267, published Dec. 25, 1951.

Couplings. Snap-Tite, Inc. 555,911, Mar. 11; Serial No. 600,397, published Dec. 25, 1951.

Dispensers, Beverage. Jesse Harr Company. 555,824, Mar. 11; Serial No. 568,791, published Dec. 25, 1951.

Fastening devices, Metal. The Palnut Company. 556,075, Mar. 11; Serial No. 614,510, published Dec. 25, 1951.

Kitchen and housewares, base metal shoe racks, etc. Arkwright Merchandising Corporation. 555,826, Mar. 11; Serial No. 571,778, published Dec. 25, 1951.

Lead and brass stubs. V. Collins. 555,934, Mar. 11; Serial No. 604,567, published Dec. 25, 1951.

Lock nuts. Illinois Tool Works. 555,943, Mar. 11; Serial No. 605,421, published Dec. 25, 1951.

Nails. Nichols Wire & Aluminum Co. 556,064, Mar. 11; Serial No. 613,520, published Dec. 25, 1951.

Netting and screening materials. Flex-O-Glass, Inc. 556,079, Mar. 11; Serial No. 615,377, published Dec. 25, 1951.

Pipe hangers, pipe supports and accessories therefor. Fee & Mason Mfg. Co., Inc. 555,883, Mar. 11; Serial No. 593,269, published Dec. 18, 1951.

Plumbing, steam-fitting, gas fitting, and air and gas valves, etc. The Safety Car Heating and Lighting Company, Inc. 556,078, Mar. 11; Serial No. 615,026, published Dec. 25, 1951.

Screw pin shackles. Atlantic Steel Company. 555,901, Mar. 11; Serial No. 598,825, published Dec. 18, 1951.

Slide fasteners and parts thereof. Waldes Kohinoor, Inc. 555,899, Mar. 11; Serial No. 598,399, published Dec. 25, 1951.

Tube connectors. Key Company. 556,062, Mar. 11; Serial No. 613,464, published Dec. 25, 1951.

Valves, Relief. Henry Valve Company. 555,886, Mar. 11; Serial No. 593,988, published Dec. 18, 1951.

CLASS 15

Candles, Plain, molded, hand-dipped, decorative and art. Koppers Company, Inc. 555,879, Mar. 11; Serial No. 592,820, published Nov. 6, 1951.

Lubricating grease, All-purpose. The Standard Oil Company. 555,985, Mar. 11; Serial No. 609,322, published Nov. 6, 1951.

Oils and greases, Lubricating. The Birmingham Small Arms Company Limited. 555,912, Mar. 11; Serial No. 600,760, published Nov. 6, 1951.

CLASS 16

Enamel, Cement floor. Hillyard Chemical Company. 294,010, renewed May 10, 1952. O. G. Mar. 11.

Paint, Metal. Hillyard Chemical Company. 294,011, renewed May 10, 1952. O. G. Mar. 11.

Paints, Exterior and interior ready mixed, enamels, and paint or similar type primers, etc. Atlas Paint & Varnish Co., Inc. 556,111, Mar. 11; Serial No. 561,607.

CLASS 17

Snuff. Illingworth's Snuffs Limited. 555,893, Mar. 11; Serial No. 596,727, published Sept. 25, 1951.

CLASS 18

Enzyme inhibitor. True-Health Chemical Products Corporation. 555,952, Mar. 11; Serial No. 607,103, published Nov. 6, 1951.

Fat-soluble vitamin concentrates. Nopco Chemical Company. 555,922, Mar. 11; Serial No. 602,619, published Nov. 6, 1951.

Fat-soluble vitamin-containing glyceride oils. Nopco Chemical Company. 555,923–4, Mar. 11; Serial Nos. 602,620–1, published Nov. 6, 1951.

Glycerine tablets. Pine Bros. Inc. 556,032, Mar. 11; Serial No. 611,807, published Nov. 13, 1951.

High potency vitamin-containing solids. Nopco Chemical Company. 555,947–8, Mar. 11; Serial Nos. 606,788–9, published Nov. 6, 1951.

Liniment. G. T. Funk. 556,014, Mar. 11; Serial No. 610,899, published Nov. 6, 1951.

Medicated foot cream. Dione Associates. 555,984, Mar. 11; Serial No. 609,169, published Nov. 6, 1951.

Medicinal hormone preparation. Laboratoires Francais de Chimiotherapie. 556,019, Mar. 11; Serial No. 611,284, published Nov. 6, 1951.

Medicinal preparation. Ferris & Ferris. 556,016, Mar. 11; Serial No. 611,083, published Nov. 6, 1951.

Medicinal preparation. The Mara Laboratories, Inc. 556,017, Mar. 11; Serial No. 611,231, published Nov. 6, 1951.

Medicinal preparations. Dr. L. D. Le Gear Medicine Company. 293,263, renewed Apr. 19, 1952. O. G. Mar. 11.

Preparation for external application. W. A. Tompkins. 555,990, Mar. 11; Serial No. 609,518, published Nov. 13, 1951.

Preparation for use in the treatment of dermatological conditions. Smith, Kline & French Laboratories. 556,029, Mar. 11; Serial No. 611,660, published Nov. 13, 1951.

Products used as mixing ingredients in poultry, livestock and other animal feeds and containing vitamin B_{12}. Schenley Laboratories, Inc. 556,020, Mar. 11; Serial No. 611,314, published Nov. 13, 1951.

Products used as mixing ingredients in poultry, livestock and other animal feeds and containing vitamin B_{12}. Schenley Laboratories, Inc. 556,021, Mar. 11; Serial No. 611,315, published Nov. 6, 1951.

Stomach-bitters. The Hostetter Company. 84,232, renewed Nov. 21, 1951. O. G. Mar. 11.

Vitamin capsules and tablets. Jefferson Pharmacal Company. 556,027, Mar. 11; Serial No. 611,647, published Nov. 13, 1951.

CLASS 19

Aircraft flotation system. Walter Kidde & Company, Inc. 290,393, renewed Jan. 5, 1952. O. G. Mar. 11.

Vehicles, Light. F. A. Whitney Carriage Company. 201,754, Aug. 4, 1925. Republished Mar. 11.

CLASS 21

Generators, motors, domestic lighting plants, etc. Fairbanks, Morse & Co. 300,649, Jan. 31, 1933. Republished Mar. 11.

Welding machines, Electric. Resistance Welder Corporation. 429,373, Apr. 29, 1947. Republished Mar. 11.

CLASS 23

Centrifuges. The De Laval Separator Company. 556,102, Mar. 11; Serial No. 554,303.

Hand appliance for mounting and demounting automobile wheels. W. J. Cormay. 556,113, Mar. 11; Serial No. 564,192.

Harvesting machine. H. D. Hume Company. 556,098, Mar. 11; Serial No. 541,793.

Hoe, Multi-purpose garden. L. H. Carufel Co. 556,136, Mar. 11; Serial No. 606,751.

Jordan machines and fillings therefor. E. D. Jones & Sons Company. 556,103, Mar. 11; Serial No. 554,793.

Machines for aerating cream akin to whipped cream and similar products. National Aerating Process Company. 292,073, renewed Mar. 1, 1952. O. G. Mar. 11.

Pulley wheels. The Formica Company. 556,143, Mar. 11; Serial No. 613,809.

CLASS 26

Apparatus for continuously and automatically totalizing the weight of material. Builders Iron Foundry. 555,963, Mar. 11; Serial No. 608,145, published Nov. 20, 1951.

Gages, Saw, pressure correcting gas meters, fluid meters, etc. Rockwell Manufacturing Company. 556,024, Mar. 11; Serial No. 611,541, published Nov. 20, 1951.

Instruments for recording the force of an impact. Cleveland Impact Recorder, Inc. 555,865, Mar. 11; Serial No. 588,740, published Nov. 20, 1951.

Lenses, Ophthalmic and protection. Willson Products, Inc. 556,085, Mar. 11; Serial No. 617,172, published Nov. 20, 1951.

Liquid, steam, and gas flow controllers, etc. Penn Industrial Instrument Corporation. 555,825, Mar. 11; Serial No. 571,456, published Nov. 20, 1951.

Measuring and dispensing pumps, Oil, liquid, and fuel. Tokheim Oil Tank and Pump Company. 555,841, Mar. 11; Serial No. 579,522, published Nov. 27, 1951.

Measuring liquid dispensers. AutoBar Corporation. 555,832, Mar. 11; Serial No. 575,816, published Nov. 20, 1951.

Measuring pump, Controlled volume. Milton Roy Company. 556,051, Mar. 11; Serial No. 612,827, published Nov. 20, 1951.

Measuring pumps, Gasoline and oil storage, measuring grease pumps, and weighing scales. National Store Specialty Co. 555,857, Mar. 11; Serial No. 586,647, published Nov. 20, 1951.

Rafter framing squares, try squares, and all squares, etc. Aldens, Inc. 556,069, Mar. 11; Serial No. 613,697, published Nov. 20, 1951.

Self-measuring fuel pumps. The Wayne Pump Company. 555,778, Mar. 11; Serial No. 505,022, published Nov. 20, 1951.

Sound pressure recording instruments, audio-frequency curve tracing instruments, etc. W. R. Dresser. 555,842, Mar. 11; Serial No. 580,290, published Nov. 20, 1951.

CLASS 27

Watch movements. Elgin National Watch Company. 82,972, Aug. 8, 1911. Republished Mar. 11.

Watches, watch movements, and parts of watches. The Ball Company. 556,007, Mar. 11; Serial No. 610,608, published Nov. 13, 1951.

CLASS 28

Cuff links, tie bars, collar pins, and key chains, Gold-plated. Shields, Inc. of Attleboro, Mass. 556,142, Mar. 11; Serial No. 613,528.

Flatware, Sterling silver. The R. Wallace & Sons Manfg. Co. 556,097, Mar. 11; Serial No. 534,402.

Watch guards and retracting key chains. Ketcham & McDougall, Inc. 555,834, Mar. 11; Serial No. 576,812, published Nov. 6, 1951.

CLASS 29

Brooms, Steel wire drag, fibre drag brooms, street push brooms, etc. Van Brush Manufacturing Co. 555,909, Mar. 11; Serial No. 600,094, published Dec. 4, 1951.

Brush-like cloth swabs, Elongated. L. McLean. 556,109, Mar. 11; Serial No. 559,167.

Brushes, Artist's. H. M. Rosen. 556,022, Mar. 11; Serial No. 611,492, published Dec. 4, 1951.

Brushes, Fountain type dishwashing. Dishmaster Corporation. 555,937, Mar. 11; Serial No. 604,774, published Dec. 4, 1951.

Curved floor squeegees, straight floor squeegees, curved floor brushes, etc. J. M. Oberti. 556,002, Mar. 11; Serial No. 610,225, published Nov. 6, 1951.

CLASS 30

Dinnerware, Ceramic. National Silver Company. 556,126, Mar. 11; Serial No. 598,096.

Dishware, Vitrified. Shenango Pottery Company. 555,915, Mar. 11; Serial No. 601,574, published Nov. 6, 1951.

CLASS 31

Filter discs, Milk. Schwartz Manufacturing Company. 556,133, Mar. 11; Serial No. 604,863.

CLASS 35

Belting, Leather. E. F. Houghton & Co. 291,994, Mar. 1, 1932. Republished Mar. 11.

Packings and gaskets. Dresser Industries, Inc. 556,039, Mar. 11; Serial No. 612,314, published Dec. 25, 1951.

Tires, Automobile. Kelly-Springfield Tire Company. 291,996, renewed Mar. 1, 1952. O. G. Mar. 11.

CLASS 36

Clarinets, saxophones, baritones, etc. Chesbro Music Co. 292,058, renewed Mar. 1, 1952. O. G. Mar. 11.

CLASS 37

Calendar and notebook, Combination automobile. H. P. Shedd. 555,964, Mar. 11; Serial No. 608,436, published Dec. 11, 1951.

Chalk, Tailors'. J. Hershkowits, Inc. 555,919, Mar. 11; Serial No. 601,911, published Dec. 11, 1951.

Coasters in the nature of blotter tablets. G. D. Champion. 555,976, Mar. 11; Serial No. 609,026, published Dec. 11, 1951.

Desk engagement books, Leather bound, leather bound desk diaries, etc. T. J. & J. Smith Limited. 555,908, Mar. 11; Serial No. 600,089, published Dec. 18, 1951.

Envelopes, Correspondence and mailing. Mail-Well Envelope Company. 555,939, Mar. 11; Serial No. 604,979, published Dec. 4, 1951.

Envelopes, Correspondence and mailing. Western Tablet & Stationery Corporation. 555,848, Mar. 11; Serial No. 583,573, published Oct. 30, 1951.

Facial tissues. Sitroux Incorporated. 555,863, Mar. 11; Serial No. 587,827, published Oct. 30, 1951.

Filing guides and indexes, Vertical, filing folders, etc. The Shaw-Walker Company. 555,843, Mar. 11; Serial No. 581,834, published Dec. 4, 1951.

Folders. L. E. Minkin. 555,881, Mar. 11; Serial No. 593,007, published Nov. 27, 1951.

Ink tubes, Ball-pointed. Gemeco, Inc. 555,960, Mar. 11; Serial No. 607,950, published Dec. 11, 1951.

Kraft liner board. Southern Paperboard Corporation. 555,878, Mar. 11; Serial No. 592,672, published Oct. 30, 1951.

Memo pads, desk calendars, paper weights, and desk pen sets. Syracuse Ornamental Co., Inc. 555,790, Mar. 11; Serial No. 538,050, published Dec. 4, 1951.

Memorandum book, Partially printed. D. Kaltman & Co., Inc. 555,876, Mar. 11; Serial No. 592,081, published Dec. 11, 1951.

Memorandum books, address books, bridge pads, etc. Simplex Binder Co. 555,831, Mar. 11; Serial No. 575,495, published Dec. 11, 1951.

Memorandum pads. B. Anderson. 555,873, Mar. 11; Serial No. 591,604, published Dec. 4, 1951.

Paper, V-1 converting. Minnesota and Ontario Paper Company. 555,835, Mar. 11; Serial No. 577,205, published Nov. 27, 1951.

Paper bands, Partially printed. Economy Tablet & Paper Co. 555,868, Mar. 11; Serial No. 589,406, published Nov. 13, 1951.

Paper bibs, Infants' disposable. H. S. McClure. 555,968, Mar. 11; Serial No. 608,559, published Dec. 11, 1951.

Paper, Bleached and unbleached sulphate kraft wrapping. Southern Advance Bag & Paper Co. Inc. 555,921, Mar. 11; Serial No. 602,292, published Dec. 4, 1951.

Paper, Bond. The Alling & Cory Company. 555,959, Mar. 11; Serial No. 607,918, published Dec. 4, 1951.

Paper, Drawing. B. K. Elliott Company. 555,872, Mar. 11; Serial No. 591,464, published Dec. 4, 1951.

Paper, Gift wrapping. Norcross, Inc. 556,041, Mar. 11; Serial No. 612,344, published Dec. 25, 1951.

Paper, Loose writing. Western Tablet & Stationery Corporation. 555,782, Mar. 11; Serial No. 526,080, published Dec. 11, 1951.

Paper napkins and paper garment hanger covers. Protecto Products Co., Inc. 555,840, Mar. 11; Serial No. 578,825, published Oct. 30, 1951.

Paper office supplies, Various, and various articles of stationery. Ennis Tag & Salesbook Company. 555,933, Mar. 11; Serial No. 604,472, published Dec. 4, 1951.

Paper, Printing. Tileston and Hollingsworth Company. 555,991–2, Mar. 11; Serial Nos. 609,372–3, published Dec. 4, 1951.

Paper, Printing; writing paper, box and book cover paper, etc. The Central Ohio Paper Company. 556,045, Mar. 11; Serial No. 612,442, published Dec. 25, 1951.

Paper tablets. Western Tablet & Stationery Corporation. 555,781, Mar. 11; Serial No. 526,057, published Nov. 13, 1951.

Paper tablets, Western Tablet & Stationery Corporation. 555,783, Mar. 11; Serial No. 526,118, published Nov. 13, 1951.

Paper, Toilet. Fort Howard Paper Company. 555,797, Mar. 11; Serial No. 546,215, published Nov. 27, 1951.

Paper towels. Fort Howard Paper Company. 555,792, Mar. 11; Serial No. 543,162, published Dec. 11, 1951.

Paper, Wall. Star-Peerless Wall Paper Mills. 555,859, Mar. 11; Serial No. 587,404, published Oct. 30, 1951.

Paper, Waxed. Nashua Gummed and Coated Paper Company. 555,833, Mar. 11; Serial No. 585,662, published Dec. 4, 1951.

Paper, Wrapping. Crown Zellerbach Corporation. 555,784, Mar. 11; Serial No. 527,187, published Nov. 13, 1951.

Paper, Wrapping, and butchers' paper. Gulf States Paper Corporation. 555,925, Mar. 11; Serial No. 603,234, published Nov. 20, 1951.

Paper, Writing, and mailing envelopes. Puritan Stationery Company, Inc. 556,010, Mar. 11; Serial No. 610,715, published Nov. 13, 1951.

Paper, Writing, note paper, correspondence and mailing envelopes. Carmelle, Inc. 555,962, Mar. 11; Serial No. 607,981, published Dec. 11, 1951.

Paper, Writing, printing paper, bristol and paper of high strength. The Sorg Paper Company. 555,780, Mar. 11; Serial No. 525,964, published Dec. 11, 1951.

Paper, Writing, typewriter and printing. Valley Paper Company. 555,785, Mar. 11; Serial No. 527,323, published Sept. 13, 1949.

Papers, Packaging and wrapping. Minnesota and Ontario Paper Company. 556,028, Mar. 11; Serial No. 611,650, published Dec. 4, 1951.

Papeteries. Western Tablet & Stationery Corporation. 444,670, Mar. 11; Serial No. 526,165, published Oct. 30, 1951.

Partially printed data card. E. V. Dinneen. 555,950, Mar. 11; Serial No. 606,971, published Nov. 27, 1951.

Partially printed forms, and on binders and covers for enclosing forms. Charles R. Hadley Company. 555,916, Mar. 11; Serial No. 601,727, published Oct. 30, 1951.

Pencils and ball point pens. E. S. Levinson. 555,970, Mar. 11; Serial No. 608,762, published Dec. 11, 1951.

Pencils, Ball point ink. The Framar Mfg. Co. 555,874, Mar. 11; Serial No. 591,923, published Nov. 13, 1951.

Pencils, Colored. Eberhard Faber Pencil Company. 556,044, Mar. 11; Serial No. 612,391, published Dec. 25, 1951.

Pencils, Mechanical. Listo Pencil Corporation. 555,944, Mar. 11; Serial No. 605,863, published Dec. 11, 1951.

Pencils, Mechanical. O. Morris. 555,871, Mar. 11; Serial No. 590,907, published Dec. 11, 1951.

Pencils, Wood encased lead. Eagle Pencil Company. 555,800, Mar. 11; Serial No. 531,249, published Dec. 25, 1951.

Pens, Fountain. Robert J. Burnham, Inc. 555,945, Mar. 11; Serial No. 606,410, published Dec. 11, 1951.

Pens, Fountain, and mechanical pencils. Oak Ridge Manufacturing Company. 555,814, Mar. 11; Serial No. 563,357, published Oct. 30, 1951.

Photographic print mounts. F. D. Fisher. 555,896, Mar. 11; Serial No. 598,009, published Dec. 4, 1951.

Printed merchandise wrappers. Shellmar Products Corporation. 555,953, Mar. 11; Serial No. 607,238, published Dec. 11, 1951.

Record books, Watch repair. Hammel, Riglander & Co., Inc. 555,830, Mar. 11; Serial No. 574,700, published Nov. 13, 1951.

Record cards, Visible, index cards and dividers and signals for card indexes. Acme Visible Records, Inc. 555,860, Mar. 11; Serial No. 587,435, published Nov. 27, 1951.

Refrigeration packaging products—namely wrapping paper. International Harvester Company. 555,917, Mar. 11; Serial No. 601,798, published Dec. 18, 1951.

Refrigeration packaging products—namely wrapping paper. International Harvester Company. 555,918, Mar. 11; Serial No. 601,801, published Dec. 18, 1951.

Stationery. The McBee Company. 555,794, Mar. 11; Serial No. 543,629, published Dec. 11, 1951.

Stationery, letter paper, leaves for looseleaf files, etc. The McBee Company. 555,793, Mar. 11; Serial No. 543,628, published Dec. 11, 1951.

Stationery, letter paper, leaves for looseleaf files, etc. The McBee Company. 555,795, Mar. 11; Serial No. 543,630, published Dec. 11, 1951.

Tablets, blank books, memorandum books, etc. F. L. Russell Corporation. 555,890, Mar. 11; Serial No. 595,418, published Dec. 11, 1951.

Tickets, tags and labels, Price marking. The Monarch Marking System Company. 555,969, Mar. 11; Serial No. 608,662, published Dec. 11, 1951.

Tissue, Toilet. Crown Zellerbach Corporation. 556,005–6, Mar. 11; Serial Nos. 610,511–12, published Nov. 13, 1951.

Tissue, Toilet. White-Washburne Company, Inc. 556,037, Mar. 11; Serial No. 612,100, published Dec. 18, 1951.

Wrappers, Cellulosic. Shellmar Products Corporation. 555,779, Mar. 11; Serial No. 505,773, published Dec. 4, 1951.

CLASS 38

Books. The Literary Guild of America, Inc. 555,829, Mar. 11; Serial No. 573,327, published Dec. 4, 1951.

Cartoon section of newspapers and other publications. The Register and Tribune Company. 556,072, Mar. 11; Serial No. 613,824, published Dec. 25, 1951.

Cartoons. V. J. Herman. 556,059, Mar. 11; Serial No. 613,294, published Dec. 11, 1951.

Comic strips. NEA Service, Inc. 555,999, Mar. 11; Serial No. 610,018, published Dec. 18, 1951.

Magazine. New York Herald Tribune Inc. 555,998, Mar. 11; Serial No. 609,980, published Dec. 11, 1951.

Magazine and a cartoon strip. Fables Publishing Co., Inc. 556,060, Mar. 11; Serial No. 613,324, published Dec. 11, 1951.

Magazine and for a cartoon strip. L. L. Publishing Co., Inc. 556,053, Mar. 11; Serial No. 613,009, published Dec. 11, 1951.

Magazine feature, section or department. Hearst Magazines Inc. 556,046, Mar. 11; Serial No. 612,614, published Dec. 4, 1951.

Magazine, Monthly. T. Dreier. 556,034, Mar. 11; Serial No. 612,007, published Dec. 11, 1951.

Magazines, publications, catalogues, etc. McCall Corporation. 555,927, Mar. 11; Serial No. 603,486, published Dec. 11, 1951.

Newspaper and magazine feature or column. The Register and Tribune Company. 556,071, Mar. 11; Serial No. 613,823, published Dec. 25, 1951.

Newspaper column. The McNaught Syndicate, Inc. 556,035, Mar. 11; Serial No. 612,025, published Dec. 4, 1951.

Periodical. North American Aviation, Inc. 555,982, Mar. 11; Serial No. 609,138, published Dec. 18, 1951.

Periodical. R. H. Porter. 556,009, Mar. 11; Serial No. 610,713, published Dec. 25, 1951.

Printed labels. Tompkins' Label Service. 555,971–2, Mar. 11; Serial Nos. 608,772–3, published Dec. 25, 1951.

Publication. E. S. C. Coppock. 556,043, Mar. 11; Serial No. 612,387, published Dec. 25, 1951.

Publication. United Feature Syndicate, Inc. 555,846, Mar. 11; Serial No. 582,374, published Dec. 18, 1951.

Publication, Monthly. United Truck Owners of America, Inc. 555,965, Mar. 11; Serial No. 608,442, published Dec. 25, 1951.

Publication, Periodical. Wisconsin Farmer Company. 555,845, Mar. 11; Serial No. 582,007, published Dec. 4, 1951.

Publication, Weekly periodical. Boyme and Sherman. 556,025, Mar. 11; Serial No. 611,597, published Dec. 25, 1951.

Publications. National Spiritual Assembly of the Baha'is of the United States. 556,004, Mar. 11; Serial No. 610,452, published Dec. 11, 1951.

Publications, bulletins and picture post cards. Western Air Lines, Inc. 555,807, Mar. 11; Serial No. 559,762, published Dec. 4, 1951.

Section of a periodical. McGraw-Hill Publishing Company, Inc. 555,993, Mar. 11; Serial No. 609,656, published Dec. 11, 1951.

Section of periodically issued reports. Edward Thompson Company. 556,055, Mar. 11; Serial No. 613,112, published Dec. 18, 1951.

Series of cartoons or comic strips. The Hearst Corporation. 556,061, Mar. 11; Serial No. 613,450, published Dec. 25, 1951.

CLASS 39

Anklets, aprons, infants' bands, etc., Fabric. The Emporium Capwell Company. 555,858, Mar. 11; Serial No. 586,743, published Nov. 27, 1951.

Brassières. Beau-Bra Foundations, Inc. 556,065, Mar. 11; Serial No. 613,554, published Dec. 18, 1951.

Brassières, corsets, corselettes, etc., Ladies' and misses'. Corona Corset Corp. 556,038, Mar. 11; Serial No. 612,156, published Dec. 18, 1951.

Brassières, girdles, and combination brassières, and corsets. Graceform-Camlin Corset Co., Inc. 556,036, Mar. 11; Serial No. 612,070, published Dec. 18, 1951.

Caps, Bathing. Pretty Products, Inc. 555,856, Mar. 11; Serial No. 586,310, published Nov. 27, 1951.

Caps, shoes, stockings, etc. Universal Sports Corporation. 555,930, Mar. 11; Serial No. 603,823, published Nov. 27, 1951.

Chemises, princess slips, bloomers, etc., Ladies'. I. Schneierson & Sons, Inc. 556,107, Mar. 11; Serial No. 558,517.

Chemises, princess slips, bloomers, etc., Ladies'. I. Schneierson & Sons, Inc. 556,110, Mar. 11; Serial No. 558,936.

Chemises, princess slips, step-ins, etc., Ladies'. I. Schneierson & Sons, Inc. 556,105–6, Mar. 11; Serial Nos. 558,515–16.

Coats, Fur, fur jackets and fur capes. Levy-Theisen, Inc. 555,892, Mar. 11; Serial No. 596,102, published Nov. 27, 1951.

Coats, Sport, and overcoats for men and sport suits for men. Mavest Inc. 555,887, Mar. 11; Serial No. 594,854, published Feb. 13, 1951.

Corsets, corselets, girdles, etc. Vanity Corset Company, Inc. 556,067, Mar. 11; Serial No. 613,687, published Dec. 18, 1951.

Dress shirts and collars, and combinations thereof. M. H. Raab-Meyerhoff Co., Inc. 555,806, Mar. 11; Serial No. 559,546, published Nov. 27, 1951.

Dresses. G. & L. Manufacturing Co., Inc. 556,070, Mar. 11; Serial No. 613,707, published Dec. 18, 1951.

Dresses, evening gowns, coats, suits, and furs, Women's. Hartnell Norman, Limited. 555,811, Mar. 11; Serial No. 560,559, published Nov. 27, 1951.

Dresses, Ladies'. Kaplan Mattio & Son, Inc. 555,994, Mar. 11; Serial No. 609,684, published Dec. 18, 1951.

Dresses, Women's and misses'. Jordan Marsh Company. 556,056, Mar. 11; Serial No. 613,134, published Dec. 18, 1951.

Foundation garments, Ladies'. Crescent Corset Company, Inc. 556,063, Mar. 11; Serial No. 613,502, published Dec. 18, 1951.

Frocks, Misses' and ladies'. Rice-Stix, Inc. 556,042, Mar. 11; Serial No. 612,375, published Dec. 18, 1951.

Garments, Mink. Northwood Fur Farms. 555,906, Mar. 11; Serial No. 599,966, published Dec. 11, 1951.

Garments, Women's fur. David Benioff Brothers. 555,910, Mar. 11; Serial No. 600,252, published Dec. 11, 1951.

Girdles. Bestform Foundations, Inc. 556,058, Mar. 11; Serial No. 613,289, published Dec. 18, 1951.

Girdles, corsets and brassières. Vivette Foundations, Inc. 556,068, Mar. 11; Serial No. 613,688, published Dec. 18, 1951.

Gloves and mittens, Leather. Ideal Leather Manufacturing Company. 555,861, Mar. 11; Serial No. 587,613, published May 29, 1951.

Hats, Children's, infants' bonnets, and boys' caps. Harold J. Lehman, Inc. 555,902, Mar. 11; Serial No. 598,913, published Dec. 11, 1951.

Hats, Ladies', misses', and children's. Goldstein Millinery Company. 555,864, Mar. 11; Serial No. 587,869, published Dec. 11, 1951.

Hosiery. Hanes Hosiery Mills Company. 555,900, Mar. 11; Serial No. 598,724, published Dec. 18, 1951.

Hosiery. Newnan Hosiery Mills, Incorporated. 555,946, Mar. 11; Serial No. 606,433, published Dec. 11, 1951.

Hosiery for men, women, and children. Owen Osborne Hosiery Mills, Inc. 444,669, Mar. 11; Serial No. 508,065, published Dec. 18, 1951.

Hosiery, Men's, women's, and children's. Lehigh Silk Hosiery Mills, Inc. 201,200, July 21, 1925. Republished Mar. 11.

Hosiery, Women's, and sweaters for men and women. Lee I. Robinson Hosiery Mills, Inc. 556,125, Mar. 11; Serial No. 596,362.

Necktie, Bow. B. J. Lange. 555,847, Mar. 11; Serial No. 583,350, published Nov. 27, 1951.

Neckties, cravats, scarves, etc. C. A. Limbach. 555,875, Mar. 11; Serial No. 591,991, published Dec. 11, 1951.

Neckties, Men's. Countess Mara, Inc. 555,849, Mar. 11; Serial No. 584,573, published Sept. 26, 1950.

Overalls and sunsuits, Infants'. Gro Togs Inc. 556,131, Mar. 11; Serial No. 601,828.

Pajamas, Men's and boys'. Lubin-Weeker Co., Inc. 556,033, Mar. 11; Serial No. 611,847, published Dec. 11, 1951.

Princess slips, nightgowns, pajamas, etc., Ladies' and children's. I. Schneierson & Sons. 556,108 Mar. 11; Serial No. 558,934.

Robes, Bath, lounging and beach. Harry Matsil & Sons. 555,836, Mar. 11; Serial No. 577,534, published Dec. 4, 1951.

Shirts, J. R. Alongi. 555,898, Mar. 11; Serial No. 598,288, published Dec. 11, 1951.

Shirts, Flannel. Reliance Manufacturing Company. 555,914, Mar. 11; Serial No. 601,467, published Feb. 13, 1951.

Shirts, Men's and boys' dress and work. Ely & Walker Dry Goods Company. 555,850, Mar. 11; Serial No. 584,717, published Nov. 27, 1951.

Shirts, Men's dress, negligee, and work. M. H. Raab Co., Inc. 289,706, renewed Dec. 1, 1951. O. G. Mar. 11.

Shirts, Men's outer. Le Roy Shirt Co. Inc. 555,822, Mar. 11; Serial No. 568,642, published Dec. 11, 1951.

Shirts, Men's sport. Skyline Co. 555,809, Mar. 11; Serial No. 560,297, published Dec. 11, 1951.

Shirts, neckties, sport coats, etc. Men's and boys' negligee. Cripps Mens Wear, Inc. 555,987, Mar. 11; Serial No. 609,398, published Dec. 11, 1951.

Shirts, Outer. Cluett, Peabody & Co., Inc. 555,854; Mar. 11; Serial No. 585,744, published Nov. 27, 1951.

Shoes, Women's leather, fabric, and combination leather-fabric. Hersfeld's, Inc. 293,984, renewed May 10, 1952. O. G. Mar. 11.

Shorts, slacks, blouses, etc., Women's and children's. Betty Brooks Co. 555,983, Mar. 11; Serial No. 609,162, published Dec. 18, 1951.

Skirts, woven sport skirts, dresses, etc., Ladies' and girls' knit sport. F. A. Preddy. 555,949, Mar. 11; Serial No. 606,805, published Dec. 18, 1951.

Suits and jackets, Men's. Brand of Texas, Inc. 556,031, Mar. 11; Serial No. 611,681, published Dec. 11, 1951.

Suits and sweaters, Ladies' and girls', and ladies' and misses' dresses, skirts, etc. Marinette Knitting Mills. 555,818, Mar. 11; Serial No. 565,946, published Nov. 27, 1951.

Suits, Bathing. Catalina, Inc. 555,844, Mar. 11; Serial No. 581,863, published Nov. 27, 1951.

Suits, coats, sport coats, etc., Men's and young men's. Marx & Haas-Korrekt Company. 555,787, Mar. 11; Serial No. 529,665, published Oct. 24, 1950.

Suits, top coats, overcoats, etc., Men's. Scotch Tailors, Inc. 556,101, Mar. 11; Serial No. 551,051.

Suits, top coats, overcoats, etc., Men's. Wickbury, Ltd. 555,940, Mar. 11; Serial No. 605,188, published Dec. 11, 1951.

Trousers and slacks, Men's and boys'. H. Siegfried & Sons, Inc. 556,011, Mar. 11; Serial No. 610,805, published Nov. 27, 1951.

Trousers, knickers, breeches, etc., Men's. General Sportwear Co., Inc. 556,112, Mar. 11; Serial No. 563,782.

Underwear. Mandel & Cohen. 293,728, renewed May 3, 1952. O. G. Mar. 11.

Underwear and outerwear for men, women, and children. South Carolina Mills. 555,938, Mar. 11; Serial No. 604,865, published Dec. 11, 1951.

Wearing apparel, Ladies'. Sam Elias, Inc. 55,951, Mar. 11; Serial No. 607,009, published Dec. 18, 1951.

Wearing apparel, Women's and girls'. Foster-Hochberg Manufacturing Company, Inc. 556,023, Mar. 11; Serial No. 611,515, published Dec. 18, 1951.

CLASS 40

Buttons, hat ornaments, cuff-links, etc. Happé Products Limited. 555,996, Mar. 11; Serial No. 609,973, published Dec. 25, 1951.

Shoe laces. Cecil Corporation. 555,805, Mar. 11; Serial No. 558,692, published Dec. 18, 1951.

CLASS 42

Carpets and rugs, Textile. C. H. Masland & Sons. 556,084, Mar. 11; Serial No. 616,798, published Dec. 25, 1951.

Cloth in the piece. David & John Anderson Limited. 555,955, Mar. 11; Serial No. 607,535, published Dec. 25, 1951.

Fabrics. Farrington Texol Corporation. 556,140, Mar. 11; Serial No. 609,544.

Fabrics, Corduroy. J. Bernstein & Son. 555,884, Mar. 11; Serial No. 593,526, published Mar. 13, 1951.

Fabrics, Textile. Burlington Mills Corporation. 556,080, Mar. 11; Serial No. 616,410, published Dec. 25, 1951.

Piece goods, Cotton. Bates Manufacturing Company. 86,025, re-renewed Apr. 9, 1952. O. G. Mar. 11.

Piece goods, Cotton, and mixtures of cotton and silk piece goods. Burton Brothers & Co. Inc. 290,601, renewed Jan. 12, 1952. O. G. Mar. 11.

Piece goods, Rayon. J. Rosenhols, Inc. 556,128, Mar. 11; Serial No. 599,976.

Piece goods, Woolen. A. D. Juilliard & Co., Inc. 556,081, Mar. 11; Serial No. 616,487, published Dec. 25, 1951.

Piece goods, Woolen. A. D. Juilliard & Co., Inc. 556,082, Mar. 11; Serial No. 616,496, published Dec. 25, 1951.

Piece goods, Woolen. A. D. Juilliard & Co., Inc. 556,083, Mar. 11; Serial No. 616,498, published Dec. 25, 1951.
Piece goods, Woolen. Wawak Company, Inc. 555,799, Mar. 11; Serial No. 549,772, published June 26, 1951.
Plastic film and plastic coated fabrics. M. Lowenstein & Sons, Inc. 555,835, Mar. 11; Serial No. 586,039, published Dec. 25, 1951.
Rugs and runners, Textile. Amsterdam Textiles, Inc. 556,144, Mar. 11; Serial No. 615,519.
Shelf lining and edging combination, made of plastic film. The Ullman Company, Inc. 556,134, Mar. 11; Serial No. 604,871.
Shirtings in the piece, Men's cotton, and cotton textile fabrics. Alfred L. Helwith & Co., Inc. 293,464, renewed Apr. 26, 1952. O. G. Mar. 11.
Wall coverings made of rayon and cotton. United Wallpaper, Inc. 555,810, Mar. 11; Serial No. 560,508, published Sept. 5, 1950.

CLASS 43

Yarns, Synthetic. The Ensign-Bickford Co. 556,048, Mar. 11; Serial No. 612,652, published Dec. 18, 1951.

CLASS 44

Dental impression trays. The L. D. Caulk Company. 556,015, Mar. 11; Serial No. 611,056, published Nov. 20, 1951.
Dental tools. A. Pfingst. 292,136, renewed Mar. 1, 1952. O. G. Mar. 11.
Hospital and sick room supplies. Goodman-Kleiner Co., Inc. 555,823, Mar. 11; Serial No. 568,730, published Oct. 30, 1951.
Nail files. The Henkel-Clauss Company. 556,099, Mar. 11; Serial No. 546,701.
Nasal tampons. Johnson & Johnson. 555,920, Mar. 11; Serial No. 601,923, published Nov. 6, 1951.
Vaginal diaphragm. Gray Fox Inc. 555,828, Mar. 11; Serial No. 572,302, published Nov. 6, 1951.

CLASS 45

Beverages, Nonalcoholic, maltless. Nehi Corporation. 556,003, Mar. 11; Serial No. 610,293, published Nov. 6, 1951.
Beverages, Non-alcoholic maltless. Vess Dry Company of Ohio. 555,776, Mar. 11; Serial No. 475,473, published Mar. 15, 1949.
Beverages, Nonalcoholic, noncereal, maltless carbonated. Clover Farm Stores Corporation. 555,802, Mar. 11; Serial No. 553,076, published Nov. 6, 1951.
Grape juice. Tea Garden Products Co. 555,862, Mar. 11; Serial No. 587,767, published Dec. 4, 1951.
Grape juice, Frozen concentrated. The Welch Grape Juice Company. 556,066, Mar. 11; Serial No. 613,579, published Dec. 18, 1951.
Soft drink and concentrate, Orange-flavored maltless. Nedick's, Inc. 555,903, Mar. 11; Serial No. 598,922, published Dec. 18, 1951.
Soft drink, Carbonated citrus-flavored. S. S. Eland. 555,788–9, Mar. 11; Serial Nos. 535,140–1, published Oct. 30, 1951.
Soft drinks and concentrates, Non-alcoholic maltless. Virginia Dare Extract Company, Inc. 555,958, Mar. 11; Serial No. 607,909, published Nov. 6, 1951.
Spring water. Pine Hill Crystal Spring Water Co. 555,870, Mar. 11; Serial No. 590,699, published Oct. 30, 1951.

CLASS 46

Artichokes, Fresh, bread, cakes, etc. J. Di Santo. 288,187, renewed Oct. 20, 1951. O. G. Mar. 11.
Candy. Cociana, Inc. 556,121, Mar. 11; Serial No. 590,488.
Canned apple sauce. Lyndonville Canning Company, Inc. 556,139, Mar. 11; Serial No. 609,304.
Canned fish products. Skandiakonserv, Hugo Hallgrens Konservfabriker Aktiebolag. 556,100, Mar. 11; Serial No. 548,873.
Canned fruits and canned vegetables. R. E. Cotter Company. 555,815, Mar. 11; Serial No. 563,844, published Nov. 20, 1951.
Canned fruits and vegetables, canned orange, grapefruit, and tomato juices, seafood, etc. Food Fair Stores, Inc. 555,817, Mar. 11; Serial No. 565,330, published Dec. 25, 1951.
Canned tomatoes. California Sanitary Canning Co. 120,832, Mar. 12, 1918. Republished Mar. 11.
Canned vegetables. Draper Brothers Inc. 556,001, Mar. 11; Serial No. 610,203, published Dec. 11, 1951.
Cheese. J. J. Giammalvo. 555,812, Mar. 11; Serial No. 561,233, published Dec. 18, 1951.
Codfish, Salt, smoked meat, etc. Winn and Lovett Grocery Company. 555,791, Mar. 11; Serial No. 542,192, published Dec. 25, 1951.
Feed, Sheep. Rogers Brothers Seed Company, Inc. 556,104, Mar. 11; Serial No. 556,697.
Flavoring extracts, Food. Food Fair Stores, Inc. 555,816, Mar. 11; Serial No. 565,329, published Dec. 18, 1951.
Flour, Wheat. Van Dusen Harrington Co. 555,798, Mar. 11; Serial No. 547,795, published Nov. 13, 1951.
Food. A. F. Sherley. 84,260, Nov. 21, 1911. Republished Mar. 11, 1952.
Food stuffs. Shirriff's Limited. 556,132, Mar. 11; Serial No. 603 313.
Frozen products. The Garden Gate Corporation. 555,885, Mar. 11; Serial No. 593,535, published Nov. 20, 1951.
Fruits and vegetables, Fresh. White & Son Limited. 292,846, renewed Mar. 29, 1952. O. G. Mar. 11.
Fruits, Fresh citrus. H. E. Stegle. 555,819, Mar. 11; Serial No. 567,157, published Dec. 18, 1951.
Fruits, Fresh deciduous, fresh citrus fruits. Simons & French Company, Incorporated. 291,142, Jan. 26, 1932. Republished Mar. 11.
Fruits, Fresh deciduous, fresh citrus fruits, etc. D. Bumstead. 292,224, renewed Mar. 8, 1952. O. G. Mar. 11.
Fruits, Fresh, dried deciduous fruits, frozen cooked deciduous fruits, etc. J. Mills Orchards Company. 555,907, Mar. 11; Serial No. 600,064, published Dec. 18, 1951.
Grapes, Processed. S and W Fine Foods, Inc. 555,837, Mar. 11; Serial No. 578,288, published May 15, 1951.
Ice cream cake roll and cake. Newly Weds Baking Co. 555,827, Mar. 11; Serial No. 572,041, published Dec. 18, 1951.
Milk food. Yami Yogurt Products, Inc. 556,141, Mar. 11; Serial No. 613,315.
Pickles, chili peppers, Italian style peppers, etc., Bottled. R. J. Stenzel. 556,145, Mar. 11; Serial No. 616,835.
Poultry, Dressed, and poultry products. Nagel Brothers. 555,988, Mar. 11; Serial No. 609,492, published Dec. 18, 1951.
Poultry mash and dairy and hog feeds. Nebraska Consolidated Mills Company. 556,054, Mar. 11; Serial No. 613,081, published Dec. 18, 1951.
Sauce, Table. F. Y. Hashiba. 83,332, re-renewed Sept. 5, 1951. O. G. Mar. 11.
Vegetables, Frozen fresh. G. N. Burcham. 556,047, Mar. 11; Serial No. 612,650, published Dec. 18, 1951.

CLASS 47

Champagne. Sovereign Importers, Ltd. 555,989, Mar. 11; Serial No. 609,497, published Nov. 27, 1951.
Wine. Instituto Nazionale per il Commercio Estero. 556,093, Mar. 11; Serial No. 560,895, published Dec. 18, 1951.
Wines. Di Giorgio Fruit Corporation. 555,867, Mar. 11; Serial No. 589,078, published Dec. 11, 1951.
Wines. Madrone Vineyards. 555,978–81, Mar. 11; Serial No. 609,038–41, published Oct. 30, 1951.
Wines. Monarch Wine Company of Ga. 555,932, Mar. 11; Serial No. 604,212, published Nov. 13, 1951.
Wines. Petri Wine Company. 555,777, Mar. 11; Serial No. 592,736, published Oct. 30, 1951.
Wines. C. Schilling Company. 555,838, Mar. 11; Serial No. 578,531, published May 2, 1950.
Wines. Wine Growers Guild. 555,986, Mar. 11; Serial No. 609,327, published Dec. 18, 1951.
Wines and champagnes. K. Arakelian, Inc. 555,961, Mar. 11; Serial No. 607,975, published Oct. 30, 1951.
Wines, Bottled. The Superior Beverage Company. 556,030, Mar. 11; Serial No. 611,664, published Nov. 27, 1951.

CLASS 48

Ale. Hampden Brewing Company. 391,632, Nov. 18, 1941. Republished Mar. 11.
Ale. Hampden Brewing Company. 395,603, June 2, 1942. Republished Mar. 11.
Ale. Jax Ice & Cold Storage Company. 555,803, Mar. 11; Serial No. 555,606, published Dec. 4, 1951.
Beer. August Wagner Breweries, Inc. 555,786, Mar. 11; Serial No. 527,803, published Dec. 11, 1951.
Beer. Bosch Brewing Company. 555,820, Mar. 11; Serial No. 567,181, published Nov. 13, 1951.
Beer. Pacific Brewing & Malting Co. 556,018, Mar. 11; Serial No. 611,237, published Dec. 18, 1951.
Beers, ales, and stouts. Hydes' Anvil Brewery Limited. 555,997, Mar. 11; Serial No. 609,977, published Nov. 20, 1951

CLASS 49

Alcoholic beverages. The Calvert Distilling Co. 555,936, Mar. 11; Serial No. 604,763, published Nov. 27, 1951.
Alcoholic beverages. Gallagher & Burton, Inc. 555,977, Mar. 11; Serial No. 609,034, published Oct. 30, 1951.
Alcoholic beverages. Hunter-Wilson Distilling Co., Inc. 555,866, Mar. 11; Serial No. 588,955, published Oct. 30, 1951.
Brandy. J. & F. Martell, Inc. 555,808, Mar. 11; Serial No. 560,121, published Oct. 30, 1951.
Brandy. J. & F. Martell, Inc. 555,941, Mar. 11; Serial No. 605,219, published Oct. 30, 1951.
Cordials or liqueurs. A. V. Stansfeld. 328,418, Sept. 24, 1935. Corrected. O. G. Mar. 11.
Liqueur, Apricot, blackberry liqueur, peppermint liqueur, etc. Cointreau Corporation. 555,801, Mar. 11; Serial No. 552,039, published Nov. 13, 1951.
Vodka. Hiram Walker & Sons, Inc. 555,926, Mar. 11; Serial No. 603,424, published Dec. 11, 1951.
Whiskey. Bellows & Company, Inc. 555,973, Mar. 11; Serial No. 608,808, published Oct. 30, 1951.
Whiskey. Bellows & Company, Inc. 555,974, Mar. 11; Serial No. 608,812, published Oct. 30, 1951.
Whiskey. Joseph S. Finch and Company. 556,000, Mar. 11; Serial No. 610,125, published Nov. 27, 1951.

Whiskey. M. B. Haddix. 555,813, Mar. 11; Serial No. 561,461, published Dec. 18, 1951.
Whisky, Scotch. Arthur Bell & Sons Ltd. 555,839, Mar. 11; Serial No. 578,675, published Nov. 13, 1951.

CLASS 50

Automobile ornaments. Bermo Industries, Inc. 555,954, Mar. 11; Serial No. 607,480, published Nov. 6, 1951.
Detachable kneeling pads. J. Krinick. 556,135, Mar. 11; Serial No. 606,303.
Felt insignia. J. H. Ferguson. 556,095, Mar. 11; Serial No. 500,799.
Laminated paper and foil bottle closures. Standard Cap and Seal Corporation. 555,897, Mar. 11; Serial No. 598,118, published Nov. 6, 1951.
Matrices for type bar casting machines. Mergenthaler Linotype Company. 292,530–2, renewed Mar. 15, 1952. O. G. Mar. 11.
Pennants, lapel buttons, All types. Roller Derby Associates. 555,913, Mar. 11; Serial No. 600,975, published Nov. 13, 1951.
Permanent and temporary key identification tags. P. O. Moore, Inc. 556,120, Mar. 11; Serial No. 588,315.
Plastic film. The Pantasote Company. 555,804, Mar. 11; Serial No. 555,620, published Nov. 6, 1951.
Plastic material. Samuel Moore & Company. 555,931, Mar. 11; Serial No. 603,936, published Nov. 6, 1951.
Stair and floor coverings. Industrial Synthetics Corporation. 555,894, Mar. 11; Serial No. 597,762, published Nov. 6, 1951.

CLASS 51

Cosmetic oils. Alexandra de Markoff Sales Corporation. 555,928, Mar. 11; Serial No. 603,625, published Nov. 6, 1951.
Cosmetics, Hair. S. Wilson. 555,966, Mar. 11; Serial No. 608,443, published Nov. 6, 1951.
Face powder. The Andrew Jergens Company. 555,833, Mar. 11; Serial No. 577,059, published Nov. 6, 1951.
Finishing creams, face lotions, astringents, etc. United Western Laboratories Inc. 555,821, Mar. 11; Serial No. 568,288, published Nov. 20, 1951.
Hair rinses. The Nestle-Le Mur Company. 556,130, Mar. 11; Serial No. 601,806.
Hair straightener, Liquid, and a liquid hair rinse lotion. Glo-an Products, Inc. 556,026, Mar. 11; Serial No. 611,606, published Nov. 13, 1951.
Liquid preparation to be used when combing the hair. I. Posner, Inc. 556,127, Mar. 11; Serial No. 598,752.
Lotion, Face. J. Jones. 555,956, Mar. 11; Serial No. 607,674, published Nov. 6, 1951.
Lotions, Hand. G. Barr and Company. 555,891, Mar. 11; Serial No. 595,935, published Nov. 6, 1951.
Perfume. N. von Guggenberg. 555,995, Mar. 11; Serial No. 609,894, published Nov. 6, 1951.
Perfume bases and perfumes. Givaudan-Delawanna, Inc. 555,904, Mar. 11; Serial No. 599,632, published Nov. 6, 1951.
Perfumes, toilet waters, perfume oil, etc. Syntomatic Corporation. 555,975, Mar. 11; Serial No. 609,009, published Nov. 13, 1951.
Preparations for the treatment of the hair and scalp. John H. Breck, Inc. 555,851, Mar. 11; Serial No. 585,011, published Nov. 6, 1951.
Toilet preparations. Girl Scouts of the United States of America. 556,008, Mar. 11; Serial No. 610,682, published Nov. 6, 1951.

CLASS 52

Liquid preparation for general household cleaning purposes. Clorox Chemical Co. 290,449, renewed Jan. 5, 1952. O. G. Mar. 11.
Solvent for cleaning air brake systems. Preventive Maintenance Company. 555,880, Mar. 11; Serial No. 592,933, published Dec. 18, 1951.
Washing and scouring agent. General Dyestuff Corporation. 291,215, Feb. 2, 1932. Republished Mar. 11.

CLASS 100

Stimulating and maintaining interest in the preservation and encouragement of barber shop quartet singing. The Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc. 556,094, Mar. 11; Serial No. 592,168, published Dec. 25, 1951.

CLASS 101

Accounting and bookkeeping services. Serv-A-Station, Inc. 556,088, Mar. 11; Serial No. 559,122, published Dec. 18, 1951.
Advertising services. Stemar Company, Inc. 556,089, Mar. 11; Serial No. 563,827, published Dec. 18, 1951.

CLASS 103

Structural contracting services. Cement Gun Company. 556,090, Mar. 11; Serial No. 585,215, published Dec. 18, 1951.

CLASS 104

Radio broadcasting services. Mutual Broadcasting System, Inc. 556,091–2, Mar. 11; Serial Nos. 612,466–7, published Dec. 25, 1951.

CLASS 105

Railway freight and passenger transportation services. Chicago and North Western Railway Company. 556,146, Mar. 11; Serial No. 528,051.

CLASS 106

Painting individual names on articles of clothing. D. S. Casey. 556,147, Mar. 11; Serial No. 597,510.

CLASS 107

Giving dance instructions. Dale Dance Studios, Inc. 556,087, Mar. 11; Serial No. 555,059, published Dec. 18, 1951.
Services rendered by a vocal group. Voice of Phophecy, Inc. 556,086, Mar. 11; Serial No. 552,022, published Dec. 18, 1951.

LIST OF PLANT PATENTEES

Connell, Hooper P., Baton Rouge, La. Camellia plant. 1,078, Mar. 11.
Corliss Bros., Inc., assignee: *See*—
Corliss, Clifford D.
Corliss, Clifford D., assignor to Corliss Bros., Inc., Gloucester, Mass. Euonymus fortunei plant. 1,079, Mar. 11.
Ghio, Louis, San Francisco, Calif. Saintpaulia or African violet plant. 1,077, Mar. 11.

LIST OF DESIGN PATENTEES

Apple, Edward M.: *See*—
Rowser, Earl C., and Apple.
Atkins, Allen L., Chicago, Ill. Toy vacuum cleaner. 166,140, Mar. 11.
Bellsey, David, New York, N. Y. Lady's coat. 166,141, Mar. 11.
Blanc, Marinette, Hewlett, assignor to Dawnelle, Inc., New York, N. Y. Glove. 166,142, Mar. 11.
Block, Myron A., Shorewood, Wis. Toothbrush, toothpaste, and eyeglass pocket bracket. 166,143, Mar. 11.
Cline, Inez E., Battle Creek, Mich. Game board. 166,144, Mar. 11.
Cook, Earl F., Marblehead, Mass. Cradle for wine bottles. 166,145, Mar. 11.
Cribben and Sexton Company, assignee: *See*—
Nelson, James A., Kamin, and Wolske.
Dawnelle, Inc., assignee: *See*—
Blanc, Marinette.
Dreitzer, Albert J., assignor to Pitman-Dreitzer & Co., Inc., New York, N. Y. Glass plate or similar article. 166,146, Mar. 11.
Dunbar, Norman R., Downey, assignor to Eldon Manufacturing Co., Los Angeles, Calif. Compartmented box. 166,147, Mar. 11.
Eagle Pencil Company, assignee: *See*—
Hanle, Benjamin W.
Eldon Manufacturing Co., assignee: *See*—
Dunbar, Norman R.
Emmons, Arthur N., Nedrow, N. Y., and P. Muller-Munk, Pittsburgh, Pa., assignors to Porter-Cable Machine Company, Syracuse, N. Y. Portable power operated sanding machine. 166,148, Mar. 11.
Fass, Samuel, Brooklyn, N. Y. Watch protector. 166,149, Mar. 11.
Forest, Diana, New York, N. Y. Apron or similar article. 166,150, Mar. 11.
Foster Grant Co., Inc., assignee: *See*—
Foster, Joseph C.
Foster, Joseph C., assignor to Foster Grant Co., Inc., Leominster, Mass. Sunglass frame or the like. 166,151, Mar. 11.
Foster, Joseph C., assignor to Foster Grant Co., Inc., Leominster, Mass. Sunglass frame or the like. 166,152, Mar. 11.
Foster, Joseph C., assignor to Foster Grant Co., Inc., Leominster, Mass. Sunglass frame or the like. 166,153, Mar. 11.
Garrett, William L., Jr., Los Angeles, Calif. Television timetable. 166,154, Mar. 11.
Gibbs, Geoffrey M., Sawbridgeworth, England. Clothesline peg. 166,155, Mar. 11.
Giovacchimi, Aliglivero, Chicago, Ill. Figurine. 166,156, Mar. 11.
Giovacchimi, Aliglivero, Chicago, Ill. Figurine. 166,157, Mar. 11.
Giovacchimi, Aliglivero, Chicago, Ill. Figurine. 166,158, Mar. 11.
Greben, Jerome, San Diego, Calif. Stacking member or similar article. 166,159, Mar. 11.
Grun, Otto, New York, N. Y. Combination golfer's watch and tee holder unit. 166,160, Mar. 11.
Hafner Associates, Inc., assignee: *See*—
Petracek, Vaclav.
Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y. Clutch pencil or similar article. 166,161, Mar. 11.
Heinz, H. J., Company, assignee: *See*—
Menefee, Samuel W., Jr.
Holiday Hosiery Corp., assignee: *See*—
Sell, Stanley.
Ischinger, Alfred E., Reading, Pa. Stocking. 166,162, Mar. 11.
Ischinger, Alfred E., Reading, Pa. Stocking. 166,163, Mar. 11.
Ischinger, Alfred E., Reading, Pa. Stocking. 166,164, Mar. 11.
Ischinger, Alfred E., Reading, Pa. Stocking. 166,165, Mar. 11.
Jacobson, Kate, assignee: *See*—
Rothstein, Isidore.
Jones, Aubrey L., assignee: *See*—
Ulrich, Solomon D.
Kamin, George W.: *See*—
Nelson, James A., Kamin, and Wolske.
Knapp, Kenneth D., Los Angeles, Calif. Combined framework and protective guard for a packaging machine. 166,166, Mar. 11.
Kost, Alwin, Portland, Oreg. Kitchen mixer. 166,111, Mar. 11.
Krilanovich, Steve, North Hollywood, Calif. Camera dolly. 166,112, Mar. 11.
Leerer, Ben, New York, N. Y. Textile fabric. 166,113, Mar. 11.
Lust, Valtin H., Ridgefield Park, N. J. Ball point pencil. 166,114, Mar. 11.
Melville, Joseph, Long Beach, N. Y. Bow tie. 166,115, Mar. 11.
Menefee, Samuel W., Jr., Manheim Township, Lancaster County, Pa., assignor to H. J. Heinz Company. Jar. 166,116, Mar. 11.
Muller-Munk, Peter: *See*—
Emmons, Arthur N., and Muller-Munk.
Nelson, James A., Elmhurst, G. W. Kamin, Lombard, and L. E. Wolske, assignors to Cribben and Sexton Company, Chicago, Ill. Range. 166,117, Mar. 11.
O'Connor, Charles B., Arlington, Mass. Protractor for axonometric drawing. 166,118, Mar. 11.
Orloff, Jack, New York, N. Y. Blouse. 166,119, Mar. 11.
Paden, Frederick T., Collingswood, N. J. Snowshoe. 166,120, Mar. 11.
Paden, Frederick T., Collingswood, N. J. Snowshoe. 166,121, Mar. 11.
Parva Products Company, assignee: *See*—
White, Paul W.
Pastine, Ray J., San Francisco, Calif. Sandal. 166,122, Mar. 11.
Pastine, Ray J., San Francisco, Calif. Sandal. 166,123, Mar. 11.
Pearce, Woodrow W., Los Angeles, Calif. Scalp massage brush or similar article. 166,124, Mar. 11.
Petracek, Vaclav, Long Island City, assignor to Hafner Associates, Inc., New York, N. Y. Woven plastic fabric. 166,125, Mar. 11.
Pitman-Dreitzer & Co., Inc., assignee: *See*—
Dreitzer, Albert J.
Porter-Cable Machine Company, assignee: *See*—
Emmons, Arthur N., and Muller-Munk.
Pouliot, Paul, assignor to Presto Lighters Limited, Montreal, Quebec, Canada. Table lighter. 166,126, Mar. 11.
Presto Lighters Limited, assignee: *See*—
Pouliot, Paul.
Rothstein, Isidore, Bronx, assignor to K. Jacobson, New York, N. Y. Sewing chest. 166,127, Mar. 11.
Rowser, Earl C., Detroit, and E. M. Apple, Grosse Pointe Woods, Mich. Fountain brush. 166,128, Mar. 11.
Rubenstein, David, San Diego, Calif. Precast concrete building frame member. 166,129, Mar. 11.
Saville, John, assignor to Saville Perfumery Limited, Watford, England. Box for a perfume bottle or similar article. 166,130, Mar. 11.
Saville Perfumery Limited, assignee: *See*—
Saville, John.
Sell, Stanley, Stroudsburg, Pa., assignor to Holiday Hosiery Corp., New York, N. Y. Stocking. 166,131, Mar. 11.
Siegel, George, Newark, N. J. Box. 166,132, Mar. 11.
Sievert, Russell E., North Hollywood, Calif. Skillet clock. 166,133, Mar. 11.
Silberberg, Larry, New York, N. Y. Chenille textile fabric. 166,134, Mar. 11.
Stark, Ludwig, Springfield, N. J. Artificial Christmas tree. 166,135, Mar. 11.
Troy, Seymour, New York, N. Y. Shoe. 166,136, Mar. 11.
Ulrich, Solomon D., Shelbyville, assignor to A. L. Jones, Stewardson, Ill. Fertilizer spreader hood. 166,137, Mar. 11.
Waite Carpet Company, assignee: *See*—
Waite, Philip C.
Waite, Philip C., assignor to Waite Carpet Company, Oshkosh, Wis. Floor covering. 166,138, Mar. 11.
White, Paul W., New Haven, Conn., assignor to Parva Products Company, Chicago, Ill. Toy crossbow. 166,139, Mar. 11.
Wolske, Lawrence E.: *See*—
Nelson, James A., Kamin, and Wolske.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, James A., and P. W. Mercer, assignors of one-third to J. A. Mercer, Chattanooga, Tenn. Pie making machine. 2,588,454, Mar. 11.

Acme Venetian Blind Company, assignee: *See*—
Schaefer, Edward E.

Adams, Chester E., Highland, Ind., and R. A. Dinerstein, assignors to Standard Oil Company, Chicago, Ill. Fractionation of organic compounds by adduct formation. 2,588,602, Mar. 11.

Adams, Wallace A., Petaluma, Calif. Folding box. 2,588,455, Mar. 11.

Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Burr, Horace K., and Bailey.
Mast, William C., and Fisher.
Young, Frank E., and Jones.

Air Reduction Company, Incorporated, assignee: *See*—
Hutt, Arthur R.

Ajouelo, Davis J., Atlanta, Ga. Bottle opener with cap receiver. 2,588,687, Mar. 11.

Akins, Jake, assignor of one-half to A. A. Dorman, Statesboro, Ga. Log peeling and shaping apparatus. 2,588,903, Mar. 11.

Aktiebolaget Manus, assignee: *See*—
Atterling, John W. L., Redin, and Ryde.

Albertson, Victor N.: *See*—
Halgren, Henry A., and Albertson.

Alde, Murray W., Beaver Lodge, Alberta, Canada. Helicopter rotor system. 2,589,030, Mar. 11.

Alexander, George: *See*—
Ferner, Warren E., Alexander, Robinson, and Streeter.

Alford, Donald E.: *See*—
Carlson, Harold A., and Alford.

Allan, William J., Richmond Heights, assignor to Missouri Automatic Control Corporation, St. Louis, Mo. Thermostatically actuated switch. 2,588,688, Mar. 11.

Allen, Graham G.: *See*—
Whittaker, Donald, and Allen.

Allen, James J., and J. A. Hawkes, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of cellulose esters. 2,588,457, Mar. 11.

Allen, John G., Hagley, near Stourbridge, England. Spring suspension of perambulators and the like. 2,588,456, Mar. 11.

Allied Laboratories, Inc., assignee: *See*—
Gochenour, Raymond B. and A. M.

Allis-Chalmers Manufacturing Company, assignee: *See*—
Hoffman, Sven A.
Johnson, John A.
Peter, Charles R.

Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*—
Dreyfus, Ludwig.
Ståhlhane, Bertil.

Allphin, Alvie D. and K. A., Cody, Wyo. Portable construction hoist. 2,588,458, Mar. 11.

Allphin, Kay A.: *See*—
Allphin, Alvie D. and K. A.

Allyne, Rollin F., Denver, Colo. Method of and apparatus for controlling temperature of trailer cargo and the like. 2,589,031, Mar. 11.

Almquist, Nils T., New Britain, and A. C. De Napoli, Jr., Windsor, assignors to The Soundscriber Corporation, New Haven, Conn. Machine for reprocessing phonograph record disks. 2,589,185, Mar. 11.

Alric, Gustave C. A., Troyes, France. Artillery training device. 2,588,904, Mar. 11.

Altman, Eston, Valdosta, Ga. Pear coring machine. 2,588,790, Mar. 11.

Aluminum Company of America, assignee: *See*—
Ferner, Warren E., Alexander, Robinson, and Streeter.

American Car and Foundry Company, assignee: *See*—
Kepner, Robert C.

American Cyanamid Company, assignee: *See*—
Bernstein, Seymour, Sax, and Giancola.
Kuh, Erwin.

American Laundry Machinery Company, The, assignee: *See*—
Johnson, Oscar W.

American Optical Company, assignee: *See*—
Ellis, Charles A.

American Steel Foundries, assignee: *See*—
Cottrell, Robert B.

American Trust Company, executor: *See*—
Sweetland, Ernest J.

American Viscose Corporation, assignee: *See*—
Dalton, Masten R.

Ames Crosta Mills & Company Limited, assignee: *See*—
Bolton, James F.

Amonsen, George H., Minneapolis, Minn. Power transmission mechanism. 2,589,032, Mar. 11.

Anderegg, Frederick O., Somerville, N. J., assignor to John B. Pierce Foundation, New York, N. Y. Dehumidifying system. 2,588,339, Mar. 11.

Anderson, Margaret K., Beverly Hills, assignor to Helene Brassiere Company, Inc., Glendale, Calif. Strapless brassière. 2,588,603, Mar. 11.

Andrew, James B. W., Jr., Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill. Bobbin package. 2,588,791, Mar. 11.

Angelini, Anthony, assignee: *See*—
Welsh, James G., Jr.

Annen, Robert, assignor to Roulements à Billes Miniatures S. A., Bienne, Switzerland. High-speed spindle. 2,588,459, Mar. 11.

Anspacher, Edgar, assignee: *See*—
Hogan, Billie I.

Anstett, Edgar P., Chicago, Ill. License plate fastener. 2,588,951, Mar. 11.

Antonevich, Michael, assignor to The Crawford Manufacturing Company, Incorporated, New Brunswick, N. J. Stop motion. 2,588,689, Mar. 11.

Arbit, Harry A.: *See*—
Burtner, Robert R., and Arbit.

Archer, William K., assignor to Injection Molding Company, Kansas City, Mo. Sealing holow bodies, such as bottles and similar containers of plastic material. 2,588,604, Mar. 11.

Archibald, Ian W., assignor to James Hardie & Coy. Pty. Limited, Sydney, New South Wales, Australia. Apparatus for the manufacture of glass wool and other filamentous liquefiable solid materials. 2,588,690, Mar. 11.

Aries, Robert S., New York, N. Y., and H. C. Needle, Chicago, Ill. Producing lactic acid. 2,588,460, Mar. 11.

Armbruster, John W., East Rockaway, N. Y. Container safety lock. 2,588,605, Mar. 11.

Armstrong Cork Company, assignee: *See*—
Baymiller, John W.
Schaller, Carl J.
Worm, Erwin A., Jr., and Raymond.

Armstrong, Robert T.: *See*—
Small, Frederick T., Armstrong, and Shoup.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Newman, Melvin S., and Magerlein.
Speaker, Harry B.

Art-Block Development Co., assignee: *See*—
Warner, Warren A.

Art Metal Construction Company, assignee: *See*—
Jones, James R., Bloomstran, and Gronberg.

Artzt, William W., New Rochelle, N. Y. Shirt and making same. 2,588,606, Mar. 11.

Aske, Irving E., Muskegon, Mich. Material dissolver and distributor. 2,588,691, Mar. 11.

Atlantic Refining Company, The, assignee: *See*—
Clapetta, Frank G., and Buck.

Atterling, John W. L., and E. Redin, Norrkoping, and H. Ryde, Bromma, assignors to Aktiebolaget Manus, Norrkoping, Sweden. Test milking apparatus. 2,588,461, Mar. 11.

Autogiro Company of America, assignee: *See*—
Pitcairn, Harold F.

Automatic Canteen Company of America, assignee: *See*—
Thompson, Ernest H.

Automatic Electric Laboratories, Inc., assignee: *See*—
Molnar, Imre.
Stehlik, Rudolph F.
Swartz, Edward L.
Wood, Fredric E., and Sargisson.

Automatic Sewing Equipment Co., Inc., assignee: *See*—
Schwartz, Leo.

Automatic Telephone & Electric Company Limited, assignee: *See*—
Roseby, Phillip N.

Avila, Abelardo G., York, Pa., assignor to Read Standard Corporation. Liquid conditioning system. 2,589,186, Mar. 11.

B-M-B Company, Inc., assignee: *See*—
Bausch, Evan J., and Mulanx.

Babb, Howard R., Jr.: *See*—
Roop, Nathan W., and Babb.

Babcock & Wilcox Company, The, assignee: *See*—
Carpenter, Otis R.
Harvey, James L.
Miller, William A., and Ratcliffe.

Backenstо, Elwood B., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Desulfurizing agent and its preparation. 2,589,187, Mar. 11.

Bailey, Glen F.: *See*—
Burr, Horace K., and Bailey.

Bailey, Meyer E., assignee: *See*—
Swanson, Bror W.

Baisch, John C., Los Angeles, Calif., assignor to Carter Carburetor Corporation, St. Louis, Mo. Fuel supply system. 2,588,952, Mar. 11.

Baker, Stanley W., Hackensack, and J. E. Rice, Pompton Plains, N. J., assignors to Curtiss-Wright Corporation. Multispeed transmission. 2,588,462, Mar. 11.

Balassa, Ladislaus, West Barrington, R. I. Preparation of starch ethers. 2,588,463, Mar. 11.

Balogh, Roy O.: *See*—
Humpal, Eugene G., and Balogh.

Bargman, Theodore, Royal Oak, Mich. Sink construction. 2,588,464, Mar. 11.

Barkalow, Clare E., Huntington, N. Y., assignor to The Sperry Corporation. Starting arrangement for gyroscopic instruments. 2,588,607, Mar. 11.

Barkley, Dwight W., Cheswick, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Adjustable mounting for automobile rearview mirrors. 2,588,792, Mar. 11.

Barksdale, James, Blytheville, Ark. Cutterhead for wood-turning lathes. 2,588,465, Mar. 11.

Barnes, Arthur H., Downers Grove, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Electrical generator. 2,588,466, Mar. 11.

Barney, Ernest L., Lincoln, Nebr. Gun carrier. 2,588,467, Mar. 11.

Barney, Freeman, Spring Lake, assignor to The Challenge Machinery Company, Grand Haven, Mich. Movable form lock. 2,588,468, Mar. 11.

Barr, Frank T.: *See*—
Martin, Homer Z., and Barr.

Barry, Leon G., Whippany, assignor to United States Instrument Corporation, Summit, N. J. Rotary selector switch. 2,588,793, Mar. 11.

Bartlett, Ernest, Calgary, Alberta, Canada. Pen clip. 2,588,692, Mar. 11.

Barton, Paul D., Phoenixville, assignor to Sun Oil Company, Philadelphia, Pa. Separating oil from water. 2,588,794, Mar. 11.

Bascom, Frances: *See*—
Vanderbilt, Byron M., and Bascom.

Basic Products Corporation, assignee: *See*—
Reynard, Chauncey G., and Hoover.

Bas'lewsky, Alexis, Watermael-Brussels, assignor to Solvay & Cie, Brussels, Belgium. Production of high concentration alkaline lyes. 2,588,469, Mar. 11.

Bass, Julius A., assignee: *See*—
Payne, Carlos B.

Bassist, Ellis, Brookline, Mass., assignor, by mesne assignments, to A. B. Dick Company, Niles, Ill. Inking mechanism for rotary lithographic presses. 2,588,470, Mar. 11.

Bauer, Edward L., Austin, Tex. Perpetual calendar. 2,588,795, Mar. 11.

Bauer, George C., Bayville, N. Y. Lamp vaporizer. 2,588,471, Mar. 11.

Baumgartner, John R., assignor to Mercury Engineering Corporation, Milwaukee, Wis. Paper-cutting apparatus. 2,589,033, Mar. 11.

Bausch, Evan J., and W. W. Mulanax, Hoyt, assignors to B-M-B Company, Inc., Holton, Kans. Saw attachment for tractors. 2,588,953, Mar. 11.

Baymiller, John W., Manheim Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Manufacture of fiber gasket material. 2,588,340, Mar. 11.

Beaver Pipe Tools, Inc., assignee: *See*—
Pealer, Robert B.

Beck, William R., assignor to Goodman Manufacturing Company, Chicago, Ill. Shuttle car. 2,588,341, Mar. 11.

Beckdahl, Walter A.: *See*—
Walkup, Lewis E., Copley, and Beckdahl.

Beedy, Harold, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for controlling the thickness and uniformity of a liquid coating on wire. 2,589,034, Mar. 11.

Beeson, Frank R., Eugene, Oreg. Astronomical teaching and training apparatus. 2,588,472, Mar. 11.

Beeten, Harold: *See*—
Slosberg, Sam M., Beeten, and Frank.

Begun, Semi J., Cleveland Heights, and T. F. Deucher, Parma, assignors to The Brush Development Company, Cleveland, Ohio. Automatic erase for magnetic recorders. 2,589,035, Mar. 11.

Belford, Alexander, assignor to Scott & Williams, Incorporated, Laconia, N. H. Knitting machine. 2,588,473, Mar. 11.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Flint, Erlon W., Hague, Joel, and Rippere.
Lovell, Clarence A., and Parkinson.
Potter, Ralph K.
Rafuse, Irad S.
Staples, Elliot M.
Zinn, Manvel K.

Bellios, Constantinos, Brooklyn, N. Y. Filter for internal-combustion engines. 2,588,474, Mar. 11.

Beman, Floyd L.: *See*—
Williams, Bill M., Berhenke, and Beman.

Bemis Bro. Bag Company, assignee: *See*—
Brady, Charles V., and Ottinger.
Scruggs, Thomas M.

Bender, Frank M., Evanston, Ill. Tie holder. 2,589,036, Mar. 11.

Bendix Aviation Corporation, assignee: *See*—
Hargreaves, William.
Noxon, Paul A.
Tognola, Tullio.

Bendix, Gordon H., and R. E. Henry, Park Ridge, and N. H. Strodtz, Eola, Ill., assignors to Continental Can Company, Inc., New York, N. Y. Preservation of green color in canned vegetables. 2,589,037, Mar. 11.

Benignus, Paul G., Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo. Compositions containing organic polymeric sulfides and metal salts of 8-hydroxyquinoline and preparing same. 2,588,796, Mar. 11.

Benrus Watch Company, Inc., assignee: *See*—
O'Neill, Henry J.

Bentley, Byron R., assignee: *See*—
Sadler, Luther E.

Berhenke, Luther F.: *See*—
Williams, Bill M., Berhenke, and Beman.

Berk, Kenneth E.: *See*—
Webster, Warren, and Berk.

Bernstein, Seymour, and K. J. Sax, Pearl River, N. Y., and D. Giancola, Jersey City, N. J., assignors to American Cyanamid Company, New York, N. Y. Δ⁴,⁶⁰-androstendiols and process. 2,588,608, Mar. 11.

Bethlehem Silk Company, The, assignee: *See*—
Johnston, John M.

Bidwell, Earl E., Los Angeles, Calif., assignor to W. P. Innes, Jr., Wichita, Kans. Fluid engine. 2,588,342, Mar. 11.

Bird, Paul G., and A. L. Jacoby, Western Springs, assignors to National Aluminate Corporation, Chicago, Ill. Inhibiting foaming in steam generators. 2,588,343, Mar. 11.

Bird, Paul G., and A. L. Jacoby, Western Springs, assignors to National Aluminate Corporation, Chicago, Ill. Prevention of foaming in steam generation. 2,588,344, Mar. 11.

Bird, Paul G., and A. L. Jacoby, Western Springs, assignors to National Aluminate Corporation, Chicago, Ill. Prevention of foaming in steam generation. 2,588,345, Mar. 11.

Biribauer, Frank A.: *See*—
Carlson, Carl S., Merrington, and Biribauer.
Morrell, Charles E., Biribauer, and Carlson.

Blackburn, Leroy S., Harmony, assignor to Universal Manufacturing Corp., Zelienople, Pa. Scaffold bracing. 2,588,905, Mar. 11.

Blackhall, Louis G., Albany, N. Y. Anchor for adjacent slabs of concrete pavements. 2,588,609, Mar. 11.

Blackman, Keith, Limited, assignee: *See*—
Tavener, Ernest E.

Bloomstran, Floyd H.: *See*—
Jones, James R., Bloomstran, and Gronberg.

Boast, Warren B., Ames, Iowa, and J. D. Ryder, Champaign, Ill., assignors to Iowa State College Research Foundation, Inc., Ames, Iowa. Generator. 2,588,797, Mar. 11.

Bogle, R. H., Company, The, assignee: *See*—
Taylor, Jack P.

Bolton, James F., Moss Ironworks, assignor to Ames Crosta Mills & Company Limited, Heywood, England. Filter bed. 2,588,475, Mar. 11.

Bond, George R., Jr., Paulsboro, N. J., assignor to Houdry Process Corporation, Philadelphia, Pa. Refining gasoline and petroleum oils with aqueous antimony trichloride. 2,588,346, Mar. 11.

Bondurant, Carlton W.: *See*—
Van Denberg, Thomas F., and Bondurant.

Bone, Herbert L., Forest Hills, and K. J. J. McGowan, Pittsburgh, Pa., assignors to Westinghouse Air Brake Company. Buffer means. 2,588,798, Mar. 11.

Bonsignore, Julio J.: *See*—
Platero, Armando B., Pardo, and Bonsignore.

Boonton Molding Company, assignee: *See*—
Sayre, Gordon B.

Booth, John G., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Manual transfer between automatic and manual regulating controllers. 2,588,799, Mar. 11.

Booth, Leon, New York, N. Y. Cork packing machine and the like. 2,589,038, Mar. 11.

Booth, Morris F., Alden, Mich. Sighting-in support for firearms. 2,589,039, Mar. 11.

Boothroyd, Wilson P., and H. F. Hartley, Jr., assignors to Philco Corporation, Philadelphia, Pa. Directional antenna system. 2,588,610, Mar. 11.

Borcz, John: *See*—
Carlson, Bert G., and Borcz.

Borden Company, The, assignee: *See*—
Sevall, Herbert E., and Schaeffer.

Bornemann, William, assignor to Eastman Kodak Company, Rochester, N. Y. Automatic photographic camera. 2,588,954, Mar. 11.

Bowles, Sherman F., San Antonio, Tex. Smoking pipe. 2,588,693, Mar. 11.

Bowman, Robert S.: *See*—
Stevens, Donald R., and Bowman.

Bown, Ronald A., Denver, Colo. Can opener. 2,588,347, Mar. 11.

Bowser, Percy L.: *See*—
Venner, William M., and Bowser.

Boyle, Farnham F.: *See*—
Lipic, Sylvester G., Boyle, and Lyon.

Boyles, J. Van, High Point, N. C. Machine for making garment hangers. 2,588,476, Mar. 11.

Bozel-Maletra Societe Industrielle de Produits Chimiques, assignee: *See*—
Lehmann, René L., and Lintner.

Bracken, William A., Levy, Ark. Sun visor for automobiles. 2,588,694, Mar. 11.

Brady, Charles V., and A. F. Ottinger, assignors to Bemis Bro. Bag Company, St. Louis, Mo. Labeled open-mesh bag. 2,588,695, Mar. 11.

Brannen, Wiley W., assignor of one-half to A. A. Dorman, Statesboro, Ga. Hydraulic brake adjuster. 2,588,955, Mar. 11.

Brauner, Ernest, St. Louis, and M. J. Denning, St. Charles, assignors to The Emerson Electric Manufacturing Company, St. Louis, Mo., Electric iron. 2,589,040, Mar. 11.

Breen, Frederick M., White Plains, N. Y. Cosmetic container. 2,588,611, Mar. 11.

Breiner, Rudolf C., Zurich, Switzerland. Forming flexible endless tubes. 2,589,041, Mar. 11.

Brenneman, Walter E., York, Pa. Hood hinge spring remover. 2,589,042, Mar. 11.

Brewen, William M., San Jose, Calif. Frame for vehicles. 2,589,043, Mar. 11.

Brewster, Oswald C., Litchfield, Conn. Automatic force-balance system. 2,588,800, Mar. 11.

Briggs, Martin L., Oakland, Calif. Power tool. 2,588,477, Mar. 11.

Bright, Fannie M., assignee: *See*—
Moore, Caleb L.

Bright, Fred A., assignee: *See*—
Moore, Caleb L.

Bristol Laboratories Inc., assignee: *See*—
Granatek, Alphonse P.

Brittain, Francis H., and E. G. James, Pinner, assignors to The General Electric Company, Limited, London, England. Crystal rectifier. 2,588,956, Mar. 11.

Brodeck, John, West New York, N. J. Collapsible shopping cart. 2,589,044, Mar. 11.

Brooking, Richard N., South Gate, assignor to Essick Manufacturing Company, Los Angeles, Calif. Evaporative cooler. 2,588,612, Mar. 11.

Brooks, Lewis C., Milwaukee, assignor of one-third to I. M. Jones, River Hills, Wis. Tube type container. 2,589,045, Mar. 11.

Brown, Alpha N., Kansas City, Mo. Film developing apparatus. 2,588,696, Mar. 11.

Brown, Harry W., Kansas City, Mo. Pastry box. 2,588,957, Mar. 11.

Brown, Harvey H., and B. N. Reed, Mountain City, Nev., assignors to Nailmaster, Inc. Claw hammer with extensible fulcrum. 2,589,046, Mar. 11.

Brown, Harvey H., Mountain City, and L. W. Williams, Owyhee, Nev., assignors to Nailmaster, Inc. Claw hammer with extensible fulcrum. 2,589,047, Mar. 11.

Brown, Lewis R.: *See*—
Goodman, Alfred E., and Brown.

Brown, William L., 3rd, and W. L. Brown, 4th, Philadelphia, Pa., Engine. 2,588,478, Mar. 11.

Brown, William L., 4th: *See*—
Brown, William L., 3rd, and W. L. Brown, 4th.

Brunet, Louis M., Tarbes, France. Footwear. 2,588,801, Mar. 11.

Bruninga, John H., assignee: *See*—
Moldenhauer, August J.

Brunswick-Balke-Collender Company, The, assignee: *See*—
Fleming, Lawrence M.

Brush Development Company, The, assignee: *See*—
Begun, Semi J., and Deucher.

Brussel, Fred H., assignee: *See*—
McLeod, Roy D.

Brussel, Sophia L., coexecutor, assignee: *See*—
McLeod, Roy D.

Bryant Chucking Grinder Company, assignee: *See*—
Gates, Hesslar H., and Grobey.

Buck, William H.: *See*—
Clapetta, Frank G., and Buck.

Budlane, Stanley J.: *See*—
Dusek, Robert, and Budlane.

Budlane, Stanley J., Chicago, Ill., assignor to Motorola, Inc. Fuel feeding system for heaters. 2,588,348, Mar. 11.

Budlane, Stanley J., assignor to Motorola, Inc., Chicago, Ill. Heater control apparatus. 2,588,350, Mar. 11.

Budlane, Stanley J., assignor to Motorola, Inc., Chicago, Ill. Internal-combustion heater. 2,588,352, Mar. 11.

Bueckermann, John V., Denver, Colo. Valve refinishing tool. 2,588,353, Mar. 11.

Buescher, Arthur, Detroit, Mich. Arbor. 2,588,354, Mar. 11.

Burch, Donald J., Denver, Colo. Weatherstrip for metal casement windows. 2,588,697, Mar. 11.

Burchett, Ray L., East Orange, and W. I. Nissen, assignors to Ronson Art Metal Works, Inc., Newark, N. J. Lighter locking mechanism. 2,588,479, Mar. 11.

Burckhardt, Alfred, Stamford, Conn., assignor to Pitney-Bowes, Inc. Package printing device. 2,588,480, Mar. 11.

Bureau, Arthur A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Reel. 2,589,048, Mar. 11.

Burgoyne, Charles L., Norwood, Ohio. Closure fastener. 2,588,356, Mar. 11.

Burkett, Amy: *See*—
Reager, Georgie V., and Burkett.

Burr, Horace K., San Pablo, and G. F. Bailey, Berkeley, Calif., assignors to United States of America, as represented by the Secretary of Agriculture. Method and apparatus for measuring dew point. 2,588,355, Mar. 11.

Burrill, Ernest A., Natick, and W. V. Smith, Auburndale, assignors to High Voltage Engineering Corporation, Cambridge, Mass. System or apparatus for stabilizing the voltage of electrostatic generators. 2,588,613, Mar. 11.

Burtner, Robert R., Skokie, Ill., and H. A. Arbit, Los Angeles, Calif., assignors to G. D. Searle & Co., Chicago, Ill. Ketoaliphatic acids derived from hydroxy and alkoxy diphenyl alkanes and the production thereof. 2,588,802, Mar. 11.

Butcher, Lance N., Surrey Hills, Victoria, Australia. Steam iron. 2,588,698, Mar. 11.

Byrne, John J., New York, N. Y. Singing-talking bank. 2,588,958, Mar. 11.

C. A. V. Limited, assignee: *See*—
Nicolls, Wilfrid E. W.

Cabes, Lucien A. B., Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Device for detecting electric potentials. 2,588,357, Mar. 11.

Caldwell, Welsey A., Manhattan Beach, Calif. Garage door hanger. 2,589,049, Mar. 11.

California Research Corporation, assignee: *See*—
Hanson, John E.

California Thimble Corporation, assignee: *See*—
Howser, Claude M.

Came, Frederick C., assignee: *See*—
Walden, Lester M., and Hernblad.

Campbell, Harry L., Wilmette, Ill. Extension ladder and hoist therefor. 2,588,959, Mar. 11.

Campbell, Jackson L., Cleveland, Ohio. Coffee dispenser. 2,588,960, Mar. 11.

Canadian Patents and Development Limited, assignee: *See*—
Vandenheuvel, Frantz A.

Capecelatro, Achille: *See*—
Hubbard, Charles L., and Capecelatro.

Capra, Amneris and O., Jamaica, N. Y. Draining basket. 2,588,614, Mar. 11.

Capra, Ottavio: *See*—
Capra, Amneris and O.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Printing onto lenticular film. 2,588,615, Mar. 11.

Carbonic Dispenser, Inc., assignee: *See*—
Welty, Frank and R. D.

Cargill, William W., Jr., Madison, Wis. Method and apparatus for transmitting intelligence by radio waves. 2,588,380, Mar. 11.

Carls, William, assignee: *See*—
McLeod, Roy D.

Carlson, Bert G., Gates Mills, and J. Borcz, assignors to The Henkel-Clauss Company, Fremont, Ohio. Method of and apparatus for making pinking shears. 2,589,050, Mar. 11.

Carlson, Carl S.: *See*—
Morrell, Charles E., Biribauer, and Carlson.

Carlson, Carl S., and R. S. Merrington, Elizabeth, and F. A. Biribauer, Cranford, N. J., assignors to Standard Oil Development Company. Polymerization of propylene with liquid catalyst complex. 2,588,358, Mar. 11.

Carlson, Chester F., Fairport, N. Y. Electrophotographic apparatus. 2,588,699, Mar. 11.

Carlson, Harold A., University City, and D. E. Alford, assignors to Carter Carburetor Corporation, St. Louis, Mo. Choke control. 2,588,961, Mar. 11.

Carlson, Reuben C., Chicago, Ill. Adjustable phonograph pickup arm. 2,588,616, Mar. 11.

Carlson, Trygve, Kodiak, Territory of Alaska. Flashlight and hearing aid battery. 2,588,962, Mar. 11.

Carpenter, Otis R., Barberton, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Welded joint. 2,588,700, Mar. 11.

Carter Carburetor Corporation, assignee: *See*—
Baisch, John C.
Carlson, Harold A., and Alford.

Carter, William A., Altadena, Calif. Crown cap lifter with reciprocating elements. 2,589,051, Mar. 11.

Celanese Corporation of America, assignee: *See*—
Allen, James J., and Hawkes.
Small, Frederick T.
Small, Frederick T., Armstrong, and Shoup.

Chadkewicz, Alexander: *See*—
Nims, Paul T., and Chadkewicz.

Chadwick, Alexander: *See*—
Nims, Paul T., and Chadkewicz.

Chain Belt Company, assignee: *See*—
Longenecker, Charles I.

Challenge Machinery Company, The, assignee: *See*—
Barney, Freeman.

Chandler, Milton E., New Britain, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Fuel injector pump mechanism. 2,588,481, Mar. 11.

Chapin, Bryan W., Tully, assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Washing machine and drive therefor. 2,588,963, Mar. 11.

Chapman, Charles W., Burstow, Horley, England. Friction clutch, brake, and coupling. 2,588,482, Mar. 11.

Chapman, Frank D., Berlin, Wis. Receptacle filler. 2,588,483, Mar. 11.

Charters, George W., and B. H. Michels, Camas, Wash., assignors to Crown Zellerbach Corporation, San Francisco, Calif. Mechanical off-bearing means. 2,588,484, Mar. 11.

Chiffelle, Eugène A., Besancon, France. Watch winding and setting mechanism. 2,589,052, Mar. 11.

Chitwood, Henry C., J. T. Fitzpatrick, G. W. Fowler, and B. T. Freure, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Nickel-copper-chromia-alkali metal sulfate catalysts and its preparation. 2,588,359, Mar. 11.

Chrysler Corporation, assignee: *See*—
Higbie, Alan L., and Stamm.
Jackman, Richard L.
McCain, George L.
Miers, Archie M.
Nims, Paul T., and Chadkewicz.
Siemmons, Arthur J.
Syrovy, Augustin J.
Terry, Sydney L.
Wyeth, Nathaniel.

Clapetta, Frank G., Llanerch Hills, and W. H. Buck, assignors to The Atlantic Refining Company, Philadelphia, Pa. Silica-alumina-group VIII metal catalyst. 2,589,189, Mar. 11.

Circle, Sidney J.: *See*—
Julian, Percy L., Circle, and MacDonald.

Clark Equipment Company, assignee: *See*—
Lapsley, Robert.

Clark, Jesse H., assignor to Cory Corporation, Chicago, Ill. Citrus fruit press. 2,588,906, Mar. 11.

Clark, Raymond K., assignor to The Perfection Bed Spring Company, Mansfield, Ohio. Bedspring. 2,589,053, Mar. 11.

Clarke, John S., Blacko, near Nelson, and L. J. Goddard, Bromborough, assignors to Joseph Lucas Limited, Birmingham, England. Liquid fuel burner nozzle. 2,588,485, Mar. 11.

Clarke, Rollin R., West Cheshire, assignor to The Patent Button Company, Waterbury, Conn. Combined tucker and orienting mechanism for snap fastener attaching machines. 2,588,486, Mar. 11.

Coffey, Francis T., Sr., Los Angeles, Calif. Film viewer. 2,588,803, Mar. 11.

Cole, Charles T., New Philadelphia, Ohio. Percussion tool. 2,588,360, Mar. 11.

Colley, Russell S., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Installing tubular rivets. 2,588,907, Mar. 11.

Collings Radio Company, assignee: *See*—
Hancock, Noel W., and McCoy.
Pyle, Ross S.

Columbia Machine Works, assignee: *See*—
Nelson, Russell B., Davies, and Neth.

Columbia Ribbon and Carbon Manufacturing Company, Inc., assignee: *See*—
Newman, Douglas A.

Conmar Products Corporation, assignee: *See*—
Moehler, Otto J.

Constantino, Joseph D., Boston, Mass. Fire alarm system. 2,588,964, Mar. 11.

Container Corporation of America, assignee: *See*—
Andrew, James B. W., Jr.

"Contina" Buro- und Rechenmaschinenfabrik A. G., assignee: *See*—
Herzstark, Curt.

Continental Can Company, Inc., assignee: *See*—
Bendix, Gordon H., Henry, and Strodtz.

Conway, Philip W., and T. J. Hajduk, Chicago, Ill., assignors to The Rauland Corporation. Apparatus for internally coating cathode-ray tube envelopes. 2,589,054, Mar. 11.

Cook, Elnar P., Clovis, Calif. Disk gang adjusting mechanism. 2,588,701, Mar. 11.

Cooper, Harry E., Pelham, assignor to United States Rubber Company, New York, N. Y. Single cover elastic yarn. 2,588,361, Mar. 11.

Coover, Harry W., Jr.: *See*—
Dickey, Joseph B., and Coover.

Coover, Harry W., Jr., Kingsport, Tenn., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Mixtures comprising polyacrylonitrile and polyalkyl α-acylaminoacrylates and articles obtained therefrom. 2,589,055, Mar. 11.

Cope, William E., assignor to F. M. Kinnard, Sebring, Ohio. Automatic clay spreader. 2,588,804, Mar. 11.

Copley, Harold E.: *See*—
Walkup, Lewis E., Copley, and Beckdahl.

Corbell, Harry T., Short Lane, Va. Locomotive construction. 2,589,056, Mar. 11.

Cornelius, James R., Coventry, England. Measuring instrument responsive to capacity variations. 2,588,702, Mar. 11.

Corson, Ben B., and W. M. Kutz, assignors to Koppers Company, Inc., Pittsburgh, Pa. Alkylation-dealkylation process. 2,589,057, Mar. 11.

Corson, Robert R., and H. Schlosser, Haddon Heights, N. J. Paste and cream tube dispenser having pressure jaws and brush holder. 2,589,058, Mar. 11.

Cory Corporation, assignee: *See*—
Clark, Jesse H.

Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Draft gear. 2,588,703, Mar. 11.

Cowden, Robert R.: *See*—
Krotz, Alvin S., and Cowden.

Cox, Williaam J., assignor to Williaam J. Cox Limited, London, England. Display form for hosiery. 2,588,704, Mar. 11.

Cox, Williaam J., Limited, assignee: *See*—
Cox, Williaam J.

Crane Co., assignee: *See*—
DeCraene, Edmond P., and Schmidt.

Crane, Samuel G., assignor of one-half to C. H. Reed, Omaha, Nebr. Electric timing device. 2,588,908, Mar. 11.

Crawford Manufacturing Company, Incorporated, The, assignee: *See*—
Antonevich, Michael.

Crise Manufacturing Company, assignee: *See*—
Korsgren, Theodore Y.

Croasdale, John P., Jr.: *See*—
Page, Louis R., Jr., and Croasdale.

Crockett, William P., Jr., assignor to Mackie-Lovejoy Manufacturing Co., Chicago, Ill. Garment hanger. 2,588,965, Mar. 11.

Crompton & Knowles Loom Works, assignee: *See*—
Pusateri, Francesco J.

Crookston, Robert R., Houston, Tex., assignor by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Braking device. 2,589,059, Mar. 11.

Cross, Reginald J., assignor of one-half to Essex Aero Limited, Gravesend, England. Crate for bottles and like containers. 2,588,805, Mar. 11.

Crown Zellerbach Corporation, assignee: *See*—
Charters, George W., and Michels.

Cruickshank, Roy, West Branch, Mich. Rafter square. 2,588,909, Mar. 11.

Cubitt, Roger H., and R. G. Sell, London, England, assignors, by mesne assignments, to Westinghouse Air Brake Company. Alternating current rectifier of the dry surface contact type. 2,588,806, Mar. 11.

Cuchet, Roger, Nancy, France. Carrier handle for cameras. 2,588,705, Mar. 11.

Curtis Development & Mfg. Co., assignee: *See*—
Phelps, Herbert S., Curtis, and Maurer.

Curtis, Herbert C.: *See*—
Phelps, Herbert S., Curtis, and Maurer.

Curtiss-Wright Corporation, assignee: *See*—
Baker, Stanley W., and Rice.
Peaslee, Robert L.
Phillips, Joseph A.

Da Costa, Harry, Snaresbrook, assignor to The Plessey Company Limited, Ilford, England. Change-speed friction drive for record changers. 2,588,807, Mar. 11.

Dale, Paul D., assignor to Eastman Kodak Company, Rochester, N. Y. Drum-type glossy print drier. 2,588,966, Mar. 11.

Dalton, Masten R., Charlotte, N. C., assignor to American Viscose Corporation, Wilmington, Del. Solutions of acrylonitrile polymers in nitromethane and alpha-hydroxy-beta-trichloropropionitrile. 2,588,334, Mar. 11.

Dalton, Masten R., Charlotte, N. C., assignor to American Viscose Corporation, Wilmington, Del. Solutions of acrylonitrile polymers. 2,588,335, Mar. 11.

Danison, Robert C., Panesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Flame retardant polyethylene and lignin containing composition. 2,588,362, Mar. 11.

Daroux, William G.: *See*—
Moise, James E., Luening, and Daroux.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorber for railway car trucks. 2,588,487, Mar. 11.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway draft riggings. 2,588,488, Mar. 11.

Davies, Miles: *See*—
Nelson, Russell B., Davies, and Neth.

Davis, Herbert L., Walpole, Mass., assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for coating strip material. 2,588,967, Mar. 11.

Davis, John V., assignor to The Udylite Corporation, Detroit, Mich. Anode shifting device. 2,588,910, Mar. 11.

Davis, Neuman T., Plainview, Tex. Disappearing table for automobile instrument panels. 2,588,706, Mar. 11.

Dawson, Reginald D., Compton, assignor to Shell Development Company, San Francisco, Calif. Oil base fluid for drilling wells. 2,588,808, Mar. 11.

Day, Richard F., Chicago, Ill. Tilting apparatus. 2,588,489, Mar. 11.

Debrie, André V. L. C., Paris, France. Driving mechanism for sound picture systems. 2,588,490, Mar. 11.

Deck, Philibert, Zurich, Switzerland. Tenter clip. 2,589,060, Mar. 11.

De Corlieu, Louis M., Paris, France. Crawl-fins. 2,588,363, Mar. 11.

DeCraene, Edmond P., Westchester, and E. G. Schmidt, Western Springs, assignors to Crane Co., Chicago, Ill. Permanent magnet operated valve. 2,589,188, Mar. 11.

Deere & Company, assignee: *See*—
Lindeman, Jesse G.

Deere Manufacturing Co., assignee: *See*—
Hill, George B.

Degan, Victor D., Chicago, Ill. Musical instrument apparatus. 2,588,617, Mar. 11.

Degiorgi, Eduard, Zurich, Switzerland, assignor to Koppers Company, Inc., Pittsburgh, Pa. Electrostatic precipitator. 2,588,364, Mar. 11.

De Groote, Melvin, St. Louis, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Hydroaromatic analogues of certain hydrophile hydroxylated synthetic products and making same. 2,589,061, Mar. 11.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Oxyalkylated derivatives of furfural-substituted phenol resins. 2,589,062, Mar. 11.

De Laval Steam Turbine Company, assignee: *See*—
Sennet, Morgan B.

De Marco, Louis, Cleveland, Ohio. Centrifugally responsive governor. 2,588,911, Mar. 11.

Demarest, Daniel D., Little Neck, N. Y., assignor to Linker Machines, Inc., Newark, N. J. Knife and holder mounting therefor. 2,588,809, Mar. 11.

Demos, George, Fort Wayne, Ind., assignor to Kenosha Auto Transport Corporation, Springfield, Ohio. Truck carrier clamp. 2,588,491, Mar. 11.

De Napoli, Anthony C., Jr.: *See*—
Almquist, Nils T., and Napoli.

Denhard, Harry W., Sebastopol, assignor to Oliver United Filters Incorporated, Oakland, Calif. Continuous rotary table filter provided with multiple scroll discharger. 2,588,912, Mar. 11.

Dennett, Firth L., assignor to Dow Corning Corporation, Midland, Mich. Rendering fabrics water-repellent and product resulting therefrom. 2,588,365, Mar. 11.

Dennett, Firth L., assignor to Dow Corning Corporation, Midland, Mich. Rendering fabrics water-repellent and composition therefor. 2,588,366, Mar. 11.

Dennett, Firth L., assignor to Dow Corning Corporation, Midland, Mich. Rendering cellulosic material nonadherent to adhesives. 2,588,367, Mar. 11.

Dennewitz, Fred E., Forrest, Ill. Lawn mower sharpening machine. 2,588,492, Mar. 11.

Denning, Maurice J.: *See*—
Brauner, Ernest, and Denning.

Denver Fire Clay Company, assignee: *See*—
Simmons, Robert E.

De Stefano, John, Long Island City, N. Y. Valve for stems of pneumatic tires. 2,588,493, Mar. 11.

Detroit Harvester Company, assignee: *See*—
McLeod, Stewart B.

Detroit Lubricator Company, assignee: *See*—
Dillman, Earnest J.

Detroit Trust Company, coexecutor, assignee: *See*—
McLeod, Roy D.

Deucher, Theodore F.: *See*—
Begun, Semi J., and Deucher.

Deuel, Jack N., Hawthorne, Calif. Cooking utensil. 2,588,494, Mar. 11.

Devlin, Paul A.: *See*—
Shokal, Edward C., and Devlin.

Dewey, Clarence L., Grand Rapids, Mich. Tubular metallic bait. 2,588,913, Mar. 11.

Diamond Alkali Company, assignee: *See*—
Danison, Robert C.

Dick, A. B., Company, assignee: *See*—
Bassist, Ellis.

Dickey, Joseph B.: *See*—
Coover, Harry W., Jr., and Dickey.

Dickey, Joseph B., and T. E. Stanin, assignors to Eastman Kodak Company, Rochester, N. Y. Alpha-acylamino styrenes. 2,588,968, Mar. 11.

Dickey, Joseph B., and H. W. Coover, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Certain acylamino-acrylates and crotonates as insecticides. 2,588,969, Mar. 11.

Dietrich, Clifford J., Charlottesville, Va. Assembling aid for constructing frameworks. 2,588,810, Mar. 11.

Dikhoff, Johannes A. M.: *See*—
Dippel, Cornelis J., Lely, and Dikhoff.

Dillman, Earnest J., assignor to Detroit Lubricator Company, Detroit, Mich. Thermostatic switch. 2,589,063, Mar. 11.

Dinerstein, Robert A.: *See*—
Adams, Chester E., and Dinerstein.

Dippel, Cornelis J., J. A. Lely, and J. A. M. Dikhoff, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Drying gelatine layers. 2,588,811, Mar. 11.

Di Renzo, Simon, assignee: *See*—
Di Renzo, Vincent P.

Di Renzo, Vincent P., Landisville, N. J., assignor of one-half to S. Di Renzo and one-half to J. J. McDevitt, Philadelphia, Pa. Egg storage and dispensing device. 2,588,618, Mar. 11.

Dodge, Adiel Y., Rockford, Ill. Fan drive clutch. 2,588,495, Mar. 11.

Dollinger, Lewis L., Rochester, N. Y. Chimney and the like. 2,588,496, Mar. 11.

Dorfman, Hiller D., and W. D. Patton, Beaver, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,588,497, Mar. 11.

Dorman, Alfred A., assignee: *See*—
Akins, Jake.
Brannen, Wiley W.

Dougherty, Patrick F., Chester Heights, assignor to Sun Oil Company, Philadelphia, Pa. Wax cake. 2,588,812, Mar. 11.

Dow Chemical Company, The, assignee: *See*—
Morris, Elton K.
Roche, Arthur F., and Price.
Williams, Bill M., Berhenke, and Beman.

Dow Corning Corporation, assignee: *See*—
Dennett, Firth L.
Kauppi, Toivo A.

Doyle, Edward J.: *See*—
Welsh, James G., Jr.

Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Multiple sheet glazing units. 2,589,064, Mar. 11.

Dresser Industries, Inc., assignee: *See*—
Risley, Roger E., and Kish.

Dreyfus, Ludwig, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Magnetic ore separator. 2,589,065, Mar. 11.

Driskill, Dallas B. and J. W., San Francisco, Calif. Typist's rule. 2,588,498, Mar. 11.

Driskill, Joseph W.: *See*—
Driskill, Dallas B. and J. W.

Drouin, Pierre A., Paris, France. Electromagnetic compass. 2,588,619, Mar. 11.

Dube, Joseph P., Williamstown, Mass. Motion-picture machine with electrically operated shutter and film operator. 2,588,813, Mar. 11.

Dubek, Theodore, Astoria, N. Y. Reciprocating chalk sharpener. 2,588,499, Mar. 11.

Dubuit, Louis G., Paris, France. Silk screen printing machine. 2,588,620, Mar. 11.

Dugan, Hugh C., Elyria, Ohio. Making heat exchangers. 2,588,500, Mar. 11.

Dummer, Samuel R., Dunellen, N. J. Stretching tool. 2,588,501, Mar. 11.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Thompson, Donald E.

Duncan, Lee N., Oklahoma City, Okla. Dispenser for lard and similar semisolids. 2,589,066, Mar. 11.

Dunham, Robert W., Drexel Hill, Pa., assignor to General Electric Company. Retarded release shock lock. 2,588,914, Mar. 11.

Dunn, Fred P., Glendale, Calif. Parking way control system. 2,588,502, Mar. 11.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Iler, Ralph K.

Dusek, Robert, Berwyn, and S. J. Budlane, Chicago, Ill., assignors to Motorola, Inc. Internal-combustion heating apparatus. 2,588,349, Mar. 11.

Dwyer, George F., Branford, Conn. Floor sander. 2,588,707, Mar. 11.

Dwyer, James, Colorado Springs, Colo. Balanced load wheelbarrow. 2,588,503, Mar. 11.

Eastman Kodak Company, assignee: *See*—
Bornemann, William.
Capstaff, John G.
Coover, Harry W., Jr., and Dickey.
Dale, Paul D.
Dickey, Joseph B., and Coover.
Dickey, Joseph B., and Stanin.
Fitch, Harold L., and Scudder.
Fontaine, Emile A.
Gearhart, William M., and Pugh.
Hodges, Howard T.
Hull, David C.
Ives, Charles E.
McLeod, John H.
Michatek, Chester W.
Towne, Edmund B., and Hill.
Weissberger, Arnold, and Edens.

Easy Washing Machine Corporation, assignee: *See*—
Chapin, Bryan W.

Eaton Manufacturing Company, assignee: *See*—
Findley, Howard J.

Eckman, Donald P., Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pneumatic control system. 2,588,621, Mar. 11.

Eckman, Donald P., Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pneumatic control apparatus. 2,588,622, Mar. 11.

Edelson, Leo: *See*—
Ponder, Speers G., Fischer, and Edelson.

Edens, Charles O., Jr.: *See*—
Weissberger Arnold, and Edens.

Edgerton, Harold E., Belmont, Mass. Light integrator. 2,588,368, Mar. 11.

Ellerts, Charles K., Bartlesville, Okla., assignor to the United States of America as represented by the Secretary of the Interior. Apparatus for use in the treatment of oil, gas, and gas-condensate wells. 2,588,369, Mar. 11.

Elastic Stop Nut Corporation of America, assignee: *See*—
Erb, George H.

Elastine Process & Development Ltd., assignee: *See*—
Porter, Sydney.

Electric Trolley Pole Company, assignee: *See*—
Terhune, Vernon B.

Eliscu, Frank, Ossining, and M. B. Kassel, New York, N. Y. Surgical instrument for intradermal injection of fluids. 2,588,623, Mar. 11.

Elliott, Arthur C., Maidstone, England. Mechanism for delivering inflammable liquids. 2,588,504, Mar. 11.

Elliott, Dwight A., Richmond, Ind. Metal awning structure. 2,588,708, Mar. 11.

Elliott, Hubert L., Aline, Okla. Disk harrow. 2,588,709, Mar. 11.

Elliott, Mintie P., Glen Rose, Tex. Beehive. 2,588,370, Mar. 11.

Ellis, Charles A., assignor to American Optical Company, Southbridge, Mass. Ophthalmic lens mounting. 2,588,505, Mar. 11.

Elox Corporation of Michigan, assignee: *See*—
McKechnie, Ian C.

Emerson Electric Manufacturing Company, The, assignee: *See*—
Brauner, Ernest, and Denning.

Engelhardt, Eugen, Lobberich, Germany, assignor to R. H. Jacob, Milwaukee, Wis. Electrically operated toy or model railroad. 2,588,710, Mar. 11.

Engine Parts Manufacturing Company, The, assignee: *See*—
North, Harold D., Jr.

Engineering Research, Inc., assignee: *See*—
Merz, Max.

Englesson, John E., Kristinehamn, Sweden. Combined propeller pitch and engine speed control device. 2,588,371, Mar. 11.

Ensign, Angus C.: *See*—
Unti, Frank P., Potts, and Ensign.

Erb, George H., South Orange, assignor to Elastic Stop Nut Corporation of America, Township of Union, N. J. Fastening device. 2,588,372, Mar. 11.

Erban, Richard T., New York, N. Y. Kinoptic device. 2,588,373, Mar. 11.

Erickson, Francis L., assignor to Woodward Governor Company, Rockford, Ill. Hydraulic control system. 2,589,067, Mar. 11.

Erickson, Milford A., Denver, Colo. Marking apparatus. 2,588,374, Mar. 11.

Erikson, Walter H., Rochester, N. Y., assignor to Stromberg-Carlson Company. Obtaining predetermined phase shift characteristics. 2,588,915 Mar. 11.

Erland, Ståle, Kristiansand S., Norway, and H. Tregaard, New York, N. Y. Notched plank or log. 2,588,814, Mar. 11.

Esposito, Vito, Haddon Heights, assignor to R. M. Hollingshead Corporation, Camden, N. J. Hydraulic fluid composition. 2,588,970, Mar. 11.

Essex Aero Limited, assignee: *See*—
Cross, Reginald J.

Essick Manufacturing Company, assignee: *See*—
Brooking, Richard N.

Eureka Specialty Printing Company, assignee: *See*—
Vassar, Thomas E.

Evans, John O., Jr., Washington, D. C. Bar accessory having a siphon for dispensing a predetermined quantity of liquid. 2,589,068, Mar. 11.

Evans, Raymond B.: *See*—
Kunze, Walter G., and Evans.

Evans, Richard, 2nd, Johnstown, N. Y. Finishing knitted fabric. 2,588,624, Mar. 11.

Everett, Charles V., assignor to Massey-Harris Company, Racine, Wis. Blower elevator. 2,588,711, Mar. 11.

Eversharp, Inc., assignee: *See*—
Greist, Raymond L.

Ex-Cell-O Corporation, assignee: *See*—
Mathys, Max A.

Fairbanks, Morse & Co., assignee: *See*—
Kutz, Arthur O.
Lindbeck Howard R.

Fanner Manufacturing Company, assignee: *See*—
Schane, Edward W.

Farrand Optical Co., Inc., assignee: *See*—
Rosin, Seymour.

Fasce, Egi V., Baton Rouge, La., assignor to Standard Oil Development Company. Making resins from olefin polymers and organic acid anhydride. 2,589,069, Mar. 11.

Fasolino, Peter A., Buffalo, N. Y. Motor vehicle safeguard. 2,588,815, Mar. 11.

Fatland, Conrad, Chicago, Ill. Mop handle connection. 2,588,971, Mar. 11.

Ferner, Warren E., G. Alexander, J. Robinson, and W. E. Streeter, Monroe, Mich., assignors to Aluminum Company of America, Pittsburgh, Pa. Forging lubricant and using same. 2,588,625, Mar. 11.

Ferranti Limited, assignee: *See*—
McCallum, Donald M.
Whitehead, James R., and Wood.

Ferris, Walter W. Fredonia, Kans. Anchoring device. 2,588,712, Mar. 11.

Fetterly, Lloyd C., Long Beach, assignor to Shell Development Company, San Francisco, Calif. Extractive fractionation process. 2,588,506, Mar. 11.

Field, Oscar S., and J. E. Freehafer, assignors to General Railway Signal Company, Rochester, N. Y. Navigational system for airways traffic control. 2,588,916, Mar. 11.

Filippi, Aldo R., Redwood City, Calif. Hammer actuating mechanism. 2,588,816, Mar. 11.

Findley, Howard J., Chardon, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Heater booster brake. 2,588,507, Mar. 11.

Findley, Howard J., Chardon, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Thermoelectric generator. 2,588,508, Mar. 11.

Fischbach, Alexander A., St. Paul, Minn. Smoking pipe. 2,588,713, Mar. 11.

Fischer, Henry C.: *See*—
Ponder, Speers G., Fischer, and Edelson.

Fish, Robert H., Adams, N. Y. Parlor baseball game. 2,588,972, Mar. 11.

Fisher, Charles H.: *See*—
Mast, William C., and Fisher.

Fitch, Harold L., and S. L. Scudder, assignors to Eastman Kodak Company, Rochester, N. Y. Machine for applying treatment solution over limited areas of motion-picture film. 2,588,973, Mar. 11.

Fitzpatrick, John T.: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

Fleming, Lawrence M., Escanaba, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Ball cleaning and polishing apparatus. 2,588,714, Mar. 11.

Fleming, William E.: *See*—
Oftebro, William S., and Fleming.

Flint, Erlon W., Mountain View, and A. E. Hague, West Orange, N. J., and A. E. Joel, Jr., New York, and R. O. Rippere, Massapequa, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic accounting device. 2,588,375, Mar. 11.

Follett, Archie E.: *See*—
Fryling, Charles F., and Follett.

Folzenlogen, Robert G.: *See*—
Lange, Willy, and Folzenlogen.

Fontaine, Emile A., Gethsemane, Ky., assignor to Eastman Kodak Company, Rochester, N. Y. Optical aligner. 2,588,974, Mar. 11.

Forster, Francis G., Ecorse, Mich. Scissor type element for removing dents from body and fender panels. 2,588,509, Mar. 11.

Fortner, Mannie S., Houston, Tex. Electrically operable indicator for simulated dice games. 2,588,817, Mar. 11.

Foster and Kleiser Company, assignee: *See*—
Reemelin, Wallace M., and Olmsted.

Fourtier, Jean L., Paris, France. Air distributor. 2,588,626, Mar. 11.

Foushee, Robert M., and J. Gottfried, assignors to National Rejectors, Inc., St. Louis, Mo. Multiple coin selector. 2,588,510, Mar. 11.

Fowler, George W.: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

Fox, Benjamin, New York, N. Y. Frequency response analysis. 2,588,376, Mar. 11.

Fram Corporation, assignee: *See*—
Guiot, Auguste.

Frank, Edward: *See*—
Slosberg, Sam M., Beeten, and Frank.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,588,377, Mar. 11.

Franks, Norvin H., Chicago, Ill. Tension bolted frame construction. 2,588,818, Mar. 11.

Freehafer, John E.: *See*—
Field, Oscar S., and Freehafer.

Freure, Benjamin T.: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

Frieden, Alexander, Whitefish Bay, and H. H. Geller, Milwaukee, Wis. Foam stabilization. 2,588,378, Mar. 11.

Frieden, Alexander, Whitefish Bay, and H. H. Geller, Milwaukee, Wis. Foam stabilizer and stabilising foams. 2,588,379, Mar. 11.

Friedman, Alvin H., Kansas City, Mo., and J. N. Moran, Bartlesville, Okla., assignors to Phillips Petroleum Company. Catalyst for the synthesis of hydrocarbons by reduction of carbon monoxide with hydrogen and utilizing same. 2,588,511, Mar. 11.

Frisbie, Stewart E., Danville, and G. E. Weeks, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Electrical breakdown testing apparatus. 2,589,070, Mar. 11.

Fryling, Charles F., Phillips, and A. E. Follett, Borger, Tex., assignors to Phillips Petroleum Company. Reaction rate of an emulsion polymerization process. 2,588,975, Mar. 11.

Fuhrmeister, Charles, Jr., Maplewood, N. J., assignor to Oliver United Filters Incorporated, Oakland, Calif. Filter. 2,588,976, Mar. 11.

G-M Laboratories, Inc., assignee: *See*—
McMaster, Archie J., and Kitto.

Gair, Robert, Company, Inc., assignee: *See*—
Page, Louis R., Jr., and Croasdale.

Galasso, Anthony A., assignor to Western Electric Company, Incorporated, New York, N. Y. Battery holder. 2,589,071, Mar. 11.

Gamrath, Harry R., St. Louis, and W. E. Weesner, Webster Groves, assignors to Monsanto Chemical Company, St. Louis, Mo. Vinyl chloride polymers plasticized with alkyl benzyl tetrachlorophthalates. 2,588,512, Mar. 11.

Garneau, Leah L., Babbitt, Nev. Can cover and perforator with pouring spouts. 2,588,819, Mar. 11.

Garretson, Owen L., Roswell, N. Mex., assignor to Phillips Petroleum Company. Relief valve. 2,589,072, Mar. 11.

Garrett, Henry U., Longview, assignor to Garrett Oil Tools, Inc., Houston, Tex. Differential flow valve. 2,588,715, Mar. 11.

Garrett Oil Tools, Inc., assignee: *See*—
Garrett, Henry U.

Gartner, Stanley J., and P. G. Pilkinton, Emporium, Pa., assignors to Sylvania Electric Products, Inc. Indexing and drive mechanism. 2,588,977, Mar. 11.

Gates, Hesslar H., Charlestown, N. H., and P. A. Grobey, assignors to Bryant Chucking Grinder Company, Springfield, Vt. Gauge. 2,588,820, Mar. 11.

Gearhart, William M., and R. W. Pugh, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Manufacturing resorcinol monobenzoate. 2,588,978, Mar. 11.

Gelb, Arthur H., Milwaukee, Wis. Sheet stop device for rotary duplicating machines. 2,588,917, Mar. 11.

Geiger, Lyle M., Edgewood, assignor to The Neville Company, Pittsburgh, Pa. Coating compositions containing a drying oil-modified menthane derivative. 2,588,821, Mar. 11.

Geller, Harold H.: *See*—
Frieden, Alexander, and Geller.

General Baking Company, assignee: *See*—
Olsen, Thomas S.

General Electric Company, assignee: *See*—
Dunham, Robert W.
Goodwin, Ralph C.
Green, Robert L.
Gruen, Wolf J.
Holmes, Robert G.
Miller, Charles W.
Pratt, Harry G.
Scott, Benjamin B.

General Electric Company, Limited, The, assignee: *See*—
Brittain, Francis H., and James.

General Railway Signal Company, assignee: *See*—
Field, Oscar S., and Freehafer.
Kendall, Hugh C., and Orpin.

Gevaert Photo-Producten N. V., assignee: *See*—
Robijns, Willem P. M. J.

Giacoletto, Lawrence J., Eatontown, N. J., assignor to Radio Corporation of America. Electrostatic high-voltage generator. 2,588,513, Mar. 11.

Giancola, Dominic: *See*—
Bernstein, Seymour, Sax, and Giancola.

Gilbert, Maxon E., North Scituate, R. I. Cooking stove. 2,589,073, Mar. 11.

Gill, James P., assignor to Vanadium-Alloys Steel Company, Latrobe, Pa. Ferrous alloys. 2,588,514, Mar. 11.

Gilson, Pierre C. J., Campagnelez-Wardrecques, France. Reversible roller type clutch. 2,588,515, Mar. 11.

Gilson, Robert M., Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Crossover protection apparatus. 2,588,822, Mar. 11.

Glassman, Jacob, Chicago, Ill. Rubber foam cushion. 2,588,823, Mar. 11.

Glidden Company, The, assignee: *See*—
Julian, Percy L., Circle, and MacDonald.
Julian, Percy L., Meyer, and Printy.

Glidden, Galen M., Wheaton, Ill. Gas mask. 2,588,516, Mar. 11.

Goble, Merritt T., Muskogee, Okla. Nut-cracking implement. 2,588,979, Mar. 11.

Gochenour, Alice M.: *See*—
Gochenour, Raymond B. and A. M.

Gochenour, Raymond B. and A. M., Indianapolis, Ind., assignors to Allied Laboratories, Inc., Kansas City, Mo. Process and apparatus for the irradiation of liquids. 2,588,716, Mar. 11.

Goddard, Leslie J.: *See*—
Clarke, John S., and Goddard.

Goldstein, Harry H., deceased, North Arlington, Va.; R. H. Goldstein, administratrix C. T. A. Bottle crate. 2,588,824, Mar. 11.

Goldstein, Rose H., administratrix C. T. A.: *See*—
Goldstein, Harry H.

Gooderham, Cecil E.: *See*—
Hedstrom, Eric L., Otto, Gooderham.

Goodman, Alfred E., and L. R. Brown, Pasco, Wash. Nonblurrable rear-vision mirror. 2,588,825, Mar. 11.

Goodman Manufacturing Company, assignee: *See*—
Beck, William R.

Goodrich, B. F., Company, The, assignee: *See*—
Colley, Russell S.
Davis, Herbert L.
Krotz, Alvin S., and Cowden.
Legullion, Charles W., and Katzenmeyer.
Schellin, Frank H.
Schroeder, Charles H.
Stewart, William D., and Standen.
Westfahl, Jerome C.

Goodwin, Lloyd O., assignor to Standolind Oil and Gas Company, Tulsa, Okla. Apparatus for measuring dips of well strata. 2,588,717, Mar. 11.

Goodwin, Ralph C., Schenectady, N. Y., assignor to General Electric Company. Control for gas turbine power plants. 2,589,074, Mar. 11.

Goodwin, Robert C., Lubbock, Tex., assignor to Phillips Petroleum Company. Manufacture of improved drying oils by the condensation of unsaturated mineral oil polymers with aldehydes. 2,588,826, Mar. 11.

Goodyear Aircraft Corporation, assignee: *See*—
Mayne, Robert.

Gottfried, John: *See*—
Foushee, Robert M., and Gottfried.

Gouch, Victor F., Plano, Ill. Coupling. 2,588,827, Mar. 11.

Gould-National Batteries, Inc., assignee: *See*—
Tanner, George S.

Gow, Arthur R., Hamden, and C. T. Manville, Woodbury, assignors to The Seamless Rubber Company, New Haven, Conn. Syringe. 2,588,381, Mar. 11.

Graham, William T., Amarillo, Tex. Mechanism for raising and lowering plow frames relative to the ground wheels. 2,588,918, Mar. 11.

Granatek, Alphonse P., assignor to Bristol Laboratories Inc., Syracuse, N. Y. Biphenyl amine salts of penicillin. 2,588,517, Mar. 11.

Grant Oil Tool Company, assignee: *See*—
Santiago, James J.

Gravis, Richard C., Austin, Tex. Toolholder for impact tools. 2,589,075, Mar. 11.

Gray, G. A., Company, The, assignee: *See*—
Walter, John M.

Gredell, Otto N., Kansas City, Mo. Shoe protector. 2,588,919, Mar. 11.

Green, Isaac H. C., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitting. 2,588,718, Mar. 11.

Green, Robert L., Schenectady, N. Y., assignor to General Electric Company. Applying a vitreous coating composition to a glass base and article resulting therefrom. 2,588,920, Mar. 11.

Greening, Gloria R.: *See*—
Kumins, Charles A., and Greening.

Greiner, Norman S., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Composition for and method of producing coated cement surfaces and the product resulting therefrom. 2,588,828, Mar. 11.

Greist, Raymond L., assignor to Eversharp, Inc., Chicago, Ill. Writing instrument. 2,588,829, Mar. 11.

Grobey, Paul A.: *See*—
Gates, Hesslar H., and Grobey.

Gronberg, Victor A.: *See*—
Jones, James R., Bloomstran, and Gronberg.

Gruen, Wolf J., Syracuse, N. Y., assignor to General Electric Company. Oscillator synchronizing system. 2,588,921, Mar. 11.

Grushon, Harold N., assignor to The Joyce-Cridland Company, Dayton, Ohio. Closure and closure operator for pit mounted auto lifts. 2,588,518, Mar. 11.

Guiot, Auguste, Paris, France, assignor to Fram Corporation. Liquid filter. 2,588,519, Mar. 11.

Gulf Research & Development Company, assignee: *See*—
Rocchini, Albert G.
Stevens, Donald R., and Bowman.

Guzzi, Salvatore: *See*—
Olson, Andrew.

Haanstad, Engval J., Arlington, S. Dak. Drum buoy. 2,588,830, Mar. 11.

Haas, Otto R., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe sewing machine. 2,588,383, Mar. 11.

Hague, Alfred E.: *See*—
Flint, Erlon W., Hague, Joel, and Rippere.

Hajduk, Thaddeus J.: *See*—
Conway, Philip W., and Hajduk.

Halgren, Henry A.: *See*—
Swenson, William E., and Halgren.

Halgren, Henry A., and V. N. Albertson, Minneapolis, assignors, by mesne assignments, to Minneapolis-Moline Company, Hopkins, Minn. Hydraulically operated check valve mechanism. 2,588,520, Mar. 11.

Haloid Company, The, assignee: *See*—
Walkup, Lewis E., Copley, and Beckdahl.

Halper, George J., assignee: *See*—
Schaefer, Edward E.

Hammond Instrument Company, assignee: *See*—
Hammond, Laurens.

Hammond, John H., Jr., assignee: *See*—
Purington, Ellison S.

Hammond, Laurens, assignor to Hammond Instrument Company, Chicago, Ill. Vehicle steering control apparatus. 2,588,382, Mar. 11.

Hancock, Noel W., and D. O. McCoy, assignor to Collins Radio Company, Cedar Rapids, Iowa. Folded delay line. 2,589,076, Mar. 11.

Hanes, James W. E.: *See*—
Hanline, Walter R., and Hanes.

Haney, Earl P., Winchester, Mass. Improving coffee flavor. 2,588,922, Mar. 11.

Hanline, Walter R., and J. W. E. Hanes, Ventura, Calif. Control valve for pressure bailers. 2,588,521, Mar. 11.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. High-frequency energy transfer circuit. 2,588,831, Mar. 11.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Transmission line coupling. 2,588,832, Mar. 11.

Hanson, John E., Richmond, assignor to California Research Corporation, San Francisco, Calif. Detergent composition. 2,589,190, Mar. 11.

Hardie, James, & Coy, Pty. Limited, assignee: *See*—
Archibald, Ian W.

Hargreaves, William, Bergenfield, assignor to Bendix Aviation Corporation, Teterboro, N. J. Laminated electrical assembly and making the same. 2,588,719, Mar. 11.

Harris, Thomas A., Edgbaston, assignor to Joseph Lucas Limited, Birmingham, England. Regulating means for liquid fuel supply systems of prime movers or other apparatus. 2,588,522, Mar. 11.

Hart Products Corporation, assignee: *See*—
Schwartz, B. Robert.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Dippel, Cornelis J., Lely, and Dikhoff.
Posthumus, Klaas.
Semeyn, Johannes.
Strating, Jan.

Hartley, Harry F., Jr.: *See*—
Boothroyd, Wilson P., and Hartley.

Hartwig, Edward C., and W. E. Large, Tonawanda, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control apparatus. 2,588,523, Mar. 11.

Harvey, James L., Alliance, Ohio, assignor to The Babcock & Wilcox Company, Jersey City, N. J. Fuel burning means. 2,588,833, Mar. 11.

Haskell, James B., assignor to West Virginia Steel and Manufacturing Company, Huntington, W. Va. Wheel rerailer. 2,589,077, Mar. 11.

Hatton, William, South Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y. Calculator. 2,588,923, Mar. 11.

Hawkes, John A.: *See*—
Allen, James J., and Hawkes.

Hawthorne, Louis A.: *See*—
Honnig, Roland W., and Hawthorne.

Hawthorne, William R., Silver Spring, Md., assignor to Power Jets (Research and Development) Ltd., London, England. Aircraft propulsion power plant. 2,589,078, Mar. 11.

Healvilin, Charles R., assignor to W. L. and G. W. Speicher, Indianola, Iowa. Combination ladder. 2,589,079, Mar. 11.

Hecht, Maynard L., Jackson Heights, N. Y. Electronic trigger circuit. 2,588,924, Mar. 11.

Hecht, Maynard L., Jackson Heights, N. Y. Electronic trigger circuit. 2,588,925, Mar. 11.

Hedstrom, Eric L., M. C. Otto, and C. E. Gooderham, Buffalo, N. Y. Box or carton stripper machine. 2,588,384, Mar. 11.

Hefel, Karl, Innsbruck, Austria. Control for Diesel-electric drives. 2,588,627, Mar. 11.

Heiland, Albert H., Seattle, Wash. Fishing spoon. 2,588,720, Mar. 11.

Heinish, George, assignor to The Star Drilling Machine Company, Akron, Ohio. Power-operated telescoping mast and braces. 2,589,080, Mar. 11.

Helene Brassiere Company, Inc., assignee: *See*—
Anderson, Margaret K.

Heller, Julius, Portsmouth, Va. Power take-off device for wheeled tractors. 2,588,721, Mar. 11.

Hemphill Company, assignee: *See*—
Green, Isaac H. C.

Hendershott, Robert W., Klamath Falls, Oreg. Portable and collapsible pole vaulting and high jumping pit. 2,588,722, Mar. 11.

Henderson, William S., Glasgow, Scotland. Wire-drawing tension device. 2,588,834, Mar. 11.

Henkel-Clauss Company, The, assignee: *See*—
Carlson, Bert G., and Borcz.

Henry, Robert E.: *See*—
Bendix, Gordon H., Henry, and Strodtz.

Herbert, Earl, St. Joseph, Mo. End casting and retrieving reel. 2,588,524, Mar. 11.

Herman, Harry H., Denver, Colo. Converting air conditioning systems. 2,588,723, Mar. 11.

Hernblad, Nils G.: *See*—
Walden, Lester M., and Hernblad.

Hertenstein, Edgar W., Jr., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method of and apparatus for guiding filaments. 2,588,525, Mar. 11.

Hertz, William A., Shaker Heights, Ohio. Lubricating device. 2,589,081, Mar. 11.

Herzstark, Curt, Mauren, Liechtenstein, assignor to "Contina" Buro-und Rechenmaschinenfabrik A. G., Mauren, Principality of Liechtenstein. Independent actuator tens-transfer mechanism. 2,588,835, Mar. 11.

Hickey, Henry J., Wollaston, Mass. Counter bin construction. 2,589,082, Mar. 11.

Higbie, Alan L., Walled Lake, and C. A. Stanim, Royal Oak, assignors to Chrysler Corporation, Highland Park, Mich. Door seal construction. 2,588,628, Mar. 11.

High Voltage Engineering Corporation, assignee: *See*—
Burrill, Ernest A., and Smith.

Hill, George B., Ottumwa, Iowa, assignor to Deere Manufacturing Co. Slack puller for bale tiers. 2,589,083, Mar. 11.

Hill, Hubert M.: *See*—
Towne, Edmund B., and Hill.

Hillmer, Herman H., and H. P. Orent, assignors to Printing Engineers Incorporated, Omaha, Nebr. Printing apparatus. 2,588,385, Mar. 11.

Hoage, Clyde C., Ely, Minn. Bait holder. 2,588,526, Mar. 11.

Hobbs, Howard F., and J. A. Thompson, assignors to Hobbs Transmission Limited, Leamington Spa, England. Friction clutch and brake. 2,588,724, Mar. 11.

Hobbs Transmission Limited, assignee: *See*—
Hobbs, Howard F., and Thompson.

Hodges, Howard T., assignor to Eastman Kodak Company, Rochester, N. Y. Normalizing device for gear train shutter retards. 2,588,980, Mar. 11.

Hoffman, Sven A., Pittsburgh, Pa., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Current transformer short circuiting switch. 2,589,084, Mar. 11.

Hogan, Billie I., assignor to Edgar Anspacher, Los Angeles, Calif. Apparatus for producing rolls of upholsterer's felt of uniform length and weight. 2,588,725, Mar. 11.

Holden, Phillip F., Norfolk, Va., assignor to Westinghouse Air Brake Company. Arrangement for controlling special indications of distant signals. 2,588,836, Mar. 11.

Hole, William L., Honolulu, Territory of Hawaii. Photoelectric fluid inspection and control device. 2,588,981, Mar. 11.

Hollingshead Corporation, assignee: *See*—
Esposito, Vito.

Holm, Johan A., Malatrask, Sweden. Automatic fishing reel brake. 2,588,837, Mar. 11.

Holmes, Robert G., Bridgeport, Conn., assignor to General Electric Company. Temperature responsive control circuit. 2,588,926, Mar. 11.

Holmes, Trent H., Middletown, assignor, by mesne assignments, to Niles-Bement-Pond Company, Hartford, Conn. Relief valve construction. 2,588,527, Mar. 11.

Holst, Gilles: *See*—
Rodenburg, Gudo H., and Holst.

Honnig, Roland W., Plainfield, and L. A. Hawthorne, Hillside, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Block molding apparatus. 2,588,838, Mar. 11.

Hoover, Charles D.: *See*—
Reynard, Chauncey G., and Hoover.

Hoover, James K., Huntington, W. Va. Terminal block. 2,588,726, Mar. 11.

Horn, Joseph G., Drexel Hill, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Pneumatic control apparatus. 2,588,839, Mar. 11.

Houdry Process Corporation, assignee: *See*—
Band, George R., Jr.
Milliken, Thomas H., Jr.

Houghton, William D., Port Jefferson, N. Y., assignor to Radio Corporation of America. Electronic timing device. 2,589,085, Mar. 11.

Houseweart, Harold W., Benton, Pa. Milk can cooler. 2,588,927, Mar. 11.

Howard, Kevin E., Takoma Park, Md. Disposable dish and base therefor. 2,588,727, Mar. 11.

Howe Machinery Company, Inc., assignee: *See*—
Mitchell, Clyde O.

Howland, Walter L., Glendale, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Temperature probe. 2,588,840, Mar. 11.

Howser, Claude M., assignor to California Thimble Corporation, Santa Barbara, Calif. Finger shaped thimble. 2,588,528, Mar. 11.

Hoy, Thomas J., Newark, N. J. Steam locomotive admission and exhaust piston valve. 2,588,841, Mar. 11.

Hubbard, Charles L., Huntington, Ind., and A. Capecelatro, Madison, N. J. Automatic graph tracker and method. 2,588,386, Mar. 11.

Hughes, Thomas E., Mobile, Ala., assignor of one-half to W. A. Wood. Puncture-type tester for airplane fabrics. 2,588,387, Mar. 11.

Hull, David C., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Oxidation of alkyl-substituted cyclohexanes using aldehyde-activated catalysts. 2,588,388, Mar. 11.

Hull, Philip C., assignor to The Parker Pen Company, Janesville, Wis. Ball point writing instrument. 2,588,629, Mar. 11.

Hume, George B., Kansas City, assignor to Hume Manufacturing Company, North Kansas City, Mo. Spool rack. 2,588,529, Mar. 11.

Hume Manufacturing Company, assignee: *See*— Hume, George B.

Humpal, Eugene G., and R. O. Balogh, Cleveland, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo. Jib crane. 2,588,928, Mar. 11.

Hundstad, Richard L., Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Combustion chamber with diverse combustion and diluent air paths. 2,588,728, Mar. 11.

Hunter Douglas Corporation, assignee: *See*— Martin, Thomas A., and Hunter.

Hunter, Joseph L.: *See*— Martin, Thomas A., and Hunter.

Hutt, Arthur R., Hopatcong, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Adjustable hose support and feeder. 2,588,842, Mar. 11.

Hydrocarbon Research, Inc., assignee: *See*— Layng, Edwin T.

Ifield, Richard J., Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England. Apparatus for supplying liquid fuel to the combustion chamber of, and controlling the quantity of motive air in, hot-air engines. 2,588,530, Mar. 11.

Iler, Ralph K., Cleveland Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing silicic acid sols. 2,588,389, Mar. 11.

Ilford Limited, assignee: *See*— Kendall, John D., and Suggate.

Illinois Tool Works, assignee: *See*— Poupitch, Ouglijesa J.

Imperial Chemical Industries Limited, assignee: *See*— Whittaker, Donald, and Allen.

Industrial Devices Corporation, assignee: *See*— Landergren, Sture G. G.

Ingersoll-Rand Company, assignee: *See*— Yerger, Paul A.

Injection Molding Company, assignee: *See*— Archer, William K.

Innes, Walter P., Jr., assignee: *See*— Bidwell, Earl E.

Institutum Divi Thomae Foundation, The, assignee: *See*— Sperti, George.

Interchemical Corporation, assignee: *See*— Kumins, Charles A., and Greening.

Interior, United States of America as represented by the Secretary of the, assignee: *See*— Eilerts, Charles K. Stringfield, Theodore W. Zadra, John B.

International Standard Electric Corporation, assignee: *See*— Cabes, Lucien A. B. Hatton, William.

Iowa State College Research Foundation, Inc., assignee: *See*— Boast, Warren B., and Ryder.

Ives, Charles E., assignor to Eastman Kodak Company, Rochester, N. Y. Direct positive photographs using hydrazine in the emulsion. 2,588,982, Mar. 11.

Irvin, Leslie L., assignor to Irving Air Chute Co., Inc., Buffalo, N. Y. Parachute pack and harness construction. 2,589,086, Mar. 11.

Irving Air Chute Co., Inc., assignee: *See*— Irvin, Leslie L.

Iwald, Johan C., Rorosjon, Sweden. Hand loom. 2,588,843, Mar. 11.

Jackman, Richard L., Ferndale, assignor to Chrysler Corporation, Highland Park, Mich. Testing apparatus. 2,588,630, Mar. 11.

Jacob, Robert H., assignee: *See*— Engelhardt, Eugen.

Jacobus, Robin A., Glendora, Calif. Magazine for stapling tools. 2,588,929, Mar. 11.

Jacoby, Arthur L.: *See*— Bird, Paul G., and Jacoby.

James, Emrys G.: *See*— Brittain, Francis H., and James.

James, Robert M., Buffalo, N. Y. Wall anchoring device. 2,588,631, Mar. 11.

Jardine, Donald J., Regina, Saskatchewan, Canada. Cutting device for severing a portion of tape unwound from a roll. 2,588,729, Mar. 11.

Jarvi, Reino, Toronto, Ontario, Canada. Collapsible boat. 2,589,087, Mar. 11.

Jeffrey Manufacturing Company, The, assignee: *See*— Mercier, Stanley M. Moon, Sterling C. Warsmith, Harry R.

Jeffrey, Max L., Shaker Heights, Ohio. Switch. 2,588,632, Mar. 11.

Joel, Amos E., Jr.: *See*— Flint, Erlon W., Hague, Joel, and Rippere.

Johns-Manville Corporation, assignee: *See*— Greiner, Norman S. Honnig, Roland W., and Hawthorne.

Johnson, Andrew G., Lakewood, assignor to The Weatherhead Company, Cleveland, Ohio. Multiple valve body. 2,588,983, Mar. 11.

Johnson, Arthur L., Roselle Park, N. J. Electric soldering iron. 2,588,531, Mar. 11.

Johnson, Ernest W., Everett, assignor to Transducer Corporation, Boston, Mass. System and apparatus for controlling the supply of power to electric motors. 2,858,633, Mar. 11.

Johnson, John A., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Jet propulsion unit. 2,588,532, Mar. 11.

Johnson, John A., Stoke-on-Trent, England. Drying clayware and other goods. 2,589,088, Mar. 11.

Johnson, Oscar W., Rochester, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio. Automatic control and safety cover for extractors. 2,588,634, Mar. 11.

Johnson, Roy W., Milwaukee, Wis. Motor control system for fuel pumps. 2,389,089, Mar. 11.

Johnson, Victor, Providence, R. I. Paper pulp screen plates and support means for the same. 2,588,533, Mar. 11.

Johnson, Wayne R., Los Angeles, Calif. Method and apparatus for frequency response measurement. 2,588,730, Mar. 11.

Johnston, John M., Elkins Park, Pa., assignor to The Bethlehem Silk Company, New York, N. Y. Retractable ribbon dispenser. 2,589,192, Mar. 11.

Johnston, Robert M.: *See*— Price, Forrest M., and Johnston.

Jones, Francis T.: *See*— Young, Frank E., and Jones.

Jones, Ira M., assignee: *See*— Brooks, Lewis C.

Jones, James R., Lakewood, F. H. Bloomstran, and V. A. Gronberg, assignors to Art Metal Construction Company, Jamestown, N. Y. Insertable platform for desks. 2,588,844, Mar. 11.

Jones, Mack C., Unionville, Conn. High-frequency power measuring device. 2,588,390, Mar. 11.

Jörgensen, Anders O., Hallebergsvagen, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Electromagnetic relay with adjustable lever-relation. 2,588,534, Mar. 11.

Joy Manufacturing Company, assignee: *See*— Paget, Win W.

Joyce-Cridland Company, The, assignee: *See*— Grushon, Harold N. Webster, Warren, and Berk.

Julian, Percy L., Maywood, E. W. Meyer, and H. Printy, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio. 16-alkyl steroids and preparing. 2,588,391, Mar. 11.

Julian, Percy L., Maywood, S. J. Circle, Chicago, Ill., and R. T. MacDonald, Minneapolis, Minn., assignors to The Glidden Company, Cleveland, Ohio. Improving alkali-soluble acid-precipitable vegetable protein. 2,588,392, Mar. 11.

Junkin, Newton R., Detroit, Mich. Display device. 2,588,635, Mar. 11.

Kabanuck, Nicholas J., San Rafael, Calif. Opener for canned liquids. 2,588,731, Mar. 11.

Kadeřávek, Václav, Gottwaldov-Otrokovice, assignor to Svit, narodni podnik, Gottwaldov, Czechoslovakia. Apparatus for feeding leather to smoothing presses. 2,588,845, Mar. 11.

Kahn, Leo M., Island Park, N. Y. Washing and the extraction of wash water. 2,588,535, Mar. 11.

Kaiser-Frazer Corporation, assignee: *See*— Maxwell, John A.

Kane, Joseph F., Evanston, Ill. Combination cooking device. 2,588,846, Mar. 11.

Kaplan, Julius, Springfield, Mass. Sleeping bag. 2,588,536, Mar. 11.

Kasprow, Anthony F., assignee: *See*— Swanson, Bror W.

Kasprow, Felix A., assignee: *See*— Swanson, Bror W.

Kasprow, Joseph W.: *See*— Swanson, Bror W.

Kasprow, Stephen G.: *See*— Swanson, Bror W.

Kassel, Morris B.: *See*— Eliscu, Frank, and Kassel.

Katzenmeyer, Edwin B.: *See*— Leguillon, Charles W., and Katzenmeyer.

Kauppi, Toivo A., assignor to Dow Corning Corporation, Midland, Mich. Organosiloxane coating composition containing methylhydrogensiloxane fluid and dimethylpolysiloxane high polymer. 2,588,393, Mar. 11.

Kearney & Trecker Corporation, assignee: *See*— Parsons, Fred A.

Keiser, Bernhard: *See*— De Groote, Melvin, and Keiser.

Kelly, Hugh T., Wiseton, Saskatchewan, Canada. Smoker's appliance. 2,588,537, Mar. 11.

Kelsey-Hayes Wheel Company, assignee: *See*— Sinclair, Charles W.

Kelvin & Hughes Limited, assignee: *See*— Reilly, Hugh L., and Seymour.

Kemp, John H., Jr., San Carlos, Calif. Apparatus for handling loads. 2,588,732, Mar. 11.

Kendall, Hugh C., Rochester, and L. H. Orpin, Greece, assignors to General Railway Signal Company, Rochester, N. Y. Airway traffic control system. 2,588,930, Mar. 11.

Kendall, Hugh C., Rochester, and L. H. Orpin, Greece, assignors to General Railway Signal Company, Rochester, N. Y. Airway traffic control system. 2,588,931, Mar. 11.

Kendall, John D., and H. G. Suggate, assignors to Ilford Limited, Ilford, England. Stabilizers in photographic emulsions and developers. 2,588,538, Mar. 11.

Kenosha Auto Transport Corporation, assignee: *See*— Demos, George.

Kepner, Robert C., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Spring bumper and draft gear. 2,588,848, Mar. 11.

Kerwin, James F., and G. E. Ullyot, assignors to Smith, Kline & French Laboratories, Philadelphia, Pa. Hydroxyethylamino fluorenes. 2,588,849, Mar. 11.

Kesling, Elmer G., assignor of one-half to G. M. Kesling, Bloomfield, Mo. Calculator. 2,588,539, Mar. 11.

Kesling, Gladys M., assignee: *See*— Kesling, Elmer G.

Kessler, Lee H., Springville, N. Y. Rotor for stone crushing apparatus. 2,588,847, Mar. 11.

Kestell, Thomas A., Thurmaston, assignor to Power Jets (Research & Development) Limited, London, England. Gearing. 2,589,090, Mar. 11.

Kihlberg, Sven G., assignee: *See*— Landergren, Sture G. G.

Kihn, Harry, Lawrenceville, N. J., assignor to Radio Corporation of America. Mechanical modulator. 2,589,091, Mar. 11.

Kihn, Harry, Lawrenceville, and C. Wentworth, Princeton, N. J., assignors to Radio Corporation of America. Variable capacitor. 2,589,092, Mar. 11.

Kinnard, Frank M., assignee: *See*— Cope, William E.

Kish, George D.: *See*— Risley, Roger E., and Kish.

Kitto, William H.: *See*— McNaster, Archie J., and Kitto.

Klingenberg, Winfield S., Stamford, Conn. Positioning mechanism. 2,588,932, Mar. 11.

Klouman, Henning, and C. Nygren, Michigan City, Ind., assignors to Michiana Products Corporation. Coiling reel for Steckel mills. 2,589,093, Mar. 11.

Knox, Albert, Vancouver, British Columbia, Canada. Aerial transporter. 2,588,733, Mar. 11.

Kobos, Frank, Sr., Houston, Tex. Roller jewel setting tool. 2,588,850, Mar. 11.

Kolstinen, Arnold A., Madison, S. Dak. Thread box. 2,588,540, Mar. 11.

Kolodney, Morris, New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Pretreatment of beryllium prior to coating. 2,588,734, Mar. 11.

Kompass, Frank O., New York, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Toaster. 2,588,851, Mar. 11.

Konopka, Joseph A., Detroit, Mich. Photographic enlarging mask. 2,589,094, Mar. 11.

Koppers Company, Inc., assignee: *See*— Corson, Ben B., and Kutz. Degiorgi, Eduard.

Korsgren, Theodore Y., Reynoldsburg, assignor to Crise Manufacturing Company, Columbus, Ohio. Noiseless self-aligning ball bearing. 2,588,636, Mar. 11.

Krantz, Ernest, Detroit, Mich. Retrieving device. 2,588,637, Mar. 11.

Krotz, Alvin S., Akron, and R. R. Cowden, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company New York, N. Y. Seat having torsion spring suspension. 2,588,638, Mar. 11.

Kubisiak, Chester S., Wisconsin Rapids, Wis. Conveyer carrier bar. 2,588,984, Mar. 11.

Kuehn, Harry E., Albany, N. Y. Can opening and contents dispensing device. 2,588,541, Mar. 11.

Kuh, Erwin, New Brunswick, N. J., assignor to American Cyanamid Company, New York, N. Y. Preparing beta-bromo, alpha chloro, beta-formyl acrylic acid. 2,588,852, Mar. 11.

Kumins, Charles A., Brooklyn, N. Y., and G. R. Greening, Radburn, N. J., assignors to Interchemical Corporation, New York, N. Y. Producing silica powder. 2,588,853, Mar. 11.

Kunz, Althea W., Minneapolis, Minn. Coverall garment. 2,588,542, Mar. 11.

Kunze, Walter G., and R. B. Evans, Catonsville, Md., assignors to Le Page's Inc., Gloucester, Mass. Polyvinyl acetate emulsion. 2,588,543, Mar. 11.

Kutz, Arthur O., Buffalo, N. Y., assignor to Fairbanks, Morse & Co., Chicago, Ill. Clutch with removable lining. 2,588,985, Mar. 11.

Kutz, Walter M. *See*— Corson, Ben B., and Kutz.

Laase, Charles A., Genoa, assignor to The Timken Roller Bearing Company, Canton, Ohio. Groove dressing tool. 2,589,191, Mar. 11.

Laidley, Clarence D., Tulsa, Okla. Vapor control system for storage tanks. 2,589,095, Mar. 11.

Lamb, Anthony H., Hillside, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Permanent magnet core meter. 2,588,394, Mar. 11.

Landergren, Sture G. G., Stockholm, assignor of one-half to S. G. Kihlberg, Hjo, Sweden, and one-half to Industrial Devices Corporation, Detroit, Mich. Motion transmitting arrangement. 2,589,096, Mar. 11.

Landon, Harold J., Grand Blanc, Mich. Artificial fish bait with weighted hook member. 2,589,007, Mar. 11.

Lang, Helen E., Lima, Ohio. Mattress holder. 2,588,854, Mar. 11.

Lange, Willy, Cincinnati, and R. G. Folzenlogen, Columbia Township, assignors to The Procter and Gamble Company, Ivorydale, Ohio. Retardation of development of reversion flavor in hydrogenated fats and oils. 2,589,097, Mar. 11.

Langer, Joseph A., assignor to A. S. Lathan, San Francisco, Calif. Brace support for steering idler arms. 2,588,544, Mar. 11.

Lannan, George M., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Apparatus for forming fibrous mats. 2,589,008, Mar. 11.

Lannen, Joseph P., assignor to Micro-Poise Engineering and Sales Company, Detroit, Mich. Disk flexing and installing apparatus. 2,588,395, Mar. 11.

Lanpher, Henry C., Alexandria, Va. Protective enclosure for drinking containers. 2,589,098, Mar. 11.

Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Gear clutch mechanism. 2,588,855, Mar. 11.

LaRaus, Julius, Westport, Conn. Rotary spray arm for washing machines. 2,588,856, Mar. 11.

Large, William E.: *See*— Hartwig, Edward C., and Large.

Larkin, Lincoln M., Libertyville, assignor to Linklark, Inc., Chicago, Ill. Vending machine. 2,589,099, Mar. 11.

Lathan, Alex S., assignee: *See*— Langer, Joseph A.

Latour, André, Grenoble, France. Switch with pressure fluid arc extinguishing. 2,588,933, Mar. 11.

Lawrence, Jay, Philadelphia, Pa. Display device for illuminated transparencies. 2,588,545, Mar. 11.

Lawson, Dennis I., and A. V. Lord, assignors to Pye Limited, Cambridge, England. Television receiver with sound recurring as pulses during blanking periods. 2,589,100, Mar. 11.

Layng, Edwin T., assignor to Hydrocarbon Research, Inc., New York, N. Y. Hydrocarbon synthesis using a spent ammonia synthesis catalyst. 2,588,452, Mar. 11.

Lee, Leighton, II, Rocky Hill, assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Control apparatus for internal-combustion engines. 2,588,546, Mar. 11.

Lee, Leighton, II, Rocky Hill, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Fuel control system. 2,588,547, Mar. 11.

Lee, Robert J., La Marque, and P. D. May, Galveston, assignors to Pan American Refining Corporation, Texas City, Tex. Production of drying oils by HF-hydrocarbon processing. 2,588,639, Mar. 11.

Legat, Robert C., New Britain, assignor to The G. E. Prentice Mfg. Co., Kensington, Conn. Key case. 2,588,857, Mar. 11.

Leguillon, Charles W., Akron, and Edwin B. Katzenmeyer, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Lift truck fork tube. 2,589,101, Mar. 11.

Lehmann, František, Chomutov, Czechoslovakia. Circuit arrangement for discharge tubes, particularly glow discharge tubes. 2,588,858, Mar. 11.

Lehmann, René L., Paris, and J. Lintner, La Garenne Colombes, assignors to Bozel-Maletra Societe Industrielle de Produits Chimiques, Paris, France. Hydrofugation of textile materials. 2,588,640, Mar. 11.

Leighton, John W., Port Huron, Mich. Antisway bar. 2,589,009, Mar. 11.

Lely, Jan A.: *See*— Dippel, Cornelis J., Lely, and Dikhoff.

Le Page's Inc., assignee: *See*— Kunze, Walter G., and Evans.

Letourneau, Emile G., Winfield, Alberta, Canada. Belt-drive log-turning nigger. 2,588,735, Mar. 11.

Le Tourneau, R. G., Inc., assignee: *See*— Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Wheeled crane. 2,589,102, Mar. 11.

Lever Brothers Company, assignee: *See*— Van Loon, Christiaan, Smit, and van Alkemade.

Levin, Robert H., A. V. McIntosh, Jr., and G. B. Spero, assignors to The Upjohn Company, Kalamazoo, Mich. Pyrolysis of steriod products. 2,588,396, Mar. 11.

Libbey-Owens-Ford Glass Company, assignee: *See*— Barkley, Dwight W. Drake, John L. Weinrich, Arthur R.

Lilly, Eli, and Company, assignee: *See*—
Pohland, Albert.

Lindbeck, Howard R., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Circuit breaker. 2,589,010, Mar. 11.

Lindblom, Frank W., Warwick, R. I., assignor to Welsh Manufacturing Company. Inlaid ophthalmic mounting method. 2,589,103, Mar. 11.

Lindeman, Jesse G., Yakima, Wash., assignor, by mesne assignments, to Deere & Company, Moline, Ill. Hydraulic tool supporting structure. 2,589,104, Mar. 11.

Linker Machines, Inc., assignee: *See*—
Demarest, Daniel D.

Linklark, Inc., assignee: *See*—
Larkin, Lincoln M.

Lintner, Josef: *See*—
Lehmann, René L., and Lintner.

Lipic, Sylvester G., Sappington, F. F. Boyle, St. Louis, and L. S. Lyon, Webster Groves, assignors, to Ritepoint Co., St. Louis, Mo. Closure for table cigarette lighters. 2,589,011, Mar. 11.

Lipton, Bernard, Leicester, England. Air conditioning and/or humidifying apparatus. 2,588,736, Mar. 11.

Lockheed Aircraft Corporation, assignee: *See*—
Howland, Walter L.
Pinaire, John S.
Pittman, Kenneth F.

Longenecker, Charles I., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Valve for plastic concrete pressure. 2,589,012, Mar. 11.

Lord, Arthur V.: *See*—
Lawson, Dennis I., and Lord.

Lovell, Clarence A., Summit, and D. B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spaced-pulse impulse sender. 2,588,397, Mar. 11.

Lucas, Joseph, Limited, assignee: *See*—
Clarke, John S., and Goddard.
Harris, Thomas A.
Ifield, Richard J.

Ludl, John, Toms River, N. J. Poultry feeder and waterer. 2,588,737, Mar. 11.

Luening, William D.: *See*—
Moise, James E., and Luening, and Daroux.

Lumbard, Henry G., Auburn, Maine. Process of and apparatus for slitting and stretching insole material. 2,588,859, Mar. 11.

Lummus Cotton Gin Company, assignee: *See*—
Vandergriff, Arvel L.

Lundgren, Axel G., Vasteras, Sweden. Tool for securing cable clamps. 2,588,738, Mar. 11.

Lundstrom, Ida, St. Louis, Mo. Curtain raising and lowering fixture. 2,588,641, Mar. 11.

Lundy, Alvin S.: *See*—
Schneible, Claude B., and Lundy.

Lyon, Luther S.: *See*—
Lipic, Sylvester G., Boyle, and Lyon.

MacDonald, Robert T.: *See*—
Julian, Percy L., Circle, and MacDonald.

Mackie-Lovejoy Manufacturing Co., assignee: *See*—
Crockett, William P., Jr.

Macklin, Justin W., trustee, assignee: *See*—
Tegarty, John B.

Magerlein, Barney J.: *See*—
Newman, Melvin S., and Magerlein.

Main, Everett G., assignor to Main Flo-Control Traffic Light, Inc., Ann Arbor, Mich. Traffic light accessory. 2,588,739, Mar. 11.

Main Flo-Control Traffic Light, Inc., assignee: *See*—
Main, Everett G.

Maiocchi, Dario, Los Angeles, Calif. Pattern machine. 2,589,105, Mar. 11.

Maim, William A. R., New Orleans, La. Kineto-optical scanning with modulated light beam in television image projection. 2,588,740, Mar. 11.

Malsbary, James S., Glendale, assignor to Wagner Electric Corporation, St. Louis, Mo. Antibacklash coupling. 2,588,642, Mar. 11.

Manville, Charles T.: *See*—
Gow, Arthur R., and Manville.

Marien, Charles A., St. Louis, Mo., assignor, by mesne assignments, to Ramsey Corporation. Piston packing ring. 2,589,106, Mar. 11.

Marien, Melvin W., St. Louis, Mo., assignor, by mesne assignments, to Ramsey Corporation. Piston packing ring. 2,589,107, Mar. 11.

Mark, Jacob G., Brookline, Mass., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of War. Chlorinated lime composition. 2,589,108, Mar. 11.

Markes, Orland W., Detroit, Mich. Ink applicator for typewriter ribbons. 2,588,548, Mar. 11.

Marks, Milton, Pittsburgh, Pa. Screw-hole liner. 2,588,860, Mar. 11.

Marsh, John W., Alexandria, Va. Throttle valve application. 2,588,549, Mar. 11.

Martin, Homer Z., Roselle, and F. T. Barr, Summit, N. J., assignors to Standard Oil Development Company. Fluidized distillation of shale. 2,589,109, Mar. 11.

Martin, Lewis W., Lancaster, Pa. Combined back and headrest. 2,589,013, Mar. 11.

Martin, Thomas A., and J. L. Hunter, assignors to Hunter Douglas Corporation, Riverside, Calif. Venetian blind ladder. 2,588,550, Mar. 11.

Mason, Darrell V.: *See*—
Oberbeck, August L., and Mason.

Mason-Neilan Regulator Company, assignee: *See*—
Robins, John W.

Massey-Harris Company, assignee: *See*—
Everett, Charles V.

Mast, William C., Philadelphia, and C. H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Preparation of granular polymers. 2,588,398, Mar. 11.

Mathys, Max A., assignor to Ex-Cell-O Corporation, Detroit, Mich. Variable delivery pump. 2,588,861, Mar. 11.

Matthiesen, Benhard A., San Antonio, Tex. Toothed ice-crusher drum. 2,588,741, Mar. 11.

Maurer, Hiram V.: *See*—
Phelps, Herbert S., Curtis, and Maurer.

Maxwell, John A., Detroit, assignor to Kaiser-Frazer Corporation, Willow Run, Mich. Automobile body front pillar. 2,588,643, Mar. 11.

May, Paul D.: *See*—
Lee, Robert J., and May.

Mayne, Robert, assignor to Goodyear Aircraft Corporation, Akron, Ohio. Airfoil, and particularly helicopter blade. 2,589,193, Mar. 11.

Mayo, Edward L., Cleveland, Ohio, assignor to Teledex, Inc., New York, N. Y. Universal mounting frame for use with telephones. 2,588,862, Mar. 11.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McCabe-Powers Auto Body Co., assignee: *See*—
Humpal, Eugene G., and Balogh.

McCain, George L., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Electromechanical transmission. 2,588,751, Mar. 11.

McCallum, Donald M., Edinburgh, Scotland, assignor to Ferranti Limited, Hollinwood, England. Servo control system. 2,588,742, Mar. 11.

McCallum, Donald M., Edinburgh, Scotland, assignor to Ferranti Limited, Hollinwood, England. Servo control system. 2,588,743, Mar. 11.

McClellan, James M., Jr.: *See*—
Wehmer, Frederick J., and McClellan.

McCoy, David O: *See*—
Hancock, Noel W., and McCoy.

McCoy, Marcus A., Los Angeles, assignor to United Geophysical Company, Inc., Pasadena, Calif. Frequency modulation. 2,588,551, Mar. 11.

McCurdy, Howard, Walnut Park, Calif. Spherical shell fluid separator. 2,588,863, Mar. 11.

McDevitt, John J., assignee: *See*—
Di Renzo, Vincent P.

McGowan, Kenneth J. J.: *See*—
Bone, Herbert L., and McGowan.

McIntosh, A. Vern, Jr.: *See*—
Levin, Robert H., McIntosh, and Spero.

McKechnie, Ian C., Detroit, assignor to Elox Corporation of Michigan, Clawson, Mich. Automatic electric space-discharge material removal method and apparatus. 2,588,744, Mar. 11.

McKenzie, Clarence Y., Courtenay, British Columbia, Canada. Rapidly adjustable press. 2,588,745, Mar. 11.

McKinley, Boyd R., Long Beach, Calif. Formation tester and pipe perforator. 2,588,746, Mar. 11.

McLeod, John H., assignor to Eastman Kodak Company, Rochester, N. Y. Focusing view finder system. 2,589,014, Mar. 11.

McLeod, Roy D., Detroit, assignor of two-thirds to W. Carls, Milford, Mich., and one-third to S. L. Brussel and Detroit Trust Company, coexecutors of F. H. Brussel, deceased. Pilot valve. 2,588,552, Mar. 11.

McLeod, Stewart B., Dearborn, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich. Hydraulic power unit. 2,588,644, Mar. 11.

McMaster, Archie J., and W. H. Kitto, assignors to G-M Laboratories, Inc., Chicago, Ill. Overload release mechanism. 2,589,194, Mar. 11.

McQuay-Norris Manufacturing Company, assignee: *See*—
Smith, Dallas M.

McQuin, Clarence F., Milwaukee, Wis. Scaffold support. 2,588,399, Mar. 11.

McRoberts, Charles G., Brooklyn, N. Y. Artificial bait. 2,588,400, Mar. 11.

McWethy, Arthur, Grand Rapids, Mich. Welder's eye shield. 2,588,553, Mar. 11.

Meltsner, Harry F., Charlotte, N. C., assignor to Radiator Specialty Company. Flush tank ball valve. 2,589,110, Mar. 11.

Mercer, James A., assignee: *See*—
Abel, James A., and Mercer.

Mercer, Paul W.: *See*—
Abel, James A., and Mercer.

Mercier, Stanley M., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Conveyer shaft counterbalancing and indicating apparatus. 2,588,864, Mar. 11.

Mercury Engineering Corporation, assignee: *See*—
Baumgartner, John R.

Merrington, Robert S.: *See*—
Carlson, Carl S., Merrington, and Biribauer.

Merz, Max, Seattle, Wash., assignor to Engineering Research, Inc. Chain saw. 2,589,015, Mar. 11.

Metallizing Engineering Co. Inc., assignee: *See*—
Shepard, Arthur P.

Metzler, Charles L.: *See*—
Schladermundt, Peter, and Metzler.

Meyer, Edwin W.: *See*—
Julian, Percy L., Meyer and Printy.

Meyer, Ferdinand C., Kirkwood, assignor to Monsanto Chemical Company, St. Louis, Mo. Purification of gentisic acid. 2,588,336, Mar. 11.

Meynig, Robert E., La Porte, Tex. Removing paraffin from wells. 2,588,554, Mar. 11.

Michatek, Chester W., assignor to Eastman Kodak Company, Rochester, N. Y. Automatic round head screw stick driver. 2,589,016, Mar. 11.

Michels, Bernard H.: *See*—
Charters, George W., and Michels.

Michiana Products Corporation, assignee: *See*—
Klouman, Henning and Nygren.

Micronizer Company, The, assignee: *See*—
Trost, Conrad.

Micro-Poise Engineering and Sales Company, assignee: *See*—
Lannen, Joseph P.

Miers, Archie M., Croton-on-Hudson, N. Y., assignor to Chrysler Corporation, Highland Park, Mich. Brake beam balancing link. 2,588,645, Mar. 11.

Miller, Charles W., Sale, England, assignor to General Electric Company. Wave guide switch. 2,588,934, Mar. 11.

Miller, William A., near Weston, Colo. Floor-laying tool. 2,588,401, Mar. 11.

Miller, William A., Elizabeth, and T. W. Ratcliffe, Westfield, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Insulating fire brick and manufacture. 2,588,646, Mar. 11.

Milliken, Thomas H., Jr., Chester, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Process and apparatus for producing hydrogel beads. 2,588,402, Mar. 11.

Mills, John H., assignor to G. Troiz, Jackson, Mich. Oil bath air cleaner construction. 2,589,111, Mar. 11.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Booth, John G.
Eckman, Donald P.
Horn, Joseph G.
Stutzman, Warren S.
Wills, Walter P.

Minneapolis-Moline Company, assignee: *See*—
Haigren, Henry A., and Albertson.
Swenson, William E., and Haigren.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Wehmer, Frederick J., and McClellan.

Minter, Clarke C., Washington, D. C. Compensated convection current responsive instrument. 2,588,403, Mar. 11.

Missouri Automatic Control Corporation, assignee: *See*—
Allan, William J.

Mitchell, Clyde O., Clifton, N. J., assignor to Howe Machinery Company, Inc. Apparatus for making belts. 2,588,647, Mar. 11.

Moehler, Otto J., assignor to Conmar Products Corporation, Newark, N. J. Separable slide fasterner. 2,588,648, Mar. 11.

Moise, James E., and W. D. Luening, Baton Rouge, La., and W. G. Daroux, Coventry, England, assignors to Standard Oil Development Company. Absorption of ketene. 2,589,112, Mar. 11.

Moldenhauer, August J., Menfro, assignor of one-third to J. H. Bruninga, St. Louis County, Mo. Treating legumes. 2,588,865, Mar. 11.

Molloy James F., Oakland, Calif. Combined valve and water silencer. 2,588,555, Mar. 11.

Molnar, Imre, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Frequency modulated tone units. 2,589,113, Mar. 11.

Monsanto Chemical Company, assignee: *See*—
Benignus, Paul G.
Gamrath, Harry R., and Weesner.
Meyer, Ferdinand C.

Monson, Louis T., Alhambra, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Inhibiting scale deposition. 2,589,195, Mar. 11.

Monson Louis T., Alhambra, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Mixture of surface-active materials and making same. 2,589,196, Mar. 11.

Monson, Louis T., Alhambra, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Mixture of surface-active materials and making same. 2,589,197, Mar. 11.

Monson, Louis T., Los Angeles County, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking oil-in-water emulsions. 2,589,198, Mar. 11.

Monson, Louis T., Puente, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking emulsions of the oil-in-water class. 2,589,199, Mar. 11.

Monson, Louis T., Puente, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking emulsions of the oil-in-water class. 2,589,200, Mar. 11.

Monson, Louis T., Puente, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Breaking emulsions of the oil-in-water class. 2,589,201, Mar. 11.

Moon, Sterling C., Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Hydraulic transmission of the swash plate type pump and motor, and control mechanism therefor. 2,588,866, Mar. 11.

Moore, Caleb L., assignor of ten per cent to F. A. Bright, ten per cent to F. M. Bright, five per cent to E. B. Tritt and five per cent to E. D. Tritt, Roanoke Rapids, N. C. Pattern lathe. 2,589,017, Mar. 11.

Moore, Robert J., Oakland, and W. Saarni, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Manufacture of grease compositions. 2,588,556, Mar. 11.

Moran, Jesse N.: *See*—
Friedman, Alvin H., and Moran.

Morrell, Charles E., Westfield, F. A. Biribauer, Cranford, and C. S. Carlson, Roselle, N. J., assignors to Standard Oil Development Company. Distillation of oxo alcohols. 2,589,018, Mar. 11.

Morris, Elton K., assignor to The Dow Chemical Company, Midland, Mich. Pyrolytic production of chlorohydrocarbons. 2,588,867, Mar. 11.

Morris, Fred L., and A. W. Peterson, Portland, Oreg. Rack for holding Venetian blind slats. 2,588,557, Mar. 11.

Morse, John F., Hudson, Ohio. Combined throttle and clutch control for marine engines. 2,588,649, Mar. 11.

Morse, John F., Hudson, Ohio. Marine engine control. 2,588,650. Mar. 11.

Morton, Eldred O., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Steam iron vaporizing chamber. 2,588,747, Mar. 11.

Mosimann, Albert T., Jr., Houston, Tex. Connector block. 2,588,558, Mar. 11.

Motorola, Inc., assignee: *See*—
Budlane, Stanley J.
Dusek, Robert, and Budlane.
White, Raymond J.

Mueller, Robert H.: *See*—
Russell, Francis R., and Mueller.

Muenchinger, Herman G., South Foster, R. I. Fastening device and making same. 2,588,404, Mar. 11.

Mulanax, Walter W.: *See*—
Bausch, Evan J., and Mulanax.

Munger, Nelson W., Detroit, Mich. Folding table. 2,588,405. Mar. 11.

Munson, Ivan K., Forrest Heights, Md. Variable inductive coupler. 2,588,406, Mar. 11.

Murray, Christopher A., Nederland, Tex., assignor to The Pure Oil Company, Chicago, Ill. Prevention of ammonium sulfide corrosion. 2,589,114, Mar. 11.

N. V. P. F. van Vlissingen & Co.'s Katoenfabrieken, assignee: *See*—
Rodenburg, Gudo H., and Holst.

Nailmaster, Inc., assignee: *See*—
Brown, Harvey H., and Reed.
Brown, Harvey H., and Williams.

Napier, James W., deceased, Macon, Ga., assignor of one-tenth to W. J. Ruano, Pittsburgh, Pa.; M. H. Napier, executrix of estate of said J. W. Napier. Brooding method. 2,588,868, Mar. 11.

Napier, Margaret H., executrix: *See*—
Napier, James W.

National Aluminate Corporation, assignee: *See*—
Bird, Paul G., and Jacoby.

National Rejectors, Inc., assignee: *See*—
Foushee, Robert M., and Gottfried.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Hundstad, Richard L.

Needham, Simon P., Kansas City, Kans. Combination flashlight and continuity fuse tester. 2,588,559, Mar. 11.

Needle, Haskell C.: *See*—
Aries, Robert S., and Needle.

Nelson, Emil A., St. Clair Shores, Mich. Machine for rolling tapered disks. 2,588,651, Mar. 11.

Nelson, Morris D., Bronx, N. Y., assignor to Radio Corporation of America. High-voltage supply. 2,588,652, Mar. 11.

Nelson, Russell B., Beaverton, Oreg., M. Davies, and F. Neth, assignors to F. Neth, doing business as Columbia Machine Works, Vancouver, Wash. Machine for making concrete blocks. 2,589,115, Mar. 11.

Neth, Fred: *See*—
Nelson, Russell B., Davies, and Neth.

Neuroth, John, assignor to The Prosperity Company, Inc., Syracuse, N. Y. Valve operating means. 2,589,019, Mar. 11.

Neville Company, The, assignee: *See*—
Geiger, Lyle M.

Newman, Douglas A., Sea Cliff, assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Manifolding. 2,589,202, Mar. 11.

Newman, Melvin S., Columbus, Ohio, and B. J. Magerlein, Kalamazoo, Mich., assignors to the United States of America as represented by the Secretary of the Army. Insect repellent. 2,588,407, Mar. 11.

Nichols, Arthur A., Weston, assignor to W. H. Nichols Company, Waltham, Mass. Floating drive connection for metering pumps. 2,588,653, Mar. 11.

Nichols, W. H. Company, assignee: *See*—
Nichols, Arthur A.

Nicolls, Wilfrid E. W., Pinner, assignor to C. A. V. Limited, London, England. Stop. 2,588,560, Mar. 11.

Niles-Bement-Pond Company, assignee: *See*—
Chandler, Milton E.
Holmes, Trent H.
Lee, Leighton, II.

Niles, Joseph A., and N. B. Simpson, Tulsa, Okla., H. F. Sturgis, Noroton, Conn., R. P. Vincent, and C. W. Ziemer, assignors to Stanolind Oil and Gas Company, Tulsa, Okla. Apparatus for measuring well characteristics. 2,588,748, Mar. 11.

Nilsen, Martin L., Chicago, Ill. Reinforced sail. 2,589,203, Mar. 11.

Nilsson, Nils E., Mockeln, Sweden. Transportable lifting device. 2,588,749, Mar. 11.

Nims, Paul T., and A. Chadkewicz, Detroit, said Chadkewicz, now by change of name A. Chadwick, assignors to Chrysler Corporation, Highland Park, Mich. Electromechanical change-speed transmission. 2,588,750, Mar. 11.

Nissen, Warren I.: *See*—
Burchett, Ray L., and Nissen.

Noicken, Woldemar G., Headington, Oxford, assignor to Pressed Steel Company Limited, Oxford, England. Leak detecting lamp. 2,589,116, Mar. 11.

Nordstrom, John R., Portland, Oreg. Apparatus for opening compressed packages. 2,588,752, Mar. 11.

North, Harold D., Jr., Shaker Heights, assignor to The Engine Parts Manufacturing Company, Cleveland, Ohio. Spraying device. 2,589,020, Mar. 11.

Norton, James P., Chicago, Ill. Electrically operated compressor. 2,588,753, Mar. 11.

Novi, Sam B., Sharp Park, Calif. Infant's feeding table. 2,588,754, Mar. 11.

Noxon, Paul A., Tenafly, assignor to Bendix Aviation Corporation, Teterboro, N. J. Attitude indicator. 2,588,755, Mar. 11.

Nygren, Carl: *See*—
Klouman, Henning, and Nygren.

Nystrom, Karl T., Chicago, Ill., and A. L. Thompson, Munster, Ind., assignors to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Car coupler support and positioning device. 2,588,654, Mar. 11.

Oberbeck, August L., and D. V. Mason, Jefferson City, Mo. Fish lure. 2,589,117, Mar. 11.

Odin Corporation, assignee: *See*—
Svenson, Ernest J.

Offebro, William S., and W. E. Fleming, Stockton, Calif. Automobile air conditioner for drive-in theaters. 2,588,756, Mar. 11.

O'Leary, Charles M., Los Angeles, Calif. Oil well drilling transmission. 2,588,408, Mar. 11.

O'Leary, Charles M., Detroit, Mich. Automatic well-drilling mechanism. 2,589,118, Mar. 11.

O'Leary, Charles M., Los Angeles, Calif. Transmission for well-drilling machinery. 2,589,119, Mar. 11.

O'Leary, Charles M., Los Angeles, Calif. Power transmitting apparatus. 2,589,120, Mar. 11.

O'Leary, Charles M., Los Angeles, Calif. Automatic drilling machine. 2,589,121, Mar. 11.

Oliver United Filters Incorporated, assignee: *See*—
Denhard, Harry W.
Fuhrmeister, Charles, Jr.

Olmsted, Roger W.: *See*—
Reemelin, Wallace M., and Olmsted.

Olsen, Thomas S., Pleasantville, assignor to General Baking Company, New York, N. Y. Package and enclosed tray thereof. 2,588,409, Mar. 11.

Olson, Andrew, assignor of one-third to F. T. Rohm, and one-third to S. Guzzi, Bridgeport, Conn. Battery terminal connector. 2,589,122, Mar. 11.

Olson, Floyd E., Darlington, Wis. Bedspring support. 2,589,123, Mar. 11.

O'Neal, Theodore M., Delray Beach, Fla. Monolithic hollow wall. 2,589,021, Mar. 11.

O'Neill, Henry J., Waterbury, Conn., assignor to Benrus Watch Company, Inc., New York, N. Y. Expandable and contractible buckle. 2,588,655, Mar. 11.

Opp, Fred W., Costa Mesa, and W. H. Opp, Altadena, Calif. Apparatus for electrically treating the soil. 2,588,561, Mar. 11.

Opp, Walter H.: *See*—
Opp, Fred W. and W. H.

Oran, Edward, Astoria, N. Y. Telephone call counting device. 2,588,935, Mar. 11.

O'Reilly, Joseph A., Bellingham, Wash. Egg carton. 2,588,936, Mar. 11.

Orent, Henry P.: *See*—
Hillmer, Herman H., and Orent.

Orpin, Lionel H.: *See*—
Kendall, Hugh C., and Orpin.

Ottinger, August F.: *See*—
Brady, Charles V., and Ottinger.

Otto, Martin C.: *See*—
Hedstrom, Eric L., Otto, and Gooderham.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Lannan, George M.

Owens-Illinois Glass Company, assignee: *See*—
Welhart, Charles.

Packie, John W., Maplewood, N. J., assignor to Standard Oil Development Company. Method and apparatus for handling fluidized solids. 2,589,124, Mar. 11.

Page, Louis R., Jr., Radnor, and J. P. Croasdale, Jr., Daylesford, Pa., assignors, by mesne assignments, to Robert Gair Company, Inc., New York, N. Y. Apparatus and method for making plastic folding containers. 2,589,022, Mar. 11.

Paget, Win W., Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Method of and apparatus for treating gases. 2,588,656, Mar. 11.

Pan American Refining Corporation, assignee: *See*—
Lee, Robert J., and May.

Pardo, Luis G.: *See*—
Platero, Armando B., Pardo, and Bonsignore.

Parish, Warren J. L., Chicago, Ill. Bathtub seat. 2,588,562, Mar. 11.

Parker Pen Company, The, assignee: *See*—
Hull, Philip C.

Parkinson, David B.: *See*—
Lovell, Clarence A., and Parkinson.

Parsons, Fred A., Milwaukee, assignor to Kearney & Trecker Corporation, West Allis, Wis. Copying machine. 2,589,204, Mar. 11.

Pastula, Joseph A., Hartford, Conn. Match package. 2,589,125, Mar. 11.

Patent Button Company, The, assignee: *See*—
Clarke, Roilin R.

Pattner, Jacob, New York, N. Y. Governor operated steadying wheels for motorcycles. 2,589,023, Mar. 11.

Patton, William D.: *See*—
Dorfman, Hiller D., and Patton.

Paul, Richard M., Millard, Nebr. Rotary shelf refrigerator. 2,588,563, Mar. 11.

Pawlicki, Gerard S., Urbana, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Thermoelectrically balanced meter network. 2,588,564, Mar. 11.

Payne, Carlos B., assignor of twenty per cent to J. A. Bass, San Antonio, Tex. Golf club holding clip. 2,589,126, Mar. 11.

Pealer, Robert B., Garrettsville, assignor to Beaver Pipe Tools, Inc., Warren, Ohio. Switch lock for power-driven tools. 2,588,565, Mar. 11.

Peaslee, Robert L., Packanack Lake, N. J., assignor to Curtiss-Wright Corporation. Electrolytic process for stripping copper. 2,588,566, Mar. 11.

Peeples, Ernest E., Jr., Jacksonville, Fla. Tile marker. 2,588,757, Mar. 11.

Perfection Bed Spring Company, The, assignee: *See*—
Clark, Raymond K.

Perlman, Milton, Detroit, Mich. Humidifier. 2,588,567, Mar. 11.

Peter, Charles R., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Motor control system and switch. 2,589,024, Mar. 11.

Peterson, Arthur W.: *See*—
Morris, Fred L., and Peterson.

Peterson, Milo S., Leadville, Colo. Tire chain mounting tool. 2,588,568, Mar. 11.

Petrolite Corporation, Ltd., assignee: *See*—
De Groote, Melvin, and Keiser.
Monson, Louis T.

Phelps, Herbert S., H. C. Curtis, and H. V. Maurer, assignors to Curtis Development & Mfg. Co., Milwaukee, Wis. Multiposition switch. 2,589,025, Mar. 11.

Philco Corporation, assignee: *See*—
Boothroyd, Wilson P., and Hartley.

Phillips, Joseph A., Wichita, Kans., assignor to Curtiss-Wright Corporation. Flap operating means. 2,589,026, Mar. 11.

Phillips Petroleum Company, assignee: *See*—
Friedman, Alvin H., and Moran.
Fryling, Charles F., and Follett.
Garretson, Owen L.
Goodwin, Robert C.
Schneider, Valerie.

Picard, Robert G., Collingswood, N. J., assignor to Radio Corporation of America. Self-supporting luminescent films. 2,588,569, Mar. 11.

Pierce, John B., Foundation, assignee: *See*—
Anderegg, Frederick O.

Pilj, Guy H., Los Angeles, Calif. Rod cleaning apparatus. 2,588,758, Mar. 11.

Pilkinton, Paul G.: *See*—
Gartner, Stanley J., and Pilkinton.

Pinaire, John S., Montrose, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Underwing fueling connection. 2,588,869, Mar. 11.

Pitcairn, Harold F., Bryn Athyn, assignor to Autogiro Company of America, Philadelphia, Pa. Blade construction for aircraft sustaining rotors. 2,588,570, Mar. 11.

Pitney-Bowes, Inc., assignee: *See*—
Burckhardt, Alfred.

Pittman, Kenneth F., North Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Battery hold-down. 2,588,870, Mar. 11.

Pitts, John O., Grand Junction, Colo. Slusher bucket. 2,588,657, Mar. 11.

Platero, Armando B., L. G. Pardo, and J. J. Bonsignore, Montevideo, Uruguay. Reinforced tile arch. 2,589,127, Mar. 11.

Plessey Company Limited, The, assignee: *See*—
Da Costa, Harry.

Plotnik, Louis, Compton, Calif. Metal scribing gauge. 2,588,658, Mar. 11.

Podjaski, Alex A., Milwaukee, Wis. Roofing knife. 2,589,128, Mar. 11.

Pohland, Albert, assignor to Eli Lilly and Company, Indianapolis, Ind. 1-benzylpiperidine compounds. 2,589,205, Mar. 11.

Pond, Wallace A., River Grove, Ill., assignor to Radio Corporation of America. High-voltage supply. 2,588,659, Mar. 11.

Ponder, Speers G., U. S. Army, H. C. Fischer, Baltimore, Md., and L. Edelson, Mamaroneck, N. Y. Chemical bomb. 2,589,129, Mar. 11.

Porter, Sydney, assignor to Elastine Process & Development Ltd., Toronto, Ontario, Canada. Forming hollow articles. 2,588,571, Mar. 11.

Poschadel, Leonard R., Milwaukee, Wis. Gas burner with secondary air supply. 2,588,759, Mar. 11.

Posthumus, Klaas, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. High-frequency furnace. 2,589,027, Mar. 11.

Potash Company of America, assignee: *See*—
Welnig, Arthur J.

Pottelger, Roy V., Rochester, N. Y. Making mechanical negatives for photocopies. 2,588,572, Mar. 11.

Potter, Ralph K., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Permutation code group selector. 2,589,130, Mar. 11.

Potts, John T.: *See*—
Unti, Frank P., Potts, and Ensign.

Potts, Louis M., deceased, Evanston, Ill., by M. W. C. Potts, executrix, Evanston, assignor to Teletype Corporation, Chicago, Ill. Combined telephone and telegraph system. 2,589,131, Mar. 11.

Potts, Martha W. C., executrix: *See*—
Potts, Louis M.

Poupitch, Ougljesa J., assignor to Illinois Tool Works, Chicago, Ill. Quickly operable fastener. 2,589,028, Mar. 11.

Power Jets (Research and Development) Ltd., assignee: *See*—
Hawthorne, William R.
Kestell, Thomas A.

Pratt, Harry G., Syracuse, N. Y., assignor to General Electric Company. Automatic variable coupler. 2,589,029, Mar. 11.

Prentice, G. E., Mfg. Co., The, assignee: *See*—
Legat, Robert C.

Pressed Steel Company Limited, assignee: *See*—
Noicken, Woldemar G.

Price, Douglas F., Crystal Springs, Miss. Ball-dispensing attachment for pool tables. 2,588,871, Mar. 11.

Price, Forrest M., and R. M. Johnston, United States Navy. Electrical conducting means for relatively rotating structures. 2,588,410, Mar. 11.

Price, Raymond M.: *See*—
Roche, Arthur F., and Price.

Price, Walter E., Jr., Clinton, Miss. Disk cultivator. 2,588,872, Mar. 11.

Printing Engineers Incorporated, assignee: *See*—
Hillmer, Herman H., and Orent.

Printy, Helen: *See*—
Julian, Percy L., Meyer, and Printy.

Procter and Gamble Company, The, assignee: *See*—
Lange, Willy, and Folzenlogen.

Prosperity Company, Inc., The, assignee: *See*—
Neuroth, John.

Pryne, Ralph, Pomona, Calif. Recessed lighting fixture. 2,588,760, Mar. 11.

Przysiecki, Theodore I., Park Ridge, assignor to Teletype Corporation, Chicago, Ill. Automatic shift control for printing telegraph apparatus. 2,589,132, Mar. 11.

Pugh, Robert W.: *See*—
Gearhart, William M., and Pugh.

Pure Oil Company, The, assignee: *See*—
Murray, Christopher A.

Purington, Ellison S., assignor to J. H. Hammond, Jr., Gloucester, Mass. Electrical filter. 2,589,133, Mar. 11.

Pusateri, Francesco J., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Transferrer arm for weft replenishing looms. 2,588,873, Mar. 11.

Pye Limited, assignee: *See*—
Lawson, Dennis I., and Lord.

Pyle, Ross S., assignor to Collins Radio Company, Cedar Rapids, Iowa. Variable sealed condenser. 2,589,134, Mar. 11.

Quick, Lloyd, Poughkeepsie, N. Y., assignor to James L. Taylor Manufacturing Company. Glue applying machine for glue presses. 2,588,874, Mar. 11.

Quist, Harold A., Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa. Calibrated liquid level gauge. 2,588,875, Mar. 11.

Quist, Harold A., Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa. Gauging and sampling hatch. 2,588,876, Mar. 11.

Raby, James O., Elizabeth City, N. C. Motor-vehicle oil level indicator. 2,588,761, Mar. 11.

Radiator Specialty Company, assignee: *See*—
Meltsner, Harry F.

Radio Corporation of America, assignee, *See*—
Giacoletto, Lawrence J.
Hansell, Clarence W.
Houghton, William D.
Kihn, Harry.
Kihn, Harry, and Wentworth.
Nelson, Morris D.
Picard, Robert G.
Pond, Wallace A.
Wallmark, John T.

Rafuse, Irad S., Glen Head, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Submarine signaling device. 2,589,135, Mar. 11.

Ralston, Glenn S., assignor to Servisoft, Inc., Rockford, Ill. Apparatus for water treatment. 2,589,136, Mar. 11.

Ramsey Corporation, assignee: *See*—
Marien, Charles A.
Marien, Melvin W.

Ramsey, James C., Lincoln, N. Mex. Arrowhead. 2,589,137, Mar. 11.

Ratcliffe, Temple W.: *See*—
Miller, William A., and Ratcliffe

Rauland Corporation, The, assignee: *See*—
Conway, Philip W., and Hajduk.

Raymond, Arthur G.: *See*—
Worm, Erwin A., Jr., and Raymond.

Read Standard Corporation, assignee: *See*—
Avila, Abelardo G.

Reager, Georgie V., Richland, Wash., and A. Burkett, Ocean Springs, Miss. Sectional folding beauty-health board with rocker means. 2,588,762, Mar. 11.

Redin, Eric: *See*—
Atterling, John W. L., Redin, and Ryde.

Reed, Bert N.: *See*—
Brown, Harvey H., and Reed.

Reed, Claude H., assignee: *See*—
Crane, Samuel G.

Reed, Joseph A., Firebaugh, Calif. Screw actuated piston dispenser. 2,588,877, Mar. 11.

Reemelin, Wallace M., Berkeley, and R. W. Olmsted, assignors to Foster and Kleiser Company, San Francisco, Calif. Screen printing apparatus. 2,588,878, Mar. 11.

Reilly, Hugh L., and K. Seymour, Farnborough, England, assignors, by mesne assignments, to Kelvin & Hughes Limited. Navigation instrument. 2,588,763, Mar. 11.

Reno, Duke W., Monroeville, Ohio. Motorized stripping tool. 2,589,138, Mar. 11.

Research Corporation, assignee: *See*—
Wright, Forrest B.

Rethoret, Paul: *See*—
Toy, John A., and Rethoret.

Reynard, Chauncey G., and C. D. Hoover, assignors to Basic Products Corporation, Fort Wayne, Ind. Timer-switch control mechanism. 2,589,139, Mar. 11.

Reynolds, Donald L., Independence, Mo. Connection for reversible iron cords. 2,588,986, Mar. 11.

Rice, John E.: *See*—
Baker, Stanley W., and Rice.

Richards, George F., Garden City, assignor to Teletronics Laboratory, Inc., Westbury, N. Y. Automatic door control system. 2,588,879, Mar. 11.

Richards, George F., Garden City, assignor to Teletronics Laboratory, Inc., Westbury, N. Y. Door drive system. 2,588,880, Mar. 11.

Richmond, Ralph R., Gun Plains Township, Allegan County, Mich. Vegetable harvester. 2,588,764, Mar. 11.

Rieschick, Richard R., New York, N. Y. Accordion. 2,588,881, Mar. 11.

Ringman, Henry W., Everett, Wash. Poppet valve. 2,588,937, Mar. 11.

Rippere, Robert O.: *See*—
Flint, Erlon W., Hague, Joel, and Rippere.

Risley, Roger E., and G. D. Kish, Bradford, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio. Pipe coupling. 2,588,573, Mar. 11.

Ritepoint Co., assignee: *See*—
Lipic, Sylvester G., Boyle, and Lyon.

Rizzolo, Donato R., Bloomfield, N. J. Chair convertible to a table. 2,588,574, Mar. 11.

Roberts, John A., New York, N. Y. Pipe joint. 2,588,987, Mar. 11.

Robijns, Willem P. M. J., assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Lubricated photographic element containing a mixture of higher fatty alcohols and higher fatty acids. 2,588,765, Mar. 11.

Robins, John W., Westwood, assignor to Mason-Neilan Regulator Company, Boston, Mass. Follow-up type servomotor. 2,588,988, Mar. 11.

Robinson, John: *See*—
Ferner, Warren E., Alexander, Robinson, and Streeter.

Robinson, Kenneth G., Norfolk, Va. Brace for correcting deformities in the feet of children. 2,588,411, Mar. 11.

Rocchini, Albert G., Springdale, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Mineral oil compositions. 2,588,412, Mar. 11.

Roche, Arthur F., Freeland, and R. M. Price, assignors to The Dow Chemical Company, Midland, Mich. Molding compositions. 2,588,660, Mar. 11.

Rodenburg, Gudo H., Helmond, and G. Holst, Aalst near Eindhoven, assignors to N. V. P. F. van Vlissingen & Co.'s Katoenfabrieken, Helmond, Netherlands. Screen printing table. 2,588,989, Mar. 11.

Rogers, Cecil B., Berkeley, Calif. Automobile wheel balancer. 2,588,766, Mar. 11.

Rogers, George V., Colchester, Salem, Conn. Power actuated scroll chuck. 2,588,938, Mar. 11.

Rohm, Frank T., assignee: *See*—
Olson, Andrew.

Rolfson, Francis B., San Pablo, assignor to Shell Development Company, San Francisco, Calif. Temperature compensator for capacitors. 2,588,882, Mar. 11.

Rollins, Brook H., Jr., Baltimore, Md. Fruit halving and pitting device. 2,588,575, Mar. 11.

Ronson Art Metal Works, Inc., assignee: *See*—
Burchett, Ray L., and Nissen.

Roop, Nathan W., and H. R. Babb, Jr., Columbus, Ohio. Necktie-holding attachment. 2,588,576, Mar. 11.

Root, John J., New York, N. Y. Direction selection condenser. 2,588,577, Mar. 11.

Roschke, Erwin M., Broadview, Ill., assignor to Zenith Radio Corporation. Random frequency divider. 2,588,413, Mar. 11.

Roseby, Philip N., assignor to Automatic Telephone & Electric Company Limited, Liverpool, England. Electrical signaling system. 2,588,767, Mar. 11.

Rosenberg, Ralph R., Fergus Falls, Minn. Fish stringer. 2,588,768, Mar. 11.

Rosenberger, George J., Holden, Wash. Pie julee retainer. 2,589,140, Mar. 11.

Rosin, Seymour, New York, N. Y., assignor to Farrand Optical Co., Inc. Aspherical corrector lens for optical systems. 2,588,414, Mar. 11.

Rosser, Eugene P., Ardmore, Okla. Caliper gauge. 2,589,141, Mar. 11.

Rotheroe, James R., Perivale, England. Die. 2,589,142, Mar. 11.

Roulements à Billes Miniatures S. A., assignee: *See*—
Annen, Robert.

Royal, Thomas B., Homestead, Fla. Reversing mechanism. 2,588,883, Mar. 11.

Ruano, William J., assignee: *See*—
Napier, James W.

Ruby, Forest R., Detroit, Mich. Curtain stretcher. 2,588,661, Mar. 11.

Ruegg, Rudolf, Zurich, Switzerland. Instrument for measuring heat quantities. 2,588,769, Mar. 11.

Rus, Albert F., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and appartus for removing heat fusible material from cans. 2,589,143, Mar. 11.

Russell, Francis R., Scotch Plains, and R. H. Mueller, Plainfield, N. J., assignors to Standard Oil Development Company. Pressure release equipment. 2,589,144, Mar. 11.

Russell Manufacturing Company, The, assignee: *See*—
Russell, Robert A.

Russell, Robert A., Alexandria City, Ala., assignor to The Russell Manufacturing Company. Centrifugal dyeing. 2,588,415, Mar. 11.

Ryan, Richard W., Brooklyn, N. Y. Eye exercising device. 2,589,145, Mar. 11.

Ryde, Helge: *See*—
Atterling, John W. L., Redin, and Ryde.

Ryder John D.: *See*—
Boast, Warren B., and Ryder.

Saarni, Walfrid: *See*—
Moore, Robert J., and Saarni.

Saco-Lowell Shops, assignee: *See*—
Shaw, Benjamin C.

Sadler, Luther E., assignor of twenty-five percent to B. R. Bentley, Los Angeles, Calif. Apparatus for stunning or killing animals. 2,588,770, Mar. 11.

Salem Tool Company, The, assignee: *See*—
Weikart, Harry L.

Samuelson, Charles T., Houston, Tex. Submersible deep-water drilling apparatus. 2,589,146, Mar. 11.

Sanchez, Daniel J., Rensselaer, N. Y. Baby plate. 2,588,990, Mar. 11.

Santiago, James J., assignor to Grant Oil Tool Company, Los Angeles, Calif. Vacuum well cleaner. 2,588,578, Mar. 11.

Sargisson, Robert L.: *See*—
Wood, Fredric E., and Sargisson.

Sawyer, Donald W., Rochester, N. Y. Stereoscope attachment for print lifting. 2,588,416, Mar. 11.

Sax, Karl J.: *See*—
Bernstein, Seymour, Sax, and Giancola.

Sayre, Gordon B., assignor to Boonton Molding Company, Boonton, N. J. Automatic control for molding presses. 2,588,662, Mar. 11.

Schaefer, Edward E., Oak Park, assignor to E. E. Schaefer, A. A. Steinert, A. A. Zucker, and G. J. Halper, a co-partnership doing business as Acme Venetian Blind Company, Chicago, Ill. Venetian blind construction. 2,589,147, Mar. 11.

Schaeffer, Raymond P.: *See*—
Sevall, Herbert E., and Schaeffer.

Schafer, Oliver M., Trenton, N. J. Alarm timepiece. 2,588,884, Mar. 11.

Schalier, Carl J., assignor to Armstrong Cork Company, Lancaster, Pa. Expansion of compressed cork particles by steaming. 2,588,418, Mar. 11.

Schane, Edward H., Lakewood, assignor to Fanner Manufacturing Company, Cleveland, Ohio. Forming machine. 2,588,663, Mar. 11.

Schellin, Frank H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Nursing bottle. 2,588,991, Mar. 11.

Schladermundt, Peter, Bronxville, N. Y., and C. L. Metzler, Palisades Park, N. J., assignors to Valley Upholstery Corp., New York, N. Y. Furniture construction featuring leg structures and mounting means therefor. 2,588,417, Mar. 11.

Schlaeger, Julian R., Chicago Heights, Ill. Dentrifice. 2,588,992, Mar. 11.

Schlenker, Ernest, St. Barnabe, Marseille, France. Separating fatty acids. 2,589,148, Mar. 11.

Schlessinger, Ruth L., Waterbury, Conn., assignor to United States Rubber Company, New York, N. Y. Preparation of gas expanded plastic materials. 2,588,885, Mar. 11.

Schlosser, Harry: *See*—
Corson, Robert R., and Schlosser.

Schmidt, Edward G.: *See*—
DeCraene, Edmond P., and Schmidt.

Schneible, Claude B., Detroit, and A. S. Lundy, Huntington Woods, Mich.; said Lundy assignor to said Schneible. Apparatus for treatment of gas. 2,589,149, Mar. 11.

Schneider, Cale J., Toledo, Ohio. Cake breaker and cutter. 2,588,579, Mar. 11.

Schneider, Valerie, Phillips, Tex., assignor to Phillips Petroleum Company. Insecticide. 2,589,150, Mar. 11.

Schreck, Irvin F., Cleveland Heights, Ohio. Drive control for motorized hand lift trucks. 2,588,664, Mar. 11.

Schroeder, Charles H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Semihard rubber composition and platen cover thereof. 2,588,993, Mar. 11.

Schwartz, B. Robert, Union, N. J., assignor to Hart Products Corporation. Making polyoxyalkylene ethers. 2,588,771, Mar. 11.

Schwartz, Leo, assignor to Automatic Sewing Equipment Co., Inc., New York, N. Y. Fabric guide for sewing machines. 2,588,886, Mar. 11.

Scott, Benjamin B., Schenectady, N. Y., assignor to General Electric Company. Precision variable resistor device. 2,588,994, Mar. 11.

Scott & Williams, Incorporated, assignee: *See*—
Belford, Alexander.

Scruggs, Thomas M., Richmond Heights, assignor to Bemis Bro. Bag Company, St. Louis, Mo. Apparatus and method for manufacture of composite web material. 2,588,580, Mar. 11.

Scudder, Stanley L.: *See*—
Fitch, Harold L., and Scudder.

Seamless Rubber Company, The, assignee: *See*—
Gow, Arthur R., and Manville.

Searle, G. D., & Co., assignee: *See*—
Burtner, Robert R., and Arbit.

Sedgwick, Kenneth G.: *See*—
Van Valkenburg, Hermon L., and Sedgwick.

Selander, Edwin P., Perkins, Mich. Safety-locked folding shears. 2,588,939, Mar. 11.

Sell, Richard G.: *See*—
Cubitt, Roger H., and Sell.

Semeyn, Johannes, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Socket for an elongated tubular lamp having spaced contact pins at its ends. 2,588,887, Mar. 11.

Sennet, Morgan B., assignor to De Laval Steam Turbine Company, Trenton, N. J. Pump. 2,588,888, Mar. 11.

Serniuk, George, Roselle, N. J., assignor to Standard Oil Development Company. Thioglycolic acid adducts of rubber-like polymers and preparing same. 2,589,151, Mar. 11.

Servisoft, Inc., assignee: *See*—
Ralston, Glenn S.

Setvate, Bernard G., Milwaukee, Wis. Double shelf bracket. 2,588,995, Mar. 11.

Sevall, Herbert E., and R. P. Schaeffer, Elgin, Ill., assignors to The Borden Company, New York, N. Y. Whipping composition. 2,588,419, Mar. 11.

Seymour, Kenneth: *See*—
Reilly, Hugh L., and Seymour.

Shannon, Warren F., Beaumont, Tex. Closure for collapsible tubes opened by bringing a toothbrush into receiving position. 2,589,152, Mar. 11.

Shaw, Benjamin C., Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass. Textile drafting mechanism. 2,588,420, Mar. 11.

Shell Development Company, assignee: *See*—
Dawson, Reginald D.
Fetterly, Lloyd C.
Moore, Robert J., and Saarni.
Rolfson, Francis B.
Shokal, Edward C., and Devlin.
Voorthuis, Heino T., and van Dijk.
Wiebe, Leonard P.

Shepard, Arthur P., Flushing, assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y. Application of sprayed metal coatings to solid objects. 2,588,421, Mar. 11.

Shepard, Arthur P., Flushing, assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y. Application of spray metal linings for aluminum engine cylinders of or for reciprocating engines. 2,588,422, Mar. 11.

Sherwood, Adrienne M., assignee: *See*—
Sherwood, Henry A.

Sherwood, Henry A., assignor to A. M. Sherwood, Tarrytown, N. Y. Motor wheel and mounting strut. 2,588,889, Mar. 11.

Shokal, Edward C., Oakland, and P. A. Devlin, assignors to Shell Development Company, San Francisco, Calif. Allyl alcohol-styrene copolymers. 2,588,890, Mar. 11.

Shoup, John R.: *See*—
Small, Frederick T., Armstrong, and Shoup.

Sieger, Maurice P., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Method of and apparatus for shearing strip material. 2,588,581, Mar. 11.

Sill, Byron, Galveston, Tex. Combined flashlight and circuit tester. 2,588,772, Mar. 11.

Simmons, Robert E., assignor to Denver Fire Clay Company, Denver, Colo. Oil burner with co-ordinated air and oil valves. 2,588,423, Mar. 11.

Simpson, Morris B.: *See*—
Niles, Joseph A., Simpson, Sturgis, Vincent, and Ziemer.

Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake drum. 2,588,665, Mar. 11.

Sinclair Refining Company, assignee: *See*—
Watkins, Franklin M.

Sivertson, Clifford P., Washington, D. C. Card shuffling and dealing device. 2,588,582, Mar. 11.

Slemmons, Arthur J., assignor to Chrysler Corporation, Highland Park, Mich. Piston assembly. 2,588,666, Mar. 11.

Slosberg, Sam M., and H. Beeten, Allentown, and E. Frank, Bethlehem, Pa. Furniture cover. 2,588,940, Mar. 11.

Small, Frederick T., Cumberland, R. T. Armstrong, Mount Savage, and J. R. Shoup, Cresaptown, Md., assignors to Celanese Corporation of America. Spinning. 2,588,583, Mar. 11.

Small, Frederick T., assignor to Celanese Corporation of America, New York, N. Y. Spinning artificial filamentary materials. 2,588,584, Mar. 11.

Smit, Eltje: *See*—
Van Loon, Christiaan, Smit, and van Alkemade.

Smith, Alonzo L., Houston, Tex. Drilling barge. 2,589,153, Mar. 11.

Smith, Andrew G., Detroit, Mich. Soap holding and lathering sponge. 2,588,773, Mar. 11.

Smith, Dallas M., Kirkwood, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Piston ring. 2,589,154, Mar. 11.

Smith, Kline & French Laboratories, assignee: *See*—
Kerwin, James F., and Ullyot.

Smith, Raymond D., Chappaqua, N. Y. Inflatable head stay. 2,589,155, Mar. 11.

Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Automatic washing machine. 2,588,774, Mar. 11.

Smith, William V.: *See*—
Burrill, Ernest A., and Smith.

Smithson, James V., St. Louis, Mo. Filter paper holder. 2,589,156, Mar. 11.

Smolensky, Michael, Cleveland, Ohio. Pivoted valve apparatus. 2,588,775, Mar. 11.

Snyder, Robert F., East Cleveland, Ohio. Box closure. 2,588,996, Mar. 11.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Backenstо, Elwood B.

Solvay & Cie, assignee: *See*—
Basilewsky, Alexis.

Soundscriber Corporation, The, assignee: *See*—
Almquist, Nils T., and De Napoli.

Speaker, Harry B., Neptune, N. J., assignor to the United States of America as represented by the Secretary of the Army. Electric switch. 2,588,424, Mar. 11.

Speicher, Gerald W., assignee: *See*—
Heavilin, Charles R.

Speicher, Wallace L., assignee: *See*—
Heavilin, Charles R.

Spero, George B.: *See*—
Levin, Robert H., McIntosh, and Spero.

Sperry Corporation, The, assignee: *See*—
Barkalow, Clare E.

Sperti, George, assignor to The Institutum Divi Thomae Foundation, Cincinnati, Ohio. Concentration of orange juice. 2,588,337, Mar. 11.

Spradlin, Sammy J., Ashland, Ky. Model airplane control. 2,588,891, Mar. 11.

Springs Cotton Mills, Inc., The, assignee: *See*—
Still, Conway L.

Square D Company, assignee: *See*—
Van Valkenburg, Hermon L., and Sedgwick.

Stålhane, Bertil, Stockholm, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Voltage-dependent resistance blocks. 2,589,157, Mar. 11.

Stamm, Carl A.: *See*—
Higbie, Alan L., and Stamm.

Standard Oil Company, assignee: *See*—
Adams, Chester E., and Dinerstein.

Standard Oil Development Company, assignee: *See*—
Carlson, Carl S., Merrington, and Biribauer.
Crookston, Robert R.
Fasce, Egi V.
Martin, Homer Z., and Barr.
Moise, James E., Luening, and Daroux.
Morrell, Charles E., Biribauer, and Carlson.
Packie, John W.
Russell, Francis, and Mueller.
Serniuk, George.
Stone, Albert L.
Vanderbilt, Byron M., and Bascom.
Ver Nooy, Burton.
Wilson, Samuel W.

Standard Railway Equipment Manufacturing Company, assignee: *See*—
Nystrom, Karl T., and Thompson.
Zeidler, Kurt E.

Standen, John H.: *See*—
Stewart, William D., and Standen.

Stanin, Theodore E.: *See*—
Dickey, Joseph B., and Stanin.

Stanolind Oil and Gas Company, assignee: *See*—
Goodwin, Lloyd O.
Niles, Joseph A., Simpson, Sturgis, Vincent and Ziemer.

Staples, Elliot M., Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Mobile-radio and wire system. 2,589,158, Mar. 11.

Star Drilling Machine Company, The, assignee: *See*—
George Heinish.

Stark, Edward A., San Francisco, Calif. Model glider. 2,588,941, Mar. 11.

Stehlik, Rudolph F., Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Charge rate calculator for automatic telephony. 2,588,684, Mar. 11.

Stehlik, Rudolph F., Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Register-sender for automatic telephony. 2,588,685, Mar. 11.

Stehlik, Rudolph F., Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Telephone system providing operator service when all trunks are busy. 2,588,686, Mar. 11.

Steinert, Alvin A., assignee: *See*—
Schaefer, Edward E.

Steven, Gary: *See*—
Troy, Walter C., and Steven.

Stevens, Donald R., Wilkinsburg, and R. S. Bowman, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Preparation of tetra-isobutylene. 2,588,425, Mar. 11.

Stevens, Donald R., Wilkinsburg, and R. S. Bowman, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Preparation of tri-isobutylene. 2,588,426, Mar. 11.

Stewart, William D., and J. H. Standen, Yonkers, assignors to The B. F. Goodrich Company, New York, N. Y. Complex amine products with dialkyl zinc dithiocarbamates as pesticides. 2,588,428, Mar. 11.

Still, Conway L., Chester, S. C., assignor to The Springs Cotton Mills, Inc. Conveyer system for handling picker laps. 2,588,942, Mar. 11.

Stockmar, Albert H., Villa Rica, Ga. Frangible frame all-purpose farm implement. 2,588,585, Mar. 11.

Stone, Albert L., Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Hold-down slip assembly. 2,589,159, Mar. 11.

Strating, Jan, Groningen, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. 7-dehydrosterol rhodanide and process. 2,588,892, Mar. 11.

Streeter, Walter E.: *See*—
Ferner, Warren E., Alexander, Robinson, and Streeter.

Stringfield, Theodore W., Portland, Oreg., assignor to the United States of America as represented by the Secretary of the Interior. Condenser charge regulation. 2,588,427, Mar. 11.

Strodtz, Norman H.: *See*—
Bendix, Gordon H., Henry, and Strodtz.

Stromberg-Carlson Company, assignee: *See*—
Erikson, Walter H.

Sturgis, Henry F.: *See*—
Niles, Joseph A., Simpson, Sturgis, Vincent, and Ziemer.

Stutzman, Warren S., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Float operated control. 2,588,667, Mar. 11.

Suggate, Harold G.: *See*—
Kendall, John D., and Suggate.

Summerbell, Edith May, executrix: *See*—
Summerbell, William.

Summerbell, William, deceased, Washington, D. C.; E. M. Summerbell, executrix of said W. Summerbell. Recoil-controlled ammunition feeding means for guns. 2,588,429, Mar. 11.

Sun Oil Company, assignee: *See*—
Barton, Paul D.
Dougherty, Patrick F.
Quist, Harold A.

Sundback, Gideon, assignor to Talon, Inc., Meadville, Pa. Automatic lock slider for slide fasteners. 2,588,893, Mar. 11.

Svenson, Ernest J., Rockford, assignor to Odin Corporation, Chicago, Ill. Rotary blade pump. 2,588,430, Mar. 11.

Svit, narodni podnik, assignee: *See*—
Kadeřávek, Václav.

Swanson, Bror W., Elmwood, assignor, by mesne assignments, to A. F. Kasprow, F. A. Kasprow, J. W. Kasprow, S. G. Kasprow, New Britain, and Meyer E. Bailey, New Haven, Conn. Screw thread comparator. 2,588,431, Mar. 11.

Swanson, Bror W., Elmwood, assignor, by mesne assignments, to A. F., F. A., J. W., and S. G. Kasprow, New Britain and Meyer E. Bailey, New Haven, Conn. Screw thread comparator. 2,588,586, Mar. 11.

Swartz, Edward L., Princeton, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Relay test set. 2,589,160, Mar. 11.

Sweetland, Ernest J., deceased, Piedmont, Calif.; N. Sweetland, E. J. Sweetland, Jr., and American Trust Company, executors of said E. J. Sweetland. Fire extinguisher. 2,588,587, Mar. 11.

Sweetland, Ernest J., Jr., executor: *See*—
Sweetland, Ernest J.

Sweetland, Nellie, executrix: *See*—
Sweetland, Ernest J.

Swenson, William E., St. Paul, and H. A. Halgren, Minneapolis, assignors, by mesne assignments, to Minneapolis-Moline Company, Hopkins, Minn. Pump and motor hydraulic system and control valve therefor. 2,588,588, Mar. 11.

Sylvan, Joseph, Berkley, Mich. Window frame and sash assembly. 2,589,161, Mar. 11.

Sylvania Electric Products, Inc., assignee: *See*—
Gartner, Stanley J., and Pilkinton.

Syrovy, Augustin J., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Fluid coupling mounting. 2,588,668, Mar. 11.

Taccone Pneumatic Foundry Equipment Corporation, assignee: *See*—
Taccone, Russell W.

Taccone, Russell W., assignor to Taccone Pneumatic Foundry Equipment Corporation, North East, Pa. Machine for forming molds. 2,588,669, Mar. 11.

Taff, Clifford B., Greenville, N. C. Insect and rodent exterminator. 2,588,894, Mar. 11.

Talon, Inc., assignee: *See*—
Sundback, Gideon.

Tanner, George S., St. Croix Beach, assignor to Gould-National Batteries, Inc., St. Paul, Minn. Apparatus for testing storage batteries. 2,588,776, Mar. 11.

Tauber, Joseph, Springfield, Mass. Surgeon's prethreaded needle holder. 2,588,589, Mar. 11.

Tavener, Ernest E., assignor to Keith Blackman Limited, London, England. Gas burner with flame retaining ports. 2,588,895, Mar. 11.

Tavernon, Claude, Villefranche-sur-Saone, France. Farm sprayer. 2,588,943, Mar. 11.

Taylor, Jack P., Arlington, assignor to The R. H. Bogle Company, Alexandria, Va. Herbicide. 2,589,162, Mar. 11.

Taylor, James L., Manufacturing Company, assignee: *See*—
Quick, Lloyd.

Tegarty, John B., Buffalo, N. Y., assignor to J. W. Macklin, Cleveland, Ohio, as trustee. Combined closure and dispensing applicator for collapsible tubes. 2,589,206, Mar. 11.

Teledex, Inc., assignee: *See*—
Mayo, Edward L.

Telefonaktiebolaget L M Ericsson, assignee: *See*—
Jörgensen, Anders Ossian.

Teletronics Laboratory, Inc., assignee: *See*—
Richards, George F.

Teletype Corporation, assignee: *See*—
Potts, Louis M.
Przysiecki, Theodore I.

Tennessee Corporation, assignee: *See*—
Winter, Ernest A.

Terhune, Vernon B., assignor to Electric Trolley Pole Company, Atlanta, Ga. Trolley pole. 2,588,590, Mar. 11.

Terry, Sydney L., St. Clair Shores, assignor to Chrysler Corporation, Highland Park, Mich. Differential bearing arrangement. 2,588,670, Mar. 11.

Thielman, Jean W., Pittsburgh, Pa. Adjustable garment. 2,588,453, Mar. 11.

Thomas, George, Hayes, England. Folding push chair. 2,588,896, Mar. 11.

Thompson, Alfred L.: *See*—
Nystrom, Karl T., and Thompson.

Thompson, Donald E., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. High-voltage supply. 2,588,777, Mar. 11.

Thompson, Ernest H., Winnetka, assignor to Automatic Canteen Company of America, Chicago, Ill. Mixing device. 2,588,591, Mar. 11.

Thompson, Joseph A.: *See*—
Hobbs, Howard F., and Thompson.

Thompson, Morris, Eau Claire, Wis. Ironing board attachment. 2,588,897, Mar. 11.

Tibeau, Clement, Assiniboia, Saskatchewan, Canada. Oil tank hopper by-pass control. 2,588,778, Mar. 11.

Tieman, Harvey A., St. Louis, Mo. Arch supporting insole. 2,589,163, Mar. 11.

Timken Roller Bearing Company, The, assignee: *See*—
Laase, Charles A.

Titan Valve and Manufacturing Company, The, assignee: *See*—
Van Denberg, Thomas F., and Bondurant.

Tognola, Tullio, Sidney, assignor to Bendix Aviation Corporation, New York, N. Y. Ignition system. 2,589,164, Mar. 11.

Tomasche, Carl L., Burbank, Calif. Window construction. 2,588,432, Mar. 11.

Towne, Edmund B., and H. M. Hill, assignors to Eastman Kodak Company, Rochester, N. Y. 2,3,4,4,5,5-hexachloro-2-cyclopentenone insecticidal compositions. 2,588,997, Mar. 11.

Toy, John A., and P. Rethoret, Eugene, Oreg. Chain saw grinder 2,589,165, Mar. 11.

Transducer Corporation, assignee: *See*—
Johnson, Ernest W.

Travis, Roy E., Dearborn, Mich. Refrigerator construction. 2,588,944, Mar. 11.

Tregaard, Haakon: *See*—
Erland, Ståle, and Tregaard.

Tringali, Dominick, Brooklyn, N. Y. Holder for radio on vehicle handle bars. 2,588,671, Mar. 11.

Tritt, Eloise B., assignee: *See*—
Moore, Caleb L.

Tritt, Elvin D., assignee: *See*—
Moore, Caleb L.

Trolz, Glynn, assignee: *See*—
Mills, John H.

Trost, Conrad, Moorestown, N. J., assignor to The Micronizer Company, New York, N. Y. Means inhibiting escape of oversize particles from circulatory pulverizing mills. 2,588,945, Mar. 11.

Troy, Walter C., Evergreen Park, and G. Steven, Oak Lawn, Ill. Thermocouple. 2,588,998, Mar. 11.

Trundle, Grant W., Fort Lauderdale, Fla. Rotary hydraulic separator. 2,588,592, Mar. 11.

Tucker, Nathaniel G., Forest Hills, N. Y. Reed hat leather trimming machine. 2,588,999, Mar. 11.

Turvey, William E., Oak Park, assignor to Universal Oil Products Company, Chicago, Ill. Liquid level control. 2,588,672, Mar. 11.

Twamley, Walter J., Vancouver, British Columbia, Canada. Aircraft orientation device. 2,588,433, Mar. 11.

Tyson, Daniel D., Mansfield, Ohio. Alignment clip. 2,588,673, Mar. 11.

Udylite Corporation, The, assignee: *See*—
Davis, John V.

Ullyot, Glenn E.: *See*—
Kerwin, James F., and Ullyot.

Union Carbide and Carbon Corporation, assignee: *See*—
Chitwood, Henry C., Fitzpatrick, Fowler, and Freure.

United Geophysical Company, Inc., assignee: *See*—
McCoy, Marcus A.

United Engineering & Foundry Company, assignee: *See*—
Sieger, Maurice P.

United Shoe Machinery Corporation, assignee: *See*—
Haas, Otto R.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Barnes, Arthur H.
Kolodney, Morris.
Pawlicki, Gerard S.
Zinn, Walter H.

United States Instrument Corporation, assignee: *See*—
Barry, Leon G.

United States Rubber Company, assignee: *See*—
Cooper, Harry E.
Schlessinger, Ruth L.

United States Steel Company, assignee: *See*—
Ward, Alfred H.

Universal Manufacturing Corp., assignee: *See*—
Blackburn, Leroy S.

Universal Oil Products Company, assignee: *See*—
Turvey, William E.

Unti, Frank P., Anaconda, Mont., J. T. Potts, and A. C. Ensign, Salt Lake City, Utah. Impact bar assembly for impeller breakers. 2,588,434, Mar. 11.

Upjohn Company, The, assignee: *See*—
Levin, Robert H., McIntosh, and Spero.

Valley Upholstery Corp., assignee: *See*—
Schladermundt, Peter, and Metzler.

Vanadium-Alloys Steel Company, assignee: *See*—
Gill, James P.

Van Alkemade, Willem V.: *See*—
Van Loon, Christiaan, Smit, and van Alkemade.

Van Denberg, Thomas F., Chagrin Falls, and C. W. Bondurant, Euclid, assignors to The Titan Valve and Manufacturing Company, Cleveland, Ohio. Thermostatic valve mechanism. 2,588,674, Mar. 11.

Vandenheuvel, Frantz A., Halifax, Nova Scotia, assignor to Canadian Patents and Development Limited, Ottawa, Ontario, Canada. Treatment of fish livers. 2,588,338, Mar. 11.

Vanderbilt, Byron M., Westfield, N. J., and F. Bascom, Staten Island, N. Y., assignors to Standard Oil Development Company. Ketone soluble copolymer of methacrylonitrile and a diolefin. 2,589,166, Mar. 11.

Vandergriff, Arvel L., Columbus, Ga., assignor to Lummus Cotton Gin Company. Pneumatic doffing mechanism for cotton gins and the like. 2,588,593, Mar. 11.

Van der Stigchel, Bastiaan J., The Hague, Netherlands. Electric pneumatic driving device for a mechanism having to make a reciprocating movement of limited length at arbitrary moments. 2,588,779, Mar. 11.

Van Dijk, Christiaan P.: *See*—
Voorthuis, Heino T., and van Dijk.

Vani, Eugene J., Benwood, W. Va. Butter spreader. 2,589,000, Mar. 11.

Van Loon, Christiaan, Dubbeldam, E. Smit, Dordrecht, Netherlands, and W. V. van Alkemade, Richmond, England, assignors to Lever Brothers Company, Cambridge, Mass. Treating fatty material. 2,588,435, Mar. 11.

Van Pappelendam, Carl A., Monrovia, Calif. Compass and the like. 2,588,780, Mar. 11.

Van Valkenburg, Hermon L., Wauwatosa, and K. G. Sedgwick, Shorewood, Wis., assignors to Square D Company, Detroit, Mich. Electric switch. 2,589,167, Mar. 11.

Vassar, Thomas E., Clarks Summit, assignor to Eureka Specialty Printing Company, Scranton, Pa. Patch reinforcement. 2,589,168, Mar. 11.

Veale, Charles C., Wheaton, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Insulating conductors. 2,589,169, Mar. 11.

Venner, William M., Ladue, and P. L. Bowser, University City, Mo. Apparatus for molding pistons. 2,588,898, Mar. 11.

Venus, Henry J., Baker, Oreg. Wire transposition repair bracket. 2,588,781, Mar. 11.

Ver Nooy, Burton, Atlanta, Ga., assignor to Standard Oil Development Company. Pipe-line scraper trap assembly. 2,589,170, Mar. 11.

Villano, Joseph, Brooklyn, N. Y. Spring clip device. 2,589,001, Mar. 11.

Vincent, Renic P.: *See*—
Niles, Joseph A., Simpson, Sturgis, Vincent, and Ziemer

Violette, Richard J., Washington, D. C. Liquid coaxial line and rotary joint. 2,588,436, Mar. 11.

Vironda, Italo D., Battle Creek, Mich. Shotgun choke and compensator. 2,589,171, Mar. 11.

Voellmecke, Friedrich K., assignee: *See*—
Welsh, James G., Jr.

Vonada, Clayton W., Woodward, Pa. Animal trap. 2,589,002, Mar. 11.

Von Tungeln, Frank W., U. S. Navy, Philadelphia, Pa. Sediment trap. 2,588,437, Mar. 11.

Voorthuis, Heino T., and C. P. van Dijk, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco Calif. Stabilized compositions containing high molecular weight halogenated materials. 2,588,899, Mar. 11.

Wagner Electric Corporation, assignee: *See*—
Malsbary, James S.

Wagner, George P., Mount Vernon, N. Y. Level luffing crane. 2,589,172, Mar. 11.

Walde, Robert L., Houston, Tex. Cement paint composition. 2,588,438, Mar. 11.

Waite Carpet Company, assignee: *See*—
Waite, Stanley E.

Waite, Stanley E., assignor to Waite Carpet Company, Oshkosh, Wis. Rug. 2,589,003, Mar. 11.

Walden, Lester M., Cranford, N. J., and N. G. Hernblad, Long Island City, N. Y., assignors, by mesne assignments, to F. C. Came, Savannah, Ga. Reciprocatory sheet feed device for collators. 2,588,946, Mar. 11.

Walkup, Lewis E., H. E. Copley, and W. A. Beckdahl, Columbus, Ohio, assignors, by mesne assignments, to The Haloid Company, Rochester, N. Y. Electrocopy apparatus. 2,588,675, Mar. 11.

Wallace, James M., Braddock, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,588,594, Mar. 11.

Wallmark, John T., Princeton, N. J., assignor to Radio Corporation of America. Power supply circuit for multiplier vacuum tubes. 2,589,173, Mar. 11.

Walter, John M., assignor to The G. A. Gray Company, Cincinnati, Ohio. Lubricant pump for machine tools. 2,588,676, Mar. 11.

War, United States of America as represented by the Secretary of, assignee: *See*—
Mark, Jacob G.

Ward, Alfred H., Pittsburgh, Pa., assignor to United States Steel Company. Continuously processing ferrous strip or sheet material. 2,588,439, Mar. 11.

Wargo, John J., Locust Valley, N. Y. Television antenna. 2,589,174, Mar. 11.

Warner, Warren A., assignor to Art-Block Development Co., Los Angeles, Calif. Apparatus for facing building blocks. 2,588,595, Mar. 11.

Warren, Henry E., Lancaster, Pa., and R. G. Warren, Bangor, Maine. Piano tuning pin. 2,588,440, Mar. 11.

Warren, Richard G.: *See*—
Warren, Henry E. and R. G.

Warsmith, Harry R., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Crusher-roll covering element. 2,588,900, Mar. 11.

Waterland, Tilmer M., Britannia Beach, British Columbia, Canada. Detachable drilling bit. 2,588,782, Mar. 11.

Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Prevention of corrosion. 2,588,441, Mar. 11.

Wayne Iron Works, assignee: *See*—
Wetzel, Charles H.

Weatherhead Company, The, assignee: *See*—
Johnson, Andrew G.

Weber, John A., Shawnee, Kans. Flower pot supporting shelf. 2,588,596, Mar. 11.

Webster, Warren, and K. E. Berk, assignors to The Joyce-Cridland Company, Dayton, Ohio. Automatic door controlling mechanism. 2,588,597, Mar. 11.

Weeks, Gilbert E.: *See*—
Frisbie, Stewart E., and Weeks.

Weesner, William E.: *See*—
Gamrath, Harry R., and Weesner.

Wehmer, Frederick J., Birmingham, and J. M. McClellan, Jr., Detroit, Mich., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Organic polysulfide type adhesive. 2,588,442, Mar. 11.

Weikart, Harry L., assignor to The Salem Tool Company, Salem, Ohio. Shank and socket connection for augers. 2,588,901, Mar. 11.

Weinig, Arthur J., Golden, Colo., assignor to Potash Company of America. Froth flotation concentration of sylvite from sylvinite ores. 2,588,443, Mar. 11.

Weinrich, Arthur R., Brackenridge, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Aluminum base alloy for metal evaporation. 2,589,175, Mar. 11.

Weissberger, Arnold, and C. O. Edens, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Producing couplers from bi-functional amines. 2,589,004, Mar. 11.

Welhart, Charles, Alton, Ill., assignor to Owens-Illinois Glass Company. Glass container. 2,589,005, Mar. 11.

Welsh, James G., Jr., Somerville, Mass., assignor of fifteen per cent to A. Angelini, Torrington, Conn., forty-five per cent to F. K. Voellmecke, and twenty per cent to E. J. Doyle, Boston, Mass. Antiskid device. 2,589,207, Mar. 11.

Welsh Manufacturing Company, assignee: *See*—
Lindblom, Frank W.

Welty, Frank and R. D., Youngstown, assignors to Carbonic Dispenser, Inc., Canfield, Ohio. Automatic liquid carbonator. 2,588,677, Mar. 11.

Welty, Raymond D.: *See*—
Welty, Frank and R. D.

Wentworth, Chandler: *See*—
Kihn, Harry, and Wentworth.

Western Electric Company, Incorporated, assignee: *See*—
Beedy, Harold.
Bureau, Arthur A.
Frisbie, Stewart E., and Weeks.
Galasso, Anthony A.
Hertenstein, Edgar W., Jr.
Rus, Albert F.
Veale, Charles C.

Westfahl, Jerome C., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Delayed-action coagulant and coagulating acid-coagulable latex. 2,588,947, Mar. 11.

Westfahl, Jerome C., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Delayed action coagulant and coagulating acid-coagulable latex. 2,588,948, Mar. 11.

Westfahl, Jerome C., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Delayed action coagulant and coagulation. 2,588,949, Mar. 11.

Westinghouse Air Brake Company, assignee: *See*—
Bone, Herbert L., and McGowan.
Cubitt, Roger H., and Sell.
Gilson, Robert M.
Holden, Phillip F.

Westinghouse Electric Corporation, assignee: *See*—
Dorfman, Hiller D., and Patton.
Hartwig, Edward C., and Large.
Morton, Eldred O.
Wallace, James M.

Weston Electrical Instrument Corporation, assignee: *See*—
Lamb, Anthony H.

West Virginia Steel and Manufacturing Company, assignee: *See*—
Haskell, James B.

Wetzel, Charles H., assignor to Wayne Iron Works, Wayne, Pa. Grandstand. 2,588,783, Mar. 11.

Wheatley, Thomas, Houston, Tex. Valve assembly. 2,589,176, Mar. 11.

White, Raymond J., assignor to Motorola, Inc., Chicago, Ill. Vehicular heating apparatus. 2,588,351, Mar. 11.

Whitehead, James R., Millbank, London, and H. Wood, assignors to Ferranti Limited, Hollinwood, Lancashire, England. Wave signal responder system. 2,588,444, Mar. 11.
Whittaker, Donald, and G. G. Allen, Northwich, England, assignors to Imperial Chemical Industries Limited. Anion exchange resins from alkylene polyamine meta phenylene diamine, formaldehyde and acetone. 2,588,784, Mar. 11.
Wiebe, Leonard P., Long Beach, assignor to Shell Development Company, Emeryville, Calif. Peroxide treatment of fatty oils. 2,588,902, Mar. 11.
Wilbespan Research Labs, Inc., assignee: *See*—
Williams, Richard E.
Wilhelm, Cora M., assignee: *See*—
Wilhelm, Warner F. and Warren F.
Wilhelm, Warner F. and Warren F.; said Warren F. Wilhelm assignor to C. M. Wilhelm, Chicago, Ill. Combustible core for forming ducts in concrete structures. 2,589,177, Mar. 11.
Wilhelm, Warren F.: *See*—
Wilhelm, Warner F. and Warren F.
Wilkirson, Jim P., Waco, Tex. Casket placer. 2,588,445, Mar. 11.
Will, Victor R., Sacramento, Calif. Ceiling bed. 2,588,785, Mar. 11.
Williams, Bill M., L. F. Berhenke, and F. L. Beman, assignors to The Dow Chemical Company, Midland, Mich. Purification of gentisic acid. 2,588,679, Mar. 11.
Williams, Leland W.: *See*—
Brown, Harvey H., and Williams.
Williams, Richard E., assignor to Wilbespan Research Labs, Inc., Manchester, N. H. Electronic tone generator. 2,588,680, Mar. 11.
Willis, Harry A., Jr., Loudonville, N. Y. Truck hoist. 2,588,598, Mar. 11.
Wills, Walter P., Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Measuring and controlling apparatus. 2,588,678, Mar. 11.
Wilson, Samuel W., Baton Rouge, La., assignor to Standard Oil Development Company. Purification of isopropanol. 2,588,446, Mar. 11.
Winden, Andrew O., Madelia, Minn. Moisture-absorbing smoking pipe. 2,588,447, Mar. 11.
Winter, Daniel F., Ceylon, Minn. Rotary rake and stubble cleaner. 2,588,599, Mar. 11.
Winter, Ernest A., College Park, Ga., assignor to Tennessee Corporation, New York, N. Y. Producing essentially silicon-free hydrofluoric acid from hydrofluosilicic acid. 2,588,786, Mar. 11.
Wintle, Harry D., Jr., Brooklyn, N. Y. Medicament applicator. 2,589,178, Mar. 11.
Wixson, George, Garden City, Mich. Gravity drive. 2,588,681, Mar. 11.
Wood, Durro E., Jacksonville, Ala. Apparatus for making molds. 2,589,179, Mar. 11.
Wood, Fredric E., McHenry, and R. L. Sargieson, Berwyn, assignors to Automatic Electric Laboratories, Inc., Chicago, Ill. Multiline telephone substation instrument and circuits. 2,589,180, Mar. 11.
Wood, Hubert: *See*—
Whitehead, James R., and Wood.
Wood, W. A., assignee: *See*—
Hughes, Thomas E.
Woodward Governor Company, assignee: *See*—
Erickson, Francis L.
Woolsey, Willard, Chicago, Ill. Return envelope. 2,588,950, Mar. 11.
Worm, Erwin A., Jr., and A. G. Raymond, Macon, Ga., assignors to Armstrong Cork Company, Lancaster, Pa. Feeding device for wood grinders. 2,588,488, Mar. 11.
Wright, Forrest B., Ithaca, assignor, by mesne assignments, to Research Corporation, New York, N. Y. Egg drier. 2,588,787, Mar. 11.
Wyeth, Nathaniel, Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Shock absorber. 2,588,682, Mar. 11.
Yale & Towne Manufacturing Company, The, assignee: *See*—
Kompass, Frank O.
Yerger, Paul A., Bloomsbury, N. J., assignor to Ingersoll-Rand Company, New York, N. Y. Compressor system. 2,589,006, Mar. 11.
Young, Frank E., Berkeley, and F. T. Jones, El Cerrito, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Levulose dihydrate. 2,588,449, Mar. 11.
Young, James H., Mount Lebanon, Pa. Salt shaker with desiccant holder suspended between cap and container. 2,588,600, Mar. 11.
Yount, Nolen A., Refugio, Tex. Pipe laying apparatus. 2,589,181, Mar. 11.
Zadra, John B., Reno, Nev., assignor to the United States of America as represented by the Secretary of the Interior. Regenerating activated carbon loaded with adsorbed gold. 2,588,450, Mar. 11.
Zarat, Joseph S., Fox Lake, Ill. Child's vehicle. 2,589,182, Mar. 11.
Zavagno, Alfred E., San Francisco, Calif. Spring pressed toothbrush. 2,588,601, Mar. 11.
Zeidler, Kurt E., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Car door operating mechanism. 2,588,683, Mar. 11.
Zell, Parker R., Los Angeles, Calif. Automatically actuated fire extinguisher. 2,588,788, Mar. 11.
Zenith Radio Corporation, assignee: *See*—
Roschke, Erwin M.
Zeruneith, Rudolph E., Philadelphia, Pa. Transfer needle for knitting machines. 2,588,451, Mar. 11.
Zielinski, Joseph, Brooklyn, N. Y. High-pressure jet nozzle. 2,589,183, Mar. 11.
Ziemer, Charles W.: *See*—
Niles, Joseph A., Simpson, Sturgis, Vincent, and Ziemer.
Zinn, Manvel K., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic impedance equalizer. 2,589,184, Mar. 11.
Zinn, Walter H., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Neutron detector. 2,588,789, Mar. 11.
Zucker, Arthur A., assignee: *See*—
Schaefer, Edward E.

LIST OF PLANT INVENTIONS

Camellia plant. H. P. Connell. 1,078, Mar. 11.
Euonymus fortunei plant. C. D. Corliss. 1,079, Mar. 11.
Saintpaulia or African violet plant. L. Ghio. 1,077, Mar. 11.

LIST OF DESIGN INVENTIONS

Apron or similar article. D. Forest. 166,150, Mar. 11.
Artificial Christmas tree. L. Stark. 166,135, Mar. 11.
Blouse. J. Orloff. 166,119, Mar. 11.
Board, Game. I. E. Cline. 166,144, Mar. 11.
Box. G. Siegel. 166,132, Mar. 11.
Box, Compartmented. N. R. Dunbar. 166,147, Mar. 11.
Box for a perfume bottle or similar article. J. Saville. 166,130, Mar. 11.
Brush, Fountain. E. C. Rowser and E. M. Apple. 166,128, Mar. 11.
Brush or similar article, Scalp massage. W. W. Pearce. 166,124, Mar. 11.
Building frame member, Precast concrete. D. Rubenstein. 166,129, Mar. 11.
Camera dolly. S. Krilanovich. 166,112, Mar. 11.
Clock, Skillet. R. E. Sievert. 166,133, Mar. 11.
Clothesline peg. G. M. Gibbs. 166,155, Mar. 11.
Clutch pencil or similar article. B. W. Hanle. 166,161, Mar. 11.
Coat, Lady's. D. Bellsey. 166,141, Mar. 11.
Combined framework and protective guard for a packaging machine. K. D. Knapp. 166,166, Mar. 11.
Cradle for wine bottles. E. F. Cook. 166,145, Mar. 11.
Fabric, Chenille textile. L. Silberberg. 166,134, Mar. 11.
Fabric, Textile. B. Leerer. 166,113, Mar. 11.
Fabric, Woven plastic. V. Petracek. 166,125, Mar. 11.
Fertilizer spreader hood. S. D. Ulrich. 166,137, Mar. 11.
Figurine. A. Giovacchimi. 166,156–8, Mar. 11.
Floor covering. P. C. Waite. 166,138, Mar. 11.
Glove. M. Blanc. 166,142, Mar. 11.
Golfer's watch and tee holder unit, Combination. O. Grun. 166,160, Mar. 11.
Jar. S. W. Menefee, Jr. 166,116, Mar. 11.
Lighter, Table. P. Poullot. 166,126, Mar. 11.
Mixer, Kitchen. A. Kost. 166,111, Mar. 11.
Pencil, Ball point. V. H. Lust. 166,114, Mar. 11.
Plate or similar article, Glass. A. J. Dreitzer. 166,146, Mar. 11.
Protractor for axonometric drawing. C. B. O'Connor. 166,118, Mar. 11.
Range. J. A. Nelson, G. W. Kamin, and L. E. Wolske. 166,117, Mar. 11.
Sandal. R. J. Pastine. 166,122–3, Mar. 11.
Sanding machine, Portable power operated. A. N. Emmons and P. Muller-Munk. 166,148, Mar. 11.
Sewing chest. I. Rothstein. 166,127, Mar. 11.
Shoe. S. Troy. 166,136, Mar. 11.
Snowshoe. F. T. Paden. 166,120–1, Mar. 11.
Stacking member or similar article. J. Greben. 166,159, Mar. 11.
Stocking. A. E. Ischinger. 166,162–5, Mar. 11.
Stocking. S. Sell. 166,131, Mar. 11.
Sunglass frame or the like. J. C. Foster. 166,151–3, Mar. 11.
Tie, Bow. J. Melville. 166,115, Mar. 11.
Timetable, Television. W. L. Garrett, Jr. 166,154, Mar. 11.
Toothbrush, toothpaste, and eyeglass pocket bracket. M. A. Block. 166,143, Mar. 11.
Toy crossbow. P. W. White. 166,139, Mar. 11.
Toy vacuum cleaner. A. L. Atkins. 166,140, Mar. 11.
Watch protector. S. Fass. 166,149, Mar. 11.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accordion. R. R. Rieschick. 2,588,881, Mar. 11.
Absorption of ketene. J. E. Moise, W. D. Luening, and W. G. Daroux. 2,589,112, Mar. 11.
Aerial transporter. A. Knox. 2,588,733, Mar. 11.
Air conditioning and/or humidifying apparatus. B. Lipton. 2,588,736, Mar. 11.
Aircraft orientation device. W. J. Twamley. 2,588,433, Mar. 11.
Aircraft propulsion power plant. W. R. Hawthorne. 2,589,078, Mar. 11.
Air distributor. J. L. Fourtier. 2,588,626, Mar. 11.
Airfoil, and particularly helicopter blade. R. Mayne. 2,589,193, Mar. 11.
Airway traffic control system. H. C. Kendall and L. H. Orpin. 2,588,930–1, Mar. 11.
Alignment clip. D. D. Tyson. 2,588,673, Mar. 11.
Alkylation-dealkylation process. B. B. Corson and W. M. Kutz. 2,589,057, Mar. 11.
Alloys, Ferrous. J. P. Gill. 2,588,514, Mar. 11.
Allyl alcohol-styrene copolymers. E. C. Shokal and P. A. Devlin. 2,588,890, Mar. 11.
Alpha-acylamino styrenes. J. B. Dickey and T. E. Stanin. 2,588,968, Mar. 11.
Alternating current rectifier of the dry surface contact type. R. H. Cubitt and R. G. Sell. 2,588,806, Mar. 11.
Aluminum base alloy for metal evaporation. A. R. Weinrich. 2,589,175, Mar. 11.
Anchor for adjacent slabs of concrete pavements. L. G. Blackhall. 2,588,609, Mar. 11.
Anchoring device. W. W. Ferris. 2,588,712, Mar. 11.
Animal trap. C. W. Vonada. 2,589,002, Mar. 11.
Anion exchange resins from alkylene polyamine meta phenylene diamine, formaldehyde and acetone. D. Whittaker and G. G. Allen. 2,588,784, Mar. 11.
Anode shifting device. J. V. Davis. 2,588,910, Mar. 11.
Antenna, Television. J. J. Wargo. 2,589,174, Mar. 11.
Antibacklash coupling. J. S. Malsbary. 2,588,642, Mar. 11.
Antiskid device. J. G. Welsh, Jr. 2,589,207, Mar. 11.
Antisway bar. J. W. Leighton. 2,589,009, Mar. 11.
Apparatus and method for making plastic folding containers. L. R. Page, Jr., and J. P. Croasdale, Jr. 2,589,022, Mar. 11.
Apparatus and method for manufacture of composite web material. T. M. Scruggs. 2,588,580, Mar. 11.
Apparatus for coating strip material. H. L. Davis. 2,588,987, Mar. 11.
Apparatus for electrically treating the soil. F. W. and W. H. Opp. 2,588,561, Mar. 11.
Apparatus for facing building blocks. W. A. Warner. 2,588,595, Mar. 11.
Apparatus for feeding leather to smoothing presses. V. Kadeřávek. 2,588,845, Mar. 11.
Apparatus for forming fibrous mats. G. M. Lannan. 2,589,008, Mar. 11.
Apparatus for handling loads. J. H. Kemp, Jr. 2,588,732, Mar. 11.
Apparatus for internally coating cathode-ray tube envelopes. P. W. Conway and T. J. Hajduk. 2,589,054, May 11.
Apparatus for making belts. C. O. Mitchell. 2,588,647, Mar. 11.
Apparatus for making molds. D. E. Wood. 2,589,179, Mar. 11.
Apparatus for measuring dips of well strata. L. O. Goodwin. 2,588,717, Mar. 11.
Apparatus for measuring well characteristics. J. A. Niles, N. B. Simpson, H. F. Sturgis, R. P. Vincent, and C. W. Ziemer. 2,588,748, Mar. 11.
Apparatus for molding pistons. W. M. Venner and P. L. Bowser. 2,588,898, Mar. 11.
Apparatus for opening compressed packages. J. R. Nordstrom. 2,588,752, Mar. 11.
Apparatus for producing rolls of upholsterer's felt of uniform length and weight. B. I. Hogan. 2,588,725, Mar. 11.
Apparatus for stunning or killing animals. L. E. Sadler. 2,588,770, Mar. 11.
Apparatus for supplying liquid fuel to the combustion chamber of, and controlling the quantity of motive air in hot-air engines. R. J. Ifield. 2,588,530, Mar. 11.
Apparatus for testing storage batteries. G. S. Tanner. 2,588,776, Mar. 11.
Apparatus for the manufacture of glass wool and other filamentous liquefiable solid materials. I. W. Archibald. 2,588,690, Mar. 11.
Apparatus for treatment of gas. C. B. Schneible and A. S. Lundy. 2,589,149, Mar. 11.
Apparatus for use in the treatment of oil, gas, and gas-condensate wells. C. K. Ellerts. 2,588,369, Mar. 11.
Apparatus for water treatment. G. S. Ralston. 2,589,136, Mar. 11.
Application of spray metal linings for aluminum engine cylinders of or for reciprocating engines. A. P. Shepard. 2,588,422, Mar. 11.
Application of sprayed metal coatings to solid objects. A. P. Shepard. 2,588,421, Mar. 11.
Applying a vitreous coating composition to a glass base and article resulting therefrom. R. L. Green. 2,588,920, Mar. 11.
Arbor. A. Buescher. 2,588,354, Mar. 11.
Arrangement for controlling special indications of distant signals. P. F. Holden. 2,588,836, Mar. 11.
Arrowhead. J. C. Ramsey. 2,589,137, Mar. 11.
Artificial bait. C. G. McRoberts. 2,588,400, Mar. 11.
Artificial fish bait with weighted hook member. H. J. Landon. 2,589,007, Mar. 11.
Artillery training device. G. C. A. Alric. 2,588,904, Mar. 11.
Assembling aid for constructing frameworks. C. J. Dietrich. 2,588,810, Mar. 11.
Astronomical teaching and training apparatus. F. R. Beeson. 2,588,472, Mar. 11.
Attitude indicator. P. A. Noxon. 2,588,755, Mar. 11.
Automatic accounting device. E. W. Flint, A. E. Hague, A. E. Joel, Jr., and R. O. Rippere. 2,588,375, Mar. 11.
Automatic clay spreader. W. E. Cope. 2,588,804, Mar. 11.
Automatic control and safety cover for extractors. O. W. Johnson. 2,588,634, Mar. 11.
Automatic control for molding presses. G. B. Sayre. 2,588,662, Mar. 11.
Automatic door control system. G. F. Richards. 2,588,879, Mar. 11.
Automatic door controlling mechanism. W. Webster and K. E. Berk. 2,588,597, Mar. 11.
Automatic drilling machine. C. M. O'Leary. 2,589,121, Mar. 11.
Automatic electric space-discharge material removal method and apparatus. I. C. McKechnie. 2,588,744, Mar. 11.
Automatic erase for magnetic recorders. S. J. Begun and T. F. Deucher. 2,589,035, Mar. 11.
Automatic fishing reel brake. J. A. Holm. 2,588,837, Mar. 11.
Automatic force-balance system. O. C. Brewster. 2,588,800, Mar. 11.
Automatic liquid carbonator. F. and R. D. Welty. 2,588,677, Mar. 11.
Automatic round head screw stick driver. C. W. Michatek. 2,589,016, Mar. 11.
Automatic shift control for printing telegraph apparatus. T. I. Przysiecki. 2,589,132, Mar. 11.
Automatic variable coupler. H. G. Pratt. 2,589,029, Mar. 11.
Automatic well-drilling mechanism. C. M. O'Leary. 2,589,118, Mar. 11.
Automobile air conditioner for drive-in theaters. W. S. Oftebro and W. E. Fleming. 2,588,756, Mar. 11.
Automobile body pront pillar. J. A. Maxwell. 2,588,643, Mar. 11.
Awning structure, Metal. D. A. Elliott. 2,588,708, Mar. 11.
Back and headrest, Combined. L. W. Martin. 2,589,013, Mar. 11.
Bag: *See*—
Labeled open-mesh bag. Sleeping bag.
Bait holder. C. C. Hoage. 2,588,526, Mar. 11.
Ball cleaning and polishing apparatus. L. M. Fleming. 2,588,714, Mar. 11.
Ball-dispensing attachment for pool tables. D. F. Price. 2,588,871, Mar. 11.
Bank, Singing-talking. J. J. Byrne. 2,588,958, Mar. 11.
Bar: *See*—
Antisway bar. Conveyer carrier bar.
Bar accessory having a siphon for dispensing a predetermined quantity of liquid. J. O. Evans, Jr. 2,589,068, Mar. 11.
Basket, Draining. A. and O. Capra. 2,588,614, Mar. 11.
Bathtub seat. W. J. L. Parish. 2,588,562, Mar. 11.
Battery hold-down. K. F. Pittman. 2,588,870, Mar. 11.
Battery holder. A. A. Galasso. 2,589,071, Mar. 11.
Battery terminal connector. A. Olson. 2,589,122, Mar. 11.

Bearing: *See*—
Noiseless self-aligning ball bearing.
Bed, Ceiling. V. R. Will. 2,588,785, Mar. 11.
Bedspring. R. K. Clark. 2,589,053, Mar. 11.
Bedspring support. F. E. Olson. 2,589,123, Mar. 11.
Beehive. M. P. Elliott. 2,588,370, Mar. 11.
Belt-drive log-turning rigger. E. G. Letourneau. 2,588,735, Mar. 11.
Beta-bromo, alpha-chloro, beta-formyl acrylic acid, Preparing. E. Kuh. 2,588,852, Mar. 11.
Biphenyl amine salts of penicillin. A. P. Granatek. 2,588,517, Mar. 11.
Bit: *See*—
Detachable drilling bit.
Blade construction for aircraft sustaining rotors. H. F. Pitcairn. 2,588,570, Mar. 11.
Block: *See*—
Connector block. Terminal block.
Block molding apparatus. R. W. Honnig and L. A. Hawthorne. 2,588,838, Mar. 11.
Blower elevator. C. V. Everett. 2,588,711, Mar. 11.
Boat, Collapsible. R. Jarvi. 2,589,087, Mar. 11.
Bobbin package. J. B. W. Andrew, Jr. 2,588,791, Mar. 11.
Bottle, Nursing. F. H. Schellin. 2,588,991, Mar. 11.
Box: *See*—
Folding box. Thread box.
Pastry box.
Box closure. R. F. Snyder. 2,588,996, Mar. 11.
Box or carton stripper machine. E. L. Hedstrom, M. C. Otto, and C. E. Gooderham. 2,588,384, Mar. 11.
Brace for correcting deformities in the feet of children. K. G. Robinson. 2,588,411, Mar. 11.
Brace support for steering idler arms. J. A. Langer. 2,588,544, Mar. 11.
Bracket: *See*—
Double shelf bracket.
Wire transportation repair bracket.
Brake: *See*—
Automatic fishing reel brake. Heater booster brake.
Brake beam balancing link. A. M. Miers. 2,588,645, Mar. 11.
Brake drum. C. W. Sinclair. 2,588,665, Mar. 11.
Braking device. R. R. Crookston. 2,589,059, Mar. 11.
Brassière, Strapless. M. K. Anderson. 2,588,603, Mar. 11.
Breaking emulsions of the oil-in-water class. L. T. Monson. 2,589,199–201, Mar. 11.
Breaking oil-in-water emulsions. L. T. Monson. 2,589,198, Mar. 11.
Brooding method. J. W. Napier. 2,588,868, Mar. 11.
Bucket, Slusher. J. O. Pitts. 2,588,657, Mar. 11.
Buckle, Expandable and contractible. H. J. O'Neill. 2,588,655, Mar. 11.
Buffer means. H. L. Bone and K. J. J. McGowan. 2,588,798, Mar. 11.
Butter spreader. E. J. Vani. 2,589,000, Mar. 11.
Cake breaker and cutter. C. J. Schneider. 2,588,579, Mar. 11.
Calculator. W. Hatton. 2,588,923, Mar. 11.
Calculator. E. G. Kesling. 2,588,539, Mar. 11.
Calculator for automatic telephony, Charge rate. R. F. Stehlik. 2,588,684, Mar. 11.
Calendar, Perpetual. E. L. Bauer. 2,588,795, Mar. 11.
Calibrated liquid level gauge. H. A. Quist. 2,588,875, Mar. 11.
Caliper gauge. E. P. Rosser. 2,589,141, Mar. 11.
Can cover and perforator with pouring spouts. L. L. Garneau. 2,588,819, Mar. 11.
Can opening and contents dispensing device. H. E. Kuehn. 2,588,541, Mar. 11.
Car: *See*—
Shuttle car.
Car coupler support and positioning device. K. T. Nystrom and A. L. Thompson. 2,588,654, Mar. 11.
Car door operating mechanism. K. E. Zeidler. 2,588,683, Mar. 11.
Card shuffling and dealing device. C. P. Sivertson. 2,588,582, Mar. 11.
Carrier: *See*—
Gun carrier.
Carrier handle for cameras. R. Cuchet. 2,588,705, Mar. 11.
Cart, Collapsible shopping. J. Brodeck. 2,589,044, Mar. 11.
Carton. W. P. Frankenstein. 2,588,377, Mar. 11.
Carton, Egg. J. A. O'Reilly. 2,588,936, Mar. 11.
Case: *See*—
Key case.
Casket placer. J. P. Wilkirson. 2,588,445, Mar. 11.
Catalyst for the synthesis of hydrocarbons by reduction of carbon monoxide with hydrogen and utilizing same. A. H. Friedman and J. N. Moran. 2,588,511, Mar. 11.
Cellulose esters, Production of. J. J. Allen and J. A. Hawkes. 2,588,457, Mar. 11.
Cement paint composition. R. L. Waide. 2,588,438, Mar. 11.
Centrifugal dyeing. R. A. Russell. 2,588,415, Mar. 11.
Centrifugally responsive governor. L. De Marco. 2,588,911, Mar. 11.
Certain acylamino-acrylates and crotonates as insecticides. J. B. Dickey and H. W. Coover, Jr. 2,588,969, Mar. 11.
Chain saw. M. Merz. 2,589,015, Mar. 11.
Chair: *See*—
Folding push chair.
Chair convertible to a table. D. R. Rizzolo. 2,588,574, Mar. 11.
Chalk sharpener, Reciprocating. T. Dubek. 2,588,499, Mar. 11.
Change-speed friction drive for record changers. H. da Costa. 2,588,807, Mar. 11.
Check valve mechanism, Hydraulically operated. H. A. Halgren and V. N. Albertson. 2,588,520, Mar. 11.
Chemical bomb. S. G. Ponder, H. C. Fischer, and L. Edelson. 2,589,129, Mar. 11.
Child's vehicle. J. S. Zarat. 2,589,182, Mar. 11.
Chimney and the like. L. L. Dollinger. 2,588,496, Mar. 11.
Chlorinated lime composition. J. G. Mark. 2,589,108, Mar. 11.
Choke control. H. A. Carlson and D. E. Alford. 2,588,961, Mar. 11.
Circuit: *See*—
Electronic trigger circuit. Temperature responsive
High-frequency energy control circuit.
transfer circuit.
Circuit arrangement for discharge tubes, particularly glow discharge tubes. F. Lehmann. 2,588,858, Mar. 11.
Circuit breaker. H. D. Dorfman and W. D. Patton. 2,588,497, Mar. 11.
Circuit breaker. H. R. Lindbeck. 2,589,010, Mar. 11.
Circuit for multiplier vacuum tubes, Power supply. J. T. Wallmark. 2,589,173, Mar. 11.
Circuit interrupter. J. M. Wallace. 2,588,594, Mar. 11.
Citrus fruit press. J. H. Clark. 2,588,906, Mar. 11.
Clamp: *See*—
Truck carrier clamp.
Claw hammer with extensible fulcrum. H. H. Brown and B. N. Reed. 2,589,046, Mar. 11.
Claw hammer with extensible fulcrum. H. H. Brown and L. W. Williams. 2,589,047, Mar. 11.
Cleaner: *See*—
Vacuum well cleaner.
Clip: *See*—
Alignment clip. Pen clip.
Golf club holding clip. Tenter clip.
Closure and closure operator for pit mounted auto lifts. H. N. Grushon. 2,588,518, Mar. 11.
Closure fastener. C. L. Burgoyne. 2,588,356, Mar. 11.
Closure for collapsible tubes opened by bringing a toothbrush into receiving position. W. F. Shannon. 2,589,152, Mar. 11.
Closure for table cigarette lighters. S. G. Lipic, F. F. Boyle, and L. S. Lyon. 2,589,011, Mar. 11.
Clutch: *See*—
Fan drive clutch.
Reversible roller type clutch.
Clutch with removable lining. A. O. Kutz. 2,588,985, Mar. 11.
Coating compositions containing a drying oil-modified menthane derivative. L. M. Geiger. 2,588,821, Mar. 11.
Coffee dispenser. J. L. Campbell. 2,588,960, Mar. 11.
Coin selector, Multiple. R. M. Foushee and J. Gottfried. 2,588,510, Mar. 11.
Combined closure and dispensing applicator for collapsible tubes. J. B. Tegarty. 2,589,206, Mar. 11.
Combined tucker and orienting mechanism for snap fastener attaching machines. R. R. Clarke. 2,588,486, Mar. 11.
Combustible core for forming ducts in concrete structures. W. F. and W. F. Wilhelm. 2,589,177, Mar. 11.
Combustion chamber with diverse combustion and diluent air paths. R. L. Hundstad. 2,588,728, Mar. 11.
Compass and the like. C. A. van Pappelendam. 2,588,780, Mar. 11.
Complex amine products with dialkyl zinc dithiocarbamates as pesticides. W. D. Stewart and J. H. Standen. 2,588,428, Mar. 11.
Composition for and method of producing coated cement surfaces and the product resulting therefrom. N. S. Greiner. 2,588,828, Mar. 11.
Compositions containing organic polymeric sulfides and metal salts of 8-hydroxy-quinoline and preparing same. P. G. Benignus. 2,588,796, Mar. 11.
Compressor, Electrically operated. J. P. Norton. 2,588,753, Mar. 11.
Compressor system. P. A. Yerger. 2,589,006, Mar. 11.
Concentration of orange juice. G. Sperti. 2,588,337, Mar. 11.
Condenser: *See*—
Direction selection condenser. Variable sealed condenser.
Condenser charge regulation. T. W. Stringfield. 2,588,427, Mar. 11.
Connection for reversible iron cords. D. L. Reynolds. 2,588,986, Mar. 11.
Connector: *See*—
Battery terminal connector.
Connector block. A. T. Mosimann, Jr. 2,588,558, Mar. 11.
Construction hoist, Portable. A. D. and K. A. Aliphin. 2,588,458, Mar. 11.
Container: *See*—
Cosmetic container. Tube type container.
Glass container.

Container safety lock. J. W. Armbruster. 2,588,605, Mar. 11.
Continuous rotary table filter provided with multiple scroll discharger. H. W. Denhard. 2,588,912, Mar. 11.
Continuously processing ferrous strip or sheet material. A. H. Ward. 2,588,439, Mar. 11.
Control apparatus. E. C. Hartwig and W. E. Large. 2,588,523, Mar. 11.
Control apparatus for internal-combustion engines. L. Lee, II. 2,588,546, Mar. 11.
Control for diesel-electric drives. K. Hefel. 2,588,627, Mar. 11.
Control for gas turbine power plants. R. C. Goodwin. 2,589,074, Mar. 11.
Controlling temperature of trailer cargo and the like, Method of and apparatus for. R. F. Allyne. 2,589,031, Mar. 11.
Controlling the thickness and uniformity of a liquid coating on wire, Method tnd apparatus for. H. Beedy. 2,589,034, Mar. 11.
Converting air conditioning systems. H. H. Herman. 2,588,723, Mar. 11.
Conveyer carrier bar. C. S. Kubisiak. 2,588,984, Mar. 11.
Conveyer shaft counterbalancing and indicating apparatus. S. M. Mercier. 2,588,864, Mar. 11.
Conveyer system for handling picker laps. C. L. Still. 2,588,942, Mar. 11.
Cooking device, Combination. J. F. Kane. 2,588,846, Mar. 11.
Cooler: *See*—
Evaporative cooler. Milk can cooler.
Copying machine. F. A. Parsons. 2,589,204, Mar. 11.
Cork packing machine and the like. L. Booth. 2,589,038, Mar. 11.
Cosmetic container. F. M. Breen. 2,588,611, Mar. 11.
Counter bin construction. H. J. Hickey. 2,589,082, Mar. 11.
Couplers from bi-functional amines, Producing. A. Weissberger and C. O. Edens, Jr. 2,589,004, Mar. 11.
Coupling: *See*— Transmission line coupling.
Antibacklash coupling.
Pipe coupling.
Coupling, V. F. Gouch. 2,588,827, Mar. 11.
Cover: *See*—
Furniture cover.
Crane, Level luffing. G. P. Wagner. 2,589,172, Mar. 11.
Crane, Wheeled. R. G. Le Tourneau. 2,589,102, Mar. 11.
Crate, Bottle. H. H. Goldstein. 2,588,824, Mar. 11.
Crate for bottles and like containers. R. J. Cross. 2,588,805, Mar. 11.
Crawl-fins. L. M. De Corlieu. 2,588,363, Mar. 11.
Crossover protection apparatus. R. M. Gilson. 2,588,822, Mar. 11.
Crown cap lifter with reciprocating elements. W. A. Carter. 2,589,051, Mar. 11.
Crusher-roll covering element. H. R. Warsmith. 2,588,900, Mar. 11.
Crystal rectifier. F. H. Brittain and E. G. James. 2,588,956, Mar. 4.
Cultivator, Disk. W. E. Price, Jr. 2,588,872, Mar. 11.
Current transformer short circuiting switch. S. A. Hoffman. 2,589,084, Mar. 11.
Curtain raising and lowering fixture. I. Lundstrom. 2,588,641, Mar. 11.
Cushion, Rubber foam. J. Glassman. 2,588,823, Mar. 11.
Cutterhead for wood-turning lathes. J. Barksdale. 2,588,465, Mar. 11.
Cutting device for severing a portion of tape unwound from a roll. D. J. Jardine. 2,588,729, Mar. 11.
Dehumidifying system. F. O. Anderegg. 2,588,339, Mar. 11.
Delayed-action coagulant and coagulating acid-coagulable latex. J. C. Westfahl. 2,588,947–8, Mar. 11.
Delayed action coagulant and coagulation. J. C. Westfahl. 2,588,949, Mar. 11.
$\Delta^{1,(10)}$-androstendiols and process. S. Bernstein., K. J. Sax and D. Giancola. 2,588,608, Mar. 11.
Dentifrice. J. R. Schlaeger. 2,588,992, Mar. 11.
Desulfurizing agent and its preparation. E. B. Backensto. 2,589,187, Mar. 11.
Detachable drilling bit. T. M. Waterland. 2,588,782, Mar. 11.
Detergent composition. J. E. Hanson. 2,589,190, Mar. 11.
Device for detecting electric potentials. L. A. B. Cabes. 2,588,357, Mar. 11.
Die. J. R. Rotheroe. 2,589,142, Mar. 11.
Differential bearing arrangement. S. L. Terry. 2,588,670, Mar. 11.
Differential flow valve. H. U. Garrett. 2,588,715, Mar. 11.
Direct positive photographs using hydrazine in the emulsion. C. E. Ives. 2,588,982, Mar. 11.
Direction selection condenser. J. J. Root. 2,588,577, Mar. 11.
Directional antenna system. W. P. Boothroyd and H. F. Hartley, Jr. 2,588,610, Mar. 11.
Dish and base therefor, Disposable. K. E. Howard. 2,588,727, Mar. 11.
Disk flexing and installing apparatus. J. P. Lannen. 2,588,395, Mar. 11.
Disk gang adjusting mechanism. E. P. Cook. 2,588,701, Mar. 11.
Disk harrow. H. L. Elliott. 2,588,709, Mar. 11.
Dispenser: *See*—
Coffee dispenser. Screw actuated piston dispenser.
Retractable ribbon dispenser.
Dispenser for lard and similar semisolids. L. N. Duncan. 2,589,066, Mar. 11.
Dispenser having pressure jaws and brush holder, Paste and cream tube. R. R. Corson and H. Schlosser. 2,589,058, Mar. 11.
Display device. N. R. Junkin. 2,588,635, Mar. 11.
Display device for illuminated transparencies. J. Lawrence. 2,588,545, Mar. 11.
Display form for hosiery. W. J. Cox. 2,588,704, Mar. 11.
Distillation of oxo alcohols. C. E. Morrell, F. A. Birlbauer and C. S. Carlson. 2,589,018, Mar. 11.
Door drive system. G. F. Richards. 2,588,880, Mar. 11.
Door seal construction. A. L. Higbie and C. A. Stamm. 2,588,628, Mar. 11.
Double shelf bracket. B. G. Setvate. 2,588,995, Mar. 11.
Draft gear. R. B. Cottrell. 2,588,703, Mar. 11.
Drier: *See*—
Drum-type glossy print Egg drier.
drier.
Drilling barge. A. L. Smith. 2,589,153, Mar. 11.
Drive control for motorized hand lift trucks. I. F. Schreck. 2,588,664, Mar. 11.
Driving mechanism for sound picture systems. A. V. L. C. Debrie. 2,588,490, Mar. 11.
Drum buoy. E. J. Haanstad. 2,588,830, Mar. 11.
Drum-type glossy print drier. P. D. Dale. 2,588,966, Mar. 11.
Drying clayware and other goods. J. A. Johnson. 2,589,088, Mar. 11.
Drying gelatine layers. C. J. Dippel, J. A. Lely and J. A. M. Dikhoff. 2,588,811, Mar. 11.
Drying oils by HF-hydrocarbon processing, Production of. R. J. Lee and P. D. May. 2,588,639, Mar. 11.
Egg drier. F. B. Wright. 2,588,787, Mar. 11.
Egg storage and dispensing device. V. P. Di Renzo. 2,588,618, Mar. 11.
Electric iron. E. Brauner and M. J. Denning. 2,589,040, Mar. 4.
Electronic pneumatic driving device for a mechanism having to make a reciprocating movement of limited length at arbitrary moments. B. J. van der Stigchel. 2,588,779, Mar. 11.
Electric soldering iron. A. L. Johnson. 2,588,531, Mar. 11.
Electric switch. H. B. Speaker. 2,588,424, Mar. 11.
Electric switch. H. L. Van Valkenburg and K. G. Sedgwick. 2,589,167, Mar. 11.
Electric timing device. S. G. Crane. 2,588,908, Mar. 11.
Electrical breakdown testing apparatus. S. E. Frisbie and G. E. Weeks. 2,589,070, Mar. 11.
Electrical conducting means for relatively rotating structures. F. M. Price and R. M. Johnston. 2,588,410, Mar. 11.
Electrical filter. E. S. Purington. 2,589,133, Mar. 11.
Electrical generator. A. H. Barnes. 2,588,466, Mar. 11.
Electrical signaling system. P. N. Roseby. 2,588,767, Mar. 11.
Electrocopy apparatus. L. E. Walkup, H. E. Copley and W. A. Beckdahl. 2,588,675, Mar. 11.
Electrolytic process for stripping copper. R. L. Peaslee. 2,588,566, Mar. 11.
Electromagnetic compass. P. A. Drouin. 2,588,619, Mar. 11.
Electromagnetic relay with adjustable lever-relation. A. O. Jörgensen. 2,588,534, Mar. 11.
Electromechanical change-speed transmission. P. T. Nims and A. Chadkewicz. 2,588,750, Mar. 11.
Electromechanical transmission. G. L. McCain. 2,588,751, Mar. 11.
Electronic impedance equalizer. M. K. Zinn. 2,589,184, Mar. 11.
Electronic tone generator. R. E. Williams. 2,588,680, Mar. 11.
Electronic trigger circuit. M. L. Hecht. 2,588,924–5, Mar. 11.
Electrophotographic apparatus. C. F. Carlson. 2,588,699, Mar. 11.
Electrostatic high-voltage generator. L. J. Giacoletto. 2,588,513, Mar. 11.
Electrostatic precipitator. E. Degiorgi. 2,588,364, Mar. 11.
Enclosure for drinking containers, Protective. H. C. Lanpher. 2,589,098, Mar. 11.
End casting and retrieving reel. E. Herbert. 2,588,524, Mar. 11.
Engine: *See*—
Fluid engine.
Engine. W. L. Brown, 3rd, and W. L. Brown, 4th. 2,588,478, Mar. 11.
Envelope, Return. W. Woolsey. 2,588,950, Mar. 11.
Evaporative cooler. R. N. Brookins. 2,588,612, Mar. 11.
Expansion of compressed cork particles by steaming. C. J. Schaller. 2,588,418, Mar. 11.
Exterminator, Insect and rodent. C. B. Taff. 2,588,894, Mar. 11.

Extractive fractionation process. L. C. Fetterly. 2,588,506, Mar. 11.
Eye exercising device. R. W. Ryan. 2,589,145, Mar .11.
Fabric guide for sewing machines. L. Schwartz. 2,588,886, Mar. 11.
Fan drive clutch. A. Y. Dodge. 2,588,495, Mar. 11.
Fastener: *See*—
Closure fastener. Quickly operable fastener.
License plate fastener. Separable slide fastener.
Fastening device. G. H. Erb. 2,588,372, Mar. 11.
Fastening device and making same. H. G. Muenchinger. 2,588,404, Mar. 11.
Feeder and waterer, Poultry. J. Ludi. 2,588,737, Mar. 11.
Feeding device for wood grinders. E. A. Worm, Jr., and A. G. Raymond. 2,588,448, Mar. 11.
Fiber gasket material, Manufacture of. J. W. Baymiller. 2,588,340, Mar. 11.
Film developing apparatus. A. N. Brown. 2,588,696, Mar. 11.
Film viewer. F. T. Coffey, Sr. 2,588,803, Mar. 11.
Filter: *See*—
Electrical filter. Liquid filter.
Filter. C. Fuhrmeister, Jr. 2,588,976, Mar. 11.
Filter bed. J. F. Bolton. 2,588,475, Mar. 11.
Filter for internal-combustion engines. C. Bellios. 2,588,474, Mar. 11.
Filter paper holder. J. V. Smithson. 2,589,156, Mar. 11.
Finishing knitted fabric. R. Evans, 2nd. 2,588,624, Mar. 11.
Fire alarm system. J. D. Constantino. 2,58,964, Mar. 11.
Fire extinguisher. E. J. Sweetland. 2,588,587, Mar. 11.
Fire extinguisher, Automatically actuated. P. R. Zell. 2,588,788, Mar. 11.
Fish lure. A. L. Oberbeck and D. V. Mason. 2,589,117, Mar. 11.
Fish stringer. R. R. Rosenberg. 2,588,768, Mar. 11.
Fishing spoon. A. H. Helland. 2,588,720, Mar. 11.
Flame retardant polyethylene and lignin containing composition. R. C. Danison. 2,588,362, Mar. 11.
Flap operating means. J. A. Phillips. 2,589,026, Mar. 11.
Flashlight and circuit tester, Combined. B. Sill. 2,588,772, Mar. 11.
Flashlight and continuity fuse tester, Combination. S. P. Needham. 2,588,559, Mar. 11.
Flashlight and hearing aid battery booster. T. Carlson. 2,588,962, Mar. 11.
Float operated control. W. S. Stutzman. 2,588,667, Mar. 11.
Floating drive connection for metering pumps. A. A. Nichols. 2,588,653, Mar. 11.
Floor-laying tool. W. A. Miller. 2,588,401, Mar. 11.
Floor sander. G. F. Dwyer. 2,588,707, Mar. 11.
Fluid coupling mounting. A. J. Syrovy. 2,588,668, Mar. 11.
Fluid engine. E. E. Bidwell. 2,588,342, Mar. 11.
Fluidized distillation of shale. H. Z. Martin and F. T. Barr. 2,589,109, Mar. 11.
Flush tank ball valve. H. F. Meltsner. 2,589,110, Mar. 11.
Foam stabilization. A. Frieden and H. H. Geller. 2,588,378, Mar. 11.
Foam stabilizer and stabilizing foams. A. Frieden and H. H. Geller. 2,588,379, Mar. 11.
Focusing view finder system. J. H. McLeod. 2,589,014, Mar. 11.
Folded delay line. N. W. Hancock and D. O. McCoy. 2,589,076, Mar. 11.
Folding box. W. A. Adams. 2,588,455, Mar. 11.
Folding push chair. G. Thomas. 2,588,896, Mar. 11.
Folding table. N. W. Munger. 2,588,405, Mar. 11.
Footwear. L. M. Brunet. 2,588,801, Mar. 11.
Forging lubricant and using same. W. E. Ferner, G. Alexander, J. Robinson, and W. E. Streeter. 2,588,625, Mar. 11.
Formation tester and pipe perforator. B. R. McKinley. 2,588,746, Mar. 11.
Forming flexible endless tubes. R. C. Bremer. 2,589,041, Mar. 11.
Forming hollow articles. S. Porter. 2,588,571, Mar. 11.
Forming machine. E. H. Schane. 2,588,663, Mar. 11.
Fractionation of organic compounds by adduct formation. C. E. Adams and R. A. Dinerstein. 2,588,602, Mar. 11.
Frame for vehicles. W. M. Brewen. 2,589,048, Mar. 11.
Frequency modulated tone units. I. Molnar. 2,589,113, Mar. 11.
Frequency modulation. M. A. McCoy. 2,588,551, Mar. 11.
Frequency response analysis. B. Fox. 2,588,376, Mar. 11.
Frequency response measurement, Method and apparatus for. W. R. Johnson. 2,588,730, Mar. 11.
Friction clutch and brake. H. F. Hobbs and J. A. Thompson. 2,588,724, Mar. 11.
Friction clutch, brake, and coupling. C. W. Chapman. 2,588,482, Mar. 11.
Friction shock absorber for railway draft riggings. G. E. Dath. 2,588,488, Mar. 11.
Froth flotation concentration of sylvite from sylvinite ores. A. J. Weinig. 2,588,443, Mar. 11.
Fruit halving and pitting device. B. H. Rollins, Jr. 2,588,575, Mar. 11.
Fuel burning means. J. L. Harvey. 2,588,833, Mar. 11.
Fuel control system. L. Lee, II. 2,588,547, Mar. 11.
Fuel feeding system for heaters. S. J. Budlane. 2,588,348, Mar. 11.
Fuel injector pump mechanism. M. E. Chandler. 2,588,481, Mar. 11.
Fuel supply system. J. C. Baisch. 2,588,952, Mar. 11.
Furnace: *See*—
High-frequency furnace.
Furniture construction featuring leg structures and mounting means therefor. P. Schladermundt and C. L. Metzler. 2,588,417, Mar. 11.
Furniture cover. S. M. Slosberg, H. Beeten, and E. Frank. 2,588,940, Mar. 11.
Game, Parlor baseball. R. H. Fish. 2,588,972, Mar. 11.
Garage door hanger. W. A. Caldwell. 2,589,049, Mar. 11.
Garment, Adjustable. J. W. Thielman. 2,588,453, Mar. 11.
Garment, Coverall. A. W. Kunz. 2,588,542, Mar. 11.
Garment hanger. W. P. Crockett, Jr. 2,588,965, Mar. 11.
Gas burner with flame retaining ports. E. E. Tavener. 2,588,895, Mar. 11.
Gas burner with secondary air supply. L. R. Poschadel. 2,588,759, Mar. 11.
Gas expanded plastic materials, Preparation of. R. L. Schlesinger. 2,588,885, Mar. 11.
Gas mask. G. M. Glidden. 2,588,516, Mar. 11.
Gauge: *See*—
Calibrated liquid level gauge. Caliper gauge.
Metal scribing gauge.
Gauge. H. H. Gates and P. A. Grobey. 2,588,820, Mar. 11.
Gauging and sampling hatch. H. A. Quist. 2,588,876, Mar. 11.
Gear: *See*—
Draft gear.
Gear clutch mechanism. R. Lapsley. 2,588,855, Mar. 11.
Gearing. T. A. Kestell. 2,589,090, Mar. 11.
Generator: *See*—
Electrical generator. Thermoelectric generator.
Electronic tone generator.
Electrostatic high-voltage generator.
Generator. W. B. Boast and J. D. Ryder. 2,588,797, Mar. 11.
Glass container. C. Welhart. 2,589,005, Mar. 11.
Glue applying machine for glue presses. L. Quick. 2,588,874, Mar. 11.
Golf club holding clip. C. B. Payne. 2,589,126, Mar. 11.
Grandstand. C. H. Wetzel. 2,588,783, Mar. 11.
Granular polymers, Preparation of. W. C. Mast and C. H. Fisher. 2,588,398, Mar. 11.
Graph tracker and method, Automatic. C. L. Hubbard and A. Capecelatro. 2,588,386, Mar. 11.
Gravity drive. G. Wixson. 2,588,681, Mar. 11.
Grease compositions, Manufacture of. R. J. Moore and W. Saarni. 2,588,556, Mar. 11.
Grinder, Chain saw. J. A. Toy and P. Rethoret. 2,589,165, Mar. 11.
Groove dressing tool. C. A. Laase. 2,589,191, Mar. 11.
Guiding filaments, Method of and apparatus for. E. W. Hertenstein, Jr. 2,588,525, Mar. 11.
Gun carrier. E. L. Barney. 2,588,467, Mar. 11.
Hammer actuating mechanism. A. R. Filippi. 2,588,816, Mar. 11.
Hand loom. J. C. Iwald. 2,588,843, Mar. 11.
Handling fluidized solids, Method and apparatus for. J. W. Packie. 2,589,124, Mar. 11.
Hanger: *See*—
Garage door hanger. Garment hanger.
Harvester, Vegetable. R. R. Richmond. 2,588,764, Mar. 11.
Heat exchangers, Making. H. C. Dugan. 2,588,500, Mar. 11.
Heater: *See*—
Internal-combustion heater.
Heater booster brake. H. J. Findley. 2,588,507, Mar. 11.
Heater control apparatus. S. J. Budlane. 2,588,350, Mar. 11.
Heating apparatus, Internal-combustion. R. Dusek and S. J. Budlane. 2,588,349, Mar. 11.
Heating apparatus, Vehicular. R. J. White. 2,588,351, Mar. 11.
Helicopter rotor system. M. W. Alde. 2,589,030, Mar. 11.
Herbicide. J. P. Taylor. 2,589,162, Mar. 11.
High concentration alkaline lyes, Production of. A. Basilewsky. 2,588,469, Mar. 11.
High-frequency energy transfer circuit. C. W. Hansell. 2,588,831, Mar. 11.
High-frequency furnace. K. Posthumus. 2,589,027, Mar. 11.
High-frequency power measuring device. M. C. Jones. 2,588,390, Mar. 11.
High-speed spindle. R. Annen. 2,588,459, Mar. 11.
High-voltage supply. M. D. Nelson. 2,588,652, Mar. 11.
High-voltage supply. W. A. Pond. 2,588,659, Mar. 11.
High-voltage supply. D. E. Thompson. 2,588,777, Mar. 11.
Hold-down slip assembly. A. L. Stone. 2,589,159, Mar. 11.
Holder: *See*—
Bait holder. Surgeon's prethreaded needle holder.
Battery holder.
Filter paper holder. Tie holder.
Mattress holder.
Holder for radio on vehicle handle bars. D. Tringali. 2,588,671, Mar. 11.

Hood hinge spring remover. W. E. Brenneman. 2,589,042, Mar. 11.
Hose support and feeder, Adjustable. A. R. Hutt. 2,588,842, Mar. 11.
Humidifier. M. Periman. 2,588,567, Mar. 11.
Hydraulic brake adjuster. W. W. Brannen. 2,588,955, Mar. 11.
Hydraulic control system. F. L. Erickson. 2,589,067, Mar. 11.
Hydraulic fluid composition. V. Esposito. 2,588,970, Mar. 11.
Hydraulic power unit. S. B. McLeod. 2,588,644, Mar. 11.
Hydraulic tool supporting structure. J. G. Lindeman. 2,589,104, Mar. 11.
Hydraulic transmission of the swash plate type pump and motor, and control mechanism therefor. S. C. Moon. 2,588,866, Mar. 11.
Hydroaromatic analogues of certain hydrophile hydroxylated synthetic products and making same. M. De Groote and B. Keiser. 2,589,061, Mar. 11.
Hydrocarbon synthesis using a spent ammonia synthesis catalyst. E. T. Layng. 2,588,452, Mar. 11.
Hydrofugation of textile materials. R. L. Lehmann and J. Lintner. 2,588,640, Mar. 11.
Hydroxyethylamino fluorenes. J. F. Kerwin and G. E. Ullyot. 2,588,849, Mar. 11.
Ignition system. T. Tognola. 2,589,164, Mar. 11.
Impact bar assembly for impeller breakers. F. P. Unti, J. T. Potts, and A. C. Ensign. 2,588,434, Mar. 11.
Implement, Frangible frame all-purpose farm. A. H. Stockmar. 2,588,585, Mar. 11.
Implement, Nut-cracking. M. T. Goble. 2,588,979, Mar. 11.
Improving alkali-soluble acid-precipitable vegetable protein. P. L. Julian, S. J. Circle, and R. T. MacDonald. 2,588,392, Mar. 11.
Improving coffee flavor. E. P. Haney. 2,588,922, Mar. 11.
Independent actuator tens-transfer mechanism. C. Herzstark. 2,588,835, Mar. 11.
Indexing and drive mechanism. S. J. Gartner and P. G. Pilkinton. 2,588,977, Mar. 11.
Indicator: *See*—
Attitude indicator.
Motor vehicle oil level indicator.
Indicator for simulated dice games, Electrically operable. M. S. Fortner. 2,588,817, Mar. 11.
Infant's feeding table. S. B. Novi. 2,588,754, Mar. 11.
Inflatable head stay. R. D. Smith. 2,589,155, Mar. 11.
Inhibiting foaming in steam generators. P. G. Bird and A. L. Jacoby. 2,588,343, Mar. 11.
Inhibiting scale deposition. L. T. Monson. 2,589,195, Mar. 11.
Ink applicator for typewriter ribbons. O. W. Markes. 2,588,548, Mar. 11.
Inking mechanism for rotary lithographic presses. E. Bassist. 2,588,470, Mar. 11.
Inlaid ophthalmic mounting method. F. W. Lindblom. 2,589,103, Mar. 11.
Insect repellent. M. S. Newman and B. J. Magerlein. 2,588,407, Mar. 11.
Insecticide. V. Schneider. 2,589,150, Mar. 11.
Insole, Arch supporting. H. A. Tieman. 2,589,163, Mar. 11.
Installing tubular rivets. R. S. Colley. 2,588,907, Mar. 11.
Instrument, Ball point writing. P. C. Hull. 2,588,629, Mar. 11.
Instrument, Compensated convection current responsive. C. C. Minter. 2,588,403, Mar. 11.
Instrument for intradermal injection of fluids, Surgical. F. Eliscu and M. B. Kassel. 2,588,623, Mar. 11.
Instrument for measuring heat quantities. R. Ruegg. 2,588,769, Mar. 11.
Instrument, Navigation. H. L. Reilly and K. Seymour. 2,588,763, Mar. 11.
Instrument, Writing. R. L. Greist. 2,588,829, Mar. 11.
Insulating conductors. C. C. Beale. 2,589,169, Mar. 11.
Insulating fire brick and manufacture. W. A. Miller and T. W. Ratcliffe. 2,588,646, Mar. 11.
Internal-combustion heater. S. J. Budlane. 2,588,352, Mar. 11.
Iron: *See*—
Electric iron. Steam iron.
Electric soldering iron.
Ironing board attachment. M. Thompson. 2,588,897, Mar. 11.
Irradiation of liquids, Process and apparatus for the. R. B. and A. M. Gochenour. 2,588,716, Mar. 11.
Jet propulsion unit. J. A. Johnson. 2,588,532, Mar. 11.
Jib crane. E. G. Humpal and R. O. Balogh. 2,588,928, Mar. 11.
Joint: *See*—
Pipe joint. Welded joint.
Ketoaliphatic acids derived from hydroxy and alkoxy diphenyl alkanes and the production thereof. R. R. Burtner and H. A. Arbit. 2,588,802, Mar. 11.
Ketone soluble copolymer of methacrylonitrile and a diolefin. B. M. Vanderbilt and F. Bascom. 2,589,166, Mar. 11.
Key case. R. C. Legat. 2,588,857, Mar. 11.
Kineto-optical scanning with modulated light beam in television image projection. W. A. R. Malm. 2,588,740, Mar. 11.
Kinoptic device. R. T. Erban. 2,588,373, Mar. 11.
Knife and holder mounting therefor. D. D. Demarest. 2,588,809, Mar. 11.
Knife, Roofing. A. A. Podjaski. 2,589,128, Mar. 11.
Knitting. I. H. C. Green. 2,588,718, Mar. 11.
Knitting machine. A. Belford. 2,588,473, Mar. 11.
Labeled open-mesh bag. C. V. Brady and A. F. Ottinger. 2,588,695, Mar. 11.
Lactic acid, Producing. R. S. Aries and H. C. Needle. 2,588,460, Mar. 11.
Ladder and hoist therefor, Extension. H. L. Campbell. 2,588,959, Mar. 11.
Ladder, Combination. C. R. Healvilin. 2,589,079, Mar. 11.
Ladder, Venetian blind. T. A. Martin and J. L. Hunter. 2,588,550, Mar. 11.
Laminated electrical assembly and making the same. W. Hargreaves. 2,588,719, Mar. 11.
Lamp: *See*—
Leak detecting lamp.
Lamp vaporizer. G. C. Bauer. 2,588,471, Mar. 11.
Lawn mower sharpening machine. F. E. Dennewitz. 2,588,492, Mar. 11.
Leak detecting lamp. W. G. Nolcken. 2,589,116, Mar. 11.
Lens for optical systems, Aspherical corrector. S. Rosin. 2,588,414, Mar. 11.
Levulose dihydrate. F. E. Young and F. T. Jones. 2,588,449, Mar. 11.
License plate fastener. E. P. Anstett. 2,588,951, Mar. 11.
Lift truck fork tube. C. W. Leguillon and E. B. Katsenmeyer. 2,589,101, Mar. 11.
Light integrator. H. E. Edgerton. 2,588,368, Mar. 11.
Lighter locking mechanism. R. L. Burchett and W. I. Nissen. 2,588,479, Mar. 11.
Lighting fixture, Recessed. R. Pryne. 2,588,760, Mar. 11.
Liquid coaxial line and rotary joint. R. J. Violette. 2,588,436, Mar. 11.
Liquid conditioning system. A. G. Avila. 2,589,186, Mar. 11.
Liquid filter. A. Guiot. 2,588,519, Mar. 11.
Liquid fuel burner nozzle. J. S. Clarke and L. J. Goddard. 2,588,485, Mar. 11.
Liquid level control. W. E. Turvey. 2,588,672, Mar. 11.
Lock: *See*—
Container safety lock. Retarded release shock lock.
Movable form lock.
Lock for power-driven tools, Switch. R. B. Pealer. 2,588,563, Mar. 11.
Lock slider for slide fasteners, Automatic. G. Sundback. 2,588,893, Mar. 11.
Locomotive construction. H. T. Corbell. 2,589,056, Mar. 11.
Log peeling and shaping apparatus. J. Akins. 2,588,903, Mar. 11.
Loom: *See*—
Hand loom.
Lubricant pump for machine tools. J. M. Walter. 2,588,676, Mar. 11.
Lubricated photographic element containing a mixture of higher fatty alcohols and higher fatty acids. W. P. M. J. Robijns. 2,588,765, Mar. 11.
Lubricating device. W. A. Herts. 2,589,081, Mar. 11.
Luminescent films, Self-supporting. R. G. Picard. 2,588,369, Mar. 11.
Machine for applying treatment solution over limited areas of motion-picture film. H. L. Fitch and S. L. Scudder. 2,588,973, Mar. 11.
Machine for forming molds. R. W. Taccone. 2,588,669, Mar. 11.
Machine for making concrete blocks. R. B. Nelson, M. Davies, and F. Neth. 2,589,115, Mar. 11.
Machine for making garment hangers. J. V. Boyles. 2,588,476, Mar. 11.
Machine for reprocessing phonograph record disks. N. T. Almquist and A. C. De Napoli, Jr. 2,589,185, Mar. 11.
Machine for rolling tapered disks. E. A. Nelson. 2,588,631, Mar. 11.
Magazine for stapling tools. R. A. Jacobus. 2,588,929, Mar. 11.
Magnetic ore separator. L. Dreyfus. 2,589,065, Mar. 11.
Making pinking shears, Method of and apparatus for. B. G. Carlson and J. Borcz. 2,589,050, Mar. 11.
Making resins from olefin polymers and organic acid anhydride. E. V. Fasce. 2,589,069, Mar. 11.
Manifolding. D. A. Newman. 2,589,202, Mar. 11.
Manual transfer between automatic and manual regulating controllers. J. G. Booth. 2,588,799, Mar. 11.
Manufacture of improved drying oils by the condensation of unsaturated mineral oil polymers with aldehydes. R. C. Goodwin. 2,588,826, Mar. 11.
Marine engine control. J. F. Morse. 2,588,650, Mar. 11.
Marking apparatus. M. A. Erickson. 2,588,374, Mar. 11.
Match package. J. A. Pastula. 2,589,125, Mar. 11.
Material dissolver and distributor. I. E. Aske. 2,588,691, Mar. 11.
Mattress holder. H. E. Lang. 2,588,854, Mar. 11.
Means inhibiting escape of oversize particles from circulatory pulverizing mills. C. Trost. 2,588,945, Mar. 11.
Measuring and controlling apparatus. W. P. Wills. 2,588,678, Mar. 11.

Measuring dew point, Method and apparatus for. H. K. Burr and G. F. Bailey. 2,588,355, Mar. 11.
Measuring instrument responsive to capacity variations. J. R. Cornelius. 2,588,702, Mar. 11.
Mechanical modulator. H. Kihn. 2,589,091, Mar. 11.
Mechanical negatives for photocopies, Making. R. V. Potteiger. 2,588,572, Mar. 11.
Mechanical off-bearing means. G. W. Charters and B. H. Michels. 2,588,484, Mar. 11.
Mechanism for delivering inflammable liquids. A. C. Elliott. 2,588,504, Mar. 11.
Mechanism for raising and lowering plow frames relative to the ground wheels. W. T. Graham. 2,588,918, Mar. 11.
Medicament applicator. H. D. Wintle, Jr. 2,589,178, Mar. 11.
Metal scribing gauge. L. Piotnik. 2,588,658, Mar. 11.
Meter: *See*—
Permanent magnet core meter.
Milk can cooler. H. W. Houseweart. 2,588,927, Mar. 11.
Mineral oil compositions. A. G. Rocchini. 2,588,412, Mar. 11.
Mirror, Nonblurrable rear-vision. A. E. Goodman and L. R. Brown. 2,588,825, Mar. 11.
Mixing device. E. H. Thompson. 2,588,591, Mar. 11.
Mixture of surface-active materials and making same. L. T. Monson. 2,589,196–7, Mar. 11.
Mixtures comprising polyacrylonitrile and polyalkyl e-acylaminoacrylates and articles obtained therefrom. H. W. Coover, Jr., and J. B. Dickey. 2,589,055, Mar. 11.
Mobile, radio and wire system. E. M. Staples. 2,589,158, Mar. 11.
Model airplane control. S. J. Spradlin. 2,588,891, Mar. 11.
Model glider. E. A. Stark. 2,588,941, Mar. 11.
Moisture-absorbing smoking pipe. A. O. Winden. 2,588,447, Mar. 11.
Molding compositions. A. F. Roche and R. M. Price. 2,588,660, Mar. 11.
Monolithic hollow wall. T. M. O'Neal. 2,589,021, Mar. 11.
Mop handle connection. C. Fatland. 2,588,971, Mar. 11.
Motion-picture machine with electrically operated shutter and film operator. J. P. Dube. 2,588,813, Mar. 11.
Motion transmitting arrangement. S. G. G. Landergren. 2,589,096, Mar. 11.
Motor control system and switch. C. R. Peter. 2,589,024, Mar. 11.
Motor control system for fuel pumps. R. W. Johnson. 2,589,089, Mar. 11.
Motor vehicle oil level indicator. J. O. Raby. 2,588,761, Mar. 11.
Motor vehicle safeguard. P. A. Fasolino. 2,588,815, Mar. 11.
Motor wheel and mounting strut. H. A. Sherwood. 2,588,889, Mar. 11.
Motorized stripping tool. D. W. Reno. 2,589,138, Mar. 11.
Mounting: *See*—
Fluid coupling mounting. Ophthalmic lens mounting.
Mounting for automobile rearview mirrors, Adjustable. D. W. Barkley. 2,588,792, Mar. 11.
Mounting frame for use with telephones, Universal. E. L. Mayo. 2,588,862, Mar. 11.
Movable form lock. F. Barney. 2,588,468, Mar. 11.
Multiline telephone substation instrument and circuits. F. E. Wood and R. L. Sargisson. 2,589,180, Mar. 11.
Multiple sheet glazing units. J. L. Drake. 2,589,064, Mar. 11.
Multiple valve body. A. G. Johnson. 2,588,983, Mar. 11.
Multiposition switch. H. S. Phelps, H. C. Curtis, and H. V. Maurer. 2,589,025, Mar. 11.
Multispeed transmission. S. W. Baker and J. E. Rice. 2,588,462, Mar. 11.
Musical instrument apparatus. V. D. Degan. 2,588,617, Mar. 11.
Navigational system for airways traffic control. O. S. Field and J. E. Freehafer. 2,588,916, Mar. 11.
Necktie-holding attachment. N. W. Roop and H. R. Babb, Jr. 2,588,576, Mar. 11.
Needle for knitting machines, Transfer. R. E. Zerunelth. 2,588,451, Mar. 11.
Neutron detector. W. H. Zinn. 2,588,789, Mar. 11.
Nickel-copper-chromia-alkali metal sulfate catalyst and its preparation. H. C. Chitwood, J. T. Fitzpatrick, G. W. Fowler, and B. T. Freure. 2,588,359, Mar. 11.
Noiseless self-aligning ball bearing. T. Y. Korsgren. 2,588,636, Mar. 11.
Normalizing device for gear train shutter retards. H. T. Hodges. 2,588,980, Mar. 11.
Notched plank or log. S. Erland and H. Tregaard. 2,588,814, Mar. 11.
Nozzle, High-pressure jet. J. Zielinski. 2,589,183, Mar. 11.
Obtaining predetermined phase shift characteristics. W. H. Erikson. 2,588,915, Mar. 11.
Oil base fluid for drilling wells. R. D. Dawson. 2,588,808, Mar. 11.
Oil bath air cleaner construction. J. H. Mills. 2,589,111, Mar. 11.
Oil burner with co-ordinated air and oil valves. R. E. Simmons. 2,588,423, Mar. 11.
Oil tank hopper by-pass control. C. Tibeau. 2,588,778, Mar. 11.
Oil well drilling transmission. C. M. O'Leary. 2,588,408, Mar. 11.
1-benzylpiperidine compounds. A. Pohland. 2,589,205, Mar. 11.
Opener, Can. R. A. Bown. 2,588,347, Mar. 11.
Opener for canned liquids. N. J. Kabanuck. 2,588,731, Mar. 11.
Opener with cap receiver, Bottle. D. J. Ajouelo. 2,588,687, Mar. 11.
Ophthalmic lens mounting. C. A. Ellis. 2,588,505, Mar. 11.
Optical aligner. E. A. Fontaine. 2,588,974, Mar. 11.
Organic polysulfide type adhesive. F. J. Webmer and J. M. McClellan, Jr. 2,588,442, Mar. 11.
Organosiloxane coating composition containing methylhydrogensiloxane fluid and dimethylpolysiloxane high polymer. T. A. Kauppi. 2,588,393, Mar. 11.
Oscillator synchronizing system. W. J. Gruen. 2,588,921, Mar. 11.
Overload release mechanism. A. J. McMaster and W. H. Kitto. 2,589,194, Mar. 11.
Oxidation of alkyl-substituted cyclohexanes using aldehyde-activated catalysts. D. C. Hull. 2,588,388, Mar. 11.
Oxyalkylated derivatives of furfural-substituted phenol resins. M. de Groote and B. Keiser. 2,589,062, Mar. 11.
Package and enclosed tray thereof. T. S. Olsen. 2,588,409, Mar. 11.
Package printing device. A. Burckhardt. 2,588,480, Mar. 11.
Paper-cutting apparatus. J. R. Baumgartner. 2,589,033, Mar. 11.
Paper pulp screen plates and support means for the same. V. Johnson. 2,588,533, Mar. 11.
Parachute pack and harness construction. L. L. Irvin. 2,589,086, Mar. 11.
Parking way control system. F. P. Dunn. 2,588,502, Mar. 11.
Pastry box. H. W. Brown. 2,588,957, Mar. 11.
Patch reinforcement. T. E. Vassar. 2,589,168, Mar. 11.
Pattern lathe. C. L. Moore. 2,589,017, Mar. 11.
Pattern machine. D. Maiocchi. 2,589,105, Mar. 11.
Pear coring machine. E. Altman. 2,588,790, Mar. 11.
Pen clip. E. Bartlett. 2,588,692, Mar. 11.
Percussion tool. C. T. Cole. 2,588,360, Mar. 11.
Permanent magnet core meter. A. H. Lamb. 2,588,394, Mar. 11.
Permanent magnet operated valve. E. P. DeCraene and E. G. Schmidt. 2,589,188, Mar. 11.
Permutation code group selector. R. K. Potter. 2,589,130, Mar. 11.
Peroxide treatment of fatty oils. L. P. Wiebe. 2,588,902, Mar. 11.
Phonograph pickup arm, Adjustable. R. C. Carson. 2,588,616, Mar. 11.
Photoelectric fluid inspection and control device. W. L. Hole. 2,588,981, Mar. 11.
Photographic camera, Automatic. W. Bornemann. 2,588,954, Mar. 11.
Photographic enlarging mask. J. A. Konopka. 2,589,094, Mar. 11.
Piano tuning pin. H. E. Warren. 2,588,440, Mar. 11.
Pie juice retainer. G. J. Rosenberger. 2,589,140, Mar. 11.
Pie making machine. J. A. Abel and P. W. Mercer. 2,588,454, Mar. 11.
Pilot valve. R. D. McLeod. 2,588,552, Mar. 11.
Pin: *See*—
Piano tuning pin.
Pipe: *See*—
Moisture-absorbing smoking pipe. Smoking pipe.
Pipe coupling. R. E. Risley and G. D. Kish. 2,588,573, Mar. 11.
Pipe joint. J. A. Roberts. 2,588,987, Mar. 11.
Pipe laying apparatus. N. A. Yount. 2,589,181, Mar. 11.
Pipe-line scraper trap assembly. B. Ver Nooy. 2,589,170, Mar. 11.
Piston assembly. A. J. Siemmons. 2,588,666, Mar. 11.
Piston packing ring. C. A. Marien. 2,589,106, Mar. 11.
Piston packing ring. M. W. Marien. 2,589,107, Mar. 11.
Piston ring. D. M. Smith. 2,589,154, Mar. 11.
Plate, Baby. D. J. Sanchez. 2,588,990, Mar. 11.
Platform for desks, Insertable. J. B. Jones, F. H. Bloomstran, and V. A. Gronberg. 2,588,844, Mar. 11.
Pneumatic control apparatus. D. P. Eckman. 2,588,622, Mar. 11.
Pneumatic control apparatus. J. G. Horn. 2,588,839, Mar. 11.
Pneumatic control system. D. P. Eckman. 2,588,621, Mar. 11.
Pneumatic doffing mechanism for cotton gins and the like. A. L. Vandergriff. 2,588,593, Mar. 11.
Pole vaulting and high jumping pit, Portable and collapsible. R. W. Hendershott. 2,588,722, Mar. 11.
Polymerization of propylene with liquid catalyst complex. C. S. Carlson, R. S. Merrington, and F. A. Biribauer. 2,588,358, Mar. 11.
Polyoxyalkylene ethers, Making. B. R. Schwartz. 2,588,771, Mar. 11.
Polyvinyl acetate emulsion. W. G. Kunze and R. B. Evans. 2,588,543, Mar. 11.

Poppet valve. H. W. Ringman. 2,588,937, Mar. 11.
Positioning mechanism. W. S. Klingenberg. 2,588,932, Mar. 11.
Power actuated scroll chuck. G. V. Rogers. 2,588,938, Mar. 11.
Power-operated telescoping mast and braces. G. Heinish. 2,589,080, Mar. 11.
Power take-off device for wheeled tractors. J. Heller. 2,588,721, Mar. 11.
Power tool. M. L. Briggs. 2,588,477, Mar. 11.
Power transmission mechanism. G. H. Amonsen. 2,589,032, Mar. 11.
Power transmitting apparatus. C. M. O'Leary. 2,589,120, Mar. 11.
Precision variable resistor device. B. B. Scott. 2,588,994, Mar. 11.
Preservation of green color in canned vegetables. G. H. Bendix, R. E. Henry, and N. H. Strodtz. 2,589,037, Mar. 11.
Press: *See*—
Citrus fruit press. Rapidly adjustable press.
Pressure release equipment. F. R. Russell and R. H. Mueller. 2,589,144, Mar. 11.
Pretreatment of beryllium prior to coating. M. Kolodney. 2,588,734, Mar. 11.
Prevention of ammonium sulfide corrosion. C. A. Murray. 2,589,114, Mar. 11.
Prevention of corrosion. F. M. Watkins. 2,588,441, Mar. 11.
Prevention of foaming in steam generation. P. G. Bird and A. L. Jacoby. 2,588,344–5, Mar. 11.
Printing apparatus. H. H. Hillmer and H. P. Orent. 2,588,385, Mar. 11.
Printing onto lenticular film. J. G. Capstaff. 2,588,615, Mar. 11.
Producing essentially silicon-free hydrofluoric acid from hydrofluosilicic acid. E. A. Winter. 2,588,786, Mar. 11.
Producing hydrogel beads, Process and apparatus for. T. H. Milliken, Jr. 2,588,402, Mar. 11.
Propeller pitch and engine speed control device, Combined. J. E. Englesson. 2,588,371, Mar. 11.
Protector: *See*—
Shoe protector.
Pump: *See*—
Rotary blade pump. Variable delivery pump.
Pump. M. B. Sennet. 2,588,888, Mar. 11.
Pump and motor hydraulic system and control valve therefor. W. E. Swenson and H. A. Halgren. 2,588,588, Mar. 11.
Purification of gentisic acid. F. C. Meyer. 2,588,336, Mar. 11.
Purification of gentisic acid. B. M. Williams, L. F. Berhenke, and F. L. Beman. 2,588,679, Mar. 11.
Purification of isopropanol. S. W. Wilson. 2,588,446, Mar. 11.
Pyrolysis of steroid products. R. H. Levin, A. V. McIntosh, Jr., and G. B. Spero. 2,588,396, Mar. 11.
Pyrolytic production of chlorohydrocarbons. E. K. Morris. 2,588,867, Mar. 11.
Quickly operable fastener. O. J. Poupitch. 2,589,028, Mar. 11.
Rack: *See*—
Spool rack.
Rack for holding Venetian blind slats. F. L. Morris and A. W. Peterson. 2,588,557, Mar. 11.
Rafter square. R. Cruickshank. 2,588,909, Mar. 11.
Rake and stubble cleaner, Rotary. D. F. Winter. 2,588,599, Mar. 11.
Random frequency divider. E. M. Roschke. 2,588,413, Mar. 11.
Rapidly adjustable press. C. V. McKenzie. 2,588,745, Mar. 11.
Reaction rate of an emulsion polymerization process. C. F. Fryling and A. E. Follett. 2,588,975, Mar. 11.
Receptacle filler. F. D. Chapman. 2,588,483, Mar. 11.
Reciprocatory sheet feed device for collators. L. M. Walden and N. G. Hernblad. 2,588,946, Mar. 11.
Recoil-controlled ammunition feeding means for guns. W. Summerbell. 2,588,429, Mar. 11.
Reed hat leather trimming machine. N. G. Tucker. 2,588,999, Mar. 11.
Reel: *See*—
End casting and retrieving reel.
Reel. A. A. Bureau. 2,589,048, Mar. 11.
Reel for Steckel mills, Coiling. H. Klouman and C. Nygren. 2,589,093, Mar. 11.
Refining gasoline and petroleum oils with aqueous antimony trichloride. G. R. Bond, Jr. 2,588,346, Mar. 11.
Refrigerator construction. R. E. Travis. 2,588,944, Mar. 11.
Refrigerator, Rotary shelf. R. M. Paul. 2,588,363, Mar. 11.
Regenerating activated carbon loaded with adsorbed gold. J. B. Zadra. 2,588,450, Mar. 11.
Register-sender for automatic telephony. R. F. Stehlik. 2,588,685, Mar. 11.
Regulating means for liquid fuel supply systems of prime movers or other apparatus. T. A. Harris. 2,588,522, Mar. 11.
Reinforced sail. M. L. Nilsen. 2,589,203, Mar. 11.
Reinforced tile arch. A. B. Platero, L. G. Pardo, and J. J. Bonsignore. 2,589,127, Mar. 11.
Relay test set. E. L. Swartz. 2,589,160, Mar. 11.
Relief valve. O. L. Gurretson. 2,589,072, Mar. 11.
Relief valve construction. T. H. Holmes. 2,588,527, Mar. 11.
Removing heat fusible material from cans, Method and apparatus for. A. F. Rus. 2,589,143, Mar. 11.
Removing paraffin from wells. R. E. Meynig. 2,588,554, Mar. 11.
Rendering cellulosic material nonadherent to adhesives. F. L. Dennett. 2,588,367, Mar. 11.
Rendering fabrics water-repellent and composition therefor. F. L. Dennett. 2,588,366, Mar. 11.
Rendering fabrics water-repellent and product resulting therefrom. F. L. Dennett. 2,588,365, Mar. 11.
Resorcinol monobenzoate, Manufacturing. W. M. Gearhart and R. W. Pugh. 2,588,978, Mar. 11.
Retardation of development of reversion flavor in hydrogenated fats and oils. W. Lange and R. G. Folzenlogen. 2,589,097, Mar. 11.
Retarded release shock lock. R. W. Dunham. 2,588,914, Mar. 11.
Retractable ribbon dispenser. J. M. Johnston. 2,589,192, Mar. 11.
Retrieving device. E. Krantz. 2,588,637, Mar. 11.
Reversible roller type clutch. P. C. J. Gilson. 2,588,515, Mar. 11.
Reversing mechanism. T. B. Royal. 2,588,883, Mar. 11.
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Rod cleaning apparatus. G. H. Pilj. 2,588,758, Mar. 11.
Roller jewel setting tool. F. Kobos, Sr. 2,588,850, Mar. 11.
Rotary blade pump. E. J. Svenson. 2,588,430, Mar. 11.
Rotary hydraulic separator. G. W. Trundle. 2,588,592, Mar. 11.
Rotary selector switch. L. G. Barry. 2,588,793, Mar. 11.
Rotor for stone crushing apparatus. L. H. Kessler. 2,588,847, Mar. 11.
Rug. S. E. Waite. 2,589,003, Mar. 11.
Rule, Typist's D. B. and J. W. Driskill. 2,588,498, Mar. 11.
Salt shaker with desiccant holder suspended between cap and container. J. H. Young. 2,588,600, Mar. 11.
Saw attachment for tractors. E. J. Bausch and W. W. Mulanax. 2,588,953, Mar. 11.
Scaffold bracing. L. S. Blackburn. 2,588,905, Mar. 11.
Scaffold support. C. F. McQuin. 2,588,399, Mar. 11.
Scissor type element for removing dents from body and fender panels. F. G. Forster. 2,588,509, Mar. 11.
Screen printing apparatus. W. M. Reemelin and R. W. Olmsted. 2,588,878, Mar. 11.
Screen printing table. G. H. Rodenburg and G. Holst. 2,588,989, Mar. 11.
Screw actuated piston dispenser. J. A. Reed. 2,588,877, Mar. 11.
Screw-hole liner. M. Marks. 2,588,860, Mar. 11.
Screw thread comparator. B. W. Swanson. 2,588,431, Mar. 11.
Screw thread comparator. B. W. Swanson. 2,588,586, Mar. 11.
Sealing hollow bodies, such as bottles and similar containers of plastic material. W. K. Archer. 2,588,604, Mar. 11.
Seat: *See*—
Bathtub seat.
Seat having torsion spring suspension. A. S. Krotz and R. R. Cowden. 2,588,638, Mar. 11.
Sectional folding beauty-health board with rocker means. G. V. Reager. 2,588,762, Mar. 11.
Sediment trap. F. W. Von Tungeln. 2,588,437, Mar. 11.
Semihard rubber composition and platen cover thereof. C. H. Schroeder. 2,588,993, Mar. 11.
Separable slide fastener. O. J. Moehler. 2,588,648, Mar. 11.
Separating fatty acids. E. Schlenker. 2,589,148, Mar. 11.
Separating oil from water. P. D. Barton. 2,588,794, Mar. 11.
Separator: *See*—
Magnetic ore separator. Spherical shell fluid separator.
Rotary hydraulic separator.
Servo control system. D. M. McCallum. 2,588,742–3, Mar. 11.
Servomotor, Follow-up type. J. W. Robins. 2,588,988, Mar. 11.
7-dehydrosterol rhodanide and process. J. Strating. 2,588,892, Mar. 11.
Sewing machine, Shoe. O. R. Haas. 2,588,383, Mar. 11.
Shank and socket connection for augers. H. L. Welkart. 2,588,901, Mar. 11.
Shearing strip material, Method of and apparatus for. M. P. Sieger. 2,588,581, Mar. 11.
Shears, Safety-locked folding. E. P. Selander. 2,588,939, Mar. 11.
Sheet stop device for rotary duplicating machines. A. H. Gelb. 2,588,917, Mar. 11.
Shelf, Flower pot supporting. J. A. Weber. 2,588,596, Mar. 11.
Shield, Welder's eye. A. McWethy. 2,588,553, Mar. 11.
Shirt and making same. W. W. Artzt. 2,588,606, Mar. 11.
Shock absorber. N. Wyeth. 2,588,682, Mar. 11.
Shock absorber for railway car trucks. G. E. Dath. 2,588,487, Mar. 11.

Shoe protector. O. N. Gredell. 2,588,919, Mar. 11.
Shotgun choke and compensator. I. D. Vironda. 2,589,171, Mar. 11.
Shuttle car. W. R. Beck. 2,588,341, Mar. 11.
Sighting-in support for firearms. M. F. Booth. 2,589,039, Mar. 11.
Silica-alumina-group VIII metal catalyst. F. G. Ciapetta and W. H. Buck. 2,589,189, Mar. 11.
Silica powder, Producing. C. A. Kumins and G. R. Greening. 2,588,853, Mar. 11.
Silicic acid sols, Preparing. R. K. Iler. 2,588,389, Mar. 11.
Silk screen printing machine. L. G. Dubuit. 2,588,620, Mar. 11.
Sink construction. T. Bargman. 2,588,464, Mar. 11.
16-alkyl steroids and preparing. P. L. Julian, E. W. Meyer, and H. Printy. 2,588,391, Mar. 11.
Slack puller for bale tiers. G. B. Hill. 2,589,083, Mar. 11.
Sleeping bag. J. Kaplan. 2,588,536, Mar. 11.
Slitting and stretching insole material, Process of and apparatus for. H. G. Lumbard. 2,588,859, Mar. 11.
Smoker's appliance. H. T. Kelly. 2,588,537, Mar. 11.
Smoking pipe. S. F. Bowles. 2,588,693, Mar. 11.
Smoking pipe. A. A. Fischbach. 2,588,713, Mar. 11.
Socket for an elongated tubular lamp having spaced contact pins at its ends. J. Semeyn. 2,588,887, Mar. 11.
Solutions of acrylonitrile polymers. M. R. Dalton. 2,588,335, Mar. 11.
Solutions of acrylonitrile polymers in nitromethane and alpha-hydroxy-beta-trichloropropionitrile. M. R. Dalton. 2,588,334, Mar. 11.
Spaced-pulse impulse sender. C. A. Lovell and D. B. Parkinson. 2,588,397, Mar. 11.
Spherical shell fluid separator. H. McCurdy. 2,588,863, Mar. 11.
Spinning. F. T. Small, R. T. Armstrong, and J. R. Shoup. 2,588,583, Mar. 11.
Spinning artificial filamentary materials. F. T. Small. 2,588,584, Mar. 11.
Sponge, Soap holding and lathering. A. G. Smith. 2,588,773, Mar. 11.
Spool rack. G. B. Hume. 2,588,529, Mar. 11.
Spray arm for washing machines, Rotary. J. LaRaus. 2,588,856, Mar. 11.
Sprayer, Farm. C. Tavernon. 2,588,943, Mar. 11.
Spraying device. H. D. North, Jr. 2,589,020, Mar. 11.
Spring bumper and draft gear. R. C. Kepner. 2,588,848, Mar. 11.
Spring clip device. J. Villano. 2,589,001, Mar. 11.
Spring suspension of perambulators and the like. J. G. Allen. 2,588,456, Mar. 11.
Stabilized compositions containing high molecular weight halogenated materials. H. T. Voorthuis and P. van Dijk. 2,588,899, Mar. 11.
Stabilizers in photographic emulsions and developers. J. D. Kendall and H. G. Suggate. 2,588,538, Mar. 11.
Starch ethers, Preparation of. L. Balassa. 2,588,463, Mar. 11.
Starting arrangement for gyroscopic instruments. C. E. Barkalow. 2,588,607, Mar. 11.
Steam iron. L. N. Butcher. 2,588,698, Mar. 11.
Steam iron vaporizing chamber. E. O. Morton. 2,588,747, Mar. 11.
Steam locomotive admission and exhaust piston valve. T. J. Hoy. 2,588,841, Mar. 11.
Stereoscope attachment for print lifting. D. W. Sawyer. 2,588,416, Mar. 11.
Stop. W. E. W. Nicolls. 2,588,560, Mar. 11.
Stop motion. M. Antonevich. 2,588,689, Mar. 11.
Stove, Cooking. M. E. Gilbert. 2,589,073, Mar. 11.
Stretcher, Curtain. F. R. Ruby. 2,588,661, Mar. 11.
Stretching tool. S. R. Dummer. 2,588,501, Mar. 11.
Submarine signaling device. I. S. Rafuse. 2,589,135, Mar. 11.
Submersible deepwater drilling apparatus. C. T. Samuelson. 2,589,146, Mar. 11.
Sun visor for automobiles. W. A. Bracken. 2,588,694, Mar. 11.
Support: *See*—
Bedspring support. Scaffold support.
Surgeon's prethreaded needle holder. J. Tauber. 2,588,589, Mar. 11.
Switch: *See*—
Current transformer short circuiting switch. Thermostatic switch.
Electric switch. Thermostatically actuated switch.
Multiposition switch. Wave guide switch.
Rotary selector switch.
Switch. M. L. Jeffrey. 2,588,632, Mar. 11.
Switch with pressure fluid arc extinguishing. A. Latour. 2,588,933, Mar. 11.
Syringe. A. R. Gow and C. T. Manville. 2,588,381, Mar. 11.
System or apparatus for stabilizing the voltage of electrostatic generators. E. A. Burrill and W. V. Smith. 2,588,613, Mar. 11.
Systems and apparatus for controlling the supply of power to electric motors. E. W. Johnson. 2,588,633, Mar. 11.
Table: *See*—
Folding table. Screen printing table.
Infant's feeding table.
Table for automobile instrument panels, Disappearing. N. T. Davis. 2,588,706, Mar. 11.
Telephone and telegraph systems, Combined. L. M. Potts. 2,589,131, Mar. 11.
Telephone call counting device. E. Oran. 2,588,935, Mar. 11.
Telephone system providing operator service when all trunks are busy. R. F. Stehlik. 2,588,686, Mar. 11.
Television receiver with sound recurring as pulses during blanking periods. D. I. Lawson and A. V. Lord. 2,589,100, Mar. 11.
Temperature compensator for capacitors. F. B. Rolfson. 2,588,882, Mar. 11.
Temperature probe. W. L. Howland. 2,588,840, Mar. 11.
Temperature responsive control circuit. R. G. Holmes. 2,588,926, Mar. 11.
Tension bolted frame construction. N. H. Franks. 2,588,818, Mar. 11.
Tenter clip. P. Deck. 2,589,060, Mar. 11.
Terminal block. J. K. Hoover. 2,588,726, Mar. 11.
Test milking apparatus. J. W. L. Atterling, E. Redin, and H. Ryde. 2,588,461, Mar. 11.
Tester for airplane fabrics, Puncture-type. T. E. Hughes. 2,588,387, Mar. 11.
Testing apparatus. R. L. Jackman. 2,588,630, Mar. 11.
Tetra-isobutylene, Preparation of. D. R. Stevens and R. S. Bowman. 2,588,425, Mar. 11.
Textile drafting mechanism. B. C. Shaw. 2,588,420, Mar. 11.
Thermocouple. W. C. Troy and G. Steven. 2,588,998, Mar. 11.
Thermoelectric generator. H. J. Findley. 2,588,508, Mar. 11.
Thermoelectrically balanced meter network. G. S. Pawlicki. 2,588,564, Mar. 11.
Thermostatic switch. E. J. Dillman. 2,589,063, Mar. 11.
Thermostatically actuated switch. W. J. Allan. 2,588,688, Mar. 11.
Thimble, Finger shaped. C. M. Howser. 2,588,528, Mar. 11.
Thioglycolic acid adducts of rubber-like polymers and preparing same. G. Serniuk. 2,589,151, Mar. 11.
Thread box. A. A. Koistinen. 2,588,540, Mar. 11.
Throttle and clutch control for marine engines, Combined. J. F. Morse. 2,588,649, Mar. 11.
Throttle valve application. J. W. Marsh. 2,588,549, Mar. 11.
Tie holder. F. M. Bender. 2,589,036, Mar. 11.
Tile marker. E. E. Peeples, Jr. 2,588,757, Mar. 11.
Tilting apparatus. R. F. Day. 2,588,489, Mar. 11.
Timepiece, Alarm. O. M. Schafer. 2,588,884, Mar. 11.
Timer-switch control mechanism. C. G. Reynard and C. D. Hoover. 2,589,139, Mar. 11.
Timing device, Electronic. W. D. Houghton. 2,589,085, Mar. 11.
Tire chain mounting tool. M. S. Peterson. 2,588,568, Mar. 11.
Toaster. F. O. Kompass. 2,588,851, Mar. 11.
Tool: *See*—
Floor-laying tool. Roller jewel setting tool.
Groove dressing tool. Stretching tool.
Motorized stripping tool. Tire chain mounting tool.
Percussion tool. Valve refinishing tool.
Power tool.
Tool for securing cable clamps. A. G. Lundgren. 2,588,738, Mar. 11.
Toolholder for impact tools. R. C. Gravis. 2,589,075, Mar. 11.
Toothbrush, Spring pressed. A. E. Zavagno. 2,588,601, Mar. 11.
Toothed ice-crusher drum. B. A. Matthiesen. 2,588,741, Mar. 11.
Toy or model railroad, Electrically operated. E. Engelhardt. 2,588,710, Mar. 11.
Traffic light accessory. E. G. Main. 2,588,739, Mar. 11.
Transferrer arm for weft replenishing looms. F. J. Pusateri. 2,588,873, Mar. 11.
Transmission for well-drilling machinery. C. M. O'Leary. 2,589,119, Mar. 11.
Transmission line coupling. C. W. Hansell. 2,588,832, Mar. 11.
Transmitting intelligence by radio waves, Method and apparatus for. W. W. Cargill, Jr. 2,588,380, Mar. 11.
Transportable lifting device. N. E. Nilsson. 2,588,749, Mar. 11.
Trap: *See*—
Animal trap. Sediment trap.
Treating fatty material. C. van Loon, E. Smit and W. V. R. van Aikemade. 2,588,435, Mar. 11.
Treating gases, Method of and apparatus for. W. W. Paget. 2,588,656, Mar. 11.
Treating legumes. A. J. Moldenhauer. 2,588,865, Mar. 11.
Treatment of fish livers. F. A. Vandenheuvel. 2,588,338, Mar. 11.
Tri-isobutylene, Preparation of. D. R. Stevens and R. S. Bowman. 2,588,426, Mar. 11.
Trolley pole. V. B. Terhune. 2,588,590, Mar. 11.
Truck carrier clamp. G. Demos. 2,588,491, Mar. 11.
Truck hoist. H. A. Willis, Jr. 2,588,598, Mar. 11.
Tube: *See*—
Lift truck fork tube.
Tube type container. L. C. Brooks. 2,589,045, Mar. 11.

Tubular metallic bait. C. L. Dewey. 2,588,913, Mar. 11.
2,3,4,4,5,5 - hexachlor-2-cyclopentenone insecticidal compositions. E. B. Towne and H. M. Hill. 2,588,997, Mar. 11.
Underwing fueling connection. J. S. Pinarie. 2,588,869, Mar. 11.
Utensil, Cooking. J. N. Deuel. 2,588,494, Mar. 11.
Vacuum well cleaner. J. J. Santiago. 2,588,578, Mar. 11.
Valve: *See*—
Differential flow valve.
Flush tank ball valve.
Permanent magnet operated valve.
Pilot valve.
Poppet valve.
Relief valve.
Steam locomotive admission and exhaust piston valve.
Valve and water silencer, Combined. J. F. Molloy. 2,588,555, Mar. 11.
Valve apparatus, Pivoted. M. Smolensky. 2,588,775, Mar. 11.
Valve assembly. T. Wheatley. 2,589,176, Mar. 11.
Valve for plastic concrete pressure pumps. C. I. Longenecker. 2,589,012, Mar. 11.
Valve for pressure boilers, Control. W. R. Hanline and J. W. E. Hanes. 2,588,521, Mar. 11.
Valve for stems of pneumatic tires. J. De Stefano. 2,588,493, Mar. 11.
Valve mechanism, Thermostatic. T. F. Van Denberg and C. W. Bondurant. 2,588,674, Mar. 11.
Valve operating means. J. Neuroth. 2,589,019, Mar. 11.
Valve refinishing tool. J. V. Bueckermann. 2,588,353, Mar. 11.
Vapor control system for storage tanks. C. D. Laidley. 2,589,095, Mar. 11.
Variable capacitor. H. Kihn and C. Wentworth. 2,589,092, Mar. 11.
Variable delivery pump. M. A. Mathys. 2,588,861, Mar. 11.
Variable inductive coupler. I. K. Munson. 2,588,406, Mar. 11.
Variable sealed condenser. R. S. Pyle. 2,589,134, Mar. 11.
Vehicle: *See*—
Child's vehicle.
Vehicle steering control apparatus. L. Hammond. 2,588,382, Mar. 11.
Vending machine. L. M. Larkin. 2,589,099, Mar. 11.
Venetian blind construction. E. E. Schaefer. 2,589,147, Mar. 11.
Vinyl chloride polymers plasticized with alkyl benzyl tetrachlorophthalates. H. R. Gamrath and W. E. Weesner. 2,588,512, Mar. 11.
Voltage-dependent resistance blocks. B. Stålhane. 2,589,157, Mar. 11.
Wall anchoring device. R. M. James. 2,588,631, Mar. 11.
Washing and the extraction of wash water. L. M. Kahn. 2,588,535, Mar. 11.
Washing machine and drive therefor. B. W. Chapin. 2,588,963, Mar. 11.
Washing machine, Automatic. T. R. Smith. 2,588,774, Mar. 11.
Watch winding and setting mechanism. E. A. Chiffelle, 2,589,052, Mar. 11.
Wave guide switch. C. W. Miller. 2,588,934, Mar. 11.
Wave signal responder system. J. R. Whitehead and H. Wood. 2,588,444, Mar. 11.
Wax cake. P. F. Dougherty. 2,588,812, Mar. 11.
Weatherstrip for metal casement windows. D. J. Burch. 2,588,697, Mar. 11.
Welded joint. O. R. Carpenter. 2,588,700, Mar. 11.
Wheel balancer, Automobile. C. B. Rogers. 2,588,766, Mar. 11.
Wheelbarrow, Balanced load. J. Dwyer. 2,588,503, Mar. 11.
Wheel reraller. J. B. Haskell. 2,589,077, Mar. 11.
Wheels for motorcycles, Governor operated steadying. J. Pattner. 2,589,023, Mar. 11.
Whipping composition. H. E. Sevall and R. P. Schaeffer. 2,588,419, Mar. 11.
Window construction. C. L. Tomsche. 2,588,432, Mar. 11.
Window frame and sash assembly. J. Sylvan. 2,589,161, Mar. 11.
Wire-drawing tension device. W. S. Henderson. 2,588,834, Mar. 11.
Wire transposition repair bracket. H. J. Venus. 2,588,781, Mar. 11.
Yarn, Single cover elastic. H. E. Cooper. 2,588,361, Mar. 11.

CLASSIFICATION OF PATENTS

ISSUED MARCH 11, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number.

1— 47: 2,588,738
2,588,816
49: 2,588,929
2— 8: 2,588,553
42: 2,588,603
75: 2,588,453
80: 2,588,542
113: 2,588,606
145: 2,588,576
4— 56: 2,589,110
185: 2,588,562
187: 2,588,464
5— 10: 2,588,785
66: 2,588,854
238: 2,589,123
262: 2,589,053
344: 2,588,536
361: 2,588,823
6— 1: 2,588,370
8—116.3: 2,588,640
147: 2,588,535
9— 2: 2,589,087
9: 2,588,637
21: 2,588,363
15— 88: 2,588,758
104.06: 2,589,170
122: 2,588,773
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18— 2.5: 2,588,690
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188— 151: 2,589,089
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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Condition of Applications Under Examination at Close of Business February 21, 1952

Total number of patent applications awaiting action, 103,096. Date of oldest new application, April 23, 1951; date of oldest amended application, April 23, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application awaiting Office action	Oldest amended application awaiting Office action	Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	4-23-51	4-23-51	2151
2. HERRMANN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	7-30-51	7-30-51	1156
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part)	7-16-51	7-17-51	1598
4. FALLER, E. A., (Acting Chief), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	5-2-51	5-2-51	1932
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	7-9-51	7-9-51	1257
6. SURLE, H., Carbon Chemistry (part)	6-19-51	6-11-51	1869
7. GONSALVES, J. E., Optics; Photography (part)	7-12-51	7-5-51	1257
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	5-11-51	5-11-51	1753
9. BRANSON, J. H. (Acting), Pumps and Fans; Fluid Motors	5-10-51	5-9-51	1527
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Music; Modulators; Piezo-electric Crystals.	5-3-51	5-1-51	1105
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	6-4-51	5-26-51	931
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	5-23-51	5-28-51	1147
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	5-10-51	5-8-51	1335
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	5-10-51	5-7-51	1665
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	7-21-51	7-6-51	1126
16. LOVEWELL, N. N., Television, Telephony	4-27-51	4-27-51	1252
17. LEIGHEY, R. A., Paper Manufactures; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	4-26-51	4-26 51	1983
18. KURZ, J. A., Power Plants; Speed Responsive Devices	5-4-51	5-4-51	1442
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	5-21-51	5-25-51	1105
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	5-28-51	5-28-51	1403
21. MADER, R. C., Textiles	5-4-51	5-4-51	1390
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	5-14-51	5-14-51	1186
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	4-24-51	4-24-51	866
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	6-16-51	6-23-51	1513
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	6-12-51	6-12-51	1209
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	5-12-51	5-9-51	1228
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	5-21-51	5-17-51	1628
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	5-21-51	5-14-51	1394
29. HABECKER, L. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	5-21-51	5-19-51	1402
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	7-2-51	7-2-51	1528
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	6-27-51	6-1-51	1979
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-1-51	6-2-51	1215
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	5-11-51	5-16-51	2070
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	5-26-51	5-21-51	1369
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	5-8-51	5-2-51	1550
36. McFADYEN, A. D., Measuring and Testing	5-9-51	5-7-51	1336
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	6-11-51	6-7-51	1218
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	6-5-51	5-29-51	1491
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	6-4-51	6-4-51	2454
40. DRUMMOND, E. J., Receptacles (part); Packages	5-19-51	5-15-51	2430
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	5-8-51	5-8-51	1241

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 103,096. Date of oldest new application, April 23, 1951; date of oldest amended application, April 23, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Signs	5-21-51	5-23-51	1266
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	6-14-51	6-19-51	1234
44. HARVEY, L. P., Beds; Chairs, Seats	5-10-51	5-8-51	1423
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	5-18-51	5-18-51	1422
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	5-17-51	5-28-51	884
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	6-5-51	5-19-51	1387
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	5-11-51	5-7-51	1577
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	5-15-51	5-10-51	1538
50. LEVIN, S., Synthetic Resins	7-31-51	7-31-51	1546
51. YAFFEE, S., Radiant Energy (part e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	5-28-51	5-28-51	1041
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-21-51	5-21-51	2117
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	6-11-51	6-1-51	1063
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	6-1-51	5-28-51	1712
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	6-8-51	6-12-51	1134
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	6-7-51	6-1-51	1779
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings: Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	5-19-51	5-23-51	1873
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	5-4-51	5-1-51	1143
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	5-31-51	5-18-51	1129
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	6-12-51	5-31-51	1105
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-10-51	5-8-51	1261
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	5-25-51	5-17-51	1411
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	6-4-51	6-1-51	1636
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	7-23-51	7-20-51	1780
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	5-29-51	5-29-51	1475
66. LISANN, I., Geometrical Instruments, Automatic Weighers; Weighing Scales	5-16-51	5-17-51	1106
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	5-29-51	5-24-51	1186
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	5-7-51	5-4-51	1753
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	5-12-51	5-12-51	1364
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Acinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	5-1-51	5-4-51	1583
DESIGNS: A. BREHM, G. L., Industrial Arts	10-1-51	11-8-51	735
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	10-5-51	11-13-51	742

Total number of trade-mark applications awaiting action (including renewals and republications), 15,380. Date of oldest new application, August 4, 1951; date of oldest amended application, August 2, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	8-4-51	8-2-51	4810
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	8-25-51	8-25-51	3175
Renewals (All Classes)	12-14-51	1-17-52	753
Republications (All Classes)	1-3-52	1-17-52	232
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	8-21-51	8-25-51	3613
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	9-18-51	9-21-51	2797

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

IN RE KAUFMANN

No. 5819. Decided December 18, 1951

[193 F.2d 331; 92 USPQ 141]

1. APPEAL TO THE U. S. COURT OF CUSTOMS AND PATENT APPEALS—UNCHALLENGED STATEMENT BY BOARD ACCEPTED AS TRUE.

Where the Examiner and the Board of Appeals state that a feature is well known and the appellant does not controvert the statement, *Held* that the court will accept such unchallenged statement as true.

2. SAME—REFERENCES NOT INCLUDED IN RECORD—ASSUMED TO DISCLOSE FEATURES FOR WHICH CITED.

Where certain references are not included in the record before the court, it must be assumed that they disclose the features for which they were cited.

3. SAME—DECISION OF BOARD OF APPEALS—BOARD FINDINGS PERSUASIVE WHEN INVENTION IS IN DOUBT.

Where there is doubt on the questions of obviousness or lack of invention, *Held* that the concurrent findings by the tribunals of the Patent Office are persuasive, but not conclusive, on the court, since the Patent Office tribunals presumably are familiar with the advancement of the art.

4. PATENTABILITY—PARTICULAR SUBJECT MATTER—TESTING ARRANGEMENT FOR ELECTRIC APPLIANCES.

Certain claims to a testing arrangement for electrical appliances *Held* properly rejected as failing to define invention over the prior art.

APPEAL from Patent Office. Serial No. 606,937.

AFFIRMED.

Harvey B. Jacobson (*Schubert A. Stricklett* and *Clarence A. O'Brien* of counsel) for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for Commissioner of Patents.

JOHNSON, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office. The Board's decision affirmed the holding of the Primary Examiner rejecting as unpatentable claims 13 and 14, the only remaining claims in appellant's application for a patent on a "Testing Arrangement for Electrical Appliances." The claims were rejected as unpatentable over a combination of references cited by the Examiner.

Appellant's device comprises a test circuit arrangement for testing an electrical appliance having a heating element and a thermostatic switch for controlling the supply of current to this element. This test circuit arrangement, as disclosed by appellant, includes a first branch having a conventional male plug, a conventional manually operated switch, a conventional female plug, and the primary coil of a transformer connected in series in the order recited. The secondary coil of the transformer supplies current to a relay winding which, when energized, actuates a resilient arm which is pivotally mounted adjacent one end of the relay coil. The free end of this arm has a contact thereon which, through pivotal movement of the arm, may be brought into alternate engagement with either a front or back contact, these latter contacts being suitably mounted adjacent the opposite sides of the free end of the arm. There is a small spring attached to the arm at a point between its pivot end and the relay core so as to bias the arm away from the relay and into normal engagement with the so-called back contact. The contact on the pivotable arm is connected by suitable wiring to the first branch at a point between the manually operated switch and the female plug. The front contact is connected in series with a colored bulb (referred to, for convenience, as the red bulb); the back contact is connected in series with a bulb of a different color (referred to, for convenience, as the green bulb). These bulb and contact circuits are in parallel arrangement and are suitably connected to the first branch circuit so that current flows through one or the other depending on whether the contact on the pivotable arm is in engagement with the front or the back contact. All these elements are mounted on any suitable member.

The device is used as follows: The male plug is inserted in any suitable commercial source of alternating current; the appliance to be tested (appellant discloses, as an example, a common flatiron having an adjustable thermostatic heat control switch) is connected in series with the other elements of the first branch circuit by plugging it into the female plug. When the manual switch is closed, if no current flows through the appliance, current will flow through the back contact and the green bulb. This indicates (1) that the power source is supplying current, and (2) that the thermostatic switch is open and/or the appliance operating element is not functioning. However, assuming the thermostatic switch of the appliance to be closed

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CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

and its operating element to be functioning, when the manually operated switch is closed, current will flow through the first branch series circuit. The current flowing through the primary transformer coil in this first branch causes the transformer secondary coil to supply current to the relay winding. This in turn energizes the relay so that it will pull the pivoted arm towards it against the pull of the spring, bringing the contact on the arm into engagement with the front contact and thereby causing the green bulb to go out and the red bulb to light; at the same time, due to the cyclic nature of alternating current, the interaction of the relay and the spring on the resilient arm produces a hum thus giving an additional audible signal. These signals serve to indicate (3) that the operating element of the appliance is functioning and that the thermostatic switch is closed. If desired, the duration of these signals may be timed to determine (4) how long the adjustable thermostatic switch remains closed at any given setting of the switch.

The appealed claims read as follows:

13. For use in testing electrical appliances having an automatically thermostatically controlled switch and having a connector, a testing circuit having two branches and having a first connector for connecting said testing circuit with a source of alternating current and a second connector for connecting said testing circuit with an appliance to be tested, a manual testing switch in a first branch of said testing circuit, current responsive control means operatively connected with the second branch of said testing circuit, two signal circuits connected in parallel with the first branch of the testing circuit between said manually operated testing switch and said second connector, signal producing devices in said signal circuits, said devices being controlled for alternative operation by said current responsive control means selectively opening and closing a resilient switch in said signal circuits; one of said devices in a first signal circuit indicating the presence of a voltage without current flow in an appliance under test, the other device in the second signal circuit indicating the presence of current flow in the testing circuit and in an appliance under test, the successive alternative operation of said devices indicating correct operation of an automatic thermostatically controlled switch in an appliance under test.

14. The structure of claim 13 including spring means continuously urging said resilient switch to close said first signal circuit, said resilient switch thus forming an additional signalling means actuated when there is current flow in said testing circuit, said additional signalling means being audible.

The references relied on by the Patent Office are: Hunt, 1,461,215, July 10, 1923; Varley, 1,485,098, Feb. 26, 1924; Connell et al., 2,194,820, Mar. 26, 1940; Stearns, 2,304,513, Dec. 8, 1942.

The following references were cited in the Examiner's statement as cumulative references: Geiger, 1,704,736, Mar. 12, 1929; Ashworth, 2,250,214, July 22, 1941; Lowell, 2,424.243, July 22, 1947.

The patent to Connell et al. shows a cooking and heating utensil having a resistance heating element. This reference discloses a circuit having a conventional male plug, a push-button switch, an adjustable thermostatic switch, a primary transformer coil, and the said resistance heating element in series. The transformer secondary coil supplies current to an indicating bulb. When the male plug is inserted in any convenient power outlet, upon operation of the switch, current will of course flow through all the elements of the series circuit. The voltage induced by this in the transformer secondary coil causes the indicator light to go on. When the utensil has been heated sufficiently, the thermostatic switch opens thus interrupting the flow of current in the series circuit and causing the indicator light to go out, thereby indicating that the proper temperature has been reached.

The patent to Stearns discloses an electrical testing apparatus. Among other things, this patent shows a relay-operated pivoted arm having a contact on its end that may alternately engage one of two contacts which are connected to two parallel signal circuits. One of these circuits has a green bulb; the other has a red bulb and an audible indicator such as a bell or horn. Through appropriate action of the relay, the green bulb indicates that test results are as desired, whereas the red bulb and audible indicator indicate undesirable test results. This patent also discloses incidentally that, if desired, another bulb may be connected across the line between the main switch and the testing apparatus to indicate whether or not the power source is supplying current.

The patents to Hunt and Varley show relay-operated, contact-closing, pivoted arms which are spring-biased in a manner very similar to that in appellant's device, the relay-operated arms in these patents being also used to produce an audio tone.

The Examiner rejected claims 13 and 14 as unpatentable over Connell et al. in view of Stearns. The Connell et al. patent was relied on as showing an indicating circuit having substantially the same elements operating in essentially the same manner as in applicant's device. The Examiner was of the opinion that it would not require invention to substitute the relay-operated, two bulb, indicating device of Stearns in place of the single indicating bulb shown in Connell et al. The Board agreed with the Examiner's holding, suggesting in its opinion a possible way that this might be done. Claim 14 was further rejected in view of Hunt or Varley.

[1] The Board noted that it is common practice to employ spring means such as shown in Hunt and Varley for the purpose of biasing the armature of a relay. Both the Examiner and the Board stated that it is well known that a relay energized by alternating current will inherently produce an audible signal unless measures are taken to prevent vibration of the relay armature. Appellant has not controverted this statement and the court will accept such unchallenged statement as true. *In re Valko et al.*, 36 CCPA (Patents) 899, 173 F.2d 275, 81 USPQ 102, 622 O. G. 953, and cases cited therein.

[2] The Examiner stated that the cumulative references were cited "* * * to emphasize the obviousness of connecting a relay to energize one or the other of two indicator bulbs." Since these were not included in the record before us, it must be assumed that they disclose the features for which they were cited. *In re Pirani and Nitschke*, 22 CCPA (Patents) 1002, 75 F.2d 223, 24 USPQ 411, 457 O. G. 246; *In re Kluter*, 25 CCPA (Patents) 730, 92 F.2d 906, 35 USPQ 460, 488 O. G. 213.

Appellant conceded before the Patent Office tribunals that none of the elements in his device are in themselves novel. Moreover, in his brief before this court, appellant admitted that the substitution suggested by the Board would produce a similar circuit; but he argues there is still no second connector such as is recited in the claims. Neither the Board nor the Examiner discussed this second connector. However, the Solicitor of the Patent Office urged this court to take judicial notice of the fact that it is quite common to use more than one conventional plug in making up an electrical circuit, citing as a common example the ordinary commonplace extension cord. The court does take judicial notice of that fact.

Appellant, although making the admissions noted above, contends that the prior art does not disclose a device capable of performing each of the four functions identified as (1), (2), (3) and (4) in the discussion above of the intended mode of operation of appellant's apparatus. Since the substitution of the relay-operated indicating system of Stearns for the indicating bulb of Connell et al., as suggested by the Board, will produce a circuit similar to appellant's, as he himself admits, the court is of the opinion that such circuit can be used to obtain the same indications. We do not deem such use inventive, particularly in the light of the fact that the device of Connell et al. is an analogous indicating device capable of providing similar information.

The contentions discussed above are ancillary to appellant's basic contention. Appellant's basic contention, which he urges most strongly, is that he has provided a new and useful combination of old elements which can perform functions not capable of being performed by any single or individual device shown in the prior art. "This in itself," he argues, "would appear to assure patentability of the device."

That there may be a rejection of claims based on a combination of several patents, taking specific features from each, is so well settled that we believe an elaborate discussion on this point is unnecessary. *In re Kamlet*, 38 CCPA (Patents) 776, 185 F.2d 709, 88 USPQ 106, 644 O. G. 5; *In re Smith*, 34 CCPA (Patents) 1007, 161 F.2d 274, 73 USPQ 394, 603 O. G. 184. It is not necessary that a complete disclosure be contained in a single reference. *In re Streckert, et al.*, 35 CCPA (Patents) 1148, 167 F.2d 1010, 77 USPQ 592, 613 O. G. 1085; *In re Horney*, 34 CCPA (Patents) 968, 161 F.2d 271, 73 USPQ 293, 603 O. G. 181.

Appellant has cited several cases which hold that a new combination of old elements may be patentable. This is, of course, well settled. But not all new combinations are patentable. It is equally well settled that if a new combination of old elements is to be patentable, the elements must cooperate in such manner as to produce a new, unobvious, and unexpected result. It must amount to an invention. *In re Smith*, 34 CCPA (Patents) 1007, cited supra. In the absence of invention, utility and novelty are not sufficient to support the allowance of claims for a patent. *In re Levin*, 37 CCPA (Patents) 791, 178 F.2d 945, 84 USPQ 232, 634 O. G. 7; *In re Hass et al.*, 31 CCPA (Patents) 895, 141 F.2d 122, 60 USPQ 544, 563 O. G. 576. It is trite to say that invention is difficult to define positively. However, we believe it to be a settled rule that it is not invention to produce a device which is within the realm of performance of a skilled mechanic in the ordinary progress of producing a device required to effectuate a given result. See the discussion with extensive citation of cases in "Walker on Patents," Deller's Edition, 1937, and 1951 Cumulative Supplement, at pages 138–139 and 142. It is our opinion that this rule is implicit in the holding of *In re Smith*, 34 CCPA (Patents) 1007, cited supra, which case involved a situation analogous to that of the case at bar.

In the light of the foregoing, it appears to us that the essential question in this case is whether or not appellant, in producing his device by combining admittedly old elements, exercised inventive faculty sufficient to support the allowance of claims for a patent. We are in agreement with the Board of Appeals that he did not. The old elements do not perform any new or unexpected functions in appellant's device; the results obtained from this allegedly new combination do not impress this court as being unobvious or unexpected. [3] We should like to note that if there were any doubt, the concurrent findings of obviousness or lack of invention by the tribunals of the Patent Office would be persuasive, although not conclusive, upon this court, since the Patent Office tribunals presumably are familiar with the advancement of the art. *In re Smith*, 34 CCPA (Patents) 1007, cited supra. However, the court entertains no doubt in the case at bar.

[4] In view of the discussion hereinbefore set out, the decision of the Board of Appeals as to claims 13 and 14 is affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,975,109, Laughlin & Asch, Method and apparatus for treating sewage; 2,141,153, W. C. Laughlin, Sealing plate for sand filter cleaner, D. C., S. D. N. Y., Doc. 20/11, *C. E. Fraser* v. *Underpinning & Foundation Co., Inc., et al.* Order of discontinuance Jan. 29, 1952.

2,010,193, J. L. Lyle, Bunch builder; 2,140,084, same, Bunch builder and safety latch, filed Jan. 31, 1952, D. C., W. D. S. C. (Greenville), Doc. 1231, *J. L. Lyle* v. *W. H. Hudson, Jr., et al.*

2,030,442, Garfield & Scott, Roller bearing bit, filed Jan. 23, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 13764–T, *Security Engineering Co., Inc.* v. *Hughes Tool Co.*

2,070,140, Peterson & Delmel, Clutch for transmission gears, D. C., S. D. Ind. (Indianapolis), Doc. 2359, *Dana Corp.* v. *Borg-Warner Corp.* Case dismissed without prejudice Jan. 2, 1952.

2,078,873, C. A. Binger, Mailing device with reply members, D. C., S. D. N. Y., Doc. 35/316, *The Reply-O Products Co.* v. *S. L. Unger et al.* Order dismissing cause for lack of prosecution Dec. 12, 1951.

2,140,084. (See 2,010,193.) 2,141,153. (See 1,975,109.)

2,153,355, 2,217,325, 2,328,516, G. W. von Hofe, Labeling machine, filed Jan. 31, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13235, *New Jersey Machine Corp.* v. *Dumatic Industries et al.*

2,217,325. (See 2,153,355.)

2,227,090, D. E. Hughes, Crushing and grinding machine, filed Jan. 29, 1952, D. C., W. D. Mich. (Grand Rapids), Doc. 1984, *D. E. Hughes* v. *Salem Co-operative Co., Inc.*

2,299,269, J. R. Gammeter, Method and apparatus for making dipped rubber articles, D. C., S. D. N. Y., Doc. 43/403, *John R. Gammeter* v. *Allied Latex Corp. et al.* Stipulation and order of discontinuance Jan. 29, 1952.

2,300,157, G. R. Hunt, Feather-picking apparatus for fowls, D. C., W. D. Ark. (Fort Smith), Doc. 975, *A. M. Hunt* v. *Charles Keeshin, Inc.* Patent decreed and adjudged valid and infringed; injunction Jan. 28, 1952.

2,327,347, F. E. Gibbin, Saliva ejector, D. C., W. D. N. Y., Doc. 4023, *E. B. Gibbin* v. *Walling Bros, Inc., et al.* Order of discontinuance Jan. 8, 1952.

2,328,516. (See 2,153,355.)

2,444,748. (See Re. 23,261.)

2,470,265, H. Richter, Setting apparatus for textile fabrics, D. C., E. D. Pa. (Philadelphia), Doc. 12025, *Paramount Textile Machinery Co.* v. *Turbo Machine Co. et al.* Stipulation dismissing action Jan. 24, 1952.

2,496,381, W. G. Cummings, Dope brush, D. C., N. D. Okla. (Tulsa), Doc. 2855, *W. D. Moore* v. *W. G. Cummings.* Patent held invalid Feb. 1, 1952.

2,512,775. (See 2,444,748.)

2,515,601, G. A. Hughes, Foundation apparel device, D. C., S. D. Calif. (Los Angeles), Doc. 12591-Y, *G. A. Hughes* v. *Hollywood-Maxwell Co. et al.* Claims 1, 2, and 3 held invalid; complaint dismissed with prejudice (notice Feb. 4, 1952).

2,561,270, P. W. Felt, Liquefied petroleum gas lighter; 2,571,435, A. L. Flamm, Gas fuel cigar lighter, suit for declaratory judgment filed Dec. 31, 1951, D. C., S. D. N. Y., Doc. 72/133, *Ronson Art Metal Works, Inc.* v. *Brown & Bigelow, Inc.* To correct error in 655 O. G. 5, formerly published as decree having been rendered.

2,571,435. (See 2,561,270.)

Re. 19,023, L. V. Aronson, Cigar lighter, D. C., E. D. Mo. (St. Louis), Doc. 7923(2), *Ronson Patents Corp.* v. *Sparklets Devices, Inc.* Reissue held not infringed; complaint dismissed Jan. 30, 1952.

Re. 21,595, M. Imershein, Undergarment, filed Jan. 30, 1952, D. C., S. D. N. Y., Doc. 73/55, *Graceform-Camlin Corset Co., Inc.* v. *Renette Foundations, Inc.*

Re. 23,261 (of 2,444,748), A. J. Parissi, Clock with visible and audible alarm means; 2,512,775, same, Signaling device, appeal filed Jan. 25, 1952, C. C. A., 2d Cir., Doc. 22262, *Telechron, Inc., et al.* v. *A. J. Parissi.*

Des. 151,732, W. G. Bley, Lady's stocking, D. C., S. D. N. Y., Doc. 68/352, *Sanson Hosiery Mills, Inc., et al.* v. *Amethyst Hosiery Co.* Consent judgment holding infringement; injunction (notice Feb. 5, 1952).

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 72,061, Chess Bros., Expanded metal, filed Feb. 1, 1952, D. C., W. D. Pa. (Pittsburgh), Doc. 10247, *Wheeling Corrugating Co.* v. *The Pioneer Co.*

T. M. 282,644, Europa Schreibmaschinen A. G., Typewriter and parts thereof, filed Jan. 25, 1952, D. C., S. D. N. Y., Doc. 72/389, *Inter-Continental Trading Corp.* v. *Tytell Typewriter Co., Inc.*

T. M. 342,616, Texas Tanning & Mfg. Co., Belts for men, filed Feb. 5, 1952, D. C., S. D. N. Y., Doc. 73/118, *Texas Tan of Yoakum* v. *Cowboy Suits, Inc.*

T. M. 389,794, Meletio Sea Food Co., Inc., Food Preparation, filed Feb. 1, 1952, D. C., E. D. Mich. (Detroit), Doc. 11279, *Meletio Sea Food Co.* v. *Golden Krisp Food Products Co.*

NOTICES

Adjudicated Patent

(C. A. Md.) Martin Patent No. 2,498,374, for a treatment of mammary glands, *Held* invalid. *Martin* v. *Wyeth, Inc.*, 193 F.2d 58; 91 USPQ 314.

Cancellation Notices

Paul Kenda, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Harold D. Douglas, 7208 Sepulveda Boulevard, Van Nuys, California, to effect the cancellation of trade-mark registration of Paul Kenda, 424 Carson Street, San Antonio, Texas, No. 370,462, dated August 29, 1939, and the notice of such proceeding sent by registered mail to the said Paul Kenda, at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paul Kenda, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Mar. 11, 1952.)

ERNEST F. KLINGE,
Feb. 12, 1952. *Assistant Commissioner of Patents.*

Stamatis Polychronopoulos, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lekas & Drivas, Inc., 19–21 Roosevelt St., New York, N. Y., to effect the cancellation of trade-mark registration of Stamatis Polychronopoulos, 214 East 22nd St., New York, N. Y., No. 311,412, dated March 20, 1934, and

the notice of such proceeding sent by registered mail to the said Stamatis Polychronopoulos, at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Stamatis Polychronopoulos, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Mar. 11, 1952.)

ERNEST F. KLINGE,
Feb. 19, 1952. *Assistant Commissioner of Patents.*

656 O. G.—20

Disclaimer

2,525,521.—*John R. Caldwell*, Kingsport, Tenn. COPOLYMERS OF ACRYLONITRILE AND 2-METHALLYL ALCOHOL. Patent dated Oct. 10, 1950. Disclaimer filed Jan. 31, 1952, by the assignee, *Eastman Kodak Company.*

Hereby enters this disclaimer to claims 1, 5, and 7 of said patent without in any way modifying the scope, or affecting the validity of the remaining claims.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,230,376. Household Appliance. Patented Feb. 4, 1941. Can opener may be used to puncture flat top cans and form pouring spouts for the openings when desired, to remove caps and lids, and as a screwdriver. Device has a solid tapered puncturing member of substantial thickness spaced from a hook portion. During a punching operation, the puncturing member fills the opening and prevents the escape of contents when opening cans containing carbonated beverages. The puncturing member presses the metal punched from the opening against the inner side of the can. When desired, after formation of an opening, a notch in the edge of the device may be used to deform the edge of can adjacent the opening to form a pouring spout. (Owner) John B. Smiley, 2000 Connecticut Ave. NW., Washington 8, D. C. Groups 33—51—73; 40. Reg. No. 46,698.

Des. 126,253. Design for a Combination Screw Driver and Cap and Lid Remover. Patented Apr. 1, 1941. Small tapered device terminates at one end in a screwdriver bit. The wide end is formed with an opening, with a tongue projecting into the opening to form a cap and lid remover. (Owner) John B. Smiley, 2000 Connecticut Ave. NW., Washington 8, D. C. Groups 33—51—73; 40. Reg. No. 46,699.

Pat. 2,567,178. Truck for Loading and Conveying Building Materials. Patented Sept. 11, 1951. This patent shows a truck equipped with a power-operated loading and unloading attachment which enables a single operator to load, deliver, and unload building blocks, bricks, or other building material stacked on pallets. A power transmission assembly of the attachment associated with the vehicle drive shaft includes a transverse work shaft on which terminal pinions are slidably keyed. The pinions normally mesh with sector gear wheels to oscillate pallet-handling arms secured to the wheels. The free ends of the arms carry a hoist frame having suspended cable slings to engage a pallet. The bed of the truck has antifriction runways to aid in moving pallets from one end to the other. The attachment also includes a winch mounted on the work shaft. When desired, the winch may be independently operated by shifting the pinions out of engagement with the sector gear wheels. (Owner) Milton W. Bird, Wenatchee Brick & Tile Co., 9th and Pine Sts., Wenatchee, Wash. Groups 35—31—63—69; 38—11. Reg. No. 46,700.

Pat. 2,562,574. Device for Storing and Feeding Elongated Flexible Pipe-Cleaning Members. Patented July 31, 1951. Pipe-cleaning machine is adapted to rotate a flexible snake and move it into and out of a pipe line to be cleaned, and give radial support to the snake close to the entrance into the pipe. The snake is wound on a rotatable slidably mounted drum with the free end of snake extending through a bowl-shaped guide and through a central threaded opening in a rotatable pulley. The threaded opening snugly engages the helical turns of the snake to positively advance or retract the snake as it is unwound from or wound on the drum. The drum may be shifted toward the guide to insure tight winding of the snake on the drum as it is withdrawn from pipe line. An adapter is provided for sealingly connecting the threaded opening to a pipe to be cleaned. The adapter is equipped for flushing a pipe line as it is being cleaned, or after the snake is withdrawn, and for conducting the flushings away. (Owner) Richard A. Poekert, 3141 McRoberts Rd., Pittsburgh 34, Pa. Groups 33—52; 35—43—59. Reg. No. 46,701.

Pat. 2,413,815. Gelatin Preparation. Patented Jan. 7, 1947. Process of producing a palatable, potable, and chemically stable non-gelling solution containing gelatin in a concentration of no less than 12 percent. Phosphoric acid is added to a gelatin hydrosol, and the solution is boiled until heavy precipitation occurs. Sufficient phosphoric acid is retained to reduce the pH of the fluid food product to between 5.9 and 5.7. (Owner) Albert A. Epstein, 1111 Madison Ave., New York, N. Y. Groups 20—99; 28—94. Reg. No. 46,702.

Pat. 2,457,036. Coffee Concentrate and the Process of Producing It. Patented Dec. 21, 1948. Water-soluble solid coffee concentrate made by this process is not chemically altered by age or exposure. Coffee extract is homogeneously fused into a vitrified carbohydrate base to seal in the volatile aromatic and flavor components and potency factor. The coffee extractives are taken up by the fused base without charring or loss of volatile components. The carbohydrate base has a melting point below 100° C., and will dissolve in hot water. (Owner) Albert A. Epstein, 1111 Madison Ave., New York, N. Y. Group 20—99. Reg. No. 46,703.

Pat. 2,564,535. Windshield Wiper. Patented Aug. 14, 1951. Windshield wiper has an oscillating stroke combined with radial reciprocating movement whereby successive concentric swaths of the windshield surface are cleaned to insure extensive and clear vision. A jack bar with ratchet teeth in each edge is slidably mounted on an oscillating pivotally mounted arm. An intermittently movable carrier slidably mounted on the jack bar is equipped for use with interchangeable ice scrapers or blades as well as flexible wipers. A trip on arm changes position of pawls as carrier reaches the ends of arm to reverse the direction of travel. (Owner) Clarence H. Krueger, Route 2, Box 73, Bovey, Minn. Group 38—31. Reg. No. 46,704.

Pat. 2,570,550. Closure Cap for Fuel Tanks. Patented Oct. 9, 1951. Cap for vehicle fuel tanks to be permanently attached to the filler neck has a valve that automatically opens by pressure of a filler hose nozzle and automatically closes when nozzle is removed. Includes a plate to rest on flange of filler neck carrying a depending slotted tube to extend in filler neck. A U-shaped member resiliently connected to bottom of the tubular portion by a screw and spring has upwardly extending locking legs to engage lower surface of the flange. When pressure is applied to the screw, the locking legs are forced downwardly and spring outwardly. Release of pressure permits the legs to engage the flange to lock the cap to filler neck. (Owner) Oliver D. Hanson, Jr., 4313 Clayton St., Denver, Colo. Group 38—31. Reg. No. 46,705.

Pat. 2,420,598. Liquid Fuel Burner. Patented May 13, 1947. Liquid fuel burner has a single air supply conduit curving around the air-mixing chamber. The conduit is divided into two ducts to admit air on opposite sides of the mixing chamber and thereby bring about improved air distribution and superior combustion. Modification given. (Owner) James H. Jackson, 8781 Quincy Ave., Detroit 4, Mich. Group 33—63—65—69. Reg. No. 46,706.

Pat. 2,435,833. Bottle Carrier. Patented Feb. 10, 1948. A device for carrying bottles suspended by the necks has a vertical plate, which separates the rows of bottles, formed at the upper end into a handle. The plate has a restricted neck adjacent the handle, and terminates in a wider portion at lower end. A pair of elongated holders are hingedly connected to straddle the neck portion; in each are bottle neck-receiving apertures. The holders are raised to insert bottles, and when the carrier is lifted the holders drop down, gripping the bottle necks. (Owner) Paul J. Haselet, R. R. 6 Edgebrook, Fort Wayne, Ind. Groups 26—61—69; 33—73; 34—41; 40. Reg. No. 46,707.

Pat. 2,537,652. Mattress Cover. Patented Jan. 9, 1951. Adjustable wrinkle-proof mattress protector has a fabric sheet to be placed under a mattress, and a rubber sheet to be placed over top of mattress. The ends of the two sheets are joined by strips of elastic webbing fastened to the fabric sheet and attached to rubber sheet by slide fasteners so that rubber sheet may be removed for cleaning. The elastic webbing maintains the rubber sheet firmly and smoothly on top of mattress. (Owner) Emma D. Churchill, Minnesota Ave., Glenwood, Minn. Groups 23—93; 25—32; 30—41. Reg. No. 46,708.

General Electric Company offers the following patents for non-exclusive licensing on reasonable terms, to domestic manufacturers. Applications for license may be addressed to: Manager, Patent Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The Register Numbers in this group include Nos. 46,709 through 46,820.

Pat. 2,000,713. Clutch. May 7, 1935. Group 35—66.

Pat. 2,000,741. Fluid Jet Pump. May 7, 1935. Group 35—61.

Pat. 2,005,486. Electric Generator System. June 18, 1935. Group 36—19.

Pat. 2,009,099. Variable Speed Transmission. July 23, 1935. Groups 35—66; 36—19.

Pat. 2,011,374. Brush Holder. Aug. 13, 1935. Group 36—41.

Pat. 2,019,336. Insulating and Cooling Composition for Electric Devices. Oct. 29, 1935. Groups 32—29; 36—11.

Pat. 2,025,548. Protective Means for Mercury Arc Devices. Dec. 24, 1935. Group 36—19.

Pat. 2,025,570. Filtering Apparatus. Dec. 24, 1935. Group 35—61.

Pat. 2,030,662. Block Signal System. Feb. 11, 1936. Group 36—62.

Pat. 2,030,675. Block Signal System. Feb. 11, 1936. Group 36—62.

Pat. 2,030,679. Protection of Electric Circuits. Feb. 11, 1936. Group 36—19.

Pat. 2,045,493. Welded Frame for Combustion Engines. June 23, 1936. Group 35—19.

Pat. 2,048,510. Belt Tightener Base. July 21, 1936. Group 36—19.

Pat. 2,050,094. Compressor. Aug. 4, 1936. Group 35—61.

Pat. 2,056,785. Safety Pinion. Oct. 6, 1936. Group 35—69.

Pat. 2,059,853. Bolt and Nut Connection. Nov. 3, 1936. Group 33—12—91.

Pat. 2,068,570. Rotary Pump. Jan. 19, 1937. Group 35—61.

Pat. 2,076,383. Process for Improving the Magnetic Properties of Silicon Steel. Apr. 6, 1937. Group 28—34.

Pat. 2,079,466. Electrical Control System. May 4, 1937. Group 36—19.

Pat. 2,081,799. Fluid Pressure Equalising Arrangement. May 25, 1937. Group 35—61.

Pat. 2,084,862. Flange Coupling Arrangement. June 22, 1937. Group 35—69.

Pat. 2,095,820. Control Mechanism for Multiple Hydraulic Gears. Oct. 12, 1937. Group 35—61—66—69.

Pat. 2,099,573. Electric Switch. Nov. 16, 1937. Group 36—19.

Pat. 2,099,582. Brazing Flux. Nov. 16, 1937. Group 28—34.

Pat. 2,101,671. Magnetic Clutch. Dec. 7, 1937. Groups 35—66; 36—41.

Pat. 2,112,735. Mineral Oil Product. Mar. 29, 1938. Group 32—29—64.

Pat. 2,113,456. Speed Reduction Phonograph Drive. Apr. 5, 1938. Group 36—61.

Pat. 2,114,858. Throttle Valve. Apr. 19, 1938. Group 36—19.

Pat. 2,114,875. High Voltage Bushing. Apr. 19, 1938. Group 36—11.

Pat. 2,120,855. Electric Circuit. June 14, 1938. Group 36—14.

Pat. 2,128,162. Electric Control System. Aug. 23, 1938. Group 36—19.

Pat. 2,138,654. Pressure Equalising Arrangement for Reciprocating Pumps. Nov. 29, 1938. Group 35—61.

Pat. 2,141,899. Feed Water Preheater. Dec. 27, 1938. Group 37—11.

Pat. 2,153,361. Surface Condenser. Apr. 4, 1939. Group 36—11.

Pat. 2,157,834. Electric Regulating System. May 9, 1939. Group 36—19.

Pat. 2,159,766. Labyrinth Packing. May 23, 1939. Group 35—66.

Pat. 2,159,826. Electric Capacitor. May 23, 1939. Group 36—11.

Pat. 2,160,687. Plural Motor Control System. May 30, 1939. Group 36—19—41.

Pat. 2,168,177. System of Distribution. Aug. 1, 1939. Group 36—19.

Pat. 2,176,716. Regulating Device. Oct. 17, 1939. Group 35—61.

Pat. 2,186,473. Electric Protective System. Jan. 9, 1940. Group 36—19.

Pat. 2,188,172. Heat Transfer System. Jan. 23, 1940. Group 35—19.

Pat. 2,195,993. Flexible Coupling. Apr. 2, 1940. Group 35—69.

Pat. 2,197,631. Keyed Shaft Structure. Apr. 16, 1940. Group 35—69.

Pat. 2,201,873. Electric Valve Converting System. May 21, 1940. Group 36—19.

Pat. 2, 205,187. Purification of Halogenated Hydrocarbons. June 18, 1940. Groups 28—86; 29—11.

Pat. 2,205,292. Heat Exchanger Unit. June 18, 1940. Group 35—19.

Pat. 2,207,577. Electric Protective System. July 9, 1940. Group 36—19.

Pat. 2,220,765. Vitreous Material. Nov. 5, 1940. Group 36—11.

Pat. 2,220,774. Ceramic Material. Nov. 5, 1940. Group 36—11.

Pat. 2,220,775. Ceramic Material. Nov. 5, 1940. Group 36—11.

Pat. 2,225,338. Immersion Pump Arrangement. Dec. 17, 1940. Group 35—61.

Pat. 2,234,996. Cable-Making Machine. Mar. 18, 1941. Group 35—52.

Pat. 2,236,281. Anchor Mechanism. Mar. 25, 1941. Groups 35—63; 37—99.

Pat. 2,248,636. Bentonite Product. July 8, 1941. Group 26—39.

Pat. 2,259,138. Method of Preparing Electrically Insulating Material. Oct. 14, 1941. Group 36—11.

Pat. 2,264,859. Annealing Silicon Steel Strip. Dec. 2, 1941. Groups 28—88; 33—99.

Pat. 2,269,219. Method of Making Soldered Electrical Connections. Jan. 6, 1942. Group 36—31.

Pat. 2,288,390. Electrical Connector. June 30, 1942. Group 36—31.

Pat. 2,306,183. Elastic Fluid Generator. Dec. 22, 1942. Group 36—19.

Pat. 2,307,605. Magnetic Material Heat Treatment. Jan. 5, 1943. Group 28—88.

Pat. 2,310,086. Surface Type Heat Exchanger. Feb. 2, 1943. Group 36—19.

Pat. 2,312,924. Locomotive Drive Arrangement. Mar. 2, 1943. Group 36—19.

Pat. 2,336,290. Elastic Fluid Turbine Arrangement. Dec. 7, 1943. Group 35—61.

Pat. 2,343,132. Distribution System and Protective Arrangement Therefor. Feb. 29, 1944. Group 36—19.

Pat. 2,350,936. Surface Type Heat Exchanger. June 6, 1944. Group 36—19.

Pat. 2,354,036. Hydraulic Jack. July 18, 1944. Group 35—69.

Pat. 2,354,037. Hydraulic Jack and Brake Arrangement for Vertical Generators and the Like. July 18, 1944. Group 35—69.

Pat. 2,355,484. Brake System. Aug. 8, 1944. Group 35—69.

Pat. 2,363,856. Regulating Circuit. Nov. 28, 1944. Group 36—19.

Pat. 2,370,526. Hydraulic Torque Transmission Arrangement. Feb. 27, 1945. Group 35—61.

Pat. 2,374,588. Hydraulic Torque Transmission Arrangement. Apr. 24, 1945. Group 35—61.

Pat. 2,379,767. Brake for Heavy Vehicles. July 3, 1945. Groups 35—42—69; 38—31.

Pat. 2,386,071. Clutch Construction. Oct. 2, 1945. Group 35—66.

Pat. 2,387,614. Electrical Contact Element. Oct. 23, 1945. Group 36—41.

Pat. 2,388,699. Driving Mechanism. Nov. 13, 1945. Group 35—66.

Pat. 2,388,700. Driving Mechanism. Nov. 13, 1945. Group 35—66.

Pat. 2,396,950. Electric Brake. Mar. 19, 1946. Group 35—69.

Pat. 2,399,008. Hydraulic Gear of the Positive Displacement Type. Apr. 23, 1946. Group 35—61—66.

Pat. 2,399,539. Antifriction Bearing Having Fluid Passage. Apr. 30, 1946. Group 35—66.

Pat. 2,399,925. Unidirectional Gear Drive. May 7, 1946. Group 35—66.

Pat. 2,401,175. Ignition System. May 28, 1946. Group 36—41.

Pat. 2,409,503. Dynamoelectric Machine. Oct. 15, 1946. Group 36—19.

Pat. 2,420,552. Driving Mechanism. May 13, 1947. Group 35—66.

Pat. 2,420,553. Torque Limiting Driving Mechanism. May 13, 1947. Group 35—66.

Pat. 2,424,826. Sequential Electric Switching System. July 29, 1947. Group 36—19.

Pat. 2,427,337. Vinylfluorenes and Method of Preparing the Same. Sept. 16, 1947. Group 28—83—89.

Pat. 2,434,480. Brake Mechanism. Jan. 13, 1948. Group 35—69.

Pat. 2,435,440. Reversible Motor Drive. Feb. 3, 1948. Group 36—19.

Pat. 2,444,799. Generation System. July 6, 1948. Group 36—41.

Pat. 2,445,181. Polymers and Copolymers of Acenaphthylene. July 13, 1948. Group 28—83.

Pat. 2,445,590. Driving Mechanism. July 20, 1948. Group 35—66.

Pat. 2,453,493. Halogenated Hydrocarbon Composition. Nov. 9, 1948. Group 28—34.

Pat. 2,461,298. Combination Coupling and Overload Cam Operated Device. Feb. 8, 1949. Group 35—66.

Pat. 2,464,567. Regulator System. Mar. 15, 1949. Group 36—19.

Pat. 2,469,203. Electric Switch. May 3, 1949. Group 36—19.

Pat. 2,486,116. Electric Capacitor. Oct. 25, 1949. Group 36—12.

Pat. 2,510,645. Air Nozzle and Porting for Combustion Chamber Liners. June 6, 1950. Groups 35—66; 36—19.

Pat. 2,551,259. Electrical Terminal Board. May 1, 1951. Group 36—31.

Pat. 2,561,855. Ballast Construction. July 24, 1951. Group 36—19.

Pat. 2,566,912. Strain Relief Device. Sept. 4, 1951. Group 36—31.

Pat. 2,570,088. Direct Current Amplifier. Oct. 2, 1951. Group 36—62.

Pat. 2,570,097. Shelf Supporting Arrangement. Oct. 2, 1951. Group 35—84.

Pat. 2,570,125. Interlocking Signaling System for Electrical Indicating Instruments. Oct. 2, 1951. Group 36—13—62.

Pat. 2,570,151. Cyclic Gear Mechanism. Oct. 2, 1951. Groups 35—66; 38—31.

Pat. 2,570,170. Compound Escapement With Spring Mounted Mass. Oct. 2, 1951. Group 36—19.

Pat. 2,570,174. Metal Cleaning and Plating Process. Oct. 2, 1951. Group 34—72.

Pat. 2,570,747. Rotary Shelf Cabinet. Oct. 9, 1951. Group 25—11.

Pat. 2,570,798. Regulation of High-Frequency Oscillators. Oct. 9, 1951. Group 36—19.

Pat. 2,570,800. Connector for Dynamoelectric Machines. Oct. 9, 1951. Group 36—11—31.

Pat. 2,570,862. Fluid Pump With Direction Responsive Impeller Blades. Oct. 9, 1951. Group 35—61.

Pat. 2,570,878. Glass Compositions. Oct. 9, 1951. Groups 32—29; 36—11.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 11, 1952

[VOL. 656. No. 2]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 37

PAPER AND STATIONERY

Ser. No. 526,090. Western Tablet & Stationery Corporation, Dayton, Ohio. Filed July 3, 1947.

PARCHTONE

For Papeteries, i. e., Stationery Comprising Envelopes and/or Paper Either Flat or Folded, Put Up in Boxes, Portfolios or Banded Packages.
Claims use since June 17, 1938.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 589,464. Northwood Fur Farms, Cary, Ill. Filed Dec. 16, 1949.

NORTH WOOD

For Mink Pelts and Live Minks.
Claims use since 1936.

Ser. No. 592,061. Walter Abeles, Toronto, Ontario, Canada. Filed Feb. 7, 1950.

"GREEN-LANDS"

The word "Green" is disclaimed.
For Pasture Seed Mixture.
Claims use since June 1944.

Ser. No. 597,063. Canadian International Paper Company, Montreal, Quebec, Canada. Filed May 8, 1950.

NOVOCELL

For Wood Pulp.
Claims use since January 1934.

Ser. No. 599,136. West Virginia Pulp and Paper Company, New York, N. Y. Filed June 14, 1950.

COVOIL

For Tall Oil.
Claims use since May 2, 1950.

Ser. No. 602,984. Weston Dodson & Company Incorporated, Bethlehem, Pa. Filed Aug. 30, 1950. (Sec. 2f.)

WESTON DODSON & Co. Inc.

Applicant claims ownership of Registration No. 190,977.
For Coal.
Claims use since January 1913.

Ser. No. 605,064. Syndicat Francais des Textiles Artificiels, Paris, France. Filed Oct. 17, 1950.



Priority is claimed under Sec. 44(d). French Registration No. 403,547, dated June 6, 1950.
For Discontinuous Fibres of Rayon.

Ser. No. 605,068. Syndicat Francais des Textiles Artificiels, Paris, France. Filed Oct. 17, 1950.



Priority claimed under Sec. 44(d). French Registration No. 403,548, dated June 6, 1950.
Discontinuous Fibres of Rayon.

Ser. No. 605,072. Syndicat Francais des Textiles Artificiels, Paris, France. Filed Oct. 17, 1950.



Priority is claimed under Sec. 44(d). French Registration No. 403,549, dated June 6, 1950.
For Discontinuous Fibres of Rayon.

Ser. No. 605,200. C. L. Davis, doing business under the name and style Davis Coal Company, Williamsburg, Ky. Filed Oct. 20, 1950.



The portrait is fanciful and the word "Coal" is disclaimed.
For Coal.
Claims use since Aug. 31, 1950.

Ser. No. 605,693. Suhr & Budelman, Inc., New York, N. Y. Filed Oct. 31, 1950.

E J C

For Lac or Natural Resin.
Claims use since January 1936.

Ser. No. 606,006. Eagle-Flagg Tanning Corporation, New York, N. Y. Filed Nov. 7, 1950.



The word "Flagg" is disclaimed.
For Leather in the Piece for Shoe Uppers.
Claims use since Mar. 1, 1950.

Ser. No. 607,116. Carmac Coal Company, Chicago, Ill. Filed Nov. 30, 1950.



The terms "Calibrated" and "Stoker" are disclaimed.
For Coal.
Claims use since Sept. 25, 1950.

Ser. No. 607,117. Carmac Coal Company, Chicago, Ill. Filed Nov. 30. 1950.



The word "Coal" and the representations of coal are disclaimed.
For Coal.
Claims use since Sept. 22, 1950.

Ser. No. 608,261. Whitehead Brothers Company, New York, N. Y. Filed Dec. 30, 1950.

PARTAMOL

For Parting Compounds for Use in Casting Metals.
Claims use since Nov. 6, 1950.

Ser. No. 610,363. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Feb. 21, 1951.

Plio-Tuf

The word "Tuf" is disclaimed.
For Material in Sheet Form Comprising a Vulcanized Blend of Synthetic Resin and Synthetic Rubber.
Claims use since Apr. 11, 1949.

Ser. No. 614,495. Dixie Pine Products Company, Inc., Hattiesburg, Miss. Filed May 29, 1951.

GORITE

For Rosin.
Claims use since July 1, 1948.

Ser. No. 615,380. Israel Fliegelman, New York, N. Y. Filed June 19, 1951.



The word "Otter" is disclaimed.
For Fur Skins.
Claims use since Feb. 23, 1951.

Ser. No. 616,069. American Cyanamid Company, New York, N. Y. Filed July 5, 1951.

CRESLAN

For Synthetic Fiber in the Form of Filament Fiber, Staple Fiber, and Tow.
Claims use since June 21, 1951.

Ser. No. 616,072. American Cyanamid Company, New York, N. Y. Filed July 5, 1951.

CYANA

For Synthetic Fiber in the Form of Filament Fiber, Staple Fiber, and Tow.
Claims use since June 21, 1951.

Ser. No. 616,239. Northern Illinois Coal Corporation, Chicago, Ill. Filed July 9, 1951.



The drawing is lined for the color red. The word "Coal" is disclaimed. The pictorial illustration is fanciful.
For Coal.
Claims use since June 4, 1951.

Ser. No. 616,248. Seminole Coal Corporation, Chicago, Ill. Filed July 9, 1951.



The word "Coal" is disclaimed. The drawing is lined for red. The pictorial illustration is fanciful.
For Coal.
Claims use since June 5, 1951.

Ser. No. 616,253. Sunlight Coal Company, Chicago, Ill. Filed July 9, 1951.



The word "Coal" is disclaimed. The drawing is lined for red.
For Coal.
Claims use since June 4, 1951.

CLASS 2

RECEPTACLES

Ser. No. 529,891. The Guardite Corporation, Chicago, Ill., assignor to Guardite Corporation, Wilmington, Del., a corporation of Delaware. Filed July 29, 1947.

GUARDITE

Applicant claims ownership of Registration No. 333,996.
For Large Metal Tanks Adapted Primarily for Containing Organic Products To Be Treated or Tested.
Claims use since May 1939.

Ser. No. 567,525. The Lord Baltimore Press, Baltimore, Md. Filed Oct. 23, 1948.

LB COTE

The word "Cote" is disclaimed.
For Cartons Made of Boxboard and Cardboard.
Claims use since June 1, 1948.

Ser. No. 582,057. W. & J. Sloane, New York, N. Y. Filed July 15, 1949.



For Wood Baskets, Garment Bags, Shelf Boxes (of Padded and Fabric-Covered Plywood or Decorated Metal, for Storage of Articles of Clothing and the Like), Blanket Boxes, Hat Boxes, Hampers, Waste Baskets, Powder Boxes (of Porcelain, China and/or Decorated Metal, Sold Empty), and Pin Trays.
Claims use since Oct. 24, 1933.

Ser. No. 584,314. Bridgeport Moulded Products, Inc., Fairfield, Conn. Filed Sept. 1, 1949.

SPARKLE-WARE

The word "Ware" is disclaimed. Applicant claims ownership of Registrations Nos. 535,343 and 535,377.
For Drinking Glass Coasters Formed of Moulded Plastic Material.
Claims use since Aug. 17, 1949.

Ser. No. 587,135. The Visking Corporation, Chicago, Ill. Filed Nov. 1, 1949.



Applicant claims ownership of Registrations Nos. 278,352, 278,356, 310,467, 388,423, 425,530, 388,425, 388,424, 422,073, and 537,644.
For Tubings, Casings, and Bags Made of Plastic and Used as Containers.
Claims use since Dec. 15, 1948.

Ser. No. 588,180. Oaks & Barrow, Inc., Columbiana, Ohio, assignor to The Columbiana Boiler Company, Columbiana, Ohio, a corporation of Ohio. Filed Nov. 22, 1949.

BARROWELD

For Refillable Valved Metallic Tanks for Storage Purposes.
Claims use since Oct. 31, 1949.

Ser. No. 601,944. Plastic Film Products Corporation, Akron, Ohio. Filed Aug. 8, 1950.



For Plastic Film Receptacles—Namely, Hosiery Bags, Blanket Bags, Food Bags, Garment Bags, Suit Bags, Basket Liners, Utility Draw-String Bags, and Flat Bags Having Slide Fasteners Across One End for Containing Face Cloths.
Claims use since May 1, 1950.

Ser. No. 601,945. Plastic Film Products Corporation, Akron, Ohio. Filed Aug. 8, 1950.

FRATEX

For Plastic Film Receptacles—Namely, Hosiery Bags, Blanket Bags, Food Bags, Garment Bags, Suit Bags, Basket Liners, Utility Draw-String Bags, and Flat Bags Having Slide Fasteners Across One End for Containing Face Cloths.
Claims use since November 1, 1947.

Ser. No. 601,946. Plastic Film Products Corporation, Akron, Ohio. Filed Aug. 8, 1950.

fratex fashions

For Plastic Film Receptacles—Namely, Hosiery Bags, Blanket Bags, Food Bags, Garment Bags, Suit Bags, Basket Liners, Utility Draw-String Bags, and Flat Bags Having Slide Fasteners Across One End for Containing Face Cloths.
Claims use since Apr. 5, 1950.

Ser. No. 605,265. Pullman-Standard Car Manufacturing Company, Chicago, Ill. Filed Oct. 21, 1950. (Sec. 2f as to "Pullman-Standard.")

PULLMAN-STANDARD CAR MANUFACTURING CO

The words "Built by" and "Car Manufacturing Co." are disclaimed. Applicant claims ownership of Registration No. 243,990.
For Water Storage Tanks and Housings Therefor, Boxes for Holding Batteries, and Boxes for Holding Compressors.
Claims use since Oct. 8, 1946, as shown; and since Dec. 26, 1934, as to "Pullman-Standard."

Ser. No. 606,565. Penn Bag & Burlap Company, Pittsburgh, Pa. Filed Nov. 17, 1950.

STERI-BAG

The word "Bag" and the representation of the bag are disclaimed.
For Burlap and Cotton Grain and Feed Storage Bags.
Claims use since May 1, 1950.

Ser. No. 606,614. Maxwell D. King, doing business as Liftainer Company, Toledo, Ohio. Filed Nov. 18, 1950.

LIFTAINER

For Shipping Containers Formed of Cardboard, Fiberboard, or Corrugated Paper.
Claims use since May 15, 1950.

Ser. No. 614,394. Alexander-Wilson Co., Pasadena, Calif. Filed May 26, 1951.

HI-SNACK

The word "Snack" is disclaimed.
For Combination Coaster and Snack Plates of Plastic Material.
Claims use since Apr. 6, 1951.

Ser. No. 616,238. National Products Co., Kansas City, Mo. Filed July 9, 1951.

ACRYLITE WARE

The word "Ware" is disclaimed.
For Plastic Dinnerware—Namely, Cups, Saucers, Bowls, Plates, Platters, and Other Such Dishes.
Claims use since Feb. 26, 1951.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 611,908. Annie Oakley Enterprises, Los Angeles, Calif. Filed Mar. 28, 1951.

ANNIE OAKLEY

The words "Annie Oakley" were the pseudonym of the famous sharp-shooter, Phoebe Mozee, now deceased.
For Shoulder Strap Bags.
Claims use since Mar. 6, 1951.

Ser. No. 616,329. The National Plastic Products Company, Odenton, Md. Filed July 11, 1951.



The word "Color" is disclaimed.
For Thermoplastic Injection Molded Luggage Fittings.
Claims use since August 1947.

Ser. No. 616,360. Bernard Cahn Co., Inc., New York, N. Y. Filed July 12, 1951.

CAROUSEL

For Wallets, Purses, and Handbags.
Claims use since Jan. 22, 1951.

Ser. No. 616,361. Bernard Cahn Co., Inc., New York, N. Y. Filed July 12, 1951.

DATE METER

For Wallets and Purses.
Claims use since Feb. 5, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 588,733. Bausch & Lomb Optical Company, Rochester, N. Y. Filed Dec. 3, 1949.

B&L

For Lens Grinding and Polishing Abrasive Compounds.
Claims use since Oct. 3, 1949.

Ser. No. 600,494. Liquid Glass Corporation, New York, N. Y. Filed July 11, 1950.

MIRREX 5

For Automobile Polish Containing Silicone.
Claims use since Apr. 15, 1950.

Ser. No. 605,998. The Danbury Rubber Company, Inc., Danbury, Conn. Filed Nov. 7, 1950. (Sec. 2f as to "Danbury.")

DANBURY

Applicant claims ownership of Registration No. 430,550.
For Waxes for Polishing Floor, Wall, Table, and Shelf Coverings.
Claims use since spring 1928 as to "Danbury"; and since January of 1947 as to the composite mark.

Ser. No. 608,906. Advance Polishing Wheels, Inc., Chicago, Ill. Filed Jan. 18, 1951.

ADVANCE

Applicant claims ownership of Registration No. 277,070.
For Buffs and Buffing Wheels.
Claims use since 1946.

Ser. No. 615,166. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed June 14, 1951.

SEVEN-ITE

For Polish for Use on Automobiles, and on Furniture, Floors, and Other Household Articles.
Claims use since May 4, 1951.

Ser. No. 615,677. Black Panther Tool Company, Philadelphia, Pa. Filed June 26, 1951.

Black Panther

For Blocks With Abrasive Surface for Sanding.
Claims use since Jan. 29, 1951.

CLASS 5

ADHESIVES

Ser. No. 614,754. Coro, Inc., New York, N. Y. Filed June 5, 1951.

Glamor MAGIC

For Glue for Jewelry.
Claims use since April 1951.

Ser. No. 614,775. Hubbs Corporation, Baltimore, Md. Filed June 5, 1951.



For Gummed Tape, Cellulose Tape, Paste, and Glue.
Claims use since May 1906.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 588,764. Dudley L. Mason, doing business as Mason Products Company, Cincinnati, Ohio. Filed Dec. 3, 1949.

Sani-Aire

The designation "Aire" is disclaimed.
For Refrigerator Deodorant in Block Form.
Claims use since Sept. 1, 1949.

Ser. No. 593,855. Artistic Beauty Products Company, Los Angeles, Calif. Filed Mar. 13, 1950.

NEUTRATEST

For Impregnated Pads for Testing for the Presence of Cold-Waving Solution in Cold-Waving Treatments.
Claims use since Feb. 7, 1950.

Ser. No. 594,680. Althouse Chemical Company, Inc., Reading, Pa. Filed Mar. 27, 1950. (Sec. 2f.)

SUPERLITEFAST

Applicant claims ownership of Registration No. 389,133.
For Dyes and Dyestuffs.
Claims use since Oct. 19, 1939.

Ser. No. 594,831. Clinton Foods Inc., Clinton, Iowa. Filed Mar. 29, 1950.

CLINCOR

For Starch for Preparation of Adhesives for Use in Corrugated Paper Board Manufacture.
Claims use since Jan. 5, 1950.

Ser. No. 596,332. William A. Cunningham, doing business as The Pentaplastic Company, Allentown, Pa. Filed Apr. 26, 1950.

PENTAPLASTIC

For Viscous Composition Used in Preserving and Extending the Useful Life of Wooden Poles, Cut Timber, and the Like.
Claims use since Mar. 29, 1950.

Ser. No. 597,693. Nova Chemical Corporation, New York, N. Y. Filed May 18, 1950.

NOVANTHRENE

For Dyes.
Claims use since May 5, 1950.

Ser. No. 600,451. S. A. Seline, doing business under the trade name of Seaver Company, Omaha, Nebr. Filed July 10, 1950.

Repel-a-Rat

The word "Rat" is disclaimed.
For Rat Repellent.
Claims use since May 19, 1950.

Ser. No. 602,817. Alkydol Laboratories, Inc., Cicero, Ill. Filed Aug. 28, 1950.

ALK-O-FLEX

For Plasticizers for General Industrial Use, But Particularly for Polyvinyl Copolymers.
Claims use since Aug. 10, 1950.

Ser. No. 603,193. The Janalyn Laboratories, Inc., Worcester, Mass. Filed Sept. 6, 1950.

Airily

For Deodorant and Air Freshener.
Claims use since Jan. 15, 1950.

Ser. No. 612,840. E. Roy Whitaker, doing business as C & W Insecticide Co., Monroe, La. Filed Apr. 18, 1951.

Atomic Dust

The word "Dust" is disclaimed.
For Ant and Roach Powder.
Claims use since Apr. 12, 1951.

Ser. No. 614,329. American Cyanamid Company, New York, N. Y. Filed May 25, 1951.

PYROSET

Applicant claims ownership of Registration No. 437,776.
For Fire Retardants.
Claims use since Apr. 9, 1947.

Ser. No. 615,865. United States Rubber Company, New York, N. Y. Filed June 28, 1951.

CELOGEN

For Chemical Blowing Agent for Rubber.
Claims use since June 1951.

Ser. No. 615,991. National Foam System, Inc., West Chester, Pa. Filed July 2, 1951.

AER-O-FOAM "99"

The drawing is lined for red. The word "Foam" is disclaimed. Applicant claims ownership of Registrations Nos. 396,949 and 399,808.
For Fire-Extinguishing Chemicals and Compositions.
Claims use since Mar. 30, 1951.

Ser. No. 615,993. Patek and Co., San Francisco, Calif. Filed July 2, 1951.

VERVE

For Preparation for Increasing Penetration and Detergency Action in Wet-Cleaning and Laundering.
Claims use since May 11, 1950.

Ser. No. 616,117. Onyx Oil & Chemical Company, Jersey City, N. J. Filed July 5, 1951.

TIPAGON

For Chemical Substance Used in Improving the Level Dyeing of Wool.
Claims use since June 1, 1951.

Ser. No. 616,143. Standard Electric Co., Inc., San Antonio, Tex. Filed July 5, 1951.

DURA-LEAD

The word "Lead" is disclaimed.
For Oxide of Lead.
Claims use since May 15, 1951.

Ser. No. 616,298. Neilson Chemical Company, Detroit, Mich. Filed July 10, 1951.

LYFANITE

For Chemicals for Use in Treating Metal Surfaces To Render Them Corrosion Resistant.
Claims use since Mar. 7, 1949.

Ser. No. 616,758. C R I Corporation, New York, N. Y. Filed July 21, 1951.

C.R.I.

The word "Germicide" is disclaimed.
For Rust-Inhibiting Germicide.
Claims use since May 10, 1951.

Ser. No. 617,132. Van Waters & Rogers, Inc., Seattle, Wash. Filed July 30, 1951. (Sec. 2f.)

ROVAN

The drawing is lined to indicate red.
For Chemicals To Be Used in Agricultural Dusting.
Claims use since Mar. 1, 1940.

CLASS 7

CORDAGE

Ser. No. 613,051. The Dayton Rubber Company, Dayton, Ohio. Filed Apr. 24, 1951.

ELECTRONI-CORD

The word "Cord" is disclaimed.
For Cord for Vehicle Tires.
Claims use since Feb. 15, 1951.

Ser. No. 615,432. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Filed June 20, 1951.

ACME

For Rope and Lines Manufactured From Vegetable Fiber.
Claims use since Jan. 1, 1905.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 608,929. Evans Case Co., North Attleboro, Mass. Filed Jan. 18, 1951.

LOOK FOR THE RED SEAL



The representation of the portion of the goods is disclaimed. The drawing is lined for the color red.
For Cigarette Lighters.
Claims use since May 1949.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 599,774. Olin Industries, Inc., East Alton, Ill. Filed June 26, 1950.

SEISMO CAP

The word "Cap" is disclaimed. The drawing is lined for the colors red and blue.
For Electric Blasting Caps.
Claims use since Mar. 6, 1947.

Ser. No. 615,775. Hercules Powder Company, Wilmington, Del. Filed June 27, 1951.

TITAN

Applicant claims ownership of Registration No. 312,424.
For Detonating Primers, Specifically Blasting Caps and Electric Blasting Caps.
Claims use since May 21, 1951.

CLASS 10

FERTILIZERS

Ser. No. 609,429. Atkins & Durbrow, Inc., New York, N.Y. Filed Jan. 31, 1951.

FERT-L-ETTS

For Plantfood in Tablet Form Containing Nitrogen, Phosphoric Acid, and Potash With Various Trace Elements.
Claims use since Dec. 13, 1950.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 587,592. Permanente Cement Company, Oakland, Calif. Filed Sept. 16, 1949. (Sec. 2f.)

PLASTI-SPRED

For Plastering Cement.
Claims use since Aug. 4, 1937.

Ser. No. 602,394. Georgia-Pacific Plywood & Lumber Co., Augusta, Ga. Filed Aug. 18, 1950.

GP

PLYSHEET

The word "Plysheet" is disclaimed.
For Plywood Made From Southern Hardwood or Yellow Pine Used Principally for Sheathing and Unexposed Surfaces.
Claims use since Mar. 17, 1950.

Ser. No. 606,147. E. J. Lavino and Company, Philadelphia, Pa. Filed Nov. 9, 1950.

DRIKROME

For Dry Refractory Cement.
Claims use since 1932.

Ser. No. 610,756. Northern Spruce Co. Ltd., Vancouver, British Columbia, Canada. Filed Mar. 2, 1951.

NOSCO

Applicant claims ownership of Canadian Registration No. 118 NS 30,475, dated Mar. 13, 1948.
For Rough and Dressed Sawn Lumber.
Claims use since May 11, 1949, in commerce between foreign nations and the United States.

Ser. No. 614,262. Plastile Products, Inc., Chicago, Ill. Filed May 23, 1951.

TILECREST

For Plastic Tile.
Claims use since Mar. 27, 1951.

Ser. No. 614,687. The Cement Marketing Company, Limited, London, England. Filed June 4, 1951.

BLUE CIRCLE

Applicant claims ownership of British Registration No. 489,603, dated Mar. 17, 1928.
For Portland Cement.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 587,974. S & S Industries, Inc., New York, N. Y. Filed Nov. 17, 1949.

HANG-IT-ALL

Applicant claims ownership of Registration No. 552,163.
For Spring Clamps for Supporting Tools and Utensils.
Claims use since Nov. 15, 1949.

Ser. No. 604,843. The Enterprise Aluminum Company, Massillon, Ohio. Filed Oct. 13, 1950.

CHAMPION CRAFT

For Aluminum Cook-Ware and Gift-Ware—Namely, Large Pot and Cover for Roasting Meats and for Preserving and Canning; Combination Dutch Oven and Complete Meal Cooker; Chicken Fryers; Covered Sauce Pan With Cover for the Waterless Method of Cooking; Three-Quart Lock Lid Sauce Pan.
Claims use since Sept. 5, 1950.

Ser. No. 613,660. Wood Conversion Company, St. Paul, Minn. Filed May 8, 1951.

NU-WOOD

Applicant claims ownership of Registration No. 195,987.
For Metal Clips To Mount Tile, Plank, and Panel Forms of Interior Decorative Fibrous Insulation Board in Walls and Ceilings.
Claims use since Feb. 6, 1940.

CLASS 15

OILS AND GREASES

Ser. No. 614,078. Autoline Oil Company, Baltimore, Md. Filed May 19, 1951. (Sec. 2f.)

PENNPURE

Applicant claims ownership of Registration No. 289,757.
For Lubricating Oils.
Claims use since Nov. 20, 1926.

Ser. No. 616,420. Ray T. Fatout, doing business as Controlled Oil Products Co., Indianapolis, Ind. Filed July 13, 1951.

Copco

For Lubricating Oils Including Top Cylinder Oil and Top Oilers.
Claims use since Feb. 21, 1950.

Ser. No. 616,526. The Texas Company, Dover, Del., and New York, N. Y. Filed July 14, 1951.

CRATER

Applicant claims ownership of Registration No. 84,432.
For Lubricating Greases.
Claims use since Jan. 1, 1912.

Ser. No. 616,527. The Texas Company, Dover, Del., and New York, N. Y. Filed July 14, 1951.

MARFAK

Applicant claims ownership of Registration No. 84,285.
For Lubricating Greases.
Claims use since Apr. 1, 1924.

Ser. No. 616,528. The Texas Company, Dover, Del., and New York, N. Y. Filed July 14, 1951.

MEROPA

Applicant claims ownership of Registration No. 412,414.
For Lubricating Greases.
Claims use since Jan. 1, 1940.

Ser. No. 616,529. The Texas Company, Dover, Del., and New York, N. Y. Filed July 14, 1951.

OLYMPIAN

Applicant claims ownership of Registration No. 88,712.
For Lubricating Greases.
Claims use since July 1, 1936.

Ser. No. 616,530. The Texas Company, Dover, Del., and New York, N. Y. Filed July 14, 1951.

REGAL

Applicant claims ownership of Registration No. 88,032.
For Lubricating Greases.
Claims use since Mar. 1, 1943.

Ser. No. 616,531. The Texas Company, Dover, Del., and New York, N. Y. Filed July 14, 1951.

THUBAN

Applicant claims ownership of Registration No. 84,437.
For Lubricating Greases.
Claims use since Jan. 1, 1913.

Ser. No. 616,532. The Texas Company, Dover, Del., and New York, N. Y. Filed July 14, 1951.

VEGA

Applicant claims ownership of Registration No. 84,056.
For Lubricating Greases.
Claims use since Jan. 1, 1912.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 587,328. Edward F. Hartman, doing business under the name of The Edw. F. Hartman Co., Chicago, Ill. Filed Nov. 4, 1949.

MIN-ET

For Medicated Dressing and Medicated Antiseptic Eye Wash for Animal Pets.
Claims use since August 1947.

Ser. No. 598,497. Parke, Davis & Company, Detroit, Mich. Filed June 2, 1950.

GERIPLEX

For Vitamin Preparation.
Claims use since May 22, 1950.

Ser. No. 600,820. Corn States Veterinary Supply Company, Omaha, Nebr. Filed July 18, 1950.

AKCELLO

For Animal Protein Factor and Vitamin Supplement for Swine.
Claims use since June 13, 1950.

Ser. No. 602,055. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Aug. 10, 1950. (Sec. 2f.)

HEMATINIC OVALS (ULMER)

In the drawing the fact that the trade-mark is always imprinted in white on a red background is indicated by the conventionl lining for red. Applicant claims ownership of Registration No. 306,646.
For Medical Preparation—Namely, Capsules of Liver, Iron, and B-Complex for Treatment of Secondary Anemias.
Claims use since Nov. 24, 1942.

Ser. No. 602,056. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Aug. 10, 1950 (Sec. 2f.)

HEMATINIC PLAIN (ULMER)

The drawing is lined for the color red. The words "Hematinic" and "Plain" are disclaimed. Applicant claims ownership of Registration No. 306,646.
For Medical Preparation—Namely, Capsules of Ferrous Sulfate, B-Complex, and Yeast Concentrate for Treatment of Hypochromic Anemia.
Claims use since Nov. 24, 1942.

Ser. No. 611,970. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Mar. 29, 1951.

ULBYLO

The drawing is lined for red.
For Medicinal Preparation—Namely, an Antiseptic and Emollient Baby Lotion for Care of Babies.
Claims use since Dec. 5, 1950.

Ser. No. 615,767. Elbon Laboratories, Inc., Sparta, N. J. Filed June 27, 1951.

KATRINYL

For Laxatives.
Claims use since June 11, 1951.

Ser. No. 615,850. S. Pfeiffer Manufacturing Co., doing business as Empire Pharmacal Co., St. Louis, Mo. Filed June 28, 1951. (Sec. 2f.)

DAY'S

For Medicaments—Namely, Antacid in Powder Form, Cold Capsules, Cold Tablets, Compound in Liquid Form To Be Taken Internally for the Relief of Minor Muscular Aches and Pains, Cough Syrup, Cream Dressing for Oak and Ivy Poison and Minor Skin Irritations, Diuretic in Liquid and Pill Form, Liver Pills, Ointment for Relief of Skin Irritations Associated With Eczema, Rectal Ointment, Sedative for Simple Nervousness and Stomachic and Iron Tonic.
Claims use since 1930.

Ser. No. 616,123. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Filed July 5, 1951.

TERRACON

For Antibiotic Preparation for Veterinary Use.
Claims use since May 14, 1951.

Ser. No. 616,140. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed July 5, 1951.

PLEOCIDIN

For Antibiotic Preparation.
Claims use since Apr. 3, 1951.

Ser. No. 616,141. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed July 5, 1951.

'TESTODET'

Applicant claims ownership of Registration No. 529,586.
For Hormone Preparation.
Claims use since Dec. 19, 1950.

Ser. No. 616,286. General Aniline & Film Corporation, New York, N. Y. Filed July 10, 1951.

PLASDONE

For Chemical Compounds, Compositions, and Preparations, Particularly for Use as Blood Plasma Substitutes or Extenders, and for Use as Extenders, Diluents, Adjuvants, Protective Colloids, or Aqueous Suspension Media in Therapeutic Agents and Compositions in the Form of Solutions, Powders, Tablets, Capsules and the Like for Topical, Oral, and Parenteral or Other Internal Use.
Claims use since June 8, 1951.

Ser. No. 616,423. General Vitamin Corporation, Washington, D. C. Filed July 13, 1951.

GERI-DAY

For Vitamin Capsules To Be Used as a Dietary Supplement.
Claims use since June 11, 1951.

Ser. No. 616,424. General Vitamin Corporation, Washington, D. C. Filed July 13, 1951.

VICEL

For Vitamin Tablets for Correction of Constipation.
Claims use since June 11, 1951.

Ser. No. 616,452. Schering Corporation, Bloomfield, N. J. Filed July 13, 1951.

DEXTROMYCIN

For Antibiotic.
Claims use since May 1, 1951.

Ser. No. 616,453. Schering Corporation, Bloomfield, N. J. Filed July 13, 1951.

SCHERITONE

For Hormone Preparation.
Claims use since Apr. 17, 1951.

Ser. No. 616,571. Judson D. Ryon, doing business under the name and style of Daland Vitamin Co., Wilmington, Del. Filed July 16, 1951.

VAMS

For Vitamin Preparation.
Claims use since Apr. 8, 1951.

Ser. No. 619,421. Table Rock Laboratories, Inc., Greenville, S. C. Filed July 25, 1951.

CITHAL

Applicant claims ownership of Registration No. 361,751.
For Preparation in Capsule Form for the Treatment of Hypertension, Arteriosclerosis, Angina Pectoris, and Other Vasomotor Disturbances.
Claims use since Sept. 1, 1937.

CLASS 19

VEHICLES

Ser. No. 597,734. Brodsky Bros., Providence, R. I. Filed May 19, 1950.



For Baby Carriages and Strollers, and Combination Baby Stroller-Walkers.
Claims use since Apr. 1, 1940.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 615,579. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Filed June 22, 1951.

CANASTA

The lining shown on the drawing forms a part of the design.
For Resilient Enamel Surface Floor Covering of the Nature of Linoleum.
Claims use since May 17, 1951.

Ser. No. 616,514. Sloane-Blabon Corporation, Trenton, N. J., and Philadelphia, Pa. Filed July 14, 1951.

CRYSTALTEX

Applicant claims ownership of Registration No. 537,886.
For Hard Surface Floor Covering of the Nature of Linoleum.
Claims use since June 12, 1951.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 590,641. Audio Devices, Inc., New York, N. Y. Filed Jan. 11, 1950.

it speaks for itself

Applicant claims ownership of Registration No. 389,872.
For Magnetic Sound Recording Tape.
Claims use since May 6, 1947.

Ser. No. 598,853. Indiana Steel & Wire Company, Muncie, Ind. Filed June 9, 1950. (Sec. 2f as to "Crapo.")



The drawing is lined for blue. Applicant claims ownership of Registrations Nos. 266,713, 337,146, 337,147, and others.
For Iron and Steel Wire for Use in Overhead Electric Transmission Lines.
Claims use since Apr. 28, 1950, as to the mark shown; and since June 14, 1929, as to "Crapo."

Ser. No. 616,612. Trico Fuse Mfg. Co., Milwaukee, Wis. Filed July 17, 1951. (Sec. 2f.)

KLIPLOK

Applicant claims ownership of Registration No. 281,251.
For Fuse Plugs.
Claims use since June 15, 1929.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 571,834. Frederick J. Adams, doing business as Adams Welding Service, Philadelphia, Pa. Filed Jan. 8, 1949.

THE CHUMASTER

The word "Chum" is disclaimed.
For Combination Chum Pot, Minnow Trap, and Minnow Bucket.
Claims use since March 1947.

Ser. No. 586,539. McLean Mfg. Co., Inc., Sussex, N. J. Filed Oct. 19, 1949.



The word portion consists of the words "Strato-Vst."
For Sleeveless Jackets Embodying Inflatable Portions and Functioning as Life-Preservers.
Claims use since Sept. 10, 1949.

Ser. No. 614,802. A&H Doll Manufacturing Corp., Woodside, N. Y. Filed June 6, 1951.

A MARCIE
READ *and* PLAY
CREATION

The words "Read and Play" and "Creation" are disclaimed. Applicant claims ownership of Registration No. 521,415.
For Dolls Sold in Unit Combination With Printed Circulars Which Stress Interest in or the Nature of the Particular Doll Sold.
Claims use since June 1, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 570,534. Automatic Industries, Inc., Kansas City, Mo. Filed Dec. 15, 1948.

ROTO-RAKE

The word "Rake" is disclaimed.
For Hay Rakes.
Claims use since Aug. 20, 1948.

Ser. No. 572,731. Downingtown Manufacturing Company, Downingtown, Pa. Filed Jan. 25, 1949.



For Paper Making Machinery—Namely, Refiners of Paper Stock Fibers, Beaters for the Breaking Up of Bundles of Paper Stock Fibers, Paper Machines of Fourdrinier and Cylinder Types and Parts Thereof, Paper Cutters, Paper Winders, Pulpers for Reducing Waste Paper to Pulp, Calenders, Paper Reels, Wallboard Making Machines and Parts Thereof, Each Such Machine Being Power Driven by Suitable Means Such as an Electric Motor or a Steam Turbine.
Claims use since July 1, 1935.

Ser. No. 581,633. American Car and Foundry Company, New York, N. Y. Filed July 8, 1949.

a.c.f.

Applicant claims ownership of Registration No. 371,411.
For Locomotives and Structural Parts Thereof.
Claims use since June 16, 1935.

Ser. No. 605,156. General Motors Corporation, Detroit, Mich. Filed Oct. 19, 1950.



The representation of the goods is disclaimed.
For Antifriction Bearings and Parts Thereof.
Claims use since October 1937.

Ser. No. 605,563. Storm-Vulcan, Inc., Dallas, Tex. Filed Oct. 28, 1950.

KOTAFIN

For Crankshaft Finishing Machines and Parts Thereof.
Claims use since June 1, 1950.

Ser. No. 607,131. Link-Belt Company, Chicago, Ill. Filed Nov. 30, 1950. (Sec. 2f as to "Multi-Louvre.")

LINK-BELT
MULTI-LOUVRE

The term "The Symbol of Quality" is disclaimed. Applicant claims ownership of Registrations Nos. 420,713 and 431,515.
For Encased Traveling Pan Conveyor Type Dryers and Coolers for Handling Flowable Solids.
Claims use since Oct. 24, 1945.

Ser. No. 607,132. Link-Belt Company, Chicago, Ill. Filed Nov. 30, 1950. (Sec. 2f.)

MULTI-LOUVRE

Applicant claims ownership of Registrations Nos. 420,713 and 431,515.
For Encased Traveling Pan Conveyor Type Dryers and Coolers for Handling Flowable Solids.
Claims use since Oct. 24, 1945.

Ser. No. 610,927. Shellmold & Machine Co., Inc., New York, N. Y. Filed Mar. 6, 1951.



For Machines for Forming Refractory Molds for the Casting of Metals.
Claims use since Jan. 29, 1951.

Ser. No. 611,822. West Disinfecting Company, Long Island City, N. Y. Filed Mar. 26, 1951.

LIQUICREME

For Dispensers for Vending Soap, Cream, and Cosmetics.
Claims use since Mar. 1, 1950.

Ser. No. 614,349. Institutional Products Corporation, New York, N. Y. Filed May 25, 1951.



For Razor Blades.
Claims use since July 1, 1950.

Ser. No. 617,444. Melvin H. Jacobs, Chicago, Ill. Filed Aug. 8, 1951.

CITATION

For Steak Knives.
Claims use since July 24, 1951.

Ser. No. 617,476. American Brake Shoe Company, New York, N. Y. Filed Aug. 9, 1951.

AMSCO

For Buckets and Parts Therefor—Namely, Clam-Shell Type, Ditcher, Hoe, Ladder-Type Dredge, Orange-Peel Type, Conveyor, Elevator and Loader Types; Power Shovel Dippers and Parts Therefor; Stone Grapples; Centrifugal Suction Pumps and Parts Therefor; Slushing Scrapers, and Dredge Tumblers.

Apron Feeder Parts—Namely, Pans, Links, Pins, Sprockets, Idlers, Rollers; Grate Bars; Grizzly Bars; Bearing Bushings; Bearings; Bed-Plates for Paper Stock Beaters; Blades for Ballast Spreaders, Bull-Dozers and Road Graders; Cams; Catheads; Conveyor and Power-Transmission Chains and Links, Pins, and Attachments Therefore; Chutes and Parts Therefor; Driving Clutches; Crusher Concaves, Jaws and Mantles; Hoisting and Winding Drums; Conveyor Flights; Gears and Pinions for Machinery; Tractor Grousers; Conveyor Gudgeons; Wire-Rope Guides; Pulverizer Hammers and Rings; Tamping Roller Heads; Liners for Crushers, Grinding Mills, Mixers, Pulverizers, Pumps and Tumbling Barrels; Log-Dogs; Log Turners; Paddles for Log Washers, Mixers and Sintering Machines; Conveyor Pans; Screening Machinery Plates and Machine Wearing Plates; Rollers—Namely, Bucket-Ladder, Conveyor, Incline, Kiln, Mooring-Chock, Towline and Tractor Types; Rolls—Namely, Anvil, Briquette, Crusher, Forging and Grinding Types; Roll-Crusher Shells; Screws for Spiral Conveyors; Shoes for Snow-Plows and Sweepers; Teeth for Buckets, Crusher Rolls, Clinker Grinders, Rippers and Scarifiers; Teeth Repointers; Stamp Mill Parts—Namely, Dies, Shoes, Tappets; Wheels for Conveyors, Bridge and Mono-Rail Type Cranes, Sawmill Carriages, and Aerial Tramways; and Crown, Gear, Idler, Kicker, Pinion, Sheave, Sprocket, Traction and Trolley Wheels for Machinery; Treads for Tractor and Power-Shovel Crawlers; Precipitation Baffles; and Bearing Rings and Rollers.
Claims use since October 1915.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 614,897. Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Filed June 7, 1951. (Sec. 2f.)

Plymouth

Applicant claims ownership of Registrations Nos. 385,432, 391,019, and 540,070.
For Laundry Washing Machines.
Claims use since April 1937.

Ser. No. 620,230. Pittsburgh Waterproof Company, Pittsburgh, Pa. Filed Oct. 19, 1951. (Sec. 2f.)

"MARVEL"
ONCE-AROUND

For Laundry Ironer Pads.
Claims use since 1926.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 607,761. Paragon Electric Company, Two Rivers, Wis. Filed Dec. 16, 1950.

CHRONO - SPRAY DE-FROST-IT

The words "Spray" and "De-Frost" are disclaimed.
For Synchronous Electric Motor Operated Time Control Switch To Regulate the Flow of Current to Various Electric Appliances.
Claims use since August 1948.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 596,272. Fabrique d'Ebauches Etа S. A., Granges, Switzerland. Filed Apr. 25, 1950.

ETAROTOR

Priority under Sec. 44(d). Swiss Registration No. 132,012, dated Jan. 17, 1950. Applicant claims ownership of Swiss Registration No. 132,012, dated Jan. 17, 1950, and United States Registration No. 369,623.
For Watches and Parts of Watches.

Ser. No. 612,222. S. Smith and Sons (England) Limited, London, England. Filed Apr. 4, 1951. (Sec. 2f.)

SMITHS

Applicant claims ownership of British Registration No. 638,831, dated July 24, 1945.
For Watches, Clocks, Watch and Clock Movements, and Parts of Watches and Clocks.
Claims use since January 1932; and use in commerce between Great Britain and the United States since January 1932.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 598,968. Swank, Inc., Attleboro, Mass. Filed June 12, 1950.

ULTRA-GRAM

For Tie Holders and Key Chains Which Are Made in Whole of, in Part of, or Plated With Precious Metal.
Claims use since Aug. 26, 1946.

Ser. No. 611,480. Levy-Anderson Co., Inc., Providence, R. I. Filed Mar. 17, 1951.

Baby-Mine

The word "Baby" is disclaimed.
For Jewelry for Personal Wear or Adornment for Babies—Namely, Lockets, Bracelets; and the Following Items Made in Whole of, in Part of, or Plated With Precious Metal—Namely, Identification Tags and Religious Crosses.
Claims use since January 1950.

Ser. No. 612,858. Goldstein-Gerson Co., New York, N. Y. Filed Apr. 19, 1951.

Enhanset

For Ring Mountings.
Claims use since Jan. 10, 1951.

Ser. No. 613,630. Curtis Jewelry Manufacturing Company, Inc., Providence, R. I. Filed May 8, 1951.



The mark comprises the letters "d, e, c" intertwined with leaves.
For Jewelry Clasps, Bracelets, Lockets, Necklaces, Pendants, Brooches, Jewelry Pins, Neck Chains, and Earrings.
Claims use since Dec. 28, 1950.

Ser. No. 613,923. Sara H. Lashley, Atlantic City, N. J. Filed May 16, 1951.

Wi-Di-let

For Finger Rings.
Claims use since May 2, 1951.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 610,053. Federated Department Stores, Inc., Cincinnati, Ohio., doing business under the name Abraham & Straus, Brooklyn, N. Y. Filed Feb. 14, 1951. (Sec. 2f.)

SERV-8-SET

Applicant claims ownership of Registration No. 288,525.
For China Dinner Sets.
Claims use since July 20, 1930.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 583,828. Tyler Fixture Corporation, Niles, Mich. Filed Aug. 22, 1949. (Sec. 2f—Additional evidence.)



The words "Flood-Light" are disclaimed. The lining of the drawing does not indicate color. Applicant claims ownership of Registration No. 510,184.
For Refrigerated Display Cases.
Claims use since 1939.

Ser. No. 598,859. Thomas S. Lasky, Kingston, Pa. Filed June 9, 1950.

LIFE-KLEEN

The word "Kleen" is disclaimed.
For Oil Filters for Use in Filtering Oil in Internal Combustion Engines, Oil Filter Cartridges.
Claims use since Oct. 1, 1949.

Ser. No. 615,836. Hotpoint Inc., Chicago, Ill. Filed June 28, 1951.

Thriftmaster

For Electric Refrigerating Units for Use in Domestic Refrigerators and Freezers.
Claims use since May 1, 1951.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 562,268. The Chas. A. Maish Co., Cincinnati, Ohio. Filed July 27, 1948.

Baby Form

The term "Baby" is disclaimed.
For Crib Mattresses.
Claims use since Mar. 12, 1948.

Ser. No. 564,346. Paris Decorators Corp., New York, N. Y. Filed Aug. 28, 1948. (Sec. 2f.)

Paris

For Sofas, Love Seats, Ottomans, Occasional Chairs, Bedroom Chairs, Chaise Lounges, Poufs, Mattresses, Box Springs, Upholstered Bed Boards, Credenzas, Bookcases, Breakfronts, Desks, Bridge Sets (Consisting of Tables and Chairs), Hanging Shelves, Picture Frames, Book Ends, Ornamental Wall Plaques and Brackets, Home Bars, Pedestal Stands, Dressing Table Mirrors, Hand Mirrors, Wall Mirrors, Console and Mirror Sets, Slip Covers, Upholstered Benches, China Cabinets, Racks for De Luxe Plates and Living Room Tables.
Claims use since Nov. 13, 1926.

Ser. No. 600,020. Burton-Dixie Corporation, Chicago, Ill. Filed June 30, 1950.

Embassy

For Mattresses and Box Springs.
Claims use since Mar. 6, 1945.

Ser. No. 604,035. A. J. Redlich Company, Pittsburgh, Pa. Filed Sept. 26, 1950.

Sealtest®

For Tables, and Table Tops.
Claims use since July 27, 1950.

Ser. No. 608,791. Fixtures Manufacturing Corp., Kansas City, Mo. Filed Jan. 15, 1951.



The drawing is fanciful.
For Infants' and Children's Chairs.
Claims use since Nov. 27, 1950.

Ser. No. 614,540. Craftique, Inc., Mebane, N. C. Filed May 31, 1951.

Craftique

For Furniture—To Wit, Dining Room Furniture Consisting of Chairs, Tables, Sideboards, Cupboards, Chests, Serving Tables, Drop Leaf Tables, China Cupboards, Corner Cupboards; and Living Room Furniture—To Wit, Coffee Tables, Coffee End Tables, Pembroke Tables, Occasional Tables and Desks.
Claims use since November 1945.

Ser. No. 615,488. Domore Chair Company, Inc., Elkhart, Ind. Filed June 21, 1951.

DO/MORE

Applicant claims ownership of Registrations Nos. 179,678 and 264,882.
For Office, Household, and Factory Chairs.
Claims use since May 31, 1951.

Ser. No. 617,005. All-Steel Equipment Inc., Aurora, Ill. Filed July 27, 1951.

DROPFOLD

For Disappearing Typewriter Platforms.
Claims use since June 13, 1951.

CLASS 33

GLASSWARE

Ser. No. 559,582. Crysta Line Mfg. Co., Woodside, N. Y. Filed June 18, 1948. (Sec. 2f.)



The representation of the goods is disclaimed.
For Crystals for Watches, Clocks, and the Like.
Claims use since 1926.

Ser. No. 568,167. Armstrong Cork Company, Lancaster, Pa. Filed Nov. 4, 1948. (Sec. 2f.)

LABEL RITE

For Glass Dropper Bottles.
Claims use since June 27, 1935.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 564,966. S. F. Appliances, Limited, Ridgefield, N. J. Filed Sept. 10, 1948.



For Lanterns, Lamps, Cooking and Heating Stoves, Ovens, Camp Stoves, Adapted To Be Operated by Gasolene, Kerosene, or Oil Fuel, Lantern Globes, Lamp Shades, and Incandescent Mantles.
Claims use since Jan. 1, 1920.

Ser. No. 575,283. The National Radiator Company, Johnstown, Pa. Filed Mar. 11, 1949. (Sec. 2f—Additional evidence.)

HEAT EXTRACTOR

For Coal Fired, Oil Fired and Gas Fired Boilers.
Claims use since March 1940.

Ser. No. 575,318. American Gas Furnace Co., Elizabeth, N. J. Filed Mar. 12, 1949. (Sec. 2f as to "American-Pioneers 1878."



The words "Gas Furnace Co." are disclaimed. Applicant claims ownership of Registration No. 275,018.
For Metallurgical and Heat Treating Equipment Consisting of Gas Furnaces, Carburizing Furnaces, Annealing

Furnaces, Hardening Furnaces, Tempering Furnaces, Gas Burners, Gas and Air Burners, Furnaces for Heat Treating Metal, Blowers, Blow Pipes and Torches, Refractory and Metal Open Top Furnaces for Brazing, Cyanide Furnaces, Forges, Metal Heating Furnaces, Muffle Furnaces, Oil-Tempering Furnaces, Oven Furnaces, Plating Furnaces, Rivet Heaters, Metal Tempering Plates, Tire Heaters, Tube Heaters, Gas Blast Burners, Gas and Oxygen Burners, Fire Checks for Furnaces, Automatic Furnaces, Reciprocating Full Muffle Heating Furnaces, Metal Melters, Tube Furnaces, and Gas Cracking Furnaces.

Claims use since Feb. 2, 1940, as to the mark shown; since 1878 as to "American Gas Furnace Co."; and since 1921 as to "Pioneers" and "1878."

Ser. No. 579,065. Young Radiator Company, Racine, Wis. Filed May 18, 1949.



Applicant claims ownership of Registration No. 250,695.

For Heat Exchange Devices—Namely, Unit Heaters, Convectors, Convector Cabinets, Parts for the Foregoing, Blast Coils, Evaporator Coils, Steam Distributing Coils, and Water Coils for Space Temperature Conditioning—Namely, Fluid Temperature Regulating Radiators and Parts Therefor, and Supercharger Intercoolers and Aftercoolers for Use With Stationary and Marine Gas, Gasoline, and Diesel Engines and Air Compressors; and—Namely, Heat Transfer Apparatus of the Tube and Shell Type Used in Distillation, Chemical Processes, and Cooling of Quenching Oils.

Claims use since September 1927.

Ser. No. 592,338. Geo. D. Roper Corporation, Rockford, Ill. Filed Feb. 11, 1950.



The word "Bake" is disclaimed.

For Gas Range Ovens for Domestic Use.

Claims use since June 1949.

Ser. No. 602,079. American Air Filter Company, Inc., Louisville, Ky. Filed Aug. 11, 1950.



Applicant claims ownership of Registration No. 341,207.

For (1) Forced Draft Unit Ventilators of the Cabinet Type, (2) Forced Draft Unit Heaters of the Fluid-Heated Radiator Type, (3) Complete Ventilating Blower Units, (4) Propeller Fans for Direct Industrial, Commercial and Institutional Ventilation, (5) Centrifugal Fans for Heating, Ventilating and Air Conditioning Systems, (6) Forced Draft Portable Liquid-Fuel Heaters for Temporary Indoor and Outdoor Heating, Thawing and Drying Purposes and (7) Forced Draft Portable Ventilators for Temporary Ventilating Purposes.

Claims use since April 1937.

Ser. No. 618,530. S. Blickman, Inc., Weehawken, N. J. Filed Sept. 8, 1951.

THERMATIC

Applicant claims ownership of Registration No. 387,136.

For Heated Steam Tables and Food Containers Therefor.

Claims use since December 1937.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 570,659. Sears, Roebuck and Co., Chicago, Ill. Filed Dec. 16, 1948.

Silvertone

Applicant claims ownership of Registrations Nos. 167,620, 170,708, 172,002, 383,358, and 401,375.

For Group A: Mechanical Phonographs, Phonograph Needles, Disc Record Albums, Sound Boxes for Mechanical Phonographs, Grooved Phonograph Records; Group B: Trumpets, Cornets, Accordions, Saxophones, Clarinets, Spanish Guitars, Hawaiian and Spanish Electric Guitars, Mellophones, French Horns, B Flat Baritone Horns, Sousaphones, Upright Bass Horns, Oboes, Alto Clarinets, Bassoon Horns, Baritone Saxophones; Group C: Violins, Trombones; Group D: Harmonicas, Bass Viols; Group E: Mandolins; Group F: Musical Instrument Strings; Group G: Banjos; Group H: Bugles, Drums, Cymbals, Cymbal Stands, Tom Toms, Tom Tom Holders, Drum Sticks, Wire Brushes, Cowbells, Wood Blocks, Drum and Banjo Heads; Group I: Ukuleles, Clarinet and Clarinet Outfits—Namely, Clarinet, Cap, Reed, Ligature, Lyre and Case; Group J: Xylophones; Group K: Pianos; Group L: Electric Guitars; Group M: Blank Discs for Making of Grooved Phonograph Records.

Claims use since October 1915.

Ser. No. 610,555. Louis Greenberg & Son, Inc., New York, N. Y. Filed Feb. 27, 1951.



The representation of the boy playing the violin is fanciful.

For Harmonicas.

Claims use since January 1930.

Ser. No. 616,735. Southern Music Company, San Antonio, Tex. Filed July 20, 1951.

Embassy

For Guitars, Mandolins, Cornets, Trumpets, Trombones, Alto Horns, Baritone Horns, Bass Horns, Clarinets, Oboes, Bassoons, Bass and Alto Clarinets, Flutes and Piccolos, French Horns, and Piano Accordions.

Claims use since Feb. 25, 1950.

CLASS 37

PAPER AND STATIONERY

Ser. No. 566,193. Tension Envelope Corporation, Kansas City, Mo. Filed Sept. 30, 1948.

PENESEALTITE

For Mailing Envelopes.

Claims use since June 15, 1919.

Ser. No. 584,899. Eversharp, Inc., Chicago, Ill. Filed Sept. 16, 1949.

Reporter

Applicant claims ownership of Registration No. 420,422.

For Writing Instruments—Namely, Fountain Pens, Ball Point Pens and Mechanical Pencils.

Claims use since Oct. 15, 1948.

Ser. No. 614,727. Scott Paper Company, Chester, Pa. Filed June 4, 1951.

Scotkins

Applicant claims ownership of Registrations Nos. 106,690, 297,302, 303,536, 306,033, 427,859, and 515,159.

For Paper Napkins.

Claims use since March 1951.

Ser. No. 617,787. A. B. Dick Company, Niles, Ill. Filed Aug. 17, 1951.

DUROTYPE

Applicant claims ownership of Registration No. 181,804.

For Stencil Sheets.

Claims use since May 24, 1951.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 586,584. Becton, Dickinson and Company, Rutherford, N. J. Filed Oct. 20, 1949.

Calcufit

For Charts Used in Determining Sizes in the Fitting of Elastic Hosiery.

Claims use since Sept. 7, 1949.

Ser. No. 616,545. H. S. Crocker Co., Inc., doing business as Crocker-Union and California Artists, San Bruno, Calif. Filed July 16, 1951.

Accent on Christmas

The word "Christmas" is disclaimed.

For Christmas Cards.

Claims use since Mar. 9, 1951.

Ser. No. 617,733. Audrey M. Smith, St. Louis, Mo. Filed Aug. 15, 1951.

POLLY

For Trading Stamps.

Claims use since Aug. 7, 1951.

Ser. No. 618,014. Tribune Company, Chicago, Ill. Filed Aug. 23, 1951.

ALL IN SPORT

For Series of Cartoons.

Claims use since Aug. 6, 1951.

Ser. No. 618,295. Industry Publications, Inc., New York, N. Y. Filed Aug. 31, 1951. (Sec. 2f.)

AGRICULTURAL CHEMICALS

Applicant claims ownership of Registration No. 432,755.

For Monthly Publications.

Claims use since Apr. 28, 1946.

Ser. No. 618,431. The Irving-Cloud Publishing Company, Chicago, Ill. Filed Aug. 1, 1951.

For the MAN AT THE PUMP

For Periodical Publication Section.

Claims use since December 1934.

CLASS 39

CLOTHING

Ser. No. 526,243. Joseph A. Katz Company, New York, N. Y. Original filed, act of 1905, July 4, 1947; amended to application under act of 1946, Principal Register, Dec. 19, 1951. (Sec. 2f.)

LORIENT

For Ladies' Hosiery.

Claims use since 1929.

Ser. No. 550,981. Adamoff Manufacturing Company, Elizabeth, N. J. Filed Mar. 2, 1948.



The word "Sportswear" is disclaimed.

For Men's and Boys' Leather, Wool, and Wool Gabardine Coats and Jackets.

Claims use since Jan. 21, 1948.

Ser. No. 575,216. Lord's Sportwear, Inc., New York, N. Y. Filed Mar. 10, 1949.

House of Lord's

For Women's and Misses' Suits, Coats, and Dresses.
Claims use since Sept. 1, 1948.

Ser. No. 597,036. Lyle & Scott Ltd., Hawick, Scotland. Filed Apr. 7, 1950. (Sec. 2f.)

Lyle and Scott

For Men's and Women's Sweaters and Women's Skirts.
Claims use since Apr. 1, 1940; and in commerce between the United States and Scotland since Apr. 1, 1940.

Ser. No. 597,234. Bernhard Schon, Potts Point, Sydney, New South Wales, Australia. Filed May 10, 1950.

Dyomee

Applicant claims ownership of Australian Registration No. 74,811, dated June 9, 1939.
For Ladies' Lingerie—Namely, Slips, Panties, Nightgowns, Pajamas and Negligees, Hosiery, and Brassières.

Ser. No. 599,940. Getzel Sales Company, New York, N. Y. Filed June 29, 1950.

Fanfare

For Hosiery, for Men, Women, Boys, and Girls.
Claims use since Jan. 6, 1949.

Ser. No. 601,508. Walter W. Moyer Company, Ephrata, Pa. Filed July 31, 1950.



The word "Togs" is disclaimed.
For Men's, Women's, and Children's Underwear.
Claims use since June 21, 1950, as to the mark shown; and since Feb. 15, 1932, as to "Par Togs."

Ser. No. 604,305. Roger Kent, Inc., New York, N. Y., Philadelphia, Pa., New Haven, Conn., and Cambridge and Boston, Mass. Filed Oct. 2, 1950.

THE KENTCHESTER

For Men's Clothing—Namely, Raincoats.
Claims use since Aug. 1, 1950.

Ser. No. 606,059. Stevens & Pedley Limited, Nottingham, England. Filed Nov. 7, 1950.

STEPPO

Applicant claims ownership of British Registration No. 374,632, dated Sept. 8, 1916.
For Men's, Women's, Children's, and Infants' Wearing Apparel—Namely, Socks and Stockings, Underwear Consisting of Shirts, Vests, Shorts, Drawers and Union Suits, Pants, Panties, Knickers, Camisoles, Trunks, and Knitted Articles of Clothing—Namely, Pyjamas, Night-Dresses, Sleeping Suits, Dressing Gowns and Jackets, Bed-Jackets, House-Coats, Suits, Waistcoats, Outer Skirts, Frocks, Spencers, Rompers, Sport Shirts and Blouses, Foot-Ball Jerseys, Gym Shirts, Bathing Suits and Trunks, Lumber Coats, Jersey Suits, Infants' Wrappers.

Ser. No. 606,952. Chester H. Roth Co., Inc., New York, N. Y. Filed Nov. 25, 1950.

DIAMOND-FRAMED

For Men's, Women's, Boys', and Girls' Hosiery.
Claims use since Nov. 3, 1950.

Ser. No. 606,953. Chester H. Roth Co., Inc., New York, N. Y. Filed Nov. 25, 1950.

Edge-Framed

For Men's, Women's, Boys', and Girls' Hosiery.
Claims use since Nov. 3, 1950.

Ser. No. 606,954. Chester H. Roth Co., Inc., New York, N. Y. Filed Nov. 25, 1950.

FRAME-EDGE

For Men's, Women's, Boys', and Girls' Hosiery.
Claims use since Nov. 3, 1950.

Ser. No. 606,955. Chester H. Roth Co., Inc., New York, N. Y. Filed Nov. 25, 1950.

Framed-Diamond

For Men's, Women's, Boys', and Girls' Hosiery.
Claims use since Nov. 3, 1950.

Ser. No. 608,056. Butler's, Inc., Atlanta, Ga. Filed Dec. 26, 1950.

SouthernCharm

Applicant claims ownership of Registration No. 542,366.
For Hosiery and Slippers for Women and Girls.
Claims use since October 1942.

Ser. No. 608,550. Keystone Knitting Mills (1928) Limited, Elstree, England. Filed Jan. 9, 1951.

KEYSTONE

Applicant claims ownership of British Registration No. 429,308, dated Sept. 4, 1922.
For Stockings and Socks for Men, Women, Boys, and Girls.

Ser. No. 609,489. M. K. M. Hosiery Mills, Inc., Boston and Jamaica Plain, Boston, Mass. Filed Feb. 1, 1951.

"Francesca"

For Women's Hosiery.
Claims use since Jan. 2, 1951.

Ser. No. 610,446. Joyce, Inc., Pasadena, Calif. Filed Feb. 23, 1951.

Wm Joyce

Wm. Joyce is president of applicant corporation whose consent is of record. Applicant claims ownership of Registrations Nos. 392,863 and 504,118.
For Men's Shoes Made of Leather, Fabric, Rubber, and Combinations of Such Materials.
Claims use since Nov. 9, 1949.

Ser. No. 611,749. Allen Underwear Manufacturing Co., Inc., New York, N. Y. Filed Mar. 26, 1951.

"Be-Free"

For Ladies' Underwear—Namely, Panties and Slips.
Claims use since Mar. 2, 1951.

Ser. No. 612,486. Davids Gloves, Inc., Springfield, Ohio. Filed Apr. 11, 1951.

PLASTILIFE

For Work Gloves Made of Fabric Material.
Claims use since October 1947.

Ser. No. 613,425. Morris Schwartz & Sons, Inc., New York, N. Y. Filed May 2, 1951.

SWAYVELLE

For Women's and Misses' Cloth Coats.
Claims use since Mar. 19, 1951.

Ser. No. 614,489. Chas. Chipman's Sons Co., Inc., New York, N. Y. Filed May 29, 1951. (Sec. 2f.)

FAR FAMED

For Hosiery for Men, Women, Boys, and Girls.
Claims use since May 26, 1926.

Ser. No. 615,455. Juliana Lingerie, Inc., New York, N. Y. Filed June 20, 1951.

"Show-Top"

The word "Top" is disclaimed.
For Women's and Misses' Lingerie—Namely, Ladies' and Misses' Nightgowns, Petticoats, and Slips.
Claims use since Feb. 9, 1951.

Ser. No. 615,861. Boris Smoler & Sons, Inc., Chicago, Ill. Filed June 28, 1951.

Coquette

For Misses' and Women's Dresses.
Claims use since 1928.

Ser. No. 615,862. Boris Smoler & Sons, Inc., Chicago, Ill. Filed June 28, 1951.

LITTLE COQUETTE

For Children's Dresses.
Claims use since 1944.

Ser. No. 615,986. Royal Leonard, Inc., Glendale, Calif. Filed July 2, 1951.

BOOT-LEGGERS

For Trouser Leg Protectors.
Claims use since Feb. 15, 1951.

Ser. No. 616,016. Crown Togs Sportswear Co., New York, N. Y. Filed July 3, 1951.

Snomaster

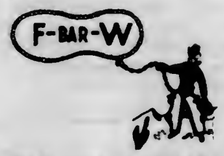
For Men's, Boys', and Children's Outer Garments Consisting of Coats, Slacks, Trousers, Sport Shirts, and Lounging and Sport Jackets.
Claims use since Feb. 19, 1951.

Ser. No. 616,365. Commerce Manufacturing Company, Inc., Commerce, Ga. Filed July 12, 1951.

Co-Man-Chees

For Dungarees.
Claims use since July 21, 1950.

Ser. No. 616,615. F. W. Woolworth Co., New York, N. Y. Filed July 17, 1951.



For Men's, Women's, Boys', and Girls' Dungarees and Jeans.
Claims use since May 22, 1951.

Ser. No. 616,654. Timely Clothes, Inc., Rochester, N. Y. Filed July 18, 1951.

CONESTOGA

For Men's Suits, Topcoats, and Sport Coats.
Claims use since Jan. 17, 1951.

Ser. No. 616,921. Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Filed July 25, 1951. (Sec. 2f.)

Carroll brand

The word "Brand" is disclaimed. Applicant claims ownership of Registrations Nos. 267,617, 513,512, 515,465, 522,040, 529,231, 531,566, and 531,567.

For Children's Clothing—Namely, Over-Trousers, Crawlers, Sunsuits, Snowsuits, Dresses, Skirts, Blouses, Playsuits, Smocks, and Gymsuits, Pram Suits, Buntings, Creepers, Slips, Christening Sets, Sweaters, Sacques, Wrappers, Shawls, Stockings, Socks, Mittens, Gloves, Bibs, Booties, Shirts, Bands, Nightgowns, Diapers and Diaper Liners; and for Men's, Young Men's, Ladies', and Girls' Clothing—Namely, Coats, Suits, Jackets, Trousers, Slacks, Raincoats, Raincapes, Sweaters, Outer and Under Shirts, Overalls, Coveralls, Outer and Under Shorts, Slips, Pajamas, Robes, Housecoats, Dresses, Nightgowns, Bathing Suits and Trunks, Anklets, and Stockings.

Claims use since July 19, 1946.

Ser. No. 616,922. Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Filed July 25, 1951.

Lady Carroll

Applicant claims ownership of Registrations Nos. 267,617, 513,512, and others.

For Women's Clothing—Namely, Corsets, Girdles, House Coats and House Dresses, Nightgowns, Slips, Negligees, Dresses, Jumpers, Playsuits, Halters, Industrial Uniforms, Aprons, Smocks, Collars, Blouses, Scarves, and Shawls; Men's, Women's, and Children's Clothing—Namely, Coats, Sport Jackets, Suits, Raincoats, Raincapes, Ski Jackets, Ski Trousers, Trousers, Slacks, Slack Suits, Under and Outer Shorts, Bathing Suits, Under and Outer Shirts, Sweaters, Jodhpurs, Boots and Shoes and Slippers of Leather, of Fabric and Combinations Thereof, Stockings, Socks, Anklets, Gloves of Leather, Fabric and Combinations Thereof, Beach, Bath, and Lounging Robes, Underwear, Pajamas, and Handkerchiefs.

Claims use since July 19, 1946.

Ser. No. 617,057. Rainfair, Inc., Racine, Wis. Filed July 27, 1951.

"TITEX"

For Jacket and Pants Combination, for Use by Men.

Claims use since Feb. 5, 1938.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 608,927. Empire Sporting Goods Manufacturing Co. Inc., New York, N. Y. Filed Jan. 18, 1951.

EMPIRE

Applicant claims ownership of Registration No. 420,115.

For Sports Emblems and Sports Letters Made of Textile Material.

Claims use since January 1939.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 607,020. William Heller, Incorporated, New York, N. Y. Filed Nov. 28, 1950.

CALYPSO

For Piece Goods of Cotton, Wool, and Synthetic Fibers.

Claims use since Oct. 20, 1950.

Ser. No. 607,144. The Scottish Towel Company Limited, Glasgow and Hillington, Glasgow, Scotland. Filed Nov. 30, 1950.

RUBADUB

Applicant claims ownership of British Registration No. 685,596, dated Jan. 16, 1950.

For Towels and Towelling All of Textile Material.

Ser. No. 607,921. Bartmann & Bixer, Inc., New York, N. Y. Filed Dec. 21, 1950.

SHEERLON

For Net Window Curtains.

Claims use since Nov. 1, 1950.

Ser. No. 608,213. Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa. Filed Dec. 29, 1950.

BEVERLY

Applicant claims ownership of Registration No. 251,699.

For Textile Rugs and Carpets.

Claims use since Nov. 28, 1927.

Ser. No. 612,479. Bernhard Altmann, New York, N. Y. Filed Apr. 11, 1951.

AMERAYON

For Fabrics Including Flannel, Gabardine, and Canvas, Blankets, Textile Carpets, Shower and Window Curtains, Elastic Webbing, Bed Sheets, and Bed Sheeting, All Being Made Wholly of Rayon or in Substantial Part of Rayon Combined With Wool, Worsted, Cotton, Silk, Linen, and Synthetic Fibers.

Claims use since November 1950.

Ser. No. 612,730. William Clark & Sons Limited, Upperlands, Northern Ireland. Filed Apr. 17, 1951.

UPPERLANDS

Applicant claims ownership of British Registration No. 685,921, dated Jan. 27, 1950.

For Textile Fabrics—the Fibers From Which the Fabrics Are Made Are Cotton, Hemp, Linen, Wool, Worsted, Hair, Silk, Artificial Silk, Jute, and Combination of the Foregoing-Mentioned Fibers.

Ser. No. 615,163. Dan River Mills, Incorporated, Danville, Va. Filed June 14, 1951.

DANLAWN

Applicant claims ownership of Registration No. 435,334.

For Sheets, Sheeting, and Pillow Cases, All Made of Textile Fabrics.

Claims use since May 22, 1951.

Ser. No. 615,271. Dan River Mills, Incorporated, Danville, Va. Filed June 16, 1951.

DANSPUN

Applicant claims ownership of Registrations Nos. 435,334 and 520,490.

For Sheets, Sheeting, and Pillow Cases, All Made of Textile Fabrics.

Claims use since May 22, 1951.

Ser. No. 615,272. Dan River Mills, Incorporated, Denville, Va. Filed June 16, 1951.

RIVER WEAVE

The word "Weave" is disclaimed. Applicant claims ownership of Registrations Nos. 73,903 and 331,650.

For Cotton Piece Goods Used as Shirting Fabrics.

Claims use since Apr. 19, 1951.

Ser. No. 615,815. Cadillac Textiles Incorporated, Valley Falls, R. I. Filed June 28, 1951.

La-V-on

For Textile Fabrics of Synthetic Fibers and of Plastic Yarn.

Claims use since June 5, 1951.

Ser. No. 615,979. Graytogs, Inc., New York, N. Y. Filed July 2, 1951.

SANTA CLOTH

The word "Cloth" is disclaimed.

For Fabrics of Cotton, Wool, and Synthetic Fibres and Mixtures Thereof.

Claims use since May 25, 1950.

Ser. No. 616,707. Archibald Holmes & Son, Philadelphia, Pa. Filed July 20, 1951.

Capella

For Carpets and Rugs, Made From Textiles, Cotton, Wool, Pile and Combinations Thereof.

Claims use since June 13, 1951.

Ser. No. 616,708. Archibald Holmes & Son, Philadelphia, Pa. Filed July 20, 1951.

Escapade

For Carpets and Rugs, Made From Textiles, Cotton, Wool, Pile and Combinations Thereof.

Claims use since June 18, 1951.

Ser. No. 616,709. Archibald Holmes & Son, Philadelphia, Pa. Filed July 20, 1951.

Invader

For Carpets and Rugs, Made From Textiles, Cotton, Wool, Pile and Combinations Thereof.

Claims use since June 18, 1951.

Ser. No. 616,791. Beaunit Mills, Inc., New York, N. Y. Filed July 23, 1951.

Trulure

For Fabrics of Cotton, Wool, Silk, and Synthetic Fibers.

Claims use since May 11, 1951.

Ser. No. 617,075. Bartmann & Bixer, Inc., New York, N. Y. Filed July 28, 1951.

KENTIQUE

Applicant claims ownership of Registrations Nos. 547,190, 547,191, and 548,972.

For Window Curtains.

Claims use since Dec. 1, 1950.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 591,787. Emily M. Laser, Palm Springs, Calif. Filed Feb. 1, 1950.

THE MAGIC PILLOW

The word "Pillow" is disclaimed.

For Portable Massaging Device for Therapeutic Purposes for the Entire Human Body, Said Massaging Device Comprising a Cushioned Exterior Having Within It an Electrically Powered Unit Producing Soothing Rhythmic Movements on the Exterior Surface of the Device for Transmission to the Body.

Claims use since Sept. 15, 1949.

Ser. No. 600,006. A. H. Crundall Proprietary Limited, Melbourne, Victoria, Australia. Filed Dec. 28, 1949.

ASPAX

Applicant claims ownership of Australian Registration No. 80,107, dated May 21, 1943.
For Refillable Vaporizers Operated by a Rubber Bulb for Vaporizing Medicaments, Said Vaporizers Sold as Units.

Ser. No. 600,466. B. Braun, Melsungen, Hessen, Germany. Filed July 11, 1950.

COLLAFIL

For Catgut for Surgical Use.
Claims use since Nov. 22, 1949; and first used in commerce between foreign nations (Germany) and the United States on Mar. 3, 1950.

Ser. No. 601,205. Ethicon Suture Laboratories Incorporated, New Brunswick, N. J. Filed July 25, 1950.

ETHI-PACK

The word "Pack" is disclaimed. Applicant claims ownership of Registrations Nos. 270,970 and 522,718.
For Sutures and Ligatures.
Claims use since Apr. 27, 1950.

Ser. No. 602,132. Alumni Research Foundation of the College of Medical Evangelists, Loma Linda, Calif. Filed Aug. 14, 1950.

Neutrilium

For Elongated Metal Members Used for the Internal Fixation of Fractured Femurs.
Claims use since Apr. 25, 1950.

Ser. No. 602,203. H. D. Justi & Son, Inc., Philadelphia, Pa. Filed Aug. 15, 1950.

DENTA PEARL "S-R"

The word "Pearl" is disclaimed. Applicant claims ownership of Registration No. 385,066.
For Artificial Teeth.
Claims use since June 28, 1950.

Ser. No. 602,204. H. D. Justi & Son, Inc., Philadelphia, Pa. Filed Aug. 15, 1950.

"S-R"

For Artificial Teeth.
Claims use since June 28, 1950.

Ser. No. 608,286. Raymond F. Pendergast, Chicago, Ill. Filed Jan. 2, 1951.

KORN BARBER

The word "Korn" is disclaimed.
For Knife for Paring Human Corns.
Claims use since September 1948.

Ser. No. 608,798. Mead Johnson & Company, Evansville, Ind. Filed Jan. 15, 1951.

AMICLOSURE

For Dispensing Closures for Sterile Liquid Containers.
Claims use since June 23, 1949.

Ser. No. 613,782. Will Ross, Inc., Milwaukee, Wis. Filed May 11, 1951.

White Knight

Applicant claims ownership of Registration No. 307,620.
For Cotton Garments Especially Adapted for Hospital Use, and Comprising: Operating Gowns, Operating Suits, Umbilical Bandages, Breast Bandages, Scultetus Bandages, Abdominal Bandages, T Bandages, Surgical Leggings (Over-Sized Stockings Made of Unbleached Sheeting To Cover the Patient's Legs Entirely Up to the Hip), Operating Caps, Gauze Masks, Surgical Masks, and Ice Cap Masks.
Claims use since Dec. 6, 1932.

Ser. No. 615,215. Gillette Safety Razor Company, Boston, Mass. Filed June 15, 1951.

Prom

Applicant claims ownership of Registrations Nos. 289,051 and 295,188.
For Home Permanent Waving Kits Consisting of Cold Wave Waving Lotion, Neutralizer, and End Papers.
Claims use since May 3, 1951.

Ser. No. 615,470. Wyeth Incorporated, Philadelphia, Pa. Filed June 20, 1951.

PELJECTOR

For Medicinal Pellet Implanter.
Claims use since June 5, 1951.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 614,026. Wilrick, Inc., New York, N. Y. Filed May 17, 1951.

"4 to 1"

For Nonalcoholic Maltless Soft Drinks and Concentrates Used in the Preparation of Grape-Flavored Soft Drinks.
Claims use since Feb. 1, 1951.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 541,668. Albert F. Goetze, Incorporated, Baltimore, Md. Filed Nov. 19, 1947. (Sec. 2f.)



The drawing is lined for blue, red, and yellow.
For Scrapple.
Claims use since Mar. 21, 1921.

Ser. No. 569,621. The Great Western Sugar Company, Denver, Colo. Filed Nov. 30, 1948.



The words "Pure Sugar," "Extra-Fine Granulated" and "None Sweeter" are disclaimed.
For Refined Beet Sugar.
Claims use since May 11, 1948.

Ser. No. 577,241. The Villa Park Orchards Association, Orange, Calif. Filed Apr. 15, 1949.

RED DOG

For Fresh Citrus Fruits.
Claims use since 1937.

Ser. No. 593,454. Allen Foods, Inc., St. Louis, Mo. Filed Mar. 6, 1950.

ALBEN

For Canned Fruits and Berries, as Follows: Boysenberries, Cherries, Gooseberries, Peaches, Pears; Canned Vegetables, as Follows: Asparagus, Green Beans, Peas, Sweet Potatoes, Tomato Puree.
Claims use since Jan. 2, 1946.

Ser. No. 598,787. W. A. Davis Milling Company, High Point, N. C. Filed June 8, 1950.



The words "Davis Quality Tested," "Dog Food," and "A Meal With Taste Appeal" are disclaimed.
For Dog Food.
Claims use since May 10, 1950.

Ser. No. 603,084. The Silver Lane Pickle Company, East Hartford, Conn. Filed Sept. 1, 1950.

Silver Lane

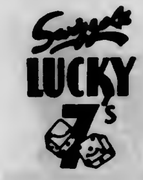
Applicant claims ownership of Registration No. 176,606.
For Dill Pickles—Namely, Processed Dill Pickles, Fresh Packed Dill Pickles and Gherkins, Dill Pickle Chips and Dill Relish; Sweet Pickles—Namely, Sweet Gherkins, Sweet Mixed Pickles, Sweet Pickle Chips, Sweet Relish, and Sweet Mustard Pickle; Sauerkraut; Sweet and Sour Pickled Onions; Vinegar—Namely, Cider Vinegar and Distilled Grain Vinegar; Sour Pickles.
Claims use since 1906.

Ser. No. 604,251. Armour and Company, doing business under the trade style Jacob E. Decker & Sons, Chicago, Ill. Filed Sept. 30, 1950.

KORN KIST

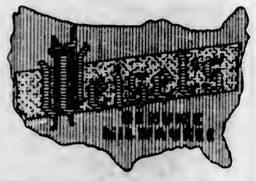
Applicant claims ownership of Registration No. 259,467.
For Sausage.
Claims use since 1936.

Ser. No. 605,063. Swizzels, Inc., Hoboken, N. J. Filed Oct. 17, 1950.



Applicant claims ownership of Registrations Nos. 517,166 and 517,167.
For Candy.
Claims use since Oct. 10, 1950.

Ser. No. 605,621. Weisel & Co., Inc., doing business under the name Weisel & Co., Milwaukee, Wis. Filed Oct. 30, 1950. (Sec. 2f as to the surname "Weisel" and the map of the United States.)



The words "Genuine Milwaukee" are disclaimed. The drawing is lined for the colors red, blue and yellow.

For Liver and Bacon Sausage, Braunschweiger, and Gee Liverwurst.

Claims use since Sept. 12, 1950, on the mark as shown; since Aug. 9, 1878, as to the surname "Weisel"; and since July 1925, as to the map of the United States.

Ser. No. 606,763. F & F Laboratories, Inc., Chicago, Ill. Filed Nov. 22, 1950.

LIXIES

Applicant claims ownership of Registration No. 228,295.
For Candy.
Claims use since June 23, 1926.

Ser. No. 607,063. Acme-Evans Company, Inc., Indianapolis, Ind. Filed Nov. 29, 1950.

PASTRY KING

The word "Pastry" is disclaimed.
For Wheat Flour.
Claims use since Feb. 15, 1945.

Ser. No. 607,154. Charles Boubli, Paris, France. Filed Dec. 1, 1950.

Dornibus

For Prepared Mustard.

Claims use since 1936; and since 1936 in commerce among the several States and/or in commerce between France and the United States.

Ser. No. 607,528. The Rath Packing Company, Waterloo, Iowa. Filed Nov. 18, 1950. (Sec. 2f as to "Rath.")



Applicant claims ownership of Registrations Nos. 89,699, 124,339, 189,645, and others.

For Ham, Pork Shoulder Picnic, Pork Shoulder Butt, Bacon, Canadian Style Bacon, Dried Beef, Smoked Beef Tongue, Lamb, Pork Sausages, Frankfurters, Liver Sausage, Bologna Sausage, Tongue and Blood Sausage, Salami Sausage, Luncheon Meat, Cheese and Meat Loaves, Chili Con Carne, and Lard.

Claims use since Mar. 1, 1949, as to the mark shown; since July 1, 1894, as to "Rath's"; since July 1, 1939, as to "Rath"; since Feb. 1, 1892, as to "Black Hawk"; and since July 1, 1939, as to "Rath Black Hawk."

Ser. No. 609,305. Lyndonville Canning Company, Inc., Lyndonville, N. Y. Filed Jan. 26, 1951. (Sec. 2f as to "Visscher Brothers.")



The drawing is lined for the color green and hatched for the color gold. Applicant claims ownership of Registration No. 286,535.

For Canned Apple Sauce.

Claims use since Sept. 1, 1950, on the mark as shown; and since Dec. 31, 1917, as to the words "Visscher Brothers."

Ser. No. 613,653. Charles L. Schwartz, doing business under the name of Hampshire Manor, Lyndeboro, N. H. Filed May 8, 1951.

Hampshire Manor

For Chocolate Flavored Popped Pop-Corn and Butterscotch Flavored Popped Pop-Corn.

Claims use since Dec. 14, 1950.

Ser. No. 614,071. Swift & Company, Chicago, Ill. Filed May 18, 1951. (Sec. 2f.)

Swift's

Applicant claims ownership of Registrations Nos. 278,221 and 299,483.

For Stabilizers for Ice Cream.

Claims use since 1940.

Ser. No. 614,640. Wakefield Coffee Co. of California, doing business under the name of Wakefield Coffee Co., Glendale, Calif. Filed June 1, 1951.

WAKEFIELD COFFEE

The word "Coffee" is disclaimed.
For Coffee.
Claims use since May 9, 1951.

Ser. No. 614,747. William Spencer Bowen, doing business under the name of Bowen & Company, Westfield, N. J. Filed June 5, 1951.



For Ground Beef Extender Consisting of Soy Flour, Whole Wheat Flour, Milk Powder, Brewers' Yeast, Sugar Cane Molasses, and Corn Glucose.

Claims use since Apr. 22, 1951.

Ser. No. 617,723. Nebraska Consolidated Mills Company, doing business as Alabama Flour Mills, Omaha, Nebr. Filed Aug. 15, 1951.

RED HAT

For Poultry Mash and Dairy and Hog Feeds.
Claims use since July 9, 1951.

Ser. No. 618,465. C. F. Mueller Company, Jersey City, N. J. Filed Sept. 6, 1951.

RIB-A-RONI

For Alimentary Pastes.
Claims use since Aug. 14, 1951.

Ser. No. 618,510. Research Products Company, Kansas City, Mo. Filed Sept. 7, 1951.

Tungsase

For Diastatic Malt Supplement for Bread.
Claims use since July 28, 1951.

Ser. No. 618,723. Angostura Bitters (Dr. J. G. B. Siegert & Sons) Limited, Port of Spain, Trinidad. Filed Sept. 13, 1951. (Sec. 2f.)

ANGOSTURA

Applicant claims ownership of United States Registrations Nos. 63,312 and 340,780.

For Aromatic Bitters Used for Food Flavoring Purposes.

Claims use since 1875 in commerce between Trinidad and the United States; and since 1927, as to the mark shown, in interstate commerce in the United States.

Ser. No. 618,844. Consolidated Products Company, Danville, Ill. Filed Sept. 15, 1951.

PICKS

Applicant claims ownership of Registration No. 398,584.
For Poultry Feed.
Claims use since May 1940.

Ser. No. 618,895. W. W. Miller, doing business as Sandcal Gardens, San Diego, Calif. Filed Sept. 17, 1951.

FIELD DAY

For Fresh Tomatoes.
Claims use since June 25, 1950.

Ser. No. 619,314. Standard Brands Incorporated, New York, N. Y. Filed Sept. 27, 1951.

Famous Inn

Applicant claims ownership of Registration No. 436,261.
For Tea.
Claims use since Aug. 8, 1951.

Ser. No. 619,400. Nutritional Research Associates, Inc., South Whitley, Ind. Filed Sept. 29, 1951.

CHILLETS

For Food for Chinchillas in Pellet Form.
Claims use since Mar. 5, 1951.

CLASS 47

WINES

Ser. No. 552,463. Italian Swiss Colony, San Francisco, Calif. Filed Mar. 19, 1948.



The drawing is fanciful.
For Wines.
Claims use since June 1947.

Ser. No. 553,972. Napa Valley Grape Products, Inc., New York, N. Y. Filed Apr. 6, 1948. (Sec. 2f.)

St Helena

For Wines.
Claims use since 1936.

Ser. No. 569,803. Bodegas de Delicias, S. A., Ciudad Delicias, Mexico. Filed Dec. 3, 1948.



The representation of the cluster of grapes is disclaimed. Applicant claims ownership of Mexican Registration No. 55,512, dated July 3, 1947.
For Port Wine.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 575,602. Schoenhofen Edelweiss Company, Chicago, Ill. Filed Mar. 17, 1949.

"A CASE OF GOOD JUDGMENT"

Applicant claims ownership of Registrations Nos. 92,371 and 122,104.
For Beer and Ale.
Claims use since May 1910.

Ser. No. 609,616. Whitbread & Company Limited, London, England. Filed Feb. 3, 1951.



Applicant claims ownership of British Registration No. 612,040, dated June 4, 1940, and United States Registration No. 320,200.
For Ale and Stout.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 613,531. Southern Lumber & Manufacturing Co., Ellijay, Ga. Filed May 4, 1951.

SLAMCO

For Pallets.
Claims use since Aug. 31, 1946.

Ser. No. 614,499. Garten Table Pad Company, Inc., Philadelphia, Pa. Filed May 29, 1951.

MON-O-PAD

The word "Pad" is disclaimed. Applicant claims ownership of Registration No. 365,564.
For Table Pads.
Claims use since Mar. 15, 1933.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 547,159. Societe Anonyme, Bienaime, Paris, France. Filed Jan. 15, 1948.

DENTELLE

Applicant claims ownership of French Registration No. 309,691, dated Dec. 29, 1948.
For Perfumes, Face Creams, Rouge.

Ser. No. 590,649. Irene F. Craft, Ridgewood, N. J. Filed Jan. 11, 1950.

TEEN DATE

For Perfumes.
Claims use since Nov. 5, 1949.

Ser. No. 590,651. Irene F. Craft, Ridgewood, N. J. Filed Jan. 11, 1950.

OVERTURE

For Perfumes.
Claims use since Nov. 5, 1949.

Ser. No. 592,190. Anna K. Butler, doing business under the name Amo-Gene, Chicago, Ill. Filed Feb. 9, 1950.

Amo-Gene

For Dentrifices.
Claims use since Dec. 5, 1949.

Ser. No. 599,094. Richard Hudnut, New York, N. Y. Filed June 14, 1950.

SPUN SUGAR

For Face Powder.
Claims use since May 28, 1950.

Ser. No. 599,097. Richard Hudnut, New York, N. Y. Filed June 14, 1950.

BEAUTY-IN-FASHION

The word "Beauty" is disclaimed. Applicant claims ownership of Registrations Nos. 413,591, 421,493, 428,763, 414,874, and 425,491.
For Cosmetic Kits Containing One or More of the Following Items: Foundation Lotion, Skin Freshener, Cream Rouge, Eye Shadow, Lipstick, Face Powder, Special Skin Cream, Cleansing Cream.
Claims use since May 23, 1950.

Ser. No. 599,817. Helene Curtis Industries, Inc., Chicago, Ill. Filed June 27, 1950.

BARONESS

For Cold Permanent Hair Waving Solution, and Hair Dressing.
Claims use since Mar. 1, 1948.

Ser. No. 601,805. Maternity Cosmetics, Inc., Rochester, N. Y. Filed Aug. 5, 1950.



For Skin Creams, Skin Lotions, and Personal Deodorants, Scalp Conditioners and Hair Conditioners, Especially for Use of Expectant Mothers.
Claims use since Apr. 29, 1950.

Ser. No. 603,720. Amole, Incorporated, Tipp City, Ohio. Filed Sept. 5, 1950.

HELEN WOOD

The name "Helen Wood" is purely fanciful.
For Hand Cream, Hand Lotion, Cleansing Cream, Cold Cream, Texture Cream, Skin Tonic, Cream Deodorant.
Claims use since July 24, 1950.

Ser. No. 606,855. Coty, Inc., New York, N. Y. Filed Nov. 24, 1950.

PETALINN

For Body Lotion.
Claims use since Nov. 14, 1950.

Ser. No. 608,210. The Lander Co. Inc., New York, N. Y. Filed Dec. 29, 1950.

SAMEZI-SOIR

For Perfumes, Toilet Waters, Powder Sachets, Lotions for the Face, Hands, and Hair.
Claims use since Dec. 4, 1950.

Ser. No. 610,780. Jacqueline Cochran, Inc., New York, N. Y. Filed Mar. 3, 1951.

CULTIVAY

For Perfume, Cologne, Skin Lotion, Cold Cream and Vanishing Cream, and Make-Up Base.
Claims use since Dec. 29, 1950.

Ser. No. 611,209. Edward G. Alexander, Columbia, S. C. Filed Mar. 13, 1951.

NOT GUILTY

For Cream Deodorant for Personal Use.
Claims use since Feb. 1, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 528,528. R. R. Street & Co., Inc., Chicago, Ill. Filed July 12, 1947. (Sec. 2f.)

GENERAL FORMULA NO. 209

The word "Formula" is disclaimed.
For Compound for Removing Stains From Textile Fabrics.
Claims use since Oct. 1, 1935.

Ser. No. 560,044. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed June 23, 1948.

PENN SALT

The word "Salt" is disclaimed. Applicant claims ownership of Registrations Nos. 202,019, 248,083, and others.
For Laundry Detergents, Strongly Alkaline Detergents Used as Soap Builders, Drycleaning Soaps, Spotting Compounds, Drycleaning Solvents; Cleansers for Cleaning Utensils, Equipment, Floors, and Walls in Dairies, Milk Plants, Restaurants, and Homes; Acids Formulated for the Purpose of Removing Solid Milk Deposits; Solvent Emulsion Cleansers for Metal and Other Solid Surfaces.
Claims use since Oct. 11, 1946.

Ser. No. 598,927. Revlon Products Corporation, New York, N. Y. Filed June 10, 1950.

Snow Creme

The word "Creme" is disclaimed.
For Cream Shampoo.
Claims use since May 17, 1950.

Ser. No. 599,631. Givaudan-Delawanna, Inc., New York, N. Y. Filed June 23, 1950.



The drawing is not lined for color. The mark consists of two outer concentric circles in close proximity, an annular space therein being provided by two quasi-semi-circles located above and below the horizontal center line of the mark so as to leave a central horizontal channel also. Vertical lines fill the quasi-semi-circles, which each contain a design therein. Applicant claims ownership of Registration No. 388,975.
For Phenolic Organic Chemicals Used in Soaps.
Claims use since October 1924.

Ser. No. 603,476. The Diversey Corporation, Chicago, Ill. Filed Sept. 13, 1950.

SPEC-TAK

Applicant claims ownership of Registration No. 503,866.
For Bottle Washing Compound in Powdered Form and Sold in Bulk Containers for Commercial and Industrial Use.
Claims use since Oct. 4, 1940.

Ser. No. 605,300. The Danbury Rubber Company, Inc., Danbury, Conn. Filed Oct. 23, 1950. (Sec. 2f.)

DANBURY

Applicant claims ownership of Registration No. 430,550.
For Cleaning Material for Removing Wax and Dirt From Painted, Enamelled or Varnished Surfaces of Furniture, Woodwork, Walls and Floors and, Particularly, From Rubber Surfaces Such as Rubber Floor Tile.
Claims use since Spring of 1928 as to "Danbury"; and since January of 1947 as to the composite mark.

Ser. No. 607,579. Church & Dwight Co., Inc., New York and Syracuse, N. Y. Filed Dec. 12, 1950.

ZENITH

Applicant claims ownership of Registrations Nos. 29,168, 29,367, 40,647, 47,448, 47,790, 57,849, and 500,737.
For Detergent for Use in Mechanical and Electrical Dishwashing Machines.
Claims use since Dec. 7, 1950.

Ser. No. 609,995. Advance Colors, Inc., St. Petersburg, Fla. Filed Feb. 13, 1951.

rolor

For Combination Dye and Cleaner for the Purpose of Rejuvenation of All Fabrics.
Claims use since Jan. 19, 1951.

Ser. No. 615,317. The Grove Laboratories, Inc., St. Louis, Mo. Filed June 18, 1951. (Sec. 2f.)

FITCH

Applicant claims ownership of Registrations Nos. 69,936, 516,740, and others.
For Shampoo for the Hair.
Claims use since 1893.

Ser. No. 615,636. The Grove Laboratories, Inc., St. Louis, Mo. Filed June 25, 1951.



For Shampoo for the Hair.
Claims use since 1948.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 581,402. John P. Briggs, doing business as Clown Town, Lakewood, Ohio. Filed July 1, 1949.



For Photographing of Children.
Claims use since May 1, 1948.

Ser. No. 581,561. Novadel-Agene Corporation, Belleville, N. J. Filed July 6, 1949.

Dyox Process

The Stippling is intended to indicate shading. The word "Process" is disclaimed.
For Preparing and Supplying, at the Locality of Its Use, Reagent Gas Such as Dilute Chlorine Dioxide, for the Treatment of Flour and Other Cereal Products To Mature and Improve the Same.
Claims use since August 1948.

Ser. No. 614,202. Claire McCardell Harris, doing business under the name and style of Claire McCardell, New York, N. Y. Filed May 22, 1951.

CLAIRE McCARDELL

Applicant claims ownership of Registration No. 413,346.
For Designing of Fashions in Connection With Clothing and Accessories—Namely, Spectacles, Costume Jewelry, Veils, Hats, Gloves, Belts, Pocket Books, Handbags, Handkerchiefs, and Scarves, Manufactured and Sold by Others.
Claims use since Sept. 19, 1933.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 548,715. Buffalo Evening News, Inc., Buffalo, N. Y., assignee of Edward H. Butler, individually and as trustee under the last will and testament of Edward H. Butler, deceased, doing business as Buffalo Evening News. Filed Feb. 4, 1948.

Uncle Ben

For Entertainment Service in the Nature of Story Telling Rendered Through the Medium of Radio.
Claims use since Sept. 9, 1930.

Ser. No. 583,224. Womrath Bookshops and Libraries, Inc., New York, N. Y. Filed Aug. 9, 1949. (Sec. 2f.)

Womrath

For Lending of Books and Publications to the Public.
Claims use since 1915.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,669. Hosiery for Men, Women, and Children. Owen Osborne Hosiery Mills, Inc., doing business as El-De Sales Company, Gainesville, Ga.
Filed Aug. 26, 1946, Serial No. 508,065. Published Dec. 18, 1951. Class 39.

444,670. Papeteries, i. e., Stationery Comprising Envelopes and/or Paper Either Flat or Folded Put Up in Boxes, Portfolios, or Banded Packages. Western Tablet & Stationery Corporation, Dayton, Ohio.
Filed July 3, 1947, Serial No. 526,165. Published Oct. 30, 1951. Class 37.

ACT OF 1946, PRINCIPAL REGISTER

555,776. Non-Alcoholic Maltless Beverages, Sold as Soft Drinks and Syrups Therefor and Carbonated Water. Vess Dry Company of Ohio, Columbus, Ohio.
Original filed, act of 1905, Oct. 18, 1944; amended to application under act of 1946, Principal Register, Feb. 16, 1948, Serial No. 475,473. Published Mar. 15, 1949. Class 45.

555,777. Wines. Petri Wine Company, San Francisco, Calif., by change of name from Petri Cigar Company, Inc., trading as Petri Wine Company.
Original filed, act of 1905, Dec. 5, 1945; amended to application under act of 1946, Principal Register, July 9, 1951, Serial No. 492,736. Published Oct. 30, 1951. Class 47.

555,778. Self-Measuring Fuel Pumps—Namely, Those for Service Station Use. The Wayne Pump Company, Fort Wayne, Ind.
Original filed, act of 1905, July 21, 1946; amended to application under act of 1946, Principal Register, Jan. 7, 1947, Serial No. 505,022. Published Nov. 20, 1951. Class 26.

555,779. Cellulosic Wrappers for Food Products. Shellmar Products Corporation, Chicago, Ill.
Original filed, act of 1905, July 17, 1946; amended to application under act of 1946, Principal Register, Sept. 11, 1951, Serial No. 505,773. Published Dec. 4, 1951. Class 37.

555,780. Writing Paper, Printing Paper, Bristol and Paper of High Strength and Also for Said Papers of Somewhat Higher Weights but Having Higher Strength Characteristics for General Strong Utility as Manufactured and Sold in Bulk in the Form of Sheets and Rolls to Converters of Such Bulk Paper Into Products for Retail Sale. The Sorg Paper Company, Middletown, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Oct. 19, 1950, Serial No. 525,964. Published Dec. 11, 1951. Class 37.

555,781. Paper Tablets. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Feb. 12, 1951, Serial No. 526,057. Published Nov. 13, 1951. Class 37.

555,782. Loose Writing Paper for School or Office Use, Put Up in Wrapped Packages, Boxes, or Banded. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Oct. 18, 1948, Serial No. 526,080. Published Dec. 11, 1951. Class 37.

555,783. Paper Tablets. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Sept. 14, 1948, Serial No. 526,118. Published Nov. 13, 1951. Class 37.

555,784. Wrapping Paper. Crown Zellerbach Corporation, also doing business as Crown Willamette Paper Company, San Francisco, Calif.
Filed July 5, 1947, Serial No. 527,187. Published Nov. 13, 1951. Class 37.

555,785. Writing, Typewriter, and Printing Paper. Valley Paper Company, Holyoke, Mass.
Filed July 5, 1947, Serial No. 527,523. Published Sept. 13, 1949. Class 37.

555,786. Beer. August Wagner Breweries, Inc., Columbus, Ohio.
Filed July 5, 1947, Serial No. 527,803. Published Dec. 11, 1951. Class 48.

555,787. Men's and Young Men's Suits, Coats, Sport Coats, Pants, Topcoats, and Overcoats. Marx & Haas-Korrekt Company, St. Louis, Mo.
Filed July 26, 1947, Serial No. 529,665. Published Oct. 24, 1950. Class 39.

555,788. Carbonated Citrus-Flavored Soft Drink and the Concentrate From Which the Same Is Made. S. S. Eland, doing business under the style The Quench Company; also under the style Quench Bottling Co., or Quench-Nesbitt Bottling Co., Seattle, Wash.
Filed Sept. 20, 1947, Serial No. 535,140. Published Oct. 30, 1951. Class 45.

555,789. Carbonated Citrus-Flavored Soft Drink and the Concentrate From Which the Same Is Made. S. S. Eland, doing business under the style The Quench Company; also under the style Quench Bottling Co. or Quench-Nesbitt Bottling Co., Seattle, Wash.
Filed Sept. 20, 1947, Serial No. 535,141. Published Oct. 30, 1951. Class 45.

555,790. Memo Pads, Desk Calendars, Paper Weights, and Desk Pen Sets. Syracuse Ornamental Co., Inc., Syracuse, N. Y.
Filed Oct. 16, 1947, Serial No. 538,050. Published Dec. 4, 1951. Class 37.

555,791. Salt Codfish; Smoked Meat—Namely, Bacon; Dressed Poultry, Specifically Turkey. Winn and Lovett Grocery Company, Jacksonville, Fla.
Filed Nov. 24, 1947, Serial No. 542,192. Published Dec. 25, 1951. Class 46.

555,792. Paper Towels. Fort Howard Paper Company, Green Bay, Wis.
Filed Dec. 3, 1947, Serial No. 543,162. Published Dec. 11, 1951. Class 37.

555,793. Stationery, Letter Paper, Leaves for Looseleaf Files, Printed Blanks, and Similar Sheets of Blank Paper. The McBee Company, Athens, Ohio.
Filed Dec. 6, 1947, Serial No. 543,628. Published Dec. 11, 1951. Class 37.

555,794. Stationery—Namely, Letter Paper, Leaves for Looseleaf Files, Printed Blanks, and Similar Sheets of Blank Paper. The McBee Company, Athens, Ohio.
Filed Dec. 6, 1947, Serial No. 543,629. Published Dec. 11, 1951. Class 37.

555,795. Stationery, Letter Paper, Leaves for Looseleaf Files, Printed Blanks, and Similar Sheets of Blank Paper. The McBee Company, Athens, Ohio.
Filed Dec. 6, 1947, Serial No. 543,630. Published Dec. 11, 1951. Class 37.

555,796. Insecticides. Regal Chemical Corporation, Brooklyn, N. Y.
Filed Dec. 6, 1947, Serial No. 543,655. Published Dec. 18, 1951. Class 6.

555,797. Toilet Paper. Fort Howard Paper Company, Green Bay, Wis.
Filed Jan. 5, 1948, Serial No. 546,215. Published Nov. 27, 1951. Class 37.

555,798. Wheat Flour Sold in Sacks to the Commercial Bakers of Flour Products. Van Dusen Harrington Co., now by change of name from King Midas Mill Company, and doing business under the name The Christian Mills, Minneapolis, Minn.
Filed Jan. 22, 1948, Serial No. 547,795. Published Nov. 13, 1951. Class 46.

555,799. Woolen Piece Goods Used in the Manufacture of Clothing. Wawak Company, Inc., Chicago, Ill.
Filed Feb. 14, 1948, Serial No. 549,772. Published June 26, 1951. Class 42.

555,800. Wood Encased Lead Pencils. Eagle Pencil Company, New York, N. Y.
Filed Mar. 5, 1948, Serial No. 551,249. Published Dec. 25, 1951. Class 37.

555,801. Apricot Liqueur, Blackberry Liqueur, Peppermint Liqueur, Creme de Cacao, Kummel, Anisette, Blackberry Flavored Brandy. Cointreau Corporation, Pennington, N. J.
Filed Mar. 16, 1948, Serial No. 552,039. Published Nov. 13, 1951. Class 49.

555,802. Nonalcoholic, Noncereal, Maltless Carbonated Beverages Sold as Soft Drinks, and Sirups and Extracts for Making the Same. Clover Farm Stores Corporation, Cleveland, Ohio.
Filed Mar. 26, 1948, Serial No. 553,076. Published Nov. 6, 1951. Class 45.

555,803. Ale. Jax Ice & Cold Storage Company, also doing business as Jax Brewing Company, Jacksonville, Fla.
Filed Apr. 26, 1948, Serial No. 555,606. Published Dec. 4, 1951. Class 48.

555,804. Plastic Film in the Nature of Artificial Leather Sold in Bolts and Sheets. The Pantasote Company, Passaic, N. J.
Filed Apr. 26, 1948, Serial No. 555,620. Published Nov. 6, 1951. Class 50.

555,805. Shoe Laces. Cecil Corporation, Chicago, Ill.
Filed June 8, 1948, Serial No. 558,692. Published Dec. 18, 1951. Class 40.

555,806. Dress Shirts and Collars, and Combinations Thereof. M. H. Raab-Meyerhoff Co., Inc., Philadelphia, Pa.
Filed June 17, 1948, Serial No. 559,546. Published Nov. 27, 1951. Class 39.

555,807. Publications Issued From Time To Time, Bulletins, and Picture Post Cards. Western Air Lines, Inc., Los Angeles and Los Angeles Airport, Calif.
Filed Jan. 19, 1948, Serial No. 559,762. Published Dec. 4, 1951. Class 38.

555,808. Brandy. J. & F. Martell, Inc., New York, N. Y.
Filed June 24, 1948, Serial No. 560,121. Published Oct. 30, 1951. Class 49.

555,809. Men's Sport Shirts. Skyline Co., Chicago, Ill.
Filed June 26, 1948, Serial No. 560,297. Published Dec. 11, 1951. Class 39.

555,810. Wall Coverings Made of Rayon and Cotton Used Like Wallpaper and Permanently Attached to the Wall. United Wallpaper, Inc., Chicago, Ill.
Filed June 30, 1948, Serial No. 560,508. Published Sept. 5, 1950. Class 42.

555,811. Women's Dresses, Evening Gowns, Coats, Suits, and Furs. Norman Hartnell, Limited, London, England.
Filed July 1, 1948, Serial No. 560,559. Published Nov. 27, 1951. Class 39.

555,812. Cheese. James Joseph Giammalvo, Hackettstown, N. J.
Filed July 13, 1948, Serial No. 561,233. Published Dec. 18, 1951. Class 46.

555,813. Whiskey. Minnie Brumfield Haddix, administratrix of the estate of M. Cornelius Haddix, deceased, doing business under the name of Lexington Distributing Co., Lexington, Ky.
Filed July 15, 1948, Serial No. 561,461. Published Dec. 18, 1951. Class 49.

555,814. Fountain Pens and Mechanical Pencils. Oak Ridge Manufacturing Company, Charleston, S. C.
Filed Aug. 13, 1948, Serial No. 563,357. Published Oct. 30, 1951. Class 37.

555,815. Canned Fruits and Canned Vegetables. R. E. Cotter Company, San Francisco, Calif.
Filed Aug. 23, 1948, Serial No. 563,844. Published Nov. 20, 1951. Class 46.

555,816. Food Flavoring Extracts—Namely, Almond, Lemon, Brandy, Maple, Orange, and Vanilla Extracts. Food Fair Stores, Inc., Philadelphia, Pa.
Filed Sept. 17, 1948, Serial No. 565,329. Published Dec. 18, 1951. Class 46.

555,817. Canned Fruits and Vegetables, Etc. Food Fair Stores, Inc., Philadelphia, Pa.
Filed Sept. 17, 1948, Serial No. 565,330. Published Dec. 25, 1951. Class 46.

555,818. Ladies' and Girls' Suits and Sweaters; and Ladies' and Misses' Dresses, Skirts, Sweaters, Slacks, and Jackets. Marinette Knitting Mills, Marinette, Wis.
Filed Sept. 27, 1948, Serial No. 565,946. Published Nov. 27, 1951. Class 39.

555,819. Fresh Citrus Fruits. Helen Engelman Stegle, Elsa, Tex.
Filed Oct. 18, 1948, Serial No. 567,157. Published Dec. 18, 1951. Class 46.

555,820. Beer. Bosch Brewing Company, Houghton, Mich.
Filed Oct. 19, 1948, Serial No. 567,181. Published Nov. 13, 1951. Class 48.

555,821. Finishing Creams, Face Lotions, Astringents, Skin Tonics, Etc. United Western Laboratories Inc., Denver, Colo.
Filed Nov. 5, 1948, Serial No. 568,288. Published Nov. 20, 1951. Class 51.

555,822. Men's Outer Shirts. Le Roy Shirt Co., Inc., New York, N. Y.
Filed Nov. 12, 1948, Serial No. 568,642. Published Dec. 11, 1951. Class 39.

555,823. Hospital and Sick Room Supplies—Namely, Dressing Jars, Catheters, Glass Tubing, Etc. Goodman-Kleiner Co., Inc., New York, N. Y.
Filed Nov. 13, 1948, Serial No. 568,730. Published Oct. 30, 1951. Class 44.

555,824. Beverage Dispensers, Sold as a Unit—Namely, Beverage Dispensing Mixing Valves, Self Closing Faucets, and Syrup Containers. Jesse Harr Company, Orange, N. J.
Filed Nov. 15, 1948, Serial No. 568,791. Published Dec. 25, 1951. Class 13.

555,825. Liquid, Steam, and Gas Flow Controllers, Etc. Penn Industrial Instrument Corporation, Philadelphia, Pa.
Filed Dec. 31, 1948, Serial No. 571,456. Published Nov. 20, 1951. Class 26.

555,826. Base Metal Shoe Racks, Base Metal Tie and Clothes Hangers Designed To Be Affixed to the Walls, and Base Metal Toilet Paper Holders. Arkwright Merchandising Corporation, New York, N. Y., assignor to Arkwright Incorporated, New York, N. Y., a corporation of New York.
Filed Jan. 7, 1949, Serial No. 571,778. Published Dec. 25, 1951. Class 13.

555,827. Ice Cream Cake Roll and Cake for Making Ice Cream Confections. Newly Weds Baking Co., Chicago, Ill.
Filed Jan. 12, 1949, Serial No. 572,041. Published Dec. 18, 1951. Class 46.

555,828. Vaginal Diaphragm. Gray Fox Inc., Kansas City, Mo.
Filed Jan. 17, 1949, Serial No. 572,302. Published Nov. 6, 1951. Class 44.

555,829. Books. The Literary Guild of America, Inc., Garden City, N. Y.
Filed Feb. 4, 1949, Serial No. 573,327. Published Dec. 4, 1951. Class 38.

555,830. Watch Repair Record Books. Hammel, Riglander & Co., Inc., New York, N. Y.
Filed Mar. 1, 1949, Serial No. 574,700. Published Nov. 13, 1951. Class 37.

555,831. Memorandum Books, Address Books, Bridge Pads, and Gin Rummy Pads. Simplex Binder Co., New York, N. Y.
Filed Mar. 15, 1949, Serial No. 575,495. Published Dec. 11, 1951. Class 37.

555,832. Measuring Liquid Dispensers Adapted To Deliver at Each Actuation, a Measured Quantity of Any Liquid Such as Milk, Syrup, Liquor, or Medicine. Autobar Corporation, New York, N. Y.
Filed Mar. 18, 1949, Serial No. 575,816. Published Nov. 20, 1951. Class 26.

555,833. Face Powder. The Andrew Jergens Company, Cincinnati, Ohio.
Filed Apr. 13, 1949, Serial No. 577,059. Published Nov. 6, 1951. Class 51.

555,834. Watch Guards and Retracting Key Chains, Made in Whole of, in Part of, or Plated With Precious Metal. Ketcham & McDougall, Inc., East Orange, N. J.
Filed Apr. 8, 1949, Serial No. 576,812. Published Nov. 6, 1951. Class 28.

555,835. B–1 Converting Paper. Minnesota and Ontario Paper Company, Minneapolis, Minn.
Filed Apr. 15, 1949, Serial No. 577,205. Published Nov. 27, 1951. Class 37.

555,836. Bath, Lounging, and Beach Robes of Plain Solid Color for Men, Women, and Children. Harry Matail & Sons, New York, N. Y.
Filed Apr. 22, 1949, Serial No. 577,534. Published Dec. 4, 1951. Class 39.

555,837. Processed Grapes Used for Decorative Purposes in the Commercial Manufacture of Foods, Such as Candies. S and W Fine Foods, Inc., also doing business as The Rubyette Co., San Francisco, Calif.
Filed May 5, 1949, Serial No. 578,288. Published May 15, 1951. Class 46.

555,838. Wines. C. Schilling Company, also doing business as Sweet Sue Wine Company, San Francisco, Calif., assignor to Sydney J. Block, New Orleans, La.
Filed May 10, 1949, Serial No. 578,531. Published May 2, 1950. Class 47.

555,839. Scotch Whiskey. Arthur Bell & Sons Ltd., Perth, Scotland.
Filed May 12, 1949, Serial No. 578,675. Published Nov. 13, 1951. Class 49.

555,840. Paper Napkins and Paper Garment Hanger Covers. Protecto Products Co., Inc., Pomona, Calif.
Filed May 13, 1949, Serial No. 578,825. Published Oct. 30, 1951. Class 37.

555,841. Oil, Liquid, and Fuel Measuring and Dispensing Pumps. Tokheim Oil Tank and Pump Company, Fort Wayne, Ind.
Filed May 25, 1949, Serial No. 579,522. Published Nov. 27, 1951. Class 26.

555,842. Sound Pressure Recording Instruments, Etc. Willis Robert Dresser, doing business as The Audio-Tone Oscillator Company, Bridgeport, Conn.
Filed June 11, 1949, Serial No. 580,290. Published Nov. 20, 1951. Class 26.

555,843. Vertical Filing Guides and Indexes, Filing Folders, Card Guides and Indexes, Record Cards and Forms, Payroll Checks, and Payroll Forms. The Shaw-Walker Company, Muskegon, Mich.
Filed July 12, 1949, Serial No. 581,834. Published Dec. 4, 1951. Class 37.

555,844. Bathing Suits. Catalina, Inc., Los Angeles, Calif.
Filed July 13, 1949, Serial No. 581,863. Published Nov. 27, 1951. Class 39.

555,845. Periodical Publication. Wisconsin Farmer Company, Racine, Wis.
Filed July 14, 1949, Serial No. 582,007. Published Dec. 4, 1951. Class 38.

555,846. Publication Issued From Time to Time. United Feature Syndicate, Inc., New York, N. Y.
Filed June 8, 1949, Serial No. 582,374. Published Dec. 18, 1951. Class 38.

555,847. Bow Necktie Made of Wood or Similar Material. Bert J. Lange, trading under the name Timber Tie Company, Randolph, Vt.
Filed Aug. 11, 1949, Serial No. 583,350. Published Nov. 27, 1951. Class 39.

555,848. Correspondence and Mailing Envelopes. Western Tablet & Stationery Corporation, Dayton, Ohio.
Filed Aug. 16, 1949, Serial No. 583,573. Published Oct. 30, 1951. Class 37.

555,849. Men's Neckties. Countess Mara, Inc., New York, N. Y.
Filed Sept. 8, 1949, Serial No. 584,573. Published Sept. 26, 1950. Class 39.

555,850. Men's and Boys' Dress and Work Shirts. Ely & Walker Dry Goods Company, St. Louis, Mo.
Filed Sept. 12, 1949, Serial No. 584,717. Published Nov. 27, 1951. Class 39.

555,851. Preparations for the Treatment of the Hair and Scalp—Namely, Hair Cream, Hair Lotions, Hair Tonics, Face Creams, Perfumes, Hand Creams, and Hand Softeners. John H. Breck, Inc., Springfield, Mass.
Filed Sept. 19, 1949, Serial No. 585,011. Published Nov. 6, 1951. Class 51.

555,852. Alcoholic Solvents Used To Absorb Moisture, Dissolve Gum, Prevent Freezing in Fuel Systems, and for Other Industrial Purposes. Commercial Solvents Corporation, New York, N. Y.
Filed Sept. 28, 1949, Serial No. 585,431. Published Aug. 8, 1950. Class 6.

555,853. Waxed Paper. Nashua Gummed and Coated Paper Company, Nashua, N. H.
Filed Oct. 1, 1949, Serial No. 585,662. Published Dec. 4, 1951. Class 37.

555,854. Outer Shirts for Men. Cluett, Peabody & Co., Inc., Troy, N. Y.
Filed Oct. 4, 1949, Serial No. 585,744. Published Nov. 27, 1951. Class 39.

555,855. Plastic Film and Plastic Coated Fabrics of Cotton, Rayon, and Combinations Thereof for Making Into Draperies, Slip Covers, Bed Spreads, Aprons, Shower Curtains, Raincoats, Juvenile Closet and Household Accessories and the Like. M. Lowenstein & Sons, Inc., New York, N. Y.
Filed Oct. 5, 1949, Serial No. 586,039. Published Dec. 25, 1951. Class 42.

555,856. Bathing Caps Which Are Made of Rubber or Rubber-Like Material. Pretty Products, Inc., Coshocton, Ohio.
Filed Oct. 14, 1949, Serial No. 586,310. Published Nov. 27, 1951. Class 39.

555,857. Gasoline and Oil Storage Measuring Pumps, Measuring Grease Pumps, and Weighing Scales. National Store Specialty Co., Bareville, Pa.
Filed Oct. 21, 1949, Serial No. 586,647. Published Nov. 20, 1951. Class 26.

555,858. Fabric Anklets, Aprons, Infants' Bands, Bathing Apparel and Accessories, Etc. The Emporium Capwell Company, doing business as The Emporium, San Francisco, Calif.
Filed Oct. 24, 1949, Serial No. 586,743. Published Nov. 27, 1951. Class 39.

555,859. Wall Paper. Star-Peerless Wall Paper Mills, Chicago, Ill.
Filed Nov. 5, 1949, Serial No. 587,404. Published Oct. 30, 1951. Class 37.

555,860. Visible Record Cards, Index Cards, and Dividers and Signals for Card Indexes. Acme Visible Records, Inc., Chicago, Ill.
Filed Nov. 8, 1949, Serial No. 587,455. Published Nov. 27, 1951. Class 37.

555,861. Leather Gloves and Mittens. Ideal Leather Manufacturing Company, St. Paul, Minn.
Filed Oct. 31, 1949, Serial No. 587,613. Published May 29, 1951. Class 39.

555,862. Grape Juice. Tea Garden Products Co., San Francisco, Calif.
Filed Nov. 14, 1949, Serial No. 587,767. Published Dec. 4, 1951. Class 45.

555,863. Facial Tissues. Sitroux Incorporated, New York, N. Y.
Filed Nov. 15, 1949, Serial No. 587,827. Published Oct. 30, 1951. Class 37.

555,864. Ladies', Misses', and Children's Hats. Goldstein Millinery Company, Chicago, Ill.
Filed Nov. 16, 1949, Serial No. 587,869. Published Dec. 11, 1951. Class 39.

555,865. Instruments for Recording the Force of an Impact Applied to the Instrument or Its Mounting. Cleveland Impact Recorder, Inc., Cleveland, Ohio.
Filed Dec. 3, 1949, Serial No. 588,740. Published Nov. 20, 1951. Class 26.

555,866. Alcoholic Beverages—Namely, Whiskey. Hunter-Wilson Distilling Co., Inc., Bristol, Pa., and New York, N. Y.
Filed Dec. 7, 1949, Serial No. 588,955. Published Oct. 30, 1951. Class 49.

555,867. Wines. Di Giorgio Fruit Corporation, San Francisco, Calif.
Filed Dec. 9, 1949, Serial No. 589,078. Published Dec. 11, 1951. Class 47.

555,868. Partially Printed Paper Bands Used by Laundries To Maintain Shirts and Other Laundered Goods in Folded Condition. Economy Tablet & Paper Co., Chicago, Ill.
Filed Nov. 12, 1949, Serial No. 589,406. Published Nov. 13, 1951. Class 37.

555,869. Chemicals and Preparations Thereof Used in Processes for Developing Photographic Materials. General Aniline & Film Corporation, New York and Binghamton, N. Y.
Filed Dec. 21, 1949, Serial No. 589,717. Published Nov. 13, 1951. Class 6.

555,870. Spring Water. Pine Hill Crystal Spring Water Co., New York, N. Y.
Filed Jan. 11, 1950, Serial No. 590,699. Published Oct. 30, 1951. Class 45.

555,871. Mechanical Pencils. Owen Morris, doing business as Owen Morris & Co., New York, N. Y.
Filed Jan. 14, 1950, Serial No. 590,907. Published Dec. 11, 1951. Class 37.

555,872. Drawing Paper. B. K. Elliott Company, Pittsburgh, Pa.
Filed Jan. 26, 1950, Serial No. 591,464. Published Dec. 4, 1951. Class 37.

555,873. Memorandum Pads. Belle Anderson, Chicago, Ill.
Filed Jan. 28, 1950, Serial No. 591,604. Published Dec. 4, 1951. Class 37.

555,874. Ball Point Ink Pencils. The Framar Mfg. Co., New York and Brooklyn, N. Y.
Filed Feb. 3, 1950, Serial No. 591,923. Published Nov. 13, 1951. Class 37.

555,875. Neckties, Cravats, Scarves, Suspenders, Garters, and Robes. Curtis A. Limbach, doing business as Calvin Curtis, New York, N. Y.
Filed Feb. 4, 1950, Serial No. 591,991. Published Dec. 11, 1951. Class 39.

555,876. Partially Printed Memorandum Book Supplied for Use by Buyers for Pharmacies and of Pharmaceuticals. D. Kaltman & Co., Inc., Jersey City, N. J.
Filed Feb. 7, 1950, Serial No. 592,081. Published Dec. 11, 1951. Class 37.

555,877. Chemicals and Chemical Preparations, Particularly for Use in Photography, Etc. Chemco Photoproducts Company, Inc., Glen Cove, N. Y.
Filed Feb. 16, 1950, Serial No. 592,546. Published Nov. 13, 1951. Class 6.

555,878. Kraft Liner Board. Southern Paperboard Corporation, Port Wentworth, Ga.
Filed Feb. 17, 1950, Serial No. 592,672. Published Oct. 30, 1951. Class 37.

555,879. Plain, Molded, Hand-Dipped, Decorative, and Art Candles. Koppers Company, Inc., Pittsburgh, Pa., and New York, N. Y.
Filed Feb. 21, 1950, Serial No. 592,820. Published Nov. 6, 1951. Class 15.

555,880. Solvent for Cleaning Air Brake Systems. Preventive Maintenance Company, Bridgeport, Conn.
Filed Feb. 23, 1950, Serial No. 592,933. Published Dec. 18, 1951. Class 52.

555,881. Folders, Comprising Blank Checks and Denomination Stamps for Use in Banking Activities. Louis E. Minkin, Los Angeles, Calif.
Filed Feb. 24, 1950, Serial No. 593,007. Published Nov. 27, 1951. Class 37.

555,882. Laundry Starch. Clinton Foods Inc., Clinton, Iowa.
Filed Feb. 27, 1950, Serial No. 593,109. Published Dec. 18, 1951. Class 6.

555,883. Pipe Hangers, Pipe Supports and Accessories, Pipe Stands, Pipe Protective Saddles, Swivel Couplers and Turnbuckles. Fee & Mason Mfg. Co., Inc., Manasquan, N. J.
Filed Mar. 2, 1950, Serial No. 593,269. Published Dec. 18, 1951. Class 13.

555,884. Corduroy Fabrics for Uses Other Than Men's Suits, Topcoats and Overcoats. J. Bernstein & Son, New York, N. Y.
Filed Mar. 7, 1950, Serial No. 593,526. Published Mar. 13, 1951. Class 42.

555,885. Frozen Products—To Wit, Asparagus Spears, Lima Beans, Broccoli, Brussels Sprouts, Cauliflower, Cut Corn, Green Beans, Mixed Vegetables, Peas, Peaches, Spinach, Strawberries, Succotash, Grape Juice, Raspberries, Kale, and Orange Juice. The Garden Gate Corporation, Seattle, Wash.
Filed Mar. 7, 1950, Serial No. 593,535. Published Nov. 20, 1951. Class 46.

555,886. Relief Valves—Namely, Throw Away and Replaceable Cartridge Over-Pressure Unloaders of the Rupture Disk Type. Henry Valve Company, Melrose Park, Ill.
Filed Mar. 15, 1950, Serial No. 593,988. Published Dec. 18, 1951. Class 13.

555,887. Sport Coats and Overcoats for Men and Sport Suits for Men. Mavest Inc., New York, N. Y.
Filed Mar. 29, 1950, Serial No. 594,854. Published Feb. 13, 1951. Class 39.

555,888. Economic Poisons in the Nature of an Insecticide for Fumigating Grains. Douglas Chemical and Supply Company, Kansas City, Mo.
Filed Apr. 3, 1950, Serial No. 595,125. Published Nov. 13, 1951. Class 6.

555,889. Economic Poisons in the Nature of an Insecticide for Fumigating Grains. Douglas Chemical and Supply Company, Kansas City, Mo.
Filed Apr. 3, 1950, Serial No. 595,126. Published Nov. 13, 1951. Class 6.

555,890. Tablets, Blank Books, Memorandum Books, Note Books, Account Books, and Loose Leaf Books. F. L. Russell Corporation, Saugerties, N. Y.
Filed Apr. 7, 1950, Serial No. 595,418. Published Dec. 11, 1951. Class 37.

555,891. Hand Lotions. G. Barr and Company, Chicago, Ill.
Filed Apr. 19, 1950, Serial No. 595,935. Published Nov. 6, 1951. Class 51.

555,892. Fur Coats, Fur Jackets, and Fur Capes. Levy-Theisen, Inc., New York, N. Y.
Filed Apr. 21, 1950, Serial No. 596,102. Published Nov. 27, 1951. Class 39.

555,893. Snuff. Illingworth's Snuffs Limited, Kendal, Westmoreland, England.
Filed May 2, 1950, Serial No. 596,727. Published Sept. 25, 1951. Class 17.

555,894. Stair and Floor Coverings in the Nature of Mats Made of Rubber or Rubber-Like Synthetic, Reinforced or Non-Reinforced With Other Materials, and Any Combination of the Materials. Industrial Synthetics Corporation, Garwood, N. J.
Filed May 19, 1950, Serial No. 597,762. Published Nov. 6, 1951. Class 50.

555,895. Paste and Liquid Waxes and Self-Polishing Wax for Polishing Floors and Other Surfaces. The Butcher Polish Company, Boston, Mass.
Filed May 24, 1950, Serial No. 598,001. Published Nov. 27, 1951. Class 4.

555,896. Photographic Print Mounts. Frederick D. Fisher, New York, N. Y.
Filed May 24, 1950, Serial No. 598,009. Published Dec. 4, 1951. Class 37.

555,897. Laminated Paper and Foil Bottle Closures Used Upon Milk Bottles. Standard Cap and Seal Corporation, Chicago, Ill.
Filed May 25, 1950, Serial No. 598,118. Published Nov. 6, 1951. Class 50.

555,898. Shirts for Boys. John R. Alongi, Du Quoin, Ill.
Filed May 29, 1950, Serial No. 598,288. Published Dec. 11, 1951. Class 39.

555,899. Slide Fasteners and Parts Thereof—Namely, Sliders, Top Stops, Bottom Stops, and Separators. Waldes Kohinoor, Inc., Long Island City, N. Y.
Filed May 31, 1950, Serial No. 598,399. Published Dec. 25, 1951. Class 13.

555,900. Hosiery for Women and Girls. Hanes Hosiery Mills Company, Winston-Salem, N. C.
Filed June 7, 1950, Serial No. 598,724. Published Dec. 18, 1951. Class 39.

555,901. Screw Pin Shackles. Atlantic Steel Company, Atlanta, Ga.
Filed June 9, 1950, Serial No. 598,825. Published Dec. 18, 1951. Class 13.

555,902. Children's Hats, Infants' Bonnets, and Boys' Caps. Harold J. Lehman, Inc., Chicago, Ill.
Filed June 10, 1950, Serial No. 598,913. Published Dec. 11, 1951. Class 39.

555,903. Orange-Flavored Maltless Soft Drink and Concentrate for Making the Same. Nedick's, Inc., New York, N. Y.
Filed June 10, 1950, Serial No. 598,922. Published Dec. 18, 1951. Class 45.

555,904. Perfume Bases and Perfumes. Givaudan-Delawanna, Inc., New York, N. Y.
Filed June 23, 1950, Serial No. 599,632. Published Nov. 6, 1951. Class 51.

555,905. Self-Polishing Floor Wax. Paradize Products Corporation, Fairview, N. J.
Filed June 23, 1950, Serial No. 599,650. Published Nov. 27, 1951. Class 4.

555,906. Mink Garments—Namely, Coats, Capes, Jackets, Stoles, and Scarfs. Northwood Fur Farms, Cary, Ill.
Filed June 29, 1950, Serial No. 599,966. Published Dec. 11, 1951. Class 39.

555,907. Fresh Fruits, Dried Deciduous Fruits, Frozen Cooked Deciduous Fruits, Hydrated Deciduous Fruit, Olives, and Blanched, Shelled, and Unshelled Nuts. James Mills Orchards Company, Hamilton City, Calif.
Filed June 30, 1950, Serial No. 600,064. Published Dec. 18, 1951. Class 46.

555,908. Leather Bound Desk Engagement Books, Etc. T. J. & J. Smith Limited, London, England.
Filed June 30, 1950, Serial No. 600,089. Published Dec. 18, 1951. Class 37.

555,909. Steel Wire Drag Brooms, Fibre Drag Brooms, Street Push Brooms, and Floor Brushes. Van Brush Manufacturing Co., Kansas City, Mo.
Filed June 30, 1950, Serial No. 600,094. Published Dec. 4, 1951. Class 29.

555,910. Women's Fur Garments—Namely, Coats, Capes, Stoles, Jackets, and Muffs. David Benioff Brothers, San Francisco, Calif.
Filed July 6, 1950, Serial No. 600,252. Published Dec. 11, 1951. Class 39.

555,911. Couplings Having Male and Female Coupling Members for Making Quick Connections in Flexible Lines. Snap-Tite, Inc., Cleveland, Ohio.
Filed July 8, 1950, Serial No. 600,397. Published Dec. 25, 1951. Class 13.

555,912. Lubricating Oils and Greases. The Birmingham Small Arms Company Limited, Birmingham, England.
Filed July 17, 1950, Serial No. 600,760. Published Nov. 6, 1951. Class 15.

555,913. All Types of Pennants, Lapel Buttons of Non-Precious Materials and Pendants Therefor. Roller Derby Associates, Chicago, Ill.
Filed July 20, 1950, Serial No. 600,975. Published Nov. 13, 1951. Class 50.

555,914. Flannel Shirts. Reliance Manufacturing Company, Chicago, Ill.
Filed July 29, 1950, Serial No. 601,467. Published Feb. 13, 1951. Class 39.

555,915. Vitrified Dishware. Shenango Pottery Company, New Castle, Pa., assignor to Peoples First National Bank and Trust Company, Pittsburgh, Pa., a national banking association.
Filed Aug. 1, 1950, Serial No. 601,574. Published Nov. 6, 1951. Class 30.

555,916. Partially Printed Forms, and on Binders and Covers for Enclosing Forms. Charles R. Hadley Company, Los Angeles, Calif.
Filed Aug. 4, 1950, Serial No. 601,727. Published Oct. 30, 1951. Class 37.

555,917. Refrigeration Packaging Products—Namely, Wrapping Paper. International Harvester Company, Chicago, Ill.
Filed Aug. 5, 1950, Serial No. 601,798. Published Dec. 18, 1951. Class 37.

555,918. Refrigeration Packaging Products—Namely, Wrapping Paper. International Harvester Company, Chicago, Ill.
Filed Aug. 5, 1950, Serial No. 601,801. Published Dec. 18, 1951. Class 37.

555,919. Tailors' Chalk. J. Hershkowitz, Inc., New York, N. Y.
Filed Aug. 8, 1950, Serial No. 601,911. Published Dec. 11, 1951. Class 37.

555,920. Nasal Tampons. Johnson & Johnson, New Brunswick, N. J.
Filed Aug. 8, 1950, Serial No. 601,923. Published Nov. 6, 1951. Class 44.

555,921. Bleached and Unbleached Sulphate Kraft Wrapping Paper Manufactured Primarily To Meet the Requirements of the Meat and Grocery Trades. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed Aug. 16, 1950, Serial No. 602,292. Published Dec. 4, 1951. Class 37.

555,922. Fat-Soluble Vitamin Concentrates. Nopco Chemical Company, Harrison, N. J.
Filed Aug. 23, 1950, Serial No. 602,619. Published Nov. 6, 1951. Class 18.

555,923. Fat-Soluble Vitamin-Containing Glyceride Oils. Nopco Chemical Company, Harrison, N. J.
Filed Aug. 23, 1950, Serial No. 602,620. Published Nov. 6, 1951. Class 18.

555,924. Fat-Soluble Vitamin-Containing Glyceride Oils. Nopco Chemical Company, Harrison, N. J.
Filed Aug. 23, 1950, Serial No. 602,621. Published Nov. 6, 1951. Class 18.

555,925. Wrapping Paper and Butchers' Paper. Gulf States Paper Corporation, Tuscaloosa, Ala.
Filed Sept. 7, 1950, Serial No. 603,234. Published Nov. 20, 1951. Class 37.

555,926. Vodka. Hiram Walker & Sons, Inc., Detroit, Mich., and Peoria, Ill.
Filed Sept. 11, 1950, Serial No. 603,424. Published Dec. 11, 1951. Class 49.

555,927. Magazines, Publications Issued Periodically or From Time to Time, Catalogues, Leaflets, Reprints of Literary and Artistic Matter From Publications, Prepared Promotional or Advertising Material Sold or Distributed as Such. McCall Corporation, New York, N. Y.
Filed Sept. 13, 1950, Serial No. 603,486. Published Dec. 11, 1951. Class 38.

555,928. Cosmetic Oils for Dry and Normal Skin. Alexandra De Markoff Sales Corporation, New York, N. Y.
Filed Sept. 16, 1950, Serial No. 603,625. Published Nov. 6, 1951. Class 51.

555,929. Chemicals for Producing Rust-Inhibiting Vapors. Nox-Rust Chemical Corporation, Chicago, Ill.
Filed Sept. 16, 1950, Serial No. 603,644. Published June 5, 1951. Class 6.

555,930. Caps, Shoes, Stockings, Sweat Shirts, T Shirts, Sweat Pants, Uniforms, Trunks, Tights, Boots, Jerseys, Hats, Sweaters, Gym Shirts, Pants and Jackets, Swim Trunks, Referee Shirts, Bathing Caps. Universal Sports Corporation, New York, N. Y.
Filed Sept. 20, 1950, Serial No. 603,823. Published Nov. 27, 1951. Class 39.

555,931. Plastic Material Used as a Substitute for Leather for the Upholstery of Furniture. Samuel Moore & Company, Mantua, Ohio.
Filed Sept. 23, 1950, Serial No. 603,936. Published Nov. 6, 1951. Class 50.

555,932. Wines. Monarch Wine Company of Ga., also trading as Growers Outlet, Atlanta, Ga.
Filed Sept. 29, 1950, Serial No. 604,212. Published Nov. 13, 1951. Class 47.

555,933. Various Paper Office Supplies—Namely, Stenographers' Notebooks, Etc. Ennis Tag & Salesbook Company, Ennis, Tex.
Filed Oct. 5, 1950, Serial No. 604,472. Published Dec. 4, 1951. Class 37.

555,934. Lead and Brass Stubs Used in Connecting a Lead Pipe Onto a Flange Brass Fitting. Vern Collins, Salem, Oreg.
Filed Oct. 7, 1950, Serial No. 604,567. Published Dec. 25, 1951. Class 13.

555,935. Field and Garden Seeds. Kuhlke Seed & Grain Company, Augusta, Ga.
Filed Oct. 11, 1950, Serial No. 604,726. Published July 3, 1951. Class 1.

555,936. Alcoholic Beverages—Namely, Whiskey. The Calvert Distilling Co., New York, N. Y.
Filed Oct. 12, 1950, Serial No. 604,763. Published Nov. 27, 1951. Class 49.

555,937. Fountain Type Dishwashing Brushes. Dishmaster Corporation, Pontiac, Mich.
Filed Oct. 12, 1950, Serial No. 604,774. Published Dec. 4, 1951. Class 29.

555,938. Underwear and Outerwear for Men, Women and Children, Etc. South Carolina Mills, Spartanburg, S. C.
Filed Oct. 13, 1950, Serial No. 604,865. Published Dec. 11, 1951. Class 39.

555,939. Correspondence and Mailing Envelopes. Mail-Well Envelope Company, Portland, Oreg.
Filed Oct. 16, 1950, Serial No. 604,979. Published Dec. 4, 1951. Class 37.

555,940. Men's Suits, Top Coats, Overcoats, Sport Jackets, and Slacks. Wickbury, Ltd., New York, N. Y.
Filed Oct. 19, 1950, Serial No. 605,188. Published Dec. 11, 1951. Class 39.

555,941. Brandy. J. & F. Martell, Inc., New York, N. Y.
Filed Oct. 20, 1950, Serial No. 605,219. Published Oct. 30, 1951. Class 49.

555,942. Check Chain Hooks, Trapdoor Latches, Vestibule Door Latches, Etc. Pullman-Standard Car Manufacturing Company, Chicago, Ill.
Filed Oct. 21, 1950, Serial No. 605,267. Published Dec. 25, 1951. Class 13.

555,943. Lock Nuts. Illinois Tool Works, Chicago, Ill.
Filed Oct. 25, 1950, Serial No. 605,421. Published Dec. 25, 1951. Class 13.

555,944. Mechanical Pencils. Listo Pencil Corporation, Alameda, Calif.
Filed Nov. 3, 1950, Serial No. 605,863. Published Dec. 11, 1951. Class 37.

555,945. Fountain Pens. Robert J. Burnham, Inc., New York, N. Y.
Filed Nov. 15, 1950, Serial No. 606,410. Published Dec. 11, 1951. Class 37.

555,946. Hosiery for Infant Children and Misses. Newnan Hosiery Mills, Incorporated, Newnan, Ga., assignor to Spalding Knitting Mills, a corporation of Georgia.
Filed Nov. 15, 1950, Serial No. 606,433. Published Dec. 11, 1951. Class 39.

555,947. High Potency Vitamin-Containing Solids for Fortifying Foods and Feeds With Vitamins. Nopco Chemical Company, Harrison, N. J.
Filed Nov. 22, 1950, Serial No. 606,788. Published Nov. 6, 1951. Class 18.

555,948. High Potency Vitamin-Containing Solids for Fortifying Foods and Feeds With Vitamins. Nopco Chemical Company, Harrison, N. J.
Filed Nov. 22, 1950, Serial No. 606,789. Published Nov. 6, 1951. Class 18.

555,949. Ladies' and Girls' Knit Sport Skirts, Etc. Fred A. Preddy, doing business as Preddywear Mills, Mount Airy, N. C.
Filed Nov. 22, 1950, Serial No. 606,805. Published Dec. 18, 1951. Class 39.

555,950. Partially Printed Data Card Used Particularly for Recording Data Pertaining to Accidents for Use in Connection With Insurance Claims. Edward V. Dinneen, Chicago, Ill.
Filed Nov. 27, 1950, Serial No. 606,971. Published Nov. 27, 1951. Class 37.

555,951. Ladies' Wearing Apparel—Namely, Dresses and Coats. Sam Elias, Inc., New York, N. Y.
Filed Nov. 28, 1950, Serial No. 607,009. Published Dec. 18, 1951. Class 39.

555,952. Enzyme Inhibitor for the Prevention of Dental Caries. True-Health Chemical Products Corporation, Bradford, Pa.
Filed Nov. 29, 1950, Serial No. 607,103. Published Nov. 6, 1951. Class 18.

555,953. Printed Merchandise Wrappers in Sheet and Roll Form. Shellmar Products Corporation, Chicago, Ill.
Filed Dec. 2, 1950, Serial No. 607,238. Published Dec. 11, 1951. Class 37.

555,954. Automobile Ornaments Stamped From Non-Precious Sheet Metal. Bermo Industries, Inc., Minneapolis, Minn.
Filed Dec. 9, 1950, Serial No. 607,480. Published Nov. 6, 1951. Class 50.

555,955. Cloth in the Piece Woven of Wool and of Wool and Cotton. David & John Anderson Limited, Bridgeton, Glasgow, Scotland.
Filed Dec. 11, 1950, Serial No. 607,535. Published Dec. 25, 1951. Class 42.

555,956. Face Lotion. Jefferson Jones, doing business as J. Jones Products, Chicago, Ill.
Filed Dec. 14, 1950, Serial No. 607,674. Published Nov. 6, 1951. Class 51.

555,957. Carbon Paper and Typewriter Ribbons. Mittag & Volger, Incorporated, Park Ridge, N. J.
Filed Dec. 14, 1950, Serial No. 607,679. Published Nov. 27, 1951. Class 11.

555,958. Non-Alcoholic Maltless Soft Drinks and Concentrates Used in the Preparation of Said Soft Drinks. Virginia Dare Extract Company, Inc., Brooklyn, N. Y.
Filed Dec. 20, 1950, Serial No. 607,909. Published Nov. 6, 1951. Class 45.

555,959. Bond Paper. The Alling & Cory Company, Rochester, N. Y.
Filed Dec. 21, 1950, Serial No. 607,918. Published Dec. 4, 1951. Class 37.

555,960. Ball-Pointed Ink Tubes for Use With Stencils and for Marking Purposes. Gemsco, Inc., New York, N. Y.
Filed Dec. 21, 1950, Serial No. 607,950. Published Dec. 11, 1951. Class 37.

555,961. Wines and Champagnes. K. Arakelian, Inc., doing business as Mission Bell Wineries and Mission Wineries, Madera, Calif., and as Mission Wineries, Escalon, Calif.
Filed Dec. 22, 1950, Serial No. 607,975. Published Oct. 30, 1951. Class 47.

555,962. Writing Paper, Note Paper, Correspondence, and Mailing Envelopes. Carmelle, Inc., Burbank, Calif.
Filed Dec. 22, 1950, Serial No. 607,981. Published Dec. 11, 1951. Class 37.

555,963. Apparatus for Continuously and Automatically Totalizing the Weight of Material as It Passes Over a Conveyor. Builders Iron Foundry, Providence, R. I.
Filed Dec. 28, 1950, Serial No. 608,145. Published Nov. 20, 1951. Class 26.

555,964. Combination Automobile Calendar and Notebook. H. Plymouth Shedd, Wayzata, Minn.
Filed Jan. 5, 1951, Serial No. 608,436. Published Dec. 11, 1951. Class 37.

555,965. Monthly Publication. United Truck Owners of America, Inc., Akron, Ohio.
Filed Jan. 5, 1951, Serial No. 608,442. Published Dec. 25, 1951. Class 38.

555,966. Hair Cosmetics, Comprising Hair and Scalp Treatment Oil, Pressing Oil, Massage Oil, Hair Pomade, and Dandruff Remover. Stacy Wilson, doing business under the name of Madam Stacy Wilson, Chicago, Ill.
Filed Jan. 5, 1951, Serial No. 608,443. Published Nov. 6, 1951. Class 51.

555,967. Fertilizers. Southern Fertilizer & Chemical Company, Savannah, Ga.
Filed Jan. 8, 1951, Serial No. 608,518. Published Dec. 18, 1951. Class 10.

555,968. Infants' Disposable Paper Bibs. Helen Smith McClure, New York, N. Y.
Filed Jan. 9, 1951, Serial No. 608,559. Published Dec. 11, 1951. Class 37.

555,969. Price Marking Tickets, Tags, and Labels. The Monarch Marking System Company, Dayton, Ohio.
Filed Jan. 11, 1951, Serial No. 608,662. Published Dec. 11, 1951. Class 37.

555,970. Pencils and Ball Point Pens, Both Being Hexagonal or Triangular in Shape, Bent With Two Curves and Intended To Be Sold as a Novelty. Evelyn S. Levinson, doing business under the name and style of The Levinson Company, New York, N. Y.
Filed Jan. 13, 1951, Serial No. 608,762. Published Dec. 11, 1951. Class 37.

555,971. Printed Labels. Tompkins' Label Service, Philadelphia, Pa.
Filed Jan. 13, 1951, Serial No. 608,772. Published Dec. 25, 1951. Class 38.

555,972. Printed Labels. Tompkins' Label Service, Philadelphia, Pa.
Filed Jan. 13, 1951, Serial No. 608,773. Published Dec. 25, 1951. Class 38.

555,973. Whiskey. Bellows & Company, Inc., New York, N. Y.
Filed Jan. 16, 1951, Serial No. 608,808. Published Oct. 30, 1951. Class 49.

555,974. Whiskey. Bellows & Company, Inc., New York, N. Y.
Filed Jan. 16, 1951, Serial No. 608,812. Published Oct. 30, 1951. Class 49.

555,975. Perfumes, Toilet Waters, Perfume Oil, and Toilet Cream. Syntomatic Corporation, New York, N. Y.
Filed Jan. 19, 1951, Serial No. 609,009. Published Nov. 13, 1951. Class 51.

555,976. Coasters in the Nature of Blotter Tablets fo. Use Under Beverage Glasses. George D. Champion, doing business as Champion Dry Coaster Co., Cincinnati, Ohio.
Filed Jan. 20, 1951, Serial No. 609,026. Published Dec. 11, 1951. Class 37.

555,977. Alcoholic Beverage—Namely, Whiskey. Gallagher & Burton, Inc., Bristol, Pa.
Filed Jan. 20, 1951, Serial No. 609,034. Published Oct. 30, 1951. Class 49.

555,978. Wines. Madrone Vineyards, doing business as Almaden-Madrone Vineyards, Madrone, Calif.
Filed Jan. 20, 1951, Serial No. 609,038. Published Oct. 30, 1951. Class 47.

555,979. Wines. Madrone Vineyards, doing business as Almaden-Madrone Vineyards, Madrone, Calif.
Filed Jan. 20, 1951, Serial No. 609,039. Published Oct. 30, 1951. Class 47.

555,980. Wines. Madrone Vineysrds, doing business as Almaden-Madrone Vineyards, Madrone, Calif.
Filed Jan. 20, 1951, Serial No. 609,040. Published Oct. 30, 1951. Class 47.

555,981. Wines. Madrone Vineyards, doing business as Almaden-Madrone Vineyards, Madrone, Calif.
Filed Jan. 20, 1951, Serial No. 609,041. Published Oct. 30, 1951. Class 47.

555,982. Periodical. North American Aviation, Inc., Los Angeles, Calif.
Filed Jan. 23, 1951 Serial No. 609,138. Published Dec. 18, 1951. Class 38.

555,983. Women's and Children's Shorts, Slacks, Blouses, Skirts, and Women's Service Dresses. Betty Brooks Co., Huntington Park, Calif.
Filed Jan. 24, 1951, Serial No. 609,162. Published Dec. 18, 1951. Class 39.

555,984. Medicated Foot Cream. Dione Associates, Hollywood, Calif.
Filed Jan. 24, 1951, Serial No. 609,169. Published Nov. 6, 1951. Class 18.

555,985. All-Purpose Lubricating Grease. The Standard Oil Company, Cleveland, Ohio.
Filed Jan. 26, 1951, Serial No. 609,322. Published Nov. 6, 1951. Class 15.

555,986. Wines. Wine Growers Guild, Lodi, Calif.
Filed Jan. 26, 1951, Serial No. 609,327. Published Dec. 18, 1951. Class 47.

555,987. Men's and Boys' Negligee Shirts, Neckties, Sport Coats, Suits, Slacks, Overcoats, Pajamas, One and Two-Piece Underwear. Cripps Mens Wear, Inc., New York, N. Y.
Filed Jan. 30, 1951, Serial No. 609,398. Published Dec. 11, 1951. Class 39.

555,988. Dressed Poultry and Poultry Products—Namely, Frozen Dressed Turkeys, Frozen Turkey Pie, and Frozen Turkey a la King. Nagel Brothers, La Grange, Ill.
Filed Feb. 1, 1951, Serial No. 609,492. Published Dec. 18, 1951. Class 46.

555,989. Champagne. Sovereign Importers, Ltd., New York, N. Y.
Filed Feb. 1, 1951, Serial No. 609,497. Published Nov. 27, 1951. Class 47.

555,990. Preparation for External Application for Use in Relief of Skin Irritations. W. A. Tompkins, Thomasville, Ala.
Filed Feb. 1, 1951, Serial No. 609,518. Published Nov. 13, 1951. Class 18.

555,991. Printing Paper. Tileston and Hollingsworth Company, Boston, Mass.
Filed Feb. 2, 1951, Serial No. 609,572. Published Dec. 4, 1951. Class 37.

555,992. Printing Paper. Tileston and Hollingsworth Company, Boston, Mass.
Filed Feb. 2, 1951, Serial No. 609,573. Published Dec. 4, 1951. Class 37.

555,993. Section of a Periodical. McGraw-Hill Publishing Company, Inc., New York, N. Y.
Filed Feb. 5, 1951, Serial No. 609,656. Published Dec. 11, 1951. Class 38.

555,994. Ladies' Dresses. Mattio Kaplan & Son, Inc., New York, N. Y.
Filed Feb. 6, 1951, Serial No. 609,684. Published Dec. 18, 1951. Class 39.

555,995. Perfume in Solid and Liquid Form. Nicholas von Guggenberg, doing business as Zanzar & Company, Brentwood, Mo.
Filed Feb. 9, 1951, Serial No. 609,894. Published Nov. 6, 1951. Class 51.

555,996. Buttons, Hat Ornaments, Cuff-Links, and Tie-Pins and Clasps, All Made of Non-Precious Materials. Happé Products Limited, London, England.
Filed Feb. 12, 1951, Serial No. 609,973. Published Dec. 25, 1951. Class 40.

55,997. Beers, Ales, and Stouts. Hydes' Anvil Brewery Limited, Manchester, England.
Filed Feb. 12, 1951, Serial No. 609,977. Published Nov. 20, 1951. Class 48.

555,998. Magazine. New York Herald Tribune Inc., New York, N. Y.
Filed Feb. 12, 1951, Serial No. 609,980. Published Dec. 11, 1951. Class 38.

555,999. Comic Strips Published in Daily and Sunday Newspapers. NEA Service, Inc., Cleveland, Ohio.
Filed Feb. 13, 1951, Serial No. 610,018. Published Dec. 18, 1951. Class 38.

556,000. Whiskey. Joseph S. Finch and Company, doing business as The Sam Thompson Pure Rye Distilling Co., New York, N. Y.
Filed Feb. 15, 1951, Serial No. 610,125. Published Nov. 27, 1951. Class 49.

556,001. Canned Vegetables. Draper Brothers Inc., Frederica, Del.
Filed Feb. 17, 1951, Serial No. 610,203. Published Dec. 11, 1951. Class 46.

556,002. Curved Floor Squeegees, Straight Floor Squeegees, Curved Floor Brushes, and Straight Floor Brushes. James M. Oberti, doing business as Oberti Manufacturing Company, San Francisco, Calif.
Filed Feb. 17, 1951, Serial No. 610,225. Published Nov. 6, 1951. Class 29.

556,003. Nonalcoholic, Maltless Beverages Sold as Soft Drinks, and Syrups and Extracts for Making the Same. Nehi Corporation, Columbus, Ga.
Filed Feb. 19, 1951, Serial No. 610,293. Published Nov. 6, 1951. Class 45.

556,004. Publications—Namely, Books, Periodicals, Pamphlets, House Organs, and News Reports. National Spiritual Assembly of the Baha'is of the United States, Wilmette, Ill.
Filed Feb. 23, 1951, Serial No. 610,452. Published Dec. 11, 1951. Class 38.

556,005. Toilet Tissue. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Feb. 26, 1951, Serial No. 610,511. Published Nov. 13, 1951. Class 37.

556,006. Toilet Tissue. Crown Zellerbach Corporation, San Francisco, Calif.
Filed Feb. 26, 1951, Serial No. 610,512. Published Nov. 13, 1951. Class 37.

556,007. Watches, Watch Movements, and Parts of Watches. The Ball Company, Chicago, Ill.
Filed Feb. 28, 1951, Serial No. 610,608. Published Nov. 13, 1951. Class 27.

556,008. Toilet Preparations—Namely, Talcum Powder, Cologne, and Hand Lotion. Girl Scouts of the United States of America, New York, N. Y.
Filed Mar. 1, 1951, Serial No. 610,682. Published Nov. 6, 1951. Class 51.

556,009. Periodical Published Monthly. Richard H. Porter, doing business as The United Safety Service, Chicago, Ill.
Filed Mar. 1, 1951, Serial No. 610,713. Published Dec. 25, 1951. Class 38.

556,010. Writing Paper and Mailing Envelopes. Puritan Stationery Company, Inc., Philadelphia, Pa.
Filed Mar. 1, 1951, Serial No. 610,715. Published Nov. 13, 1951. Class 37.

556,011. Men's and Boys' Trousers and Slacks. H. Siegfried & Sons, Inc., St. Louis, Mo.
Filed Mar. 3, 1951, Serial No. 610,805. Published Nov. 27, 1951. Class 39.

556,012. Lawn, Garden, and Farm Seed. Chesmore Seed Co., St. Joseph, Mo.
Filed Mar. 5, 1951, Serial No. 610,832. Published Nov. 20, 1951. Class 1.

556,013. Lawn, Garden, and Farm Seed. Chesmore Seed Co., St. Joseph, Mo.
Filed Mar. 5, 1951, Serial No. 610,833. Published Nov. 20, 1951. Class 1.

556,014. Liniment. Guy T. Funk, Winston-Salem, N. C.
Filed Mar. 6, 1951, Serial No. 610,899. Published Nov. 6, 1951. Class 18.

556,015. Dental Impression Trays for Use by Dentists in Supporting Dental Impression Materials. The L. D. Caulk Company, Milford, Del.
Filed Feb. 15, 1951, Serial No. 611,056. Published Nov. 20, 1951. Class 44.

556,016. Medicinal Preparation for the Treatment of Headaches, Neuralgia, Muscular Soreness, and the Common Cold. Ferris & Ferris, doing business under the name and style of The Soovain Co., San Diego, Calif.
Filed Mar. 9, 1951, Serial No. 611,083. Published Nov. 6, 1951. Class 18.

556,017. Medicinal Preparation in Capsule Form for Treatment of Obesity. The Mara Laboratories, Inc., Harrison, N. J.
Filed Mar. 13, 1951, Serial No. 611,231. Published Nov. 6, 1951. Class 18.

556,018. Beer. Pacific Brewing & Malting Co., San Francisco, Calif.
Filed Mar. 13, 1951, Serial No. 611,237. Published Dec. 18, 1951. Class 48.

556,019. Medicinal Hormone Preparation. Laboratoires Francais de Chimiotherapie, Paris, France.
Filed Mar. 14, 1951, Serial No. 611,284. Published Nov. 6, 1951. Class 18.

556,020. Products Used as Mixing Ingredients in Poultry, Livestock, and Other Animal Feeds and Containing Vitamin B_{12}. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 14, 1951, Serial No. 611,314. Published Nov. 13, 1951. Class 18.

556,021. Products Used as Mixing Ingredients in Poultry, Livestock, and Other Animal Feeds and Containing Vitamin B_{12}. Schenley Laboratories, Inc., New York, N. Y.
Filed Mar. 14, 1951, Serial No. 611,315. Published Nov. 6, 1951. Class 18.

556,022. Artists' Brushes. Hans M. Rosen, New York, N. Y.
Filed Mar. 17, 1951, Serial No. 611,492. Published Dec. 4, 1951. Class 29.

556,023. Women's and Girls' Wearing Apparel—Namely, Dresses, Bras, Outer Shorts, Slacks, Pedal Pushers, Skirts, Jackets, and Hats. Foster-Hochberg Manufacturing Company, Inc., Seattle, Wash.
Filed Mar. 19, 1951, Serial No. 611,515. Published Dec. 18, 1951. Class 39.

556,024. Saw Gages—Namely, Rip Gages and Miter Gages, Etc. Rockwell Manufacturing Company, Pittsburgh, Pa.
Filed Mar. 19, 1951, Serial No. 611,541. Published Nov. 20, 1951. Class 26.

556,025. Weekly Periodical Publication. Boyme and Sherman, Dayton, Ohio.
Filed Mar. 21, 1951, Serial No. 611,597. Published Dec. 25, 1951. Class 38.

556,026. Liquid Hair Straightener and a Liquid Hair Rinse Lotion. Glo-An Products, Inc., West Caldwell, N. J.
Filed Mar. 21, 1951, Serial No. 611,606. Published Nov. 13, 1951. Class 51.

556,027. Vitamin Capsules and Tablets. Jefferson Pharmacal Company, Detroit, Mich.
Filed Mar. 22, 1951, Serial No. 611,647. Published Nov. 13, 1951. Class 18.

556,028. Packaging and Wrapping Papers. Minnesota and Ontario Paper Company, Minneapolis, Minn.
Filed Mar. 22, 1951, Serial No. 611,650. Published Dec. 4, 1951. Class 37.

556,029. Preparation for Use in the Treatment of Dermatological Conditions. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Mar. 22, 1951, Serial No. 611,660. Published Nov. 13, 1951. Class 18.

556,030. Bottled Wines. The Superior Beverage Company, Youngstown, Ohio.
Filed Mar. 22, 1951, Serial No. 611,664. Published Nov. 27, 1951. Class 47.

556,031. Men's Suits and Jackets. Brand of Texas, Inc., Laredo, Tex.
Filed Mar. 23, 1951, Serial No. 611,681. Published Dec. 11, 1951. Class 39.

556,032. Glycerine Tablets for Relief of Coughs Due to Common Colds, Also Dry Throat, Hoarseness, and Minor Throat Irritations Caused by Smoking or Over-Use of the Voice. Pine Bros. Inc., Philadelphia, Pa.
Filed Mar. 26, 1951, Serial No. 611,807. Published Nov. 13, 1951. Class 18.

556,033. Men's and Boys' Pajamas. Lubin-Weeker Co., Inc., New York, N. Y.
Filed Mar. 27, 1951, Serial No. 611,847. Published Dec. 11, 1951. Class 39.

556,034. Monthly Magazine. Thomas Dreier, St. Petersburg, Fla.
Filed Mar. 30, 1951, Serial No. 612,007. Published Dec. 11, 1951. Class 38.

556,035. Newspaper Column. The McNaught Syndicate, Inc., New York, N. Y.
Filed Mar. 30, 1951, Serial No. 612,025. Published Dec. 4, 1951. Class 38.

556,036. Brassières, Girdles, and Combination Brassières and Corsets Made of Textile, Netted, Knitted, Elastic, and All-Rubber Fabric. Graceform-Camlin Corset Co., Inc., New York, N. Y.
Filed Mar. 31, 1951, Serial No. 612,070. Published Dec. 18, 1951. Class 39.

556,037. Toilet Tissue of All Kinds. White-Washburne Company, Inc., Hinsdale, N. H.
Filed Mar. 31, 1951, Serial No. 612,100. Published Dec. 18, 1951. Class 37.

556,038. Ladies' and Misses' Brassières, Corsets, Corselettes, and Garter Belts. Corona Corset Corp., New York, N. Y.
Filed Apr. 3, 1951, Serial No. 612,156. Published Dec. 18, 1951. Class 39.

556,039. Packings and Gaskets for Pipe Couplings and Clamps. Dresser Industries, Inc., Dallas, Tex.
Filed Apr. 6, 1951, Serial No. 612,314. Published Dec. 25, 1951. Class 35.

556,040. Non-Electric Cable Fittings—Namely, Socket and Wedge Assemblies Employed in Drag, Dump, and Hoist Line Rigging. Electric Steel Foundry, Portland, Oreg.
Filed Apr. 6, 1951, Serial No. 612,317. Published Dec. 25, 1951. Class 13.

556,041. Gift Wrapping Paper. Norcross, Inc., New York, N. Y.
Filed Apr. 6, 1951, Serial No. 612,344. Published Dec. 25, 1951. Class 37.

556,042. Misses' and Ladies' Frocks. Rice-Stix, Inc., St. Louis, Mo.
Filed Apr. 7, 1951, Serial No. 612,375. Published Dec. 18, 1951. Class 39.

556,043. Publication Issued at Least Weekly Relating to Securities and Commodities. E. S. C. Coppock, San Antonio, Tex.
Filed Apr. 9, 1951, Serial No. 612,387. Published Dec. 25, 1951. Class 38.

556,044. Colored Pencils. Eberhard Faber Pencil Company, Brooklyn, N. Y.
Filed Apr. 9, 1951, Serial No. 612,391. Published Dec. 25, 1951. Class 37.

556,045. Printing Paper; Writing Paper; Box and Book Cover Paper; Enamel Paper for Boxes, Folders, Pamphlets, and Books; Tissue Paper, Toilet Paper, Paper Towels, and Paper Napkins. The Central Ohio Paper Company, Columbus, Ohio.
Filed Apr. 10, 1951, Serial No. 612,442. Published Dec. 25, 1951. Class 37.

556,046. Magazine Feature, Section, or Department. Hearst Magazines Inc., now, by merger, The Hearst Corporation, New York, N. Y.
Filed Apr. 13, 1951, Serial No. 612,614. Published Dec. 4, 1951. Class 38.

556,047. Frozen Fresh Vegetables—Namely, Peas. Gouley N. Burcham, doing business as Gouley Burcham Company, Los Angeles, Calif.
Filed Apr. 14, 1951, Serial No. 612,650. Published Dec. 18, 1951. Class 46.

556,048. Synthetic Yarns. The Ensign-Bickford Co., Simsbury, Conn.
Filed Apr. 14, 1951, Serial No. 612,652. Published Dec. 18, 1951. Class 43.

556,049. Substantially Colorless Fluorescent Synthetic Organic Chemicals. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Apr. 17, 1951, Serial No. 612,722. Published Dec. 18, 1951. Class 6.

556,050. Rope. Columbian Rope Company, Auburn, N. Y.
Filed Apr. 17, 1951, Serial No. 612,731. Published Dec. 18, 1951. Class 7.

556,051. Controlled Volume Measuring Pump for Continuous Automatic Concentration Control. Milton Roy Company, Philadelphia, Pa.
Filed Apr. 18, 1951, Serial No. 612,827. Published Nov. 20, 1951. Class 26.

556,052. Insecticides. Drac Manufacturing Co., New Blaine, Ark.
Filed Apr. 23, 1951, Serial No. 612,995. Published Dec. 18, 1951. Class 6.

556,053. Magazine Published Periodically and for a Cartoon Strip Published in a Series in Periodicals. L. L. Publishing Co., Inc., New York, N. Y.
Filed Apr. 23, 1951, Serial No. 613,009. Published Dec. 11, 1951. Class 38.

556,054. Poultry Mash and Dairy and Hog Feeds. Nebraska Consolidated Mills Company, Omaha, Nebr.
Filed Apr. 24, 1951, Serial No. 613,081. Published Dec. 18, 1951. Class 46.

556,055. Section of Periodically Issued Reports of Legislative Activities. Edward Thompson Company, Brooklyn, N. Y.
Filed Mar. 29, 1951, Serial No. 613,112. Published Dec. 18, 1951. Class 38.

556,056. Women's and Misses' Dresses. Jordan Marsh Company, Boston, Mass.
Filed Apr. 25, 1951, Serial No. 613,134. Published Dec. 18, 1951. Class 39.

556,057. Chemical for Use as a Dyestuff Assistant for Synthetic Fibers and as a Antioxidant for Rubber Products. Gallowhur Chemical Corporation, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,222. Published Dec. 18, 1951. Class 6.

556,058. Girdles. Bestform Foundations, Inc., New York, N. Y.
Filed Apr. 28, 1951, Serial No. 613,289. Published Dec. 18, 1951. Class 39.

556,059. Cartoons. Victor J. Herman, doing business as Vic Herman, New York, N. Y.
Filed Apr. 28, 1951, Serial No. 613,294. Published Dec. 11, 1951. Class 38.

556,060. Magazine Published Periodically and for a Cartoon Strip Published in a Series in Periodicals. Fables Publishing Co., Inc., New York, N. Y.
Filed Apr. 30, 1951, Serial No. 613,324. Published Dec. 11, 1951. Class 38.

556,061. Series of Cartoons or Comic Strips. The Hearst Corporation, New York, N. Y.
Filed May 3, 1951, Serial No. 613,450. Published Dec. 25, 1951. Class 38.

556,062. Tube Connectors Including Return Bend Fittings, Etc. Key Company, East St. Louis, Ill.
Filed May 3, 1951, Serial No. 613,464. Published Dec. 25, 1951. Class 13.

556,063. Ladies' Foundation Garments. Crescent Corset Company, Inc., Cortland, N. Y.
Filed May 4, 1951, Serial No. 613,502. Published Dec. 18, 1951. Class 39.

556,064. Nails. Nichols Wire & Aluminum Co., Davenport, Iowa.
Filed May 4, 1951, Serial No. 613,520. Published Dec. 25, 1951. Class 13.

556,065. Brassières. Beau-Bra Foundations, Inc., Jersey City, N. J.
Filed May 5, 1951, Serial No. 613,554. Published Dec. 18, 1951. Class 39.

556,066. Frozen Concentrated Grape Juice. The Welch Grape Juice Company, Westfield, N. Y.
Filed Mar. 16, 1951, Serial No. 613,579. Published Dec. 18, 1951. Class 45.

556,067. Corsets, Corselets, Girdles, Bandeaux, Panties, Brassières, and Foundation Garments. Vanity Corset Company, Inc., New York, N. Y.
Filed May 9, 1951, Serial No. 613,687. Published Dec. 18, 1951. Class 39.

556,068. Girdles, Corsets, and Brassières. Vivette Foundations, Inc., New York, N. Y.
Filed May 9, 1951, Serial No. 613,688. Published Dec. 18, 1951. Class 39.

556,069. Rafter Framing Squares, Try Squares, and All Squares; Wood, Metal, and Composition, Folding and Non-Folding Rules; Marking Gauges; Metal and Fabric Measuring Tapes; Carpenters' and Mechanics' Levels and Plumbs; and a Combination Inside and Outside Try Square, Depth Gauge, Ruler, Level, and Plumb. Aldens, Inc., Chicago, Ill.
Filed May 10, 1951, Serial No. 613,697. Published Nov. 20, 1951. Class 26.

556,070. Dresses for Women, Misses, and Children. G. & L. Manufacturing Co., Inc., Boston, Mass.
Filed May 10, 1951, Serial No. 613,707. Published Dec. 18, 1951. Class 39.

556,071. Newspaper and Magazine Feature or Column. The Register and Tribune Company, Des Moines, Iowa.
Filed May 12, 1951, Serial No. 613,823. Published Dec. 25, 1951. Class 38.

556,072. Cartoon Section of Newspapers and Other Publications. The Register and Tribune Company, Des Moines, Iowa.
Filed May 12, 1951, Serial No. 613,824. Published Dec. 25, 1951. Class 38.

556,073. Disinfectant Material for Sterilizing Toilet Bowls. Kinnard, Incorporated, Little Falls, N. J.
Filed May 21, 1951, Serial No. 614,151. Published Dec. 18, 1951. Class 6.

556,074. Aluminum Sauce Pans and Cooking Pots and Fryers. Kewaskum Utensil Company, Kewaskum, Wis., now by change of name Regal Ware, Inc.
Filed May 23, 1951, Serial No. 614,255. Published Dec. 25, 1951. Class 13.

556,075. Metal Fastening Devices—Namely, Nuts and Bolts, Nuts, Nut Locks, Electrical Shield Can Fasteners, Electrical Coil Tube Clips or Fasteners, Electrical Coil Tube Caps, and Clamps for Ignition Harness. The Palnut Company, Irvington, N. J.
Filed May 29, 1951, Serial No. 614,510. Published Dec. 25, 1951. Class 13.

556,076. Bluing Compound—Water Softener. Burlington Soap Company, Burlington, Iowa.
Filed May 31, 1951, Serial No. 614,538. Published Dec. 18, 1951. Class 6.

556,077. Tire Chains. Campbell Chain Company, York, Pa.
Filed June 2, 1951, Serial No. 614,649. Published Dec. 18, 1951. Class 13.

556,078. Plumbing, Steamfitting, Gas Fitting, and Air and Gas Valves, and Regulator Valves. The Safety Car Heating and Lighting Company, Inc., New York, N. Y.
Filed June 11, 1951, Serial No. 615,026. Published Dec. 25, 1951. Class 13.

556,079. Netting and Screening Materials in the Nature of Screen Cloth Composed of Filaments of Natural and Artificial Resins and Plastics. Flex-O-Glass, Inc., Chicago, Ill.
Filed June 19, 1951, Serial No. 615,377. Published Dec. 25, 1951. Class 13.

556,080. Textile Fabrics in the Piece Made of Synthetic Fibers. Burlington Mills Corporation, Greensboro, N. C.
Filed July 13, 1951, Serial No. 616,410. Published Dec. 25, 1951. Class 42.

556,081. Woolen Piece Goods. A. D. Juilliard & Co., Inc., New York, N. Y.
Filed July 14, 1951, Serial No. 616,487. Published Dec. 25, 1951. Class 42.

556,082. Woolen Piece Goods. A. D. Juilliard & Co., Inc., New York, N. Y.
Filed July 14, 1951, Serial No. 616,496. Published Dec. 25, 1951. Class 42.

556,083. Woolen Piece Goods. A. D. Juilliard & Co., Inc., New York, N. Y.
Filed July 14, 1951, Serial No. 616,498. Published Dec. 25, 1951. Class 42.

556,084. Textile Carpets and Rugs. C. H. Masland & Sons, Carlisle, Pa.
Filed July 23, 1951, Serial No. 616,798. Published Dec. 25, 1951. Class 42.

556,085. Ophthalmic and Protection Lenses. Willson Products, Inc., Reading, Pa.
Filed July 31, 1951, Serial No. 617,172. Published Nov. 20, 1951. Class 26.

Service Marks

556,086. Services Rendered by a Vocal Group Through the Medium of Radio Broadcasts Directly and by Means of Recordings. Voice of Prophecy, Inc., Washington, D. C., also operating as The Pacific Union Conference, Glendale, Calif.
Filed Mar. 15, 1948, Serial No. 552,022. Published Dec. 18, 1951. Class 107.

556,087. Giving Dance Instructions. Dale Dance Studios, Inc., New York, N. Y., assignee of Dale Dance Studios.
Filed Apr. 20, 1948, Serial No. 555,059. Published Dec. 18, 1951. Class 107.

556,088. Accounting and Bookkeeping Services Rendered to Gasoline Service Station Owners. Serv-A-Station, Inc., Los Angeles, Calif.
Filed June 12, 1948, Serial No. 559,122. Published Dec. 18, 1951. Class 101.

556,089. Advertising Services—Namely, the Formulation and Preparation of Advertising Copy, Literature, and Publications; the Formulation and Preparation of Advertising Displays, Pictorial Advertising, and the Publication and Circulation of Same; and the Preparation of Catalogs, Manuals, and Instructional Literature. Stemar Company, Inc., Chicago, Ill.
Filed Aug. 21, 1948, Serial No. 563,827. Published Dec. 18, 1951. Class 101.

556,090. Structural Contracting Services—Namely, Building and Repairing Cement Structures. Cement Gun Company, Allentown, Pa.
Filed Sept. 23, 1949, Serial No. 585,215. Published Dec. 18, 1951. Class 103.

556,091. Radio Broadcasting Services. Mutual Broadcasting System, Inc., New York, N. Y.
Filed Apr. 10, 1951, Serial No. 612,466. Published Dec. 25, 1951. Class 104.

556,092. Radio Broadcasting Services. Mutual Broadcasting System, Inc., New York, N. Y.
Filed Apr. 10, 1951, Serial No. 612,467. Published Dec. 25, 1951. Class 104.

Certification Mark

556,093. Wine. Istituto Nazionale per il Commercio Estero, Rome, Italy.
Filed July 8, 1948, Serial No. 560,895. Published Dec. 18, 1951. Class 47.

Collective Mark

556,094. Stimulating and Maintaining Interest in the Preservation and Encouragement of Barber Shop Quartet Singing by the Members Holding Local and Nationwide Contests and Giving Concerts. The Society for the Preservation and Encouragement of Barber Shop Quartet Singing in America, Inc., Detroit, Mich.
Filed Feb. 8, 1950, Serial No. 592,168. Published Dec. 25, 1951. Class 100.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

556,095. (Class 50. Merchandise Not Otherwise Classified.) James H. Ferguson, doing business under the name of American Boy Aviators, Portland, Oreg. Original filed, act of 1905, Apr. 24, 1946; amended to application under act of 1946, Supplemental Register, June 4, 1948, Serial No. 500,799.



For Felt Insignia.
Claims use since Jan. 10, 1946.

556,096. (Class 2. Receptacles.) Vincent A. Kasin, doing business as V. A. Kasin Molded Products, Houston, Tex. Original filed, act of 1905, Jan. 27, 1947; amended to application under act of 1946, Principal Register, June 28, 1951; amended to Supplemental Register, Jan. 2, 1952, Serial No. 516,418.



For Condiment Holders Made in Whole and in Part From Plastic Materials.
Claims use since Dec. 19, 1946.

556,097. (Class 28. Jewelry and Precious-Metal Ware.) The R. Wallace & Sons Manfg. Co., Wallingford, Conn. Original filed, act of 1946, Principal Register, Sept. 12, 1947; amended to application, Supplemental Register, Nov. 3, 1950, Serial No. 534,402.

THIRD DIMENSION BEAUTY

For Sterling Silver Flatware.
Claims use since January 1939.

556,098. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) H. D. Hume Company, Mendota, Ill. Filed Oct. 30, 1947, Serial No. 541,793.

CUT LODE

The word "Cut" is disclaimed.
For Harvesting Machine Embodying a Reel, a Cutter Bar and an Elevating Conveyor for Cutting and Loading Crops.
Claims use since May 1, 1945.

556,099. (Class 44. Dental, Medical, and Surgical Appliances.) The Henkel-Clauss Company, Fremont, Ohio, and New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 10, 1948; amended to application, Supplemental Register, Jan. 2, 1952, Serial No. 546,701.

Finger Tip Beauty

For Nail Files.
Claims use since 1930.

556,100. (Class 46. Foods and Ingredients of Foods.) Skandiakonserv, Hugo Hallgrens Konservfabriker Aktiebolag, Stockholm, Sweden. Original filed, act of 1946, Principal Register, Feb. 5, 1948; amended to application, Supplemental Register, Oct. 21, 1949, Serial No. 548,873.

SKANDIA

Applicant claims ownership of Registration No. 443,731.
For Canned Fish Products—Namely, Fish Balls, Sardines, Sprats, Fish Tidbits, and Herrings.
Claims use since Sept. 20, 1946.

556,101. (Class 39. Clothing.) Scotch Tailors, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 2, 1948; amended to application, Supplemental Register, Feb. 24, 1951, Serial No. 551,051.

Scotch TAILORS IN

Applicant claims ownership of Registration No. 225,624.
For Men's Suits, Top Coats, Overcoats, Trousers, Vests, and Ladies' Skirts, Jackets, Coats and Suits.
Claims use since Jan. 1, 1942.

556,102. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The De Laval Separator Company, New York, N. Y. Filed Apr. 10, 1948, Serial No. 554,303.

AIR-TIGHT

For Centrifuges.
Claims use since June 27, 1946.

556,103. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) E. D. Jones & Sons Company, Pittsfield, Mass. Original filed, act of 1946, Principal Register, Apr. 16, 1948; amended to application, Supplemental Register, Oct. 25, 1950, Serial No. 554,793.

GREY-LOCK

For Jordan Machines and Fillings Therefor.
Claims use since June 1, 1927.

556,104. (Class 46. Foods and Ingredients of Foods.) Rogers Brothers Seed Company, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 8, 1948; amended to application, Supplemental Register, Aug. 17, 1951, Serial No. 556,697.

CREEP-FEED

The word "Feed" is disclaimed. Applicant claims ownership of Registration No. 358,006.
For Sheep Feed Consisting of Barley, Oats, Salt, Iodine, Cod-Liver Oil, Yeast and Molasses.
Claims use since Feb. 1, 1936.

556,105. (Class 39. Clothing.) I. Schneierson & Sons, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 4, 1948; amended to application, Supplemental Register, Dec. 27, 1951, Serial No. 558,515.

Loom-cloth

Applicant claims ownership of Registration No. 288,828.
For Ladies' Chemises, Princess Slips, Step-Ins, Nightgowns, Pajamas and Step-In Drawers of a Textile Fabric.
Claims use since July 10, 1929.

556,106. (Class 39. Clothing.) I. Schneierson & Sons, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 4, 1948; amended to application, Supplemental Register, Dec. 12, 1951, Serial No. 558,516.

Loom-krepe

Applicant claims ownership of Registration No. 287,311.
For Ladies' Chemises, Princess Slips, Step-Ins, Nightgowns, Pajamas and Step-In Drawers of a Textile Fabric.
Claims use since July 10, 1929.

556,107. (Class 39. Clothing.) I. Schneierson & Sons, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 4, 1948; amended to application, Supplemental Register, Dec. 14, 1951, Serial No. 558,517.

Loom-suede

Applicant claims ownership of Registration No. 341,034.
For Ladies' Chemises, Princess Slips, Bloomers, Step-Ins and Nightgowns of a Textile Fabric.
Claims use since Sept. 20, 1935.

556,108. (Class 39. Clothing.) I. Schneierson & Sons, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 10, 1948; amended to application, Supplemental Register, Dec. 12, 1951, Serial No. 558,934.

Kustom-Fit

Applicant claims ownership of Registration No. 345,341.
For Ladies' and Children's Princess Slips, Nightgowns, Pajamas, Bloomers, Step-Ins, Step-In Drawers, and Chemises and Children's Dresses of a Textile Fabric.
Claims use since Mar. 4, 1936.

556,109. (Class 29. Brooms, Brushes, and Dusters.) Lawrence McLean, doing business as McLean's Band Shop, Kansas City, Mo. Original filed, act of 1946, Principal Register, June 14, 1948; amended to application, Supplemental Register, July 16, 1951, Serial No. 559,167.

DUBL-REED-KLEEN

For Elongated Brush-Like Cloth Swabs for Cleaning the Upper Joints of Oboes and English Horns and the Bocal (Mouth Pipe) of Bassoons.
Claims use since June 11, 1948.

556,110. (Class 39. Clothing.) I. Schneierson & Sons, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 10, 1948; amended to application, Supplemental Register, Dec. 27, 1951, Serial No. 558,936.

Loom-Satin

Applicant claims ownership of Registration No. 367,709.
For Ladies' Chemises, Princess Slips, Bloomers, Step-Ins and Nightgowns of a Textile Fabric.
Claims use since Dec. 16, 1937.

556,111. (Class 16. Paints and Painters' Materials.) Atlas Paint & Varnish Co., Inc., New York, N. Y. Filed July 17, 1948, Serial No. 561,607.

"YOU NAME IT--
We Have It"

For Exterior and Interior Ready Mixed Paints, Enamels, and Paint or Similar Type Primers; Water Paints; Cement and Stucco Paints; Lacquer, Varnish, Wood, or Other Similar Type Stains; Paint Colors in Oil; Asphalt Paints; Screen Paints, Paste Paints, Aluminum Paint, Asphalt Paints, Oils Used as Ingredients or for Use in Paints, Varnishes, Enamels, and Other Similar Paint Products; Liquid or Chemical Removers, Paint Driers, Paint Brush Cleaners, Powder and Paste Wall Tints, Ready Mixed White Lead Paints, Baking Enamels and Paint Pigments, Wood Fillers, Calcimines, Cold Water Paints, Turpentine for Painters' Use and Paint or Similar Type Sealers for Wood and Concrete.
Claims use since June 18, 1937.

556,112. (Class 39. Clothing.) General Sportwear Co., Inc., Ellenville, N. Y. Original filed, act of 1946, Principal Register, Aug. 20, 1948; amended to application, Supplemental Register, Oct. 19, 1950, Serial No. 563,782.

ULSTER

For Men's Trousers, Knickers, Breeches, Dress Shirts, Work Shirts, and Negligee Shirts; Women's Knickers, Gymnasium Bloomers, Middies, and Blouses, and Children's Creepers, Panty Dresses and Blouses.
Claims use since January 1924.

556,113. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Walter J. Cormay, Waltham, Mass. Original filed, act of 1946, Principal Register, Aug. 26, 1948; amended to application, Supplemental Register, Nov. 8, 1951, Serial No. 564,192.

EZE-WAY WHEEL IRONS

For Hand Appliance for Mounting and Demounting Automobile Wheels.
Claims use since Aug. 2, 1948.

556,114. (Class 2. Receptacles.) Sutherland Paper Company, Kalamazoo, Mich. Original filed, act of 1946, Principal Register, Sept. 10, 1948; amended to application, Supplemental Register, Nov. 19, 1951, Serial No. 564,977.

SNACK-BASKET

The drawing is lined for the color blue.
For Collapsible Trays or Cartons Formed of Paper Board.
Claims use since Aug. 25, 1948.

556,115. (Class 11. Inks and Inking Materials.) L. C. Smith & Corona Typewriters, Inc., Syracuse, N. Y. Original filed, act of 1946, Principal Register, Apr. 1, 1949; amended to application, Supplemental Register, Sept. 13, 1950, Serial No. 576,478.

"The Miller Line is Superfine"

Applicant claims ownership of Registration No. 191,240.
For Carbon Papers, Inked Ribbons and Stencil Inks for Typewriters and the Like.
Claims use since Feb. 25, 1920.

556,116. (Class 2. Receptacles.) Milprint, Inc., Milwaukee, Wis. Original filed, act of 1946, Principal Register, May 13, 1949; amended to application, Supplemental Register, Oct. 31, 1951, Serial No. 578,816.

SERV O TRAY

For Composite Packaging Containers Consisting of an Inner Commodity Receiving Tray-Like Cardboard Receptacle Surrounded by a Flexible Overwrap.
Claims use since Dec. 29, 1948.

556,117. (Class 1. Raw or Partly Prepared Materials.) Ferry-Morse Seed Co., Detroit, Mich. Filed June 3, 1949, Serial No. 579,921.

FERRY'S

For Better Gardens — Dated Seeds

The words "Dated Seeds" are disclaimed.
For Seeds—Namely, Vegetable, Flower and Grass Seeds.
Claims use since 1943.

556,118. (Class 3. Baggage, Animal Equipments, Portfolios and Pocketbooks.) Nathan Products Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, June 29, 1949; amended to application, Supplemental Register, Dec. 29, 1951, Serial No. 581,281.

PET-TOTER

For Hand Bags and Carrying Cases for Small Animals.
Claims use since May 10, 1948.

556,119. (Class 2. Receptacles.) Natco Products Corporation, Providence, R. I. Original filed, act of 1946, Principal Register, Aug. 20, 1949; amended to application, Supplemental Register, July 5, 1950, Serial No. 583,769.

Neverwet

For Waterproof Bags Formed of Plastic Material.
Claims use since Jan. 27, 1949.

556,120. (Class 50. Merchandise Not Otherwise Classified.) P. O. Moore, Inc., New York, N. Y. Filed Nov. 25, 1949, Serial No. 588,315.

VISIBLE INDEX KEY CONTROL SYSTEM

Applicant claims ownership of Registration No. 547,366.
For Permanent and Temporary Key Identification Tags.
Claims use since July 20, 1948.

556,121. (Class 46. Foods and Ingredients of Foods.) Cociana, Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Jan. 7, 1950; amended to application, Supplemental Register, Dec. 2, 1950, Serial No. 590,488.

ALLSORTS

For Candy.
Claims use since Nov. 23, 1949.

556,122. (Class 8. Smokers' Articles, Not Including Tobacco Products.) Evans Case Co., North Attleboro, Mass. Original filed, act of 1946, Principal Register, Feb. 4, 1950; amended to application, Supplemental Register, Dec. 6, 1951, Serial No. 591,983.

Evans in Advance

For Cigarette Cases and Pyrophoric Cigarette Lighters and Combination Cigarette Cases and Pyrophoric Cigarette Lighters.
Claims use since January 1948.

556,123. (Class 2. Receptacles.) Waltham Bag & Paper Company, Waltham, Mass. Original filed, act of 1946, Principal Register, Apr. 25, 1950; amended to application, Supplemental Register, Dec. 25, 1951, Serial No. 596,313.

PATTERNPRINT

For Bags, Boxes, and Cartons Made of Paper.
Claims use since May 13, 1949.

556,124. (Class 2. Receptacles.) Waltham Bag & Paper Company, Waltham, Mass. Original filed, act of 1946, Principal Register, Apr. 25, 1950; amended to application, Supplemental Register, Dec. 27, 1951, Serial No. 596,314.

TWEEDPRINT

For Bags, Boxes, and Cartons Made of Paper.
Claims use since June 1, 1948.

556,125. (Class 39. Clothing.) Lee I. Robinson Hosiery Mills, Inc., Philadelphia, Pa. Filed Apr. 26, 1950, Serial No. 596,362.

Robinson

For Women's Hosiery and Sweaters for Men and Women.
Claims use since January 1922.

556,126. (Class 30. Crockery, Earthenware, and Porcelain.) National Silver Company, New York, N. Y. Original filed, act of 1946, Principal Register, May 25, 1950; amended to application, Supplemental Register, Nov. 9, 1951, Serial No. 598,096.

EARLY AMERICAN

For Ceramic Dinnerware.
Claims use since Mar. 2, 1950.

556,127. (Class 51. Cosmetics and Toilet Preparations.) I. Posner, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 7, 1950; amended to application, Supplemental Register, June 8, 1951, Serial No. 598,752.

Tangl-out

For Liquid Preparation To Be Used When Combing the Hair To Eliminate Tangles and Prepare the Hair for Comfortable Easy Pressing.
Claims use since Jan. 10, 1950.

556,128. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) J. Rosenhols, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 29, 1950; amended to application, Supplemental Register, Oct. 1, 1951, Serial No. 599,976.

ULTRA-SET

For Rayon Piece Goods That Have Been Specially Chemically Treated.
Claims use since June 9, 1950.

556,129. (Class 6. Chemicals and Chemical Compositions.) Central Bottled Gas Co., Inc., Salem, Ill. Original filed, act of 1946, Principal Register, June 30, 1950; amended to application, Supplemental Register, July 3, 1951, Serial No. 600,030.

VAPUR-GAS

For Compressed Combustible Gas Sold for Heating and Illuminating Purposes, in Metal Containers.
Claims use since June 10, 1950.

556,130. (Class 51. Cosmetics and Toilet Preparations.) The Nestle-Le Mur Company, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 5, 1950; amended to application, Supplemental Register, Sept. 13, 1951, Serial No. 601,806.

COLORBASE

For Hair Rinses.
Claims use since June 29, 1950.

556,131. (Class 39. Clothing.) Gro Togs Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 7, 1950; amended to application, Supplemental Register, June 4, 1951, Serial No. 601,828.

Ever-Dri

For Infants' Overalls and Sunsuits.
Claims use since May 25, 1950.

556,132. (Class 46. Foods and Ingredients of Foods.) Shirriff's Limited, Toronto, Ontario, Canada. Original filed, act of 1946, Principal Register, Sept. 8, 1950; amended to application, Supplemental Register, June 4, 1951, Serial No. 603,313.

Shirriff's

Applicant claims ownership of Canadian Registration No. 57,135, dated May 16, 1933.
For Food Stuffs—Namely, Gelatine Desserts, Jelly Deserts, Prepared and Powdered Corn Starch Puddings, Marmalade, Jams, Jellies, Food and Dessert Flavoring Extracts, Baking Mixes for Making Bread, Biscuits, or Doughnuts, Cake Mixes—Namely, Powdered Products for White Cake, Chocolate Cake, and Gingerbread; Pie Filling—Namely, a Powdered Product of Sugar, Corn Starch and/or of Flour Base With the Addition of Flavoring Extract; and Extracts of Coloring for Foods and Desserts.

556,133. (Class 31. Filters and Refrigerators.) Schwartz Manufacturing Company, Two Rivers, Wis. Original filed, act of 1946, Principal Register, Oct. 13, 1950; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 604,863.

Perfection KOW-to-KAN

For Milk Filter Discs.
Claims use since July 15, 1950.

556,134. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) The Ullman Company, Inc., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Oct. 13, 1950; amended to application, Supplemental Register, July 2, 1951, Serial No. 604,871.

shelf-n-edge

For Shelf Lining and Edging Combination, Made of Plastic Film.
Claims use since Sept. 13, 1949.

556,135. (Class 50. Merchandise Not Otherwise Classified.) Joseph Krinick, Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Nov. 13, 1950; amended to application, Supplemental Register, Dec. 27, 1951, Serial No. 606,303.



For Detachable Kneeling Pads Which Can Be Affixed to the Knees To Protect the Knees While a Person Is Working on His Knees.
Claims use since September 1949.

556,136. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) L. H. Carufel Co., Bismarck, N. Dak. Original filed, act of 1946, Principal Register, Nov. 22, 1950; amended to application, Supplemental Register, Oct. 12, 1951, Serial No. 606,751.

4 in one

For Multi-Purpose Garden Hoe.
Claims use since Apr. 14, 1950.

556,137. (Class 1. Raw or Partly Prepared Materials.) Penn-Rillton Company, Irwin, Pa., and New York, N. Y. Filed Jan. 4, 1951, Serial No. 608,374.

SLICK-ON

Applicant claims ownership of Registration No. 278,902.
For Dry Carbonaceous and Graphitic Facings for Metal-Casting Molds.
Claims use since Oct. 1, 1928.

556,138. (Class 1. Raw or Partly Prepared Materials.) Penn-Rillton Company, Irwin, Pa., and New York, N. Y. Filed Jan. 4, 1951, Serial No. 608,375.

SPRAY-ON

Applicant claims ownership of Registration No. 278,901.
For Carbonaceous or Graphitic Liquid Facings for Sand Molds.
Claims use since Dec. 1, 1928.

556,139. (Class 46. Foods and Ingredients of Foods.) Lyndonville Canning Company, Inc., Lyndonville, N. Y. Original filed, act of 1946, Principal Register, Jan. 26, 1951; amended to application, Supplemental Register, Jan. 2, 1952, Serial No. 609,304.



The drawing is lined for green and hatched for gold and yellow, the yellow portion is the small strip at the bottom of the large panel. The words "Apple Sauce" are disclaimed. Applicant claims ownership of Registration No. 286,535.

For Canned Apple Sauce.

Claims use since Sept. 1, 1950.

556,140. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Farrington Texol Corporation, Walpole, Mass. Original filed, act of 1946, Principal Register, Feb. 2, 1951; amended to application, Supplemental Register, Nov. 29, 1951, Serial No. 609,544.

Fray-No

For Fabrics Made of Cotton, Rayon, Nylon, Silk and/or Combinations of the Same.

Claims use since Nov. 21, 1950.

556,141. (Class 46. Foods and Ingredients of Foods.) Yami Yogurt Products, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Apr. 28, 1951; amended to application, Supplemental Register, Dec. 5, 1951, Serial No. 613,315.



The word "Yogurt" is disclaimed. Applicant claims ownership of Registration No. 382,386.

For Milk Food—Namely, Yogurt and Flavored Yogurt.

Claims use since July 1, 1939.

556,142. (Class 28. Jewelry and Precious-Metal Ware.) Shields, Inc. of Attleboro, Mass., New York, N. Y. Original filed, act of 1946, Principal Register, May 4, 1951; amended to application, Supplemental Register, Jan. 5, 1952, Serial No. 613,528.

Shields
FIFTH AVENUE

For Gold-Plated Cuff Links, Tie Bars, Collar Pins, and Key Chains.

Claims use since March 1950.

556,143. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Formica Company, Cincinnati, Ohio. Filed May 12, 1951, Serial No. 613,809.

NOGLO

For Pulley Wheels Made of Laminated Plastic for Use in Aircraft.

Claims use since October 1949.

556,144. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Amsterdam Textiles, Inc., Amsterdam, N. Y. Filed May 31, 1951, Serial No. 615,519.



Applicant claims ownership of Registrations Nos. 288,580, 539,840 and others.

For Textile Rugs and Runners.

Claims use since July 5, 1949.

556,145. (Class 46. Foods and Ingredients of Foods.) Rudolph John Stenzel, doing business as R. Stenzel Pickle Products, San Leandro, Calif. Filed July 23, 1951, Serial No. 616,835.

"TICKLE TIM" TICKLES YOUR TASTE"

Applicant claims ownership of Registration No. 430,533.

For Bottled Pickles, Chili Peppers, Italian Style Peppers, Sweet Relish and Hamburger Relish Comprised of Cucumbers, Cauliflower, Peppers, Seasoning and Spices.

Claims use since Apr. 19, 1950.

Service Marks

556,146. (Class 105. Transportation and Storage.) Chicago and North Western Railway Company, Chicago, Ill. Filed July 7, 1947, Serial No. 528,051.

CHICAGO AND NORTH WESTERN SYSTEM

For Railway Freight and Passenger Transportation Services.

Claims use since Aug. 31, 1944.

556,147. (Class 106. Material Treatment.) Dee S. Casey, Tampa, Fla. Original filed, act of 1946, Principal Register, May 16, 1950; amended to application, Supplemental Register, Dec. 20, 1951, Serial No. 597,510.

Name-O-Graph

For Painting Individual Names on Articles of Clothing Such as Neckties and Scarves.

Claims use since July 26, 1948.

TRADE-MARK REGISTRATIONS RENEWED

37,640. "JN BARDOU" ETC. AND DESIGN LINED FOR RED AND YELLOW. Registered Jan. 14, 1902. Maison Pierre Bardou Job. Re-renewed Jan. 14, 1952, to Societe Job, Anciens Etablissements Bardou-Job & Paulihac, Perpignan, France, a corporation organized under the laws of France. Cigarette-Papers. Class 8.

83,332. MIKADO. Registered Sept. 5, 1911. Frank Y. Hashiba, New York, N. Y. Re-renewed Sept. 5, 1951, to Frank Y. Hashiba, Alton, R. I. Table Sauce. Class 46.

84,232. "HOSTETTER'S" ETC. AND REPRESENTATION OF LABEL. Registered Nov. 21, 1911. The Hostetter Company. Re-renewed Nov. 21, 1951, to Hostetter Corporation, Pittsburgh, Pa., a corporation of Maryland. Stomach-Bitters. Class 18.

84,781. KNICKERBOCKER. Registered Jan. 2, 1912. Knickerbocker Case Company, Chicago, Ill., a corporation of Illinois. Re-renewed Jan. 2, 1952. Sample Cases and Bags Adapted to Hold Merchandise-Samples, Instruments, and Tools, Made From Leather, Etc. Class 3.

85,908. KEYSTONE. Registered Mar. 26, 1912. Keystone Steel and Wire Company, Peoria, Ill., a corporation of Illinois. Re-renewed Mar. 26, 1952. Barb Wire. Class 13.

86,025. BATES. Registered Apr. 9, 1912. Bates Manufacturing Company, Lewiston, Maine, a corporation of Maine. Re-renewed Apr. 9, 1952. Cotton Piece Goods. Class 42.

288,187. MAZZINI. Registered Oct. 20, 1931. Joseph Di Santo, doing business as Di Santo & Co., Duluth, Minn. Renewed Oct. 20, 1951. Fresh Artichokes, Bread, Cakes, Ripe Olives, Catsup, Live Poultry, Dressed Poultry, Canned Pork and Beans, and Canned Pumpkin. Class 46.

289,706. HOLE-HI. Registered Dec. 1, 1931. M. H. Raab Co., Inc. Renewed Dec. 1, 1951, to M. H. Raab-Meyerhoff Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Men's Dress, Negligee, and Work Shirts. Class 39.

290,393. LUX. Registered Jan. 5, 1932. Walter Kidde & Company, Inc., New York, N. Y. Renewed Jan. 5, 1952, to Walter Kidde & Company, Inc., Belleville, N. J., a corporation of New York. Aircraft Flotation System. Class 19.

290,449. CLOROX. Registered Jan. 5, 1932. Clorox Chemical Co., Oakland, Calif., a corporation of Delaware. Renewed Jan. 5, 1952. Liquid Preparation for General Household Cleaning Purposes. Class 52.

290,601. "BURTON'S SPIDERWEB" ETC. AND REPRESENTATION OF SPIDER WEB. Registered Jan. 12, 1932. Burton Brothers & Co. Inc., New York, N. Y., a corporation of New York. Renewed Jan. 12, 1952. Cotton Piece Goods and Mixtures of Cotton and Silk Piece Goods. Class 42.

291,887. EUREKA. Registered Feb. 23, 1932. Eureka Vacuum Cleaner Company, Detroit, Mich. Renewed Feb. 23, 1952, to Eureka Williams Corporation, Bloomington, Ill., a corporation of Michigan. Vacuum Cleaner Dust Receptacles Formed Wholly or in Part of Textile Material. Class 2.

291,996. CRUISER. Registered Mar. 1, 1932. Kelly-Springfield Tire Company, New York, N. Y. Renewed Mar. 1, 1952, to The Kelly-Springfield Tire Company, Cumberland, Md., a corporation of Maryland. Automobile Tires of Rubber or Rubber and Fabric. Class 35.

292,058. UTONA. Registered Mar. 1, 1932. Chesbro Music Co., Idaho Falls, Idaho, a corporation of Idaho. Renewed Mar. 1, 1952. Clarinets, Saxophones, Baritones, French Horns, Melophones, and Sousaphones. Class 36.

292,073. AIR WHIP. Registered Mar. 1, 1932. National Aerating Process Company, Pittsburgh, Pa. Renewed Mar. 1, 1952, to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio. Machines for Aerating Cream To Produce Cream Akin to Whipped Cream and Similar Products. Class 23.

292,136. "BUSCH" AND DESIGN. Registered Mar. 1, 1932. Adolph Pfingst, Stapleton, N. Y. Renewed Mar. 1, 1952, to Pfingst & Company, Inc., New York, N. Y., a corporation of New York. Dental Tools—Namely, Dental Burs, Etc. Class 44.

292,224. REPRESENTATION OF DATE TREE. Registered Mar. 8, 1932. Dale Bumstead, Phoenix, Ariz. Renewed Mar. 8, 1952, to Tal'-Wi-Wi Ranches, Peoria, Ariz., a corporation of Arizona. Fresh Deciduous Fruits, Fresh Citrus Fruits, Etc. Class 46.

292,530. METROBLACK. Registered Mar. 15, 1932. Mergenthaler Linotype Company, Brooklyn, N. Y., a corporation of New York. Renewed Mar. 15, 1952. Matrices for Type Bar Casting Machines. Class 50.

292,531. METROLITE. Registered Mar. 15, 1932. Mergenthaler Linotype Company, Brooklyn, N. Y., a corporation of New York. Renewed Mar. 15, 1952. Matrices for Type Bar Casting Machines. Class 50.

292,532. METROTHIN. Registered Mar. 15, 1932. Mergenthaler Linotype Company, Brooklyn, N. Y., a corporation of New York. Renewed Mar. 15, 1952. Matrices for Type Bar Casting Machines. Class 50.

292,846. REPRESENTATION OF GROTESQUE HUMAN FIGURE. Registered Mar. 29, 1932. White & Son Limited, London, England, a British company. Renewed Mar. 29, 1952. Fresh Fruits, Both Citrus and Deciduous, and Vegetables for Food. Class 46.

293,152. REPRESENTATION OF TRIANGULAR PRISMS. Registered Apr. 12, 1932. The Fairfacts Company, Inc., New York, N. Y., a corporation of New York. Renewed Apr. 12, 1952. Bathroom Accessories of the Built-In and Projecting Types—Namely, Soap Holders, Etc. Class 13.

293,263. "DR. L. D. LEGEAR V. S." ETC. Registered Apr. 19, 1932. Dr. L. D. Le Gear Medicine Company, St. Louis, Mo., a corporation of Missouri. Renewed Apr. 19, 1952. Medicinal Preparations Used in the Treatment of Diseases of Animals and Poultry—Namely, Mineralized Stock Powders—Etc. Class 18.

293,464. RIPPLESHEEN. Registered Apr. 26, 1932. Alfred L. Helwith & Co., Inc. Renewed Apr. 26, 1952, to J. P. Stevens & Co., Inc., New York, N. Y., a corporation of Delaware. Men's Cotton Shirtings in the Piece, and Cotton Textile Fabrics. Class 42.

293,728. "FLEETFOOT" AND DRAWING LINED FOR GOLD. Registered May 3, 1932. Mandel & Cohen. Renewed May 3, 1952, to Isidor H. Cohen, New York, N. Y. Underwear for the Use by Men, Women, and Children. Class 39.

293,920. "CUBOR" AND DESIGN. Registered May 10, 1932. Chipman Chemical Engineering Co., Inc., by change of name to Chipman Chemical Company, Inc. Renewed May 10, 1952, to Chipman Chemical Company, Inc., Bound Brook, N. J., a corporation of New York. Insecticide. Class 6.

293,984. "PETTICOAT LANE." Registered May 10, 1932. Harzfeld's, Inc., Kansas City, Mo., a corporation of Missouri. Renewed May 10, 1952. Women's Leather, Fabric, and Combination Leather-Fabric Shoes. Class 39.

294,010. HILCRETE. Registered May 10, 1932. Hillyard Chemical Company, St. Joseph, Mo., a corporation of Missouri. Renewed May 10, 1952. Cement Floor Enamel. Class 16.

294,011. METAL-IFE. Registered May 10, 1932. Hillyard Chemical Company, St. Joseph, Mo., a corporation of Missouri. Renewed May 10, 1952. Metal Paint. Class 16.

294,076. CANEC. Registered May 17, 1932. Hawaiian Cane Products, Limited, Honolulu, Territory of Hawaii. Renewed May 17, 1952, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts. Insulating Board, Insulating Lath, Insulating Tile, Low Density Roof and Refrigeration Insulation. Class 12.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

328,418. FALERNUM. Registered Sept. 24, 1935. Arthur V. Stansfeld, doing business as A. V. Stansfeld & Company, New York, N. Y. Cordials or Liqueurs Class 49. Corrected as follows: In the statement, lines 6 and 7, "cordials or liqueurs" should be deleted and *an alcoholic sweetening ingredient for flavoring all rum and gin drinks* should be inserted in lieu thereof.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 19

VEHICLES

Reg. No. 201,754. Registered Aug. 4, 1925. F. A. Whitney Carriage Company, Leominster, Mass., a corporation of Massachusetts. Republished by registrant.

PULLMANETTE

For Light Vehicles—Namely, Baby Carriages.
Claims use since Jan. 3, 1925.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 300,649. Registered Jan. 31, 1933. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.



For Generators, Motors, Domestic Lighting Plants, Magnetos.
Claims use since May 18, 1920.

Reg. No. 429,373. Registered Apr. 29, 1947. Resistance Welder Corporation, Bay City, Mich., a corporation of Michigan. Republished by registrant.



For Electric Welding Machines.
Claims use since Jan. 25, 1945.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 82,972. Registered Aug. 8, 1911. Elgin National Watch Company, Elgin and Chicago, Ill., a corporation of Illinois. Republished by registrant, present address Elgin, Ill.



For Watch Movements.
Claims use since about Jan. 1, 1890.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 291,994. Registered Mar. 1, 1932. E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.



For Leather Belting.
Claims use since July 28, 1931.

CLASS 39

CLOTHING

Reg. No. 201,200. Registered July 21, 1925. Lehigh Silk Hosiery Mills, Inc., New York, N. Y. Republished by Durham Hosiery Mills, Durham, N. C., a corporation of North Carolina.

"PHANTOM"

For Men's, Women's, and Children's Hosiery.
Claims use since July 1, 1924.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 84,260. Registered Nov. 21, 1911. Alexander F. Sherley, London, England. Republished by A. F. Sherley & Co. Limited, London, England, a company organised under the laws of the United Kingdom of Great Britain and Northern Ireland.

LACTOL

For Food for Dogs.
Claims use since Feb. 16, 1907.

Reg. No. 120,832. Registered Mar. 12, 1918. California Sanitary Canning Co., Los Angeles, Calif. Republished by Masterpiece Foods, Inc., Santa Maria, Calif., a corporation of California.

Masterpiece

For Canned Tomatoes.
Claims use since Mar. 19, 1917.

Reg. No. 291,142. Registered Jan. 26, 1932. Simons & French Company, Incorporated, New York, N. Y., and Sacramento, Calif., a corporation of New York. Republished by registrant.

MOUNTAIN PARK

For Fresh Deciduous Fruits, Fresh Citrus Fruits.
Claims use since Aug. 13, 1931.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 391,632. Registered Nov. 18, 1941. Hampden Brewing Company, Willimansett, Mass., a corporation of Massachusetts. Republished by registrant.



The words "Mild," "Ale," "Sugar," "Hops," and "Malt" are disclaimed apart from the mark as shown.
For Ale.
Claims use since Apr. 3, 1941.

Reg. No. 395,603. Registered June 2, 1942. Hampden Brewing Company, Willimansett, Mass., a corporation of Massachusetts. Republished by registrant.



The words "Mild" and "Ale," the representation of a glass of ale, and the outline of the label are disclaimed apart from the mark as shown.
For Ale.
Claims use since Dec. 3, 1941.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 291,215. Registered Feb. 2, 1932. General Dyestuff Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

IGEPON

For Washing and Scouring Agent for Textile Fabrics.
Claims use since Apr. 3, 1931.

PLANT PATENTS

GRANTED MARCH 11, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,077

SAINTPAULIA OR AFRICAN VIOLET PLANT

Louis Ghio, San Francisco, Calif.

Application July 5, 1949, Serial No. 103,141

1 Claim. (Cl. 47—60)

A new and distinct variety of African violet plant, substantially as described and illustrated, having blooms the petals of which have violet-blue color with a white edge portion substantially one thirty-second of an inch in width around the peripheral edge portion of the petals.

1,078

CAMELLIA PLANT

Hooper P. Connell, Baton Rouge, La.

Application December 6, 1950, Serial No. 199,473

1 Claim. (Cl. 47—60)

A new and distinct variety of camellia plant, having a snow white flower with informally arranged petals, the petals being slightly waved and twisted and having a distinct swirling formation near the center of the flower, the flower being further characterized by the absence of visible stamens during the growth of the flower.

1,079

EUONYMUS FORTUNEI PLANT

Clifford D. Corliss, Gloucester, Mass., assignor to Corliss Bros., Inc., Gloucester, Mass., a corporation of Massachusetts

Application March 15, 1950, Serial No. 149,865

1 Claim. (Cl. 47—59)

The new and distinct variety of evergreen *Euonymus fortunei* plant, with combination of features substantially as herein shown and described, characterized particularly by its well-brushed narrowly columnar and fastigiate natural form; its heavy foliage and bushiness and sturdiness of character and appearance; its uniformity of upright columnar form; its extreme hardiness, with absence of any showing of winter burn; its disease resistance, and ability to withstand very dry conditions; and its dark-green glossy leaves with prominent central veins of lighter green.

PATENTS

GRANTED MARCH 11, 1952

2,588,334

SOLUTIONS OF ACRYLONITRILE POLYMERS IN NITROMETHANE AND ALPHA-HYDROXY - BETA - TRICHLOROPROPIONITRILE

Masten Rufus Dalton, Charlotte, N. C., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 9, 1950, Serial No. 194,932

4 Claims. (Cl. 260—32.4)

1. A composition of matter comprising an acrylonitrile polymer containing, by weight in the polymer molecule, from 75 to 100% of acrylonitrile and up to 25% of another substance which contains from one to two ethylenic linkages and which is copolymerizable with acrylonitrile, dissolved in a binary mixture consisting of nitromethane and as an auxiliary solvent, alpha-hydroxy-beta-trichloropropionitrile, the nitromethane being present in an amount of from 50 to 80 volume percent based on the total volume of said mixture.

2,588,335

SOLUTIONS OF ACRYLONITRILE POLYMERS

Masten Rufus Dalton, Charlotte, N. C., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 9, 1950, Serial No. 194,933

8 Claims. (Cl. 260—31.2)

1. A composition of matter comprising an acrylonitrile polymer containing, by weight in the polymeric molecule, from 75 to 100% of acrylonitrile and up to 25% of another substance which contains from one to two ethylenic linkages and which is copolymerizable with acrylonitrile, dissolved in a binary mixture consisting of nitromethane and an auxiliary solvent selected from the group consisting of formic acid, dichloracetic acid, and cyano-acetic acid, the nitromethane being present in an amount of from 40 to 90 volume per cent, based on the total volume of said mixture.

2,588,336

PURIFICATION OF GENTISIC ACID

Ferdinand C. Meyer, Kirkwood, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application March 18, 1950, Serial No. 150,537

10 Claims. (Cl. 260—521)

1. In the process for the purification and recovery of substantially pure 2,5-dihydroxy benzoic acid from crude 2,5-dihydroxy benzoic acid contained in an aqueous medium, the step comprising extracting the 2,5-dihydroxy benzoic acid with diisopropyl ether.

2,588,337

CONCENTRATION OF ORANGE JUICE

George Sperti, Cincinnati, Ohio, assignor to The Institutum Divi Thomae Foundation, Cincinnati, Ohio, a corporation of Ohio not for profit

No Drawing. Application April 17, 1950, Serial No. 156,495

9 Claims. (Cl. 99—205)

1. A process of concentrating orange juice to a final product of the predetermined desired Brix value and substantially without loss or impairment of its volatile flavor constituents and soluble solids which comprises partially freezing the juice and separating from the ice a concentrate having a Brix value of 20 to 50, the amount of said concentrate separated from the ice being limited so that its water content does not exceed that of the desired final product, separating the remaining soluble solids and liquor from the ice and evaporating the liquor until the combined water content of the evaporated residue and of said concentrate does not exceed the water content of the desired final product, and then adding said evaporated residue to said concentrate to make said final product.

2,588,338

TREATMENT OF FISH LIVERS

Frantz Aimé Vandenheuvel, Halifax, Nova Scotia, Canada, assignor to Canadian Patents and Development Limited, Ottawa, Ontario, Canada, a corporation of Canada

No Drawing. Application August 13, 1949, Serial No. 110,240

6 Claims. (Cl. 260—412.1)

1. A method of recovering oil and undenatured protein from fish livers which comprises macerating the livers, adjusting the temperature of the macerated mass to between 45 and 70° C., adjusting the pH of the mass to between 7.5 and less than 8.5 with an aqueous solution of an alkali containing not more than 1.5% of the weight of the liver of the alkali and less than 8% of the weight of the liver of water to obtain maximum hydration of the protein to liberate oil and protein from each other, said mass being maintained throughout the treatment free from other additions, at a temperature not exceeding 70° C. and at a pH less than 8.5 to avoid denaturing of the protein therein, and separating the oil phase from the undenatured protein-water phase.

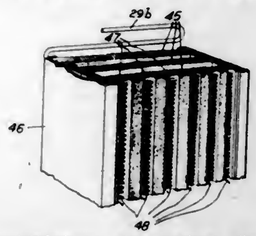
2,588,339

DEHUMIDIFYING SYSTEM

Frederick O. Anderegg, Somerville, N. J., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application April 29, 1948, Serial No. 24,087

2 Claims. (Cl. 183—4.3)



1. Dehumidifying apparatus for extracting moisture from gaseous atmospheres, said apparatus comprising: a series of spaced, highly porous, wall elements, one of said elements being in contact with the atmosphere from which moisture is to be removed; a frame for said wall elements maintaining the spaced relationship thereof and confining the respective atmospheres between said wall elements; a refrigerating coil disposed at and in intimate contact with the dehumidifying face of the wall element in contact with the atmosphere from which moisture is to be removed; and means for applying a flow of relatively dry heated air to the wall element of said series which is distant from the element of said series in contact with the atmosphere from which moisture is to be removed, whereby the spaces between said wall elements are heated in progressively varying degree and moisture is drawn through said wall elements in step-by-step sequence from the moisture-bearing gaseous atmosphere to the flow of relatively dry heated air.

2,588,340

MANUFACTURE OF FIBER GASKET MATERIAL

John W. Baymiller, Manheim Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application September 20, 1948, Serial No. 50,240

9 Claims. (Cl. 117—164)

1. A saturant for fibrous sheet material comprising plasticized glue, resorcinol, and triethanolamine said resorcinol being present in an amount equal to 0.025 to 0.3 part by weight for each part of glue, said triethanolamine being present in an amount equal to at least 0.2 part by weight for each part of glue.

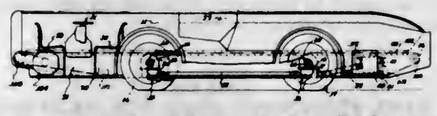
2,588,341

SHUTTLE CAR

William R. Beck, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application April 20, 1949, Serial No. 88,575

3 Claims. (Cl. 214—83.36)



1. In a vehicle of the class described, a main frame having upright walls and a bottom plate defining an open-ended material carrying compartment extending longitudinally thereof, axle structures having wheels thereon, for supporting said vehicle, means for propelling said vehicle including a worm gear mechanism on at least one of said axles disposed centrally thereof, said bottom plate having a centrally disposed, open-bottomed, longitudinally extending arched portion registering with and disposed above said worm gear mechanism to accommodate the upper portion of the same, and a pair of endless conveyors mounted for movement along said bottom plate at opposite sides of said arched portion for discharging material from the open end of said compartment, and means for driving said conveyors.

2,588,342

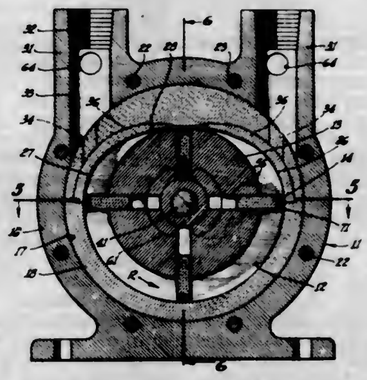
FLUID ENGINE

Earl E. Bidwell, Los Angeles, Calif., assignor to Walter P. Innes, Jr., Wichita, Kans.

Application January 2, 1943, Serial No. 471,099

3 Claims. (Cl. 103—3)

1. In a hydraulic engine, a housing comprising spaced, parallel walls and a peripheral wall defining a chamber, a rotor revolubly mounted within said chamber and having a plurality of slots extending inwards from the periphery thereof, the portion of said peripheral wall associated with half of said chamber being semi-circular and co-axial with respect to said rotor, and the remainder of said peripheral wall being formed of three arcs, the outer two of said three arcs being of less radius than and merging at one end of each with one end of said semi-circular portion of said peripheral wall, and the center one of said three arcs being of less radius than either of said outer arcs, and merging at each of its ends with one of said outer arcs said rotor substantially making sliding contact with said peripheral wall of said chamber at one location thereon located within said central arc and being spaced therefrom elsewhere, a vane reciprocable within each of said slots, and means urging said vanes outwards of said slots to maintain wiping contact with said peripheral wall as said rotor turns, said housing having inlet and outlet ports communicating with said chamber and arranged symmetrically on opposite sides of the area of contact between said rotor and said peripheral wall of said chamber, and said housing also having a pair of passages arranged symmetrically about said area of contact and in position to communicate successively with said slots adjacent their inner ends, each of said passages communicating with one of said ports.



2,588,343

INHIBITING FOAMING IN STEAM GENERATORS

Paul G. Bird and Arthur L. Jacoby, Western Springs, Ill., assignors to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware

No Drawing. Application December 21, 1946, Serial No. 717,823

8 Claims. (Cl. 252—321)

4. A method of generating steam from a boiler water having a tendency to foam on boiling which comprises dispersing into said water an unsymmetrical diacylated polyamine in which each acyl radical has a different number of carbon atoms, one of said acyl radicals being derived from a short chain monocarboxylic acid from the group consisting of fatty acids and hydroxy fatty acids containing 2 to 4 carbon atoms and the other acyl radical being derived from a fatty acid containing at least 14 carbon atoms, the polyamine being from the group consisting of ethylene diamine and polyethylene polyamines containing 4 to 8 carbon atoms, the total number of carbon

atoms in said diacylated polyamine being within the range of 18 to 32 carbon atoms, said diacylated polyamine being dispersed into said water in an amount sufficient substantially to inhibit the tendency of said water to foam on boiling, and boiling said water.

2,588,344
PREVENTION OF FOAMING IN STEAM GENERATION
Paul G. Bird and Arthur L. Jacoby, Western Springs, Ill., assignors to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 21, 1946, Serial No. 717,824
9 Claims. (Cl. 252—321)

9. A method of generating steam from a boiler water having a tendency to foam on boiling which comprises dispersing into said water a wax-like diacylated polyamine in which the polyamine is a polyethylene polyamine, one of the acyl groups is derived from a fatty acid containing at least 14 carbon atoms, and the other acyl group is derived from the group consisting of aromatic sulfonyl radicals of the benzene and naphthalene series, aromatic-aliphatic acyl radicals in which the aromatic group is from the benzene series and the aliphatic group contains not more than 3 carbon atoms and aromatic carboxylic acyl groups of the benzene and naphthalene series, said diacylated polyamine being dispersed into said water in an amount sufficient substantially to inhibit the tendency of said water to foam on boiling, and boiling said water.

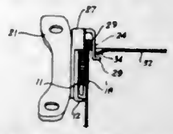
2,588,345
PREVENTION OF FOAMING IN STEAM GENERATION
Paul G. Bird and Arthur L. Jacoby, Western Springs, Ill., assignors to National Aluminate Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application December 23, 1946, Serial No. 718,120
6 Claims. (Cl. 252—321)

4. The method of generating steam from a boiler water having a tendency to foam on boiling which comprises dispersing into said water a compound from the group consisting of diacyl hydrazines in which both acyl groups are derived from fatty acids, are substantially equal as regards the number of carbon atoms in each and the total number of carbon atoms in said hydrazine compound is at least 32, diacyl hydrazines in which one of said acyl groups is derived from fatty acids containing 2 to 4 carbon atoms, inclusive, and the other of said acyl groups is derived from fatty acids containing at least 16 carbon atoms and the total number of carbon atoms in said hydrazine compound is at least 18, diacyl hydrazines in which one acyl radical is derived from a fatty acid containing at least 16 carbon atoms and the other acyl radical is that of an aromatic carboxylic acid, diacyl hydrazines in which one acyl radical is derived from a fatty acid containing at least 16 carbon atoms and the other acyl radical is that of an aryl sulfonic acid, and diacyl hydrazines in which one acyl radical is derived from a fatty acid containing at least 16 carbon atoms and the other acyl radical is that of an aromatic-aliphatic carboxylic acid, said compound being dispersed into said water in an amount sufficient substantially to inhibit the tendency of said water to foam on boiling, and boiling said water.

2,588,346
REFINING GASOLINE AND PETROLEUM OILS WITH AQUEOUS ANTIMONY TRICHLORIDE
George R. Bond, Jr., Paulsboro, N. J., assignor to Houdry Process Corporation, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application October 22, 1949, Serial No. 123,101
9 Claims. (Cl. 196—44)

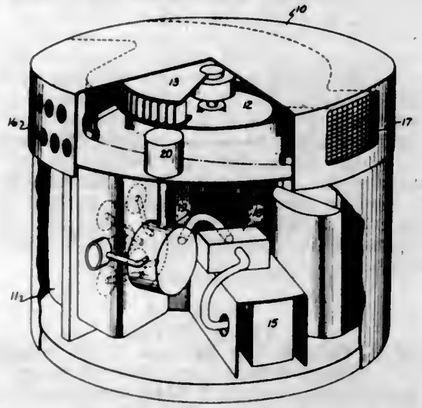
1. The method of refining normally liquid petroleum hydrocarbon fractions which comprises treating such a fraction with an aqueous solution of antimony trichloride, said aqueous solution being employed in an amount at least equivalent to about 0.1% saturated antimony trichloride solution per volume of liquid hydrocarbon fraction treated.

2,588,347
CAN OPENER
Ronald A. Bown, Denver, Colo.
Application April 11, 1949, Serial No. 86,809
3 Claims. (Cl. 30—15)



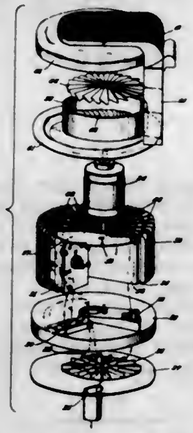
1. In a can opener having a cutter supporting frame adapted for use in removing the lids of containers, a cutting blade of sufficient length to have its end beneath the cover to be severed when in cutting position, a cutting edge on said blade positioned to form a cover penetrating point, and a lip extension on said blade at the penetrating point disposed outwardly from said blade at approximately right angles to the plane of the blade for engagement beneath the inner face of the cover that is being severed from the container and adapted to raise the cover up at the completion of the severing operation.

2,588,348
FUEL FEEDING SYSTEM FOR HEATERS
Stanley J. Budlane, Chicago, Ill., assignor to Motorola, Inc., a corporation of Illinois
Application February 1, 1946, Serial No. 644,693
6 Claims. (Cl. 236—10)



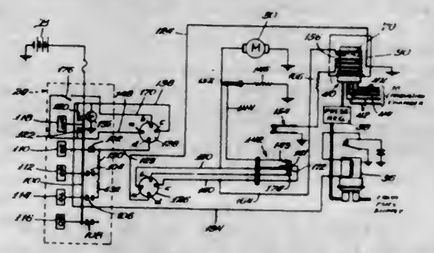
6. A liquid fuel heater of the type for use in automobiles and small home installations including in combination a compact housing with openings therein for intake of the air to be heated and discharge of the air after heating, a combustion chamber in said housing, a plurality of burners cooperating with said combustion chamber, means for selectively supplying liquid fuel under pressure to said burners in accordance with the heat output required of said heater, said last mentioned means including means having a closed chamber therein, a plurality of fuel outlet passages connecting said chamber to said burners, a control member movably mounted within said chamber and including a portion extending through a wall of said chamber, and a plurality of valve means secured to said member and cooperating with said outlet passages to sequentially close the same upon movement of said member, and means for controlling the movement of said member in accordance with the temperature of the intake air entering the housing including a temperature responsive device operatively connected to said portion of said control member, and a variable heat-generating element disposed adjacent said temperature responsive device to control the operation of the same, said temperature responsive device being actuable in accordance with the temperature of the intake air entering the housing and the temperature of said variable heat generating element.

2,588,349
INTERNAL-COMBUSTION HEATING APPARATUS
Robert Dusek, Berwyn, and Stanley J. Budlane, Chicago, Ill., assignors to Motorola, Inc., a corporation of Illinois
Application September 7, 1946, Serial No. 695,478
4 Claims. (Cl. 126—110)



1. Internal combustion heating apparatus comprising a base member for supporting the operating components of said apparatus and including intake and exhaust gas chambers therein, said base member being of relatively shallow configuration with said exhaust gas chamber being substantially centrally thereof and said intake chamber being elongated and extending about a portion of said exhaust chamber, said chambers having openings therein communicating with the atmosphere, a motor secured to said base member, a C-shaped member having a combustion chamber therein positioned about said motor and secured to said base member, said combustion chamber in heat transfer relation therewith having a combustion opening at one end of its arc and an exhaust opening at the other end of its arc, said exhaust opening being arranged to communicate with said exhaust gas chamber, an exhaust fan within said exhaust chamber driven by said motor for creating a suction at the exhaust opening of said combustion chamber and for exhausting gas from said exhaust chamber, whereby a circumferential flow is induced within said combustion chamber, means secured to said base member for providing a passage for air from said intake air chamber to said combustion chamber, a housing secured to said base member and surrounding the components of the heating apparatus to form a self-contained assembly, said housing forming a first passage for air about said combustion chamber, a cover for said housing having a central opening therein, said cover cooperating with said C-shaped member to form a second air passage about said combustion chamber, and a circulating fan disposed within said central opening and driven by said motor for circulating air to be heated.

2,588,350
HEATER CONTROL APPARATUS
Stanley J. Budlane, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application January 16, 1948, Serial No. 2,685
14 Claims. (Cl. 236—11)

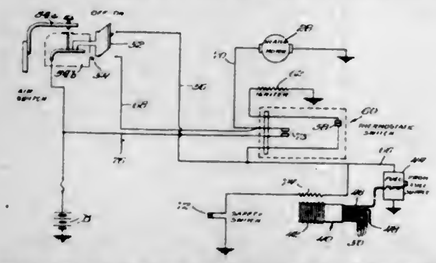


6. In an apparatus adapted to utilize a fluid and having a throttling valve to control the supply of fluid thereto, the combination comprising a condition-responsive means at the point where the fluid is utilized in the apparatus, said means including a switch automatically closable when a condition occurs such that the fluid is unused for longer than a given time, an expansible thermal element arranged to actuate said throttling valve by its force of expansion and contraction, and an electric heating element in circuit with said switch and so disposed as to affect the temperature of said thermal element, said switch when closed energizing said heating element to heat said thermal element so that said throttling valve is operated by said condition-responsive means through the medium of said heating element and said thermal element to shut off the supply of fuel.

2,588,351
VEHICULAR HEATING APPARATUS
Raymond J. White, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application January 7, 1948, Serial No. 1,017
2 Claims. (Cl. 236—11)

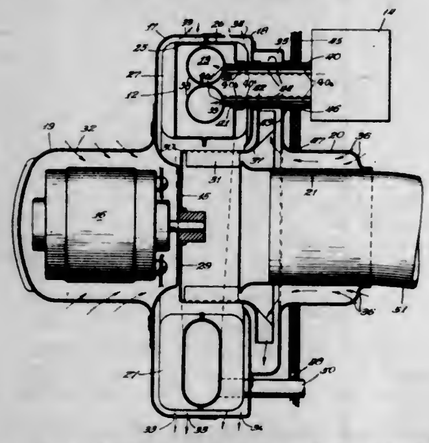
1. A control system for fuel burning apparatus for heating a space, said control system causing operation of said apparatus when the temperature within said space falls below a first value and causes operation of the heating apparatus until the temperature within said space exceeds a second value greater than said first value, said

control system including in combinatin, means for supplying fuel to said heating apparatus, an air temperature responsive device controlling said fuel supplying means and arranged to supply fuel to said heating apparatus when the temperature of the space falls below said first value and to stop the supply of fuel when the temperature in said space exceeds said second value, an expansible thermal sensitive element responsive to the temperature of the space being heated, a fuel selector valve controlling the supply of fuel from said fuel supplying means to said heating



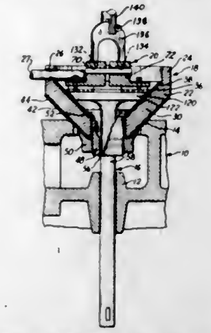
apparatus and operatively connected to said expansible thermal sensitive element for regulating the supply of fuel to said heating apparatus to maintain the temperature of the space being heated at a selected value intermediate said first and second values, a heating element physically disposed adjacent said thermal sensitive element and controlling said thermal sensitive element for cutting off the supply of fuel to said heating apparatus should burning fail to occur therein, and a thermal operated safety device controlling the energization of said heating element.

2,588,352
INTERNAL-COMBUSTION HEATER
Stanley J. Budlane, Chicago, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application January 15, 1948, Serial No. 2,439
5 Claims. (Cl. 126—110)



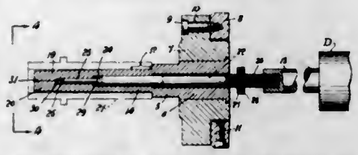
1. An internal combustion heater comprising an annular duct means defining an annular combustion chamber, a first shell housing said combustion chamber, a second shell adjoining said first shell on one side thereof, said second shell defining an annular air supply chamber, a unitary fan structure including a first portion disposed in the space surrounded by said combustion chamber for circulating air to be heated over said combustion chamber and a second portion in said annular air supply chamber to provide circulation of air for combustion, a motor for driving said fan, a housing for said motor secured to said first shell on the side thereof opposite the side on which said second shell is positioned and having air intake openings therein to provide an intake air duct about said motor for air to be heated, said first shell having an air intake portion communicating with said intake air duct, and an outlet portion for air heated by said combustion chamber, said second shell having an air inlet portion, a second air duct extending through said second shell to the air intake portion of said first shell, a fuel burner in said combustion chamber, means for supplying fuel to said burner, and an air tube communicating with the interior of said second shell and extending to said burner for supplying combustion air thereto.

2,588,353
VALVE REFINISHING TOOL
John V. Bueckermann, Denver, Colo.
Application November 15, 1948, Serial No. 60,100
7 Claims. (Cl. 51—187)



2. A refinishing device for valves and valve seats comprising a head having inner and outer surfaces, abrasive elements on said inner and outer surfaces adapted to engage said valves and valve seats respectively, a bushing extending through said head and having means engaging the abrasive element on said inner surface, a split adapter mounted in said bushing, and a collar removably secured to said bushing and having means engaging the abrasive element on said outer surface.

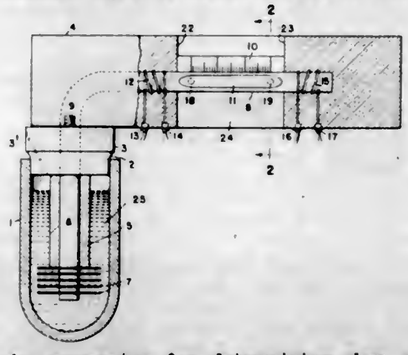
2,588,354
ARBOR
Arthur Buescher, Detroit, Mich.
Application May 20, 1946, Serial No. 671,069
In Canada April 19, 1945
2 Claims. (Cl. 82—44)



1. In an arbor for internally supporting tubular work, a cylindrical work-holding body radially

slotted from one end only to provide a plurality of expansion fingers all mutually connected at the other end of said body to form an expanding and non-expanding work-receiving arbor proportioned to fit within one end of the bore of the work, driving means connected to the non-expanding end portion of said body, and a finger-expanding rod longitudinally adjustable within said body, said rod having a plurality of tapered successively enlarged steps disposed axially thereon and said fingers having correspondingly positioned tapered and successively enlarged internal seats thereon for expanding engagement by said steps.

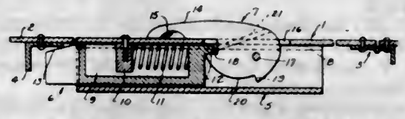
2,588,355
METHOD AND APPARATUS FOR MEASURING DEW POINT
Horace K. Burr, San Pablo, and Glen F. Bailey, Berkeley, Calif., assignors to United States of America as represented by the Secretary of Agriculture
Application June 25, 1948, Serial No. 35,275
5 Claims. (Cl. 73—17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. An apparatus for determining dew point comprising: a heat conducting rod; means for cooling one end of the rod below the dew point of the atmosphere, said means comprising a container for a coolant liquid bath into which the rod projects downwardly, heat conducting surface extensions on the lower end of the rod, a heat insulating sleeve about the rod above the extensions and extending to at least the surface of the liquid bath, whereby the effect of fluctuations in the depth of the liquid bath is minimized, the heat conduction being chiefly through the submerged extensions; a dew collecting mirror extending lengthwise of the rod toward the other end thereof; heating means for the rod toward but beyond each end of the mirror; means fixed in position for measuring the temperature of the mirror at a point 1 toward one end of the mirror; means fixed in position for measuring the temperature of the mirror at a point 2 toward the other end of the mirror; and scale means for measuring the distance from one of said points to the boundary of the dew or frost that forms on the mirror upon exposure to the atmosphere.

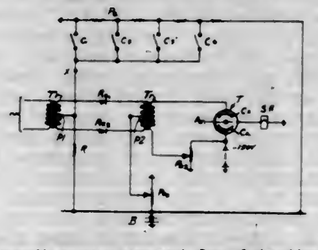
2,588,356
CLOSURE FASTENER
Charles L. Burgoyne, Norwood, Ohio
Application February 13, 1950, Serial No. 143,984
4 Claims. (Cl. 292—182)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. A closure fastener comprising, a casing having a channel-like passage extending therethrough, a latch bolt movably mounted in said casing, spring means in said casing for biasing said latch bolt toward the retracted position within said casing, a camming lever having one end portion pivotally mounted in said casing adjacent to said latch bolt and having the other end extending from said casing to form a handle element, a cam portion on said lever at the pivoted end thereof to project said latch bolt to the projected position upon rotation of said lever in one direction, shoulder means on said camming lever at one end of said cam portion, a detent



portion on the latch bolt at the end adjacent to said cam portion and engageable by said shoulder means in the projected position of said latch bolt to prevent movement of said camming lever in a bolt retracting direction, and said camming lever having a transverse passage therethrough opening at one end adjacent to said shoulder means for reception of a rod to exert pressure on said latch bolt in the normal projected position and thus move said latch bolt beyond the normal projected position to cause disengagement of said shoulder means and said detent portion of said latch bolt.

2,588,357
DEVICE FOR DETECTING ELECTRIC POTENTIALS
Lucien Alfred Benoit Cabes, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application July 31, 1947, Serial No. 765,022
In the Netherlands May 26, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires May 26, 1963
5 Claims. (Cl. 175—183)



1. A circuit arrangement for detecting electric potentials of predetermined polarity and minimum amplitude, comprising a gas discharge tube, signalling means operable by said tube, a source of alternating current of constant amplitude, a first transformer having its primary connected across said source, a second transformer having its secondary connected across the input of said tube, a first rectifier connecting a terminal of the secondary of said first transformer to a terminal of the primary of said second transformer, a second rectifier connecting the other terminal of the secondary of first transformer to the other terminal of the primary of said second transformer, said rectifiers being poled to oppose each other, a source of direct current connected intermediate the substantial midpoints of the last-mentioned primary and secondary so as to increase the impedance of said rectifiers, biasing means normally maintaining said tube non-con-

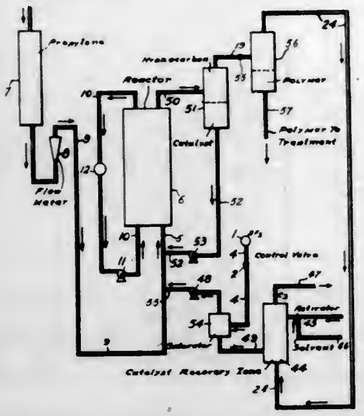
ductive, and input means for applying the potentials to be detected to said rectifiers in bucking relationship to said source of direct current so that, upon attainment of said minimum amplitude, alternating currents passing said rectifiers will be sufficient to overcome the effect of said biasing means and ionize said tube.

2,588,358

PROCESS FOR POLYMERIZATION OF PROPYLENE WITH LIQUID CATALYST COMPLEX

Carl S. Carlson and Robert S. Merrington, Elizabeth, and Frank A. Biribauer, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 22, 1948, Serial No. 22,586
1 Claim. (Cl. 260—683.15)



A process for selective liquid phase polymerization of propylene to produce predominantly C_9 through C_{24} polyproylene polymers which comprises contacting propylene in the liquid phase at a temperature of 0° to 91.4° C., at superatmospheric pressures with a liquid polymerization catalyst solution consisting essentially of a complex of BF_3 and diisopropyl ether dissolved in a complex of BF_3 and diethyl ether, said catalyst solution being present in an amount sufficient to effect rapid separation of the polypropylene polymers and unreacted liquid propylene from the liquid catalyst solution, simultaneously supplying additional BF_3 to the polymerization reaction mixture, continuously withdrawing the reaction mixture to a phase separation zone, and settling the reaction mixture to effect rapid and complete phase separation of the polypropylene polymers and any unreacted liquid propylene from the liquid catalyst solution.

2,588,359

NICKEL-COPPER-CHROMIA-ALKALI METAL SULFATE CATALYST AND ITS PREPARATION

Henry C. Chitwood, John T. Fitzpatrick, George W. Fowler, and Benjamin T. Freure, Charleston, W. Va., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

No Drawing. Application February 16, 1949, Serial No. 76,852
11 Claims. (Cl. 252—440)

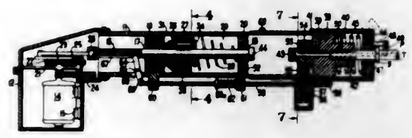
1. A hydrogenation catalyst stabilized for operation as a dehydrogenation catalyst consisting essentially of nickel; copper, mostly in the form of metallic copper; chromium, mostly in the form of its oxide; and an alkali metal sulfate of the group consisting of lithium sulfate, sodium sulfate, potassium sulfate, rubidium sulfate and caesium sulfate, said copper and chromium being present in a ratio of about 15 to 40 parts of copper and about 0.5 to 4 parts of chromium per 100 parts of nickel, computed on a metal basis by weight; and said alkali metal sulfate being present in a ratio of at least 0.3 part per 100 parts of nickel, by weight, and not more than 0.8 part of lithium sulfate; 0.8 part of sodium sulfate; 1.0 part of potassium sulfate; 1.5 parts of rubidium sulfate; and 2.0 parts of caesium sulfate, all per 100 parts of nickel by weight, with a total alkali metal sulfate content not to exceed 0.33 gram-mols per 100 gram atoms of nickel.

2,588,360

PERCUSSION TOOL

Charles T. Cole, New Philadelphia, Ohio

Application June 9, 1950, Serial No. 167,236
9 Claims. (Cl. 255—43)



1. A percussion tool comprising a cylindrical housing, a tool-carrying anvil mounted at the forward end of said housing for axial movement, a rod within said housing mounted for axial movement in axially spaced guide members disposed within the housing behind said anvil, a hammer portion on the forward end of said rod being adapted to strike a striking portion on the rear end of said anvil, a chamber being formed between said rod guide members, a piston carried by said rod between said guide members, said chamber being provided with an air inlet through the wall of the housing behind said piston and an air outlet through the forwardmost guide member, said piston being provided with an air passageway extending therethrough, and a one way valve for controlling said air passageway, said valve closing automatically upon forward movement of the piston and opening automatically upon rearward movement of the piston, said anvil being provided with an air conducting passageway extending therethrough for conducting air to a tool carried thereby.

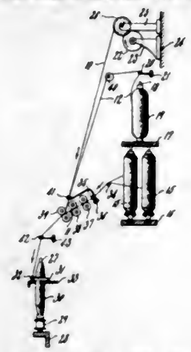
2,588,361

SINGLE COVER ELASTIC YARN

Harry E. Cooper, Pelham, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application February 9, 1951, Serial No. 210,148
5 Claims. (Cl. 57—152)

1. A single cover elastic yarn, comprising a twisted rubber core and a cover formed of a thin drafted ribbon of substantially parallel fibers laid helically around the core in a direction reverse to the twist of the core, and firmly held in place by a fine high-tenacity continuous filament yarn disposed in spaced coils about the ribbon cover and substantially buried therein, whereby the fibrous ribbon cover is firmly held



in place by a yarn that has only a small fraction of the weight of the ribbon.

2,588,362

FLAME RETARDANT POLYETHYLENE AND LIGNIN CONTAINING COMPOSITION

Robert C. Danison, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application August 17, 1949, Serial No. 110,879
4 Claims. (Cl. 260—17.4)

1. The method of obtaining a flame-retardant and drip-resistant polyethylene composition, which includes the steps of combining a highly chlorinated organic material containing 50% to 80% of chlorine, an inorganic flame-retardant substance chosen from the group of bismuth oxide, arsenic oxide, antimony oxide, bismuth sulfide, arsenic sulfide, and antimony sulfide, and a lignin-containing material, to form a mixture in which each of said three ingredients is present in an amount between 10% and 50% of the mixture, and combining said mixture with polyethylene in proportion to yield a combination in which 20% to 50% consists of said mixture.

2,588,363

CRAWL-FINS

Louis Marie de Corlieu, Paris, France

Application June 17, 1946, Serial No. 677,256
In France June 19, 1945
6 Claims. (Cl. 9—21)



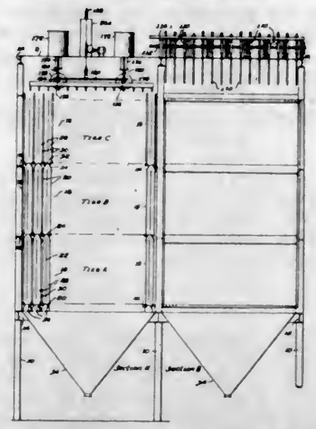
1. A propelling swim fin for attachment to the foot for exercising the feet of swimmers and more particularly for increasing the suppleness of the joints connecting the toes to the foot during the utilization thereof comprising a substantially rigid paddle portion constituting a prolongation of the foot, means defining a short, open-ended, close fitting toe receiving pocket at one end of said paddle portion, said end of the paddle portion extending within and longitudinally of said pocket substantially the length thereof, the bottom of the pocket being disposed inwardly of said end a distance such that the pocket accommodates only the toes of the user in juxtaposition to the paddle and fastening means connected to the pocket for passing behind the heel of the user to connect the fin to the foot after the toes have been inserted in the pocket so that utilization of the fin forces all the toes to simultaneously bend in both directions relative to the foot at the joints connecting the toes to the foot responsive to upward and downward movement of the leg in swimming.

2,588,364

ELECTROSTATIC PRECIPITATOR

Eduard Degiorgi, Zurich, Switzerland, assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application May 16, 1947, Serial No. 748,482
19 Claims. (Cl. 183—7)



1. In an electrostatic precipitator the combination which comprises a substantially rectangular horizontally disposed conduit through which a stream of dust laden gas may be passed horizontally, a plurality of longitudinally parallel vertically disposed partitions extending from the top to the bottom of said conduit dividing said conduit into a plurality of narrow longitudinal passages, said partitions including at the opposed faces thereof tiers of collecting electrodes, electrostatic discharge means operatively associated with said collecting electrodes and adapted to precipitate dust thereon, said partition being hollow from at least the bottom of the uppermost of said tiers of collecting electrodes to the bottom of said conduit with the bottom open to the exterior of said conduit, means for closing at least the front end of said hollow partition thereby forming a vertical passage through which dust may drop to the exterior of said conduit without being disturbed by the gas stream flowing therein, rapping means for imparting shock to said collecting electrodes to dislodge dust therefrom and deflecting means located between said tiers of collecting electrodes for deflecting dislodged dust into said hollow partition.

2,588,365

METHOD OF RENDERING FABRICS WATER-REPELLENT AND PRODUCT RESULTING THEREFROM

Firth L. Dennett, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application November 10, 1949, Serial No. 126,690
3 Claims. (Cl. 117—161)

1. The method of rendering organic fabrics water-repellent, which comprises wetting the fabrics with a mixture of from 20 to 70 per cent

by weight of a methylpolysiloxane containing between 2 and 2.1 methyl radicals per silicon atom and having a viscosity of at least 1,000 centistokes and less than 100,000 centistokes, and from 80 to 30 per cent of a methylhydrogenpolysiloxane containing between 1.0 and 1.5 methyl radicals and between 0.75 and 1.25 hydrogen atoms bonded to silicon per silicon atom, there being a total of 2 to 2.25 methyl radicals and hydrogen atoms per silicon atom, and heating the wetted fabrics at a temperature of from 100° to 475° F. for a period of from 5 seconds to 1 hour, whereby the fabrics are rendered water-repellent.

2,588,366

METHOD OF RENDERING FABRICS WATER-REPELLENT AND COMPOSITION THEREFOR

Firth L. Dennett, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application March 9, 1950, Serial No. 148,733
9 Claims. (Cl. 117—161)

1. The method of rendering organic fabrics water-repellent, which comprises wetting the fabrics with a mixture of from 15 to 45 per cent by weight of a methylhydrogenpolysiloxane fluid of the general formula

$$(CH_3)_aH_bSiO_{\frac{4-a-b}{2}}$$

where a has a value of from 1.0 to 1.5, b has a value of from 0.75 to 1.25, and the sum of a and b has a value of from 2.0 to 2.25; 10 to 30 per cent by weight of a methylpolysiloxane fluid containing between 2.0 and 2.1 methyl radicals per silicon atom and having a viscosity of from 1,000 to 100,000 centistokes; and 20 to 65 per cent by weight of a methylpolysiloxane resin of the general formula

$$(CH_3)_xSiO_{\frac{4-x}{2}}$$

where x has a value of from 1.0 to 1.25; and heating the wetted fabrics at a temperature of 100° F. to 475° F. for a period of from 5 seconds to 1 hour, whereby the fabrics are rendered water-repellent and slip-resistant.

2,588,367

RENDERING CELLULOSIC MATERIAL NON-ADHERENT TO ADHESIVES

Firth L. Dennett, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application May 4, 1950, Serial No. 160,098
6 Claims. (Cl. 260—13)

1. The method of rendering cellulosic fibrous sheet material non-adherent toward materials which normally adhere thereto which comprises wetting the material with an aqueous emulsion of a methylhydrogenpolysiloxane fluid of the empirical formula

$$(CH_3)_aH_bSiO_{\frac{4-a-b}{2}}$$

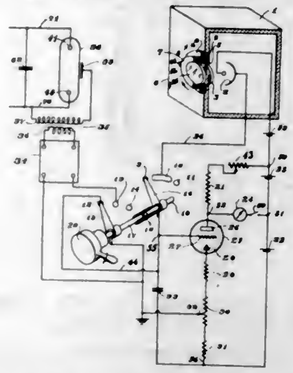
in which a has a value of from 1 to 1.5, b has a value of from 0.75 to 1.25, and the sum of a and b has a value of from 2.0 to 2.25 inclusive, in an aqueous solution of a water soluble cellulose ether; said emulsion containing from 0.1 to 20 per cent by weight of the methylhydrogenpolysiloxane fluid and from 0.1 to 10 per cent by weight of the cellulose ether; and drying the wetted material.

2,588,368

LIGHT INTEGRATOR

Harold E. Edgerton, Belmont, Mass.

Application May 2, 1947, Serial No. 745,471
10 Claims. (Cl. 88—23)



1. Light-integrating apparatus having, in combination and supported thereon in operative relationship, a container provided with an opening, a photosensitive device in the container upon which light may impinge through the opening, an integrating condenser of relatively large capacity, an integrating circuit containing the photosensitive device and the integrating condenser directly connected in series in order that the integrating condenser may become charged to a voltage that is the time integral of the current in the integrating circuit divided by the capacity, whereby the charge upon the integrating condenser is rendered proportional to the total amount of light received by the photosensitive device through the opening, means for adjusting the amount of light that may travel through the opening, and means for indicating the value of the charge integrated on the integrating condenser in accordance with the adjustment of the amount of light that may travel through the opening.

2,588,369

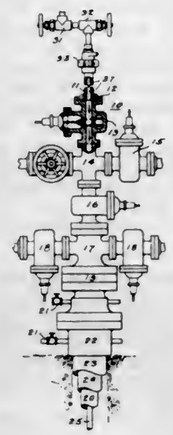
APPARATUS FOR USE IN THE TREATMENT OF OIL, GAS, AND GAS-CONDENSATE WELLS

Charles Kenneth Eilerts, Bartlesville, Okla., assignor to the United States of America as represented by the Secretary of the Interior

Application May 14, 1947, Serial No. 747,990
2 Claims. (Cl. 166—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a producing well having an assembly of equipment including a christmas tree for maintaining the well under pressure, a tubular conduit extending into the well and above the casing head and having a flow controlling valve intermediate its length and positioned above the casing head, a device secured to the upper end of the tubular conduit for the introduction of reagents into the well, while maintaining well production during treatment, said device comprising a connecting section of tubing which forms a charging magazine for a reagent secured to the upper end of the tubular conduit and a main valve secured to the upper end of the section of tubing operable to introduce reagents into said magazine through a passage in said main valve, a fluid injecting pipe terminating in a discharge port into said connecting section of tubing below said main valve, a pressure regulating valve

in said injection pipe for admitting fluid under pressure through said injecting pipe and a pressure gage operably connected in said pipe between said regulating valve and said discharge port, whereby a charge of reagent may be passed by gravity through said open main valve into



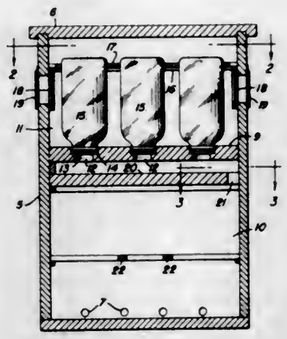
said charging magazine and, upon first closing said main valve and thereafter opening said pressure regulating valve and said flow controlling valve in said tubular conduit, said charge of reagent may be projected downwardly into said tubular conduit for dissolving obstructing incrustations therein.

2,588,370

BEEHIVE

Mintie P. Elliott, Glen Rose, Tex.

Application November 16, 1949, Serial No. 127,653
5 Claims. (Cl. 6—1)



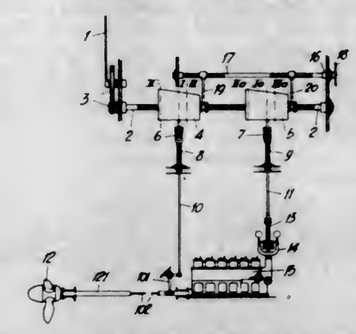
1. A bee hive including a body having a removable lid and provided with openings near the bottom for entrance and exit of bees, a horizontal partition mounted in the body and dividing it into upper and lower compartments, said partition having a plurality of openings counterbored at the top to provide shoulders therein, an inverted jar associated with each opening and having its neck removably fitted in the latter and supported by the shoulder therein, a grating removably supported in the upper compartment and receiving upper portions of said jars to hold the jars upright.

2,588,371

COMBINED PROPELLER PITCH AND ENGINE SPEED CONTROL DEVICE

John Elov Engiesson, Kristinehamn, Sweden

Application January 9, 1946, Serial No. 639,936
In Sweden January 15, 1945
12 Claims. (Cl. 170—135.74)



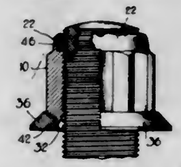
3. A marine variable-pitch screw propeller and a driving and control system therefor, comprising a pitch-varying mechanism connected to said propeller blades for effecting adjustment of the pitch of said blades, an engine for driving said propeller, an adjustable centrifugal speed governor controlling the speed of said engine by controlling the supply of motive fluid thereto, and a combined propeller pitch and engine speed control comprising a first movable adjustment means positively actuating said pitch-varying mechanism in accordance with a predetermined control characteristic, a second movable adjustment means positively actuating said centrifugal governor in accordance with a second predetermined control characteristic, a manually movable operating device, and means connecting said operating device to each of said first and second adjustment means to transmit motion thereto, whereby said first and second adjustment means may be operated simultaneously to different settings by said operating device, and whereby for any given setting, the engine speed and propeller pitch remains substantially constant under different conditions of the sea.

2,588,372

FASTENING DEVICE

George H. Erb, South Orange, N. J., assignor to Elastic Stop Nut Corporation of America, Township of Union, N. J., a corporation of Delaware

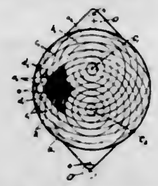
Application May 29, 1945, Serial No. 596,425
6 Claims. (Cl. 85—32)



2. A nut comprising a main circumferentially continuous annular body portion having an internally threaded bore, an outer surface providing a multiplicity of tool engaging flats formed by two hexagons symmetrically offset circumferentially, an annular skirt depending from said main body portion and a conical shoulder around said skirt adjacent one end of the threaded bore, and a separate base ring around said skirt, said ring being of material of greater tensile strength

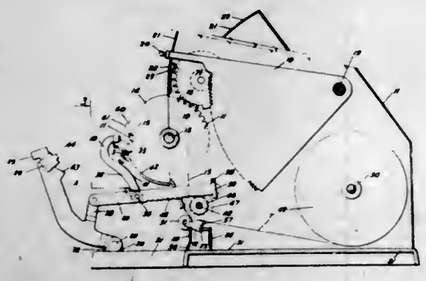
than that of said body portion and having a conical surface closely encircling said skirt and engaging said shoulder for exerting radial compressive force on said body portion when the nut is applied, said ring further being in the form of an annulus of relatively heavy radial cross section as compared with the radial cross section of said annular body portion and having a working engaging surface normal to the axis of the nut, a substantial portion of said surface being located within the circumscribing circle of said annular body portion, said skirt being flared into a portion of the bore of said base ring to retain the latter in place.

2,588,373
KINOPTIC DEVICE
Richard T. Erban, New York, N. Y.
Application October 8, 1947, Serial No. 778,571
4 Claims. (Cl. 88—28.93)



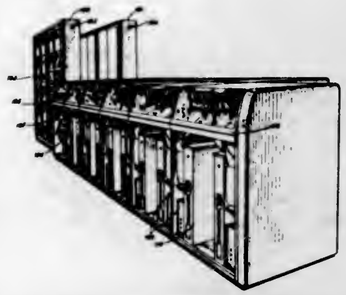
1. An optical device for making visible a projected image, comprising a field lens of the Fresnel type and means imparting to all points of said field lens motion in coplanar and substantially equal sized orbits, said field lens having one of its surfaces composed of several interwoven lenticular systems, each of said lenticular systems consisting of a multitude of minute fractional portions of Fresnel ring elements, said portions being spaced apart laterally from each other with the in-between spaces being occupied by similar fractional portions of Fresnel ring elements belonging to the other lenticular systems, all of said fractional portions of Fresnel ring elements being arranged in substantially equal distribution over the entire surface of said field lens, whereby each of said lenticular systems receives and refracts a substantially equal amount of light independent of the other lenticular systems.

2,588,374
MARKING APPARATUS
Milford A. Erickson, Denver, Colo.
Application January 29, 1946, Serial No. 644,023
11 Claims. (Cl. 93—88)



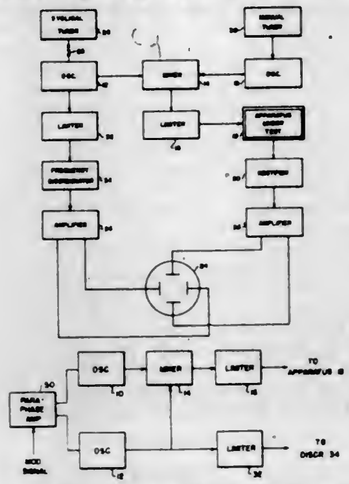
7. In apparatus for marking items of laundry and the like, a frame, indicia means on said frame having type characters for printing indicating marks, tape supply means, rotatable means on the frame for feeding said tape across the indicia means, means for cutting the tape, a pivoted arm movable toward and away from said indicia means, staple supply and driving means on said arm, means on said arm for operating said tape cutting means, and means on said arm for pressing the tape against said characters, a pivoted linkage mechanism attached to said arm for energizing the rotatable tape feeding means, a second arm pivotally mounted on said linkage mechanism, and indicia inking means on said second arm, said arms and linkage mechanism being arranged for successively inking said characters, feeding said tape across the characters, pressing the tape against the inked characters, stapling the tape to the item being marked, and cutting the tape as the first arm is moved forwardly to contact said indicia means.

2,588,375
AUTOMATIC ACCOUNTING DEVICE
Erlon W. Flint, Mountain View, and Alfred E. Hague, West Orange, N. J., and Amos E. Joel, Jr., New York, and Robert O. Rippere, Massapequa, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 24, 1949, Serial No. 101,084
7 Claims. (Cl. 235—61.6)



1. In an automatic accounting system wherein coded records are processed by various types of electrical devices to produce customer bills in a number of steps from records automatically produced by customer uses of given facilities over variable time periods, said records being in the form of perforated tapes, each said device producing one or more new tapes from the records on an old tape as modified by that step in the accounting process for which the particular device is designed, each said tape containing items of specific information pertaining to individual customer uses of the given facilities and items of general information common to many uses of the facilities by many different customers at different times, one of said processing devices being a computer, provided with a plurality of registers, some for registering specific items of information from an old tape and others for registering specific items of information derived by said computer from registered items of information, means for calculating elapsed time from registered items of information, means for releasing the said registers in which said items of information are registered from which said elapsed time is calculated, means responsive to the release of said registers for reading into said registers items of information pertaining to a new call before final disposition of all other registered items of information pertaining to the call whose said elapsed time has been calculated, a supervisory circuit for controlling the said releasing means, a customer charge unit formulating means jointly controlled by said elapsed time calculating means and another specific item of information (billing index) read from said old tape and registered in one of said registers, means in said supervisory circuit responsive to calculated elapsed time or formulated customer charge units exceeding values which may be expressed in two digits for causing the final disposition of a call to be shifted from one to another of the means for producing the said new tapes, and a (short call) relay responsive to a calculated elapsed time of a given maximum value for controlling said releasing means, whereby said releasing means may be operated prior to the said formulation of said customer charge units and said registers may be released at an earlier than normal time.

2,588,376
FREQUENCY RESPONSE ANALYSIS
Benjamin Fox, New York, N. Y.
Application July 3, 1947, Serial No. 758,973
5 Claims. (Cl. 175—183)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



3. In a system for testing the frequency-response characteristics of an apparatus, means generating a pair of waves, means heterodyning said waves to provide a difference-frequency wave, means for simultaneously modulating the frequency of both of said pair of waves in opposite senses to modulate the frequency of said difference-frequency wave, whereby at least two frequency-modulated waves having different percentages of modulation are generated, means for applying the frequency-modulated wave having the higher percentage of modulation to the input of said apparatus, means for deriving from the output of said apparatus an energy component having an instantaneous magnitude which is a function of the response of said apparatus to the instantaneous frequency of the wave applied thereto, and frequency discriminator means deriving solely from the frequency-modulated wave having the lower percentage of modulation an energy component having an instantaneous magnitude which is dependent upon the instantaneous frequency thereof.

2,588,377
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application April 4, 1946, Serial No. 659,508
11 Claims. (Cl. 229—33)



1. In a carton of the class described formed from a single blank comprising a bottom panel and a cover of substantially the same area as the bottom panel, a back wall outer wall member hingedly connected at opposite ends between the said bottom panel and cover, a front wall comprising inner and outer wall members each hingedly connected to the bottom panel along and adjacent the edge opposite to that to which the cover is connected, a back wall inner wall member carried by the blank beyond the portion thereof that forms the cover, for attachment to the bottom panel adjacent the back wall outer wall member, means between said back wall outer wall member and cover whereby the blank may be severed to separate the cover and carton back wall outer wall member, said blank being scored inwardly of the severing means of the blank to provide a panel to depend from the cover for forming a carton cover front flange, side flanges from said cover cooperating with the front flange to embrace the carton proper, and walls from the remaining sides of said bottom panel.

2,588,378
FOAM STABILIZATION
Alexander Frieden, Whitefish Bay, and Harold H. Geller, Milwaukee, Wis.
No Drawing. Application November 5, 1949, Serial No. 125,842
14 Claims. (Cl. 99—48)

1. A method of stabilizing foam in aqueous foam forming liquids which comprises incorporating with such liquids a fraction of a per cent by weight of soluble carboxy methyl hydroxy ethyl cellulose.

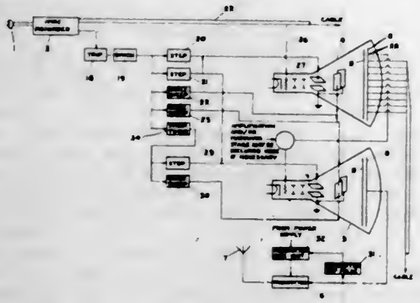
2,588,379
FOAM STABILIZER AND METHOD OF STABILIZING FOAMS
Alexander Frieden, Whitefish Bay, and Harold H. Geller, Milwaukee, Wis.
No Drawing. Application June 2, 1950, Serial No. 165,864
14 Claims. (Cl. 99—48)

1. A method of stabilizing foam in carbonated, alcoholic, protein containing liquids which comprises incorporating with such liquids a fraction of a percent by weight of soluble carboxy methyl hydroxy ethyl cellulose in which the carboxy methyl substitution in the cellulose molecule is not more than 0.7 of a mole per mole of glucose and the hydroxy ethyl substitution in the cellulose molecule is not more than 0.7 of a mole per mole of glucose.

2,588,380
METHOD AND APPARATUS FOR TRANSMITTING INTELLIGENCE BY RADIO WAVES
William W. Cargill, Jr., Madison, Wis.
Application August 3, 1945, Serial No. 606,301
5 Claims. (Cl. 179—100.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

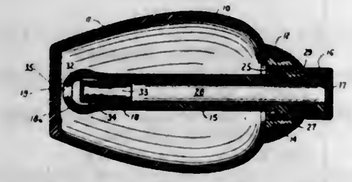
1. In an apparatus of the character described, first detecting means effective to receive a mes-

sage to be transmitted, a first recorder responsive to said first detecting means and effective to retain the message, a plurality of second detecting means, each said second detecting means being effective to receive a predetermined part of the message retained by said first recorder, a plurality of second recorders corresponding respectively to said plurality of second detecting



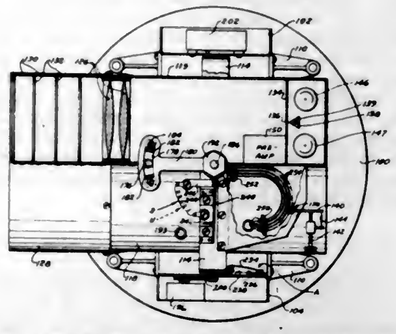
means, each said second recorder being effective to retain that part of the message received by its corresponding second detecting means, a plurality of third detecting means, each said third detecting means being effective to receive a predetermined portion of the parts of the message retained by said second recorders, and means for transmitting the portions of the message received by each said third detecting means.

2,588,381
SYRINGE
Arthur R. Gow, Hamden, and Charles T. Manville, Woodbury, Conn., assignors to The Seamless Rubber Company, New Haven, Conn., a corporation of Connecticut
Application June 13, 1947, Serial No. 754,514
10 Claims. (Cl. 128—232)



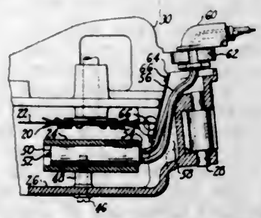
1. In a syringe such as described, an elastic body having a bulb portion and a shield portion integral with each other, the shield portion being provided with a discharge passage, a bushing mounted in said passage, and a douche pipe adapted to be screwed into said bushing with the pipe in an outwardly projecting position or to be screwed into the bushing with the pipe in an inwardly extending position, and closure means for closing the butt end portion of the pipe to prevent outward leakage of liquid when the pipe is in the inwardly extending position, said pipe having between its ends an enlargement carrying screw threads which engage threads in the bushing in both positions of the pipe, said enlargement on the pipe having a shoulder at one end acting as a sealing member in connection with the bushing in one position of the pipe and having at the opposite end a shoulder which acts as a sealing member in the other position of the pipe.

2,588,382
VEHICLE STEERING CONTROL APPARATUS
Laurens Hammond, Chicago, Ill., assignor to Hammond Instrument Company, Chicago, Ill., a corporation of Delaware
Original application January 18, 1943, Serial No. 472,735. Divided and this application July 27, 1944, Serial No. 546,762
14 Claims. (Cl. 244—77)



14. In an air-borne vehicle having azimuthal and vertical steering means and an automatic gyro-pilot mechanism controlling the steering means, said mechanism having two adjusted elements for causing the course of the vehicle to change toward the right or left, and up or down, respectively, the combination of a receptor carried by the vehicle and responsive to a predetermined type of radiation source and operable to provide an electrical signal indicative of whether the source is to the right or left and whether it is above or below the heading of the vehicle; four relay devices; mutually exclusive electrical circuits for energizing the relays in response to the signals from the receptor, the relay energized being determined by the quadrant, relative to the heading of the vehicle, in which the source is located; two reversible electric motors connected to operate said adjusting elements respectively; a pair of control relays associated with each of the motors to determine their direction of rotation; and two electrical circuits completed by the operation of each of said relay devices to energize one of each of the pairs of control relays.

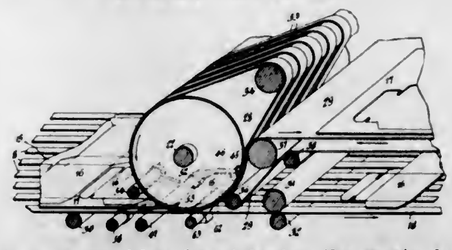
2,588,383
SHOE SEWING MACHINE
Otto R. Haas, Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application May 24, 1949, Serial No. 95,043
7 Claims. (Cl. 112—41)



1. A wax thread shoe sewing machine having a main frame, a hook needle and a needle looper in the frame, a thread tension device, a bracket secured to the frame in which the tension is mounted, and a cover for the tension device hinged to the bracket, in combination with a heater located on and within the cover arranged

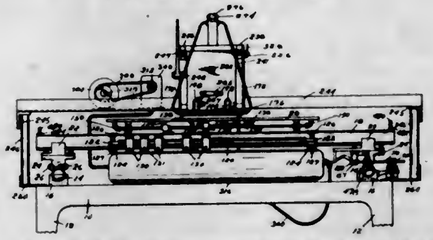
in close spaced relation to the tension device when the cover is closed and movable with the cover to a position more remote from the tension when the cover is opened to enable manipulation of the thread on the tension device without danger of injury to the hands of the operator.

2,588,384
BOX OR CARTON STRIPPER MACHINE
Eric L. Hedstrom, Martin C. Otto, and Cecil E. Gooderham, Buffalo, N. Y.
Application August 10, 1946, Serial No. 689,694
12 Claims. (Cl. 93—58)



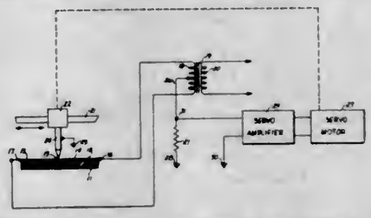
1. In a machine for stripping the waste from a die-cut sheet, comprising relatively movable members between which the sheet is adapted to be presented and against which the die-cut and waste portions of the sheet are respectively urged for stripping such portions from each other upon the relative movement of said members, means on one of said members for releasable gripping engagement with the waste portion of the sheet, and means disposed at the approach side of said members and engageable with the opposite surfaces of the die-cut and waste portions of the sheet for urging them toward said members, respectively.

2,588,385
PRINTING APPARATUS
Herman H. Hillmer and Henry P. Orent, Omaha, Nebr., assignors to Printing Engineers Incorporated, Omaha, Nebr., a corporation of Nebraska
Application August 1, 1947, Serial No. 765,400
3 Claims. (Cl. 95—73)



1. A contact printing machine comprising a horizontally disposed bed on a mounting frame, spaced transversely disposed parallel rails mounted in the frame, supporting brackets mounted to travel on the said transverse rails, spaced longitudinally disposed parallel tracks carried by said supporting brackets, a film holder platform mounted to travel on the said longitudinal tracks, a rectangular shape lamp housing positioned above the said platform, means mounting the lamp housing for vertical travel on the frame and also for vertical travel in relation to the said platform, a shaft having a cam and also a hand lever thereon journaled on the frame, a lug carried by the lamp housing and positioned to coact with the cam for elevating the said lamp housing, a translucent plate mounted in the lower end of the said lamp housing, means retaining a film against the said translucent plate on the lower end of the lamp housing, means pivotally mounting the lamp housing through the upper end thereof on the said frame, whereby the lamp housing is operative from a vertical to a horizontal position, and means for actuating the said lamp housing from the vertical to a horizontal position.

2,588,386
AUTOMATIC GRAPH TRACKER AND METHOD
Charles L. Hubbard, Huntington, Ind., and Achille Capecelatro, Madison, N. J.
Application May 18, 1949, Serial No. 94,034
2 Claims. (Cl. 318—162)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a non-conducting graph, conducting surfaces on opposite sides of and insulated by said graph, means for applying a potential to each of said surfaces, said potentials being different, a graph tracker comprising a crosscarriage adapted for movement along the graph, a follower slidably mounted on said crosscarriage for movement normal to the crosscarriage movement, means for moving said crosscarriage, a contactor on said follower for alternative contact with the graph and adjacent surfaces, a servomotor connected to drive said follower, a phase-sensitive servo amplifier connected to said servomotor to energize said servomotor, and electrical means interconnecting said servo amplifier and contactor for supplying an electric signal to said servo amplifier, whereby said amplifier provides an output signal having a phase corresponding to the sense of the instant deviation of the contactor from said graph, and means coupling the output of said amplifier to said motor.

2,588,387
PUNCTURE-TYPE TESTER FOR AIRPLANE FABRICS
Thomas E. Hughes, Mobile, Ala., assignor of one-half to W. A. Wood
Application February 21, 1950, Serial No. 145,511
8 Claims. (Cl. 73—102)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. A tester for ascertaining the puncture strength of stretched fabric which comprises a main barrel portion of different internal diameters, internal threads on the larger diameter portion, an internally threaded auxiliary barrel portion, a zero-setting sleeve threadedly engaging the two portions, internal and external threads on said sleeve, a locking ring engaging the ex-

ternal threads on the sleeve between the two barrel portions and abutting an end of each barrel portion, a load-adjusting and -indicating plug threadedly engaging the internal threads of said sleeve, a ridged washer positioned within said sleeve at the end of said plug, said plug including means adapted to fit the washer to produce a resilient detent action upon rotation, a plunger extending through said main barrel portion, an internal shoulder at the outer end of said main barrel portion against which said plunger is arranged to abut, a larger diameter portion on said plunger toward its outer end, said larger diameter portion being arranged to abut said internal shoulder and to slidably fit the barrel portion of lesser internal diameter, a compression coil spring encircling said plunger and abutting its larger diameter portion and said washer at opposite ends thereof and point-holding means in the extreme outer end of said plunger.

2,588,388

OXIDATION OF ALKYL-SUBSTITUTED CYCLOHEXANES USING ALDEHYDE-ACTIVATED CATALYSTS

David C. Hull, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 16, 1949, Serial No. 133,341
7 Claims. (Cl. 260—514)

1. A process for the direct and the substantially continuous oxidation of methyl cyclohexane to cyclohexanoic acid wherein a predetermined number of units of the methyl cyclohexane per hour are subjected to the substantially continuous oxidation process which comprises preparing a cobalt acetate catalyst solution in acetic acid by incorporating approximately 3% cobalt acetate in glacial acetic acid, activating this catalyst solution by passing air and acetaldehyde therethrough at a temperature between 30–60° C., adding further cobalt acetate to the catalyst solution to bring the content of the cobalt up to approximately 6%, continuing the treatment of the catalyst solution with air and acetaldehyde for several hours until the catalyst solution is activated, then passing into the activated catalyst solution the methyl cyclohexane to be oxidized, additional acetaldehyde for maintaining the activity of the catalyst and gaseous oxidizing medium, the process being characterized in that the units per hour of acetaldehyde fed to the continuous oxidation process are substantially in excess of the units per hour of methyl cyclohexane continuously fed, maintaining the process under a temperature between −5° and 90° C. and at a pressure such that a substantial part of the solution is maintained in liquid phase, thereafter recovering the cyclohexanoic acid produced.

2,588,389

PROCESS OF PREPARING SILICIC ACID SOLS

Ralph K. Iler, Cleveland Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 19, 1948, Serial No. 34,152
5 Claims. (Cl. 252—313)

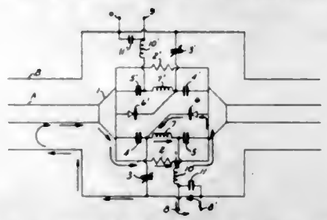
1. The process of preparing a silicic acid sol from an aqueous solution of an alkali metal silicate which comprises adding the solution to an aqueous acidic solution of pH 0.5 to 4 and which contains an insoluble cation-exchanger in its hydrogen form, the addition being effected at such a rate that the pH does not exceed 4, thereafter separating the resulting sol from the cation-exchanger the quantity of the cation-exchanger used being sufficient to absorb substantially all the cation in the quantity of silicate treated.

2,588,390

HIGH-FREQUENCY POWER MEASURING DEVICE

Mack C. Jones, Unionville, Conn.

Application March 30, 1948, Serial No. 17,842
3 Claims. (Cl. 171—95)



1. In a device for measuring standing wave ratio and power in a two-conductor frequency transmission line comprising a mutual inductance for developing a first voltage component proportional to line current and frequency, a voltage divider for developing a second voltage component proportional to line voltage and frequency comprising a capacitor and a resistor whose values are such that the product of the capacitance and resistance of said capacitor and resistor, respectively, and the characteristic impedance of the line is equal to said mutual inductance, means for connecting the voltage divider across the two conductors, a circuit comprising said mutual inductance and said resistor in series and having an output voltage equal to the sum of said voltage components which varies directly with frequency, and a load on the said circuit comprising a capacitor of relatively low reactance compared with the resistance of said resistor, whereby said output voltage is rendered independent of frequency.

2,588,391

16-ALKYL STEROIDS AND PROCESS OF PREPARING

Percy L. Julian, Maywood, and Edwin W. Meyer and Helen Printy, Chicago, Ill., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 22, 1947, Serial No. 749,887
16 Claims. (Cl. 260—397.4)

1. The process which comprises removing the elements of an aliphatic amine from a Mannich base of dehydroisoandrosterone to form a 16-methylene derivative of dehydroisoandrosterone, and hydrogenating said 16-methylene derivative using a Raney nickel catalyst.

2,588,392

PROCESS FOR IMPROVING ALKALI-SOLUBLE ACID-PRECIPITABLE VEGETABLE PROTEIN

Percy L. Julian, Maywood, and Sidney J. Circle, Chicago, Ill., and Robert T. MacDonald, Minneapolis, Minn., assignors to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application April 20, 1948, Serial No. 22,248
15 Claims. (Cl. 260—123.5)

1. The method of refining alkali-soluble, acid-precipitable vegetable seed protein which consists of: (1) providing an aqueous dispersion containing alkali-soluble, acid-precipitable vegetable seed protein which is to be refined; (2) maintaining the pH of said dispersion sufficiently high to keep the said protein dispersed while effecting in its presence the in-situ ionic formation and precipitation of at least one calcium salt having an anion selected from the group consisting of carbonate silicate, phosphate, oxalate and citrate, the quantity of anion of said group being at least sufficient to combine with a major portion of the calcium ions in said dispersion; and (3) removing from the dispersion the precipitate together with such other insoluble matter as may then exist, while the dispersion is maintained at a pH sufficiently high to keep the alkali-soluble, acid-precipitable protein dispersed, thereby to provide a clarified dispersion of refined alkali-soluble acid-precipitable vegetable seed protein.

2,588,393

ORGANOSILOXANE COATING COMPOSITION CONTAINING METHYLHYDROGENSILOXANE FLUID AND DIMETHYLPOLYSILOXANE HIGH POLYMER

Toivo A. Kauppi, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application March 27, 1950, Serial No. 152,260
5 Claims. (Cl. 260—18)

1. An organosiloxane composition comprising a mixture of 38 to 62 per cent (based on siloxane content) by weight of a methylhydrogensiloxane fluid of the general formula

$$(CH_3)_aH_bSiO_{\frac{4-a-b}{2}}$$

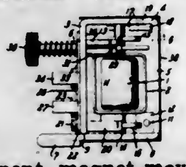
in which a has a value of from 1.0 to 1.5, b has a value of from 0.75 to 1.25, and the sum of a and b has a value of from 2.0 to 2.25; and from 62 to 38 per cent (based on siloxane content) by weight of a dimethylpolysiloxane high polymer which is soluble in benzene and which has a plasticity number greater than 30 expressed in thousandths of an inch, said plasticity number being determined upon a 4.2 gram test sample at 25° C. with a 3 minute duration of load in accordance with ASTM–D926–47T.

2,588,394

PERMANENT MAGNET CORE METER

Anthony H. Lamb, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application March 26, 1945, Serial No. 584,759
6 Claims. (Cl. 171—95)



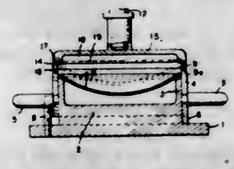
1. A permanent magnet-moving coil instrument comprising a movable coil of rectangular form, a transversely charged cylindrical permanent magnet core within said coil and with the cylindrical axis thereof parallel to the major axis of said coil, said core having a plane of maximum magnetic intensity, a rectangular frame surrounding said coil and core in the plane of maximum magnetic intensity of said core, and bearing means mounted in said rectangular frame to support said coil for pivotal movement about its major axis; said frame comprising soft strap iron providing a return path for the magnetic flux of the permanent magnet, the return path extending along and in spaced parallel relation to a short side of said coil.

2,588,395

DISK FLEXING AND INSTALLING APPARATUS

Joseph P. Lannen, Detroit, Mich., assignor to Micro-Poise Engineering and Sales Company, Detroit, Mich., a partnership

Application January 12, 1951, Serial No. 205,755
7 Claims. (Cl. 29—210)



1. A disk flexing and installing apparatus, comprising a base, an annulus rigidly upstanding from the base and having a disk-seating rim, a collar exteriorly applied to said annulus and adapted for both rotative and vertical travel on the annulus, the base having a portion underlying and forming a seat for the collar, said collar and underlying portion having a plurality of circumferentially spaced spacer elements formed on one thereof and an equal number of similarly spaced sockets formed in the other thereof, the sockets receiving said elements in a predetermined rotative and lowered position of the collar, and said elements being spaced circumferentially from the sockets in a predetermined rotative and raised position of the collar, means on the collar for actuating it rotatively and vertically, and a ring removably surmounting the collar and having an interior face coaxial with the collar and of slightly greater diameter than the interior face of the collar, said ring extending substantially above the annulus, in the lowered position of the collar to confine a disk seated on the annulus during downward flexure of the disk, the raised position of the collar serving to maintain such flexure of the disk, upon removal of said ring from the collar.

2,588,396

PYROLYSIS OF STEROID PRODUCTS

Robert H. Levin, A. Vern McIntosh, Jr., and George B. Spero, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application January 3, 1950, Serial No. 136,656
15 Claims. (Cl. 260—397.1)

1. An alkyl 3-acyloxy-bisnor-5,7,9(11)-cholatrienate, wherein the acyloxy group is the residue of an unsubstituted organic monocarboxylic acid having from one to ten carbon atoms, inclusive.

2,588,397

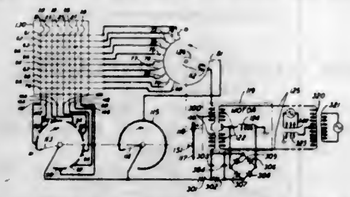
SPACED-PULSE IMPULSE SENDER

Clarence A. Lovell, Summit, and David B. Parkinson, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 29, 1948, Serial No. 35,927
16 Claims. (Cl. 179—90)

1. A telephone calling device comprising an electric line, a condenser, means for charging

said condenser, interconnecting means including a plurality of switches interconnected between said condenser and said line, apparatus for operating said switches at predetermined times, and

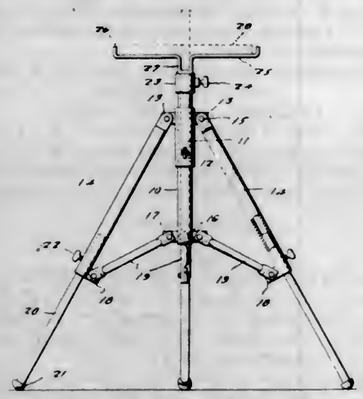


circuit means interconnecting said switches and said condenser and said line for abruptly changing the charge on said condenser whereby a plurality of pulses of electric current from said condenser are transmitted over said line.

2,588,398
PREPARATION OF GRANULAR POLYMERS
William C. Mast, Philadelphia, and Charles H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application November 16, 1948, Serial No. 60,394
8 Claims. (Cl. 260—86.1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. The polymerization method which comprises forming a mixture containing water and a lower alkyl acrylate in a weight relation of about 5 to 55 parts water to 100 parts of the alkyl acrylate, inducing polymerization by heating in the presence of a polymerization catalyst while stirring and kneading the mixture thereby causing coalescence of the partially polymerized monomer and subjecting the resulting agglomerate of partially polymerized monomer to kneading in contact with the aqueous phase of the mixture, to form a granular polymer, the process being further defined as a non-suspension process carried out under non-emulsifying conditions and without dissolution of the polymerizable material in organic solvent.

2,588,399
SCAFFOLD SUPPORT
Clarence F. McQuin, Milwaukee, Wis.
Application April 8, 1949, Serial No. 86,357
1 Claim. (Cl. 304—4)



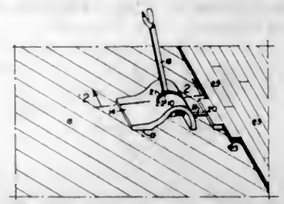
A headplate for a scaffold jack tripod comprising a cylindrical stem receiving socket and an elongated metal strip mounted on said socket, said strip having its opposite end flanges extending perpendicularly in the same direction therefrom and having at its mid-length location a U shaped formation extending from said strip in the direction opposite said flanges and secured at its end remote from the remainder of said strip to said socket, said headplate having between said flanges a length sufficient to receive the width of a scaffold board and said U shaped formation having an interior width sufficient to receive the thickness of a scaffold board and a depth sufficient to firmly support such a board in an edgewise position.

2,588,400
ARTIFICIAL BAIT
Charles G. McRoberts, Brooklyn, N. Y.
Application December 31, 1946, Serial No. 719,493
3 Claims. (Cl. 43—42.04)



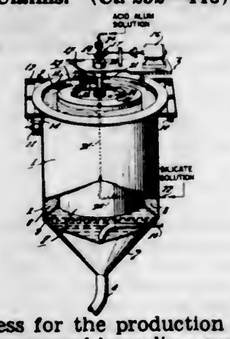
2. An artificial bait comprising a streamlined spoon connected at its leading end with a fish line and apertured at the trailing end thereof for the introduction and removal of the hook ends of various size fish hooks, each fish hook having an eyelet on one end and a hook on the other end, an artificial bait member, a wire weed guard for said artificial bait member, a spring strip extending longitudinally of said spoon, said wire weed guard passing through an opening in said spring strip and terminating in an eyelet at one end, and securing means for mounting said spring strip with respect to said spoon, said securing means being connected with said artificial bait member and extending through said spring strip and through the eyelet end of said wire weed guard and being connected with said spoon, and a detent on said spring strip for detachably engaging the eyelet end of a fish hook introduced through the apertured end of said spoon.

2,588,401
FLOOR-LAYING TOOL
William A. Miller, near Weston, Colo.
Application April 21, 1949, Serial No. 88,755
1 Claim. (Cl. 254—15)



In a tool of the character and for the purposes described, an integral, upwardly-arched base unit of considerable mass open at its ends, a relatively-wider and a relatively-narrower, flat, floor-engaging face terminating the respective arch legs in a common plane parallel to the arch axis and extending the full length of the arch, integral penetrating points projecting perpendicularly from said faces, a tread surface opposed to said wider face and merging into said arch for the application of pressure to effect seating of said wider face penetrating points, a slot aperture formed through the arch crown midlength perpendicular to the arch axis and extending through the arch leg terminating in the relatively-narrower face to an end spacedly-adjacent said latter face, integral webs depending interiorly of said arch on opposite sides of said slot aperture to mount a hinge pin parallel to the arch axis, a lever mounted on said hinge pin for oscillation through said slot aperture and terminating in a handle above the arch, ratchet teeth formed in one side of the slot aperture, a detent on said lever in latching cooperation with said teeth, a projection of said lever below the hinge pin interiorly of the arch, a link hinged to the end of said lever projection to slide through the slot aperture in bearing engagement with the end of the latter adjacent the relatively-narrower face, and a pressure block on the free end of said link exteriorly of the arch.

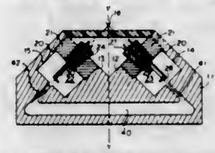
2,588,402
PROCESS AND APPARATUS FOR PRODUCING HYDROGEL BEADS
Thomas H. Milliken, Jr., Chester, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application August 2, 1948, Serial No. 41,983
17 Claims. (Cl. 252—448)



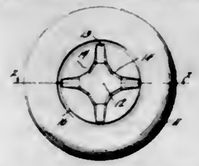
1. The process for the production of hydrogel particles having curved bounding surfaces which comprises horizontally ejecting from a moving orifice a narrow stream of hydrosol capable of setting to hydrogel and laying the ejected stream on the surface of a body of water-immiscible liquid of substantial depth, said surface being below the level of ejection, moving the point of ejection in a horizontal plane and in a direction opposite to the direction of ejection, maintaining the linear rate of ejection substantially equal to the linear rate of movement of the point of ejection, whereby as a result of interfacial tension said stream of hydrosol so laid down on the surface of said water-immiscible liquid is divided into globules which set as hydrogel in said body of water-immiscible liquid.

2,588,403
COMPENSATED CONVECTION CURRENT RESPONSIVE INSTRUMENT
Clarke C. Minter, Washington, D. C.
Application April 3, 1950, Serial No. 153,681
6 Claims. (Cl. 201—48)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A measuring instrument comprising a pair of similar convection current means of the type including a gas-filled cylindrical cavity structure and an electrically heated resistance wire lying in the longitudinal axis of the cavity structure, means mounting the convection current means with the longitudinal axes thereof lying in a common plane equally disposed about a common axis, a gas-filled reservoir symmetrically positioned in said common plane, means forming a gas connection from spaced points of said reservoir to said cavity structures through conduits axially aligned with said longitudinal axes, and means producing an output potential as a function of the resistance values of said resistance wires.

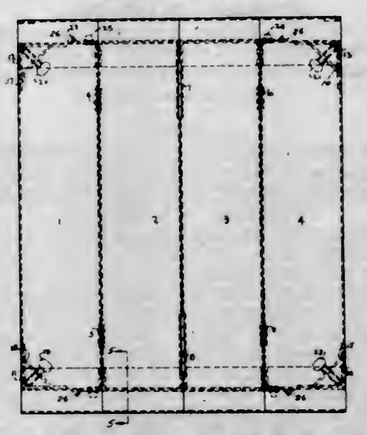


2,588,404
FASTENING DEVICE AND METHOD OF MAKING SAME
Herman G. Muenchinger, South Foster, R. I.
Application September 4, 1946, Serial No. 694,715
3 Claims. (Cl. 85—45)



2. The method of manufacturing screws and like fastening devices having recesses of cruciform plan punched in the head thereof, comprising driving a recess forming punch into the upset end of the screw blanks, and toward the end of the punching stroke punching an annular second recess, concentric to the axis of said first recess, into the upper surface of the partially formed head for forcing the side walls of the first recess into firm engagement with the surface of the punch, and then checking the alignment of said first recess with the longitudinal axis of the screw blank by determining the concentricity of said second recess with the shank of said blank.

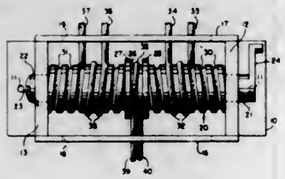
2,588,405
FOLDING TABLE
Nelson W. Munger, Detroit, Mich.
Application June 28, 1946, Serial No. 680,198
3 Claims. (Cl. 311—90)



1. A folding table comprising a series of leaves hingedly joined longitudinally and foldable one

upon the other in alternate relation, leg elements detachably supported and secured in the outer corners of each of the end leaves of the series, spring clips secured to the under sides of the outer leaves, a leaf supporting bar detachably secured at its ends within said clips and bearing against the under surfaces of said leaves for transversely supporting the same against deflection, and spaced lugs secured to the under sides of said outer leaves and positioned to retainingly engage opposite ends of said bar to prevent longitudinal displacement thereof.

2,588,406
VARIABLE INDUCTIVE COUPLER
Ivan Keith Munson, Forrest Heights, Md.
Application October 25, 1948, Serial No. 56,321
9 Claims. (Cl. 171—119)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



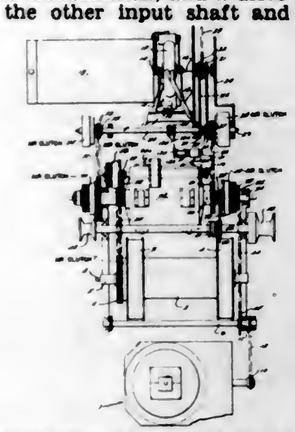
3. A variable coupling transformer comprising a rod of insulating material journaled for rotation, the rod having a right-hand helical groove on one side of its central portion and a left-hand helical groove on the other side of the central portion, a helical coil of wire wound in each of the helical grooves, a third coil of wire positioned between the helical coils, support means for preventing rotation of the coils, and means for rotating the rod.

2,588,407
INSECT REPELLENT
Melvin S. Newman, Columbus, Ohio, and Barney J. Magerlein, Kalamazoo, Mich., assignors to the United States of America as represented by the Secretary of the Army
No Drawing. Application December 29, 1948, Serial No. 68,045
6 Claims. (Cl. 167—33)

1. An insect repellent composition comprising 4 - hydroxymethyl - 2 - methyl - 2 - phenyl - 1,3-dioxolane in a non-gaseous inert organic carrier.

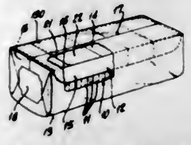
2,588,408
OIL WELL DRILLING TRANSMISSION
Charles M. O'Leary, Los Angeles, Calif.
Application May 8, 1947, Serial No. 746,664
13 Claims. (Cl. 255—19)

1. Mechanism for operating a rotary well drilling machine and automatically controlling the drill bit pressure, including a hoisting drum operating shaft, a table operating shaft, a pair of independently operable power input shafts, a differential gear set having three interconnected rotary members, a drive connection between one of said members and one of said input shafts, a drive connection between the second of said members and the table shaft, and a positive drive connection between the third of said members and said drum shaft, said last mentioned drive connection including a change-speed ratio positive torque transmission, and a drive connection between the other input shaft and the drum



shaft independent of said change speed transmission.

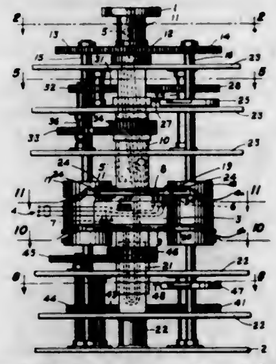
2,588,409
PACKAGE AND ENCLOSED TRAY THEREOF
Thomas S. Olsen, Pleasantville, N. Y., assignor to General Baking Company, New York, N. Y., a corporation of New York
Application March 29, 1949, Serial No. 84,240
2 Claims. (Cl. 229—72)



1. A substantially flat tray blank of the type described comprising a rectangular piece of cardboard defined into three elongated panels by a pair of substantially parallel, longitudinally-extending, fold-defining score lines so that the side edges may be turned up to provide side wall panels flanking a bottom panel, said bottom panel being provided at one end with a discharge slot of such width longitudinally of said blank and dimension as to accommodate edgewise discharge of at least one of a plurality of slabs of appreciable width and thickness adapted to be rested edgewise transversely on said bottom panel, said three panels having at the end opposite the slotted end of said bottom panel a pair of substantially parallel score lines extending transversely across all three of said panels with the distance between said score lines being substantially equal to the distance between the outermost one and the adjacent end of the blank, said transverse score lines being of a fold-defining type in the portions extending across said bottom panel and being of a weakened break-away type in the portions extending across said side wall panels.

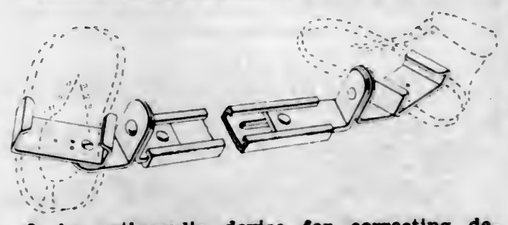
2,588,410
ELECTRICAL CONDUCTING MEANS FOR RELATIVELY ROTATING STRUCTURES
Forrest M. Price and Robert M. Johnston, United States Navy
Application November 20, 1946, Serial No. 711,080
6 Claims. (Cl. 191—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Means for maintaining electrical continuity between a source of electric current and an electrical device which may be rotatable in either direction relative to said current source, two relatively rotatable members, one for supporting said electrical device, two spaced parallelly arranged terminal plates, a pair of electrical cables in parallel electrical relationship, one end of each cable being connected to said electrical device and the other end of each cable being connected to terminals on a different one of said terminal plates, power take-off means connected between said relatively rotatable members, terminals supported on the other of said relatively rotatable members and disposable in alignment with said plate terminals for connection to said current source,



means actuable by said power take-off means for successively and alternately connecting and disconnecting the plate terminals of first one and then the other of said terminal plates to the terminals on said other rotatable member to electrically connect said current source and electrical device through said electrical cables, said cables being twisted while connected to the terminals on said other rotatable member during relative rotation of said two members, and means actuable by said power take-off means for rotating first one and then the other of said terminal plates relative to said other member during disconnection thereof for removing the cable twist of first one and then the other of said cables.

2,588,411
BRACE FOR CORRECTING DEFORMITIES IN THE FEET OF CHILDREN
Kenneth G. Robinson, Norfolk, Va.
Application December 20, 1949, Serial No. 134,073
4 Claims. (Cl. 128—80)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

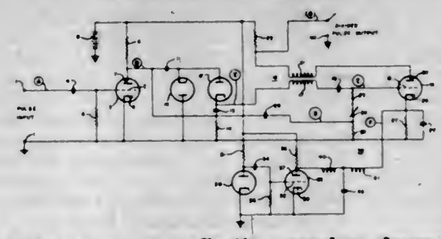


3. An orthopedic device for correcting deformities in children's feet comprising a pair of elongated members, means connecting said members for free longitudinal movement relative to each other, means limiting said free relative longitudinal movement, outer end portions extending at right angles to each of said elongated members, a pair of right angle members each having one arm freely pivoted in face to face relation to one of said right angle end portions of said elongated members, and shoe clips mounted on the other arms of said pair of pivoted right angle members.

2,588,412
MINERAL OIL COMPOSITIONS
Albert G. Rocchini, Springdale, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application September 16, 1948, Serial No. 49,660
5 Claims. (Cl. 252—51.5)

1. An improved mineral oil composition comprising a major amount of a mineral oil and dissolved in said oil a minor amount of a water-insoluble reaction product obtained by a process comprising maintaining a mixture of about equimolecular quantities of mixed alkenyl-substituted succinic acid anhydrides in which the alkenyl substituents contain an average of about 10 to 12 carbon atoms and an amine selected from the group consisting of trimethylamine, triethylamine, triamylamine, triethanolamine, tribenzylamine, tristearyl-triethanolamine, triethanolamine-ethylphosphatidic acid and pyridine, at an elevated reaction temperature of about 250° F. for about 5 minutes, the amount of said reaction product being sufficient to impart corrosion-inhibiting properties to said composition.

2,588,413
RANDOM FREQUENCY DIVIDER
Erwin M. Roschke, Broadview, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application June 11, 1948, Serial No. 32,457
6 Claims. (Cl. 250—27)

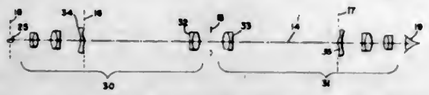


1. A system for effecting random frequency division of a received periodic signal having a certain repetition frequency including: a storage circuit for developing an increment of potential in response to each cycle of said received signal; a random-signal generator; a controlled signal generator for producing an output signal in response to an applied control potential of a preselected magnitude large compared to said individual potential increments; and means for cumulatively applying the potential developed in said storage circuit and the output signal of said random generator as a control potential to said controlled generator.

2,588,414
ASPHERICAL CORRECTOR LENS FOR OPTICAL SYSTEMS
Seymour Rosin, New York, N. Y., assignor to Farrand Optical Co., Inc., a corporation of New York
Application September 11, 1946, Serial No. 696,237
4 Claims. (Cl. 88—32)

1. In a telescopic optical system having an objective and an eyepiece, said objective and eye-

piece being corrected to minimize the aberrations in the images of distant objects produced by the system, said system being afflicted with spherical aberration of the exit pupil thereof, a corrector lens located at or adjacent the primary focal



plane of the eyepiece, said corrector lens having an aspherical surface figured to correct the spherical aberration of the exit pupil caused by the lens elements between the aperture stop of the system and the exit pupil.

2,588,415

MEANS FOR CENTRIFUGAL DYEING

Robert A. Russell, Alexandria City, Ala., assignor to The Russell Manufacturing Company, a corporation of Alabama

Application May 20, 1950, Serial No. 163,176
3 Claims. (Cl. 68—23)



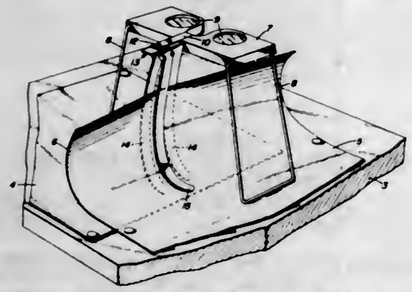
1. Means for dyeing a textile yarn package, comprising a hollow spindle, means to rotate said spindle, sets of perforations in said spindle, said sets of perforations being axially spaced, a partition within said spindle between said sets, a partition at one end of said spindle, the other end of said spindle being closed, axial openings in said partitions, a yarn package carrier on said spindle, means to mount said carrier for rotation with said spindle, a cylindrical bore within said carrier, and flanges extending radially inwardly of said bore in registry with said partitions and said closed end of said bore of said spindle, and contacting said spindle, and perforations leading from said bore to the exterior of said carrier, said carrier having a conical exterior surface.

2,588,416

STEREOSCOPE ATTACHMENT FOR PRINT LIFTING

Donald W. Sawyer, Rochester, N. Y.

Application April 28, 1949, Serial No. 90,211
7 Claims. (Cl. 88—29)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



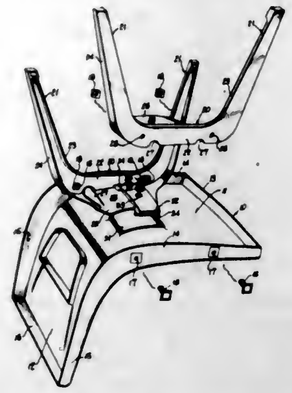
1. An instrument including a stereoscope of the class described, comprising a support having legs movable over a horizontal surface, and a plurality of curved fingers suspended from said support in offset relation to each other, said fingers being of approximately the same length as said legs.

2,588,417

FURNITURE CONSTRUCTION FEATURING LEG STRUCTURES AND MOUNTING MEANS THEREFOR

Peter Schladermundt, Bronxville, N. Y., and Charles L. Metzler, Palisades Park, N. J., assignors to Valley Upholstery Corp., New York, N. Y.

Application October 19, 1948, Serial No. 55,314
7 Claims. (Cl. 155—196)



1. An article of furniture comprising, in combination, a body having a pair of downwardly-extending side flanges arranged in spaced-apart relation on opposite sides thereof with each having an inner downwardly-extending bearing face, a pair of leg units each comprising an arched member providing two spaced leg elements extending downwardly from opposite ends of a transversely-extending mid-section with the latter having on its outer side a bearing face located adjacent one of said inner body flange bearing faces, each of said leg unit mid-sections having a lateral load-supporting flange extending inwardly an appreciable distance from the inner side thereof with both of the load-supporting flanges located beneath said body between the side flanges of the latter and extending toward each other while being substantially rigidly connected together, and means fastening said mid-sections to said body.

2,588,418

EXPANSION OF COMPRESSED CORK PARTICLES BY STEAMING

Carl J. Schaller, Lancaster, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

No Drawing. Application June 28, 1947, Serial No. 757,955
9 Claims. (Cl. 252—378)

1. A method of expanding compressed cork particles having a permanent set and which are normally from 5 to 10 mesh to 20 to 50 mesh comprising exposing said particles to steam at atmospheric pressure until said particles have obtained substantially the density obtaining therein prior to compression without changing the chemical structure of said particles.

2,588,419

WHIPPING COMPOSITION

Herbert E. Sevall and Raymond P. Schaeffer, Elgin, Ill., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application October 6, 1949, Serial No. 119,987
8 Claims. (Cl. 99—114)

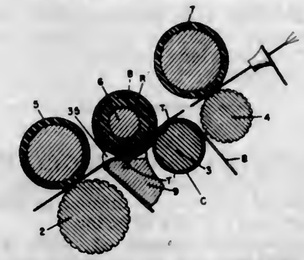
1. A whipping composition, for use in making frappé, mazetta, and like whipped products of high sugar content, comprising water soluble degraded soy protein and sodium phosphate serving as stabilizer for the degraded protein when the the composition is whipped in an aqueous medium.

2,588,420

TEXTILE DRAFTING MECHANISM

Benjamin C. Shaw, Biddeford, Maine, assignor to Saco-Lowell Shops, Boston, Mass., a corporation of Maine

Application August 18, 1948, Serial No. 44,907
14 Claims. (Cl. 19—131)



1. A drafting mechanism of the character described having a drafting zone comprising a pair of delivery rolls at one end and a pair of holding rolls at its opposite end, means supporting said rolls to act simultaneously on portions of a sliver spaced apart by a distance greater than the average fiber length of the sliver to feed and draft it, mechanism for revolving said rolls at the speeds necessary to produce the desired draft, and a rotary fiber control mechanism mounted between said pairs of rolls and through which said sliver is drawn by said delivery rolls, said control mechanism comprising an endless underlying sliver-supporting apron, a lower apron driving roll within said apron, an upper roll in contact with said apron and mounted above said driving roll and said apron, one of said rolls having different effective diameters, the outer peripheral end portions of said roll having a diameter sufficient to provide firm pressure contact of said end portions with said apron, the central portion of said roll having a smooth peripheral surface and being of lesser effective diameter to provide between the central portions of said roll and its opposing roll a light frictional grip on the fibers of the sliver being drafted between said apron and said upper roll.

2,588,421

APPLICATION OF SPRAYED METAL COATINGS TO SOLID OBJECTS

Arthur P. Shepard, Flushing, N. Y., assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y., a corporation of New Jersey

No Drawing. Application December 19, 1947, Serial No. 792,835
14 Claims. (Cl. 117—71)

1. In the method for applying spray metal to a substantially inorganic surface with a high degree of bond, the improvement which comprises conditioning such surface for spray metal bonding by spraying from substantially molten condition at least a flash coating of molybdenum thereon and thereafter spraying from substantially molten condition metal onto the thusly coated surface.

2,588,422

APPLICATION OF SPRAY METAL LININGS FOR ALUMINUM ENGINE CYLINDERS OF OR FOR RECIPROCATING ENGINES

Arthur P. Shepard, Flushing, N. Y., assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y., a corporation of New Jersey

No Drawing. Application December 19, 1947, Serial No. 792,836
7 Claims. (Cl. 309—3)

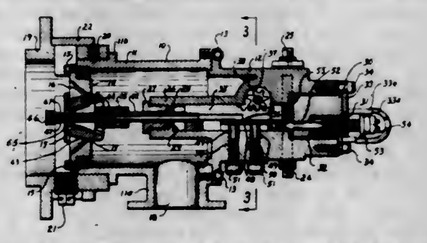
1. A spray metal lined aluminum engine cylinder which comprises an engine cylinder having an aluminum bore surface, a layer of spray metal, and intermediate said layer of spray metal and said bore surface, in surface-to-surface bond therewith, sprayed molybdenum of at least flash coating thickness.

2,588,423

OIL BURNER WITH CO-ORDINATED AIR AND OIL VALVES

Robert E. Simmons, Denver, Colo., assignor to Denver Fire Clay Company, Denver, Colo., a corporation of Colorado

Application July 21, 1947, Serial No. 762,343
3 Claims. (Cl. 158—76)



3. An oil burner comprising a housing having a straight bore and an inlet, a ring having inwardly converging inner walls secured to the housing defining a central discharge opening, a hollow axially disposed boss projecting into the housing and closing the opposite end thereof, a hollow atomizer shaft having an oil passage and reciprocably sealed in the boss and projecting axially in a forward direction beyond said ring, said shaft having a single oil inlet communicating with the interior of the boss and a plurality of radially disposed atomizing outlets in its forward portion beyond the ring, an oil orifice block in the boss having a flat surface engaging the surface of the atomizer shaft over the said oil inlet for substantially sealing the inlet when the shaft is in its most forward position, said orifice block having a groove formed therein, the depth of which increases rearwardly from the flat surface for increasing the flow of oil through the shaft inlet as the shaft is moved rearwardly, a hollow conical air valve member carried by the shaft having a wall converging forwardly, a laterally extending base flange movable into sealing engagement with the inner surface of the ring, and an axial bore defining a cylindrical air passage around the shaft, the outlet of which is near the atomizing opening, a screw extending through the boss into engagement with the oil orifice plate for moving said block forwardly and rearwardly along the shaft within the boss, resilient means in the housing for urging the

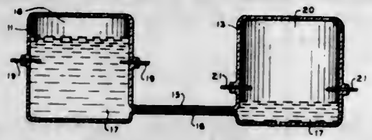
oil orifice block into sealing engagement with the surface of the shaft, means for supplying oil under pressure to the interior of the boss, a transvere shaft journaled in the housing and having an end external thereto, means on the transverse shaft engaging the atomizer shaft for reciprocating the latter within the boss, and an external indicator on the transverse shaft for indicating the relative position of the air valve.

2,588,424

ELECTRIC SWITCH

Harry B. Speaker, Neptune, N. J., assignor to the United States of America as represented by the Secretary of the Army

Application October 12, 1949, Serial No. 121,045
6 Claims. (Cl. 200—52)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An acceleration operated electric switch comprising, a closed lower pressure chamber, a closed higher pressure chamber, a conduit provided with a delay channel interconnecting said chambers, a mobile electrical conductor within said chambers and channel, gas in each of said chambers, the gas in said lower pressure chamber being more rarified than the gas in said higher pressure chamber, said mobile conductor extending, in one of said chambers, to unoperated and operated levels when said switch is in unoperated and operated conditions respectively, at least one electrical terminal in said last-mentioned chamber at a position intermediate said unoperated and operated levels, so that, when said mobile conductor is at one of said levels, it is in electrical contact with said terminal and, when it is at the other of said levels, it is electrically disconnected from said terminal.

2,588,425

PREPARATION OF TETRA-ISOBUTYLENE

Donald R. Stevens, Wilkinsburg, and Robert S. Bowman, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application December 4, 1947, Serial No. 789,744
10 Claims. (Cl. 260—683.15)

1. The process for preparing tetra-isobutylene which comprises contacting di-isobutylene with a boron trifluoride-ether complex at a temperature between about 0° C. and about 55° C.

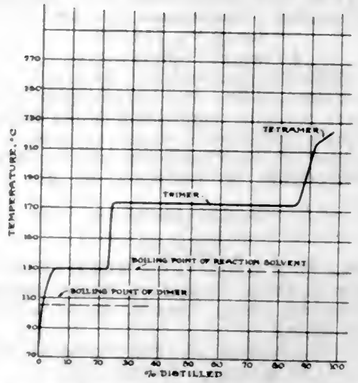
2,588,426

PREPARATION OF TRI-ISOBUTYLENE

Donald R. Stevens, Wilkinsburg, and Robert S. Bowman, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application December 4, 1947, Serial No. 789,746
5 Claims. (Cl. 260—683.15)

1. A process for preparing narrow boiling range tri-isobutylene which comprises introducing isobutylene below the surface of a liquid body comprising an equimolecular boron trifluoride-ether complex at substantially the maximum absorption rate while maintaining said liquid body at about 15° to 70° C. and at atmospheric pressure to form a resultant product consisting predominantly of narrow boiling range tri-isobutylene and being substantially free of di-isobutylene, washing the



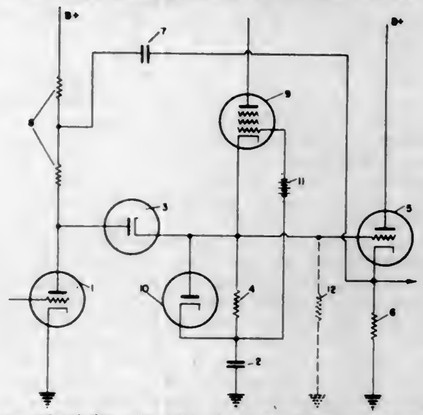
resultant product with aqueous alkali and water, and fractionally distilling the washed product to recover tri-isobutylene boiling over a narrow temperature range.

2,588,427

CONDENSER CHARGE REGULATION

Theodore W. Stringfield, Portland, Oreg., assignor to the United States of America as represented by the Secretary of the Interior

Original application March 31, 1949, Serial No. 84,666. Divided and this application May 18, 1950, Serial No. 162,771
1 Claim. (Cl. 320—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



An electric circuit for storing measurable quantities of electric energy comprising a first triode including a plate, cathode, and control grid, the plate of which is connected through a first resistor to a source of positive electrical potential, a condenser connected in series with a second resistor, a first diode and the plate-cathode path of said first triode, one terminal of said condenser being connected to the cathode of said first triode, the plate of said first diode being connected to the plate of said first triode, a second diode connected in shunt with said second resistor, the cathode of said second diode being connected to the junction of said second resistor and said condenser, a second triode including a plate, cathode and control electrode, the plate of said second triode being connected to a source of positive electrical potential, the cathode of said second triode being connected to ground through a load resistor, the control grid of said second triode being connected to the junction of said second resistor and said first and second diodes, a connection between the cathode of said second triode and a tap on the mid-portion of said first resistor, an electrical discharge device having at least a plate, cathode, and control grid, a connection from the control grid of said electrical discharged device to the junction of said second resistor and said first and second diodes, and means to normally bias the control grid of said electrical discharge device negatively.

2,588,428

COMPLEX AMINE PRODUCTS WITH DI-ALKYL ZINC DITHIOCARBAMATES AS PESTICIDES

William D. Stewart and John H. Standen, Yonkers, N. Y., assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application April 2, 1945, Serial No. 586,281
14 Claims. (Cl. 167—22)

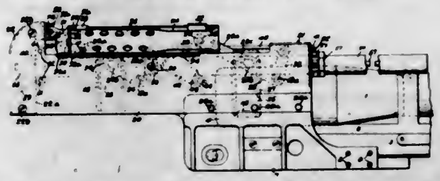
1. A method of protecting materials which are capable of nourishing bacteria, fungi and insects from destruction by said pests which comprises bringing the material into contact with the addition product of an aliphatic substituted zinc dithoicarbamate and an amine having at least one hydrogen atom in the amino group.

2,588,429

RECOIL-CONTROLLED AMMUNITION FEEDING MEANS FOR GUNS

William Summerbell, Washington, D. C.; Edith May Summerbell, executrix of said William Summerbell, deceased

Application September 4, 1947, Serial No. 772,042
11 Claims. (Cl. 89—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



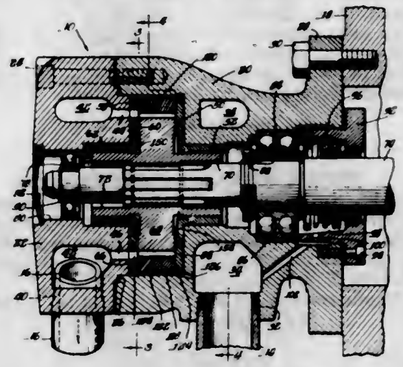
6. In a firearm having a cradle and a barrel supported on the cradle for recoil and counter-recoil, the combination therewith, of a housing fixedly carried by the cradle, first and second bellcranks pivoted on said housing on parallel longitudinally spaced axes, a link connecting said bellcranks for synchronous pivotal movement, a cartridge tray pivoted to corresponding ends of each said bellcranks and movable therewith from a first, elevated loading position to a second depressed ramming position in alignment with the bore of barrel, spring means urging said tray into depressed position, a rammer, means supported by said cradle independently of said tray for mounting said rammer for longitudinal movement to a retracted position by and in response to recoil of the barrel, spring means urging said rammer forwardly when retracted, latch means operable to hold said rammer in retracted position, and cam means carried by said link and operable to engage and release said latch means as said tray moves into depressed position whereby said rammer means is released to ram a cartridge on said tray into the barrel chamber.

2,588,430

ROTARY BLADE PUMP

Ernest J. Svenson, Rockford, Ill., assignor to Odin Corporation, Chicago, Ill., a corporation of Illinois

Application October 15, 1945, Serial No. 622,397
4 Claims. (Cl. 103—135)



1. A rotary high pressure blade pump comprising a housing, composed of a pair of complementary housing parts, a rotor drive shaft, a rotor including oppositely projecting cylindrical portions embracing the drive shaft and an intermediate flange portion disposed between said housing parts and in which blade slots are provided, blades reciprocable in said slots and operable to propel fluid, each of said housing parts having an annular channel around and spaced from the drive shaft and forming, respectively, inlet and exhaust passages for fluid, a single pair of diametrically opposed inlet ports in one of said housing parts communicating with the inlet passage therein and arranged to transmit the full flow of inlet fluid to the rotor, a single pair of diametrically opposed exhaust ports in the other housing part communicating with the exhaust passage therein to transmit the full flow of exhaust fluid from the rotor, means providing a pair of side plates disposed in said housing on opposite sides of said rotor, each of said side plates including a central cylindrical hub portion projecting therefrom to embrace a cylindrical portion of the rotor and a flange portion disposed between the adjacent side of the rotor flange and the adjacent housing part, the flange portions of said side plates including inlet and exhaust ports registering, respectively, with the adjacent inlet and exhaust ports in said housing parts, each port of each pair of inlet and exhaust ports being disposed in the vicinity of the outer periphery of the rotor and the blades carried thereby and of limited circumferential extent to provide between adjacent ends of the ports of each pair a continuous planar barrier surface of greater circumferential extent than the extent of said ports, said barrier surface being in planar contact with the rotor between the said ports and including a continuous annular sealing portion disposed inwardly of said ports in contact with the rotor and of such radial extent as to exclude inlet fluid pressure from the inner ends of the blade slots and from the vicinity of the cylindrical portions of the rotor and resisting leakage of fluid tracked by adjacent edges of the rotor blades, the said inlet ports being disposed in quadrature relative to the exhaust ports with adjacent ends of the inlet and exhaust ports spaced circumferentially from one another and relative to the spacing of the rotor blades such that at least one rotor blade is always presented between adjacent ends of in-

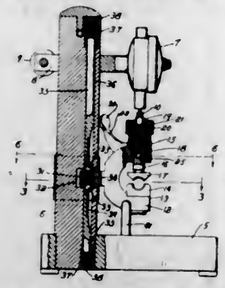
let and exhaust ports, and a cam member defining the rotor chamber and including an opposed pair of substantially circular arcs of substantially the diameter of the rotor and an opposed intermediate pair of substantially circular arcs of greater diametral spacing than the diameter of the rotor, the said arcs being joined tangentially by cam surfaces shaped to impart substantially uniform acceleration and deceleration to the rotor blades upon rotation of the rotor at constant speed and presenting with said arcs a continuous unbroken inner surface for engagement with the rotor blades.

2,588,431

SCREW THREAD COMPARATOR

Bror W. Swanson, Elmwood, Conn., assignor, by mesne assignments, to Anthony F. Kasprow, Felix A. Kasprow, Joseph W. Kasprow, Stephen G. Kasprow, all of New Britain, and Meyer E. Bailey, New Haven, Conn.

Application April 28, 1948, Serial No. 23,732
4 Claims. (Cl. 33—199)



1. In a comparator for testing the condition of threads on articles, a base, a post carried by said base, there being a transverse notch extending inwardly of said post intermediate the ends of the latter, said post being provided with a first longitudinal bore extending inwardly of the lower end thereof and terminating in said notch and a second longitudinal bore in alignment with said first bore and extending inwardly of the upper end of said post and terminating in said notch, a first rod slidably supported within said first bore, a second rod slidably supported within said second bore, each of said first and second named rods being slit adjacent the end contiguous to said notch, a ball positioned adjacent to and supported in the end of each of said rods contiguous to said notch, a support carrying coacting dies spaced vertically from each other positioned transversely of said post and having one end extending into said notch and engageable on its opposite faces thereof with said balls, and thrust means engageable with each of the other ends of said rods for positioning said rods to retain said balls in engagement with said one end of said support and said rods against lateral movement in said bores to thereby permit swinging movement of said one end support about said balls as a vertical pivot in said notch.

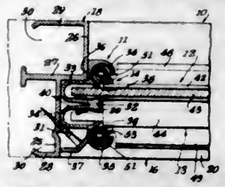
2,588,432

WINDOW CONSTRUCTION

Carl L. Tomsche, Burbank, Calif.

Application December 6, 1947, Serial No. 790,107
In Canada April 1, 1947
3 Claims. (Cl. 20—52)

1. A window structure comprising a frame having a sill, top rail, and side stiles, the stiles having inwardly and outwardly disposed walls, the latter being offset relative to the former to define a narrower transverse space between the outwardly disposed walls than between the inwardly disposed walls, there being a transverse wall connecting the offset walls of the respective frame stiles, an auxiliary stile longitudinally coextensive with and positioned against the inwardly disposed wall, the transverse wall and the adjacent portion of the outwardly disposed wall of



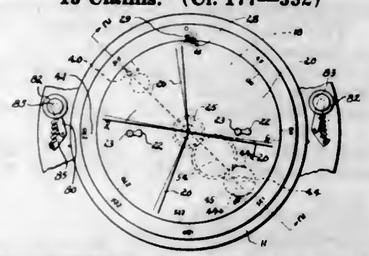
each frame stile, each auxiliary stile comprising an integral longitudinal member having a pair of side-by-side channels, a pair of sashes mounted in the frame and guided laterally in the channels of the auxiliary stiles, each auxiliary stile having a pair of longitudinal housings flanking the pair of channels, and a sash-counter-balancing expansion spring in each of said housings, each of said springs being connected to the top of the frame and directly to each respective sash.

2,588,433

AIRCRAFT ORIENTATION DEVICE

Walter John Twamley, Vancouver, British Columbia, Canada

Application April 12, 1949, Serial No. 86,975
13 Claims. (Cl. 177—352)



1. An orientation device for aircraft and the like comprising a chart disc rotatably mounted at its centre which represents the position of a radio station, said chart disc being adapted to indicate the heading of the aircraft, a direction disc rotatably mounted at its centre beneath the chart disc the centres of both of said discs coinciding, said direction disc being adapted to indicate the relative bearing between the aircraft and the station, a line of position on the direction disc extending through its centre, an aircraft direction indicator rotatably mounted on the direction disc with its rotational axis on the line of position and spaced from the disc centre, and means for keeping the direction indicator pointed in the direction of the aircraft longitudinal axis regardless of the setting of the direction disc.

2,588,434

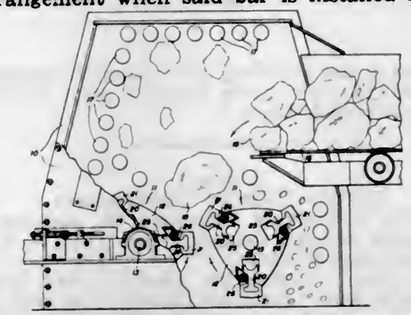
IMPACT BAR ASSEMBLY FOR IMPELLER BREAKERS

Frank P. Unti, Anaconda, Mont., and John T. Potts and Angus C. Ensign, Salt Lake City, Utah

Application June 16, 1949, Serial No. 99,374
6 Claims. (Cl. 241—197)

1. A composite impact bar assembly for impeller breakers having a center-body provided

with at least one re-entrant and longitudinally extending locking groove, and wedge-receiving recesses at opposite ends of said groove, said assembly comprising an elongate core bar having longitudinally-extending foot, cap-attachment portion, and intermediate web, said foot being shouldered longitudinally with respect to the web for securement within said re-entrant locking groove of said impeller center-body, and said cap-attachment portion being formed as a cross flange arranged to project outwardly from said locking groove as an attachment tongue for a cap arrangement when said bar is installed in the



center-body; a wear and impact cap arrangement comprising a plurality of individual cap sections adapted to fit together in end-to-end longitudinal alignment, the several cap sections having their undersurfaces correspondingly re-entrantly grooved for snug mating with the attachment tongue of the core bar; and fastening means for securing the cap arrangement to the core bar, said means including a pair of wedges for insertion in respective ones of said wedge-receiving recesses, said wedges being formed for reaction against said foot, the terminal sections of said cap arrangement, and the center-body and means for forcing said wedges inwardly of said recesses.

2,588,435

PROCESS OF TREATING FATTY MATERIAL

Christiaan van Loon, Dubbeldam, Eltje Smit, Dordrecht, Netherlands, and Willem van Rijn van Alkemade, Richmond, England, assignors to Lever Brothers Company, Cambridge, Mass., a corporation of Maine

No Drawing. Application August 7, 1947, Serial No. 767,330. In the Netherlands June 19, 1942
10 Claims. (Cl. 260—410.9)

1. The method which comprises reacting fatty glyceride stocks containing free fatty acids with a high boiling alcohol in the presence of an esterification catalyst and at a temperature above the boiling point of water at the reaction pressure, and said alcohol having a boiling point above said reaction temperature whereby water is removed during the reaction without too great a part of the high boiling alcohol evaporating and said free fatty acids in the stock are substantially completely esterified, and thereafter subjecting the reaction mixture to alcoholysis by reacting with a low molecular weight monohydric alcohol to form low molecular weight monohydric alcohol esters of fatty acids.

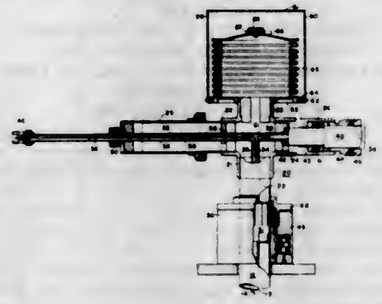
2,588,436

LIQUID COAXIAL LINE AND ROTARY JOINT

Richard J. Violette, Washington, D. C.

Application October 25, 1945, Serial No. 624,617
4 Claims. (Cl. 178—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination, a concentric transmission line comprising outer, intermediate and central metallic conductors, a rotary concentric joint located intermediate the ends of said line, said joint including outer, intermediate, and central concentric fingered sleeve members respectively interconnecting the outer, intermediate, and central conductor of each end of said line and adapted to permit relative rotation of the corresponding line conductors at either side of said joint while maintaining the electrical continuity of said outer, intermediate and central conductors throughout the length of said line, the rotary joint and associated concentric lines being



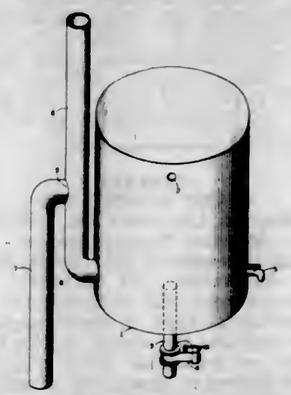
filled with a liquid polymerized silicone to provide a lubricant for the joint and a dielectric for the line, the fingered portions of said sleeves being of silver and having frictional engagement with hardened steel contact surfaces on said conductors, and means for compensating for expansion of said liquid when subjected to temperature ranges from −60° F. to +300° F., said compensating means comprising an adjustable bellows at one end of said line and responsive to the axial flow of the displaced liquid therein incurred by being subjected to such variable temperature conditions.

2,588,437

SEDIMENT TRAP

Frank W. Von Tungeln, United States Navy, Philadelphia, Pa.

Application December 9, 1946, Serial No. 715,123
2 Claims. (Cl. 210—51)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



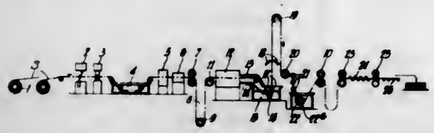
1. A sediment trap to collect rain water from roof spouts or other surface collecting means, said sediment trap consisting of a vertical pipe having an upper end and a lower end, said upper end constituting a rain water inlet for receiving water from said surface collecting means, a

vented tank provided with a side wall and bottom, said lower end of said pipe having an elbow in communication with an opening in the side wall of said tank near the bottom of said tank, a drain pipe in the bottom of said tank and provided with a dump valve, and a T-connection in said vertical pipe at a level above said elbow for delivering clean rain water to a storage means from said vertical pipe after the first run of water from the surface collecting means during a rain which has filled the tank to said level.

2,588,438
CEMENT PAINT COMPOSITION
Robert L. Waide, Houston, Tex.
No Drawing. Application June 20, 1949, Serial No. 100,300
2 Claims. (Cl. 106—95)

1. A high silica content paint composition comprising, substantially sixty percent white Portland cement containing approximately twenty-five percent silica, substantially twenty-two percent fibrous talc containing approximately sixty percent silica, substantially ten percent calcium carbonate having a particle size range of .5 to 10 microns, substantially seven percent sodium chloride and approximately one percent calcium stearate.

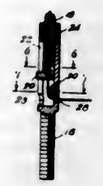
2,588,439
CONTINUOUSLY PROCESSING FERROUS STRIP OR SHEET MATERIAL
Alfred H. Ward, Pittsburgh, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application June 29, 1949, Serial No. 102,033
10 Claims. (Cl. 148—4)



1. A method of treating ferrous metal to substantially eliminate fluting thereof comprising bringing the metal to a temperature within the range of 350 to 500° F.; working the metal while in said range, said working being regulated to stress at least the outer fibers of the metal through the yield point thereof; and immediately quenching the worked metal to at least 150° F.

2,588,440
PIANO TUNING PIN
Henry E. Warren, Lancaster, Pa., and Richard G. Warren, Bangor, Maine
Application December 2, 1949, Serial No. 130,658
10 Claims. (Cl. 84—295)

1. A piano tuning pin comprising a body having a longitudinal bore, a shank portion having means for securing the shank within a pin block of a piano, an adjusting screw slidable in the bore, screw-threaded means for drawing the adjusting screw outwardly along the bore, means for preventing rotation of the screw in the bore, a passage through the screw axially thereof, a transverse passage in the pin body adjacent the base of the bore, and an abutment within the bore and adjacent the transverse passage, said abutment having a surface curving from the said passage through an arc of approximately ninety degrees to substantially the center line of the



passage in the adjusting screw, thereby smoothly to lead the piano string from its point of entry to the adjusting screw.

2,588,441
PREVENTION OF CORROSION
Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 27, 1949, Serial No. 90,040. In Canada December 23, 1948
2 Claims. (Cl. 106—14)

1. As a new composition of matter, water containing as a corrosion inhibitor from about 0.002 to about 0.4% by weight on an oil free basis of at least one substance selected from the group consisting of ammonium, morpholine and monocyclohexylamine mahogany sulfonate.

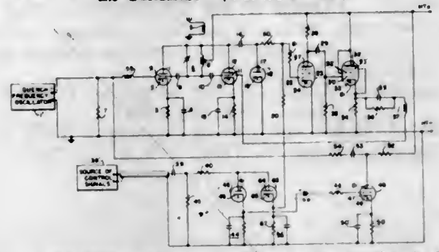
2,588,442
ORGANIC POLYSULFIDE TYPE ADHESIVE
Frederick J. Wehmer, Birmingham, and James M. McClellan, Jr., Detroit, Mich., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application July 26, 1947, Serial No. 764,020
5 Claims. (Cl. 260—3.3)

4. In the adhesive art a composition comprising intermixed quantities of (1) a polyalkylene polysulfide resin as the base of said composition, (2) chlorinated rubber, and (3) as a tackifier, a maleic anhydride-rosin addition product in an amount of at least about one part by weight to three parts of said polysulfide resin, said chlorinated rubber being present to an extent at least about as large as said tackifier.

2,588,443
FROTH FLOTATION CONCENTRATION OF SYLVITE FROM SYLVINITE ORES
Arthur J. Weinig, Golden, Colo., assignor to Potash Company of America, a corporation of Colorado
No Drawing. Application April 16, 1948, Serial No. 21,541
4 Claims. (Cl. 209—166)

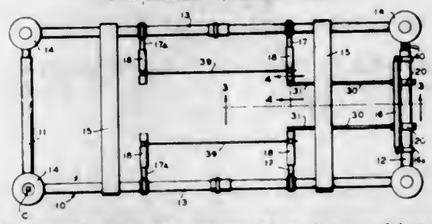
1. A process for treating potash ores which comprises the introduction of such an ore in finely divided condition into a brine saturated with respect to the soluble ore constituents to form a pulp, introducing into the pulp ions of a metal selected from a group consisting of lead and bismuth, subjecting such pulp to a froth flotation treatment in the presence of a chlorinated aminated hydrocarbon having a molecular weight when tested by the freezing point method of between 190 and 260 and collecting potash salts from the froth.

2,588,444
WAVE SIGNAL RESPONDER SYSTEM
James Rennie Whitehead, Millbank, London, and Hubert Wood, Hollinwood, Lancashire, England, assignors to Ferranti Limited, Hollinwood, Lancashire, England, a corporation of Great Britain
Application September 20, 1947, Serial No. 775,257
In Great Britain February 27, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires February 27, 1966
12 Claims. (Cl. 250—15)



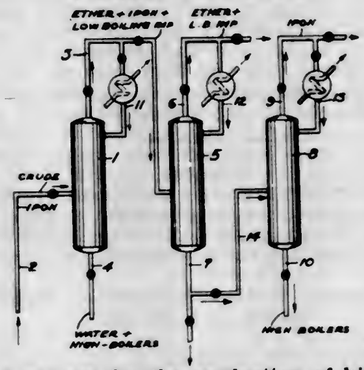
1. A wave-signal responder system, adapted for use in association with a nearby pulse-modulated radar equipment, comprising: receiver and transmitter means including a receiving valve for providing an amplified received signal and a detector device for detecting said amplified received signal; an input circuit adapted to receive from said radar equipment a potential change occurring in timed relationship to and just prior to the instant of commencement of each period of operation of said radar equipment; means for deriving from said potential change at least one control-voltage pulse having a wave form the duration of which embraces the operative period of said radar equipment; and means for applying control-voltage pulses derived by said last-mentioned means simultaneously to said receiving valve and to said detector device to suppress the operation of said receiver and transmitter means of said responder system during each period of operation of said radar equipment, thereby to prevent interference therewith resulting from operation of said responder system.

2,588,445
CASKET PLACER
Jim P. Wilkirson, Waco, Tex.
Application December 28, 1949, Serial No. 135,439
6 Claims. (Cl. 27—32)



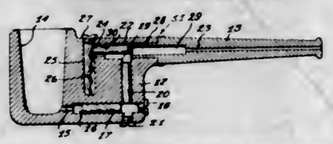
6. A casket placer comprising, in combination, a frame having two ends and two sides, a pair of casket-supporting straps wound upon the frame, and casket-guiding and supporting members each pivotally mounted at one end upon a frame end and extending longitudinally of the frame under one of the straps but extending from a level below the frame end where it is supported to a level as high as the top surface of said strap when said strap is substantially horizontal, each casket-guiding and supporting member being shaped so that at its highest point it lies adjacent the edge of the strap which is toward the aforesaid end of the frame and means supported on the frame to temporarily support the outer ends of the casket-guiding and supporting members.

2,588,446
PURIFICATION OF ISOPROPANOL
Samuel W. Wilson, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application June 9, 1949, Serial No. 97,962
6 Claims. (Cl. 202—57)



1. A process for the production of highly refined isopropanol of improved odor quality from crude aqueous isopropanol prepared by the sulfuric acid-catalyzed hydration of propylene and containing low-boiling and high-boiling impurities including malodorous bodies giving rise to "mercaptan" odor which comprises adjusting the pH of the crude alcohol to the basic side, distilling the basic crude alcohol in a first distillation zone to remove the low-boiling impurities and isopropanol overhead from the high-boiling impurities and water, conducting the distillate from the first distillation zone to a second distillation zone, removing low-boiling impurities including malodorous bodies giving rise to "mercaptan" odor overhead from the second distillation zone and recovering highly refined isopropanol free of malodorous bodies as bottoms from the second distillation zone.

2,588,447
MOISTURE-ABSORBING SMOKING PIPE
Andrew O. Winden, Madelia, Minn.
Application October 25, 1946, Serial No. 705,756
1 Claim. (Cl. 131—202)



A smoking pipe adapted for removing moisture and foreign particles from smoke passing therethrough comprising a bowl member having a tobacco-burning cavity therein, a first bore communicating with said cavity adjacent the bottom thereof and extending horizontally rearward therefrom, a second bore communicating with said first bore at a point remote from said cavity and extending perpendicularly upward therefrom, filtering means within said first and second bores for removing foreign particles out of smoke passing therethrough, a recess communicating with said second bore at a point remote from said first bore and extending in a parallel superimposed relation to the latter, there being a vertical bore

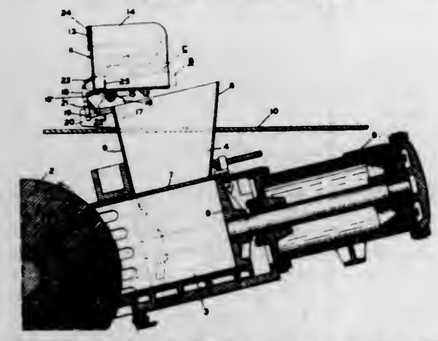
in said bowl member adjacent one end of said recess and in communication therewith, an absorbent wick in said vertical bore for removing the moisture from the smoke, an elongated stem member having an axial bore therethrough and adapted to be attached at one end to said bowl member so that said axial bore is in communication with the other end of the recess of said bowl member and co-extensive therewith, and means carried by said stem member and positioned in said recess for reversing the flow of smoke therethrough, whereby when said pipe is in use the smoke is drawn from said tobacco cavity through said first and second bores to the recess and is caused to flow through the latter to said vertical bore and then reversely through said means carried by said stem member and said axial bore consecutively for discharge.

2,588,448

FEEDING DEVICE FOR WOOD GRINDERS

Erwin A. Worm, Jr., and Arthur G. Raymond, Macon, Ga., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania

Application May 2, 1949, Serial No. 90,948
7 Claims. (Cl. 241—282)



1. In a wood grinder having a grinding wheel, a pocket for the reception of wood to be ground by the grinding wheel, and pressure means movable within said pocket for urging the wood to be ground into contact with the grinding wheel, the combination with said pocket of: a receptacle mounted above said pocket to receive bolts of wood disposed in a substantially horizontal plane, means for pivoting said receptacle for movement about a substantially horizontal axis to deliver said bolts of wood from said receptacle to said pocket on edge and in a substantially vertical plane with the axes of said bolts of wood disposed substantially at right angles to the axis of the grinding wheel, and means for holding said receptacle in wood-receiving position, said holding means being releasable to permit pivotal movement of said receptacle to wood-delivering position.

2,588,449

LEVULOSE DIHYDRATE

Frank E. Young, Berkeley, and Francis T. Jones, El Cerrito, Calif., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application March 3, 1950, Serial No. 147,574
17 Claims. (Cl. 127—30)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

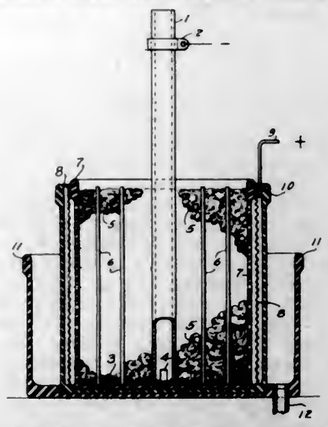
1. A process for isolating levulose from a solution thereof which comprises cooling the solution to a temperature not higher than about 20° C., seeding the solution with crystals of levulose dihydrate, allowing levulose dihydrate to crystallize out of solution and separating the crystalline levulose dihydrate from the mother liquor, the concentration of levulose in the solution seeded being sufficiently high to result in said crystallization.

2,588,450

PROCESS OF REGENERATING ACTIVATED CARBON LOADED WITH ADSORBED GOLD

John Benjamin Zadra, Reno, Nev., assignor to the United States of America as represented by the Secretary of the Interior

Application March 25, 1950, Serial No. 151,999
1 Claim. (Cl. 204—109)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a process for regenerating activated carbon loaded with adsorbed gold involving dissolving the gold content with caustic sodium sulfide, separating the regenerated active carbon, and electrolytically stripping the dissolved gold between an insoluble anode and a cathode, the improvement which comprises employing stainless steel wool as the cathode and recovering the gold therefrom, after deposition thereon, by dissolving said stainless steel wool in hot sulfuric acid and separating the solution from the precipitated gold.

2,588,451

TRANSFER NEEDLE FOR KNITTING MACHINES

Rudolph E. Zeruneith, Philadelphia, Pa.

Application August 30, 1949, Serial No. 113,096
8 Claims. (Cl. 66—95)



1. A stitch-transfer knitting-needle having a loop-spreading bridge projecting laterally therefrom along the front edge-zone of the needle, out of the plane of the portion of the needle-body adjacent to the bridge, said bridge having both ends thereof merging into and rigidly connected with the portion of the main body of the needle adjacent to and longitudinally coextensive with the bridge, and a loop-engaging shoulder on said bridge intermediate its ends, said shoulder being disposed generally transversely of the needle and extending generally in the direction of the front edge of the needle.

2,588,452

HYDROCARBON SYNTHESIS USING A SPENT AMMONIA SYNTHESIS CATALYST

Edwin T. Layng, New York, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey

No Drawing. Application May 10, 1946, Serial No. 668,764
4 Claims. (Cl. 260—449.6)

1. In the catalytic synthesis of liquid products of the class consisting of liquid hydrocarbons and liquid oxygenated hydrocarbons by the reduction of carbon monoxide with hydrogen, the improvement which comprises passing nitrogen and hydrogen in contact with particulate iron catalyst containing alkali in an amount of about 0.3% to about 5.0% by weight of said catalyst, said weight percentage being expressed as equivalent potassium oxide, effecting the synthesis of ammonia during the passage of said nitrogen and hydrogen in contact with said iron catalyst, discontinuing said synthesis of ammonia when said iron catalyst becomes substantially inactive for said synthesis of ammonia, and employing the resulting inactive iron catalyst, without intervening reducing treatment, in said catalytic synthesis of liquid products by passing carbon monoxide and hydrogen through a fluidized mass of said inactive iron catalyst at a temperature in the range of 425° to 700° F. and a superatmospheric pressure to effect said catalytic synthesis of liquid products.

2,588,453

ADJUSTABLE GARMENT

Jean W. Thielman, Pittsburgh, Pa.

Application April 25, 1951, Serial No. 222,812
2 Claims. (Cl. 2—75)



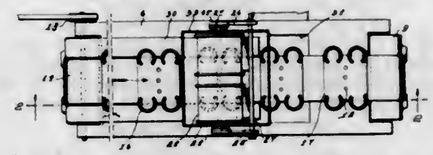
1. A dress having a portion folded backwardly and upwardly and thence downwardly, along horizontal lines, to form a tuck rearwardly of the exposed face of the dress, the last-named fold being stitched to the body of the dress, to retain the tuck in place, whereby the lower edge of the dress can be lowered simply through removal of this stitching, a flounce strip or the like attached at its upper edge to the exposed face of the dress along a horizontal line at the first-named fold line, and whereby scuffing is avoided at this line, the flounce strip and the tuck folds being of such relative vertical lengths that the flounce strip will conceal the tucked material from view when the said stitching is removed to release the tuck.

2,588,454

PIE MAKING MACHINE

James A. Abel and Paul W. Mercer, Chattanooga, Tenn., assignors of one-third to James A. Mercer, Chattanooga, Tenn.

Application November 26, 1945, Serial No. 630,853
10 Claims. (Cl. 107—1)



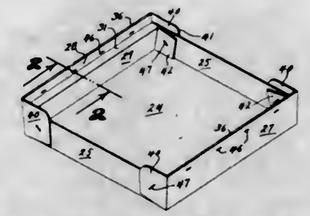
7. The combination with a pie making machine having a traveling belt, of a series of die members attached to said belt bordering its longitudinal edges, each die member comprising a base plate, an annular body extending upright from said base plate having a pie forming edge adapted to receive a folded sheet of dough with a filling material therebetween, said body being cut away at the side facing the center of said belt to provide an opening adapted to receive the fold of said sheet of dough.

2,588,455

FOLDING BOX

Wallace A. Adams, Petaluma, Calif.

Application June 28, 1948, Serial No. 35,644
16 Claims. (Cl. 229—34)



1. A folding box comprising an integral bottom, sides, ends and substantially horizontally disposed end ledges, the length of said box in the horizontal plane of said ledges being greater than the length of said bottom and the length of said bottom being greater than the distance between the inner edges of said ledges in said horizontal plane, said ends consisting of a plurality of layers of material and having folded end flaps, one of said flaps being folded inside said side, and another of said flaps being folded outside said side, one of the edges of said inside flap abutting the bottom of the box and determining the angularity of the layer with which said flap is associated with respect to said bottom.

2,588,456

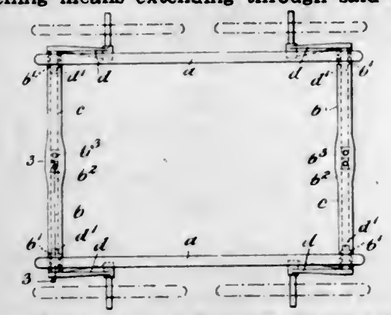
SPRING SUSPENSION OF PERAMBULATORS AND THE LIKE

John Griffin Allen, Hagley, near Stourbridge, England

Application August 30, 1949, Serial No. 113,139
In Great Britain February 24, 1948
2 Claims. (Cl. 267—5)

1. In a spring suspension system for a perambulator or the like, the combination comprising, a frame for said perambulator provided with a transversely disposed tubular casing, said tubular casing formed with a flattened portion position intermediate its ends and centrally of the casing, a radius arm rotatively mounted at an

end of said tubular casing, a torsional member disposed within said tubular casing and secured to said casing within said flattened portion by fastening means extending through said casing



and said member, and connecting means for rigidly securing an end of said torsional member to said radius arm whereby rotative movement of said radius arm is opposed by the torsional stress of said member.

2,588,457

PRODUCTION OF CELLULOSE ESTERS

James Joseph Allen and John Arthur Hawkes, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application October 14, 1947, Serial No. 779,838. In Great Britain November 16, 1946

4 Claims. (Cl. 260—225)

4. In the manufacture of cellulose acetate stearate by the action of stearic anhydride on an acetone-soluble cellulose acetate in the presence of zinc chloride and hydrogen chloride as catalyst and of a solvent for the cellulose acetate stearate in amount sufficient to dissolve it, the step of adding to the esterification solution, as the operation next before precipitating the cellulose acetate stearate, zinc acetate in amount at least equivalent to the hydrogen chloride in the solution.

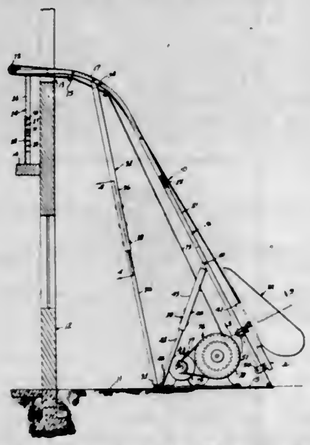
2,588,458

PORTABLE CONSTRUCTION HOIST

Alvie D. Allphin and Kay A. Allphin, Cody, Wyo.

Application October 6, 1950, Serial No. 188,807

2 Claims. (Cl. 214—100)



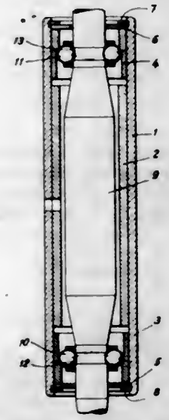
1. A portable construction hoist for a building including a window opening spaced above a ground surface and a floor surface within said building and adjacent said window opening, said hoist comprising a base adapted to rest on said ground surface at a point spaced from said building, an upwardly extending track arranged at an angle with respect to said base and having its lower end hingedly connected contiguous to one end of said base, the portion of the track adjacent the upper end thereof being bent arcuately to thereby dispose the upper end at an angle with respect to the track for extension of said other end through said window opening, a first adjustable brace means dependingly carried by said track contiguous to said upper end and adapted to engage said floor surface for supporting said upper end of said track when extended through said window opening, a second brace means having one end hingedly connected to said base contiguous to the other end thereof and having its other end hingedly connected to said track adjacent to and spaced from the lower end thereof, a third brace means having one end hingedly connected to said base adjacent said other end thereof and having its other end hingedly connected to the arcuate portion of said track, a bucket mounted on said track for reciprocatory movement, and hoist means operatively connected to said bucket for effecting the movement of said bucket along said track.

2,588,459

HIGH-SPEED SPINDLE

Robert Annen, Bienne, Switzerland, assignor to Roulements á Billes Miniatures S. A., Bienne, Switzerland

Application March 20, 1948, Serial No. 16,069
In Switzerland March 26, 1947
5 Claims. (Cl. 308—189)



1. A high speed spindle assembly comprising, in combination, an outer elongated tubular casing; an elongated shaft of a substantially smaller transverse cross-sectional area than the inner transverse cross-sectional area of said casing and mounted within said casing with its longitudinal axis substantially parallel to the longitudinal axis of said casing; a pair of inner ball bearing raceway portions located on said shaft, said inner raceway portions being spaced from each other; a pair of outer oppositely directed, angular ball bearing raceway portions connected to the inner surface of said casing and located respectively opposite to said inner raceway portions; and a plurality of ball members each having a radius of curvature which is smaller than the radius of curvature of each of said raceway portions and being mounted with clearance between said inner and outer raceway portions, whereby said shaft, when at rest, has play in said casing both in axial and radial directions so that when said shaft is rotated said ball members move along said raceway portions into a position in contact with said inner and outer raceway portions so as to take up said clearance, thereby automatically bearing against said inner and outer raceway portions to maintain the longitudinal axis of said shaft coincident with the longitudinal axis of said casing.

2,588,460

METHOD OF PRODUCING LACTIC ACID

Robert S. Aries, New York, N. Y., and Haskell C. Needle, Chicago, Ill.

No Drawing. Application April 22, 1950, Serial No. 157,628

7 Claims. (Cl. 195—48)

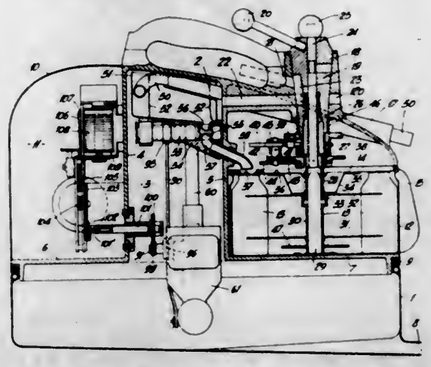
1. The method of rapidly producing concentrated highly purified lactic acid comprising treating starch with a crude liquefying enzyme produced by bacteria and molds associated with its growth substrate to effect a liquefaction of the starch, and thereafter treating the liquefied product simultaneously with crude saccharifying enzymes produced by bacteria and molds associated with its growth substrate along with a culture of *Lactobacillus delbrucki* to effect a simultaneous saccharification action and fermentation action whereby the saccharification and fermentation is substantially completed within about 48 hours.

2,588,461

TEST MILKING APPARATUS

John William Lennart Atterling and Eric Redin, Norrkoping, and Helge Ryde, Bromma, Sweden, assignors to Aktiebolaget Manus, Norrkoping, Sweden

Application December 15, 1950, Serial No. 201,026
In Sweden October 29, 1949
16 Claims. (Cl. 73—421)



1. In an apparatus for performing test milking of stocks of animals, an airtightly closeable receptacle, a conduit for connecting the interior of said receptacle to the vacuum of a milking machine and supplying milk thereto from said machine, means in said receptacle for measuring off portions of the milk supplied through said conduit which bear a predetermined relation to the total quantity of milk supplied, a volume meter for measuring the remainder of the quantity of milk supplied and delivering it to the receptacle, means under the control of said volume meter for operating the said measuring off device in order to secure the relationship between the portions measured off and the total quantity of milk supplied, and a discharge conduit leading from said measuring off means to a delivery point outside the receptacle for passing the portions measured off to test tubes positioned outside the receptacle.

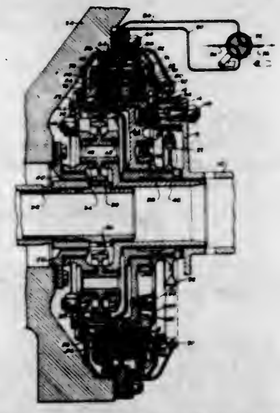
2,588,462

MULTISPEED TRANSMISSION

Stanley W. Baker, Hackensack, and John E. Rice, Pompton Plains, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware

Application June 30, 1949, Serial No. 102,192

2 Claims. (Cl. 74—764)



1. A multi-speed transmission comprising a first planetary gear train including an internal gear, a sun gear, a pinion carrier member, and a plurality of pinions on said carrier member and disposed in meshing engagement with said gears; a first brake means engageable to prevent rotation of said carrier member to provide a high speed ratio between said gears, said carrier member being arranged to rotate in the direction of the torque acting thereon by said gear train upon release of said brake means during transmission of torque by said gear train; a second planetary gear train including a pinion carrier member connected to said first-mentioned carrier member, a sun gear connected to said internal gear, an internal gear, and a plurality of pinions on said second-mentioned carrier member and disposed in meshing engagement with the sun and internal gears of said second gear train; and a second brake means engageable upon release of said first brake means to prevent rotation of the internal gear of said second gear train whereupon said second gear train is effective to limit the speed of rotation of the carrier member of said first gear train in the direction of said reaction torque thereby providing a low-speed ratio between the internal and sun gears of said first gear train.

2,588,463

PROCESS FOR PREPARATION OF STARCH ETHERS

Ladislaus Balassa, West Barrington, R. I.

No Drawing. Application June 14, 1950, Serial No. 168,166

7 Claims. (Cl. 260—233.3)

1. The process of preparing starch-ether compounds comprising reacting a solution of alkali metal starch with an etherifying substance adapted to form a reaction product comprising an alkali metal substance and the corresponding starch-ether, treating said reaction product with

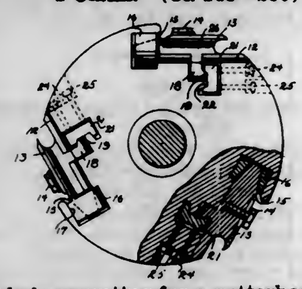
an acidic substance to neutralize any excess alkali present and to effect a pH of from about 7 to about 9 while maintaining a temperature during neutralization of from about room temperature to about 50° C., flocculating the said starch-ether at an elevated temperature of about 60° C. to about 90° C., by adding a substantially saturated solution of an inorganic salt at substantially its boiling point, separating the flocculated starch-ether from the hot mother liquor by conventional means, air-drying the separated flocculent material to a moisture content of from about 5% to about 15% moisture, disintegrating said air-dried flocculent material into a pulverized salt fraction and a granular starch-ether fraction and separating said pulverized salt fraction from said granular starch-ether fraction.

2,588,464
SINK CONSTRUCTION
Theodore Bargman, Royal Oak, Mich.
Application September 1, 1948, Serial No. 47,301
3 Claims. (Cl. 4—187)



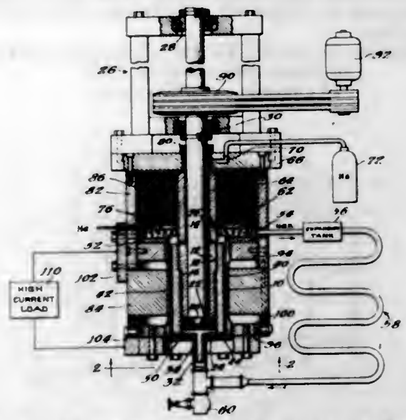
1. In an integrated plumbing unit, a molding for lining the aperture of a drain-board, a vertical face portion on said molding having a longitudinal groove therein adapted to hold a sealing material for sealing said face of said molding against the internal peripheral face of the drainboard, a lip on said molding for overlying the drainboard, sinks underlying the aperture in the drainboard, flanges on said sinks underlying the drain-board, means joining said molding to said flanges gripping the drain-board between the lip on said molding and the said flanges, a horizontal face on said molding having a longitudinal groove therein adapted to hold a sealing material for sealing said face of said molding against said flanges, a rib overlying the adjacent flanges of said sinks having longitudinal grooves in the face thereof contacting said flanges adapted to hold a sealing material for sealing the contacting face of said rib with respect to said adjacent flanges, and means clamping said rib to said adjacent flanges.

2,588,465
CUTTERHEAD FOR WOOD-TURNING LATHES
James Barksdale, Blytheville, Ark.
Application May 19, 1947, Serial No. 748,958
1 Claim. (Cl. 144—230)



In a blade mounting for a cutterhead, the combination which comprises a cylindrical body having tangentially disposed blade seats with inwardly extended recesses therein providing a cutter head, said inwardly extended recesses having hook like projections in offset sections thereof, a blade holder H-shaped in cross section positioned in each of said recesses, said blade holder having a positioning shank on the inner end extended into a socket in said body and having an arcuate under surface, said blade holder having a hook like projection extended from said arcuate surface and positioned in the offset section of the recess with the end thereof in abutting relation with said hook like projection of the body, said hook like projection of the blade holder being in alignment with the hook like projection of the body and both of said projections having bevelled surfaces on the sides thereof opposite to the sides in abutting relation, said hook like projection of the blade holder having an arcuate end surface, a channel shaped clamp having a back with flanges on the edges and the inner surfaces of said flanges being beveled providing complementary beveled surfaces to the beveled surfaces of the projections whereby pressure against the back of the channel shaped clamp wedges the hook like projections against each other, clamping screws threaded in the body and positioned to engage the back of said channel shaped clamp for forcing the clamp toward the hook like projections, and a cutter blade with a slot therein secured to the outer surface of said blade holder.

2,588,466
ELECTRICAL GENERATOR
Arthur H. Barnes, Downers Grove, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application October 24, 1950, Serial No. 191,846
6 Claims. (Cl. 171—212)



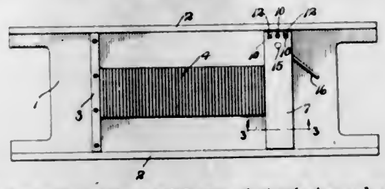
1. A high-current generator comprising, in combination, a conducting cylinder, a sleeve coaxially surrounding the cylinder and of an inner diameter slightly greater than the outer diameter of the cylinder, whereby there is formed an annular gap between said cylinder and said sleeve, means for maintaining a radial magnetic field across the annular gap, a sodium-potassium alloy containing from 5% to 55% sodium and from 45% to 95% potassium filling at least two longitudinally spaced portions of the annular gap, means for rotating only one of said coaxial elements around the common axis, and bus bars in low resistance connection with the conducting liquid at the longitudinal positions corresponding to said longitudinally spaced portions of the annular space.

2,588,467
GUN CARRIER
Ernest L. Barney, Lincoln, Nebr.
Application April 12, 1949, Serial No. 86,927
1 Claim. (Cl. 224—3)



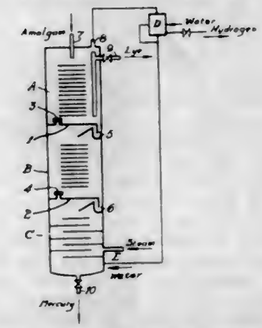
A gun carrier adapted for carrying a gun with its barrel extending upwardly at a high angle and away from the operator when the butt is resting in the carrier, comprising a sling composed of a piece of flexible material flexed to form vertical side walls and a bottom of approximately the width of the butt, and a back panel secured to the sling, the upper portion of the carrier having means for attachment to a belt extending approximately about the midsection of the operator, and the length of the sling being so short that, during walking of the operator, the butt of a gun supported therein will not be subjected to swinging motion to a sufficient extent as to be objectionable.

2,588,468
MOVABLE FORM LOCK
Freeman Barney, Spring Lake, Mich., assignor to The Challenge Machinery Company, Grand Haven, Mich., a corporation of Michigan
Application July 26, 1948, Serial No. 40,652
1 Claim. (Cl. 276—43)



The combination with a printer's type bed having a base and spaced perpendicular sides of a form lock located on said base between said sides, comprising, upper and lower spaced flat plates, one of said plates at one end having a slot extending longitudinally of the plate and an opening within the confines of the plate, channel bars located between the plates at opposite longitudinal edges thereof, and permanently secured to the plates, said channel bars having their open edges presented outwardly, a pressure bar slidably mounted between the plates adjacent said end of the plate having the slot and recess, pins in said pressure bar extending respectively into said slot and recess, the pin in the slot having a diameter equal to the width of the slot and the pin in the recess having a diameter less than that of the recess, a cam pivotally mounted between the plates and engageable with said pressure bar and means for rotating said cam, said form lock at one end engaging one of said sides of the bed and said pressure bar engaging the other of said sides.

2,588,469
PROCESS FOR THE PRODUCTION OF HIGH CONCENTRATION ALKALINE LYES
Alexis Basilewsky, Watermael-Brussels, Belgium, assignor to Solvay & Cie, Brussels, Belgium, a Belgian company
Application July 17, 1947, Serial No. 761,702
In Belgium February 18, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 18, 1964
6 Claims. (Cl. 23—184)

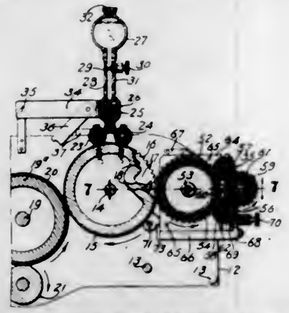


1. A process of producing alkali metal hydroxide solutions of high concentration by decomposing the corresponding amalgams which comprises establishing a plurality of vertically superimposed confined reaction zones containing alkali metal hydroxide solution, the solution in each of said zones increasing in alkali metal concentration from a lowermost zone of least concentration to an uppermost zone of highest concentration, causing the amalgam to flow unidirectionally in the direction of the zone of least alkali metal hydroxide concentration, thereby becoming gradually exhausted of alkali metal, introducing water into the zone of least alkali metal hydroxide concentration, withdrawing the exhausted amalgam in contact with said water to effect vaporization of at least some of said water by the sensible heat in said exhausted amalgam, introducing the water vapor thus produced and the alkali metal solution of least concentration into an alkali metal hydroxide solution of higher concentration to condense said vapor, thereby raising the temperature of said alkali metal hydroxide solution, introducing the vapors and liquid contained in each of said zones of alkali metal hydroxide solution into the body of the solution of next higher alkali metal hydroxide concentration, and withdrawing solution from the zone of highest alkali metal hydroxide concentration.

2,588,470
INKING MECHANISM FOR ROTARY LITHOGRAPHIC PRESSES
Ellis Bassist, Brookline, Mass., assignor, by mesne assignments, to A. B. Dick Company, Niles, Ill., a corporation of Illinois
Application February 15, 1947, Serial No. 728,863
9 Claims. (Cl. 101—141)

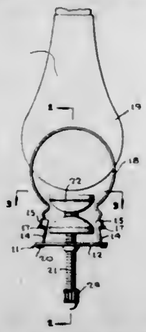
1. In a lithographic printing machine having a rotating cylinder for mounting a lithographic printing plate on the peripheral surface thereof, an inking roller mounted for rotational movement in surface contact with the cylinder for mounting the printing plate for applying ink thereonto, a first ink reservoir roller mounted for rotational movement in surface contact with the ink applying roller but out of contact with the cylinder for mounting the printing plate, a second ink reser-

voir roller mounted for rotational movement in surface contact with said first ink reservoir roller but out of contact with said ink applying roller and for reciprocation axially relative thereto during rotational movement, said ink reservoir rollers being formed of porous material having



a permeability to water greater than that to ink for removing excess water from the ink applying roller and absorbing same into the interior thereof while ink for transferring to the ink applying roller locates in the outer portions thereof.

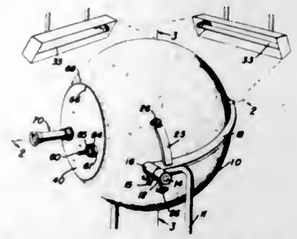
2,588,471
LAMP VAPORIZER
George C. Bauer, Bayville, N. Y.
Application February 20, 1951, Serial No. 211,872
2 Claims. (Cl. 21—120)



1. A lamp vaporizer comprising a pair of cup members coaxially secured in back-to-back relationship, a plate member, a rod element adjustably secured in said plate member and connected axially at its end to said cup member, and a pair of opposed resilient spring clips secured to said plate member on opposite sides of the common axis of said cup members and arranged to clampingly engage an electric lamp bulb, whereby the cup members will be supported adjacent the bulb with one cup member facing toward the bulb and the other cup member facing away from the bulb, and whereby the distance between the bulb and the cup members may be regulated by adjusting the position of said rod element relative to the plate member.

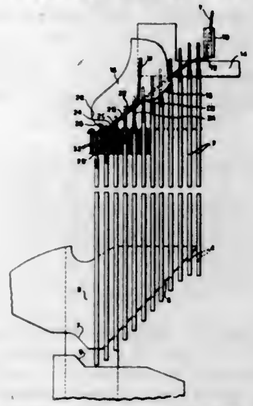
2,588,472
ASTRONOMICAL TEACHING AND TRAINING APPARATUS
Frank R. Beeson, Eugene, Oreg.
Application March 7, 1951, Serial No. 214,341
11 Claims. (Cl. 35—47)

3. An astronomical appliance comprising an opaque hollow sphere, the interior surface of which is covered by a celestial chart, formed by providing holes in the sphere piercing the same and located at the places at which the celestial bodies are placed on the chart, said sphere being provided with an opening, a closing spherical segment covering said opening and mounted for rotation therein, an optical instrument mounted radially on said segment and piercing the segment, with its optical axis directed towards the



center of the sphere, a mirror with a reflecting surface arranged in the center of the sphere, supporting means for said mirror mounted on the segment, means for adjusting the position of said mirror within the sphere, including a manual adjusting element piercing the segment in a light tight manner, and operable from the outside, and means for illuminating the outside of the sphere.

2,588,473
KNITTING MACHINE
Alexander Belford, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application November 16, 1949, Serial No. 127,689
5 Claims. (Cl. 66—135)



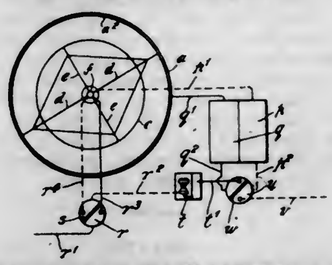
1. In a circular knitting machine, independent needles and sinkers, means for feeding a main yarn to the needles, means for feeding a wrap yarn to a group of needles in a single course, cam means for moving needles in a predetermined path for the seizure of the main yarn, and a plating cam located inside the needle circle and engageable with the wrap yarn at a part thereof between the last needle of a group to be wrapped and the wrap yarn supply, said sinkers having ledges over which stitches are drawn and provided with clearances inwardly of the ledges and adjacent to the plating cam when positioned at the circumferential position of closest approach of the plating cam to the sinkers, so that the wrap yarn may be located by the plating cam to extend therefrom towards a needle approximately parallel to the plane of the sinker ledges.

2,588,474
FILTER FOR INTERNAL-COMBUSTION ENGINES
Constantinos Bellios, Brooklyn, N. Y.
Application October 19, 1948, Serial No. 55,255
4 Claims. (Cl. 48—180)



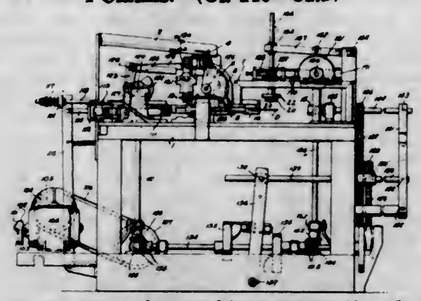
1. In a device of the class described having an elongated tubular casing with one end closed and the other end open and provided adjacent its closed end with an entrance port for connection to an engine carburetor and diametrically opposite the entrance port with an exit port for connection to the intake manifold of an engine, a longitudinal partition positioned axially within the casing with its width extended at right angles to the axis of the ports and with one end engaged against the closed end of the casing and with its other end spaced inward of the open end of the casing, a filter fitted into the open end of the casing with its inner face abutted against the adjacent end of said partition and its outer face flush with the open end of the casing, a cap screw threaded onto the open end of the casing, an inwardly directed flange within said cap and spaced from its end wall and engaging the outer face of said filter holding it in position and engaging the open end of the casing holding the end wall of the cap spaced from the outer face of said filter.

2,588,475
FILTER BED
James Frankland Bolton, Moss Ironworks, Heywood, England, assignor to Ames Crosta Mills & Company Limited, Heywood, England, a British company
Application September 4, 1946, Serial No. 694,786
In Great Britain September 10, 1945
2 Claims. (Cl. 210—7)



1. Filtering means for fluid sewage, comprising an annular filter structure, a bed of filtering material therein, a column disposed centrally of said structure, pairs of long and short arms rotatably mounted on said column for distributing fluid separately on to inner and outer concentric areas of the filter bed, a shallow annular raised rib on the floor of the structure dividing said floor into concentric areas complementary to the said concentric distributing areas of the bed, an outer collecting channel encircling the structure and communicating with the outer area of the said floor, an inner collecting channel communicating with the inner area of said floor, means for delivering a primary fluid to be filtered selectively to one of the pairs of distributing arms, means for collecting secondary fluid from below the area covered by such distributing arms, and means for delivering such secondary fluid to the other pair of distributing arms, in combination with a four-way distributing valve having two inlet and two outlet connections and an adjustable partition so disposed that each inlet may be connected to either outlet while the other inlet is connected to the other outlet, tubular means connecting the outlets respectively to the short and long distributing arms, a pair of settling tanks connected respectively to the inner and outer collecting channels, a four-way collecting valve having two inlet and two outlet connections and an adjustable partition so disposed that each inlet may be connected to either outlet while the other inlet is connected to the other outlet, outlet means for the settling tanks connected to the inlets of said collecting valve, a final discharge duct connected to one outlet of the collecting valve, a pump, means connecting the other outlet of the collecting valve to the inlet side of the pump, means connecting the delivery side of the pump to one inlet of the distributing valve, and means for supplying fluid to be filtered to the other inlet of the distributing valve.

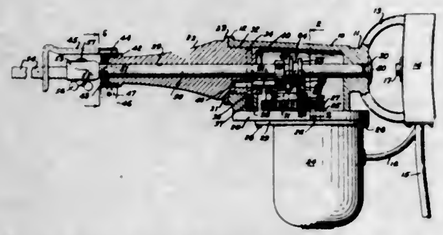
2,588,476
MACHINE FOR MAKING GARMENT HANGERS
J. Van Boyles, High Point, N. C.
Application December 30, 1947, Serial No. 794,625
4 Claims. (Cl. 140—81.5)



1. A machine for making conventional generally triangular garment hangers from straight wire blanks, comprising a fixed form depending from the fixed frame of the machine, said form comprising horizontally disposed base corners, an apex blade and an apex post positioned similarly to the angles of the hanger, a fixed horizontal support located midway between said base corners and horizontally spaced from said fixed form, means for feeding the wire blanks successively upon said support, twin horizontally reciprocatory levers for bending the wire blanks about said base corners and against said apex blade and said apex post to make a hanger located in a horizontal plane having wire end portions one of which is longer than the other, horizontally reciprocatory slides engaging the base bar of said hanger for completing the bending of the base angles of said hanger about said base corners of the fixed form, means for twisting said wire end portions together to make the hanger neck and a V-bend straddling said apex post and connecting said neck with the side bars of the hanger, and means comprising a hook forming head for bending the terminal portion of the longer of said wire end portions into a hook, said levers having their culcrums spaced horizontally from said base corners of the fixed form and upon retraction releasing the hanger from said fixed form for delivery by gravity, said hook forming head depending from the fixed frame of the ma-

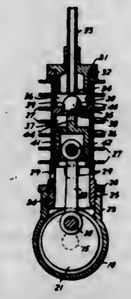
chine to enable the hook to fall in said gravity delivery, said slides operating to push the base bar of the hanger over and beyond said support to free it therefrom and enable said base bar to fall in said gravity delivery.

2,588,477
POWER TOOL
Martin L. Briggs, Oakland, Calif.
Application November 13, 1947, Serial No. 785,687
5 Claims. (Cl. 143—68)



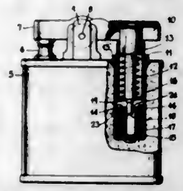
5. A power tool adapted to drive a reciprocating tool in any desired rotational position with respect to its own frame and thereby making it unnecessary to turn the frame when making an angular cut, including in combination a hollow frame having a cylindrical socket opening through its front wall; a barrel with its rear end engaged in said socket for free rotation therein but against rotational displacement therefrom, said barrel having a longitudinal bore therethrough, the rear end wall of said barrel having a pocket therein parallel to said bore; an overlength shaft slidably mounted in said bore of said barrel, the front end of said shaft having a tool-supporting chuck; an aligning pin connected to said shaft in said frame beyond the rear end of said barrel and positioned to engage slidably in said pocket so that a change in the rotational position of said barrel also changes the rotational position of said shaft and its said chuck with respect to said frame; and means for reciprocating said shaft in its said barrel in any rotational position thereof, said pin then reciprocating in said pocket.

2,588,478
ENGINE
William L. Brown, 3rd, and William L. Brown, 4th, Philadelphia, Pa.
Application November 27, 1946, Serial No. 712,524
4 Claims. (Cl. 121—124)



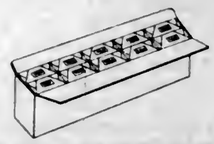
1. In an engine, a crank case having a crank rotatably mounted therein, a cylinder, a partition member in said cylinder separating the interior of said cylinder into a valve chamber and a working chamber, means for delivering pressure fluid to said valve chamber, said partition member being provided with an opening therethrough having a valve seat, a valve member for engagement with said seat, a piston connected to said crank and reciprocable with a fixed stroke in said working chamber, said cylinder having exhaust ports at one end thereof controlled by the movement of said piston, an abutment carried by said piston movable into and through said opening to engage said valve and move it from its seat to admit pressure fluid to said working chamber for actuating said piston, and means for adjusting the extent of opening of said valve member comprising an adjustable connection between said cylinder and said crank case.

2,588,479
LIGHTER LOCKING MECHANISM
Ray L. Burchett, East Orange, and Warren I. Nissen, Newark, N. J., assignors to Ronson Art Metal Works, Inc., Newark, N. J., a corporation of New Jersey
Application February 26, 1949, Serial No. 78,488
3 Claims. (Cl. 67—7.1)



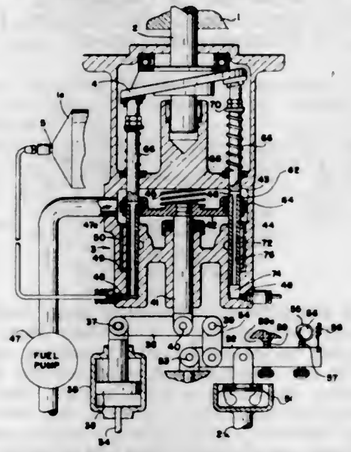
3. A cigar lighter of the class described having a fuel casing, a sparking wheel mounted thereon, a burner member adjacent said sparking wheel, a manually operable finger piece, carried on said casing and having a guide plunger, means for mounting said finger piece including said plunger to move between idle and active positions, mechanism interconnecting said finger piece with said sparking wheel to actuate the latter upon movement of said finger piece and plunger from idle toward active position, a stop member, and a locking member movable by gravity into a position clear of said plunger when said burner member is upwardly directed and being movable by gravity into the path of movement of said plunger and between said plunger and said stop member when said burner member is downwardly directed thereby to prevent movement of said finger piece toward active position.

2,588,480
PACKAGE PRINTING DEVICE
Alfred Burckhardt, Stamford, Conn., assignor to Pitney-Bowes, Inc., a corporation of Delaware
Application April 21, 1945, Serial No. 589,620
2 Claims. (Cl. 101—37)



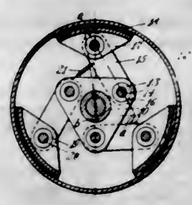
1. In a tax stamp imprinting machine for group printing on packages of cigarettes while contained within their packing cartons, the combination with a multiple die printing cylinder, of a carton supporting platform, a stationary support having one end of the platform pivotally mounted thereon the other end of the platform being free, an adjustable support on said stationary support engaged with the free end of the platform for effecting raising or lowering thereof relative to the printing cylinder to accommodate packages varying in height, a carton engaging roller supported by the platform at the free end thereof to be adjusted therewith, said roller being located beneath the point of printing of the printing cylinder and having the upper peripheral surface thereof extending slightly above the plane of the platform surface, means to convey cartons along the platform and over the roller, said roller providing a surface about which the carton may pivot while passing through a printing position between the printing cylinder and roller, whereby each package in the carton will be effectively supported by said roller during printing in all positions of adjustment of said platform.

2,588,481
FUEL INJECTOR PUMP MECHANISM
Milton E. Chandler, New Britain, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Original application July 22, 1942, Serial No. 451,874. Divided and this application December 13, 1944, Serial No. 568,017
19 Claims. (Cl. 103—41)



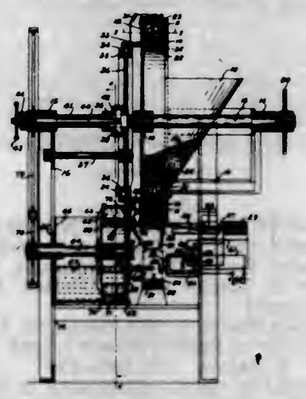
1. Fuel injector pump mechanism for a multiple cylinder internal combustion engine, comprising a chamber, means for supplying fuel to said chamber at a predetermined pressure, a plurality of pump cylinders, each said pump cylinder having one end opening into said chamber, a plurality of delivery conduits, each said conduit conducting fuel from the opposite end of one of said pump cylinders, check valve means in each said conduit for preventing the flow of fuel therethru until the pressure in its associated pump cylinder exceeds a predetermined value higher than the pressure in said chamber, a plunger reciprocable in each said pump cylinder and extending into said chamber, each said plunger having passage means extending therethru and connecting said chamber and said cylinder so that said cylinder may receive fuel from said chamber thru said passage means, said pump cylinders and plungers being arranged circumferentially of said chamber, a plate within said chamber supported on a shaft extending axially of said chamber, said plate being apertured for the passage of said plungers therethru and being effective to close said passage means at a predetermined point in the pumping stroke of said plungers, each said plunger being effective during the portion of said pumping stroke after said passage means is closed to produce a pressure in said cylinder sufficient to overcome said check valve means and force a supply of fuel therefrom, means for sequentially reciprocating said plungers, means for positioning said shaft to adjust the point in the pumping stroke of said plungers at which said passage means are closed by said plate and thereby to control the quantity of fuel delivered on each stroke of said plungers, and means for operating said shaft positioning means.

2,588,482
FRICTION CLUTCH, BRAKE, AND COUPLING
Charles Wallace Chapman, Burstow, Horley, England
Application June 4, 1946, Serial No. 674,310
In Great Britain March 15, 1946
12 Claims. (Cl. 192—105)



1. A friction coupling, comprising a drum and a boss within it independently rotatable about the same axis, arms resiliently pivoted to said boss around its centre, each arm lying on a non-radial line, a link resiliently pivoted to the end of each arm, a shoe resiliently pivoted to the end of each link and a balance weight for the shoe on each link, whereof the centre of gravity of each shoe, link and weight coincides approximately with the centre of the resilient pivot of the link, the said resilient pivots being constituted by rubber, secured in position so that in operation the resilient pivots are in shear.

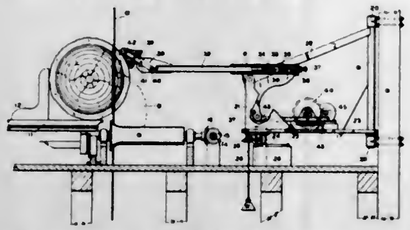
2,588,483
RECEPTACLE FILLER
Frank D. Chapman, Berlin, Wis.
Application November 18, 1946, Serial No. 710,547
18 Claims. (Cl. 226—99)



18. In a receptacle filler, an annular series of granular material measuring pockets revolvable about an axis, an annular series of discharge hoppers surrounding said pocket series and being revolvable about the same axis with each hopper

disposed in radial alinement with one of said pockets, an annular series of liquid material measuring pockets revolvable about a different axis adjacent to said hoppers, means for revolving said pockets and hoppers to cause one pocket of each pocket series to deliver its contents into the same hopper of said hopper series, means for effecting independent variation of the effective volumes of the pockets in each of said series, means for advancing receptacles in communication with the successive hoppers of said hopper series, and means operable by the advancing receptacles for controlling said delivery of materials from the pockets into the hoppers.

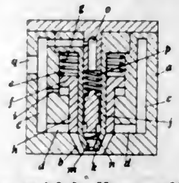
2,588,484
MECHANICAL OFF-BEARING MEANS
George W. Charters and Bernard H. Michels, Camas, Wash., assignors to Crown Zellerbach Corporation, San Francisco, Calif., a corporation of Nevada
Application July 5, 1950, Serial No. 172,132
3 Claims. (Cl. 143—157)



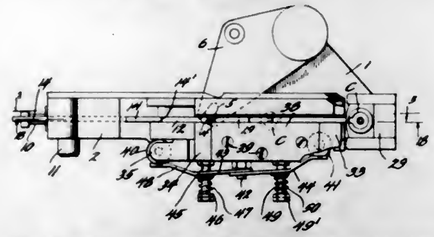
1. In a mechanical off-bearer assembly for facilitating the handling of a slab as it is being cut from a log, a frame located a spaced distance from the log and on the slab side of the log, said frame mounted for limited swing in a horizontal plane, an arm mounted on said frame and extending towards said log and slab from said frame, means for moving said arm up and down, a member rotatably mounted on the end of said arm and so positioned as to be contacted by and to bear against the slab when said arm is in starting position, said member rotated substantially in the direction of the log travel by contact with the slab, and slab-conveying means located below the slab and said member for receiving the slab when the severing of the slab from the log is completed, whereby said member when first contacted by the slab, by exerting an outer side thrust against the slab, will prevent the slab momentarily from tipping outwardly from the log, and whereby said member and said arm can be moved downwardly with the slab when the slab is severed from the log to facilitate the sliding of the slab into desired position on said slab-conveying means.

2,588,485
LIQUID FUEL BURNER NOZZLE
John Stanley Clarke, Blacko, near Nelson, and Leslie John Goddard, Bromborough, England, assignors to Joseph Lucas Limited, Birmingham, England
Application March 6, 1950, Serial No. 147,952
In Great Britain March 7, 1949
2 Claims. (Cl. 299—118)

1. A liquid fuel nozzle comprising in combination a hollow body provided with an inlet for liquid fuel under pressure, and with a main swirl-chamber through which liquid fuel can be discharged from said hollow body, a hollow cylindrical member immovably secured within said hollow body and terminating at one end in a subsidiary swirl-chamber provided with a discharge orifice, said hollow cylindrical member being in communication with said inlet, and said subsidiary swirl chamber being situated within said main swirl chamber, a movable control member surrounding said hollow cylindrical member and having one end arranged to control fuel flow from the interior of said hollow body to said main swirl chamber, and means for moving said control member in response to the pressure of the liquid fuel supplied to the said hollow body.



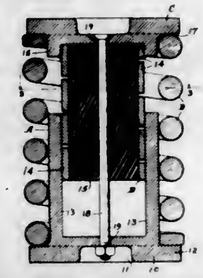
2,588,486
COMBINED TUCKER AND ORIENTING MECHANISM FOR SNAP FASTENER ATTACHING MACHINES
Rollin R. Clarke, West Cheshire, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application September 16, 1949, Serial No. 116,015
6 Claims. (Cl. 218—6)



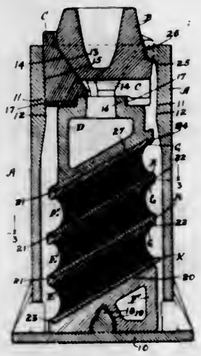
1. In a machine for attaching snap fasteners, which latter have embossing on their outer faces and notched under-surfaces in a certain definite relation to the embossing, a reciprocating tucker mechanism, including a tucker slide having a rear spring-pressed pivotal finger for overlying the snap fastener and a forward spring-pressed pivotal finger for also overlying the snap fastener, the rear finger adapted to advance each snap fastener for a part of its travel, and the forward finger adapted to advance the snap fastener to an attaching station of the machine; means for operating the tucker mechanism, frictional means for engaging the rim only of the snap fastener for causing the rotation of the snap fastener in its travel, and both of said fingers being adapted to snap into the said notched surface in said snap fastener when respectively in registry therewith, to thereby arrest the rotation of the snap fastener and hold it in its oriented position during the remainder of its travel to the attaching station.

2,588,487
SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application December 7, 1948, Serial No. 63,950
6 Claims. (Cl. 267—9)

1. In a friction shock absorber, the combination with a casing; of a friction unit slidingly telescoped within the casing for movement bodily lengthwise with respect to the casing, said unit including a rubber block and a coil spring surrounding said block; a follower to which said spring is locked against lateral displacement, said block and spring being under canting tension to force said spring into tight frictional engagement with the casing; and spring means surrounding said unit and casing and bearing at opposite ends on said unit and casing for yieldingly resisting lengthwise relative approach of said unit and casing and opposing relative lateral displacement of said follower and casing.

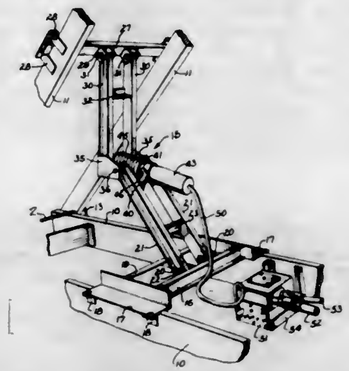


2,588,488
FRICTION SHOCK ABSORBER FOR RAILWAY DRAFT RIGGINGS
George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application April 11, 1950, Serial No. 155,275
2 Claims. (Cl. 213—34)



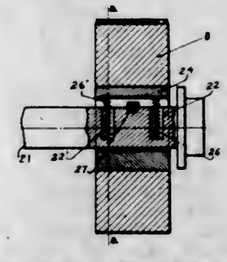
1. In a friction shock absorbing mechanism, the combination with a friction casing; of a friction clutch slidingly telescoped within the casing; a follower bearing on the inner end of said clutch; an abutment at the opposite end of said casing, said follower and abutment having their opposed faces inclined in the same direction transversely of the mechanism; yielding means opposing movement of the clutch inwardly of the casing, said yielding means comprising a plurality of rubber pads arranged in series lengthwise of the mechanism, and metal spacer plates embracing each pad at opposite sides, said pads and plates being inclined correspondingly to said faces of said follower and abutment, said pads and plates being interposed between said inclined faces of said follower and abutment; and interengaging stop means on adjacent of said plates for holding the same against relative movement in the direction of the inclination of said plates and pads.

2,588,489
TILTING APPARATUS
Richard F. Day, Chicago, Ill.
Application July 19, 1949, Serial No. 105,569
8 Claims. (Cl. 298—22)



4. Apparatus for tilting the dump body of a dump vehicle wherein the dump body is pivotally mounted on the chassis of the vehicle comprising, a pair of levers, a pivotal connection between an end of each lever for pivotally connecting together the levers so that they may be collapsed and angularly extended, pivotal connecting means at the other ends of each lever adapted to pivotally connect the levers to the dump body and vehicle chassis respectively, power means having two relatively movable parts interposed between the levers adjacent the pivotal connection therebetween for angularly extending and collapsing the levers, pivot means for pivotally mounting one of the movable parts of the power means on one of the levers adjacent the pivotal connection, and pivot means for pivotally mounting the other movable part of the power means on the other lever adjacent the pivotal connection, the angular relation between a line between the pivot means on the two levers and a line between one of the pivot means and the pivotal connection between the levers being substantially a right angle when the two levers are collapsed.

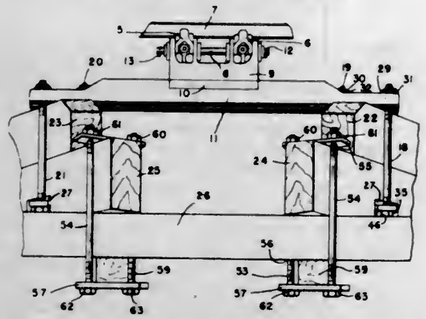
2,588,490
DRIVING MECHANISM FOR SOUND PICTURE SYSTEMS
André Victor Léon Clément Debrie, Paris, France
Application May 14, 1948, Serial No. 26,985
In France July 15, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires July 15, 1962
4 Claims. (Cl. 271—2.3)



4. A sound picture film driving mechanism comprising a driving sprocket, a drum around which the film passes and the axis of rotation of which is parallel to the axis of rotation of

said driving sprocket and a pressure roller located between said sprocket and said drum, a fixed shaft parallel to the axes of rotation of said driving sprocket and said drum having recesses rotatively supporting said pressure roller, a ring surrounding said fixed shaft and non-rotatively mounted with reference to said shaft, two springs mounted parallel to one another in said recesses in the direction of the length of said fixed shaft, said springs being interposed between said fixed shaft and said ring, a yielding stop forming a projection on the fixed shaft between said springs, and a cylindrical part rotatably mounted around said ring.

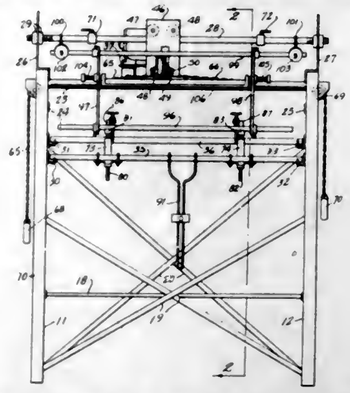
2,588,491
TRUCK CARRIER CLAMP
George Demos, Fort Wayne, Ind., assignor to Kenosha Auto Transport Corporation, Springfield, Ohio, a corporation of Ohio
Application February 2, 1951, Serial No. 209,141
5 Claims. (Cl. 280—33.05)



1. In a structure for supporting a carried motor vehicle upon the rear of a carrier motor truck having a horizontal stake bed with apertures therein the combination comprising, a horizontal support mounted on said bed and extending rearwardly thereof, clamping means having spaced vertically disposed rod members and spaced horizontally disposed plate members connecting said rod members together at opposing ends thereof, one said member passing through a said aperture and another said member passing outwardly of said bed, said clamping means enclosing said support at the forward end thereof in stress relation therewith.

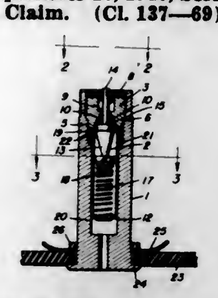
2,588,492
LAWN MOWER SHARPENING MACHINE
Fred E. Dennewitz, Forrest, Ill.
Application May 5, 1950, Serial No. 160,295
2 Claims. (Cl. 51—34)

1. A lawn mower sharpening machine comprising a rectangular frame having a top end, two rails extending across said frame in spaced apart and substantially parallel relationship to each other, one of said rails being disposed at the top end of said frame and connected at its ends thereto and the other of said rails being disposed above the top end of said frame, brackets secured to said frame at the upper end thereof and extending upwardly therefrom supporting said other rail, a first carriage mounted on said one rail for movement longitudinally thereof, a second carriage mounted on said other rail for movement longitudinally thereof, said second carriage having an opening therethrough, a pair of arms secured to said first carriage and projecting through the opening in said second carriage, means resiliently supporting said arms from said second carriage, a grinding wheel disposed between said arms and journaled thereon at the side of said second carriage remote from said first carriage, a motor



mounted on said first carriage, means drivingly connecting said motor to said grinding wheel, and a fixture adjustably mounted on said frame for supporting lawn mower blades in position to be ground by said grinding wheel.

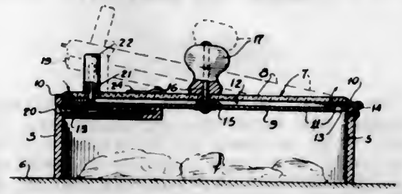
2,588,493
VALVE FOR STEMS OF PNEUMATIC TIRES
John De Stefano, Long Island City, N. Y.
Application September 16, 1947, Serial No. 774,401
1 Claim. (Cl. 137—69)



A tubular valve stem having an internally threaded outer end, a substantially tubular valve casing in said stem having an outer end head turned into the outer end of said stem, said head having an inwardly tapered valve seat therein forming an inlet port, a valve member in said casing having a reduced post extending through said seat, and spring means in said casing for seating said valve member against said seat, said valve member having a body clearing the inside of said casing for the passage of air past the same and tapering inwardly of said casing, and said post having a resilient gasket thereon tapered outwardly of said casing and backed by said body for fitting in said seat, said gasket clearing the inside of said casing to permit air to pass the same when said valve member is unseated.

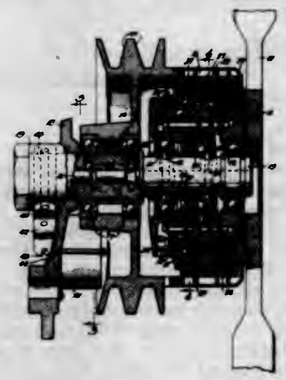
2,588,494
COOKING UTENSIL
Jack N. Deuel, Hawthorne, Calif.
Application April 23, 1949, Serial No. 89,179
1 Claim. (Cl. 126—275)

In a cover for a cooking utensil, a circular lower plate of substantially rigid sheet material, said plate having a peripheral portion to rest on the top of the side wall of a circular cooking utensil, said plate having a downwardly offset body portion extending to said peripheral portion and surrounded thereby, a flat circular asbestos plate having a peripheral portion resting flatwise upon and attached to said peripheral portion of said lower plate, spacing means located centrally of the cover between said two plates, a handle for said cover upstanding therefrom, a pin passing through said handle and spacing means keeping the latter in place to safeguard against breaking down of said asbestos plate, said handle being attached to the upper end portion of said pin



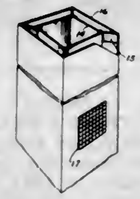
and being thus held in contact with the upper surface of the central part of said asbestos plate, means carried by the lower end portion of said pin in an underlying abutting relation to the lower face of said lower plate so that said spacing means is gripped between said two plates and said asbestos plate is gripped between said handle and spacing means, a hinge attaching said cover to a cooking utensil, said hinge comprising two pivoted together wings one of which abuts flatwise against and is secured to the lower face of the aforesaid peripheral portion of said rigid plate, the other wing of said hinge being fastened to said cooking utensil.

2,588,495
FAN DRIVE CLUTCH
Adiel Y. Dodge, Rockford, Ill.
Application January 25, 1950, Serial No. 140,500
10 Claims. (Cl. 192—12)



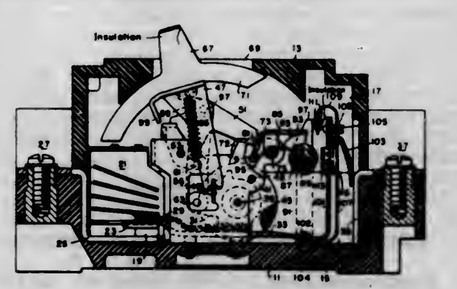
1. A fan drive clutch comprising a driving member, a driven member, a main friction clutch including frictionally engageable elements connected to said members respectively, a loading cam device to move the main clutch elements into engagement and including relatively rotatable cam parts, a second clutch to connect one of said cam parts to the driving member, means to control the second clutch, and one-way acting means to connect the driving and driven members to prevent relative rotation thereof in one direction.

2,588,496
CHIMNEY AND THE LIKE
Lewis L. Dollinger, Rochester, N. Y.
Application March 12, 1947, Serial No. 734,146
3 Claims. (Cl. 98—46)



1. A combined chimney and heat exchanger comprising elongated metal plates provided with integral continuous projecting flanges along their side edges, means sealing together the surfaces of the flanges of adjacent plates to define a smoke passage and with the flanges projecting outwardly therefrom, and a shell supported on the projecting flanges in spaced relation to said passage, to define heat flues adapted to communicate with rooms to be heated, said shell comprising sheet metal shaped to engage said flanges.

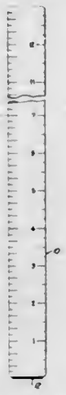
2,588,497
CIRCUIT BREAKER
Hiller D. Dorfman and William D. Patton, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 10, 1949, Serial No. 132,342
6 Claims. (Cl. 200—88)



2. A circuit breaker having relatively movable contact means and means releasable to effect opening of said contact means, a trip member having a latch element thereon normally restraining said releasable means and operable to effect release of said releasable means, a trip device for operating said trip member comprising a bimetal element supported at one end, adjusting means on the free end of said bimetal element, a resilient strip having one end supported adjacent the supported end of said bimetal element, a main portion of said resilient strip extending along the high expansion side of said bimetal element but spaced therefrom and said resilient strip having an abutment disposed between said adjusting means and said trip member, said bimetal element deflecting when heated a predetermined amount in response to overload currents below a predetermined value to cause said adjusting means to engage said abutment and move said resilient strip to thereby cause said abutment to engage and actuate said trip member, electroresponsive means comprising a pair of magnetic members one mounted on said bimetal element and the other mounted on said resilient strip, said electroresponsive means being

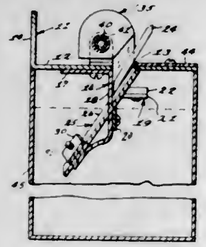
energized in response to overload currents above said predtermined value flowing through said bimetal element and operable when energized to cause said abutment to engage and instantaneously actuate said trip member, said adjusting means being adjustable to vary the thermal tripping point without changing the position of said bimetal element or said resilient strip.

2,588,498
TYPIST'S RULE
Dallas B. Driskill and Joseph W. Driskill, San Francisco, Calif.
Application February 19, 1951, Serial No. 211,781
2 Claims. (Cl. 33—107)



1. In a typist's rule, an elongated flat member provided with measuring indicia, a curved portion adjacent one end of said rule, an offset foot extending outwardly from said curved portion, the radius of said curved portion being the same as the radius of a conventional typewriter platen, said member being adapted to engage said platen and one of the stationary portions of a typewriter adjacent said platen.

2,588,499
RECIPROCATING CHALK SHARPENER
Theodore Dubek, Astoria, N. Y.
Application June 16, 1950, Serial No. 168,632
3 Claims. (Cl. 120—89)



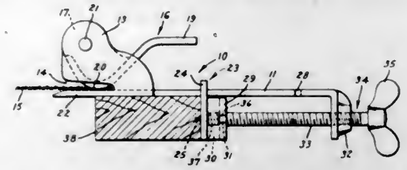
1. A chalk sharpener comprising a table provided with a longitudinally extending slot, a guideway positioned below and in longitudinal spaced aligned relation with respect to said slot and dependingly supported from said table, an upstanding fixed blade supported from said table arranged longitudinally of said guideway intermediate its ends and having the portion adjacent the lower end extending at an acute angle through said guideway, a sleeve arranged longitudinally of and spaced above said table slot and supported on said table, and an upstanding chalk pusher element arranged transversely of and extending through the longitudinal table slot and having the lower end extending into said guideway and supported on said sleeve for longitudinal back and forth movement for feeding an upstanding piece of chalk when supported by a side edge of said table slot and said guideway into engagement with the lower end portion of said blade.

2,588,500
PROCESS FOR MAKING HEAT EXCHANGERS
Hugh C. Dugan, Elyria, Ohio
Application August 18, 1945, Serial No. 612,979
7 Claims. (Cl. 29—157.3)



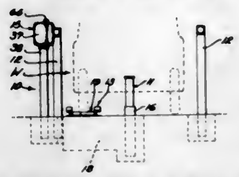
1. The process of making a heat exchanger comprising the steps of: providing two fluid chamber walls, at least one of which is a heat transfer wall; forming a plurality of metal coils each having a flattened side; assembling said coils in side by side and inter-engaged relationship; positioning in a plane the flattened side of the respective loops of each coil between and in contact with the flattened side of respective loops of adjacent interengaged coils to provide a contiguous series of said flattened loop sides in said plane; placing the said assembly of coils between said walls with said series of flattened sides adjacent said heat exchange wall; pressing said walls together against said coils to make thermal connection between said coils and said heat exchange wall; and connecting said walls to enclose said chamber.

2,588,501
STRETCHING TOOL
Samuel R. Dummer, Dunellen, N. J.
Application August 15, 1946, Serial No. 690,655
1 Claim. (Cl. 140—109)



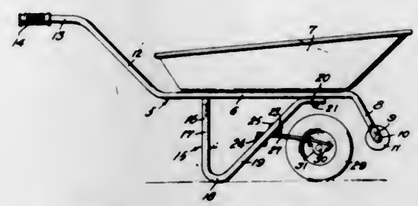
In a hand tool for stretching wire screening and the like over a frame opening and holding the screening in place and in stretched condition while it is being tacked to the frame, a pressure plate having a vertical frame-engaging face and a horizontal way therethrough downwardly of its upper edge, an elongated body extending through and slidably guided in said way against all but longitudinal movements relative to said plate having a horizontal frame-engaging lower surface at right angles to said face of said plate, the upper surface of the inner end portion of said body plane and flat and comprising a jaw, a second jaw, means pivoting said second jaw on the forward portion of said body for swinging movement to and from clamping relation with the first mentioned jaw, said second jaw having a smooth rounded bottom clamping portion eccentric to its pivot, the outer end portion of said body extending downwardly in substantially parallel relation with said vertical frame-engaging face of said pressure plate, a horizontal screw threaded through said body portion and connected with said pressure plate for turning movement relative thereto whereby turning of said screw causes relative movement of said pressure plate and said body in the direction of the length of the latter, and prong means on said vertical frame-engaging face of said pressure plate below said way for digging into the edge of a frame member to anchor the clamp thereto.

2,588,502
PARKING WAY CONTROL SYSTEM
Fred P. Dunn, Glendale, Calif.
Application May 9, 1947, Serial No. 746,889
5 Claims. (Cl. 39—8)



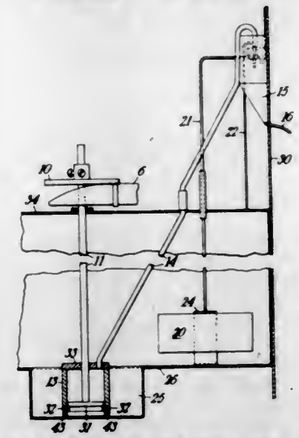
1. Control mechanism for an automobile parking area having a way through which automobiles pass, comprising a barrier movable vertically in said way to arrest and permit advancement of an automobile therethrough, means responsive to weight imposed thereon by the automobile for retraction of the barrier to permit advancement through said way, control mechanism connecting said means with the barrier, a cylinder and piston means operable by retraction of the barrier and normally preventing said retraction, and a valve controllable at a location remote from said barrier and governing operation of said cylinder and piston means.

2,588,503
BALANCED LOAD WHEELBARROW
James Dwyer, Colorado Springs, Colo.
Application March 25, 1949, Serial No. 83,500
1 Claim. (Cl. 280—52)



In a wheelbarrow including a load carrying pan and a carrier wheel, said carrier wheel being mounted under the pan at approximately the center of gravity of the pan when loaded to the brim, a frame structure under the pan and secured thereto, a leg structure secured to said pan and comprising two laterally spaced depending members secured to the frame structure and means secured to the leg structure and carrying said wheel, said means consisting of a pair of spring members projecting forwardly from said leg structure and between which the wheel is mounted, and attaching means securing said spring members to the leg structure, said attaching members consisting of a pair of vertically spaced bars bridging the depending members of said leg structure and having medial portions twisted to parallel planes with the spring members interposed between said twisted portions and being secured thereto.

2,588,504
MECHANISM FOR DELIVERING INFLAMMABLE LIQUIDS
Arthur Charlton Elliott, Maidstone, England
Application June 7, 1948, Serial No. 31,545
In Great Britain October 27, 1947
2 Claims. (Cl. 222—109)

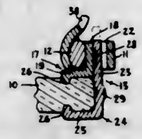


1. A dispensing mechanism for filling mechanical lighters with fuel comprising a storage container for fuel, a closed cylinder associated with said container, an inlet adjacent one end of the cylinder providing communication between the cylinder and the container, a delivery duct communicating with the opposite end of the cylinder from the inlet and having its outlet end located exteriorly of the container, a piston within said cylinder, an operating rod connected to said piston and extending outwardly through an end of the cylinder, means for automatically retracting the piston to the end of the cylinder into overlying relation with the inlet and a channel in the piston providing communication between the inlet and the inside of the cylinder only when the piston is in its fully retracted position, whereby upon the retracting stroke of the piston a vacuum is created within the cylinder to draw surplus fuel back into the cylinder from the delivery duct, an overflow drain situated adjacent and at an elevation below the outlet end of the delivery duct for returning surplus liquid to the container, said overflow drain comprising a pipe having a U-shaped bend for forming a liquid seal between the entrance and discharge ends of the pipe with the discharge end of the pipe terminating at an elevation above the bottom of the U-shaped bend and a flame arrester of wire gauze overlying the entrance end of the pipe.

2,588,505
OPHTHALMIC LENS MOUNTING
Charles A. Ellis, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application April 7, 1949, Serial No. 85,961
2 Claims. (Cl. 88—47)

1. In a lens supporting structure for the lenses of an ophthalmic mounting having a marginally disposed recess in one surface thereof, means for securing lenses with said supporting structure comprising a pair of lens surface engaging strap-like members adapted to overlie the opposed surfaces of a respective lens and one having a pro-

jection to fit within said marginally disposed recess, the strap-like member overlying the front surface of the lens having a relatively flat end part angled therefrom to traverse the edge of the lens and extend rearwardly of the rear surface of said lens, and the other member also having a rearwardly extending end part, the rearwardly extending end part of one of said members being formed with an integral ear folded over said rearwardly extending end part to form a guideway having spaced substantially planal sidewalls



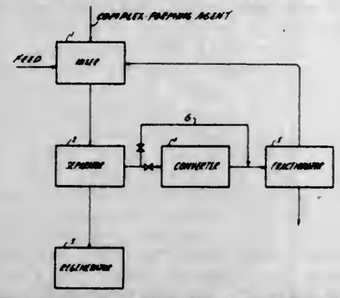
with an entrant opening therebetween to receive the rearwardly extending end part of the other strap-like member, said end part of the latter strap-like member being slidably adjustable between said opposed substantially planal walls of the guideway to bring said members into clamping engagement with the opposed surfaces of the lens, and connection means carried by one of said end parts by which the other end part may be secured thereto to retain said end parts in the required adjusted relation to maintain the lens in assembled relation with the supporting structure.

2,588,506

EXTRACTIVE FRACTIONATION PROCESS

Lloyd C. Fetterly, Long Beach, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application April 15, 1947, Serial No. 741,677
15 Claims. (Cl. 260—666)



10. In the process for the extractive fractionation of mixtures of organic compounds with a complex forming agent selected from the group consisting of urea and thiourea, whereby complexes of said agent with a fraction of said mixture separate and are removed from the raffinate comprising the remaining fraction of said original mixture, the improvement which comprises removing from said raffinate a predetermined portion thereof and recycling the remaining portion of the raffinate to a point prior to separation of said complexes.

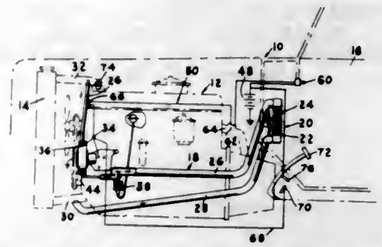
2,588,507

HEATER BOOSTER BRAKE

Howard J. Findley, Chardon, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application November 12, 1948, Serial No. 59,547
10 Claims. (Cl. 237—8)

3. A heating system for heating the passenger compartment of automotive vehicles comprising a heater liquid circulating system interconnected with the conventional liquid cooling circulating system of the vehicle engine between the inlet and outlet of the heat source therefor, a heat transfer core connected in the heater circulating system, an electromagetic power absorption device driven from the engine for heating the liquid in the heater circulating system, an electrical circuit supplying electrical current to the device, a pair



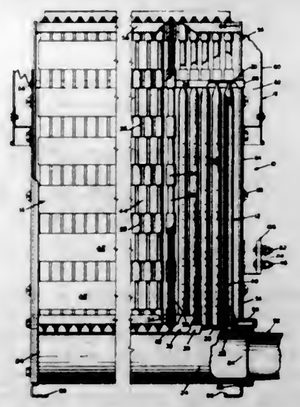
of thermostatically actuated switches arranged in the circuit for controlling the operation of the device for power absorption and heat production one in the engine exhaust responsive to the temperature therein, and the other in the inlet of the heater liquid circulating system responsive to the temperature of the liquid therein and a thermostatically operated normally closed valve in the heater circulating system.

2,588,508

THERMOELECTRIC GENERATOR

Howard J. Findley, Chardon, Ohio, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application August 26, 1949, Serial No. 112,603
18 Claims. (Cl. 136—4)



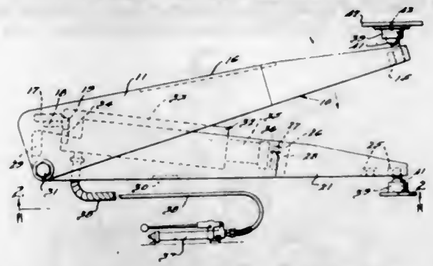
1. In a thermoelectric generator, a frame having upright end walls, spaced-apart substantially parallel upright thermopiles extending between said end walls and carrying banks of thermocouple elements having hot junctions on the adjacent sides of said thermopiles and cold junctions on the remote sides, and fuel burning means disposed between said thermopiles and being substantially longitudinally coextensive with the thermocouple banks and operable to supply heat to said hot junctions, said thermopiles having a plurality of like equi-spaced air passages extending therethrough from the remote to the adjacent sides thereof for admitting combustion air to the fuel burning means.

2,588,509

SCISSOR TYPE ELEMENT FOR REMOVING DENTS FROM BODY AND FENDER PANELS

Francis G. Forster, Ecorse, Mich.

Application April 12, 1948, Serial No. 20,414
2 Claims. (Cl. 153—39)



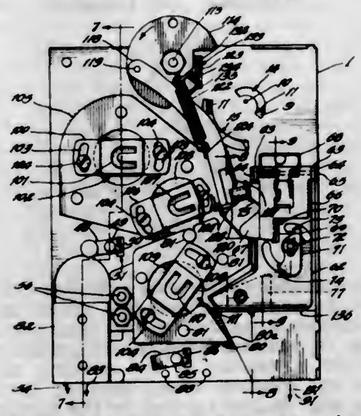
1. In a device for pushing and straightening panels, a pair of channel-shaped arms of substantial depth near one end, a pivot for securing the two arms together at said end near one edge thereof, anchoring means on one arm at said end near the other edge thereof, and anchoring means on the other arm remote from said end of greater depth, said anchoring means being disposed to receive a pressure applying device for applying a force longitudinally of said arms for moving the unpivoted ends of the arms outwardly relative to each other substantially at right angles to the direction of said applied force.

2,588,510

MULTIPLE COIN SELECTOR

Robert M. Foushee and John Gottfried, St. Louis, Mo., assignors to National Rejectors, Inc., St. Louis, Mo., a corporation of Missouri

Application May 21, 1947, Serial No. 749,524
3 Claims. (Cl. 194—97)



1. In a coin separator a frame means including an entrance passageway for conducting edgewise gravity controlled coins, a testing passageway in said frame connecting said entrance passageway, a runway in said frame positioned in said testing passageway having one end adjacent said entrance passageway, a cradle means pivotally mounted in said frame means adjacent said entrance passageway, said cradle means having a pair of projections extending into said entrance passageway for straddling a coin of acceptable diameter and weight and transferring said coin to said runway, one of said cradle projections normally blocking the entrance of said testing passageway, a pendant pivoted for rotation on said frame means and in said entrance passageway, the axis of rotation of said pendant positioned parallel to the axis of rotation of said cradle and spaced from said runway, a locking projection extending from said pendant normally clearing the path of movement of said cradle means whereby the descent of a coin of less than acceptable diameter and of proper weight in said entrance passageway will by-pass between said cradle projections and impinge said end of said runway and one edge surface of said pendant and move said pendant to position its said locking projection into the path of movement of said cradle means for preventing movement thereof and retaining the said one of said projections in blocking position in the entrance of said testing passageway to momentarily prevent a subsequent coin from entering said testing passageway.

2,588,511

CATALYST FOR THE SYNTHESIS OF HYDROCARBONS BY REDUCTION OF CARBON MONOXIDE WITH HYDROGEN AND PROCESS OF UTILIZING SAME

Alvin H. Friedman, Kansas City, Mo., and Jesse N. Moran, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Original application February 10, 1947, Serial No. 727,726. Divided and this application April 11, 1949, Serial No. 86,858
6 Claims. (Cl. 260—449.6)

1. The process of synthesizing hydrocarbons by the catalytic reduction of carbon monoxide with hydrogen which comprises contacting under reaction conditions including a temperature in the range of 175 to 325° C. a synthesis gas comprising carbon monoxide and hydrogen with a catalyst consisting essentially of a reduced, ground, fused mixture of iron oxide and a mixed silicate of aluminum and a metal selected from the group consisting of the alkali and alkaline earth metals in which the iron is in elemental form and said mixed silicate is employed in an amount ranging from 20 to 75 per cent by weight based on the total weight of said mixed silicate, so as to synthesize hydrocarbons; and recovering synthesized hydrocarbons.

2,588,512

VINYL CHLORIDE POLYMERS PLASTICIZED WITH ALKYL BENZYL TETRACHLOROPHTHALATES

Harry R. Gamrath, St. Louis, and William E. Weesner, Webster Groves, Mo., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 13, 1950, Serial No. 161,902
9 Claims. (Cl. 260—31.8)

1. A composition comprising a vinyl chloride-containing polymer and an alkyl benzyl tetrachlorophthalate wherein the alkyl group contains from 1 to 9 carbon atoms.

2,588,513

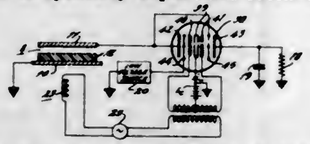
ELECTROSTATIC HIGH-VOLTAGE GENERATOR

Lawrence J. Giacoletto, Eatontown, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 10, 1949, Serial No. 98,303
18 Claims. (Cl. 320—1)

1. An electrostatic device comprising a first condenser plate, a second condenser plate, a solid

dielectric layer between said plates, means for periodically moving one of said plates in a direction substantially at right angles to the surface thereof to vary the relationship between said plates from a first condition in which said plates are in intimate contact with opposite faces of said layer to a second condition in which said one plate is spatially separated from said layer,



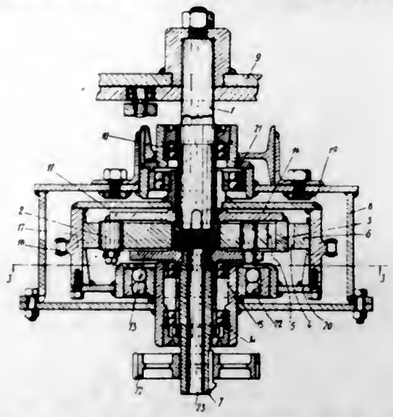
a source of charging potential, a high voltage utilizing circuit, first switch means arranged to interconnect said one plate with said source while said one plate is in contact with said layer and to break said connection at least as soon as said one plate begins to shift from said engagement, and second switch means to interconnect said one plate with said circuit in said second condition.

2,588,514
FERROUS ALLOYS
James P. Gill, Latrobe, Pa., assignor to Vanadium-Alloys Steel Company, Latrobe, Pa., a corporation of Pennsylvania
No Drawing. Application August 5, 1950, Serial No. 177,963
7 Claims. (Cl. 75—123)

2. An improved forgeable and machinable quenched alloy steel consisting essentially of about 1.65% to about 2.50% carbon, about 7.50% to about 15.00% tungsten, from 0% to 2.50% vanadium and an amount not exceeding 1.50% of a combination of at least three alloying elements from the group consisting of silicon, manganese, chromium and molybdenum and the balance iron and the normal impurities of sulfur and phosphorus, said alloying elements being individually present in amounts between 0.10% and 1.00%, said amount being adjusted to cause hardening from the surface to a depth of about 7/64ths of an inch across the section of a round bar 1½ inches in diameter or larger.

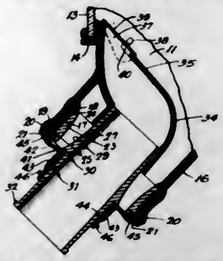
2,588,515
REVERSIBLE ROLLER TYPE CLUTCH
Pierre Charles Jean Gilson, Campagne-lez-Wardrecques, France
Application December 22, 1945, Serial No. 636,767
In France September 6, 1945
1 Claim. (Cl. 192—44)

A clutch device adapted to transmit power and motion from a prime mover to a secondary power and motion transmitting tool, which comprises: a driving member mounted about a central axis and having an inner circular operative surface; a prime mover for imparting to said driving member around said axis a rotary motion at a uniform angular speed; a pilot member mounted on a first rotary shaft separate from, and coaxial with, said driving member; actuating means connected with said pilot member, adapted to impart thereto a variable angular speed; at least one cam member integrally connected to said pilot member and having its effective cam surface inside said inner circular operative surface; a driven member mounted on a second rotary shaft coaxial with and separate from said driving member and first shaft, said driven member actuating said secondary power and motion transmitting tool; at least one roller in constant engagement with said driven member and freely movable radially thereof, said roller being disposed between the inner surface of said driving member and the effective surface of said cam; the profile of the effective surface of said cam relative to said inner circular operative surface being such as to wedge said roller between said surfaces when the relative motion of said pilot member and cam



to said circular operative surface occurs in one direction and to free said roller when said relative motion occurs in the opposite direction, said relative motions being instantaneous and successive; the uniform angular speed of said driving member being at least equal to the maximum value of the variable angular speed of said pilot and cam members.

2,588,516
GAS MASK
Galen M. Glidden, Wheaton, Ill.
Application February 21, 1947, Serial No. 729,951
2 Claims. (Cl. 128—141)

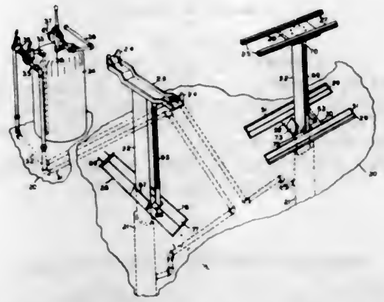


2. A gas mask comprising a molded rubber face portion having a sight window, an air inlet passage interiorly molded in the face portion and having an opening adjacent the sight window, a flexible extension in the opening extending toward the window, and a dead air check valve having side flanges carried by the extension for overlying and sealing the opening in closed position and for directing air onto the sight window in open position.

2,588,517
BIPHENYL AMINE SALTS OF PENICILLIN
Alphonse P. Granatek, Syracuse, N. Y., assignor to Bristol Laboratories Inc., Syracuse, N. Y., a corporation of New York
No Drawing. Application March 8, 1951, Serial No. 214,639
2 Claims. (Cl. 260—239.1)

1. Para-amino biphenyl penicillin.

2,588,518
CLOSURE AND CLOSURE OPERATOR FOR PIT MOUNTED AUTO LIFTS
Harold N. Grushon, Dayton, Ohio, assignor to The Joyce-Cridland Company, Dayton, Ohio, a corporation of Ohio
Application July 12, 1946, Serial No. 683,281
16 Claims. (Cl. 254—89)

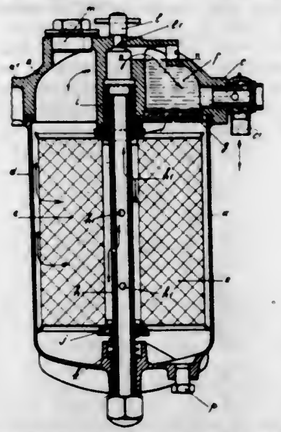


6. In combination with a lifting mechanism adapted to be mounted below an opening in a floor and having a part movable through said opening, a movable closure for said opening, said closure comprising two parts one of which is movable with relation to the other, an actuating device for moving the two parts of said closure simultaneously to open position, one part of said closure being movable to closed position while the other part thereof remains in an at least partially open position, and means controlled by said lifting mechanism for operating said actuating device.

10. In a mechanism of the character described, a frame adapted to be mounted below an opening in a floor, doors pivotally mounted on said frame for movement into and out of positions to close said opening, a lifting mechanism adapted to be mounted below said opening and including a part movable through said opening, an elongate vertical cam member connected with said lifting mechanism for movement thereby and having vertically spaced oppositely inclined cam surfaces, door operating mechanism below said opening including a vertically movable structure supported by said frame and operatively connected with said doors, a horizontally movable structure having a part to engage said cam member and move said horizontally movable structure in one direction, spring means to move said horizontally movable structure in the other direction, and bell cranks pivotally supported on said frame and each having one arm connected with said horizontally movable structure and its other arm connected with said vertically movable structure.

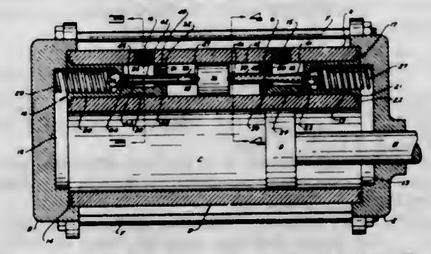
2,588,519
LIQUID FILTER
Auguste Guiot, Paris, France, assignor to Fram Corporation, a corporation of Rhode Island
Application March 14, 1949, Serial No. 81,353
In France April 23, 1948
3 Claims. (Cl. 210—164)

1. In a liquid filter, a head having an inlet opening and an outlet opening, a depending container removably secured to said head into and through which liquid must pass in flowing from the inlet opening to the outlet opening, said head having a chamber of substantial depth for containing liquid from which chamber said outlet opening leads at a point substantially below an inlet opening into said chamber, said chamber being of sufficient depth and said point being



sufficiently below to maintain a liquid seal when said container is removed from the head.

2,588,520
HYDRAULICALLY OPERATED CHECK VALVE MECHANISM
Henry A. Halgren and Victor N. Albertson, Minneapolis, Minn., assignors by mesne assignments to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota
Application October 12, 1946, Serial No. 702,984
15 Claims. (Cl. 121—40)

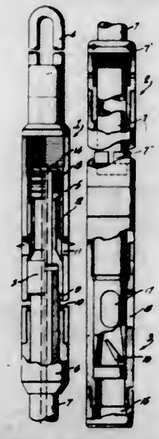


1. In a device of the character described, a valve housing having spaced fluid chambers and a check valve communicating with each chamber controlling fluid flow thereinto, and said housing having also a third fluid chamber, means supplying fluid to the chambers, an actuator plunger in said third chamber having stems adapted to selectively engage and unseat the check valves, and means separating the first mentioned chambers from opposite ends of the third chamber but having openings permitting restricted fluid flow therebetween, said stems having tapering portions operative as metering pins for metering fluid flow through the check valves.

2,588,521
CONTROL VALVE FOR PRESSURE BAILERS
Walter R. Hanline and James W. E. Hanes, Ventura, Calif.
Application August 7, 1948, Serial No. 43,135
3 Claims. (Cl. 166—19)

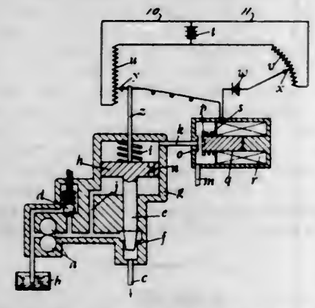
1. A control valve for pressure bailers, said bailer including a tubular pressure top, a plunger barrel and a dump bottom, said tubular pressure top having ports extending through the wall thereof, a pipe extending into and slidably

mounted in said pressure top, and also extending through said plunger barrel and into said dump bottom, said pipe being fixedly attached at its lower end to the dump bottom, means in the pressure top engageable by said pipe to limit the longitudinal movement of said pipe in the pressure top, said pressure top including an area of reduced diameter above said ports, pack-



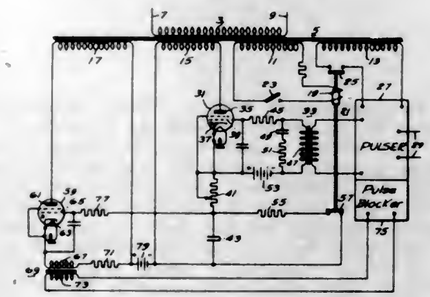
off means on the upper end of said pipe engageable with the reduced diameter area of the pressure top to seal off said pressure top above said ports, said packoff means being of less diameter than the inside of the pressure top above said area of reduced diameter, said packoff means engaging the area of reduced diameter only on downward movement of the pipe relative to the pressure top.

2,588,522
REGULATING MEANS FOR LIQUID FUEL SUPPLY SYSTEMS OF PRIME MOVERS OR OTHER APPARATUS
Thomas Alfred Harris, Edgbaston, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application July 15, 1949, Serial No. 104,994
In Great Britain July 30, 1948
1 Claim. (Cl. 121—41)



Fuel supply regulating means comprising in combination a valve, an electromagnet having an exciting winding and a movable member responsive to excitation of the winding for moving the valve in one direction, a spring opposing movement of the valve by the movable member of the electromagnet, an electric current supply circuit having a pair of parallel branches, a pair of potentiometers forming parts of the circuit branches and having adjustable contacts connected to opposite ends of the electromagnet winding, a rectifier connected between one of the potentiometer contacts and the corresponding end of the electromagnet winding, a fuel regulating member, and a fluid-operated servo-mechanism operable under the control of the valve for actuating the fuel regulating member and imparting adjusting movement to one of the potentiometer contacts.

2,588,523
CONTROL APPARATUS
Edward C. Hartwig and William E. Large, Tonawanda, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 22, 1946, Serial No. 692,401
9 Claims. (Cl. 315—275)

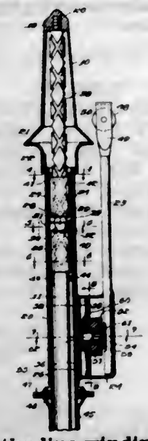


1. Control apparatus comprising means adapted to function as an alternating voltage source, an electric valve of the arc-like type in a main circuit across said source, a control circuit for said valve effective to render it conductive in each positive half-period of said source voltage in which the total voltage in said control circuit is more positive than a predetermined critical value, said control circuit including a capacitor and normally having a total voltage less positive than said critical value whereby said valve is maintained non-conductive, a charging circuit operable only while said valve is maintained non-conductive for gradually charging said capacitor with a polarity such that the total voltage in said control circuit becomes more positive than said critical value when the capacitor attains a predetermined charge, and means in said main circuit effective when said valve becomes conductive to cause said capacitor to receive an additional charge of the same polarity independently of said charging means.

2,588,524
END CASTING AND RETRIEVING REEL
Earl Herbert, St. Joseph, Mo.
Application October 27, 1949, Serial No. 123,966
5 Claims. (Cl. 242—84.4)

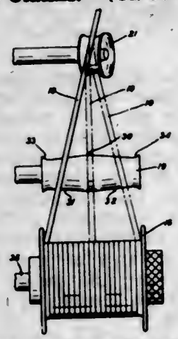
1. A fishing line casting reel comprising a U-shaped bracket having a mounting arm and a spindle arm parallel to the mounting arm, means for attaching the mounting arm to the handle of a fishing rod, a tapering reel core carried by the outer end of the spindle arm, said spindle arm having a double thread on the end thereof, a line winding arm spaced from and rotatably mounted on the said spindle arm, line guide means in the outer end of the line winding arm, said line winding arm adapted to be manually reciprocated in relation to the spindle arm, means actuated by

the said double thread of the spindle arm rotating the line winding arm around the spindle, and a



brake carried by the line winding arm for retarding rotation of the said arm on the spindle.

2,588,525
METHOD OF AND APPARATUS FOR GUIDING FILAMENTS
Edgar W. Hertenstein, Jr., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application June 6, 1947, Serial No. 753,145
5 Claims. (Cl. 57—3)



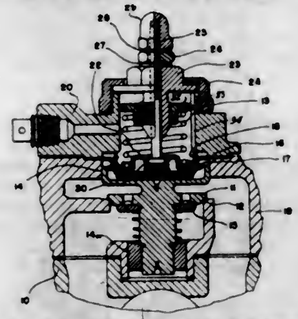
1. An apparatus for advancing a stiff metal tape from a supply reel upon which it is distributed in layers and for applying the tape under uniform tension around an advancing coaxial cable core, which comprises means for rotatably supporting a reel having tape so applied thereon, means for rotating the reel supporting means about the advancing core to apply the tape helically thereupon and to withdraw the tape from the reel, means for applying a retarding force to the reel which is proportional to the radius of the outermost layer of tape on the reel, means for guiding the tape towards the core at a predetermined angle, and a crowned roller parallel to and offset from the axis of the reel over which the tape passes in its travel from the reel to the guiding means, said crowned roller being at least as long as the lateral movement of the tape passing thereover and being so designed that the tape engages it with only a line contact whereby the tape slides freely along the roller in an edgewise direction as the tape moves to and fro while being withdrawn from the reel and the length of the path of the tape varies constantly in accordance with the position of the point at which the tape leaves the reel so as to maintain substantially uniform tension thereon.

2,588,526
BAIT HOLDER
Clyde C. Hoage, Ely, Minn.
Application January 11, 1949, Serial No. 70,241
5 Claims. (Cl. 43—44.6)



1. A holder for live bait comprising a pair of complementary clasps each having an arcuate portion for surrounding the bait and a tooth portion on the outer ends for securing engagement with the bait, a handle portion extending from each of the arcuate portions and curved to provide substantial resistance to water, a strap portion extending from each of the clasp members and intermediate of the arcuate portion and the handle portion, the free ends of each of the strap portions overlapping and being provided with an aperture, a hook having its shank positioned in said aperture, a coil spring positioned between the complementary clasp members and having extended ends, the coil spring being aligned with the apertures and the strap portions and snugly fitting the shank of the hook and the extended ends being in engagement with the handles to normally urge the clasps to closed position, the parts being so constructed and arranged that the spring and clasps when in closed position are relatively free to move on the hook shank and in open position the spring and clasp are in frictional engagement with and hence are immovable on the hook shank.

2,588,527
RELIEF VALVE CONSTRUCTION
Trent H. Holmes, Middletown, Conn., assignor by mesne assignments to Niles-Bement-Pond Company, Hartford, Conn., a corporation of New Jersey
Application April 13, 1944, Serial No. 530,872
6 Claims. (Cl. 137—53)



2. Relief valve mechanism comprising a casing having a valve seat therein, a valve within said casing cooperating with said seat, a plurality of pistons on opposite sides of said valve, reciprocable in bores in said casing, for guiding said valve, a spring for biasing said valve toward said seat, stop means for limiting the movement of said spring toward said valve seat to permit said

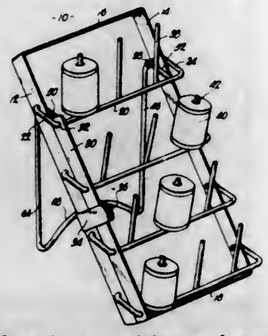
valve to move a predetermined distance from said seat without opposition by said spring, means movable from the exterior of said casing for adjusting the loading of said spring, and means movable from the exterior of said casing independently of the adjustment of the first movable means for adjusting the position of said stop means to vary said distance.

2,588,528
FINGER SHAPED THIMBLE
Claude M. Howser, Santa Barbara, Calif., assignor to California Thimble Corporation, Santa Barbara, Calif., a corporation of California
Application July 27, 1948, Serial No. 40,905
4 Claims. (Cl. 223—101)



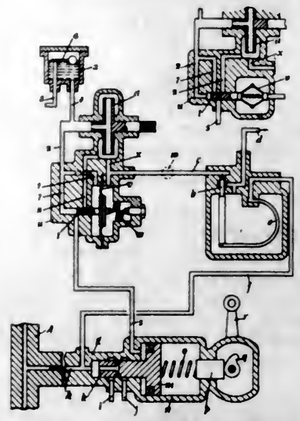
2. A thimble comprising a bottom, sides and top portions, said top portion comprising a side wall conforming with and lying adjacent the fingernail of a finger inserted therein, said side wall being substantially flat, the outer side of said side wall having a plurality of external grooves extending longitudinally of the thimble, said plurality of grooves terminating at a plurality of stepped shoulders on the outer surface of said side wall, said shoulders extending transversely of the thimble and forming stops for the end of a needle, said shoulders extending progressively outwardly as measured from the inner end of the thimble so that said side wall more nearly conforms to the shape of the fingernail of a finger inserted into the thimble.

2,588,529
SPOOL RACK
George B. Hume, Kansas City, Mo., assignor to Hume Manufacturing Company, North Kansas City, Mo., a corporation of Missouri
Application June 15, 1949, Serial No. 99,158
4 Claims. (Cl. 242—139)



1. A spool rack comprising a frame including a pair of spaced-apart sides; a plurality of spaced-apart C-shaped members carried by the frame and each including a cross-bar, a pair of spaced arms and a pair of opposed ears, each ear being pivotally mounted in a respective side of said frame; a plurality of spool-receiving pins on each cross-bar respectively and perpendicular thereto; and an elongated link pivotally receiving all of said cross-bars to gang the members together for simultaneous swinging movement with respect to the frame.

2,588,530
APPARATUS FOR SUPPLYING LIQUID FUEL TO THE COMBUSTION CHAMBER OF, AND CONTROLLING THE QUANTITY OF MOTIVE AIR IN, HOT-AIR ENGINES
Richard Joseph Ifield, Dural, New South Wales, Australia, assignor to Joseph Lucas Limited, Birmingham, England
Application January 7, 1949, Serial No. 69,722
In Great Britain January 10, 1948
7 Claims. (Cl. 60—24)



1. Apparatus for supplying liquid fuel to the combustion chamber of, and controlling the quantity of motive air in, a hot-air engine, and comprising the combination of a centrifugal fuel pump, means responsive to pressure of the motive air in the engine for controlling the flow of fuel from the pump to the combustion chamber of the engine, means responsive to the pressure of the liquid fuel for varying the quantity of motive air in the engine, a valve for controlling the second mentioned means, and means responsive to a force dependent on motion of the engine for actuating the valve.

2,588,531
ELECTRIC SOLDERING IRON
Arthur L. Johnson, Roselle Park, N. J.
Application April 26, 1948, Serial No. 23,332
2 Claims. (Cl. 219—26)



1. In an electric soldering iron, a tip comprising a one-piece body of suitable form providing a tip portion and an elongated core portion rearwardly projecting from said tip portion, said body being composed of a metal possessing high heat conductivity such as copper and alloys thereof and having an oxidation inhibiting surface coating of iron, and an outer heat conducting layer of a metal possessing heat conductivity higher than that of the body metal encasing said body and its iron coating in heat conducting relation

to the latter; and a heating element cooperating with said tip in a manner to effect an improved heat balance therebetween and comprising a resistance coil permanently affixed to the core portion of the tip in close concentric proximity to the outer heat conducting layer thereof, whereby one increment of heat generated by said resistance coil will be conducted radially through said heat conducting layer to the core portion of the body and thence axially through the latter to the tip portion, and whereby another increment of heat will be conducted axially through the outer heat conducting layer from the heating element directly to the working surface of the tip portion for addition to the first-mentioned heat increment to raise the temperature of said working surface to a degree permitting a reduction in the heat generating characteristics of the resistance coil of the heating element below those normal for a solid copper tip.

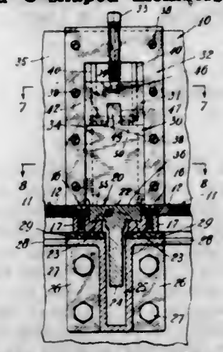
2,588,532
JET PROPULSION UNIT
John Algot Johnson, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 12, 1943, Serial No. 486,655
3 Claims. (Cl. 60—35.6)



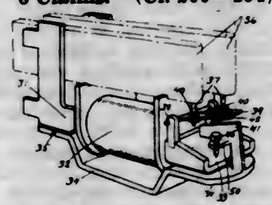
1. A jet propulsion unit comprising a gas compressing means having a forwardly facing inlet and rearwardly discharging high and low pressure compressing portions, a turbine spaced from and drivingly connected with said compressing means, a combustion chamber interposed between and connecting the discharge of said high pressure compressing portion with the inlet of said turbine, a rearwardly directed thrust producing nozzle structure, means including said combustion chamber and turbine forming a first fluid confining passage connecting the discharge of said high pressure compressing portion with said nozzle structure, the major extent of the high pressure compressing portion being surrounded by a heat exchanging wall structure separating the gas issuing from the discharge of the low pressure compressing portion from that undergoing further compression in the high pressure compressing portion, said heat exchanging wall structure abstracting heat from the gas undergoing further compression for substantially reducing the power required for driving said gas compressing means and increasing the total heat energy delivered to said nozzle structure, and an outer shell means forming with said heat exchanging wall structure and said turbine a second passage surrounding said combustion chamber and directly connecting the discharge of said low pressure compressing portion with said nozzle structure.

2,588,533
PAPER PULP SCREEN PLATES AND SUPPORT MEANS FOR THE SAME
Victor Johnson, Providence, R. I.
Application November 29, 1946, Serial No. 713,188
6 Claims. (Cl. 92—30)

1. A paper pulp screen comprising a frame having a plurality of screen-plates therein, said screen-plates having a plurality of slots substantially oblong cross section the areas of which are minimum toward the top of said plates and are gradually increasing toward the bottom thereof inducing maximum velocity of the flow of the pulp at the top regions of the slots accompanied by minimum pressure head and corresponding suction effect whereby the flow of the pulp through said slots is enhanced and their clogging is inhibited; transversely spaced U-shaped screen-plate supporting members secured to the inner sides of said frame; the upper ends of said U-shaped members provided with outwardly extending, horizontal flanges adapted to support said screen-plates; the longitudinal edges of said screen-plates having outwardly extending, upwardly inclined cut-out portions; holding down bars registering with said inclined cut-out portions; said holding down bars provided with a depending center-rib which penetrates, when assembled the U-shaped portion of said U-shaped members thereby serving as a guide for locating the screen-plates in the frame; a gasket between the screen-plates and the flanges of the U-shaped members; clamping mechanisms adapted to bear against the upper ends of said holding down bar and securely tighten the screen-plates against the U-shaped members; said clamping mechanisms embedded in the vertical sides of said frame and in vertical alignment with said U-shaped members; said clamping mechanisms comprising a clamp housing having a pair of oppositely spaced vertical rails adapted to slidably engage a follower; a clamping member hingedly mounted to the underside of said follower; means to raise or lower said clamping member; said follower and said clamping member are attached to each other by a pin secured to said follower; said clamping member having an elongated slot to freely accommodate said pin thereby permitting said clamping member to be swung outwardly.



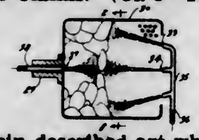
2,588,534
ELECTROMAGNETIC RELAY WITH ADJUSTABLE LEVER-RELATION
Anders Ossian Jörgensen, Hallebergsvagen, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden
Application September 27, 1948, Serial No. 51,445
In Sweden October 9, 1947
6 Claims. (Cl. 200—104)



1. In an electromagnetic relay, in combination, a magnet having a core, contact springs sup-

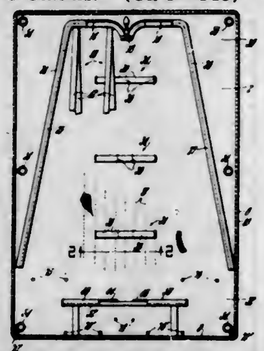
ported adjacent said magnet, an armature fulcrumed to and associated with said core remote from and to actuate said springs when the magnet is energized, a lift member for said springs, a lever interposed between said armature and lift member and having a fixed fulcrum remote from the armature fulcrum and an actuating arm of fixed length for actuating said lift member, a stud positioned to move said lever from said armature, and means whereby the stud may be adjusted toward or from said lever fulcrum to change the activated arm of the lever.

2,588,535
WASHING AND THE EXTRACTION OF WASH WATER
Leo M. Kahn, Island Park, N. Y.
Application December 23, 1944, Serial No. 569,609
3 Claims. (Cl. 8—147)
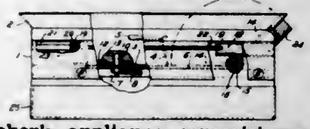


3. The herein described art which includes the steps of, rotating a cylindrical washing machine drum about a horizontal axis at relatively low speed to launder articles disposed therein, exerting a force on the articles in said drum axially thereof while the drum is rotating at low speed to concentrate said articles in an evenly distributed mass at one end of the drum, and then rotating said drum at a substantially higher speed to extract water from the articles therein.

2,588,536
SLEEPING BAG
Julius Kaplan, Springfield, Mass.
Application December 20, 1950, Serial No. 201,794
3 Claims. (Cl. 5—343)



1. A sleeping bag comprising in combination, a structure of flat pliable sheet material, and a pair of anchor members each secured to said structure and having a free edge extending from said structure and provided with securing elements fixed to such free edges, said pair forming a substantially inverted U having transverse portions adjacent one end portion of said structure and having side portions extending from said transverse portions to the longitudinal side edges of said structure, the securing members of said anchor members being cooperable when brought into cooperating engagement after the folding inwardly of said side portions of said structure upon the main body thereof to maintain said structure in an arrangement forming a bag.

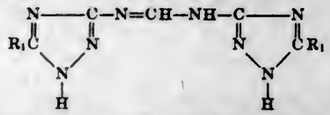
2,588,537
SMOKER'S APPLIANCE
Hugh Tennant Kelly, Wiseton, Saskatchewan, Canada
Application June 20, 1949, Serial No. 100,177
1 Claim. (Cl. 131—237)



A smoker's appliance comprising a smoker's refuse-receiving tray, a frame removably carried by the tray, a planar platform having a smoker's refuse-receiving portion mounted in the frame, adapted to be reciprocated linearly in the plane of said platform, and surmounting the tray in substantially parallel relation thereabove, means for extinguishing cigarettes and for disposing of smokers' refuse deposited on said portion of the platform comprising pins rotatably mounted in the frame on an axis disposed parallel to and adjacent one edge of said portion, a plate having one edge fixed to the pins and swingable on rotation of the pins, a spring-pressed member acting upon the plate and urging it away from said portion of the platform, and a manually engageable member connected to the pins for rotating the latter and swinging the plate into overlying relation to said portion of the platform to engage a lit cigarette therebetween, and means for sweeping the extinguished cigarette and smokers' refuse from said portion of the platform into said tray comprising a plate fixed in the frame in parallel relation to said platform and having an end portion overlying and contacting the upper surface of said platform, a scraping flange carried by said end portion, and a manually engageable handle fixed to the platform for reciprocating the platform in the frame.

2,588,538
STABILIZERS IN PHOTOGRAPHIC EMULSIONS AND DEVELOPERS
John David Kendall and Harold Gordon Suggate, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company
No Drawing. Application August 3, 1949, Serial No. 108,418. In Great Britain August 6, 1948
15 Claims. (Cl. 95—7)

1. A process for reducing the tendency to the formation of fog in silver halide photographic emulsions which comprises developing the emulsions, in the presence of a small quantity of a compound of the general formula:

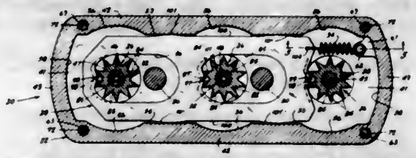


where R_1 is selected from the class consisting of the hydrogen atom and alkyl groups.

2,588,539
CALCULATOR
Elmer G. Kesling, Bloomfield, Mo., assignor of one-half to Gladys M. Kesling, Bloomfield, Mo.
Application July 29, 1950, Serial No. 176,680
18 Claims. (Cl. 235—74)

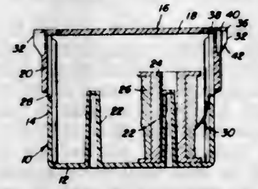
3. In a calculator, in combination, a plurality of selectively rotatable digit dials mounted in an inclined position so as to overlap one another, each dial having an integral gear portion, means

mounted between said dials and cooperative therewith to effect computation, detent means movable parallel to the longitudinal axis of the calculator, resilient means for urging said detent



means toward engagement with said gear portions, said detent means being movable through different distances against the action of said resilient means upon rotation of different dials.

2,588,540
THREAD BOX
Arnold A. Koistinen, Madison, S. Dak.
Application December 6, 1949, Serial No. 131,280
7 Claims. (Cl. 242—135)



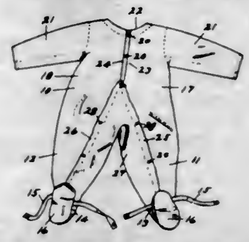
1. A sewing cabinet comprising a receptacle having side walls and a horizontal cover having a depending rim embracing the upper portion of said side walls, spool supporting arbors in said receptacle, a thread receiving opening in the walls of said receptacle adjacent each of said arbors, a horizontal knife on said cover extending into said rim for each of said openings.

2,588,541
CAN OPENING AND CONTENTS DISPENSING DEVICE
Harry E. Kuehn, Albany, N. Y.
Application October 12, 1948, Serial No. 54,108
1 Claim. (Cl. 222—83)



A can opening and contents dispensing device comprising a flat, elongated, metal element adapted to lie on top of a can; said element having laterally spaced depending hooks at one end thereof adapted to engage the underneath part of the rim of said can, and having an opening therein adjacent said end formed by striking a centrally disposed portion of said element downwardly; said struck down portion being pointed at its lower end adapting it to penetrate the top of said can; and the portion of said element between said hooks being depressed to form a shallow discharge trough extending from a point beyond said hooks to and merging with said struck down portion; a cover slidably cooperating with the upper surface and the lateral edges of said element adjacent said trough and overlying said opening and a portion of said trough; and means for locking said device to the top of said can comprising a flat, pointed blade rotatably mounted in said element and adapted to be pressed through the top of said can, and having a handle thereon for turning said blade after it has passed through said top.

2,588,542
COVERALL GARMENT
Althea W. Kunz, Minneapolis, Minn.
Application January 7, 1948, Serial No. 950
4 Claims. (Cl. 2—80)



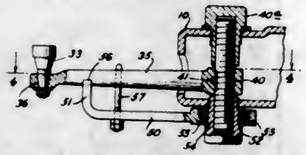
1. A garment comprising a pair of longitudinally extending portions, the one right and the other left, providing a body member, leg members and foot members, and a sole member for each foot member, said body member consisting of two longitudinally extending, body covering side pieces connected at the front of said garment and including first rear side portions, first means for detachably connecting said first rear side portions along a line extending substantially longitudinally of the body member at the rear of the garment, each of said leg members being connected with a longitudinally extending portion of said body member and each of said foot members being connected with a leg member at the corresponding side of the garment, each set of leg and foot members being connected at the front of the garment, the sets of leg and foot members being defined at the exterior sides of the rear of the garment by second rear side portions which are continuations of said first rear side portions, respectively, and said sets of leg and foot members being defined at their rearward, interior sides by a rear central flap comprising a rear closure element having interior edges thereof connected with the sets of leg and foot members, respectively, and with a lower part of the front of said body member, the rear central flap extending upwardly and exteriorly to be in proximate relation to said second rear side portions of the sets of leg and foot members and to lower parts of said first rear side portions when these are in connected relation and the rear central flap also is in closed condition, and second means for detachably connecting said rear central flap to said second rear side portions.

2,588,543
POLYVINYL ACETATE EMULSION
Walter G. Kunze and Raymond Bertram Evans, Catonsville, Md., assignors to Le Page's Inc., Gloucester, Mass., a corporation of Massachusetts
No Drawing. Application April 6, 1950, Serial No. 154,424
10 Claims. (Cl. 260—29.6)

1. A composition comprising a tacky aqueous emulsion of polyvinyl acetate and from 4 to 50%

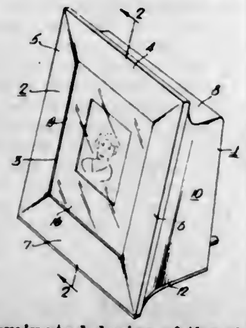
by weight of said acetate of a monomeric unsubstituted glycol which contains 4 to 8 carbon atoms.

2,588,544
BRACE SUPPORT FOR STEERING IDLER ARMS
Joseph Adam Langer, San Francisco, Calif., assignor to Alex S. Lathan, San Francisco, Calif.
Application April 20, 1949, Serial No. 88,633
3 Claims. (Cl. 280—95)



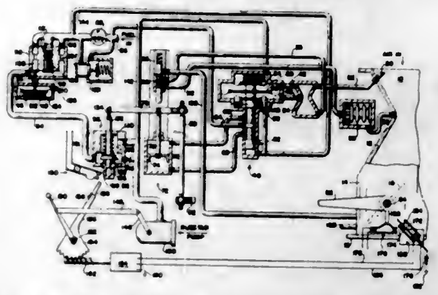
1. In a vehicle steering arm mechanism adapted to be connected to and to support the steering control rods of the vehicle the combination of upper and lower frame members; upper and lower nuts, respectively non-rotatably secured vertically in said frame members, said lower nut having a retaining means thereon; a vertically arranged idler pin threaded into said nuts and supported in the frame by said nuts so that it may rotate in them employing its threads as a bearing; an idler steering arm keyed to said idler pin and extending horizontally outwardly to be connected to said steering control rods; and a rigid brace below said idler arm, said brace being rigidly secured to said idler arm near its outboard end and at its inboard end having an anti-friction supporting bearing adapted to fit around said lower nut above said retaining means to allow free rotation of said arm and brace in relation to said lower nut.

2,588,545
DISPLAY DEVICE FOR ILLUMINATED TRANSPARENCIES
Jay Lawrence, Philadelphia, Pa.
Application December 19, 1949, Serial No. 133,840
8 Claims. (Cl. 40—152.2)



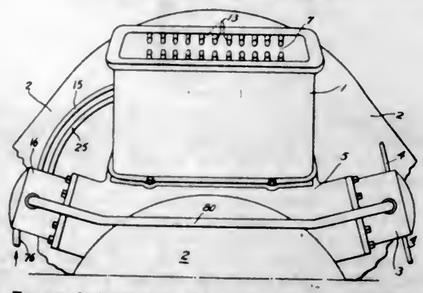
1. In an illuminated device of the character described, a casing having a front wall panel of transparent material, an opaque shield overlying and concealing the lower portion of the panel, the rear surface of said lower portion being roughened, masking means at the back of said panel covering the exposed area of the panel with exception of an intermediate portion, said masking means being excluded also from the said concealed lower portion of the panel, a transparency supported at the back of the panel within and covering the said unmasked intermediate portion, and means in said casing for illuminating the transparency and the said concealed lower portion of the panel.

2,588,546
CONTROL APPARATUS FOR INTERNAL-COMBUSTION ENGINES
Leighton Lee, II, Rocky Hill, Conn., assignor, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application August 8, 1946, Serial No. 689,221
30 Claims. (Cl. 123—119)



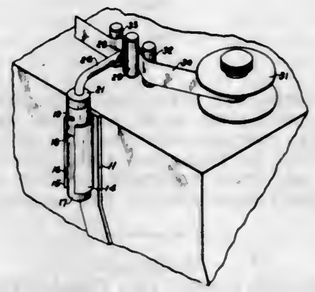
1. A fuel injection control system for an internal combustion engine, comprising means for injecting fuel into the cylinders of the engine, manually operable means for controlling the flow of fuel from said injection means to said engine, means for measuring the flow of fuel to said engine, throttle means for controlling the flow of combustion air to said engine, means for measuring the flow of combustion air to said engine, means including both said measuring means for controlling said throttle means to maintain a substantially constant fuel-to-air ratio, movable means for limiting the movement of said fuel flow controlling means in a fuel flow increasing direction, means for moving said limiting means, and means responsive to the position of said throttle means for operating said moving means and effective when said throttle means reaches wide open position to limit increasingly the flow of fuel to said engine, so as to prevent variation in said fuel-to-air ratio due to a fuel flow increasing movement of said manually operable means after said throttle means has reached its wide open position.

2,588,547
FUEL CONTROL SYSTEM
Leighton Lee, II, Rocky Hill, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application January 27, 1948, Serial No. 4,610
14 Claims. (Cl. 123—119)



1. In an internal combustion engine having an air supply passage, with means therein for producing an air pressure differential proportional to the rate of air flow thru said passage, and a fuel conduit for supplying fuel to said engine; a fuel control device, mounted on said engine as a single package unit separate from said air passage and including a portion of said fuel conduit, said device comprising a fixed fuel metering restriction for metering fuel flowing to said engine, and means for controlling the flow of fuel therethru in response to the said air pressure differential.

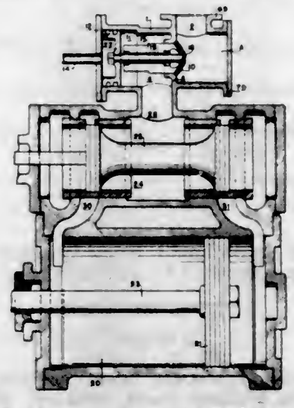
2,588,548
INK APPLICATOR FOR TYPEWRITER RIBBONS
Orland W. Markes, Detroit, Mich.
Application June 18, 1947, Serial No. 755,522
9 Claims. (Cl. 118—260)



1. An ink applicator of the class described, comprising: a reservoir adapted for the reception of ink and having one end closed and the other end open and provided with a lateral opening adjacent its open end; a stopper inserted into said open end for closing the same and adapted, upon being thrust inwardly a predetermined distance, for covering said lateral opening and, upon being drawn outwardly for uncovering said lateral opening while serving as a closure for the open end of said reservoir, said stopper having a passage formed therethrough; a tubular member projecting outwardly from the outer end of said stopper and communicating with said passage; and a wick extended through said tubular member and through said passage and projecting beyond the inner end of said stopper into said reservoir; and a tubular member projecting inwardly beyond the inner end of said stopper and embracing said wick and serving as a protection therefor against articles inserted through said lateral opening upon movement of said stopper to lateral opening uncovering position, the outside diameter of said wick being less than the inside diameter of said tubular member and said passage; and means mounted in the inner end of said second named tubular member around said wick for closing the space between said wick and said tubular member.

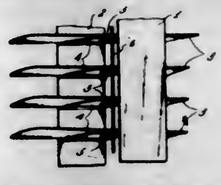
2,588,549
THROTTLE VALVE APPLICATION
John W. Marsh, Alexandria, Va.
Application October 19, 1945, Serial No. 623,260
4 Claims. (Cl. 121—143)

1. In combination, an operating cylinder adapted to produce power by application of fluid pressure, a distributing valve chamber mounted on said cylinder and containing means to distribute fluid under pressure to alternate ends of said cylinder, a throttle valve mounted on said distributing valve chamber, a source of fluid under pressure communicating with said throttle valve and holding said valve closed, said throttle valve being actuated by fluid tight means wherein fluid pressure in said distributing valve chamber



opposes fluid pressure controlled from a remote point.

2,588,550
VENETIAN BLIND LADDER
Thomas A. Martin and Joseph L. Hunter, Riverside, Calif., assignors to Hunter Douglas Corporation, Riverside, Calif., a corporation of Delaware
Application January 3, 1949, Serial No. 68,866
2 Claims. (Cl. 160—178)

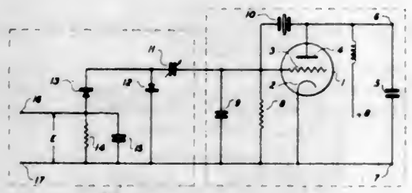


1. Material to be used for forming a plurality of cross bars of Venetian blind ladders comprising an elongated strip of flexible plastic material and a strip of substantially more rigid reinforcing material embedded in the flexible plastic material, said strip of reinforcing material having a width less than the width of the strip of flexible plastic material and being spaced from each side edge of the flexible plastic material to leave un-reinforced portions at the edges of said strip to form flexible joints with vertical tapes of a Venetian blind, the opposite surfaces of said strip at each edge flaring outwardly to provide an extended attachment surface at each side of the strip.

2,588,551
FREQUENCY MODULATION
Marcus A. McCoy, Los Angeles, Calif., assignor to United Geophysical Company, Inc., Pasadena, Calif., a corporation of California
Application February 21, 1949, Serial No. 77,513
15 Claims. (Cl. 332—29)

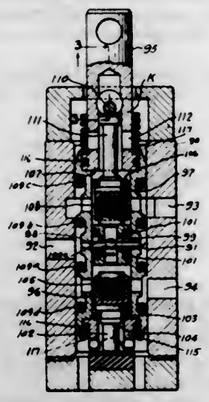
1. A frequency modulation system comprising an oscillator having a circuit containing a reactance, the variation of which varies the frequency of the oscillator, a modulating system connected across said reactance, said modulating system comprising a reactance element in series with two parallel paths each of which contains a non-linear impedance, and one of the paths containing a resistance across which a bias voltage is developed from the oscillator, a source of

modulating voltage across said resistance, the direction of forward conductivity of the two



non-linear impedances being opposed to each other with reference to said oscillator circuit.

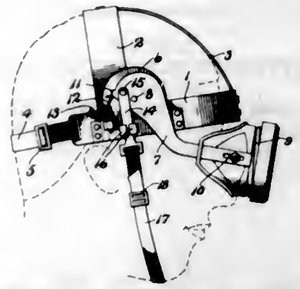
2,588,552
PILOT VALVE
Roy D. McLeod, Detroit, Mich., assignor of two-thirds to William Carls, Milford, Mich., and one-third to Sophia Louise Brussel and Detroit Trust Company, coexecutors of Fred H. Brussel, deceased
Application December 7, 1946, Serial No. 714,736
7 Claims. (Cl. 277—20)



1. A valve comprising a housing with two side outlet ports and a side inlet port between the outlet ports, all axially spaced but connecting to a bore, a slidable open center valve spool in said bore having external lands to separate each of said ports from the other, openings formed in said spool between said lands to connect all of said ports through said open center spool, means within the spool to define a pressure area adjacent the inlet port comprising valve seats axially on either side of the openings in the spool at the inlet port, and means in said spool at each end operable in response to axial movement of said spool to close respectively the valve seats and block the pressure area from one end while opening the pressure area to the other end thus directing pressure to the side outlet ports selectively and alternately.

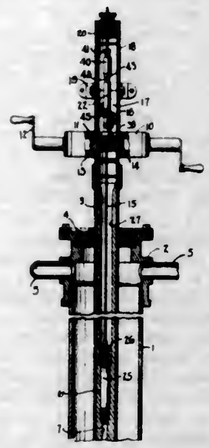
2,588,553
WELDER'S EYESHIELD
Arthur McWethy, Grand Rapids, Mich.
Application May 17, 1948, Serial No. 27,562
3 Claims. (Cl. 2—8)

1. A structure of the class described comprising, a substantially circular band adapted to encircle the head of a person, a supporting loop having its respective ends attached to said band at substantially diametrically opposite locations at the sides of the head and adapted to extend over the top of the head of the person, a pair of arms each pivotally mounted on opposite sides of said band at points close to the connections of the



loop to the band, a goggle unit extending between the front end portions of said arms and a strap adapted to extend under the chin of the person and having its respective ends connected with each of said arms rearwardly of their pivots and substantially in alignment with said supporting loop.

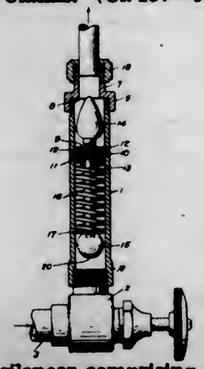
2,588,554
MEANS FOR REMOVING PARAFFIN FROM WELLS
Robert E. Meynig, La Porte, Tex.
Application October 25, 1946, Serial No. 705,641
1 Claim. (Cl. 166—18)



An apparatus for removing paraffin which has been deposited on the inside of a well tubing in the well for a distance adjacent the earth's surface because of the reduction in temperature and pressure, such apparatus including a closure device attached to the tubing above the head of the well and having means to confine the well pressure in the tubing while a wire line passes slidably therethrough, a tubing nipple connected to the upper side of the closure device, a wire line to be lowered and raised in the tubing and extending slidably through said closure and nipple, said closure, when closed, sealing around the wire line and confining the well pressure within the tubing, an upper seal member on said nipple spaced above said closure device to seal about said wire line to confine the well pressure in the tubing and nipple when the closure device

is open, a sinker bar weight connected to the lower end of said wire line and of such weight as to exert a pull due to gravity on said wire line so that said weight may be dropped sharply to run through and below the paraffin deposit, a scraper of a size to slide in the tubing and including laterally extending scraper wires, a removable radially slotted support ring initially connected to the bottom of said scraper and supporting it on said closure device and within said nipple, said scraper being initially slidable on said wire line, releasable means on said scraper to stationarily connect it to said wire line at any position above said weight including a collet chuck mechanism connected to the scraper and clampable on said wire line, said closure device being closable to confine the well pressure in said well tubing and said nipple then openable for removal of said support ring from said scraper and clamping of said collet chuck mechanism on said wire line, said nipple being again connectible to said closure device and said closure openable to permit reciprocation of said weight, wire line and scraper in said well tubing to remove the deposited paraffin from the tubing walls.

2,588,555
COMBINED VALVE AND WATER SILENCER
James F. Molloy, Oakland, Calif.
Application May 31, 1946, Serial No. 673,417
4 Claims. (Cl. 137—69)

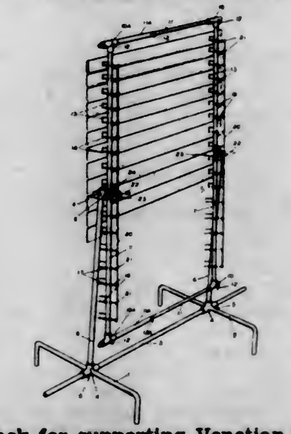


1. A water silencer comprising a tubular body having a reduced outlet formed with a valve seat; a valve stem guide fixed in said body and having longitudinal passages formed therethrough; a valve in proximity to said outlet for cooperation with said valve seat; a stem fixed at one end to said valve, projecting through said guide and adjustable therein; a head on the other end of said stem; and a resilient helical velocity retarder interposed between said head and guide in slidable approximate contact with said stem and said tubular body.

2,588,556
MANUFACTURE OF GREASE COMPOSITIONS
Robert J. Moore, Oakland, and Walfrid Saarni, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corperation of Delaware
Application May 16, 1949, Serial No. 93,588
13 Claims. (Cl. 252—42)
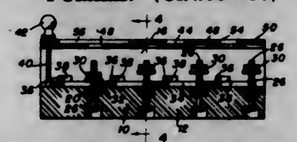
1. The method of making grease compositions from soaps of the group consisting of alkali metal soaps, alkaline earth metal soaps and mixtures thereof comprising forming a slurry of the soap and lubricating oil, said soap being present in an amount sufficient to form a grease, heating said slurry to a temperature of 180–250° C. until a homogeneous non-crystalline mixture has formed and thereafter cooling said grease to its gelation phase and heat-treating said grease below 172° C. but above 100° C. to produce a stable homogeneous grease.

2,588,557
RACK FOR HOLDING VENETIAN BLIND SLATS
Fred L. Morris and Arthur W. Peterson, Portland, Oreg.
Application January 16, 1950, Serial No. 138,746
2 Claims. (Cl. 118—503)



2. A rack for supporting Venetian blind slats, comprising a frame having parallel side bars, spaced apart substantially horizontal pairs of pins respectively extending from each of said side bars for insertion through the respective rope slots in the slats, one of each pair of pins being resilient and fixed to the bars to engage one edge of each of the slots, the other of the pins of each pair being adjustably mounted to releasably engage the opposite edge of each of the slots to hold the slats rigid, a link pivotally connected to all of said adjustably mounted pins on each side bar, a lever pivoted to said frame and to said link, and means for releasably holding said lever in selected position and thereby hold said pins under tension against the opposite edges of the slots.

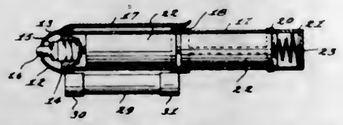
2,588,558
CONNECTOR BLOCK
Albert T. Mosimann, Jr., Houston, Tex.
Application August 3, 1948, Serial No. 42,233
4 Claims. (Cl. 200—50)



2. A connector block comprising a base of non-conducting material having an elongated channel opening through one side thereof, opposed connectors recessed into the base on opposite sides of the channel, binding posts at the inner ends of the connectors and extending into the channel, a plate of non-conducting material mounted on the base to slide longitudinally within the channel, transversely extending contact bars carried by the plate for selective contact with the binding posts of opposed connectors, nuts on the binding posts to engage the contact bars, a cover plate fixed to the base in closing relation to the channel, said cover plate having access openings therethrough through which the nuts or the binding posts are accessible, a top slide member on the cover plate movable longi-

tudinally thereof, said slide member having access openings extending therethrough which when the said slide member is in one position register with the access openings in the cover plate to give access to the nuts on the binding posts, said connectors having clamp screws for locking conductors thereto and guard fingers on the slide member for overlying one group of clamp screws and preventing access thereto when the slide plate is in access opening closing position.

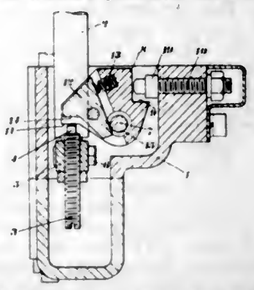
2,588,559
COMBINATION FLASHLIGHT AND CONTINUITY FUSE TESTER
Simon P. Needham, Kansas City, Kans.
Application June 20, 1950, Serial No. 169,234
1 Claim. (Cl. 175—183)



A combination flashlight and fuse tester comprising an elongated open ended housing fabricated of an insulating material, at least one dry cell positioned longitudinally of and within said housing and having a first contact terminal on one end and a second contact terminal on the other end thereof, a conductive lamp socket positioned longitudinally of and partially within one end of said housing, a lamp mounted in said socket and engageable with said first contact terminal, a conductive cap bridging said one end of said housing and detachably secured thereto, said cap upon securement to said housing engaging and securing said socket to said housing, there being an aperture in said cap for the extension therethrough of a lamp when mounted in said socket, a flexible conductive arm extending longitudinally of said housing and having one end secured to said cap and having the other end spaced from said housing, a first conductive band encircling said housing and positioned in the space between said other end of said conductive arm and said housing, a second band encircling and fixed to said housing adjacent the other end thereof and spaced from said first band, a conductive strip extending between and connecting said first and second bands together, and conductive means on said other end of said housing and engageable with said second contact terminal of said dry cell, whereby upon electrically bridging the gap between said cap and either of said bands or the other end of said flexible arm and said first band by a fuse to be tested an electrical circuit is energized and closed.

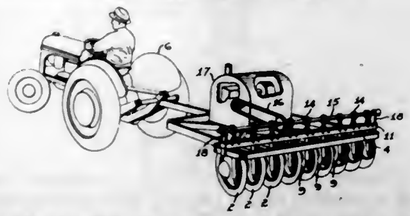
2,588,560
STOP
Wilfrid Edward Walter Nicolls, Pinner, England, assignor to C. A. V. Limited, London, England
Application November 28, 1947, Serial No. 788,717
In Great Britain September 25, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 25, 1966
5 Claims. (Cl. 74—526)

3. A device for limiting motion in one direction of a member which is slidable in two opposite directions, comprising the combination with said member, of a stop composed of a pair of parts one of which is pivoted on the other, a post which is arranged transversely to said member and along which said stop is movable between two service positions wherein said parts respectively serve as abutments for said member, said post being formed with a circumferential groove adjacent to one of said service positions of said stop, a spring acting on the pivotal stop part in the direction for causing it to engage said groove when said stop occupies the appropriate service position, manually operable means for moving said stop to the latter service position in which said stop



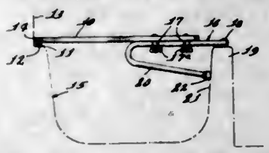
is retainable by the engagement of said pivotal stop with said groove, said pivotal stop part being disengageable from said groove by said member, and a second spring arranged to oppose movement of said stop by said manually operable means and to return said stop to its initial position after disengagement of said pivotal stop part from said groove.

2,588,561
APPARATUS FOR ELECTRICALLY TREATING THE SOIL
Fred W. Opp, Costa Mesa, and Walter H. Opp, Altadena, Calif.
Application August 29, 1949, Serial No. 113,003
3 Claims. (Cl. 47—1.3)



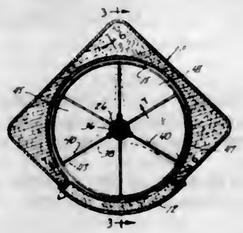
3. An apparatus for treating soil in situ which comprises a frame, a shaft mounting, a plurality of cultivator blades supported by said frame, a rotating shaft supported by said frame and carrying cams, plungers movable into contact with said cultivator blades intermittently operated by said cams, means for driving said cams, and means for generating an electric potential between said plungers and cultivator blades.

2,588,562
BATHTUB SEAT
Warren J. L. Parish, Chicago, Ill.
Application September 7, 1949, Serial No. 114,295
2 Claims. (Cl. 4—185)



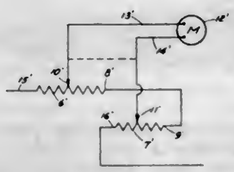
1. A bathtub seat of the character described, comprising: a body supporting seat having at least a major portion thereof substantially horizontal and adapted to be placed transverse a bathtub with one end thereof resting upon the inner bathtub ledge adjacent a wall; a bracing member attached to the other end of said seat, said member having a U-shaped portion underlying said seat with the open end of the U facing the seat for supporting the seat on the outer bathtub ledge, and bracing legs extending downwardly and backwardly from the free ends of said U to bear against the inside of the bathtub at points located at least several inches below the ledge and spaced apart substantially the same distance as the width of said U for preventing movement of the seat transversely away from said inner ledge.

2,588,563
ROTARY SHELF REFRIGERATOR
Richard M. Paul, Millard, Nebr.
Application February 25, 1949, Serial No. 78,449
5 Claims. (Cl. 62—89)



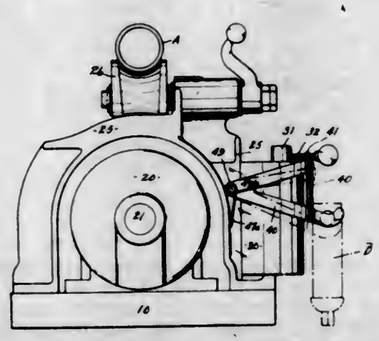
1. A refrigerator cabinet comprising a housing having an external contour which has a vertical right angled corner at the intermediate portion of its rear wall and a vertical substantially quarter round front wall, whereby the housing may be fitted into a corner of a room, a vertical shaft secured within said housing, a sleeve member rotatably mounted on said shaft, a plurality of vertically spaced circular shelves secured to said sleeve member, said housing having an inner cylindrical shell extending coaxially adjacent the peripheral portions of said shelves, a pair of vertically spaced horizontal evaporator coils in the top portion of said shell, an additional circular shelf rotatably mounted on said shaft between said evaporator coils, and a vertically hinged door provided in said front wall and extending adjacent the shelves.

2,588,564
THERMOELECTRICALLY BALANCED METER NETWORK
Gerard S. Pawlicki, Urbana, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application May 26, 1947, Serial No. 750,467
5 Claims. (Cl. 171—95)



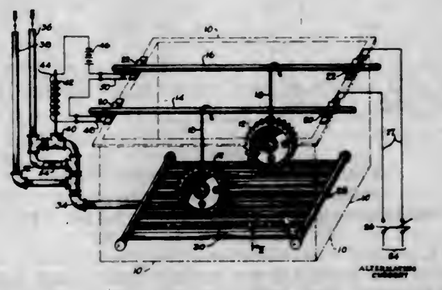
1. An electrical network of the character described comprising a circuit including a pair of impedances connected in back-to-back relation, a pair of movable contacts, one of said contacts being carried by each of the impedances, a voltage responsive instrument connected to said contacts, said last connection providing thermoelectrically equivalent points, and means for bridging said circuit across a source of electrical energy.

2,588,565
SWITCH LOCK FOR POWER-DRIVEN TOOLS
Robert B. Pealer, Garrettsville, Ohio, assignor to Beaver Pipe Tools, Inc., Warren, Ohio, a corporation of Ohio
Application November 13, 1948, Serial No. 59,795
11 Claims. (Cl. 200—169)



1. The combination of an electric switch having an enclosing housing and a switch lever projecting from the housing and swingable in a horizontal plane, a pivotally mounted U-shaped member extending about the switch housing and having means to coact with the switch lever, a spring tending to swing the U-shaped member upwardly on its pivot into such coacting position, said U-shaped member having also means for supporting a weight sufficient to lower it into non-active position.

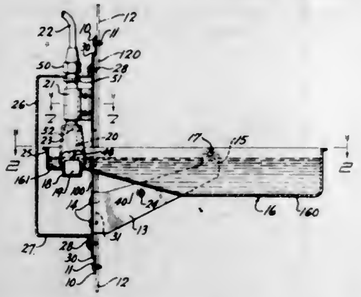
2,588,566
ELECTROLYTIC PROCESS FOR STRIPPING COPPER
Robert L. Peaslee, Packanack Lake, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application February 4, 1948, Serial No. 6,159
2 Claims. (Cl. 204—146)



1. The process of removing copper from the surfaces of a pair of metallic bodies: said process comprising the steps of immersing said bodies in a solution consisting of ammonium carbonate in water having 0.5 to 15 ounces of copper dissolved

therein per gallon of solution; and passing an alternating current through said solution with said bodies comprising opposite electrodes for said current, said alternating current comprising conventional symmetrical alternating current having a frequency of 60 cycles per second.

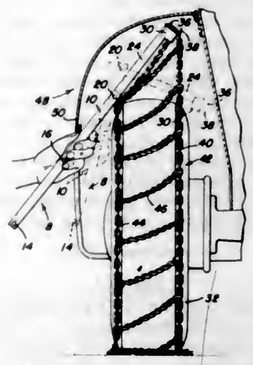
2,588,567
HUMIDIFIER
Milton Perlman, Detroit, Mich.
Application March 21, 1950, Serial No. 150,880
3 Claims. (Cl. 261—119)



1. A humidifying device for imparting moisture to air by evaporation comprising a cradle constituting a fulcrum point, a reservoir pan pivotally mounted intermediate its ends on said cradle so as to constitute a lever in itself and so as to position said pan with a relatively large water containing capacity on one side of its pivot point on said cradle and a relatively small water containing capacity on the other side of its pivot point on said cradle so that said pan is leverwise biased when containing water, a water valve positioned adjacent the small water capacity end of said pan adapted to introduce water under pressure into said pan; said valve comprising a seal on the small water capacity end of said pan and a nozzle or seat separately fixed adjacent the small water capacity end of said pan; said valve being operated to open and close by pivoting said pan on said cradle; said pan being so positioned on said cradle so that when a desired predetermined level of water exists in said pan, the weight of the water in the large water capacity end of said pan so overbalances the weight of the water in the small water capacity end of said pan and the water pressure of said nozzle to pivot said pan on said cradle to close said valve, and so that when less than a desired level of water exists in said pan, the weight of the water in the large water capacity end of the pan does not so overbalance the weight of the water in the small water capacity end of said pan and the water pressure of said nozzle so that water is introduced into said pan.

2,588,568
TIRE CHAIN MOUNTING TOOL
Milo S. Peterson, Leadville, Colo.
Application January 6, 1950, Serial No. 137,209
2 Claims. (Cl. 81—15.8)

1. A tire chain tool of the class shown and described comprising a handle embodying a pair of opposed duplicate resilient limbs riveted together at corresponding inward ends and having longitudinally spaced bolts joining the intermediate and remaining outward end portions, a reach arm hingedly mounted between said limbs on the bolt joining said remaining end portions, a longitudinally bowed member secured intermediate its ends to the outer end of said reach



arm and extending at right angles thereto, and applicator lugs carried by said member.

2,588,569
SELF-SUPPORTING LUMINESCENT FILMS
Robert G. Picard, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 30, 1948, Serial No. 5,443
2 Claims. (Cl. 18—59)



1. A method of making a self-supporting, luminescent screen comprising settling a suspension of luminescent substance in a solution of a resinous bonding material against a polished surface of a body and evaporating said solution to dryness whereby a film of said luminescent substance and said bonding material is formed having a specular undersurface, separating said film from the polished surface of said body, and depositing on the specular undersurface of said film an electron permeable, light opaque layer of metal.

2,588,570
BLADE CONSTRUCTION FOR AIRCRAFT SUSTAINING ROTORS
Harold F. Pitcairn, Bryn Athyn, Pa., assignor to Autogiro Company of America, Philadelphia, Pa., a corporation of Delaware
Application October 31, 1946, Serial No. 706,996
5 Claims. (Cl. 170—159)



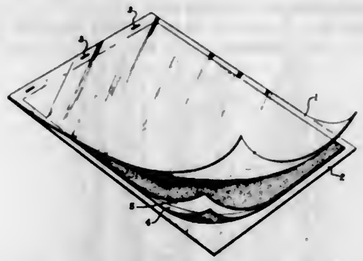
1. For an aircraft sustaining rotor, an elongated blade having a nose portion comprising layers of woven glass fabric impregnated with an adhesive material, the said nose portion being adapted to carry substantially all of the centrifugal load imposed upon the whole blade.

2,588,571
METHOD FOR FORMING HOLLOW ARTICLES
Sydney Porter, Toronto, Ontario, Canada, assignor, by direct and mesne assignments, to Elastine Process & Development Ltd., Toronto, Ontario, Canada, a company of Ontario
Application October 24, 1950, Serial No. 191,740
7 Claims. (Cl. 18—47.5)



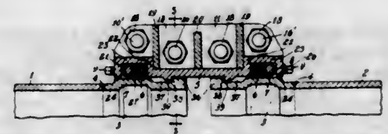
1. The method of wholly forming a hollow article in a hollow metal mould having an opening therein which comprises in combination: introducing into the mould through the opening thereof a liquid heat-curable composition which is elastic in the cured state, to substantially fill the mould with said composition to a depth corresponding to the depth of the article to be formed therewithin, heating the composition within said mould by applying heat to the exterior surfaces of the mould to effect heat transfer through the latter to partially cure and set a layer of the composition next the inner surfaces of the mould, heating preselected areas of the mould for a longer period of time than other areas thereof to cause a build-up of thickness of the partially cured layer formed therein for reinforcing said layer in regions corresponding to the preselected areas of the mould, removing from the mould excess composition which is still in the liquid state to leave therewithin a coating of partially cured composition reinforced at the selected areas to said predetermined thickness, thereafter applying heat to the mould to completely cure said coating to form an article therewithin, and removing the completely cured article through the opening of the mould.

2,588,572
METHOD OF MAKING MECHANICAL NEGATIVES FOR PHOTOCOPIES
Roy Victor Potteiger, Rochester, N. Y.
Application September 23, 1947, Serial No. 775,610
4 Claims. (Cl. 41—46)



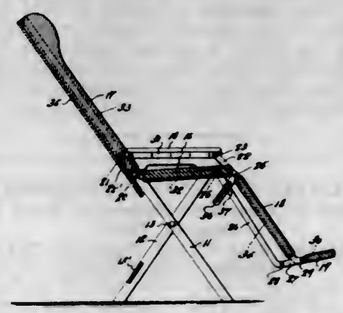
1. A method for producing matrices from which printing masters may be made comprising, inserting sheets having transferable deposit material thereon between superposed plies of flexible light penetrable material with the deposit material contacting the interfaces of the superposed plies, impressing copy upon the outer face of the top ply of the manifolded pile whereby congruent deposits of the transferable material will be made upon the interfaces of the superposed plies, and maintaining the superposed plies in registry during and after the impression.

2,588,573
PIPE COUPLING
Roger E. Risley and George D. Kish, Bradford, Pa., assignors to Dresser Industries, Inc., Cleveland, Ohio, a corporation of Pennsylvania
Application June 10, 1949, Serial No. 98,298
12 Claims. (Cl. 285—129)



1. In a pipe coupling for coupling the ends of two pipe sections, a flexible tubular member split at one place transversely of its circumference, and provided at its adjacent split ends with opposed outwardly projecting flange portions, said tubular member on its inner surface and said pipe ends on their outer surface being provided with cooperating recesses and projections for inter-locking said tubular member and said pipe ends, means for drawing said end portions toward one another to draw said tubular member into close conformity and locking engagement with the pipe end surfaces, and gasket sealing means disposed between said flange portions for sealing the transverse split in said tubular member when the flange portions are drawn up.

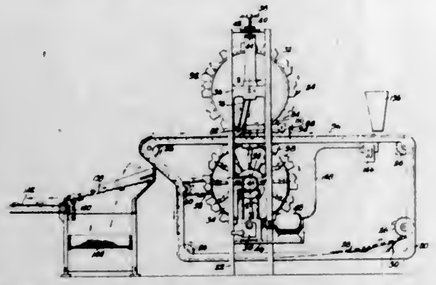
2,588,574
CHAIR CONVERTIBLE TO A TABLE
Donato R. Rizzolo, Bloomfield, N. J.
Application November 23, 1945, Serial No. 630,313
3 Claims. (Cl. 155—43)



1. A furniture piece adapted to be optionally converted to chair or table form comprising a leg structure, laterally spaced stationary side members supported by said leg structure, body sections including a back section and a seat section, each said section being of width less than the spaced separation of said side members, suspension link means pivotally connected with and extending between the forward ends of said side members and the forward end of said seat section, a table top panel of a width exceeding the spaced separation of said side members, said panel being affixed to the rear face of the back section, joint means extending rearwardly from the side members by which the back section is pivotally connected therewith at points upwardly spaced from the lower end of the latter, and additional joint means for pivotally interconnecting the rearward end of the seat section with the lower end of the back section in spaced apart relation, said latter joint means comprising joint portions projecting rearwardly and upwardly from the seat section and pivotally joined to forwardly projecting joint portions extending from the lower end of the

back section, whereby said back section may be swung forward and downwardly into horizontal superposed relation to the simultaneously lifted seat section with the table top panel supported by and across said side members to convert the furniture piece to table form.

2,588,575
FRUIT HALVING AND PITTING DEVICE
Brook H. Rollins, Jr., Baltimore, Md.
Application March 25, 1947, Serial No. 737,190
5 Claims. (Cl. 146—28)



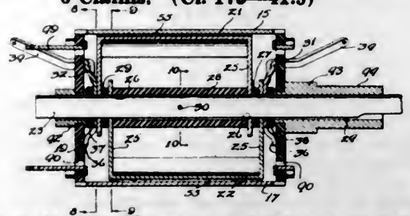
1. Fruit handling apparatus comprising a conveyor providing a fruit support containing pockets, said pockets being discontinuous at least in part to define an elongated gap extending axially in the direction of movement of said conveyor, rotors disposed on opposite sides of said support, a series of opposed notched crossing and overlapping cutters radially disposed on each of said rotors and mounted to form pairs of cutters for penetration of fruit supported by said pockets from opposite surfaces of said support, one cutter of each pair mounted for radial movement on its rotor, a spring outwardly radially biasing said movable cutter, and means for driving said conveyor and introducing certain of said cutters into said pockets through said gap.

2,588,576
NECKTIE-HOLDING ATTACHMENT
Nathan W. Roop and Howard R. Babb, Jr., Columbus, Ohio
Application May 8, 1951, Serial No. 225,122
4 Claims. (Cl. 2—145)



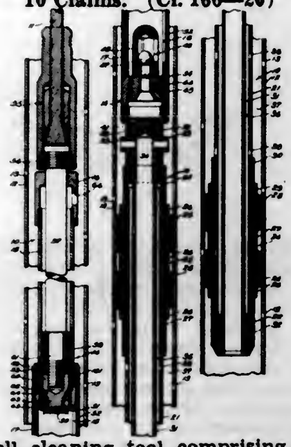
1. A tie holder comprising a flexible fabric body adapted to be secured to the under surface of the outer length of a necktie, said body being formed with a plurality of transversely extending parallel slits, the latter defining between them a plurality of closely disposed cross straps, adjacent slits being so disposed as to receive the under length of the necktie, each of said straps being formed centrally with an opening for the reception of a fastening button present on an associated shirt, whereby to hold the attachment in secured relation with the shirt.

2,588,577
DIRECTION SELECTION CONDENSER
John J. Root, New York, N. Y.
Application October 22, 1949, Serial No. 123,021
6 Claims. (Cl. 175—41.5)



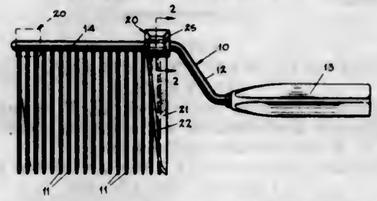
2. A rotary condenser comprising a plurality of arcuate stator plates edge-to-edge disposed in a circle and insulated from each other, a pair of insulating disks at the respective ends of said stator plates, said disks being formed with openings therethrough, integral snap lugs formed on each stator plate and received into said disk openings so as to effect a physical connection between said stator plates and disks for maintaining said stator plates in their circular disposition, a pair of rotor plates mounted within said stator plates for condenser action with selectable ones of said stator plates, a shaft extending through said disks and upon which said rotor plates are mounted, and a pair of spring lugs mounted on such shaft, each spring lug having a spring portion thereof disposed between one of said rotor plates and one of said disks so as to bear against said rotor plate and disk respectively with a spring force, each of said spring lugs further including a projection extending through the disk against which it bears, said projection serving as an electrical terminal for the rotor plate against which the spring lug bears.

2,588,578
VACUUM WELL CLEANER
James J. Santiago, Los Angeles, Calif., assignor to Grant Oil Tool Company, Los Angeles, Calif., a corporation of California
Application June 28, 1946, Serial No. 680,119
10 Claims. (Cl. 166—20)



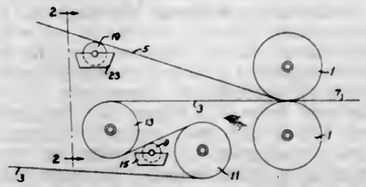
1. A well cleaning tool comprising a tubular body forming a charge receiving chamber, a piston movable upwardly within said body to enlarge said chamber from a reduced volume to an extended full charge receiving volume, and a disc initially engaged by the piston and closing the bottom of said chamber, said disc being suddenly rupturable by the well fluid pressure after upward movement of the piston in the chamber to admit well fluid thereto, and charge retaining means in the body.

2,588,579
CAKE BREAKER AND CUTTER
Cale J. Schneider, Toledo, Ohio
Application December 4, 1950, Serial No. 199,051
2 Claims. (Cl. 30—115)



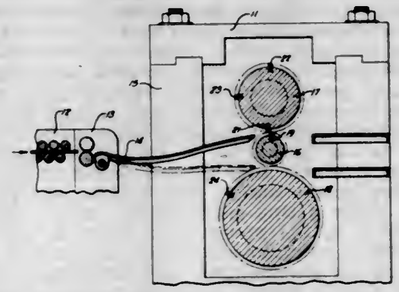
1. A cutter for bodies such as food and the like comprising the combination of a manipulatable body penetrating member and a cutter element on and movable relative to the member; the member having an elongated arm and a plurality of parallel and spaced straight prong parts normal to the arm and in a common plane adapted, when the member is manipulated, to endwise penetrate a body to be partitioned along a succession of parallel lines in a plane of proposed partition; the cutter element having a flat blade part and bearing means at one end of the part, the bearing means having a surface in slidable contact with said member arm to support the blade part for movement in sliding contact with each of a succession of said prong parts and through a path across the spaces between said prong parts to thereby successively sever portions of the body adjacent and between the prong parts.

2,588,580
APPARATUS AND METHOD FOR MANUFACTURE OF COMPOSITE WEB MATERIAL
Thomas M. Scruggs, Richmond Heights, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application August 7, 1950, Serial No. 178,143
8 Claims. (Cl. 154—1.6)



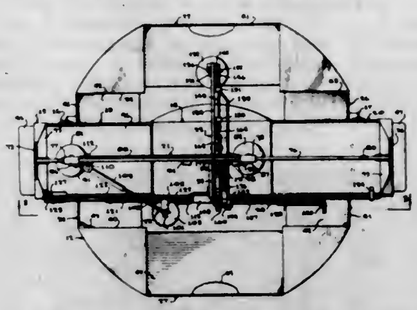
6. Apparatus for making composite web material consisting of a web and a strip narrower than the web extending the length thereof and adhesively secured substantially over its entire area to the web comprising a combining guide at which the web and the strip may be combined, an adhesive-applying roller somewhat narrower than the strip positioned to apply a single stripe of adhesive somewhat narrower than the strip to the surface of the web facing the strip as the web travels over the roller to the guide, the web and strip becoming combined at the guide with the width of said stripe of adhesive wholly within the width of the strip, and a pair of adhesive-applying rollers positioned to apply a narrow stripe of adhesive to each side marginal portion of the strip facing the web as the strip travels over these rollers to the guide.

2,588,581
METHOD OF AND APPARATUS FOR SHEARING STRIP MATERIAL
Maurice P. Sieger, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 12, 1949, Serial No. 76,126
8 Claims. (164—66)



1. In a flying shear, a rotary carrier to which is secured a cutting element, a second rotary carrier to which is secured a plurality of sets of cutting elements, the elements of each of said sets being so spaced circularly around said carrier to define a cutting cycle different from that of any other set, the ratio of the radii of the circles defined by said cutting elements being expressible as a whole number greater than one, said carriers being angularly adjustable with respect to each other whereby a pre-selected set of cutting elements of said second carrier may be brought into cooperative cutting relationship with said first mentioned carrier on each complete revolution of said second rotary carrier.
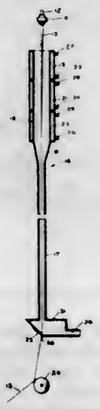
2,588,582
CARD SHUFFLING AND DEALING DEVICE
Clifford P. Sivertson, Washington, D. C.
Application December 1, 1950, Serial No. 198,683
4 Claims. (Cl. 273—149)



1. A card shuffling and dealing device comprising a support, a table rotatably mounted on said support, power operated means carried by said support and connected to said table for rotating the latter, card receiving pockets carried by said table and angularly spaced apart therearound, a structure carried by said support above said

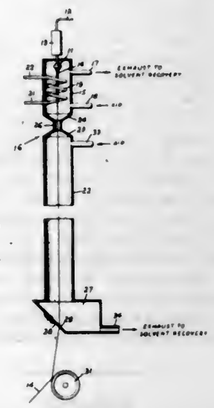
table and providing aligned card receiving compartments including a center compartment and end compartments disposed one at each end of said center compartment, said end compartments being arranged to receive parts of a deck of cards through the outer ends thereof, means in said compartments resiliently supporting cards therein for convenient removal therefrom, double acting card picking means mounted on said structure and effective upon reciprocating movement thereof to move cards alternately and one at a time from said end compartments into said center compartment, means drivingly connecting said table to said double acting card picking means for imparting reciprocating movement to the latter upon rotation of said table, single acting card picking means mounted on said structure and effective upon reciprocation thereof to move cards one at a time from said center compartment into said pockets, means connected to said single acting card picking means and actuated by said pockets to impart reciprocating movement to said single acting card picking means in timed relationship to the rotation of said pockets, means connected to said means drivingly connecting said table to said double acting card picking means and to said means connected to said single acting card picking means and responsive to the presence of cards in said end pockets to maintain said double acting card picking means in operation and said single acting card picking means out of operation as long as one or more cards remain in either of said end pockets and to discontinue operation of said double acting card picking means and initiate operation of said single acting card picking means as soon as all cards have been removed from said end pockets, and adjustable means connected to the means connected to said single acting card picking means and responsive to operation of the latter to discontinue operation of said single acting card picking means when a predetermined number of cards has been moved thereby from said center compartment into each of said pockets.

2,588,583
PROCESS FOR SPINNING
Frederick T. Small, Cumberland, Robert T. Armstrong, Mount Savage, and John R. Shoup, Cresaptown, Md., assignors to Celanese Corporation of America, a corporation of Delaware
Application December 18, 1948, Serial No. 66,018
8 Claims. (Cl. 18—54)



1. In a dry-spinning process for the production of artificial filaments from a spinning dope containing a filament-forming material and a volatile solvent, the steps which comprise forming filaments from said spinning dope, passing the solvent containing filaments through a spinning cabinet, and passing a stream of an evaporative medium through said spinning cabinet in the direction of travel of the filaments to evaporate the solvent therefrom, the speed of the filaments through said spinning cabinet being above about 800 meters per minute and the velocity of the air stream through said spinning cabinet being lower than the speed of the filaments but above about 280 meters per minute whereby no excessive stresses are imposed upon the filaments leaving said spinning cabinet as the result of the high speed of the filaments through said spinning cabinet.

2,588,584
SPINNING ARTIFICIAL FILAMENTARY MATERIALS
Frederick T. Small, New York, N. Y., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application November 12, 1949, Serial No. 126,745
2 Claims. (Cl. 18—54)



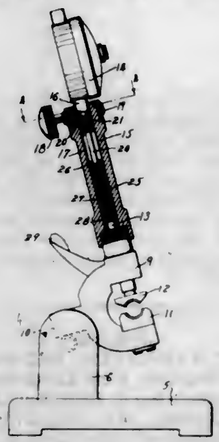
1. In a dry-spinning process for the preparation of artificial filamentary material from a spinning dope containing a filament-forming material and a volatile solvent, the steps which comprise forming filamentary material from said spinning dope, first passing the solvent-containing filamentary material through a filament-forming zone, passing a stream of evaporative medium through the filament-forming zone in a direction opposite to the direction of travel of the filamentary material to evaporate a portion of the solvent from the filamentary material, next passing the filamentary material through a drying zone, and passing a stream of evaporative medium at a high velocity through the drying zone in the direction of travel of the filamentary material to evaporate more of the solvent from the filamentary material, the spinning speed being above about 800 meters per minute so that the tension on the filamentary material leaving the drying zone would be above about 0.2 gram per denier in the absence of the stream of evaporative medium, and the velocity of the stream of evaporative medium through the drying zone being sufficiently high as to reduce the tension on the filamentary material leaving the drying zone to below about 0.2 gram per denier.

2,588,585
FRANGIBLE FRAME ALL-PURPOSE FARM IMPLEMENT
Albert H. Stockmar, Villa Rica, Ga.
Application September 5, 1946, Serial No. 694,956
3 Claims. (Cl. 97—185)



1. An agricultural machine comprising in combination, a frame, a plurality of standards adapted to carry earth-working implements at their lower ends, said standards being pivotally mounted in said frame, a member extending transversely of said frame in position to abut at least two of said standards, and a frangible connection between said member and said frame.

2,588,586
SCREW THREAD COMPARATOR
Bror W. Swanson, Elmwood, Conn., assignor, by mesne assignments, to Anthony F. Kasprow, Felix A. Kasprow, Joseph W. Kasprow, Stephen G. Kasprow, all of New Britain, and Meyer E. Bailey, New Haven, Conn.
Application June 8, 1949, Serial No. 97,855
3 Claims. (Cl. 33—147)



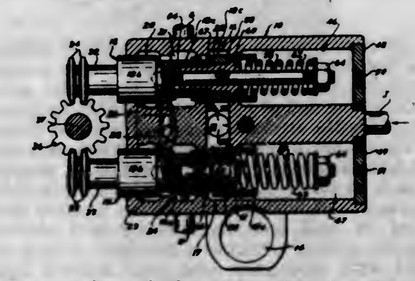
1. In a screw thread comparator, a supporting member having a pair of parallel surfaces spaced from each other, a first jaw positioned adjacent one of said surfaces and fixedly supported thereon, a shaft arranged longitudinally of and mounted in said supporting member for movement toward and away from said first jaw and having one end extending through and beyond the other of said surfaces and having the other end projecting from said supporting member, a second jaw arranged in coacting relation with respect to said first jaw and carried by said one end of said shaft, a hollow standard surrounding the other projecting end of said shaft and having one end secured to said supporting member, a hollow sleeve slidably mounted within said standard and having one end engageable with the other projecting end of said shaft, a stem positioned within said standard and having one end slidably connected to the other end of said sleeve, an indicator having operating mechanism including a longitudinally extending movable element arranged longitudinally of and fixedly secured on the other end of said standard and having the movable element secured to the other end of said stem, resilient means disposed within said sleeve and operatively connected to said sleeve for urging said sleeve into engagement with said other end of said shaft, and hand actuable means exteriorly of said standard and operatively connected to said shaft for moving said sleeve toward said stem to thereby move said second jaw away from said first jaw.

2,588,587
FIRE EXTINGUISHER
Ernest J. Sweetland, Piedmont, Calif.; Nellie Sweetland, Ernest J. Sweetland, Jr., and American Trust Company executors of said Ernest J. Sweetland, deceased
Application October 18, 1948, Serial No. 55,210
6 Claims. (Cl. 169—26)



1. A fire extinguisher comprising an elongated frangible tubular container filled with a fire-extinguishing material; pivotal supports adjacent each end of said container to be fastened to a wall or ceiling to permit unrestricted oscillating movements of the end portions of said container when the intermediate portion of the container has been fractured; means to fracture said container comprising a base-structure; means to attach said base-structure to said tubular container; a hammer carried by said base-structure; spring means to actuate the hammer to break said container at a point intermediate of said supports; means to hold said hammer in cocked position against the force of the spring-actuating mechanism comprising a fusible link adapted to melt at a predetermined temperature to release said hammer to fracture the container and distribute the contents thereof by the oscillatory motions of the end sections of said container upon said pivotal supports.
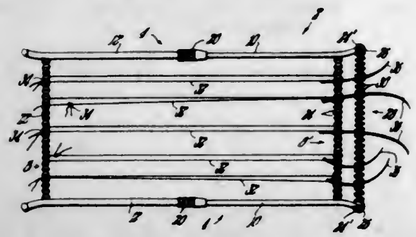
2,588,588
PUMP AND MOTOR HYDRAULIC SYSTEM AND CONTROL VALVE THEREFOR
William E. Swenson, St. Paul, and Henry A. Halgren, Minneapolis, Minn., assignors, by mesne assignments, to Minneapolis-Moline Company, Hopkins, Minn., a corporation of Minnesota
Application December 21, 1946, Serial No. 717,790
12 Claims. (Cl. 60—52)



1. In a valve of the character described for controlling fluid flow from a pressure source to a

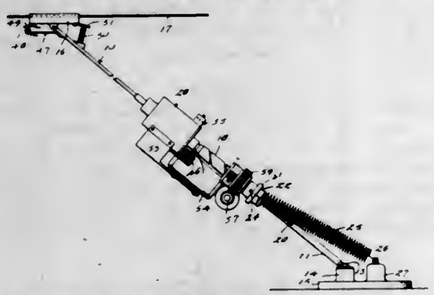
hydraulic jack motor, a valve housing having a cylinder and a chamber at one end thereof, a plunger slidable in the cylinder and operative upon movement therein toward the chamber to control fluid flow to the jack motor, and another valve arranged in slidable association with the plunger and operative in response to a rise in pressure in the fluid controlled by said plunger above a predetermined point to admit the fluid to the chamber and cause the fluid to urge the plunger endwise away from the chamber ends of the cylinder.

2,588,589
SURGEON'S PRETHREADED NEEDLE HOLDER
Joseph Tauber, Springfield, Mass.
Application December 14, 1950, Serial No. 200,846
4 Claims. (Cl. 223—109)



1. A suture holder comprising in combination, elongated side members and transverse struts having spaced grooves and being secured to said side members at their opposite ends holding said side members in transversely spaced relation, and a needle holder extending between said side members at one end thereof.

2,588,590
TROLLEY POLE
Vernon B. Terhune, Atlanta, Ga., assignor to Electric Trolley Pole Company, Atlanta, Ga., a partnership
Application November 9, 1949, Serial No. 126,323
6 Claims. (Cl. 191—86)



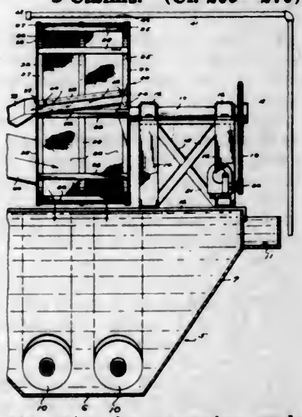
1. In combination a trolley structure comprising a pole member, a trolley wire shoe pivotally carried by the upper end of said pole, a base for the lower end of said pole, a helically grooved sleeve slidable on said pole, a crosshead fixed to said sleeve, springs connected between said crosshead and said base adapted to yieldably maintain said pole in an upright position while said shoe is in engagement with a trolley wire, locking means carried by said pole for locking said sleeve in an upper spring tensioning position, means connected with said shoe and said locking means for effecting release of said sleeve when said shoe is disengaged from the trolley wire, and means carried by said pole engaging said sleeve for moving the latter toward said shoe to spring tensioning position, said last mentioned means comprising a motor, a worm operable by said motor, a worm gear rotatable by said worm, an annulus mounted for rotation with said gear and a pin connecting said annulus to said groove in said sleeve for linear movement for said sleeve.

2,588,591
MIXING DEVICE
Ernest H. Thompson, Winnetka, Ill., assignor to Automatic Canteen Company of America, Chicago, Ill., a corporation of Delaware
Application February 2, 1946, Serial No. 645,053
8 Claims. (Cl. 259—23)



1. A mixing device comprising, in combination, a receptacle adapted to contain a quantity of a comminuted solid material, a plunger mounted for reciprocation into and out of said receptacle, means for forcing a liquid through said plunger, means in said plunger for spraying a plurality of streams of said liquid at different levels into said solid material for admixture therewith, and means for rotating said plunger during the spraying of said liquid.

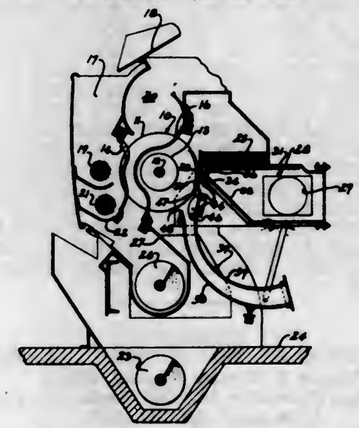
2,588,592
ROTARY HYDRAULIC SEPARATOR
Grant W. Trundle, Fort Lauderdale, Fla.
Application September 6, 1949, Serial No. 114,186
3 Claims. (Cl. 209—270)



1. A separator for removing undesirable particles from a fine grade of sand which com-

prises, a closed cylindrical drum having a foraminous circumferential cover, baffles carried interiorly of said drum, a shaft connected with one closed end of said drum for rotatably supporting the drum in a substantially vertical plane, a non-rotatable closure panel for the other end of said drum, an input trough rigidly supporting said non-rotatable panel and adapted for conveying materials to be separated into the drum in the presence of water, a collector pan rigidly mounted upon said non-rotatable panel and disposed within said drum, a discharge chute extending from said non-rotatable panel and adapted to receive material for discharge from said pan, the rotation of said drum continuously agitating said materials whereby the fine sand is discharged through said foraminous circumferential cover and the heavier particles are collected by said baffles and deposited upon said pan for discharge through said chute, and a fluid conduit associated with said drum for flushing the collected particles from said pan to said discharge chute.

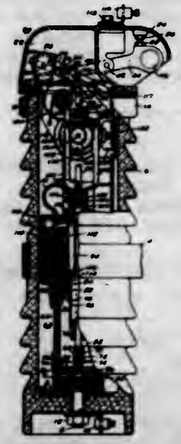
2,588,593
PNEUMATIC DOFFING MECHANISM FOR COTTON GINS AND THE LIKE
Arvel L. Vandergriff, Columbus, Ga., assignor to Lummus Cotton Gin Company, a corporation of Georgia
Application July 3, 1948, Serial No. 36,935
8 Claims. (Cl. 19—59)



1. In a cotton gin embodying a rotating saw cylinder, a rear wall extending substantially the length of the saw cylinder and having an upper portion disposed closely to the periphery thereof, a plurality of spacers mounted on the inner surface of the rear wall and disposed between the individual saws of the saw cylinder, a front wall having its upper end terminating below the saws, said walls cooperating to define a lint duct open along its upper end for receiving lint removed from the saws, and means to discharge air under pressure downwardly between said spacers and onto the saws to remove lint therefrom.

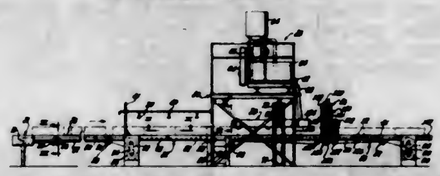
2,588,594
CIRCUIT INTERRUPTER
James M. Wallace, Braddock, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 9, 1945, Serial No. 603,941
17 Claims. (Cl. 200—89)

4. In an automatic reclosing circuit interrupter having separable contacts, means responsive to a predetermined circuit condition for separating said contacts, means responsive to a circuit interrupting operation for automatically closing said contacts, a single time-delay means connected to a part of said interrupter at least during part of each circuit opening and closing operation for controlling circuit opening and closing operations of said interrupter, the part to which said time delay means is connected at least during a circuit interrupting operation being movable a predetermined amount before causing separation of said contacts, integrating



means adapted to be advanced a predetermined amount by said time-delay means during a cycle of operation of said interrupter comprising a circuit opening and reclosing operation, means responsive to advancement of said integrating means a predetermined greater amount by a predetermined number of closely successive cycles of operation of said interrupter to prevent reclosure of said contacts, said integrating means being biased to return to a normal position, and said time-delay means being operable to delay return movement of said integrating means.

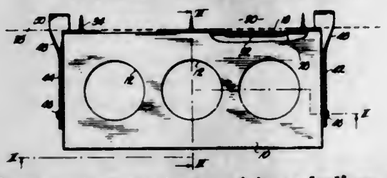
2,588,595
APPARATUS FOR FACING BUILDING BLOCKS
Warren A. Warner, Los Angeles, Calif., assignor to Art-Block Development Co., Los Angeles, Calif., a corporation of California
Application September 23, 1950, Serial No. 186,413
11 Claims. (Cl. 41—1)



1. In an apparatus for continuous application of a colored cementitious coating to selected surface areas of advancing rows of the aligned building blocks, the combination of: means for advancing a plurality of rows of aligned blocks in a horizontal plane including independently driven rear and front conveyor means, said rear conveyor means being driven at a greater rate of speed than the front conveyor means for maintaining aligned advancing blocks in end-to-end contact; means including a fixed longitudinally

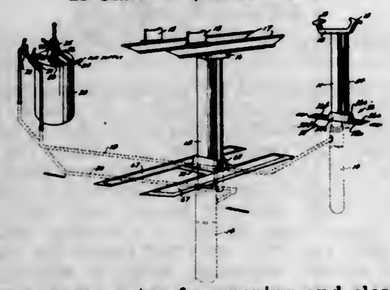
extending guide surface and a cooperable laterally adjustable spaced parallel guide face provided along the front conveyor means for maintaining said advancing blocks in side-to-side contact; a frame structure; means for spreading a slurry of cementitious composition on a selected surface area of said blocks, said spreading means being carried by said structure above said advancing blocks and comprising elongated parallel members provided with spaced means antifrictionally engaging a plurality of said advancing blocks; an enclosure at the front end of the spreading means for receiving and holding a supply of said slurry in contact with advancing blocks; said enclosure including an adjustable gate for forming a selected thickness of coating on said blocks while advancing beneath said enclosure.

2,588,596
FLOWER POT SUPPORTING SHELF
John A. Weber, Shawnee, Kans.
Application March 7, 1949, Serial No. 80,065
1 Claim. (Cl. 248—311)



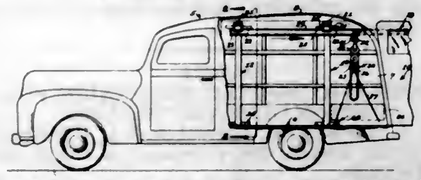
A flower pot support comprising a hollow, open-bottom body having a flat top plate provided with a flower pot-receiving opening, and a continuous, downturned, peripheral flange integral with said plate; a pair of opposed, elongated, horizontal slots formed in the flange; a pair of spaced, vertical slots formed in the flange between the horizontal slots and extending upwardly from the lowermost end of the flange; a wall bracket on the outer face of said flange and extending through the vertical slots in looped relationship to a portion of the flange between the vertical slots; a wall brace for each horizontal slot respectively; and means on each brace respectively extending through the corresponding horizontal slot for releasably securing the braces to the flange, said means each being adapted on release for sliding movement in the horizontal slot thereof whereby to permit leveling of said plate.

2,588,597
AUTOMATIC DOOR CONTROLLING MECHANISM
Warren Webster and Kenneth E. Berk, Dayton, Ohio, assignors to The Joyce-Cridland Company, Dayton, Ohio, a corporation of Ohio
Application April 3, 1947, Serial No. 739,132
13 Claims. (Cl. 254—89)



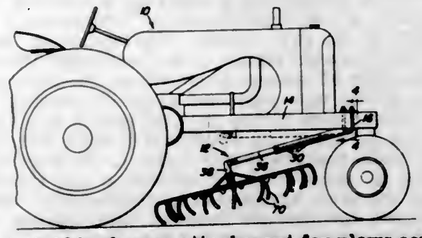
1. In an apparatus for opening and closing a pit for a lifting mechanism, said pit being adapted to receive the load supporting structure of said lifting mechanism when the latter is in its lowermost position, a movable closure for said pit comprising a plurality of doors movable about separate axes, a shaft mounted in the lower portion of said pit, arms secured to said shaft, means connecting said arms with the respective doors, and means controlled by the movement of said load supporting structure in a single direction to move said shaft in a direction to move said doors to open positions, to retain said doors in said open positions until said load supporting structure has moved past the same, and to thereafter move said shaft in door closing direction.

2,588,598
TRUCK HOIST
Harry A. Willis, Jr., Loudonville, N. Y.
Application May 19, 1950, Serial No. 162,938
2 Claims. (Cl. 212—74)



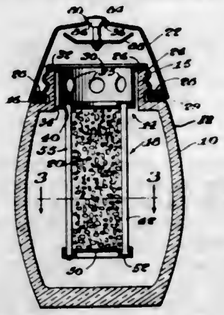
1. The combination with a vehicle body having a floor and vertical side panels rising along opposite sides of the floor, of a hoist comprising uprights at each side of said body and spaced along the inner sides of the panels, means securing the lower ends of the uprights to the floor, cross members extending between and supportably secured to the upper ends of the uprights, said cross members being secured at their ends to said side panels, a horizontal slide guide secured to each of said cross members at points between said uprights, a track having a portion thereof supportably and slidably engaged with said slide guides whereby said track can be moved longitudinally relative to the vehicle body, and a block and tackle mounted on said track.

2,588,599
ROTARY RAKE AND STUBBLE CLEANER
Daniel F. Winter, Ceylon, Minn.
Application December 28, 1949, Serial No. 135,440
5 Claims. (Cl. 56—377)



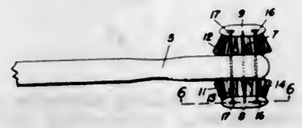
1. A stubble cleaner attachment for plows comprising a member having a crank arm, a rotary rake comprising a hub journaled on said arm, a flat rim, spokes securing said hub to said rim, spring teeth extending radially from said rim, means detachably securing said teeth to said rim and means for supporting and mounting said member and crank arm in predetermined position with respect to the ground whereby the rake will revolve in a plane inclined with respect to the ground and about an axis which is inclined with respect to the vertical.

2,588,600
SALT SHAKER WITH DESICCANT HOLDER SUSPENDED BETWEEN CAP AND CONTAINER
James H. Young, Mount Lebanon, Pa.
Application November 10, 1948, Serial No. 59,216
8 Claims. (Cl. 222—190)



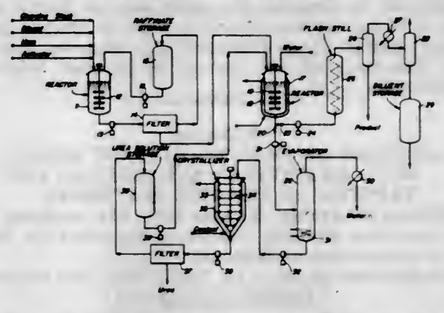
1. A salt shaker adapted to maintain salt in a freely flowing condition comprising a container open at one end, a desiccant holder suspended within the body of the container, a cap member closing the open upper end of the container in air tight relation, said cap member having a portion engageable with said desiccant holder for retaining it in operative position when the cap is secured upon the container, said desiccant holder comprising a short open top cylindrical member having a flange at its upper end and provided with relatively large openings in the lateral portion thereof for the passage of salt from within the container into said cylindrical member, and an elongated dessicant holding portion depending from said cylindrical member and adapted to extend well down into the body of the container, said elongated portion having the lateral walls thereof provided with a large number of air passages for permitting circulation of the air from the container into the desiccant holder, said cap member being provided with a dispensing orifice and a valve normally closing the same when the container is in an upright position and being capable of automatically opening when the container is inverted.

2,588,601
SPRING PRESSED TOOTHBRUSH
Alfred E. Zavagno, San Francisco, Calif.
Application February 6, 1950, Serial No. 142,589
2 Claims. (Cl. 15—167)



1. A tooth brush comprising a handle having bristles secured in one end thereof, a pair of opposed bristle holders pivotally mounted on opposite sides of said handle at a point adjacent said first-mentioned bristles and at a point beyond the extremity of said first-mentioned bristles, parallel wires extending through said handle certain of said wires being slidable in said handle, said slidable wires turned in a direction parallel to said first mentioned bristles, the ends positioned in slots formed in said bristle holders.

2,588,602
FRACTIONATION OF ORGANIC COMPOUNDS BY ADDUCT FORMATION
Chester E. Adams, Highland, Ind., and Robert A. Dinerstein, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 27, 1947, Serial No. 794,140
9 Claims. (Cl. 260—676)



1. In a process for fractionating a mixture of at least two urea-adduct-forming straight-chain organic compounds having different molecular weights, said compounds being substantially completely of a single class with respect to the presence of functional substituents therein, the steps which comprise contacting said mixture with a urea solvent and a quantity of urea sufficient to react with substantially all of the urea-adduct-forming compound of highest molecular weight in said mixture but insufficient to react with all of said urea-adduct-forming compounds, whereby an adduct is formed containing urea and said highest-molecular-weight urea-adduct-forming compound in purified form, and separating and withdrawing said adduct from the reaction mixture.

2,588,603
STRAPLESS BRASSIÈRE
Margaret K. Anderson, Beverly Hills, Calif., assignor to Helene Brassiere Company, Inc., Glendale, Calif., a corporation of California
Application April 23, 1949, Serial No. 89,333
1 Claim. (Cl. 2—42)



In a brassière including a pair of virtually conical breast-receiving cups of compliant material, the provision of: a resilient wire element consisting of a substantially horizontal central section, each end section of the element being curved into a substantially semicircular form, and an upstanding, intermediate section between each of said curved end sections and the central section; each of the curved end sections including a portion, adjacent the associated intermediate section, directed inwardly toward the other curved end section, and an end portion directed away from the other curved end section; each of the curved end sections being preformed and prestressed, one of the curved end sections lying

in the plane of the central section and the other out of the plane thereof and in partial overlapping relation when in normal position off the body of a wearer; each of the curved sections of the wire element being attached to a breast-receiving cup; and a rearwardly extending underarm portion including elastic, stretchable means, connected to the outward margin of each cup, said rearwardly extending portions being adapted to encircle the body and be joined and to hold the breast-receiving cups in spaced position against the prestressed wire element, whereby the body of the wearer is exposed between said cups.

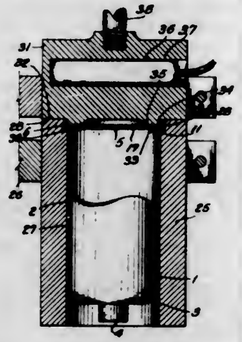
2,588,604

METHOD OF SEALING HOLLOW BODIES, SUCH AS BOTTLES AND SIMILAR CONTAINERS OF PLASTIC MATERIAL

William K. Archer, Kansas City, Mo., assignor to Injection Molding Company, Kansas City, Mo., a corporation of Missouri

Application October 15, 1949, Serial No. 121,603

5 Claims. (Cl. 18—59)



5. The method of permanently securing a thermoplastic closure to an open end wall portion of a thermoplastic container, there being an annular stop shoulder inwardly of the open end of the container, the closure and end wall portion being of substantially complementary size and shape with the closure having a continuous substantially right angularly disposed flange on its outer face substantially at the margin thereof and adapted to form with the end wall portion an outwardly opening recess therebetween and the flange and end wall having continuous outwardly projecting lips, which comprises inserting the closure into the open end wall portion of the container to seat on said stop shoulder with the flange facing outwardly and terminating in substantially the same plane as the end wall portion of the container whereby said flange is surrounded by the end wall portion thus forming the outwardly opening recess therebetween and presenting the continuous outwardly projecting lips in side-to-side relation, supporting said end wall portion about the entire perimeter thereof to maintain the outer shape of said end wall portion, applying heat and pressure directly to and coextensive with said lips to fuse said lips and flow together the fused material, supporting the innerside of said flange, confining the fused material for flow into said recess and from spreading beyond the outer and inner perimeters of said end wall portion and said flange respectively, removing the heat and pressure and allowing the fused material to set to form an integral seal between the flange of the closure and the end wall portion of the container.

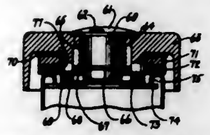
2,588,605

CONTAINER SAFETY LOCK

John W. Armbruster, East Rockaway, N. Y.

Original application August 8, 1942, Serial No. 454,118, now Patent No. 2,437,674, dated March 16, 1948. Divided and this application May 27, 1947, Serial No. 750,795

9 Claims. (Cl. 70—170)



8. A cover for a container having an opening and a latching flange, a catch plate on said cover to engage said flange, means for mounting said plate loosely relative to said cover so that the cover can rotate relative to the plate, a lock bolt for connecting the plate to the cover so that the plate and cover are normally fixed together for disconnection of the plate from said flange when the cover is rotated, a barrel lock slidable in said cover, an enlarged circular valve head on said lock, and a spring for holding said lock down with said head covering a valve opening in said cover, said lock bolt being adapted to be operated by said lock for disengaging said bolt from said catch plate, whereby the cover will be locked on the container.

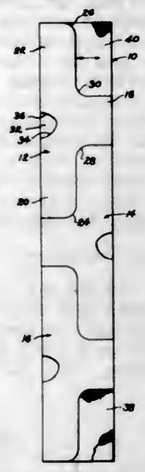
2,588,606

SHIRT AND METHOD OF MAKING SAME

William W. Artzt, New Rochelle, N. Y.

Application December 26, 1950, Serial No. 202,752

15 Claims. (Cl. 2—113)



1. The method of making garments of the class described comprising superposing two layers of fabric material joined together along at least one edge to provide a fold line extending along said one edge; cutting both layers of the material into a blank substantially T-shaped with the cap of the T-shaped blank extending along the fold line; cutting an arcuate section out of the superimposed layers at a point along the fold line substantially midway of the ends of the T-shaped blank but displaced toward one end of the blank whereby the major portion of the cutout lies to one side of the transverse centerline of the blank; opening the superimposed layers of the folded blank; folding the opened blank along the said transverse line, whereby the said major portion of the cutout becomes the front of the neck opening and the minor portion thereof becomes the back of the neck opening, and securing the side edges of the blank to each other.

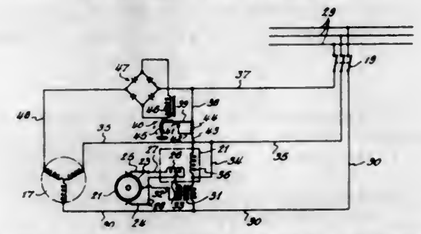
2,588,607

STARTING ARRANGEMENT FOR GYROSCOPIC INSTRUMENTS

Clare E. Barkalow, Huntington, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application June 28, 1949, Serial No. 101,770

8 Claims. (Cl. 74—5.47)



1. In a directional gyro having a ring mounted with freedom about a vertical axis, a rotor frame mounted on said ring with freedom about a horizontal axis and a gyroscopic rotor mounted in said frame; a starting arrangement including an electric motor for spinning said rotor of the character that draws a decreasing amount of electric current as the rotor accelerates from a standstill condition to reach normal operating speed, means including motive means operable to exert a torque about the axis of the ring, and means sensitive to the current drawn by the spinning motor operable to render said torque exerting means ineffective while the rotor is accelerating.

2,588,608

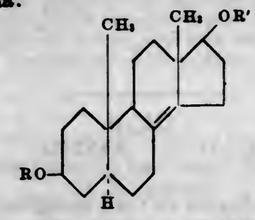
$\Delta^{5,(14)}$-ANDROSTENDIOLS AND PROCESS

Seymour Bernstein and Karl J. Sax, Pearl River, N. Y., and Dominic Giancola, Jersey City, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 14, 1950, Serial No. 168,164

9 Claims. (Cl. 260—397.5)

1. A compound of the group having the general formula:



in which R and R' are members of the group consisting of hydrogen, lower alkyl carbonyl and benzoyl radicals.

2,588,609

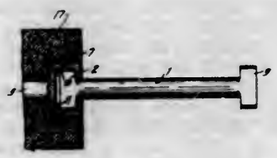
ANCHOR FOR ADJACENT SLABS OF CONCRETE PAVEMENTS

Louis G. Blackhall, Albany, N. Y.

Application May 13, 1947, Serial No. 747,635

2 Claims. (Cl. 94—3)

1. An anchor for preventing differential heaving and lateral separation of two adjacent slabs of a concrete pavement; said anchor comprising a first, elongated, metal bar adapted to be embedded in the first laid slab, and a second, elongated, metal bar adapted to be embedded in the second laid slab; said first bar having a cylindrical socket in one end provided with an entrance to said socket in the end of said bar adapted to be exposed in that end of said first laid slab adjacent the other of said slabs when laid, and having circumferentially-spaced portions of said bar extending inwardly partially across said entrance; said second bar having laterally projecting portions at one end thereof disposed in said socket and of a size and shape adapting



them to be withdrawn from said socket when positioned between said inwardly extending portions of said first bar; and ramps in the bottom of said socket wedgingly cooperating with the portions of said second bar within said socket upon relative rotation of said bars and holding said portions of said second bar within said socket in contact with said inwardly extending portions of said first bar and said bars in axial alignment; whereby, after said first slab is laid with said first bar embedded therein, said second bar may be rigidly connected to said first bar, and the concrete forming said second slab then poured about it.

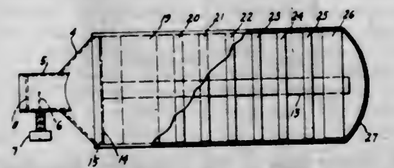
2,588,610

DIRECTIONAL ANTENNA SYSTEM

Wilson P. Boothroyd and Harry F. Hartley, Jr., Philadelphia, Pa., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application June 7, 1946, Serial No. 674,951

11 Claims. (Cl. 250—33.63)



7. An ultrahigh-frequency antenna system comprising a horn radiator terminating in an open mouth and having a principal axis of wave propagation extending centrally through said mouth in a direction normal to the plane thereof, and a plurality of dielectric plates each having parallel plane surfaces, the lateral dimensions and area of said plates being substantially equal to the lateral dimensions and area of said mouth, said plates being mutually spaced along said axis and disposed outside of and spaced from said horn radiator in positions opposite the

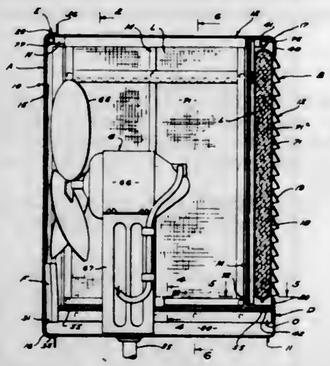
mouth thereof, the plane of each of said plates being perpendicular to said axis, said plates being arranged coaxially with respect to said radiator, and the spacing of at least certain of said plates being substantially an integral multiple of a quarter wavelength at the operating frequency.

2,588,611
COSMETIC CONTAINER
Frederick M. Breen, White Plains, N. Y.
Application March 26, 1948, Serial No. 17,241
1 Claim. (Cl. 132—82)



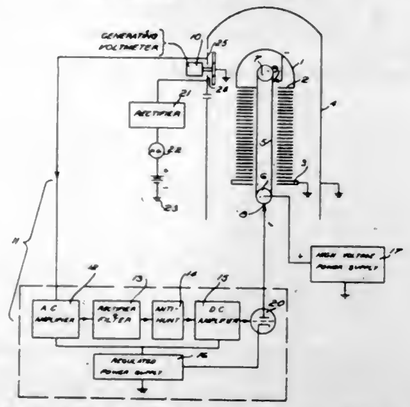
A circular container adapted to hold paste or powder, a threaded flange projecting above the side of the container, an annular shelf outside of the flange, a cover for said container, said cover having an opening, threaded walls bounding the opening against which the flange is adapted to lie, a ceiling against which the top of the flange is adapted to strike, and a transverse swelling on the top adapted to be grasped by the fingers to turn the cover on the threads, said transverse swelling merging at one end thereof with the upper surface of the cover and being spaced above the upper surface of the cover at the other end thereof to facilitate manual access between the cover and said one end of said transverse swelling.

2,588,612
EVAPORATIVE COOLER
Richard N. Brookins, South Gate, Calif., assignor to Essick Manufacturing Company, Los Angeles, Calif., a corporation of California
Application February 10, 1948, Serial No. 7,371
9 Claims. (Cl. 261—97)



1. A cooler case of the character described including, two separable unitary sections each generally L-shaped, one section being a main section including a lower horizontally disposed part forming the entire bottom of the case and further including a front permanently joined to the said part and projecting up therefrom, and the other section being a back section including a top and a back, and releasable retainers holding the lower edge portion of the back joined with the rear edge portion of the bottom and holding the upper edge portion of the front joined with the forward edge portion of the top.

2,588,613
SYSTEM OR APPARATUS FOR STABILIZING THE VOLTAGE OF ELECTROSTATIC GENERATORS
Ernest A. Burrill, Natick, and William V. Smith, Auburndale, Mass., assignors to High Voltage Engineering Corporation, Cambridge, Mass., a corporation of Massachusetts
Application October 18, 1949, Serial No. 122,038
15 Claims. (Cl. 322—2)

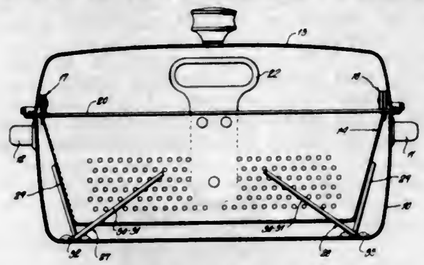


1. Apparatus for stabilizing the voltage of an electrostatic belt-type generator comprising in combination, an electrostatic belt-type generator having charge spraying points; a generating voltmeter electrically associated with the high voltage terminal of said generator; and wherein an alternating current is induced that is proportional to the generator voltage; a stabilizer circuit electrically associated with the spraying points of the said generator the said generating voltmeter having a series of sections whereof at least one may be isolated in order that a small portion of the current of said generating voltmeter may be thereby isolated for use as a signal to the said stabilized circuit, which circuit is electrically connected to such isolated section of said generating voltmeter; and means in said stabilizer circuit for employing the current from the said isolated section of said generating voltmeter as a signal to the said stabilizer circuit, so that by reason of the fluctuation of such signal as compared with a standardized voltage signal from a regulated power supply, regulation is effected by the amount of charging current from a high voltage power supply, that is sprayed over the belt of the said generator, thereby causing the terminal voltage to be stabilized.

2,588,614
DRAINING BASKET
Amneris Capra and Ottavio Capra, Jamaica, N. Y.
Application August 10, 1946, Serial No. 689,637
3 Claims. (Cl. 99—410)

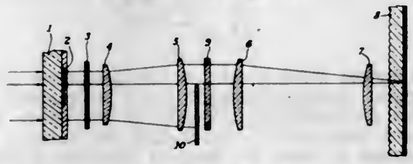
1. A cooking utensil comprising an outer container, a draining basket within said container, said basket having flanges at its upper edge to rest upon the upper edge of the container, and a pair of support members having an upright, substantially U-shaped portion, a pair of base portions connected to said U-shaped portion and resting on the bottom of the outer container, and a pair of sidewise extensions enclosing an angle of less than 90° with said base portions, said extensions being adapted to rest on the bottom of the container whereby said U-shaped

portions serve as an upright support, and said latter portions being displaceable outward and



beyond the perimeter of the basket when said basket is lowered into the outer container.

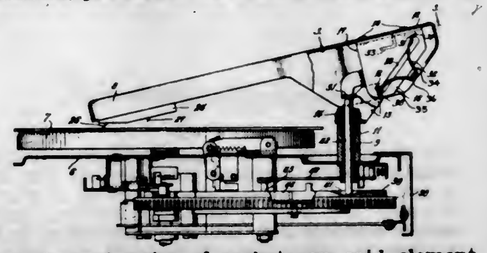
2,588,615
PRINTING ONTO LENTICULAR FILM
John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 1, 1946, Serial No. 673,831
1 Claim. (Cl. 95—2)



The method of reproducing a colored object or image on lenticular film by forming in the lenticular film color separation records having the same apparent gammas as the gammas which the separation images represented by those records have in the colored object or image, which comprises forming a group of color separation records of the original object or image, said records having gammas differing from each other, successively exposing to light controlled by said color separation records a silver halide lenticular film emulsion sensitive to light of wave length shorter than red and containing soluble yellow and magenta dyes and giving lower gamma when exposed with blue light than when exposed with green light, exposing said color separation records with green light to increase the gamma of the record in the lenticular film emulsion when the corresponding color separation record has a lower gamma than the original object or image, and exposing said color separation records with blue light to decrease the gamma of the record in the lenticular film emulsion when the corresponding color separation record has a higher gamma than the original object or image, each exposure being limited to the portions of the fields of the lenticulations corresponding to the color separation record controlling the light, and developing the exposed lenticular film.

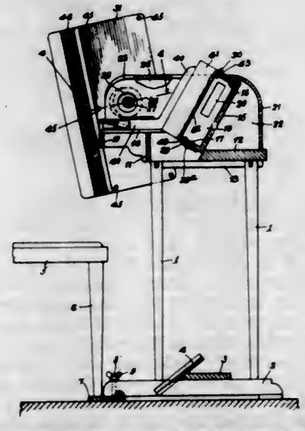
2,588,616
ADJUSTABLE PHONOGRAPH PICKUP ARM
Reuben C. Carlson, Chicago, Ill.
Application October 29, 1948, Serial No. 57,369
10 Claims. (Cl. 274—23)

4. Pickup apparatus for a record player comprising a pickup arm member, mechanism including a fixed bearing and a carrier member in association with said bearing to provide for rotation of the arm member about a vertical axis, a pair of needles extending from said arm member to different planes with respect to the lower side thereof, each of said needles being adapted to severally engage fine and coarse sound groove records by varying the elevation of the support for said arm member by means including an intermediate element rigidly coupled to one of said members, pintles on the other of said members,



spaced-apart pairs of sockets on said element adapted to be alternately moved into engagement with said pintles to provide alternate horizontal axes for said pickup arm, one of said pair of sockets being at a higher level than the other pair of sockets to alternately position said pickup arm so that both of said needles is adapted to severally engage a record.

2,588,617
MUSICAL INSTRUMENT APPARATUS
Victor Dal Degan, Chicago, Ill.
Application September 7, 1945, Serial No. 614,874
8 Claims. (Cl. 84—376)

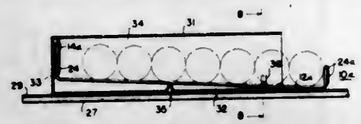


1. In combination with a standard accordion comprising a keyboard section and a separable bellows section, means for supporting the two sections separately in playing relation, comprising members adapted to support the bellows section and to provide a path for air from the bellows section, and a member to support the keyboard section and including conduit means providing a path for air moving from the bellows section to the keyboard section.

2,588,618
EGG STORAGE AND DISPENSING DEVICE
Vincent P. Di Renzo, Landisville, N. J., assignor of one-half to Simon Di Renzo and one-half to John J. McDevitt, both of Philadelphia, Pa.
Application March 24, 1948, Serial No. 16,841
2 Claims. (Cl. 312—49)

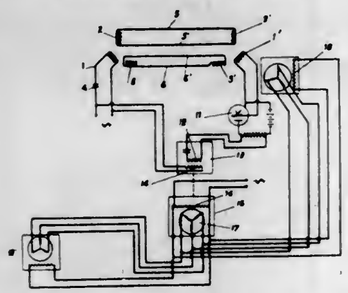
1. An egg storage and dispensing device for refrigerators comprising a box adapted to rest

upon a refrigerator shelf, a tray in said box having a rear end wall portion, a front end portion at which the eggs are accessible and a bottom portion for supporting the eggs and supporting means for tiltably mounting said tray in said box comprising fulcrum members in a lower portion of the box and with which the bottom por-



tion of said tray is in engagement, said fulcrum members being disposed intermediate the ends of the tray and offset from the center of gravity whereby the tray is normally inclined downwardly towards the front for dispensing and is capable of being inclined downwardly towards the rear for filling.

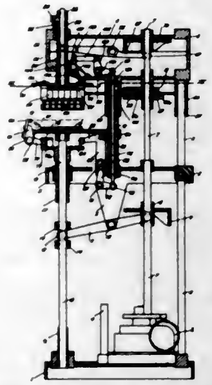
2,588,619
ELECTROMAGNETIC COMPASS
Pierre André Drouin, Paris, France
Application October 5, 1948, Serial No. 52,855
In France October 13, 1947
8 Claims. (Cl. 33—222)



8. An electromagnetic compass comprising magnetizable means including a coil for developing a field within said means, said means being arranged to direct said field in a generally horizontal direction; means connected to supply to said coil a cyclically varying unidirectional current; a support in which at least a part of said magnetizable means in which said field is developed is freely pivoted for rotation about a vertical axis under the action of the earth's magnetic field; two fixed coils having substantially horizontal axes at right angles the one with respect to the other wherein currents are induced the intensity of which depends upon the direction of said part: and means for the remote transmission of said currents so as to reproduce a magnetic field the direction of which is bound to that of said part.

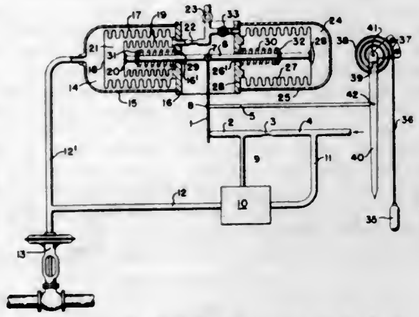
2,588,620
SILK SCREEN PRINTING MACHINE
Louis Gilbert Dubuit, Paris, France
Application April 5, 1951, Serial No. 219,389
In France October 4, 1950
8 Claims. (Cl. 101—126)

1. In a silk screen printing device for printing on a circular surface of an object, a silk-screen stencil, means for supporting said stencil in a substantial horizontal plane, means for supporting the object to be printed and means for applying the circular surface of said object which is to be printed under said stencil, a flexible squeegee cooperating with said stencil, the length of said squeegee being substantially equal to the diameter of said circular surface, horizontally flexible and vertically rigid supporting means for said squeegee, having approximately the same length as said squeegee, means for holding one end of said squeegee supporting means at a fixed point above the periphery of said circular surface in the object supporting means, means for guiding the other end of said squeegee support-



ing means along a part of the periphery of said circular surface, extending on both sides of a point diametrically opposed to the above mentioned fixed point, and means for causing said squeegee to take an arcuate position following part of the periphery of said circular surface and to pass from said position to a symmetrical position with respect to the diameter of said circular surface which passes through the above mentioned fixed point.

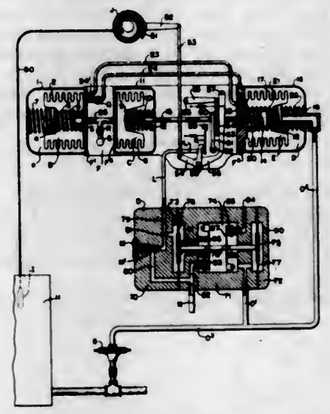
2,588,621
PNEUMATIC CONTROL SYSTEM
Donald P. Eckman, Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 14, 1947, Serial No. 785,989
6 Claims. (Cl. 137—153)



1. An air controller unit comprising first and second expansible air chambers each having walls including a movable wall biased to a predetermined position and having a restricted passage through which each of said chambers is in restricted communication with the atmosphere, a movable mechanical connection between said movable walls and actuated by the expansion of either chamber to contract the other chamber, said first chamber having a second movable wall,

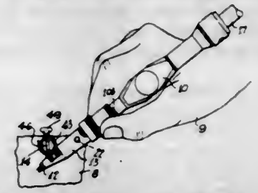
means for maintaining a control pressure comprising a bleed nozzle and a throttling valve movable to vary the pressure in said nozzle, means for subjecting the outer side of said second movable wall of said first chamber to a force proportional to said control pressure, and valve adjusting means including an element movable in accordance with variations in a controlled variable and means through which the movements of said mechanical connection give said valve reset adjustments, and retarded follow-up adjustments whereby said controller unit gives proportional, reset and rate control responses on a variation in the value of said controlled variable.

2,588,622
PNEUMATIC CONTROL APPARATUS
Donald P. Eckman, Ithaca, N. Y., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 15, 1947, Serial No. 786,247
11 Claims. (Cl. 137—153)



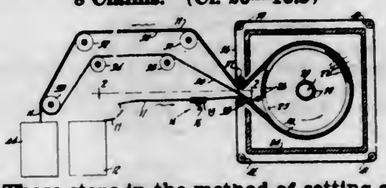
1. An air controller comprising a framework and first, second and third expansible chambers each having walls including a rigid wall portion attached to said framework, a movable wall separating said first and second chambers and biased to a predetermined position, said third expansible chamber being in free communication with said second chamber and having a movable wall, means biasing the last mentioned wall to a predetermined position comprising a rod connected at one end to said wall and a cross-head connected to the other end of the rod, a biasing spring acting between said last mentioned movable wall and said framework and a second biasing spring acting between said cross-head and framework and opposing movement of the rod in the direction in which the first mentioned spring tends to move the rod, means providing restricted communication between said second and third chambers and the atmosphere, valve means regulating the air pressure in said first chamber and valve operating means including an element moving in response to variations in a controlled variable to adjust said valve means to increase and decrease the pressure in the first chamber as said variable varies in one direction or the other from a normal value thereof, and valve adjusting means actuated by said rod to effect follow-up and reset adjustments of said valve means when said rod is moved away from and returned to its normal position.

2,588,623
SURGICAL INSTRUMENT FOR INTRADERMAL INJECTION OF FLUIDS
Frank Eliscu, Ossining, and Morris B. Kassel, New York, N. Y.
Application May 10, 1948, Serial No. 26,088
7 Claims. (Cl. 128—253)



1. A surgical instrument of the character described, said instrument comprising a handle, a plurality of reciprocating needles in said handle, a sheath mounted on said handle and enclosing and completely housing said needles when retracted, said sheath having an opening through which the pointed ends of the needles may be projected and a pigment container mounted on said sheath and communicating with the interior thereof, whereby the pigment contents of the container are supplied directly to the reciprocating needles, said sheath being adjustably mounted on the handle for movement relative to the needles, whereby the extent of exposure of said needles may be varied.

2,588,624
METHOD OF FINISHING KNITTED FABRIC
Richard Evans, 2nd, Johnstown, N. Y.
Application September 10, 1949, Serial No. 115,007
8 Claims. (Cl. 26—18.5)



1. Those steps in the method of setting a knitted fabric to a substantially fixed size which said fabric will assume when in a normal unstressed condition and which comprise, bringing said fabric while moist into a fully relaxed condition substantially free of stress, and thereafter subjecting said fabric in said fully relaxed condition to a drying treatment while holding substantially every portion thereof in fixed relation to every other portion thereof.

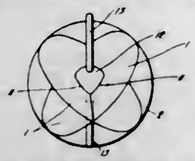
2,588,625
FORGING LUBRICANT AND METHOD OF USING SAME
Warren E. Ferner, George Alexander, John Robinson, and Walter E. Streeter, Monroe, Mich., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application March 15, 1945, Serial No. 583,004
13 Claims. (Cl. 117—49)

1. A slurry for application to slugs to be forged or pressed consisting essentially of water, from about 3 to 20 per cent of finely divided solid undissolved mineral lubricating material which is stable at the forging or pressing temperature to which the slugs are subjected, from about 0.25 to 4 per cent of an organic adhesive uniformly

distributed throughout the slurry which is soluble in water or capable of forming a colloid or suspension therein and which does not form a carbonaceous film during the drying and preheating operations preparatory to forging or pressing, and from 1.5 to 20 per cent of a compatible inorganic water-soluble salt inert toward said adhesive and stable at the forging or pressing temperature, the total amount of said lubricating material, organic adhesive and salt constituting from 10 to 30 per cent by weight of the slurry.

8. In the art of forging or pressing metal slugs, the method of lubricating said slugs comprising heating them to a temperature between 200 and 500° F., coating them with a slurry prior to hot working, said slurry consisting essentially of water, not less than 3 per cent by weight of finely divided solid undissolved mineral lubricating material which is stable at the hot working temperature to which said slugs are to be subjected, 0.25 to 4 per cent by weight of an organic adhesive uniformly distributed throughout the slurry which is soluble in water or capable of forming a colloid or suspension therein and which does not form the carbonaceous film during the drying and preheating operations preparatory to hot working, and not less than 1.5 per cent by weight of a compatible inorganic water-soluble salt inert toward said adhesive and stable at the hot working temperature, the total amount of said lubricating material, organic adhesive and salt constituting from 10 to 30 per cent by weight of said slurry, maintaining said slugs within the temperature range of 200 to 500° F. to vaporize said water and leave a solid adherent coating of said lubricating material, adhesive and salt.

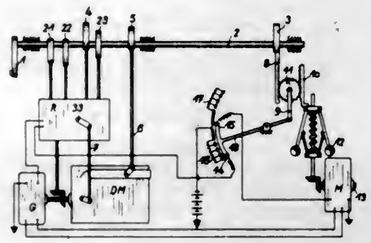
2,588,626
AIR DISTRIBUTOR
Jean Léon Fourtier, Paris, France
Application April 29, 1946, Serial No. 665,689
In France November 3, 1944
5 Claims. (Cl. 98—40)



1. A device for guiding a stream of air emerging from a ventilation outlet in a wall having a circular opening comprising a plurality of pairs of fins, each fin consisting of a semi-circular, plane, rigid plate of substantially the same size as one-half of said circular opening, said fins being assembled together on a common diameter with pairs of fins in common planes, and spherical means supported from said wall in said opening and having the same center as said fins and secured to said fins for rotatively supporting said assembled fins, whereby said fins may be swivelled about their common center in all directions thus allowing said opening to be obturated.

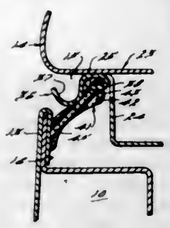
2,588,627
CONTROL FOR DIESEL-ELECTRIC DRIVES
Karl Hefel, Innsbruck, Austria
Application January 10, 1950, Serial No. 137,731
In Austria May 29, 1948
6 Claims. (Cl. 290—17)

1. In a diesel-electric drive composed of a diesel-engine, a separately excited generator, and a separately excited electric motor, a controlling device comprising an output selector, a differential mechanism, a speed governor, and a regulator for the excitation of the electric machines, the output selector consisting of an actuating device for setting the output desired, at least three curved guides connected to said actuating device, and adjusting means for the fuel supply



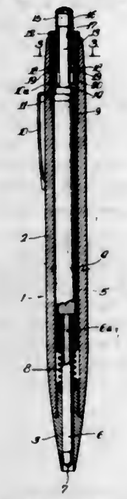
and the theoretical speed of the diesel-engine as well as for the adjustment of the speed governor, the differential mechanisms having three members of which the first is operatively connected to said curved guide for the theoretical speed, the second being connected to a device dependent on the speed of the vehicle propelling motor, whilst the third is connected to a governor employed for the excitation of the electrical machines.

2,588,628
DOOR SEAL CONSTRUCTION
Alan L. Higbie, Walled Lake, and Carl A. Stamm, Royal Oak, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 13, 1948, Serial No. 26,828
12 Claims. (Cl. 296—44)



1. In an automobile body, in combination a door frame member provided with a depressed jamb including an inwardly extending wall portion and a substantially vertically extending, exteriorly exposed wall portion, said wall portions defining a door jamb recess, a drip molding mounted on said door frame member and positioned within said recess so as to extend along the exterior edge thereof, a door member hingedly mounted on said frame member, said door member including a vertically extending, exteriorly exposed, marginal flange portion adapted to be positioned substantially across said recess when said door is in closed position, and a resilient seal mounted on said drip molding having a sealing finger arranged beneath said drip molding adapted to be moved into sealing engagement with the marginal flange of said door member when said door member is moved to closed position, the sealing portion of said seal being covered by said drip molding when the door is in closed position.

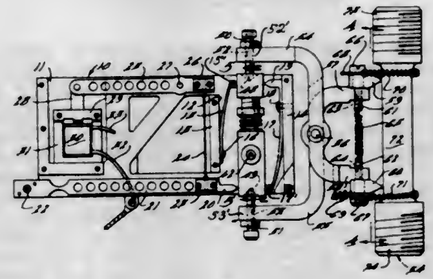
2,588,629
BALL POINT WRITING INSTRUMENT
Philip C. Hull, Janesville, Wis., assignor to The Parker Pen Company, Janesville, Wis., a corporation of Wisconsin
Application September 20, 1945, Serial No. 617,518
1 Claim. (Cl. 120—42.03)



In a writing instrument, a hollow elongate holder having a bore opening at its front end, a writing unit having a writing point at its front end, means slidably mounting said unit in said holder whereby it is capable of being propelled forwardly to project said writing point out of the front end of said bore into writing position and of being retracted to move said writing point into said holder, said writing unit being of substantially the same diameter as said bore for the greater part of its length, a reduced diameter pushbutton engageable with said unit adapted to project out of the rear end of the holder, said pushbutton being operative, upon being depressed, to propel said writing unit forwardly, a plurality of circumferentially spaced, laterally movable, outwardly urged spring fingers secured to said pushbutton, said holder having longitudinally spaced circumferential formations for receiving said spring fingers, said circumferential formations and spring fingers having interengaging camming surfaces, said spring fingers when in one of said circumferential formations being operative to hold said writing unit in its projected position against ordinary writing pressure but yieldable to retractive pressure applied longitudinally to the writing point when said retractive pressure is substantially greater than ordinary writing pressure.

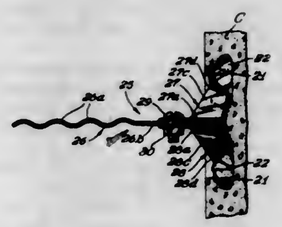
2,588,630
TESTING APPARATUS
Richard L. Jackman, Ferndale, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application July 29, 1949, Serial No. 107,415
5 Claims. (Cl. 33—148)

1. In apparatus for measuring the extension of a member to be tested, the combination of a device comprising a body portion having a channel therein, an arm pivoted on said body portion having an end portion extending into said channel and means operatively connected to said arm for indicating the amount of movement thereof, and an attachment for said device comprising two relatively movable parts disposed within said channel, one of said parts being fixed relative to said base portion and the other engaging and being adapted to move the end portion of said arm, a pair of levers pivotally connected having pairs of adjacent ends, one end of one lever being operatively connected to one of said relatively movable parts, the adjacent end of the other lever being operatively connected to the other relatively movable part, and each of the other of said pair of adjacent ends being adapted to engage



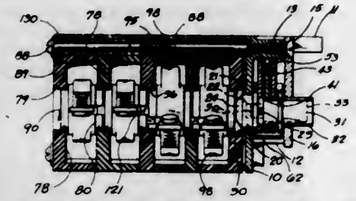
said member to be tested, means connected to said last mentioned pair of adjacent ends adapted to secure them to said member to be tested, said adjacent ends of each pair being adapted to move away from each other in response to expansion of said member to be tested, and resilient means disposed between said relatively movable parts and adapted to move the movable part engaging the end portion of said arm outwardly of said channel in response to the separatory movement of the ends of said levers.

2,588,631
WALL ANCHORING DEVICE
Robert Maxwell James, Buffalo, N. Y.
Application March 29, 1949, Serial No. 84,063
5 Claims. (Cl. 72—105)



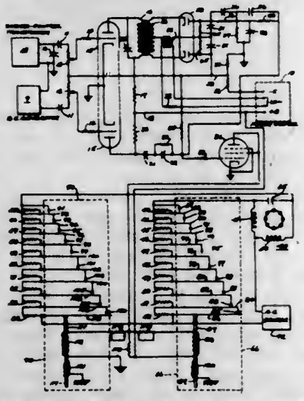
3. An anchorage device for architectural treatment of a concrete surface defining dovetailed key recesses comprising, in combination, a shank having a flat apertured crown, a first fluke on one side of said crown and a second fluke on the other side of said crown and fastening means holding said shank and said flukes in firm assembly, each of said flukes having a flat apertured base engaging said crown and a pair of substantially triangularly shaped arms extending away from said base, said arms having their inner edge acutely inclined to develop a substantially conical bearing surface for cooperative locking engagement with said dovetailed niche, said conical bearing surface more specifically comprising a plurality of radially spaced angularly inclined edges on said arm portions.

2,588,632
SWITCH
Max L. Jeffrey, Shaker Heights, Ohio
Application April 19, 1947, Serial No. 742,578
4 Claims. (Cl. 200—6)



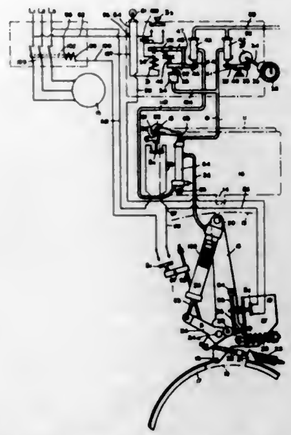
1. A plurality of identical housing members, each having a chamber formed therein, opening through one side of the housing, a wall for each chamber formed with an aperture therein, identical contact rotors each including a barrel and arms extending from opposite sides thereof, said barrels being rotatably journaled in said apertures and being formed with tongues on one of their ends and grooves in the other ends, contact carrying bars loosely carried by the barrels and having contacts on their ends, spring means disposed between said arms and said contact bars, fixed contact carrying members supported by said housing members and having contacts disposed in said chambers adapted for engagement by the movable contacts, means to hold said housings in juxtaposed relation to each other and the tongues in one rotor adapted to enter into the grooves in one of the other rotors to provide drive means between the separate rotors, said housing members together with their rotors being reversible, to provide for assembling a unit of housings and rotors wherein the contacts in some housings are opened while the contacts in others are closed simultaneously, and a separator strip interposed between the housings wherein the grooved ends of the barrels are toward each other and connector means extending between said grooves and guided by said separator strip.

2,588,633
SYSTEM AND APPARATUS FOR CONTROLLING THE SUPPLY OF POWER TO ELECTRIC MOTORS
Ernest W. Johnson, Everett, Mass., assignor to Transducer Corporation, Boston, Mass.
Application September 21, 1949, Serial No. 117,025
6 Claims. (Cl. 318—207)



1. A remote positioning system for an electric motor having a pair of windings for causing the rotor of the motor to rotate in opposite directions, comprising means including a first plurality of series connected resistors for energizing one of said windings, means including a second plurality of series connected resistors for energizing the other of said windings, resistor shorting means normally arranged to short out some but not all of the resistors of each of said pluralities of resistors, means for adjusting said shorting means for increasing the number of shorted out resistors in one of said pluralities and for simultaneously decreasing the number of shorted out resistors in the other of said pluralities, a phase detector, means for supplying an error signal to said detector, and means including said phase detector for actuating said means for adjusting said shorting means.

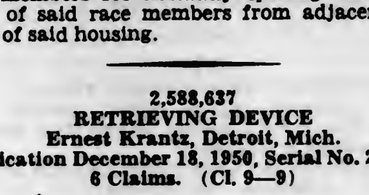
2,588,634
AUTOMATIC CONTROL AND SAFETY COVER FOR EXTRACTORS
Oscar W. Johnson, Rochester, N. Y., assignor to The American Laundry Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application August 24, 1946, Serial No. 692,876
7 Claims. (Cl. 192—136)



1. Apparatus of the character described, comprising a rotatable extracting member, a cover for said member movable to open and closed positions, a fluid pressure operated servomotor for operating said cover, a locking device operatively associated with said servomotor for releasably locking the same in cover closed position, an operator for releasing said locking device, a timing device, manually operated means operatively associated with said operator and controlled by said timing device for causing operation of said servomotor and operator to open the cover, and means whereby said manually operated means is rendered ineffective during the extracting operation.

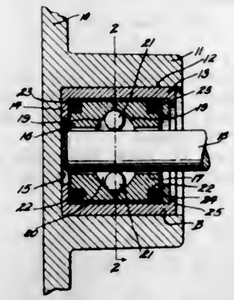
2,588,635
DISPLAY DEVICE
Newton R. Junkin, Detroit, Mich.
Application May 19, 1947, Serial No. 748,979
4 Claims. (Cl. 40—16)

1. A display device comprising a solid transparent body having a pair of laterally spaced diverging grooves therein and a display card positioned in said grooves and projecting outwardly from said transparent body to form a semi-cylindrical surface having printing on both sides thereof, whereby one surface of said semi-cylindrical portion presents an unobstructed view



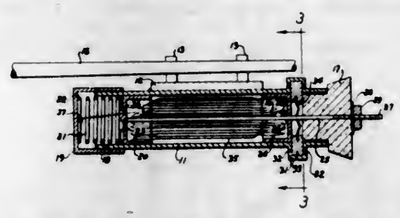
to the observer and the other printed surface is legible through said transparent body.

2,588,636
NOISELESS SELF-ALIGNING BALL BEARING
Theodore Y. Korsgren, Reynoldsburg, Ohio, assignor to Crise Manufacturing Company, Columbus, Ohio, a corporation of Ohio
Application June 28, 1949, Serial No. 101,837
4 Claims. (Cl. 308—184)



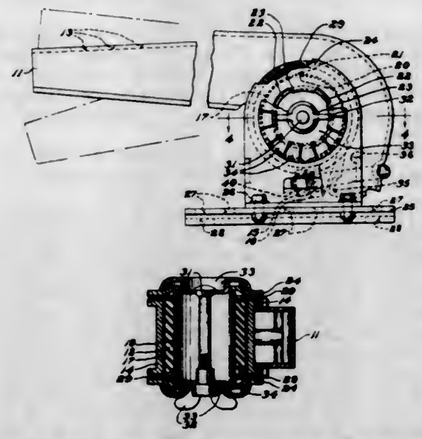
1. A ball bearing comprising a sleeve-type housing, a pair of separable race members confined within said housing in longitudinal alignment therein, said race members being formed with shaft-receiving openings and with opposed raceways, ball members positioned in the space formed between the raceways, the ends of said race members being formed with annular shoulders, and ring members of compressible material positioned on the annular shoulders of said race members for normally spacing outer surfaces of said race members from adjacent surfaces of said housing.

2,588,637
RETRIEVING DEVICE
Ernest Krantz, Detroit, Mich.
Application December 18, 1950, Serial No. 201,449
6 Claims. (Cl. 9—9)



1. In an article retrieving device having a cylindrical housing open at one end adapted for mounting on said article, a hollow annular flange adjacent said open end, a cork loosely positioned within said open end, a pair of cups facing inwardly from the opposite ends of the housing and slidably positioned therein, a rod projecting through and joined at one end to said cork and to one of said cups, with its inner end operatively engageable with said other cup for positioning and maintaining said other cup within said housing, a coiled spring in said housing between said other cup and the closed end of said housing, a water dissolvable pellet positioned within said flange with a portion projecting into the interior of said housing retainingly engaging the outer end of said one cup for maintaining the same within said housing against the action of said spring, and a folded line in said housing between said cups anchored at one end to said housing and with its free end joined to said one cup.

2,588,638
SEAT HAVING TORSION SPRING SUSPENSION
Alvin S. Krotz, Akron, and Robert R. Cowden, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 10, 1946, Serial No. 689,706
13 Claims. (Cl. 155—51)

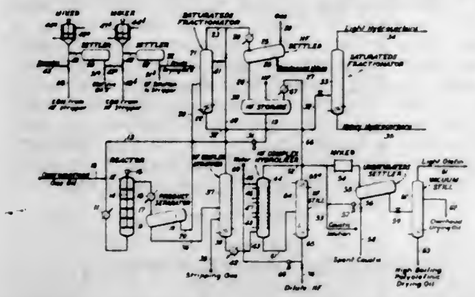


11. A seat suspension comprising a supporting structure, a torsion spring mounted on said structure, a cantilever member mounted on said spring for springing movement therewith, said structure having bracket members and embracing said spring, means comprising slippage resisting elements interposed between said bracket members and said spring and adjustable means for urging said bracket members against said slippage resisting element for adjustably dampening the springing movement of said member and a seat so mounted on said member that the entire seat is located at a position spaced along said member from said spring.

2,588,639
PRODUCTION OF DRYING OILS BY HF-HYDROCARBON PROCESSING
Robert J. Lee, La Marque, and Paul D. May, Galveston, Tex., assignors to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware
Application May 4, 1948, Serial No. 24,958
5 Claims. (Cl. 260—666)

1. The method of hydrolyzing an HF-polyolefinic hydrocarbon complex wherein the polyolefinic hydrocarbon component contains about 4 to 6 double bonds per molecule which method comprises initially contacting said complex with an aqueous HF solution containing at least about

50 but less than 80 weight percent HF while removing heat of hydrolysis and effecting said hydrolysis by initially contacting the complex with



a portion of said solution at a temperature below about 85° F. and contacting partially hydrolyzed complex with a portion of said solution at a higher temperature which is below 200° F.

2,588,640

HYDROFUGATION OF TEXTILE MATERIALS

René Léon Lehmann, Paris, and Josef Lintner, La Garenne Colombes, France, assignors to Boxel-Maletra Societe Industrielle de Produits Chimiques, Paris, France, a corporation of France

No Drawing. Application November 4, 1948, Serial No. 58,370. In France April 26, 1948

13 Claims. (Cl. 260—67.6)

7. A method of manufacturing condensation products easily emulsifiable in water intended for enhancing the qualities of textile materials and more particularly for hidrophobing the same, consisting in heating in an acid medium a monovalent fatty alcohol containing at least 10 carbon atoms and not more than 20 carbon atoms, with a condensation product resulting from two steps: the first of which consists in the condensation of an amide selected from the group consisting of urea, melamine and oxamide, in an acid medium, with glyoxal; and the second step consisting in condensing the product thus obtained with formaldehyde in an alkaline medium, the amount of fatty alcohol used being such that only a portion of the methylol groups present is etherified.

2,588,641

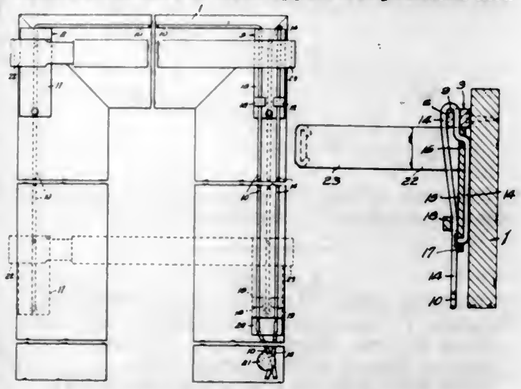
CURTAIN RAISING AND LOWERING FIXTURE

Ida Lundstrom, St. Louis, Mo.

Application December 29, 1947, Serial No. 794,360

4 Claims. (Cl. 211—103)

1. A curtain fixture comprising a pair of supporting members adapted to be secured to a window frame adjacent the upper corners thereof, pull-cords slidable through vertical openings in said supporting members, vertically movable carriers suspended from like ends of the pull-cords, loops carried by one of the carriers through which the two pull-cords pass downwardly, a spacer secured to the pull-cords, telescopically connected curtain-rod sections connected at their outer ends with the carriers, said pull-cord supporting members serving as stops to limit upward movement of the carriers, the spacer serving as a stop to limit downward movement of the carriers by coming into contact with the lower end portion of the loop provided carrier, and means adapted to be secured to a window frame a suitable distance below the loop provided carrier to which the pull-cords are detachably connected to hold the carriers in their uppermost positions and



in contact with the lower faces of the pull-cord supporting member.

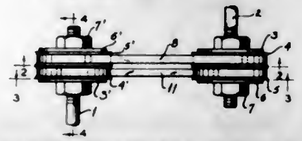
2,588,642

ANTIBACKLASH COUPLING

James S. Malsbary, Glendale, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware

Application July 31, 1946, Serial No. 687,437

7 Claims. (Cl. 74—242.8)



1. In a mechanism for transmitting power from a shaft to a second shaft laterally displaced therefrom; a pair of pulleys mounted on one of said shafts, each pulley of said pair being rotatable relatively to the shaft; pulley means on the other shaft; flexible means for connecting each pulley of said pair to said pulley means on the second shaft; and means for clamping said pulleys together and for locking said pair of pulleys against rotation relative to its shaft.

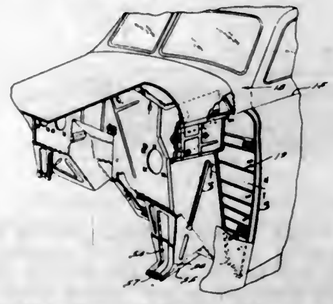
2,588,643

AUTOMOBILE BODY FRONT PILLAR

John A. Maxwell, Detroit, Mich., assignor to Kaiser-Frazer Corporation, Willow Run, Mich., a corporation of Nevada

Application June 13, 1947, Serial No. 754,401

2 Claims. (Cl. 296—28)



1. In an automobile body, a forward cowl portion having side cowl panels offset inwardly at the top, brackets secured to said side cowl panels

in spaced relation to the inwardly offset cowl portions to form channel-like recesses open at the front and top for the reception of hood hinges, and a front door post portion secured to the side cowl panel and to the bracket to provide reinforcement therefor.

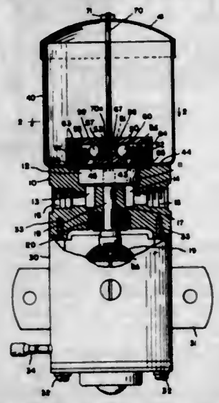
2,588,644

HYDRAULIC POWER UNIT

Stewart B. McLeod, Dearborn, Mich., assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan

Application September 29, 1947, Serial No. 776,635

15 Claims. (Cl. 103—2)



1. In a hydraulic system, a compact motor, pump, reservoir and valve assembly comprising a block having a vertical opening therethrough, a motor mounted at the underside of said block having a shaft extending through said opening, a recess in the top of said block communicating with said opening, a pump in said recess operatively connected to said shaft, fluid passages in said block connected with said pump, a fluid reservoir mounted at the top of said block and closing said recess, fluid passages connecting said reservoir to opposite sides of said pump, and valves in said last mentioned fluid passages, means interconnecting said valves to prevent simultaneous closure thereof, said valves being constructed and arranged to close the fluid passage connecting the reservoir to the pressure side of said pump and to open the fluid passage connecting the reservoir to the suction side of said pump.

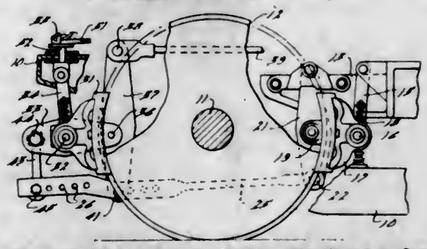
2,588,645

BRAKE BEAM BALANCING LINK

Archie M. Miers, Croton-on-Hudson, N. Y., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application September 30, 1949, Serial No. 118,739

2 Claims. (Cl. 188—212)



1. In a railway truck brake rigging, a frame member, a brake beam hanger depending from and pivotally connected to said frame member, a brake beam mounted on said hanger for rotation about a horizontally disposed axis, a horizontally disposed yoke member carried by said beam arranged to extend transversely of and to project from opposite sides of the rotational axis of said beam, a vertically disposed floating lever for actuating said brake beam having a portion intermediate the ends thereof pivotally connected to the yoke member on one side of the brake beam rotational axis, actuating means for said floating lever connected to the upper end thereof, a horizontally disposed, rigid connecting link pivotally connected to the lower end of said floating lever, and a rigid, brake beam balancing link pivotally connected to and depending from the yoke member on the other side of the brake beam rotational axis and to said connecting link, said connected yoke member, balancing link, connecting link and floating lever providing a parallelogram linkage to support and control the movement of the floating lever.

2,588,646

INSULATING FIREBRICK AND PROCESS OF MANUFACTURE

William A. Miller, Elizabeth, and Temple W. Ratcliffe, Westfield, N. J., assignors to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey

No Drawing. Application March 17, 1948, Serial No. 15,496

13 Claims. (Cl. 106—40)

1. The method of manufacturing a high temperature insulating fire brick which comprises milling a highly calcined non-plastic refractory material with ferrous pulverizing elements of lower hardness than the refractory material for a period sufficient to finely pulverize the refractory material and disperse therein a small amount of ferrous particles, forming a thixotropic slip containing the milled refractory material and water, chemically bloating the slip by chemically reacting the included ferrous particles with acid to evolve hydrogen in the slip, casting the slip in a mold while absorbing water from the slip to effect a thixotropic set, and drying and firing the molded shape.

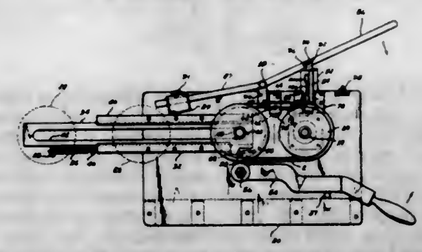
2,588,647

APPARATUS FOR MAKING BELTS

Clyde O. Mitchell, Clifton, N. J., assignor to Howe Machinery Company, Inc., a corporation of New Jersey

Application October 28, 1948, Serial No. 56,983

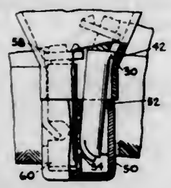
5 Claims. (Cl. 219—19)



1. Apparatus for shaping elongated endless cores for covered V belts, said cores consisting largely of uncured rubber-like elastomer, comprising a fixed supporting structure, means to support and guide an elongated endless belt core of generally rectangular cross-section for travel in the direction of its length, said last named

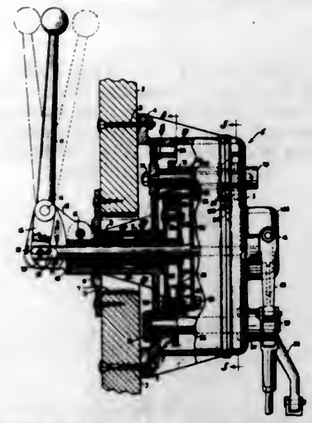
means comprising a first, fixed, guide sheave journalled on an axis on the supporting structure, a movable guide sheave mounted on the supporting structure for movement toward and away from the first guide sheave, the movable guide sheave being journalled on an axis which lies in a common plane with the axis of the first guide sheave, the movable guide sheave being movable toward and away from the fixed guide sheave to accommodate belt cores of different lengths, means for drivingly rotating at least one of the guide sheaves, means to move the movable guide sheave toward and away from the fixed guide sheave and to hold it in a predetermined position whereby to tension a belt core held on the two guides sheaves, and means for skiving the core to cut off the two adjacent outer corners of said core throughout its length during travel of the core about the sheaves, said skiving means comprising a guideway mounted on the fixed supporting structure of the device adjacent one of the guide sheaves, said guideway lying substantially normal to the belt core in its run adjacent the inner end of the guideway, a slide received in said guideway and movable toward and away from the belt core, means to move the slide in such directions, and cutting means mounted on the slide, said cutting means comprising two oppositely inclined elongated, thin, electrical resistance elements, said electrical resistance elements being disposed in the form of an inverted V, the plane in which such V lies substantially coinciding with the plane of the guideway normal to the longitudinal axis of the belt core, the outer ends of the respective electrical resistance elements at least substantially approaching each other, insulating means on the slide supporting such outer ends of the resistance elements, spaced apart electrical insulating supporting means at the inner portion of the slide supporting the inner spaced apart, ends of the electrical resistance elements, and an electrical supply circuit including the resistance elements therein.

2,588,648
SEPARABLE SLIDE FASTENER
Otto J. Moehler, Newark, N. J., assignor to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Application March 28, 1946, Serial No. 657,659
17 Claims. (Cl. 24—205.11)



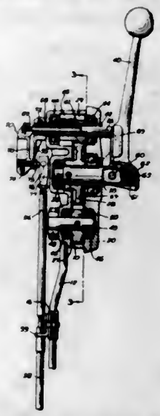
1. A separable slide fastener comprising stringers carrying interlockable fastener elements, a slider for meshing said elements, a pin at the lower end of one of said stringers, a bottom stop at the lower end of the other stringer, said bottom stop including a socket for receiving the pin, the upper end of said pin having a projection extending outwardly collaterally of the tape and beyond the fastener elements, and the slider having a mating recessed seat for receiving said projection, so that if the pin is not inserted fully in the socket the projection is received in the aforesaid seat, whereas when the pin is inserted fully in the socket the projection is below the aforesaid seat.

2,588,649
COMBINED THROTTLE AND CLUTCH CONTROL FOR MARINE ENGINES
John F. Morse, Hudson, Ohio
Application March 18, 1948, Serial No. 15,546
31 Claims. (Cl. 74—472)



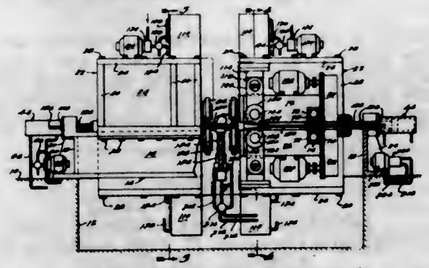
1. A unitary device for controlling the reversible transmission and the throttle of an engine, said device comprising a manually operated arm movable in two planes, a rotatable shaft, an operative connection for the shaft and the transmission, a second rotatable shaft, an operative connection for the second shaft and the throttle, and means connected to the arm and movable during a single operation thereof in one plane to rotate the first-named shaft to shift the transmission from forward through neutral to reverse, said means also acting to rotate the second-named shaft to close the throttle during the interval that the transmission is being shifted and to open the throttle after the transmission is engaged either in forward or reverse, and additional connections between the arm and the second-named shaft operative by movement of the arm in the other plane to rotate the second-named shaft without rotating the first-named shaft.

2,588,650
MARINE ENGINE CONTROL
John F. Morse, Hudson, Ohio
Application February 24, 1949, Serial No. 78,029
11 Claims. (Cl. 192—.098)



1. In a mechanism for operating the clutch and throttle of an engine comprising a set of interrupted gears, comprising a driving gear and two driven gears rotated thereby, one of said driven gears being adapted to be operatively connected to the throttle and the other driven gear being adapted to be operatively connected to the clutch, said second named gear being actuated by the driving gear during the interval that the first named gear is idle, a pivoted lever movable in two planes and connected to the driving gear to rotate it during movement in one plane, and operative connections to the throttle actuated by the movement of the lever in the other plane.

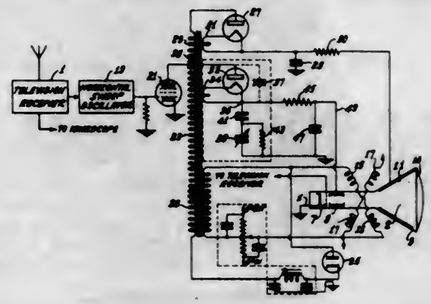
2,588,651
MACHINE FOR ROLLING TAPERED DISKS
Emil A. Nelson, St. Clair Shores, Mich.
Application February 21, 1945, Serial No. 579,106
4 Claims. (Cl. 80—16)



3. A mill capable of cold rolling steel plates comprising, in combination, a frame, a rotatable work supporting spindle fixed in position relative to said frame, a unit slidably mounted on said frame for movement toward and from the axis of rotation of said work spindle, a pair of roller carriers movably mounted on said unit, a roller rotatably supported by each of said carriers, means for rotating said rollers, fluid pressure means associated with each of said carriers operable to move said carriers in a direction to cause said rolls to approach each other to engage a piece of work carried by said work spindle between them, means located directly below said fluid pressure means for limiting the approach of said rolls toward one another under the influence of said fluid pressure means, means in said unit for offsetting the reaction forces of said fluid pressure means against each other independently of said frame, and means for shifting said unit on said frame.

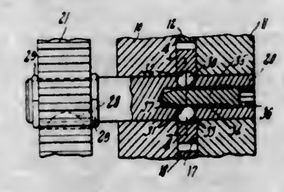
2,588,652
HIGH-VOLTAGE SUPPLY
Morris D. Nelson, Bronx, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 17, 1951, Serial No. 211,497
2 Claims. (Cl. 315—14)

1. A high voltage power supply for an electrostatically focused cathode ray tube comprising a first anode and a second anode, said high voltage power supply comprising a transformer having connecting points thereon, a first rectifier having an anode and a cathode, means connecting the anode of said first rectifier to a first connecting point on said transformer, means connecting the cathode of said first rectifier to the second anode of said cathode ray tube, a second rectifier having first and second electrodes, means connecting the first electrode of said second rectifier to a second connecting point on said transformer, means connecting the second electrode of said second rectifier to the first anode of said cathode ray tube, a reactance voltage divider comprising two reactance elements, one of said reactance elements comprising the interelectrode reactance of



said second rectifier, and the other of said elements comprising a variable reactance connected between the second electrode of said second rectifier and ground.

2,588,653
FLOATING DRIVE CONNECTION FOR METERING PUMPS
Arthur A. Nichols, Weston, Mass., assignor to W. H. Nichols Company, Waltham, Mass., a corporation of Massachusetts
Application September 17, 1947, Serial No. 774,599
3 Claims. (Cl. 103—126)

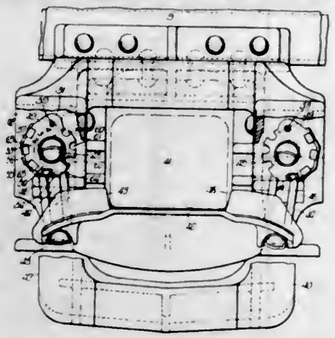


1. In a gear pump which has side walls with plane parallel opposed faces and with a transverse bore for a shaft, a gear closely fitted between said opposed faces, said gear having a plane parallel side faces and a central transverse bore, said gear also having spherically curved recesses in its bore spaced inward from said side faces, a shaft extending through said bore, said shaft having therein an axial passage extending in from an end thereof and radial passages intersecting said axial passage, a ball in each said radial passage, each said ball having a smaller radius of curvature than said recesses, and an expander in said axial passage supporting said balls radially so that they protrude into said recesses.

2,588,654
CAR COUPLER SUPPORT AND POSITIONING DEVICE
Karl T. Nystrom, Chicago, Ill., and Alfred L. Thompson, Munster, Ind., assignors to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application June 1, 1948, Serial No. 30,436
17 Claims. (Cl. 213—61)

1. A railway car coupler carrier mechanism comprising a coupler carrier adapted to support a coupler shank, an adjustable support, means extending between said support and said carrier to support said carrier, and means including an eccentric rotatable block between said support and a car part for varying the re-

lation of said support to said car part to thereby optionally vary the elevation of a coupler



carried by said carrier upon rotation of said block.

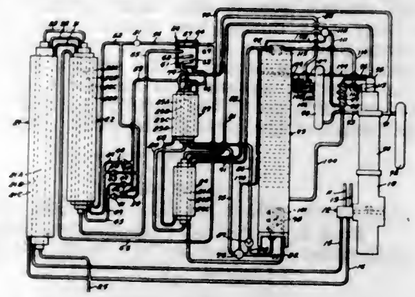
2,588,655
EXPANDIBLE AND CONTRACTIBLE BUCKLE
Henry James O'Neill, Waterbury, Conn., assignor to Benrus Watch Company, Inc., New York, N. Y., a corporation of New York
Application November 28, 1947, Serial No. 788,372
10 Claims. (Cl. 24—71)



8. An expandable and contractible buckle comprising a plurality of sections foldable upon one another, a member slidable in one of said sections, a spring active upon said member to urge it into retracted position within said section, and positioning structure comprising a detent element and a cooperating detent receiver on said member and one of said sections, said detent receiver being so shaped relative to said detent element as to permit some freedom of movement of said member in each of its detented positions, said positioning structure being engageable when said buckle is folded and being so constructed and arranged as to retain said slidable member in any one of a plurality of positions with a limited degree of resilient slidability in said positions but permit said member to be manually slid in either direction beyond said limited degree upon the application of force thereto solely in the direction of desired motion.

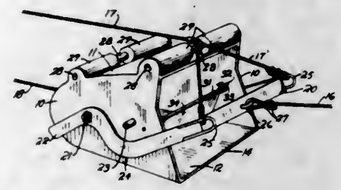
2,588,656
METHOD OF AND APPARATUS FOR TREATING GASES
Win W. Paget, Michigan City, Ind., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 18, 1949, Serial No. 122,079
10 Claims. (Cl. 62—2)

1. In apparatus for producing substantially pure oxygen from compressed air, a rectifier column, a waste gas conduit, a connection for the waste gas conduit to the column, the connection being at column pressure, an expansion engine, a conduit connected to supply compressed air to the expansion engine, a pressure responsive expansion valve, a conduit connected to supply compressed air to the valve, an evaporator-condenser in the column, a conduit connected to conduct expanded air from the engine to the evaporator-condenser, a conduit connected to conduct expanded air from the valve to the evaporator-condenser, a second pressure responsive expansion valve, a conduit connected to conduct air from the evaporator-condenser to said second



valve, a conduit connected to conduct air from the second valve to the column, and a pressure connection from each of the expansion valves to the waste gas conduit whereby the valves are responsive to the pressure in the waste gas conduit.

2,588,657
SLUSHER BUCKET
John O. Pitts, Grand Junction, Colo.
Application December 27, 1948, Serial No. 67,370
4 Claims. (Cl. 37—135)

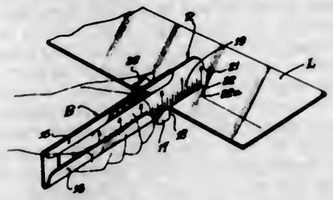


1. In a slusher bucket, a bucket open at its front, a tail rope connected with the rear end of said bucket, a U-shaped bail straddling said bucket and having a bridge and arms extending rearwardly from the bridge along opposite sides of the bucket, pivot members pivotally connecting the opposite side walls of the bucket with the arms of said bail and pivotally mounting the bucket for tilting movement through the bail, a lead rope and a return rope connected with the bridge of said bail, and stop members projecting outwardly from the side walls of the bucket forwardly of the pivot members and over the bail in position to be engaged by the arms of said bail when the bail is swung upwardly and rearwardly so as to tilt the bucket and the bail to an inverted position, the pivot members then pivotally mounting the bucket for downward tilting movement through the bail to a dumping position.

2,588,658
METAL SCRIBING GAUGE
Louis Plotnik, Compton, Calif.
Application June 23, 1948, Serial No. 34,640
1 Claim. (Cl. 33—42)

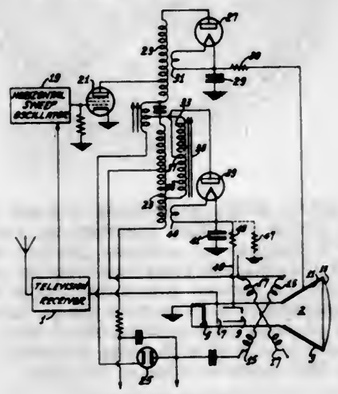
A flat metal scribing gage, including: an elongated body of sheet metal provided with bent-over top and bottom flanges substantially coextensive in length therewith, and providing guide channels at one side thereof, the bottom flange terminating short of the end of the body and having a portion extending outwardly to lie in the plane of the body and providing a straight edge with the end of the body; a flat metal ruler

slidable longitudinally in said channels and provided along its lower edge with scale markings adapted to be brought into registration with the straight edge from zero marking to the end marking of the scale; an integral extension on the operative end of said ruler bent upon itself to provide a sleeve for holding a scribing needle therein; said body at a point adjacent the straight edge being outstruck at its back to form outwardly projecting ears and an opening between the latter in which the back of said ruler



is exposed; and a lever of U-form in cross section having its parallel portions fulcrumed in said ears and formed at their fulcrumed ends into a pair of space cams which, in one position of the lever engage the back of the ruler for locking it in any position of adjustment longitudinally in the body, and in another position disengage the ruler, the lever of a length that in ruler-locking position its free end projects above the upper edge of said body so that the lever is movable to operate the cams by a finger of the hand in which the gage is held.

2,588,659
HIGH-VOLTAGE SUPPLY
Wallace A. Pond, River Grove, Ill., assignor to Radio Corporation of America, a corporation of Delaware
Application March 22, 1951, Serial No. 216,925
2 Claims. (Cl. 315—17)

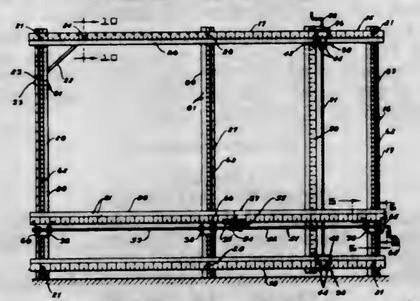


1. A high voltage power supply for an electrostatically focused cathode ray tube comprising a focus electrode, said high voltage power supply comprising a transformer, an inductance voltage divider comprising two inductance elements, means connecting said inductance voltage divider to said transformer, a rectifier having two electrodes, means connecting an electrode of said rectifier to a point on said inductance voltage divider intermediate to said inductance elements, means connecting the other electrode of said rectifier to said focus electrode, and means to alter the ratio of the inductances of said inductance elements.

2,588,660
MOLDING COMPOSITIONS
Arthur F. Roche, Freeland, and Raymond M. Price, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application March 31, 1950, Serial No. 153,301
5 Claims. (Cl. 260—33.2)

1. A molding composition comprising as its principal component, a solid thermoplastic monovinyl aromatic resin and, uniformly incorporated with said resin, a polyethylene glycol having a molecular weight between 200 and 1200 in amount corresponding to from 5 to 10 per cent by weight of the combined weight of the polyethylene glycol and the resin.

2,588,661
CURTAIN STRETCHER
Forest R. Ruby, Detroit, Mich.
Application August 26, 1946, Serial No. 693,133
1 Claim. (Cl. 45—24)

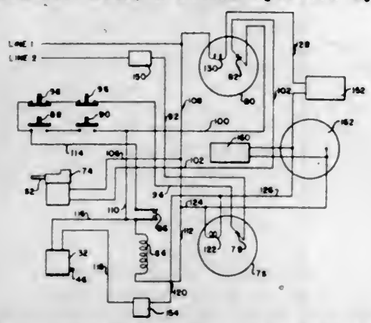


Apparatus for stretching fabrics comprising pairs of side and end members secured together at their extremities to form a frame with the members of one pair overlapping those of the other, said members having longitudinal grooves therein with the grooves of the rear pair in the front faces thereof and those of the front pair in their rear faces, a rack secured within the grooves of each member and extending for substantially the full length of the latter, a side bar extending transversely of the end frame members and slidably supported thereon, a shaft rotatably supported on the side bar and extending lengthwise of the latter, pinions secured to said shaft and respectively meshing with the teeth of the racks secured to the end frame members, an end bar extending at right angles to the side bar and supported on the side frame members for sliding movement lengthwise of the latter, a shaft rotatably supported on the end bar and extending longitudinally of the latter, and a pair of pinions fixed on the second shaft respectively meshing with the teeth of the racks secured to the side frame members.

2,588,662
AUTOMATIC CONTROL FOR MOLDING PRESSES
Gordon B. Sayre, Boonton, N. J., assignor to Boonton Molding Company, Boonton, N. J., a corporation of New Jersey
Application May 14, 1947, Serial No. 748,062
19 Claims. (Cl. 18—16)

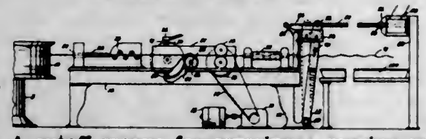
4. Automatic press control mechanism comprising a main air-operated three-way hydraulic valve for controlling the press cylinder, an automatic high pressure valve and a high pressure supply line connected to said main valve, a check

valve and a low pressure supply line connected to said main valve, a solenoid-operated three-way air valve for controlling the aforesaid main valve, an electrical circuit including a timing clock and a breather clock for controlling the operation of said solenoid-operated valve, a cam moved by said breather clock, a switch operated by said



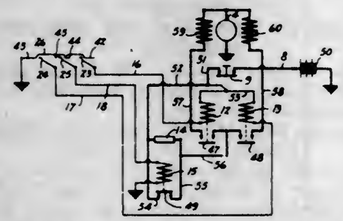
cam to momentarily "bump" the press after a desired initial curing interval determined by said breather clock, said clocks operating independently but having contacts so arranged in a common circuit that the breather clock will control the main valve independently of and during operation of the timing clock.

2,588,663
FORMING MACHINE
Edward H. Schane, Lakewood, Ohio, assignor to Fanner Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 29, 1945, Serial No. 631,605
5 Claims. (Cl. 164—43)



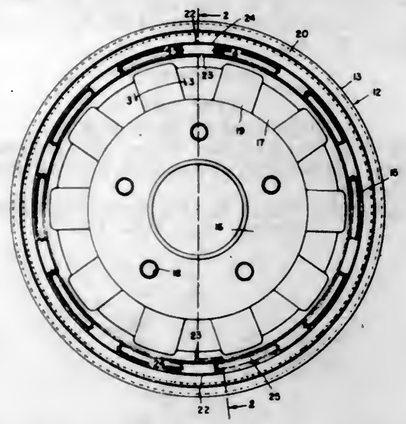
1. A cutoff means for severing a moving wire including a support, guide means for guiding said wire through the support, a pair of cam plates formed with cam tracks carried by the support, a member movable between said cam plates, a cutoff carried by said movable member and having means extending into said cam tracks, said cutoff being movable by said cam tracks to cut off said wire when the member moves between the cam plates.

2,588,664
DRIVE CONTROL FOR MOTORIZED HAND LIFT TRUCKS
Irvin F. Schreck, Cleveland Heights, Ohio
Application September 27, 1946, Serial No. 699,691
3 Claims. (Cl. 318—386)



1. In a truck of the character described, an electric truck propelling motor having forward and reverse windings, a resistance in series with said windings, means including a normally closed switch for short circuiting said resistance, a manually operable control member mounted for movement away from and back to a neutral position, spring means biasing said member toward neutral position, means controlled by said member when moved in one direction from neutral position to energize one of said windings and when moved in the opposite direction to energize the other of said windings, and means controlled by said member when moved in either direction from neutral position to first open said switch to connect said resistance in the circuit of the energized motor winding to operate the motor at slow speed and then to close said switch to short circuit said resistance to increase the speed of the motor, said switch being reopened to reinsert said resistance in the circuit of the energizing winding during the return movement of said member to reduce the speed of the motor prior to stopping.

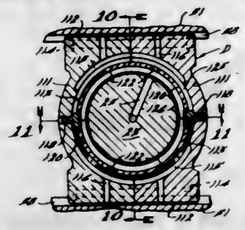
2,588,665
BRAKE DRUM
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application March 15, 1948, Serial No. 14,900
4 Claims. (Cl. 188—218)



4. A brake drum comprising a back and an annular brake engaging member on said back, said back having an annular portion radially inwardly of said brake engaging member provided with angularly spaced circumferentially extending slits arranged in pairs with the parts between the slits of each pair axially offset and having their edges at the slits in close proximity to the parts at the opposite sides of the slits.

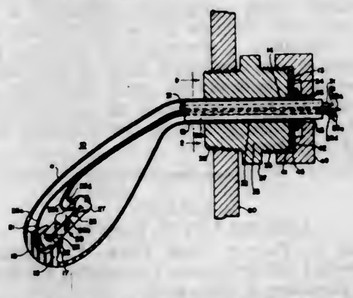
2,588,666
PISTON ASSEMBLY
Arthur J. Siemmons, Highland Park, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application March 10, 1949, Serial No. 80,729
15 Claims. (Cl. 184—6)

15. In combination, a crankpin having an oil supply bore extending therethrough, a perforated bearing shell mounted concentrically about and spaced from said crankpin, and a bearing block structure mounted on said bearing shell and adapted to be slidably connected between a pair of spaced slideways comprising a pair of complementary bearing block portions, each bearing block portion having a pair of spaced parallel ends provided with surfaces adapted to be slidably engaged with said slideways and a side face, said side face being formed with an opening providing a journal surface to seat a portion of said crankpin bearing shell, means connecting said bearing block portion together, anchor pin means mounted on the journal sur-



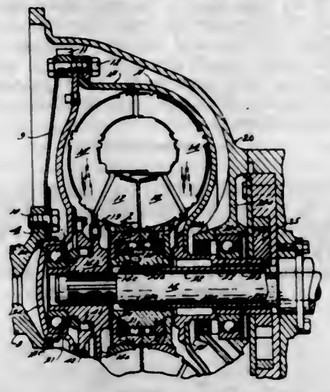
face of each bearing block portion adapted to non-rotatably support said bearing shell on said bearing block structure in spaced relation to the crankpin journal surface formed therein, lubricant receiving channels formed along the crankpin journal surfaces of said block portions, and bores connecting said lubricant receiving channels to the bearing surfaces on the block ends.

2,588,667
FLOAT OPERATED CONTROL
Warren S. Stutzman, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application September 10, 1949, Serial No. 114,968
5 Claims. (Cl. 200—84)



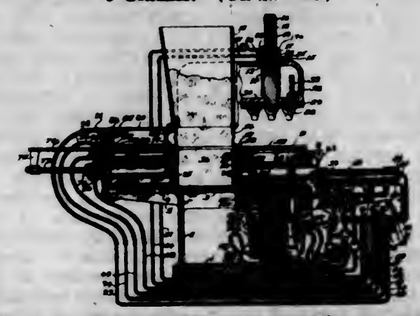
1. A float comprising a main body portion of a rubber material and having a slender tube-like portion at the opposite extremity integral with the main body portion and of the same material terminating in a flared opening, a control device operable upon tilt positioned within said main body portion of said float, means within said float for mounting said control device, a rod-like member including a plurality of conductors and a filling tube positioned in and sealed within said tube-like portion and extending beyond the flared opening at one extremity and into said main body portion at the other extremity, said conductors of said rod being connected to said control device, said flared end of said float being adapted to be secured between portions of a multi-part coupling which in turn is adapted to be threaded into a wall of a boiler within which a fluid varies in quantity and pressure, and means including said tube and said coupling for sealing said float in a slightly inflated condition with a pressure comparable to the pressure within the boiler, said float being adapted to pivot about a part of said tube-like portion of said float to operate said control device.

2,588,668
FLUID COUPLING MOUNTING
Augustin J. Syrovy, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application February 23, 1949, Serial No. 77,939
13 Claims. (Cl. 60—54)



11. In combination, a rotatable shaft, a rotatable fluid power transmitting unit aligned with said shaft comprising a flexible casing member enclosing driving and driven elements, a flexible drive transmitting means drivingly connected between said shaft and said casing member, and telescopically arranged, axially aligned, slidably interengaged portions on said shaft and said casing member arranged to maintain alignment of said shaft and casing member while providing means for axial shift of portions of said casing member relative to said shaft.

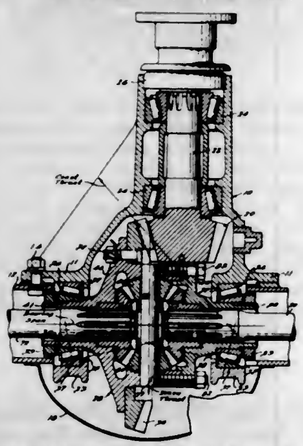
2,588,669
MACHINE FOR FORMING MOLDS
Russell W. Taccone, North East, Pa., assignor to Taccone Pneumatic Foundry Equipment Corporation, North East, Pa., a corporation of Pennsylvania
Application May 9, 1949, Serial No. 92,213
9 Claims. (Cl. 22—35)



4. A molding machine for forming a mold in a mold box having an open top and bottom, said machine comprising a table, a slidable sand receiving member having an open top and bottom supported on said table, means for positioning and releasably retaining a mold box on said slidable sand receiving member as the latter is moved from one position to another, a sand hopper and a vertically reciprocable pattern support disposed above said slidable sand receiving member and said mold box and aligned with said slidable sand receiving member at different positions of said member, means for moving said slidable sand receiving member and said mold box mounted

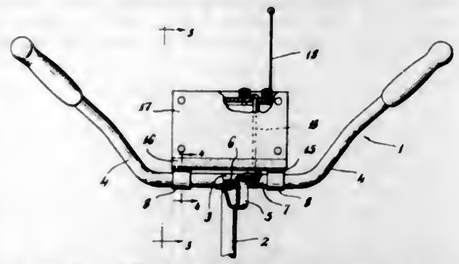
thereon as a unit along said table from a position underneath said sand hopper to a position underneath said pattern support, means for reciprocating said pattern support to position a pattern connected thereto in said mold box, a plunger in vertical alignment with said pattern support and movable upwardly in said slidable sand receiving member to ram sand into said mold box mounted on said slidable sand receiving member, means for reciprocating said plunger, means for releasing said mold box from said slidable sand receiving member and means for moving said slidable sand receiving member to a position underneath said sand hopper.

2,588,670
DIFFERENTIAL BEARING ARRANGEMENT
Sydney L. Terry, St. Clair Shores, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 21, 1948, Serial No. 22,407
12 Claims. (Cl. 74—713)



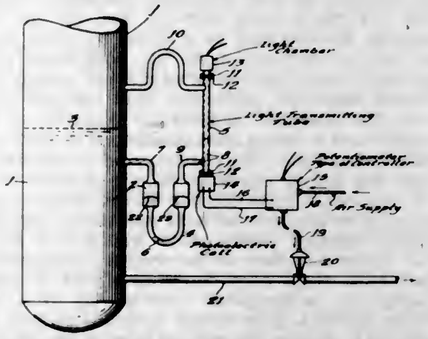
1. An axle assembly comprising a differential carrier, a driving pinion journaled in said carrier for rotation about an axis extending longitudinally thereof, a two-piece differential case rotatably mounted on said carrier for rotation about an axis extending transversely thereof, said differential case comprising a cup member carrying a driven gear positioned for driving engagement with said pinion, a side gear journaled in the bottom portion of said cup member, a differential pinion shaft carried by the cup member, the end portions of said shaft being mounted in the side wall portion of said cup member, pinion gears mounted on said pinion shaft, a removable cap member for the open end of said cup member, a side gear journalled in the inner face of said cap member, the gears within said case being interconnected for the transmission of torque, casing bolts connecting said cap member to said cup member, sleeve-like neck portions carried by the casing cup and cap members arranged to extend transversely to said carrier member, and spaced roller bearing assemblies mounted on said carrier and positioned on opposite sides of said driven gear so as to rotatably support the neck portions of said case, the said bearing assemblies including concentrically arranged inner and outer races having roller bearings mounted therebetween and arranged so that the bearings of each assembly converge towards the driven gear, the outer races of said bearing assemblies being fixedly connected to carrier member and the inner races being connected to the neck portions of said case for rotation therewith.

2,588,671
HOLDER FOR RADIO ON VEHICLE HANDLE BARS
Dominick Tringali, Brooklyn, N. Y.
Application August 19, 1947, Serial No. 769,437
1 Claim. (Cl. 224—30)



A carrier for a radio receiving set comprising a flat plate adapted to be secured to a radio, said flat plate containing 3 bolt holes, two rigid plate supporting members, said rigid plate supporting members consisting of a curved metallic portion curved around the opposing handlebars of a bicycle, the opposing end of said rigid plate supporting members being flat and in a horizontal plane, a hole in the flat end of said rigid plate supporting members, a pair of bolts connecting said rigid plate supporting members to said plate at 2 of said plate holes in a line substantially parallel with the plane of the bicycle, handlebars, the bolts serving to connect said radio receiving set to said plate at its upper portion, a flexible plate supporting member containing a pair of bolt holes, one hole being disposed at each end, a bolt passing through one of said bolt holes and a bicycle post serving to secure the flexible plate supporting member to the bicycle post, said flexible plate supporting member being U-shaped, a second bolt passing through the holes at the opposing side of said U-shaped member and connecting said opposing side to the radio supporting plate at a point opposite the point of connection to the plate of the rigid support members.

2,588,672
LIQUID LEVEL CONTROL
William E. Turvey, Oak Park, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application April 27, 1946, Serial No. 665,370
4 Claims. (Cl. 250—218)



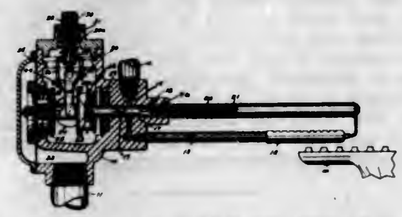
1. A device responsive to liquid level variations in a liquid retaining chamber comprising an elongated light transmitting tube containing a column of semi-opaque liquid, means including a liquid seal for varying the height of the liquid column in said tube directly with liquid level changes in said chamber, a constant light source at one end of said tube, and a light sensitive device at the opposite end of the tube.

2,588,673
ALIGNMENT CLIP
Daniel D. Tyson, Mansfield, Ohio
Application July 8, 1948, Serial No. 37,655
6 Claims. (Cl. 108—33)



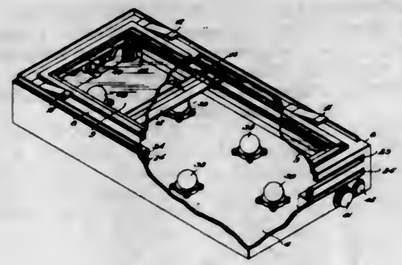
1. An alignment clip for shingles having edges defining a transverse slot therein with two parallel sides and a terminus end, said slot extending from the lower sides of the shingle and terminating inwardly thereof, said alignment clip comprising, an anchor portion tightly securable to the surface of a shingle above the terminus end of the said slot in the shingle, a stem portion extending from the anchor portion to reach the terminus end of the slot, a first hook portion looped back relative to said stem portion and loopable around said terminus end of the slot and extendable under the shingle, and a second hook portion looped back relative to said stem portion on the side of the stem portion opposite said first hook and thereby presenting a hook into which the lower side of another shingle may be inserted, whereby said alignment clip will serve as a means to accurately and automatically align another course of shingles and whereby the lower side of said other shingles will be firmly secured against lifting by wind.

2,588,674
THERMOSTATIC VALVE MECHANISM
Thomas F. Van Denberg, Chagrin Falls, and Carlton W. Bondurant, Euclid, Ohio, assignors to The Titan Valve and Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application January 8, 1947, Serial No. 720,776
7 Claims. (Cl. 137—139)



1. Apparatus of the character described, comprising a magnet couple including cooperating mated magnet and armature members, one fixed and the other movable along a line toward and from its mate, a control device on that side of the movable member remote from the fixed member and spaced therefrom and movable back and forth along the same said line between a first safe and a second operating position and biased toward operating position, the movable couple member being biased toward a retracted position remote from its mate where it obstructs advance of the control device by a force strong enough to overcome the bias on the control device and thus normally maintains said device in its safe position, manually operated reset means biased toward a retracted position and operating in the space between said device and the movable couple member and effective when operated to maintain the device in its first safe position and at the same time to advance the movable couple member to an intermediate position out of obstructing relation to the control device and close to but out of contact with its mate and thus short of holding relation therewith, and means sensitive to a variable condition including a movable part which under one condition prevents and under a second condition permits further advance of the movable couple member by the reset means beyond said intermediate position into holding relation with its mate, the magnetic flux between the couple members being insufficient to overcome the bias upon the movable member when they are closely spaced but out of contact but being sufficient to do so when they are in contact with each other, whereby release of the advanced reset means after occurrence of the second condition permits the biased control device to advance to its second operating position.

2,588,675
ELECTROCOPY APPARATUS
Lewis E. Walkup, Harold E. Copley, and Walter A. Beckdahl, Columbus, Ohio, assignors, by mesne assignments, to The Haloid Company, Rochester, N. Y., a corporation of New York
Application December 7, 1948, Serial No. 63,922
9 Claims. (Cl. 95—1.9)

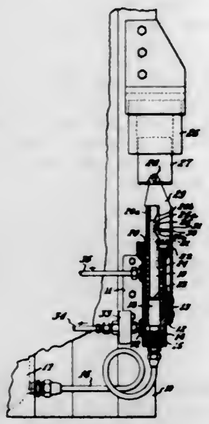


1. Electrocopy apparatus comprising a cabinet having a top wall, a transparent panel in the top wall, lighting means within the cabinet, an electrostatic charging unit located in and movable endwise of the cabinet and including electrostatic charging wires extending transversely of the cabinet, and guideways located in the cabinet below the charging unit to receive a plate.

2,588,676
LUBRICANT PUMP FOR MACHINE TOOLS
John M. Walter, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a corporation of Ohio
Application September 29, 1948, Serial No. 51,726
4 Claims. (Cl. 184—6)

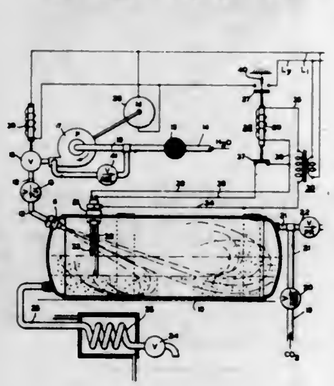
1. In combination with a machine tool having a member movable along ways and having a switch for initiating movement of said member, said machine tool having a lubricant reservoir, a piston pump having a piston rod terminating in a hook element, a solenoid having a plunger terminating in a hook element adapted to engage the hook element on said piston rod, said solenoid being arranged for energization upon actuation of said switch, means biasing said piston rod in opposition to the action of said solenoid, and means for producing disengagement of said hooks

upon a predetermined amount of travel of said plunger, said pump being arranged to receive



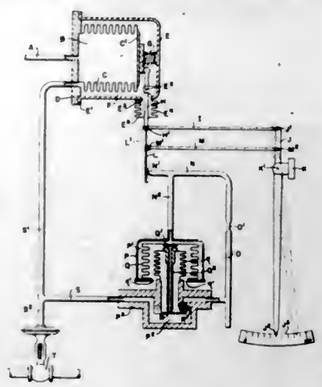
lubricant from said reservoir, and to deliver it between said member and said ways.

2,588,677
AUTOMATIC LIQUID CARBONATOR
Frank Welty and Raymond D. Welty, Youngstown, Ohio, assignors to Carbonic Dispenser, Inc., Canfield, Ohio, a corporation of Ohio
Application February 26, 1948, Serial No. 11,008
11 Claims. (Cl. 261—27)



1. Carbonating apparatus comprising an elongated horizontally disposed tank, means to conduct a gas into said tank, a water injection nozzle extending into one end of said tank in downwardly inclined direction to discharge a compact stream of water into said tank, a motor driven pump for furnishing water under pressure to said nozzle, a liquid level responsive device in control of the operation of said motor driven pump, said nozzle being so positioned that its axis of discharge intersects the surface of the liquid in said tank at a point substantially removed from the peripheral outline of said surface whereby upon operation of said pump the water in said tank is brought to a foaming mass in a recirculating manner into dispersed contact with the gas, and means to withdraw carbonated water from the lower portion of said tank.

2,588,678
MEASURING AND CONTROLLING APPARATUS
Walter P. Wills, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 19, 1947, Serial No. 792,657
4 Claims. (Cl. 137—153)

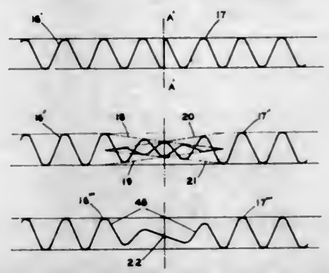


1. Pressure measuring apparatus comprising in combination, a first pressure chamber in which the pressure to be measured is maintained, a second expansible chamber, said chambers being so arranged that the expansion of each is attended by the contraction of the other, and mechanism for maintaining a balancing air pressure in said second chamber which increases and decreases as the first chamber expands and contracts, comprising a bleed nozzle connected through a restricted flow passage to a source of air under pressure and having a bleed orifice, a flapper valve, a support on which said valve is mounted for turning movements about a pivot toward and away from said orifice, first means for adjusting said support to move said pivot back and forth along a predetermined path on and in accordance with the expansion and contraction of said first chamber, and second means for turning said valve about said pivot on and in accordance with the expansion and contraction of said chamber, said valve support, nozzle and first and second means being so relatively arranged that the alternate movements toward and away from said orifice which the first and second means individually tend to give the valve, are in opposite directions and of slightly different magnitudes.

2,588,679
PURIFICATION OF GENTISIC ACID
Bill M. Williams, Luther F. Berhenke, and Floyd L. Beman, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application August 17, 1950, Serial No. 180,102
9 Claims. (Cl. 260—525)

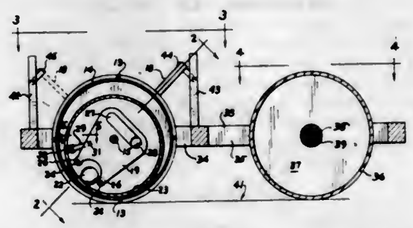
1. A method of recovering substantially pure gentisic acid from an aqueous solution comprising, as essentially the only organic solutes, salicylic acid, a 5-halosalicylic acid, and gentisic acid, which comprises extracting the aqueous solution with a liquid polychloroalkane containing from one to two carbon atoms per molecule until essentially all the salicylic acid and 5-halosalicylic acid have been removed from the aqueous phase, extracting the resulting raffinate with a water-immiscible solvent for gentisic acid to withdraw substantially all the gentisic acid from such raffinate, and removing the solvent from the resulting water-immiscible extract to recover gentisic acid in purified form.

2,588,680
ELECTRONIC TONE GENERATOR
Richard E. Williams, Manchester, N. H., assignor to Wilbespan Research Labs, Inc., Manchester, N. H.
Application February 3, 1949, Serial No. 74,388
16 Claims. (Cl. 84—1.18)



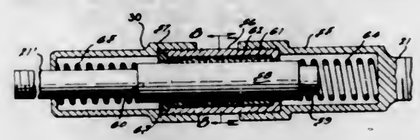
1. In a photoelectric tone generator having a cycling light-modulating tone screen, the method of minimizing detrimental audio manifestations resulting from phase or amplitude discrepancies in the light-modulating characteristics of said tone screen and detrimental pitch characteristics resulting from cyclic speed variations of said tone screen, which comprises cycling said tone screen at such a rate that said detriments of phase, amplitude, and pitch recur at a natural vibrato rate.

2,588,681
GRAVITY DRIVE
George Wixson, Garden City, Mich.
Application February 26, 1951, Serial No. 212,724
7 Claims. (Cl. 280—217)



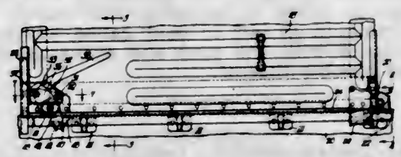
1. A gravity drive mechanism comprising a hollow wheel having an outer annular coaxial surface, a relatively stationary axle upon which said wheel is journaled, a hoop eccentrically positioned within said wheel and bearing upon the interior of said annular surface, a control arm secured to said axle and having a bifurcated outer end adjacent said hoop, a spherical weight loosely retained within said bifurcation, and a lever secured at one end to said axle exteriorly of said wheel whereby an angular rotary movement of said lever and axle rolls said weight forwardly and upwardly upon said hoop, whereby upon retaining said weight in its elevated position its vertical component is directed toward said annular surface in advance of said axle to cause a forward rolling motion of said wheel.

2,588,682
SHOCK ABSORBER
Nathaniel Wyeth, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 22, 1946, Serial No. 664,096
2 Claims. (Cl. 267—1)



1. A device for dampening relative longitudinal motion between two members from an initial position, said device comprising a cylindrical housing having one end thereof affixed to one of said members, a cylindrical rod penetrating the opposite end of said housing, said rod being affixed to the other of said members and having a cylindrical portion within said housing provided with an increased diameter forming an abutment at each end of said portion, a tubular element of fibrous friction material fixed within said housing, encompassing said rod portion and engaging said portion under pressure whereby forced relative movement of said members is resisted by friction, and a spring reacting against each of said abutments and said housing adapted to return said rod to its initial position when the force causing movement is absent.

2,588,683
CAR DOOR OPERATING MECHANISM
Kurt E. Zeidler, Chicago, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application February 23, 1949, Serial No. 77,729
5 Claims. (Cl. 16—99)



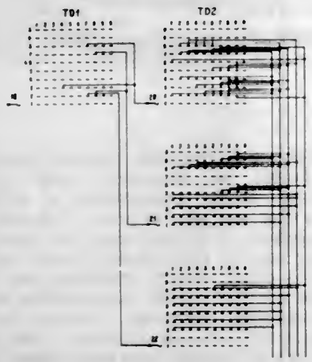
1. In a railway car having a wall with a doorway therein and a track secured to said wall below said doorway; a door movable along said track to close or open said doorway, the portion of said door adjacent the rear edge thereof being inclined to the plane of the remaining portion of the bottom of said door, said remaining portion normally being in engagement with said track, the line of intersection of said portions forming a fulcrum on which said door may rock with respect to said track, a roller supported by the lower rear corner of the door normally out of engagement with said track, and means to support a roller at the lower front corner of said door, said means including a lever adapted to force said last mentioned roller against said track to raise and tilt said door on said fulcrum until the other of said rollers engages said track and becomes a new fulcrum when said first mentioned roller is further forced against said track.

2,588,684

CHARGE RATE CALCULATOR FOR AUTOMATIC TELEPHONY

Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application April 25, 1947, Serial No. 743,963
In Great Britain July 26, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 26, 1959
5 Claims. (Cl. 179—7.1)



1. In a telephone system in which the number of a called station includes one or more zone digits representing the zone thereof and two exchange digits representing the exchange thereof; charge rate determining apparatus comprising a plurality of first wipers, a plurality of first contacts respectively corresponding to different charge rates applicable to connections and accessible to said first wipers, said first wipers selectively operable in two directions to select certain of said contacts in accordance with the two exchange digits of the number of said called station, a second wiper, a plurality of second contacts accessible to said second wiper and connected to different ones of said first wipers, and said second wiper selectively operable to select one of said second contacts in accordance with one or more of the zone digits of the number of said called station in order to establish the charge rate applicable to a call to said called station in accordance with the zone and exchange digits of the number thereof.
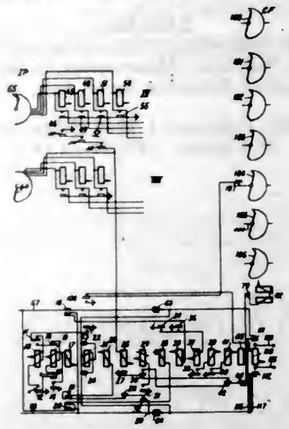
2,588,685

REGISTER-SENDER FOR AUTOMATIC TELEPHONY

Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application April 25, 1947, Serial No. 743,964
In Great Britain July 26, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 26, 1959
5 Claims. (Cl. 179—18)

2. In a telephone system divided into zones having both N and N—1 digit designations, lines in each of said zones having M digit designations, automatic switching apparatus operative to set up connections between said lines, a register sender including a single digit register and a digit sender, means for transmitting a series of digits to said register sender, means for successively operating said digit register to register successive ones of said digits, means governed in accordance with the first N—1 of said digits registered in said register sender for selectively determining whether the Nth of said digits to be registered by said digit register is to be sent, means governed in accordance with the first N of said digits registered by said digit register for selectively establishing one or more routing digits, means for operating said digit sender to send said established routing digit or digits and then



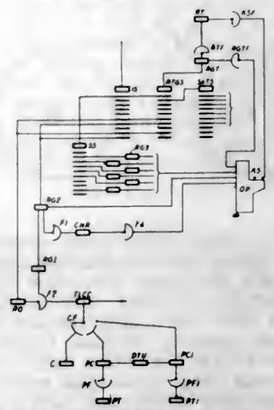
selectively to send the Nth of said digits registered by said digit register depending upon said determination and then to send the following M of said digits registered by said digit register, and means governed by said digits sent by said digit sender for selectively operating said switching apparatus.

2,588,686

TELEPHONE SYSTEM PROVIDING OPERATOR SERVICE WHEN ALL TRUNKS ARE BUSY

Rudolph Frank Stehlik, Antwerp, Belgium, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application May 7, 1947, Serial No. 746,566
In Great Britain April 1, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires April 1, 1960
20 Claims. (Cl. 179—7)



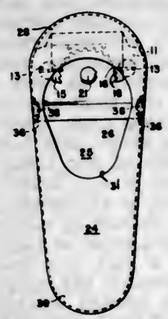
2. In a telephone system including switching apparatus operable to select an idle one of a plurality of trunks in setting up a connection from a calling line to a called line via the selected trunk and storage means controlled incident to the setting up of said connection to store certain items of record information pertaining thereto and including means controlled in the event said connection is completed via said selected trunk to said called line for operating a recorder to produce a record of said stored items; the combination comprising an operator position, means included in said connection and operated responsive to all of said trunks being busy at the time said switching apparatus is operated to select an idle one of said trunks, means governed by said last-mentioned means for automatically extending said connection from said calling line to said operator position, position storage means included in said last-mentioned connection, means controlled incident to the extension of said connection to said operator position for operating said position storage means in accordance with said stored items of information, an indicator, means operated responsive to the answer of said connection at said position, and means governed by said last-mentioned means for automatically controlling said indicator to indicate said items of information stored on said position storage means.

2,588,687

BOTTLE OPENER WITH CAP RECEIVER

Davis J. Ajouelo, Atlanta, Ga.

Application February 12, 1948, Serial No. 7,929
3 Claims. (Cl. 81—3.1)



1. A bottle opener comprising a supporting bracket for attachment to a wall, a crown cap remover carried by said bracket, a casing having a flat back provided with an opening shaped to surround said bracket, and means for attaching said casing to said bracket so the back side is flush with the wall, said casing having a rounded front provided with an opening through which a bottle may be inserted to said cap remover, the bottom of said casing forming a receptacle for receiving removed caps.

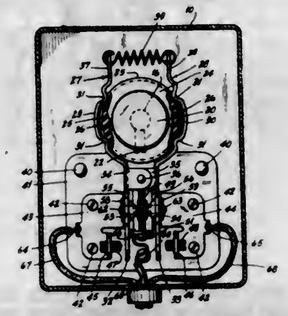
2,588,688

THERMOSTATICALLY ACTUATED SWITCH

William J. Allan, Richmond Heights, Mo., assignor to Missouri Automatic Control Corporation, St. Louis, Mo., a corporation of Missouri

Application November 30, 1949, Serial No. 130,130
5 Claims. (Cl. 200—138)

3. In a thermostatic switching device, a circular friction clutch member, a thermostatic element for rotating said member oppositely in response to directional temperature change, a clutch band assembly comprising a pair of clutch band members having arcuate portions adapted to frictionally engage opposite portions of the periphery of said circular member, said band members being pivotally connected so as to open and close with relation to said circular member, each of said band members having a portion extending laterally of the axis of said circular member and on the other side of their pivoted connection, said laterally extending portions lying alongside each other, resilient means normally urging said band members into frictional engagement with said disc member, switch structure including a contact arm disposed between said laterally extending portions and arranged



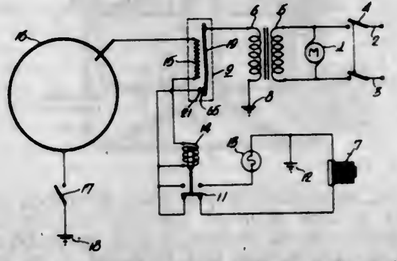
to be alternately engaged by the inside surfaces thereof for the actuation of the switch as said circular member is rotated oppositely, and stop means arranged so as to be engaged by the outside surfaces of said laterally extending portions when said disc member is rotated in either direction beyond that amount necessary to actuate the switch.

2,588,689

STOP MOTION

Michael Antonevich, New Brunswick, N. J., assignor to The Crawford Manufacturing Company, Incorporated, New Brunswick, N. J., a corporation of New Jersey

Application April 13, 1950, Serial No. 155,768
10 Claims. (Cl. 66—157)



1. In an electric stop motion, a transformer fed detector circuit including a secondary element of said transformer and a normally open detector switch controlling flow of current in the circuit and in said transformer element, said circuit including also a make-and-break device operative automatically when the detector switch is closed to intermittently interrupt the flow of current in the transformer element.

2,588,690

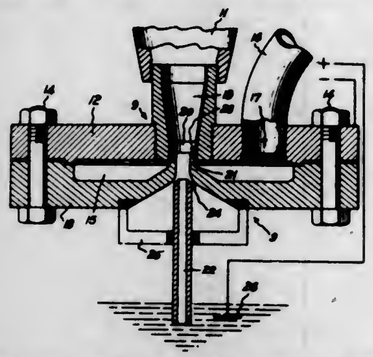
APPARATUS FOR THE MANUFACTURE OF GLASS WOOL AND OTHER FILAMENTOUS LIQUEFIABLE SOLID MATERIALS

Ian Wilson Archibald, Sydney, New South Wales, Australia, assignor to James Hardie & Coy. Pty. Limited, Sydney, New South Wales, Australia, a company of New South Wales

Application February 9, 1949, Serial No. 75,428
In Australia February 20, 1948
10 Claims. (Cl. 18—2.5)

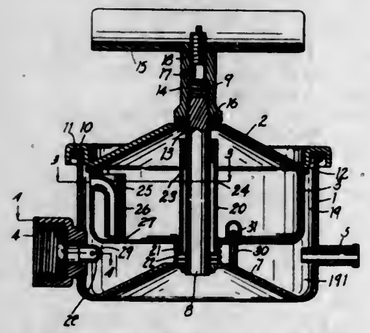
1. Apparatus for producing a filamentous mass of liquefiable solid material comprising, an up-

right feedpipe, means for holding the bottom end of said feedpipe submerged in a body of said material in molten condition, a Venturi



nozzle into the throat end of which the upper end of said feedpipe is directed, and means for passing a gaseous updraft through said nozzle and about the upper end of said feedpipe.

2,588,691
MATERIAL DISSOLVER AND DISTRIBUTOR
Irving E. Aske, Muskegon, Mich.
Application August 17, 1949, Serial No. 110,752
14 Claims. (Cl. 299—84)



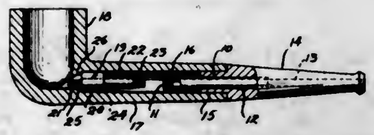
1. An apparatus of the class described comprising a tank open at the top and having a springable convex bottom, a post mounted centrally on said bottom and threaded at its upper end, a cover adapted to seat on the rim of the tank and having an annular inwardly facing receptacle seat and an opening therein receiving said post, a nut threadedly engageable with said post, an open top receptacle provided with a central tubular sleeve receiving said post, a spring acting to yieldingly urge the rim of the receptacle against the said receptacle seat on said cover, said receptacle being spaced from the bottom of the tank and from the side wall thereof providing a mixing chamber below the receptacle and an annular space surrounding the receptacle open to said mixing chamber, a suction passage opening to said mixing chamber, a supply connection for fluid under pressure opening to the tank exteriorly of the receptacle and directed to induce a swirling movement of liquid in the mixing chamber and in the annular space and across the outlet of the suction passage, a make-up liquid connection for said receptacle to said tanks, means facilitating the positioning of the receptacle within the tank with its suction at the side of the tank having such liquid supply connection, and a discharge for said tank.

2,588,692
PEN CLIP
Ernest Bartlett, Calgary, Alberta, Canada
Application July 5, 1949, Serial No. 103,090
2 Claims. (Cl. 24—11)



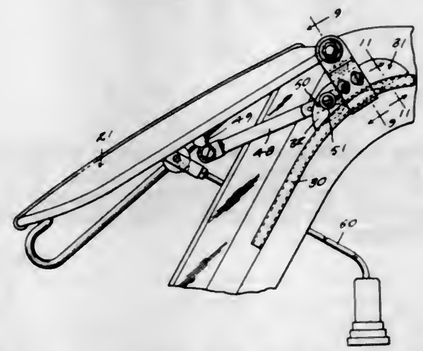
1. A safety clip for pens and like pocket implements comprising in combination with such implement, a resilient stem attached by one end to the said implement and lying spaced from and substantially parallel thereto, said stem being notched at its free end centrally of its sides; and an L-shaped clamping member swingingly mounted intermediate its ends in the notched free end of said clip stem and rotatable through part of a revolution from "free" to "clamping" position and vice versa; said L-shaped clamping member consisting of two arms, namely an upper clamping arm and a lower handle arm lying in such planes at an obtuse angle to one another, and being limited by engagement with opposite sides of said stem at said notch to rotating through but a part of a revolution whereby in "clamping" position the upper clamping arm is pressed tightly toward the implement by the resilient stem and the lower handle arm is held in spaced relation outwardly therefrom; while in "free" position, with the resilient stem unsprung, the depending clamping arm flares outwardly away from the implement.

2,588,693
SMOKING PIPE
Sherman F. Bowles, San Antonio, Tex.
Application August 17, 1946, Serial No. 691,304
3 Claims. (Cl. 131—184)



1. A smoking pipe comprising in combination, a bowl and stem portion formed with a longitudinally extending bore, a mouthpiece separably connected to said stem portion and provided with a continuation of said bore, a tube removably received in the bore of said mouthpiece and projecting into the bore of said stem portion in concentric spaced relation thereto, and a cleaning member comprising a shank disposed in spaced concentric relation in the bore, said shank being provided with a substantially frusto-conical head slidably fitted in the bore, said bore being formed with a seat adjacent the entry thereof into said bowl, said head and shank having a longitudinal bore therethrough, said head being engageable with said seat, said head being provided with a plurality of smoke passages, said tube and the shank being spaced from each other and having means carried on their adjacent ends for detachably coupling together, said tube projecting a greater distance beyond the end of the stem portion remote from the bowl than the shank and the tube are spaced apart.

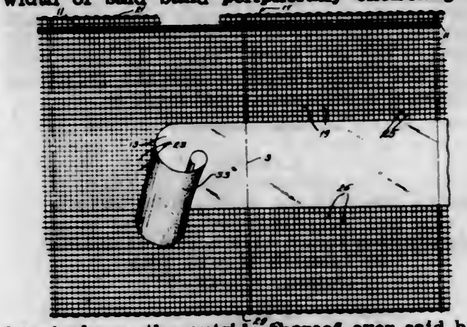
2,588,694
SUN VISOR FOR AUTOMOBILES
William A. Bracken, Levy, Ark.
Application January 12, 1950, Serial No. 138,133
2 Claims. (Cl. 296—95)



2. A sun visor for mounting on the forward side of the windshield of a vehicle and attachment to the gutters, said visor comprising a pair of elongated visor plates, means securing the inner ends of the plates together, a cushion means at the inner ends of said plates adjacent the rear thereof, a threaded stud projecting outwardly from the outer end of each plate adjacent the rear edge thereof, a bracket means engaging each stud and the gutter, said bracket means comprising inner and outer gutter clamping plates, means securing said plates together in clamping position, an inwardly projecting extension carried by one of said plates, an angle member having one side thereof overlying said extension and the other side projecting forwardly and formed with an opening, means securing said extension and said one side of said angle member together, a nut on each stud holding the stud in said opening, and a brace connected between the other of said clamping plates and the adjacent end of one of said visor plates, said other clamping plate having an elongated opening through which the securing means for said brace engages whereby said visor plates may be angularly adjusted with respect to the windshield.

2,588,695
LABELED OPEN-MESH BAG
Charles V. Brady and August F. Ottinger, St. Louis, Mo., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application December 4, 1948, Serial No. 63,548
8 Claims. (Cl. 150—1)

1. A bag comprising a bag body of open-mesh fabric which is characterized in having been woven so as to have a band wherein the yarn count, as to those yarns which extend lengthwise of the band, is substantially less than the yarn count in the remainder of the fabric, and a label strip having a width corresponding to the width of said band peripherally encircling the



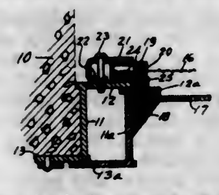
bag body on the outside thereof over said band and adhesively secured thereto.

2,588,696
FILM DEVELOPING APPARATUS
Alpha N. Brown, Kansas City, Mo.
Application December 8, 1947, Serial No. 790,352
1 Claim. (Cl. 95—100)



A holder for roll film comprising a pair of identical, elongated members, each member being U-shaped in cross-section, presenting a pair of legs; a plurality of cross bars on one side of the members and joining proximal legs of the opposite U-shaped members for holding the members in spaced opposed parallelism; a plurality of U-shaped elements on the other and opposite side of the members and joining the opposite legs thereof, said elements being offset along the members relative to the cross bars, said opposite legs having portions outwardly rebent with respect to the elongated member and opposite each other thereby presenting a pair of opposed V-shaped channels coextensive in length with the members, the distance between the apexes of the channels being substantially the same as the width of a film to be held thereby whereby the latter is frictionally gripped along the marginal edges thereof, the bights of said elements being spaced outwardly from said channels; a plate carried by the members at one end thereof having a film-receiving prong thereon; and a hook on one of said U-shaped elements adjacent said one end of the members for supporting the holder and the film carried thereby.

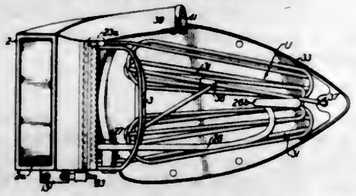
2,588,697
WEATHERSTRIP FOR METAL CASEMENT WINDOWS
Donald J. Burch, Denver, Colo.
Application July 9, 1951, Serial No. 235,726
3 Claims. (Cl. 160—40)



1. A combined window screen and air and dust seal for use with metal casement windows, com-

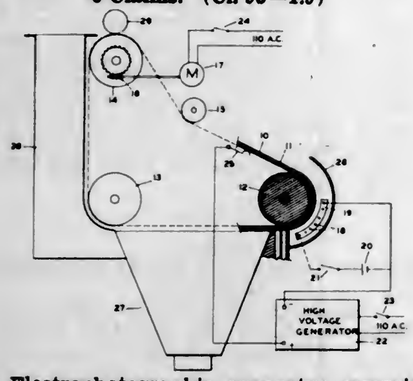
prising, a screen frame of elongated U-shape cross section arranged with the opening facing inwardly to receive the edges of a wire screen, and a resilient dust-seal strip secured to the inner surface of the said screen frame, the inner edge of the seal strip having a laterally projecting rib forming a deformable seal member.

2,588,698
STEAM IRON
Lance Noel Butcher, Surrey Hills, Victoria, Australia
Application June 5, 1950, Serial No. 166,260
In Australia May 23, 1949
2 Claims. (Cl. 38—77)



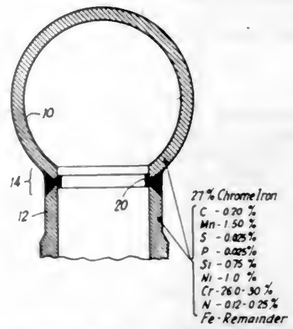
1. In a steam iron having a sole plate and a heating element associated therewith, a steam generating unit comprising a pair of sections of tubing arranged on the sole plate and in heat transfer relationship with the heating element, said sections being arranged on opposite sides and along the length of the iron in spaced relationship, a water inlet tube connected to one end of each of the sections of tubing, and a steam outlet tube connected to the sole plate and to the other end of each of the sections of tubing whereby the tube sections are connected in parallel with the water inlet tube and the steam outlet tube.

2,588,699
ELECTROPHOTOGRAPHIC APPARATUS
Chester F. Carlson, Fairport, N. Y.
Original application August 27, 1943, Serial No. 500,207. Divided and this application February 26, 1951, Serial No. 212,812
6 Claims. (Cl. 95—1.9)



1. Electrophotographic apparatus comprising, in combination, an electrophotographic element having a layer of photo-conductive insulating material on a conductive base, and means for applying a uniform electrostatic charge to the surface of said layer, said means comprising an ion producing source, means for moving said element relative to said source to bring all areas of said layer under said source, and means to apply an electric field between said source and said conductive base.

2,588,700
WELDED JOINT
Otis R. Carpenter, Barberton, Ohio, assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application July 26, 1945, Serial No. 607,173
4 Claims. (Cl. 189—36)



1. An installation for use involving a corrosive fluid at steel embrittlement temperatures (600 F.–1000 F.) and comprising corrosion resistant steel components having substantially the following composition

	Percent
C	0.20
Mn	1.50
S	0.025
P	0.025
Si	0.75
Ni	1.0
Cr	26.0–30.0
N	0.12–0.25

balance iron and the usual impurities; and duplex metal welds uniting said components and each comprising a root deposit of a steel which, on quick cooling from temperatures above 1250 F., will retain its maximum resistance to corrosion without excessive increase in hardness and without excessive reduction in ductility, said steel having a chromium content of the order of that of said components and a nickel content of the order of 4%; and a deposit overlying said root deposit and filling the remainder of the weld groove and of a steel which can be cooled quickly from 1375 F. or below without appreciable hardening but which will harden when cooled quickly from above 1375 F., and which has good ductility when quenched from 1375 F., said last-named steel having substantially the following composition

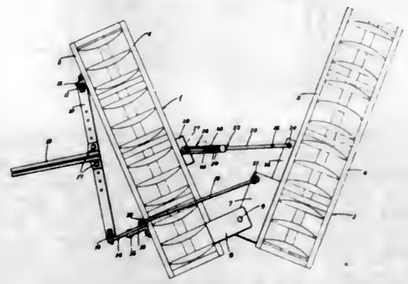
C	0.08%	Max.
Mn	from 0.40 to 0.60%	
Si	from 0.40 to 0.60%	
Cr	from 6.00 to 8.00%	
Mo	from 0.40 to 0.60%	
S	0.025%	Max.
P	0.025%	Max.

balance iron and the usual impurities.

2,588,701
DISK GANG ADJUSTING MECHANISM
Einar P. Cook, Clovis, Calif.
Application July 22, 1946, Serial No. 685,315
2 Claims. (Cl. 55—81)

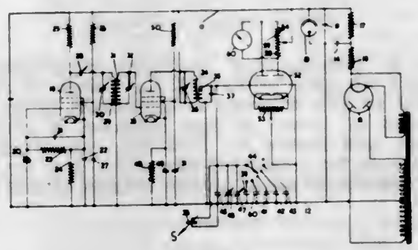
1. Disc gang adjusting mechanism for a tandem disc gang harrow which includes front and rear gangs pivoted adjacent one end thereof for movement between a parallel transport position and an angled working position; said mechanism comprising a transverse drawbar disposed ahead

of the front gang, a draft tongue secured to the drawbar intermediate its end and projecting forwardly, means pivoting the drawbar at one end to the front gang for relative swinging motion in a horizontal plane, and motion transmitting means between the opposite end of the drawbar and the rear gang operative to shift the gangs to transport or working position upon relative swinging motion of the draw bar in one direction or the other, respectively; said motion transmitting means comprising a vertically up-standing swing lever disposed adjacent said opposite end of the draw bar, means pivoting the swing lever intermediate its ends in connection with the



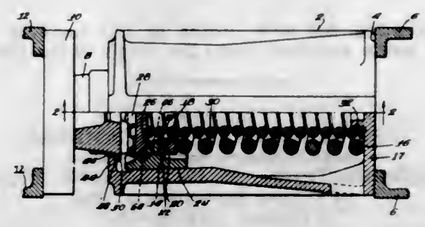
front gang for swinging motion in a plane generally lengthwise of the implement, means pivotally connecting said opposite end of the draw bar with one end of the swing lever, and a link pivotally connected between the other end of the swing lever and the rear gang laterally inwardly of the pivot of said gangs; the drawbar being connected to the lower end of the link to the upper end of the swing lever, the latter inclining upwardly and forwardly from its lower end when the gangs are in parallel transport position, and inclining upwardly and rearwardly when the gangs are in angled working position, the drawbar then diverging relative to the front gang in the direction of said lever.

2,588,702
MEASURING INSTRUMENT RESPONSIVE TO CAPACITY VARIATIONS
James Richard Cornelius, Coventry, England
Application April 14, 1950, Serial No. 156,026
In Great Britain May 31, 1949
3 Claims. (Cl. 175—183)



1. Means for measuring the capacitance of a variable capacitor, including an oscillator valve the output at the anode of which is of constant frequency, a quartz-crystal for regulating said oscillator valve, a tank circuit combined with said oscillator valve for filtering out a selected harmonic, and an amplifying circuit to which the selected harmonic is fed and which includes a voltage amplifier and a temperature compensating filter, the latter comprising a primary section of small inductance and large capacitance, and a secondary section of smaller inductance and larger capacitance as compared with the primary section, the inductances and capacitances of the two sections respectively being arranged for any variations due to temperature changes to be opposed, and said secondary section including said variable capacitor.

2,588,703
DRAFT GEAR
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 1, 1949, Serial No. 78,965
5 Claims. (Cl. 213—34)

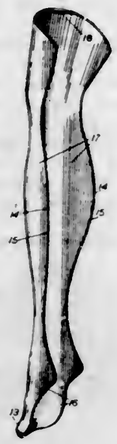


1. A draft gear comprising a housing having an open end and a closed end, a plurality of friction shoes in said housing, outer follower means projecting into said open end in wedge engagement with said shoes, spring means in said housing compressed against said closed end and reacting against said shoes for urging them outwardly of said open end into said engagement with said follower means, whereby said shoes are urged into frictional engagement with said housing, spaced stop surfaces in said housing, spaced stop lugs on said follower means engageable with respective surfaces by the reaction of said spring means against said shoes, said lugs being adapted upon rotation of the follower means on the longitudinal axis of the housing to pass between said surfaces accommodating unrestricted movement of the follower means outwardly from the open end of the housing, said lugs being engageable with the housing surfaces along diagonal converging areas to center the follower means within the housing and to positively restrain rotation of the follower means on said axis.

2,588,704
DISPLAY FORM FOR HOSIERY
William Jack Cox, London, England, assignor to William J. Cox Limited, London, England, a British company
Application October 31, 1949, Serial No. 124,606
In Great Britain January 7, 1949
2 Claims. (Cl. 223—75)

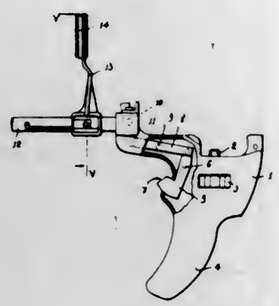
1. A hosiery display form comprising a one-piece channel member of U-shape cross section transverse to its length and having along the base of the channel an exterior shape simulating in three dimensions the shape of the front of a human leg, ankle and foot from the thigh to

the toe, and the free longitudinal edges of the sides of said channel member having a contour



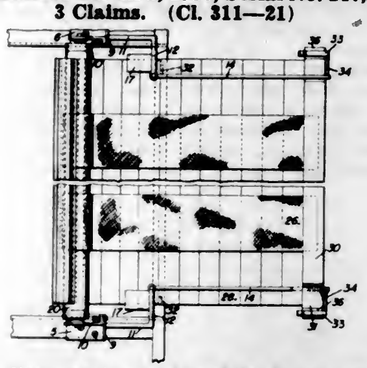
simulating the side profile of the back of the leg, ankle and foot, from the thigh to the toe.

2,588,705
CARRIER HANDLE FOR CAMERAS
Roger Cuchet, Nancy, France
Application October 25, 1949, Serial No. 123,317
In France September 9, 1949
4 Claims. (Cl. 95—86)



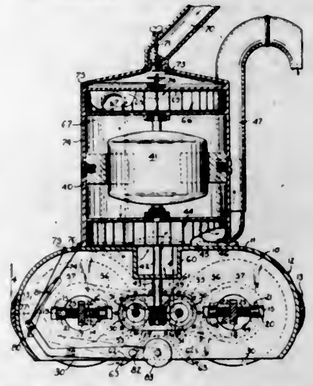
1. A camera holder comprising a handle, means to attach the camera to said handle, said handle being provided with a hollow extension forwardly projecting from the upper portion of said handle, a system of pivotally connected levers in said extension, a trigger projecting from said handle into the reach of the operator's hand operatively connected with the lower end lever of said lever system, a rod connected with the upper end lever of said lever system extending with its free end laterally beyond said handle and adapted to operate a shutter release means, a circular bar rigidly attached to said hollow extension and forwardly projecting from the same, a longitudinal groove in said bar, a screen and a screen supporting member slidably and rockably supported on said bar, a projection stud carried by said screen supporting member radially extending relative to said bar and a spring surrounding said projection stud to urge the same into engagement with said groove.

2,588,706
DISAPPEARING TABLE FOR AUTOMOBILE INSTRUMENT PANELS
Neuman T. Davis, Plainview, Tex.
Application March 2, 1950, Serial No. 147,258
3 Claims. (Cl. 311—21)



1. A disappearing automobile table comprising a flexible top constructed of rigid slats and a flexible tape connecting the slats to each other, brackets adapted for attaching under the instrument panel of an automobile, a spring roller mounted in the brackets and connected to one end of the top for winding thereon, and foldable arms pivoted to the brackets and swingable horizontally into and out of a forwardly projecting position in spaced parallel relation to each other, said arms having longitudinal slots slidably supporting the side edges of the top.

2,588,707
FLOOR SANDER
George F. Dwyer, Branford, Conn.
Application March 9, 1949, Serial No. 80,443
14 Claims. (Cl. 51—176)

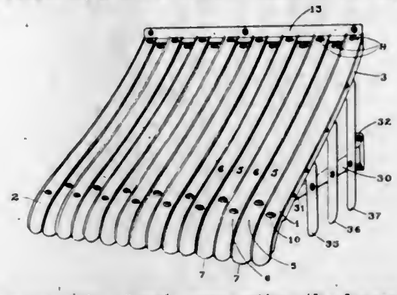


1. A floor-sanding machine comprising a frame, an axle pivoted to the frame to swing about an axis disposed longitudinally of the direction of travel of the machine, a sanding drum, and means for mounting said drum on said axle for rotational movement and for pivotal movement about an axis parallel to said first axis.

2,588,708
METAL AWNING STRUCTURE
Dwight A. Elliott, Richmond, Ind.
Application December 1, 1947, Serial No. 789,026
7 Claims. (Cl. 20—57.5)

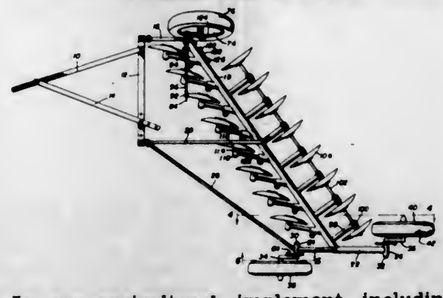
1. A metal awning structure comprising a plurality of resilient metal strips of aluminum

bowed between their ends and provided with upturned edges the combined width of the strips being greater than the width of the awning, an upper frame member having adjacent parts arranged at different levels supporting the upper ends of the strips with alternate strips at different levels and with their edges in overlapping relation, a lower frame member having two



strip supporting levels supporting the lower ends of the strips in the same position relative to each other as at the upper end with the portions of the strips between the upper and lower ends unrestrained against flexing in planes perpendicular to the planes of their surfaces, and means securing the ends of the strips to their respective frame members.

2,588,709
DISK HARROW
Hubert Lee Elliott, Aline, Okla.
Application June 6, 1947, Serial No. 752,977
1 Claim. (Cl. 55—73)

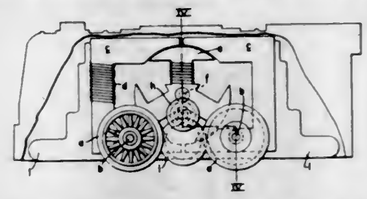


In an agricultural implement including a wheeled frame having a diagonal beam; a plurality of arms projecting laterally from said beam, bearings carried by said arms, a shaft journaled for rotation in said bearings, a set of trailing disks carried by said shaft, a plurality of clamping members fixed to said beam and staggered with respect to said arms, bars adjustable longitudinally in said clamping members and inclined to said beam, sleeves fixed to said bars, a plurality of leading disks having hub portions received in said sleeves, and means carried by said sleeves for retaining the hub portions relative thereto.

2,588,710
ELECTRICALLY OPERATED TOY OR MODEL RAILROAD
Eugen Engelhardt, Lobberich, Germany, assignor to Robert H. Jacob, Milwaukee, Wis.
Application June 13, 1949, Serial No. 98,756
In Germany June 18, 1948
8 Claims. (Cl. 172—36)

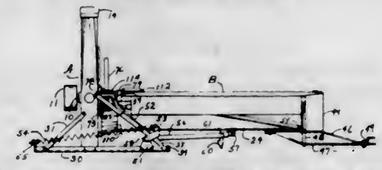
1. An electrically operated toy or model railroad vehicle comprising a motor including a

housing constituting a chassis, a rotor and a field unit, wherein the rotor is journalled in the chassis, wherein the axles of the wheels are dis-



posed in adjacent legs of the field unit and are journalled inside the field unit and wherein the field unit comprises two symmetrical portions disposed one against the other.

2,588,711
BLOWER ELEVATOR
Charles V. Everett, Racine, Wis., assignor to Massey-Harris Company, Racine, Wis., a company of Maryland
Application October 16, 1948, Serial No. 54,959
2 Claims. (Cl. 302—37)

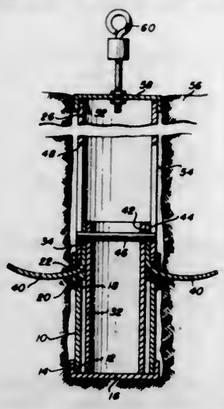


1. A blower elevator of the character described comprising in combination, a housing having a rotor with centrifugally acting blades, an inlet opening in a side panel of said housing and positioned near the bottom thereof and adjacent the vertical plane of the axis of said rotor and on the side opposite to the direction of travel of the blades, a feed trough having therein an auger conveyor, its outlet end being flared downwardly and in direction of travel of the rotor, the end of said flared portion and said trough registering with said inlet, said rotor and auger conveyor adapted to turn in the same direction, whereby the material will be caused to travel from the trough downwardly and in the direction of travel of said blades assisted by gravity into the housing in the path of said blades and while traveling in the same direction as the blades.

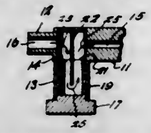
2,588,712
ANCHORING DEVICE
Walter W. Ferris, Fredonia, Kans.
Application March 23, 1948, Serial No. 16,429
5 Claims. (Cl. 189—92)

5. An anchoring device comprising a casing including an upper section and a lower section, a support slidably carried by the upper section for movement into the lower section, means guiding the sliding movement of the support and preventing rotation of the support relative to the casing, means connecting the lower end of said upper section to the upper end of said lower section, an anchor member carried by the support including a plurality of bendable prongs, and means detachably and adjustably carried by said connecting means for spreading the prongs outwardly from the casing substantially at right angles to the casing as the support is extended into the lower section, said connecting means including a coupling band having a plurality of

prong engaging openings, said means for spreading the prongs including a ring threaded to the band and having a sloping surface, said ring being disposed between the adjacent ends of the sections and extending radially inwardly of said sections.



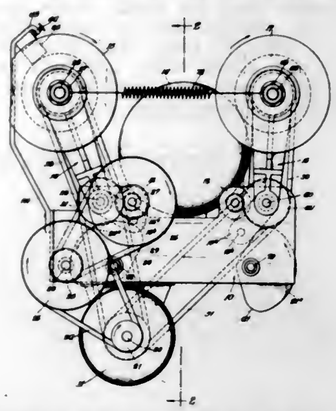
2,588,713
SMOKING PIPE
Alexander A. Fischbach, St. Paul, Minn.
Application April 1, 1946, Serial No. 658,829
1 Claim. (Cl. 131—213)



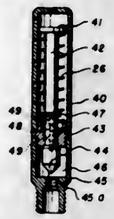
A smoking pipe comprising in combination, a bowl and shank portion and a stem portion separably connected thereto, a downwardly projecting extension on said stem portion defining a cylindrical filtering chamber, said portions being formed with smoke passages communicating with said chamber at the relatively opposite sides thereof, a removable cover plug at the lower end of said extension, a tubular adapter on said plug, said plug and tubular adapter forming a trap for liquified nicotine and nicotine burdened moisture, said adapter being formed with a pair of diametrically opposed slots in the bore thereof, and a baffle plate having stepped edges and shoulders and removably positioned in said slots and extending intermediately of said passages, certain of said shoulders engaging the top of said tubular adapter, whereby the baffle is easily removed from said extension along with said adapter and the baffle is easily subsequently removed from the adapter in cleaning the pipe.

2,588,714
BALL CLEANING AND POLISHING APPARATUS
Lawrence Martin Fleming, Escanaba, Mich., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application May 22, 1947, Serial No. 749,623
22 Claims. (Cl. 51—4)

1. Ball cleaning and polishing apparatus comprising, a plurality of spaced ball supports, means for rotating about a predetermined axis a ball resting on said supports, a pair of buffers arranged on opposite sides of the ball, each of said buffers being adapted to rub a portion of the ball, means for bringing the buffers alternately into contact with the ball, and means for intermittently shifting the ball about an axis different from said first named axis.



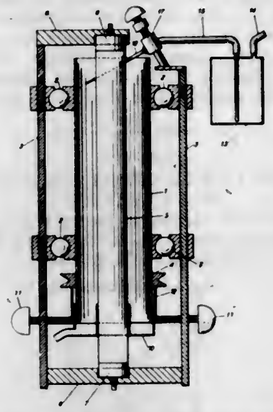
2,588,715
DIFFERENTIAL FLOW VALVE
Henry U. Garrett, Longview, Tex., assignor to Garrett Oil Tools, Inc., Houston, Tex., a corporation of Texas
Application March 27, 1947, Serial No. 737,599
12 Claims. (Cl. 137—153)



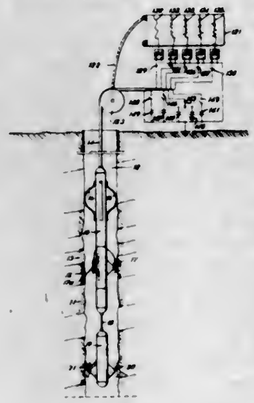
1. In a differential flow valve having a housing with a valve chamber therein equipped with inlet and outlet ports and a valve member operable to close the outlet port, means continuously urging the valve member toward open position, and a pressure differential motor connected to the valve member and adapted to move the valve member to closed position in response to a selected pressure differential between the valve chamber and the exterior of the housing, said motor including a driving part exposed to said pressure differential when the valve member is in fully open position and a second driving part of relatively greater area exposed to only one of said pressures when the valve member is fully opened and to said pressure differential when the valve member has been moved a predetermined distance toward closed position.

2,588,716
PROCESS AND APPARATUS FOR THE IRRADIATION OF LIQUIDS
Raymond B. Gochenour and Alice M. Gochenour, Indianapolis, Ind., assignors to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware
Application September 30, 1947, Serial No. 776,946
11 Claims. (Cl. 250—49)

1. An apparatus for irradiating liquids with active rays comprising an essentially vertically disposed rotatable hollow cylinder, means for supplying a liquid to the upper internal surface of said cylinder, means for rotating said cylinder to centrifugally form a downward flowing thin film of said liquid on said surface, and active ray generating means positioned a uniform and effective distance from said film of liquid.

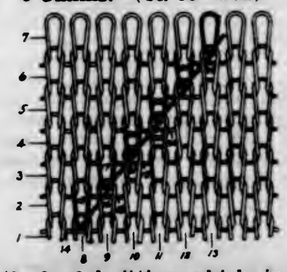


2,588,717
APPARATUS FOR MEASURING DIPS OF WELL STRATA
Lloyd O. Goodwin, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application May 25, 1946, Serial No. 672,209
5 Claims. (Cl. 73—152)



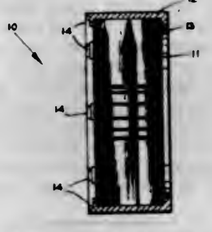
3. In an apparatus for logging wells and adapted to be lowered into a well on a cable which is slightly extensible with increasing tension due to the inherent elasticity of the materials forming it, the combination which comprises a member adapted to carry a logging means, an anchor spaced from said member, wall-engaging means on said anchor adapted to hold it fixed in a well bore, a flexible wire extending between said member and said anchor, means for paying out said wire as said member is moved by said cable away from said anchor, means actuated by the paying out of said wire for indicating at the surface, during the moving of said cable and simultaneously with the indication of said logging means, the movement of said member relative to said anchor.

2,588,718
METHOD OF KNITTING
Isaac H. C. Green, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application November 17, 1950, Serial No. 196,157
6 Claims. (Cl. 66—201)



1. A method of knitting which includes the steps of knitting two consecutive courses of a body yarn in each of which the yarn is floated across a space equal to at least one wale and knitting an overlay into each floated wale, the overlay yarn in one course being knitted subsequently to the formation of the float and, in the other course, being knitted prior to the formation of the float.

2,588,719
LAMINATED ELECTRICAL ASSEMBLY AND METHOD OF MAKING THE SAME
William Hargreaves, Bergenfield, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application March 26, 1947, Serial No. 737,259
1 Claim. (Cl. 171—252)

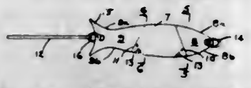


A laminated electrical assembly comprising an annular frame having an intermediate wall and an inwardly extending retaining rib formed integrally with one end of the wall, and a laminated stack within said frame with the end lamination of the stack engaging said rib, the opposite end of the wall being dimpled inwardly at a plurality of points toward the stack to engage directly the first lamination of the stack and to press said stack in an axial direction against said rib to thereby retain said stack within said frame and to retain said laminations closely assembled to one another, the inwardly dimpled points of the wall constituting a second retaining means for said laminated stack.

2,588,720
FISHING SPOON
Albert H. Heiland, Seattle, Wash.
Application March 26, 1949, Serial No. 83,653
6 Claims. (Cl. 43—42.5)

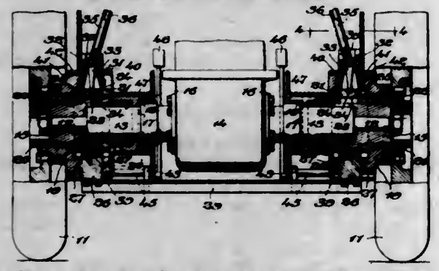
1. A relatively small and lightweight fishing spoon comprising a flat mid-body portion having its sides defining a trapezium wherein the normal top and bottom sides are arcuate and the lateral

sides thereof angularly converge toward each other from the normal bottom to the top thereof; a fish-like head portion integral with, connected along one lateral side of said mid-body portion, and angularly disposed laterally to said mid-body portion; and a flat fish-like tail portion



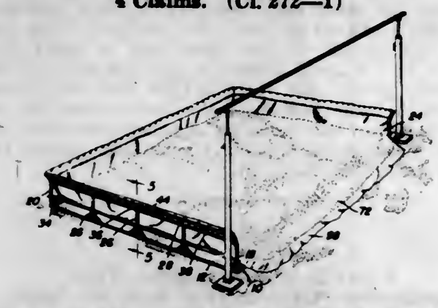
integral with, connected along the other lateral side of said mid-body portion, and angularly disposed to said mid-body portion, said tail and head portions being angularly disposed laterally in opposite directions from said mid-body portion.

2,588,721
POWER TAKE-OFF DEVICE FOR WHEELED TRACTORS
Julius Heller, Portsmouth, Va.
Application May 11, 1949, Serial No. 92,549
8 Claims. (Cl. 254—166)



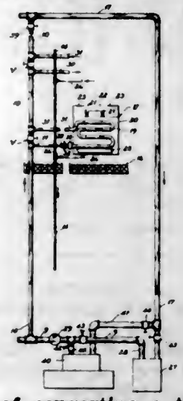
1. In a tractor having a rear drive wheel, a live rear axle, and a housing for said axle, a cable drum rotatably mounted upon said housing concentrically with respect to said axle, a drive member fixed to said axle and having said wheel mounted thereon for rotation with respect thereto, said drive member cooperating with said cable drum to maintain the latter axially alined with said wheel, and clutch means drivably connected constantly with said drive member, and operable to drivably connect and disconnect either said wheel or said drum with and from said drive member.

2,588,722
PORTABLE AND COLLAPSIBLE POLE VAULTING AND HIGH JUMPING PIT
Robert W. Hendershott, Klamath Falls, Oreg.
Application September 29, 1949, Serial No. 118,491
4 Claims. (Cl. 272—1)



1. A portable jumping pit comprising a substantially square frame having lower side frame members extending therearound, standards secured to said lower side frame members and extending upwardly from the corners and intermediately of three of said lower side frame members, upper side frame members secured to said intermediate and said corner standards above said three side frame members, a resilient mat secured to said lower side frame members, spacing members secured to said standards, guard rails secured to said spacing members, and guards positioned against said spacing members and abutting said guard rails and said upper frame members.

2,588,723
METHOD OF CONVERTING AIR CONDITIONING SYSTEMS
Harry H. Herman, Denver, Colo.
Application December 24, 1945, Serial No. 637,132
5 Claims. (Cl. 257—8)

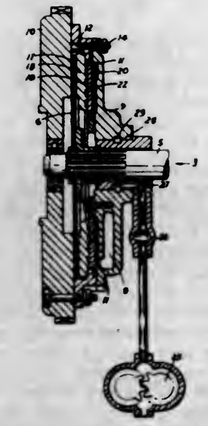


1. A method of converting a two-pipe steam heating system into a cooling or heating system for a building, said two-pipe steam heating system including a steam supply main having one or more risers, branch lines leading to steam radiators at various floor levels, at least one condensate return pipe, and branch return pipes leading from each radiator to a condensate return pipe, said method comprising the steps of installing cooling means for a heat transfer liquid and connecting the same with said supply main; substituting cooling units for said radiators, each said cooling unit including a heat transfer element; installing a drip pan beneath each heat transfer element for collecting moisture condensing on said heat transfer element; connecting each said drip pan with a former condensate return line, thereby converting the former condensate return line into a drain line; connecting said drain line to a sewer or the like; installing a shunt valve in a riser at a point adjacent each cooling unit; connecting the inlet of the heat transfer element of each said cooling unit with a riser at one side of a shunt valve; connecting the outlet of each said heat transfer unit with said riser at the opposite side of said shunt valve; and installing a return line for conveying said heat transfer liquid from the ends of said risers to said cooling means.

2,588,724
FRICTION CLUTCH AND BRAKE
Howard Frederick Hobbs and Joseph Arthur Thompson, Leamington Spa, England, assignors to Hobbs Transmission Limited, Leamington Spa, England
Application November 16, 1948, Serial No. 60,236
In Great Britain November 26, 1947
2 Claims. (Cl. 192—85)

1. A hydraulically actuated clutch comprising a rotary input member, a rotary output member,

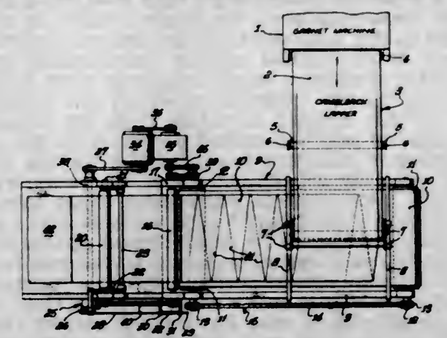
a housing carried by one of said members, a friction element carried by the other of said members within said housing, a plate carried by said housing and enclosing said friction element in said housing, said plate having a fluid actuating space therein adjacent the face of the friction element, an axially resilient member enclosing said actuating space for engaging said friction element, pump means for supplying fluid under pressure to said actuating space, centrifugal action on the fluid in said actuating space providing at least part of the engaging pressure, a valve for controlling the supply of fluid under pressure from said pump to said actuating space, two radially disposed chambers in said plate offset 180° in respect to each other, means in said plate communicating with said chambers and with said actuating space near the outer ends



thereof, said chambers containing air which is trapped and compressed therein by the fluid supplied to the actuating space during engagement of said resilient member and said friction element, valve means in said plate for controlling the supply of fluid under pressure from said pump and said actuating space, said valve means having an exhaust port for discharging fluid from said actuating space when said supply valve is closed whereby said actuating space is in communication with the atmosphere for replenishment of the air in said chambers, and a spring-urged centrifugally operated valve in said plate offset 180° in respect to said valve means, said valve having exhaust ports associated therewith in said plate for relieving the pressure in said actuating space and said chambers over a predetermined range of speeds.

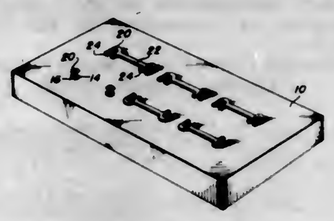
2,588,725
APPARATUS FOR PRODUCING ROLLS OF UPHOLSTERER'S FELT OF UNIFORM LENGTH AND WEIGHT
Billie I. Hogan, Los Angeles, Calif., assignor to Edgar Anspacher, Los Angeles, Calif.
Application July 26, 1947, Serial No. 763,872
3 Claims. (Cl. 19—163)

1. In a machine for making an upholsterer's felt, the combination of: an endless forming conveyor for receiving a deposit of a web of linters to be loosely compressed into a continuous sheet of felt; a conveyor supporting shaft at each end of said conveyor; driving means operably connected to one of said shafts for moving said conveycr; means for severing said continuous sheet of felt into selected lengths while advancing, said means including a driven rotatable transversely disposed roller held against vertical movement and disposed on one side of the advancing sheet of felt; a freely rotatable roller disposed on the opposite side of said sheet of felt; an actuating means for said severing means, said actuating means including a pivoted lever provided with a slot intermediate its ends for connection to said vertically movable roller, a single revolution clutch means operably connected to said lever for providing positive movement of



said vertically movable roller toward and through said sheet of felt and into contact with said driven roller, an endless timing chain coextensive with said forming conveyor for corresponding movement therewith and carried by said shafts, an actuating lug carried by said chain, and a spring-biased clutch actuating member operably connected to said clutch means and extending into proximity with one end of said chain for periodic contact with said lug for actuating said severing means.

2,588,726
TERMINAL BLOCK
James K. Hoover, Huntington, W. Va.
Application May 29, 1950, Serial No. 164,904
4 Claims. (Cl. 175—298)



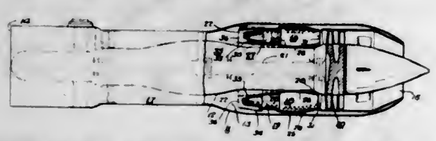
1. A terminal block comprising a base of insulation material, first and second parallel rows of spaced pairs of sleeves embedded in said base, said base having recesses therein accommodating the inner end portion of said sleeves, each of said sleeves having an end exposed from the base, a conductor removably secured to and joining each pair of sleeves, said conductors being spaced from the base, means threaded in the upper ends of each pair of sleeves securing said conductors against the exposed ends of the sleeves, additional conductors embedded in the base and connecting the adjacent pairs of sleeves of each row together and having ends entering the recesses in which the adjacent pairs of sleeves of each row are accommodated, and further conductors embedded in the base and connecting the rows to form a series circuit.

2,588,727
DISPOSABLE DISH AND BASE THEREFOR
Kevin E. Howard, Takoma Park, Md.
Application May 4, 1945, Serial No. 592,050
1 Claim. (Cl. 65—15)



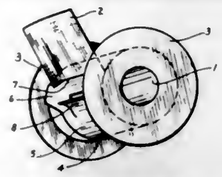
A container comprising a rigid base and a flexible disposable liner, the upper surface of said base having a substantially flat central portion, a first frusto conical portion surrounding said central portion, a second relatively short frusto conical portion extending upwardly and inwardly at only a small deviation from the perpendicular to said flat central portion from the periphery of said first frusto conical portion, and an upwardly convex peripheral bead connected to the upper edge of said second frusto conical portion, and said liner having a substantially flat central portion, a first frusto conical portion surrounding said central portion, a second relatively short frusto conical portion extending upwardly and outwardly at only a small deviation from the perpendicular to said flat central portion from the periphery of said first frusto conical portion and an upwardly convex peripheral bead connected to the upper edge of said second frusto conical portion, the diameter of the second upwardly and outwardly extending frusto conical portion of said liner at the midpoint thereof being substantially equal to the diameter of the upper edge of the upwardly and inwardly extending frusto conical portion of the base before assembly, and when the liner is pushed into position on said base the second frusto conical portion of the base will deform the second frusto conical portion of the liner and thus hold the liner in position.

2,588,728
COMBUSTION CHAMBER WITH DIVERSE COMBUSTION AND DILUENT AIR PATHS
Richard L. Hundstad, Pittsburgh, Pa., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application June 14, 1948, Serial No. 32,928
3 Claims. (Cl. 60—39.65)



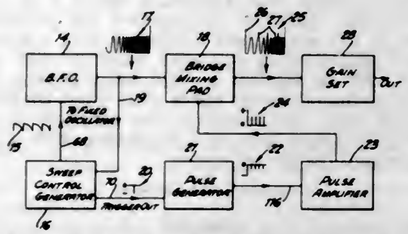
1. In combustion apparatus comprising a casing having an annular passageway for receiving air under pressure, annular combustion basket structure mounted in said casing and defining a combustion chamber having upstream and downstream inlets communicating with said passageway, fuel supply means associated with the upstream end of said basket structure, and a pair of spaced annular imperforate walls interposed in said passageway with the downstream ends thereof connected to opposite sides of said basket structure, said walls extending in spaced overlapping relation with the upstream inlets of said basket structure, said walls being further spaced apart at their downstream end than at their upstream end and defining an annular entryway substantially forward of the fuel supply means to divide air in said passageway into primary and secondary streams and to guide primary air into the upstream end of said combustion chamber at a rate establishing a definite pressure drop across said upstream end so related to that in the downstream end as to minimize any tendency toward development of backflow or pressure surges during combustion of fuel.

2,588,729
CUTTING DEVICE FOR SEVERING A PORTION OF TAPE UNWOUND FROM A ROLL
Donald J. Jardine, Regina, Saskatchewan, Canada
Application February 12, 1948, Serial No. 7,821
2 Claims. (Cl. 164—84.5)



1. A tape cutter consisting of a thin elongated strip of a springy nature, and formed into a cylindrical coil, a bevelled tearing edge of substantially the full width of the tape to be cut and extending transversely in a straight line across one end of said strip and an integral thumb-engaging wing free along three sides and rounding upwards from said strip, centrally of the sides thereof and adjacent said tearing edge for applying pressure on said tearing edge; said strip being formed as a coiled spring continuing through more than one full convolution in contracted form and useable from an open position of more than one-half a convolution to fully contracted position.

2,588,730
METHOD AND APPARATUS FOR FREQUENCY RESPONSE MEASUREMENT
Wayne R. Johnson, Los Angeles, Calif.
Application May 2, 1947, Serial No. 745,480
6 Claims. (Cl. 250—27)



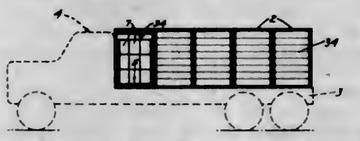
5. In apparatus for producing a test record of the class described: a variable frequency signal generator; frequency control means operatively associated with said generator and adapted to progressively vary said signal frequency at a predetermined rate over a predetermined frequency range; and sweep circuit means including an element responsive to a predetermined frequency connected between the output of said generator and said frequency control means to terminate and re-initiate the operation of said sweep circuit whenever said signal frequency reaches a predetermined value whereby to produce a series of identical swept frequency signals from said generator.

2,588,731
OPENER FOR CANNED LIQUIDS
Nicholas J. Kabanuck, San Rafael, Calif.
Application May 17, 1948, Serial No. 27,373
2 Claims. (Cl. 30—6.1)



1. Means for venting and opening a can comprising gripping means adapted for detachable concentric positioning on the side wall of a can, a forked member extending upwardly from said gripping means and including a pair of stop ears for engaging the edge of the top of the can and limiting downward movement of the gripping means, a lever pivotally secured at one end thereof to said gripping means whereby said lever may be swung upwardly from a position adjacent said gripping means to a position overlying the top of the can, a fixed prong depending from said lever adjacent the lateral end and a longitudinally adjustable prong depending from said lever.

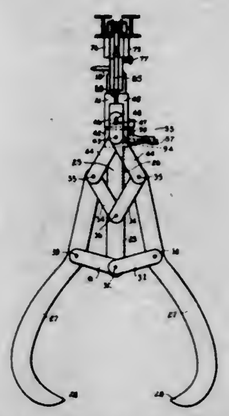
2,588,732
APPARATUS FOR HANDLING LOADS
John H. Kemp, Jr., San Carlos, Calif.
Application July 26, 1948, Serial No. 40,752
1 Claim. (Cl. 214—65)



Apparatus for handling a load comprising a rectangular container having a side opening, a load carrying pallet insertable through said opening, depressible means in the container for supporting the pallet, and means operable upon downward movement of the supporting means for binding the load and pallet together within said container.

2,588,733
AERIAL TRANSPORTER
Albert Knox, Vancouver, British Columbia, Canada
Application November 29, 1948, Serial No. 62,473
In Canada January 12, 1948
9 Claims. (Cl. 212—77)

2. An aerial transporter for logs and the like comprising a vertical support, a pair of opposed tongs, toggle links pivotally connecting the tongs at a point spaced below the upper ends thereof to the lower end of the support, toggle links connecting the upper ends of the tongs to the support above its lower end, a slide movably mounted on the support, said slide being divided into upper and lower sections, means connecting the slide sections, said connecting means permitting a small relative movement of said sections, means connecting the lower section of the slide to the upper ends of the tongs, a latch on the lower section adapted to prevent upward movement thereof, means on the upper section for releasing the latch when said section is moved upwardly relative to the lower one, and means for moving the slide up and down the support to open and close the tongs through the toggle links thereof.



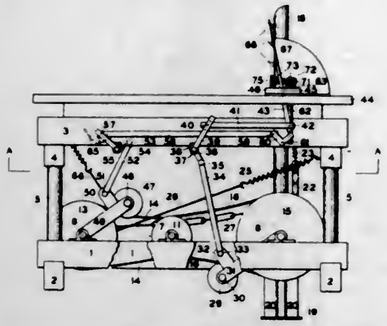
8. An aerial transporter for logs and the like comprising an overhead rail, a carriage adapted to be moved along the rail, a stop positioned adjacent the rail, a vertical support extending downwardly from the carriage, a pair of opposed tongs, toggle links pivotally connecting the tongs to the support adjacent the lower end thereof, a slide movably mounted on the support and connected to the tongs, said tongs being open and closed when the slide is respectively near the top and bottom of the support, a segment pivotally mounted on the carriage adjacent the support, a cable connected to the segment at one end thereof and extending down to the slide, said slide normally being in its lowermost position, and means on the segment for engaging the stop when the carriage moves past the latter to turn the segment about its pivot to raise the slide and open the tongs.

2,588,734
PRETREATMENT OF BERYLLIUM PRIOR TO COATING
Morris Kolodney, New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission
No Drawing. Application May 14, 1948, Serial No. 27,151
2 Claims. (Cl. 204—32)

1. The method of treating compositions of beryllium prior to coating which comprises making the composition cathodic in a potassium hydroxide solution having a normality of about 1 and subjecting the composition while therein to a current density of about 0.5 ampere per square inch for about three minutes, removing the composition, making it anodic in a solution consisting essentially of from about 25 to 70 percent by volume of concentrated phosphoric acid, from 0.1 to 1 percent hydrochloric acid by volume and the remainder water and subjecting it while in the solution to a current density of from about 0.1 to about 0.5 ampere per square inch for a period of from above five to about ten minutes, removing the article, washing it in water, and dipping it in an aqueous solution consisting essentially of from

about 50 to 200 grams per liter of ammonium sulphate and from about 25 to 75 cubic centimeters per liter of concentrated sulphuric acid.

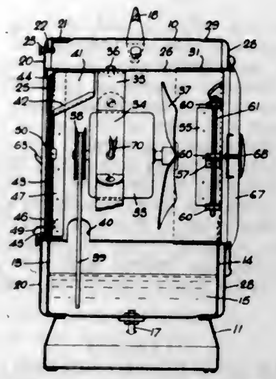
2,588,735
BELT-DRIVE LOG-TURNING NIGGER
Emile Gedeoin Letourneau, Winfield, Alberta, Canada
Application May 16, 1950, Serial No. 162,207
In Canada May 17, 1949
4 Claims. (Cl. 143—98)



4. Means for applying power to a vertically operable nigger bar comprising a main drive pulley and secondary drive pulleys fixed to one of a plurality of parallel shafts, such main drive pulley being coupled to a suitable power source; a driven pulley fixed to another of the said parallel shafts and loosely coupled by a belt to one of the said secondary drive pulleys; a hoisting pulley fixed to the last mentioned shaft, the said nigger bar being adapted to slidably fit over the said hoisting pulley and the last mentioned shaft; means associated with the said hoisting pulley and adapted to raise the said nigger bar vertically on rotation of the said hoisting pulley; means for limiting the rotation of the said hoisting pulley during the downward travel of the said nigger bar; another driven pulley affixed to another of the parallel shafts and loosely coupled by a belt to another of the said secondary drive pulleys; a friction pulley fixed to the last mentioned shaft; means associated with the said friction pulley and connected to the said nigger bar adapted to maintain pressure of the said nigger bar against a log positioned on the sawmill carriage; means for tightening the said loosely coupled belts singly or in unison to engage their respective secondary drive pulleys and driven pulleys, such means controlled from a point remote from the said nigger bar; means for restricting lateral movement of the said nigger bar and guiding the said nigger bar during longitudinal oscillation.

2,588,736
AIR CONDITIONING AND/OR HUMIDIFYING APPARATUS
Bernard Lipton, Leicester, England
Application January 14, 1949, Serial No. 71,014
In Great Britain January 4, 1949
3 Claims. (Cl. 261—97)

1. An air conditioning apparatus comprising an outer casing adapted to contain liquid in its lower part and having aligned openings front and back, a cylindrical tube disposed in the casing, means for supporting a motor and fan within the tube with their axes of rotation parallel with the axis of the tube, said means being connected to the tube at least at three positions spaced around the axis of the tube said tube and outer casing being of approximately the same axial length which is greater than combined axial length of the motor and fan, a ring attached to the tube at one end thereof, which ring serves as an end plate to one end of the casing, a flange on said ring, said flange having a push-on fit on the adjacent end of the casing so as to attach the ring detachably to the casing, the tube being carried horizontally by said ring the ring and tube and parts carried by it being removable as a unit from the casing, and a short tubular member having its axis horizontal attached to the other end of the casing and located within the casing, which member supports the other end of the tube, water projecting means within the tube

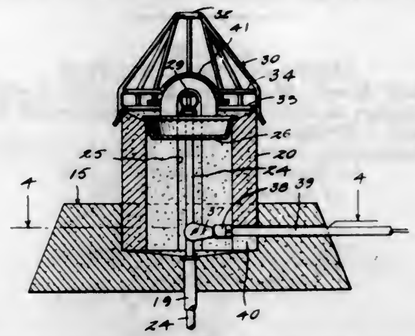


and depending through an opening in one end of the tube into the water and adapted to project water into the air stream in the tube, said fan and water projecting means being located at opposite ends of the motor, a heating element mounted on the tube at one end thereof at the same end of the motor as the fan, a textile screen mounted in a vertical plane at the other end of the tube, an inclined trough, the lower end of which is adjacent to the screen, which trough is adapted to receive water thrown up into the tube and to supply water to the screen and is formed by turning up the edge of a plate which is carried at the upper part of the tube and extends inwardly thereof so as to catch some of the water thrown up into the tube, and an electrical heater switch and motor switch carried by the end plate.

2,588,737
POULTRY FEEDER AND WATERER
John Ludi, Toms River, N. J.
Application September 21, 1950, Serial No. 186,058
1 Claim. (Cl. 119—73)

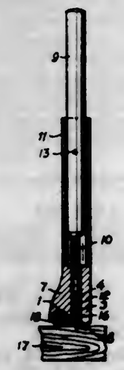
A poultry watering device comprising a frustro-conical concrete base having a centrally disposed recess opening through the top thereof, said base having a vertically disposed keyway opening into said recess, a cylindrical support seated at its lower end in said recess, a vertical key carried by said support engaging in said keyway, said support and key projecting above the top of said base, said support having a vertical channel opening inwardly of said support and disposed in the vertical plane of said key, a pan seated on the upper end of said support, a vertical water

supply pipe in said channel, a float valve on the upper end of said pipe having a portion thereof projecting into said pan, said valve discharging water into said pan, a dome-shaped cap on the



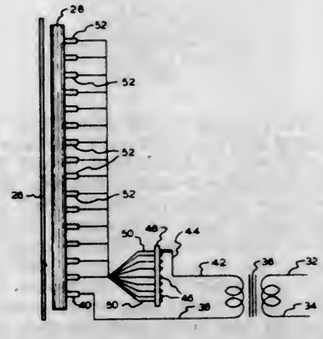
upper end of said key and support and engaging over said valve, a substantially conical wire guard on the upper end of said support, and a heating means in said support below said pan.

2,588,738
TOOL FOR SECURING CABLE CLAMPS
Axel Gustav Lundgren, Vasteras, Sweden
Application August 1, 1949, Serial No. 107,848
In Sweden August 24, 1948
1 Claim. (Cl. 1—47)



A tool for securing a clamp to the work, said clamp having a laterally extending apertured end portion and a curved portion provided with an outwardly projecting bead, a securing pin projecting into the aperture of the end portion so as to be provisionally maintained in an upright position, said tool including a sleeve having a reduced bore portion extending to the lower end thereof and into which said pin extends, a plunger axially slidable in said sleeve and having a reduced end portion for engaging said pin, the lower end of said tool having a flat face adjacent the reduced bore portion and having a laterally offset portion provided with a recess arranged to receive the curved portion of said clamp, the laterally extending portion of the clamp being positioned below said flat face when the parts are assembled, and the wall of said recess having a notch for detachably receiving said bead to temporarily retain the clamp on the tool prior to positioning the clamp on the work.

2,588,739
TRAFFIC LIGHT ACCESSORY
Everett G. Main, Ann Arbor, Mich., assignor to Main Flo-Control Traffic Light, Inc., Ann Arbor, Mich., a corporation of Michigan
Application October 7, 1949, Serial No. 120,187
2 Claims. (Cl. 177—337)



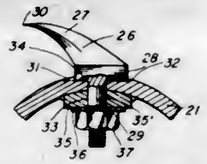
1. In combination with a "go" and "stop" traffic signal having a source of electrical energy supplied to the "go" signal at intervals of predetermined duration, an accessory traffic signal directly associated with said "go" signal and energized by the same source of electrical energy as said "go" signal during the same intervals, said accessory signal being in the form of an illuminated column having illuminating means of progressively diminishing length, means for operating said illuminating means in seriatim during the period of operation of said "go" signal including an electric motor energized only during the period said "go" signal is energized from said source, and an adjustable drive mechanism between said motor and said second means to synchronize said accessory signal with the duration of operation of said "go" signal whereby the remaining portion of the duration of operation of the "go" signal during any given interval of operation is visually indicated.

2,588,740
KINETO-OPTICAL SCANNING WITH MODULATED LIGHT BEAM IN TELEVISION IMAGE PROJECTION
William A. R. Malm, New Orleans, La.
Application April 15, 1944, Serial No. 531,205
4 Claims. (Cl. 178—7.6)



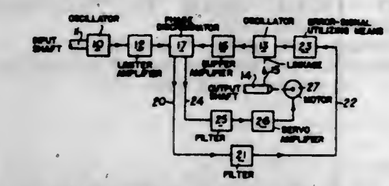
3. In a television image projector and the like, a lens system for vertically scanning a television image screen with a parallel beam of light; comprising a vertically rotating polyhedronal prismatic lens having a concentric circular hole, a cylindrical lens for paralleling the vertically divergent paths of said parallel light beam which deflected by said rotating polyhedronal prismatic lens, and an achromatic lens assembly for determining the total screen area covered by scanning light.

2,588,741
TOOTHED ICE-CRUSHER DRUM
Benhard A. Matthiesen, San Antonio, Tex.
Application December 15, 1949, Serial No. 133,093
2 Claims. (Cl. 241—294)



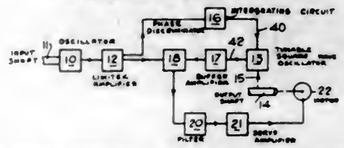
2. An ice crusher drum including, a hollow drum having a cylindrical outer surface provided with a plurality of transverse seats, each seat having a flat bottom and extending at its ends into the outer cylindrical surface of the drum, each seat being long transversely of the drum and narrow longitudinally of said drum and having upright flat side walls, teeth each having a point and an elongate flat bottomed base provided with flat upright side walls snugly engaging in one of the seats with its flat bottom in intimate contact with flat bottom of the seat and its flat side walls in intimate contact with the flat side walls of the seat, whereby each tooth has elongate bearings in its seat along each side transversely of the drum and is held against lateral displacement throughout the length of its base, a shank extending medially from the bottom of each tooth base through the bottom of each seat, blocks bearing against the inner surface of drum opposite the seats and having holes penetrated by the shanks, each block being substantially as long as its correlated tooth base and coacting therewith to prevent rocking of the tooth circumferentially of the drum, and a nut on each shank fastening the tooth and block in place.

2,588,742
SERVO CONTROL SYSTEM
Donald Murdo McCallum, Edinburgh, Scotland, assignor to Ferranti Limited, Hollinwood, England, a British company
Application June 12, 1950, Serial No. 167,676
In Great Britain June 16, 1949
4 Claims. (Cl. 318—28)



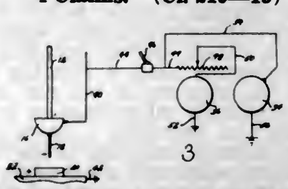
1. A servo system having an input member and an output member to be maintained in dispositional correspondence, input A. C. voltage deriving means, means for rendering the frequency of said input A. C. voltage dependent on the disposition of said input member, output A. C. voltage deriving means, means for rendering the frequency of said output A. C. voltage dependent on the disposition of said output member, means for determining the phase difference between said input and said output voltages, means for deriving an error signal from any departure of said phase difference from a fixed datum value, error-signal utilising means for shifting the frequency of said output A. C. voltage to approximate equality with the frequency of said input A. C. voltage, only whilst said error signal is being utilised, and motor means for utilising said error signal to bring said output member into dispositional correspondence with said input member, thereby modifying said frequency of said output A. C. voltage to reduce said error signal to zero.

2,588,743
SERVO CONTROL SYSTEM
Donald Murdo McCallum, Edinburgh, Scotland, assignor to Ferranti Limited, Hollinwood, England, a British company
Application June 12, 1950, Serial No. 167,676
In Great Britain June 16, 1949
4 Claims. (Cl. 318—28)



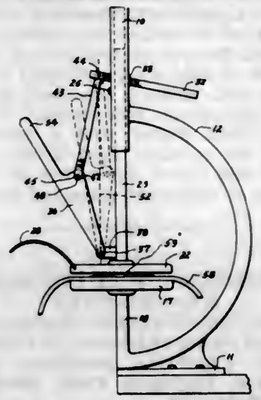
1. A servo system having an input member and an output member to be maintained in dispositional correspondence, a source of input A. C. voltage, means for rendering the frequency of said input A. C. voltage dependent on the disposition of said input member, a tunable oscillator, means for tuning said oscillator in dependence on the disposition of said output member, means for applying said input A. C. voltage to said oscillator to maintain oscillations therein at the frequency of said input voltage, means for deriving from said oscillator an output A. C. voltage having said frequency and having a phase difference with respect to said input voltage dependent on the tuning of said oscillator, means for deriving an error signal from any departure of said phase difference from a fixed datum value, and motor means for utilizing said error signal to bring said output member into dispositional correspondence with said input member, thereby modifying the tuning of said oscillator to reduce said error signal to zero.

2,588,744
AUTOMATIC ELECTRIC SPACE-DISCHARGE MATERIAL REMOVAL METHOD AND APPARATUS
Ian C. McKechnie, Detroit, Mich., assignor to Elox Corporation of Michigan, Clawson, Mich., a corporation of Michigan
Application November 9, 1946, Serial No. 709,040
4 Claims. (Cl. 219—15)



1. The method of removing material from an electrically conductive workpiece comprising connecting an electrode tool and an electrode workpiece in an electrical circuit with the tool negative and the workpiece positive, advancing the tool towards the workpiece so as to establish a predetermined space therebetween across which space an electrical material removing discharge occurs, and utilizing the space discharge voltage to advance the electrode tool toward the electrode workpiece and to maintain the predetermined space therebetween substantially constant against a force tending to retract the tool from the workpiece.

2,588,745
RAPIDLY ADJUSTABLE PRESS
Clarence Vincent McKenzie, Courtenay, British Columbia, Canada
Application February 27, 1950, Serial No. 146,607
7 Claims. (Cl. 18—18)



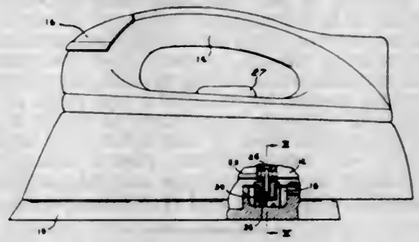
7. A rapidly adjustable press comprising an anvil, a tubular support spaced from and in line with the anvil, a rod slidably mounted in the support, a pressure plate on an end of the rod adjacent the anvil, a handle having an opening therein slightly larger than the support and through which the latter projects, said handle being carried by the support when the former lies at an angle to and binds on the latter, a lever pivotally connected at one end to the plate and extending towards the handle, a link pivotally connected at one end to the handle and extending towards the plate, means pivotally connecting the link to the lever, said lever being operable to move the pivot means on opposite sides of a center line running through the link and lever pivot points, and means for stopping the movement of the pivot means on one side of the line just past said line.

2,588,746
FORMATION TESTER AND PIPE PERFORATOR
Boyd R. McKinley, Long Beach, Calif.
Application March 29, 1947, Serial No. 738,190
7 Claims. (Cl. 166—1)



1. In combination with a formation tester, including an intake sleeve having holes extending laterally into the same, a sampling tube longitudinally slidable in said intake sleeve, said tube having an intake port therein alignable with said holes on longitudinal movement of the tube, a control head, threaded means coupling the sampling tube to said control head, a pipe connected at its ends to said intake sleeve and control head, respectively, the sampling tube extending through said pipe and control head, casing wall gripping means non-rotatably mounted on said pipe operable to grip the surrounding casing and hold the control head and intake sleeve against rotation, said threaded means on the control head imparting longitudinal movement to the tube relative to said control head and intake sleeve on rotation of said tube relative to the control head, to open and close said hole in the intake sleeve to admit fluid, a second pipe depending from the intake sleeve, a pressure recorder mounted below said intake sleeve and on the second pipe, valve means in the second pipe to admit fluid pressure to said pressure recorder, and means on the sampling tube operable on longitudinal movement of said tube to open said valve means.

2,588,747
STEAM IRON VAPORIZING CHAMBER
Eldred O. Morton, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 9, 1945, Serial No. 571,992
6 Claims. (Cl. 38—77)

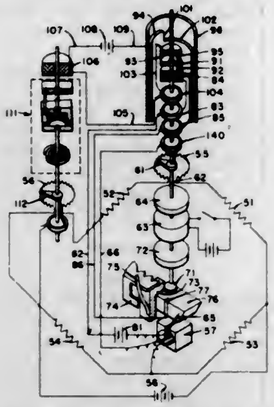


1. A steam iron comprising a soleplate having an ironing surface, a steam generating chamber above said soleplate, heating means for heating said soleplate and said steam generating chamber, a water reservoir disposed above said soleplate and said steam generating chamber, said steam generating chamber having an inlet opening communicating with said reservoir for conveying water from the latter to said chamber, and a water conducting member for accelerating the flow of water from the inlet opening and thereby minimizing the evaporation of water and the deposition of salts at said inlet opening, said water conducting member being other than a wall of said steam generating chamber and extending downwardly within said chamber from a point spaced from said inlet opening a distance less than the dimension that a drop of water forming at the inlet opening will assume before it becomes large enough to fall off.

2,588,748
APPARATUS FOR MEASURING WELL CHARACTERISTICS
Joseph A. Niles and Norris B. Simpson, Tulsa, Okla., Henry F. Sturgis, Noroton, Conn., and Renic P. Vincent and Charles W. Ziemer, Tulsa, Okla., assignors to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application January 22, 1947, Serial No. 723,480
2 Claims. (Cl. 73—204)

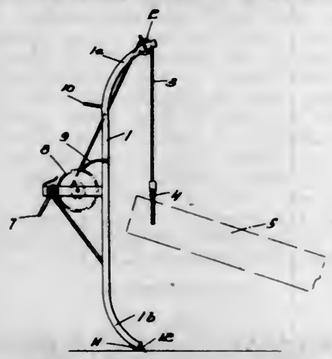
1. A self-contained well instrument for measuring a well characteristic comprising in com-

bination an electric circuit including a means for sensing changes in a well characteristic, an electric meter and an element of variable impedance, the magnitude of electric current in said meter varying with changes in said well characteristic and with changes in the impedance of said element of variable impedance, means for varying the impedance of said element of variable impedance, an indicating needle on said meter, an electrode adjacent the path of said indicating needle,



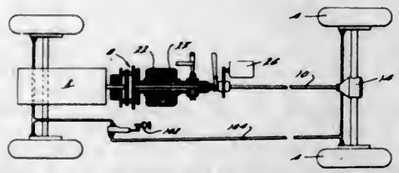
the position of said electrode being opposite the position of said indicating needle at which a preselected current flows in said meter, continuously reciprocating means opposite said electrode to press said indicating needle against said electrode, recording means for recording the value of said element of variable impedance at which a preselected current flows in said meter, as a measure of said well characteristic, means actuated by the contact of said electrode and said indicating needle for controlling said recording means.

2,588,749
TRANSPORTABLE LIFTING DEVICE
Nils Eric Nilsson, Mockeln, Sweden
Application January 20, 1950, Serial No. 139,601
In Sweden November 11, 1946
3 Claims. (Cl. 254—139)



1. A transportable lifting device comprising a standard, a straight cross bar on the foot end of said standard, a handle on said standard adapted for enabling an operator to brace said standard with one hand during use in unstable upright position with said cross bar on the foot end of said standard resting on a support and allowing swinging movements of said standard around said cross bar, the upper end and the foot end of said standard being bent in the same direction from a substantially straight intermediate portion of said standard in a plane at right angles to said cross bar, a cable drum mounted for rotation on said intermediate portion of said standard with its axis of rotation at right angles to the plane of said bent standard ends, a return pulley mounted for rotation on said upper standard end with its axis of rotation at right angles to the plane of said bent standard ends, a cable having one end thereof attached to said cable drum and the other end thereof being passed over said return pulley, and a manually operable crank for rotating said drum, the axis of rotation of said crank extending at right angles to the plane of said bent standard ends.

2,588,750
ELECTROMECHANICAL CHANGE-SPEED TRANSMISSION
Paul T. Nims and Alexander Chadkewicz, Detroit, Mich.; said Chadkewicz now by change of name Alexander Chadwick, assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 23, 1948, Serial No. 3,847
13 Claims. (Cl. 74—686)

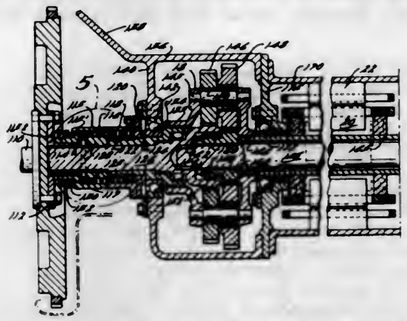


1. An electro-mechanical driving system including an electrical generator, an electric motor having an electrical connection to the generator and being driven by electrical output from the generator, a planetary-differential driving assembly having an input driving portion and driven output portions, one of said output portions being adapted for driving the electrical generator and the other adapted for driving a mechanical load, a releasable mechanical clutch for connecting the electric motor to said output portion for the mechanical load such that torque from the output portion for generator drive may be applied to such mechanical load by driving the electric motor from the electrical output of the generator, said releasable mechanical clutch comprising an overrunning clutch, means operable to lock up said planetary-differential driving assembly for direct mechanical driving of the mechanical load, means including a speed sensing device sensitive to speed of said mechanical load and effective to prevent operation of said driving assembly lockup means below a predetermined speed and electrical disconnect means for preventing powering of the electric motor from the generator when said planetary-differential assembly is locked up.

2,588,751
ELECTROMECHANICAL TRANSMISSION
George L. McCain, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 27, 1949, Serial No. 73,141
21 Claims. (Cl. 74—686)

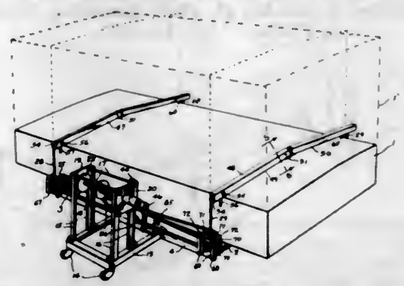
1. In an electro-mechanical driving system characterized by a prime mover, an electrical generator means, and a mechanical load means, a planetary-differential driving assembly for operatively connecting the aforesaid means in load

sharing relation to said prime mover, said assembly comprising a planet carrier, said planet carrier being adapted to be drivingly connected with the generating means, planetary gears carried by the carrier, a pair of sun gears meshing with the planetary gears, one of said sun gears comprising a driving gear adapted to be connected to the prime mover and the other a driven gear adapted to conduct the drive to the mechanical load means, and, in combination therewith, a two-way clutch device positively rotatably connected with a component of the planetary-dif-



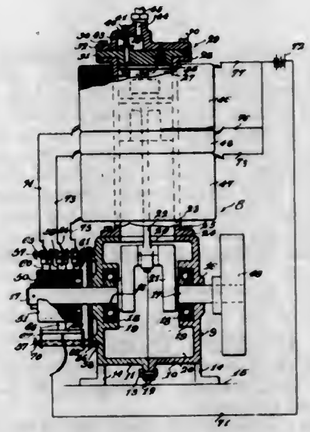
ferential assembly other than said driving sun gear and having a first position running entirely free of said driving sun gear, and second and third positions for locking up said driving sun gear and assembly, the two-way clutch device including coil spring means selectively tending either to unwind or coil in said second position assumed by the clutching device for establishing straight drive in the direction of said driving sun gear and tending either to coil or unwind respectively in said third position for establishing straight drive in the direction of said driven sun gear.

2,588,752
APPARATUS FOR OPENING COMPRESSED PACKAGES
John R. Nordstrom, Portland, Oreg.
Application August 14, 1947, Serial No. 768,680
11 Claims. (Cl. 100—12)



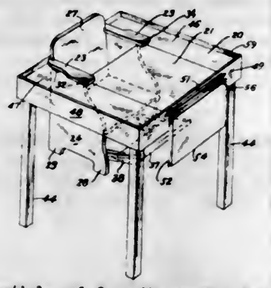
6. Apparatus for controlling the opening of compressed packages, comprising supports for said packages, a pair of ropes, a drum for said ropes, rotatable means for simultaneously controlling the movement of said ropes, means associated with said rotatable means for controlling the speed of its rotation; means slidably positioned on said supports adapted for securing the ends of said ropes, means associated with said ropes and confined thereon between said slidable means and said drum for aiding the movement of said ropes, said means associated with the ropes adapted to be positioned on top of said packages, and means associated with said drum for controlling its movement, said means comprising a floating brake disc, a pressure plate positioned in intimate relation to said brake disc, resilient means associated with said pressure plate to maintain said pressure plate in contact with said brake disc, and means associated with said resilient means to vary the pressure of said pressure plate on said brake disc.

2,588,753
ELECTRICALLY OPERATED COMPRESSOR
James P. Norton, Chicago, Ill.
Application June 25, 1948, Serial No. 35,219
1 Claim. (Cl. 172—126)



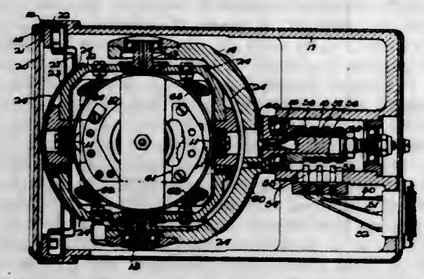
A self-starting solenoid control means comprising a cylinder, a pair of solenoids disposed one around each end of the cylinder, a piston reciprocably mounted in the cylinder and formed of a material capable of being attracted by an energized electromagnet, a rotary electric switch adapted to be interposed in an electric circuit of the solenoids including spaced conductor portions one connected to each solenoid for alternately energizing the solenoids and for maintaining each solenoid energized during a portion of rotation of the switch equal to slightly less than one-half of a complete revolution, means forming a driving connection between the piston and switch whereby the switch will complete one revolution to each two strokes of the piston, said switch rotating in timed relationship to the reciprocating movement of the piston for de-energizing each of the solenoids as the piston approaches its extremity of movement in a direction toward said solenoid and for thereafter energizing the other solenoid to move the piston in the opposite direction, and a third solenoid disposed around the cylinder between the first mentioned solenoids and adapted to be constantly energized by the electric current source for functioning with either of the first mentioned solenoids, when energized, and functioning when both of the first mentioned solenoids are de-energized to move the piston from a substantially dead center position at either extremity of its movement toward a position intermediate of its extremities of movement whereby the rotary switch is moved, by movement of the piston from either extremity of its movement, into a position to energize the first mentioned solenoid, disposed remote to the piston, to thereby provide a self-starting unit.

2,588,754
INFANT'S FEEDING TABLE
Sam B. Novi, Sharp Park, Calif.
Application November 15, 1948, Serial No. 60,133
8 Claims. (Cl. 155—123)



1. An article of furniture for feeding infants comprising in combination, a table, said table having a plurality of panels in its top surface, at least one of said panels being movable relative to another of said panels to provide an aperture in said top surface, said panels when in closed position completely closing the top of said table, and a chair, said chair being dimensioned to fit within the aperture of said table top and having a projecting portion engageable with a portion of said table to suspend said chair within said aperture.

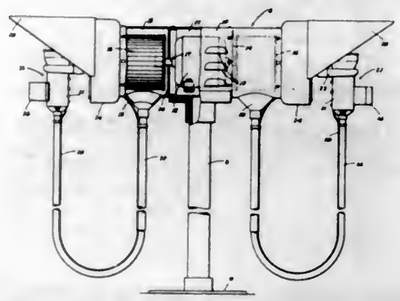
2,588,755
ATTITUDE INDICATOR
Paul A. Noxon, Tenafly, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application December 26, 1944, Serial No. 569,748
4 Claims. (Cl. 74—5.2)



1. In a gyroscope device having a rotor adapted to spin about a predetermined axis, first means for mounting said rotor for freedom about two mutually perpendicular axes other than said spin axis, second means mounted for pivoting about an axis normally aligned with one of said two mutually perpendicular axes and supporting said first means, and resilient means yieldingly restraining relative movement of said rotor spin axis and said first means and maintaining said rotor spin axis and said first means in a predetermined relationship with one another.

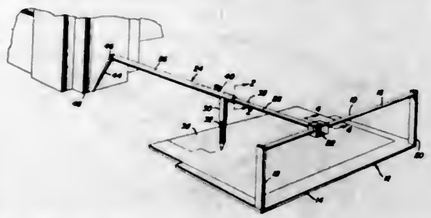
2,588,756
AUTOMOBILE AIR CONDITIONER FOR DRIVE-IN THEATERS
William S. Oftebro and William E. Fleming, Stockton, Calif.
Application June 13, 1949, Serial No. 98,682
3 Claims. (Cl. 219—39)

1. In an outdoor theatre having a screen and an area adjacent thereto comprising a plurality of parkways in which automobiles may be parked, a system for conveying conditioned air to an automobile standing in one of said parkways, said system comprising a supporting member disposed adjacent the parkway, a housing disposed on said supporting member, a motor driven fan disposed in said housing, an electric circuit leading to the motor of said fan from a point remote from the supporting member, a tubing leading from the housing, such tubing being of such a length as to permit the free end of the tubing to be projected into the said automobile, an electrical heating element associated with the tubing, such heating element being included in said motor



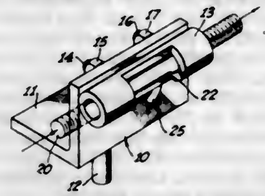
circuit, and switch means for controlling the flow of current to the motor and to said heating element; said switch means including a switch in the circuit, a lever pivoted adjacent the supporting member for vertical swinging movement, the lever being associated with the switch and effective to open the switch when the lever is in its lowermost position and to close the switch when the lever is in its uppermost position, yieldable means normally tending to swing the lever to its uppermost position, and means adjacent the outer end of the tube and adapted to be suspended on the outer end of the lever and being effective to pull the lever to its lowermost position.

2,588,757
TILE MARKER
Ernest E. Peeples, Jr., Jacksonville, Fla.
Application November 21, 1949, Serial No. 128,587
5 Claims. (Cl. 33—23)



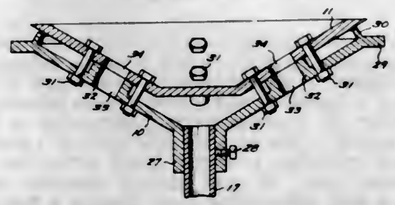
1. A tile marker comprising a frame having first and second relatively perpendicular sides for receiving a tile, an elongated guide mounted on said frame parallel to said first side, a longitudinally extensible member including first and second relatively slidable elongated segments, means attaching said first segment to said guide for sliding movement longitudinally of said guide, said first segment extending perpendicular to said guide, a scriber depending from the end of said second segment adjacent said first segment and a tracer extending from the end of said second segment remote from said first segment.

2,588,758
ROD CLEANING APPARATUS
Guy H. Pilj, Los Angeles, Calif.
Application October 27, 1947, Serial No. 782,439
3 Claims. (Cl. 15—88)



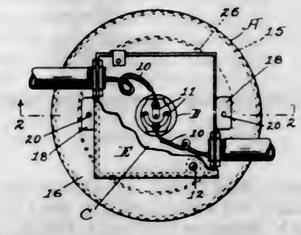
1. A rod cleaning attachment for a power driven rotary brush unit comprising in combination: an angular support member having a face thereof positioned adjacent the periphery of said rotary brush and having a substantially vertical cylindrical shank adapted to be adjustbly secured to the base of said rotary brush unit; a tubular bearing member secured to said brush adjacent face, said tubular member being substantially one-half cut away adjacent a center portion thereof whereby to permit said brush to contact a substantial peripheral portion of a rod positioned in said bearing member; a pivot secured to said bearing member substantially diametrically opposite said cut away portion and projecting through said support member whereby to adapt said tubular member for tilting motion with respect to the axis of said brush; and a clamping bolt secured to said tubular member at a point spaced from said pivot, projecting through an arcuate slot in said brush adjacent face and having means thereon to clamp said tubular member in a tilted position thereof with respect to said brush axis whereby to impart rotational and longitudinal motion to a rod positioned in said bearing member.

2,588,759
GAS BURNER WITH SECONDARY AIR SUPPLY
Leonard R. Poschadel, Milwaukee, Wis.
Application December 3, 1947, Serial No. 789,523
1 Claim. (Cl. 158—116)



In a burner for gas mixtures comprising a centrally positioned vertically disposed hub providing means for a fuel connection, walls inclined upwardly and outwardly from the upper end of said hub, a horizontally disposed peripheral flange having a continuous upwardly extended lip at the inner edge thereof extended from the upper edges of the walls, said upwardly inclined walls having spacing bosses extended upwardly from the upper surfaces thereof, said bosses having openings therethrough and said openings extending through the said walls, a baffle having a flat centrally disposed section and also having inclined upwardly and outwardly extended walls and said walls of the baffle being parallel to and spaced from the walls extended from the upper end of the hub, the walls of the said baffle being positioned above the said walls extended from the upper end of the hub and having openings therethrough positioned to register with the openings through the bosses thereby providing communicating means through the walls of the burner, and bolts extended through the walls of the baffle and walls extended upwardly from the upper end of the hub.

2,588,760
RECESSED LIGHTING FIXTURE
Ralph Pryne, Pomona, Calif.
Application July 12, 1948, Serial No. 38,234
1 Claim. (Cl. 240—78)

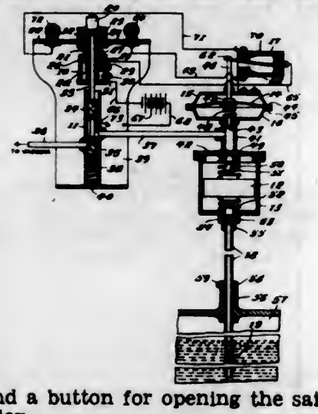


In a lighting fixture unit, concentrically arranged inner and outer shells in spaced apart relation, a cover on the upper end of the outer shell having a central opening for accommodating a lamp fixture, said inner shell being provided on its lower end with a radial flange having an upwardly extending rim portion, said flange being of a diameter to extend beyond the outer shell with the outwardly extending portion of said radial flange being arranged to overlie the edge of a building wall in which the fixture is installed, an electrical conduit outlet box having its lower side open and presented to said cover, threaded fasteners extending through openings in said cover with their ends received in correspondingly threaded openings in said outlet box, a closure disk having keyhole slots at diametral points to receive certain of said threaded fasteners for removably securing said disk to the underside of said cover, an electric lamp socket supported in said disk with a portion projecting into said outlet box and a portion projecting beneath said disk into said shell, a removable cover for the upper portion of said outlet box, bracket members secured to said inner shell and threaded fasteners extending through said disk and bracket members for anchoring said brackets to said outer shell cover and adjustably supporting said inner shell.

2,588,761
MOTOR VEHICLE OIL LEVEL INDICATOR
James O. Raby, Elizabeth City, N. C.
Application April 13, 1951, Serial No. 220,759
5 Claims. (Cl. 177—311)

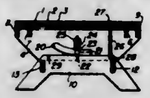
1. An oil level indicator comprising a float chamber, a tube extended from the float chamber to a case in which oil is positioned with the tube extended to a point below the desired level of oil in the case, a connection from the float chamber to vacuum providing means, a valve in the said vacuum connection of the float chamber, a float in the float chamber positioned to close the said valve, means closing the vacuum connection to the float chamber, a signal light, a switch for closing a circuit to the said signal light, means actuating the said switch of the

signal light by the vacuum of the vacuum connection upon closing of the said valve by the



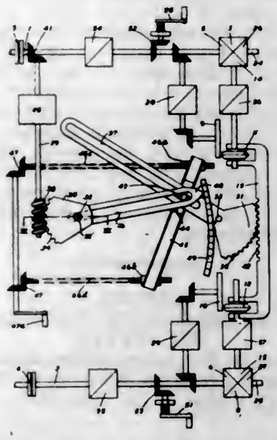
float, and a button for opening the said vacuum connection.

2,588,762
SECTIONAL FOLDING BEAUTY-HEALTH BOARD WITH ROCKER MEANS
Georgie V. Reager, Richland, Wash., and Amy Burkett, Ocean Springs, Miss.
Application May 8, 1950, Serial No. 160,764
1 Claim. (Cl. 311—8)



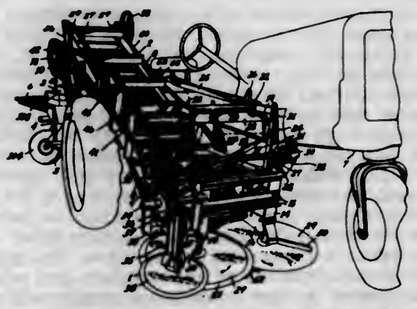
In a device of the class described the combination of a board in three sections having the end of the head section hinged to the center section by a continuous hinge so as to fold upward and inward to overlie the center section and the foot section hinged to the opposite end of the center section by a continuous hinge mounted upon risers so as to fold upward and inward and overlie both the head and center sections and forming the top structure; the top structure mounted within a straight rectangular frame in such manner that when closed the side and end sections of the frame will form a skirt to conceal the mechanism of the device and the tops of the side and end sections of the frame in combination with the top of the board when folded will form a smooth, continuous surface; the ends of the aforesaid frame being movably connected to the inner sides of the sides of the frame in such manner that they may be pivoted to the horizontal position to permit the unfolding of the foot and head sections of the board to form an elongated platform, and rigidly support said foot and head sections of the board when unfolded; rockers, convex on one end and straight on the remainder of the under side thereof and having holes near the center thereof cut vertical on the side toward the convex end of said rocker and at an angle on the side toward the straight end, attached to the inside of the frame; a base supporting the frame and movably connected thereto by means of hanger bolts inserted through the holes in the aforesaid rockers and screwed into the top of the base in such manner that the board will remain in the horizontal position until weight is placed upon the head section thereof and thereupon the entire board will rock to the inclined position and remain stationary in that position until weight is removed from the head section and then automatically revert to the horizontal position, but will not rock in the opposite direction; nuts on the top of the aforesaid hanger bolts which may be adjusted upward or downward to control the degree of angle of the board when in the inclined position; compression springs on the hanger bolts between the top of the rocker and the adjusting nut and expansion springs interposed between the top of the supporting base and the underside of the board top near the foot end thereof to produce a gradual, smooth downward motion, stop said downward motion when the desired angle of incline is reached, and return the board to the horizontal position when weight is removed from the head section thereof; and means provided for locking the frame and base together to hold the board stationary in the horizontal position when desired.

2,588,763
NAVIGATION INSTRUMENT
Hugh Lambert Reilly and Kenneth Seymour, Farnborough, England, assignors, by mesne assignments, to Kelvin & Hughes Limited, a British company
Application February 26, 1948, Serial No. 11,023
In Great Britain October 10, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 10, 1965
9 Claims. (Cl. 40—42)



9. A mechanism for producing, from movement corresponding to north-south mileage, movement proportional to the change with latitude in the relation of distance as represented on Mercator's projection to true distance, comprising a first shaft driven by the north-south shaft of a ground position indicator, a second shaft driven by the east-west shaft of said ground position indicator, a first differential gear having a first input, a second input and an output, said first input being driven by said first shaft, a second differential gear having a first input, a second input and an output, said first input of said second differential gear being driven by said second shaft, a first continuously variable speed friction gear having a driving disc and a driven wheel slidable longitudinally across the face of said disc, means for driving the disc of said friction gear from said first shaft, means whereby the second input of said first differential gear is driven by said wheel, a second continuously variable speed friction gear having a driving disc and a driven wheel slidable longitudinally across the face of said disc, means for driving the disc of said second friction gear from said second shaft, means whereby the second input of said second differential gear is driven by the wheel of said second friction gear, a common carrier for the wheels of said friction gears for sliding said wheels longitudinally across the faces of said discs, said carrier having a rack along one edge thereof, a worm gear, means for driving said worm gear from said first shaft, a driving lever pivoted between its two ends, said lever having a toothed quadrant gear at one end engageable with said worm gear and a rectilinear longitudinal slot, a gear lever pivoted between its ends, said gear lever having a toothed quadrant gear at one end engageable with the rack of said carrier and a rectilinear longitudinal slot, a straight channel section guide, a block slidable in said guide, said block having a pin therein for engagement with the slots in said levers, whereby movement of said driving lever about its pivot point causes the block to slide in the guide with a corresponding movement of said gear lever about its pivot point thereby causing said carrier to slide longitudinally and varying the drive ratio of the variable speed friction gears, the path of said block in said guide being a straight line intersecting a straight line through the pivot points of the two levers at an appropriate angle greater than ninety degrees, means driven by the output of said differential gears for continuously indicating the corrected position on a map drawn to Mercator's projection, means for manual adjustment of the first and second shafts for adjusting the position indicator on the map to correspond to the position of a craft on the earth's surface, and means for manual adjustment of the adjustable guide member for presetting the drive ratio of said variable gears to correspond to the setting of said position indicator on said map.

2,588,764
VEGETABLE HARVESTER
Ralph R. Richmond, Gun Plains Township, Allegan County, Mich.
Application December 11, 1947, Serial No. 791,089
15 Claims. (Cl. 56—327)

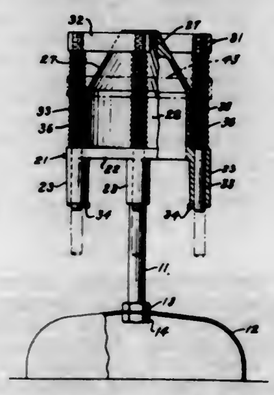


1. Vegetable harvesting mechanism for attachment to a tractor comprising, an inclined framework removably and pivotally mounted near the rear and along one side of the tractor and extending forwardly and downwardly to adjacent to the ground, a conveyor belt of link construction having its upper reach supported upon said inclined framework, a cross shaft carried by the upper end of said inclined framework for rotating said conveyor belt, means for driving said shaft from a power take-off connection of said tractor, a generally vertical framework secured to the front end of said inclined framework, means including a manually operable rocker shaft secured to the side of said tractor and connected to said vertical framework for adjustably supporting the said vertical framework, a pair of generally vertical shafts mounted on said vertical framework, a pair of disks secured to the lower ends of said vertical shafts and lapped one upon the other, the rear edges of said disks being disposed above the lower end of said conveyor belt, a blocking bar projecting from the lower end of said inclined framework beneath said disks and having an upturned flange on the forward edge thereof disposed between the meeting edges of said disks, a second cross shaft carried by said vertical framework and arranged to drive said vertical shafts in opposite rearwardly diverging directions, belt means for driving said second shaft from said first shaft, front and rear cross shafts mounted at the top and bottom of said inclined framework and above said conveyor, a pair of chain loops carried by said front and rear shafts, flights of follower bars carried by said chain loops, the flights on the lower reaches of said chain loops being translatable along the upper reach of said conveyor belt, and gear means for driving one of said front and rear shafts from said first shaft and at a slower speed than said first shaft.

2,588,765
LUBRICATED PHOTOGRAPHIC ELEMENT CONTAINING A MIXTURE OF HIGHER FATTY ALCOHOLS AND HIGHER FATTY ACIDS
Willem P. M. J. Robijns, Mortsel-Antwerp, Belgium, assignor to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium
No Drawing. Application April 23, 1946, Serial No. 664,422. In Belgium March 21, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 21, 1964
8 Claims. (Cl. 95—9)

1. A photographic material comprising a support coated with several colloid layers of which at least one layer contains a silver halide, at least one outer layer of said colloid layers containing a homogeneous suspension in water of at least one completely saponified ester of a saturated higher fatty alcohol and a saturated higher fatty acid in the presence of both a base and its salts.

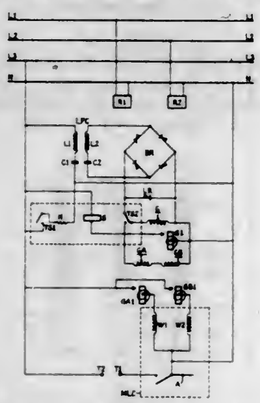
2,588,766
AUTOMOBILE WHEEL BALANCER
Cecil B. Rogers, Berkeley, Calif.
Application June 10, 1949, Serial No. 98,208
1 Claim. (Cl. 73—66)



In an automobile wheel balancer, a standard, a base frame universally mounted on said stand-

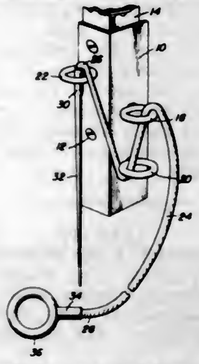
ard for universal tilting with respect thereto; said base frame comprising a body including a cylindrical portion and an overlying truncated cone portion; said truncated cone portion having its uppermost plane normally disposed horizontally with no load on the balancer, an annular flange on said cylindrical portion; said flange having a plurality of circumferentially spaced openings therein, a plurality of sockets depending from said flange in alignment with the openings thereof, a spirit level mounted on said cone portion with the level disposed in the uppermost plane thereof so as to be centered with no load on the balancer, and an auxiliary frame movably mounted on said base frame for movement toward and away from said base frame flange; said auxiliary frame consisting of a ring surrounding said cone portion of said base frame and having a flat upper surface disposed normally co-planar with the uppermost plane of said cone portion with no load on said ring; said ring having a plurality of circumferentially spaced threaded openings therein in alignment with said sockets, a rod removably secured to each of said threaded openings of said ring and extending through said flange openings into said sockets, and a spring coiled about each of said rods and confined between said base frame flange and said ring to support said ring above said flange; said spring permitting depression of said ring toward said flange when a load is placed on the upper surface of said ring to bring the load into engagement with the cone portion of said base frame and thereby universally tilt said base frame if the load is statically unbalanced and thus move the level away from center, the base frame and the level being adapted to be returned to initial positions upon static balancing of the load.

2,588,767
ELECTRICAL SIGNALING SYSTEM
Philip Norton Roseby, Liverpool, England, assignor to Automatic Telephone & Electric Company Limited, Liverpool, England, a British company
Application April 8, 1946, Serial No. 660,333
In Great Britain May 19, 1945
2 Claims. (Cl. 177—353)



1. In an electrical signalling system for effecting the remote control of a plurality of devices by high frequency currents superimposed on electric supply mains, first means associated with each device and responsive to signalling currents of one character, second means associated with each device and responsive to signalling currents of a different character, an electromagnet energized on the operation of said first means, a blade pivoted about one end, means operated by said electromagnet for moving said blade about its pivot, a second blade substantially in line with said first blade and pivoted about its end adjacent to the pivot point for said first blade, a tension spring connecting said blades substantially along the line of their length whereby when said first blade is moved by said electromagnet said second blade will move past its dead center position, means operated by said first blade for energizing a thermally operated switching means, contacts carried by said second blade for disconnecting said first responding means and connecting up said second responding means, and means operated by said thermally operated switching means for moving said first blade back to its original position whereby said thermally operated switching means is deenergized and said second blade is moved to connect up said first responding means again in place of said second responding means.

2,588,768
FISH STRINGER
Ralph R. Rosenberg, Fergus Falls, Minn.
Application November 25, 1947, Serial No. 788,027
2 Claims. (Cl. 224—7)

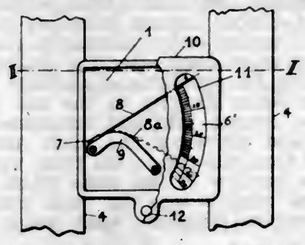


2. A rope fastener comprising a vertically disposed angle iron member including first and second relatively perpendicular side portions, said first side portion having a plurality of apertures therein adapted to receive fasteners whereby the member may be detachably secured to a supporting structural element, a plurality of horizontally disposed eye members projecting outwardly from the second side portion of said member adapted to receive a rope therein, and a further horizontal eye member projecting outwardly from the first side portion of said member and disposed in a horizontal plane above the uppermost of said plurality of eye members and adapted to receive a rope extended through said plurality of eye members.

2,588,769
INSTRUMENT FOR MEASURING HEAT QUANTITIES
Rudolf Ruegg, Zurich, Switzerland
Application August 1, 1949, Serial No. 107,839
In Switzerland August 6, 1948
7 Claims. (Cl. 73—193)

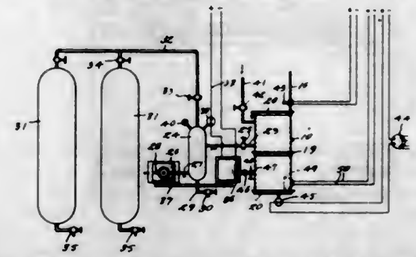
1. An instrument of the character described, comprising in combination a support; a holder carried thereby; an element fixed at one end to said holder and so positioned thereby as to be subject to a flexing tendency developed by gravity, said element being composed of a material which

between approximate temperature limits of 25° C. and 100° C. develops a creep flexure which is a direct function of three independent quantities,



namely, temperature, time and the intensity of said flexing tendency; and a graduated scale against which the flexure of said member may be read, said scale being mounted on said support.

2,588,770
APPARATUS FOR STUNNING OR KILLING ANIMALS
Luther E. Sadler, Los Angeles, Calif., assignor of twenty-five per cent to Byron R. Bentley, Los Angeles, Calif.
Application October 31, 1949, Serial No. 124,549
1 Claim. (Cl. 128—1)

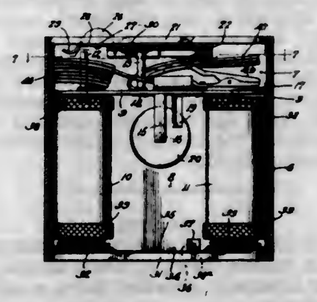


An apparatus for killing animals without exterior evidence of injury comprised of an air tight chamber, an intermediate tank, a fluid connection between said tank and said chamber, a valve in said connection, and evacuating pump, a source of energy for actuating said pump, a fluid connection between said pump and said tank, a pressure responsive switch operable by the pressure in said tank for energizing and de-energizing said pump, a first main tank, a fluid connection between said main tank and said intermediate tank, a valve in said last mentioned connection, a second main tank, a connection between said second main tank and said connection between said first main tank and said intermediate tank, valve means in said last mentioned connection, and second valve means in said connection between said first main tank and said intermediate tank whereby either or both of said main tanks may be selectively placed in communication with said intermediate tank for evacuation by said pump.

2,588,771
METHOD OF MAKING POLYOXYALKYLENE ETHERS
B. Robert Schwartz, Union, N. J., assignor to Hart Products Corporation, a corporation of New York
No Drawing. Application June 21, 1949, Serial No. 100,541
7 Claims. (Cl. 260—609)

1. In making a polyoxyalkylene ether, the method which comprises forming a mixture containing approximately 2 mols at least of a nonvolatile alkali, 1 mol at least of a polyhalogenated linking agent, 1 mol of a polyglycol, and 1 mol of an acidic compound selected from the group consisting of mercaptans, phenols and cresols, heating the mixture to a temperature within the range 100° to 250° C., continuing the heating until there is formed a halide salt of the electropositive component of the said alkali and a polyoxyalkylene ether and until there is no substantial additional formation of the said salt, and then separating the salt from the polyoxyalkylene ether, the polyoxyalkylene ether including a residue representing the linking agent less at least 2 halogen atoms and this residue linking the group representing the polyglycol less 1 hydrogen of an original hydroxyl radical and a second group representing the said acidic compound less 1 replaceable hydrogen.

2,588,772
COMBINED FLASHLIGHT AND CIRCUIT TESTER
Byron Sill, Galveston, Tex.
Application June 29, 1950, Serial No. 171,113
5 Claims. (Cl. 175—183)



5. A portable flashlight and circuit tester, comprising in combination, a casing having a bottom and side walls, a partition mounted within the casing and providing upper and lower compartments therein, a cover for said upper compartment, means mounting said cover on said casing for movement to and from open and closed positions, at least two batteries in said lower compartment, means mounted on said casing bottom and electrically connecting said batteries together, a reflector, a light bulb mounted therein, said reflector and bulb extending into said lower compartment through a wall thereof, three contact pins fixed in said partition in spaced insulated relation, a first and second pin being electrically connected to separate batteries, means electrically connecting the third pin to said bulb, means electrically connecting said first pin to said reflector, movable switch means on said cover for electrically connecting said second and third pins when said cover is in said closed position so as to open and close a circuit to said bulb, a pair of circuit testing leads stored in said upper compartment and accessible when said cover is open, and said leads having inner ends electrically connected to two of said pins.

2,588,773
SOAP HOLDING AND LATHERING SPONGE
Andrew G. Smith, Detroit, Mich.
Application March 22, 1948, Serial No. 16,311
1 Claim. (Cl. 15—122)

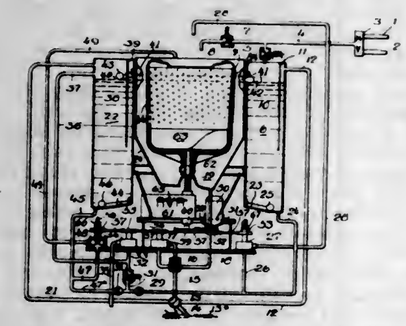
A sponge comprising a body of porous sponge rubber formed with a cavity in the median plane thereof adapted to contain a bar of soap, said

body having ducts therein extending from the cavity to the surface of the body for admitting liquid into the cavity to form a lather with the soap and be discharged out of said ducts, said body having a slit extending therein to the cavity for spreading apart to form an opening for introducing a bar of soap into the cavity, said slit being stepped along its inner edge to form a lip along said edge normally seating in a conforming



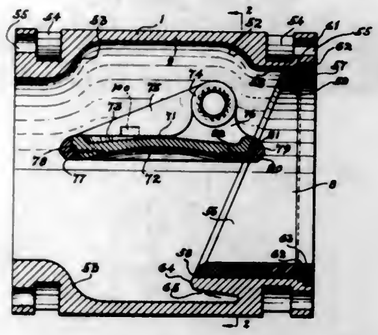
groove to form a seal along said edge of the slit for preventing the bar of soap from working into the slit, spreading the slit apart, and slipping out of said slit, and a pair of opposed strips of flexible material fixed in the slit outwardly of said lip and provided with snap action fasteners for securing the same together to maintain the slit closed, said lip when the opening is closed overlapping the inner edges of said strips to form a seal along said edges.

2,588,774
AUTOMATIC WASHING MACHINE
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application May 27, 1947, Serial No. 750,665
17 Claims. (Cl. 68—12)



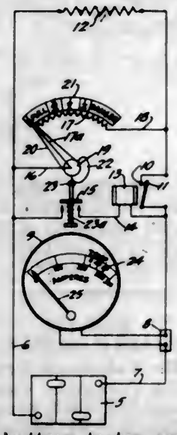
1. In a clothes washing machine, a tub for receiving clothes to be washed, a rinse water tank, a wash water tank, a conduit for cross-connecting the upper portion of the rinse water tank to the wash water tank and said connection defining a liquid level for the rinse water tank, electrically controlled valve means for admitting water to one of said tanks whereby such water will fill said tank and flow through the conduit into and fill the other tank, means dependent upon the water level in the tanks for closing said valve means to interrupt the flow of water thereto, means for withdrawing wash water from the wash water tank for delivery to the tub, drive means for effecting a washing operation in said tub and for removing wash water from the tub after a predetermined length of time for delivery back to the wash water tank, means for delivering rinse water from the rinse water tank to the tub for rinsing the clothes, means including said drive means for removing and returning the rinse water to the rinse water tank after the rinsing operation, a valve for supplying a quantity of fresh flush rinse water directly to the tub for flush rinsing the clothes, said last mentioned means removing and delivering the flush rinse water discharged from the tub to the rinse water tank to cause a portion of the rinse water to flow through the conduit into the wash water tank, and an overflow from the wash water tank to drain.

2,588,775
PIVOTED VALVE APPARATUS
Michael Smolensky, Cleveland, Ohio
Application February 2, 1945, Serial No. 575,811
2 Claims. (Cl. 251—123)



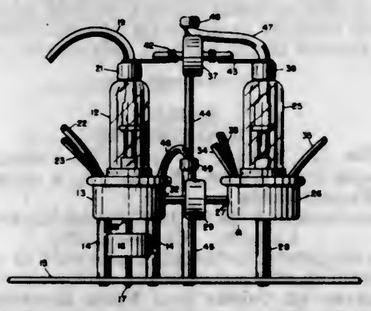
1. A valve apparatus having in combination a body of substantially annular shape in cross section and having integral reduced end portions adapted to be connected in a pipe line and a pivoted valve element in said body, the inner wall of one end portion of said body and adjacent its open end thereof being enlarged to form an annular shoulder, a cylindrical member mounted in said last mentioned end portion and provided at its outer end with an annular wall forming an annular shoulder seated against said first mentioned annular shoulder, the inner end wall of said cylindrical member being disposed at an inclined angle and the inner wall of said member, extending inwardly of said inclined end wall, being circumferentially recessed, a valve seat element mounted in said circumferential recess with its outer end against the rear wall thereof, the inner end of said valve seat element being inclined and terminating coincidently with the inclined end of said cylindrical member and forming a seat for said valve element, transversely disposed pivotal means provided in opposite wall portions of said body intermediate said reduced ends for supporting said valve element, projecting pivot elements provided on the rearward face of said valve element at a point displaced a predetermined distance toward the edge portion of said element from the central transverse diameter thereof and engaged with said pivotal means, whereby areas of said element will move through shorter and longer paths of movement when said element moves toward or away from said seat and the water pressure against said element on one side of said pivot will be greatly in excess of the pressure on the otherside thereof.

2,588,776
APPARATUS FOR TESTING STORAGE BATTERIES
George S. Tanner, St. Croix Beach, Minn., assignor to Gould-National Batteries, Inc., St. Paul, Minn., a corporation of Delaware
Application May 26, 1950, Serial No. 164,344
14 Claims. (Cl. 175—183)



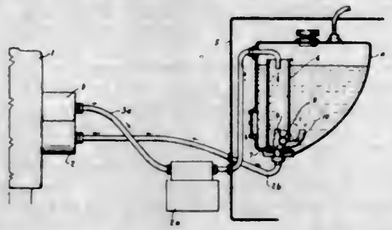
3. A storage battery tester comprising, a load circuit having a fixed low resistance adapted to be connected across the terminals of a battery, a second load circuit including a variable resistance adapted to be connected across the terminals of a battery, the ohmage value of said variable resistance being from 5 to 50 times greater than that of the first mentioned load circuit and a condition indicator which is modified in its indications by the position of said variable resistance and capable of giving a final reading which is proportional to the current flowing in said second circuit exclusive of that flowing in said first mentioned circuit when current of predetermined fixed value is flowing in said load circuits.

2,588,777
HIGH-VOLTAGE SUPPLY
Donald E. Thompson, Passaic, N. J., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application September 9, 1949, Serial No. 114,727
10 Claims. (Cl. 321—15)



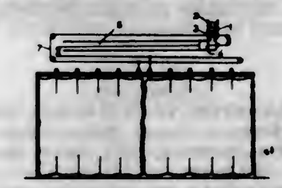
1. In an electrical high voltage circuit a source of voltage, electrical terminals connected thereto, a pair of electrically conductive shielding members shielding and electrically connected to said terminals and having substantially parallel and planar surfaces, an impedance element extending between and connecting said members, said element having rigid terminals and being supported and retained in position by its terminals abutting respectively in frictional engagement with said shielding members, the ends of said impedance element terminals extending beyond the planes of the respective surfaces of each said shielding member.

2,588,778
OIL TANK HOPPER BY-PASS CONTROL
Clement Tibeau, Assiniboia, Saskatchewan, Canada
Application December 15, 1944, Serial No. 568,357
2 Claims. (Cl. 137—21)



1. An oil flow control device for engine lubricating systems comprising an oil supply tank, a hopper interposed in the oil flow line of the lubricating system and disposed in said tank, said hopper having its upper end in open communication with the tank above the oil level a by-pass valve disposed in the bottom of said hopper having connection with the oil flow line and provided with intake ducts communicating with said hopper and said tank, said valve including a pivoted gate to control the flow of oil through said ducts, a shaft for rotating said gate extending through the wall of said hopper, a helical thermostat mounted on said shaft within said hopper for rotating the shaft, and a second helical thermostat mounted on the outer end of said shaft within the oil supply tank for rotating said shaft, said thermostats normally moving the gate of said valve to close the duct communicating with said tank but upon an increase in temperature to move said gate to open the duct communicating with said tank and restrict the duct communicating with said hopper.

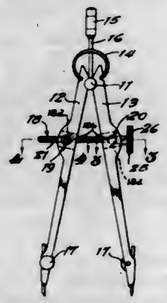
2,588,779
ELECTRIC PNEUMATIC DRIVING DEVICE FOR A MECHANISM HAVING TO MAKE A RECIPROCATING MOVEMENT OF LIMITED LENGTH AT ARBITRARY MOMENTS
Bastiaan Jan van der Stigchel, The Hague, Netherlands
Application January 28, 1947, Serial No. 724,808
In the Netherlands November 9, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires November 9, 1960
12 Claims. (Cl. 60—51)



1. An elastic fluid drive mechanism for executing movements in two opposite directions and thereby moving an external member, including the combination of a housing comprising bounding walls enclosing a chamber and having

one end open to the atmosphere and the other end closed; two prime movers disposed serially spaced apart in the chamber within the housing; a pair of rotary multi-vaned air pump impellers individually and independently mounted on the prime movers in such fashion as to be directly driven thereby, said rotary multi-vaned air pump impellers together with said prime movers forming two independent air pumps mounted for alternative opposite operation to induce oppositely directed air currents in said chamber and each air pump being capable of providing and controlling the entire movement of air intended to pass through said chamber in response to the vacuum or pressure produced by the air pump involved; means for selectively impelling one or the other of said air pumps; stationary walls forming a reservoir for an elastic fluid; conduit means interconnecting the reservoir and said chamber through the closed end of said housing; a movable wall positioned within the stationary walls of said reservoir to form part of the latter; and an operative connection between said movable wall and said external member for moving the latter in one direction or the other in accordance with the movement executed by said movable wall.

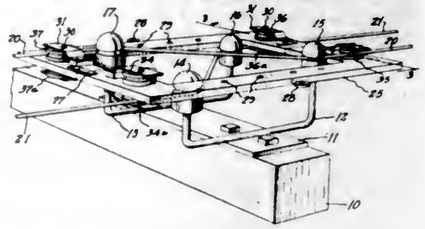
2,588,780
COMPASS AND THE LIKE
Carl A. van Pappelendam, Monrovia, Calif.
Application July 11, 1949, Serial No. 103,972
19 Claims. (Cl. 33—154)



5. In a device of the class described, first and second legs pivotally connected, an adjusting rotary screw element extended through each leg and between said legs at a distance from the pivotal axis, a rotatable element seating said screw element in each leg and having its axis parallel to the pivotal axis, one of said rotatable elements having relatively displaceable members each encircling said screw element to form a guideway therefor and being interiorly threaded for a portion of said guideway to engage and seat the threads of said screw element in certain positions, extending upon opposite sides of the leg in which it is positioned, said displaceable members being manually movable between positions to engage and to disengage said screw element.

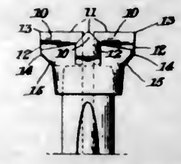
2,588,781
WIRE TRANSPOSITION REPAIR BRACKET
Henry J. Venus, Baker, Oreg.
Application August 2, 1947, Serial No. 765,672
5 Claims. (Cl. 174—33)

4. A transposition repair bracket comprising an open-center elongated rectangular frame, a pair of joints in said frame for opening the frame to encircle a cross arm fixture or the like between the wires at a transposition point in a pair of conductor wires mounted on wire supports on said fixture, and pairs of wire-engaging elements on opposite ends of said frame spaced longitudinally of the wires a greater distance apart than



the longitudinal spacing of the wire supports on said fixture, the wire-engaging elements of each pair being spaced laterally approximately the same distance apart as the lateral spacing of the wire supports on said fixture.

2,588,782
DETACHABLE DRILLING BIT
Tilmer Manville Waterland, Britannia Beach, British Columbia, Canada
Application March 3, 1947, Serial No. 732,097
4 Claims. (Cl. 255—64)

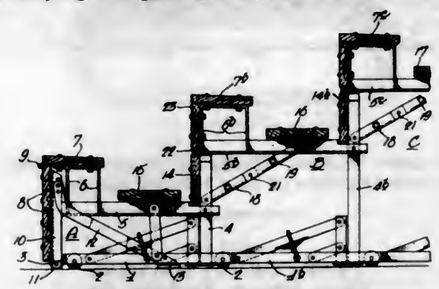


4. A percussive drill bit comprising in combination, a substantially cylindrical bit body, a socket formed in the upper portion of said body, a plurality of V-shaped wings extending radially outwards from the lowest portion of said body, said wings terminating in arcuate peripheral end reaming surfaces, flattened impact cutting surfaces formed on the apex of each wing and extending transversely to the axis of the bit, the ratio of the widths of a wing and the flat portion of its cutting edge lying in the range of 5:1 and 10:1, said reaming surfaces sloping upwards and inwards from said flattened cutting surface at an angle of approximately 2° to the axis of the bit, and shoulders above said reaming surfaces extending from the top edge of each reaming surface to the external surface of said socket and sloping inwards at an angle of substantially 45° with respect to the vertical axis of the bit.

2,588,783
GRANDSTAND
Charles H. Wetzel, Wayne, Pa., assignor to Wayne Iron Works, Wayne, Pa., a corporation of Pennsylvania
Application June 29, 1948, Serial No. 35,821
1 Claim. (Cl. 20—1.126)

A grandstand including a plurality of sections arranged in stepped relation, said sections being supported on rollers and being movable rearwardly to a position underlying the next higher section, a panel at the forward end of the lowermost section, said panel depending from hinges at its upper edge and being movable upwardly and outwardly about said hinges, a pair of links pivotally connected together and respectively to the rear of the panel and to a relatively fixed part of the said lowermost section, said links

being arranged so that when the panel is dependent from the hinge substantially in vertical position the connected ends of the links extend downwardly into proximity of the floor surface underlying the grandstand, and when the panel

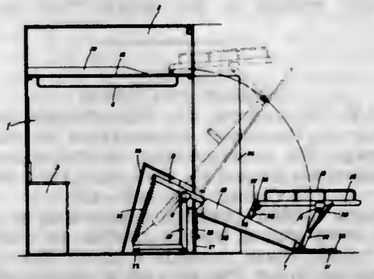


is elevated about the hinges the links are extended and are also elevated from the said floor surface, and an anchor pad at the said connected ends of the links arranged for frictional engagement with the floor surface only when the panel is in the said dependent position.

2,588,784
ANION EXCHANGE RESINS FROM ALKYLENE POLYAMINE META PHENYLENE DIAMINE, FORMALDEHYDE AND ACETONE
Donald Whittaker and Graham George Allen, Northwich, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application January 9, 1950, Serial No. 137,668. In Great Britain January 12, 1949
7 Claims. (Cl. 260—64)

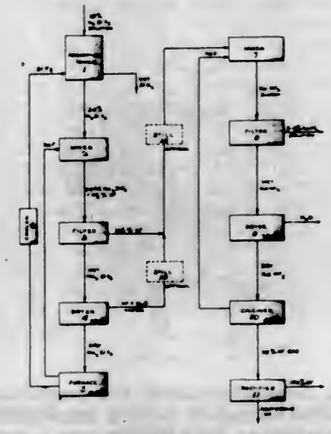
5. An anion exchange resin obtained by reacting together 10 parts of alkylene polyamine containing up to 40% of water, from 2 to 6 parts of acetone, from 1 to 3 parts of metaphenylene diamine, and formaldehyde equivalent to that contained in from 5 to 15 parts of 40% aqueous formaldehyde, all parts being by weight, said resin being characterized by having an absorption capacity exceeding 1 milliequivalent per cc., and an average loss on regeneration after 25 cycles of less than 0.05% per cycle.

2,588,785
CEILING BED
Victor R. Will, Sacramento, Calif.
Application March 13, 1945, Serial No. 582,456
7 Claims. (Cl. 5—10)



1. A folding bed comprising the combination with a room having a ceiling compartment of a bed frame normally but removably disposed in said compartment, and means for removing the bed frame from and returning it to said compartment, said means including a normally upstanding frame mounted in the room for forward and downward swinging movement from its normal upstanding position to a lowered position adjacent the floor of the room, arms projecting outwardly from the normal upper end of the frame, and which arms project substantially horizontally into the compartment when the main frame is in upstanding position and extending upwardly when the frame is in its lowered position, the bed frame being pivotally connected to said arms, and means to releasably lock the bed frame in horizontal position to the main frame when the latter is in lowered position, such last named means comprising an ear on one frame and a finger on the other frame, then overlapping the ear, and a removable cross pin for connecting the ear and finger together.

2,588,786
PROCESS FOR PRODUCING ESSENTIALLY SILICON-FREE HYDROFLUORIC ACID FROM HYDROFLUOSILICIC ACID
Ernest A. Winter, College Park, Ga., assignor to Tennessee Corporation, New York, N. Y., a corporation of New York
Application June 23, 1948, Serial No. 34,716
8 Claims. (Cl. 23—153)

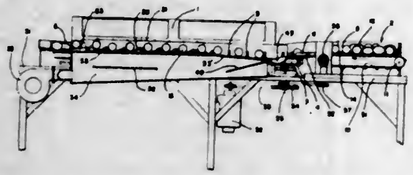


1. In a process for obtaining hydrofluoric acid from hydrofluosilicic acid the steps of treating a solution of hydrofluosilicic acid with sodium fluoride to form hydrofluoric acid in solution and precipitate sodium fluosilicate, separating the sodium fluosilicate from the hydrofluoric acid solution, heat treating the sodium fluosilicate to obtain sodium fluoride, cycling the sodium fluoride back to the step of mixing the solution of hydrofluosilicic acid with sodium fluoride, treating the hydrofluoric acid solution with sodium fluoride to precipitate sodium bifluoride, separating the precipitated sodium bifluoride and heat treating the sodium bifluoride to obtain a concentrated hydrofluoric acid.

2,588,787
EGG DRIER
Forrest B. Wright, Ithaca, N. Y., assignor, by mesne assignments, to Research Corporation, New York, N. Y., a corporation of New York
Application May 2, 1947, Serial No. 745,547
4 Claims. (Cl. 34—71)

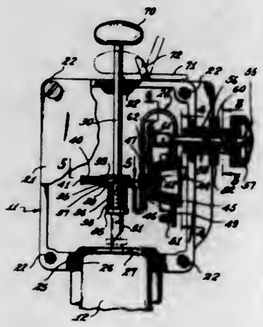
2. In a drier, the combination of a drying air box, a conveyor having projections and openings between the projections, said conveyor passing over said box, a porous flexible covering support-

ing the objects to be dried and extending over one portion of the conveyor so as to be undulated by its projections, the drying air passing thru the openings in the conveyor and thru the flexible



covering, a succeeding uncovered portion of the conveyor thru which the drying air also passes, and means for regulating the proportions of air that pass thru the covered and the uncovered parts of the conveyor.

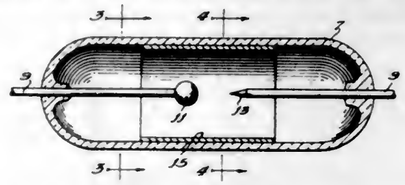
2,588,788
AUTOMATICALLY ACTUATED FIRE EXTINGUISHER
Parker R. Zell, Los Angeles, Calif.
Application November 12, 1949, Serial No. 126,805
19 Claims. (Cl. 169—26)



1. In a fire extinguisher, the combination of: a disposable container having pressurized combustion inhibiting fluid therein and a rupturable seal to retain said fluid; a cutter member supported adjacent said seal for movement toward said container to rupture said seal and release said fluid; and actuating means for said cutter member including an inertia member having an annular fulcrum portion, being rockably mounted on said annular fulcrum for impact responsive movement in any direction in the plane of said fulcrum, and operatively connected at a point substantially at the center of said fulcrum to said cutter member to effect movement thereof upon an impact of a predetermined force in said plane to rupture said seal as aforesaid.

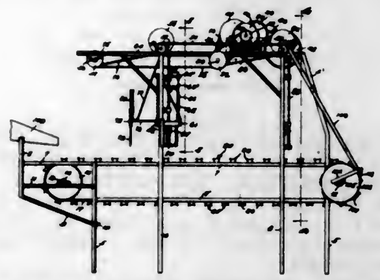
2,588,789
NEUTRON DETECTOR
Walter H. Zinn, Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application May 22, 1945, Serial No. 595,188
4 Claims. (Cl. 313—93)

1. A neutron responsive device of the class described comprising a sealed, tubularly shaped, glass envelope containing an ionizable gas and a pair of spaced electrodes, one of said electrodes having a pointed inner end of the other of said electrodes having a rounded inner end, and a coating of a material which emits alpha parti-



cles upon neutron irradiation thereof applied to the inner surface of said tubular envelope.

2,588,790
PEAR CORING MACHINE
Eston Altman, Valdosta, Ga.
Application July 23, 1947, Serial No. 763,003
4 Claims. (Cl. 146—40)

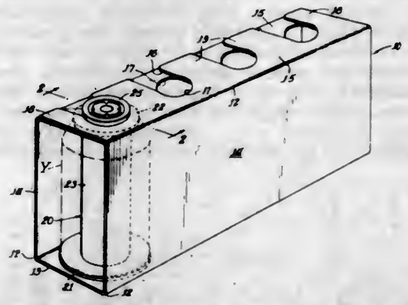


1. A machine for slicing and coring fruit, comprising a frame, an endless carrier mounted for horizontal movement over the frame, groups of fruit receiving cups mounted on the endless carrier and arranged side by side, each of the groups comprising an intermediate cup having slots formed in the side wall thereof, and lateral shallow fruit receiving cups arranged on the endless carrier at opposite sides of the intermediate cup, pairs of vertically reciprocating halving blades mounted on the frame operating with their side faces disposed towards the lateral shallow cups and being movable through said slots halving fruit contained in the intermediate cups, a drill movable with the reciprocating blades and operating between the blades adapted to remove the center of the fruit as the blades move through the fruit, means for tilting the fruit halves laterally, the halves of the fruit falling into the lateral fruit receiving cups, with their core sides disposed upwardly, and coring members for coring the fruit resting in the lateral fruit receiving cups.

2,588,791
BOBBIN PACKAGE
James B. W. Andrew, Jr., Philadelphia, Pa., assignor to Container Corporation of America, Chicago, Ill., a corporation of Delaware
Application August 14, 1948, Serial No. 44,369
1 Claim. (Cl. 206—46)

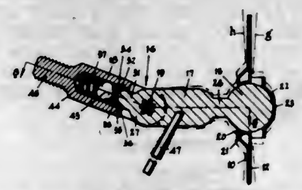
A yarn bobbin package comprising a paperboard wrap and a bobbin having an end plate from which there extends a knob element including an outer flange and a restricted neck portion of predetermined length and diameter between the flange and end plate, said paperboard wrap comprising a bottom wall, a pair of side walls hinged on opposite edges of the bottom wall, and a pair of top flaps each hinged on the upper edge of a side wall and overlapping

when in closed position, one of said flaps having a slot therein with a closed end portion frictionally engaging a major part of the circumference of the bobbin neck portion, the other flap being formed with an edge portion frictionally engaging a major portion of the neck circumference in opposed relation to a part of said closed end portion, the thickness of the two overlapped



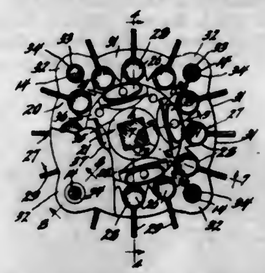
flaps being slightly greater than the length of the bobbin knob neck for frictional engagement of said overlapped flaps between the knob flange and end plate in closed position, the frictional engagements of the flaps with the neck circumference and the frictional engagement of the overlapped flaps between the flange and the end plate of the bobbin serving to lock the flaps in closed position.

2,588,792
ADJUSTABLE MOUNTING FOR AUTOMOBILE REARVIEW MIRRORS
Dwight Wilson Barkley, Cheswick, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 26, 1947, Serial No. 788,119
3 Claims. (Cl. 88—98)



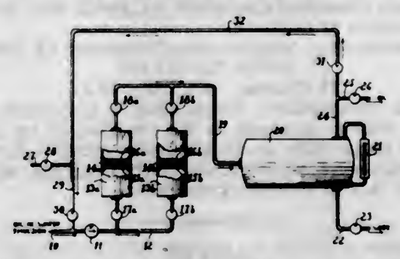
1. In a multiple position rear view vehicular mirror, a pair of supporting arms arranged end to end and pivotally connected together at their adjacent ends for movement relative to one another about a substantially horizontal axis, one of said arms adapted to be fixedly secured to a rigid part of the vehicle, a mirror carried by the other arm and movable relative to said first arm about said axis to produce three separate individual images of different light intensities, each of which images is selectively movable into the driver's field of vision by tilting of said mirror, one of said arms being provided with an axial chamber and the other with a finger extending into the open end of said chamber and terminating in spaced, relatively sharp edges, a locking ball in said chamber, and a spring in back of said ball for constantly urging it toward the finger and for maintaining said ball in yieldable engagement with said finger either outwardly of said relatively sharp edges or between said edges upon angular adjustment of the movable arm and mirror carried thereby to maintain the mirror in any one of the three selected angular positions.

2,588,793
ROTARY SELECTOR SWITCH
Leon G. Barry, Whippany, N. J., assignor to United States Instrument Corporation, Summit, N. J., a corporation of New Jersey
Application July 28, 1950, Serial No. 176,465
7 Claims. (Cl. 200—6)



1. A rotary switch unit comprising a stator and a rotor, said stator being formed of molded plastic and being provided with a plurality of upstanding projections arranged in a circle, and a contact member associated with each said projection and having a tubular portion encircling said projection and a straight portion projecting radially outwardly of said stator, said rotor being concentric with and of smaller diameter than said stator, and being formed of molded plastic and generally circular in outline, and being provided with a plurality of upstanding projections spaced about its periphery, a bridging contact mounted on each said rotor projection and having an outer dimension at least equal to the distance between two adjacent stator contacts, spring means urging said bridging contacts outwardly to engage said stator contacts, means permanently secured to said rotor for holding said bridging contacts in position, and cover means permanently secured to said stator for holding said stator contacts and said rotor in position, the whole constituting a permanently integrated unit.

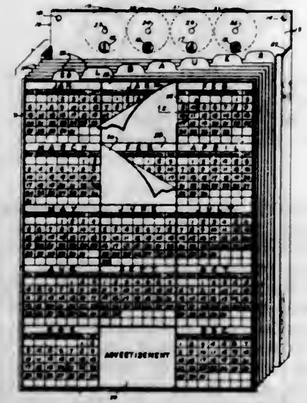
2,588,794
METHOD OF SEPARATING OIL FROM WATER
Paul D. Barton, Phoenixville, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application July 25, 1946, Serial No. 686,109
6 Claims. (Cl. 210—2)



1. Method of removing oil from an oil-in-water suspension containing a relatively minute amount, less than 200 p. p. m., of petroleum distillate oil in finely dispersed form which comprises introducing said suspension into a bed of glass wool having a fiber diameter less than 0.001 inch, passing the mixture through said bed and in intimate contact with the glass wool, maintaining the rate of flow sufficiently low to effect

a coalescence of the dispersed oil particles, permitting the thus treated mixture to separate by gravitation into an oil layer and a water layer and withdrawing the separate layers.

2,588,795
PERPETUAL CALENDAR
Edward L. Bauer, Austin, Tex.
Application March 1, 1949, Serial No. 78,917
2 Claims. (Cl. 40—107)



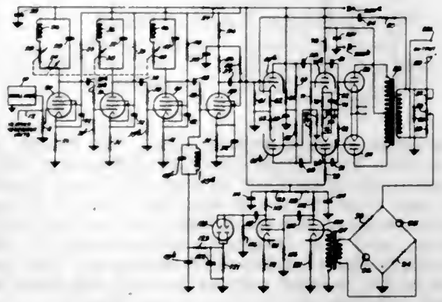
1. A calendar sheet having thereon twelve regular year month calendars and two extra month calendars for January and February of leap years, the month calendars being in the form of rectangles, the month calendars for January and February of regular and leap years being formed with slots along opposite sides thereof, and two rectangular cover sheets for the last-mentioned month calendar rectangles, said cover sheets having tabs on opposite sides thereof removably insertable in the slots of the last-mentioned calendar month rectangles to cover the leap year January and February rectangles during a leap year and to cover the regular January and February rectangles during a leap year.

2,588,796
COMPOSITIONS CONTAINING ORGANIC POLYMERIC SULFIDES AND METAL SALTS OF 8-HYDROXYQUINOLINE AND METHOD OF PREPARING SAME
Paul G. Benignus, Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 28, 1949, Serial No. 118,469
12 Claims. (Cl. 260—79.1)

1. A composition comprising a polymeric organic sulfide obtained by the reaction of an inorganic polysulfide on an aliphatic dihalide having the halogens on separate carbon atoms and a metal salt of 8-hydroxyquinoline.

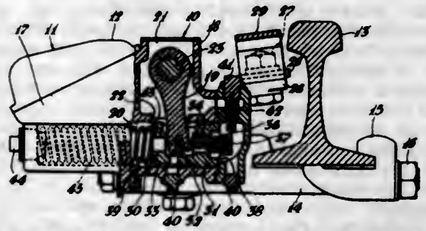
2,588,797
GENERATOR
Warren B. Boast, Ames, Iowa, and John D. Ryder, Champaign, Ill., assignors to Iowa State College Research Foundation, Inc., Ames, Iowa, a corporation of Iowa
Application March 4, 1950, Serial No. 147,621
2 Claims. (Cl. 323—119)

1. A signal generator comprising a source of substantially sinusoidal alternating voltage, a first electron tube having an anode and a control electrode, means connecting the signal source to the control electrode, a first reactive network in circuit with said anode, said network comprising a variable element operable to vary the phase angle thereof, a second electron tube having an anode and a control electrode, means connecting the first network to said second control electrode, a second reactive network in circuit with said second anode, said network comprising a variable element operable to vary the phase angle thereof, means mechanically linking said variable elements to permit their simultaneous manual adjustment over their range of variation, whereby the phase angle of the voltage across said second network with reference to the source voltage may be continuously varied over a range



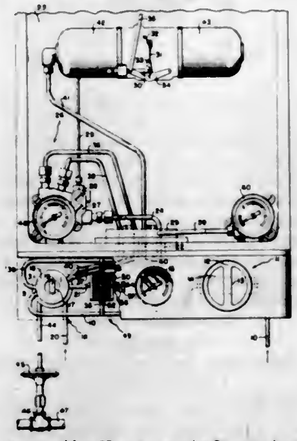
of 360°, an electron tube amplifier having input means and output means, circuit means connecting said second anode to said input means comprising a very high resistance serially connected therein, a feed-back amplifier connected across said output means, rectifier means coupled to said feed-back amplifier operative to derive therefrom a uni-directional voltage, and circuit means operative to apply said uni-directional voltage to said input means, said high-resistance element and said uni-directional voltage cooperating to vary the gain of said amplifier without affecting the load on said second anode and thereby maintaining the magnitude and phase angle of the signal voltage across said output means independent of the characteristics of any load device thereto connected.

2,588,798
BUFFER MEANS
Herbert L. Bone, Forest Hills, and Kenneth J. J. McGowan, Pittsburgh, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Original application November 27, 1948, Serial No. 62,328. Divided and this application August 16, 1949, Serial No. 110,506
2 Claims. (Cl. 267—1)



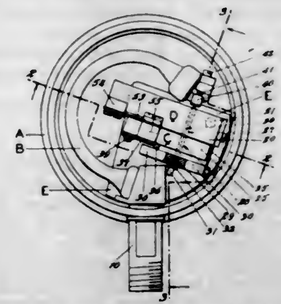
1. In a buffer mechanism, a cylinder, a piston movable within said cylinder, a passage connecting the ends of the cylinder to permit free movement of the piston toward one end of the cylinder, a return spring for said piston, a stop in said cylinder for limiting the free movement of said piston, and a frusto-conical spring disc located on said piston having its periphery projecting toward said stop to absorb shocks due to sudden stopping of the piston by said stop.

2,588,799
MANUAL TRANSFER BETWEEN AUTOMATIC AND MANUAL REGULATING CONTROLLERS
John G. Booth, Philadelphia, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 14, 1947, Serial No. 779,712
4 Claims. (Cl. 137—153)



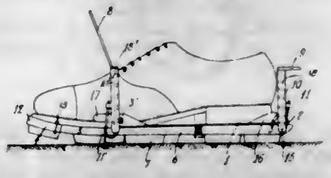
1. A pneumatically-operated control for automatically or manually regulating an action or condition, said control including, piping connections adapted for communication with a supply of compressed air, a manually operable pressure regulator having an inlet connected to said supply and having an outlet, a gauge connected to said outlet for indicating the pressure output from said regulator, a pneumatically operated relay valve having an inlet connected to said supply and having an outlet through which there is an output of air variable under the regulation of a selected control condition, a follow-up unit connected to the outlet of said relay valve and operating to oppose the regulation imposed on said relay valve by said selected control condition, a second gauge connected to the outlet from said relay valve for indicating the output from said relay valve, a control element for regulating an action or condition either manually under the control of said regulator or automatically under the control of said relay valve, and a plug valve comprising a valve body having ports therethrough, each port forming one end of a conduit, port 1 being connected to said supply, port 2 being connected to the inlet of said relay valve, port 3 being connected to said control element, ports 4 and 5 being connected to the outlet from said relay valve and to said second gauge, port 6 being connected to the follow-up unit of said relay valve, port 7 being connected with the outlet from said pressure regulator, port 8 being connected with said control element, and a plug movably mounted in said valve body and selectively manually adjustable to one of the following four positions, "automatic" position in which ports 1 and 2 communicate, ports 3 and 4 communicate, ports 5 and 6 communicate, and ports 7 and 8 are closed, "manual" position in which ports 1 and 2 communicate, ports 3, 4 and 5 are closed, and ports 6, 7 and 8 communicate, "test" or "check" position in which ports 1 and 2 communicate, ports 3 and 4 are closed, ports 5 and 6 communicate and ports 7 and 8 communicate, and "service" position in which ports 1, 3, 2 and 4 are closed, ports 5 and 8 may be optionally open or closed, and ports 7 and 8 communicate, whereby in "service" position said relay valve can be removed from the remaining parts of the control for repair or replacement.

2,588,800
AUTOMATIC FORCE-BALANCE SYSTEM
Oswald C. Brewster, Litchfield, Conn.
Application December 19, 1946, Serial No. 717,156
9 Claims. (Cl. 137—153)



1. In a force-balance system having a primary force element in combination with an automatically regulated fluid pressure balancing means including a baffled leakage control unit, the improvement which comprises a pivoted baffle member, a pivoted lever arm overlying the baffle member, means connecting said lever arm to the primary force element and a contact member between the baffle and lever arm adjustable in position with respect to the axes of said pivoted members to vary the force applied to the primary force element for a given initial force caused by the controlled pressure of the leakage fluid on the baffle.

2,588,801
FOOTWEAR
Louis Marcel Brunet, Tarbes, France
Application August 15, 1950, Serial No. 179,422
In France August 17, 1949
7 Claims. (Cl. 36—7.5)

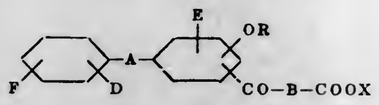


1. A device for attachment to a shoe to permit the foot of the wearer to retain a substantially horizontal position while walking on inclined surfaces comprising, in combination, a substantially flat member securable to the shoe, a second substantially flat member adapted to rest upon the ground when the device is used, at least two spaced-apart connecting means for adjustably connecting said first member with said second member, and means for adjusting both ends of said first member at varying heights with respect to said second member, whereby said

first member may be positioned in parallel relationship in forwardly inclined relationship and in rearwardly inclined relationship relative to said second member.

2,588,802
KETOALIPHATIC ACIDS DERIVED FROM HYDROXY AND ALKOXY DIPHENYL ALKANES AND THE PRODUCTION THEREOF
Robert R. Burtner, Skokie, Ill., and Harry A. Arbit, Los Angeles, Calif., assignors to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application April 10, 1950, Serial No. 155,126
13 Claims. (Cl. 260—520)

1. A compound of the structural formula



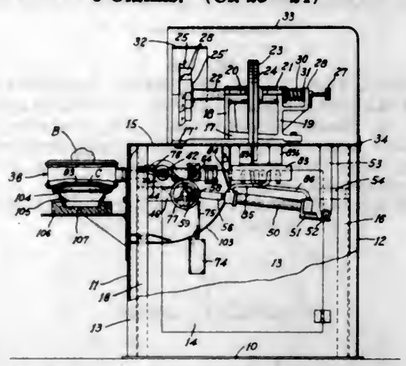
wherein A is a lower bivalent aliphatic hydrocarbon radical containing one to eight carbon atoms, inclusive, B is a lower bivalent aliphatic hydrocarbon radical containing two to eight carbon atoms, inclusive, E and F are members of the class consisting of hydrogen, halogen, lower alkyl, hydroxyl and lower alkoxyl radicals, D is a member of the class consisting of hydrogen, halogen, hydroxyl, lower alkoxyl radicals and radicals of the formula —CO—B—COOX, R is a member of the class consisting of hydrogen and lower alkyl radicals, and X is a member of the group consisting of hydrogen and one equivalent of a cation.

2,588,803
FILM VIEWER
Francis T. Coffey, Sr., Los Angeles, Calif.
Application June 23, 1949, Serial No. 100,771
7 Claims. (Cl. 40—86)



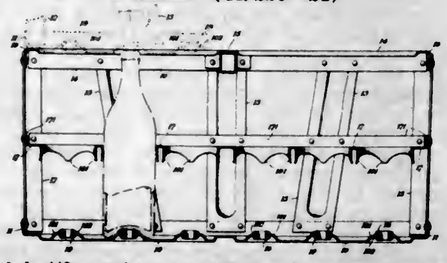
1. A film viewer, comprising a case having a flat side and a peripheral wall, a pair of spools rotatably mounted on and supported solely by said flat side, said spools being rotatable on parallel axes perpendicularly to the flat side of the case, one near the opposite ends thereof, means at the outer flat side of the case for rotating either spool, said case having aligned openings in the opposite portions of said peripheral wall of the case providing a line of sight and located between the two spools, the line of sight being perpendicular to the flat side of the film adapted to extend between the spools, a lens arranged in the line of sight of the case, and a cover normally closing the open side of the case.

2,588,804
AUTOMATIC CLAY SPREADER
William E. Cope, Sebring, Ohio, assignor to Frank M. Kinnard, Sebring, Ohio
Application October 5, 1949; Serial No. 119,663
9 Claims. (Cl. 25—24)



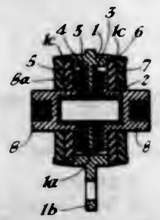
1. A clay spreader machine including a rotating spreader tool, a mold, a pivoted frame, a block swiveled on said frame and having opposite working faces, pressure fluid means automatically oscillating said frame on its pivot, and ratchet gear means rotating the block as the frame moves in one direction to bring said working faces alternately into position adjacent the spreader tool and adjacent the mold.

2,588,805
CRATE FOR BOTTLES AND LIKE CONTAINERS
Reginald Jack Cross, Gravesend, England, assignor of one-half to Essex Aero Limited, Gravesend, England
Application February 29, 1948, Serial No. 12,181
In Great Britain December 5, 1947
1 Claim. (Cl. 220—21)



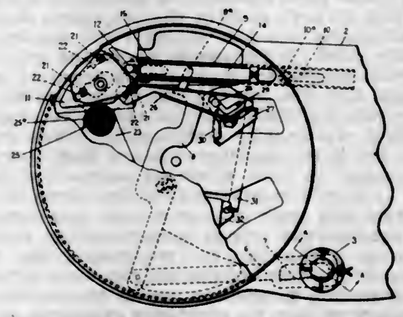
A bottle crate comprising a framework of vertical and horizontal members, a floor supported on said framework, and means dividing the interior of said crate into a plurality of compartments for individual bottles, said floor being formed to provide a general plane slightly narrower and shorter than said framework and slightly below the lower edges of said framework and adapted to project downwardly into the next lower crate when stacked, the floor being dished upwardly in each compartment, and a plurality of perforations in said floor, one centrally of each said compartment, and a resilient grommet in each said perforation, said grommet being fixedly secured to the inwardly directed edge of said perforation and extending above and below the said edge, the lower portion of said grommet terminating within said dished portion, the height of said crate being substantially that of the bottles to be accommodated, whereby the tops of the bottles in a lower crate may engage the bottoms of the grommets of a higher crate when stacked.

2,588,806
ALTERNATING CURRENT RECTIFIER OF THE DRY SURFACE CONTACT TYPE
Roger Harry Cubitt and Richard Geoffrey Sell, London, England, assignors, by mesne assignments, to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application February 28, 1948, Serial No. 12,008
In Great Britain March 20, 1947
9 Claims. (Cl. 175—366)



1. A rectifier comprising, a hollow metal casing member a portion of which projects inwardly to form a partition, two rectifier elements mounted in said casing member one on each side of said partition and with one side of each of said rectifier elements contiguous to said partition, two terminal elements one connected with the opposite side of each of said rectifier elements, and means for hermetically sealing said rectifier elements and the adjacent end of each of said terminal elements within said casing member.

2,588,807
CHANGE-SPEED FRICTION DRIVE FOR RECORD CHANGERS
Harry da Costa, Snaresbrook, England, assignor to The Plessey Company Limited, Ilford, England, a British company
Application February 27, 1951, Serial No. 212,921
In Great Britain March 30, 1950
5 Claims. (Cl. 74—199)

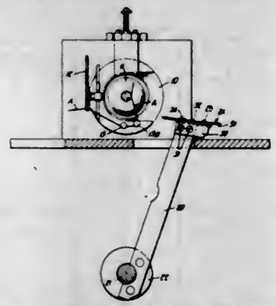


1. In a record changer, a change speed friction drive, the combination of a base plate, a ramp slidably supported on the base, an actuating mechanism fitted to the base plate for transmitting linear movement to the ramp, said mechanism constituting a control knob, a link connected to said control knob through a ratchet device and a crank pivoted to the link projects into a slot provided in said ramp, a platform in a bearing on the base plate, said ramp moving the platform vertically, a carrier plate sliding on said platform, a jockey pulley on said carrier, mechanical means for transmitting horizontal motion to the carrier plate and a variable speed driving pulley in the base plate engaged by said jockey pulley.

2,588,808
OIL BASE FLUID FOR DRILLING WELLS
Reginald D. Dawson, Compton, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 14, 1949, Serial No. 76,411
12 Claims. (Cl. 252—8.5)

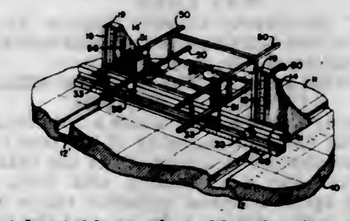
1. A drilling fluid for wells, comprising a water-in-oil emulsion, a finely divided solid material dispersed in said emulsion, and a small quantity of an emulsifying agent capable of stabilizing the emulsion, said emulsifying agent comprising an oil-dispersible polyvalent metal soap of an oxidized resin acid.

2,588,809
KNIFE AND HOLDER MOUNTING THEREFOR
Daniel Douglas Demarest, Little Neck, N. Y., assignor to Linker Machines, Inc., Newark, N. J., a corporation of New Jersey
Application February 5, 1947, Serial No. 726,524
14 Claims. (Cl. 164—41)



1. A string cutting device for a sausage linking machine, comprising a knife holder, a first knife locating pin secured to said holder, a second knife locating pin secured to said holder and having a shank and a button head at one end of said shank, and a knife blade having a first hole receiving snugly said first pin, and a second hole with a part large enough to permit said button head to pass therethrough, and an offset part of smaller size receiving snugly said pin shank, the distance between said hole offset part and said first hole corresponding to the distance between said pins.

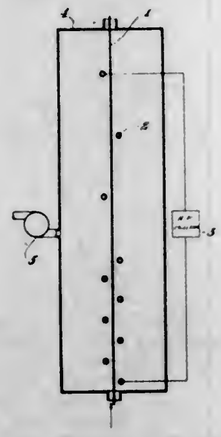
2,588,810
ASSEMBLING AID FOR CONSTRUCTING FRAMEWORKS
Clifford J. Dietrich, Charlottesville, Va.
Application June 23, 1947, Serial No. 756,509
4 Claims. (Cl. 29—286)



1. Adjustable work holder for the parts of a plural part workpiece, comprising a planiform base having a pair of spaced parallel guide grooves with re-entrant sides, a pair of similar standards slidably fitting said grooves having mutually parallel faces perpendicular to said base,

said faces each having a groove perpendicular to said base, said grooves having re-entrant sides, a cross member, first clamping means engaging said cross member having portions playing in the groove of said standards permitting adjustment of said cross member upwardly relative to said standards, said cross member having a longitudinal groove wider at its base than at its mouth, and second clamping means having portions playing in said longitudinal groove, permitting adjustment of said second clamping means longitudinally along said cross member.

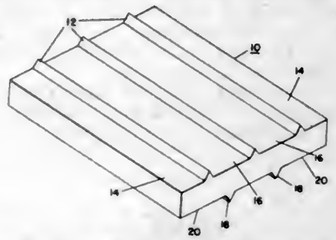
2,588,811
PROCESS OF DRYING GELATINE LAYERS
Cornelis Johannes Dippel, Jan Anthony Lely, and Johannes Aloysius Maria Dikhoff, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 2, 1947, Serial No. 745,396
In the Netherlands June 1, 1946
4 Claims. (Cl. 34—1)



1. A process of drying gelatine layers, having a thickness when dried of less than approximately 100 microns comprising the steps of subjecting the gelatine layer containing water to an alternating electric field of high frequency having an intensity at which the gelatine is heated to a temperature at which it melts and the water removed therefrom within five minutes, and passing a gas stream over the gelatine layer to remove the water vapor expelled from the wet gelatine layer.

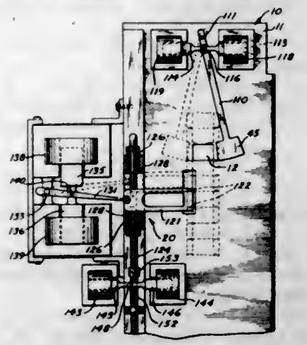
2,588,812
WAX CAKE
Patrick F. Dougherty, Chester Heights, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application June 27, 1950, Serial No. 170,583
2 Claims. (Cl. 196—149)

1. As an article of manufacture a flat elongated cake of wax having a plurality of uniform ridges on one face extending the length of the cake and spaced from the sides thereof and from each other, the space between adjacent ridges being greater than the width of the base of the ridges, a plurality of like ridges on the reverse face parallel to the first mentioned ridges and arranged opposite the spaces of the cake and extending the length thereof and positioned inwardly of the sides thereof and having spaces between the last named adjacent ridges of a width greater than the base of the ridge structure, adapted to support



like cakes in packing with the minimum contact surface therebetween.

2,588,813
MOTION-PICTURE MACHINE WITH ELECTRICALLY OPERATED SHUTTER AND FILM OPERATOR
Joseph Paul Dube, Williamstown, Mass.
Application October 14, 1948, Serial No. 54,512
8 Claims. (Cl. 88—18)

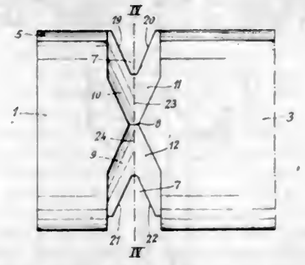


1. Apparatus for projecting images from motion picture film, including a projection station, sprockets on both sides of the projection station for advancing the film through the apparatus, variable speed driving means connected with the sprockets, means for projecting a beam of light through the film at the projection station, a plate shutter at the projection station, a support on which the shutter oscillates back and forth across the light beam, mechanism that operates the shutter in each direction across the light beam at speeds independent of the speed of the sprockets and their driving means, and connections between the driving means and the shutter operating mechanism for controlling the frequency of operation of the shutter, said connections including means that moves the shutter in opposite directions for successive exposures of the apparatus.

2,588,814
NOTCHED PLANK OR LOG
Ståle Erland, Kristiansand S., Norway, and Haakon Tregaard, New York, N. Y.
Application February 24, 1949, Serial No. 78,034
In Norway November 23, 1948
5 Claims. (Cl. 20—92)

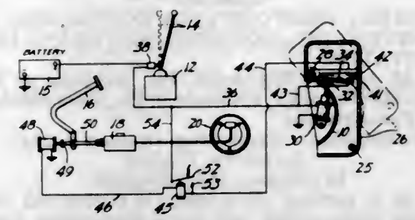
1. An interlocking joint between two similarly notched planks, each plank having a V-shaped notch in a plane medially between the respective side surfaces of the plank, the apex of said notch being located at ¼ the height of the plank, the material of the plank being cut away on each

side of the median plane along lines defined by projecting said notch outwardly and downwardly to the horizontal center line of each of the side surfaces, the lines defined by the projections of the upper extremities of the notch forming the



inward limits of additional cuts normal to said median plane, said cuts along the projections of the V-shaped notch defining four rhombic surfaces, those located on one side of the median plane having at least one common edge and all four rhombic surfaces having a common corner.

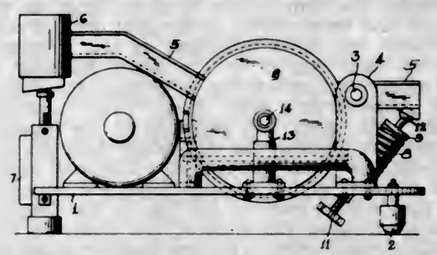
2,588,815
MOTOR VEHICLE SAFEGUARD
Peter A. Fasolino, Buffalo, N. Y.
Application July 20, 1949, Serial No. 105,837
6 Claims. (Cl. 180—82)



1. In a motor vehicle, a wheel brake device, means operative to set said brake device, said vehicle including a gear shift lever arranged to be moved into "reverse" position to cause said vehicle to operate in backward direction, an obstacle feeler member mounted upon said vehicle for movement relative thereto between extended and retracted positions and disposed normally in a retracted position thereon, means actuated by movement of said gear shift lever into "reverse" position to cause said feeler member to move into a projected position reaching outwardly of said vehicle, and to cause retraction thereof when said lever is removed from "reverse" position, and means responsive to application of pressure against said feeler member when said feeler member is in said projected position to cause said brake actuating means to operate to set the vehicle brake system.

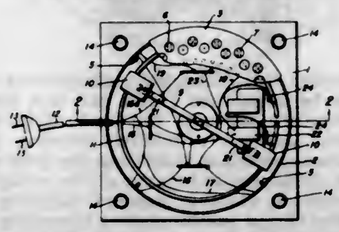
2,588,816
HAMMER ACTUATING MECHANISM
Aldo Robert Filippi, Redwood City, Calif.
Application March 20, 1950, Serial No. 150,790
5 Claims. (Cl. 1—47)

1. In an electrical hammer, a rigid hammer arm mounted between its ends for pivotal movement about a substantially horizontal axis, a hammer carried on the forward end of the arm, spring means urging the forward end of the hammer arm and the hammer downwardly, a drive shaft extending beneath the hammer arm, a cam mounted on the drive shaft and arranged beneath and in engagement with the hammer arm, means coupled with the cam and actuated by the drive shaft for rotating the cam, whereby the forward end of the hammer arm and the



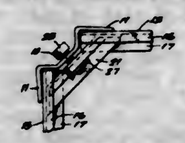
hammer may be actuated upwardly against the pressure of the spring, and control means for releasably holding the forward end of the hammer arm and the hammer in a raised position.

2,588,817
ELECTRICALLY OPERABLE INDICATOR FOR SIMULATED DICE GAMES
Mannie S. Fortner, Houston, Tex.
Application September 4, 1947, Serial No. 772,056
3 Claims. (Cl. 273—141)



1. A game playing device comprising, a casing, a field board forming a top for the casing, transparent playing pieces arranged in circular relation in said field board, each of said pieces being disposed diametrically opposite another of the pieces, a continuous source of light in the casing underneath the playing pieces, an electric motor in the casing having a vertical shaft, a transverse bar on the shaft, plates of transparent, colored, material disposed in diametrically aligned relation on the bar which revolve, with the bar, between the source of light and the playing pieces, a plurality of manually operable switches wired in circuit with the motor any of which may be closed to effect operation of the motor and rotation of the bar and magnetic means on the bar and board, positioned to cause the bar to come to rest with the plates beneath opposite playing pieces.

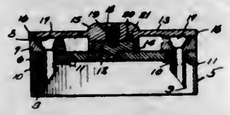
2,588,818
TENSION BOLTED FRAME CONSTRUCTION
Norvin H. Franks, Chicago, Ill.
Application June 8, 1950, Serial No. 166,963
2 Claims. (Cl. 311—113)



1. In a tension bolted frame construction, a leg formed of sheet metal, said leg comprising flat edge flanges lying at an angle to each other, integral flat shoulders projecting inward at

right angles to the flanges at points spaced from the edges of the flanges, and a central flat panel integrally joining the inner edges of the shoulders, elongated elements lying at substantially the same angle to each other as the flanges and terminating in straight ends of substantially the same thickness as the shoulders and at right angles to the outer surfaces of said elements respectively to engage the shoulders respectively with their outer surfaces against the inner flat surfaces of the flanges, a connector joining the elongated elements and extending between the elements adjacent to the ends thereof, and a tension fastening connecting the central part of the leg to the connector and drawing the ends of the elements into abutting relationship with the shoulders and the outer surfaces of the elongated elements against the flanges.

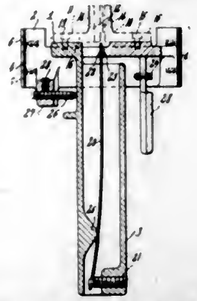
2,588,819
CAN COVER AND PERFORATOR WITH POURING SPOUTS
Leah L. Garneau, Babbitt, Nev.
Application February 24, 1947, Serial No. 730,339
1 Claim. (Cl. 222—86)



A can cover and perforator, comprising a cap adapted to be positioned over a can top, piercing tubes secured to the cap, the inner ends of the tubes being pointed providing piercing points adapted to cut openings in the can top with which the cap is used, spouts formed at the outer ends of the tubes, a bearing member disposed centrally of the cap, a lug extending upwardly from said bearing member, a closure having a central opening fitted on the cap, a depending annular flange formed centrally of the closure fitted over said bearing member rotatably supporting the closure on said bearing member, said closure having a groove formed in the lower surface thereof in which said lug moves, restricting rotary movement of the closure on the cap, and a spring controlled pivot pin rising from the bearing member, disposed in said central opening of the closure, normally urging the closure into contact with said spouts, closing the spouts against the atmosphere.

2,588,820
GAUGE
Hesslar H. Gates, Charlestown, N. H., and Paul A. Grobey, Springfield, Vt., assignors to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont
Application April 6, 1950, Serial No. 154,332
1 Claim. (Cl. 33—148)

In combination, a pair of anvil supporting members, a gaging anvil carried by each of said members, a pair of reeds arranged in parallel relation one end of each of said reeds being secured to one of said members and the other end of each of said reeds being secured to the other of said members, said reeds supporting one of said members for yielding rectilinear motion relative to the other of said members in direction to move said anvils relatively from and toward each other to open and close said gage, an indicator carried by one of said members and provided with an actuating stem in controlled relation to the other of said members, a hollow handle carried by one of said members and extending transverse to the plane of relative motion between said members, a leaf spring within the hollow of said handle, a handle-carried element engaging said spring adjacent to one end, the opposite end of said spring operatively engaging the other of said members, said handle



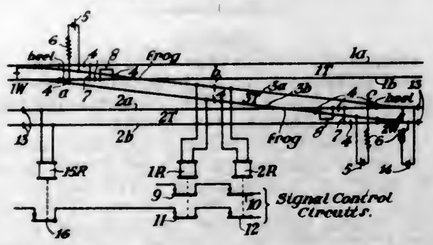
having a fulcrum portion engaged with said spring between its ends, said spring normally urging said movable member toward gage-closed position, and a finger element carried by said other member in position to be engaged by a portion of the hand grasping said handle and be moved in opposition to said spring to open said gage.

2,588,821
COATING COMPOSITIONS CONTAINING A DRYING OIL-MODIFIED MENTHANE DERIVATIVE
Lyle M. Geiger, Edgewood, Pa., assignor to The Neville Company, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 2, 1947, Serial No. 777,593
10 Claims. (Cl. 106—226)

1. In a method of making a drying oil base coating composition, the steps comprising heating to at least about 450° F., a mixture of fatty drying oil and alcohol soluble condensation product of ordinary phenol (C_6H_5OH) and a natural cyclic terpene, said condensation product existing in a crystalline form melting at 98° C., and in a metastable resinous form, and cooling the product of said oil and condensation product.

7. Product of cooking fatty drying oil and not over about 8.6 per cent by weight of cis 1–8 bis (parahydroxy phenyl) menthane.

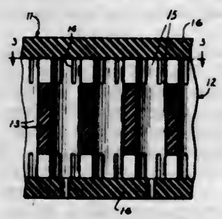
2,588,822
CROSSOVER PROTECTION APPARATUS
Robert M. Gilson, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application June 20, 1946, Serial No. 678,018
8 Claims. (Cl. 246—114)



1. In crossover protection apparatus in which a crossover track interconnecting two main

tracks is divided into two sections insulated from each other and extending in opposite directions from a mid point of the crossover, and in which each of said main tracks is divided to form a main track section including the switch at the corresponding end of said crossover track, the combination comprising, an insulated joint in each rail of said crossover track between said main tracks one adjacent the heel of the switch at one end of said crossover track and the other adjacent the heel of the switch at the other end of said crossover track, two pairs of insulated joints, one pair for each of said main tracks and one joint of each of said pairs located in the frog side of its main track section at a point between the frog and the heel of the switch at its end of said crossover track and the other joint of each of said pairs located nearby in the opposite side of its main track section, a jumper adjacent each of said pairs of insulated joints one end of which is connected with the frog side of its main track section between its pair of insulated joints and its switch and the other end of which is connected with the other rail of its main track section on the opposite side of its pair of insulated joints for arranging the rails of its main track in conjunction with its pair of insulated joints for a main track circuit for controlling traffic movements adjacent the associated switch, a track circuit for each of said sections each including the rails of its section, and traffic control means controlled by said track circuits.

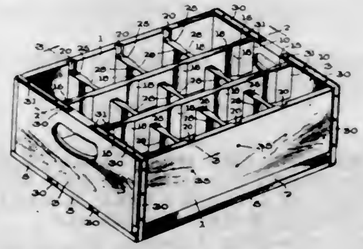
2,588,823
RUBBER FOAM CUSHION
Jacob Glassman, Chicago, Ill.
Application April 25, 1949, Serial No. 89,538
2 Claims. (Cl. 5—361)



1. Cushioning material which comprises a flat body of rubber foam having a plurality of openings therethrough, and at least one surface of the body having deep grooves formed therein and connecting adjacent openings, said grooves defining a plurality of finger-like protuberances surrounding each opening.

2,588,824
BOTTLE CRATE
Harry H. Goldstein, North Arlington, Va.; Rose Hirschfeld Goldstein, administratrix C. T. A., of said Harry H. Goldstein, deceased
Application October 21, 1947, Serial No. 781,145
1 Claim. (Cl. 217—19)

A box comprising a base and opposing side and end panels secured to said base, said opposing panels having spaced vertical grooves on the inner walls thereof open at the top edges of said panels with the grooves in said panels defining shoulders spaced from the base of the box, a partition structure within said box comprising a series of transverse boards which are imperforate and unslotted throughout their lengths, said transverse boards having their ends received in the grooves in the side panels and supported on said shoulders therein in spaced vertical relation with their lower edges spaced from the base of the box and their upper edges spaced from the top of the box, said imperforate and unslotted transverse boards having spaced vertical grooved portions intermediate the ends thereof and arcuate depressions between said grooved portions, a series of longitudinal boards supported on said spaced imperforate and unslotted transverse boards in crossed relation thereto and also supported on the shoulders on said end panels with their lower edges spaced from the base of the box and their upper edges substantially flush with the top of the box, said longitudinal boards having imperforate upper portions and spaced slots in their lower portions and arcuate depressions between said spaced slots, said spaced slots in said lower portions of the longitudinal boards re-

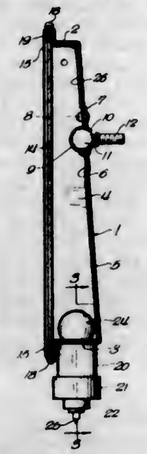


ceiving said spaced grooved portions on the imperforate and unslotted transverse boards in a series of interlocked joints holding said boards in fixed relation to each other, said imperforate and unslotted upper portions of the longitudinal boards and said imperforate and unslotted transverse boards providing a partition in which the upper portions of all boards adjacent the top of the box are imperforate and unslotted throughout their lengths and thereby of maximum strength and also reinforced by said series of interlocked joints so as to provide maximum resistance against breakage in the use of the box, and binding strips at the ends of said box extending over the base and side panels thereof with the free ends of said binding strips secured to the upper edges of said end panels in overlapping relation to said ends of the longitudinal boards for securing the partition structure within the box.

2,588,825
NONBLURRABLE REAR-VISION MIRROR
Alfred E. Goodman and Lewis R. Brown, Pasco, Wash.
Application June 28, 1950, Serial No. 170,746
1 Claim. (Cl. 219—19)

A rear vision mirror comprising in combination a housing having integrally formed top, bottom, rear and side walls, said side walls being tapered throughout their length from the bottom to the top of the housing, a layer of heat insulating material secured to the inside of said top, bottom, rear and side walls of the housing, a mirror secured in water-tight relation to the housing to form the front wall thereof, a light bulb disposed within the housing and extending through said bottom wall thereof and connected with a source of electrical energy whereby energization

of said light bulb and the warmth generated thereby within the housing will dissipate the accumulation of mist, fog or frost on the reflecting surface on said mirror.



2,588,826

PROCESS FOR THE MANUFACTURE OF IMPROVED DRYING OILS BY THE CONDENSATION OF UNSATURATED MINERAL OIL POLYMERS WITH ALDEHYDES

Robert C. Goodwin, Lubbock, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware

No Drawing. Application September 27, 1945, Serial No. 618,991
7 Claims. (Cl. 260—606)

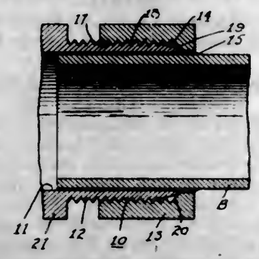
1. The method of manufacturing an improved drying oil from unsaturated polymers obtained in the clay treating of cracked gasoline at elevated temperatures and boiling within the range of 350 to 600° F. which comprises forming a mixture of said polymer in the liquid phase with an acid condensation catalyst, agitating said mixture while introducing an aldehyde in the vapor phase to produce an oil having improved drying properties, and maintaining a temperature within the range of 30 to 220° F. while the reaction takes place.

2,588,827

COUPLING

Victor F. Gouch, Plano, Ill.

Application May 29, 1948, Serial No. 30,002
6 Claims. (Cl. 285—123)



1. A pipe coupling comprising a sleeve having a bore for receiving two pipes to be coupled, said bore being formed with a smooth inner wall surface of uniform and slightly greater diameter than that of the outer wall surface of the pipes to be coupled and an outer surface threaded at portions spaced from the outer ends thereof and tapering therefrom toward said outer ends, and internally threaded clamping nuts, each adapted to be screwed onto the sleeve from an end thereof respectively and having an internal, circumferential edge disposed and dimensioned to engage the tapered outer wall surface portion of said sleeve and having a portion immediately in advance of said edge of sufficiently great internal diameter to be substantially out of contact with said sleeve, said edge alone being thereby operative to deform the end portion of said tapered outer wall surface portion substantially radially inwardly into tight sealing engagement with the corresponding pipe when the nut is tightened on the sleeve.

2,588,828

COMPOSITION FOR AND METHOD OF PRODUCING COATED CEMENT SURFACES AND THE PRODUCT RESULTING THEREFROM

Norman S. Greiner, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

No Drawing. Application December 11, 1948, Serial No. 64,900
7 Claims. (Cl. 117—123)

1. A heat curable coating composition which is applicable by conventional spraying or brushing methods comprising a suspension of finely divided mineral fillers and emulsified organosiloxane polymer belonging to the group consisting of heat polymerizable alkyl and aryl siloxanes in a vehicle comprising an aqueous solution of alkali silicate having a molar ratio of alkali oxide/SiO_2 within the approximate range 1:3.20–3.90, said alkali silicate on the dry basis forming 50–60% by weight of the composition, and the siloxane being present in amount 3–6% dry basis to impart toughness, durability and weather resistance.

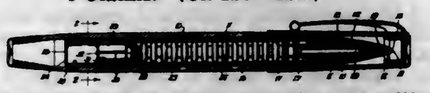
7. The method of producing a durable, weatherproof, and decorative coating for an asbestos-cement base sheet which comprises, applying to one surface of said sheet a thin aqueous coating composition to form a thin veneer, said composition comprising finely divided mineral pigment and emulsified polysiloxane belonging to the group consisting of alkyl and aryl siloxane polymer resins in an aqueous solution of alkali silicate having a solids concentration of 32–40% and having a mol ratio of SiO_2/alkali oxide within the range 3.2–3.9:1, said suspension containing on the dry basis 50–60% alkali silicate and 3–6% polysiloxane, and subjecting the thus coated sheet to a drying and baking cycle within the temperature range 250–500° F. under controlled temperature and time conditions.

2,588,829

WRITING INSTRUMENT

Raymond L. Greist, Chicago, Ill., assignor to Eversharp, Inc., Chicago, Ill., a corporation of Delaware

Application January 19, 1946, Serial No. 642,158
3 Claims. (Cl. 120—42.4)



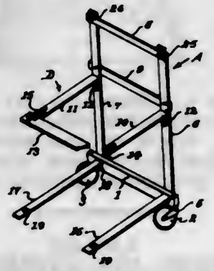
1. An ink reservoir for a pocket type writing instrument which is adapted to be held with its writing tip down when in use and with its writing tip up when being carried in a pocket and which has a rotatably mounted ball as the writing tip and an ink feeding duct opening into a socket in which the ball is mounted, said reservoir comprising a tubular housing, a collapsible ink container in the housing, which container is closed at its rear end and is connected at its front end with the duct leading to said socket, a weight member which is freely slidable in the housing in a forward direction in engagement with the rear end of the ink container for collapsing the latter, and one-way clutch means acting between the weight member and the housing for preventing the weight member from moving rearwardly in the housing away from the container when the housing is placed with its rear end down.

2,588,830

DRUM BUOY

Engval J. Haanstad, Arlington, S. Dak.

Application February 28, 1950, Serial No. 146,754
7 Claims. (Cl. 84—421)



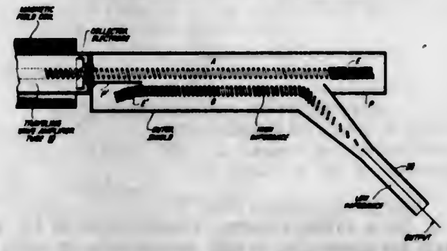
1. In combination with a bass drum having a harness strap for attachment to a drummer, a carrier comprising, an elongated standard, a platform hinged to the standard intermediate the length thereof, supports hinged to the standard and having adjustable connection with the platform along the length thereof to support the outer end thereof at selected elevations, the drum being supported on the platform with its frame and skin sides disposed in a vertical plane, means carried by the standard and the platform for removable attachment to the drum, and spaced wheels swivelly supported beneath the standard for the mobile support thereof.

2,588,831

HIGH-FREQUENCY ENERGY TRANSFER CIRCUIT

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application November 20, 1947, Serial No. 787,233
27 Claims. (Cl. 178—44)



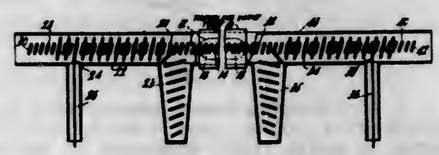
1. The combination with a radio frequency energy transfer circuit comprising a coiled line a plurality of wavelengths long at the operating frequency of the waves adapted to travel thereover in an axial direction, a portion of said coiled line solely near one end being constructed and arranged to provide high attenuation for said waves passing over said line, of means for supplying high radio frequency waves to said coiled line at a location removed from said one end to travel in said direction toward the other end comprising a second coiled line coupled to said first with substantially continuous reactive coupling over a plurality of wavelengths at the operating frequency, and means remote from said one end abstracting high frequency waves from said first line.

2,588,832

TRANSMISSION LINE COUPLING

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application December 1, 1949, Serial No. 130,450
10 Claims. (Cl. 178—44)



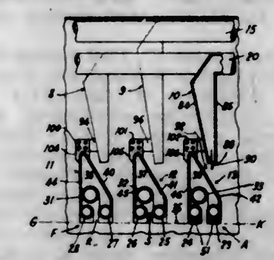
1. A directional coupler comprising a pair of transmission lines each comprising a coil wound coaxially with the other about a longitudinal axis and coupled along an axial length of each at least a plurality of wavelengths at the operating frequency by being placed in close proximity to each other with said axes substantially parallel over said lengths, said lines over said lengths being so dimensioned and arranged as to have substantially the same phase velocities for electromagnetic energy at the operating frequency and to have phase velocities different from each other for electromagnetic energy at frequencies other than the operating frequency, whereby a band-pass effect is obtained in the coupling of energy from one said line to the other.

2,588,833

FUEL BURNING MEANS

James L. Harvey, Alliance, Ohio, assignor to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey

Application July 23, 1948, Serial No. 40,231
10 Claims. (Cl. 122—6)



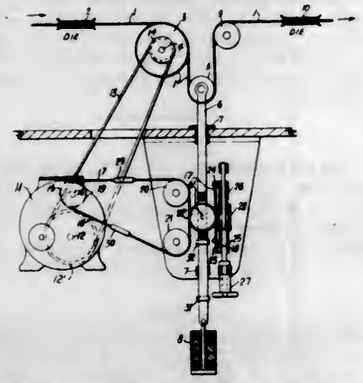
1. In a furnace, a pulverized fuel burner construction of the intertube type with adjacent furnace boundary tubes disposed at the opposite sides of burner ports normally having a mixture of pulverized fuel and air flowing therethrough, and refractory constructions secured to the furnace sides of said tubes and presenting fuel contacting burner port walls with sharp corner edges marginally related to the burner ports.

2,588,834

WIRE-DRAWING TENSION DEVICE

William Sawers Henderson, Glasgow, Scotland

Application May 25, 1949, Serial No. 95,181
In Great Britain May 22, 1948
4 Claims. (Cl. 205—14)



1. A wire-drawing bench incorporating a rotatable drum around which is led the wire to be drawn, a jockey pulley embraced by the wire and located relatively to said drum in dependence on the tension in the wire, a gear box providing a range of gear ratios and having an output shaft operatively connected to said drum for effecting its rotation, a gear-controlling shaft operatively associated with gears of said box rotation of which varies the gear ratio of said gear box, a vertical rod carried by the jockey pulley and weighted to move downwards, a freely rotatable operating pulley mounted on said rod with its axis disposed transversely of said rod, a control pulley fixed to the gear-controlling shaft, two cables wrapping said operating pulley in opposite directions, one end of each of said cables being secured to said control pulley, an anchorage means to which the other end of each of said cables is fixed, both cables being led in opposite directions around said control pulley, and means for varying the initial angular position of said gear-controlling shaft.

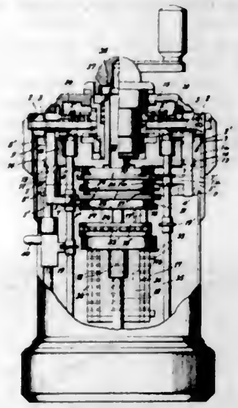
2,588,835

INDEPENDENT ACTUATOR TENS-TRANSFER MECHANISM

Curt Herzstark, Mauren, Liechtenstein, assignor to "Contina" Buro- und Rechenmaschinenfabrik A. G., Mauren, Principality of Liechtenstein

Application October 27, 1949, Serial No. 123,850
In Austria November 3, 1948
3 Claims. (Cl. 235—137)

1. In a pocket-size calculating machine, a machine body, a central driving member rotatably mounted in said body and having fixedly attached thereto a stepped cylinder, a plurality of counter mechanism and transmission members arranged in a circle around the axis of rotation of said driving members, said counter mechanisms including each a numeral wheel rotatable about an axis arranged radially with respect to the axis of said driving member, each numeral wheel being provided with a tens-transmission finger, a tens-transmission member having the form of a flat angular slidebar for each numeral wheel, a guide bar for each angular slidebar fixedly secured in an axial groove in the outer mantle surface of said body for slidably supporting said angular slidebar in a direction parallel to the axis of rotation of said driving member, said axial grooves being open toward the circumference of said body to permit radial insertion and removal of said guide bar and its respective slidebar into said body, said angular slidebar being actuated, on the free end of its



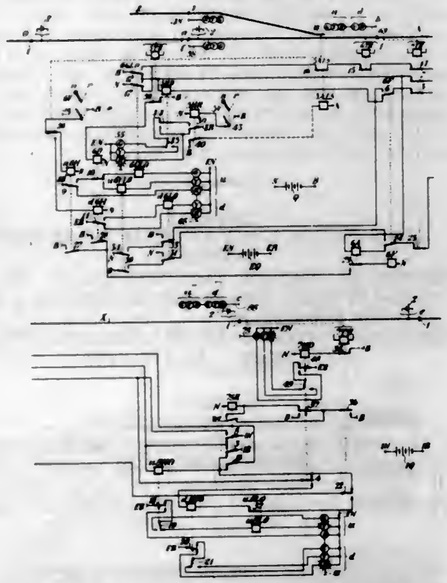
leg which is positioned parallel to the axis of rotation of said driving member, by the tens-transmission finger on the respective numeral wheel to rotate the numeral wheel of the next higher digit position a distance of one number.

2,588,836

ARRANGEMENT FOR CONTROLLING SPECIAL INDICATIONS OF DISTANT SIGNALS

Phillip F. Holden, Norfolk, Va., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application June 3, 1947, Serial No. 752,076
7 Claims. (Cl. 246—219)



1. In a railway signal control system for signals for governing traffic movements in both directions over a stretch of railway track, including a home signal adjacent one end of said stretch for governing traffic movements in a given direction off of said stretch and including a distant signal adjacent the opposite end of said

stretch for governing traffic movements in said given direction over said stretch toward said home signal and also including a third signal adjacent said home signal for governing traffic movements in the opposite direction over said stretch, the combination comprising, a traffic responsive relay which is normally energized but which becomes deenergized if a train approaches said distant signal in said given direction, a polarized signal relay for controlling said distant signal, an approach relay for said home signal, a transfer relay, a circuit controlled by a front contact of said traffic responsive relay and by a back contact of said transfer relay for energizing said approach relay, means for at times controlling said home signal to display a given indication and for at other times controlling said home signal to display a second indication, circuit means controlled by said traffic responsive relay in its deenergized condition and by said transfer relay in its energized condition for energizing said polarized signal relay by current of normal or reverse polarity according as said home signal is controlled to display said given indication or said second indication respectively, a circuit controlled by a back contact of said approach relay for energizing said transfer relay if said home signal is controlled to display either said given indication of said second indication, and means including a back contact of said transfer relay for controlling said third signal.

2,588,837

AUTOMATIC FISHING REEL BRAKE

Johan Alfred Holm, Malatrask, Sweden

Application March 17, 1948, Serial No. 15,416
In Sweden April 11, 1947
5 Claims. (Cl. 242—84.5)



1. In a fishing reel having a frame and a reel rotatably supported by said frame, a brake ring secured to said reel, an electromagnet secured to said frame, a rod reciprocably associated with said electromagnet for movement toward and away from said brake ring, an electromagnet mounted on said rod, a brake shoe mounted on said rod for engagement with said brake ring and means responsive to the occurrence of slack in the line being payed off said reel to effect energization of said electromagnets, whereby said magnets are attracted to each other causing movement of said rod to bring said brake shoe into engagement with said brake ring.

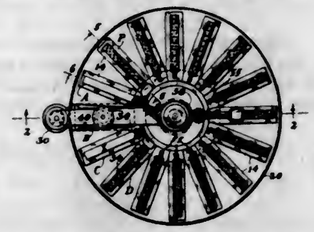
2,588,838

BLOCK MOLDING APPARATUS

Roland W. Honnig, Plainfield, and Louis A. Hawthorne, Hillside, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application July 8, 1946, Serial No. 682,020
3 Claims. (Cl. 92—59)

1. In block molding and curing apparatus, a water curing tank, a water pervious and solids impervious filter mold base within the tank, a charging cylinder mounted over a charging position of said mold base, the bottom of said cylinder being shaped and dimensioned to seat with a tight sealing fit to the mold base, said charging cylinder being reciprocable relative to said mold base in a fixed vertical path, a water pervious and solids impervious piston reciprocably mounted in said cylinder, said mold base, charging cylinder and piston forming in combination a filter mold the volume of which varies with the piston position, and a rotary turntable arranged to support the mold base at the mold charging position and in subsequent curing positions, said tank being arranged to maintain a body of hot water at an immersion level above a molded block on the mold base.

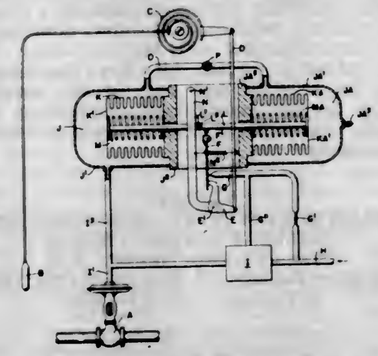


2,588,839

PNEUMATIC CONTROL APPARATUS

Joseph G. Horn, Drexel Hill, Pa., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

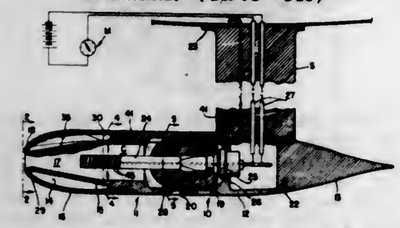
Application November 14, 1947, Serial No. 785,904
7 Claims. (Cl. 137—153)



1. An air controller for effecting two position control with an adjustable differential gap, comprising in combination first and second expansible air chambers each having a movable wall biased to a normal position and mechanically connected to the other so that an expansion or contraction of the first chamber is attended by the contraction or expansion, respectively, of the second chamber, a pressure equalizing conduit connection between said chambers including an adjustable flow restricting device, said second chamber having a vent passage through which that chamber is in restricted communication with the atmosphere, valve means adjustable to increase and decrease the air pressure in said first chamber, operating mechanism for said valve means including means responsive to variations in the value of a controlled variable and including means responsive to the expansion and contraction of said first chamber, said first and second operating means cooperating to effect an initial adjustment of said valve means to vary the air pressure in said first chamber in one direction or the other when the value of

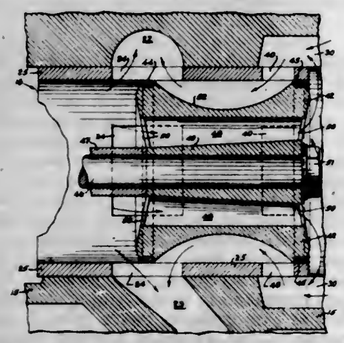
said variable attains one or the other of two different predetermined values, and to effect a further adjustment in the same direction of said valve means on the expansion or contraction of said first chamber resulting from said initial adjustment.

2,588,840
TEMPERATURE PROBE
Walter L. Howland, Glendale, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application September 7, 1946, Serial No. 695,534
5 Claims. (Cl. 73—349)



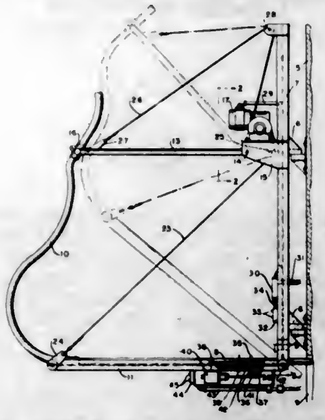
1. A temperature probe for use in an air stream for measuring the air temperature plus the adiabatic temperature rise thereof, the probe comprising a body having a chamber provided with an air receiving inlet facing forwardly in said stream, there being spaced ports in the periphery of the body communicating with the chamber allowing a limited escape of air from the rear portion of the chamber, said inlet and port means being related in capacity so that the entering air is brought substantially to rest in the chamber, the body having an insulating chamber in surrounding relation to the first chamber and ports communicating with the insulating chamber to allow a limited air flow therethrough, means on at least one wall of the insulating chamber for preventing heat conduction therethrough, and a temperature sensitive device in said chamber.

2,588,841
STEAM LOCOMOTIVE ADMISSION AND EXHAUST PISTON VALVES
Thomas J. Hoy, Newark, N. J.
Application January 17, 1947, Serial No. 722,731
12 Claims. (Cl. 121—124)



1. In a reciprocal steam engine, locomotive or the like having a cylinder with a piston positioned in the cylinder for reciprocal movement, means providing separate steam admission and steam exhaust chambers, said admission and exhaust chambers having an end chamber portion adjacent each end thereof and an intermediate chamber portion intermediate said end portions, each of said separate chambers having a plurality of ports in communication with the cylinder, said ports respectively being positioned in spaced relationship with the opposite ends of said chambers and so as to communicate with said intermediate chamber portions and the end chamber portion adjacent said ports, the intermediate portion and each end of the steam admission chamber being in communication with a source of steam and the intermediate portion and each end portion of the exhaust chamber being in communication with a steam exhaust, admission piston valves operable in the steam admission chamber, one of said valves being associated with the ports of the admission chamber at one end of said piston stroke and another of said valves being associated with the ports of the admission chamber at the opposite end thereof so as to control the admission of steam from said intermediate and end portions of the admission chamber, and exhaust piston valves operable in the steam exhaust chamber, one of said valves being associated with the ports of the exhaust chamber at one end of said piston stroke and another of said valves being associated with the ports of the exhaust chamber at the opposite end thereof so as to control the exhaustion of steam from said intermediate and end portions of the exhaust chamber into the cylinder.

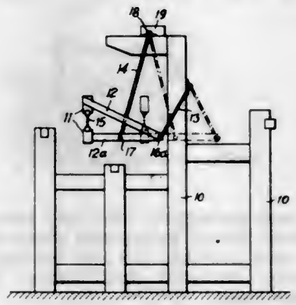
2,588,842
ADJUSTABLE HOSE SUPPORT AND FEEDER
Arthur R. Hutt, Hopatcong, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application June 24, 1947, Serial No. 756,747
6 Claims. (Cl. 248—82)



1. In an apparatus for introducing gases into molten metal, an upright member, a pipe support pivotally connected to the member adjacent its lower end, a pipe clutch on the pipe support, a hose support pivotally connected to the upright member above the pipe support, cables connected to the pipe and hose supports and reversible means for winding and unwinding the cables to swing the pipe and hose supports in a vertical plane.

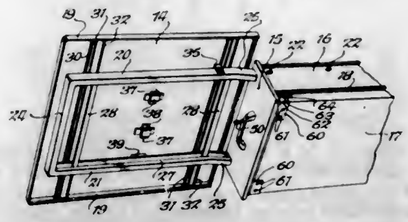
2,588,843
HAND LOOM
Johan Carl Iwald, Rorosjon, Sweden
Application June 17, 1949, Serial No. 99,827
In Sweden April 25, 1947
3 Claims. (Cl. 139—29)

1. In a hand loom, two side frames, a reciprocating unit including a slay beam and substantially horizontal bars fixed at one of their ends to said beam, crank-like members pivotally mounted near the other ends of said bars, and pivotally mounted in said side frames above the plane of said horizontal bars, and suspending



links for said unit, each link being at its lower end pivotally secured to one of said bars at a point between said beam and said member and being at its upper end pivotally secured to one of said side frames.

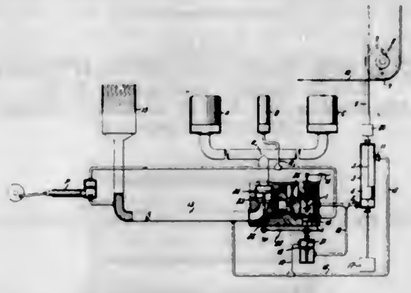
2,588,844
INSERTABLE PLATFORM FOR DESKS
James R. Jones, Lakewood, and Floyd H. Bloomstran and Victor A. Gronberg, Jamestown, N. Y., assignors to Art Metal Construction Company, Jamestown, N. Y.
Application May 7, 1949, Serial No. 92,054
10 Claims. (Cl. 311—17)



1. In a unit for supporting a typewriter or other machine on a desk, including a drawer insertable into a drawer space of a desk, that improvement which includes a pair of arms secured to said drawer and extending forwardly therefrom, a machine supporting platform supported on said arms, a pair of guide rails rigidly secured to said arms and extending crosswise thereof, parts on said platform cooperating with said guide rails and which guide said platform for movement transversely of said arms, and cooperating stop members on said arms and said platform to limit the extent to which said platform may move crosswise of said arms.

2,588,845
APPARATUS FOR FEEDING LEATHER TO SMOOTHING PRESSES
Václav Kadeřávek, Gottwaldov-Otrokovice, Czechoslovakia, assignor to Svit, narodni podnik, Gottwaldov, Czechoslovakia
Application August 4, 1949, Serial No. 108,467
In Czechoslovakia September 8, 1948
3 Claims. (Cl. 69—48)

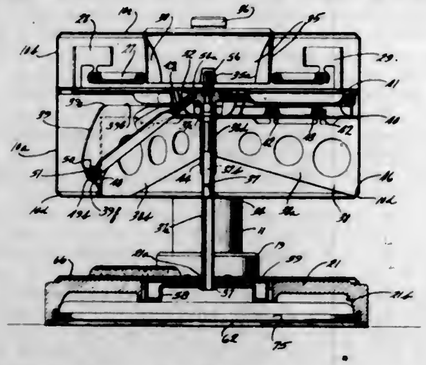
1. An apparatus for feeding leather to a hydraulic press for smoothing and pressing the same in which the feeding of the work pieces takes place after a preceding pressing operation and coincident with opening of the press, said press including press cylinders having pistons therein for operating the press, a fluid reservoir, a fluid supply line for flow of fluid between said reservoir and said press cylinders, a cut-off valve in said supply line adapted when seated to cut off return flow of fluid from the press cylinders to said reservoir, a pressure fluid line, a pump for supplying pressure fluid from said reservoir to said pressure fluid line, a conveyor band for the work pieces, driving mechanism for advancing the conveyor band step-by-step through the press, a hydraulic cylinder, a piston in said cylinder connected to actuate said driving mechanism, an inlet connection from said pressure fluid line to one end of said hydraulic cylinder, a manually controlled valve in said inlet connection, an outlet connection from adjacent the other end of said hydraulic cylinder positioned to be uncovered by travel of the piston to said end, a fluid return line connecting said outlet connection to said fluid reservoir, a connection from said pressure fluid line to the fluid supply line for the press cylinders between the latter and the cut-off valve, a spring loaded one-way excess pressure valve in the last mentioned connection, an auxiliary piston exposed to the pressure in said pressure fluid line, a spring biased valve connected to said auxiliary piston, a by-pass from the inlet connection to said hydraulic cylinder to the underside of said spring biased valve and from the other side thereof to said return line, the bias on said valve being such that said valve is opened when the manually controlled valve is closed, and vice versa, actuating connections between said auxiliary piston and the cut-off valve in the supply line between the fluid reservoir and the press cylinders so arranged that when the auxiliary piston is depressed by the pressure fluid the cut-off valve is closed, a relief valve communicating with the pressure fluid line for relieving the pressure above said cut-off valve when the manually controlled valve is opened, whereby to permit the cut-off valve to be opened by the pressure acting to close said spring biased valve.



2,588,846
COMBINATION COOKING DEVICE
Joseph F. Kane, Evanston, Ill.
Application September 4, 1947, Serial No. 772,027
3 Claims. (Cl. 99—423)

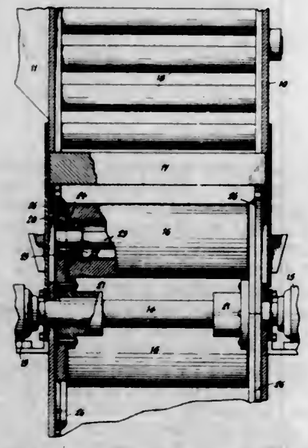
1. In an apparatus for continuously making pancakes, a metering device comprising a supply container having a discharge orifice at the bottom thereof, a plurality of griddles arranged for moving below said container to receive pancake batter therefrom and a plate movable with said griddles in sliding contact with the bottom of said container and having a plurality of openings of limited extent movable directly under the

orifice, whereby pancake batter will be delivered to one of said griddles when an opening is aligned



with the orifice and will be held in said container at all other times.

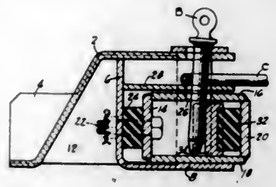
2,588,847
ROTOR FOR STONE CRUSHING APPARATUS
Lee H. Kessler, Springville, N. Y.
Application July 3, 1947, Serial No. 758,859
1 Claim. (Cl. 241—191)



A rotor for use in a stone crusher of the type wherein the introduced stone is crushed by impact while in suspension, comprising a drive shaft having end plates fixed thereon, sleeves detachably fitted in an annular row in said end plates about and parallel to the drive shaft, roller-shafts disposed between the end plates and secured to said sleeves against rotation relative thereto, bearings applied to said roller-shafts inwardly of said sleeves, and tubular impact rollers applied to said last-named shafts and supported at their ends on said bearings.

2,588,848
SPRING BUMPER AND DRAFT GEAR
Robert C. Kepner, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application January 16, 1951, Serial No. 206,139
6 Claims. (Cl. 213—9)

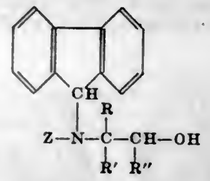
1. In a combined draft and buffing gear for cars, the combination with a car of a bumper head movable inward relative to the car under buff forces from a normal position, resilient means opposing such inward motion, means preventing motion of said head outward from its normal position, a coupling pin fulcrumed on



said car and projecting into said bumper head, and resilient means interposed between the lower end of said coupling pin and the bumper head to resiliently transmit draft forces directly to the bumper head.

2,588,849
HYDROXYETHYLAMINO FLUORENES
James F. Kerwin and Glenn E. Ullyot, Philadelphia, Pa., assignors to Smith, Kline & French Laboratories, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application August 25, 1949, Serial No. 112,397
6 Claims. (Cl. 260—570.9)

1. A product of the group consisting of the compound having the structure:



in which Z is a member of the group consisting of phenylalkyl groups, the alkyl portion of which has not more than 4 carbon atoms and substituted phenylalkyl groups substituted in the phenyl ring, the alkyl portion of which has not more than 4 carbon atoms and the substituents in the phenyl ring are selected from the group consisting of lower alkyl groups, lower alkoxy groups, a hydroxy group, chlorine, bromine and fluorine; R, R′ and R″ are members of the group consisting of hydrogen and alkyl groups containing not more than 6 carbon atoms, the substituents for R, R′ and R″ being selected so that the sum of the carbon atoms thereof does not exceed 6; and salts thereof.

2,588,850
ROLLER JEWEL SETTING TOOL
Frank Kobos, Sr., Houston, Tex.
Application December 21, 1948, Serial No. 66,434
6 Claims. (Cl. 81—7)

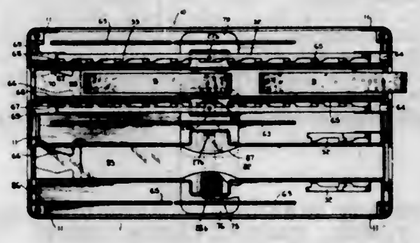
1. A roller jewel setting tool comprising a handle having a slot at one end for passage of a portion of a shaft of a time piece component, a block disposed on said handle adjacent said slot and slidable laterally of said handle, a jewel receiving groove in said block disposed at substantially right angles to the plane of said handle adjacent said slot, said groove opening upwardly and toward said slot, said block having an opening which opens toward said slot for reception of another portion of the shaft of the time piece

component, the inner side surface of said block being adapted to frictionally contact the jewel table of the component, and the inner surface



of the handle adjacent said slot adapted to frictionally engage another portion of the component.

2,588,851
TOASTER
Frank O. Kompass, New York, N. Y., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application October 31, 1946, Serial No. 706,975
26 Claims. (Cl. 99—386)



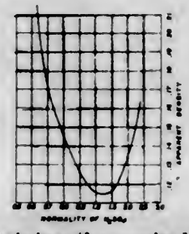
1. In a toaster of the class described, a pair of spaced toasting elements, a support on which a slice of bread may rest as it is moved between said pair of toasting elements, traction means for said bread at each side of said support, and power means for actuating said traction means cyclically to contact the bread, move the bread relatively to said support and then leave the bread.

2,588,852
PROCESS FOR PREPARING BETA-BROMO, ALPHA CHLORO, BETA-FORMYL ACRYLIC ACID
Erwin Kuh, New Brunswick, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 27, 1950, Serial No. 164,851
3 Claims. (Cl. 260—539)

1. A method of preparing beta-bromo-alpha-chloro-beta-formylacrylic acid which comprises heating furfural and bromine in the presence of hydrobromic acid, subsequently adding chlorine and recovering said product therefrom.

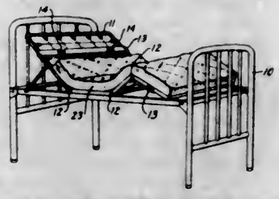
2,588,853
METHOD OF PRODUCING SILICA POWDER
Charles A. Kumins, Brooklyn, N. Y., and Gloria R. Greening, Radburn, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application July 2, 1948, Serial No. 36,766
3 Claims. (Cl. 23—182)

1. The method of producing silica powder which comprises neutralizing a sodium silicate



solution containing the equivalent of about 39.2 per cent ($Na_2O+3.2SiO_2$) with 0.95 to 1.65 normal sulfuric acid, diluting with water at the point of incipient gelation to break up the gel, heating, precipitating partially dehydrated silica by boiling under reflux, and separating, washing, drying and pulverizing the precipitate.

2,588,854
MATTRESS HOLDER
Helen E. Lang, Lima, Ohio
Application December 11, 1946, Serial No. 715,571
3 Claims. (Cl. 5—322)

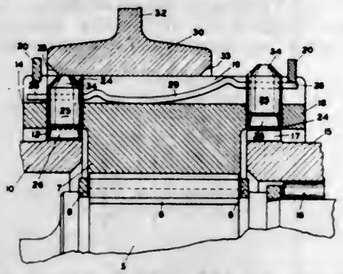


1. In combination with a bed having a foldable and adjustable bed spring, said spring comprising a plurality of separate sections hinged together for providing a variable reclining support for an occupant of a bed; a mattress supported upon said spring, a plurality of straps secured to said mattress, a plurality of shouldered projections on said straps, a plurality of bars arranged laterally on said spring and having the ends thereof secured to the frame of said spring, each bar being secured to a separate section of said spring, and laterally formed slots in said bars to receive said projections to lock the mattress to the separate sections of said spring to prevent lengthwise shifting of the mattress on the spring after the spring has been adjusted to form a reclining support for the occupant of said bed.

2,588,855
GEAR CLUTCH MECHANISM
Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 28, 1948, Serial No. 29,911
11 Claims. (Cl. 192—48)

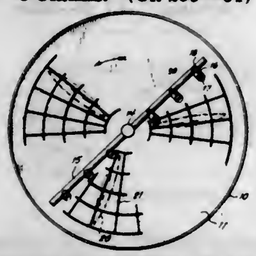
1. In combination, a shaft, a pair of axially spaced gears rotatably mounted coaxially with said shaft and having adjacent annular clutch tooth portions, a member splined on said shaft intermediate said gears and having portions radi-

ally overhanging said clutch portions, an annular series of radially movable cylindrical poppets in each of said overhanging portions, rocker means carried by said member interconnecting said poppets axially and including means for holding them against rotation, the inner ends of said poppets having tooth engaging portions, and



means axially shiftable on said member for selectively camming either series of poppets radially inwardly into engagement with the clutch tooth portion of the associated gear, said rocker means assisting in maintaining the other series of poppets radially out of engaging position with the other of said gears.

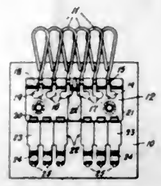
2,588,856
ROTARY SPRAY ARM FOR WASHING MACHINES
Julius La Raus, Westport, Conn.
Application April 15, 1949, Serial No. 87,599
3 Claims. (Cl. 299—64)



1. The combination with a dish washing machine wherein dinner plates and the like are arranged in generally vertical position radially about a central point, of rotary spray means arranged to deliver fluid upwardly to the front and back surfaces of such plates, such means comprising a fixed bushing provided with fluid supply means, a hub rotatably mounted on such bushing and a spray arm extending radially from the hub, plural nozzles carried by the spray arm, certain of such nozzles being directed rearwardly of the direction of rotation at an angle of not less than 5° nor more than 30° from the vertical, the remaining nozzles being directed forwardly of said direction of rotation at a lesser angle from the vertical than the first mentioned angle, the first mentioned nozzles producing such rotation as the fluid issues therefrom and the latter nozzles tending to retard such rotation.

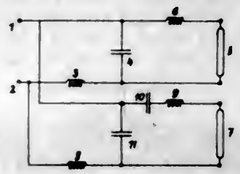
2,588,857
KEY CASE
Robert C. Legat, New Britain, Conn., assignor to The G. E. Prentice Mfg. Co., Kensington, Conn., a corporation of Connecticut
Application August 19, 1947, Serial No. 769,371
5 Claims. (Cl. 70—456)

4. In a keyholder comprising a plate having at its upper end a longitudinally extending channel-shaped portion projecting outwardly from the front face of said plate, said channel portion being divided into a series of sections by a plurality of slots which extend transversely of such plate to points spaced below said channel portion, each of said slots communicating at its lower end with an enlarged opening in such plate and through which a key hook may be passed into the area defined by said channel portion, said enlarged openings being wholly located below said channel-shaped portion and being offset from their associated slots, and a plurality of levers pivotally connected to the lower edge of said plate, said levers having flat body portions which overlie the front face of said plate below said channel-shaped portion and overlie said enlarged openings to lock the key hooks in



position on said holder, and said body portions substantially concealing the front face of said plate below said channel-shaped portion, the upper end of each of said levers being reduced in width and being positioned in overlying relation over that section of the channel-shaped portion located above its associated enlarged opening and adjacent to the slot connected with such opening, the upper ends of said levers being bent into a form substantially similar to that of said channel-shaped portion but such that the upper ends can be pressed into locked position on said channel-shaped portion, and a part connected to the upper end of each of said levers to enable such levers to be manually unlocked from said channel-shaped portion and swung away from such plate to uncover said enlarged openings.

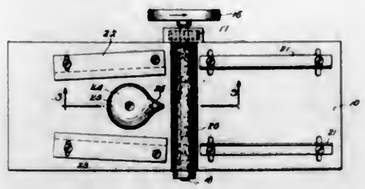
2,588,858
CIRCUIT ARRANGEMENT FOR DISCHARGE TUBES, PARTICULARLY GLOW DISCHARGE TUBES
František Lehmann, Chomutov, Czechoslovakia
Application September 28, 1948, Serial No. 51,608
In Czechoslovakia October 7, 1947
7 Claims. (Cl. 315—250)



1. In combination with a single phase source of alternating current of a predetermined frequency, a circuit arrangement for starting and feeding first and second glow discharge tubes connected to said source via parallel circuits, the circuit to each tube from said source including a starting inductance and a stabilizing inductance connected in series with the tube and a capacity connected in parallel with the tube through only one of said inductances, and one only of said tube circuits including a capacity

connected in series with the tube to establish a phase difference between the current waves of the two tube circuits, the values of the starting inductance and parallel connected capacity of each tube circuit being so chosen as to produce respectively therein substantially resonant conditions at different harmonics of the frequency of said source.

2,588,859
PROCESS OF AND APPARATUS FOR SLITTING AND STRETCHING INSOLE MATERIAL
Henry G. Lumbard, Auburn, Maine
Application June 5, 1947, Serial No. 752,768
2 Claims. (Cl. 93—1)



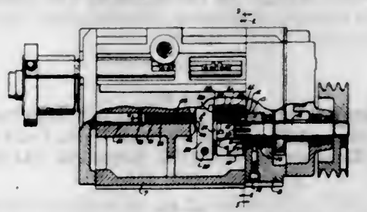
1. The process of rendering flexible a fibrous strip of insole material, which is characterized by advancing the strip in unheated condition by the rotation of a series of notched concentric rotary slitting knives and thus forming longitudinal slits therein, and stretching the slitted strip transversely in longitudinally progressive areas and opening the slits therein by passing it over a stationary convex former located closely adjacent to said slitting knives while the stock is advanced and still controlled by the knives.

2,588,860
SCREW-HOLE LINER
Milton Marks, Pittsburgh, Pa.
Application February 12, 1948, Serial No. 7,740
1 Claim. (Cl. 151—14)



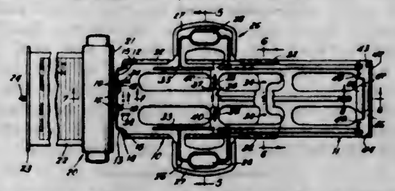
A screw-holder for anchoring a screw in a screw-hole, said holder having an elongated substantially semi-cylindrical metal body provided with opposite side edges and front and rear ends, said body having sections of outwardly pressed screw-receiving threads extending across it, the central portion of said body being provided with a pair of laterally spaced slits extending from its front end rearwardly throughout a major portion of its length to form a central flexible tongue between a pair of flexible side arms, the tongue projecting ahead of the side arms and having the opposite edges of its projecting portion provided with integral barbs projecting away from the convex side of the body for engagement with the wall of a screw-hole to prevent rotation of the holder therein, and the front edges of the side arms being inclined rearwardly from the tongue to the side edges of said body to form cam surfaces for pressing the arms toward each other when the holder is driven into an undersize screw-hole.

2,588,861
VARIABLE DELIVERY PUMP
Max A. Mathys, Detroit, Mich., assignor to Ex-Cell-O Corporation, Detroit, Mich., a corporation of Michigan
Original application February 17, 1941, Serial No. 379,211. Divided and this application November 15, 1946, Serial No. 710,153
6 Claims. (Cl. 103—162)



1. A pump comprising, in combination, a stationary valve member having an end valve face with peripherally spaced arcuate inlet and outlet valve ports, a rotary cylinder body having a plurality of annularly arranged parallel pump cylinders with end ports opening to an end valve face in flat bearing engagement with said first mentioned face, a plurality of pump plungers reciprocable in said cylinders, spring means for urging said plungers outwardly, an axial shaft for driving said body, said shaft extending freely through said stationary valve member into said body an angular swash plate coacting with the outer ends of said plungers for reciprocating said plungers in uniformly timed sequence upon rotation of said body, said cylinder ports moving successively through communication with said inlet and outlet ports upon movement of the respective plungers through their intake and pressure strokes, and interfitting splines drivingly connecting said body and the inner end of said shaft, the splines in said body being relatively short and the splines on said shaft being relatively long, said interfitting splines permitting limited relative floating movement of said body to insure uniform surface engagement between said valve faces.

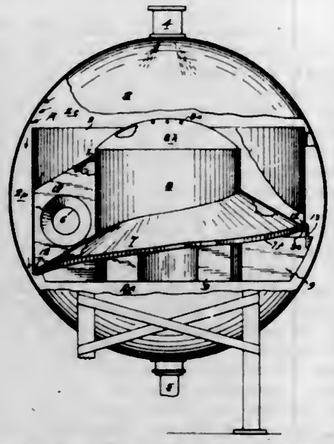
2,588,862
UNIVERSAL MOUNTING FRAME FOR USE WITH TELEPHONES
Edward L. Mayo, Cleveland, Ohio, assignor to Teledex, Inc., New York, N. Y., a corporation of New York
Application December 18, 1947, Serial No. 792,579
1 Claim. (Cl. 248—346)



In a universal mounting frame for securement to the base of a telephone, a lower substantially oblong frame member provided at its forward end with an upwardly extending flange shaped at its side portions to provide rearwardly extending supplementary flanges and clamp elements of slight extent relative to said flange extending from said supplementary flanges toward the sides of said frame member, an upper substantially oblong frame member slidable on said lower member lengthwise thereof provided at its rearward end with clamp elements of reduced width spaced

apart transversely thereof opposed to and yieldingly urged toward said clamp elements of said lower frame member, and means for securing said frame members together with said clamp elements thereof spaced a predetermined distance apart. said flange being provided with similarly directed rearwardly extending elements inclined toward one side thereof having keyhole slots therein for reception of the neck portions of headed attaching elements of a device to be mounted on said flange.

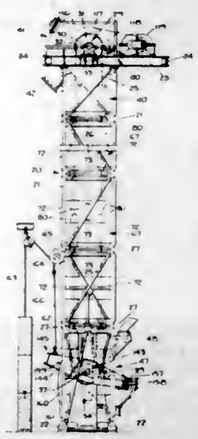
2,588,863
SPHERICAL SHELL FLUID SEPARATOR
Howard McCurdy, Walnut Park, Calif.
Application April 4, 1950, Serial No. 153,945
1 Claim. (Cl. 210—61)



A means for centrifugally separating entrained particles from a travelling fluid comprising a shell, a vertical cylinder having open top and bottom ends, a concentric column fixed within the cylinder, a pitched helical ramp fixed between the cylinder and the column and having basal parts supported on the shell and whose perimeter is spaced from the cylinder to provide a sediment outlet at the surface of the cylinder, said shell being spherical and centered on the axis of and wholly enclosing the cylinder and being closely spaced to and forming an acute angle outlet at the top rim of the cylinder to provide a down passageway around the cylinder, means fixing the ramp to the cylinder, and a fluid inlet tube mounted in said shell and said cylinder in a position to discharge fluid tangentially onto the lower end of the said ramp; the space above the upper end of the cylinder constituting a separation chamber and the space below the ramp constituting an accumulation compartment and the lower end of the cylinder being spaced all around from the shell.

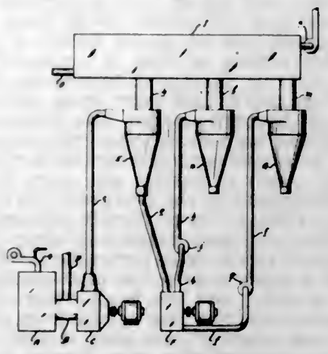
2,588,864
CONVEYER SHAFT COUNTERBALANCING AND INDICATING APPARATUS
Stanley M. Mercier, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application September 1, 1943, Serial No. 500,799. Divided and this application November 23, 1946, Serial No. 711,910
4 Claims. (Cl. 198—40)

1. In an elevator, a housing, a power driven head shaft and wheel assembly within said housing adjacent the top thereof, an idler foot shaft and wheel assembly within said housing adjacent the bottom thereof, endless chain conveyer means within said housing operating over said head and idler foot assemblies, guide means in said housing guiding said chain conveyer means between said head and idler foot assemblies, means guiding said idler foot assembly for movement along a rectilinear path in an upright plane, a frame having opposite side members each carrying one end of said idler foot assembly through a bearing fixed



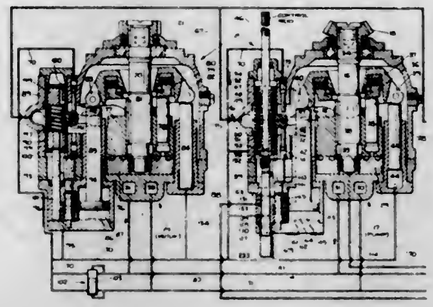
thereto, means mounting one end of each of said opposite frame members for pivotal movement about a generally horizontal axis movable in a plane intersecting said upright plane, a counterbalancing mechanism for counterbalancing said frame and a portion of the weight of said idler foot assembly whereby load and wear on said chain and head assembly are materially reduced, said counterbalancing mechanism including a weight operated winch, and indicator means associated with said frame indicating the elevational position of said idler foot assembly.

2,588,865
ART OF TREATING LEGUMES
August J. Moldenhauer, Menfro, Mo., assignor of one-third to John H. Bruninga, St. Louis County, Mo.
Application July 29, 1948, Serial No. 41,309
16 Claims. (Cl. 99—2)



1. In the art of treating legumes, the process comprising, heating a green legume while subjected to comminution at a temperature and for a period, viz., at a temperature gradient of 1,000–250° F. over a period of less than one minute, both sufficient to reduce the legume to a meal.

2,588,866
HYDRAULIC TRANSMISSION OF THE SWASH PLATE TYPE PUMP AND MOTOR, AND CONTROL MECHANISM THEREFOR
Sterling C. Moon, Worthington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, a corporation of Ohio
Application September 14, 1944, Serial No. 554,125
10 Claims. (Cl. 60—53)



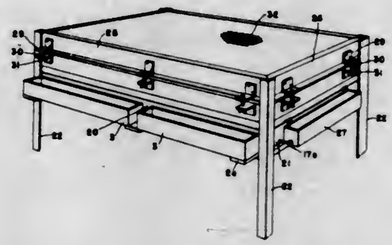
10. A hydraulic system including a hydraulic pump and a hydraulic motor, conduit means connecting said pump to deliver its output to said motor and to deliver exhaust fluid from said motor to said pump, and means for operating said hydraulic motor as a braking device, said means including a valve, mechanism for operating said valve to interconnect said conduit means including means responsive to hydraulic pressure in said exhaust conduit, and an operating handle for varying the braking action of said valve.

2,588,867
PYROLYTIC PRODUCTION OF CHLORO-HYDROCARBONS
Elton K. Morris, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application October 25, 1948, Serial No. 56,473
6 Claims. (Cl. 260—654)

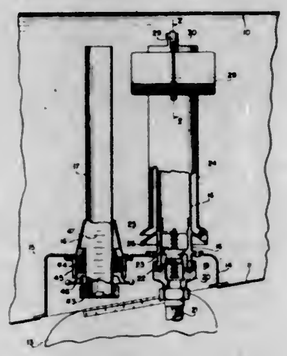
1. In a process wherein a hydrocarbon-free vapor mixture of a polychloroalkane containing from two to three carbon atoms and not over four chlorine atoms per molecule and from 5 to 100 mol per cent thereof of chlorine is pyrolyzed at a temperature of 300° to 650° C., the improvement which comprises carrying out the pyrolysis in the presence of a catalytic proportion of bromine vapor.

2,588,868
BROODING METHOD
James W. Napier, Macon, Ga., assignor of one-tenth to William J. Ruano, Pittsburgh, Pa.; Margaret H. Napier executrix of estate of said James W. Napier, deceased
Application July 11, 1947, Serial No. 760,211
1 Claim. (Cl. 119—31)

The method of raising poultry from the chick to the broiler stage in a brooder having an uncovered metal floor, comprising applying heat underneath said floor so as to maintain a uniform floor temperature of the order of 105° F.

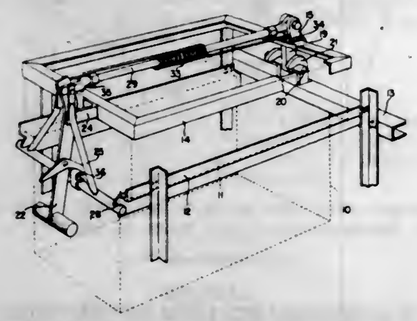


2,588,869
UNDERWING FUELING CONNECTION
John S. Pinaire, Montrose, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application September 10, 1947, Serial No. 773,279
2 Claims. (Cl. 137—68)



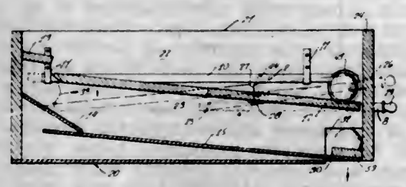
1. An under wing tank filling connection comprising an inlet duct located in the bottom of the tank and extending upwards therein above the maximum liquid level in said tank, a quick-detachable self-sealing nozzle connection to the lower end of said duct, said lower end of the duct having a check valve therein opened by the pressure of fluid in said hose nozzle when the latter is connected thereto whereby to prevent emptying of said duct when the hose nozzle is detached therefrom, a concentric sleeve surrounding said inlet duct, a diffuser associated with the lower end of said sleeve and so located within the tank as to be normally positioned below the liquid therein, a differential pressure valve slidable in said sleeve above said inlet duct, said valve being arranged to seat on top of said inlet duct in one position thereof, a cap seated on said sleeve to define a chamber above said differential valve, a first valve carried by said cap arranged to admit fluid past said differential pressure valve into the chamber thereabove, a second valve arranged to vent said chamber, and float controlled means for alternately opening one of said first and second valves and simultaneously closing the other in response to variations in liquid level on said tank.

2,588,870
BATTERY HOLD-DOWN
Kenneth F. Pittman, North Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application February 18, 1948, Serial No. 9,299
3 Claims. (Cl. 180—68.5)



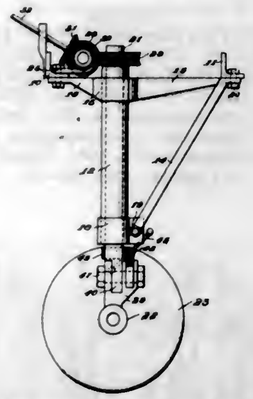
1. A battery holddown comprising the combination with a battery compartment, a battery adapted to fit therein, and a frame adapted to embrace the battery, of toggle means releasably interconnecting said frame with fixed parts of the battery compartment, said toggle means including a first link having one end pivoted to said frame; a second link having one end releasably engaging a fixed element in said battery compartment, said first and second links being pivoted to each other at their other ends, said links being so proportioned that the second link disengages said fixed part when the first link is moved to one side of its pivot with said frame and to lockingly engage said fixed part when the first link is moved to the other side of its pivot with said frame; and handle means pivotally mounted on said frame for operating said toggle means to engage the frame with or disengage it from the battery compartment and adapted to facilitate the withdrawal of the frame and battery embraced thereby from the compartment when the frame is disengaged therefrom.

2,588,871
BALL-DISPENSING ATTACHMENT FOR POOL TABLES
Douglas F. Price, Crystal Springs, Miss.
Application August 16, 1949, Serial No. 110,485
6 Claims. (Cl. 312—49)



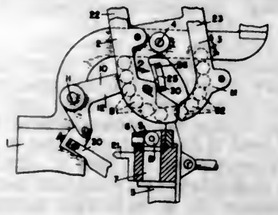
2. A billiard ball-dispensing device comprising a housing, means defining a longitudinal chute compartment in said housing, a tiltable dispensing trough in said compartment, means for tilting said trough, said last-named means comprising a lever pivoted in said housing and engaging said trough, said lever being arranged to tilt said trough each time the lever is oscillated, means locking said lever after a predetermined number of oscillations thereof, and coin-controlled means for releasing said locking means.

2,588,872
DISK CULTIVATOR
Walter E. Price, Jr., Clinton, Miss.
Application July 29, 1946, Serial No. 686,897
6 Claims. (Cl. 97—54)



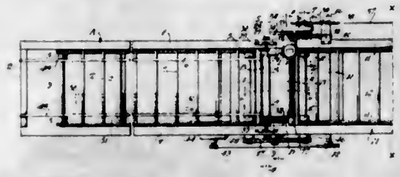
1. In a cultivator, a frame, a plurality of horizontally spaced vertical housings supported by the frame in depending relation thereto, a vertical shaft rotatably supported in each housing, a disc supported by the lower end of each vertical shaft for rotation on a generally horizontal axis, a gear secured to the upper end of each vertical shaft, a horizontal shaft rotatably supported by the frame, gears on the horizontal shaft cooperating with the gears on the vertical shafts, and means for imparting rotation to the horizontal shaft, the housings being supported by the frame for adjustment in a direction axially of the horizontal shaft and the gears on the horizontal shaft being adjustable axially thereof whereby the spacing of the vertical shafts may be varied with a retention of the drive connection with the horizontal shaft.

2,588,873
TRANSFERRER ARM FOR WEFT REPLENISHING LOOMS
Francesco J. Pusateri, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application November 10, 1950, Serial No. 195,115
6 Claims. (Cl. 139—244)



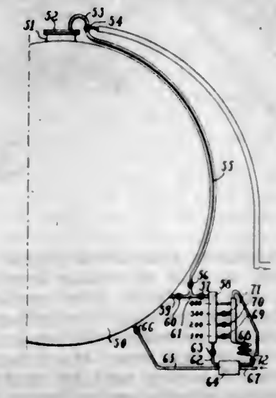
1. In a transferrer arm for a reserve bobbin having a mass of weft between the butt and top thereof, a foot on the arm to engage the butt end of the bobbin, a second foot on the transferrer arm for engagement with the weft on the bobbin, an auxiliary foot for engagement with the tip end of the bobbin, adjusting means connecting the second and auxiliary feet to vary the distance therebetween, and guide means spaced from the adjusting means slidable relatively to the second foot and cooperating with the adjusting means to support the auxiliary foot.

2,588,874
GLUE APPLYING MACHINE FOR GLUE PRESSES
Lloyd Quick, Poughkeepsie, N. Y., assignor to James L. Taylor Manufacturing Company, a corporation of New York
Application April 3, 1947, Serial No. 739,235
4 Claims. (Cl. 118—1)



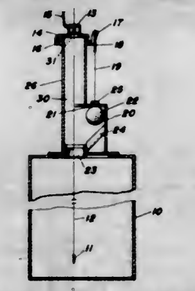
1. A glue-applying machine comprising a glue-applying unit having a movable glue-carrying surface, a conveyor system for objects to be glued having feed portions and take-off portions disposed at opposite sides of said glue-carrying surface and movable in the same direction so that said objects are moved into and out of contact with said glue-carrying surface by said feed and take-off portions, respectively, driving means for both said conveyor portions, mechanism including a movable part actuated by said objects on said take-off portion for automatically stopping said conveyor portions, and means mounting said movable part for adjustment relatively to said take-off portion to cause said stopping at a selected point.

2,588,875
CALIBRATED LIQUID LEVEL GAUGE
Harold A. Quist, Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application November 16, 1946, Serial No. 710,279
2 Claims. (Cl. 73—290)



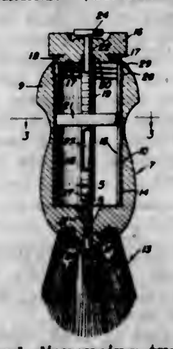
1. In combination: a sealed pressure vessel for the storage of volatile liquids having a vapor space above the liquid level; a conduit, the upper end communicating with said vapor space and the lower end communicating with the liquid space; valve means in the upper end of said conduit to transmit the vapor pressure of said storage tank thereto and isolate said pressure condition therein; valve means in the lower end of said conduit to admit liquid from said storage tank thereto and isolate the liquid therein, thereby subjecting the admitted liquid to the already admitted pressure; a primary volumetric liquid measuring container calibrated in large volume units cooperating with the lower end of said conduit; valve means to admit the isolated liquid in said conduit into said primary measuring container; and a secondary volumetric liquid measuring container adapted to be selectively connected to said primary measuring container at the points of large volume unit calibrations and calibrated to measure liquid volume in subdivisions of said large calibrations thereby acting as a vernier.

2,588,876
GAUGING AND SAMPLING HATCH
Harold A. Quist, Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application December 18, 1948, Serial No. 66,049
10 Claims. (Cl. 220—44)



1. A safety hatch for openings in storage tanks containing volatile liquids comprising a housing having an opening in the top thereof aligned with the tank opening, a cover for said top opening hinged to said housing, a closure in said housing adapted to seal the tank opening when said cover is open, a positioning member secured to said closure and passing through the wall of said housing for external operation, and means on said cover to cooperatively engage the positioning member and withhold the closure from the tank opening when said cover is closed.

2,588,877
SCREW ACTUATED PISTON DISPENSER
Joseph A. Reed, Firebaugh, Calif.
Application October 4, 1948, Serial No. 52,694
2 Claims. (Cl. 222—260)

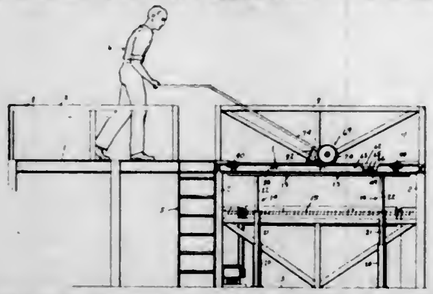


1. A force-feed dispensing-type shaving brush of the class shown and described comprising a hollow handle closed at one end and provided in said end with a central discharge passage and an accompanying well in alignment with said passage, an open-ended cylinder fitting telescopically and removably in the said handle, one open end of the cylinder bearing against and being closed

by the closed end of said handle, the opposite end of said handle being open and internally screw-threaded, the corresponding end of said cylinder being screw-threaded and screwed into said handle, a hand turned knob closing and swivelly mounted in the last-named end of the cylinder, a force-feed screw rigidly attached to said knob, and a plunger slidably keyed in said cylinder and having screw-threaded operating connection with said feed screw.

2,588,878
SCREEN PRINTING APPARATUS
Wallace M. Reemelin, Berkeley, and Roger W. Olmsted, San Francisco, Calif., assignors to Foster and Kleiser Company, San Francisco, Calif.
Application September 16, 1946, Serial No. 697,294
2 Claims. (Cl. 101—123)

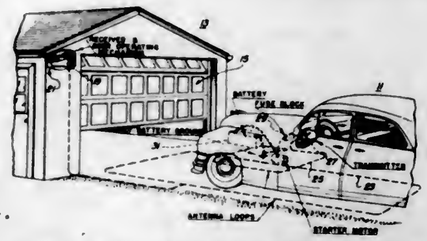
1. Screen printing apparatus comprising a



horizontal printing frame supporting a screen through which the printing medium is to be forced from above, a flat, substantially rectangular horizontal printing base below said frame for supporting the material to receive the said medium for making the desired imprint, axially extensible vertically disposed telescopic posts supporting said base at points adjacent its four corners for vertical reciprocable movement to and from said frame, means for admitting fluid under pressure into said posts for extending the same for causing said movement to said frame and for exhausting said fluid for permitting collapse of said posts and movement of said base away from said frame, foot controlled valve means below said frame for controlling the flow of said fluid into and out of said posts, and power means along one edge of said base for carrying said material away from said base when said posts are collapsed and said base is spaced below said frame, the laterally projected area of the space between said base and said frame along the edge of said base opposite said one edge thereof being unobstructed for manual manipulation of said material on said base by an operator positioned adjacent said one edge when said posts are collapsed.

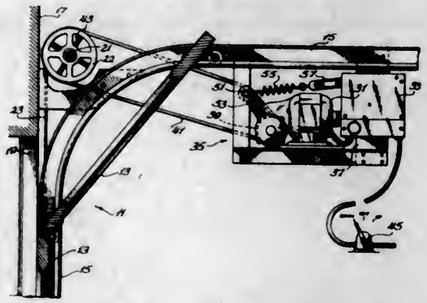
2,588,879
AUTOMATIC DOOR CONTROL SYSTEM
George F. Richards, Garden City, N. Y., assignor to Teletronics Laboratory, Inc., Westbury, N. Y., a corporation of New York
Application August 23, 1948, Serial No. 45,759
5 Claims. (Cl. 268—59)

5. A door operating system for opening and closing a movable door system, comprising an electric motor operatively coupled to the door system, an induction impulse receiving loop, a control circuit connected to said loop for energizing said motor upon reception of an induced transient current impulse in said receiving loop, and a vehicle-borne transmitter system for momentarily energizing said receiving loop by induction coupling, said transmitter system comprising a vehicle transmitter wire loop, and a battery and a momentary contact switch connected in series between the end terminals of said transmitter loop, said switch comprising a toggle switch including a slider element shiftable between first and second rest positions through



an intermediate position of unstable equilibrium, said switch further including elastic means for accelerating said slider element during its progress through said intermediate position, said switch being in open-circuit condition at each position of rest and said slider element making the circuit through said switch momentarily during its passage through said intermediate position.

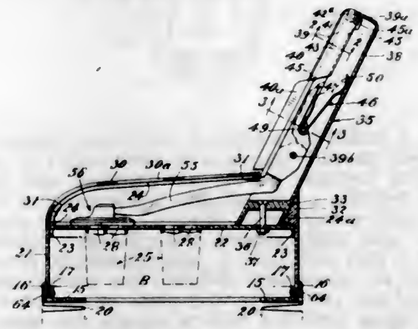
2,588,880
DOOR DRIVE SYSTEM
George F. Richards, Garden City, N. Y., assignor to Teletronics Laboratory, Inc., Westbury, N. Y., a corporation of New York
Application March 2, 1949, Serial No. 79,215
3 Claims. (Cl. 268—59)



1. In combination, a sectional garage door system including a pair of tracks extending upwardly and rearwardly, a door guided therein and including multiple hinge-connected sections, and a cross-shaft between said tracks and coupled to said door, said cross-shaft having a V-pulley thereon; a motive unit for said door system including an electric motor having speed reduction gears and a low-speed output V-pulley aligned coplanarly with said cross-shaft V-pulley; an endless V-belt extending over said motor output V-pulley and said cross-shaft V-pulley and having appreciable slack therein; at least one idler pulley arm and one idler pulley thereon bearing against the leg of said belt wherein tension is exerted to raise said door, said idler pulley arm being pivotally mounted to enable said idler pulley to contact said leg of said belt; means including said motive means for driving said door downward to the lower limit of its travel and stalling said motor, thereby increasing the length of the belt in said leg between said V-pulleys by

virtue of the increased tension in the opposite leg of the V-belt; and means including said idler pulley arm and said idler pulley and elastic means coupled to said idler pulley arm for normally providing appreciable deflection in said contacted belt leg during movement of said door and for materially increasing the deflection of said contacted leg of said belt and retaining it in the position of increased deflection when said door is forced to its closed position, thereby retaining the door closed with appreciable downward force exerted thereon after said motive means is deenergized.

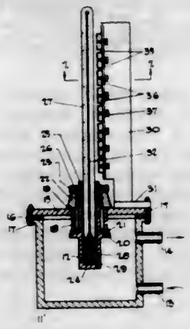
2,588,881
ACCORDION
Richard R. Rieschick, New York, N. Y.
Original application June 10, 1947, Serial No. 753,683. Divided and this application September 11, 1948, Serial No. 48,861
1 Claim. (Cl. 84—376)



In an accordion, the combination with a white accordion key consisting of a single metallic member extending from tip to tip in a plane, having a key leg and a valve leg forming an obtuse angle with each other, and having an enlarged portion in the same plane with the key leg and extending downwardly from the same, and having a pivot opening therein, of a one piece plastic outer enclosure for the key leg, having parallel walls extending over said key leg at both sides thereof throughout the entire length and width thereof and over said enlarged portion, each wall having a pivot opening in registration with the pivot opening in the enlarged portion, and said enclosure having a flat finger contacting plate extending over said key leg the length thereof and laterally over said key leg embracing walls, and laterally beyond both sides of said walls, and at its margins downwardly to form flanges of the plate and extending forwardly at the front end of the key leg, whereby the flat metallic key leg is encased by said enclosure and limited in its movement by the front flange and by a pivot shaft passing through the registering holes, and the front downwardly extending flanges of adjacent keys protect the fingers of the player when depressing a key.

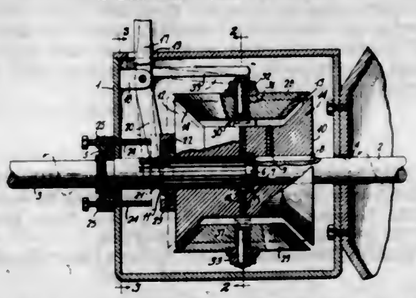
2,588,882
TEMPERATURE COMPENSATOR FOR CAPACITORS
Francis B. Rolfson, San Pablo, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application April 27, 1948, Serial No. 23,437
2 Claims. (Cl. 175—183)

1. In a system for measuring the dielectric constant of a fluid, a condenser having an outer and an inner concentric cylindrical plates, said plates being electrically insulated and spaced from each other to form a condenser cell adapted to receive a dielectric fluid between said plates, a mercury column type thermometer having its mercury bulb end inserted within the inner cylindrical plate in capacitative coupling therewith, an elongated metallic compensator bar member



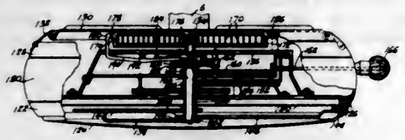
rigidly affixed and electrically connected to the outer cylindrical plate, said compensator bar being mounted in parallel relationship and closely adjacent to said thermometer, lateral adjusting means on said compensator for regulating the amount of capacitative coupling between said compensator and said mercury column, and means for connecting said two plates to terminals of opposite polarity.

2,588,883
REVERSING MECHANISM
Thomas B. Royal, Homestead, Fla.
Application September 15, 1950, Serial No. 185,056
2 Claims. (Cl. 74—205)



1. In reversing mechanism, a driving shaft and a driven shaft, a friction cone fixed upon one of said shafts, a friction cone slidably mounted upon the other of said shafts, said cones having matching vertical faces, a pivoted operating lever for moving said slidable cone into and out of facial engagement with said fixed cone, a pair of bell cranks pivotally mounted and each having a vertical arm and a horizontal arm, the vertical arms lying in the same plane and overlapping, a friction cone rotatably carried by the horizontal arm of each bell crank with their axes perpendicular to the axes of said driving and driven shafts, and an arm projecting from said operating lever to contact the horizontal arm of one of said bell cranks, whereby movement of said operating lever will cause sliding movement of said slidable cone and rocking movement of said bell cranks to move said perpendicularly mounted cones into and out of engagement with said slidable and fixed cones.

2,588,884
ALARM TIMEPIECE
Oliver M. Schafer, Trenton, N. J.
Application November 18, 1948, Serial No. 60,666
2 Claims. (Cl. 58—57.5)

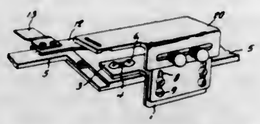


1. An alarm time-piece comprising timing elements, an alarm member, means for holding the alarm member in engagement with a user's body, a spring for moving the alarm member, escapement means controlling movement of the alarm member, said timing elements including an axially movable shaft having an hour hand secured thereto and means movable by said shaft on axial movement of the latter for controlling operation of said alarm mechanism.

2,588,885
PREPARATION OF GAS EXPANDED PLASTIC MATERIALS
Ruth L. Schlesinger, Waterbury, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application April 22, 1949, Serial No. 89,157
9 Claims. (Cl. 260—724)

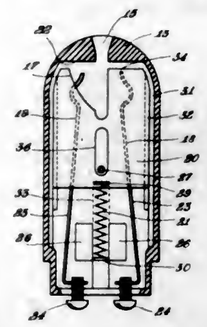
1. The method of making a gas expanded organoplastic material which comprises mixing an aryl azo sulfone in which the aryl ring is additionally attached only to radicals selected from the class consisting of hydrogen, halogen, and alkyl, with an organoplastic material which is capable of setting to a normally solid state and having sufficient consistency and tensile strength at temperatures of from 80° C. to 200° C. to retain the expanded structure resulting from the subsequent heating step, and decomposing said sulfone by heat to evolve nitrogen and expand said organoplastic material.

2,588,886
FABRIC GUIDE FOR SEWING MACHINES
Leo Schwartz, New York, N. Y., assignor to Automatic Sewing Equipment Co., Inc., New York, N. Y., a corporation of New York
Application November 7, 1947, Serial No. 784,536
7 Claims. (Cl. 112—136)



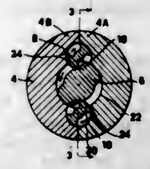
1. A fabric guide construction for sewing machines comprising a base having a horizontal portion adapted to be attached to the top of a machine bed and a vertical portion extending downwardly therefrom below the top of said bed, an angular member having a vertical portion secured to the vertical portion of said base and a horizontal portion having an extension terminating adjacent to the needle of said machine, a guide holder having a vertical portion secured to the vertical portion of said angular member and a horizontal portion overlaying said extension, and a fabric guide on said overlaying portion in front of and adjacent to said needle.

2,588,887
SOCKET FOR AN ELONGATED TUBULAR LAMP HAVING SPACED CONTACT PINS AT ITS ENDS
Johannes Semeyn, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application August 9, 1947, Serial No. 767,687
In the Netherlands August 24, 1946
2 Claims. (Cl. 173—328)



1. A socket for electrical apparatus having two spaced parallel supply pins, comprising a supporting member having a transverse wall portion defining a housing and being provided with an open-ended guide channel for said supply pins, said wall portion being further provided with a first slot open to said channel to provide a line of intersection between the central plane of said slot and the central plane of said channel and being provided with a second slot open to said channel, said first and second slots terminating at points of said wall portion which are spaced apart by the distance between said supply pins and at which a longitudinal axis of symmetry midway between said terminating points is less than half the distance between said supply pins from said line of intersection, electrical contact members for said supply pins positioned within said housing at said terminating points, and an electrically insulating shielding member interposed between said contact members and said wall portion, said shielding member being movable to uncover said contact members upon insertion of said supply pins in said guide channel, said shielding member having an upper edge surface configuration aligning with said guide channel and said slots in the said wall portion in the said uncovered position of said contact members.

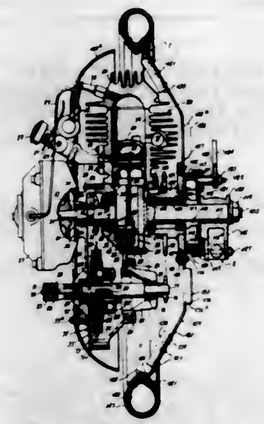
2,588,888
PUMP
Morgan B. Sennet, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey
Application February 8, 1949, Serial No. 75,108
8 Claims. (Cl. 103—128)



1. A multiple screw device comprising a housing, and at least two intermeshing screws

mounted to rotate in bores in said housing, one of said screws having at least one convex thread and the other having at least one concave thread, the peripheral portions of said screws substantially engaging the walls of said bores, the inner surface of the bore receiving the screw with the concave thread being provided with liquid distributing, shallow grooves, each of limited axial length and of a transverse width substantially less than its axial length, the dimensions being such that no liquid distributing groove may be simultaneously in communication with the spaces on opposite sides of a thread of the last mentioned screw.

2,588,889
MOTOR WHEEL AND MOUNTING STRUT
Henry A. Sherwood, Tarrytown, N. Y., assignor to Adrienne M. Sherwood, Tarrytown, N. Y.
Application July 22, 1948, Serial No. 40,048
20 Claims. (Cl. 180—33)

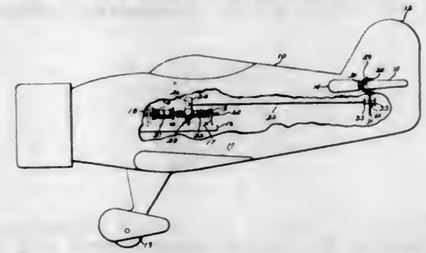


1. A motor wheel, comprising: an engine including a crankshaft and a housing for said crankshaft; a stationary solid stub shaft carried by said crankshaft housing and projecting therefrom substantially in endwise axial alignment with the axis of rotation of said crankshaft; a road wheel rotatably mounted upon said stub shaft; and means including a counter-shaft driven from said crankshaft drivingly interconnecting said crankshaft and road wheel.

2,588,890
ALLYL ALCOHOL-STYRENE COPOLYMERS
Edward C. Shokal, Oakland, and Paul A. Devlin, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 5, 1948, Serial No. 19,176
6 Claims. (Cl. 260—407)

1. A process for the production of a drying ester which comprises heating a liquid mixture of polymerizable compounds consisting of allyl alcohol and 10% to 40% styrene at 100° C. to 200° C. while bubbling oxygen therethrough, and subsequently esterifying substantially completely the resulting copolymer with unsaturated fatty acid of 12 to 20 carbon atoms having an iodine number of at least 85.

2,588,891
MODEL AIRPLANE CONTROL
Sammy J. Spradlin, Ashland, Ky.
Application July 9, 1946, Serial No. 682,396
3 Claims. (Cl. 46—77)



1. In a model airplane including a fuselage having a horizontal stabilizer, an elevator positioned contiguous to said stabilizer and pivotally supported on the rear edge thereof, and opposed wings projecting from opposite sides of said fuselage and secured thereto, a remotely actuated control operatively connected to said elevator for urging the latter into select positions of its pivotal movement, said control comprising a shaft positioned longitudinally within said fuselage and rotatably supported therein, a spool circumposed about said shaft at a point intermediate said opposed wings and secured to said shaft, a screw threaded spindle positioned rearwardly of and in end to end aligned relation with said spool and secured to said shaft, a nut carried on said spindle in threaded engagement therewith and movable longitudinally therealong in response to the rotary movement of said shaft, a control rod positioned interiorly of said fuselage and having one end operatively connected to said elevator and having the other end operatively connected to said nut for pivotally adjusting the elevator in response to the longitudinal movement of the nut, and a control string having an intermediate portion wound about said spool and having its free ends extending exteriorly of said fuselage along one wing thereof for imparting a rotary movement to the assembly of said shaft, spool and spindle.

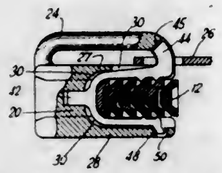
2,588,892
7-DEHYDROSTEROL RHODANIDE AND PROCESS
Jan Strating, Groningen, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
No Drawing. Application April 11, 1950, Serial No. 155,361. In the Netherlands April 14, 1949
3 Claims. (Cl. 260—397.2)

1. As a new composition of matter, a 7-dehydrosterol rhodanide.

2,588,893
AUTOMATIC LOCK SLIDER FOR SLIDE FASTENERS
Gideon Sundback, Meadville, Pa., assignor to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania
Application August 3, 1946, Serial No. 688,213
12 Claims. (Cl. 24—205.14)

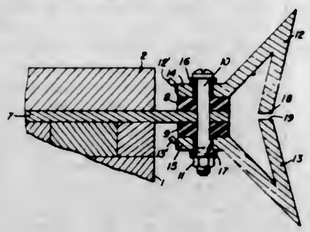
1. A slide fastener comprising in combination, a pair of rows of interlocking elements, a slider having a passage for the rows and adapted when moved in one direction along the rows to interlock the rows to close the fastener and when moved in the opposite direction along the rows

to disengage the rows to open the fastener, a locking member movable longitudinally in the slider and adapted to project into the passage, means carried by the slider resiliently holding the locking member in a fixed position projecting into the path of the interlocking elements



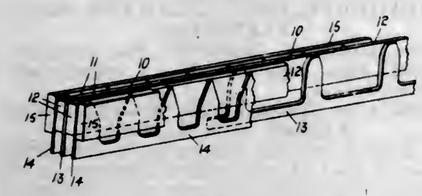
through the passage, and means responsive to engagement of an interlocking element with the locking member and subsequent longitudinal movement of the slider along the rows in the opening direction for moving the locking member further into said path.

2,588,894
INSECT AND RODENT EXTERMINATOR
Clifford B. Taff, Greenville, N. C.
Application September 17, 1947, Serial No. 774,593
5 Claims. (Cl. 43—112)



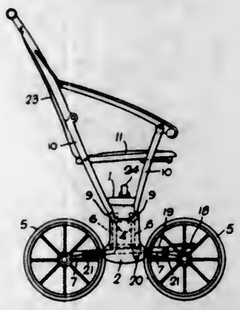
4. Means for preventing pests from crawling from one to another of adjoining wall sections, said means comprising a plate engaging and interposed between the wall sections and including a portion projecting laterally therefrom, electrodes spaced from the wall sections and secured to said plate portion to extend along the outer edge thereof, said electrodes being insulated from and disposed on opposite sides of the plate, and means for establishing an electric potential between the electrodes.

2,588,895
GAS BURNER WITH FLAME RETAINING PORTS
Ernest Edward Tavener, London, England, assignor to Keith Blackman Limited, London, England, a corporation of Great Britain
Application January 31, 1947, Serial No. 725,442
In Great Britain February 4, 1946
1 Claim. (Cl. 158—116)



A gas burner including a longitudinally slotted tube, an assembly mounted in the slot in the tube and contacting the sides of the slot, said assembly comprising a plurality of plane parallel strip members and plane-sided serrated spacer members having outwardly pointed serrations interposed between and contacting neighbouring strip members for spacing said strip members apart, the points of the serrations being flush with the outer edges of neighbouring strip members, said strip and spacer members extending in parallel relation longitudinally of said tube with their plane sides in contact, these serrations extending below the parallel strip members, said strip members and said spacer members, collectively forming at least one main slot and at least one supplementary slot constituting passages for the flow of combustion mixture to the outlet defined by the upper edges of said strip and spacer members, the entrance to the main slot being substantially unobstructed by a spacer member having widely spaced serrations and interposed between two strip members, and the entrance to the supplementary slot being considerably obstructed by a spacer member having closely spaced serrations and interposed between two strip members.

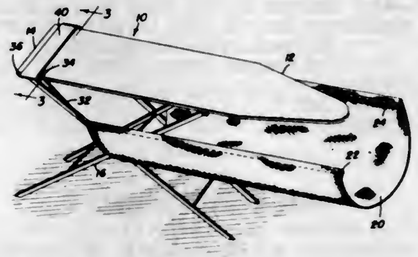
2,588,896
FOLDING PUSH CHAIR
George Thomas, Hayes, England
Application April 15, 1949, Serial No. 87,800
2 Claims. (Cl. 280—38)



1. The combination in a collapsible push chair of a bridge shaped frame, depending end walls thereon, axle brackets having vertical and horizontal limbs, a pair of wheels mounted on each horizontal limb, pivoted supports for the vertical limbs on said end walls, folding side frame members, a seat supported by the frame members, gear segments on said frame members, gear elements turnable freely on the vertical limbs engaging the gear segments to impart a turning movement to the axle brackets to swing these and the wheels into and out of operative position when the chair is opened out and collapsed respectively, a lost motion device consisting of dog couplings fitted to each of the gear elements and a bar-like part rigidly secured to the upper end of each vertical limb, springs controlling said lost motion device, whereby a wheel of each pair of wheels opens earlier and closes later than the other wheel.

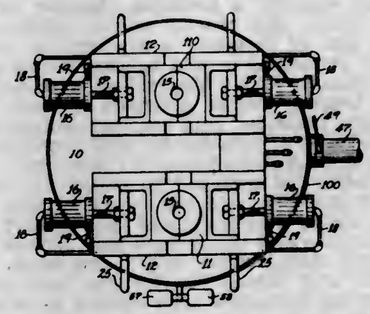
2,588,897
IRONING BOARD ATTACHMENT
Morris Thompson, Eau Claire, Wis.
Application December 27, 1949, Serial No. 135,107
1 Claim. (Cl. 38—111)

An ironing board attachment for preventing clothes from dropping to the floor comprising an elongated sling and means for detachably suspending said sling from the board, said sling including a pair of sleeves at the opposite edges thereof, said means including a pair of wires each having a forward horizontal portion received in one of said sleeves, a rearwardly, upwardly and inwardly inclined portion integral with said forward portion, and a horizontal rear portion integral with said inclined portion and



extending parallel to said forward portion, a plate engageable with the upper face of the ironing board and disposed transversely of said horizontal rear wire portions and including longitudinal sleeves at its opposite ends journaling said rear portions of said wires, and laterally extending L-shaped hooks integral with said rear portions and adapted to grip the side edges of the ironing board.

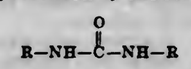
2,588,898
APPARATUS FOR MOLDING PISTONS
William M. Venner, Ladue, and Percy L. Bowser, University City, Mo.
Application May 27, 1950, Serial No. 164,812
2 Claims. (Cl. 22—77)



1. An apparatus for molding trunk pistons of aluminum and magnesium alloys having relatively high crystallization shrinkages and coefficients of expansion and embodying a head having a relatively thick cross section and a skirt of relatively thin cross section, in which a molder's station is arranged adjacent a supply of molten metal, comprising, a plurality of piston molds, each shaped to cast the piston with the head up, each provided with a gate at the top and with a core movable downwardly from the bottom, a carrier for said molds and their respective cores which are maintained thereon with their gates up and with their cores below, said molds and their respective cores being arranged in diametrically spaced relation on said carrier so that when one mold and its core is at the molder's station, the other mold and its core will be away from that station but diametrically opposite the first mold and its core and with its gate within the direct and unobstructed view of the molder at the station while pouring the mold at that station, mechanism for opening and for closing each mold and for withdrawing and for replacing its core while at that station, means for mounting said carrier for movement, and power-operated mechanism under control of the molder at the molder's station for rapidly shifting said carrier and with it said molds and their respective cores in synchronism while maintaining their relative positions with each mold and its core to positions: first contiguous the molder's station for pouring of the metal into the top of the mold, second away from the station for setting of the metal, and third back to the station for downward withdrawal of the core, opening of the mold, removal of the casting from the top of the mold and closing of the mold and core for repouring.

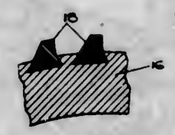
2,588,899
STABILIZED COMPOSITIONS CONTAINING HIGH MOLECULAR WEIGHT HALOGENATED MATERIALS
Heino Tonnis Voorthuis and Christiaan Pieter van Dijk, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application August 23, 1950, Serial No. 181,108. In the Netherlands September 2, 1949
10 Claims. (Cl. 260—45.7)

1. A composition of matter stabilized against deteriorating effects of heat and light comprising essentially a halogen-containing organic substance having a molecular weight above 2000 in admixture with a stabilizing amount of (1) an acid-neutralizing compound, (2) an oxidation inhibitor different from said compound, and (3) a compound represented by the formula



wherein R is a member of the group consisting of hydrogen and a phenyl radical containing a nuclear-substituted sulfur-free polar group, at least one R being said substituted phenyl radical, said polar group being a member of the class consisting of R'O—, NO_2—, halogen—, R'HN—, $R'N_2$—, R'OOC—, and R'CO—, wherein R' is a hydrocarbon radical of up to 10 carbon atoms.

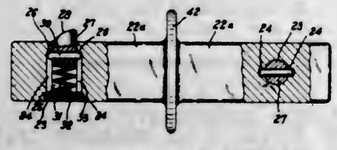
2,588,900
CRUSHER-ROLL COVERING ELEMENT
Harry R. Warsmith, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application November 1, 1949, Serial No. 124,879
1 Claim. (Cl. 241—294)



A crusher roll covering element formed entirely of cast metal components including a body member made of a cast metal including iron, and material crushing and breaking teeth made of a different cast metal fixed permanently on said cast metal body and projecting radially outwardly therebeyond, said cast metal teeth being made of a hard iron alloy including nickel and chromium and having a hardness of between 50 and 62 Rockwell, said body and cast teeth being permanently united into a unit by

casting the metal of the body about the base portions of said cast teeth whereby said body upon cooling seizes said base portions of said teeth.

2,588,901
SHANK AND SOCKET CONNECTION FOR AUGERS
Harry L. Weikart, Salem, Ohio, assignor to The Salem Tool Company, Salem, Ohio, a corporation of Ohio
Application May 19, 1949, Serial No. 94,179
6 Claims. (Cl. 255—69)

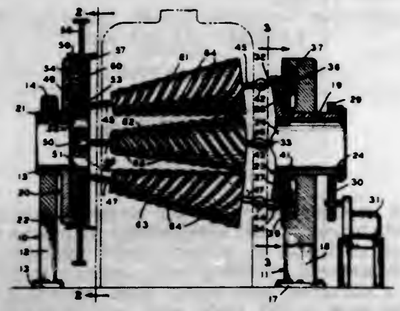


1. In combination with two auger sections each having a tubular shaft portion, socket members connected to the ends of the tubular shafts, each socket member comprising a cylindrical portion inserted into one end of the tubular shaft and an enlarged, annular shoulder butted against and welded to the adjacent end of the tubular shaft, and a detachable, double shank member comprising two oppositely disposed shanks for fitting within said sockets and an integral, central, annular rib between said shanks.

2,588,902
PEROXIDE TREATMENT OF FATTY OILS
Leonard P. Wiebe, Long Beach, Calif., assignor to Shell Development Company, Emeryville, Calif., a corporation of Delaware
No Drawing. Application September 26, 1950, Serial No. 186,926
8 Claims. (Cl. 260—405.6)

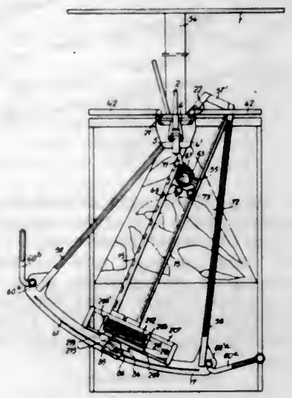
1. A process of improving the drying properties of fatty oil having an iodine value of at least 120 which comprises heating said oil at about 100° C. to 250° C. in the presence of a peroxide compound containing a tertiary-alkyl peroxy radical.

2,588,903
LOG PEELING AND SHAPING APPARATUS
Jake Akins, Statesboro, Ga., assignor of one-half to Alfred A. Dorman, Statesboro, Ga.
Application January 23, 1947, Serial No. 723,845
3 Claims. (Cl. 144—208)



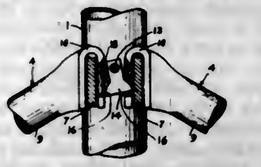
1. A log peeling and shaping apparatus comprising a plurality of frusto-conical members rotatable about their own axes and revolvable about a common axis, spiral cutting elements on said rotatable members, rotatable means supporting said members adjacent the ends thereof and arranged for the passage of logs therethrough and between said members, and adjustable means resiliently urging the smaller end of said frusto-conical members toward said common axis.

2,588,904
ARTILLERY TRAINING DEVICE
Gustave Charles Auguste Alric, Troyes, France
Application July 26, 1947, Serial No. 763,970
In France February 9, 1940
8 Claims. (Cl. 35—25)



1. An apparatus for the training of gunners in which an optical projector representing a piece of artillery throws a spot of light on a vertical screen, comprising in combination, a horizontal support for maps of a field of fire in topographical view; a frame rigidly connected to said horizontal support; a projector; bearing means in said frame, said bearing means defining a vertical axis of rotation; a support for said projector connected to said bearing means so as to be rotatable about the vertical axis defined by said bearing means; bearings on said support for said projector, said bearings defining a horizontal axis of rotation for said projector; a set of calibrated slides being in contacting relationship with, and arranged for motion on, the horizontal maps on said horizontal support; means for coupling said slides and said support to turn the latter about the vertical axis defined by said bearing means when said slides move on the maps; and means for turning said projector about the horizontal axis defined by said bearings.

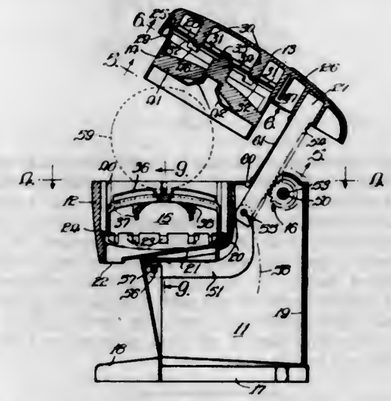
2,588,905
SCAFFOLD BRACING
Leroy S. Blackburn, Harmony, Pa., assignor to Universal Manufacturing Corp., Zelienople, Pa., a corporation of Pennsylvania
Application March 7, 1950, Serial No. 148,142
6 Claims. (Cl. 304—40)



1. The combination with a vertical leg, of bracing comprising a bracket projecting from the side of the leg and having laterally spaced side walls connected at their outer ends by an end

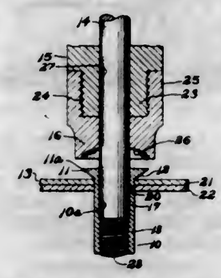
wall provided with a hole through it, a pivot pin extending through said hole, a locking dog rigidly mounted on the pin between said side walls and hanging down between them, the dog having lower corners adjacent said side walls but normally spaced therefrom, and removable braces extending in opposite directions from the sides of the bracket, each brace having a vertical end member extending down into the bracket along the inner surface of one of its side walls, said end member being provided with an upwardly facing surface beneath the adjacent lower corner of the dog to lock the brace in the bracket, and said pin being adapted to be turned manually to swing the dog away from said end member so that the brace can be lifted from the bracket.

2,588,906
CITRUS FRUIT PRESS
Jesse H. Clark, Chicago, Ill., assignor to Cory Corporation, Chicago, Ill., a corporation of Delaware
Application November 25, 1949, Serial No. 129,387
3 Claims. (Cl. 100—42)



1. A juicer of the class described comprising a base, a bottom-spouted cup supported on said base, the bottom of the cup being inclined downwardly and forwardly from the rear wall of the cup and terminating short of the front wall thereof, and the spout depending from the lower edge of said bottom between the same and the front wall of the cup, an arm reciprocatingly mounted on said base, a pair of complementary juice-expressing elements having radially disposed slots therein, one of said elements being of hollow cylindrical form with a peripheral base flange and an arcuate shaped dome having a plurality of upwardly extending radially disposed knives interposed between the radially disposed slots, said one element being adapted to rest in a predetermined rotative position with the cylindrical wall of said element spaced from the wall of said cup to permit gravity drainage of juice through the annular space therebetween to said inclined bottom and spout of the cup, the other said element being of hollow cylindrical form permitting telescoping relationship with said one element and having the interior thereof spanned by downwardly depending radially disposed knives interposed between the radially disposed slots, means for attaching said other element to said arm so as to locate the knives and slots thereon in axial alignment with the slots and knives respectively in said one element, and means for reciprocating said arm to move said elements toward and away from each other.

2,588,907
METHOD OF INSTALLING TUBULAR RIVETS
Russell S. Colley, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application December 1, 1949, Serial No. 130,414
2 Claims. (Cl. 218—29)

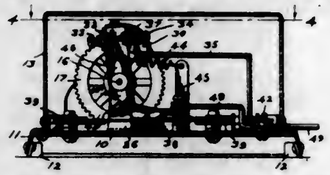


1. The method of attaching in distortion-resisting work a rivet having a shank terminating in a head having an outwardly and upwardly flared underface not conforming to said work and a top face not conforming to a head-contacting surface of a tool so that contact of said top face with the head-contacting surface starts along a peripheral line at the outer margin of the head, with a bore extending through said head into the shank of the rivet to an engaging portion therein and including an expansible shank portion intermediate the engaging portion and the head, which method comprises the steps of inserting the rivet in an aperture in the work with said expansible shank portion projecting beyond the back of the work and with the entire outer margin of the head initially spaced substantially from the front of the work while the material of the head at the innermost part of said underface is initially against the front of the work with the remainder of said underface initially projecting angularly away from the front of the work, applying pulling force to the rivet in the axial direction thereof toward the head by a drawing element of the tool inserted through said head and engaging said engaging portion so as to bulb outwardly said expansible shank portion against the back of the work, and at the same time altering the original shape of the head and conforming said underface of the head to the front of the work by applying a reacting force through the head-contacting surface of the tool to the head initially at said outer margin only and progressively additively inwardly thereof so as to bend and depress said outer margin and flex said remainder of the underface about said innermost part thereof conformingly against the front of the work while continuously pressing said innermost part of said underface against the front of the work and continuing application of the forces until the work is tightly clamped between the head and the bulb.

2,588,908
ELECTRIC TIMING DEVICE
Samuel Guy Crane, Omaha, Nebr., assignor of one-half to Claude H. Reed, Omaha, Nebr.
Application August 31, 1948, Serial No. 47,110
2 Claims. (Cl. 161—1)

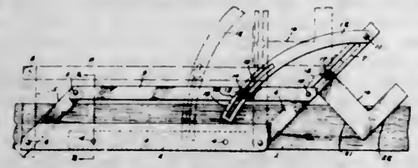
1. In an electric timing device, a rocking lever, a spring attached to one arm of said lever constantly exerting a pull upon said arm in one direction, a thermally expansible and contractible member attached to the other arm of said lever and arranged to exert a pull upon the lever

during its contractive movements opposite to that exerted by said spring, a long circuit which includes said member, a short circuit separate from said member, and means actuated by the rocking movements of said lever for alternately



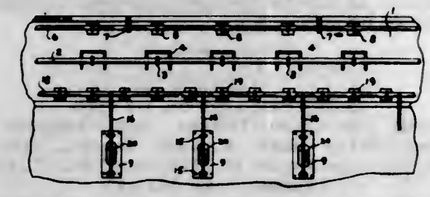
directing the current through said long and short circuits, said means including a pair of spaced abutments carried by the rocking lever and a rocker arm pivoted coaxially with the lever and swung from one abutment to the other during said rocking movements.

2,588,909
RAFTER SQUARE
Roy Cruickshank, West Branch, Mich.
Application February 16, 1951, Serial No. 211,285
2 Claims. (Cl. 33—94)



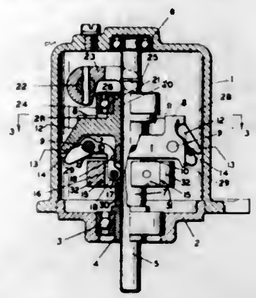
1. A rafter square comprising a base plate adapted for engagement with one edge of a rafter to be marked; a link and adjustment arm parallel to each other and each pivotally connected at one end to opposite ends of the base plate; a connecting arm pivotally connected at one end to the other end of the link, and pivotally connected at its other end to an intermediate portion of the adjustment arm; an arcuate segment pivotally connected at one end to the other end of the adjustment arm, and having a pivotal connection to the connecting arm, said segment being adapted for clamping to the connecting arm in selected positions of adjustment of the segment relative to the connecting arm; and a ruling blade of right angled configuration attached to said adjustment arm.

2,588,910
ANODE SHIFTING DEVICE
John V. Davis, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
Application December 29, 1949, Serial No. 135,813
2 Claims. (Cl. 204—198)



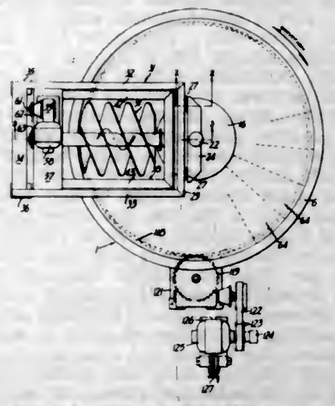
1. In a continuous plating apparatus, a tank, a rail lying over said tank lengthwise thereof, said rail having a plurality of supports for work pieces carried thereby in spaced relationship, an anode rail lying parallel to the first rail also carrying a plurality of anodes spaced in opposing relationship to said work pieces, means for intermittently moving said supports along said first-mentioned rail, and oscillating frame means connected in synchronism with said first mentioned means for intermittently moving said anode rail transversely of said first rail during the dwell in the movement of the work pieces thereon, the oscillation of the anode rail being in an amplitude sufficient to bring said anodes in close proximity to said work pieces.

2,588,911
CENTRIFUGALLY RESPONSIVE GOVERNOR
Louis De Marco, Cleveland, Ohio
Application August 27, 1949, Serial No. 112,700
9 Claims. (Cl. 264—15)



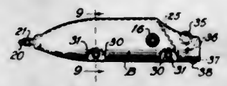
1. In a governor having a rotatable shaft and a bracket mounted thereon to be rotated thereby, a weight arm being suspended solely by a single pivotal connection to said bracket to swing about an axis normal to the axis of rotation of said shaft and a centrifugally responsive weight being suspended solely by a single pivotal connection to said weight arm when said weight is under the influence of centrifugal force so as to adapt said weight to swing about an axis normal to the axis of rotation of said shaft.

2,588,912
CONTINUOUS ROTARY TABLE FILTER PROVIDED WITH MULTIPLE SCROLL DISCHARGER
Harry W. Denhard, Sebastopol, Calif., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application November 10, 1947, Serial No. 785,032
4 Claims. (Cl. 210—202.5)



1. A continuous rotary table filter comprising: an annular pan divided by division strips into a plurality of identical filtrate compartments; a filter medium covering each of said compartments, said pan being provided with inner and outer rims extending substantially above said filter medium; a central upstanding post supported by said pan; an outer horizontally disposed frame supported at its inner end from said post and its outer end by a pedestal; an inner frame adjustably mounted within said outer frame; aligned bearings carried by said inner frame; a scroll discharger journaled in said bearings and receivable within said pan between its outer and inner rims immediately above said filter medium, and a variable speed driving mechanism mounted on said outer rectangular frame for driving said scroll, said scroll having at least three flights each having a pitch equal to the outer diameter of said scroll.

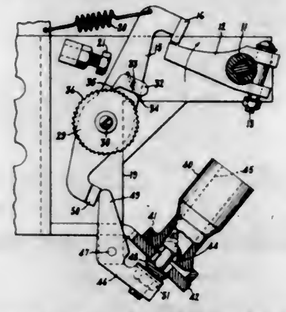
2,588,913
TUBULAR METALLIC BAIT
Clarence L. Dewey, Grand Rapids, Mich.
Application May 15, 1947, Serial No. 748,201
1 Claim. (Cl. 43—42.35)



A fishing lure simulating the appearance of live bait and comprising a substantially cylindrical body of which one end is tapered inwardly and rearwardly and provided beyond the tapered rear end portion with two contiguous flat terminal abutting portions constituting a two-ply tail closing the rear end of the body, the top wall of the body at the front end thereof being provided with a transversely curved inclined portion extending downwardly and forwardly to the inner face of the bottom wall and progressively depressed below the upper edges of the sides of the front portion of the body and closing the front end thereof, the bottom wall of the body and the lower end of said inclined portion being extended forwardly longitudinally of the body at an angle to the inclined end portion beyond the said inclined portion, providing a surface contact between the upper face of the bottom wall of the body portion and the extension of the inclined portion and also providing a front platform housed between the side walls of the body, said body having its side walls over relatively small areas compressed into abutting relation forming side indentations having inwardly extending top and side walls and open at the bottom and provided with registering openings and constituting a two-ply saddle.

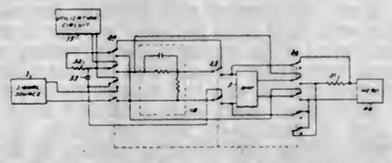
2,588,914
RETARDED RELEASE SHOCK LOCK
Robert W. Dunham, Drexel Hill, Pa., assignor to General Electric Company, a corporation of New York
Application July 14, 1950, Serial No. 173,821
7 Claims. (Cl. 74—527)

7. A shock lock having in combination a movable element, a locking member movable to a locking position in the path of the movable element for preventing movement thereof, means including a fixed hollow cylindrical element for pivotally mounting the locking member for rotation in one direction to the locking position, means biasing the member to rotate in the opposite direction to free the movable element, a one-way operating force transmitting element for moving the locking member only in the one direction, means including an inverted gyrating pendulum weight having substantially universal motion converting operation connections with the operating force transmitting element for effecting movement of the locking member only in said one direction in response to shock in sub-



stantially any direction, and time delay means including a mass of relatively high viscosity material inside the hollow cylindrical element and a rotor immersed in the mass and provided with a one-way slip clutch connection with the lock member for retarding movement thereof only in said opposite direction.

2,588,915
MEANS FOR OBTAINING PREDETERMINED PHASE SHIFT CHARACTERISTICS
Walter H. Erikson, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application December 22, 1949, Serial No. 134,491
6 Claims. (Cl. 179—100.1)

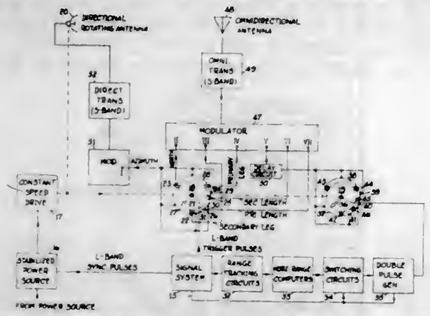


1. Apparatus for compensating undesired phase shift characteristics comprising a recording channel including means for moving a recording medium in a given direction, and a reproducing channel including means for moving said medium in a direction which is the reverse of said given direction, said reproducing channel being subject to phase distortion, and means in said recording channel for substantially compensating for such phase distortion.

2,588,916
NAVIGATIONAL SYSTEM FOR AIRWAYS TRAFFIC CONTROL
Oscar S. Field and John E. Freehafer, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application February 2, 1948, Serial No. 5,766
20 Claims. (Cl. 343—6)

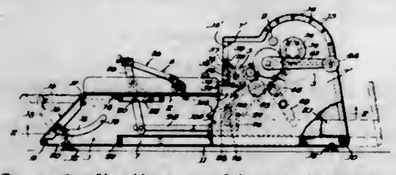
20. Apparatus for indicating at an aircraft its horizontal range from a fixed point when the altitude of the aircraft relative to the fixed point is known at the latter, comprising means at said fixed point for determining the slant range to the aircraft, means for computing therefrom and from the known altitude of the aircraft the horizontal range to the aircraft, means for transmitting a pair of pulses whose separation is proportional to this horizontal range, means at the

aircraft for receiving said pair of pulses, and means at the aircraft for converting the time



interval between said pair of pulses into a range indication.

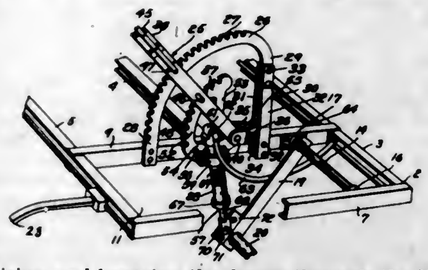
2,588,917
SHEET STOP DEVICE FOR ROTARY DUPLICATING MACHINES
Arthur H. Geib, Milwaukee, Wis.
Application January 11, 1947, Serial No. 721,628
5 Claims. (Cl. 101—132.5)



1. In a duplicating machine, a bed, a rotary master drum in the bed, a horizontal fluid pan supported in the bed forwardly of the master drum, sheet moistening and feeding means cooperable with said fluid pan and master drum, a flat horizontal sheet receiving and feeding shelf supported forwardly of said bed, the moistening and feeding means and the master drum, a flat apron contiguous with and extended from the inner end of said shelf into proximity to said sheet moistening and feeding means in downwardly spaced relation to the bottom of the fluid pan and terminated adjacent the inner and free side thereof forming an inwardly opening way therebetween, a flat sheet-like piece of shape and size substantially corresponding to that of said apron pivotally mounted transversely of and on the bed below and in proximity to the lower side of the apron, the inner end of said piece being flanged upwardly and normally overlappingly engaged with the inner and adjacent side of said apron closing said inwardly opening way between the pan bottom and apron, and means operable by and from the master drum for imparting pivotal movement to said sheet-like piece whereby to open the inwardly opening way at predetermined and recurring intervals.

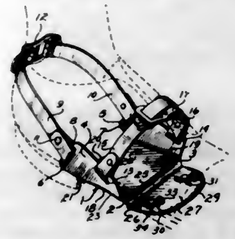
2,588,918
MECHANISM FOR RAISING AND LOWERING PLOW FRAMES RELATIVE TO THE GROUND WHEELS
William T. Graham, Amarillo, Tex.
Application November 7, 1947, Serial No. 784,680
7 Claims. (Cl. 97—50)

1. In a device of the character described, a frame, a ground wheel, means mounting the ground wheel on the frame for raising and lowering of the frame relative to the ground wheel, a fluid pressure actuator forming an adjustable linkage between said ground wheel mounting means and the frame, and manual means for



raising and lowering the frame through the linkage effected by said fluid pressure actuator.

2,588,919
SHOE PROTECTOR
Otto N. Gredell, Kansas City, Mo.
Application September 15, 1949, Serial No. 115,825
5 Claims. (Cl. 36—7.7)

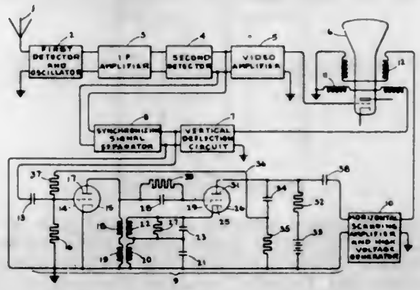


1. A foot support adapted for insertion under the shank area of a shoe said support being formed of sheet metal and having a substantially flat shank engaging portion to extend substantially across the width of the shank area and having a depending transverse flange at one end adapted to engage the breast of the heel of the shoe and having a transverse downwardly directed offset spaced forwardly from said flange to cooperate with said flange and shank engaging portions in forming a downwardly opening transverse channel and providing a guard portion extending smoothly from said offset at the forward end of said support and also adapted to be received in said shank area and having the bottom face thereof substantially in plane with the sole of the shoe, said guard portion having forward and side edges curving upwardly for contact with the shank of the shoe, side wings flaring upwardly from said shank engaging portion, and fastening means having connection with said wings and adapted to extend about the shoe for retaining said support in contact with said shank area and the flange in contact with the breast of the heel.

2,588,920
METHOD OF APPLYING A VITREOUS COATING COMPOSITION TO A GLASS BASE AND ARTICLE RESULTING THEREFROM
Robert L. Green, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application January 29, 1947, Serial No. 725,169
3 Claims. (Cl. 117—65)

1. The method of rendering slightly conductive the surface of a glass article which comprises applying to said article a coating of finely comminuted glass in which is incorporated from 25% to 75% by weight of lead oxide and 25% to 50% by weight of a member selected from the group consisting of antimony oxide and bismuth oxide, and heating said coated article in a reducing atmosphere to a fusion temperature within the range of 308° C. to 395° C. for a period of the order of one-half hour.

2,588,921
OSCILLATOR SYNCHRONIZING SYSTEM
Wolf J. Gruen, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application December 8, 1949, Serial No. 131,850
9 Claims. (Cl. 250—36)



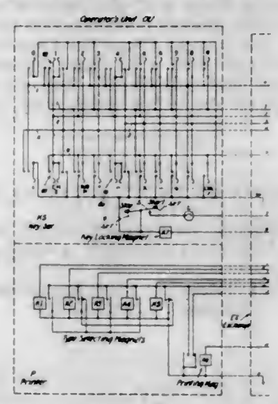
1. An oscillator synchronizing system comprising a source of synchronizing pulses, an oscillator comprising an electron discharge device, a first resonant circuit tuned to the fundamentary frequency of occurrence of said synchronizing pulses, a second resonant circuit tuned to a harmonic of said frequency and means for interconnecting said resonant circuits and said electron discharge device so as to produce sustained oscillations having a composite waveform which is the resultant of said fundamental and harmonic frequencies, and means for injecting said synchronizing pulses into said resonant circuits, thereby to maintain said oscillations substantially in phase with said synchronizing pulses.

2,588,922
METHOD AND MEANS OF IMPROVING COFFEE FLAVOR
Earl P. Haney, Winchester, Mass.
No Drawing. Application April 9, 1951, Serial No. 220,135
4 Claims. (Cl. 99—152)

1. A product comprising substantially in proportion one part asafetida gum resin, four parts powdered edible gelatine, 7000 parts roasted ground coffee thoroughly mixed together.

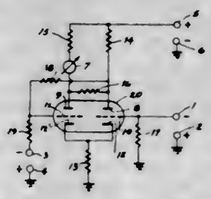
2,588,923
CALCULATOR
William Hatton, South Orange, N. J., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application January 16, 1946, Serial No. 641,436
11 Claims. (Cl. 235—61)

1. In a calculating device, means for accumulating digits including a number of stepping switches, one for each numerical denomination, means including a stepping switch for cyclically scrutinizing said accumulating switches one after the other, digit signifying means under control of said scrutinizing means for signifying digits accumulated on said accumulating switches, and means including another stepping switch adapted to advance in synchronism with said first



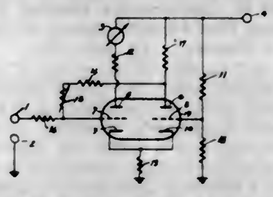
stepping switch for controlling said digit signifying means to punctuate digits at predetermined points in the cycle of a scrutinizing operation.

2,588,924
ELECTRONIC TRIGGER CIRCUIT
Maynard L. Hecht, Jackson Heights, N. Y.
Application May 26, 1950, Serial No. 164,449
5 Claims. (Cl. 250—27)



1. In an electronic trigger circuit consisting of a two-stage direct current amplifier, each stage having an electron tube with a cathode, an anode, and a control electrode, a resistance coupling between the anode of the first stage and the control electrode of the second stage, a cathode resistance common to said stages, and a resistance connected between said anodes, the value of said last-mentioned resistance being so chosen as to substantially reduce the back-lash voltage which would occur in the absence of said last mentioned resistor.

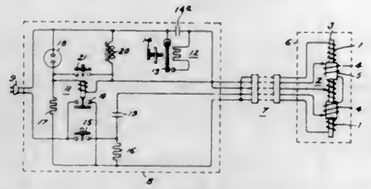
2,588,925
ELECTRONIC TRIGGER CIRCUIT
Maynard L. Hecht, Jackson Heights, N. Y.
Application May 26, 1950, Serial No. 164,450
5 Claims. (Cl. 250—27)



1. An electronic trigger circuit comprising a first stage having an input grid, a cathode and

an anode, a second stage having a grid, a cathode and an anode, a common cathode resistor coupling the cathodes of the two stages and forming the sole coupling between the output of the first stage and the input of the second stage, resistance means connected to the grid and cathode of the second stage for determining the bias potential of said grid, and a positive feedback voltage line connecting the anode of the second stage to the input grid of the first stage.

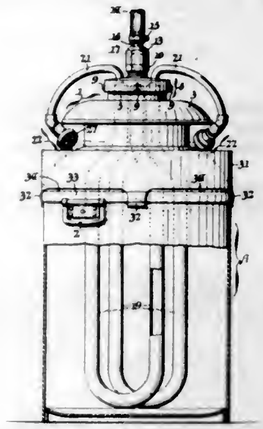
2,588,926
TEMPERATURE RESPONSIVE CONTROL CIRCUIT
Robert G. Holmes, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application February 1, 1951, Serial No. 208,965
3 Claims. (Cl. 219—20)



1. In a control circuit including a control impedance comprising a heater resistor and a signal wire having between them a thin layer of material which is substantially an insulator at one temperature and at a predetermined higher temperature a conductor of electricity of conventional domestic voltage and frequency which forms a current path between said resistor and said signal wire, a pair of supply terminals, an impedance bridge connected across said terminals, two legs of said bridge collectively comprising a resistor and a neon glow lamp serially connected and the other two legs collectively comprising in serial relationship reactance means, said signal wire and a capacitor, a control relay having an operating coil and contacts biased to the open position, means connecting said operating coil across opposite terminals of said impedance bridge to derive voltage therefrom to operate said contacts to the closed position, and means including said contacts and for providing a circuit connecting said resistor across said supply terminals in parallel to said bridge circuit, whereby the current path formed through said thin layer of material between said signal wire and said heater resistor upon the attainment of conducting status of said layer completes parallel circuits about two legs of said impedance bridge effective to reduce the magnitude of energization of said operating coil to allow said contacts to return to said open position.

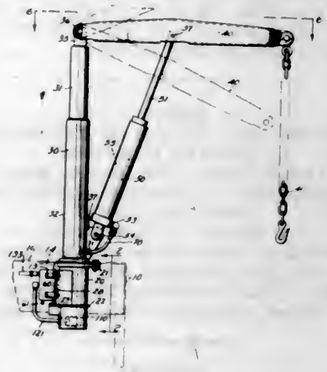
2,588,927
MILK CAN COOLER
Harold W. Houseweart, Benton, Pa.
Application May 11, 1949, Serial No. 92,723
3 Claims. (Cl. 257—74)

1. A milk can cooler in the form of a unitary attachment constructed for ready insertion into and withdrawal from a standard milk can, comprising a fixed supporting element in the form of a standard cap for a milk can provided with an opening, a cooling head rotatably mounted in said opening, a cooling tube fixed to said cooling head and extending into the body of the can for rotary stirring motion therein, an outlet conduit for the coolant from said cooling tube, an inlet conduit for fluid coolant under pressure, and an angled walled passage enclosed in said cooling head directly connecting said inlet conduit to said cooling tube, said angled walled passage being disposed at an angle to the path of flow



of the incoming coolant and to the axis of rotation of the cooling head whereby the incoming coolant is directed against said wall creating an impulse and thereby rotating the angled passage, cooling head and attached cooling tube to concurrently stir and cool the liquid in the can.

2,588,928
JIB CRANE
Eugene G. Humpal and Roy O. Balogh, Cleveland, Ohio, assignors, by mesne assignments, to McCabe-Powers Auto Body Co., St. Louis, Mo., a corporation of Missouri
Application May 19, 1949, Serial No. 94,144
2 Claims. (Cl. 212—35)



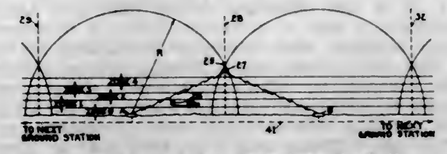
1. In a jib crane, the combination of a stationary upright tubular support, a tubular post rotatably mounted in the support, a boom pivoted to the upper end of the post, a cylinder pivoted to a lower portion of the post, a piston in the cylinder having a rod pivoted to the boom, said post having a hollow cylinder extension provided across its bottom end with a transverse wall, a rod-like extension projecting co-axially downwardly from the transverse wall and being provided on its peripheral face adjacent its lower end with an annular groove, said rod-like extension further being provided internally with a closed-bottomed axial bore provided adjacent its lower end with a radial orifice communicating with the annular groove, a conduit connecting the cylinder with the axial bore of the rod-like extension, a ring surrounding the rod-like extension having a peripheral groove on its interior face, said groove matching with and opening into the annular groove, a supply conduit connected to the ring and communicating with the peripheral groove thereof, a worm wheel mounted on the downward extension of the post, and a worm meshing with the worm wheel for turning the post.

2,588,929
MAGAZINE FOR STAPLING TOOLS
Robin A. Jacobus, Glendora, Calif.
Application May 3, 1949, Serial No. 91,101
5 Claims. (Cl. 1—49)



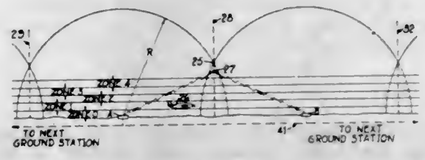
1. In a stapling tool, a staple magazine therefor, said magazine including a staple carrier bar formed as an integral element of the body of the tool, a staple pusher saddled upon the carrier bar and adapted for slidable movement longitudinally thereon, a collar secured upon the free end of said carrier bar, and a spring based upon said collar urging said staple pusher inwardly along the bar, a slotted tubular magazine cover centered upon said bar enclosing and in sliding surface contact with said collar and staple pusher, a lip upon the magazine cover adapted and arranged to engage and retract said staple pusher upon said bar against said spring upon longitudinal movement of the tubular cover so as to provide unrestricted access to the carrier bar for ready placement of staples thereon, and a bayonet coupling adapted to hold said tubular cover in its extreme outer and inner positions with respect to said collar.

2,588,930
AIRWAY TRAFFIC CONTROL SYSTEM
Hugh C. Kendall, Rochester, and Lionel H. Orpin, Greece, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application April 22, 1947, Serial No. 743,046
75 Claims. (Cl. 343—6)



1. In apparatus of the class described, the combination of a fixed transmitter adapted to transmit a plurality of radio pulses, an automatic output control and timer therefor which controls said transmitter to produce a distinctive synch pulse followed by a plurality of information pulses differing from said synch pulse and at predetermined time intervals, an airborne receiver, a control therefor comprising a timer, responsive to said synch pulse and whose timing function is initiated thereby, which controls the output of said receiver to render it effective only for a predetermined period of time selected from the period of time following said synch pulse and coextensive with the period of time of transmission of one but not all of said information pulses, and an altitude-sensitive device connected to said last-mentioned timer to control the timing of the beginning of said predetermined period of time selected by said last-mentioned timer after said synch pulse.

2,588,931
AIRWAY TRAFFIC CONTROL SYSTEM
Hugh C. Kendall, Rochester, and Lionel H. Orpin, Greece, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application April 30, 1949, Serial No. 90,742
31 Claims. (Cl. 343—6)

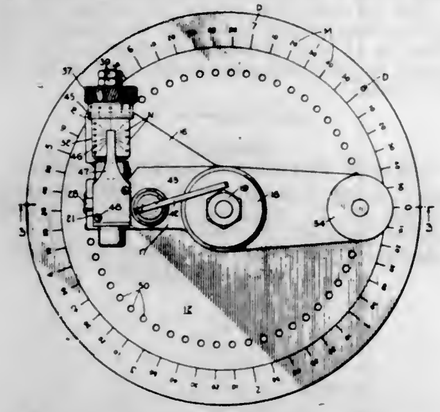


1. An airway traffic control system comprising the combination of a master timer, a plurality of fixed transmitters adapted to transmit a plurality of radio pulses, a corresponding plurality of automatic output control circuits and timers thereto, each under the control of said master timer and connected to and controlling the corresponding transmitter to produce a distinctive synch pulse followed by a plurality of information pulses differing from said synch pulse and in succession, each at a predetermined time interval after the preceding pulse, said fixed transmitters and automatic output control circuits and timers therefor being arranged to define a continuous air lane where each of said transmitters is spaced from the next adjacent transmitter a distance not greater than their combined ranges, whereby each transmitter constitutes a block, and adjacent fixed transmitters including pulse-forming circuits to transmit synch pulses of different character but alternate fixed transmitters transmitting synch pulses of the same character, and a delay circuit for one fixed transmitter and each alternate fixed transmitter spaced therefrom along the air lane and connected between the automatic output control circuit thereof and the fixed transmitter and timed to delay the transmission of the first of the information pulses transmitted by said one and alternate fixed transmitters following each synch pulse transmitted thereby by an additional predetermined time after that preceding synch pulse, each of the successive information pulses transmitted by said one and alternate fixed transmitters preceding the next synch pulse transmitted thereby being delayed after the preceding information pulse only by said first-mentioned predetermined time interval.

2,588,932
POSITIONING MECHANISM
Winfield S. Klingenberg, Stamford, Conn.
Application December 16, 1949, Serial No. 133,434
3 Claims. (Cl. 33—1)

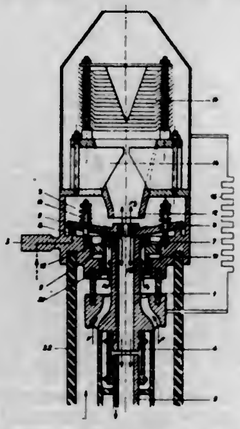
1. In a combination of the class described, a positioning shaft, a bearing member for said shaft including a dial relatively to which said positioning shaft is rotated, an adjusting member rotat-

able in the axis of said shaft and relatively to said shaft, an operating element secured to said shaft for rotating said shaft and underlying said adjusting member, a screw threaded shaft rotatably mounted in said overlying adjusting mem-



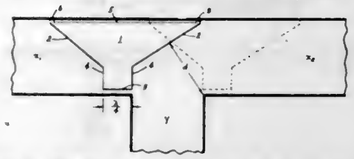
ber, a block projecting upwardly from said underlying operating element and having a screw threaded bore within which is threadedly mounted said screw threaded shaft, and means for fixing said adjusting member relatively to said dial and bearing member.

2,588,933
SWITCH WITH PRESSURE FLUID ARC EXTINGUISHING
André Latour, Grenoble, France
Application November 27, 1946, Serial No. 712,478
In France December 3, 1945
10 Claims. (Cl. 200—148)



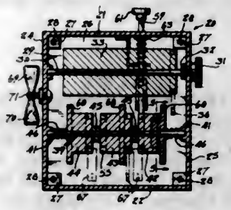
1. A circuit breaker of the fluid blast type comprising in combination, a stationary contact member; a substantially flat movable contact member; means for resiliently pressing in circuit-closing position said movable contact member with one of its flat faces against said stationary contact member; a stationary part arranged with respect to said substantially flat movable contact member so as to form a stop limiting the opening movement of said movable contact member; said stationary part, said stationary contact member and said movable contact member being shaped so as to provide in any position of said movable contact member a passageway for the escape of the products of arcing; a piston actuated by fluid pressure for causing separation of said movable contact member from said stationary contact member and for pressing said movable contact member in circuit-opening position against said stationary part; and means for causing an arc-extinguishing blast between said contact members.

2,588,934
WAVE GUIDE SWITCH
Charles W. Miller, Sale, England, assignor to General Electric Company, a corporation of New York
Application January 7, 1948, Serial No. 965
In Great Britain August 21, 1946
6 Claims. (Cl. 178—44)



1. In a wave guide structure, a main arm, a pair of branch cross arms, a metallic electromagnetic wave deflecting member slidable along said branch cross arms between alternate operative positions in each of which said deflecting member blocks electromagnetic wave transmission through one of said cross arms and provides electromagnetic wave communication between the other arm and said main arm, said deflecting member being formed with deflecting surfaces, one of which in each of said operative positions lies across the outer corner of the angle passage between said interconnected arms.

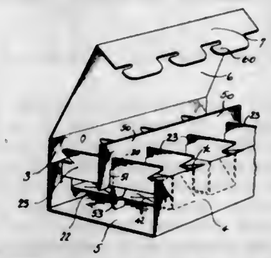
2,588,935
TELEPHONE CALL COUNTING DEVICE
Edward Oran, Astoria, N. Y.
Application August 6, 1949, Serial No. 108,889
3 Claims. (Cl. 235—117)



1. In a call counting device having a casing enclosing a pair of adjacent shafts, a numbered drum slidably and rotatively positioned on one of the shafts, said drum having circumferential gear teeth at one of its ends, a gear slidably and rotatively positioned on the other of said shafts and meshing with said gear teeth to advance said drum one number each time said gear is turned a part of a revolution, a manually depressible plunger supported by the casing in a position over one of the teeth of said gear for turning said gear a part of a revolution each time said plunger is depressed, a stop collar mounted on the said one shaft at one side of said drum, means interconnecting said drum and said gear to slide as a unit on their respective shafts while leaving them free for rotation in opposite directions, resilient means urging said drum against said stop collar

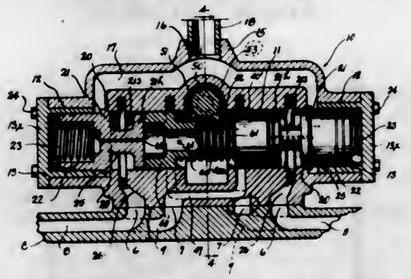
to maintain said gear in position beneath said plunger to be rotated thereby when depressed and means for shifting said drum away from said collar against the action of said resilient means to in turn move said gear from beneath said plunger to free said drum and said gear to be turned manually in one direction or the other independently of said plunger.

2,588,936
EGG CARTON
Joseph A. O'Reilly, Bellingham, Wash.
Application December 6, 1949, Serial No. 131,345
6 Claims. (Cl. 229—29)



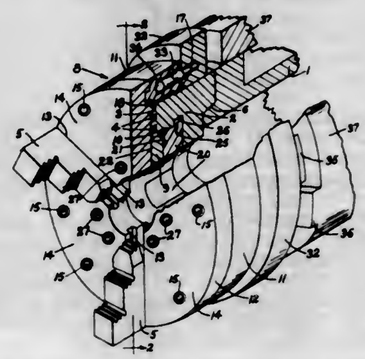
1. A cellular carton comprising a blank that is scored and folded to form a back wall, a front wall, a bottom and a horizontal top panel; the panel being divided into a succession of transverse strips; alternate strips being vertically turned to form partitions that define a succession of cell spaces along the carton, and the other strips being offset downwardly from the plane of the panel to provide bottoms for the said cell spaces; said latter strips being supported spaced from the carton bottom.

2,588,937
POPPET VALVE
Henry W. Ringman, Everett, Wash.
Application July 25, 1950, Serial No. 175,711
2 Claims. (Cl. 121—46.5)



1. A control valve for a double acting cylinder having an inlet and an exhaust port for each of its opposite ends: said valve comprising a housing formed with a longitudinal bore, provided near its opposite ends with outwardly facing valve seats, and having supply passages therein for delivering a pressure medium to the bore at the outsides of the seats, and there being inlet passages leading from the bore at the inside of the seats, respectively, to serve the inlet ports at opposite ends of the cylinder, respectively, an exhaust chamber in said housing open to the medial portion of the bore and exhaust passage to serve the exhaust ports at opposite ends of said cylinder and opening into the said exhaust chamber, a poppet valve slidably fitted in each of the opposite end portions of the bore, means closing the outer ends of the housing bore, springs mounted by said means and acting against said valves to urge them to closing positions, each poppet valve comprising a head portion for closing against the seat and a body portion closing off the bore between the inlet passage leading from that end and the exhaust passage that serves the opposite end of the cylinder, a valve actuating slide fitted in the bore between the valves, and formed with rack teeth, a gear in the housing in operative mesh with said teeth and an operating shaft for the said slide comprising piston-like opposite end portions normally overlying the outlets of the exhaust passages and adapted to selectively uncover said passages with the shifting of the slide for the selective opening of the poppet valves.

2,588,938
POWER ACTUATED SCROLL CHUCK
George V. Rogers, Colchester, Salem, Conn.
Application July 1, 1949, Serial No. 102,461
6 Claims. (Cl. 279—114)



3. A power-operated scroll chuck comprising a scroll member provided with a scroll thread, means for mounting said scroll member on a live machine spindle element with a precision interlocking fit, a chuck body mounted on and supported by the scroll member and capable of rotative movement relative thereto, said chuck body having radial jaw-guiding grooves, jaws operating in said grooves and having teeth that are engaged by the scroll thread, said chuck body also having a locking lug, a stationary member having a cooperating lug, means to move said lugs relative to each other in an axial direction to bring the lug on the stationary member into and out of the path of rotative movement of the lug on the chuck body, whereby when the lug on the stationary member is in the path of rotative movement of the lug on the chuck body, said chuck body is locked from turning movement and the chuck jaws may be moved into and out of work-gripping position by rotating the spindle and the scroll.

2,588,939
SAFETY-LOCKED FOLDING SHEARS
Edwin P. Selander, Perkins, Mich.
Application February 8, 1950, Serial No. 143,067
2 Claims. (Cl. 30—255)

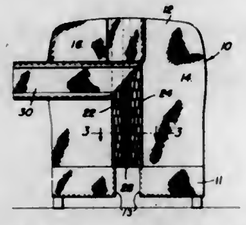
1. In a safety-locked folding shears, the combination of a pair of eyes, each eye provided with a set of lips, one of said lips in each set being provided with a recess on its inner face, a pair of blades having shanks movable into

and out of said eyes, each blade provided with a tongue, and each tongue having at its outer end an offset portion adapted to snap into said



recess, whereby the blades are retained in a closed or folded position against accidental displacement.

2,588,940
FURNITURE COVER
Sam M. Siosberg and Harold Beeten, Allentown, and Edward Frank, Bethlehem, Pa.
Application October 20, 1949, Serial No. 122,544
1 Claim. (Cl. 155—182)



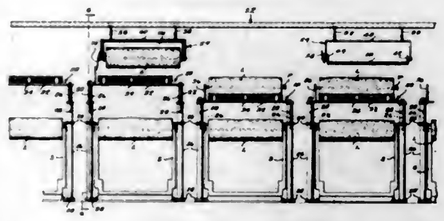
A furniture slip cover of flexible substantially inelastic material comprising a centrally split back panel including a pair of duplicate sections having spaced, parallel vertical edges, elastic webs stitched to said vertical edges, a slide fastener detachably connecting said webs for yieldingly connecting the sections, said cover including a split bottom band comprising spaced ends adjacent said vertical edges, and an elongated, flexible flap suspended from an upper portion of the slip cover for concealing the webs, the fastener and the spaced ends of said bottom band.

2,588,941
MODEL GLIDER
Edward Adolph Stark, San Francisco, Calif.
Application September 15, 1947, Serial No. 774,165
2 Claims. (Cl. 46—81)



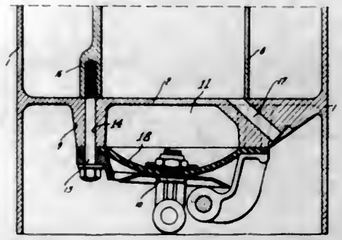
1. A model airplane of glider type designed for catapult or tow launching, comprising a fuselage having a vertical slot through its tail portion and equipped with wings set for normal gliding flight, a rudder fin set vertically in the said tail slot of the fuselage, a pivot shaft extended transversely through the fuselage and rudder fin and mounting the latter for pivotal action on the fuselage, elevator fins fixed rigidly to the rudder fin above the pivot shaft and extended to opposite sides thereof, said rudder fin having limited angular adjustment in said slot for turning the plane in opposite directions, and a rubber band, means connecting the band under tension to the forward edge of the rudder and to the fuselage to yieldingly maintain the elevators at a set position for normal gliding action, said means being adjustable laterally of the longitudinal line of the fuselage to provide for changing the angular setting of the rudder relative to the fuselage.

2,588,942
CONVEYER SYSTEM FOR HANDLING PICKER LAPS
Conway L. Still, Chester, S. C., assignor to The Springs Cotton Mills, Inc., a corporation of South Carolina
Application December 21, 1949, Serial No. 134,219
6 Claims. (Cl. 214—60)



1. A picker lap conveyor system for maintaining a supply of picker laps at a battery of cards, comprising a receiving rack arranged adjacent the lap stand of each card in said battery, an overhead conveyor means spaced above said receiving racks, and at least one picker lap carrying frame disposed for travel on said overhead conveyor means, said receiving racks comprising a cradle, yieldable supporting means for said cradle, and a trip arm associated with said cradle, said yieldable supporting means normally positioning said cradle at a raised position with said trip arm disposed for actuating said carrying frame to transfer a picker lap to said cradle, but allowing shifting of said cradle to a depressed position under the load of a picker lap whereby said trip arm is displaced from the path of said carrying frame as long as said cradle is loaded with a picker lap.

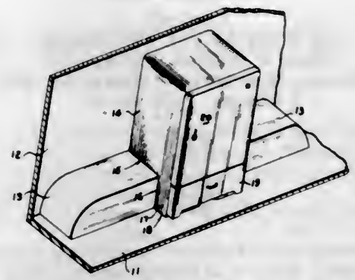
2,588,943
FARM SPRAYER
Claude Tavernon, Villefranche-sur-Saone, France
Application October 23, 1946, Serial No. 705,169
In France April 18, 1945
6 Claims. (Cl. 299—97)



1. In a farm sprayer including a hollow body including a side wall and a bottom, and adapted to contain the liquid to be sprayed, a hood located within said body and removably secured to the bottom thereof, and pumping means externally secured to said bottom, said body and its bottom forming a one-piece moulded unit made of plastic, open at its end remote from said bottom over substantially the whole cross-section of the body, said hood being made of plastic and wholly contained within said body, securing means extending from the exterior through said bottom and engaging hood parts inside the body to removably and fluid tightly apply and clamp said hood onto the inner face of said bottom, and a

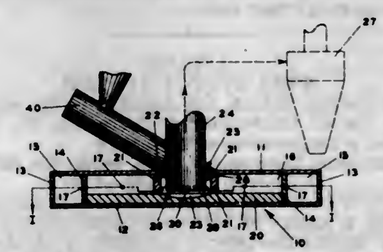
cover also made of plastic removably secured to said open end to close the latter and allow said hood to be removed therethrough once said securing means is released and the cover taken off.

2,588,944
REFRIGERATOR CONSTRUCTION
Roy E. Travis, Dearborn, Mich.
Application November 12, 1949, Serial No. 126,846
2 Claims. (Cl. 62—117)



1. In combination, a raised wheel enclosure of general rectangular cross-section projecting into the interior of a house trailer and extending longitudinally thereof, a refrigerator cabinet mounted upon said enclosure and consisting of a hollow storage housing of general rectangular cross-section throughout its width, a second forwardly arranged housing of general rectangular cross-section depending downwardly from the forward portion of said storage housing throughout its width to define a clearance space of rectangular cross-section throughout the width of said cabinet below said storage housing extending to the bottom of said second housing and behind said second housing extending to the rear of said storage housing to cooperatively receive said wheel enclosure, a refrigerating mechanism within said second housing, and a front panel on said second housing, the lower portion thereof being upwardly cut-away defining an air opening to the interior of said second housing.

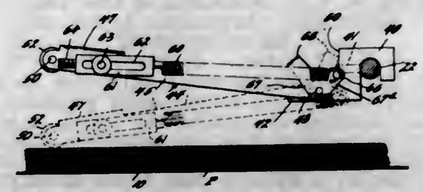
2,588,945
MEANS INHIBITING ESCAPE OF OVERSIZE PARTICLES FROM CIRCULATORY PULVERIZING MILLS
Conrad Trost, Moorestown, N. J., assignor to The Micronizer Company, New York, N. Y., a corporation of Delaware
Application June 29, 1948, Serial No. 35,946
8 Claims. (Cl. 241—39)



1. In a pulverizing mill having an axially short, substantially cylindrical grinding chamber wherein the material to be ground is fed directly

thereinto, grinding fluid is injected thereinto under pressure near the periphery thereof and said fluid and pulverized material are exhausted at the center thereof and said mill includes a top plate and a bed plate defining respectively opposing ends of the grinding chamber, the improvement comprising: an offtake conduit extending through said top plate concentric with said grinding chamber; a guard ring, concentric with said offtake conduit, spaced radially outward therefrom and partially telescoping same, affixed to the bed plate, said ring having a plurality of openings therethrough, which openings are substantially tangentially arranged with respect to the inner wall of said guard ring and extending from the point of tangency in the same direction of rotation as the direction of circulation of grinding fluid, said openings being located closely adjacent the bed plate; said bed plate being imperforate in the area of said guard ring; the surface of said bed plate within the area circumscribed by said ring defining a depression; the upper extremity of said guard ring being spaced from the top plate, and the bottom extremity of said offtake conduit being spaced from the bed plate, said spacing being such that the cylindrical area between the guard ring and the top plate is not less than the cylindrical area between the offtake conduit and the bed plate and both areas are of magnitudes substantially equal to the cross-sectional, interior area of said offtake.

2,588,946
RECIPROCATORY SHEET FEED DEVICE FOR COLLATORS
Lester M. Walden, Cranford, N. J., and Nils G. Hernblad, Long Island City, N. Y., assignors, by mesne assignments, to Frederick C. Came, Savannah, Ga.
Application February 19, 1947, Serial No. 729,566
10 Claims. (Cl. 271—42)



1. Sheet feeding mechanism of the pusher type comprising, in combination, a support for a pile of sheets, an element adapted to frictionally engage the top sheet of the pile, a base spaced from said element, means for reciprocating said base along a predetermined path of travel which is generally parallel to the top sheet of the pile, an elongated member pivotally mounted on the base for rocking movement about an axis, the friction element being attached to the free end of said member, and mechanism associated with the base and member for maintaining said member either in operative position with said element in engagement with the top sheet of a pile on said support, or in inoperative position with said element in spaced relation to such pile, said mechanism including a spring one end of which is connected to said member at a point remote from the axis about which said member may rock relatively to the base, and an anchor for the other end of the spring, said anchor being movably supported on the base so that the line of action of the spring may be shifted from one side of said axis to the other.

2,588,947
DELAYED-ACTION COAGULANT AND METHOD OF COAGULATING ACID-COAGULABLE LATEX
Jerome C. Westfahl, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application April 2, 1947, Serial No. 738,944
21 Claims. (Cl. 260—821)

1. A delayed action coagulant for an acid-coagulable aqueous dispersion of a rubber material which comprises hydrogen peroxide and the addition product of an alkyl aldehyde and an alkali metal bisulfite in which said aldehyde contains less than six carbon atoms in the alkyl group, the weight of said peroxide being from one-fourth to three times the weight of said addition product.

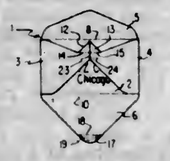
2,588,948
DELAYED ACTION COAGULANT AND METHOD OF COAGULATING ACID-COAGULABLE LATEX
Jerome C. Westfahl, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application April 2, 1947, Serial No. 738,945
16 Claims. (Cl. 260—821)

2. A delayed action coagulant composition for an acid-coagulable rubber latex comprising a water-soluble dialkyl-diketone and hydrogen peroxide in an amount of from ¼ to 3 times the weight of said diketone.

2,588,949
DELAYED ACTION COAGULANT AND METHOD OF COAGULATION
Jerome C. Westfahl, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application April 2, 1947, Serial No. 738,946
17 Claims. (Cl. 260—821)

1. The composition which comprises an acid-coagulable aqueous dispersion of polymeric organic material in combination with a halogenated hydrocarbon free from ethylenic unsaturation containing a maximum of 19 carbon atoms and having a halogen atom joined directly to a tertiary carbon atom, said halogenated hydrocarbon amounting to from 3% to 20% of the weight of said polymeric organic material.

2,588,950
RETURN ENVELOPE
Willard Woolsey, Chicago, Ill.
Application July 12, 1947, Serial No. 760,671
3 Claims. (Cl. 229—73)



1. Means for forming a mailing envelope comprising a single sheet including a rectangular portion having transverse end flaps and first and second longitudinal side flaps extending from the respective transverse ends and longitudinal sides of the rectangular portion, the respective flaps being foldable to alternate positions overlying the opposite faces of the rectangular portion, the transverse flaps having integrally formed tabs adjacent one another and adjacent the longitudinal edge of the first longitudinal side flap when the transverse flaps are in folded position, the second longitudinal side flap having a part which in the flap folded position overlies the tabs, weakened lines of severance between said part and the rest of the sheet and also between said tabs and the rest of the sheet, said weakened lines of severance being superposed when the flaps are in their folded positions.

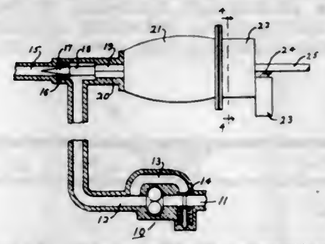
2,588,951
LICENSE PLATE FASTENER
Edgar P. Anstett, Chicago, Ill.
Application May 28, 1945, Serial No. 596,277
2 Claims. (Cl. 85—5)



2. A license plate fastener comprising a stamped sheet metal key, a stamped sheet metal connector plate and a helical spring, said key having a shank portion terminating at one end in a head which is adapted to be inserted through a bolt hole in an automobile license plate, said head being of a length in excess of the diameter of the bolt hole through which it is to be inserted and of a width less than such diameter, said connector plate having a slot therethrough through which said head extends, the slot being of a width less than that of the shank so that when the shank extends through the slot a turning of the shank will result in turning of the connector plate, said connector plate having rearwardly extending projecting means adapted to enter a fastening slot in an automobile license plate holding bracket and fit therein to hold the connector plate and the key against turning, the head of the key being of a length substantially less than the length of the slot in the bracket and more than the width thereof, the key head being insertable into and through the bracket slot while the rearwardly extending projecting means on the connector plate is out of alignment with the slot in the bracket and upon turning of the shank the key head is moved out of alignment with the bracket slot to a position across the bracket slot and the projecting means on the connector plate is brought into alignment with and enters the bracket slot, whereupon the connector plate is held against further turning and holds the key against turning, the shank having another head at the opposite end thereof, and the spring surrounding the shank and bearing against said other head.

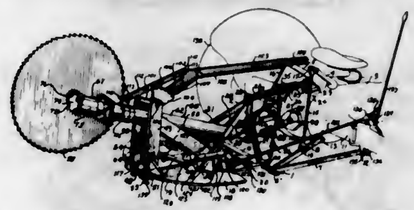
2,588,952
FUEL SUPPLY SYSTEM
John Carroll Baisch, Los Angeles, Calif., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application December 7, 1945, Serial No. 633,441
3 Claims. (Cl. 123—119)

1. In a fuel system for an internal combustion engine, a source of fuel under substantially constant superatmospheric pressure, a device actuable according to engine speed, variable metering means controlling the delivery of fuel from said source to the engine, an epicyclic gear train transmission between said device and said metering means, and means responsive to engine charging pressure and temperature for braking said gear train to vary the speed ratio of said trans-



mission and, consequently, the operative response of said metering means relative to engine speed.

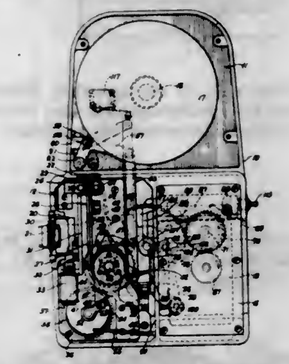
2,588,953
SAW ATTACHMENT FOR TRACTORS
Evan J. Bausch and Walter W. Mulanax, Hoyt, Kans., assignors to B-M-B Company, Inc., Holton, Kans., a corporation
Application September 16, 1948, Serial No. 49,478
7 Claims. (Cl. 143—43)



6. In combination with a tractor having hydraulic lift apparatus and including a rearwardly extending power take-off shaft, a power attachment comprising, a frame pivotally mounted on the rear of the tractor and to the hydraulic lift apparatus for vertical swinging movement, said frame including a cross bar on its rear end, a platform rigidly secured to said cross bar, said platform having a rounded rear edge, a guide frame pivotally mounted on said platform for lateral movement on its rear end with respect to said platform, said guide frame including spaced uprights, a shaft housing having its forward end pivotally mounted on the forward portion of said platform and its rear end extending between said uprights for vertical movement therebetween, a rotary saw mounted on the rear end of said shaft housing, means operatively connecting said saw to the power take-off shaft of the tractor, a lever pivotally mounted to the housing of the tractor having a rearwardly extending rod, a bracket pivotally mounted on said platform having one arm pivotally mounted to said rod, a link having one end pivotally connected to the other arm of said bracket, and the other end of said link pivotally connected to said platform frame whereby operation of the lever will feed the saw to and from the work when the saw is in horizontal position.

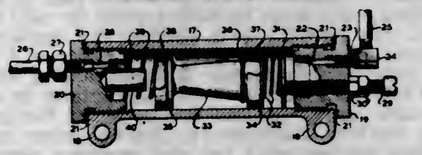
2,588,954
AUTOMATIC PHOTOGRAPHIC CAMERA
William Bornemann, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 17, 1949, Serial No. 76,905
10 Claims. (Cl. 95—34)

1. In a photographic apparatus, the combination with a casing having a chamber adapted to receive a magazine and having a drive member adapted to engage the take-up of said magazine, of a locking means for holding a magazine in said chamber, a magazine ejecting means movable to a retracted position, by insertion of a magazine into said chamber, and maintained in said position by the engagement of said magazine with said locking means, a winding assembly



operatively connected to said drive member and operable at any time for moving the sensitized material into said magazine, and an actuating means operatively connected to said winding assembly and movable therewith to a position for releasing said locking means to permit said ejecting means to eject said magazine from said chamber.

2,588,955
HYDRAULIC BRAKE ADJUSTER
Wiley W. Brannen, Statesboro, Ga., assignor of one-half to Alfred A. Dorman, Statesboro, Ga.
Application May 13, 1947, Serial No. 747,859
7 Claims. (Cl. 60—54.5)

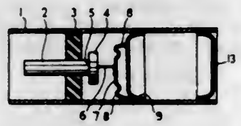


4. A hydraulic brake adjuster comprising a cylinder having an inlet at one end and an outlet at the other end, a piston mounted for reciprocation within said cylinder, means on said piston permitting fluid to flow from the inlet side thereof to the outlet side and preventing fluid from flowing from the outlet side to the inlet side of said piston, spring means extending between said piston and the outlet end of said cylinder for urging said piston away from said outlet end of said cylinder, and adjusting means reacting against said piston for determining the normal adjusted position of said piston.

2,588,956
CRYSTAL RECTIFIER
Francis Hugh Brittain and Emrys Gwynne James, Pinner, England, assignors to The General Electric Company, Limited, London, England
Application February 23, 1949, Serial No. 77,764
In Great Britain July 31, 1946
7 Claims. (Cl. 175—366)

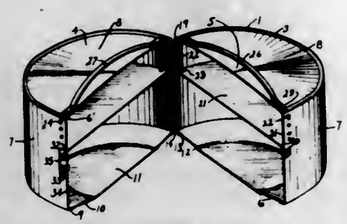
1. A crystal rectifier comprising within a capsule a semi-conducting crystal and a metal whisker, supported from the capsule so that the tip of the whisker is resiliently pressed against a

surface of the crystal, wherein the metal whisker consists of a short spike and projects from the vertex of a resilient metal tripod structure of low inductance, the ends of the tripod legs being fixed



relative to the wall of the capsule which tripod structure provides substantially the whole of the required resilience between the whisker and the crystal.

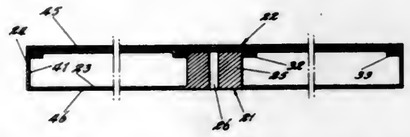
2,588,957
PASTRY BOX
Harry W. Brown, Kansas City, Mo.
Application March 30, 1948, Serial No. 17,871
1 Claim. (Cl. 312—200)



A portable pastry container made from substantially light weight sheet metal or the like comprising, two mating sections having semi-circular side walls and having their upper and lower edges turned inwardly forming flanges, said sections having oppositely facing open faces hingedly connected together at one edge of said sections, said hinge forming a pivot for said sections for opening and closing the container, shelves secured in the respective sections, a top for each section having straight mating edges and their side edges rounded to conform to said sections rigidly secured to the upper flange of said sections, a bottom for said container comprising semi-circular flat ring members secured to the lower flanges of said sections, said ring members being set at an angle downwardly from the edges of said sections, semi-circular plates welded to the inner edges of said ring members, said weld being of substantially greater thickness than said plates and ring members for re-inforcing said bottom, said plates forming a substantially flat bottom for said container, handles for said sections, each end of said handles being secured to said inturned flanges and said top portions adjacent the mating edges of said sections, and means on the edges of said sections opposite the hinge portions for locking said sections together.

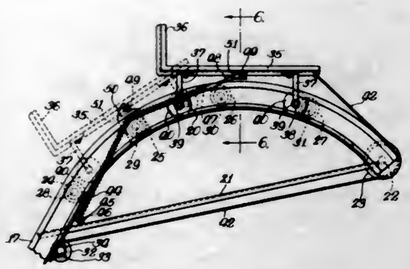
2,588,958
SINGING-TALKING BANK
John Joseph Byrne, New York, N. Y.
Application June 1, 1949, Serial No. 96,603
2 Claims. (Cl. 274—42)

1. A savings bank comprising a housing having a plane circular bottom wall bearing a phonograph recording impressed therein, a short cylindrical side wall having a peripheral coin entrance slot and an inner post having a bore to receive a phonograph spindle, said side wall having a plurality of arcuately extending inwardly protruding lips and said post having corresponding outwardly protruding lips, and a cover similarly bearing a phonograph recording thereon and carrying corresponding outwardly extending lips at its outer periphery and inwardly extending



lips near its center, said cover lips being adapted to pass between and below said housing lips, whereby upon rotation of said cover relative to said housing said lips engage to return said cover on said housing.

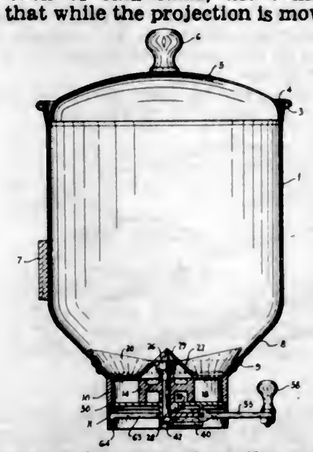
2,588,959
EXTENSION LADDER AND HOIST THEREFOR
Harry L. Campbell, Wilmette, Ill.
Application January 18, 1947, Serial No. 722,947
2 Claims. (Cl. 214—100)



1. An extension ladder comprising a main section having side rails and spaced apart rungs, an extension section having side rails telescopically mounted in the side rails of said main section, spaced apart rungs carried by said extension section, a curved extension formed integrally with said extension section, an elevating platform mounted on said ladder, an extension spring having one end attached at a point adjacent said curved extension, a transverse rod connected to the other end of said spring, hooks carried by said extension for supporting said rod in one position, and hooks carried by said platform for engaging the opposite ends of said rod as the platform moves upwardly over said curved extension.

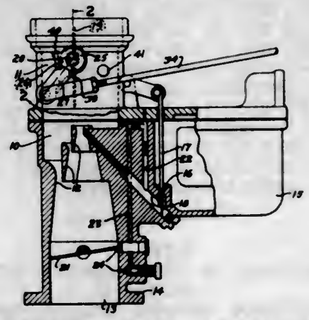
2,588,960
COFFEE DISPENSER
Jackson L. Campbell, Cleveland, Ohio
Application November 22, 1948, Serial No. 61,397
5 Claims. (Cl. 222—185)

1. A metering and discharging mechanism comprising a container having a bottom wall, a downwardly extending measuring chamber having a discharge opening and supported by the wall, an oscillating closure above the wall and an oscillating closure for the bottom of the measuring chamber, a shaft forming a common axis for said closures and secured to the upper closure, a cam affixed to the lower closure, a cam affixed to the shaft, each of said cams having a dwell portion and an active portion, an actuating lever pivoted to swing on an axis parallel with the shaft and having relatively fixed projections, one engaging each of said cams, the cams being so shaped that while the projection is moving on the



dwell portion of one cam the other projection is acting on the active portion of the other cam.

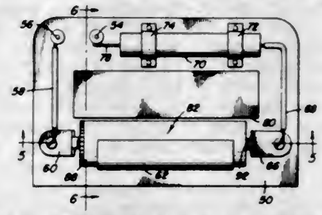
2,588,961
CHOKE CONTROL
Harold A. Carlson, University City, and Donald E. Alford, St. Louis, Mo., assignors to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application October 28, 1946, Serial No. 706,244
12 Claims. (Cl. 251—163)



12. In a carburetor, an air inlet, an unbalanced choke valve mounted in said inlet, an operating lever resiliently connected to said valve, means to actuate said lever to open and close said valve, a stop limiting the rotation of said lever in the valve closing direction to its valve closing position, and an element rigidly movable with said valve, said lever, after it is in engagement with said stop, being pivotable, at least in part, about said stop to cause it to bind against said element and thereby resist opening of said valve.

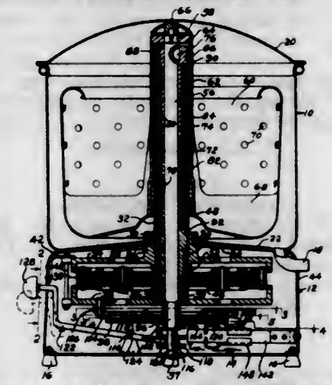
2,588,962
FLASHLIGHT AND HEARING AID BATTERY BOOSTER
Trygve Carlson, Kodiak, Territory of Alaska
Application October 14, 1949, Serial No. 121,395
1 Claim. (Cl. 136—164)

A battery charging device comprising a base with a first and a second line terminal, a pair of resilient clips secured to said base in spaced relation to support at least one battery, an electrical conductor secured to one of said clips and said first terminal, an electrical conductor with a resistor interposed therein connecting the other of said clips and said second terminal, detachable means for releasably supporting at least one battery disposed and held between said clips, including a tube of insulating material with an electrically conductive closure at one end, a spring



disposed in said tube at the opposite end of said tube, a contact carried by said tube and engaging said spring, a cradle to support said tube, said cradle being substantially U-shaped in cross-section with side portions, one of said side portions being secured to said base and said cradle opening upwardly so that said tube may be lifted from said cradle.

2,588,963
WASHING MACHINE AND DRIVE THEREFOR
Bryan W. Chapin, Tully, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application July 3, 1948, Serial No. 36,835
20 Claims. (Cl. 68—23)

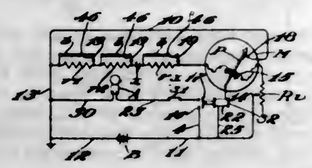


14. In an oscillatory and rotary washing machine drive, in combination, a tub, an induction motor having a rotor disposed beneath said tub and secured thereto, an energizing circuit for the motor, an anchor fixed with respect to said motor and tub, torsional means connecting said rotor with said anchor, means responsive to the angular movement of said torsional means for opening the circuit to said motor, means for initially starting said motor in one direction, a laundry containing basket within said tub connected to said torsional means at a point intermediate the connections of said torsional means with said anchor and rotor, means for disconnecting from said anchor the portion of said torsional means between said basket and said rotor, means for shunting said circuit opening means, and means for at will varying the amount of said predetermined angular movement.

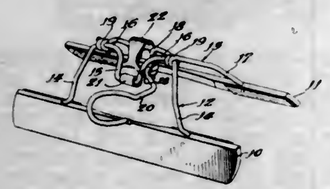
2,588,964
FIRE ALARM SYSTEM
Joseph D. Constantino, Boston, Mass.
Application January 22, 1948, Serial No. 3,705
1 Claim. (Cl. 177—355)

In an alarm system for selectively indicating a fire in any one of a plurality of locations a

detecting circuit comprising an electric meter with a coil and a pointer moved by said coil, a plurality of resistors each of which has a different ohmic characteristic and each of which is located in a respective one of said locations, a direct power source connected in series with the meter coil and said resistors a plurality of switch members each with a normally opened contact and a normally closed contact for shunting a respective one of said resistors, a plurality of bimetallic elements for operating each a respective one of said switches in response to a temperature differential; and a plurality of auxiliary warning circuits each with a signalling device connected with said power source by the operation of a respective one of said normally opened contacts whereby the meter pointer indicates the change in current flowing in the system resulting from the increase in the total series resistance of the system by the opening of any one of the normally closed contacts and the signalling device is operated upon the completion of an auxiliary warning circuit by the closing of a normally opened contact by the operation of one of said switch members by the associated bimetallic elements in response to a rise in ambient temperature.

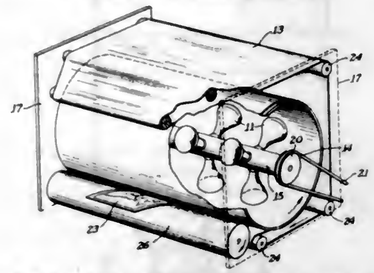


2,588,965
GARMENT HANGER
William P. Crockett, Jr., Chicago, Ill., assignor to Mackie-Lovejoy Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application April 22, 1949, Serial No. 88,948
12 Claims. (Cl. 223—96)



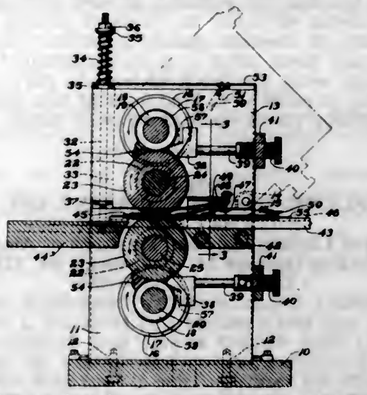
1. A garment hanger comprising two jaws and two rods, each rod being secured to and supporting one of said jaws, said jaws and said rods being oppositely disposed from each other to provide a space between one jaw and its associated rod and the other jaw and its associated rod, means hingedly connecting said rods to each other for pivoted movement, clamping means engaging said rods to bring said jaws into clamping engagement with each other, and a U-shaped spring having one leg secured to one of said rods at two spaced points and having the other leg free and normally disposed in a projected position into the space between said rods wherein it will be engaged by the other of said rods as said jaws are brought into clamping position, said spring serving to urge said jaws out of clamping position.

2,588,966
DRUM-TYPE GLOSSY PRINT DRIER
Paul D. Dale, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 26, 1947, Serial No. 757,279
2 Claims. (Cl. 34—123)



1. A drier for photographic sheet material comprising a pair of end plates, a shaft extending between and having its ends secured to the end plates, a series of infrared lamps mounted radially about the shaft and being spaced longitudinally thereon, a hollow drum having a cylindrical wall formed of a material substantially pervious to infrared radiation and end walls provided with inner reflecting surfaces, said end walls being journalled upon the shaft to enclose the lamps in the drum whereby the latter is rotatable about the shaft and the lamps, a series of freely rotatable rollers positioned about the drum, the ends of said rollers being journalled in said end plates, an endless belt supported on the rollers and engaging a major portion of the cylindrical wall of the drum and being adapted thereby to hold a sheet of photographic material in contact with the cylindrical wall, a transfer roller in peripheral contact with the cylindrical wall of the drum in close proximity to the point at which the endless belt makes contact with the drum, and drive means for rotating said drum whereby the transfer roller and belt are driven by contact with the rotating drum.

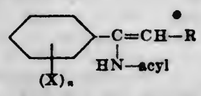
2,588,967
APPARATUS FOR COATING STRIP MATERIAL
Herbert L. Davis, Walpole, Mass., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 21, 1949, Serial No. 94,638
15 Claims. (Cl. 118—5)



1. Apparatus for coating an elongated flexible article comprising a plurality of opposed counter-rotating coating rolls adapted to advance said article and apply a coating thereto, means pressing said rolls toward each other, a backing roll opposed to each of said coating rolls and revolving at a lower peripheral speed than said coating roll, said backing roll being adapted to carry coating material on its face, and scraper means in the nip between each said coating roll and backing roll in the delivery region thereof adapted to scrape at least a portion of said coating material from said backing roll to the adjacent face of said coating roll.

2,588,968
ALPHA-ACYLAMINO STYRENES
Joseph B. Dickey and Theodore E. Stanin, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 29, 1948, Serial No. 68,054
6 Claims. (Cl. 260—558)

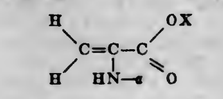
1. An alpha-acylamino styrene having the general formula:



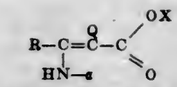
wherein acyl represents a member selected from the group consisting of a saturated fatty acid acyl group containing from 2 to 18 carbon atoms, a benzoylamino group, a naphtholyamino group, a furoylamino group, a carbamyl group, an N-alkyl carbamyl group containing from 1 to 4 carbon atoms, an alkylsulfonyl group containing from 1 to 4 carbon atoms and a phenylsulfonyl group, R represents a member selected from the group consisting of an atom of hydrogen and an alkyl group containing from 1 to 4 carbon atoms, *n* represents a whole number of from 1 to 2 and X represents a monovalent substituent selected from the group consisting of an atom of hydrogen, a hydroxyl group, a halogen atom, a cyano group, an alkyl group containing from 1 to 10 carbon atoms, a fluoromethyl group, an amino group, an alkylamino group containing from 1 to 4 carbon atoms, an acylamino group containing from 2 to 18 carbon atoms, a carboxyl group, a carboxy alkyl ester group containing from 1 to 4 carbon atoms, a carbamyl group, an N-alkylcarbamyl group containing from 1 to 4 carbon atoms, a sulfonalkyl group containing from 1 to 4 carbon atoms, a sulfonamide group and an N-alkyl sulfonamide group containing from 1 to 4 carbon atoms.

2,588,969
CERTAIN ACYLAMINO-ACRYLATES AND -CROTONATES AS INSECTICIDES
Joseph B. Dickey and Harry W. Coover, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 26, 1949, Serial No. 129,694
6 Claims. (Cl. 167—22)

1. A method of killing insects which comprises contacting the insects with a compound selected from the following:



and

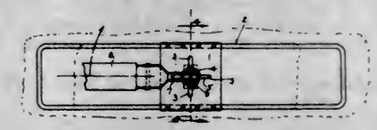


in which *a* is an acyl group, R is selected from H, alkyl of 1–4 carbon atoms, cycloalkyl and aryl, Q is selected from H and methtyl and X is selected from alkyl, organic basic substituents and inorganic basic substituents.

2,588,970
HYDRAULIC FLUID COMPOSITION
Vito Esposito, Haddon Heights, N. J., assignor to R. M. Hollingshead Corporation, Camden, N. J., a corporation of New Jersey
No Drawing. Application October 17, 1949, Serial No. 121,899
11 Claims. (Cl. 252—79)

1. A hydraulic fluid composition comprising a mixture consisting essentially of about 40–50 parts by weight of a glycol, about 30–40 parts by weight water, and a minor proportion on the order of about 10–20 parts by weight of the product obtained by reacting an alkylene oxide with tall oil at elevated temperature of about 350° F.–450° F. and pressure of about 2000–3000 pounds per square inch, said alkylene oxide being selected from the class which consists of ethylene oxide and propylene oxide, and being initially present in proportions of about 14–18 mols alkylene oxide per mol tall oil.

2,588,971
MOP HANDLE CONNECTION
Conrad Fatland, Chicago, Ill.
Application March 27, 1948, Serial No. 17,490
3 Claims. (Cl. 306—3)

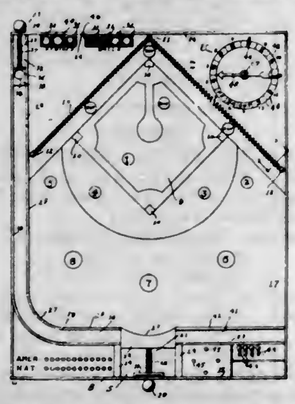


3. A mop comprising a head having a central portion of sheet material, a hole in said central portion, a plurality of grooves extending outwardly from the margin of the hole in a manner to provide pairs of oppositely disposed grooves, a U-shaped shaft including side members connected at the upper end and a flange extending outwardly from the free end of each of the side members rotatably and slidably mounted in the aforesaid hole, a bar transversely positioned through the side members of said U-shaped shaft with its ends in engagement with a pair of the aforesaid grooves, a groove surrounding said bar and intermediate to its ends, a handle pivotally mounted on the upper end of the aforesaid U-shaped shaft by a pivot bar which extends through the shaft between its side members in a direction normal position to that of the aforesaid bar, said pivot bar engaging the aforesaid groove surrounding the aforesaid bar and spring means for normally urging the aforesaid bar and grooves into cooperation.

2,588,972
PARLOR BASEBALL GAME
Robert H. Fish, Adams, N. Y.
Application October 27, 1949, Serial No. 123,947
2 Claims. (Cl. 272—89)

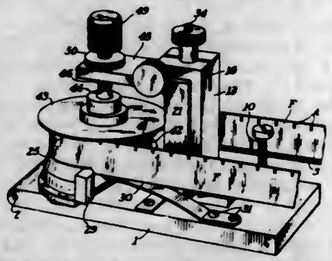
1. In a surface projectile game, an elongated rectangular flat body having its top surface pro-

vided with delineated scoring areas, means at one side of the rear end of said body for forcibly discharging the projectile forwardly along one side of the body, a movable striker mounted at the center of the front side of said body, means for directing the discharged projectile transverse-



ly of the body across the path of movement of the striker, and oppositely angled bumper means extending transversely of said body adjacent its rear end to change the direction of travel of the projectile, if and when it is propelled by the striker, so that it will come to rest at some point on the surface of the body.

2,588,973
MACHINE FOR APPLYING TREATMENT SOLUTION OVER LIMITED AREAS OF MOTION-PICTURE FILM
Harold L. Fitch and Stanley L. Scudder, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 23, 1950, Serial No. 170,066
6 Claims. (Cl. 95—94)



1. A device for applying a band of solution to a moving band comprising a base, a tray to receive the base and adapted to hold a treatment solution at a desired elevation, a screw for adjusting the base in the tray to vary the angle of the base to that of solution contained in the tray, a bracket carried by the base having bearings therein, a drum having trunnions revolvably supported by the bearings of the bracket, an arm extending upwardly from the base and slidably carrying the bracket, adjustable means for sliding the bracket relatively to the arm, a curved solution applying blade mounted on the base and having a position approaching but lying out of contact with the drum whereby the relationship of the moving band carried by the drum may be varied with respect to the solution applying blade by moving the bracket on the arm and thereby moving the band transversely of the solution applying blade.

2,588,974
OPTICAL ALIGNER
Emile A. Fontaine, Gethsemane, Ky., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 7, 1950, Serial No. 148,237
17 Claims. (Cl. 88—14)



1. An optical aligner comprising an objective for forming an image of a test object, means for viewing the image and, optically between the objective and the viewing means, semi-transparent plane reflector means substantially on and along the optic axis of the objective for doubling the image in two azimuths and for superimposing the two images in each azimuth.

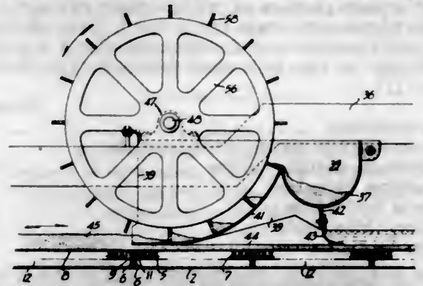
2,588,975
REACTION RATE OF AN EMULSION POLYMERIZATION PROCESS
Charles F. Fryling, Phillips, and Archie E. Follett, Borger, Tex., assignors to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application January 16, 1950, Serial No. 138,938
12 Claims. (Cl. 260—84.1)

1. In a process for the production of synthetic rubber by the polymerization of a monomeric material comprising 90 to 65 per cent by weight of 1,3-butadiene and 10 to 35 per cent by weight of styrene while dispersed in an aqueous medium, the improvement which comprises mixing together a solution in styrene of 0.1 to 10 millimols of diisopropylbenzene hydroperoxide and 0.05 to 2 parts of an alkyl mercaptan having twelve to sixteen carbon atoms per molecule, per 100 parts by weight of total monomeric material, contacting said solution without intimate admixing with an aqueous solution of a soap, maintaining said solutions at 10 to −10° C. for a period between 1 and 20 hours, and thereafter admixing said mixture with butadiene and an iron pyrophosphate activator solution, the latter in an amount sufficient to activate a polymerization reaction and not greater than that molecularly equivalent to said hydroperoxide, and maintaining the resulting admixture at a polymerization temperature between −40 and 30° C. for a period sufficient to polymerize 50 to 98 per cent of said monomeric material.

2,588,976
FILTER
Charles Fuhrmeister, Jr., Maplewood, N. J., assignor to Oliver United Filters Incorporated, Oakland, Calif., a corporation of Nevada
Application November 6, 1946, Serial No. 708,039
4 Claims. (Cl. 210—282.5)

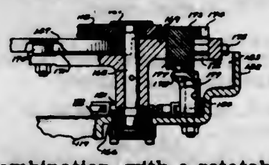
1. A filter comprising: a filter section arranged to travel in a closed path through a feed zone, a cake forming zone and a cake discharge zone; cake discharge means located at said discharge zone immediately adjacent said filter section for removing all cake formed on said section except a relatively thin substrata thereof; slurry feeding means located at said feed zone over said closed path for flowing slurry over said substrata; means including an automatic filter valve connected to said section for subjecting said section to an outwardly directed fluid pressure during an intermediate portion of the feed cycle of said section thereby to disintegrate the substrata of cake

carried thereon and to admix said disintegrated cake with said slurry; and means including said



automatic valve for subjecting said section to a differential filtering pressure during the time that it passes through said cake forming zone.

2,588,977
INDEXING AND DRIVE MECHANISM
Stanley J. Gartner and Paul G. Pilkinton, Emporium, Pa., assignors to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application December 19, 1945, Serial No. 635,889
5 Claims. (Cl. 74—112)

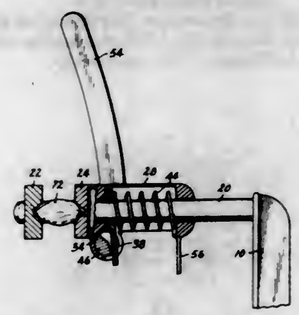


1. The combination, with a rotatably mounted turret including a wall portion and a plurality of projections from said wall portion regularly spaced in a circle concentric with the axis of the turret, of an indexing and locking mechanism for said turret comprising two sliding members, means providing a support along which one of said sliding members is guided for reciprocating movement into and out of locking engagement with one of said projections, a lever, means providing a pivot for said lever for movement in a plane parallel to that of the turret, guiding means carried by said lever and rigidly mounted thereon along which the other of said sliding members is guided for reciprocatory movement along said lever into and out of locking engagement with another of said projections, means for effecting a throw of said lever in one direction to index the turret a distance equal to the angular spacing between two adjacent ones of said projections when the said slide thereon is in locking position and for moving said lever in the opposite direction when the said slide is in unlocked position, and means for effecting reciprocation of each of said sliding members independently of the throw of said lever.

2,588,978
PROCESS OF MANUFACTURING RESORCINOL MONOBENZOATE
William M. Gearhart and Robert W. Pugh, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 30, 1949, Serial No. 90,764
3 Claims. (Cl. 260—476)

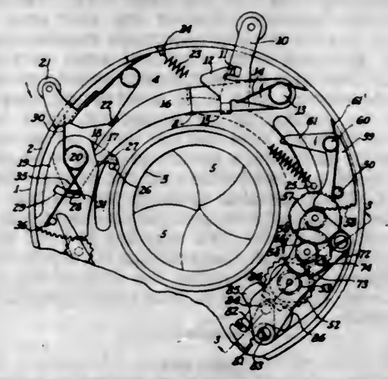
1. A process of preparing resorcinol monobenzoate which comprises heating resorcinol dibenzoate with approximately 25% excess of resorcinol, in an atmosphere of a non-oxidizing gas, in the presence of a small amount of sodium methoxide, at a temperature of from 80° C. to 110° C., for from ½ hour to 4 hours, dissolving out unreacted resorcinol with water, and separating unreacted resorcinol dibenzoate from the resorcinol monobenzoate formed, by means of their differential solubility in a hot, aliphatic monohydric alcohol of less than 4 carbon atoms.

2,588,979
NUT-CRACKING IMPLEMENT
Merritt T. Goble, Muskogee, Okla.
Application April 30, 1948, Serial No. 24,400
1 Claim. (Cl. 146—16)



An implement for cracking nuts of a type having a tapered end comprising a pair of relatively movable jaws, said jaws containing nut receiving sockets each providing a proximate convergent surface having an included angle approximating a right angle contiguous to and intersecting a remote convergent surface having an acute included angle.

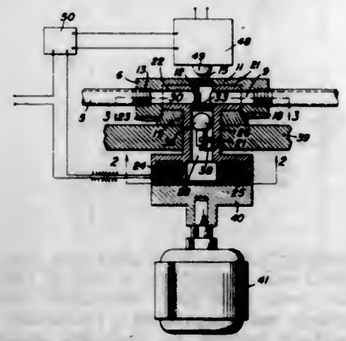
2,588,980
NORMALIZING DEVICE FOR GEAR TRAIN SHUTTER RETARDS
Howard T. Hodges, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 22, 1950, Serial No. 157,580
8 Claims. (Cl. 95—63)



1. A normalizing device for camera shutters of the type including a shutter casing, an exposure aperture therein, shutter leaves pivotally mounted in the shutter and normally covering the exposure aperture, a power-driven master member operably connected to the shutter blades for moving the blades to open and close the exposure aperture, a latch for the master member, a latch-releasing mechanism including a trigger, a retard comprising a train of gears one of which is a con-

tact sector adapted to be driven by the master member to control the speed of operation thereof, means to control the shutter speed by moving the contact sector relative to the master member, said retard normalizing device comprising a polarized member carried by a member of the gear train spaced from the contact sector and a permanent magnet adjacent thereto whereby said magnet may tend to maintain the gear train in a predetermined position of rest.

2,588,981
PHOTOELECTRIC FLUID INSPECTION AND CONTROL DEVICE
William L. Hole, Honolulu, Territory of Hawaii
Application March 12, 1948, Serial No. 14,566
5 Claims. (Cl. 137—78)



1. An apparatus for inspecting streaming fluids in bulk and for discharging said fluids selectively comprising a feed pipe for the fluid, a plurality of discharge pipes, a housing connected with said feed and discharge pipes, a cylindrical cock member arranged for limited angular rotary motion within said housing and provided with recesses for conducting the fluid from the feed pipe to a discharge pipe, said recesses being so shaped and arranged that in one position of the cock member the recesses form communication passages between the feed pipe and one of the discharge pipes, while in a different angular position of the cock member the said recesses form the communication passage between the feed pipe and another discharge pipe, said cock member being further provided with a central axial bore surrounding the axis of rotation of the said member and intersecting said fluid conducting recesses, means for producing an inspection light beam directed through said central bore, photo-sensitive means including a switch adapted to be closed and opened in accordance with the attenuation of the light beam passing through the central bore and electromagnetic means for producing an angular rotation of the cock member and for maintaining the same in the position to which it has been moved, thus changing the connection of its recess with the discharge pipe upon operation of said switch.

2,588,982
DIRECT POSITIVE PHOTOGRAPHS USING HYDRAZINE IN THE EMULSION
Charles E. Ives, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 26, 1950, Serial No. 192,380
3 Claims. (Cl. 95—88)

1. The method of obtaining a direct positive image in a silver halide emulsion layer, which comprises exposing to light rays to which the emulsion is sensitive, a silver halide emulsion layer a test portion of which upon exposure to a light intensity scale for a fixed time between 1/100 and 1 second and development for 3 minutes at 20° C. in the following internal type developer (II):

	Grams
Hydroquinone	15
Monomethyl-p-aminophenol sulfate	15
Anhydrous sodium sulfite	50
Potassium bromide	10
Sodium hydroxide	25
Sodium thiosulfate	20
Water to 1 liter	

gives a maximum density at least 5 times the maximum density obtained when the equally exposed silver halide emulsion is developed for 4 minutes at 20° C. in the following surface developer (I):

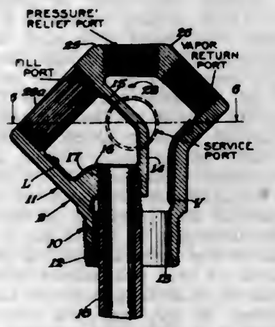
	Grams
p-Hydroxyphenylglycine	10
Sodium carbonate	100
Water to 1 liter	

said emulsion containing a hydrazine compound of the general formula

$$H_2N—NHR$$

where R is a mononuclear aryl radical, and developing only the unexposed portion of said emulsion layer in a silver halide developer.

2,588,983
MULTIPLE VALVE BODY
Andrew G. Johnson, Lakewood, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio
Application April 11, 1950, Serial No. 155,174
1 Claim. (Cl. 285—210)



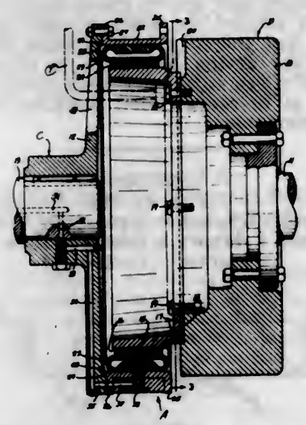
A multiple valve head body for use in the dispensing of gases liquefied under pressure, said body having a lower portion formed for attachment to a tank and an upper portion integral therewith for mounting a valve assemblage, said lower portion having an axial bore for fluid communication with the tank, said upper portion having side walls and a top wall, said upper portion having a vapor chamber formed therein communicating with said axial bore, three valve ports formed in said top wall, a recurved wall extending partially from one side wall and from said top wall into said vapor chamber and arranged to isolate one of said valve ports formed in said top wall, thereby forming a liquid chamber, said recurved wall having a bottom section partially overlying the axial bore in said lower body portion and apertured to receive a fill tube for extending through said axial bore, a radial boss extending from a side wall of said body adjacent said one side wall and having a downwardly slanting top, a pressure gauge port extending into said vapor chamber from said slanting top, and a valve port extending radially into said vapor chamber from the side of said boss.

2,588,984
CONVEYER CARRIER BAR
Chester S. Kubisiak, Wisconsin Rapids, Wis.
Application May 9, 1949, Serial No. 92,195
2 Claims. (Cl. 263—8)



2. In a conveyor for use in a high temperature zone, a carrier bar comprising a tube, a rod slidably disposed in said tube, means disposed at one end of said rod and said tube respectively for securing said tube and said rod to conveyor operating chains, a spring extending longitudinally of said tube and constituting a resilient seat, said spring being secured to said tube, and a spring support secured to said tube extending partially around said spring.

2,588,985
CLUTCH WITH REMOVABLE LINING
Arthur O. Kutz, Buffalo, N. Y., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application February 3, 1947, Serial No. 726,051
2 Claims. (Cl. 192—88)



1. In a clutch mounting, the combination of a driving member having a recess formed in a face thereof, a driven member formed with a recessed face and further having a series of access openings located in annularly spaced relation inwardly of the face recess, said driving and driven members being relatively axially spaced with said recessed faces in opposing relationship, and a drive clutch assembly operatively positionable between said members and including an outer ring element detachably connected with said driven member and formed with a flanged portion for seating engagement in the recessed face thereof, and an inner ring element operatively related with said outer ring element and provided with a flanged portion for seating engagement in the recessed face of said driving member, the flanged portion of said inner ring element being adapted for detachable connection with said driving member and accessible through said series of access openings in the driven member, said drive clutch assembly, upon detachment of said outer and inner ring elements from seating engagement with said driven and driving members respectively, being adapted for removal from between said driving and driven members without disturbing the axially spaced relation of said members.

2,588,986
CONNECTION FOR REVERSIBLE IRON CORDS
Donald Leroy Reynolds, Independence, Mo.
Application July 28, 1950, Serial No. 176,383
3 Claims. (Cl. 219—25)

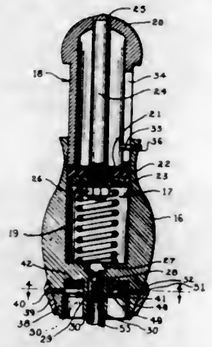


1. An electric sadiron having a handle of insulating material with an upright portion at the rear thereof, said upright portion having a recess forming a rearwardly opening receptacle and a laterally opening threaded bore communicating with said receptacle, said sadiron having terminnals extending into the lower portion of the receptacle, a removable insert substantially filling the receptacle, spaced contact elements in said insert having portions at the lower end thereof for engagement with the terminals, sockets on said contact elements arranged transversely of the insert and opening from the side thereof in alignment with the threaded bore, a flexible cord for connecting the sadiron to an electric power supply, a connection at one end of the cord in the threaded bore in engagement with the side of the insert, prongs on said connection removably engaging in the sockets, and a threaded sleeve member rotatably and slidably mounted on the cord threaded into the threaded bore into engagement with the connection for retaining said connection in engagement with the insert and the prongs in the socket.

2,588,987
PIPE JOINT
John A. Roberts, New York, N. Y.
Application August 21, 1947, Serial No. 769,931
2 Claims. (Cl. 285—163)

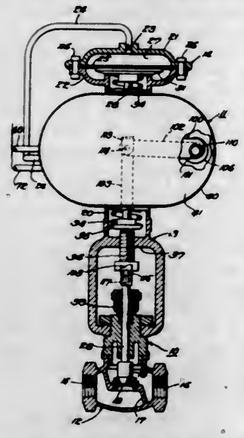
1. In an article of the class described having a body formed at its bottom with a depending circular skirt wall for fitting over the top of a bottle and an outlet port opening eccentrically into the skirt wall and a washer within the skirt wall sealing the engagement of the body with the bottle and having an eccentric hole aligned with the outlet port, means on the body holding the washer non-rotatively in position within the skirt wall with its hole aligned with the outlet port, comprising a plurality of dogs, the body being formed with a groove, each of said dogs being pivotally mounted at one end within the groove, the body being formed with slots in continuation of said groove and opening into the skirt wall and through which said dogs can be pivoted into the

interior of the skirt wall, and means for pivoting said dogs inward, said groove and slots being formed on a level with relation to said washer so



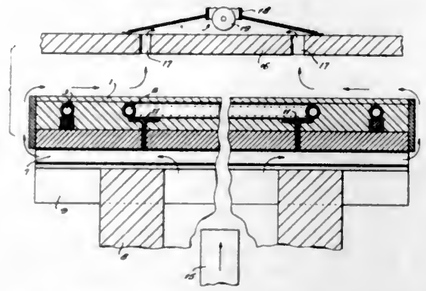
that when said dogs are pivoted inward their top faces will bear frictionally against the bottom face of the washer.

2,588,988
FOLLOW-UP TYPE SERVOMOTOR
John W. Robins, Westwood, Mass., assignor to Mason-Neilan Regulator Company, Boston, Mass., a voluntary association of Massachusetts
Application February 14, 1947, Serial No. 728,644
2 Claims. (Cl. 121—41)



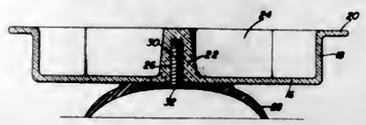
1. In a positioning device for a regulating means having a fluid pressure motor and a control member actuated thereby, the combination of a pressure responsive element for connection with a controlling pressure, an arm actuated by said motor and movable proportionally therewith, a tension spring connected at one end with said arm, a lever to which the other end of said tension spring is connected, means operatively connecting said element with said lever, a support, a spring leaf flexure rigidly connected to said support and rigidly connected to said lever at a point between said spring connection and said element connection, said spring leaf flexure having its longitudinal axis substantially in coincidence with the line of resultant force exerted by said element and said tension spring, and a pilot valve in operative connection with said lever and having a passage for communication with a source of fluid pressure for varying fluid pressure from said source to said motor.

2,588,989
SCREEN PRINTING TABLE
Gudo Hermen Rodenburg, Helmond, and Gilles Holst, Aalst, near Eindhoven, Netherlands, assignors to N. V. P. F. van Vlissingen & Co.'s Katoenfabrieken, Helmond, Netherlands
Application April 16, 1949, Serial No. 88,017
In the Netherlands April 3, 1948
7 Claims. (Cl. 34—151)



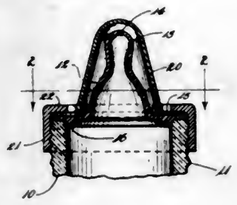
1. In a screen printing table, in combination, supporting members for said table arranged so as to form a space between said members; a plurality of spaced mounting members located on said supporting members so as to form between themselves spaces communicating with said space between said supporting members; a screen top mounted on said spaced mounting members; means for supplying drying air to said space between said supporting members, so that said drying air will pass above said supporting members, beneath said screen top and between said spaced mounting members; and suction means located above said screen top so as to draw said drying air around the edges of said screen top, over the top thereof and upwardly therefrom, whereby the drying air comes in contact with workers who are adjacent to said screen printing table so as to render their working conditions more comfortable.

2,588,990
BABY PLATE
Daniel J. Sanchez, Rensselaer, N. Y.
Application February 3, 1950, Serial No. 142,251
2 Claims. (Cl. 65—15)



1. As a new article of manufacture, a food dish for an infant comprising a dish embodying a container portion having a flat-bottomed circular base plate with an upstanding peripheral wall, the bottom surface of said base plate being centrally apertured and provided with a centered upstanding integral boss, said boss having an axial bore in alignment with the aperture in the base plate and said bore being screw-threaded and adapted to receive the shank portion of a bolt, said boss constituting a hub and also a nut, and radial partitions joined at their outer ends to the interior surface of said wall and integral along their lower edges with said base plate and integral at their inner ends with said hub, the height of the hub corresponding to the depth of the container portion.

2,588,991
NURSING BOTTLE
Frank H. Schellin, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 23, 1948, Serial No. 16,540
2 Claims. (Cl. 215—11)



1. A nursing bottle comprising a container having an outwardly threaded surface at its mouth, a nipple of resilient material having an outwardly directed radial flange for seating it on the container at the mouth thereof, a retaining ring internally screw-threaded for engaging the threaded surface of the container and an inwardly directed flange overlying the flange of said nipple, a hollow protector for enclosing the nipple, interlocking means on said protector and said retaining ring for detachably holding said protector in place, said interlocking means comprising radially extending tabs on said protector positionable beneath oppositely extending tabs of said flange of the retaining ring and over the resilient material of said nipple the tabs of said retaining ring and the resilient flange of said nipple being arranged to clamp the tabs of said protector when said retaining ring is screwed in place and to release the clamping pressure by slight rotation of said ring without removal thereof to release said protector for independent rotative movement so that the protector can be removed and the retaining ring retightened without manual contact with said nipple.

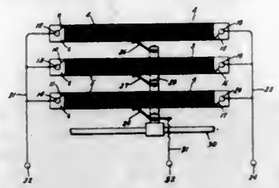
2,588,992
DENTIFRICE
Julian Robert Schlaeger, Chicago Heights, Ill.
No Drawing. Application July 28, 1950, Serial No. 176,547
3 Claims. (Cl. 167—93)

1. A dentifrice comprising approximately 26.67% tricalcium phosphate, 45.40% glycerine, 15.40% water, 0.58% flavoring, 0.96% gum tragacanth, 0.10% saccharin, 2.89% surface active agent, 5.00% diammonium phosphate and 3.00% urea.

2,588,993
SEMIHARD RUBBER COMPOSITION AND PLATEN COVER THEREOF
Charles H. Schroeder, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application April 16, 1949, Serial No. 88,047
20 Claims. (Cl. 260—5)

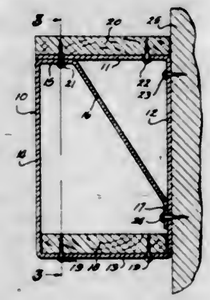
1. A semi-hard vulcanized composition comprising a homogeneous blend of 100 parts by weight of a sulfur-vulcanizable elastomeric material capable of vulcanization to a hard vulcanizate, and from 15 to 75 parts by weight of a rubbery copolymer of a major proportion of an isoolefin having from 4 to 7 carbon atoms with a minor proportion of a conjugated diolefin having from 4 to 8 carbon atoms, which copolymer is capable of vulcanization only to a soft vulcanizate in the presence of 8 to 30 parts by weight of sulfur, vulcanized in the presence of 8 to 30 parts by weight of sulfur.

2,588,994
PRECISION VARIABLE RESISTOR DEVICE
Benjamin B. Scott, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 25, 1950, Serial No. 146,269
3 Claims. (Cl. 201—48)



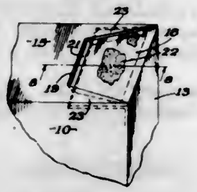
1. A precision variable resistance device comprising a plurality of variable resistor units, electric contact means for each of said resistor units, means mounting said contact means for engagement each with one or more turns of its said resistor unit and for movement together over said resistor units to vary the amount of resistance included between one end of each of said resistor units and its said contact means, electric connection for connecting said ends of said resistor units together, and electric connection for connecting said contact means together, said resistor units having different mutually compensating resistance gradient errors with respect to a predetermined resistance gradient such that when said contact means are moved together over said resistor units the resulting resistance gradient for parallel connection of said resistor units is nearer to said predetermined gradient than the resistance gradient of each of said resistor units.

2,588,995
DOUBLE SHELF BRACKET
Bernard G. Setvate, Milwaukee, Wis.
Application September 17, 1948, Serial No. 49,677
3 Claims. (Cl. 211—90)



2. A shelf assembly comprising a plurality of bar elements, each element being bent spacedly transversely and longitudinally to form an oblong rectangular structure, an inward continuation thereof forming an oblique reinforcing bar, a lower shelf secured within the lower segments of the rectangular structures, and an upper shelf secured to the tops of the upper segments of the rectangular structures.

2,588,996
BOX CLOSURE
Robert F. Snyder, East Cleveland, Ohio
Application June 10, 1948, Serial No. 32,237
5 Claims. (Cl. 229—17)

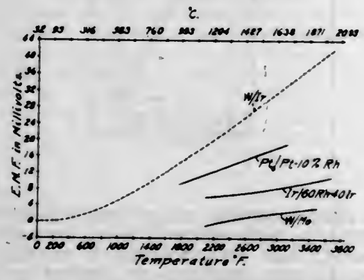


1. A folded paper box comprising side panels and end panels, an end flap extending from one end of one of said end panels, a substantial portion of said end flap being equal in width to the associated end panel, means attached to said side panels to form the top of said box, the portion of said top adjacent said end flap having formed therein a top flap, said top flap being articulated to said top along a line that is parallel to and closely adjacent the end of said end flap and stops short of each side panel, said top flap having sides free of said top extending from each end of said line of articulation substantially to the associated corners of the box, said end flap overlying said top flap and underlying the portions of said top disposed at each side of said top flap.

2,588,997
2,3,4,4,5,5-HEXACHLORO-2-CYCLOPENTEN-ONE INSECTICIDAL COMPOSITIONS
Edmund B. Towne and Hubert M. Hill, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 20, 1949, Serial No. 134,134
5 Claims. (Cl. 167—30)

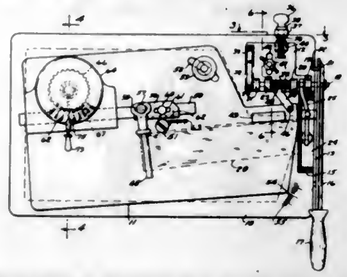
2. An insecticidal composition comprising an insecticidal proportion of 2,3,4,4,5,5-hexachloro-2-cyclopentenone and a refined petroleum distillate.

2,588,998
THERMOCOUPLE
Walter C. Troy, Evergreen Park, and Gary Steven, Oak Lawn, Ill.
Application June 16, 1950, Serial No. 168,422
3 Claims. (Cl. 136—5)



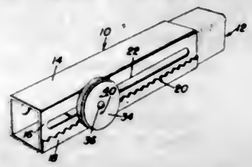
1. A thermocouple comprising an element of substantially pure tungsten and an element of substantially pure iridium joined together at one point.

2,588,999
REED HAT LEATHER TRIMMING MACHINE
Nathaniel George Tucker, Forest Hills, N. Y.
Application March 2, 1948, Serial No. 12,652
5 Claims. (Cl. 223—22)



1. A hat leather trimming machine comprising a base plate, a hat leather holding panel pivotally and slidably mounted on said base plate, a bracket slidably mounted on the base plate, a knife having a notch in the cutting edge thereof pivotally mounted on said bracket, means for adjusting the position of the bracket to position the knife in cutting relation with hat leather holding elements on the end of the base plate on which the bracket is mounted, and means connecting the bracket to the hat leather holding panel whereby the bracket follows the panel so that a reed of a hat leather extended from said panel registers with the notch in the cutting edge of the knife.

2,589,000
BUTTER SPREADER
Eugene J. Vani, Benwood, W. Va.
Application October 26, 1950, Serial No. 192,201
1 Claim. (Cl. 206—56)



A butter spreader comprising an elongated tubular body open at its ends for receiving a stick of butter, a follower slidable within said body for forcibly ejecting a stick of butter from an open end of said body, means operable exteriorly of said body for controllably moving said follower longitudinally of said body, said body having a longitudinal slot in one side, an axle journaled in said follower and extending through said slot, a pinion on said axle, a rack on said body engaging said pinion, a knob on said axle for rotating said axle and pinion, said body comprising a unitary sheet metal member folded upon itself, one edge of said member overlapping the other, the overlapping edge having saw teeth thereon comprising said rack.

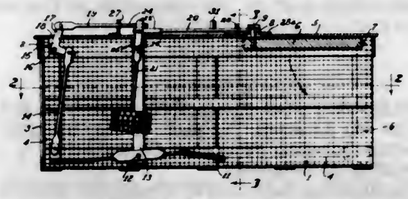
2,589,001
SPRING CLIP DEVICE
Joseph Villano, Brooklyn, N. Y.
Application June 8, 1948, Serial No. 31,795
2 Claims. (Cl. 24—255)

1. A spring clip device comprising a leaf-spring having a substantially flattened V-shaped portion with means at substantially the apex of the V-shaped portion for detachably securing the device to a supporting member, a cap attached to one arm of the V-shaped portion and extending across the other arm in overlying relation thereto and normally providing therewith clamping engagement means for holding an article, the



cap at its spring-attached end being adapted, upon application of pressure thereto in a direction toward the supporting member, to release the clamping engagement means from its article-holding position.

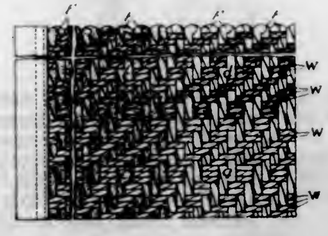
2,589,002
ANIMAL TRAP
Clayton W. Vonada, Woodward, Pa.
Application August 23, 1949, Serial No. 111,867
2 Claims. (Cl. 43—61)



1. Animal trap comprising a box having a door at one end pivoted at its top on a transverse axis, opening inwardly to a position adjacent the top of the box, said door having a latch keeper, a treadle within said box mounted intermediate its ends to tilt on a transverse axis, a sectional latch bolt slidably mounted along the top of said box, one section of which having its end engageable with said keeper when said door is in open position for holding it open, a bait lever transversely pivoted between its ends within said box having its free end pivotally connected to said latch bolt section for releasing said latch bolt when the opposite end of said bait lever is pulled toward the open end of said box permitting said door to fall shut, and linkage between said treadle and the other section of said latch bolt for moving the latter to release position responsive to downward movement of said treadle, said other latch bolt section being pivotally connected to said bait lever at a point offset from the pivotal connection between said first named section and latch bolt.

2,589,003
RUG
Stanley E. Waite, Oshkosh, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin
Application March 25, 1950, Serial No. 151,879
7 Claims. (Cl. 139—418)

1. A fibrous rug structure having filler and warp strands combined into a twill weave, a first group of the filler strands being of a first color and extended crosswise of the rug to provide a wide band, a second group of the filler strands being of a second color and extended crosswise of the rug to provide a wide band contiguous to the first band, and other groups of filler strands of the said first and second colors alternately being extended crosswise of the rug to provide additional wide bands in contiguous relation with the two colors thereof displayed in alternation, a first group of warp strands being of said first color and extended lengthwise of the rug to provide a wide band, a second group of warp

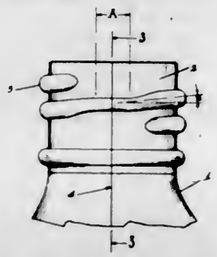


strands being of the said second color and extended lengthwise of the rug to form a second wide band contiguous to the first band, and other groups of warp strands of the said first and second colors alternately being extended lengthwise of the rug to provide additional wide bands in contiguous relation with the two colors thereof displayed in alternation, the warp strands being arranged in regularly recurring units ranging from one to three strands, each unit of warp strands being misaligned with the adjacent units by a distance approximating the width of one filler strand whereby to irregularize the display of warp strands between the filler strands.

2,589,004
PROCESS FOR PRODUCING COUPLERS FROM BI-FUNCTIONAL AMINES
Arnold Weissberger and Charles O. Edens, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 4, 1948, Serial No. 58,352
6 Claims. (Cl. 260—310)

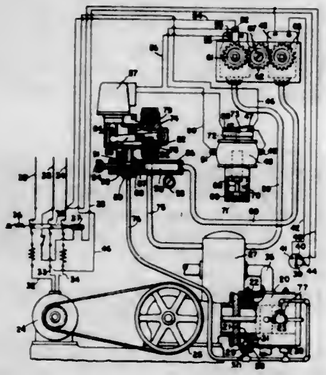
1. A method for preparing a photographic coupler compound from a primary aminophenylalkylamine which comprises first acylating only the amine group directly attached to the alkyl radical of said amine, with a phenyl ester of a carboxylic acid selected from the group consisting of 1-hydroxy-2-naphthoic acid, phenyl-2-(2',4'-diamylphenoxy)-5-nitro benzoic acid, 1-phenyl-3-carboxy-5-pyrazolone, 2,4-diamylphenoxy acetic acid, benzoyl acetic acid, p-benzoylacetamido benzoic acid, acetic acid, methane sulfonic acid and p-toluene sulfonic acid, at a temperature at which substantially only said amine group is acylated, then acylating the amine group attached to the phenyl radical of the resulting amide with an acylating agent, one of said phenyl ester and acylating agent containing a group selected from the class consisting of phenolic hydroxyl and methylene groups capable of reacting with the oxidation product of a primary aromatic amino photographic developing agent to form a dye.

2,589,005
GLASS CONTAINER
Charles Welhart, Alton, Ill., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application August 20, 1949, Serial No. 111,479
4 Claims. (Cl. 215—31)



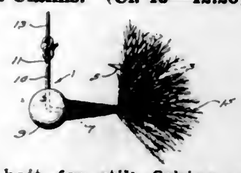
1. A container having circular wall defining a mouth, a continuous screw thread formed exteriorly of said wall for holding engagement with a closure, said thread at diametrically opposed points of the wall having sections reduced in size and extending normal to the axis of the container, said sections being intermediate the ends of the thread.

2,589,006
COMPRESSOR SYSTEM
Paul A. Yerger, Bloomsbury, N. J., assignor to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey
Application July 3, 1948, Serial No. 36,919
2 Claims. (Cl. 230—4)



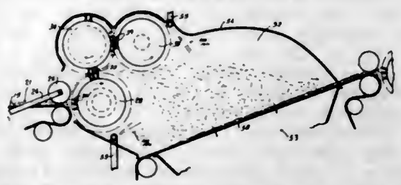
1. A controlling system for compressors including in combination a compressor having unloading devices therefor, a driving motor for the compressor, a receiver connected to the outlet of the compressor to receive the compressor discharge, a controller in communication with the receiver and actuated by pressure fluid therein for valving pressure fluid to the compressor unloaders to unload the compressor whenever the fluid in the receiver has reached a predetermined value, a second controller in communication with the receiver and actuated by pressure fluid therein to stop the driving motor for the compressor at a predetermined value of the pressure fluid, and means between the receiver and the second-mentioned controller for throttling the flow of pressure fluid from the receiver to the second-mentioned controller so as to vary the time in which pressure of the fluid reaches the predetermined value.

2,589,007
ARTIFICIAL FISH BAIT WITH WEIGHTED HOOK MEMBER
Harold J. Landon, Grand Blanc, Mich.
Application March 21, 1949, Serial No. 82,655
2 Claims. (Cl. 43—42.28)



1. A fish bait for still fishing comprising a single rigid wire-like member that comprises a hook bill at one end, an eye for a fishing line at the other end, a shank including a first portion extending from said hook bill and a second portion rigidly connected to the eye, said hook bill being an extension of the first portion of the shank and lying substantially in a plane containing the first shank portion and the eye, and a weight rigidly secured to the member and having its center of gravity beneath the eye, said bait having a center of gravity located so that it and said eye define a line that is substantially normal to said first shank portion whereby when said line is vertical, e. g., when the bait is suspended in water on a fishing line attached to said eye and there is substantially no horizontal motion of the bait, said first shank portion is substantially horizontal, said bill having a barb adjacent its extremity and on the same side of the shank as the eye, i. e., above the weight.

2,589,008
APPARATUS FOR FORMING FIBROUS MATS
George M. Lannan, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application July 3, 1947, Serial No. 758,925
6 Claims. (Cl. 19—80)



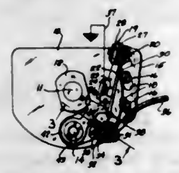
6. An apparatus for forming mats of fibrous materials including a feed conveyor on which masses of fibers are deposited in random relation, a first rotatable picking roll cooperating with said conveyor and provided on its surface with a plurality of outwardly extending spikes for removing tufts of fibers from said mass, a second spiked picking roll in tangential relation with said first roll and rotatable in the same direction as said first roll and at a lower angular speed for removing tufts of excessive size of fibers from said first roll, a third spiked picking roll disposed substantially in the plane of said second roll and having the spikes in meshing relation, said roll rotatable in the opposite direction at substantially twice the angular speed of said second roll for completely disrupting the tufts of fibers carried by said second roll, means including an upwardly inclined conveyor for collecting the fibers discharged by said rolls, the upper end of said conveyor terminating substantially in the plane of the axis of said first roll, and means adjacent said first and third picking rolls for directing jets of air tangentially of said rolls.

2,589,009
ANTISWAY BAR
John W. Leighton, Port Huron, Mich.
Application March 22, 1946, Serial No. 656,310
10 Claims. (Cl. 267—11)



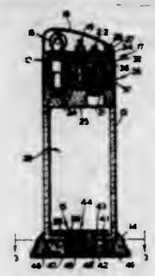
1. An antisway device adapted to be connected to the arms of opposed wheel suspensions on opposite sides of a vehicle frame, comprising a bar having terminal coupling portions adapted to be respectively connected to such arms and a free intermediate portion between said coupling portions and which is resiliently bendable, said intermediate portion being substantially flat and relatively thin in one plane and the coupling portions being substantially flat and relatively thin in planes substantially perpendicular to the first plane.

2,589,010
CIRCUIT BREAKER
Howard R. Lindbeck, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application May 29, 1946, Serial No. 672,951
1 Claim. (Cl. 200—30)



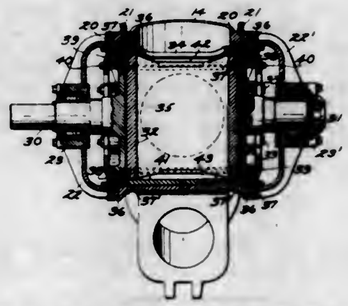
In a circuit breaker for ignition systems of high speed engines, a base member, a pivot element on said member, a support plate pivotally adjustable relative to said base member about said pivot element as a pivotal axis, said support plate having three spaced upstanding flanges, an elongated flexible member of conducting material anchored on one of said flanges, extending alongside the second flange and terminating in a free end adjacent the third flange, a contact point on said second flange, a contact point on said flexible member in engagement with the contact point on the second flange when said flexible member is in an unflexed position, a rotary cam, a rigid arm of insulating material pivoted at one end on said pivot element and having the other end interposed between and in constant engagement with said cam and the free end of said flexible member for flexing of said member to open and close said contacts in accordance with cam operation of said rigid arm, a circuit-connection post threadedly secured in said third flange having a shank portion extending therethrough, said rigid arm having a cylindrical recess in one side thereof in alignment with and confronting the portion of said circuit-connection post extending from said third flange, and a compression spring disposed in unsupported relation between said rigid arm and said third flange having one end encircling the extending portion of said connection post and the opposite end seated in the recess in said rigid arm, pivotal adjustment of said support plate relative to said base member effecting bodily movement of the contact point on said second flange relative to said cam to increase or decrease the amount of opening of the contact points consequent to flexing of said flexible member.

2,589,011
CLOSURE FOR TABLE CIGARETTE LIGHTERS
Sylvester G. Lipic, Sappington, Farnham F. Boyle, St. Louis, and Luther S. Lyon, Webster Groves, Mo., assignors to Ritepoint Co., St. Louis, Mo., a corporation of Missouri
Application October 12, 1949, Serial No. 121,017
2 Claims. (Cl. 220—39)



1. In a table cigarette lighter having a fluid reservoir including a flat bottom therefor, an improved base for said lighter comprising a sealing plate adapted to fit inside of and rest above the bottom of said reservoir, a tubular shank formed as a part of said plate, threaded internally and externally, said shank being passed through an opening in the bottom of said reservoir and having its internal bore communicating with said reservoir, a sealing disc interposed between said plate and a bottom of said reservoir, a plug threaded into an end of said shank to close the same, a nut threadable on said shank adapted to be drawn against the bottom of the reservoir and clamp said sealing disc between the same and said plate, a base member adapted to be treated onto said shank and a compartment channelled in said base member adapted to receive and store extra wicks and flints for said lighter.

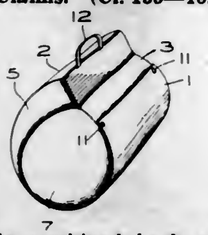
2,589,012
VALVE FOR PLASTIC CONCRETE PRESSURE PUMPS
Charles I. Longenecker, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application July 24, 1947, Serial No. 763,328
7 Claims. (Cl. 251—113)



1. In a pump for pumping concrete or the like, an oscillating plug member having cylindrical end portions and a channel transverse to the axis of said plug, said plug having a longitudinal groove in its periphery aligned with an inner end of said channel, a wear-resisting element disposed within said longitudinal groove with the central portion of one of its faces forming an extension of an inner end of said channel,

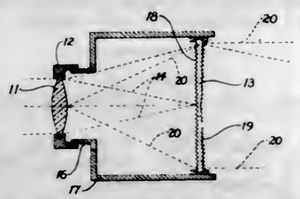
said wear-resistant element forming the leading edge of the plug member when the latter is oscillated through the medium being pumped, and means securing the wear-resistant element within the plug member.

2,589,013
COMBINED BACK AND HEADREST
Lewis W. Martin, Lancaster, Pa.
Application September 23, 1950, Serial No. 186,460
7 Claims. (Cl. 155—182)



1. A foldable combined back and head rest for automobile seats comprising a flexible, uniformly thin seat section, a flexible back rest section of gradually increasing thickness flexibly hinged to said seat section with the thin end thereof, and a head rest section flexibly hinged to the thick end of said back rest section offset from the center between the front and back thereof.

2,589,014
FOCUSING VIEW FINDER SYSTEM
John H. McLeod, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 14, 1951, Serial No. 210,912
6 Claims. (Cl. 88—1.5)



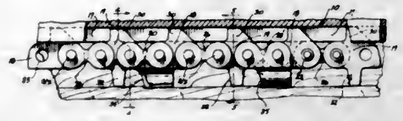
5. A focusing view finder system comprising an objective of focal length f and diameter d for forming a real image of an object to be viewed, a positive Fresnel lens of focal length approximately f adjacent to said image and optically aligned with the objective, a light diverging surface adjustably at the plane of said image and on a transparent sheet of index of refraction N, said surface having conical elements perpendicular to said plane with conical half angles approximately equal to C where

$$\tan C=\frac{2f}{d}(N-1)$$

and means for adjusting the distance between the objective and the light diverging surface.

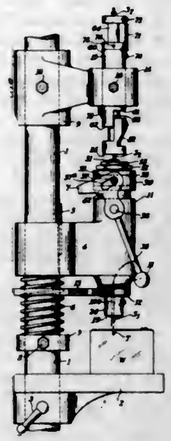
2,589,015
CHAIN SAW
Max Merz, Seattle, Wash., assignor to Engineering Research, Inc., a corporation of Washington
Application July 22, 1947, Serial No. 762,662
1 Claim. (Cl. 143—135)

In a power saw of the character described, in combination, a saw guide bar having a chain guide channel formed in a longitudinal edge thereof and a saw chain arranged to travel on the channeled edge of said bar; said chain comprising a succession of pivotally joined like link groups, each link group comprising a forward link equipped at its outer edge medially of its ends with a depth gauge runner and at its opposite edge with a wing for guided travel in the bar channel, a rearward spacer link formed at its outer edge with a wing for guided travel in the bar channel, complemental connector links disposed at opposite sides of the chain for sliding



contact upon the edge of said guide bar, and pivot members extended through their ends and pivotally connecting the said forward and rearward links of the group in end-to-end relationship; said forward link and said rearward spacer link having adjacent end surfaces at the outside of and formed at an angle to the line of pivot members to engage in solid abutment while the chain is traveling along said longitudinal edge of the guide bar, one of the connector links having a kerf cutting blade formed as an integral part thereof and extended beyond the abutting surfaces of said forward and rearward links.

2,589,016
AUTOMATIC ROUND HEAD SCREW STICK DRIVER
Chester William Michatek, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 23, 1948, Serial No. 50,743
16 Claims. (Cl. 144—32)

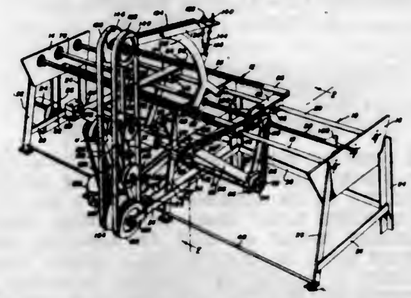


1. Mechanism for driving an end screw of a stick of screws in which each screw is connected to the next adjacent screw by a narrow neck and including, in combination, a support, a carriage slidable on the support, a two-part screw driver including a first part rotatably and slidably mounted on the carriage, and a second part rotatably mounted thereon and movable therewith, to move to and from work, a collet forming the screw engaging element of the rotatable screw driver, means for holding the collet in a screw head

clamping position, means for releasing the collet to a screw head releasing position and for sliding the screw driver, comprising a crank operably connected to the carriage and first screw driver section for varying the separation therebetween, a handle for moving the crank, said handle also being adapted to move the carriage and screw driver to and from work, and a screw advancing mechanism in axial alignment with the screw driver, positioned for contact with said screw driver when said screw driver is slid upon the support by the handle, the contact being adapted to advance the screw stick held by the driver to position a fresh screw for use therein

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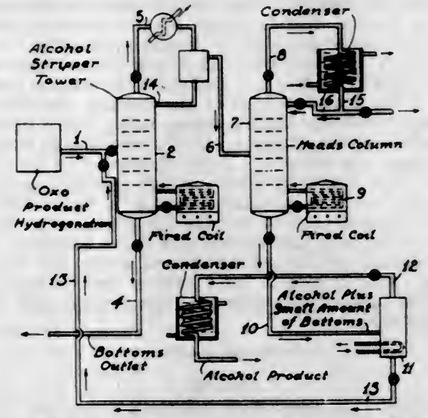
2,589,017
PATTERN LATHE
Caleb L. Moore, Roanoke Rapids, N. C., assignor of ten per cent to Fred A. Bright, ten per cent to Fannie M. Bright, five per cent to Eloise B. Tritt, and five per cent to Elvin D. Tritt, all of Roanoke Rapids, N. C.
Application April 16, 1951, Serial No. 221,275
12 Claims. (Cl. 51—144)



8. In a wood working machine including a frame and a horizontally movable carriage slidably mounted on the frame and including means for supporting a form and a work piece in spaced parallel relation, a bellcrank mounted at its apex on the frame for vertical swinging movement, means urging one leg portion of the bellcrank against a form supported on the frame, and a tool supported on the other leg portion of said bellcrank and engaging a work piece supported on the frame.

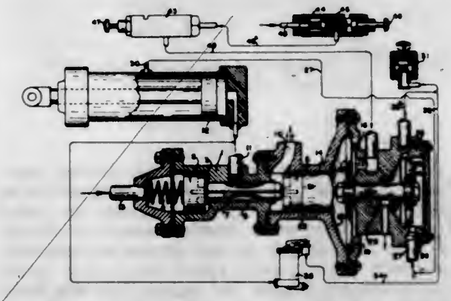
2,589,018
DISTILLATION OF OXO ALCOHOLS
Charles E. Morrell, Westfield, Frank A. Biribauer, Cranford, and Carl S. Carlson, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 31, 1948, Serial No. 68,472
6 Claims. (Cl. 202—40)

3. An improved continuous distillation process for the purification of a crude alcohol containing high-boiling impurities and obtained by the reaction of olefins with carbon monoxide and hydrogen and subsequent hydrogenation of the aldehydes resulting therefrom, which comprises feeding the said crude alcohol into an initial fractionation zone, maintaining the bottoms temperature in said initial fractionation zone substantially above the normal boiling point of the alcohol, maintaining continuous reflux within the initial fractionation zone, removing an alcohol-rich vapor stream essentially free of higher-boiling unstable impurities from said initial fractionation zone, passing said alcohol-rich vapor stream immediately into a second fractionation zone, removing as an overhead vapor stream substantially all volatiles boiling below the alcohol from an upper portion of said second frac-



tionation zone, and removing an alcohol-enriched vapor stream from a lower portion of said second fractionation zone.

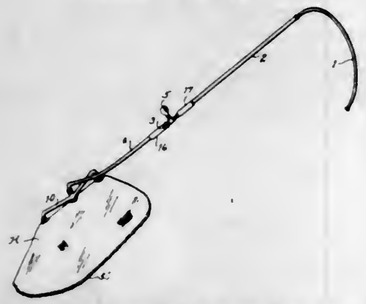
2,589,019
VALVE OPERATING MEANS
John Neuroth, Syracuse, N. Y., assignor to The Prosperity Company, Inc., Syracuse, N. Y., a corporation of New York
Application July 20, 1945, Serial No. 606,052
1 Claim. (Cl. 137—153)



In a valve, a casing having an inlet, an outlet for a motive fluid and an exhaust passage, a movable valve member in the casing having heads initially in position to close the casing to the inlet of motive fluid and to open the casing to the exhaust of motive fluid, the casing being formed with a pressure chamber having an intake port for a fluid under pressure, a normally closed, self-closing manually operable valve controlling the flow of motive fluid through said port into the pressure chamber, means for operating the valve member comprising a disk in the pressure chamber, the chamber having a wall constituting a seat on which the disk seats when the port is open, the disk having its circumferential edge free and movable by the motive fluid pressure coming through said port towards its seat, means for transferring the movement of the disk to said valve member to operate it to open the intake head and close the exhaust head, the casing being formed with a second pressure chamber having an intake port and a concave wall constituting a seat for the second disk and an intake port, a second disk in the second pressure cham-

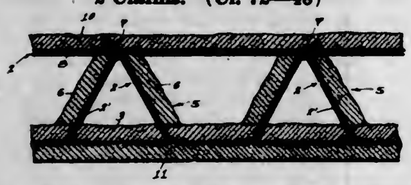
ber, the second disk being flexible and resilient free at its edge and movable into position where it presses its edge toward the concave wall of the second chamber and flexes to conform to the concave wall under pressure through the second port a motion transmitting means between the first and second disks to initially transfer the movement of the first disk toward the concave wall of the first chamber and shift the second disk toward the concave wall of the second chamber, the valve member in the casing being acted upon by spring means tending to close the intake head and open the exhaust head thereof and hence return the disks to their initial starting position, the second chamber having a valve controlled release port to release the pressure in the second chamber and permit the valve member to be actuated by its spring means when the first intake port is closed, and means for transferring the flexing movement of the second disk to the first disk.

2,589,020
SPRAYING DEVICE
Harold D. North, Jr., Shaker Heights, Ohio, assignor to The Engine Parts Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 16, 1948, Serial No. 44,519
4 Claims. (Cl. 299—111)



2. A manually portable spraying device comprising a rigid tubular hand boom adapted to be connected to portable supply container for spray fluid and provided with nozzle means for creating a fine mist spray in an elongated pattern, a one-piece transparent spray confining hood, and a collapsible frame for supporting the hood comprising an elongated hoop at the open lower side of the hood, strut members supporting the hoop and extending upwardly and inwardly inside of the hood, and pivotal connections at the upper and lower ends of the strut members with the hand boom and with said hoop respectively.

2,589,021
MONOLITHIC HOLLOW WALL
Theodore Matthew O'Neal, Delray Beach, Fla.
Application May 26, 1947, Serial No. 750,413
2 Claims. (Cl. 72—48)



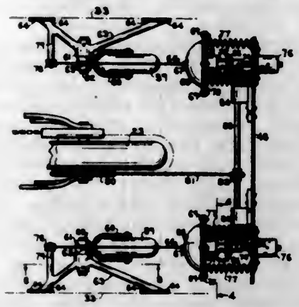
1. A monolithic wall construction, comprising spaced sheets of a reticulated reinforcing material, a layer of a cementitious material on each side of one of said sheets, substantially V-shaped members formed of folded lengths of said reinforcing material equidistantly spaced along one of the sides of said one sheet with the edges of the side portions thereof embedded within the cementitious layer on that side forming spaced hollow studs, a backing sheet covering the inner surface of each of said V-shaped members, a layer of cementitious material on each of the outer surfaces of said members, the second sheet of said reinforcing material extending between and joining the apices of said members and secured thereto, and a layer of cementitious material on the outer surface of said second reinforcing sheet.

2,589,022
APPARATUS AND METHOD FOR MAKING PLASTIC FOLDING CONTAINERS
Louis Rodman Page, Jr., Radnor, and John Pusey Croasdale, Jr., Daylesford, Pa., assignors, by mesne assignments, to Robert Gair Company, Inc., New York, N. Y., a corporation of Delaware
Application June 21, 1948, Serial No. 34,298
5 Claims. (Cl. 18—19)



1. A press for cutting and scoring plastic container blanks comprising a die having cutting and scoring blades attached thereto, a flat surfaced opposing press plate, said scoring blades constituting means on said die coacting with said press plate for maintaining a plastic sheet flat during a cutting and scoring operation, a heat conductive backing in contact with said die, an electrical heating element embedded in said backing, said cutting blades being attached to said backing in heat conducting relationship, said blunt scoring blades being attached to said backing in heat conducting relationship and shorter than said cutting blades whereby they are constructed and arranged to heat and deform a flat plastic sheet along the lines of said scoring blanks simultaneously with the cutting action of said cutting blades.

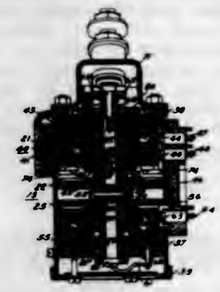
2,589,023
GOVERNOR OPERATED STEADYING WHEELS FOR MOTORCYCLES
Jacob Pattner, New York, N. Y.
Application December 10, 1948, Serial No. 64,499
4 Claims. (Cl. 280—301)



1. Governor operated means for raising steadying wheels carried by forks pivotally mounted on

stub-shafts located on opposite sides of the driven rear wheel of a motorcycle, comprising a transverse shaft rotatively supported across the rear end of the motorcycle, short shafts rotatively supported and extended forward at the ends of said transverse shaft, means connecting said transverse shaft and said short shafts so that said short shafts will be rotated when said transverse shaft is rotated, drive means connecting said transverse shaft and the driven rear wheel of the motorcycle to cause said transverse shaft to be rotated by that driven rear wheel, a pair of opposed weights pivotally mounted on the front end of each of said short shafts to swing outward and rearward as said short shafts are rotated, a hollow casing enclosing each pair of opposed weights, said hollow casings being slidably supported on said short shafts and each having a flat rear plate against which the respective pair of weights press when pivoted outward and rearward to move the respective casing rearward, and means interconnecting said casings and said forks to pivot said fork to raise the steadying wheels carried thereby when the casings are moved rearward.

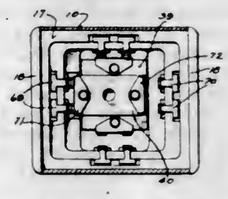
2,589,024
MOTOR CONTROL SYSTEM AND SWITCH
Charles R. Peter, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 19, 1946, Serial No. 663,374
5 Claims. (Cl. 200—100)



5. An electromagnetic switch, comprising: a relatively stationary contact and a relatively movable contact engageable therewith, a first winding, a member of magnetic material disposed adjacent the outer periphery of said first winding and having a free end, means including a first armature normally positioned away from said first winding constructed and arranged to cause engagement of said contacts upon energization of said first winding, said armature having a portion in approximate alignment with said free end, blocking means, responsive to energization of said first winding, constructed and arranged to prevent said armature from causing engagement of said contacts unless said first winding is energized, said blocking means including a blocking member interposed between said portion and said free end when said first winding is deenergized, means for withdrawing said blocking member from between said portion and said free end in response to energization of said first winding, a second winding and a second armature normally disposed near said second winding, and means responsive to said engagement-causing movement of said first armature for moving said second armature away from said second winding and for moving said first armature away from said first winding with a hammer blow upon energization of said second winding

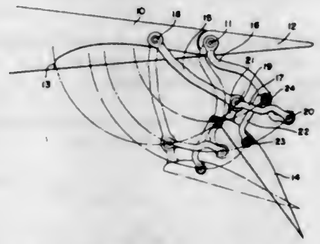
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2,589,025
MULTIPOSITION SWITCH
Herbert S. Phelps, Herbert C. Curtis, and Hiram V. Maurer, Milwaukee, Wis., assignors to Curtis Development & Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application July 21, 1949, Serial No. 105,964
14 Claims. (Cl. 200—16)



2. In a switch for controlling a plurality of electric circuits, a base, a plurality of contact-terminals mounted on the base, a movable member comprising a plurality of blocks movable relative to each other, blades pivotally mounting the movable member on the base, one of the blocks being mounted on the other block, a plurality of contacts mounted on each of the blocks for severally engaging the contact-terminals, and a lever for shifting the movable member as a whole in one direction and for individually shifting the said one block in another direction for thereby severally closing one of the circuits in each direction of movement of each of the blocks.

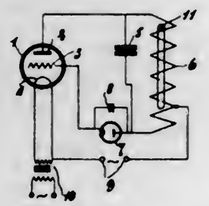
2,589,026
FLAP OPERATING MEANS
Joseph A. Phillips, Wichita, Kans., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application May 10, 1946, Serial No. 668,922
6 Claims. (Cl. 244—42)



1. In combination with an airfoil having a recess in the under surface thereof, a flap adapted to nest in said recess in the retracted position thereof, a forward arm pivoted to the airfoil and to the flap, a rearward arm pivoted at one end to the airfoil, a link connecting the outer ends of said arms and forming with said arms and the airfoil a four-bar linkage causing said arms to move angularly in unison, and a second link pivotally connected to the rearward arm intermediate the ends thereof and pivotally connected to the flap rearwardly of the pivotal connection of the forward arm to the flap with the pivotal connection of said second link to the flap being disposed forwardly of the pivotal connection of said first link to said rearward arm at least in the retracted position of said flap, said arms and second link being arranged to carry the flap between said retracted position thereof and an extended position disposed substantially beneath and spaced from said airfoil, to maintain the

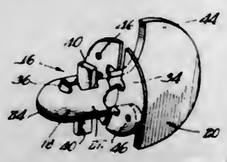
flap substantially parallel with the airfoil as it approaches and departs from said retracted position, and to turn the flap about its transverse axis at an accelerating rate with respect to said angular movement of the arms as the flap approaches its extended position.

2,589,027
HIGH-FREQUENCY FURNACE
Klaas Posthumus, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 28, 1946, Serial No. 706,237
In the Netherlands July 24, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 24, 1965
3 Claims. (Cl. 219—47)



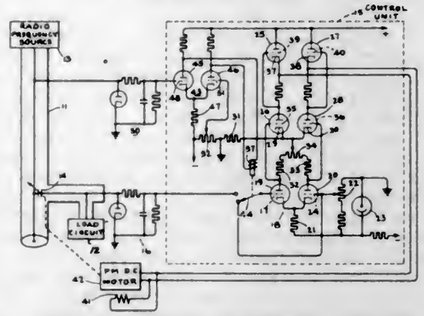
1. A high-frequency oscillator comprising an electron discharge tube having a cathode, a grid and an anode, a resonant circuit coupled between said anode and said grid, and a diode discharge device having a cathode and an anode, said device being interposed between said grid and said circuit with the cathode of said device connected to said grid and the anode thereof connected to one end of said circuit, said device being characterized by a value of saturation current which corresponds to the maximum permissible grid current of said tube.

2,589,028
QUICKLY OPERABLE FASTENER
Ouglijesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application May 17, 1947, Serial No. 748,691
4 Claims. (Cl. 24—221)



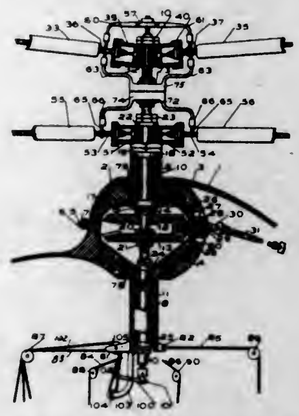
1. A quickly operable rotary fastener including a hollow shank portion with a closed entering end, a head portion on the opposite extremity of said shank portion, said shank and head portions consisting of a single strip of sheet metal stock folded intermediate its ends to provide oppositely disposed shank halves and folded at its opposite extremities to present said head portion, a sheet metal stud member consisting of a stem enclosed within said shank portion and oppositely disposed lugs projecting through and outwardly from said shank portion at a point spaced from the head portion, said lugs presenting work engaging cam surfaces, and means on the fastener for interlocking with an apertured work piece to secure the fastener against inadvertent retrograde rotation.

2,589,029
AUTOMATIC VARIABLE COUPLER
Harry G. Pratt, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application January 18, 1950, Serial No. 139,313
7 Claims. (Cl. 323—7)



1. The combination, in a system for regulating the supply of signal voltage from a source to a load, a source of operating voltage, two pairs of electron discharge devices, each electron discharge device having an anode, a cathode, and a control electrode, the devices of each pair being connected in series across said source with a resistance in series between the anode of one device and the cathode of the other device, means to vary the potential of the control electrode of said other device with the anode potential of said one device of each pair, and means to supply to the control electrodes of said one device of each pair a voltage varying on said electrodes in opposite sense with variations in voltage on said load, and means responsive to the difference in potentials of the cathodes of said other devices of said pairs to control the voltage supplied to said load.

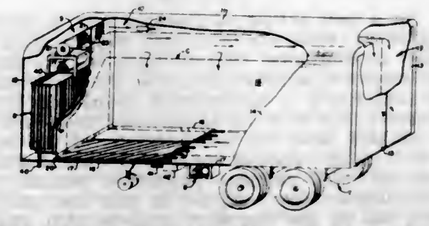
2,589,030
HELICOPTER ROTOR SYSTEM
Murray William Alde, Beaver Lodge, Alberta, Canada
Application April 26, 1949, Serial No. 89,597
4 Claims. (Cl. 244—17.23)



1. In a helicopter a fuselage, a casing formed integral with the fuselage, a spherical body mounted to revolve within the casing, said body including stem and head portions and an extension portion, the casing providing enlarged openings for said stem, head and extension portions, a hollow shaft mounted for rotation in the head portion of said body, a further shaft mounted for rotation in the stem of said body and concentrically within the first named shaft, opposing gears fixed to said shafts, a driven shaft mounted to rotate in the body extension, said shaft being adapted for connection to be driven from a source of power, and a pinion on the driven shaft meshing with and adapted to drive the opposing gears oppositely.

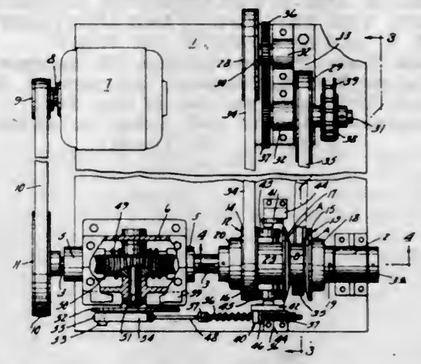
3. In a helicopter providing a fuselage, a casing formed integral with the fuselage, a spherical body mounted to revolve within the casing, said body including a depending stem portion and an upstanding head portion and further including a lateral extension, the casing providing enlarged openings for said stem and head portions and lateral extension, a hollow shaft mounted for rotation in said body and head portion thereof, a further hollow shaft mounted for rotation in the first named shaft and the stem of said body, means connectable to a source of power for driving said shafts oppositely said means including a driven shaft mounted rotatable in the lateral extension of the spherical body, a hub on each of the hollow shafts, said hubs including radial portions, arms carried by the radial portions of said hubs, blades mounted to turn on the arms, a rod endwise slidable within the second named hollow shaft, a spider fixed on said rod, said spider including arms, and means connecting the arms on said spider and said blades whereby endwise sliding of the rod causes the blades to turn on the arms carried by the radial portions of the hub.

2,589,031
METHOD OF AND APPARATUS FOR CONTROLLING TEMPERATURE OF TRAILER CARGO AND THE LIKE
Rollin F. Allyne, Denver, Colo.
Application January 18, 1950, Serial No. 139,279
7 Claims. (Cl. 62—91.5)



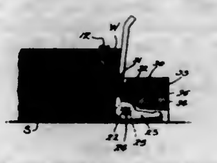
1. Apparatus for controlling the temperature of trailer cargo and the like, comprising a wall defining a space at the forward end of said trailer or the like, said wall being spaced from the bottom of said trailer and having at least one air discharge opening adjacent the top; a refrigeration unit for cooling air to a temperature below that of the desired temperature of said cargo, said wall being insulated between said unit and said cargo; means enclosing said unit and including an upper bell connecting with a duct, said means being insulated on the side adjacent said trailer front and spaced therefrom to form a passage; a gate in said duct movable to different positions in one of which air is permitted to be drawn around said unit to said duct and in another position air is drawn into said duct from the passage adjacent said trailer front; a blower disposed above said unit and having an air intake at said duct and a discharge conduit connected with the discharge opening in said wall; and means for moving said gate to different positions in accordance with the temperature in the cargo space of said trailer.

2,589,032
POWER TRANSMISSION MECHANISM
George H. Amonsen, Minneapolis, Minn.
Application February 26, 1949, Serial No. 78,647
14 Claims. (Cl. 74—220)



1. Power transmission mechanism comprising a pair of expansion pulleys, a pair of other pulleys in spaced co-operatively aligned relation to said expansion pulleys, intermeshing reversing gears driving one of the pulleys of one of said pairs in a reverse direction to the second pulley of the same pair, a pair of endless belts, one each running over one of said expansion pulleys and its co-operatively aligned other pulley, means for manipulating said expansion pulleys to selectively and singularly bring the same into frictional driving engagement with their respective belts, said last named means including means for cushioning and timing the operation of the expansion pulleys in relation to each other and in their driving of the belts.

2,589,033
PAPER-CUTTING APPARATUS
John R. Baumgartner, Milwaukee, Wis., assignor to Mercury Engineering Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application May 31, 1949, Serial No. 96,300
3 Claims. (Cl. 164—59)



1. In a sheet stack locator for paper cutting apparatus having a paper stack support and a movable cutting knife having an inner side normal to the surface of said support and an outer outwardly tapered side, the combination of a base, means for mounting said base on said support adjacent the outer side of said knife, a broad substantially flat faced locator member adapted to be normally disposed in a plane parallel to said knife, a pivot shaft for said member mounted in said base for straight line lengthwise movement in a plane perpendicular to that of the knife under the action of waste cut off by said knife, spring means mounted in said base engageable with said shaft opposing said lengthwise move-

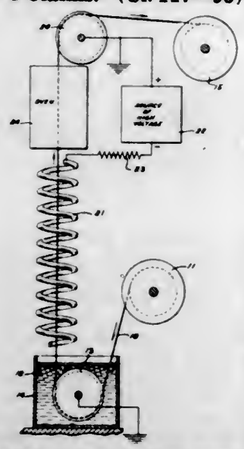
ment, means for limiting the inward pivotal movement of said member to a plane parallel to that of the inner side of said knife, and spaced springs between said base and member opposing the pivotal movement of said member from its position parallel to the knife by the pressing of the cut waste thereagainst by the tapered side of said knife.

2,589,034

METHOD AND APPARATUS FOR CONTROLLING THE THICKNESS AND UNIFORMITY OF A LIQUID COATING ON WIRE

Harold Beedy, Western Springs, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 19, 1947, Serial No. 762,080
8 Claims. (Cl. 117—93)



6. An apparatus for coating wire with enamel comprising means for applying liquid enamel to a wire, means for moving said wire longitudinally, and means for setting up an electrostatic force extending spirally around and along said moving wire to strip the excess enamel from said wire, the last said means comprising an open helical electrode and a source of relatively high voltage connected to said electrode and said wire.

8. A method of controlling the thickness and uniformity of enamel coating on a wire, which comprises applying a coating of liquid enamel on a wire, creating a helically shaped electrostatic field having substantial spaces between adjacent turns of the helix, advancing the wire through the helically shaped electrostatic field in line with the major axis of the helical field to strip the excess enamel from said wire by electrostatic force, and then baking the enamel.

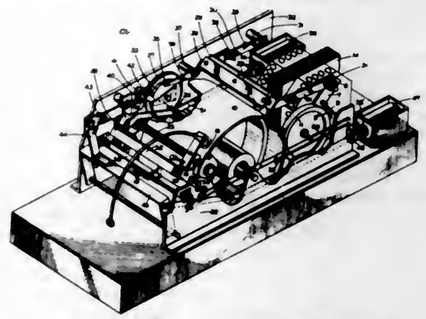
2,589,035

AUTOMATIC ERASE FOR MAGNETIC RECORDERS

Semi Joseph Begun, Cleveland Heights, and Theodore F. Deucher, Parma, Ohio, assignors to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application July 17, 1950, Serial No. 174,172
5 Claims. (Cl. 179—100.2)

1. A magnetic recording device comprising: a recording head; a magnetizable and rotatable record member; a motor for rotating said record member; a head-traversing device driven by said motor for causing said head successively to traverse a plurality of record tracks on said record member during successive revolutions of said record member; an erasing device extending across all of said record tracks; a record-control for said magnetic recording device; an electrical circuit adapted to be energized by said record-control and effective to cause said erasing device to be operative for substantially one complete revolution of said record member, whereby all previous



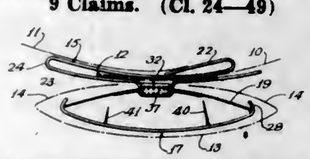
records on said record member are erased; a cam driven by said motor for causing said erasing device to become inoperative after said one complete revolution; and an electrical circuit adapted to be energized by said record control at a fixed position of said record member and effective to start said head in its traverse of said record tracks.

2,589,036

TIE HOLDER

Frank M. Bender, Evanston, Ill.

Application July 19, 1950, Serial No. 174,639
9 Claims. (Cl. 24—49)



1. As a new article of manufacture, a holder adapted to retain the wide and narrow ends of a tied conventional four-in-hand tie in place with respect to a front portion of the user's shirt and comprising a horizontally elongated front member adapted to fit behind the wide end of the tie and have the usual infolds of the wide tie end lapped around its ends, a horizontally elongated back member positioned behind the front member and adapted to grip the narrow end of the tie and the shirt front portion, and a spring disposed between, and extending lengthwise of, the front and back members, having its central portion supported by the center portion of said back member and positioned with respect to the front and back members so that it is capable of flexing forwardly and rearwardly, securing means supported by said front member for retaining said spring in either one of said flexed positions whereby when it is flexed rearwards with respect to the front member and past its dead center it holds the front member in an open position wherein its ends are spaced forwards from the ends of the back member and permit the infolds of the wide tie end to be lapped around them or removed therefrom and when flexed forwards with respect to the front member and past its dead center it yieldingly holds the front member in a closed position wherein its ends clamp the infolds of the wide end of the tie against the ends of said back member.

2,589,037

PRESERVATION OF GREEN COLOR IN CANNED VEGETABLES

Gordon H. Bendix and Robert E. Henry, Park Ridge, and Norman H. Strodtz, Eola, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application March 23, 1951, Serial No. 217,286
7 Claims. (Cl. 99—186)

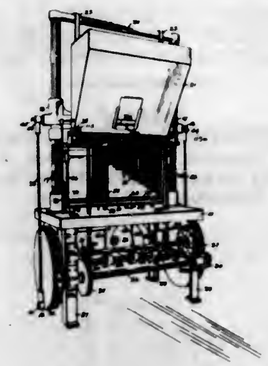
1. The process of preserving the color in canned green vegetables which consists in adding an alkaline calcium sucrate to the liquid in which the vegetables are preserved.

2,589,038

CORK PACKING MACHINE AND THE LIKE

Leon Booth, New York, N. Y.

Application November 8, 1947, Serial No. 784,859
16 Claims. (Cl. 18—5)



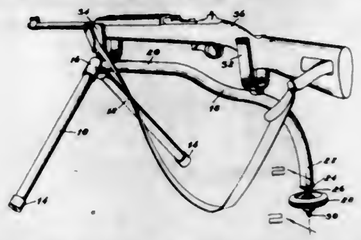
13. In a machine for packing comminuted material into tubes, the combination, with a hopper for holding said material and a plunger adapted to ram the material into a tube aligned with said plunger, of feed mechanism comprising a stationary jaw and a horizontally movable jaw, each of said jaws being provided with a vertical recess, a horizontal plate underneath said hopper, drive means for displacing said movable jaw toward said stationary jaw, prior to the descent of said plunger, between said plate and said hopper, whereby material deposited by the hopper on said plate in the retracted position of the movable jaw is pushed toward the stationary jaw and is crowded into a channel formed by said recesses, the position of said recesses on said jaws being such that said channel is aligned with and accommodates the plunger when the movable jaw has been fully displaced toward the stationary jaw, and adjusting means for varying the relative position between said hopper and said movable jaw, whereby the amount of material deposited on said plate in the retracted position of the movable jaw may be controlled, said plate being provided with an opening aligned with said plunger, a conveyor means for aligning a tube with said opening, and lifting means synchronized with said drive means in such manner as to introduce the top of the tube into the opening prior to the descent of the plunger, thereby bracing the tube at its top and in said plate.

2,589,039

SIGHTING-IN SUPPORT FOR FIREARMS

Morris F. Booth, Alden, Mich.

Application April 30, 1946, Serial No. 666,073
1 Claim. (Cl. 89—40)



A sighting-in support for a firearm comprising in combination a tripod having a pair of angularly related forward legs fixedly connected together at their upper ends and a third leg rigidly connected at its upper end with said angularly related legs, said third leg having a generally horizontal portion extending rearwardly from the upper ends of said other legs substantially centrally thereof, said horizontal portion being curved downwardly at its rear end to provide a substantially vertically extending leg portion at the lower end of said third leg, U-shaped, upwardly opening brackets fixedly mounted on said horizontal portion of said third leg for rigidly supporting a normally hand-held firearm on said support for proof firing, and threaded adjusting means at the lower end of said vertically extending leg portion, said threaded adjusting means being adapted to engage a ground surface and actuatable to progressively raise and lower the lower end of said vertically extending leg portion along a substantially vertical path to pivot said tripod forwardly and rearwardly about the lower ends of said forward pair of legs.

2,589,040

ELECTRIC IRON

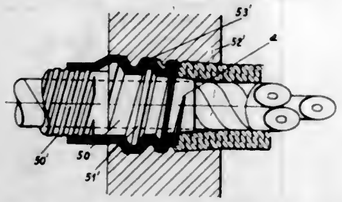
Ernest Brauner, St. Louis, and Maurice J. Denning, St. Charles, Mo., assignors to The Emerson Electric Manufacturing Company, St. Louis, Mo., a corporation of Missouri

Application December 6, 1945, Serial No. 633,137
11 Claims. (Cl. 38—89)



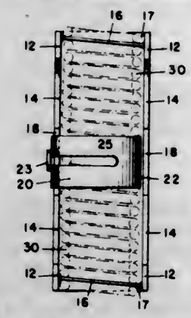
1. In an electric iron, a sole plate, a cover thereover, a first plate over the cover providing an air space above the cover, and a hand guard having a second plate above the first plate, said second plate being of heat-insulating material and extending substantially across the top of the iron, a handle member separate from the second plate, the handle member including a hand grip portion and post means for supporting the grip portion above the second plate, and means for securing said parts together, said first plate having downturned edges engageable with the cover, and having a body part supported above the cover by said edges.

2,589,041
METHOD OF FORMING FLEXIBLE ENDLESS TUBES
Rudolf C. Bremer, Zurich, Switzerland
Application January 25, 1944, Serial No. 519,610
In Switzerland January 30, 1943
1 Claim. (Cl. 93—94)



The method of forming flexible endless tubes which consists in the steps of spirally winding strips of material to form an endless tube, continuously force feeding the endless tube as formed, forming said continuously force fed tube into helical corrugations while simultaneously uninterruptingly and progressively compressing together said helical corrugations, and uninterruptingly and progressively reducing the diameter of the so-compressed helical corrugations.

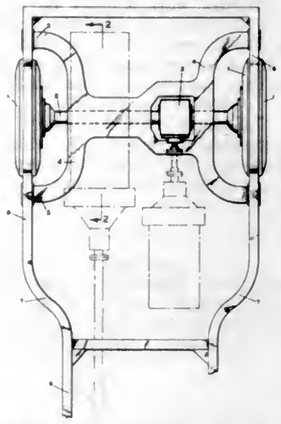
2,589,042
HOOD HINGE SPRING REMOVER
Walter E. Brenneman, York, Pa.
Application April 7, 1950, Serial No. 154,556
2 Claims. (Cl. 29—227)



2. A spring handling tool including a body curved to semi-cylindrical shape with an open side to receive in the body a helical spring of about the same diameter as the inside of the tool, a head near each end of the body, a slotted clip centrally surrounding the body, and securing means, carried by the body, extending within the slot to guide and limit the movement of the clip so as to lock a spring in place when the clip is revolved to close the open side of the body.

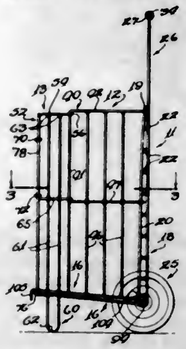
2,589,043
FRAME FOR VEHICLES
William M. Brewen, San Jose, Calif.
Application August 6, 1947, Serial No. 766,491
3 Claims. (Cl. 280—106.5)

2. A vehicle chassis comprising a generally rectangular substantially coplanar frame to be supported horizontally, wheels supporting the frame, the front end portion of said frame being wider than the rear portion with the side members thereof lying in the planes of and above the wheels at said front end, spaced apart pedestals extending downwardly from said frame beyond the front and rear peripheries of said wheels, a bolster bracket mounted on the axle of said wheels and having arms extending laterally thereof beyond the front and rear peripheries of



said front wheels and terminating in alignment with the pedestals, and springs interposed between the pedestals and the ends of the arms.

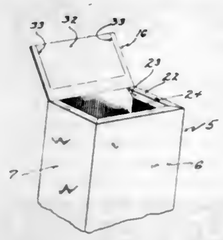
2,589,044
COLLAPSIBLE SHOPPING CART
John Brodeck, West New York, N. J.
Application February 8, 1950, Serial No. 143,109
8 Claims. (Cl. 280—36)



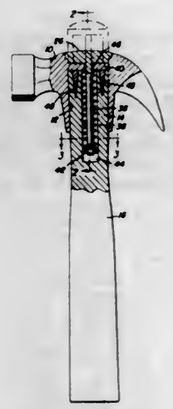
1. A collapsible shopping cart comprising a back section, an axle at the lower end of the back section, wheels carried by the axle, a handle attached to the back section and extending upwardly therefrom, side sections hinged at their rear ends to the sides of the back section, sections hinged at their rear ends to the front ends of the side sections, a front section hinged to and slidably engaging the front ends of said last mentioned sections, and a bottom section hinged at its rear end to the axle and having means to slidably and non-detachably engage the front section.

2,589,045
TUBE TYPE CONTAINER
Lewis C. Brooks, Milwaukee, Wis., assignor of one-third to Ira Milton Jones, River Hills, Wis.
Application April 16, 1947, Serial No. 741,904
2 Claims. (Cl. 229—37)

1. A consumer type container made from a single blank of flexible sheet material cut and scored to provide a tubular body substantially rectangular in cross section, characterized by: inwardly directed substantially rigid supporting ledges flush with the opposite ends of the body sides and substantially perpendicular thereto, said ledges extending around three sides of the body, a single cover flap at each end of the body, integral with the fourth side thereof, and foldable so as to seat on said ledges to completely close the opposite ends of the container, and further characterized by the provision in one of said cover flaps of a tab foldable out of the plane thereof along a score on said cover flap so positioned that the free edge portions of the tab seat on the adjacent ledge.

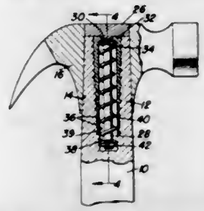


2,589,046
CLAW HAMMER WITH EXTENSIBLE FULCRUM
Harvey H. Brown and Bert Ned Reed, Mountain City, Nev., assignors to Nailmaster, Inc., a corporation of Nevada
Application July 5, 1949, Serial No. 103,146
4 Claims. (Cl. 254—26)



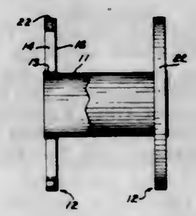
1. A claw hammer having a head and a handle, one end of said handle having a bore, said head having a socket on one side thereof to receive said one end and an end recess in the head on one side thereof opposite said socket, said head having an apertured wall between said recess and said socket, cuneiform members on said wall having the sharpened ends extending into said socket to spread said end of the handle into tight engagement with the head, a fulcrum member having a portion thereof seated in retracted position in said recess and having a shank extending through said aperture in said wall into said bore, retaining means for said fulcrum member in an alternative extended position, and means to bias said shank and fulcrum member into retracted position.

2,589,047
CLAW HAMMER WITH EXTENSIBLE FULCRUM
Harvey H. Brown, Mountain City, and Leland W. Williams, Owyhee, Nev., assignors to Nailmaster, Inc., a corporation of Nevada
Application July 31, 1950, Serial No. 176,902
4 Claims. (Cl. 254—26)



1. In a claw hammer, a handle having a bore in one end and a head tightly secured on said one end of the handle, an elongated tubular bushing secured in said bore, a pin extending rotatably and slidably into said bushing, a coiled spring coaxial with said pin and within said bushing and engaging said pin and bushing to bias said pin against withdrawal from the bushing, a fulcrum member carried by the outer end of said pin, and means to hold the fulcrum member extended outwardly from said head in a direction axial of said pin and against the action of said spring.

2,589,048
REEL
Arthur A. Bureau, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 11, 1947, Serial No. 791,013
5 Claims. (Cl. 242—77)

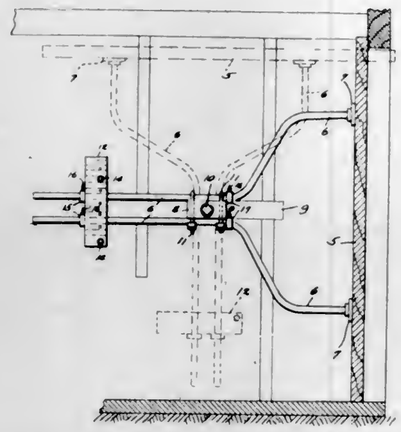


1. A welded reel construction comprising a cylindrical drum, an annular band bonded to and in telescoping engagement with the end of said drum, hollow spokes bonded at their inner ends to the annular band and extending radially therefrom, said spokes being rectangular in cross section and having one of their walls coextensive with the spokes and axially inwardly directed and arranged in a plane perpendicular to the axis of said drum, an annular head sheet engaging substantially the entire length of said inwardly directed walls of said spokes and bonded thereto, and a tire member encircling said spokes and said head sheet and bonded thereto.

2,589,049
GARAGE DOOR HANGER
Welsey A. Caldwell, Manhattan Beach, Calif.
Application February 10, 1947, Serial No. 727,512
1 Claim. (Cl. 16—1)

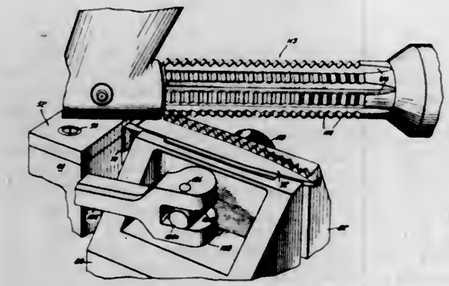
In a hanger for an overhead opening garage door, the combination, with a pair of spaced arms mounted to rotate in a vertical plane and adapted

to carry a garage door on one end of each of the arms, of counterweights for said door and mounted upon the arms, said counterweights being of identical though opposite formation and being respectively of flat, rectangular formation, the counterweights being disposed in spaced vertical planes, said arms being extended between the counterweights and the counterweights being



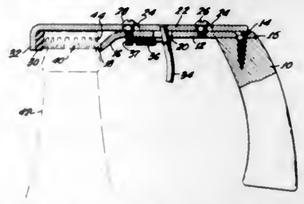
elongated vertically when the door is closed, the inner surface of each counterweight being formed with a plurality of parallel, transverse grooves spaced vertically of the counterweight when the door is closed, selected pairs of the opposed grooves of the counterweights being adapted to receive the arms, and means clamping the counterweights detachably to said arms.

2,589,050
METHOD OF AND APPARATUS FOR MAKING PINKING SHEARS
Bert G. Carlson, Gates Mills, and John Borcz, Fremont, Ohio, assignors to The Henkel-Clauss Company, Fremont, Ohio, a corporation of Ohio
Application May 19, 1947, Serial No. 749,002
10 Claims. (Cl. 76—104)



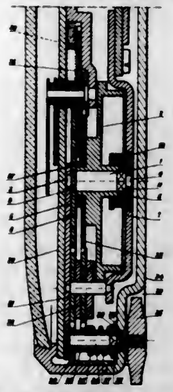
1. A method of making one of a pair of pinking shears which comprises forming a shear blank having a hub portion with a pivot hole therethrough and a jaw portion formed with a flange extending from said jaw generally parallel to the axis of said pivot hole and forming teeth in said flange by rotating said jaw about said axis through tangential engagement with a cylindrical cutting tool having circumferential serrations while axially rotating said tool.

2,589,051
CROWN CAP LIFTER WITH RECIPROCATING ELEMENTS
William A. Carter, Altadena, Calif.
Application November 18, 1948, Serial No. 60,685
2 Claims. (Cl. 81—3.46)



1. In a bottle opener for removing a crown cap from a bottle, a pistol-grip handle, a first bar extending forwardly from the upper end of said handle, said bar having a lifting toe offset downwardly and extending forwardly therefrom, said bar being provided with a longitudinal slot therein intermediate the ends thereof, a second bar having a holding element on one end thereof, means slidably securing said second bar to said first bar on the upper side thereof with said holding element extending downwardly, a spring normally urging said bars apart longitudinally whereby said elements may be placed on opposite sides of said crown cap, and a trigger-like element attached to said second bar extending downwardly through said slot, said handle and said trigger-like element being mutually spaced to be pressed toward each other by one hand against the force of said spring whereby said crown cap is removably engaged by said holding and lifting elements.

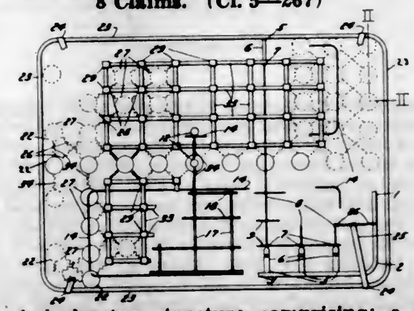
2,589,052
WATCH WINDING AND SETTING MECHANISM
Eugène Alexandre Chiffelle, Besancon, France
Application March 6, 1945, Serial No. 581,203
In France January 5, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires January 5, 1964
4 Claims. (Cl. 58—59)



1. In a wrist watch, the combination with hands, a pivot for said hands, a dial associated therewith, a frame plate carrying said dial and hands, a barrel on said frame plate controlling the hands, of a hand-controlled winding and setting mechanism including a gearing adapted to wind the barrel, a gearing adapted to set the hands, two pinions of equal moduli lying in superposed planes and engaging respectively the two

said gearings, a spindle parallel to the hand pivot, a casing carrying the different above-mentioned parts provided with a recess in the surface opposed to the dial and frame plate and in which the spindle is revolubly mounted, the spindle being adapted to slide longitudinally between two predetermined positions inside the casing, the innermost position of the spindle being its normal position nearer the frame plate than in its outermost position in which the spindle is displaced from its normal position, a pinion keyed to said spindle and adapted to mesh selectively with the first, barrel-controlling pinion and with the second, hand-setting pinion according as to whether the spindle is in the innermost or outermost extreme position and a control knob carried by the slidable revoluble spindle on the outside of the casing and housed normally inside the recess when the spindle is in the first innermost above defined position for which rotation of the knob provides a winding of the barrel, said knob when drawn outwardly out of the casing recess bringing the spindle into its second outermost position for which rotation of the knob provides a setting of the hands.

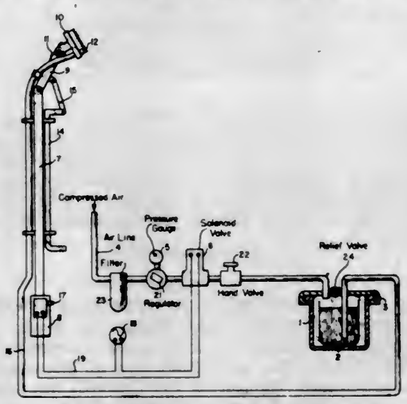
2,589,053
BEDSPRING
Raymond K. Clark, Mansfield, Ohio, assignor to The Perfection Bed Spring Company, Mansfield, Ohio, a corporation of Ohio
Application March 10, 1947, Serial No. 733,528
8 Claims. (Cl. 5—267)



1. A bedspring structure comprising; a base frame, a plurality of rows of coil springs mounted on said frame with their axes perpendicular to the plane of said frame and terminating in upper ends forming a second plane parallel to said base frame, a marginal frame connected to the upper ends of the border springs mounted on said base frame, a first pair of lattice frames in said second plane between the upper ends of said springs inside said marginal frame, and a second pair of lattice frames in a third plane parallel to and between said base and second planes and connected to inside springs between their ends.

2,589,054
APPARATUS FOR INTERNALLY COATING CATHODE-RAY TUBE ENVELOPES
Philip W. Conway and Thaddeus J. Hajduk, Chicago, Ill., assignors to The Rauland Corporation, a corporation of Illinois
Application December 31, 1949, Serial No. 136,372
1 Claim. (Cl. 118—11)

Apparatus for applying a coating solution to the internal surface of a vitreous envelope comprising: a pressure chamber containing said coating solution; an air line extending into said chamber for supplying compressed air thereto; an electrically operated valve in said air line for controlling the flow of compressed air to said chamber; a turn-table including means for removably supporting said envelope with its longitudinal axis aligned with the rotational axis of said turn-table for rotation of said envelope by said turn-table; a manually manipulable mechanism including, a support rod, a handle affixed to one end of said rod, a mechanical link pivoted to the other end of said rod for rotation with respect thereto, a brush fixed to the free end of



said link for insertion into said rotatable envelope to apply said coating to said internal surface, and a slidable actuating arm extending parallel to said rod and coupled to said link for manipulating said brush; a further line extending from said chamber to said brush for supplying said solution to the surface thereof; and a switch mounted on said handle for actuating said electrically operated valve.

2,589,055
MIXTURES COMPRISING POLYACRYLONITRILE AND POLYALKYL α-ACYLAMINOACRYLATES AND ARTICLES OBTAINED THEREFROM
Harry W. Coover, Jr., Kingsport, Tenn., and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 29, 1950, Serial No. 159,145
19 Claims. (Cl. 260—32.6)

1. A resinous composition comprising from 60 to 90 per cent by weight of a polymer containing at least 95 per cent by weight of acrylonitrile in the polymer molecule, and from 40 to 10 per cent by weight of a polymer containing in the polymer molecule at least 95 per cent by weight of an alkyl α-acylaminoacrylate represented by the following general formula:

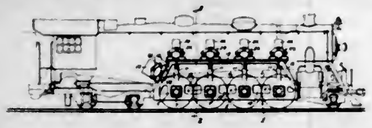
$$CH_2=C(-NHCO-R_1)-COOR$$

wherein R represents an alkyl group of the formula C_nH_{2n+1}, wherein n represents a positive integer of from 1 to 4, and R_1 represents an alkyl group of the formula C_mH_{2m+1}, wherein m represents a positive integer of from 1 to 3.

2,589,056
LOCOMOTIVE CONSTRUCTION
Harry T. Corbell, Short Lane, Va.
Application June 14, 1948, Serial No. 32,777
6 Claims. (Cl. 105—37)

1. In locomotive construction, an integral chassis comprising spaced longitudinal side mem-

bers each comprising upper and lower chord members and struts connecting said chord members, the lower chord member being unbroken in its entire length, perimetrically closed openings in certain struts between said chord members for receiving journal boxes, a series of longitudinally spaced transverse upwardly concave



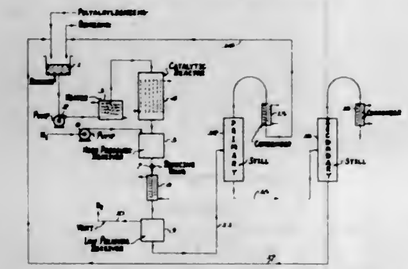
ribs bridging said side members having their bight portions connecting the upper chord members of said side members and having their end portions terminating in longitudinal sills, said ribs and sills defining a cradle for receiving the lower part of a boiler spring supported upon said sills.

2,589,057

ALKYLATION-DEALKYLATION PROCESS

Ben Bennett Corson and Walter M. Kutz, Pittsburgh, Pa., assignors to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware

Application August 12, 1948, Serial No. 43,908
23 Claims. (Cl. 260—671)



1. In a process for effecting the transfer of an alkyl group from one aromatic nucleus to another in which the donor reagent is a polysubstituted aromatic compound at least one substituent of which is an alkyl group regeneratable as an olefin and the acceptor reagent is an alkylatable aromatic compound, and in which the transfer is effected by subjecting a mixture of the donor and acceptor reagents to catalysis over an alkylating-dealkylation catalyst, the steps of bringing a mixture of the donor and acceptor reagents which yield the same product through dealkylation of the donor reagent and alkylation of the acceptor reagent and in which the proportions are at least two and one-half mols of acceptor reagent for each mol product equivalent of the donor reagent in contact with said catalyst at a reactive temperature below about 450° C. while maintaining a pressure between about 15 and 60 atmospheres.

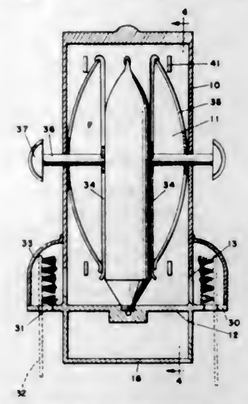
2,589,058

PASTE AND CREAM TUBE DISPENSER HAVING PRESSURE JAWS AND BRUSH HOLDER

Robert R. Corson and Harry Schlosser, Haddon Heights, N. J.

Substituted for abandoned application Serial No 620,106, October 3, 1945. This application Apri 18, 1947, Serial No. 742,378
1 Claim. (Cl. 222—93)

A device of the kind described, comprising a casing having a bottom portion provided with a discharge passage opening centrally of and on the bottom portion of said casing and an outlet opening in the front wall, an inclined dispensing passage forming a communication between the discharge opening and the outlet opening, a cut-off gate for the dispensing passage slidably fitted to the bottom portion for vertical movement in relation to said last said passage and said outlet opening, said gate having a dispensing aperture therein, a leaf spring fixed to the bottom of the casing and engaging the lower edge of the gate for retaining the gate in cut-off position with the outlet aperture in the gate out of alignment with the outlet opening, a spring tension friction latch in the bottom portion above the discharge passage opening therein adapted to engage the gate and latch the gate in an opening position with



the outlet aperture in alignment with the outlet opening, a collapsible tube removably fastened to the bottom portion for the discharge of its content to the dispensing passage, presser jaws positioned on opposite sides of said collapsible tube, bowed leaf like tension springs engaging said casing and extending longitudinally thereof and said springs engaging the ends of said pressure jaws for holding the jaws engaged with the tube, plungers attached to the pressure jaws centrally thereof and extending outwardly of said casing, knobs on the outer ends of said plungers for the manual operation of said plungers for the collapsing of said tube, a changeable adapter for removably connecting the tube with the bottom portion of the casing in alignment with the discharge passage opening and protected brush holders exteriorly associated with the casing.

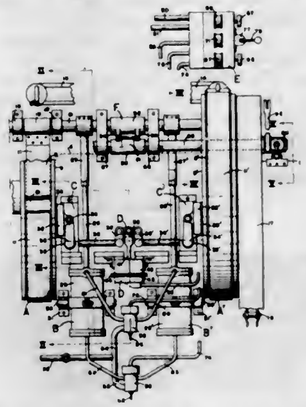
2,589,059

BRAKING DEVICE

Robert R. Crookston, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application August 19, 1946, Serial No. 691,485
2 Claims. (Cl. 188—151)

1. A means for applying a braking force to a hoisting drum mounted on a frame for rotation about a fixed axis comprising, in combination, a brake band provided with a first frictional lining adapted to engage with a surface defined by the hoisting drum, a first power unit comprising a cylinder, a member within the cylinder cooperating with the cylinder to define a first and a second chamber and arranged for movement with respect thereto, a first piston rod carried by said member and mechanically linked to the brake band for applying the brake band to the drum when in a first position and for releasing the brake band from the drum when in a second position, a second power unit comprising a housing, a second member mounted therein for movement relative thereto, a second piston rod attached to the second member for movement therewith, a second friction lining of small area, a means mechanically linked to the second piston rod arranged for moving said second friction lining to a first position to engage said lining with the drum and to a second position for disengaging the friction lining from the drum, a fluid system comprising an inlet line fluidly connected with a compressible fluid under superatmospheric pressure, a conduit including a valve fluidly connecting said inlet line with the housing



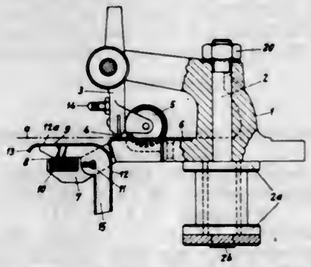
of the second power unit, a conduit including a valve fluidly connecting the inlet line with the first chamber of the first power unit, a double check valve defining two inlet ports and one outlet port having a valve member arranged to assume a first position allowing communication between one of the inlet ports and the outlet port and a second position allowing communication between the other inlet port and the outlet port, a conduit including a valve fluidly connecting the inlet line with one inlet port of the check valve unit, a second conduit including a valve fluidly connecting the inlet line with the other inlet port of the check valve unit and a conduit fluidly connecting the outlet port of the check valve unit with the second chamber of the first power unit.

2,589,060

TENTER CLIP

Philibert Deck, Zurich, Switzerland

Application August 30, 1949, Serial No. 113,080
In Switzerland January 13, 1949
2 Claims. (Cl. 26—62)



1. A tenter clip, for tensioning textile fabrics comprising a clamp with a movable member and a fixed member, a bracket secured to the fixed member, a spike board attached to said bracket, a roller chain link with link pin, said link pin extended outwardly from said chain link to form an extension thereof, and a strap arranged on said extension of said link pin to hold the tenter clip to said roller chain link.

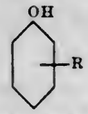
2,589,061

HYDROAROMATIC ANALOGUES OF CERTAIN HYDROPHILE HYDROXYLATED SYNTHETIC PRODUCTS AND METHOD OF MAKING SAME

Melvin De Groote, St. Louis, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Original application December 8, 1948, Serial No. 64,443, now Patent No. 2,574,536, dated November 13, 1951. Divided and this application February 3, 1949, Serial No. 74,474
7 Claims. (Cl. 260—67)

1. The hydroaromatic analogs of hydrophile synthetic products; said hydrophile synthetic products being oxyalkylation products of (A) an alpha-beta alkylene oxide having not more than 4 carbon atoms and selected from the class consisting of ethylene oxide, propylene oxide, butylene oxide, glycide and methylglycide, and (B) an oxyalkylation-susceptible, fusible, organic solvent-soluble, water-insoluble phenol-aldehyde resin; said resin being derived by reaction between a difunctional monohydric phenol and an aldehyde having not over 8 carbon atoms and having one functional group reactive toward said phenol; said resin being formed in the substantial absence of phenols of functionality greater than 2; said phenol being of the formula



in which R is a hydrocarbon radical having at least 4 and not more than 12 carbon atoms and substituted in one of the positions ortho and para; said oxyalkylated resin being characterized by the introduction into the resin molecule at the phenolic hydroxyls of a plurality of divalent radicals having the formula $(R_1O)_n$, in which R_1 is a member selected from the class consisting of ethylene radicals, propylene radicals, butylene radicals, hydroxypropylene radicals, and hydroxybutylene radicals, and n is a numeral varying from 1 to 20; with the proviso that at least 2 moles of alkylene oxide be introduced for each phenolic nucleus.

2,589,062

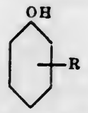
OXYALKYLATED DERIVATIVES OF FURFURAL-SUBSTITUTED PHENOL RESINS

Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application January 6, 1950, Serial No. 137,295
5 Claims. (Cl. 260—53)

1. Hydrophile synthetic products; said hydrophile synthetic products being oxyalkylation products of (A) an alpha-beta alkylene oxide having not more than 4 carbon atoms and selected from the class consisting of ethylene oxide, propylene oxide, butylene oxide, glycide and methylglycide; and (B) an oxyalkylation-sus-

ceptible, fusible, organic solvent-soluble, water-insoluble, low-stage phenol-furfural resin; said resin being derived by reaction between a difunctional monohydric phenol and furfural under alkaline conditions; said resin being formed in the substantial absence of phenols of functionality greater than two; said phenol being of the formula:



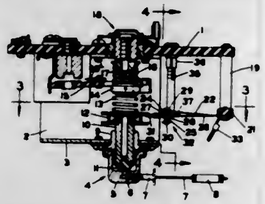
in which R is a hydrocarbon radical having at least 4 and not more than 12 carbon atoms and substituted in one of the positions ortho and para; said oxyalkylated resin being characterized by the introduction into the resin molecule at the phenolic hydroxyls of a plurality of divalent radicals having the formula $(R_1O)_n$, in which R_1 is a member selected from the class consisting of ethylene radicals, propylene radicals, butylene radicals, hydroxypropylene radicals, and hydroxybutylene radicals, and n is a numeral varying from 1 to 20; with the proviso that at least 2 moles of alkylene oxide be introduced for each phenolic nucleus.

2,589,063

THERMOSTATIC SWITCH

Earnest J. Dillman, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application June 22, 1949, Serial No. 100,709
6 Claims. (Cl. 200—140)



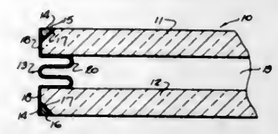
1. In an automatically operated switch structure, a power element including an operating member and a thermally expansive fluid for moving said member, said power element being operable upon thermal expansion of said fluid to move said member in one direction, a spring engaging said member and urging the same in the opposite direction, an actuating member arranged for movement by said operating member and having oppositely facing electrical contact surfaces, a pair of movable switch contact arms each spring biased for contact with the respective opposite contact surfaces of said actuating member and operable to move with said actuating member upon movement thereof, a first stop member engageable with one of said contact arms upon predetermined movement of said actuating member in said one direction to stop further movement of said arm and cause it to break contact with said actuating member, a second stop member engageable with the other of said contact arms upon predetermined movement of said actuating member in said opposite direction to stop further movement of said arm and cause it to break contact with said actuating member, and said spring being operable in the event of power element leakage to move said operating member and said actuating member through said predetermined movement in said opposite direction.

2,589,064

MULTIPLE SHEET GLAZING UNITS

John L. Drake, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application February 26, 1946, Serial No. 650,326
2 Claims. (Cl. 20—56.5)



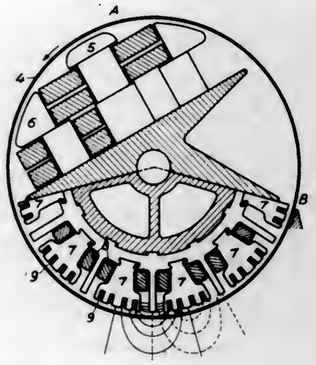
1. A multiple sheet glazing unit comprising a plurality of glass sheets arranged in spaced face to face relationship, the outside sheets of said unit being provided with continuous outside bevels therearound, metallic coatings on said bevels, separator means having flanges extending around the edges of said glass sheets and a portion thereof lying between said sheets and continuous strips of solder triangular in cross section securing the flanges of said separator means to said metallic coatings.

2,589,065

MAGNETIC ORE SEPARATOR

Ludwig Dreyfus, Vasteras, Sweden, assignor to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation

Application March 6, 1948, Serial No. 13,457
In Sweden March 12, 1947
2 Claims. (Cl. 209—226)



1. Magnetic ore separator comprising magnetic pole pieces, windings adapted to create a unidirectional flux and a superimposed alternating flux having pole pitches through said pole pieces, the magnetic axes of said fluxes being mutually displaced in space by a substantial angle, a non-magnetic diaphragm capable of moving in front of said pole pieces, and means for feeding a pulverulent material on to said diaphragm.

2,589,066

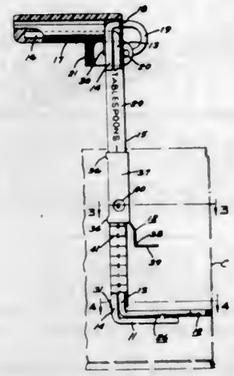
DISPENSER FOR LARD AND SIMILAR SEMISOLIDS

Lee Norman Duncan, Oklahoma City, Okla.

Application November 16, 1950, Serial No. 195,953
5 Claims. (Cl. 31—11)

1. A dispenser for lard or similar material including a vertically movable cutting element in the form of a sector including a curved portion with substantially radial portions defining the area of a slug of material, and lateral cutting

elements including a pair of rods extending substantially under said radial portions of said vertically movable cutting sector and pivoted ad-



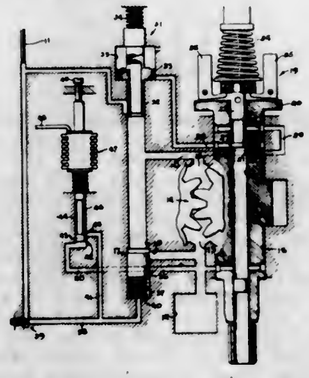
jacent to the axis of the vertically moving cutting element, said lateral cutting elements providing a support following their cutting operation.

2,589,067

HYDRAULIC CONTROL SYSTEM

Francis L. Erickson, Rockford, Ill., assignor to Woodward Governor Company, Rockford, Ill., a corporation of Illinois

Application May 26, 1947, Serial No. 750,561
7 Claims. (Cl. 103—11)



1. A hydraulic control system having, in combination, a container for a body of fluid, a supply passage, a power driven pump operable to withdraw fluid from said container and deliver the same to said supply passage, a fluid space, a valve operable to control the flow of fluid from said supply passage to said space, means for detecting changes in a main control force and applying the same to said valve to vary said fluid flow, a valve for by-passing fluid from said supply passage to said container to regulate the fluid pressure maintained in said passage, a piston slidable in a cylinder to actuate said by-pass valve, spring means urging said piston in a direction to close said by-pass valve, means providing a fluid connection between said space and said cylinder to create a fluid pressure in the latter for supplementing said spring in loading said by-pass valve, said connection including a restriction, means providing a by-passage between said cylinder and said container including a normally closed valve, and means for detecting changes in a secondary control force and applying the latter force to said last mentioned valve to open the same when the secondary force deviates beyond a predetermined value.

2,589,068

BAR ACCESSORY HAVING A SIPHON FOR DISPENSING A PREDETERMINED QUANTITY OF LIQUID

John O. Evans, Jr., Washington, D. C.

Application July 28, 1947, Serial No. 764,053
8 Claims. (Cl. 226—26)



1. A bar accessory for dispensing a predetermined quantity of liquid into a container comprising a cup providing a sump into which a liquid received in the cup will drain, and siphon means having a shorter leg communicating with said sump at substantially the lowest point thereof, the shorter leg of said siphon means rising to a level near but below the rim of said cup and the longer leg of said siphon means depending to a discharge point substantially below the point of communication of the shorter leg of said siphon means with said sump, said longer leg curving from and towards said cup and being sufficiently spaced from said cup to provide an opening for the insertion of fingers so that the longer leg may serve as a handle for the bar accessory.

2,589,069

MAKING RESINS FROM OLEFIN POLYMERS AND ORGANIC ACID ANHYDRIDE

Egi V. Fasce, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

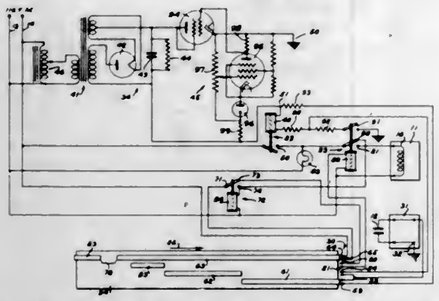
No Drawing. Application June 4, 1948, Serial No. 31,202
5 Claims. (Cl. 260—78.5)

1. The process for preparing a light colored hard resin from an oily olefin polymer having a boiling range of about 500–525° F. and an iodine number of about 50 to 110, said polymer containing a major proportion of cyclic constituents and containing at least some cyclic diolefins, and consisting essentially of compounds having 14 to 16 carbon atoms, which comprises reacting said polymer with a dibasic organic acid anhydride in the presence of aluminum chloride at a temperature of about 150–250° F., and separating from the resulting reaction products a portion consisting of a hard light-colored resin having a melting point of about 100–150° F.

2,589,070
ELECTRICAL BREAKDOWN TESTING APPARATUS

Stewart E. Frisbie, Danville, and Gilbert E. Weeks, Chicago, Ill., assignors, by direct and mesne assignments, to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application August 30, 1948, Serial No. 46,792
5 Claims. (Cl. 209—81)



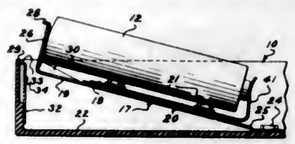
1. An apparatus for testing condensers for electrical breakdown, which comprises a source of test voltage, a first timed switching means for connecting said source to a condenser under test for a first time interval, a first relay having a coil and a normally open contact, a second timed switching means operable at the expiration of the first time interval for connecting said source through the coil of said first relay and through said condenser for a second time interval, a second relay having a coil, a normally closed contact and a normally open holding contact, a third relay having a coil in series with the closed contact of the second relay, a normally closed contact in series with the contact of the first relay and the second relay coil, a first normally open contact and a second normally open contact, a third timed switching means operable after the expiration of the second interval for connecting the third relay coil to the normally closed contact of the second relay, a calibrating resistor having a predetermined value, the second relay being operable in response to the closing of the normally open contact of the first relay when the third relay is unoperated, the third relay being operable in response to operation of said third timed switching means when the second relay is unoperated, the first relay being operable in response to current flow through the condenser if its resistance is at or below said predetermined value and also being operable through said calibrating resistor in response to the closing of the second normally open contact of the third relay, and an electromagnetic acceptance device operable from a normal rejecting position in response to the contemporaneous closing of the normally open contact of the first relay and the first normally open contact of the third relay to accept the condenser under test.

2,589,071
BATTERY HOLDER

Anthony A. Galasso, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 18, 1950, Serial No. 150,451
9 Claims. (Cl. 136—173)

1. In a case for a battery powered hearing aid, a box-like walled cavity for receiving a battery, a holder for said battery having a resilient portion fixed to a wall of said cavity and having its battery holding portion normally urged about its fixed resilient portion to raise an end of the battery out of the cavity, a latch portion

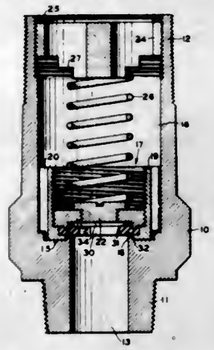


formed on one end of said holder, and means fixed to another wall of said cavity for cooperating with the latch portion to hold the battery in the holder wholly within the cavity.

2,589,072
RELIEF VALVE

Owen L. Garretson, Roswell, N. Mex., assignor to Phillips Petroleum Company, a corporation of Delaware

Application September 20, 1948, Serial No. 50,105
6 Claims. (Cl. 137—53)



1. A relief valve comprising in combination a body having an inlet and an outlet, said body having a valve seat around said inlet, a raised edge on said valve seat, a valve head, means urging said valve head against said seat, a resilient washer mounted on said valve head to contact said raised edge and be deformed thereby, said head being recessed behind said washer at least as far as the interior of said raised edge, guide means guiding said head in said body, means to adjust the force of said urging means, said head contacting said seat to limit deformation of said washer by said raised edge, a conduit in said head communicating between said inlet and said outlet, a fusible plug closing said conduit and said recessed portion communicating with said inlet through said washer.

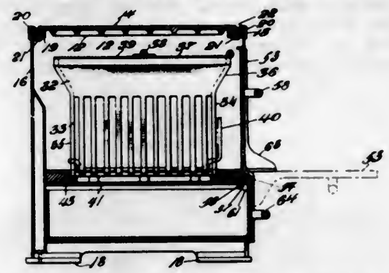
2,589,073
COOKING STOVE

Maxon E. Gilbert, North Scituate, R. I.

Application August 22, 1947, Serial No. 770,136
5 Claims. (Cl. 126—2)

1. A cooking stove having top, side, front and rear walls providing a chamber, said front wall having an opening therein, said top wall providing a grill plate, a plurality of spaced guides in said chamber beneath said grill plate, a fire box, a support for said fire box slidably mounted on said guides for movement in and out of said chamber through said opening, an ash drawer slidably mounted beneath said support, a stop on said support for engagement by said drawer, and a closure for said opening hinged to said support

and movable therewith, said closure having a portion thereof engaging said drawer and with

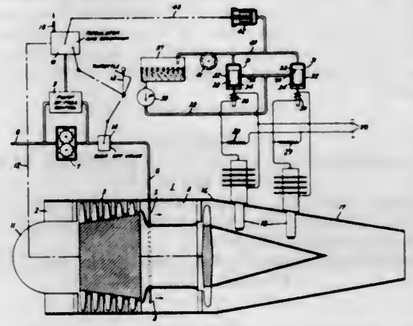


said stop moving said drawer with said support when moving the same out of said chamber.

2,589,074
CONTROL FOR GAS TURBINE POWER PLANTS

Ralph C. Goodwin, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application February 11, 1950, Serial No. 143,715
3 Claims. (Cl. 236—84)



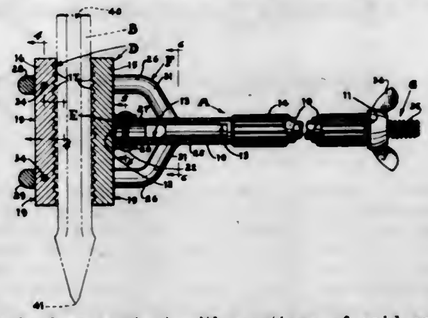
1. A system for controlling a gas turbine power plant in accordance with a desired temperature of operation by varying the fuel input, comprising a differential thermal expansion device for detecting variations from the desired temperature, means for converting the differential thermal expansion to derive a pressure variation therefrom, an electrical resistance variable in response to the varying pressure from said means, a source of electrical energy for supplying a voltage across said resistor proportional to the resistance thereof, a solenoid operated fluid control valve connected across said resistor and operable from a closed position to an open position upon increase of said voltage, a hydraulic fluid pressure control system the pressure of which is controlled by the degree of opening of said valve, a spring restrained hydraulic actuator positioned in accordance with the pressure in said system, an input fuel control means controllable in accordance with the position of said actuator.

2,589,075
TOOLHOLDER FOR IMPACT TOOLS

Richard C. Gravis, Austin, Tex.

Application February 21, 1950, Serial No. 145,490
4 Claims. (Cl. 81—1)

1. In a tool holder, an elongated handle portion; a first elongated jaw portion having a pair of longitudinally-extending end faces; means securing the jaw portion to the handle portion, a second elongated jaw portion having a pair of longitudinally-extending end faces and an outer side face; means movably supporting the second jaw portion upon the handle portion to move selectively toward and away from said first jaw portion, including a pair of widely spaced-apart yokes, each yoke having substantially parallel

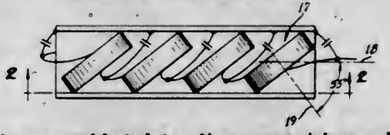


arms in face contact with portions of said end faces of said second jaw portion and a bight in face contact with a portion of said side face, said arms slidable over portions of said first-named end faces; means securing said yokes to said second jaw portion; and means for causing relative movement between the two jaw portions and retaining them in selected fixed positions spaced one from the other.

2,589,076
FOLDED DELAY LINE

Noel W. Hancock and David O. McCoy, Cedar Rapids, Iowa, assignors to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application June 9, 1950, Serial No. 167,188
2 Claims. (Cl. 178—44)



1. An assembled delay line comprising, a holding bracket of a generally H-shape, a plurality of inductance coils mounted in said upper and lower holding portions of said bracket with the axes of said coils forming a 55 degree angle with the longitudinal axis of said bracket, a first input lead connected to one of said coils, the output of said first coil connected to the input of a second coil and each succeeding coil connected to the input of the preceding coil, a condenser connected between the junction of each pair of coils and the holding bracket, a second lead joining the last of the coils in said first holding bracket to the first of said coils in said second holding bracket, and a capacitor connected between said second lead and said bracket.

2,589,077
WHEEL RERAILER

James Bliss Haskell, Huntington, W. Va., assignor to West Virginia Steel and Manufacturing Company, Huntington, W. Va., a corporation of West Virginia

Application August 1, 1949, Serial No. 107,965
9 Claims. (Cl. 246—423)

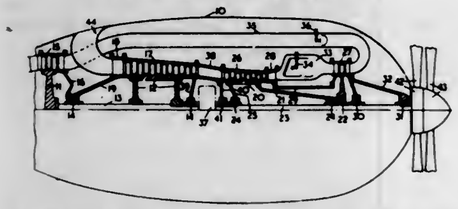
1. In a turnout, the combination with the outside straight stock rail, the inside curved stock rail, the straight and curved closure rails, the switch points, and the bolts forming a part of

means swingably attaching said switch points to said closure rails, of a rerailer disposed opposite the juncture of each switch point and the connected closure rail and filling the converging space between the respective closure rail and the adjacent stock rail, each said rerailer having an upwardly inclined receiving end and a top onto



which a wheel can be drawn from said end to ride over said top and be rerailed, and an upright wall opposing the respective switch point and closure rail juncture and equipped with recesses extending down through its lower edge and adapted to straddle and contact parts of the respective bolts as the sole means for retaining the rerailer against longitudinal movement.

2,589,078
AIRCRAFT PROPULSION POWER PLANT
William Rede Hawthorne, Silver Spring, Md., assignor to Power Jets (Research and Development) Ltd., London, England, a British company
Application March 27, 1945, Serial No. 585,167
In Great Britain March 29, 1944
2 Claims. (Cl. 60—39.17)



2. In an aircraft propulsion plant of the double compound gas turbine type which includes a high-pressure turbine, high-pressure and low-pressure compressors, and a low pressure turbine all in axial alignment along the intended direction of flight, a combustion chamber and ducting defining a path from the compressors to the combustion chamber and from the combustion chamber to the turbines, the low-pressure turbine being in the rear end and the compressors being between the turbines, the improvement that comprises a tractor propeller at the front end of the plant and shaft extending rearwardly from the propeller along the plant axis, a shaft extending forwardly from the low-pressure turbine along the same axis, and reduction gearing constituting a driving connection from said turbine shaft to said propeller shaft, said gearing being located along the plant axis intermediate the remote axial extremities of the compressors.

2,589,079
COMBINATION LADDER
Charles R. Heaivilin, Indianola, Iowa, assignor to Wallace L. Speicher and Gerald W. Speicher, both of Indianola, Iowa
Application September 17, 1948, Serial No. 49,801
2 Claims. (Cl. 228—25)

1. In a combination ladder, a section having two uprights and a plurality of connecting rounds, a second section having two uprights and a plurality of connecting rounds; said two uprights of said second section being closer together than are the two uprights of said first section, a horizontal U-shaped bracket on the upper end portion of said first section capable



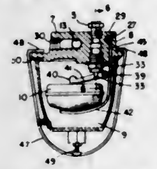
of embracing said second section, a friction reducing member rotatively embracing the major portion of said horizontal U-shaped bracket, and semi-circular notches in the two uprights of said second section capable of selectively engaging the uppermost round of said first section at times.

2,589,080
POWER-OPERATED TELESCOPING MAST AND BRACES
George Heinish, Akron, Ohio, assignor to The Star Drilling Machine Company, Akron, Ohio, a corporation of Ohio
Application November 5, 1949, Serial No. 125,684
41 Claims. (Cl. 189—14)



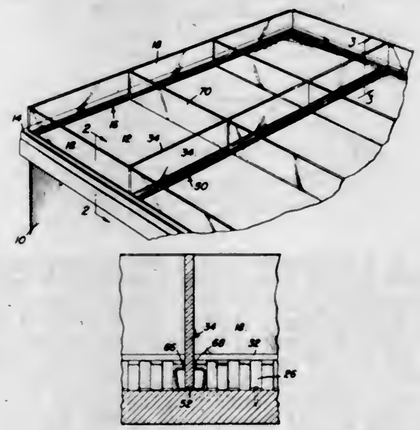
5. In a drilling machine including a mast formed with lower and upper relatively movable telescoping sections, diagonal braces pivoted at their upper ends to said upper mast section adjacent the upper end thereof, a horizontal bracing member connected at one end to the lower ends of said diagonal braces and at its opposite end to said lower mast section adjacent the upper end of the latter, additional diagonal braces pivoted at their upper ends to the first named end of said horizontal bracing member and adapted to have their lower ends secured to a support, means providing for movement of said upper mast section relatively of said lower mast section, together with said horizontal bracing member and all of said diagonal braces without disconnecting said horizontal bracing member from said lower mast section, said means including a slip-joint in the said connection at one end of said horizontal bracing member, said means further including power mechanism for raising and lowering said upper mast section, said horizontal member and all of said diagonal braces as a unit.

2,589,081
LUBRICATING DEVICE
William A. Hertz, Shaker Heights, Ohio
Application July 23, 1949, Serial No. 106,375
2 Claims. (Cl. 123—196)



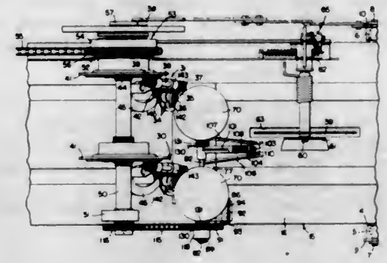
1. In a lubricating device of the character described, the combination of a lubricant-containing bowl, a lubricant reservoir communicating with said bowl, a float mounted movably in said bowl, a valve interposed between said reservoir and said bowl and operatively connected to said float, whereby to control the flow of lubricant from said reservoir to said bowl in response to changes in the level of lubricant in said bowl, a vacuum line communicating with said bowl, and a vent tube mounted in said bowl in underlying relationship to said float with the outlet end thereof substantially at the center of said float and effective to discharge air into said lubricant in response to the decreased pressure in said bowl, said float being effective to disperse said discharged air whereby to atomize said lubricant and cause it to be carried into said vacuum line.

2,589,082
COUNTER BIN CONSTRUCTION
Henry J. Hickey, Wollaston, Mass.
Application February 17, 1949, Serial No. 76,917
11 Claims. (Cl. 312—140.3)



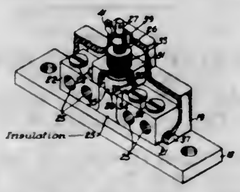
1. An outer wall or partition support for a counter display bin comprising an integral elongated strip of rigid material having a horizontal base flange adapted for disposition upon the upper face of the counter top, a plurality of angular outwardly bulged tongues vertically extending from one edge of said base flange, said tongues being spaced apart forming slots for receiving the lower end edges of transverse partitions, and a longitudinally disposed vertical flange connecting the upper ends of the tongues and adapted to hold the lower edge of a partition against an opposing flange.

2,589,083
SLACK PULLER FOR BALE TIERS
George B. Hill, Ottumwa, Iowa, assignor to Deere Manufacturing Co., a corporation of Iowa
Application May 15, 1947, Serial No. 748,228
19 Claims. (Cl. 100—20)



1. In a baler, a slack pulling device, an actuating shaft therefor, an arm fixed on said shaft, a compression spring bearing against said arm, a support for said spring against which the latter reacts, said spring being swingable with said arm through a dead-center position for urging said arm in relatively opposite directions on opposite sides of said dead-center position, respectively, a second spring for driving said shaft, means for stressing said second spring, latch means for holding said second spring in stressed condition, and means for releasing said latch, said second spring being adapted to drive said shaft to shift said arm pulling device from one end of its range of movement through said dead-center position of said compression spring and against the pressure of the latter.

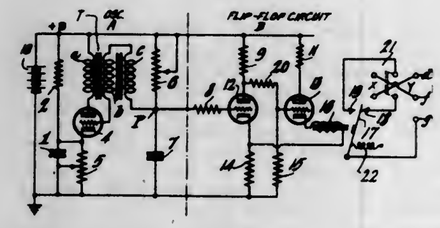
2,589,084
CURRENT TRANSFORMER SHORT CIRCUITING SWITCH
Sven A. Hoffman, Pittsburgh, Pa., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 22, 1949, Serial No. 134,383
6 Claims. (Cl. 200—155)



1. A switch including a base of insulating material, a pair of terminal lugs of conductive material on said base, an insulation member fixed to said base between said terminal lugs, a stud insulated from said terminal lugs and fixed to and extending from said insulation member, a conducting bridging member, an actuating member of insulating material in which said bridging

member is partially embedded, said bridging member movable to a first position with portions of said bridging member making contact with recesses in said terminal lugs to provide a conducting path from one of said lugs to the other of said lugs and said bridging member movable to a second position to disengage said portions from contact with said lugs and make contact with recesses in said insulation member, said actuating member provided with a bore, said stud extending through said bore and said actuating member rotatable about said stud to move said bridging member selectively into said positions, a cover of insulating material for said terminal lugs and actuating member, said cover having an opening therein through which said stud extends, and securing means mounted on said stud to selectively lock said actuating member and bridging member in said first and second positions and for retaining said cover in position.

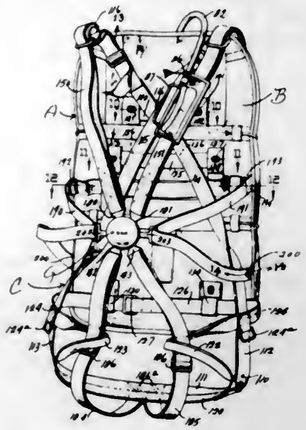
2,589,085
ELECTRONIC TIMING DEVICE
William D. Houghton, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 1, 1947, Serial No. 777,251
3 Claims. (Cl. 250—27)



1. An electronic timing system comprising a vacuum tube pulse oscillator circuit producing a repetitive sawtooth voltage, means for varying the cut-off bias on said vacuum tube, a flip-flop circuit having a predetermined tripping level and coupled to and under control of said pulse oscillator, said flip-flop circuit having a normally nonconductive electrode structure and a normally conductive electrode structure interconnected regeneratively, a connection from said normally nonconductive electrode structure to said pulse oscillator circuit, whereby the variation of the cut-off bias on said vacuum tube varies the time at which said tripping level is reached by said sawtooth voltage, and a utilization circuit coupled to said normally conductive electrode structure.
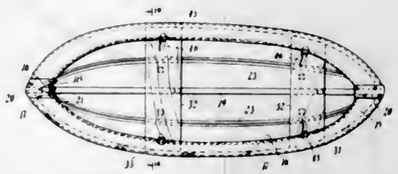
2,589,086
PARACHUTE PACK AND HARNESS CONSTRUCTION
Leslie L. Irvin, Buffalo, N. Y., assignor to Irving Air Chute Co., Inc., Buffalo, N. Y., a corporation
Original application October 23, 1945, Serial No. 623,916, now Patent No. 2,542,925, dated February 20, 1951. Divided and this application October 7, 1949, Serial No. 120,026
5 Claims. (Cl. 244—148)

1. A parachute harness comprising a U-shaped supporting sling including a seat and riser webs extending at the sides of the seat and thence extending in back crossing relation and terminating in suspension lines, flexible loops connected upon the riser webs immediately above the seat and having a back strap extending thereacross and connecting said loops and the riser webs, a single point release coupling, leg straps connected with said seat for releasable threading thru said loops and having fastener means for connection to said coupling, upper body attaching straps including suspension lines and front straps provided with fastener means for releasable connection with said coupling, adjustable adapter connection means connecting said upper body straps with the back crossing straps



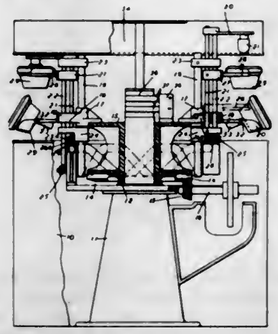
adjacent the connection of the suspension lines of the back crossing straps, V-shaped side body attaching straps including fastener means for connection with the release coupling and a back strap connection therebetween, and a longitudinally and laterally flexible pack having means for connection of the same with the back strap which connects said loops, and with the side body straps and the back connection of the side body straps and also with the crossing straps of said sling.

2,589,087
COLLAPSIBLE BOAT
Reino Jarvi, Toronto, Ontario, Canada
Application November 3, 1950, Serial No. 193,853
In Canada April 22, 1950
3 Claims. (Cl. 9—2)



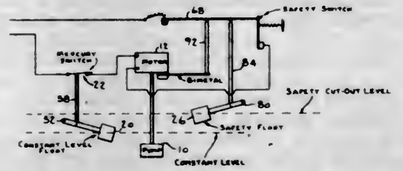
1. In a collapsible boat, a frame comprising a keel rib having bowed ends, a plurality of lateral ribs extending longitudinally thereof, said lateral ribs being arranged in pairs and the ribs of each pair being disposed at opposite sides of said keel rib, the ends of said lateral ribs being disposed to meet the respective bowed ends of said keel rib, means detachably connecting the ends of the lateral ribs to said bowed ends of the keel rib, a thwart extending between a pair of said lateral ribs, means detachably connecting said thwart to said last-mentioned pair of lateral ribs, struts pivoted to said thwart, means providing interfitting connections between said struts and the remaining ribs and means for retaining said interfitting connections including a flexible strap engaged with said remaining ribs and said thwart, and means for disengaging said strap.

2,589,088
DRYING CLAYWARE AND OTHER GOODS
John Arthur Johnson, Stoke-on-Trent, England
Application July 25, 1947, Serial No. 763,478
In Great Britain July 8, 1944
12 Claims. (Cl. 34—87)



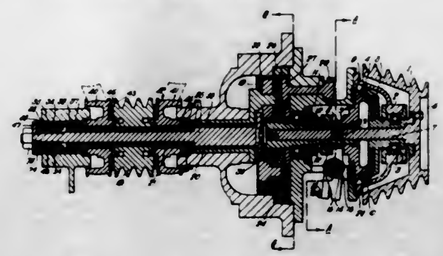
1. Apparatus for drying clay-ware including a movable carrier, a group of heater elements of heat radiating material conforming to the shape of the clay-ware pieces carried by said carrier, a source of heat for said heater elements, a second movable carrier in spaced relation with the first carrier, means on said second carrier for supporting the clay-ware pieces to be dried, means for moving said carriers, and further means for imparting movement to at least one of the carriers toward the other of said carriers whereby the heater elements are brought into spaced nested relation to the clay-ware pieces to be dried so that the radiation of heat from said heater elements is confined to the surfaces of the pieces in proximity to the heater elements.

2,589,089
MOTOR CONTROL SYSTEM FOR FUEL PUMPS
Roy W. Johnson, Milwaukee, Wis.
Application May 5, 1949, Serial No. 91,539
4 Claims. (Cl. 318—482)



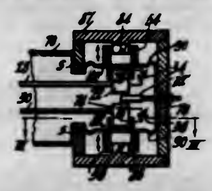
1. In a fuel pumping device of the type having an electric motor driven pump for drawing fuel into a casing which contains a safety float and a main float with the main float operating a switch in the motor circuit to maintain a given level in the casing, a safety switch in the motor circuit, means connecting the safety float to the safety switch to open the switch when the level exceeds a predetermined level, means responsive to excessive motor heat to open the safety switch, and means for re-setting said safety switch to restore operation of said motor to control by the main float.

2,589,090
GEARING
Thomas Aubrey Kestell, Thurmaston, England, assignor to Power Jets (Research & Development) Limited, London, England
Application November 15, 1945, Serial No. 628,758
In Great Britain September 25, 1945
12 Claims. (Cl. 74—674)



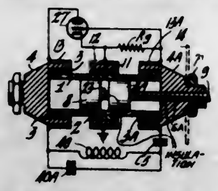
1. Gearing for driving two concentric shafts from a third shaft and for imparting a relative rotation between the said concentric shafts, comprising two gear trains of the planetary type, one of said trains including a sun gear driven by said third shaft, a planet gear carried by each of said concentric shafts and engaging with said sun gear, and a stationary internally toothed annular gear co-axial with said sun gear and engaged by each of said planet gears, and the other of said trains including said sun gear, said planet gears, and a second internally toothed annular gear rotatable relative to said stationary annular gear and arranged co-axial with said sun gear and engageable by said planet gears.

2,589,091
MECHANICAL MODULATOR
Harry Kihn, Lawrenceville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 15, 1948, Serial No. 54,668
13 Claims. (Cl. 332—30)



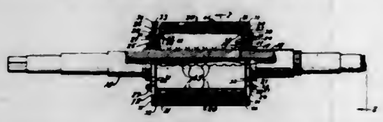
1. A modulator for a high frequency generator, comprising a resonant two conductor transmission line substantially symmetrical with respect to a central plane, two movable members each capacitively coupled to said transmission line at a point of high radio frequency potential and substantially symmetrically located with respect to said plane, each of said members being movable along an axis normal to said plane to cause a change in the respective capacity of each said member with said line, and a transducer mechanically connected to and to move said movable members toward and away from each other in response to an electrical modulating signal, whereby said signals modulate the total capacity and the resonant frequency of said line and whereby motion of said movable members in the same direction along said axis as the result of inertial, changed gravitational and the like forces leaves the total capacity with said line substantially unchanged.

2,589,092
VARIABLE CAPACITOR
Harry Kihn, Lawrenceville, and Chandler Wentworth, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 10, 1948, Serial No. 59,304
2 Claims. (Cl. 175—41.5)



1. A radio frequency tuning capacitor, comprising a ceramic tube having three spaced metallic coatings on its outer wall forming the end and intermediate fixed electrodes of said capacitor, the intermediate electrode being of greater axial length than the end electrodes and the axial spacing between adjacent coatings being substantially equal to the axial length of each of the end coatings, a separate metallic mounting means at each end of said tube in electrical contact with a corresponding one of the end coatings, a pair of longitudinally movable metallic slugs forming variable electrodes for said capacitor, each of said slugs having an axial length smaller than that of said intermediate electrode, insulating means securely joining said slugs in spaced relationship, and means for simultaneously moving both of said slugs, the arrangement being such that in the mid-position of said slugs, each end of the intermediate coating lies in a plane passing through the center of the length of a corresponding one of the slugs.

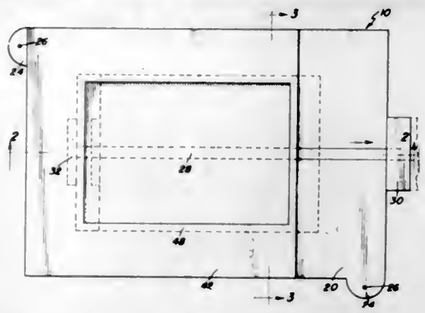
2,589,093
COILING REEL FOR STECKEL MILLS
Henning Klouman and Carl Nygren, Michigan City, Ind., assignors to Michiana Products Corporation, a corporation of Indiana
Application March 23, 1950, Serial No. 151,334
8 Claims. (Cl. 242—78)



1. A coiling reel including a pair of disks spaced axially and each having an annular series of openings, an annular series of peripheral bars extending between the disks and each having an inwardly offset stud at each end received in an opening in one of the disks, means to make the studs fast to the disks, and a driving connection between each end of each bar and the adjacent disk radially outwardly with respect to the associated stud.

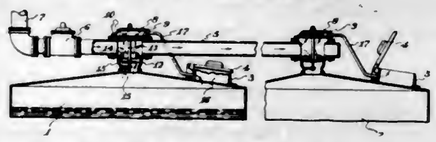
2,589,094
PHOTOGRAPHIC ENLARGING MASK
Joseph A. Konopka, Detroit, Mich.
Application January 23, 1950, Serial No. 139,993
1 Claim. (Cl. 88—24)

An enlarging easel for photographic printing comprising a base member having a longitudinal groove therein, a slide slidably mounted in said groove and having the upper face thereof disposed substantially flush with the upper base of said base member, an intermediate member secured to said base member, said intermediate member comprising a pair of substantially parallel legs and a central connecting portion, a notch in said central connecting portion, and a frame member having an aperture therethrough secured to said intermediate member, a cross bar secured to the upper face of said slide adjacent one end thereof, said cross bar slidably engaging the upper face of said base



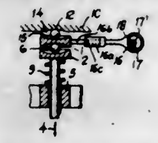
member and being selectively receivable in said notch for aiding in the withdrawal of a sheet of printing paper when said paper is placed between said frame member and said base member within the compass of said intermediate member, a cross member secured to the end of said slide remote from said cross bar, said cross member projecting above the outer face of said slide for engagement with a paper disposed thereon to aid in the insertion of the paper into said frame.

2,589,095
VAPOR CONTROL SYSTEM FOR STORAGE TANKS
Clarence D. Laidley, Tulsa, Okla.
Application October 20, 1949, Serial No. 122,484
3 Claims. (Cl. 220—85)



1. The combination with a plurality of oil storage tanks having a vacuum and pressure relief line connecting all the tanks, one end of the line leading to a stack, said line having a vacuum and pressure stack valve at the stack end thereof, said tanks having hatches and closures therefor, of means for cutting off flow from the tanks to the vacuum and relief line when any of the hatches are opened and re-establishing communication between the tanks and the relief line when the hatches are closed, said means comprising valve casings carried by the relief line and connected to the tanks, diaphragm control valves within the valve casings, said diaphragm control valves comprising diaphrams within the upper ends of the casings above the relief line and below a pressure chamber above the diaphragm, downwardly extending valve stems carried by the diaphragms and extending through valve seats within the casings, valves carried by the lower ends of the valve stems below the seats and cooperating with the seats upon upward movement of the diaphragms for cutting off communication from the interior of the tanks to the relief line upon reduction of pressure in the diaphragm chambers above the diaphragms and conduit connections between the chambers above the diaphragms and the hatch chambers, said connections forming means whereby the valve of any tank that is open will be automatically closed upon opening of its hatch cover.

2,589,096
MOTION TRANSMITTING ARRANGEMENT
Sture Gustaf Gram Landergren, Stockholm, Sweden, assignor, by direct and mesne assignments, of one-half to Sven Goran Kihlberg, Hjo, Sweden, and one-half to Industrial Devices Corporation, Detroit, Mich., a corporation of Michigan
Application February 25, 1948, Serial No. 10,777
In Sweden December 9, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires December 9, 1964
6 Claims. (Cl. 74—44)

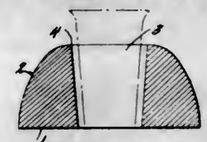


1. A motion transmitting mechanism, comprising reciprocable driving means, a primary member connected with said driving means and reciprocable thereby in a certain main direction, a secondary member guided for movement in a direction different from said main direction, a support member forming an arcuate bearing surface in rolling contact with said primary member, said primary and secondary members having opposed surfaces, a rolling member disposed between and in rolling contact with said opposed surfaces, one of said opposed surfaces being arcuately concave throughout the area thereof contacted by said roller member, whereby actuation of said driving means serves to impart oscillatory reciprocating motion to the primary member, and the roller member by rolling in contact with said opposed surfaces imparts movement to the secondary member.

2,589,097
RETARDATION OF DEVELOPMENT OF REVERSION FLAVOR IN HYDROGENATED FATS AND OILS
Willy Lange, Cincinnati, and Robert G. Folzenlogen, Columbia Township, Ohio, assignors to The Procter and Gamble Company, Ivorydale, Ohio, a corporation of Ohio
No Drawing. Application June 19, 1947, Serial No. 755,722
12 Claims. (Cl. 260—409)

1. A process of retarding the development of reversion flavor in a revertible alkali refined, filtered, and hydrogenated fatty glyceride oil which before hydrogenation contains combined fatty acids with more than two double bonds in non-conjugated position, which comprises contacting the alkali refined and filtered liquid oil prior to hydrogenation and in the substantial absence of oxygen with at least one solid material in particulate form and of the group consisting of activated alumina, active aluminum silicate, calcium hydroxide, calcium oxide, and zinc oxide, separating said solid material from the treated oil, and hydrogenating the treated and separated oil before said oil has substantial contact with oxygen.

2,589,098
PROTECTIVE ENCLOSURE FOR DRINKING CONTAINERS
Henry Coe Lanpher, Alexandria, Va.
Application July 26, 1950, Serial No. 176,050
3 Claims. (Cl. 65—12)

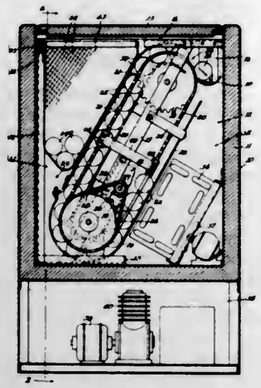


1. As an article of manufacture, a collar-like body of one-piece construction adapted when placed on a flat surface supporting a filled tumbler and in encircling relation to said tumbler to prevent overturning thereof when the tumbler is struck by a hand reaching to grasp the same and tactually to guide the hand upwardly to a position in which it may grasp the portion of the tumbler extending above the body, said body having the general shape of a flattened dome when viewed in side elevation so as to provide an outer hand-engaging surface which curves upwardly and inwardly and a substantially greater width at its bottom than at its top whereby it is stable when supported on said flat surface, and being provided with a vertical through-bore having a substantially vertical bore surface and which is oversize with relation to the tumbler, whereby said tumbler may be freely raised from or placed on said supporting surface through the bore and may be tipped slightly with respect to the body, and whereby said body may slide on the supporting surface a limited distance independently of said tumbler when said body is struck by the hand, the vertical height of said body being at least one-half of the vertical height of the tumbler but exposing a substantial height of the tumbler for grasping thereof and whereby said body prevents excessive tipping of the tumbler by engaging the tumbler at opposite and vertically spaced points on the body, the upper of said points being above the vertical middle line of said tumbler.

2,589,099
VENDING MACHINE
Lincoln M. Larkin, Libertyville, Ill., assignor to Linklark, Inc., Chicago, Ill., a corporation of Illinois
Application May 14, 1947, Serial No. 748,016
6 Claims. (Cl. 194—10)

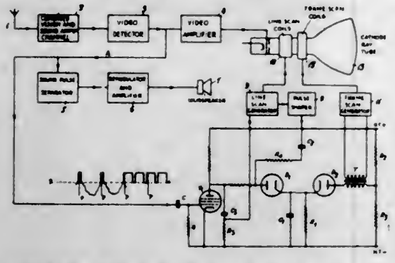
6. An article dispensing machine comprising means forming a storage chamber, an endless article conveyor mounted in the chamber and operable to deliver articles thereon successively in article discharging position, and then to discharge articles therefrom into dispensing position at a delivery station in the chamber, an electric motor and associated selectively operable switch means for controlling the motor to drive the conveyor forwardly in one direction to deliver articles successively at the delivery station, and to drive the conveyor in the reverse direction to allow the same to be loaded with dispensable articles, including a loading switch for controlling conveyor movement in the reverse or loading direction, and a normally inactive relay switch for controlling forward or dispensing movement of the conveyor, a coin actuated switch operable to condition the relay switch for conveyor movement in position causing conveyor movement,

selectively operable coin accepting and rejecting means including an empty switch disposed in position to be actuated by articles in discharging position to thereby cause acceptance of coins and delivery thereof in position to operate the coin actuated switch, and to reject coins in the absence of an article in discharging position on the conveyor, latch means to hold the relay switch in conveyor driving position, latch releasing



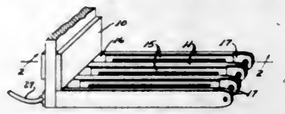
means operable to release said latch means, dispensing switch means comprising a latch release switch operable to actuate releasing means and a conditioning switch connected in circuit with said coin actuated switch and operable to disable the same, said release and conditioning switches being operable in response to delivery of an article from the conveyor into dispensing position at said delivery station.

2,589,100
TELEVISION RECEIVER WITH SOUND RECURRING AS PULSES DURING BLANKING PERIODS
Dennis I. Lawson and Arthur V. Lord, Cambridge, England, assignors to Pye Limited, Cambridge, England, a British company
Application December 26, 1946, Serial No. 718,560
In Great Britain January 8, 1946
4 Claims. (Cl. 178—5.8)



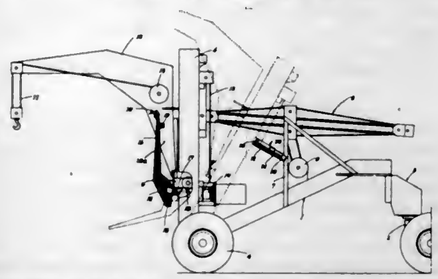
3. Receiver for combined sound and television waveforms in which the sound intelligence is transmitted over the same channel as the picture intelligence and the synchronising signals as a series of modulated pulses of opposite sign to the synchronising pulses during the line blanking periods of the television waveform, comprising means for separating the modulated sound pulses from the received waveform, a sound reproducer, means for demodulating the separated sound pulses, means for feeding the output from said demodulating means to the sound reproducer, and means for demodulating and reproducing the picture intelligence including a frame time base, a channel in the receiver through which the frame synchronising signals are fed to the frame time base, means for generating a series of auxiliary pulses at the line repetition frequency and with a duration longer than that of the sound pulses, and means for applying said auxiliary pulses to the frame synchronising channel with the auxiliary pulses occurring in the framing periods at the same instants as the sound pulses but in opposite phase thereto, whereby the disturbing effect of the sound pulses upon frame synchronisation is counteracted.

2,589,101
LIFT TRUCK FORK TUBE
Charles W. Leguillon, Akron, and Edwin B. Katzenmeyer, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application March 23, 1948, Serial No. 16,566
11 Claims. (Cl. 214—113)



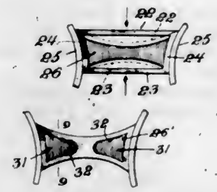
1. An article-conveyor distender for gripping the article in the conveying thereof, said distender comprising a chamber having a flexible article-gripping wall comprising an extensive flexible pressure face for exerting pressure compliantly against the article, said wall having a movable marginal portion of flexible material of devious shape in cross-section extending in the direction from the edge of said face towards the outer margins of said wall in the undistended condition of said distender and of a relatively straightened shape in cross-section in the distended condition of said distender to accommodate extensive movement of said face and flexure thereof without substantial outward bowing of said face under fluid pressure distension of said wall.

2,589,102
WHEELED CRANE
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California
Application August 23, 1948, Serial No. 45,726
5 Claims. (Cl. 212—8)



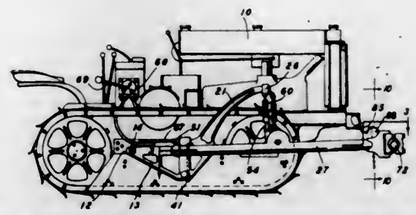
4. In a wheeled crane including an upstanding elevator frame having an elevator carriage vertically movably mounted thereon, and said carriage being fitted with a rear projecting boom; a lift fork structure, a pivotal mount securing the lift fork structure in connection with the elevator carriage for folding from a rearwardly projecting working position to an upwardly projecting out-of-the-way position, and means to releasably latch the structure in said last named position; the boom including a dependent front end portion, and said structure including a fork leg which, when the structure is folded, is disposed alongside said portion, a stop on said portion against which the leg then abuts, and said latch means being mounted on said portion and engaging the leg.

2,589,103
INLAID OPHTHALMIC MOUNTING METHOD
Frank W. Lindblom, Warwick, R. I., assignor to Welsh Manufacturing Company, a corporation of Rhode Island
Application September 29, 1949, Serial No. 118,695
1 Claim. (Cl. 41—35)



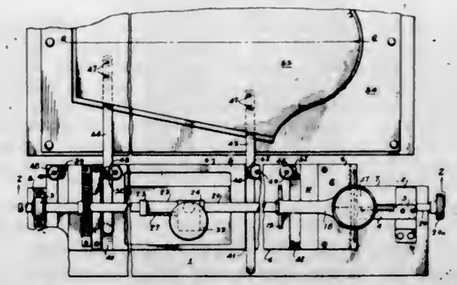
The method of making an ophthalmic bridge which consists of making the bridge in the form to provide an open center therethrough with a substantially straight lower portion and positioning an insert having grooved downwardly concave lower edge in said opening and bending said straight portion into the concave groove edge to hold the insert in place and provide a bridge with an arched lower edge to rest on the nose.

2,589,104
HYDRAULIC TOOL SUPPORTING STRUCTURE
Jesse G. Lindeman, Yakima, Wash., assignor, by mesne assignments, to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 26, 1945, Serial No. 624,725
20 Claims. (Cl. 97—50)



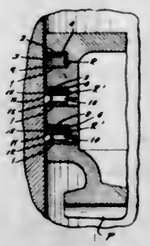
4. For use in tool supporting means of the type that is adapted to be mounted on a vehicle and which includes a member adapted to be extended either forwardly or rearwardly with relation to the vehicle, and means on said vehicle for pivotally receiving the inner end of said member in either forwardly or rearwardly extending position; the improvement which comprises raising means adapted to be connected with said member and to extend upwardly therefrom at a point spaced from said pivot means, an arm connectible to the vehicle so as to extend either forwardly or rearwardly and thereby dispose its upper end substantially over said raising means in either position of said member with relation to the vehicle; and means adapted to be carried by said member for operatively moving said raising means.

2,589,105
PATTERN MACHINE
Dario Maiocchi, Los Angeles, Calif.
Application March 15, 1948, Serial No. 15,030
10 Claims. (Cl. 33—12)



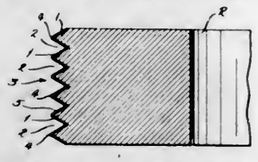
1. A pattern grading instrument for marking a pattern on a sheet of paper adapted to receive the said pattern marking, comprising a base, means mounted on said base for holding and supporting the body of a sheet of paper in the form of a pattern in extended position over and adjacent the said sheet of paper, means for moving said pattern holding and supporting means in any desired direction over said sheet in a plane parallel to the plane of the base, and graduated means for measuring the degree of said motion in two mutually perpendicular directions with respect to the base.

2,589,106
PISTON PACKING RING
Charles A. Marien, St. Louis, Mo., assignor, by mesne assignments, to Ramsey Corporation, a corporation of Ohio
Application April 11, 1949, Serial No. 86,650
3 Claims. (Cl. 309—44)



2. A piston ring comprising two juxtaposed ring members, one of said members comprising a split annulus of cast iron and having a channel in its top surface, the other member comprising a helical ring element resting in said channel, and having clearance with the marginal flange thereof the cast iron member having an initial closing pressure considerably in excess of that of the helical member, and said cast iron member having a narrow cylinder contacting edge adapted to wear in quickly whereby its closing pressure is rapidly reduced in use to approach that of the helical member.

2,589,107
PISTON PACKING RING
Melvin W. Marien, St. Louis, Mo., assignor, by mesne assignments, to Ramsey Corporation, a corporation of Ohio
Application June 19, 1950, Serial No. 168,911
2 Claims. (Cl. 309—44)

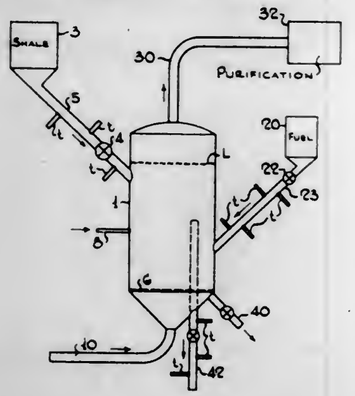


1. A piston ring fabricated of a ferrous metal having a plurality of juxtaposed ridges formed on its cylinder contacting surface, said ridges being disposed circumferentially and presenting relatively sharp edges outwardly from said surface, and a non-ferrous coating of microscopic thickness over the entire surface, said coating being higher in the scale of hardness than the ring metal.

2,589,108
CHLORINATED LIME COMPOSITION
Jacob G. Mark, Brookline, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
No Drawing. Application August 2, 1943, Serial No. 497,091
5 Claims. (Cl. 252—99)

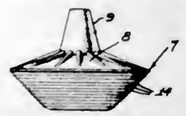
1. A free flowing, noncaking composition consisting essentially of chloride of lime and about 5% by weight of dry silica gel having a particle size of between 4 and 6 microns.

2,589,109
FLUIDIZED DISTILLATION OF SHALE
Homer Z. Martin, Roselle, and Frank T. Barr, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 29, 1945, Serial No. 638,422
5 Claims. (Cl. 202—6)



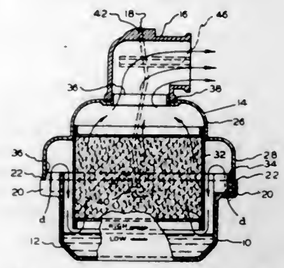
1. A continuous method of distilling oil shale to produce therefrom volatile constituents containing normally liquid hydrocarbon oils by subjecting the subdivided oil shale to elevated temperatures in the fluidized state, which comprises continuously charging subdivided fresh oil shale to a distillation zone, maintaining said shale in said zone at distillation temperatures in the form of a dense fluidized bed of subdivided solids, adding to said zone subdivided solid carbonaceous materials selected from the group consisting of lignites and bituminous coals and having a particle size substantially different from that of said fresh oil shale, supplying a free oxygen-containing gas to said zone to generate heat by burning said materials in said zone, continuously supplying throughout the course of the distillation heat so generated to said distillation zone by direct heat exchange between said oil shale and materials directly heated by said burning, said heat being sufficient in amount to support the distillation in said distillation zone, continuously withdrawing from said distillation zone a vapor stream containing normally liquid hydrocarbons and continuously withdrawing a downward stream of said solids from said reaction zone.

2,589,110
FLUSH TANK BALL VALVE
Harry F. Meltsner, Charlotte, N. C., assignor to Radiator Specialty Company, a corporation of North Carolina
Application August 27, 1948, Serial No. 46,477
4 Claims. (Cl. 4—56)



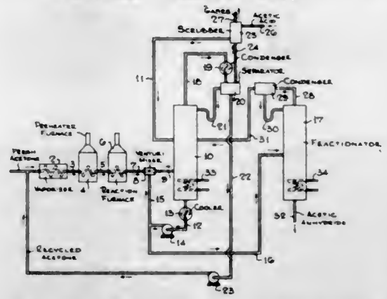
1. In a tank ball valve, a flexible body portion having a circumferential surface adapted to be brought into opposition to a valve seat, and a plurality of flexible circumferential ribs formed on said surface for individual seating on the valve seat, said ribs being closely spaced from one another, tapered toward their outer margins and upwardly inclined and having their outer margins of acute angled cross section.

2,589,111
OIL BATH AIR CLEANER CONSTRUCTION
John H. Mills, Jackson, Mich., assignor to Glynn Trolz, Jackson, Mich.
Application June 21, 1949, Serial No. 100,411
1 Claim. (Cl. 183—15)



In a liquid bath air cleaning apparatus, a hollow body part adapted to support a body of oil or other suitable liquid, said body part being of cylindrical formation and open at the top, the bottom being closed, supporting ledge surfaces defined around said top at spaced intervals and radially disposed outwardly from the main interior wall of said body part, and a combined filter unit and cover, said cover being adapted to fit onto said body part with the filter unit suspended within the body interior, and said cover including a peripheral skirt of larger diameter than the open end of said body part and defining a complementary surface portion adapted for seating engagement with said ledge surfaces to support said filter unit in said suspended relation with the formation of arcuate air inflow passages to the body interior defined between said skirt and the open top of the said body part between said radially disposed supporting ledge surfaces.

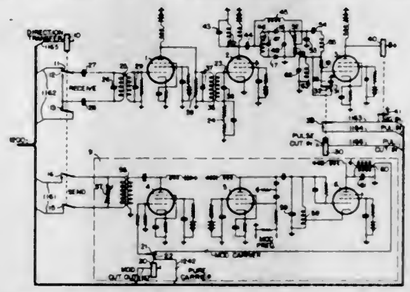
2,589,112
ABSORPTION OF KETENE
James E. Moise and William D. Luening, Baton Rouge, La., and William G. Daroux, Coventry, England, assignors to Standard Oil Development Company, a corporation of Delaware
Application October 30, 1948, Serial No. 57,562
3 Claims. (Cl. 260—546)



1. In a process for preparing acetic anhydride by pyrolyzing acetone to yield a hot vapor stream of pyrolysis products at a temperature in the range of 1150° F.–1300° F. consisting essentially of ketene, unreacted acetone and fixed gases, and thereafter reacting the ketene so produced with acetic acid to produce acetic anhydride, the improvement which comprises immediately jet mixing said hot vapor stream of pyrolysis products with a cooled quenching liquid mixture of acetic anhydride and acetic acid to quench said pyrolysis products to a temperature of 200° F.–300° F., whereby the acetic acid reacts substantially completely with the ketene to produce additional acetic anhydride, continuously passing the resulting quenched mixture into a contacting zone in which unconverted acetone vapor and fixed gases are continuously separated from a liquid mixture of acetic acid and acetic anhydride, passing the thus separated acetone vapor and fixed gases in said contacting zone countercurrent to additional acetic acid introduced as a stream into an upper part of said contacting zone, removing the unreacted acetone vapor and fixed gases overhead from said contacting zone, commingling said additional acetic acid with the liquid mixture of acetic acid and acetic anhydride at a bottom part of the contacting zone, withdrawing a portion of the thus obtained liquid mixture replenished with said additional acetic acid at the bottom part of said contacting zone, cooling said withdrawn portion of the liquid mixture and using it as said quenching mixture for the jet mixing with said hot vapor stream of pyrolysis products.

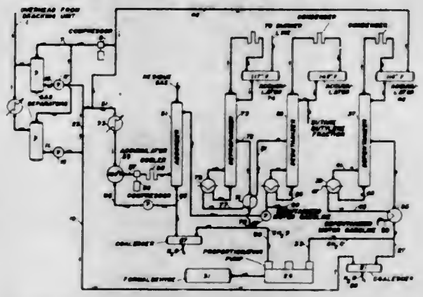
2,589,113
FREQUENCY MODULATED TONE UNITS
Imre Molnar, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application November 22, 1949, Serial No. 128,777
12 Claims. (Cl. 179—16.4)

2. In a signal receiver for responding to a frequency modulated by another frequency, a first said frequency modulated current comprising dial impulses at one time interval and signal pulses at another time interval, a limiter circuit controlled by said current for limiting the magnitude of said current to a predetermined value, a discriminator for demodulating said limited current, a signal relay for transmitting direct current pulses, a first means controlled by said demodulated current for operating said signal relay, a



first and second outgoing conductor, a second means completed during the dial pulse interval for transmitting direct current dial pulses over said first conductor in response to the operation of said signal relay, and a third means completed during the signal pulse period for transmitting direct current signal pulses over said second conductor in response to the operation of said signal relay.

2,589,114
PREVENTION OF AMMONIUM SULFIDE CORROSION
Christopher A. Murray, Nederland, Tex., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
Application January 10, 1950, Serial No. 137,718
9 Claims. (Cl. 196—27)

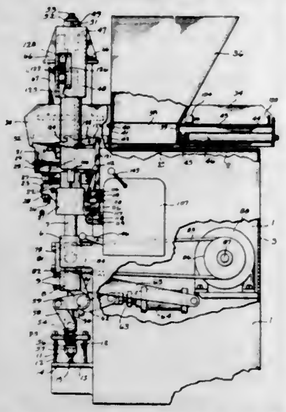


1. The method of mitigating the corrosive effect of compounds of the group consisting of ammonium sulfide and ammonium hydrosulfide, in the presence of water, on ferrous and cupreous metal surfaces, comprising reacting such compounds with formaldehyde to form a neutral condensation product.

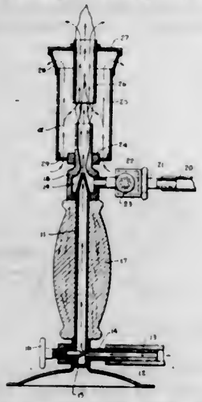
2,589,115
MACHINE FOR MAKING CONCRETE BLOCKS
Russell B. Nelson, Beaverton, Oreg., and Miles Davies and Fred Neth, Vancouver, Wash., assignors to Fred Neth, doing business as Columbia Machine Works, Vancouver, Wash.
Application December 6, 1948, Serial No. 63,812
13 Claims. (Cl. 25—41)

4. In a machine for making concrete blocks, the combination of a frame, a mold suspended in said

frame, a driven shaft mounted on said frame, power means for driving said shaft, spaced vibrator rods mounted eccentrically at one end upon said driven shaft, the opposite ends of said vibrator rods being secured pivotally to said frame, said vibrator rods being secured adjustably intermediate their ends to opposite sides of said mold, whereby rotation of said driven shaft causes elliptical movement of the mold.



2,589,116
LEAK DETECTING LAMP
Woldemar George Nolcken, Headington, Oxford, England, assignor to Pressed Steel Company Limited, Oxford, England, a British company
Application June 14, 1945, Serial No. 599,360
In Great Britain September 6, 1944
4 Claims. (Cl. 23—254)



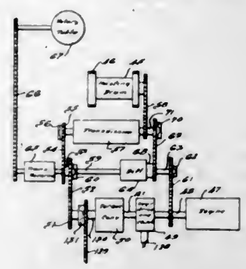
2. In a device for detecting gases, a nozzle substantially symmetrical about a straight axis, said nozzle having an inner end adapted for connection to a source of a combustible gaseous mixture and to a source of a gas to be detected and having an outer end adapted for ejecting a flame fed by said mixture, a reactor member in the form of an elognated tube arranged in coaxial relation to and at a distance from said outer end of said nozzle and exposing its interior surface over its entire length to a flame erupting from said outer end of said nozzle, and shielding means cooperating with said tube to circumferentially engage the same near its outer open end in the aforesaid arrangement and to form an enclosed annular space about the adjoining portion thereof, said means having a portion thereof radially arranged with respect to said axis to close the annular space around said tube at the outer end of said space, said means shielding from view and blocking passage of flame or other gases, moving over the outside of said tube, from reaching the outer end of said tube.

2,589,117
FISH LURE
August L. Oberbeck and Darrell V. Mason, Jefferson City, Mo.
Application March 4, 1947, Serial No. 732,174
1 Claim. (Cl. 43—42.28)



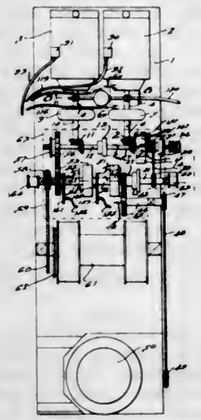
In an artificial bait, a body portion including a concavo-convex metal plate, a longitudinally extended central lobe rigidly secured to the body portion and arranged on the concaved side of the body portion with the ends thereof terminating adjacent to the ends of the body portion, a boss extending from one end of the lobe, a fibrous tail section including a collar secured over the boss, a plurality of hooks secured to the body portion and concealed within the fibrous tail section, a draw pin extending throughout the length of the lobe with the ends thereof extended beyond the ends of the lobe, and a line attaching eye at the front end of the pin.

2,589,118
AUTOMATIC WELL-DRILLING MECHANISM
Charles M. O'Leary, Detroit, Mich.
Application June 30, 1945, Serial No. 602,620
15 Claims. (Cl. 255—19)



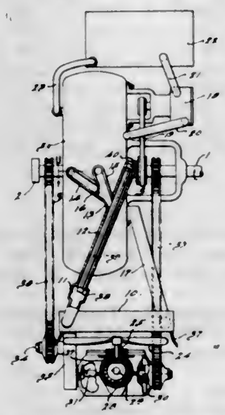
1. In an oil well drilling apparatus, a hoisting drum for supporting the drill stem, a rotary table for rotating the drill stem, an engine, a hydrokinetic torque converter, a driving connection between the input shaft of the converter and the engine, a differential mechanism having an input member, a driving connection between the differential input member and the engine independent of said converter, said differential having a pair of output members, a torque transmitting connection between one of said differential output members and the drum, a torque transmitting connection between the other of said differential output members and the table, and a torque transmitting connection between the output of the torque converter and the drum.

2,589,119
TRANSMISSION FOR WELL-DRILLING MACHINERY
Charles M. O'Leary, Los Angeles, Calif.
Application February 15, 1946, Serial No. 647,677
13 Claims. (Cl. 74—675)



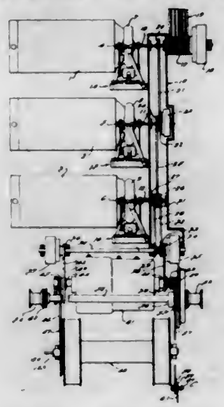
1. A rotary power transmitting apparatus including a pair of independently operable change speed transmissions, three power take-offs connected to said apparatus, two independent power input shafts, selectively operable means to connect both input shafts to one power take-off through both transmissions in succession, and selectively operable means to connect one input shaft to the second power take-off through one transmission and to simultaneously connect the other input shaft to the third power take-off through the other transmission.

2,589,120
POWER TRANSMITTING APPARATUS
Charles M. O'Leary, Los Angeles, Calif.
Application May 2, 1946, Serial No. 666,626
16 Claims. (Cl. 60—54)



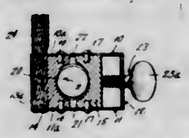
1. In combination, a hydrokinetic torque transmitter having driving and driven elements, a fluid circulating system connected to the transmitter for circulating operating fluid through the transmitter, said system incorporating cooling means for the circulated fluid, one end of said system being connected to said transmitter at a high pressure region therein and the other end being connected to a low pressure region to enable the transmitter to effect circulation of fluid through the system, a control valve for controlling the rate of circulation of fluid through said system, and means for opening said valve in proportion to the difference in speed of the driving and driven elements of the transmitter.

2,589,121
AUTOMATIC DRILLING MACHINE
Charles M. O'Leary, Los Angeles, Calif.
Application June 13, 1946, Serial No. 676,450
20 Claims. (Cl. 255—19)



1. A transmission for selectively driving either one of two power consuming instrumentalities in reverse or forward at a plurality of speed ratios, comprising a planetary transmission consisting of three interconnected elements, one of said instrumentalities being connectable to one of the elements and the other to another of the elements, means for selectively delivering power directly to each of the elements independently of the other elements, selectively operable means for holding either one of two of the elements stationary, and means for fixing one of said elements against rotation relative to another.

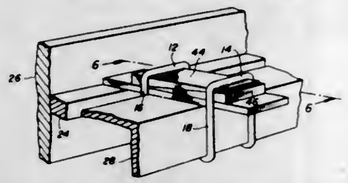
2,589,122
BATTERY TERMINAL CONNECTOR
Andrew Olson, Bridgeport, Conn., assignor of one-third to Frank T. Rohm, and one-third to Salvatore Guzzi, both of Bridgeport, Conn.
Application November 20, 1947, Serial No. 787,135
4 Claims. (Cl. 173—259)



1. A battery terminal connector comprising a body having connected opposed parallel side members; a pair of terminal post clamping blocks of electrical conducting material having opposed post-engaging surfaces, said blocks being disposed between said parallel side members with their ends in substantial engagement with said side members and having their ends pivotally connected to said side members to enable the blocks to pivot about transversely extending axes and grip terminal posts having different tapers, said side members having means to mount at least one of said blocks for sliding movement toward or away from the other block; and means

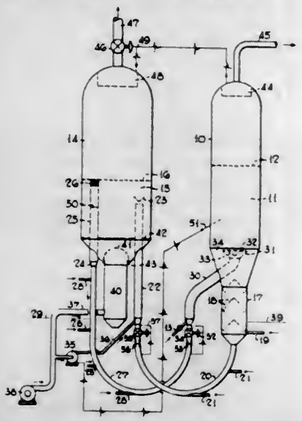
on the body cooperating with said slidable block to slide the block into clamping relation with a post disposed between said blocks.

2,589,123
BEDSPRING SUPPORT
Floyd E. Olson, Darlington, Wis.
Application May 21, 1948, Serial No. 28,321
8 Claims. (Cl. 5—238)



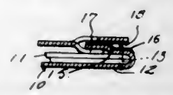
1. For use with angle iron bed rails, a bed spring support comprising an anchor plate, a first substantially U-shaped wire member embracing said anchor plate and including legs extending below said anchor plate, a further substantially U-shaped wire member embracing said anchor plate and having legs also extending below said anchor plate, the legs of said further member terminating below the legs of said first member, a pair of vertically inclined support elements joining corresponding legs of said members for supporting a bed rail, and means for removably securing said members to said anchor plate.

2,589,124
METHOD AND APPARATUS FOR HANDLING FLUIDIZED SOLIDS
John W. Packie, Maplewood, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application May 1, 1950, Serial No. 159,276
19 Claims. (Cl. 196—52)



1. In a process involving the contacting of separate gaseous streams with finely divided solid in two separate contacting vessels containing fluidized beds of said finely divided solid and wherein said finely divided solid flows from one of said vessels to the other through a U-shaped conduit interconnecting said vessels and having the bottom loop of said conduit extending a substantial distance below the bottom of said vessels; the method of controlling the rate of flow of solids between said vessels without the use of mechanically controlled valves while maintaining an effective gas seal therebetween which comprises flowing said finely divided solid from one of said vessels downwardly through one leg of said U-shaped conduit while in admixture with an aerating gas in an amount limited to maintain a dense fluidized body of solids in said downflowing leg, continuing the passage of said solid around the base of said conduit and upwardly through a substantial portion of the opposite leg without substantially changing the density of said fluid body, thereafter intermixing additional gas with the solid passing through the remaining and substantial section of said opposite leg in amount sufficient to materially reduce the density of said fluid body in said remaining section, flowing the resulting intermixture into the other of said vessels and regulating the amount of gas so intermixed to control the rate of flow of the solid between said vessels.

2,589,125
MATCH PACKAGE
Joseph A. Pastula, Hartford, Conn.
Application December 9, 1949, Serial No. 132,104
1 Claim. (Cl. 206—29)

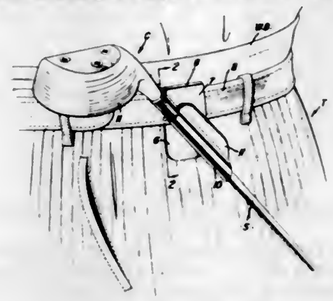


A match book comprising a plurality of match splints, a cover enclosing said splints, said cover comprising a back wall, a narrow flap extended from said back wall and overlying the base portions of said splints, a front wall hingedly connected at one end to said back wall and adapted when in closed position to be disposed between said flap and the base portions of said splints, an abrasive strip on the outer side of said flap, an abrasive strip on the inner side of said front wall adjacent the free end of the latter, and a tongue struck from said front wall, offset relative thereto and of a length, when in offset position, to engage between said flap and the base portions of said splints to thereby, when said package is opened to striking position to hold said front wall in overlying position with respect to said flap and with the abrasive on said front wall confronting the abrasive on said flap whereby a match head inserted between said abrasive strips will be lighted upon exerting a compressive pressure on the overlapping portions of said front wall and said flap and withdrawing said match head.

2,589,126
GOLF CLUB HOLDING CLIP
Carlos B. Payne, San Antonio, Tex., assignor of twenty per cent to Julius A. Bass, San Antonio, Tex.
Application August 11, 1949, Serial No. 109,733
2 Claims. (Cl. 224—5)

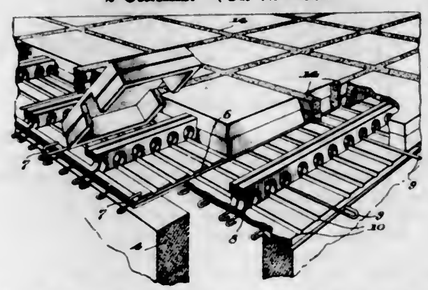
1. A combined belt clip and holder for the headed end of a single conventional-type golf club comprising a relatively broad inverted U-shaped resilient clip embodying an inward relatively long limb of a length appreciably greater than the width of the user's belt so that the lower end will project to a position below the lower edge of the belt in a manner to support and assist in distributing the weight and load imposed thereon when the golf club is being carried in the holder, and an outward short limb, said short limb terminating in a portion which is channel-shaped in cross-section and said portion con-

stituting a club shank cradling grip, the latter being at an oblique angle to the effective vertical



position of the clip, the outer wall of said grip having a flaring lip adapted to pilot the stated shank into carrying position in said grip.

2,589,127
REINFORCED TILE ARCH
Armando Bocage Platero, Luis Garcia Pardo, and Julio Jorge Bonsignore, Montevideo, Uruguay
Application March 8, 1948, Serial No. 13,613
In Uruguay March 28, 1947
2 Claims. (Cl. 72—68)



2. In a reinforced prefrabricated concrete roofing as claimed in claim 1, and wherein box shaped elements having cuts on two opposite lateral walls thereof are mounted on the vertical arms of the L-shaped members, said cuts fitting around and over the vertical arms of the L-shaped members, the outside surface of the walls of said boxes being stepped and slanting inwardly and upwardly to form wedge-like spaces between adjacent boxes, strengthening bars inserted in said wedge-like spaces resting in said longitudinal channels and in said crosswise grooves and passing through said egg-shaped holes, said wedge-like spaces being filled with concrete which also passes through the egg-shaped holes, open in the wedge-like spaces, in the L-shaped members to form continuous concrete ribs which unite all the members and form a solid roof construction.

2,589,128
ROOFING KNIFE
Alex A. Podjaski, Milwaukee, Wis.
Application April 24, 1947, Serial No. 743,678
1 Claim. (Cl. 30—162)

A roofing tool comprising a handle having an oval butt end, a cap mounted on the free butt end of the handle, said cap having a contour corresponding with the oval contour of the handle butt end, said cap having a bore extending therethrough axially in the direction of the longer diameter of the cap, the rear upper portion of the cap being slotted in alinement with the bore axis and in communication with the bore, the forward lower portion of the cap being slitted in alinement with the bore axis and in communication with the bore, said slotted and slitted portions being in overlying alinement in the axial zone of the cap with the outer end of the upper slotted portion spaced from the periphery of the cap to thereby limit the length of such upper slotted portion, a bolt of less length than and substantially fitting said bore and movable axially thereof, said bolt carrying an actuator secured in the rear end portion thereof and projecting through the upper slot of the cap for bodily moving the bolt longitudinally of the bore within the limits of such slot length, said bolt also carrying

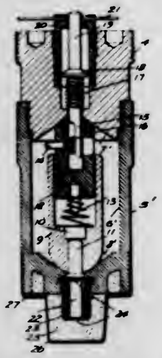


a knife-blade projecting forwardly from and secured to the forward end portion of the bolt, said blade having its foward end of convex curvature, the combined length of the bolt and the blade member approximately equalling the longest diameter of the cap member, said blade having a width to project into the tool handle with the tool handle slotted to permit movement of the blade between a retracted position within the cap and an exposed position laterally of the tool handle by movement of the bolt actuator, the lower edge of the blade in the immediate vicinity of and in the rear of the forward convex face being formed with an inwardly extending V-shaped recess, the opposite side edges of the recess being sharpened, and spring actuated retaining means for holding the blade in either retracted or exposed position.

2,589,129
CHEMICAL BOMB
Speers G. Ponder, United States Army, Henry C. Fischer, Baltimore, Md., and Leo Edelson, Mamaroneck, N. Y.
Continuation of application Serial No. 562,371, November 7, 1944. This application July 12, 1950, Serial No. 174,862
2 Claims. (Cl. 102—6)

1. A tail ejection bomb having an elongated casing extending the length of the bomb, a nose cup fitted into the front end of the casing; a fuse engaged to said nose cup and projecting into the casing, a dome in said casing scored around its side for housing said fuse, a frangible container in the casing adjacent said dome for holding white phosphorous in an airtight manner, a sock encircling said well adjacent to said container and partly filled with an incendiary hydro-

carbon gel, a tail fin assembly comprising a centrally perforated tail cup inserted into the bomb casing, a tapered tubular well secured to the cup having a relatively large closed end portion, and a relatively small open end portion, a tubular sleeve slidably mounted in said well having an outwardly flared inner open end portion and having its opposite closed end portion extending outside the well and connected at its



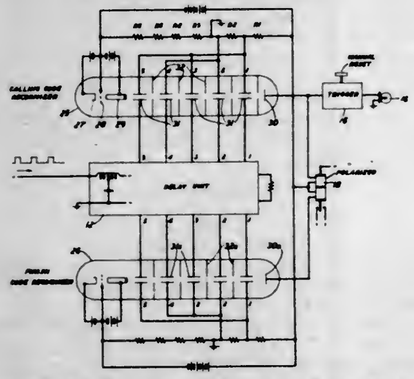
extremity to stabilizing fins, a coil spring disposed longitudinally in the well and being compressed between the closed end portion of the well and the closed end portion of the sleeve and an adapter of restricted inner periphery in threaded engagement with the tail cup arranged to collar the sleeve as it is plunged outwardly from the well by the compressed spring at a position where the outward flare of the sleeve is obstructed by the restricted inner periphery of the adapter.

2,589,130

PERMUTATION CODE GROUP SELECTOR

Ralph K. Potter, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 24, 1949, Serial No. 101,029
2 Claims. (Cl. 177—353)



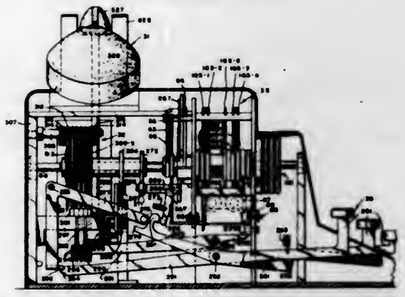
1. Apparatus for recognizing a code pulse group corresponding to a single one of the set of all possible permutations of a fixed number of two-valued code elements which comprises means for generating a deflectible beam, a target disposed to be impinged by said beam when not deflected, a number of beam-deflecting elements disposed adjacent the path of said beam, means for applying substantially steady biases individually to the several deflecting elements to cause the beam to be deflected off the target by at least one of said elements, said biases being adjusted in magnitude and polarity to correspond with the permutation code to be recognized, means for deriving individual signals from the several pulses of said code pulse group, and means for applying said individual signals to said deflecting elements to balance said biases individually, thereby causing said beam to travel without deflection to said target.

2,589,131

COMBINED TELEPHONE AND TELEGRAPH SYSTEM

Louis M. Potts, deceased, late of Evanston, Ill., by Martha W. C. Potts, executrix, Evanston, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Original application June 7, 1947, Serial No. 753,265. Divided and this application November 5, 1948, Serial No. 58,501
8 Claims. (Cl. 178—4)



1. In a telegraph transmission system, a pair of signal lines, a double wound selector magnet having a winding in series with each of said lines, means for generating current reversals for simultaneous transmission over said lines, a rectifier and a rectifier shunting means for controlling the passage of current over one of said lines, a second oppositely poled rectifier and a second rectifier shunting means for controlling the passage of current over the other one of said lines, means operable in accordance with signal code combinations for selectively controlling the operation of both of said shunting means to allow the passage of current over at least one of said lines to one of said windings of said selector magnet or over both of said lines to both of said windings of said selector magnet, said selector magnet being operated in one manner when both windings are energized and in an opposite manner when only one of said windings is energized according to said signal code combinations.

2,589,132

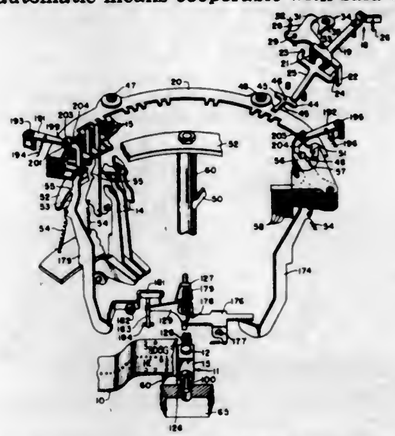
AUTOMATIC SHIFT CONTROL FOR PRINTING TELEGRAPH APPARATUS

Theodore I. Przysiecki, Park Ridge, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware

Application December 1, 1949, Serial No. 130,417
4 Claims. (Cl. 178—27)

1. In a telegraph printer responsive to an equal length permutation code including a case shift impulse, said printer comprising a case shift device, a pair of actuating bars effective alternately to actuate said shift device to either one of two positions, a controlling member responsive to said impulse for selectively controlling the operation of one or the other of said actuating bars, automatic means operably articulated

to said controlling member, and cam means on said automatic means cooperable with said actu-



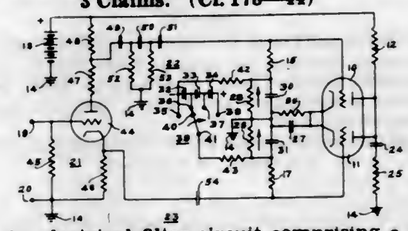
ating bars for limiting the selected actuating bar to a single operation to thereby prevent repeated operation of said actuating bars.

2,589,133

ELECTRICAL FILTER

Ellison S. Purington, Gloucester, Mass., assignor to John Hays Hammond, Jr., Gloucester, Mass.

Application January 13, 1948, Serial No. 2,011
3 Claims. (Cl. 178—44)



1. An electrical filter circuit comprising a pair of parallel channels each including an electron tube, said electron tubes having grid control circuits and output circuits; said grid circuits including means connected to apply a substantially equal bias voltage to each grid circuit and said output circuits being connected in opposed relationship to be balanced out when both channels transmit equal signals, said channels having means transmitting equally signals in a first frequency range, means transmitting unequally signals of a second frequency range, whereby the former signals only are suppressed in said output, and biasing means including a source of variable unidirectional voltage and connected between said grid circuits to alter said bias in opposite source for unbalancing the transmission characteristic of said channels.

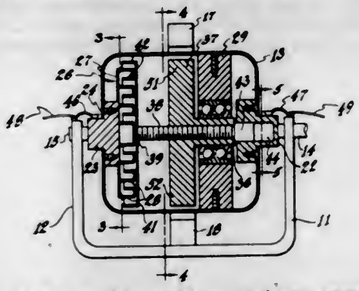
2,589,134

VARIABLE SEALED CONDENSER

Ross S. Pyle, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application April 26, 1950, Serial No. 158,223
2 Claims. (Cl. 175—41.5)

1. A vacuum sealed condenser comprising, a hollow container constructed of insulating material, a holding bracket, a first shaft rotatably supported in one end of said holding bracket, a second shaft rotatably supported in the other end of said holding bracket, said container supported between said first and second shafts, a third threaded shaft within said container and slidably connected to said first shaft, first capacitive means mounted upon the end of said



second shaft within said container, second capacitive means mounted on the end of said third shaft, a magnetic bar rotatably supported in said container, said third shaft threadedly received through said magnetic bar, and magnetic means coupled to said magnetic bar.

2,589,135

SUBMARINE SIGNALING DEVICE

Irad S. Rafuse, Glen Head, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 25, 1947, Serial No. 744,007
6 Claims. (Cl. 177—386)



1. A signal translating device comprising a support, a plurality of piezoelectric crystals each having one end secured to said support and vibratile normal to said support, the opposite ends of said crystals being substantially coplanar, support means having a surface substantially coplanar with said opposite ends, resilient spacing means upon said surface, a diaphragm rigid in the direction parallel to said opposite ends, in juxtaposition to said opposite ends and having its peripheral portion seated upon said spacing means, resilient members engaging said diaphragm adjacent and inwardly of its periphery, and securing means engaging said resilient members and holding said diaphragm against said spacing means and in engagement with said opposite ends of certain of said crystals.

2,589,136

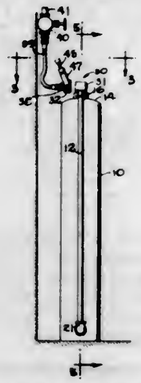
APPARATUS FOR WATER TREATMENT

Glenn S. Ralston, Rockford, Ill., assignor to Servisoft, Inc., Rockford, Ill., a corporation of Illinois

Application May 21, 1949, Serial No. 94,597
2 Claims. (Cl. 210—24)

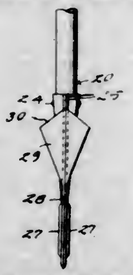
1. In a water treating apparatus, the combination of an elongated closed tank, an outlet pipe communicating with and attached rigidly to one end of the tank and extending alongside the tank beyond the other tank end, said pipe being disposed close to but spaced from the tank to receive the fingers of one's hand at different points spaced along the pipe whereby to enable the pipe to be used as a handle in carrying the tank while suspended from the hand at various angles, means joining said tank and said pipe at a point spaced along the tank from said first

tank end whereby to hold the pipe end against substantial movement relative to said tank, a short pipe communicating and rigid with said other tank end and projecting from the latter parallel to said first pipe, the projecting ends of the two pipes extending beyond the tank end, and fittings rigid with said pipe ends and providing sealing surfaces disposed substantially in



a common plane and facing outwardly away from the tank axis and adapted for abutting engagement and detachable connection with complemental surfaces on inlet and outlet conduits, said fittings having angular passages extending therethrough from said pipes and terminating at openings each disposed within one of said sealing surfaces.

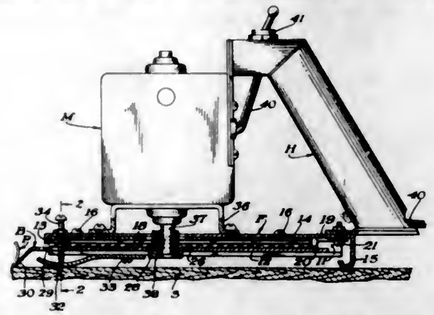
2,589,137
ARROWHEAD
James C. Ramsey, Lincoln, N. Mex.
Application November 12, 1949, Serial No. 126,718
2 Claims. (Cl. 273—106.5)



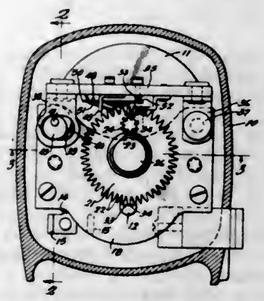
2. An arrowhead comprising a pair of face abutting secured together plates, complementary socket members carried by said plates, a point formed at the forward end of each plate having rearwardly divergent cutting edges, a triangularly shaped blade on each longitudinal edge of each plate disposed rearwardly of said point and at right angles to the outer side of said plate, each blade being disposed parallel to the longitudinal axis of said plate, the blades of one plate being oppositely disposed with respect to the blades of the other plate.

2,589,138
MOTORIZED STRIPPING TOOL
Duke W. Reno, Monroeville, Ohio
Application May 19, 1948, Serial No. 27,861
5 Claims. (Cl. 30—272)

5. In a stripping tool, framework means comprising an elongated flat body member having parallel channels formed along each edge, a flat stripping blade member disposed between said channels, guide means in said channels to restrict motion of said blade member to linear reciprocation within said channels, the forward end of blade member having a downwardly bent knife portion, front and rear support means extending downwardly from said framework means for engaging the surface to be stripped, said front support comprising a flexible metal strip bridging the channels at one end rearwardly of said knife portion and having a curved foot portion for engaging said surface, screw means mounted in said framework means for flexing said strip away from said framework means, to control the depth of cut, motor means, and oscillating means associated with said motor means and blade member to reciprocate the latter in said framework means.

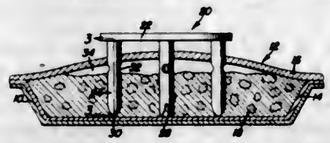


2,589,139
TIMER-SWITCH CONTROL MECHANISM
Chauncey Gordon Reynard and Charles D. Hoover, Fort Wayne, Ind., assignors to Basic Products Corporation, Fort Wayne, Ind., a corporation of Indiana
Application December 27, 1948, Serial No. 67,534
1 Claim. (Cl. 161—1)



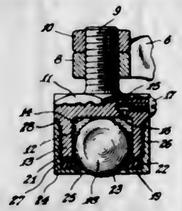
Timer mechanism comprising a clock motor provided with a step-down gear box and an output shaft adapted to rotate continuously at a speed of one revolution per hour, a pair of spaced drive pins mounted on said shaft, extending parallel to the axis thereof and symmetrically disposed with respect thereto, a toothed gear having forty-eight teeth, said gear being mounted near said drive pins for periodic engagement therewith and intermittent rotation thereby, the average rotational speed of said gear being one revolution per day, a follower mounted for revolution in synchronism with said gear, switch mechanism intermittently actuated by said follower during rotation of said gear, and means for retracting manually the toothed gear in an axial direction to disengage the same from said drive pins to permit manual adjustment of the relative positions of said follower and said pins.

2,589,140
PIE JUICE RETAINER
George J. Rosenberger, Holden, Wash.
Application March 9, 1950, Serial No. 148,626
1 Claim. (Cl. 99—434)



A pie juice retainer comprising a substantially flat channel shaped ring, and a plurality of depending tubes fixed to the bottom of said ring at circumferentially spaced points and communicating therewith, said tubes including bifurcated lower end portions and having discharge ports in their upper portions below the ring.

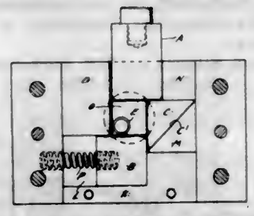
2,589,141
CALIPER GAUGE
Eugene P. Rosser, Ardmore, Okla.
Application November 17, 1949, Serial No. 127,805
2 Claims. (Cl. 33—168)



1. A caliper gauge containing, in combination, a yoke, a metal block secured to said yoke and having a cylindrical bore therein, said bore terminating within the block to form a seat at its bottom and defining at its open end an annular ledge, a hardened metal ball of diameter closely fitting the diameter of the bore seated within said bore and resting against the bottom thereof with a portion of its spherical surface extending outwardly through said annular ledge, an annular metallic washer seated on said ledge and having its inner periphery in contact with the surface of the ball, an annular rubber washer coaxial with said metallic washer and also having its inner periphery in contact with the surface of the ball, and an annular retaining cap screw-threadedly engaged with the block securing said block and ball and said metallic and rubber washers in assembled relation with a portion of the spherical surface of said ball exposed through an opening in said cap.

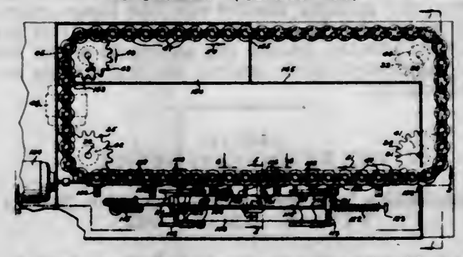
2,589,142
DIE
James Reginald Rotheroe, Perivale, England
Application March 17, 1949, Serial No. 81,943
In Great Britain March 25, 1948
3 Claims. (Cl. 153—13)

1. A tag-forming die comprising an open-ended housing, a fixed forming member secured within the housing at the upper end thereof, a block also secured within the housing at the upper end thereof and spaced from said forming member to form a slideway between them, an upper forming member disposed in said slideway for vertical sliding movement in contact with said fixed member and block, a lower forming member disposed within said housing for horizontal sliding movement in contact with the lower end of said fixed member, a forming member mounted in said housing for sliding movement in a path diagonal to the paths of movement of both said upper and lower forming members, said diagonally slidable member having a horizontal side in contact with the lower end of the upper forming member and a vertical side in contact with the lower forming member, the organization being such that the forming



members cooperate to form between them a rectangular die area automatically reducible in size as the upper forming member is slid downward, tension means acting on said lower forming member and normally resisting sliding movement of all of the said slidable members thereby to maintain said die area at its maximum size, and means for imparting downward sliding movement to the upper forming member against the tension of said tension means.

2,589,143
METHOD AND APPARATUS FOR REMOVING HEAT FUSIBLE MATERIAL FROM CANS
Albert F. Rus, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 14, 1947, Serial No. 786,018
13 Claims. (Cl. 226—22)

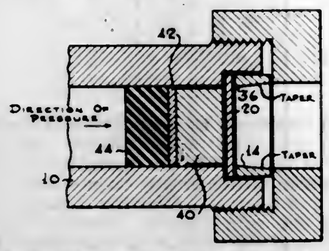


4. The method of removing a heat fusible sealing material from a container having an aperture therein which comprises moving a container through a fixed path, imparting rotation to said container during a portion of its movement in said fixed path, continuously applying a jet of hot air tangentially of the aperture in the container during that portion of the travel of the container where it is being rotated and flowing cool air about the container during its travel to restrict the heating effect of the jet of hot air to a selected portion of the container thereby to liquify and aspirate a predetermined amount of the heat fusible material from the container.

8. An apparatus for melting and aspirating heat fusible compound from within cans, said apparatus comprising a conveyor movable in a predetermined path, means for moving said conveyor, a plurality of spaced apart can holding fixtures supported and carried by said conveyor in said predetermined path, a movable air jet connectible to a source of hot air under pressure and directed across said predetermined path, means for reciprocating said air jet in a line parallel to said predetermined path, said jet trav-

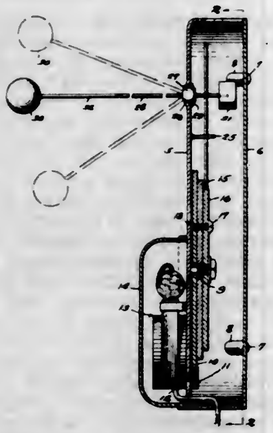
elling in unison with said conveyor during one part of the cycle of reciprocation, and means for rotating said fixture during said one part of the cycle of reciprocation.

2,589,144
PRESSURE RELEASE EQUIPMENT
Francis R. Russell, Scotch Plains, and Robert H. Mueller, Plainfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application August 1, 1946, Serial No. 687,794
4 Claims. (Cl. 220—89)



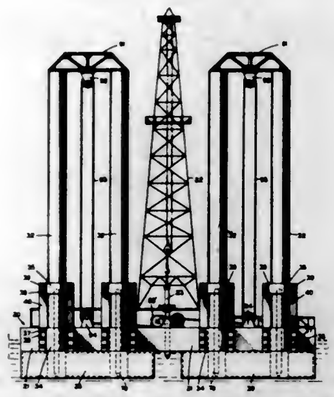
1. A relief valve comprising a hollow cylindrical housing, the housing being provided with an annular recess opening inwardly, a replaceable hollow cylindrical die in the recess, a round shear-resisting plate extending transversely across the housing and extending into the recess between the wall of the recess and the end of the die, an expandible packing closure within the housing on the high pressure side of the shear-resisting plate, and adapted to prevent leakage of high pressure fluid to the shear-resisting plate, a solid piston harder than the shear plate freely movable within the housing and interposed between the packing closure and the shear-resisting plate whereby excessive pressure against the packing closure causes the piston to shear the shear-resisting plate against the replaceable cylindrical die.

2,589,145
EYE EXERCISING DEVICE
Richard W. Ryan, Brooklyn, N. Y.
Application January 25, 1951, Serial No. 207,725
5 Claims. (Cl. 128—76.5)



1. An eye exercising device, comprising a cabinet, a horizontal shaft pivotally mounted in a bearing in the front wall of the cabinet at a point intermediate the ends of the shaft, one end of the shaft extending forwardly from the cabinet, the opposite end of said shaft being disposed in said cabinet, a visible object mounted on the forwardly projecting end of said shaft, a pair of operating arms pivotally mounted intermediate their ends within the cabinet, the upper ends of said operating arms crossing each other at a point above and in contact with the horizontal shaft, lugs extending inwardly from the lower ends of said operating arms, and cams mounted within the cabinet engaging said lugs, swinging said arms, horizontal shaft and visible object over the field of operation.

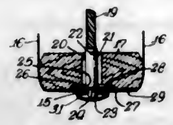
2,589,146
SUBMERSIBLE DEEPWATER DRILLING APPARATUS
Charles T. Samuelson, Houston, Tex.
Application October 6, 1949, Serial No. 119,791
11 Claims. (Cl. 61—46)



1. In a floating barge for subaqueous operations, a buoyant working platform, a submersible ground anchor below the platform and having a buoyant chamber therein, a tubular column extending upwardly from the bottom of said anchor and through said chamber and the top thereof, said platform having guide means through which said column loosely extends, the bottom of said anchor having a guide sleeve projecting upwardly into said column, a spud extending axially through said column and slidably engaging said sleeve, said spud when the anchor is submerged to rest on the underwater ground arranged to be forced into the ground to retain the anchor in a fixed position, and means for introducing water into the chamber for moving the column and anchor downwardly relative to the platform.

2,589,147
VENETIAN BLIND CONSTRUCTION
Edward E. Schaefer, Oak Park, Ill., assignor to Edward E. Schaefer, Alvin A. Steinert, Arthur A. Zucker, and George J. Halper, a copartnership doing business as Acme Venetian Blind Company, Chicago, Ill.
Application October 17, 1947, Serial No. 780,599
4 Claims. (Cl. 160—173)

1. A detachable cord fastening device for a Venetian blind comprising an elongated shank adapted to be secured at its upper portion to an end of a raising and lowering cord and to extend through a rail in supporting relation therewith, and a tape-securing means comprising a snap-fastener head on the lower end of said shank and a snap-fastener socket adapted to be secured in

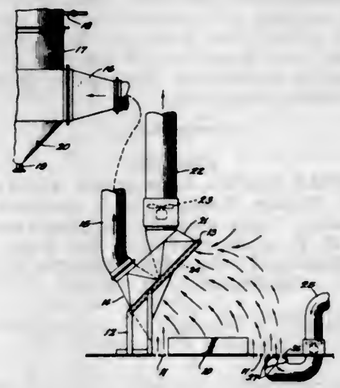


a tape for cooperation with said head whereby to detachably secure the cord and tape in place adjacent the rail.

2,589,148
PROCESS OF SEPARATING FATTY ACIDS
Ernest Schlenker, St. Barnabe, Marseille, France
No Drawing. Application January 28, 1949, Serial No. 73,439
11 Claims. (Cl. 260—419)

1. Process of separating a mixture of fatty acids into fractions of different solubilities which comprises mechanically stirring and slowly cooling the mixture to a temperature of about 15° to 20° C. below the titre of the mixed fatty acids whereby a pasty crystalline mass of high viscosity is formed and mixing said pasty mass with a selective solvent which possesses at the employed temperatures selective solvent power for unsaturated constituents and separating the solid phase from the liquid phase.

2,589,149
APPARATUS FOR TREATMENT OF GAS
Claude B. Schneible, Detroit, and Alvin S. Lundy, Huntington Woods, Mich.; said Lundy assignor to said Schneible
Application November 28, 1947, Serial No. 788,496
3 Claims. (Cl. 183—75)



1. In apparatus for treating a rising column of particle-laden gas, means for discharging gas streams to form a curtain about said column on one side, a plurality of vertically-related suction intakes communicating with the opposite side of said column of gas, a separate draw-off conduit for each of said intakes, means for separating the particulate matter received in the lowermost of said intakes, and means for venting to the atmosphere the column of gas received in the uppermost of said intakes.

2,589,150
INSECTICIDE
Valerie Schneider, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application April 9, 1946, Serial No. 660,844
5 Claims. (Cl. 167—28)

1. An insecticidal composition containing as an active ingredient a halogenated Gray tower polymer fraction.

2,589,151
THIOGLYCOLIC ACID ADDUCTS OF RUBBER-LIKE POLYMERS AND PROCESS OF PREPARING SAME
George Serniuk, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 12, 1946, Serial No. 696,610
4 Claims. (Cl. 260—79.5)

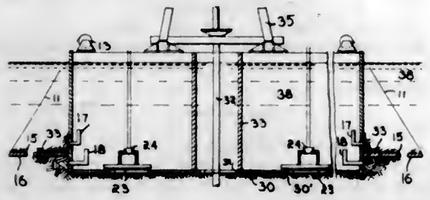
2. The process which comprises dissolving in benzene a solid, synthetic, rubber-like emulsion copolymer of butadiene-1,3 with styrene, mixing the resulting solution with one mol of thioglycolic acid per mol of polymer double bonds in the presence of air at room temperature to saturate partially the double bonds of the copolymer and thereby forming a hydrocarbon-insoluble vulcanizable copolymer adduct.

2,589,152
CLOSURE FOR COLLAPSIBLE TUBES OPENED BY BRINGING A TOOTHBRUSH INTO RECEIVING POSITION
Warren F. Shannon, Beaumont, Tex.
Application April 2, 1951, Serial No. 218,742
2 Claims. (Cl. 222—127)



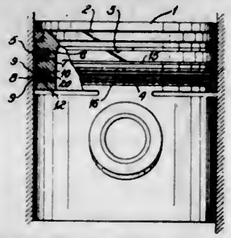
1. A closure for collapsible tubes comprising a cap secured to the discharge end of the tube, an opening being formed in the center of the cap and communicating with the interior of the tube, a housing having a pair of parallel sides and a top being superimposed upon the cap and formed integrally therewith, a swinging closure member disposed between the sides of the housing and pivotally connected thereto, and a spring bearing against the housing and acting upon the closure member whereby the closure member is normally maintained in closed position, the surface of the top of the cap between the sides of the housing being curved downwardly toward the center and the closure member having a cap engaging portion which is curved downwardly toward the center, the radius of the cap engaging portion corresponding to the radius of the surface of the top of the cap.

2,589,153
DRILLING BARGE
Alonzo L. Smith, Houston, Tex.
Application October 27, 1947, Serial No. 782,375
9 Claims. (Cl. 61—46)



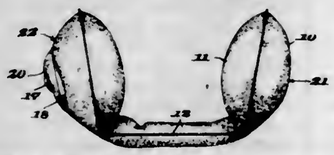
1. Apparatus for drilling subaqueous wells comprising, a submergible barge, drilling equipment supported thereon, said barge having a bottom adapted to rest on a submerged surface, means for submerging said barge by admitting water thereinto, and anchor means associated with said barge arranged to be lowered on the submerged surface and to adhere thereto when said barge is positioned thereon said anchor means including flaps pivotally secured to the sides of said barge to pivot outwardly therefrom to rest on bottom when the barge is submerged.

2,589,154
PISTON RING
Dallas M. Smith, Kirkwood, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application October 2, 1947, Serial No. 777,541
6 Claims. (Cl. 309—45)



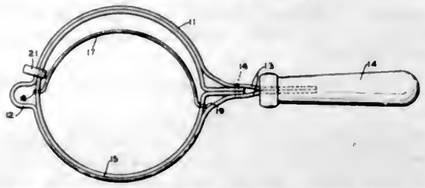
1. The combination with an internal combustion engine piston having a ring groove, of a piston ring assembly comprising, a cage disposed in the groove free of the bottom thereof, means limiting the radially inward position of said cage within the groove, a cylinder-engaging ring in the cage, and an expander spring disposed to urge the ring outwardly relative to the cage.

2,589,155
INFLATABLE HEAD STAY
Raymond D. Smith, Chappaqua, N. Y.
Application October 25, 1950, Serial No. 192,059
5 Claims. (Cl. 155—174)



1. A head stay and the like comprising superimposed resilient sheets sealed at the peripheral edges thereof, said sheets being sealed together along a continuous line forming a closed figure in a central portion thereof and along lines intermediate between the peripheral edges and said sealed central portion and symmetrical to the end edges of said stay, said sealed sheets providing a container and inflating means for said container.

2,589,156
FILTER PAPER HOLDER
James V. Smithson, St. Louis, Mo.
Application February 14, 1949, Serial No. 76,267
3 Claims. (Cl. 210—160)

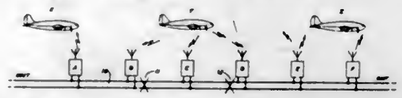


1. A filter paper holder comprising a first ring member, a second ring member adapted for movement into the said first ring member to clamp a filter paper between said members, and a cupping bow member pivotally mounted at its ends in said second ring member adapted to form said filter paper into a filter cup as said second member is moved into said first member.

2,589,157
VOLTAGE-DEPENDENT RESISTANCE BLOCKS
Bertil Stålhane, Stockholm, Sweden, assignor to Allmänna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
No Drawing. Application April 29, 1949, Serial No. 90,539
1 Claim. (Cl. 252—490)

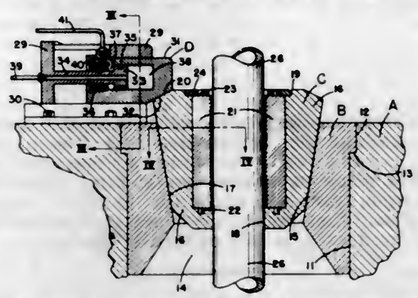
A voltage-dependent resistance block composed of from 50 to 75 per cent by weight of silicon carbide of grain sizes from .1 to .3 millimeter maximum dimension, from 20 to 40 per cent by weight of micro-crystalline aluminum oxide of grain sizes from .01 to .1 maximum dimension, and from 5 to 20 per cent by weight of a binder containing phosphoric oxide as a characteristic constituent.

2,589,158
MOBILE-RADIO AND WIRE SYSTEM
Elliot M. Staples, Hohokus, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 2, 1948, Serial No. 18,537
16 Claims. (Cl. 250—6)



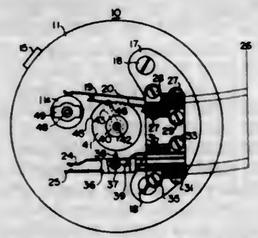
1. In a mobile radio communication system, a plurality of fixed two-way radio stations situated at intervals along a route of travel of a mobile unit, a line interconnecting said stations, a control-initiating means at each station capable of operating in response to the reception of a sufficiently strong radio signal from said mobile unit, said means being operative in response to said reception to initiate and transmit a control in both directions via said line to the other said stations, and lock-out means at each station responsive to the reception of said control from only one of said directions for disabling the radio transmitter at the respective station, for permitting selection of a transmitter for reply from a fixed station.

2,589,159
HOLD-DOWN SLIP ASSEMBLY
Albert L. Stone, Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application February 19, 1948, Serial No. 9,600
2 Claims. (Cl. 255—23)



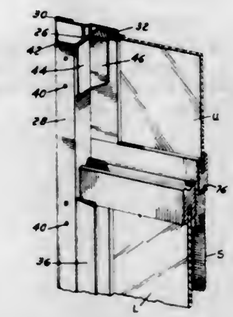
1. A device for releasably holding a section of pipe comprising, in combination, a rotary table for a drilling rig, a slip bowl carried by the rotary table, a plurality of self-energizing slip members, each member having at least one die section mounted for independent rocking movement to present a portion of its pipe gripping edge inwardly of its normal position for pipe gripping purposes, said members being withdrawable from the slip bowl and arranged to fit into the slip bowl for holding a section of pipe against downward and angular movement, a housing secured to the upper surface of said rotary table, a cam member having a cam surface slidably carried by said housing for horizontal movement and arranged to move into a first position with its cam surface in contact with a cooperating surface of one of the slip members to lock said slip in position against upward movement and movable from the first to a second position out of contact with said slip member, said housing and said cam member cooperating to form a piston and cylinder assembly and a conduit for fluid operatively connected to said housing whereby the cam member may be moved from one to the other of its positions by fluid pressure.

2,589,160
RELAY TEST SET
Edward L. Swarts, Princeton, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application May 16, 1950, Serial No. 162,201
11 Claims. (Cl. 179—175)



9. A testing arrangement for testing the operation of a quick and slow relay combination where the slow relay is desired to remain operated during intermittent operations of the quick relay, said arrangement comprising an impulse sender having contacts connected in circuit with the quick relay and operated to cause intermittent operations thereof, said sender having a set of shunt springs operated during the movement of the sender to shunt said contacts for a predetermined time during operation of the sender to test the release time of said slow relay.

2,589,161
WINDOW FRAME AND SASH ASSEMBLY
Joseph Sylvan, Berkley, Mich.
Application March 23, 1950, Serial No. 151,378
4 Claims. (Cl. 160—90)

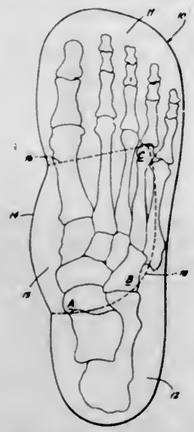


1. A window frame and sash assembly comprising, in combination, a window frame assembly provided with opposed complementary metal jamb portions connected at their upper ends by a downwardly open channel-shaped metal header portion and connected at their lower ends by a metal sill portion, said jamb portions exhibiting opposed complementary sash guide channels, a plurality of sash elements vertically slidably mounted within said guide channels, each channel having an outer guide wall continuous from top to bottom thereof and formed integrally with the jamb member and an inner guide wall divided approximately midway of the height of the window providing an upper portion and a separate lower portion, said portions being strips independently coupled with the jamb member through having a part of the jamb member folded over a portion of each strip, said portions being separated from each other by a gap having a vertical dimension greater than the transverse dimension of the jamb member and through which a sash element may be moved into or out of the guide channel, the upper portions of the channels having a width capable of receiving a single sash only and the lower portions of the channels having a width capable of receiving two slidable sash side by side, the sill portion of the frame provided with two parallel upstanding ledges extending lengthwise of the sill and spaced apart transversely thereof, the inner ledge having a height substantially greater than the outer ledge, the space between said ledges adapted to receive a sash rail therein and the adjacent part of a sash rail seated upon the outer ledge, said slidable sash having upper and lower rails grooved lengthwise for interfitting engagement, the header channel of the frame having a depth sufficient to permit the upper sash to be elevated thereinto such a distance as to permit disengagement of the groove of its lower rail from the groove of the upper rail of a sash therebelow.

2,589,162
HERBICIDE
Jack P. Taylor, Arlington, Va., assignor to The R. H. Bogle Company, Alexandria, Va., a corporation of Delaware
No Drawing. Application April 27, 1950, Serial No. 158,597
9 Claims. (Cl. 71—2.4)

1. A herbicidal composition comprising a mixture of an alkali metal chlorate and a water soluble salt of trichloroacetic acid, each of said components being present in less than half the amount required for an equivalent herbicidal effect when each of said components is used separately, said salt of trichloroacetic acid serving to reduce the fire hazards of the chlorate-containing composition.

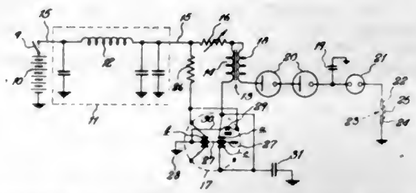
2,589,163
ARCH SUPPORTING INSOLE
Harvey A. Tieman, St. Louis, Mo.
Application October 18, 1947, Serial No. 780,675
6 Claims. (Cl. 36—71)



1. A shoe sole or the like comprising a sole member made of a flat member shaped to the inside of the sole of a shoe and having a convex edge at the inner side of the arch portion, an elevating member disposed adjacent the arch portion of the sole member, comprising a piece of material having a convex edge to coincide with the convex edge of the arch portion of the sole member, a forward edge extending transversely of the shoe from the inner side of the sole member back of the first, second and third metatarsal heads, but extending under the forward part of the fourth metatarsal, a convex edge joining the aforesaid two edges of the elevating member, said convex edge extending inwardly of the forward end of the fifth metatarsal, but extending under the cuboid portion and under the talus portion so as to give support at the forward part of the fourth metatarsal, the cuboid and the talus.

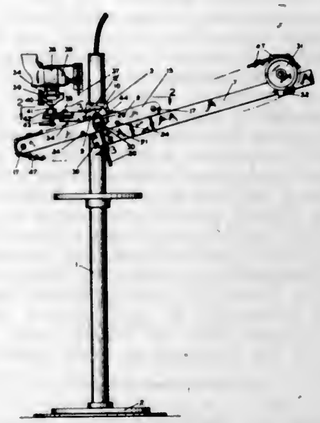
2,589,164
IGNITION SYSTEM
Tullio Tognola, Sidney, N. Y., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware
Application May 8, 1950, Serial No. 160,744
9 Claims. (Cl. 315—223)

1. In an ignition circuit for combustion engines or the like, a storage condenser, a source of electrical energy for charging said condenser, a spark gap having a normal spark-over voltage in excess of the maximum voltage of the charge attainable by said condenser, an element having a high electrical resistance below the normal resistance of said gap connecting the electrodes of the latter, and means including a second spark gap having



a breakdown voltage not greater than said maximum voltage for connecting said first-named spark gap in circuit with said condenser, said resistance being capable of conducting successive discharges from said condenser to effect ionization of said first-named spark gap and render the latter conductive to said condenser discharges.

2,589,165
CHAIN SAW GRINDER
John Albert Toy and Paul Rethoret, Eugene, Oreg.
Application January 16, 1950, Serial No. 138,756
4 Claims. (Cl. 76—40)

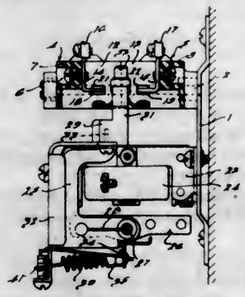


3. A chain saw grinding apparatus comprising a vertical support, a bracket vertically adjustable on the support, an elongated clamp for securing a length of a chain saw comprising links having spaced cutter and rider teeth, means for mounting said clamp across said bracket for adjustable angular movements in vertical and horizontal planes, means carried by said bracket and cooperating with said clamp for supporting a chain saw for lengthwise movement thereon for clamping the saw at different teeth thereof, an arm also carried by the bracket for horizontal swinging movement, a bracket having an adjustable universal joint mounting on said arm to turn and adapted to be held in adjusted position in a plurality of angular positions, a power grinder pivoted on the bracket for movement toward and away from the clamp and teeth in different angular positions relative to said teeth, and means to limit the pivotal movements of the grinder.

2,589,166
KETONE SOLUBLE COPOLYMER OF METHACRYLONITRILE AND A DIOLEFIN
Byron M. Vanderbilt, Westfield, N. J., and Frances Bascom, Staten Island, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 31, 1946, Serial No. 719,618
8 Claims. (Cl. 260—32.8)

1. A coating composition comprising a fluid solution of a thermoplastic resin prepared by copolymerization in aqueous emulsion of a mixture of monomers consisting of 60 to 80 parts by weight of methacrylonitrile and 40 to 20 parts by weight of a conjugated diolefin of 4 to 6 carbon atoms in the presence of 0.1 to 1.0 weight percent of an oxygen yielding coplymerization catalyst and 0.1 to 5.0 parts by weight of an aliphatic mercaptan of 8 to 14 carbon atoms, said resin being dissolved in a solvent consisting of methyl ethyl ketone.

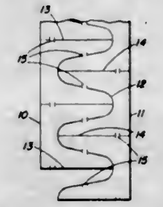
2,589,167
ELECTRIC SWITCH
Hermon L. Van Valkenburg, Wauwatosa, and Kenneth G. Sedgwick, Shorewood, Wis., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application March 15, 1946, Serial No. 654,624
9 Claims. (Cl. 200—166)



1. In an electric switch, a support, a back insulating block, a front insulating block, means for mounting said blocks upon the support, barrier walls on said blocks mating in the block supported position to form a plurality of individual chambers between the blocks, sets of spaced stationary contacts mounted in said chambers, one contact of each set being mounted on the back insulating block and one contact of each set being mounted on the front insulating block, movable bridging contacts cooperating with said sets of stationary contacts, an insulating carrier upon which said movable contacts are mounted, said movable contacts including a unit assembly of a bridging element, a contact pressure spring and an enclosure therefor, and means for readily reversing said unit assembly bodily top for bottom on the carrier to vary the contact arrangement from normally engaged to normally disengaged.

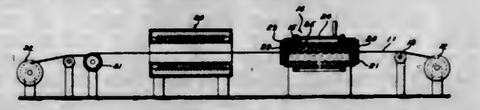
2,589,168
PATCH REINFORCEMENT
Thomas E. Vassar, Clarks Summit, Pa., assignor to Eureka Specialty Printing Company, Scranton, Pa., a corporation of Pennsylvania
Application February 17, 1947, Serial No. 729,049
3 Claims. (Cl. 206—59)

1. A group of patch reinforcements of flexible fabric, each having a re-entrant notch therein for receiving the binder element, each individual reinforcement having spaced projections separated by said notch, said group constituting a connected strip having two straight parallel edges with a wavy weakening line extending in the same general direction as said edges and located between two rows of reinforcements extending along said strip, parts of the wavy line being located remote from said one edge and other parts being remote from the other edge, a first group of weakening lines extending individually from said one edge to a part of the wavy line most remote from said one edge and located between the



patch reinforcements of a first row, and a second group of weakening lines extending individually from the other edge to a part of the wavy line most remote from said other edge and located between patch reinforcements of a second row, two adjacent patch reinforcements in first row having projections located in the notch provided in a patch reinforcement of the second row and the notch of a patch reinforcement of the first row having located therein projections of two patch reinforcements of the second row, the patch reinforcements being separably connected across said weakening lines.

2,589,169
METHOD OF INSULATING CONDUCTORS
Charles C. Veale, Wheaton, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 12, 1946, Serial No. 661,577
3 Claims. (Cl. 117—103)

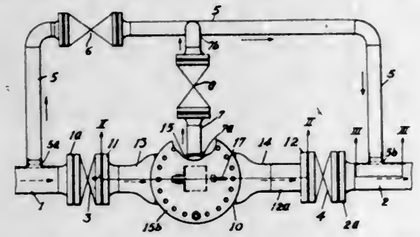


1. A method of insulating a conductor comprising applying to said conductor a ceramic enamel containing a frit reduced to particles 6 microns or less in diameter mixed with a boiled linseed oil base ink varnish, and heating said coated conductor to such a temperature as would be provided by moving said article through a 12'' furnace within a range of speed and temperature in the furnace from 103 inches per minute and 1440° F. to 325 inches per minute and 1500° F.

2,589,170
PIPE-LINE SCRAPER TRAP ASSEMBLY
Burton Ver Nooy, Atlanta, Ga., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 2, 1948, Serial No. 63,013
1 Claim. (Cl. 15—104.06)

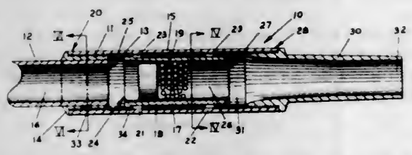
A pipe-line scraper, conduit-trap assembly, comprising in combination with a conduit having spaced, opposed upstream and downstream end portions, a valve affixed to each conduit end portion, said valves when open providing passageways substantially equal to the diameter of said conduit, an enlarged trap member secured in the

line between said valves, a primary by-pass line having an inlet from said conduit on the upstream side of one of said valves, and an outlet into the conduit on the downstream side of the other valve, a valve in said line adjacent the up-



stream inlet, a secondary by-pass line having an inlet from said trap, and an outlet into said primary by-pass line on the downstream side of the valve in said line, a valve in said secondary by-pass line, and means for venting pressure from said trap.

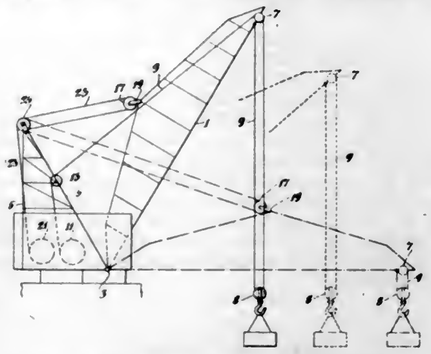
2,589,171
SHOTGUN CHOKE AND COMPENSATOR
Italo D. Vironda, Battle Creek, Mich.
Application June 23, 1949, Serial No. 100,884
2 Claims. (Cl. 42—79)



2. A muzzle device for firearms of the shotgun type discharging a scatter shot charge, comprising the combination: base means mountable on a shotgun muzzle; a cylindrical, unbroken, outer tubular member having means at its one end for engagement with said base means, said outer tubular member having an internal diameter materially larger than the barrel of said gun; a choke member at the other end of said outer tubular member and co-axial therewith, having at its ends closest to said base member an internal opening of a size approximating the internal diameter of said outer tubular member and thence tapering to a smaller internal diameter in a direction away from the muzzle of said gun; an inner, cylindrical, unbroken, tube arranged co-axially with respect to said outer tubular member and having its external walls parallel with the internal walls of said outer tubular member, said inner tubular member being axially spaced from the muzzle of said shotgun and being also axially spaced from said choke member; and means supporting said inner tubular member with respect to said outer tubular member, said means being perforated sufficiently as not to restrict materially the passage of gases through said annular chamber.

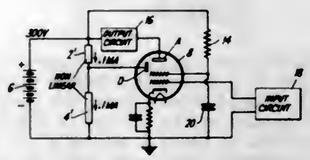
2,589,172
LEVEL LUFFING CRANE
George P. Wagner, Mount Vernon, N. Y.
Application May 26, 1947, Serial No. 750,497
7 Claims. (Cl. 212—8)

1. In a crane or similar hoisting apparatus, the combination with a boom pivoted adjacent one end thereof and adapted to suspend a load therefrom at a point outwardly positioned with respect to the pivot of the boom, a hoisting drum, and a cable operatively connecting said hoisting drum to the load to produce hoisting and lowering movements of said load upon forward and reverse rotation of said hoisting drum, of a luffing drum of varying diameter along the length thereof, a cable operatively connecting said luffing drum



and said boom to effect luffing movement of said boom upon forward and reverse rotation of said luffing drum, and a differential mechanism operatively connected between said drums to provide for differential rotation of one with respect to the other upon driving either drum forwardly or reversely.

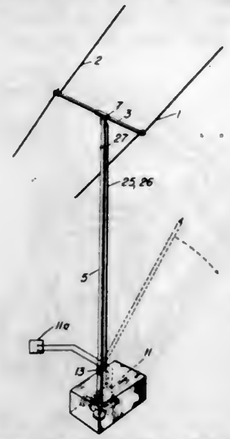
2,589,173
POWER SUPPLY CIRCUIT FOR MULTIPLIER VACUUM TUBES
John Torkel Wallmark, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 22, 1948, Serial No. 55,884
7 Claims. (Cl. 179—171)



2. In combination, a bleeder circuit for use with a secondary emissive electron discharge device having an anode, a cathode and a secondary emissive multiplier electrode, comprising a pair of non-linear resistors connected in series and across a source of unidirectional potential, the value of said resistors continuously decreasing with increased voltage applied thereacross, means for connecting those terminals of said bleeder circuit which are connected to said source to said anode and cathode, and means for connecting the junction of said non-linear resistors to said secondary emissive multiplier electrode.

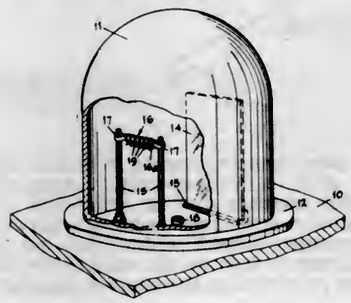
2,589,174
TELEVISION ANTENNA
John J. Wargo, Locust Valley, N. Y.
Application November 1, 1948, Serial No. 57,772
6 Claims. (Cl. 250—33.51)

1. A television antenna comprising a directional receiving element and supporting means including a stationary outer casing, a foldable inner standard of substantially the same length as said outer casing, fixed to said receiving element and rotatable within said outer casing said standard having a joint and said outer casing being hinged at a corresponding point whereby said standard and said casing may be folded over and electrical means for rotating the standard; in combination with transmission means comprising conductive discs fixed on the standard,



insulating discs fixed on the standard, brushes fixed on the outer casing and contacting said conductive discs, and leads connecting said receiving element and said conductive discs, said insulating discs being interposed between and separating the conductive discs from one another, whereby a snowy screen is eliminated.

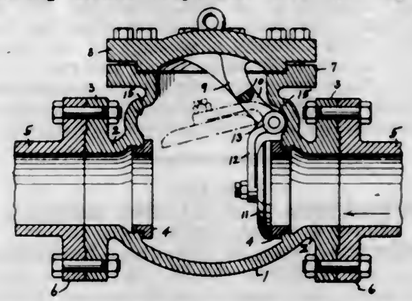
2,589,175
ALUMINUM BASE ALLOY FOR METAL EVAPORATION
Arthur R. Weinrich, Brackenridge, Pa., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application December 28, 1948, Serial No. 67,609
1 Claim. (Cl. 75—138)



An aluminum alloy for thermal evaporation composed of about 2% tungsten and 4% molybdenum, and the balance aluminum.

2,589,176
VALVE ASSEMBLY
Thomas Wheatley, Houston, Tex.
Application April 11, 1946, Serial No. 661,446
2 Claims. (Cl. 251—123)

1. A valve assembly comprising, a valve casing having tubular end connections and an opening in the top thereof, annular valve seats at the inner ends of the connections and spaced apart, said casing having identically shaped inside recesses symmetrically arranged along the axis of flow through said assembly about a central plane perpendicular to said axis and equidistant from the respective seats, a cap detachably mounted on said casing and closing said opening, said cap and casing having registering openings symmetrically arranged about said plane and equidistant from the valve seats and fastening means cooperable with the cap and



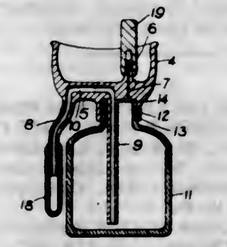
casing in said registering openings for securing the cap on the casing, an arm immovably fixed on said cap and depending from the cap into the casing, a hinge member, pivotal means connecting the hinge member to the free end of the arm, a valve carried by the hinge member and adapted to be aligned axially with either of said seats, said pivotal means being formed to fit snugly into either of said recesses when the valve is in open or closed position.

2,589,177
COMBUSTIBLE CORE FOR FORMING DUCTS IN CONCRETE STRUCTURES
Warner F. Wilhelm and Warren F. Wilhelm, Chicago, Ill.; said Warren F. Wilhelm assignor to Cora M. Wilhelm, Chicago, Ill.
Application March 27, 1948, Serial No. 17,456
4 Claims. (Cl. 25—128)



1. A duct forming member of the character described comprising, in combination, a peripheral water absorptive sheath surrounding a relatively water impervious sheath, said relatively water impervious sheath in turn surrounding a core capable of self-sustained combustion.

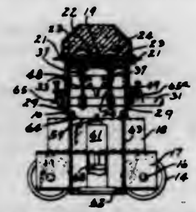
2,589,178
MEDICAMENT APPLICATOR
Harry D. Wintle, Jr., Brooklyn, N. Y.
Application November 15, 1949, Serial No. 127,456
7 Claims. (Cl. 128—249)



1. In a medicament applicator, a member having one face arranged for the mounting of a

medicament container thereon, a tubular projection on the opposite face of the member having a bore extending through said member within the mounting for the medicament container to receive medicament from the container, a tube extending from the first face of the member within the mounting for the medicament container to extend into said container, a second tube extending from the first face of the member exteriorly of the mounting for the medicament container and communicating with the first tube through a passage in the member, and an air bulb mounted on the end of the second tube to exert pressure in the medicament container and force a predetermined quantity of medicament through the tubular projection.

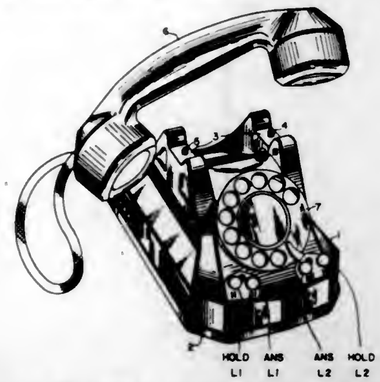
2,589,179
APPARATUS FOR MAKING MOLDS
Durro E. Wood, Jacksonville, Ala.
Application March 16, 1949, Serial No. 81,820
1 Claim. (Cl. 22—25)



In apparatus for making sand molds in open bottom flasks, a pattern table embodying a bed formed of side and end plates secured together, a pattern stripping plate on the top of said bed, means mounted in said plates and supporting a pattern for vertical movement relative to the stripping plate, a secondary frame formed of plates slidably surrounding and contacting the sides and ends of said bed and disposed to support the flask in inverted position relative to the top of said table and pattern, a pair of vertically disposed fluid pressure cylinders embodying pistons and piston rods supported from the side plates and disposed beneath the bed, there being aligned pairs of openings in the side plates forming the bed, inwardly extending members secured to the side plates of said secondary frame and passing through said openings, means to secure said inwardly extending members to the piston rods of their associated pressure cylinders, means to admit fluid under pressure concomitantly to the cylinders thereby to raise the secondary frame with its upper edges projecting above the top of the stripping plate, means to fill the flask and projecting portion of the secondary frame with loose sand, a temporary closure for the bottom of the flask, and means operatively connected with said closure for forcing the secondary frame and the flask downwardly into mold forming relation with the pattern thereby to pack the sand.

2,589,180
MULTILINE TELEPHONE SUBSTATION INSTRUMENT AND CIRCUITS
Fredric E. Wood, McHenry, and Robert L. Sargisson, Berwyn, Ill., assignors to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 10, 1949, Serial No. 98,236
17 Claims. (Cl. 179—99)

1. In a telephone substation set, a first line key having a normal and an operated position, a first hold key individual to said first line key and having a normal and an operated position, a second line key having a normal and an operated position, a second hold key individual to said second line key and having a normal and an operated position, mechanical means responsive to the operation of any one of said hold keys from its normal position to its operated position for restoring the one line key individual to said one operated hold key to its normal position in case



said one line key is in an operated position; and mechanical linkage responsive to the operation of any one of said line keys from its normal position to its operated position for restoring the other line key to its normal position in case said other line key is in an operated position and for restoring the hold key, individual to said one operated line key, to its normal position in case said last mentioned hold key is in an operated position.

2,589,181
PIPE LAYING APPARATUS
Nolen A. Yount, Refugio, Tex.
Application March 3, 1947, Serial No. 732,095
4 Claims. (Cl. 214—1)

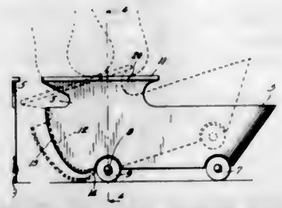


1. A pipe dumper useable in conjunction with laying pipe in well operations comprising an elongated member having cylindrical end portions and an intermediate trough portion, resilient bumpers housed within the end portions, and support structures, the ends of the elongated member journaled in the support structures.

2,589,182
CHILD'S VEHICLE
Joseph S. Zarat, Fox Lake, Ill.
Application August 27, 1949, Serial No. 112,735
5 Claims. (Cl. 280—87.01)

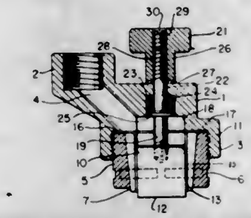
1. A leg-propelled vehicle comprising a substantially horizontal flat seat, a body having side walls on which said seat is supported, a pair of rear ground-engaging wheels rotatable about an axis fixed with respect to said body, and a pair of front ground-engaging wheels rotatable about an axis fixed with respect to said body, said axes being parallel to each other, said seat extending on both sides of the medial vertical fore-and-aft

plane of the vehicle beyond the side walls of the body, the medial portion of the seat being substantially directly above the rear axis, the rear axis being close to the rear end of the body; the height of said seat being greater than the average knee length of persons using such vehicles and less than the average leg length of such persons, whereby the person may extend both legs over a side of the seat, the upper portion of the inner leg resting on the seat and the lower por-



tion of said inner leg hanging down from said seat and with the foot of said inner leg held above the ground level, and the outer leg being used to propel the vehicle by engagement of the foot thereof with the ground, said vehicle being provided with a pair of handles on opposite sides of said medial plane for use in lifting the front wheels from the ground to swing the vehicle about the rear wheels for changing the direction or for use in lifting them to clear an obstruction.

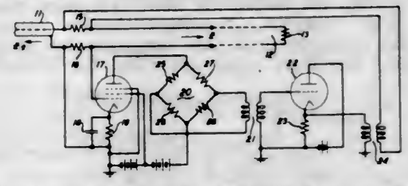
2,589,183
HIGH-PRESSURE JET NOZZLE
Joseph Zielinski, Brooklyn, N. Y.
Application November 12, 1948, Serial No. 59,709
4 Claims. (Cl. 299—150)



1. The combination of a casing having an outlet, a nozzle member in the casing at said outlet, a valve in said member and enveloped thereby, the casing also having an inlet offset from the outlet, and an adjusting stem connected to the valve and projecting to the outside of the casing adjacent said inlet for longitudinally adjusting the valve, the exterior of said nozzle tapering towards the discharge end thereof, and a hollow nut enveloping the nozzle and screw-threaded into the casing at said outlet.

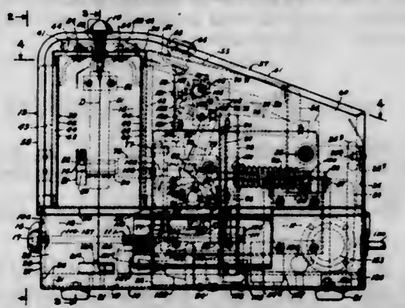
2,589,184
ELECTRONIC IMPEDANCE EQUALIZER
Manvel K. Zinn, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 13, 1949, Serial No. 115,421
14 Claims. (Cl. 178—44)

1. In a transmission system including a transmission line and a terminal load, means for avoiding reflected waves at the junction point of said transmission line and said terminal load, said means comprising a multistage amplifier having the input circuit thereof and the output circuit thereof connected at said junction point, and an interstage coupling circuit included in said amplifier, said interstage coupling circuit comprising an impedance bridge having at least



an arm simulating the characteristic impedance of said transmission line and an arm simulating the impedance of said terminal load.

2,589,185
MACHINE FOR REPROCESSING PHONOGRAPH RECORD DISKS
Nils T. Almquist, New Britain, and Anthony C. De Napoli, Jr., Windsor, Conn., assignors to The Soundscriber Corporation, New Haven, Conn., a corporation of Connecticut
Application July 15, 1949, Serial No. 105,004
6 Claims. (Cl. 18—5.3)

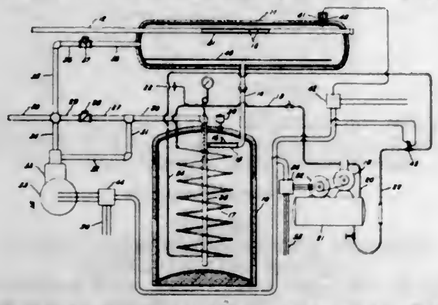


1. In a machine for restoring used thermoplastic phonograph record disks in which grooves have been impressed; a combination of a rotatably mounted holding means for engaging the central portion of a record disk and supporting the disk for rotation about its normal axis, a heating chamber for heating said record disk to erase said grooves therefrom, means mounting said heating chamber for movement into effective position wherein it embraces said disk, and into ineffective position wherein it is separated from the disk, drive means for rotating said holding means and the disk thereon to maintain the disk flat by centrifugal force while the disk is in a heated condition, and means comprising a thermostatic device for holding said drive means inoperative while the temperature of said heating chamber is below a predetermined value.

2,589,186
LIQUID CONDITIONING SYSTEM
Abelardo G. Avila, York, Pa., assignor to Read Standard Corporation, a corporation of Delaware
Application January 20, 1948, Serial No. 3,245
14 Claims. (Cl. 257—2)

3. A liquid conditioning system comprising a main tank and an auxiliary tank, a heat exchange element in said main tank adapted to bring a liquid to be treated and a liquid conditioning medium into heat exchange relation, means for introducing unconditioned liquid into said auxiliary tank, a liquid circulating system connecting said main and auxiliary tanks

adapted for withdrawal of conditioned liquid from said main tank and reintroduction thereof into said auxiliary tank, a medium circulating system for delivering heat exchange medium to said element, thermostatically controlled means responsive to the temperature of liquid in said auxiliary tank arranged for simultaneously controlling operation of said liquid and medium circulating systems, means for withdrawal of conditioned liquid for use as needed, and valve means responsive to withdrawal of conditioned liquid to interrupt passage of conditioned liquid to said auxiliary tank while conditioned liquid is being withdrawn.



2,589,187

DESULFURIZING AGENT AND ITS PREPARATION

Elwood B. Backensto, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application October 2, 1947, Serial No. 777,600
9 Claims. (Cl. 252—192)

4. A solution for the extraction of free sulfur and sulfhydryls from hydrocarbon fluids which comprises an aqueous alkaline solution to which has been added a water-insoluble fraction of the steam distillate of thiophene tar in amount effective to increase the capability of said aqueous alkaline solution to dissolve sulfhydryls, said fraction of said steam distillate having a boiling range of about 127° to about 168° F. at an absolute pressure of 10 millimeters of mercury; said thiophene tar having been obtained by separately preheating sulfur and a C_4-hydrocarbon selected from the group consisting of normal butane, normal butenes and butadienes to a temperature such that combining said sulfur and said hydrocarbon will give a reaction mixture having a temperature varying between about 850° F. and about 1400° F., mixing the preheated sulfur and the preheated hydrocarbon, reacting said preheated sulfur and said preheated hydrocarbon at a reaction temperature varying between 850° F. and about 1400° F. to yield a mixture containing a thiophene tar, immediately reducing the temperature of said mixture containing said thiophene tar to a temperature of less than 850° F., and separating said tar from said mixture.

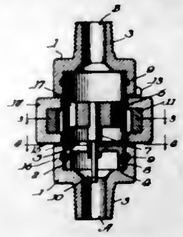
2,589,188

PERMANENT MAGNET OPERATED VALVE

Edmond P. De Craene, Westchester, and Edward G. Schmidt, Western Springs, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois

Application July 16, 1947, Serial No. 761,262
3 Claims. (Cl. 137—139)

2. In a magnetically operated valve, the combination comprising a substantially cylindrical body having inlet and outlet ports, end positioned means for sealing the said body, the said body having a ported valve seat stationary to the said body, a rotatable closure member movable relative to the said seat and guided by the said seat, an inner magnet non-rotatably connected to the said closure member for rotation within the said body with the said closure member, an outer magnet around the outer periphery of said body positioned in a plane below that of the said inner magnet, annularly formed actuating means for rotating the said outer magnet relative to the said body and inner magnet, the said inner magnet being positioned in the normal path of flow through the said body and having relieved portions on its outer periphery to provide ports for fluid flow between the body and magnet.



2,589,189

SILICA-ALUMINA-GROUP VIII METAL CATALYST

Frank G. Ciapetta, Llanerch Hills, and William H. Buck, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application August 17, 1949, Serial No. 110,874
4 Claims. (Cl. 252—455)

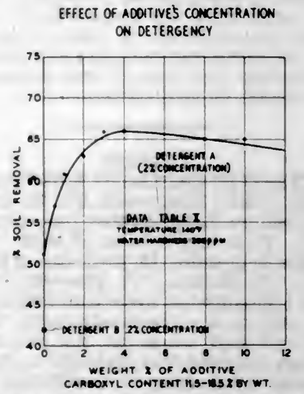
1. A catalyst composition consisting essentially of a synthetic silica alumina agent ranging between 80%–95% silica gel and 5%–20% of alumina, impregnated with 0.1%–10% by weight of a metal of Group VIII of the periodic system.

2,589,190

DETERGENT COMPOSITION

John E. Hanson, Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application July 29, 1947, Serial No. 764,399
7 Claims. (Cl. 252—161)



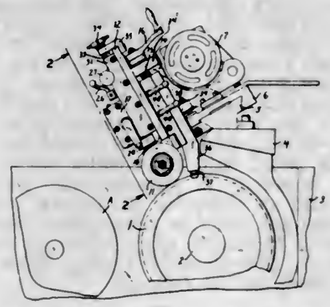
1. A detergent composition comprising an alkaryl sulfonate detergent containing from 8 to 20 carbon atoms in the alkyl chain and a minor amount of a water-soluble, alkali metal salt of a celluronic acid, sufficient to enhance the detergency characteristics of said sulfonate detergent and being from at least 0.5% to less than 50% by weight of the solid constituents thereof, the carboxyl content of said celluronic acid salt being from about 7 to about 20% by weight based on the acid.

2,589,191

GROOVE DRESSING TOOL

Charles A. Laase, Genoa, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application November 10, 1947, Serial No. 784,970
7 Claims. (Cl. 51—254)



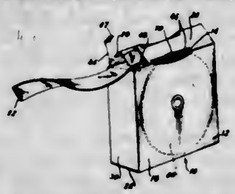
1. A grinding machine comprising a guide wheel having a helical work piece engaging surface and provided with a complementary guide channel adjacent the work piece engaging surface; a grinder to dress said work piece engaging surface; a follower operable in the guide channel; and means connecting the follower and grinder so that the path of movement of the grinder will be that imposed thereon by said follower as it is moved through said channel.

2,589,192

RETRACTABLE RIBBON DISPENSER

John McLean Johnston, Elkins Park, Pa., assignor to The Bethlehem Silk Company, New York, N. Y., a corporation of Pennsylvania

Application July 7, 1949, Serial No. 103,417
2 Claims. (Cl. 206—52)



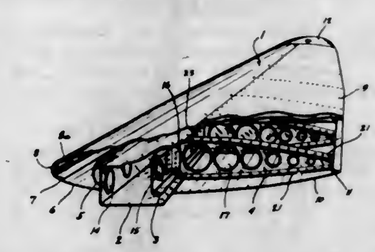
1. A ribbon dispenser comprising a casing and a reel; the reel comprising a hub and a pair of circular flanges fixed to the ends thereof; the casing comprising a front wall, a rear wall, and a top, a bottom, and two side wall panels connecting and spacing apart the front and rear walls, a pair of lengthwise extending openings in the top panel and on opposite sides thereof in axial alignment with the reel flanges; said reel being rotatably mounted within the casing with the hub journalled in and with the flanges parallel to the front and rear walls, portions of the reel flanges extending upwardly of the front and rear walls through the lengthwise extending openings in the top panel, said extended flange portions being manually engageable for rotation of the reel.

2,589,193

AIRFOIL, AND PARTICULARLY HELICOPTER BLADE

Robert Mayne, Akron, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware

Application November 29, 1946, Serial No. 713,157
8 Claims. (Cl. 244—134)



1. The combination in an airfoil of a main spar of stainless steel, a unitary, high strength stainless steel metal sheet formed to provide a monocoque structure for substantially the forward third of the airfoil and secured to the spar, ribs extending rearwardly of the spar, and a plastic laminate having a very thin surface covering of stainless steel secured to the ribs and to the spar and acting as the skin for the remainder of the airfoil, the total thickness of said laminate being smaller than the thickness of said unitary metal sheet.

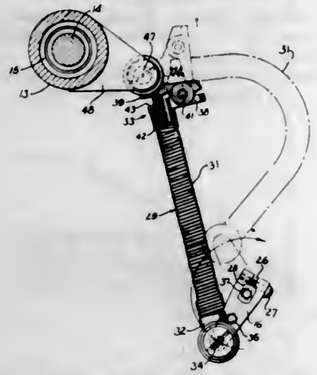
4. A helicopter rotor blade adapted to be heated with gases for deicing including a forward spar having substantially a U-shape in cross-section, an aft spar also having a U-shape in cross-section being nested in the forward spar, the legs of both spars extending rearwardly and the spar webs being spaced from each other to form a box-like structure, a spar root closely fitting into and being secured to said structure for attachment to a blade operating mechanism, an elongated sheet or plate curved across its width to form a leading edge skin and having its opposite edges overlapping the respective legs of the forward spar so as to substantially cover said spar, a baffle plate welded longitudinally to the front and the full length of the forward spar and forming together with the leading edge skin a hot gas duct, a reinforcing plate running along the inside of and being spotwelded to the leading edge skin, a central longitudinal heat transfer fin united with the reinforcing plate, a counterweight made of material having a low melting point being cast into said reinforcing plate, ribs connected to and extending rearwardly of the aft spar and connected also to the legs of the forward spar, bottom and top skins extending from the leading edge skin over the ribs to the trailing edge, each of the bottom and top skins comprising a laminate having surfaces of thin stainless steel and a fibre-reinforced plastic filler of a total thickness less than that of the leading edge skin, a reinforced plastic trailing edge strip of wedge-shape in cross-section to which the laminated skins are adhesively secured in contact with their plastic filler, an inlet for carrying hot gases to said duct at the root end of the blade, and a blade tip provided with an opening communicating with said hot gas duct for exhausting heating gases carried therein.

2,589,194

OVERLOAD RELEASE MECHANISM

Archie J. McMaster and William H. Kitto, Chicago, Ill., assignors to G-M Laboratories, Inc., Chicago, Ill., a corporation of Illinois

Application January 12, 1949, Serial No. 70,576
9 Claims. (Cl. 74—70)



1. An overload release mechanism comprising a driving member, a driven member, a link pivotally connected to said members, at least a portion of said link comprising a helical spring having its axis aligned with said pivots, and means responsive to more than a predetermined pressure for shifting the position of one of said pivots with respect to the axis of the link, whereby to cause the same to collapse under load, said last mentioned means comprising a pair of mutually pivoted toggle members, one carrying said pivot and the other secured to the link, and a compression spring between said toggle members and normally holding the same in a position to maintain said pivot and link axis in alignment.

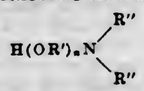
2,589,195

PROCESSES FOR INHIBITING SCALE DEPOSITION

Louis T. Monson, Alhambra, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application March 14, 1949, Serial No. 81,401
22 Claims. (Cl. 210—23)

1. A process for preventing, reducing and removing the deposition of hard-water scale from the surfaces of equipment of an aqueous scale-forming media system by applying to the aqueous scale-forming media system a reagent comprising an acylated derivative of a basic aminoalcohol, the parent aminoalcohol having the formula:



said derivative being such that there is at least one occurrence of the radical RCO, which is the acyl radical of a monocarboxy detergent-forming acid having at least 8 and not more than 32 carbon atoms; the amino nitrogen atom is basic; R'' is a member of the class consisting of alkanol radicals, aminoalkanol radicals, and polyaminoalkanol radicals, in which polyaminoalkanol radicals the amino nitrogen atoms are united by divalent radicals selected from the class consisting of alkylene radicals, alkyleneoxyalkylene radicals, hydroxyalkylene radicals, and hydroxyalkyleneoxyalkylene radicals, and all remaining amino nitrogen valences are satisfied by hydroxyalkyl radicals, including those in which the carbon atom chain is interrupted at least once by an oxygen atom; R' is an alkylene radical having at least 2 and not more than 10 carbon atoms; and n is a small whole number varying from 1 to 10.

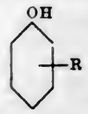
2,589,196

MIXTURE OF SURFACE-ACTIVE MATERIALS AND METHOD OF MAKING SAME

Louis T. Monson, Alhambra, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Original application June 2, 1948, Serial No. 30,726. Divided and this application June 8, 1949, Serial No. 97,932
7 Claims. (Cl. 260—19)

1. A mixture comprising: (A) hydrophile synthetic oxyalkylated derivatives prepared from (*a*) an alpha-beta alkylene oxide having not more than 4 carbon atoms and selected from the class consisting of ethylene oxide, propylene oxide, butylene oxide, glycide, and methylglycide, and (*b*) an oxyalkylation-susceptible, fusible, organic-solvent-soluble, water-insoluble phenol-aldehyde resin; said resin being derived by reaction between a difunctional monohydric phenol and an aldehyde having not over 8 carbon atoms and reactive toward said phenol; said resin being formed in the substantial absence of phenols of functionality greater than 2; said phenol being of the formula



in which R is a hydrocarbon radical having at least 4 and not more than 8 carbon atoms and substituted in the 2,4,6 position; said oxyalkylated resin being characterized by the introduction into the resin molecule at the phenolic hydroxyls of a plurality of divalent radicals having the formula $(R_1O)_n$, in which R_1 is a member selected from the class consisting of ethylene radicals, propylene radicals, butylene radicals, hydroxypropylene radicals, and hydroxybutylene radicals, and n is a numeral varying from 1 to 20; with the proviso that at least 2 moles of alkylene oxide be introduced for each phenolic nucleus; and with the final proviso that the hydrophile properties of said oxyalkylated resin in an equal weight of xylene are sufficient to produce an emulsion when said xylene solution is shaken vigorously with from one to three volumes of water; (B) an acylated amino-ether containing: (*a*) a radical derived from a basic hydroxyamino-ether, and said radical being of the kind containing at least one amino nitrogen free from attached aryl and amido-linked acyl radicals; said hydroxyamino-ether radical being further characterized by the presence of at least one radical derived from a basic hydroxyamine and being attached by at least one ether linkage to at least one radical selected from the class consisting of glycerol radicals, polyglycerol radicals, polyglycol radicals, basic hydroxyamine radicals, amido hydroxyamine radicals, and aryl alkanolamine radicals; said basic hydroxyamino-ether radical being characterized by containing not over 60 carbon atoms; and (*b*) an acyl radical derived from a detergent-forming monocarboxy acid having at least 8 carbon atoms and not more than 32 carbon atoms; said acylated amino-ether being additionally characterized by the fact that said aforementioned acyl radical is a substituent for a hydrogen atom of an alcoholic hydroxyl radical; (C) a blown fatty body selected from the class consisting of blown fatty oils and blown fatty acids; the proportions of A, B, and C, respectively, constituting not less than 10% each of the total active matter of said reagent.

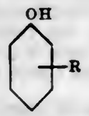
2,589,197

MIXTURE OF SURFACE-ACTIVE MATERIALS AND METHOD OF MAKING SAME

Louis T. Monson, Alhambra, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Original application June 2, 1948, Serial No. 30,727. Divided and this application June 8, 1949, Serial No. 97,933
7 Claims. (Cl. 260—19)

1. A mixture comprising: (A) hydrophile synthetic oxyalkylated derivatives prepared from (*a*) an alpha-beta alkylene oxide having not more than 4 carbon atoms and selected from the class consisting of ethylene oxide, propylene oxide, butylene oxide, glycide, and methylglycide, and (*b*) an oxyalkylation-susceptible, fusible, organic-solvent-soluble, water-insoluble phenol-aldehyde resin; said resin being derived by reaction between a difunctional monohydric phenol and an aldehyde having not over 8 carbon atoms and reactive toward said phenol; said resin being formed in the substantial absence of phenols of functionality greater than two; said phenol being of the formula



in which R is a hydrocarbon radical having at least 4 and not more than 8 carbon atoms and substituted in the 2,4,6 position; said oxyalkylated resins being characterized by the introduction into the resin molecule at the phenolic hydroxyls of a plurality of divalent radicals having the formula $(R_1O)_n$, in which R_1 is a member selected from the class consisting of ethylene radicals, propylene radicals, butylene radicals, hydroxypropylene radicals, and hydroxybutylene radicals, and n is a numeral varying from 1 to 20; with the proviso that at least 2 moles of alkylene oxide be introduced for each phenolic nucleus; and with the final proviso that the hydrophile properties of said oxyalkylated resin in an equal weight of xylene are sufficient to produce an emulsion when said xylene solution is shaken vigorously with from one to three volumes of water; (B) an acylated amino-ether containing: (*a*) a radical derived from a basic hydroxyamino-ether, and said radical being of the kind containing at least one amino nitrogen free from attached aryl and amido-linked acyl radicals; said hydroxyamino-ether radical being further characertized by the presence of at least one radical derived from a basic hydroxyamine and being attached by at least one ether linkage to at least one radical selected from the class consisting of glycerol radicals, polyglycerol radicals, polyglycol radicals, basic hydroxyamine radicals, amido hydroxyamine radicals, and aryl alkanolamine radicals; said basic hydroxyamino-ether radical being characterized by containing not over 60 carbon atoms, and (*b*) an acyl radical derived from a detergent-forming monocarboxy acid having at least 8 carbon atoms and not more than 32 carbon atoms; said acylated amino-ether being additionally characterized by the fact that said aforementioned acyl radical is a substituent for a hydrogen atom of an alcoholic hydroxyl radical; (C) a blown fatty body selected from the class consisting of blown fatty oils and blown fatty acids; (D) a sulfonated fatty body selected from the class consisting of sulfonated fatty oils and sulfonated fatty acids substantially neutral to methyl orange indicator; the proportions of A, B, C, and D, respectively, constituting not less than 10% each of the total active matter of said reagent.

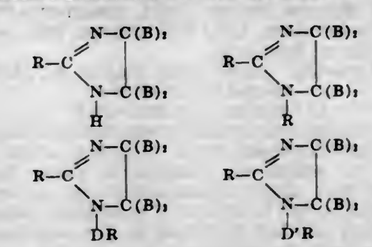
2,589,198

PROCESS FOR BREAKING OIL-IN-WATER EMULSIONS

Louis T. Monson, Los Angeles County, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application April 12, 1950, Serial No. 155,560
20 Claims. (Cl. 252—344)

1. A process for breaking emulsions composed of oil dispersed in a non-oily continuous phase, in which the dispersed phase is not greater than 20%, characterized by subjecting the emulsion to the action of a reagent comprising a substituted imidazoline selected from the class consisting of:



in which B represents at least one member selected from the class consisting of hydrogen and low molal alkyl radicals having less than 8 carbon atoms; D represents a divalent, non-amino, organic radical containing less than 25 carbon atoms and composed of elements selected from the group consisting of C, H, O, and N; D' represents a divalent, organic radical containing less than 25 carbon atoms and composed of elements selected from the class consisting of C, H, O, and N, and containing at least one amino group; and R is a member selected from the class consisting of hydrogen and aliphatic and cycloaliphatic hydrocarbon radicals; with the proviso that at least one occurrence of R contains from 8 to 32 carbon atoms.

2,589,199

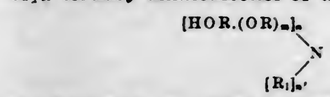
PROCESS FOR BREAKING EMULSIONS OF THE OIL-IN-WATER CLASS

Louis T. Monson, Puente, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application August 26, 1950, Serial No. 181,698
13 Claims. (Cl. 252—344)

1. A process for breaking emulsions composed of an oil dispersed in a non-oily continuous phase, in which the dispersed phase is not greater than 20%, characterized by subjecting the emulsion to the action of a reagent including a reaction product produced by the reaction between a poly-halogenated non-ionized organic compound in which the halogen atoms are not directly attached to an aromatic ring and a surface-active condensation polymer of mean molecular weight not in excess of 2,000, which latter

is in turn obtained by the heat-polymerization of a tertiary aminoalcohol of the formula:



in which formula, OR is an alkylene oxide radical having not more than 4 carbon atoms and selected from the class consisting of ethylene oxide radicals, propylene oxide radicals, butylene oxide radicals, glycide radicals, and methylglycide radicals; R_1 is a non-aromatic hydrocarbon radical having 6 carbon atoms or less; m represents a number varying from 0 to 3; n represents the numeral 1, 2, or 3;and n' represents the numeral 0, 1, or 2, with the proviso that $n+n'=3$; said reaction resulting in the conversion, per molecule of poly-halogenated reactant, of not more than one halogen atom from the co-valent to the electro-valent state.

2,589,200

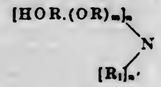
PROCESS FOR BREAKING EMULSIONS OF THE OIL-IN-WATER CLASS

Louis T. Monson, Puente, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application August 26, 1950, Serial No. 181,699

13 Claims. (Cl. 252—344)

1. A process for breaking emulsions composed of an oil-dispersed in a non-oily continuous phase, in which the dispersed phase is not greater than 20%, characterized by subjecting the emulsion to the action of a reagent including a reaction product produced by the reaction between a poly-halogenated non-ionized organic compound in which the halogen atoms are not attached directly to an aromatic ring and a surface-active condensation polymer of mean molecular weight not in excess of 2,000, which latter is in turn obtained by the heat-polymerization of a tertiary aminoalcohol of the formula:



in which formula, OR is an alkylene oxide radical having not more than 4 carbon atoms and selected from the class consisting of ethylene oxide radicals, propylene oxide radicals, butylene oxide radicals, glycide radicals, and methylglycide radicals; R_1 is a non-aromatic hydrocarbon radical having 6 carbon atoms or less; m represents a number varying from 0 to 3; n represents the numeral 1, 2, or 3; and n' represents the numeral 0, 1, or 2, with the proviso that $n+n'=3$; said reaction resulting in the conversion, per molecule of poly-halogenated reactant, of at least two halogen atoms from the co-valent to the electro-valent state.

2,589,201

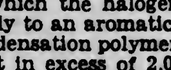
PROCESS FOR BREAKING EMULSIONS OF THE OIL-IN-WATER CLASS

Louis T. Monson, Puente, Calif., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

No Drawing. Application August 26, 1950, Serial No. 181,700

24 Claims. (Cl. 252—329)

1. A process for breaking emulsions composed of an oil dispersed in a non-oily continuous phase, in which the dispersed phase is not greater than 20%, characterized by subjecting the emulsion to the action of a mixture including (A) a reaction product produced by the reaction between a poly-halogenated non-ionized organic compound in which the halogen atoms are not attached directly to an aromatic ring and a surface-active condensation polymer of mean molecular weight not in excess of 2,000, which latter is in turn obtained by the heat-polymerization of a tertiary aminoalcohol of the formula:



in which formula, OR is an alkylene oxide radical having not more than 4 carbon atoms and selected from the class consisting of ethylene oxide radicals, propylene oxide radicals, butylene oxide radicals, glycide radicals, and methylglycide radicals; R_1 is a non-aromatic hydrocarbon radical having 6 carbon atoms or less; m represents a number varying from 0 to 3; n represents the numeral 1, 2, or 3; and n' represents the numeral 0. 1, or 2, with the proviso that $n+n'=3$; (B) a multi-polar, substantially unionized colloid of distributed hydrophile character; and (C) a soluble metallic salt, the total active matter of such reagent including at least 10% of each class of ingredient.

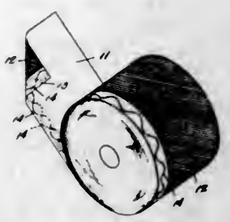
2,589,202

MANIFOLDING

Douglas A. Newman, Sea Cliff, N. Y., assignor to Columbia Ribbon and Carbon Manufacturing Company, Inc., Glen Cove, N. Y., a corporation of New York

Application August 28, 1948, Serial No. 46,570

12 Claims. (Cl. 282—19)



1. As a new article of manufacture a transfer medium for manifolding use comprising a web of fabric having a coating of transfer composition thereon, a longitudinally extending portion of said web being free of transfer material and carrying thereon an application of dry, normally inactive adhesive, said adhesive application having a continuous sinuous configuration of regular peak spacing whereby the web may be wound without damage to itself.

2,589,203

REINFORCED SAIL

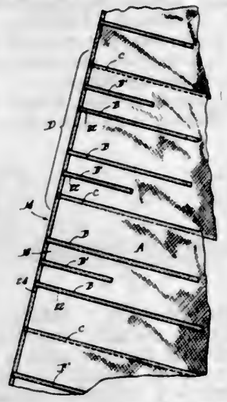
Martin L. Nilsen, Chicago, Ill.

Application October 12, 1949, Serial No. 120,879

3 Claims. (Cl. 114—103)

1. A sail of the fore and aft type having a head, a tack, a clew, a leech, a luff, and a foot, said sail consisting of a plurality of smooth surfaced elongated sections of fabric of uniform thickness stitched together along overlapping elongated selvedged margins, said sections in the aggregate presenting a completely shaped sail body, relatively narrow fabric strips stitched

to and lying in flush, intimate, flatwise relation against the sail body intermediate certain of said overlapping margins with the opposed longitudinal margins of each fabric strip folded under a substantial amount to afford reinforcement, each strip positioned in substantial parallelism with said margins and extending substantially throughout the length of the com-



plementary smooth surfaced fabric sail section to which it is stitched, the flatwise, intimate association of the undersurface of each strip with the adjacent smooth surface of its juxtaposed sail section and the aforesaid disposition thereof with respect to the sail body providing both reinforcement and a sail surface free of localized deformations when said sail body is under wind action.

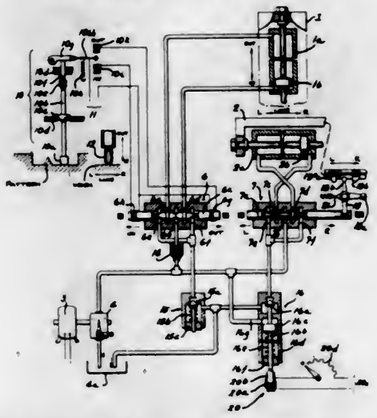
2,589,204

COPYING MACHINE

Fred A. Parsons, Milwaukee, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin

Application November 9, 1945, Serial No. 627,685

13 Claims. (Cl. 90—13.5)



1. In a hydraulic control system for a machine including an in-out support and a line support disposed for relative movement to said in-out support, two hydraulic motors for movement of the different supports respectively, driving means including a power driven pump and channels connecting said pump for simultaneous actuation of said motors, reverser valve means for the in-out support motor, back-pressure valve means adjustable for variably opposing the line support motor, operating connections for the control of said reverser valve means to effect repeated cycles of alternate acceleration and deceleration force on said in-out support motor, and one-way valve means connected in the channel to said reverser valve means and operable during the deceleration force phases of said cycles to apply some of the energy of momentum of some of the decelerated parts to assist in the deceleration result.

2,589,205

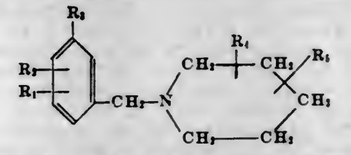
1-BENZYLPIPERIDINE COMPOUNDS

Albert Pohland, Indianapolis, Ind., assignor to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana

No Drawing. Application October 12, 1949, Serial No. 121,068

8 Claims. (Cl. 260—293.4)

1. A compound of the class consisting of a base and its acid addition salts, the said base having the formula:



in which R_1 and R_2 are members of the group consisting of hydrogen, hydroxy, unsubstituted aliphatic hydrocarbon radicals having from 1 to 8 carbon atoms, oxygen-linked unsubstituted aliphatic hydrocarbon radicals having from 1 to 8 carbon atoms, and sulfur-linked unsubstituted aliphatic hydrocarbon radicals having from 1 to 8 carbon atoms; R_3 is a member of the group consisting of hydroxy, unsubstituted aliphatic hydrocarbon radicals having from 1 to 8 carbon atoms, oxygen-linked unsubstituted aliphatic hydrocarbon radicals having from 1 to 8 carbon atoms, and sulfur-linked unsubstituted aliphatic hydrocarbon radicals having from 1 to 8 carbon atoms; R_4 is a lower alkyl radical; and R_5 is a member of the group consisting of hydrogen and lower alkyl radicals.

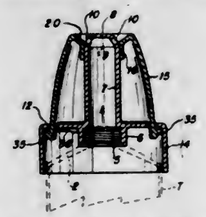
2,589,206

COMBINED CLOSURE AND DISPENSING APPLICATOR FOR COLLAPSIBLE TUBES

John B. Tegarty, Buffalo, N. Y., assignor to Justin W. Macklin, Cleveland, Ohio, as trustee

Application November 9, 1946, Serial No. 708,841

10 Claims. (Cl. 222—205)

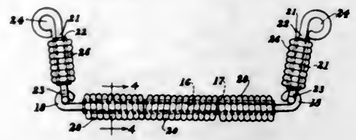


1. An applicator and closure for use with a collapsible tube having a discharge opening, and comprising a base member provided with securing means for attachment to the tube, and having an outwardly extending member having a skirt turned toward and adapted to engage the end of the collapsible tube, said member being provided with arcuate openings in said outwardly extending member within the skirt, a cap member having projections extending through said

arcuate openings and engaging the outwardly extending member on the side toward the tube, the cap member having a valve surface, and a projecting passage member rigid with the base member leading from the threaded nipple and having an eccentric opening, said eccentric openings being positioned to register in one position of the cap, the cap member being adapted to turn, thus moving the projections within the arcuate openings and closing the delivery passage at the valve surface.

9. A closure and applicator device adapted to be rigidly secured to the delivery nipple on a collapsible tube, and comprising a head member provided with means for embracing and coacting with the tube nipple, said means having an outwardly laterally extending support, a cup-like cap member rotatably engaging said support and having laterally turned hooks at its edge, inwardly facing arcuate guide surfaces on said support, cam surfaces adjacent the arcuate surfaces at the side thereof opposite the cap and adapted to be engaged by the hooks, the cap member having a transverse material spreading and applying face having rounded edges at the perimeter thereof and an eccentric opening through the face, a tubular extension on said head member having an eccentric opening adapted to register with said cap opening and to be opened in one position of the cap and be closed in another position of the cap and adapted to communicate with the discharge opening of the collapsible tube.

2,589,207
ANTISKID DEVICE
James G. Welsh, Jr., Somerville, Mass., assignor, by direct and mesne assignments, of fifteen per cent to Anthony Angelini, Torrington, Conn., and forty-five per cent to Friedrich K. Voellmecke and twenty per cent to Edward J. Doyle, both of Boston, Mass.
Application March 5, 1948, Serial No. 13,158
9 Claims. (Cl. 152—225)

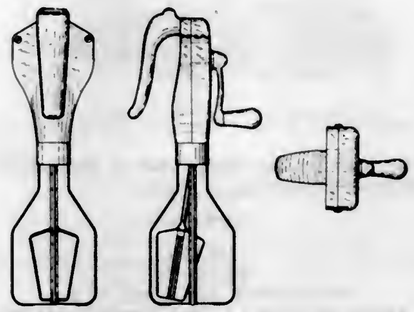


1. A traction device for a vehicle wheel comprising a retaining member embodying a tread portion and opposite side portions, a tread member rotatably mounted on said retaining member, side friction members rotatably mounted on said retaining member side portions, and connecting means at the ends of said retaining member.

DESIGNS

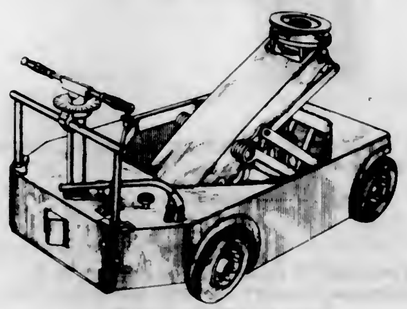
MARCH 11, 1952

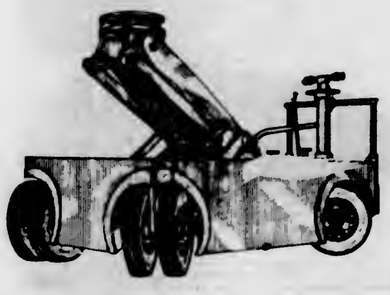
166,111
KITCHEN MIXER
Alwin Kost, Portland, Oreg.
Application July 31, 1950, Serial No. 11,499
Term of patent 14 years
(Cl. D44—1)



The ornamental design for a kitchen mixer, as shown.

166,112
CAMERA DOLLY
Steve Krilanovich, North Hollywood, Calif.
Application September 20, 1951, Serial No. 16,690
Term of patent 14 years
(Cl. D14—3)





The ornamental design for a camera dolly, substantially as shown.

166,113
TEXTILE FABRIC
Ben Leerer, New York, N. Y.
Application March 8, 1951, Serial No. 14,428
Term of patent 3½ years
(Cl. D92—1)



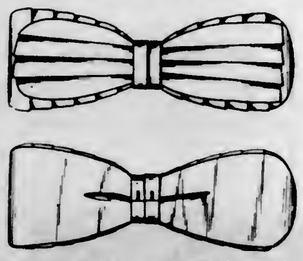
The ornamental design for a textile fabric, substantially as shown and described.

166,114
BALL POINT PENCIL
Valtin H. Lust, Ridgefield Park, N. J.
Application December 13, 1950, Serial No. 13,424
Term of patent 14 years
(Cl. D74—24)



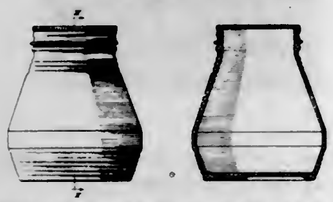
The ornamental design for a ball point pencil, as shown and described.

166,115
BOW TIE
Joseph Melville, Long Beach, N. Y.
Application June 6, 1951, Serial No. 15,435
Term of patent 7 years
(Cl. D3—16)



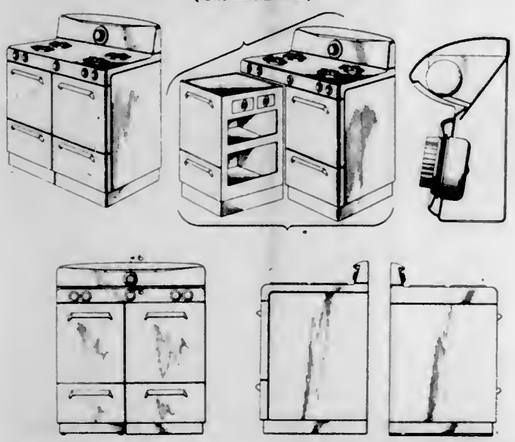
The ornamental design for a bow tie, substantially as shown and described.

166,116
JAR
Samuel W. Menefee, Jr., Manheim Township, Lancaster County, Pa., assignor to H. J. Heinz Company, a corporation of Pennsylvania
Application July 21, 1949, Serial No. 4,055
Term of patent 14 years
(Cl. D58—25)



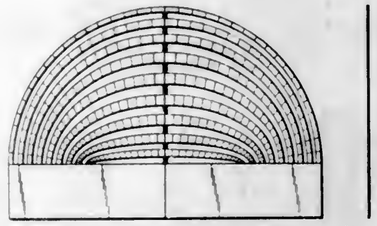
The ornamental design for a jar, as shown and described.

166,117
RANGE
James A. Nelson, Elmhurst, George W. Kamin, Lombard, and Lawrence E. Wolske, Chicago, Ill., assignors to Cribben and Sexton Company, Chicago, Ill., a corporation of Illinois
Application February 24, 1950, Serial No. 8,104
Term of patent 14 years
(Cl. D81—4)



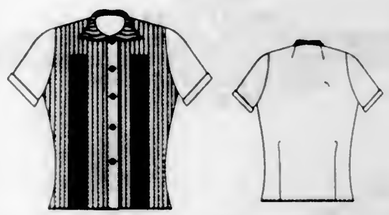
The ornamental design for a range, as shown.

166,118
PROTRACTOR FOR AXONOMETRIC DRAWING
Charles B. O'Connor, Arlington, Mass.
Application October 2, 1951, Serial No. 16,808
Term of patent 7 years
(Cl. D52—1)



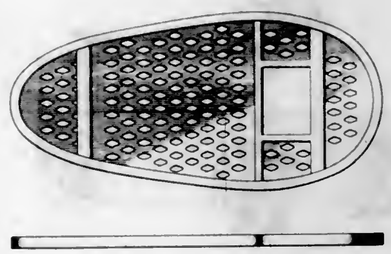
The ornamental design for a protractor for axonometric drawing, as shown.

166,119
BLOUSE
Jack Orloff, New York, N. Y.
Application June 4, 1951, Serial No. 15,409
Term of patent 3½ years
(Cl. D3—25)



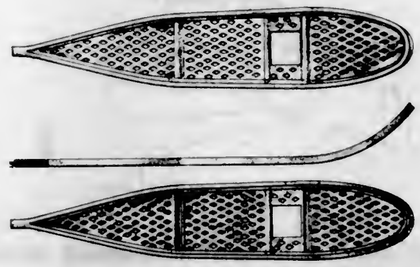
The ornamental design for a blouse, substantially as shown.

166,120
SNOWSHOE
Frederick T. Paden, Collingswood, N. J.
Application January 10, 1950, Serial No. 7,105
Term of patent 7 years
(Cl. D34—14)



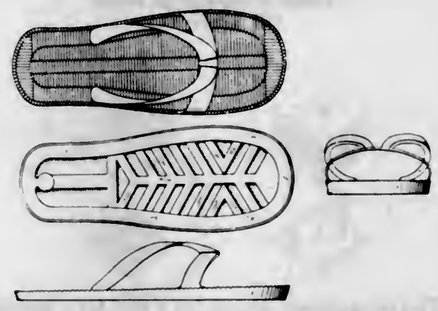
The ornamental design for a snowshoe, as shown and described.

166,121
SNOWSHOE
Frederick T. Paden, Collingswood, N. J.
Application October 31, 1950, Serial No. 12,788
Term of patent 7 years
(Cl. D34—14)



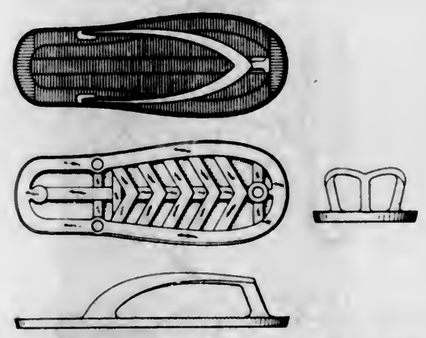
The ornamental design for a snowshoe, as shown.

166,122
SANDAL
Ray J. Pastine, San Francisco, Calif.
Application November 24, 1951, Serial No. 17,514
Term of patent 3½ years
(Cl. D7—7)



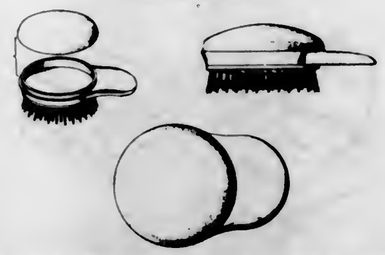
The ornamental design for a sandal, substantially as shown.

166,123
SANDAL
Ray J. Pastine, San Francisco, Calif.
Application November 24, 1951, Serial No. 17,515
Term of patent 3½ years
(Cl. D7—7)



The ornamental design for a sandal, substantially as shown.

166,124
SCALP MASSAGE BRUSH OR SIMILAR ARTICLE
Woodrow W. Pearce, Los Angeles, Calif.
Application September 25, 1950, Serial No. 12,332
Term of patent 14 years
(Cl. D83—1)



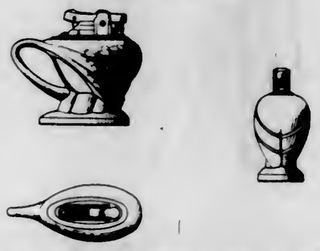
The ornamental design for a scalp massage brush or similar article, substantially as shown.

166,125
WOVEN PLASTIC FABRIC
Vaclav Petracek, Long Island City, N. Y., assignor to Hafner Associates, Inc., New York, N. Y.
Application October 10, 1951, Serial No. 16,890
Term of patent 3½ years
(Cl. D87—3)



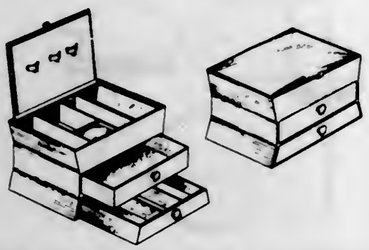
The ornamental design for a woven plastic fabric, substantially as shown.

166,126
TABLE LIGHTER
Paul Pouliot, Montreal, Quebec, Canada, assignor to Presto Lighters Limited, Montreal, Quebec, Canada
Application February 14, 1951, Serial No. 14,212
Term of patent 3½ years
(Cl. D48—27)



The ornamental design for a table lighter, as shown.

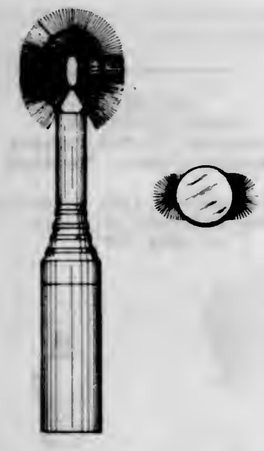
166,127
SEWING CHEST
Isidore Rothstein, Bronx, N. Y., assignor to Kate Jacobson, Bronx, N. Y.
Application July 15, 1950, Serial No. 11,215
Term of patent 3½ years
(Cl. D3—19)





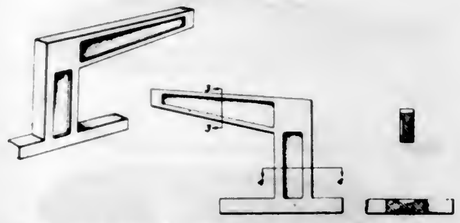
The ornamental design for a sewing chest, substantially as shown and described.

166,128
FOUNTAIN BRUSH
Earl C. Rowser, Detroit, and Edward M. Apple, Grosse Pointe Woods, Mich.
Application September 24, 1951, Serial No. 16,729
Term of patent 7 years
(Cl. D9—2)



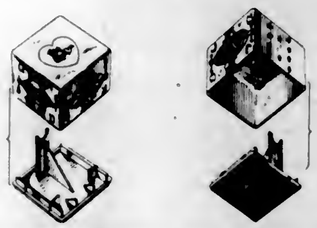
The ornamental design for a fountain brush, as shown.

166,129
PRECAST CONCRETE BUILDING FRAME MEMBER
David Rubenstein, San Diego, Calif.
Application February 19, 1951, Serial No. 14,271
Term of patent 14 years
(Cl. D51—1)



The ornamental design for a precast concrete building frame member, as shown.

166,130
BOX FOR A PERFUME BOTTLE OR SIMILAR ARTICLE
John Saville, Watford, England, assignor to Saville Perfumery Limited, Watford, England, a British company
Application April 4, 1951, Serial No. 14,712
In Great Britain October 9, 1950
Term of patent 14 years
(Cl. D58—12)



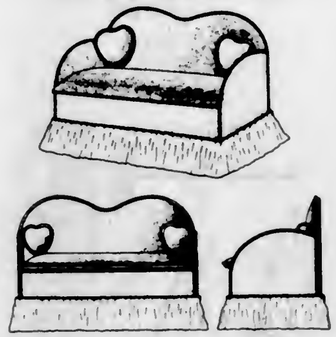
The ornamental design for a box for a perfume bottle or similar article, substantially as shown.

166,131
STOCKING
Stanley Sell, Stroudsburg, Pa., assignor to Holiday Hosiery Corp., New York, N. Y., a corporation of New York
Application March 8, 1951, Serial No. 14,418
Term of patent 14 years
(Cl. D47—7)



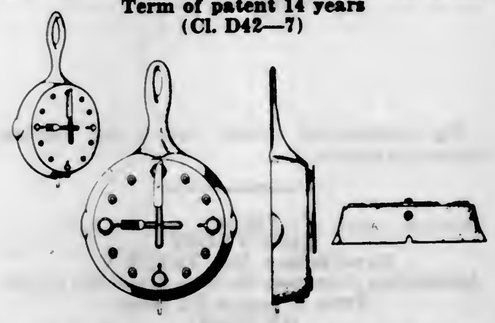
The ornamental design for a stocking, substantially as shown.

166,132
BOX
George Siegel, Newark, N. J.
Application June 13, 1951, Serial No. 15,521
Term of patent 3½ years
(Cl. D58—14)



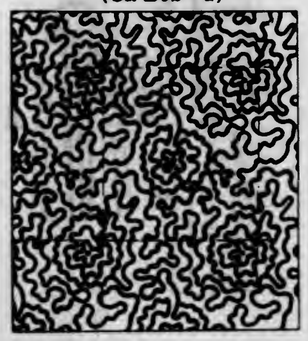
The ornamental design for a box, as shown.

166,133
SKILLET CLOCK
Russell E. Sievert, North Hollywood, Calif.
Application September 10, 1951, Serial No. 16,586
Term of patent 14 years
(Cl. D42—7)



The ornamental design for a skillet clock, substantially as shown and described.

166,134
CHENILLE TEXTILE FABRIC
Larry Silberberg, New York, N. Y.
Application December 14, 1951, Serial No. 17,730
Term of patent 7 years
(Cl. D92—1)



The ornamental design for a chenille textile fabric, substantially as shown and described.

166,135
ARTIFICIAL CHRISTMAS TREE
Ludwig Stark, Springfield, N. J.
Application September 12, 1951, Serial No. 16,613
Term of patent 7 years
(Cl. D29—1)



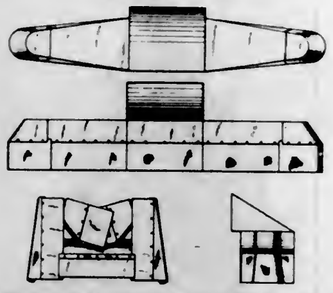
The ornamental design for an artificial Christmas tree, as shown.

166,136
SHOE
Seymour Troy, New York, N. Y.
Application October 22, 1951, Serial No. 17,060
Term of patent 3½ years
(Cl. D7—7)



The ornamental design for a shoe, substantially as shown and described.

166,137
FERTILIZER SPREADER HOOD
Solomon D. Ulrich, Shelbyville, Ill., assignor to Aubrey L. Jones, Stewardson, Ill.
Application July 29, 1949, Serial No. 4,189
Term of patent 14 years
(Cl. D35—2)

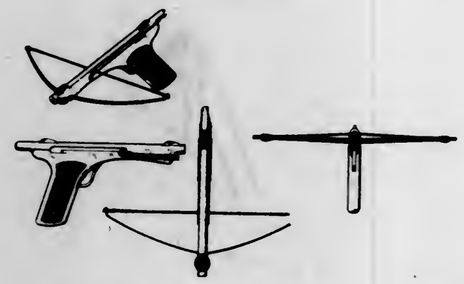


The ornamental design for a fertilizer spreader hood, as shown.

166,138
FLOOR COVERING
Philip C. Waite, Oshkosh, Wis., assignor to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin
Application March 21, 1950, Serial No. 8,661
Term of patent 14 years
(Cl. D92—4)

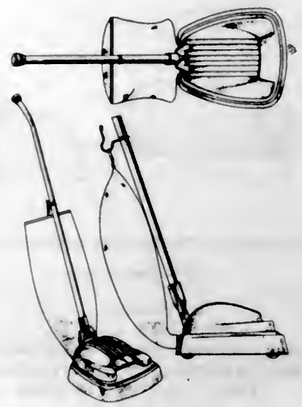
The ornamental design for a floor covering, as shown and described.

166,139
TOY CROSSBOW
Paul W. White, New Haven, Conn., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application January 20, 1951, Serial No. 13,891
Term of patent 7 years
(Cl. D34—15)



The ornamental design for a toy crossbow, substantially as shown.

166,140
TOY VACUUM CLEANER
Allen L. Atkins, Chicago, Ill.
Application November 10, 1948, Serial No. 149,556
Term of patent 14 years
(Cl. D34—15)



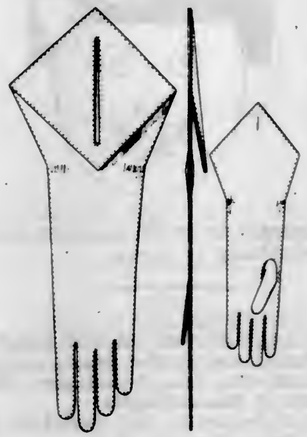
The ornamental design for a toy vacuum cleaner, as shown.

166,141
LADY'S COAT
David Bellsey, New York, N. Y.
Application November 16, 1951, Serial No. 17,435
Term of patent 3½ years
(Cl. D3—4)



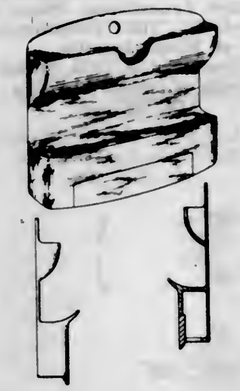
The ornamental design for a lady's coat, substantially as shown.

166,142
GLOVE
Marinette Blanc, Hewlett, N. Y., assignor to Dawnelle, Inc., New York, N. Y.
Application October 29, 1951, Serial No. 17,163
Term of patent 3½ years
(Cl. D3—11)



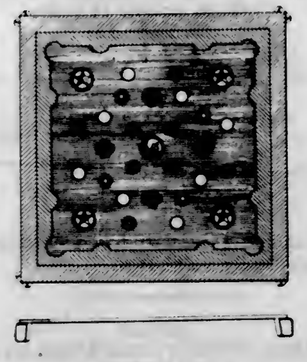
The ornamental design for a glove, substantially as shown.

166,143
TOOTHBRUSH, TOOTHPASTE, AND EYEGLASS POCKET BRACKET
Myron A. Block, Shorwood, Wis.
Application September 7, 1951, Serial No. 16,575
Term of patent 14 years
(Cl. D4—3)



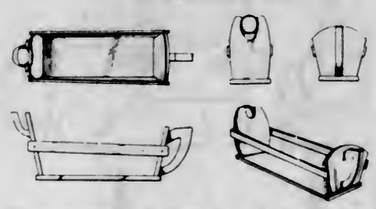
The ornamental design for a toothbrush, toothpaste, and eyeglass pocket bracket, as shown.

166,144
GAMEBOARD
Inez E. Cline, Battle Creek, Mich.
Application September 10, 1951, Serial No. 16,601
Term of patent 14 years
(Cl. D34—5)



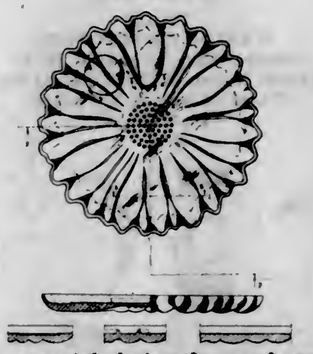
The ornamental design for a gameboard, as shown and described.

166,145
CRADLE FOR WINE BOTTLES
Earl F. Cook, Marblehead, Mass.
Application April 1, 1950, Serial No. 8,924
Term of patent 14 years
(Cl. D58—26)



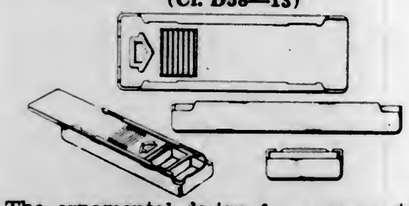
The ornamental design for a cradle for wine bottles, as shown.

166,146
GLASS PLATE OR SIMILAR ARTICLE
Albert J. Dreitzer, New York, N. Y., assignor to Pitman-Dreitzer & Co., Inc., New York, N. Y., a corporation of New York
Application March 14, 1951, Serial No. 14,491
Term of patent 14 years
(Cl. D36—2)



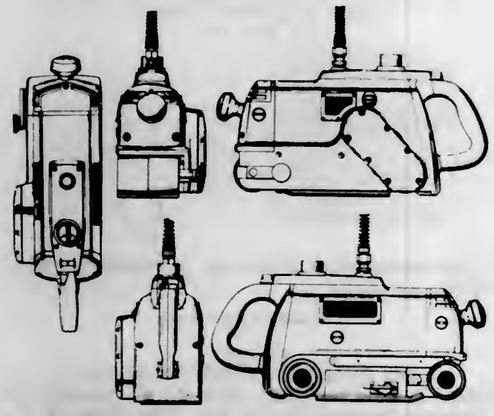
The ornamental design for a glass plate or similar article, substantially as shown.

166,147
COMPARTMENTED BOX
Norman R. Dunbar, Downey, Calif., assignor to Eldon Manufacturing Co., Los Angeles, Calif., a corporation of California
Application January 15, 1951, Serial No. 13,809
Term of patent 14 years
(Cl. D58—13)



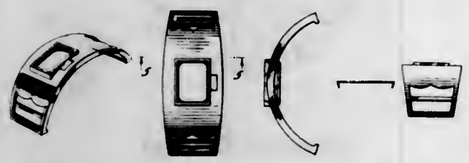
The ornamental design for a compartmented box, substantially as shown.

166,148
PORTABLE POWER OPERATED SANDING MACHINE
Arthur N. Emmons, Nedrow, N. Y., and Peter Muller-Munk, Pittsburgh, Pa., assignors to Porter-Cable Machine Company, Syracuse, N. Y., a corporation of New York
Application January 27, 1951, Serial No. 14,002
Term of patent 14 years
(Cl. D37—1)



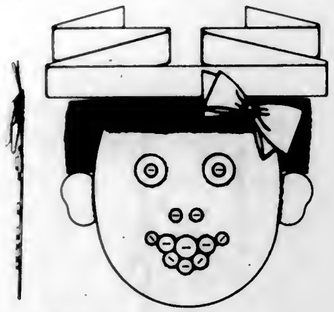
The ornamental design for a portable power operated sanding machine, as shown.

166,149
WATCH PROTECTOR
Samuel Fass, Brooklyn, N. Y.
Application March 30, 1950, Serial No. 8,862
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a watch protector, as shown.

166,150
APRON OR SIMILAR ARTICLE
Diana Forest, New York, N. Y.
Application August 15, 1951, Serial No. 16,289
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for an apron or similar article, substantially as shown.

166,151
SUNGLASS FRAME OR THE LIKE
Joseph C. Foster, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application December 15, 1951, Serial No. 17,742
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a sunglass frame or the like, substantially as shown and described.

166,152
SUNGLASS FRAME OR THE LIKE
Joseph C. Foster, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application December 15, 1951, Serial No. 17,743
Term of patent 14 years
(Cl. D57—1)



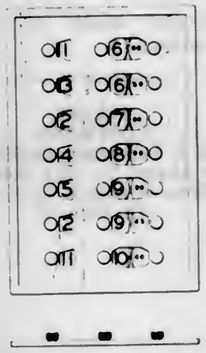
The ornamental design for a sunglass frame or the like, substantially as shown and described.

166,153
SUNGLASS FRAME OR THE LIKE
Joseph C. Foster, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application December 15, 1951, Serial No. 17,744
Term of patent 14 years
(Cl. D57—1)



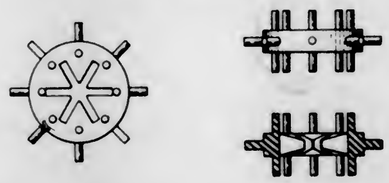
The ornamental design for a sunglass frame or the like, substantially as shown and described.

166,154
TELEVISION TIMETABLE
William L. Garrett, Jr., Los Angeles, Calif.
Application April 11, 1950, Serial No. 9,125
Term of patent 3½ years
(Cl. D56—1)



The ornamental design for a television timetable, substantially as shown and described.

166,155
CLOTHESLINE PEG
Geoffrey Maxwell Gibbs, Sawbridgeworth, England
Application April 23, 1951, Serial No. 14,929
Term of patent 7 years
(Cl. D49—1)



The ornamental design for a clothesline peg, as shown.

166,156
FIGURINE
Aliglivero Giovacchimi, Chicago, Ill.
Application September 7, 1951, Serial No. 16,566
Term of patent 3½ years
(Cl. D29—23)



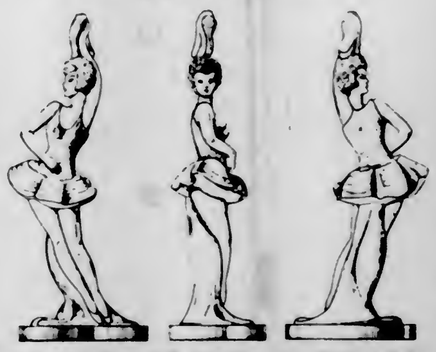
The ornamental design for a figurine, as shown.

166,157
FIGURINE
Aliglivero Giovacchimi, Chicago, Ill.
Application September 7, 1951, Serial No. 16,567
Term of patent 3½ years
(Cl. D29—23)



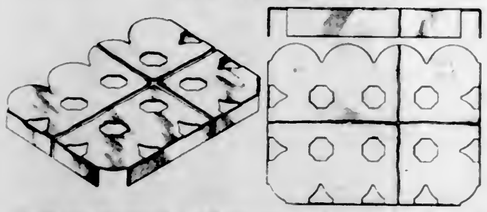
The ornamental design for a figurine, as shown.

166,158
FIGURINE
Aliglivero Giovacchimi, Chicago, Ill.
Application September 7, 1951, Serial No. 16,568
Term of patent 3½ years
(Cl. D29—23)



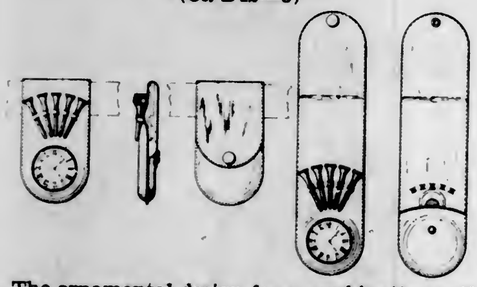
The ornamental design for a figurine, as shown.

166,159
STACKING MEMBER OR SIMILAR ARTICLE
Jerome Greben, San Diego, Calif.
Application September 25, 1951, Serial No. 16,734
Term of patent 14 years
(Cl. D58—12)



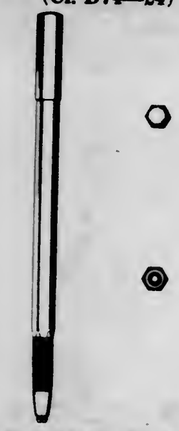
The ornamental design for a stacking member or similar article, substantially as shown.

166,160
COMBINATION GOLFER'S WATCH AND TEE HOLDER UNIT
Otto Grun, New York, N. Y.
Application January 17, 1950, Serial No. 7,292
Term of patent 7 years
(Cl. D42—8)



The ornamental design for a combination golfer's watch and tee holder unit, substantially as shown and described.

166,161
CLUTCH PENCIL OR SIMILAR ARTICLE
Benjamin W. Hanle, Elizabeth, N. J., assignor to Eagle Pencil Company, New York, N. Y., a corporation of Delaware
Application June 16, 1949, Serial No. 3,323
Term of patent 14 years
(Cl. D74—24)



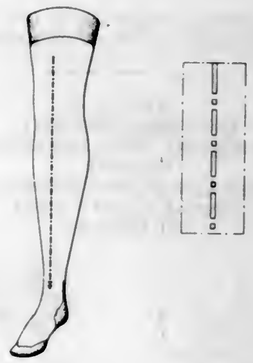
The ornamental design for a clutch pencil or similar article, substantially as shown.

166,162
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application April 18, 1950, Serial No. 9,306
Term of patent 14 years
(Cl. D47—7)



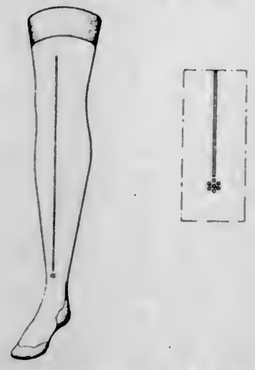
The ornamental design for a stocking, as shown and described.

166,163
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application August 21, 1951, Serial No. 16,393
Term of patent 14 years
(Cl. D47—7)



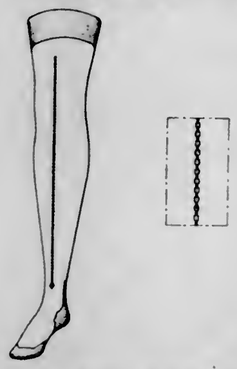
The ornamental design for a stocking, as shown and described.

166,164
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application August 21, 1951, Serial No. 16,394
Term of patent 14 years
(Cl. D47—7)



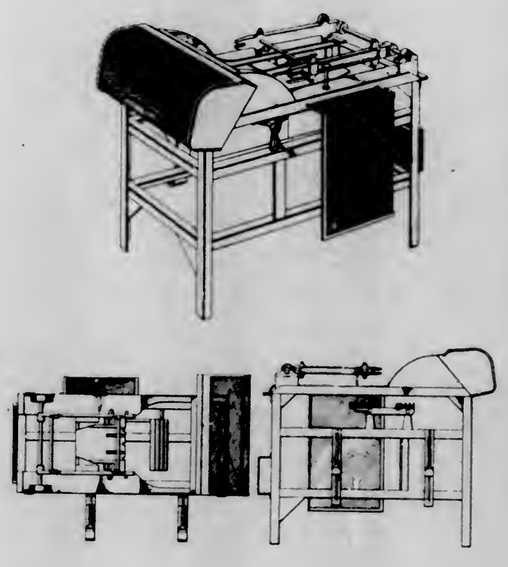
The ornamental design for a stocking, as shown and described.

166,165
STOCKING
Alfred E. Ischinger, Reading, Pa.
Application August 21, 1951, Serial No. 16,395
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown and described.

166,166
COMBINED FRAMEWORK AND PROTECTIVE GUARD FOR A PACKAGING MACHINE
Kenneth D. Knapp, Los Angeles, Calif.
Application June 19, 1950, Serial No. 10,629
Term of patent 3½ years
(Cl. D55—1)



The ornamental design for a combined framework and protective guard for a packaging machine, substantially as shown.

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Adirondack Mountain Products Co.: *See*—
Shea, James.

Air Engineering, Inc., San Francisco, Calif. Liquid air treating inhalant. Serial No. 587,067, Mar. 18. Class 18.

Air Reduction Company, Incorporated, New York, N. Y. Inhalation anesthetic. Serial Nos. 616,934–5, Mar. 18. Class 18.

Ajax Expander Company: *See*—
Ihsen, Arthur H.

Aktiebolaget Sveriges Forenade Konservfabriker, Goteborg, Sweden. Canned sardines. Serial No. 611,593, Mar. 18. Class 46.

Aktiengesellschaft Chocolat Tobler, also trading as Chocolat Tobler, Limited, and Societe Anonyme Chocolat Tobler, Berne, Switzerland. Chocolate bars. Serial No. 616,218, Mar. 18. Class 46.

Albers Milling Company, Los Angeles, Calif., and Portland, Oreg. Poultry feeds. Serial No. 597,483, Mar. 18. Class 46.

Allied Minerals, Inc., West Chelmsford, Mass. Poultry feeding materials. Serial No. 576,785, Mar. 18. Class 46.

Alprodco, Inc., Mineral Wells, Tex. Farm and ranch gates, stockyard gates, lawn, ornamental and industrial gates, etc. Serial No. 605,289, Mar. 18. Class 12.

American Bosch Corporation, Springfield, Mass. Service, maintenance, and repair of motor vehicles. Serial No. 596,063, Mar. 18. Class 103.

American Bosch Corporation, Springfield, Mass. Windshield wipers. Serial No. 619,057, Mar. 18. Class 19.

American Bottlers of Carbonated Beverages, Washington, D. C. Partially printed forms. Serial No. 612,235, Mar. 18. Class 37.

American Greeting Publishers, Inc., Cleveland, Ohio. Paper. Serial No. 572,474, Mar. 18. Class 37.

American Hard Rubber Company, Hempstead and New York, N. Y. Hard rubber combs. Serial No. 615,103, Mar. 18. Class 40.

American Machine and Metals, Inc., New York, N. Y., and Sellersville, Pa. Apparatus for remote indication of temperature or pressure. Serial No. 608,586, Mar. 18. Class 26.

American Rolling Mill Company, The: *See*—
Armco Steel Corporation.

American Steel Band Company, Pittsburgh, Pa. Protected steel sheets. Serial No. 593,703, Mar. 18. Class 14.

American Stores Company, Philadelphia, Pa. Facial tissue, household paper towels, and bathroom tissue. Serial No. 590,060, Mar. 18. Class 37.

American Water Works Association, Inc., New York, N. Y. Dissemination of information and publicity. Serial No. 588,849, Mar. 18. Class 100.

Andrew Brothers, The: *See*—
Andrew, Carlton H.

Andrew, Carlton H., doing business as The Andrew Brothers, Platteville, Wis. Corn seed hybrids and field seeds. Serial No. 537,125, Mar. 18. Class 1.

Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Dry colors and pigments. Serial No. 601,403, Mar. 18. Class 11.

Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Dry colors and pigments. Serial No. 601,405, Mar. 18. Class 11.

Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Dry colors and pigments. Serial No. 601,409, Mar. 18. Class 11.

Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Dry colors and pigments. Serial No. 601,416, Mar. 18. Class 11.

Appleby, A. D., doing business as A. D. Appleby Industries, Odessa, Tex. Rock bits and parts thereof. Serial No. 617,833, Mar. 18. Class 23.

Appleby, A. D., Industries: *See*—
Appleby, A. D.

Appliance Manufacturing Company, Alliance, Ohio. Air dryers (dehumidifiers). Serial No. 619,127, Mar. 18. Class 34.

Ardin, Lucien, Inc., New York, N. Y. Wines. Serial No. 614,121, Mar. 18. Class 47.

Aries, R. S., and Associates: *See*—
Aries, Robert S.

Aries, Robert S., doing business under the style of R. S. Aries and Associates, New York, N. Y. Consultation and advisory services. Serial No. 585,739, Mar. 18. Class 100.

Armco Steel Corporation, Middletown, Ohio, by change of name from The American Rolling Mill Company. Services rendered by way of consultation. Serial No. 527,560, Mar. 18. Class 100.

Armour and Company, Chicago, Ill. Glue. Serial No. 606,067, Mar. 18. Class 5.

Armstrong Rubber Company, The, West Haven, Conn. Pneumatic tire casings. Serial No. 592,065, Mar. 18. Class 35.

Art Cap Co. Inc., New York, N. Y. Military caps. Serial No. 609,389, Mar. 18. Class 39.

Atlantic Paper Company, Philadelphia, Pa. Starch coated book paper. Serial No. 599,074, Mar. 18. Class 37.

Aubrey & Company, Louisville, Ky. Livestock, poultry, rabbit feeds. Serial No. 553,804, Mar. 18. Class 46.

Automatic Washer Company, Newton, Iowa. Domestic laundry machines. Serial No. 611,499, Mar. 18. Class 24.

Automobile Dealers Associates, Inc., Chicago, Ill. Antifreeze solution. Serial No. 617,008, Mar. 18. Class 6.

Baker-Roos, Inc., Indianapolis, Ind. Leasing of concrete building forms. Serial No. 606,964, Mar. 18. Class 103.

Barr Packing Company, Sanger, Calif. Fresh grapes. Serial No. 588,267, Mar. 18. Class 46.

Barrett Equipment Company, St. Louis, Mo. Metal turning lathes. Serial No. 595,487, Mar. 18. Class 23.

Barrett Products Co., Philadelphia, Pa. Antiseptic styptic powder. Serial No. 575,961, Mar. 18. Class 18.

Barrie, Chester, Ltd., New York, N. Y. Men's and young men's suits, overcoats, tuxedos, etc.; women's and misses' suits and coats. Serial No. 612,783, Mar. 18. Class 39.

Barry, Donald, Productions, Inc., Los Angeles, Calif. Cotton print yard goods. Serial No. 617,855, Mar. 18. Class 42.

Beaumont Birch Company, Philadelphia, Pa. Traction wheels. Serial No. 616,540, Mar. 18. Class 23.

Becton, Dickinson, and Company, Rutherford, N. J. Syringes and needles. 538,859, Mar. 18. Class 44.

Behr-Manning Corporation, Troy, N. Y. Coated abrasives. Serial No. 605,840, Mar. 18. Class 4.

Bell Answering System, The, Washington, D. C. Telephone answering service and mail address service. Serial No. 613,627, Mar. 18. Class 101.

Bercktowne of Hollywood, Los Angeles, Calif. Men's neckties, sportshirts, jackets, and shorts. Serial No. 601,135, Mar. 18. Class 39.

Blue Anchor Co., Inc., assignee: *See*—
Caracciolo, Louis D.

Blum, Milton C., Inc., New York, N. Y. Cotton piece goods. Serial No. 619,917, Mar. 18. Class 42.

Book-of-the-Month Club, Inc., New York, N. Y. Fictional and nonfictional books. Serial No. 588,199, Mar. 18. Class 38.

Borrowed Timers, The, San Diego, Calif. Printed religious cards. Serial No. 616,544, Mar. 18. Class 38.

Bowen & Company: *See*—
Bowen, William S.

Bowen, William S., doing business under the name of Bowen & Company, Westfield, N. J. Ground beef extender. Serial No. 614,748, Mar. 18. Class 46.

Bower Roller Bearing Company, Detroit, Mich. Antifriction bearings. Serial No. 543,087, Mar. 18. Class 23.

Brateman, Samuel, Houston, Tex. Miniature Hollywood-style toy bed. Serial No. 590,972, Mar. 18. Class 22.

Brayten Pharmaceutical Company, Chattanooga, Tenn. Medicinal preparation. Serial No. 600,568, Mar. 18. Class 18.

Briarhurst Travel Service: *See*—
Jones, Luella R.

Bristol Aeroplane Company Limited, The, Bristol, England. Internal combustion engines and gas turbines. Serial No. 617,648, Mar. 18. Class 23.

Burlington Mills Corporation, Greensboro, N. C. Textile ribbons. Serial No. 606,135, Mar. 18. Class 42.

Buryan, Edmund F., Scarsdale, N. Y. Surgical bandages. Serial No. 615,686, Mar. 18. Class 44.

C-Thru Aluminum Awning Co., Los Angeles, Calif. Metal slat type awnings. Serial No. 605,895, Mar. 18. Class 12.

Candy-Lane, Inc., Los Angeles, Calif. Candy. Serial No. 590,351, Mar. 18. Class 46.

Capital City Products Company, The, Columbus, Ohio. Hardened vegetable oil. Serial No. 601,977, Mar. 18. Class 46.

Caracciolo, Louis D., assignor to Blue Anchor Co., Inc., Blue Anchor, N. J. Frozen oysters. Serial No. 590,545, Mar. 18. Class 46.

Caribbean Clothing Corporation, Mayaguez, Puerto Rico. Men's suits, sports and leisure jackets, slacks, etc.; women's walking shorts, slacks and skirts. Serial No. 606,267, Mar. 18. Class 39.

Cascade Saw & Tool: *See*—
Dowling, Clarence B.

Caute, Jean, Casablanca, Morocco. Canned fish. Serial No. 612,155, Mar. 18. Class 46.

Cayce, Reginald V., San Francisco, Calif. Concrete prefabricated building units or pieces. Serial No. 591,912, Mar. 18. Class 12.
Chase Products Co., Maywood, Ill. Ant and roach powder, red squill, liquid ant killer, etc. Serial No. 590,806, Mar. 18. Class 6.
Chemico Laboratories, Inc., Indianapolis, Ind. Tablet for treatment of heart disease. Serial No. 600,647, Mar. 18. Class 18.
Cherry Smash Company, Inc., Arlington, Va. Maltless soft drinks and syrups. Serial No. 608,408, Mar. 18. Class 45.
Chipman Knitting Mills, Easton, Pa. Hosiery. Serial No. 608,301, Mar. 18. Class 39.
Chocolat Tobler, Limited: *See*—
Aktiengesellschaft Chocolat Tobler.
Ciba Limited, Basel, Switzerland. Antiseptic. Serial No. 607,933, Mar. 18. Class 18.
Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparations. Serial No. 612,198, Mar. 18. Class 18.
Clark, D. L., Company, The, Pittsburgh, Pa. Candy bars. Serial No. 568,297, Mar. 18. Class 46.
Click, Robert E., doing business under the assumed name and style of Restaurant Specialty Company, Portland, Oreg. Powerful germicidal sanitizer, etc. Serial No. 602,728, Mar. 18. Class 6.
Clover Manufacturing Company, The, Norwalk, Conn. Abrasive compounds, coated abrasive materials, etc. Serial No. 609,435, Mar. 18. Class 4.
Commercial Controls Corporation, Rochester, N. Y. Perforated paper tapes and copy paper. Serial No. 594,952, Mar. 18. Class 37.
Compagnie Nationale Air France, Paris, France, and New York, N. Y. Air transportation of passengers and freight. Serial No. 605,724, Mar. 18. Class 105.
Confections, Incorporated, Chicago, Ill. Cheese wafers. Serial No. 618,083, Mar. 18. Class 46.
Conn Knitting Mills, Inc., Oswego, N. Y. Knitted outer shirts and undershirts. Serial No. 601,818, Mar. 18. Class 39.
Curtis 1000, Incorporated, St. Paul, Minn., and Hartford, Conn. Correspondence envelopes. Serial No. 615,632, Mar. 18. Class 37.
Dennis, Jos. K., Boston, Mass. Salt fish. Serial No. 606,458, Mar. 18. Class 46.
Digiovanna, Tigellia C., Brooklyn, N. Y. Ladies' bathing caps. Serial No. 615,974, Mar. 18. Class 39.
Disabled American Veterans, Cincinnati, Ohio, and Chicago, Ill. Key ring markers. Serial No. 558,874, Mar. 18. Class 50.
Dr. Pepper Company, Dallas, Tex. Non-alcoholic, maltless, beverages. Serial No. 614,496, Mar. 18. Class 45.
Dome Chemicals, Inc., New York, N. Y. Deodorant and douche. Serial No. 616,593, Mar. 18. Class 18.
Donchian, Paul S., Hartford, Conn. Dishes and trays. Serial No. 583,335, Mar. 18. Class 2.
Donley Brothers Company, The, Cleveland, Ohio. Metal inserts, metal clothes posts, floor traps, etc. Serial No. 568,593, Mar. 18. Class 13.
Doughty Research and Development Corporation, assignor to The Miracloy Corporation, New York, N. Y. Steel hardening compounds. Serial No. 594,528, Mar. 18. Class 6.
Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial No. 599,421, Mar. 18. Class 12.
Dowling, Clarence B., doing business under the name and style of Cascade Saw & Tool, Chehalis, Wash. Saws and knives. Serial No. 605,203, Mar. 18. Class 23.
Dunbar Furniture Manufacturing Company, Berne, Ind. Wood case pieces of furniture. Serial No. 571,519, Mar. 18. Class 32.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polyester film. Serial No. 616,417, Mar. 18. Class 1.
Eastern Seed Company: *See*—
Pedigreed Seed Co.
Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Photographic fixing solution. Serial No. 616,951, Mar. 18. Class 6.
Eberhart, Wilford M., doing business as Louisiana Aircraft, Baton Rouge, La. Frozen food stuffs. Serial No. 598,579, Mar. 18. Class 46.
Edmundson-Duhe Rice Mill Co., Inc., Rayne, La. Milled rice and dressings and sauces. Serial No. 612,533, Mar. 18. Class 46.
Edwards, Pauline L., Upper Darby, Pa. Men's and women's hats. Serial No. 601,350, Mar. 18. Class 39.
Ellis, Bernard J., Limited, South Woodford, London, England. Automobile polishes. Serial No. 566,575, Mar. 18. Class 4.
El Poche Cafe, San Gabriel, Calif. Steak marinade or seasoning sauce. Serial No. 605,472, Mar. 18. Class 46.
Emerick, Lucille, New York, N. Y. Toy set. Serial No. 620,095, Mar. 18. Class 22.
Englander Company, Inc., The, Chicago, Ill. Mattresses and box springs. Serial No. 617,581, Mar. 18. Class 32.
Esbeco Distilling Corporation, Stamford, Conn. Whiskey. Serial No. 587,469, Mar. 18. Class 49.
Essencefabriek Alex Groot: *See*—
Groot, Alex.
Etablissements A. Gringoire (Société Anonyme), Loiret, France. Pastry, bisbuits and specially gingerbread. Serial No. 612,008, Mar. 18. Class 46.
Fels & Company, Philadelphia, Pa. Liquid detergent and solid detergent. Serial No. 603,185, Mar. 18. Class 52.
Ferry-Morse Seed Co., Detroit, Mich. Seeds. Serial No. 602,680, Mar. 18. Class 1.
Filter-Kleen Mfg. Co.: *See*—
Lieberman, Samuel.
Finger Lakes Chemical Company, Inc., Ithaca and Etna, N. Y. Detergents. Serial No. 579,491, Mar. 18. Class 52.
Finnell System, Inc., Elkhart, Ind. Polishing and cleaning preparations. Serial No. 576,487, Mar. 18. Class 4.
Fisk, Inc., Mayfield Heights, Ohio. Razors and shaving equipment. Serial No. 591,775, Mar. 18. Class 23.
Flag Pet Food Corp., New York, N. Y. Canned cat food. Serial No. 528,564, Mar. 18. Class 46.
Florez, Incorporated, Detroit, Mich. Display boards. Serial No. 579,314, Mar. 18. Class 50.
Forst Packing Company, Inc., Kingston, N. Y. Hams, picnic hams, bacon, etc. Serial No. 531,905, Mar. 18. Class 46.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 620,032, Mar. 18. Class 42.
Fox, I. J., Inc., New York, N. Y. Articles of clothing. Serial No. 614,200, Mar. 18. Class 39.
Frosted Fruit Products, Los Angeles, Calif. Frozen seedless purees of fruits and berries, whole fruits and berries, etc. Serial No. 557,746, Mar. 18. Class 46.
Fulton Tool Company: *See*—
Rothchild, Edwin.
Gallery of Homes, Inc., Rochester, N. Y. General real-estate brokerage. Serial No. 602,316, Mar. 18. Class 102.
Gamble-Skogmo, Inc., Minneapolis, Minn. Hunting coats, hunting vests, etc. Serial No. 615,303, Mar. 18. Class 39.
Gantner & Mattern Company, San Francisco, Calif. Men's, women's, and children's swimsuits, and women's playsuits. Serial No. 513,043, Mar. 18. Class 39.
General Mills, Inc., Minneapolis, Minn., and Wilmington, Del. Wheat flour. Serial No. 509,935, Mar. 18. Class 46.
General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Livestock feed. Serial No. 617,539, Mar. 18. Class 46.
General Paper Co., Inc., Coatesville, Pa., assignor to West Disinfecting Company, New York, N. Y. Metal portable paper towel holders. Serial No. 600,721, Mar. 18. Class 2.
Gerber & Co., Inc., New York, N. Y. Pasteurized process cheese spread. Serial No. 615,062, Mar. 11. Class 46.
Gevaert Photo-Producten N. V., Mortsel, Belgium. Chemical preparations. Serial No. 613,872, Mar. 18. Class 6.
Glendale Federal Savings & Loan Association, Glendale, Calif. Service consisting of accepting savings and making loans. Serial No. 600,722, Mar. 18. Class 102.
Globe-Wernicke Co., The, Norwood, Cincinnati, Ohio. Desk trays. Serial No. 600,044, Mar. 18. Class 32.
Golden Grain Macaroni Co., San Francisco, Calif. Alimentary pastes. Serial No. 603,157, Mar. 18; Class 46.
Goode, Walker W., Humphrey, Nebr. Metal farm gates. Serial No. 598,250, Mar. 18. Class 13.
Goodman Manufacturing Company, Chicago, Ill. Endless chain and belt type discharge conveyors. Serial No. 607,016, Mar. 18. Class 23.
Grayson-Robinson Stores, Inc., New York, N. Y. Ladies' slips. Serial No. 605,738, Mar. 18. Class 39.
Griggs, Cooper & Company, St. Paul, Minn. Fruit preserves, jellies, jams, etc. Serial No. 609,176, Mar. 18. Class 46.
Groot, Alex, doing business under the firm name Essencefabriek Alex Groot, Rotterdam, Netherlands. Flavoring extracts, flavoring oils, flavoring syrups, etc. Serial No. 588,025, Mar. 18. Class 46.
Gross, A., & Sons, Philadelphia, Pa. Dill pickles. Serial No. 592,487, Mar. 18. Class 46.
Gulf Distributing Co., Weslaco, Tex. Fresh vegetables. Serial No. 615,549, Mar. 18. Class 46.
Gundlach, C. P., & Co., Inc., Cincinnati, Ohio. Low fat milk. Serial No. 614,391, Mar. 18. Class 46.
Halo-Star Corporation, Oak Park, Ill. Candy. Serial No. 613,004, Mar. 18. Class 46.
Harden Farms, Inc., Salinas, Calif. Fresh vegetables. Serial No. 613,639, Mar. 18. Class 46.
Hat Corporation of America, Norwalk, Conn. Men's hats, caps, neckties and overcoats, women's hats. Serial No. 597,828, Mar. 18. Class 39.
Her Majesty Dishwasher Co., Los Angeles, Calif. Non-electric dishwashing machines. Serial No. 587,084, Mar. 18. Class 23.
Hercules Powder Company, Wilmington, Del. Wet-strength, synthetic resin for paper. Serial No. 616,318, Mar. 18. Class 6.
Hobbs, Clarence A., Ottawa, Ontario, Canada. Treated natural fern. Serial No. 607,531, Mar. 18. Class 1.
Holt, John, & Company, Inc., New York, N. Y. Canned rock lobster Serial No. 617,198, Mar. 18. Class 46.
House of Vision—Belgard-Spero Inc., The, Chicago, Ill. Grinding lenses. Serial No. 602,532, Mar. 18. Class 106.
Houser, Clyde R., East Mauch Chunk, Pa. Ladies' hosiery. Serial No. 603,999, Mar. 18. Class 39.
Hubbard and Company, Pittsburgh, Pa. Bolts. Serial No. 564,624, Mar. 18. Class 13.

Huber, J. M., Corporation, Red Bank, N. J., and New York, N. Y. Carbon black. Serial No. 613,915, Mar. 18. Class 6.
Hubinger Company, The, Keokuk, Iowa. Corn syrup. Serial No. 606,218, Mar. 18. Class 46.
Hygienic Phone Service, Inc., New York, N. Y. Cleaning, polishing, sterilizing and immunizing from disease of telephone, dictaphones and related instruments. Serial No. 552,244, Mar. 18. Class 103.
Ida Mae Salad Co., Brentwood, Md. Potato salad, macaroni salad and cole slaw. Serial No. 615,643, Mar. 18. Class 46.
Idaho Egg Producers, Caldwell, Idaho. Eggs, slaughtered poultry, feeds. Serial No. 565,783, Mar. 18. Class 46.
Ihsen, Arthur H., doing business under the name of Ajax Expander Company, Fairview, Pa. Tube expanders. Serial No. 580,552, Mar. 18. Class 23.
Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Cutting heads. Serial No. 612,495, Mar. 18. Class 23.
Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Cutting head drill steels. Serial No. 612,496, Mar. 18. Class 23.
International Association of Lions Clubs, The, Chicago, Ill. Periodicals. Serial No. 602,031, Mar. 18. Class 38.
International Milling Company, Minneapolis, Minn. Wheat flour. Serial No. 617,113, Mar. 18. Class 46.
Interstate Bakeries Corporation, Kansas City, Mo. Bread. Serial No. 565,552, Mar. 18. Class 46.
Isgo Wall Paper Corporation, Chicago, Ill. Wall paper. Serial No. 615,068, Mar. 18. Class 37.
Isrin, David S., doing business as Isrin Oliver Company, New York, N. Y. Vinegar. Serial No. 607,083, Mar. 18. Class 46.
Isrin Oliver Company: *See*—
Isrin, David S.
Ivers-Lee Company, Newark, N. J. Envelope-like sealed containers. Serial No. 530,206, Mar. 18. Class 2.
J & L Steel Barrel Company, New York, N. Y. Portable wash tubs. Serial No. 616,320, Mar. 18. Class 24.
Jamestown Finishing Products, Inc., Jamestown, N. Y. Flexible sheet material simulating leather. Serial No. 595,543, Mar. 18. Class 50.
Jewell Polish Company: *See*—
Steele, W. J.
Johnson, S. C., & Son, Inc., Racine, Wis. Liquid polish. Serial No. 580,244, Mar. 18. Class 4.
Jones, Luella R., doing business as Briarhurst Travel Service, Dallas, Tex. Travel service. Serial No. 598,304, Mar. 18. Class 105.
K and H Oil Company, Minneapolis, Minn. Gasoline. Serial No. 613,573, Mar. 18. Class 15.
Kendall Company, The, Boston, Mass. Keratin exfoliative. Serial No. 606,613, Mar. 18. Class 18.
Key Club International: *See*—
Kiwanis International, assignee:
Keystone Wire Cloth Company, Hanover, Pa. Metal insect screening. Serial Nos. 619,024–5, Mar. 18. Class 13.
Kiwanis International, Chicago, Ill., assignee of Key Club International. Jewelry. Serial No. 566,943, Mar. 18. Class 28.
Klem Chemicals Inc., Dearborn, Mich. Cleaners. Serial No. 580,603, Mar. 18. Class 52.
Knoll Associates, Inc., New York, N. Y. Curtain and upholstery fabrics. Serial No. 595,077, Mar. 18. Class 42.
Kohler, Harold J., doing business as Monarch Laboratories and Monarch Labs., Chicago, Ill. Unfilled metal fixtures. Serial No. 560,416, Mar. 18. Class 13.
Koree, Jean U., assignor to Pharmacus Corporation, New York, N. Y. Laxative preparation. Serial No. 590,896, Mar. 18. Class 18.
Korn Popper, The: *See*—
Miller, Charles J.
Kress, S. H., and Company, New York, N. Y. Composition books, notebooks and looseleaf binders. Serial No. 599,440, Mar. 18. Class 37.
Kuppenheimer, B., and Co. Inc., Chicago, Ill. Men's and boys' ready-to-wear coats, vests, trousers and overcoats. Serial No. 615,229, Mar. 18. Class 39.
Lamar, Maurice H., Stephenville, Tex. Partially printed reference charts. Serial No. 595,726, Mar. 18. Class 37.
Larson Bait Company: *See*—
Larson, Karl R.
Larson, Karl R., doing business as Larson Bait Company, Aitken, Minn. Artificial fish lures. Serial No. 572,907, Mar. 18. Class 22.
Lazzar, Fanny, Evanston, Ill. Spaghetti sauce and chutney dressing. Serial No. 589,028, Mar. 18. Class 18.
Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Gasoline hose, distillate hose, tank wagon hose, etc. Serial No. 592,041, Mar. 18. Class 35.
Leeds Travelwear Corporation, New York, N. Y. Garment hanger-bags. Serial No. 616,177, Mar. 18. Class 3.
Lehn & Fink Products Corporation, Bloomfield, N. J. Soap and shampoo. Serial No. 607,257, Mar. 18. Class 52.
Leo Corporation, assignee: *See*—
Motor Chemical Corporation.
Lewis, Warner, Company, Tulsa, Okla. Hydrocarbon oil filters. Serial No. 518,331, Mar. 18. Class 31.
Lexington Manufacturing Company, Lexington, N. C. Men's outer shirts. Serial No. 614,701, Mar. 18. Class 39.
Libbey-Owens-Ford Glass Company, Toledo, Ohio. Colored opaque glass tiles; multiple glass sheet glazing units, etc. Serial No. 602,038, Mar. 18. Class 12.
Lieberman, Samuel, doing business as Filter-Kleen Mfg. Co., Everett, Mass. Knife sharpener. Serial No. 589,791, Mar. 18. Class 23.
Link-Belt Speeder Corporation, Cedar Rapids, Iowa. Variable pressure hydraulic systems. Serial No. 599,880, Mar. 18. Class 23.
Lional Plastics Corporation, New York, N. Y. Puzzle key chains. Serial No. 592,642, Mar. 18. Class 13.
Liston Processed Foods Inc., Toledo, Ohio. Cellophane or like wrapped precooked dressed poultry. Serial No. 600,221, Mar. 18. Class 46.
Lockheed Aircraft Corporation, Burbank, Calif. Expanded cellular resin plastic materials. Serial No. 617,760, Mar. 18. Class 21.
Loft Candy Corporation, New York and Long Island City, N. Y. Candy. Serial No. 517,069, Mar. 18. Class 46.
Louisiana Aircraft: *See*—
Eberhart, Wilford M.
Lowe, Joe, Corporation, New York, N. Y. Frozen confections. Serial No. 618,300, Mar. 18. Class 46.
Lubin-Weeker Co., Inc., New York, N. Y. Men's and boys' pajamas. Serial No. 614,538, Mar. 18. Class 39.
MacArthur, Joseph A., doing business under the name and style of MacArthur Petroleum & Solvent Co., South Kearny, N. J. Industrial solvents. Serial No. 599,955, Mar. 18. Class 52.
MacArthur Petroleum & Solvent Co.: *See*—
MacArthur, Joseph A.
Mackie, H. A., and J. H. Warner, Jr., Covington, La. Oil in the nature of an antiseptic and liniment. Serial No. 596,503, Mar. 18. Class 18.
Marion Electrical Instrument Company, Manchester, N. H. Electrical measuring instruments. Serial No. 600,296, Mar. 18. Class 26.
Marshall and Williams Corporation, Providence, R. I. Textile machinery. Serial No. 604,207, Mar. 18. Class 23.
Maryland Baking Company, Inc., Baltimore, Md. Edible pastry cups. Serial No. 578,607, Mar. 18. Class 46.
Mathieson Chemical Corporation, Baltimore, Md. Fertilizer. Serial No. 618,503, Mar. 18. Class 10.
Mavest Inc., New York, N. Y. Sport jackets, suits and topcoats for men, women and children. Serial No. 597,534, Mar. 18. Class 39.
May Hosiery Mills, Nashville, Tenn. Men's, women's and children's footwear. Serial No. 597,890, Mar. 18. Class 39.
McPherson & Richardson, Oroville, Calif. Olive oil. Serial No. 571,817, Mar. 18. Class 46.
McPhillips Packing Corporation, Bayou La Batre, Ala. Canned crab meat, canned shrimp, canned oysters, etc. Serial No. 533,229, Mar. 18. Class 46.
Mead Johnson & Company, Evansville, Ind. Pharmaceutical dietary preparation. Serial No. 590,171, Mar. 18. Class 18.
Medicone Company, New York, N. Y. Preparation for anaemia and other vitamin deficiencies. Serial No. 613,303, Mar. 18. Class 18.
Mesco Products: *See*—
Smith, Marsh E.
Meyercord Co., The, Chicago, Ill. Decalcomanias. Serial No. 617,154, Mar. 18. Class 38.
Meyers, Louis, & Son, Inc., New York, N. Y. Fabric and leather gloves. Serial No. 617,547, Mar. 18. Class 39.
Michigan Chemical Corporation, St. Louis, Mich. Insecticide. Serial Nos. 616,916–17, Mar. 18. Class 6.
Midwest Biscuit Company, Inc., Burlington, Iowa. Popped corn, ice cream cones, potato chips, etc. Serial No. 530,229, Mar. 18. Class 46.
Miller and Weintraub: *See*—
Weintraub, Louis.
Miller, E. B., Associates, Inc., New York, N. Y. Miniature three-dimensional soldiers, figures, models, etc. Serial No. 619,976, Mar. 18. Class 22.
Miller, Charles J., doing business under the firm name of The Korn Popper, Lincoln, Nebr. Salted popped popcorn and unpopped popcorn. Serial No. 586,296, Mar. 18. Class 46.
Miracloy Corporation, The, assignee: *See*—
Doughty Research and Development Corporation.
Mission Valley Canning Co., Inc., San Jose, Calif. Canned green beans. Serial No. 604,589, Mar. 18. Class 46.
Missoula Brewing Company, Missoula, Mont., by change of name from Sicks' Missoula Brewing Co. Beer. Serial No. 536,167, Mar. 18. Class 48.
Mobilhome Corporation of America, Bakersfield, Calif. Technical advice and information. Serial No. 586,249, Mar. 18. Class 100.
Mohawk Motor Lines, Inc., Nashville, Tenn. Transporting packing-houses products. Serial No. 583,160, Mar. 18. Class 105.
Monarch Laboratories: *See*—
Kohler, Harold J.
Monarch Labs: *See*—
Kohler, Harold J.

Moore, William E., Oakland, Calif. Shipping carton or box containing a special refrigerant. Serial No. 540,196, Mar. 18. Class 31.
Motor Chemical Corporation, assignor to Leo Corporation, Chicago, Ill. Combustion catalysts, and gasoline and fuel oils containin combustion catalysts. Serial No. 613,183, Mar. 18. Class 15.
Mueller-Welt Contact Lenses, Inc., Chicago, Ill. Contact lenses. Serial No. 610,755, Mar. 18. Class 26.
Murray Hill Restaurant, Inc., New York, N. Y. Tablecloths and napkins. Serial No. 611,189, Mar. 18. Class 42.
Narragansett Coated Paper Corporation, Pawtucket, R. I. Coated paper and embossed paper. Serial No. 606,718, Mar. 18. Class 37.
National Lead Company, Sayreville, N. J., and New York, N. Y. Compositions for treatment of oil-well drilling fluids. Serial No. 616,327, Mar. 18. Class 6.
National Multiweaving Company, Washington, D. C. Fabric repair services. Serial No. 616,237, Mar. 18. Class 103.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. Serial No. 605,806, Mar. 18. Class 38.
Nelson Specialty Corporation, San Leandro, Calif. Electrical welding apparatus. Serial No. 593,184, Mar. 18. Class 21.
Neurolene Corporation, New York, N. Y. Anesthetic. Serial No. 606,626, Mar. 18. Class 18.
New Day Products Company: *See*—
Parks, Tom W.
Nobema Products Corporation, New York, N. Y. Tracing paper and cloth, and drawing paper. Serial No. 607,183, Mar. 18. Class 37.
Norden Laboratories, Lincoln, Nebr. Biological product. Serial No. 613,342, Mar. 18. Class 18.
Oakford Company, The, Peoria, Ill. Canned soup, canned fruit juice, canned vegetables, etc. Serial No. 594,142, Mar. 18. Class 46.
Oakley, Annie, Enterprises, Los Angeles, Calif. Prepared cake mix, cookies, candy bars, and oatmeal. Serial No. 613,041, Mar. 18. Class 46.
O'Brien, Elizabeth M., Buffalo, N. Y., assignee of E. M. O'Brien, as executrix of D. P. O'Brien, deceased. Cigars. Serial No. 485,692, Mar. 18. Class 17.
O'Brien, Daniel P.: *See*—
O'Brien, Elizabeth M.
Okonite Company, The, Passaic, N. J. Electrical insulating friction tapes and electrical insulating tapes. Serial No. 591,100, Mar. 18. Class 21.
Olive Heights Citrus Association, Olive, Calif. Fresh citrus fruits. Serial No. 545,029, Mar. 18. Class 46.
Oregon Worsted Company, Portland, Oreg. Woolen fabrics. Serial No. 607,040, Mar. 18. Class 42.
Ostermoor & Company, Inc., Bridgeport, Conn. Mattresses. Serial No. 617,673, Mar. 18. Class 32.
Ostrow, Barnet, doing business as Ronal Chemicals, Brooklyn, N. Y. Chemical compositions. Serial No. 616,384, Mar. 18. Class 6.
Oxford Filing Supply Co., Inc., Garden City, N. Y. Blank and partially printed gummed labels. Serial No. 589,468, Mar. 18. Class 37.
Ozmun and Company, Oklahoma City, Okla. Canned fruits and canned vegetables. Serial No. 619,583, Mar. 18. Class 46.
Pabco Products Inc., San Francisco, Calif. Magnesia heat insulating material. Serial No. 611,580, Mar. 18. Class 12.
Packaged Products Corporation, New York, N. Y. Frangible targets. Serial No. 603,248, Mar. 18. Class 22.
Packard Motor Car Company, Detroit, Mich. Automobile brakes. Serial No. 618,365, Mar. 18. Class 19.
Pacific Wines, Los Angeles, Calif. Wines. Serial No. 617,624, Mar. 18. Class 47.
Paramount Paper Products Co., Omaha, Nebr. Printed labels. Serial No. 597,224, Mar. 18. Class 38.
Parks, Tom W., doing business under the name of New Day Products Company, Anderson, S. C. Liquid soap. Serial No. 595,735, Mar. 18. Class 52.
Pastene Wine & Spirits Co., Inc., Boston, Mass. Wines. Serial No. 615,080, Mar. 18. Class 47.
Patou, Jean, Inc., New York, N. Y. Purse-sized bottles which contain various perfumes. Serial No. 607,346, Mar. 18. Class 51.
Pedigreed Seed Co., also doing business as Eastern Seed Company, New York, N. Y. Grass seed. Serial No. 607,348, Mar. 18. Class 1.
Pedigreed Seed Co., also doing business as Eastern Seed Company, New York, N. Y. Grass seed. Serial No. 607,351, Mar. 18. Class 1.
Peerless Finishing Corp., Paterson, N. J. Dyeing of all types of textiles. Serial No. 608,433, Mar. 18. Class 106.
Perfect Circle Corporation, Hagerstown, Ind. Instructing mechanics and repair men. Serial No. 537,819, Mar. 18. Class 107.
Perfection Company, Ltd., The, Waco, Tex. Concentrates. Serial No. 615,462, Mar. 18. Class 45.
Pfizer, Chas., & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc. Antibiotic preparation. Serial No. 606,566, Mar. 18. Class 18.
Pharmacus Corporation, assignee: *See*—
Koree, Jean U.
Phoenix Products Company, Milwaukee, Wis. Articles made of paper or paper board. Serial No. 586,187, Mar. 18. Class 37.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparations. Serial No. 602,062, Mar. 18. Class 18.
Pictsweet Foods, Inc., Mount Vernon, Wash. Frozen fresh fruits, berries, vegetables, etc. Serial No. 604,219, Mar. 18. Class 46.
Pikle-Rite Company, Inc., Chicago, Ill., and Pulaski, Wis. Bottled garlic flavored dill pickles. Serial No. 616,241, Mar. 18. Class 46.
Pilana, Factory for Saws and Woodworking Tools, National Corporation: *See*—
Pilana, Továrna na Pily a Nástroje Dřevoobrábecí, Národní Podnik.
Pilana, Továrna na Pily a Nástroje Dřevoobrábecí, Národní Podnik, also named Pilana, Factory for Saws and Woodworking Tools, National Corporation, Hulin, Czechoslovakia. Hand saws; sawing machines; sawmills; etc. Serial Nos. 606,047–8, published Mar. 18. Class 23.
Pinkham, Lydia E., Medicine Company, Lynn, Mass. Vaginal douche powder. Serial No. 595,978, Mar. 18. Class 18.
Pioneer Hi-Bred Corn Company, Des Moines, Iowa. Poultry medicines. Serial No. 590,520, Mar. 18. Class 18.
Pneumatic Scale Corporation, Limited, Quincy, Mass. Weighing machines. Serial No. 605,050, Mar. 18. Class 26.
Price Battery Corporation, Hamburg, Pa. Storage batteries. Serial No. 617,677, Mar. 18. Class 21.
Profilm Company, Inc., New York, N. Y. Stencil sheets. Serial No. 595,980, Mar. 18. Class 37.
Publisher's Development Corporation, Chicago, Ill. Periodicals. Serial No. 614,785, Mar. 18. Class 38.
Publix Shirt Corporation, New York, N. Y. Negligee shirts and sport shirts. Serial No. 607,867, Mar. 18. Class 39.
Publix Shirt Corporation, New York, N. Y. Negligee, dress, and sport shirts. Serial No. 608,219, Mar. 18. Class 39.
Pulitzer Publishing Company, The, St. Louis, Mo. Section of a newspaper. Serial No. 616,448, Mar. 18. Class 38.
Pure Oil Company, The, Chicago, Ill. Battery cables, and battery chargers. Serial No. 610,023, Mar. 18. Class 21.
Purity Cheese Company, Mayville, Wis. Cheese. Serial No. 581,211, Mar. 18. Class 46.
Pyle-National Company, The, Chicago, Ill. Steam turbines and parts thereof. Serial No. 612,558, Mar. 18. Class 23.
Radiator Specialty Company, Charlotte, N. C. Water pump lubricant and rust inhibitor, penetrating oil, etc. Serial No. 611,977, Mar. 18. Class 15.
Rawlings Manufacturing Company, St. Louis, Mo. Playballs. Serial No. 620,622, Mar. 18. Class 22.
Reed, Donald L., and Company, Denver, Colo. Canned unsweetened pineapple juice, heavy syrup crushed pineapple, extra heavy syrup pineapple tidbits, etc. Serial No. 599,452, Mar. 18. Class 46.
Republican Rubber Division: *See*—
Lee Rubber & Tire Corporation.
Researchers Universal, Inc., Sonoma, Calif. Fishing rods. Serial No. 611,533, Mar. 18. Class 22.
Restaurant Specialty Company: *See*—
Click, Robert E.
Restonic Corporation, Chicago, Ill. Mattresses and box springs. Serial No. 617,211, Mar. 18. Class 32.
Rex Redwood Shop, Eureka, Calif. Wooden products. Serial No. 600,850, Mar. 18. Class 2.
Rice Growers Association of California, Sacramento, Calif. Rice. Serial No. 597,097, Mar. 18. Class 46.
Robbins, Anatole, Inc., Los Angeles, Calif. After shave lotion. Serial No. 524,722, Mar. 18. Class 51.
Roberts, Windsor, Soap Co. Ltd., Windsor, England. Toilet soap. Serial No. 604,548, Mar. 18. Class 52.
Robins, A. H., Co., Inc., Richmond, Va. Antacid preparation. Serial No. 616,679, Mar. 18. Class 18.
Rockmont Envelope Company, Denver, Colo. Mailing envelopes. Serial No. 611,584, Mar. 18. Class 37.
Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Tomato soup, barley and mushroom soup, lima bean soup, etc. Serial No. 596,196, Mar. 18. Class 46.
Rolland Laboratories, Inc., Kansas City, Mo. Photographing infants. Serial No. 533,781, Mar. 18. Class 100.
Ronal Chemicals: *See*—
Ostrow, Barnet.
Rose-Derry Company, Newton, Mass. High chair pads and mattresses. Serial No. 617,212, Mar. 18. Class 32.
Rothchild, Edwin, doing business under the name and style of Fulton Tool Company, Brooklyn, N. Y. Steel hand files and rasps. Serial No. 609,666, Mar. 18. Class 23.
Royal Robes, Inc., New York, N. Y. Robes. Serial No. 600,353, Mar. 18. Class 39.
Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Prepared baking mix. Serial No. 598,602, Mar. 18. Class 46.
Sagner's, A., Son, Baltimore, Md. Men's, women's and misses' coats, suits, and bathrobes, etc. Serial No. 615,853, Mar. 18. Class 39.
Sagner's, A., Son, Baltimore, Md. Men's and women's coats and suits, men's trousers, dress and work shirts, etc. Serial Nos. 615,854–5, Mar. 18. Class 39.
Salerno-Megowen Biscuit Company, Chicago, Ill. Cookies. Serial No. 573,897, Mar. 18. Class 46.
Saul Bros., Atlanta, Ga. Articles of rainwear. Serial No. 598,109, Mar. 18. Class 39.

Schering Corporation, Bloomfield, N. J. Radioactive medicinal preparations. Serial No. 614,012, Mar. 18. Class 18.
Schering Corporation, Bloomfield, N. J. Hormone preparation. Serial No. 616,872, Mar. 18. Class 18.
Schlampp, P., & Son, Minneapolis, Minn. Dusting, demothing, cold storage of furs and fur garments. Serial No. 557,966, Mar. 18. Class 103.
Schundler, F. E., & Co. Inc., Joliet, Ill. High temperature, molded block and pipe thermal insulation. Serial No. 590,523, Mar. 18. Class 12.
Schwahn, A. F., & Sons Co., Eau Claire, Wis. Pickled fish. Serial No. 605,768, Mar. 18. Class 46.
Sears, Roebuck and Co., Chicago, Ill. Tobacco pouches. Serial No. 581,363, Mar. 18. Class 8.
Selvilla Olive Packing Co.: *See*—
Selvilla Olive Packing Co., Inc.
Selvilla Olive Packing Co., Inc., also doing business as Selvilla Olive Packing Co., Tampa, Fla. Bottled olives, olive oil and cherries. Serial No. 549,671, Mar. 18. Class 46.
Service Supply Corporation, Philadelphia, Pa. Tractor shovel. Serial No. 603,897, Mar. 18. Class 23.
Servo Corporation of America, New Hyde Park, N. Y. Engineering and consulting services. Serial No. 570,322, Mar. 18. Class 100.
Shea, James, doing business as Adirondack Mountain Products Co., Lake Placid, N. Y. Pancake flour, maple sirup, honey, canned blueberries, etc. Serial No. 610,926, Mar. 18. Class 46.
Shotwell Mfg. Co., The, Chicago, Ill. Chocolate covered marshmallow candy. Serial Nos. 575,161–2, Mar. 18. Class 46.
Shreve & Adams, Inc., New York, N. Y. Ladies' hosiery; misses' hosiery; girls' hosiery and boys' hosiery. Serial No. 618,056, Mar. 18. Class 39.
Sicks' Missoula Brewing Co.: *See*—
Missoula Brewing Company.
Sinykin, J. L., Minneapolis, Minn. Perfume, toilet water, talcum powder, etc. Serial No. 597,469, Mar. 18. Class 51.
Smith, Kline & French Laboratories, Philadelphia, Pa. Hormone preparation. Serial No. 607,768, Mar. 18. Class 18.
Smith, Marsh E., doing business as Mesco Products, Cleveland, Ohio. Automotive accessories. Serial No. 595,167, Mar. 18. Class 23.
Smith Victory Corporation, Buffalo, N. Y. Bobbie pins and hair pins. Serial No. 607,454, Mar. 18. Class 40.
Societe Anonyme Champagne Perrier-Jouet, Epernay, Marne, France. Champagne wines. Serial No. 606,957, Mar. 18. Class 47.
Societe Anonyme Chocolat Tobler: *See*—
Aktiengesellschaft Chocolat Tobler.
Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris, France. Perfumes, toilet waters and colognes. Serial No. 599,271, Mar. 18. Class 51.
Sonneborn, L., Sons, Inc., New York, N. Y. Wetting agent. Serial No. 607,052, Mar. 18. Class 6.
Sousa, John B., doing business as Travel Center, Los Angeles, Calif. Travel services. Serial No. 606,338, Mar. 18. Class 105.
South Shore Packing Corporation, The, Vermillion, Ohio. Olives and jellies. Serial No. 618,516, Mar. 18. Class 46.
Southwestern Candy Company, Inc., Jackson, Tenn. Serial No. 615,799, Mar. 18. Class 46.
Spiegel, Inc., Chicago, Ill. Household furniture. Serial No. 608,258, Mar. 18. Class 32.
Sta-Wite Corporation, Medford, Mass. Spaghetti gravy with meat. Serial No. 595,232, Mar. 18. Class 46.
Steel Scaffolding Company, Inc., The, Brooklyn, N. Y. Sectional tubular steel scaffolds. Serial No. 614,468, Mar. 18. Class 50.
Steele, W. J., doing business as Jewell Polish Company, Los Angeles, Calif. Auto polish, furniture polish, polishes for glass, chromium and metal, etc. Serial No. 584,512, Mar. 18. Class 4.
Sterling Industries, Inc., Dallas, Tex. Anti-corrosive or corrosion inhibitor. Serial No. 607,779, Mar. 18. Class 6.
Stern, Merritt Co. Inc., New York, N. Y. Necktles. Serial No. 612,765, Mar. 18. Class 39.
Stern, Merritt Co. Inc., New York, N. Y. Necktiez. Serial Nos. 612,767–70, Mar. 18. Class 39.
Stettner, Anton, Corpus Christi, Tex. Artificial fish lures. Serial No. 594,292, Mar. 18. Class 22.
Stevens, J. P., & Co. Inc., New York, N. Y. Cotton flannels. Serial No. 613,090, Mar. 18. Class 42.
Stewart-Warner Corporation, Chicago, Ill. Lubricant receiving fittings. Serial No. 565,147, Mar. 18. Class 13.
Stix, Baer & Fuller Company, St. Louis, Mo. Women's and girls' dresses, suits, coats, etc. Serial No. 573,385, Mar. 18. Class 39.
Stokes Molded Products, Inc., Trenton, N. J. Floats for water closet tanks, foot baths, nozzles for watering devices. Serial No. 591,642, Mar. 18. Class 13.
Sunny Sally Vegetables Growers, Los Angeles, Calif. Packaged fresh vegetables. Serial No. 569,905, Mar. 18. Class 46.
Superior Coach Corporation, Lima, Ohio, and Kosciusko, Miss. School coaches and motor coach bodies. Serial No. 617,892, Mar. 18. Class 19.
Swindle, D. W., doing business as D. W. Swindle and Sons Company, Nashville, Tenn. Household brooms. Serial No. 607,459, Mar. 18. Class 29.
Swindle, D. W., and Sons Company: *See*—
Swindle, D. W.
Tecumseh Coal Corporation, Chicago, Ill. Coal. Serial No. 616,255, Mar. 18. Class 1.
Thivierge, Oscar N., Yonkers, N. Y., and East Douglass, Mass. Liquid medicinal preparation. Serial No. 576,600, Mar. 18. Class 18.
Tnemec Company, Inc., North Kansas City, Mo. Treatment of steel tanks. Serial No. 527,549, Mar. 18. Class 103.
Travel Center: *See*—
Sousa, John B.
Tri-Boro Manufacturing Co., Corona, N. Y. Portable bars. Serial No. 582,328, Mar. 18. Class 32.
Tri-Valley Packing Association, San Francisco, Calif. Canned fruits, canned fruit juices, and canned vegetables. Serial No. 603,170, Mar. 18. Class 46.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
Union Trading Company Ltd., Basel, Switzerland. Cereal flour. Serial No. 586,375, Mar. 18. Class 46.
Union Trading Company Ltd., Basel, Switzerland. Cereal flour. Serial No. 586,382, Mar. 18. Class 46.
United Aircraft Products, Inc., Dayton, Ohio. Metal pans and like vessels. Serial No. 587,771, Mar. 18. Class 13.
United Laboratories, Ltd., Pasadena, Calif. Preparations of adrenocortico-tropic-hormone. Serial No. 608,642, Mar. 18. Class 18.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 610,930, Mar. 18. Class 18.
Valley-Maid Packing Co. Inc., Phoenixville, Pa. Cheese and cracker sandwiches. Serial No. 613,538, Mar. 18. Class 46.
Vesuvio Food Products, Inc., New York, N. Y. Salami. Serial No. 617,270, Mar. 18. Class 46.
Vogel-Peterson Co., Chicago, Ill. Checkroom or wardrobe equipment. Serial No. 613,387, Mar. 18. Class 32.
Warner, J. Harry, Jr.: *See*—
Mackie, H. A., and J. H. Warner, Jr.
Warren Knitting Mills, Inc., New York, N. Y. Hosiery. Serial No. 614,415, Mar. 18. Class 39.
Wee Pants, Inc., New York, N. Y. Baby panties, baby bloomers, creepers. Serial No. 609,428, Mar. 18. Class 39.
Weintraub, Louis, doing business under the name of Miller and Weintraub, New York, N. Y. Equipment and fixtures for stores. Serial No. 598,939, Mar. 18. Class 32.
Well Equipment Mfg. Corp., Houston, Tex. Pipe unions. Serial No. 568,225, Mar. 18. Class 18.
West Disinfecting Company, assignee: *See*—
General Paper Co., Inc.
Western Air Lines, Inc., Los Angeles, Calif. Air transportation of passengers, freight, and mail. Serial No. 525,469, Mar. 18. Class 105.
Western Condensing Company, San Francisco, Calif. Poultry and live stock feed additive. Serial No. 581,783, Mar. 18. Class 46.
Western Popcorn Company, Atlantic, Iowa. Popcorn. Serial No. 591,705, Mar. 18. Class 46.
Western Tablet & Stationery Corporation, Dayton, Ohio. Loose writing paper. Serial No. 526,027, Mar. 18. Class 37.
Weta'ene Laboratories, Inc., Columbus, Ohio. Detergent compositions. Serial No. 615,593, Mar. 18. Class 52.
Weyl-Zuckerman & Co., Stockton, Calif. Fresh potatoes. Serial No. 545,204, Mar. 18. Class 46.
Whitewater Raincoat Company, Whitewater, Wis. Men's and women's raincoats, and sportswear. Serial No. 609,617, Mar. 18. Class 39.
Wholesaler's Service Co., St. Louis, Mo. Automobile and similar clutches and parts thereof. Serial No. 544,669, Mar. 18. Class 23.
Wickbury, Ltd., New York, N. Y. Men's suits, jackets, and slacks. Serial No. 616,193, Mar. 18. Class 39.
Williams Advertising Agency, Inc., New York, N. Y. Research services. Serial No. 600,005, Mar. 18. Class 101.
Willmann's Furriers, Oklahoma City, Okla. Fur storage service. Serial No. 553,157, Mar. 18. Class 105.
Wine Growers Guild, Lodi, Calif. Wines. Serial No. 615,672, Mar. 18. Class 47.
Winthrop-Stearns Inc., New York, N. Y. Anesthetic, hypnotic, and sedative preparation. Serial No. 605,386, Mar. 18. Class 18.
Young, B., & Company, Limited, London, England. Food gelatine. Serial No. 577,838, Mar. 18. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Adams-Millis Corporation, High Point, N. C. Hosiery. 556,387, Mar. 18; Serial No. 612,148, published Dec. 18, 1951. Class 39.

Airway Finishing Corporation, Chicago, Ill. Metal display shelves. 425,685, Nov. 26, 1946. Republished Mar. 18. Class 32.

Alco Oil and Chemical Corp., Philadelphia, Pa. Aqueous dispersions of chemicals. 556,256, Mar. 18; Serial No. 596,893, published Dec. 25, 1951. Class 6.

Alco Oil and Chemical Corp., Philadelphia, Pa. Chemicals. 556,407, Mar. 18; Serial No. 613,891, published Dec. 25, 1951. Class 6.

Alkydol Laboratories, Inc., Cicero, Ill. Polymer and copolymer dispersions in an aqueous phase. 556,270, Mar. 18; Serial No. 599,739, published Jan. 1, 1952. Class 6.

Allied Chemical & Dye Corporation, New York, N. Y. Hydrocarbons, phenols, organic acids and their derivatives, etc. 556,219, Mar. 18; Serial No. 591,011, published Nov. 20, 1951. Class 6.

Allied Raw Materials Company, Inc., New York, N. Y. Vegetable waxes. 556,159, Mar. 18; Serial No. 544,023, published Dec. 25, 1951. Class 6.

All-Steel Equipment Inc., Aurora, Ill. Construction materials. 556,167, Mar. 18; Serial No. 558,433, published Nov. 27, 1951. Class 12.

Allyn, Walter L., Fort Worth, Tex. Spooling cards or plates, of plastic or fiber. 556,451, Mar. 18; Serial No. 605,571. Class 2.

Alrose Chemical Company, Cranston, R. I. Emulsifying agents and surface active agents. 556,307, Mar. 18; Serial No. 605,393, published Dec. 25, 1951. Class 6.

Alrose Chemical Company, Cranston, R. I. Surface active agents. 556,308, Mar. 18; Serial No. 605,397, published Dec. 25, 1951. Class 6.

Aluminum Fabricating Company of Pittsburgh, Pittsburgh, Pa. Storm sash. 556,390, Mar. 18; Serial No. 612,234, published Nov. 27, 1951. Class 12.

American Cyanamid Company, New York, N. Y. Antibiotics and chemo-therapeutic agents. 556,170, Mar. 18; Serial No. 573,861, published Mar. 27, 1951. Class 18.

American Cyanamid Company, New York, N. Y. Evacuants. 556,245, Mar. 18; Serial No. 594,427, published Nov. 13, 1951. Class 18.

American Hydrotherm Corp., New York, N. Y. Engineering services. 556,424, Mar. 18; Serial No. 595,701, published Jan. 1, 1952. Class 100.

American Securities Corporation, New York, N. Y., Chicago, Ill., and Boston, Mass. Investment banking. 556,425, Mar. 18; Serial No. 597,375, published Jan. 1, 1952. Class 102.

American Truck & Body Company, Inc., Martinsville, Va. Special-bodied automotive trucks and special bodies therefor. 556,243, Mar. 18; Serial No. 594,089, published Dec. 11, 1951. Class 19.

American Viscose Corporation, Philadelphia, Pa. Cellulose ethers. 556,393, Mar. 18; Serial No. 612,645, published Nov. 27, 1951. Class 6.

Ansul Chemical Company, Marinette, Wis. Fire extinguishing compositions. 556,255, Mar. 18; Serial No. 596,770, published Nov. 13, 1951. Class 6.

Apkarian, T., & Sons, Reedley, Calif. Fresh grapes. 556,242, Mar. 18; Serial No. 593,851, published Dec. 4, 1951. Class 46.

Armco Steel Corporation, Middletown, Ohio. Alloy steel and corrosion resisting alloy steel in the form of ingots, castings, etc. 556,228, Mar. 18; Serial No. 592,183, published Dec. 18, 1951. Class 14.

Armour and Company, Chicago, Ill. Adrenocorticotrophic hormone. 556,180, Mar. 18; Serial No. 548,379, published Oct. 9, 1951. Class 18.

"Arocna": *See*—
Mondial Company, Inc.

Associated Date Growers & Packers, Indio, Calif. Fresh dates. 556,472, Mar. 18; Serial No. 587,701. Class 46.

Associated Grocers' Company of St. Louis, Missouri, St. Louis, Mo. Canned vegetables, canned fruits, canned fruit juice, etc. 556,385, Mar. 18; Serial No. 611,995, published Dec. 4, 1951. Class 46.

Associated Merchandising Corporation, The, New York, N. Y. Wool hooked rugs. 556,359, Mar. 18; Serial No. 610,488, published Jan. 1, 1952. Class 42.

Association of Better Business Bureaus, Inc., New York, N. Y. Investigative and information services. 556,432, Mar. 18; Serial No. 598,411, published Jan. 1, 1952. Class 101.

Atkinson, J. & E., Limited, London, England. Eau de cologne. 556,233, Mar. 18; Serial No. 592,597, published Nov. 13, 1951. Class 51.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Acid resistant silicate cement. 556,386, Mar. 18; Serial No. 611,996, published Nov. 27, 1951. Class 12.

Autoyre Company, Incorporated, The, Oakville, Conn. Metal kitchen and bathroom accessories. 556,470, Mar. 18; Serial No. 585,506. Class 13.

Avon Products, Inc., New York, N. Y. Cream lotion, bath oil, body powders, etc. 556,350, Mar. 18; Serial No. 609,775, published Nov. 13, 1951. Class 51.

Baber, Alva, doing business as Baber's Supply Company, Sioux City, Iowa. Vitamin concentrates. 556,241, Mar. 18; Serial No. 593,774, published Oct. 9, 1951. Class 18.

Baber's Supply Company: *See*—
Baber, Alva.

Baker Castor Oil Company, The, Jersey City, N. J. Ricinoleic acid derivatives and blends. 556,400, Mar. 18; Serial No. 613,359, published Dec. 25, 1951. Class 6.

Band-It Company, Denver, Colo. Maintenance of tools for applying industrial pressure clamps. 556,420, Mar. 18; Serial No. 552,414, published Jan. 1, 1952. Class 103.

Barbour Stockwell Company, Cambridge, Mass. Power-hammers and trip-hammers. 294,165–6, renewed May 17, 1952. O. G. Mar. 18. Class 23.

Baseline Mfg. Corp., Washington, D. C. Space heating radiators and closures therefor. 556,252, Mar. 18; Serial No. 596,647, published Nov. 27, 1951. Class 34.

Basic Foods, Inc., assignee: *See*—
Michaelis, Curt.

Beacon Products Corporation, Newton Highlands, Mass. Plastic dishes. 556,466, Mar. 18; Serial No. 576,953. Class 2.

Bell, Frank E.: *See*—
Western Consolidated Abstract Co.

Bellanca Aircraft Corporation, New Castle, Del. Airplanes and airplane structural parts. 556,250, Mar. 18; Serial No. 596,322, published May 15, 1951. Class 19.

Bergman, Ted, Miami, Fla. Bottled propane and butane gas. 556,362, Mar. 18; Serial No. 610,734, published Nov. 20, 1951. Class 6.

Berkshire Knitting Mills, Reading and Wyomissing, Pa. Women's full fashioned hosiery. 556,181, Mar. 18; Serial No. 584,850, published Dec. 25, 1951. Class 39.

Bischoff, Ernst, Company, Inc., Ivoryton, Conn. Pharmaceutical preparation. 556,319, Mar. 18; Serial No. 607,414, published Oct. 30, 1951. Class 18.

Blaisdell Pencil Company, Philadelphia, Pa. Wood-cased lead pencils. 544,423, June 26, 1951. Canceled Jan. 25, 1952. O. G. Mar. 18. Class 37.

Bloomingdale Bros., Inc., by Federated Department Stores, Inc., New York, N. Y. Razor blades. 295,542, July 5, 1932. Republished Mar. 18. Class 23.

Bloomingdale Bros., Inc., by Federated Department Stores, Inc., New York, N. Y. Women's and misses' hats. 298,029, Oct. 11, 1932. Republished Mar. 18. Class 39.

Bloomingdale Bros., Inc., by Federated Department Stores, Inc., New York, N. Y. Olive oil shampoo, essence of peppermint, bay rum west indian, pine tar-shampoo, etc. 298,283, Oct. 18, 1932. Republished Mar. 18. Classes 18, 51 and 52.

Bloomingdale Bros., Inc., by Federated Department Stores, Inc., New York, N. Y. Spirits of camphor U.S.P., spirits of nitre U.S.P., aromatic spirits of ammonia U.S.P., etc. 298,664, Nov. 1, 1932. Republished Mar. 18. Class 18.

Bodie-Hoover Petroleum Corporation, Chicago, Ill. Lubricating oil. 556,280, Mar. 18; Serial No. 601,299, published Nov. 13, 1951. Class 15.

Borne Scrymser Company, Elizabeth, N. J. Oil. 556,326, Mar. 18; Serial No. 607,977, published Dec. 4, 1951. Class 15.

Botany Mills, Inc.: *See*—
Botany Worsted Mills.

Botany Worsted Mills, by Botany Mills, Inc., Passaic, N. J. Lounging robes. 391,808, Nov. 25, 1941. Republished Mar. 18. Class 39.

Botany Worsted Mills, to Botany Mills, Inc., Passaic, N. J. Neckties. 294,105, renewed May 17, 1952. O. G. Mar. 18. Class 39.

Bourjois, A., & Co. Inc., by Bourjois, Inc., New York, N. Y. Toilet powders. 999,940, Sept. 29, 1914. Republished Mar. 18. Class 51.

Bourjois, Inc.: *See*—
Bourjois, A., & Co. Inc.

Bowers, Benjamin O., New York, N. Y. Canned sardines and canned shrimps. 122,634, Sept. 3, 1918. Canceled Feb. 1, 1952. O. G. Mar. 18. Class 46.

Brainerd Aluminum Products, Inc., Brainerd, Minn. Metal siding for building construction. 556,251, Mar. 18; Serial No. 596,388, published Nov. 27, 1951. Class 12.

Breathette Co.: *See*—
Schulz, Arthur F.

Broemmel, George M., doing business as Broemmel Pharmaceuticals, San Francisco, Calif. Intramuscular injection. 556,149, Mar. 18; Serial No. 527,114, published Oct. 9, 1951. Class 18.

Broemmel Pharmaceuticals: *See*—
Broemmel, George M.

Brooklyn Telephone Answering Service: *See*—
Schiller, Solomon S.

Brooks, Irving, doing business as Brooks Uniform Co., Dallas, Tex. Uniforms. 556,365, Mar. 18; Serial No. 610,822, published Dec. 25, 1951. Class 39.

Brooks Uniform Co.: *See*—
Brooks, Irving.

Brooks-Weisberg Co., Los Angeles, Calif. Work pants, work trousers, work shirts, etc. 556,345, Mar. 18; Serial No. 609,279, published Nov. 6, 1951. Class 39.

Broome's, Incorporated, Seattle, Wash. Chicken noodles, sauce. 358,764, July 20, 1938. Canceled Jan. 18, 1952. O. G. Mar. 18. Class 46.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 556,376, Mar. 18; Serial No. 611,598, published Nov. 13, 1951. Class 6.

Calhoun Manufacturing Company, Cedar Falls, Iowa. Tractor hitches. 523,550, May 23, 1950. Canceled Feb. 8, 1952. O. G. Mar. 18. Class 23.

California Packing Corporation, San Francisco, Calif. Dried fruit. 556,246, Mar. 18; Serial No. 595,533, published Dec. 25, 1951. Class 46.

California Reinforced Plastics Company, Berkeley, Calif. Panels for general construction and fabrication. 556,247, Mar. 18; Serial No. 596,073, published Nov. 27, 1951. Class 12.

Caloric Stove Corporation, Philadelphia, Pa. Solid fuel cooking and heating stoves and ranges. 556,306, Mar. 18; Serial No. 603,984, published Nov. 27, 1951. Class 34.

Capital City Products Company, The, Columbus, Ohio. Pressed and hydrogenized palm kernel or cocoanut oil, etc. 289,596, renewed Dec. 1, 1951. O. G. Mar. 18. Class 46.

Capitol Undergarment Co., Inc., New York, N. Y. Children's panties. 556,340, Mar. 18; Serial No. 609,072, published Dec. 25, 1951. Class 39.

Carpenter Steel Company, The: *See*—
Webb Wire Works, The.

Castle, Wilmot, Company, Rochester, N. Y. Surgical sterilizers and parts thereof. 556,203, Mar. 18; Serial No. 587,574, published Dec. 18, 1951. Class 44.

Castle, Wilmot, Company, Rochester, N. Y. Surgical sterilizers and parts thereof. 556,208, Mar. 18; Serial No. 588,422, published Dec. 18, 1951. Class 44.

Celotex Corporation, The, assignee: *See*—
Jacobson & Company, Inc.

Celotex Corporation, The, Chicago, Ill. Composition of material for wall boards, box-making material and heat-insulating lumber, etc. 556,165, Mar. 18; Serial No. 555,902, published Dec. 4, 1951. Class 12.

Certain-teed Products Corporation, Ardmore, Pa. Acoustical tile. 556,380, Mar. 18; Serial No. 611,759, published Nov. 27, 1951. Class 12.

Chemagro Corporation: *See*—
Geary Chemical Corp.

Chemi-Sol Chemical and Sales Co., Hutchinson, Kans. Fumigant. 556,222, Mar. 18; Serial No. 591,354, published Nov. 27, 1951. Class 6.

Chicago Eye Shield Company, Chicago, Ill. Protective equipment. 556,172, Mar. 18; Serial No. 576,628, published Nov. 20, 1951. Class 44.

Childers Manufacturing Co., Houston, Tex. Aluminum products. 556,454, Mar. 18; Serial No. 608,816. Class 12.

Chi Phi Fraternity, The, Atlanta, Ga. Organizing of chapters in a national collegiate fraternity and maintaining membership therein. 556,431, Mar. 18; Serial No. 596,262, published Jan. 1, 1952. Class 100.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Disinfectants, insecticides, fungicides, etc. 556,275, Mar. 18; Serial No. 600,816, published Dec. 25, 1951. Class 6.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Disinfectants, insecticides, fungicides, etc. 556,276, Mar. 18; Serial No. 600,818, published Dec. 25, 1951. Class 6.

Civic Survey by Thelma Padgett, Inc., also doing business as Civic Survey, Inc., Syracuse, N. Y. Advertising services. 556,475, Mar. 18; Serial No. 576,571. Class 101.

Civic Survey, Inc.: *See*—
Civic Survey by Thelma Padgett, Inc.

Clark, Fred G., Inc., Cleveland, Ohio, to Sinclair Refining Company, Chicago, Ill. Lubricating oils. 293,881, renewed May 10, 1952. O. G. Mar. 18. Class 15.

Clayton & Lambert Manufacturing Company, Louisville, Ky. Blowtorches and firepots. 556,412, Mar. 18; Serial No. 615,626, published Nov. 27, 1951. Class 34.

Clayton & Lambert Manufacturing Company, Louisville, Ky. Conversion burner units. 556,413, Mar. 18; Serial No. 615,756, published Dec. 4, 1951. Class 34.

Cloverdale Knitwear Corporation, Brooklyn, N. Y. Children's sweaters, jackets, vests, etc. 556,321, Mar. 18; Serial No. 607,619, published Dec. 25, 1951. Class 39.

Clover Farm Stores: *See*—
Grocers & Producers Co., The.

Clover Farm Stores Corporation: *See*—
Grocers & Producers Co., The.

Co-Halant Products: *See*—
Cohen, George.

Cohen, George, doing business as Co-Halant Products, Easton, Pa. Chemical preparation used in the treatment of colds and bronchitis in poultry. 556,232, Mar. 18; Serial No. 592,477, published Nov. 6, 1951. Class 18.

Cohen, Joseph H., & Sons, Inc., New York, N. Y. Men's clothing. 556,372, Mar. 18; Serial No. 611,260, published Dec. 25, 1951. Class 39.

Colarex Company, The: *See*—
Evans, Emanuel E.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Toilet soap. 556,367–8, Mar. 18; Serial Nos. 610,889–90, published Nov. 20, 1951. Class 52.

Columbia River Paper Mills, Portland, Oreg. Printing paper. 556,471, Mar. 18; Serial No. 586,683. Class 37.

Compagnie Electro-Mecanique, assignor to Jas S. A., Paris, France. Watches, clocks, chronometers, etc. 556,294, Mar. 18; Serial No. 603,183, published Sept. 25, 1951. Class 27.

Conn, C. G., Ltd., Elkhart, Ind. Pamphlets or magazines. 293,649, renewed May 3, 1952. O. G. Mar. 18. Class 38.

Conner, H. D., Company: *See*—
Conner, Harold D.

Conner, Harold D., doing business under the name and style of H. D. Conner Company, Wichita, Kans. Chemically treated blocks. 556,183, Mar. 18; Serial No. 587,905, published Dec. 4, 1951. Class 6.

Continental Water Heater Co., assignee: *See*—
Continental Water Heater Company, Ltd.

Continental Water Heater Company, Ltd., assignor to Continental Water Heater Co., Los Angeles, Calif. Hot water tanks and heaters. 556,157, Mar. 18; Serial No. 539,939, published Dec. 6, 1949. Class 34.

Corn Exchange National Bank and Trust Company, Philadelphia, Pa. Blank checks. 289,749, Dec. 1, 1931. Corrected. O. G. Mar. 18. Class 37.

Corn Products Refining Company, New York, N. Y. Syrup. 556,463, Mar. 18; Serial No. 560,190. Class 46.

Cromble, J. & J., Limited, Woodside, Aberdeen, Scotland. Men's and boys' coats, suits, jackets, etc. 556,209, Mar. 18; Serial No. 588,745, published Oct. 30, 1951. Class 39.

Crosse & Blackwell Company, The, Baltimore, Md. Alcoholic beverages. 556,444, Mar. 18; Serial No. 598,785. Class 49.

Crown Overall Manufacturing Company, The, Cincinnati, Ohio. Wearing apparel. 556,231, Mar. 18; Serial No. 592,360, published Dec. 25, 1951. Class 39.

Crystal Shoe Polish Manufacturing Co., The: *See*—
Vassilatos, William T.

Currick & Leiken Co., Inc., New York, N. Y. Sport jackets and topcoats. 556,216, Mar. 18; Serial No. 589,935, published Dec. 25, 1951. Class 39.

Dan River Mills, Incorporated, Danville, Va. Gingham piece goods. 556,375, Mar. 18; Serial No. 611,563, published Jan. 1, 1952. Class 42.

Darling & Company, Chicago, Ill. Fatty acids. 556,402, Mar. 18; Serial No. 613,400, published Dec. 25, 1951. Class 6.

Davidson, John B., Woolen Mills, Inc., Eaton Rapids, Mich. Slippers. 556,253, Mar. 18; Serial No. 596,656, published Dec. 25, 1951. Class 39.

Davis, Jack, New York, N. Y. Fabrics in the piece. 556,364, Mar. 18; Serial No. 610,781, published Jan. 1, 1952. Class 42.

Deering, Milliken & Co., Inc.: *See*—
Vadium Corporation, The.

Deering, Milliken & Co., Inc., New York, N. Y. Woolen piece goods. 289,384, renewed Nov. 24, 1951. O. G. Mar. 18. Class 42.

Defense Committee for the Flax and Linen Industry in Belgium, Tielt, Belgium. Linen piece goods. 556,433, Mar. 18; Serial No. 601,426, published Jan. 1, 1952. Class 42.

Dixon, Delia and C., Missoula, Mont. Ornamental candles. 556,318, Mar. 18; Serial No. 607,318, Nov. 13, 1951. Class 15.

De Vilbiss Company, The, Toledo, Ohio. Combined rubber suction bulb and plastic tube. 556,446, Mar. 18; Serial No. 602,025. Class 2.

Dodge, F. W., Corporation, New York, N. Y. Magazines or trade journals, daily construction reports, etc. 289,435, renewed Nov. 24, 1951. O. G. Mar. 18. Class 38.

Dolcin Corporation, New York, N. Y. Medicinal preparation. 556,205, Mar. 18; Serial No. 587,716, published Nov. 6, 1951. Class 18.

Doodeheefver, F. C., doing business under the name and style of "Gravura," Amsterdam, Netherlands. Wallpapers. 556,462, Mar. 18; Serial No. 559,010. Class 37.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 556,435, Mar. 18; Serial No. 605,849, published Dec. 18, 1951. Class 12.

Douglas Laboratories: *See*—
Douglas, René H.

Douglas, René H., doing business under the name Douglas Laboratories, Evanston, Ill. Vitamin D for the fortification of milk. 556,225, Mar. 18; Serial No. 591,896, published Nov. 20, 1951. Class 18.

Dow Chemical Company, The, Midland, Mich. Diphenol-containing preparation. 556,285, Mar. 18; Serial No. 603,026, published Oct. 9, 1951. Class 18.

Dry-Fed Products Co.: *See*—
Runyon, Cecil H.

Du Brock, Incorporated, Los Angeles, Calif. Non-alcoholic, maltless beverages. 556,468, Mar. 18; Serial No. 582,606. Class 45.

Dubuque Awning & Tent Company, Dubuque, Iowa. Portable heat reflecting and fire-resistant shields. 556,257, Mar. 18; Serial No. 597,070, published Jan. 1, 1952. Class 34.

Duluth-Superior Milling Company, Duluth, Minn., by Standard Milling Company, Chicago, Ill. Wheat flour. 89,017, Nov. 5, 1912. Republished Mar. 18. Class 46.

Du Pont, E. I., de Nemours and Company: *See*—
Newport Chemical Works, Incorporated.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Rubberized or plastic-coated or impregnated fabric to be used for ventilation. 556,263, Mar. 18; Serial No. 598,070, published Nov. 27, 1951. Class 34.

Dura-Tred Hosiery Mills Company, Inc., Burlington, N. C. Hosiery. 556,155, Mar. 18; Serial No. 539,139, published Dec. 18, 1951. Class 39.

Duro Consolidated, Incorporated, Redwood City, Calif. Card filing trays and filing cases therefor. 535,869, Jan. 2, 1951. Canceled Jan. 18, 1952. O. G. Mar. 18. Class 32.

Duti-Duds, Inc., Lynchburg, Va. Uniforms for nurses, technicians, etc. 556,333, Mar. 18; Serial No. 608,413, published Dec. 25, 1951. Class 39.

Dy-Chek Company: *See*—
Northrop Aircraft, Inc.

Dyna-Shave, Inc., Chicago, Ill. Shaving cream. 556,309, Mar. 18; Serial No. 605,471, published Nov. 27, 1951. Class 51.

Eagle Clothes, Inc., New York, N. Y. Men's clothing. 556,381, Mar. 18; Serial No. 611,777, published Dec. 25, 1951. Class 39.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Organic chemicals, inorganic chemicals. 556,354, Mar. 18; Serial No. 610,206, published Dec. 25, 1951. Class 6.

Edmands Coffee Company, Boston, Mass. Coffee and tea. 289,197, renewed Nov. 24, 1951. O. G. Mar. 18. Class 46.

Elkhart Brass Manufacturing Company, Inc., Elkhart, Ind. 556,158, Mar. 18. Fire hose racks, Serial No. 539,861, published Dec. 12, 1950, Class 13; fire hose cabinets, Serial No. 594,531, published Nov. 20, 1951, Class 32. (Consolidated Certificate, Classes 13 and 32.)

Empire Sporting Goods Manufacturing Co. Inc., New York, N. Y. Football pants, football and baseball stirrup-type hose, football jerseys, etc. 556,336, Mar. 18; Serial No. 608,926, published Dec. 25, 1951. Class 39.

Evans, Emanuel E., doing business as The Colarex Company, Youngstown, Ohio, assignor to Rexall Drug Company, Los Angeles, Calif. Fluid extractum kolae, with glucose. 556,260, Mar. 18; Serial No. 597,515, published May 1, 1951. Class 18.

Faber, A. W., Stein, Germany, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J. Crayons, chalks, pencil-leads, etc. 86,522, re-renewed May 14, 1952. O. G. Mar. 18. Class 37.

Faber, A. W., Stein, Germany, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J. Pencil-holders, lead-pencils, screw-pencils, etc. 86,523, re-renewed May 14, 1952. O. G. Mar. 18. Class 37.

Faber-Castell, A. W., Pencil Co., Inc.: *See*—
Faber, A. W.

Federal Loose Leaf Corp., New York, N. Y. Loose leaf binders. 556,450, Mar. 18; Serial No. 603,881. Class 37.

Federated Department Stores, Inc.: *See*—
Bloomingdale Bros., Inc.

Fem-Gene Products Co., Phoenix, Ariz. Antiseptic cleansing and deodorizing douche preparations. 556,204, Mar. 18; Serial No. 587,630, published Nov. 27, 1951. Class 18.

Fermlax Chemical Co.: *See*—
Herndon Drug Company, Inc.

Fette, Henry, & Co., Clifton, N. J. Ready-mixed paints, paint enamels, lacquers and thinners therefor. 537,174, Jan. 30, 1951. Canceled Jan. 25, 1952. O. G. Mar. 18. Class 16.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Artificial and synthetic perfumery compositions; natural and synthetic essential oils, etc. 556,239, Mar. 18; Serial No. 593,665, published Nov. 20, 1951. Class 51.

Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.

Flamo Gas Company, Billings, Mont. Butane and propane gas. 556,399, Mar. 18; Serial No. 613,166, published Dec. 25, 1951. Class 6.

Flash Chemical Co., Boston, to Flash Chemical Co., Cambridge, Mass. Insect and vermin exterminator, disinfectant, and talcum powder. 84,088, re-renewed Nov. 7, 1951. O. G. Mar. 18. Class 51.

Fletcher, H. E., Co., West Chelmsford, Mass. Potassium-bearing soil amender. 556,316, Mar. 18; Serial No. 607,077, published Dec. 25, 1951. Class 10.

Floridian Beverage Company, The: *See*—
Rothe, Walter F.

Fluegelman, N., & Co., Inc., by N. Fluegelman & Co., Inc. (1951), New York, N. Y. Woolen, silk, cotton, rayon and/or combinations thereof in the piece. 297,882, Oct. 4, 1932. Republished Mar. 18. Class 42.

Fluegelman, N., & Co., Inc. (1951): *See*—
Fluegelman, N., & Co., Inc.

Folly Town Company, The, Chicago, Ill. Candy. 556,395, Mar. 18; Serial No. 612,799, published Dec. 4, 1951. Class 46.

Ford, Edward H., New York, N. Y. Entertainment services. 556,417, Mar. 18; Serial No. 537,443, published Jan. 1, 1952. Class 107.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 289,564–5, renewed Dec. 1, 1951. O. G. Mar. 18. Class 42.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 290,035, renewed Dec. 22, 1951. O. G. Mar. 18. Class 42.

Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.

Freedco Products, Inc., New York, N. Y. Replacement parts for passenger automobiles, trucks and buses. 556,179, Mar. 18; Serial No. 583,923, published Dec. 18, 1951. Class 21.

Friendly Neighbor Service, Inc., Falls Church, Va., and District of Columbia. Advertising services. 556,428, Mar. 18; Serial No. 604,362, published Jan. 1, 1952. Class 101.

Frosst, Charles E., & Co., Montreal, Quebec, Canada. Pharmaceutical preparation. 556,223, Mar. 18; Serial No. 591,417, published Nov. 13, 1951. Class 18.

Fulbright Laboratories, Inc., Charlotte, N. C. Water softening agent. 556,315, Mar. 18; Serial No. 607,012, published Sept. 4, 1951. Class 6.

Fulflo Specialties Company, to The Fulflo Specialties Company, Inc., Blanchester, Ohio. Bronze, brass, iron, and acid resistant metal valves. 293,384, renewed Apr. 19, 1952. O. G. Mar. 18. Class 13.

Fulflo Specialties Company, Inc.: *See*—
Fulflo Specialties Company.

Fulton, Robert W., Minneapolis, Minn. Lubricating oil. 556,282, Mar. 18; Serial No. 601,668, published Nov. 13, 1951. Class 15.

Fungitrol Chemicals Incorporated, Hillside, N. J. Economic poisonous composition. 556,374, Mar. 18; Serial No. 611,419, published Nov. 20, 1951. Class 6.

G. & L. Flli Cora, to G. & L. F. lli Cora Soc. p. Az., Turin, Italy. Wine vermouth. 290,132, renewed Dec. 22, 1951. O. G. Mar. 18. Class 47.

G. & L. Flli Cora, to G. & L. F. lli Cora Soc. p. Az., Turin, Italy. Bitters, cordials, liquors, etc. 290,133, renewed Dec. 22, 1951. O. G. Mar. 18. Class 49.

G. & L. Flli Cora, to G. & L. F. lli Cora Soc. p. Az., Turin, Italy. Wines, appetizing wines, sparkling wines. 290,134, renewed Dec. 22, 1951. O. G. Mar. 18. Class 47.

G. & L. F. lli Cora Soc. p. Az.: *See*—
G. & L. Flli Cora.

Gambrills Company, Inc., The, Gambrills, Md. Plaster patch. 556,238, Mar. 18; Serial No. 593,342, published Dec. 18, 1951. Class 12.

Garland Milling Company, by Garland Mills, Inc., Greensburg, Ind. Wheat flour. 374,476, Jan. 9, 1940. Republished Mar. 18. Class 46.

Garland Mills, Inc.: *See*—
Garland Milling Company.

Geary Chemical Corp., assignor to Chemagro Corporation, New York, N. Y. Agricultural insecticide. 556,230, Mar. 18; Serial No. 592,263, published Dec. 4, 1951. Class 6.

General Floor Company Incorporated, New York, N. Y. Fabrication of concrete floors. 556,421, Mar. 18; Serial No. 562,356, published Jan. 1, 1952. Class 103.

Gerber & Co., Inc., New York, N. Y. Cheese. 556,474, Mar. 18; Serial No. 618,034. Class 46.

Gerstendörfer Bros. to Sapolin Paints Inc., New York, N. Y. Paints, enamels, varnishes, etc. 37,945, renewed Mar. 11, 1952. O. G. Mar. 18. Class 16.

Glen Raven Cotton Mills, Inc., Glen Raven, N. C. Fabrics. 556,351, Mar. 18; Serial No. 609,796, published Jan. 1, 1952. Class 42.

Globe Roofing Products Co., Inc., Whiting, Ind. Roofing, insulating board, and insulated siding. 556,224, Mar. 18; Serial No. 591,846, published Dec. 18, 1951. Class 12.

Good Luck Glove Company, Carbondale, Ill. Fabric work gloves. 556,152, Mar. 18; Serial No. 528,920, published Dec. 25, 1951. Class 39.

Gordon, M., Hosiery Mills, Inc., Sinking Spring, Pa. Ladies' hosiery. 556,187, Mar. 18; Serial No. 570,701, published Dec. 11, 1951. Class 39.

Gould, Barbara, Inc., New York, N. Y. Anti-perspirant cream. 556,171, Mar. 18; Serial No. 575,051, published Nov. 27, 1951. Class 51.

Grace-Lee Products Inc., Minneapolis, Minn. Synthetic liquid detergent. 556,274, Mar. 18; Serial No. 600,667, published Dec. 25, 1951. Class 52.

Grandma Moses Properties, Inc., New York, N. Y. Fabrics-in-the-piece. 556,305, Mar. 18; Serial No. 603,923, published Dec. 25, 1951. Class 42.

"Gravura": *See*—
Doodeheefver, F. C.

Griffin, William A., doing business under the fictitious firm name of 3F Products Co., South Pasadena, Calif. Food supplement. 556,215, Mar. 18; Serial No. 589,783, published Oct. 23, 1951. Class 18.

Grocers & Producers Co., The, doing business as Clover Farm Stores, to Clover Farm Stores Corporation, Cleveland, Ohio. Matches. 294,009, renewed May 10, 1952. O. G. Mar. 18. Class 9.

Gruen Watch Company, The, Cincinnati, Ohio. Watches, watch cases, and watch movements. 408,223, July 25, 1944. Canceled Jan. 18, 1952. O. G. Mar. 18. Class 27.

Gundlach, G. P., & Co., Inc., Cincinnati, Ohio. Buttermilk. 556,457, Mar. 18; Serial No. 613,636. Class 46.

Gundlach, T. J., Machine Company: *See*—
Litt'e Giant Punch & Shear Co.

Gundlach, Theodore J.: *See*—
Little Giant Punch & Shear Co.

Gyrodyne Company of America, Inc., New York, N. Y. Aircraft. 556,361, Mar. 18; Serial No. 610,621, published Dec. 25, 1951. Class 19.

H & C Latex Limited, Kuala Lumpur, Federation of Malaya. Rubber latex. 556,236, Mar. 18; Serial No. 592,904, published Nov. 20, 1951. Class 1.

Hachmeister-Inc., Pittsburgh, Pa. Asphalt tile and cement primer. 556,323, Mar. 18; Serial No. 607,898, published Nov. 27, 1951. Class 12.

Haggie, R., Hood & Son, Limited, Newcastle-on-Tyne, England. Ropes. 289,857, renewed Dec. 8, 1951. O. G. Mar. 18. Class 7.

Haines, Charles W., doing business under the name Larchmont Farms, Masonville, N. J. Apple cider. 556,455, Mar. 18; Serial No. 609,924. Class 45.

Hair Bon Laboratories, Inc., Providence, R. I. Scalp ointment. 556,314, Mar. 18; Serial No. 606,773, published Nov. 20, 1951. Class 18.

Hammel, Riglander & Co. Inc., New York, N. Y. Colorless, transparent adhesive cement. 556,235, Mar. 18; Serial No. 592,812, published Dec. 18, 1951. Class 5.

Harris Manufacturing Company, Johnson City, Tenn. Oak and maple flooring and interior wood trim. 290,424, renewed Jan. 5, 1952. O. G. Mar. 18. Class 12.

Harrower Laboratory, Inc., The, Glendale, Calif. Antacid and adsorbent for treatment of gastrointestinal conditions. 556,202, Mar. 18; Serial No. 587,486, published Oct. 30, 1951. Class 18.

Hart, A. H., Co., The, to The Linen Thread Co., Inc., Paterson, N. J. Twine and cord. 86,221, re-renewed Apr. 23, 1952. O. G. Mar. 18. Class 7.

Hercules Powder Company, Wilmington, Del. Colloidal wax and/or colloidal wax-resin sizing and finishing material. 556,398, Mar. 18; Serial No. 613,129, published Dec. 25, 1951. Class 6.

Herndon Drug Company, Inc., doing business as Fermlax Chemical Co., Elberton, Ga. Medicine in the form of an alkaline powder. 556,258, Mar. 18; Serial No. 597,075, published Oct. 30, 1951. Class 18.

Heyden Chemical Corporation, New York, N. Y. Chemicals and chemical preparations. 556,284, Mar. 18; Serial No. 601,913, published Nov. 13, 1951. Class 6.

Hobbs, James P., Niland, Calif. Fresh tomatoes. 556,394, Mar. 18; Serial No. 612,691, published Dec. 4, 1951. Class 46.

Hoffmann-La Roche Inc., Nutley, N. J. Preparation for stimulating or increasing intestinal peristalsis. 293,889, renewed May 10, 1952. O. G. Mar. 18. Class 18.

Holland American Seed Company: *See*—
Luikens, Wilbur.

Hollywood Textile Converters, Los Angeles, Calif. Fabric. 556,369, Mar. 18; Serial No. 610,905, published Jan. 1, 1952. Class 42.

"Home Ideas Company, The": *See*—
Kozil, John.

Hooker Electrochemical Company, Niagara Falls, N. Y. Caustic soda, bleaching-powder, and sulfur chlorid. 84,909, re-renewed Jan. 9, 1952. O. G. Mar. 18. Class 6.

Huibert Manufacturing Company: *See*—
Smash-Proof Company, The.

Hungerford Packing Co., Inc., Hungerford, Pa. Canned vegetables and canned tomato juice. 556,268, Mar. 18; Serial No. 599,047, published Jan. 1, 1952. Class 46.

Hunter Packing Company, East St. Louis, Ill. Smoked ham. 556,254, Mar. 18; Serial No. 596,725, published Oct. 30, 1951. Class 46.

Ideal Toy Corporation, Hollis, N. Y. Dolls. 556,415, Mar. 18; Serial No. 617,499, published Dec. 25, 1951. Class 22.

Independent Lock Company, Fitchburg, Mass. Exit bolts, panic proof exit locks and panic exit devices. 556,312, Mar. 18; Serial No. 606,222, published Dec. 25, 1951. Class 25.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Rapid heating furnaces. 556,317, Mar. 18; Serial No. 607,080, published Nov. 27, 1951. Class 34.

International Broadcasting Corporation, Shreveport, La. Advertising of sponsor's goods and services. 556,430, Mar. 18; Serial No. 608,607, published Jan. 1, 1952. Class 101.

International Salt Company, Scranton, Pa. Salt. 556,443, Mar. 18; Serial No. 597,859. Class 46.

Investographs, Rochester, N. Y. Business history charts and compilations thereof. 556,382, Mar. 18; Serial No. 611,900, published Dec. 11, 1951. Class 38.

Ives-Cameron Company, Inc., New York, N. Y. Iron, vitamin, and liver fraction compound. 556,338, Mar. 18; Serial No. 608,993, published Oct. 30, 1951. Class 18.

Jacobson & Company, Inc., New York, N. Y., assignor to The Celotex Corporation, Chicago, Ill. Metal channel forms. 556,198, Mar. 18; Serial No. 586,488, published Nov. 27, 1951. Class 12.

Jacobson, F., & Sons, Inc., New York, N. Y. Pajamas. 556,331, Mar. 18; Serial No. 608,357, published Dec. 25, 1951. Class 39.

Janalyn Laboratories, Inc., The, Worcester, Mass. Skin protective cream. 556,295, Mar. 18; Serial No. 603,194, published Nov. 20, 1951. Class 51.

Jaz S. A., assignee: *See*—
Compagnie Electro-Mechanique.

Jergens, Andrew, Co., The, New York, N. Y., and Cincinnati, Ohio, to The Andrew Jergens Company, Cincinnati, Ohio. Toilet soap. 85,132, re-renewed Jan. 30, 1952. O. G. Mar. 18. Class 52.

Jergens, Andrew, Co., The, New York, N. Y., and Cincinnati, Ohio, to The Andrew Jergens Company, Cincinnati, Ohio. Perfumes, toilet water, cold cream, etc. 85,133, re-renewed Jan. 30, 1952. O. G. Mar. 18. Class 51.

Jergens, Andrew, Company, The: *See*—
Jergens, Andrew, Co., The.

Johns-Manville Corporation, New York, N. Y. Friction tape. 556,264, Mar. 18; Serial No. 598,482, published Dec. 18, 1951. Class 5.

Johnson, S. C., & Son, Inc., Racine, Wis. Polish for finished metal surfaces. 556,449, Mar. 18; Serial No. 603,369. Class 4.

Kaplan Rice Mill, Inc., Kaplan, La. Rice. 342,963, Feb. 2, 1937. Canceled Feb. 8, 1952. O. G. Mar. 18. Class 46.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Department Stores Company, St. Louis, Mo. Cleaning fluid. 289,657, Dec. 1, 1931. Republished Mar. 18. Class 52.

Kayantee Candy Company, Passaic, N. J. Candy. 433,896, Nov. 4, 1947. Canceled Feb. 8, 1952. O. G. Mar. 18. Class 46.

Kenerson-Edgar Company, assignor to The Kenerson-Edgar Company, Cleveland, Ohio. Metal cleaning and polishing compound. 556,266, Mar. 18; Serial No. 598,653, published Jan. 1, 1952. Class 4.

Kenerson-Edgar Company, The, assignee: *See*—
Kenerson-Edgar Company.

Keystone Mfg. Co., Boston, Mass. Vehicular toys. 294,146, renewed May 17, 1952. O. G. Mar. 18. Class 22.

Kilowattcher Corporation, Chicago, Ill. Control switches. 556,383, Mar. 18; Serial No. 611,958, published Dec. 18, 1951. Class 21.

King Maljan & Company, El Centro, Calif. Fresh vegetables. 556,343, Mar. 18; Serial No. 609,134, published Dec. 25, 1951. Class 46.

Kingston Manufacturing Company, San Antonio, Tex. Children's clothing. 556,337, Mar. 18; Serial No. 608,935, published Dec. 25, 1951. Class 39.

Kinkade & Company Inc., Boston, Mass. Services as insurance agent. 556,429, Mar. 18; Serial No. 608,208, published Jan. 1, 1952. Class 102.

Kircher, Charles W., doing business as North Hollywood Egg Farms, North Hollywood, Calif. Fresh eggs. 556,166, Mar. 18; Serial No. 537,935, published Sept. 27, 1949. Class 46.

Knoll Associates, Inc., New York, N. Y. Curtain and upholstery fabrics. 556,244, Mar. 18; Serial No. 594,384, published Dec. 25, 1951. Class 42.

Knudsen, Svend, doing business as Reedsport Creamery and Cheese Factory, Reedsport, Oreg. Cheese and butter. 556,456, Mar. 18; Serial No. 610,323. Class 46.

Koppers Company, Inc., Pittsburgh, Pa., and Baltimore, Md. Aeroplane propellers. 556,191, Mar. 18; Serial No. 565,635, published Dec. 25, 1951. Class 19.

Kozil, John, doing business under the name and style "The Home Ideas Company," Chicago, Ill. Utility support bar for attachment to bath shower curtain rods. 556,461, Mar. 18; Serial No. 558,306. Class 13.

Kuring & Erickson, Associates, Glendale, Calif. Ready mixed Portland cement and aggregates. 556,164, Mar. 18; Serial No. 555,608, published May 16, 1950. Class 12.

L R M Medicine Company, Augusta, Ga. Medicinal preparation. 556,324, Mar. 18; Serial No. 607,899, published Oct. 9, 1951. Class 18.

Langrock, David T., New Haven, Conn. Men's clothing. 556,160, Mar. 18; Serial No. 548,596, published Dec. 25, 1951. Class 39.

Lapham, Sidney D., Martines, Calif. Hand trucks. 556,279, Mar. 18; Serial No. 601,152, published Dec. 25, 1951. Class 19.

Larchmont Farms: *See*—
Haines, Charles W.

Larson, Leroy J., Bagley, Minn. Surgical splints. 556,298, Mar. 18; Serial No. 603,302, published Dec. 18, 1951. Class 44.

Lasser, Aaron, executor: *See*—
Michaelis, Curt.

Lea Manufacturing Company, The, Waterbury, Conn. Buffing compounds. 556,217, Mar. 18; Serial No. 590,089, published Nov. 13, 1951. Class 4.

Lentheric, Incorporated, New York, N. Y. Perfume, toilet water, sachet, etc. 291,936, renewed Feb. 23, 1952. O. G. Mar. 18. Class 51.

Leonardi, S. B., & Co. Inc., New Rochelle, N. Y. Liquid preparation for the treatment of burns. 556,330, Mar. 18; Serial No. 608,317, published Oct. 9, 1951. Class 18.

Levinsohn Bros. & Co. Inc., New York, N. Y. Clothing. 424,869, Oct. 29, 1946. Republished Mar. 18. Class 39.

Libbey, W. S., Company, Lewiston, Maine. Blankets. 290,537, renewed Jan. 12, 1952. O. G. Mar. 18. Class 42.

Limbach, Curtis A., New York, N. Y. Neckties. 381,787, Oct. 8, 1940. Republished Mar. 18. Class 39.

Linen Thread Co., Inc., The: *See*—
Hart, A. H., Co., The.
Marshall & Company.

Little Giant Punch & Shear Co., Sparta, to T. J. Gundlach, doing business as T. J. Gundlach Machine Company, Belleville, Ill. Machines for punching and shearing iron and combined machines for punching and shearing iron, 85,823, re-renewed Mar. 19, 1952. O. G. Mar. 18. Class 23.

Little Grey Gift Shop: *See*—
Silvaplate Corporation.

Lo-Calory Food Corporation, New York, N. Y. Hair shampoo. 534,161, Nov. 28, 1950. Canceled Jan. 25, 1952. O. G. Mar. 18. Class 52.

Longview Lime Corporation: *See*—
Longview Lime Works.
Saginaw Lime & Stone Co.

Longview Lime Works, Longview, by Longview Lime Corporation, Birmingham, Ala. Lime. 279,811, Jan. 27, 1931. Republished Mar. 18. Class 12.

Los Banos Produce Distributors, Los Banos, Calif. Fresh melons. 556,448, Mar. 18; Serial No. 602,903. Class 46.

Lowry, Samuel K., doing business under the firm name and style of York Drug Store, York, S. C. Medicinal preparation. 556,186, Mar. 18; Serial No. 570,212, published Nov. 20, 1951. Class 18.

Luikens, Wilbur, doing business as Holland American Seed Company, Grand Rapids, Mich. Mixture of bird seed. 556,174, Mar. 18; Serial No. 576,922, published Dec. 25, 1951. Class 46.

Lunkenheimer Company, The, Cincinnati, Ohio. Gate valves. 294,266, renewed May 24, 1932. O. G. Mar. 18. Class 13.

Maltine Company, The, Morris Plains, N. J. Medicinal preparation. 556,377, Mar. 18; Serial No. 611,611, published Nov. 13, 1951. Class 18.

Manhattan Pickle Co., Inc., The, Chicago, Ill. Pickles. 556,435, Mar. 18; Serial No. 588,305. Class 46.

Marroquin, Carlos C., doing business under the name of Nova Laboratories, San Antonio, Tex. Medical eye drops. 556,363, Mar. 18; Serial No. 610,751, published Nov. 13, 1951. Class 18.

Marshall & Company, Kearney, to The Linen Thread Co., Inc., Paterson, N. J. Twine. 86,422, re-renewed May 7, 1952. O. G. Mar. 18. Class 7.

Maxim Silencer Company, The, Hartford, Conn. Heat recovery silencers. 556,158, Mar. 18; Serial No. 541,853, published Jan. 1, 1952. Class 34.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

May Department Stores Company, The, St. Louis, Mo. Dress and negligee shirts. 287,847, Oct. 13, 1931. Republished Mar. 18. Class 39.

McBratney, Robert, & Company, Incorporated, New York, N. Y. Linen piece goods. 556,360, Mar. 18; Serial No. 610,570, published Jan. 1, 1952. Class 42.

McCracken, William E., Medford, Oreg. Cleanser. 556,473, Mar. 18; Serial No. 598,193. Class 52.

Melville Shoe Corporation, New York, N. Y. Hosiery. 292,410, renewed Mar. 15, 1952. O. G. Mar. 18. Class 39.

Memphis Furniture Manufacturing Company, Memphis, Tenn. Furniture. 556,440, Mar. 18; Serial No. 593,232, Class 32.

Merck & Co., Inc., Rahway, N. J. Antibiotic preparations. 556,416, Mar. 18; Serial No. 617,509, published Nov. 13, 1951. Class 18.

Metropolitan Bias Binding Co. Philadelphia, Pa. Plastic and cotton cording. 539,735, Mar. 20, 1951. Canceled Jan. 18, 1952. O. G. Mar. 18. Class 40.

Meypro Ltd., Weinfelden, Switzerland. Chemical auxiliary products. 556,300, Mar. 18; Serial No. 603,637, published Dec. 25, 1951. Class 6.

Meypro Ltd., Weinfelden, Switzerland. Chemical auxiliary products. 556,301–2, Mar. 18: Serial Nos. 603,638–9, published Nov. 20, 1951. Class 6.

Michaelis, Beatrice Y., executrix: *See*—
Michaelis, Curt.

Michaelis, Curt, deceased, New York, N. Y.; B. Y. Michaelis, Weehawken, and A. Lasser, Newark, N. J., executors, assignors to Basic Foods, Inc. Cream filling for cakes. 556,438, Mar. 18; Serial No. 591,634. Class 46.

Mid-States Gummed Paper Co., Chicago, Ill. Gummed paper tape and gummed cloth tape. 556,220, Mar. 18; Serial No. 591,182, published Dec. 18, 1951. Class 5.

Milprint, Inc., Milwaukee, Wis. Cardboard and paper bands or collars. 556,465, Mar. 18; Serial No. 574,635. Class 2.

Mimar Products, Inc., Brooklyn, N. Y. Air circulator. 556,265, Mar. 18; Serial No. 598,537, published Jan. 1, 1952. Class 34.

Minneapolis, St. Paul & Sault Ste. Marie Railroad Company, Minneapolis, Minn. Railroad passenger and freight transportation service. 556,427, Mar. 18; Serial No. 600,345, published Jan. 1, 1952. Class 105.

Miron, Mills, Inc., Clinton, Mass. Wool fabrics. 556,358, Mar. 18; Serial No. 610,448, published Jan. 1, 1952. Class 42.

Mission Citrus Association, Redlands, Calif. Fresh citrus fruits. 556,168, Mar. 18; Serial No. 559,527, published Dec. 4, 1951. Class 46.

Mission Dry Corporation, Los Angeles, Calif. Nonalcoholic maltless beverage, and syrups and extracts for preparing the same. 360,613, Sept. 20, 1938. Canceled Feb. 8, 1952. O. G. Mar. 18. Class 45.

Mock Seed Company, Pittsburgh, Pa. Lawn fertilizer. 556,409, Mar. 18; Serial No. 614,563, published Dec. 25, 1951. Class 10.

Mondial Company, Inc., also doing business under the trade name and style of "Arocna," New York, N. Y. Canned fish. 556,281, Mar. 18; Serial No. 601,366, published Jan. 1, 1952. Class 46.

Monsanto Chemical Company, St. Louis, Mo. Chemicals and chemical compositions. 556,370, Mar. 18; Serial No. 611,100, published Nov. 20, 1951. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Chemicals and chemical compositions. 556,371, Mar. 18; Serial No. 611,101, published Nov. 13, 1951. Class 6.

Morrison Steel Products Inc., Buffalo, N. Y. Overhead retractable garage doors. 556,378, Mar. 18; Serial No. 611,713, published Nov. 27, 1951. Class 12.

Naamlooze Vennootschap 's-Hertogenbossche Schroevengieterij M. Lips, Drunen, Netherlands. Propellers. 556,273, Mar. 18; Serial No. 600,503, published Dec. 4, 1951. Class 19.

Nadeau Laboratory Limited, Montreal, Quebec, Canada. Suppositories. 556,286, Mar. 18; Serial No. 602,279, published Oct. 30, 1951. Class 18.

National Distillers Chemical Corporation, New York, N. Y. Sodium. 556,320, Mar. 18; Serial No. 607,506, published Nov. 13, 1951. Class 6.

National Package Drugs, Inc., St. Louis, Mo. Insecticide. 556,437, Mar. 18; Serial No. 589,328. Class 6.

Natira Sales Company, Allentown, Pa. Men's, women's, and children's underwear and knitted polo and T-shirts. 556,192, Mar. 18; Serial No. 566,093, published Dec. 25, 1951. Class 39.

Naugatuck Chemical Company, The, by United States Rubber Company, New York, N. Y. Unrefined zinc laurate. 288,670, Nov. 3, 1931. Republished Mar. 18. Class 6.

Naugatuck Chemical Company, The, by United States Rubber Company, New York, N. Y. Condensation product of butyraldehyde and aniline. 289,954–5, Dec. 15, 1931. Republished Mar. 18. Class 1.

Naugatuck Chemical Company, The, by United States Rubber Company, New York, N. Y. Mixture of oil and a condensation product of heptaldehyde and aniline. 290,030, Dec. 22, 1931. Republished Mar. 18. Class 6.

Newport Chemical Works, Incorporated, Carrollville, Wis., by E. I. du Pont de Nemours and Company, Wilmington, Del. Perfumed oils. 291,305, Feb. 9, 1932. Republished Mar. 18. Class 51.

New York World-Telegram Corporation: *See*—
Sun Printing & Publishing Association, The.

New York World-Telegram Corporation, New York, N. Y. Section or column appearing in a newspaper or periodical. 292,817, renewed Mar. 29, 1952. O. G. Mar. 18. Class 38.

Niagara Alkali Company, Niagara Falls, N. Y. Chlorine, caustic soda, caustic potash, etc. 556,401, Mar. 18; Serial No. 613,379, published Dec. 25, 1951. Class 6.

Nopco Chemical Company, Harrison, N. J. Sulfated fatty oils, sulfated fatty acids, fatty amides, etc. 556,194, Mar. 18; Serial No. 585,483, published Nov. 20, 1951. Class 4.

North Hollywood Egg Farms: *See*—
Kircher, Charles W.

North Star Manufacturing Co., Tacoma, Wash. Work gloves. 444,671, Mar. 18; Serial No. 485,513, published Jan. 27, 1948. Class 39.

Northrop Aircraft, Inc., doing business as Dy-Chek Company, Hawthorne, Calif. Solutions used to detect surface flaws. 556,278, Mar. 18; Serial No. 601,071, published Jan. 1, 1952. Class 6.

Norwood Laboratories: *See*—
Sewell, John A.

Nova Laboratories: *See*—
Marroquin, Carlos C.

Ohio Leather and Horse Goods Company, The, Cleveland, Ohio. Horse boots, horse saddles, horse blankets, etc. 556,313, Mar. 18; Serial No. 606,317, published Dec. 25, 1951. Class 3.

Oklahoma Clothing Manufacturers, Oklahoma City, Okla. Boys' clothing. 556,339, Mar. 18; Serial No. 609,044, published Dec. 25, 1951. Class 39.

Oliver Corporation, The. *See*—
Oliver Farm Equipment Company.

Oliver Farm Equipment Company, to The Oliver Corporation, Chicago, Ill. Farm tractors, general purpose tractors, orchard tractors, etc. 290,083, renewed Dec. 22, 1951. O. G. Mar. 18. Class 23.

Organon Inc., Orange, N. J. Preparation used in the manufacture of hormonal parenterals. 556,328, Mar. 18; Serial No. 608,216, published Oct. 9, 1951. Class 18.

Ortho Pharmaceutical Corporation, Raritan, N. J. Therapeutic preparations. 556,195–6, Mar. 18; Serial Nos. 585,763–4, published Nov. 6, 1951. Class 18.

Pacific Lumber Company, The, San Francisco, Calif. Organic acid. 556,288, Mar. 18; Serial No. 602,518, published Nov. 20, 1951. Class 6.

Pacific Lumber Company, The, San Francisco, Calif. Organic acid groups. 556,289, Mar. 18; Serial No. 602,519, published Nov. 20, 1951. Class 6.

Pacific Lumber Company, The, San Francisco, Calif. Sodium salt. 556,290–1, Mar. 18; Serial Nos. 602,520–1, published Nov. 20, 1951. Class 6.

Pal, Inc., Washington, D. C. Maltless beverages. 556,460, Mar. 18; Serial No. 532,630. Class 45.

Palm Terrace Fruit Company, Mount Dora, Fla. Fresh citrus fruits, fresh deciduous fruits, fresh vegetables, etc. 556,453, Mar. 18; Serial No. 608,564. Class 46.

Palmers Limited, Montreal, Quebec, Canada. 556,188, Mar. 18. Perfumes and toilet preparations, Serial No. 572,994, published Apr. 10, 1951, Class 51; hand soap, toilet soap, and bath soap, Serial No. 601,521, published May 8, 1951, Class 52. (Consolidated Certificate, Classes 51 and 52.)

Paraffine Companies, Inc., The, San Francisco, Calif., now by change of name Pebco Products, Inc. Asbestos cement shingles and sidings. 556,269, Mar. 18; Serial No. 599,339, published Nov. 27, 1951. Class 12.

Parsons Paper Co., Holyoke, Mass. Bristol board and cover paper. 84,404, re-renewed Dec. 12, 1951. O. G. Mar. 18. Class 37.

Pebco Products, Inc.: *See*—
Paraffine Companies, Inc., The.

Peck & Peck, New York, N. Y. Blouses. 513,419, Aug. 9, 1949. Canceled Jan. 18, 1952. O. G. Mar. 18 Class 39

Peoples' Laboratory Service, Inc., Miami, Fla. Vitamin capsules. 556,332, Mar. 18; Serial No. 608,376, published Oct. 9, 1951. Class 18.

Pepperell Manufacturing Company, Boston, Mass. Sheetings, shirtings, denims, etc. 290,560, renewed Jan. 12, 1952. O. G. Mar. 18. Class 42.

Perfect Circle Corporation, Hagerstown, Ind. Pistons for internal combustion engines and the like. 556,464, Mar. 18; Serial No. 561,483. Class 23.

Peters & Russell, Inc., Springfield, Ohio. Air deflectors for use on automobiles. 556,182, Mar. 18; Serial No. 566,423, published Dec. 11, 1951. Class 19.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc. Antibiotic preparation. 556,176, Mar. 18; Serial No. 582,321, published Nov. 6, 1951. Class 18.

Phillips Chemical Company, Bartlesville, Okla. Carbon compounding material. 556,373, Mar. 18; Serial No. 611,369, published Nov. 20, 1951. Class 6.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 556,384, Mar. 18; Serial No. 611,965, published Nov. 20, 1951. Class 18.

Pikle-Rite Company, Inc., Chicago, Ill., and Pulaski, Wis. Bottled dill pickles. 556,458, Mar. 18; Serial No. 616,242. Class 46.

Pledgewear, Incorporated, St. Louis, Mo. Outer clothing for girls, subteens, and teens. 556,277, Mar. 18; Serial No. 600,913, published Dec. 11, 1951. Class 39.

Prentis Clothes Corp., New York, N. Y. Men's and boys' jackets, overcoats, topcoats, etc. 556,213, Mar. 18; Serial No. 589,473, published Aug. 15, 1950. Class 39.

Quinn, Jay H., doing business as Reading Testing Laboratories, Reading, Pa. Solution for cleaning needles. 556,348, Mar. 18; Serial No. 609,417, published Dec. 25, 1951. Class 52.

Radway & Co. Inc., New York, N. Y. Preparation for the treatment of rheumatism, neuralgia, etc. 293,408, renewed Apr. 19, 1952. O. G. Mar. 18. Class 18.

Rapidol Distributing Corporation, New Hyde Park, N. Y. Shampoo. 556,272, Mar. 18; Serial No. 600,445, published Dec. 25, 1951. Class 52.

Raybestos-Manhattan, Inc., Passaic, N. J. Abrasive wheels. 556,185, Mar. 18; Serial No. 569,640, published Dec. 25, 1951. Class 4.

Rayflex Fabrics, Inc., New York, N. Y. Woven elastic fabrics in the piece. 556,414, Mar. 18; Serial No. 616,967, published Jan. 1, 1952. Class 42.

Rayle, W. B., Pasadena, Calif. Sweet pickled fruits, fruit jellies, etc. 354,238, Feb. 8, 1938. Canceled Jan. 25, 1952. O. G. Mar. 18. Class 46.

Reading Testing Laboratories: *See*—
Quinn, Jay H.

Realistic Company, The: *See*—
Realistic Permanent Wave Machine Company, The.

Realistic Permanent Wave Machine Company, The, Cleveland, to The Realistic Company, Cincinnati, Ohio. Electrical permanent waving heaters; electrical hair waving apparatus. 294,060, renewed May 17, 1952. O. G. Mar. 18. Class 44.

Reamstown Hosiery Mills, Inc., Mohnton, Pa. Ladies' hosiery. 556,175, Mar. 18; Serial No. 578,625, published June 26, 1951. Class 39.

Reardon Company, The, St. Louis, Mo. Waterproof cement paint. 292,027, renewed Mar. 1, 1952. O. G. Mar. 18. Class 12.

Red Star Yeast and Products Company, Milwaukee, Wis. Inactive dry yeast. 556,391, Mar. 18; Serial No. 612,273, published Dec. 4, 1951. Class 46.

Reedsport Creamery and Cheese Factory: *See*—
Knudsen, Svend.

Reemtsma, Bernard A., Garner, Iowa. Clothes line tightener. 556,310, Mar. 18; Serial No. 605,530, published Dec. 25, 1951. Class 24.

Rexall Drug Company, assignee: *See*—
Evans, Emanuel E.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Smoking and chewing tobacco, cigars, cigarettes, and snuff. 86,452, re-renewed May 7, 1952. O. G. Mar. 18. Class 17.

Richfield Oil Corporation, Los Angeles, Calif. Dry cleaning solvents and motor and gear flushing compounds. 556,445, Mar. 18; Serial No. 600,698. Class 52.

Robillo & Cuneo, Memphis, Tenn. Macaroni, noodles, and spaghetti. 332,539, Feb. 18, 1936. Republished Mar. 18. Class 46.

Robillo & Cuneo, Memphis, Tenn. Mixed dried peas, macaroni, noodles, etc. 355,166, Mar. 8, 1938. Republished Mar. 18. Class 46.

Robillo & Cuneo, Memphis, Tenn. Macaroni dinner. 361,622, Oct. 25, 1938. Republished Mar. 18. Class 46.

Robinson-Wagner Co., Inc., New York, N. Y. Mixture of liquid lanolin alcohols. 556,403, Mar. 18; Serial No. 613,477, published Dec. 25, 1951. Class 6.

Rockford Mitten & Hosiery Company, Rockford, Ill. Hosiery. 556,161, Mar. 18; Serial No. 548,847, published Dec. 18, 1951. Class 39.

Rocon, Inc., Denver, Colo. Rodent poisons. 556,341, Mar. 18; Serial No. 609,102, published Nov. 20, 1951. Class 6.

Rohm & Haas Company, Philadelphia, Pa. Enzyme product. 292,913, renewed Mar. 29, 1952. O. G. Mar. 18. Class 6.

Rosenblum, Joseph, New York, N. Y. Cheese. 349,891, Sept. 14, 1937. Canceled Jan. 18, 1952. O. G. Mar. 18. Class 46.

Rothe, Walter F., doing business as The Floridian Beverage Company, Washington, D. C. Ale. 556,469, Mar. 18; Serial No. 584,549. Class 48.

Roxborough Company, The, Philadelphia, Pa. Chemical composition. 556,218, Mar. 18; Serial No. 590,995, published Nov. 20, 1951. Class 6.

Runyon, Cecil H., doing business as Dry-Ped Products Co., Portland, Oreg. Oil and grease products. 556,212, Mar. 18; Serial No. 589,395, published Oct. 2, 1951. Class 6.

Saginaw Lime & Stone Co., Saginaw, by Longview Lime Corporation, Birmingham, Ala. Lime. 278,618, Dec. 23, 1930. Republished Mar. 18. Class 12.

Saltwater Farm Incorporated, Damariscotta, Maine. Live seafood. 556,452, Mar. 18; Serial No. 605,810. Class 46.

Salz, A. K., Company, Santa Cruz, Calif. Cattle hide leather. 556,227, Mar. 18; Serial No. 592,003, published Dec. 18, 1951. Class 1.

Sanford Ink Company, Bellwood, Ill. Fluid ink eradicator. 556,199, Mar. 18; Serial No. 586,822, published July 17, 1951. Class 52.

Sani-Mist, Inc., assignee: *See*—
Waverly Petroleum Products Company.

Sapolin Paints Inc.: *See*—
Gerstendörfer Bros.

Schenley Laboratories, Inc., New York, N. Y. Tablets for use as a vascular protective and lipotropic agent. 556,200, Mar. 18; Serial No. 587,356, published Oct. 30, 1951. Class 18.

Schieffelin & Company, New York, N. Y. Shampoo. 292,268, renewed Mar. 8, 1952. O. G. Mar. 18. Class 52.

Schiller, Solomon S., doing business as Brooklyn Telephone Answering Service, Brooklyn, N. Y. Telephone answering service to dentists. 556,422, Mar. 18; Serial No. 568,536, published Jan. 1, 1952. Class 101.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Corn, callous, and bunion pads, corn and bunion shields, etc. 556,211, Mar. 18; Serial No. 589,338, published Dec. 18, 1951. Class 44.

Schorsch & Co., Inc., New York, N. Y. Wrapping papers. 344,940, Apr. 6, 1937. Canceled Jan. 25, 1952. O. G. Mar. 18. Class 37.

Schreiber, Brantman & Wyner, Inc., by I. A. Wyner & Co., Inc., New York, N. Y. Knitted goods. 191,157, Nov. 4, 1924. Republished Mar. 18. Class 42.

Schreiber, Brantman & Wyner, Inc., by I. A. Wyner & Co., Inc., New York, N. Y. Unfinished knitted vests, step-ins, bloomers, etc. 195,374, Feb. 24, 1925. Republished Mar. 18. Class 39.

Schulz, Arthur F., doing business under the firm name of Breathette Co., Kansas City, Mo. Preparation in tablet form for use as a remedy. 556,214, Mar. 18; Serial No. 589,746, published May 29, 1951. Class 18.

Schwartz, Louis E., Brooklyn, N. Y. Grooved phonograph records. 556,184, Mar. 18; Serial No. 568,755, published Dec. 25, 1951. Class 36.

Scientific Solutions, Inc., West Palm Beach, Fla. Liquid preparations for application to textiles to render them fire retardant. 556,392, Mar. 18; Serial No. 612,376, published Nov. 27, 1951. Class 6.

Screens & Fabricated Metals Corp., North Bergen, N. J. Window screens. 556,234, Mar. 18; Serial No. 592,667, published Nov. 27, 1951. Class 12.

Sears, Roebuck and Co., Chicago, Ill. Stock stalls, brooder houses, farrowing houses, etc. 556,163, Mar. 18; Serial No. 551,408, published Nov. 27, 1951. Class 12.

Senmer Company, Youngstown, Ohio. Aluminum hydroxide preparation. 556,177, Mar. 18; Serial No. 583,173, published Oct. 9, 1951. Class 18.

Sewell, John A., doing busines as Norwood Laboratories, Chicago, Ill. Chemical preparations. 556,237, Mar. 18; Serial No. 593,294, published Dec. 25, 1951. Class 6.

Seydel-Woolley & Company, Atlanta, Ga. Chemical preparations. 556,173, Mar. 18; Serial No. 576,661, published Jan. 1, 1952. Class 6.

Sharpe & Dohme, Incorporated, Philadelphia, Pa. Diuretic. 556,344, Mar. 18; Serial No. 609,204, published Oct. 30, 1951. Class 18.

Shell Oil Company, New York, N. Y. Motor oil and lubricating greases. 556,299, Mar. 18; Serial No. 603,600, published Nov. 13, 1951. Class 15.

Sheraton Mills, Inc., New York, N. Y. Fabrics. 556,366, Mar. 18; Serial No. 610,867, published Jan. 1, 1952. Class 42.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, varnishes, lacquers, etc. 289,218, renewed Nov. 24, 1951. O. G. Mar. 18. Class 16.

Shirtcraft Company, Inc., The, New York, N. Y. Men's, boys' and ladies' jackets. 556,229, Mar. 18; Serial No. 592,225, published Dec. 25, 1951. Class 39.

Siegel, Henry L., Co. Inc., New York, N. Y. Men's and boys' work clothes. 556,311, Mar. 18; Serial No. 605,536, published Dec. 25, 1951. Class 39.

Silvaplate Corporation, doing business under the name Little Grey Gift Shop, New York, N. Y. Silver-plating liquid polish. 556,442, Mar. 18; Serial No. 596,200. Class 4.

Sinclair Refining Company: *See*—
Clark, Fred G., Inc.

Sinclair Refining Company, New York, N. Y., to Sinclair Refining Company, Chicago, Ill. Lubricating oil. 291,312, renewed Feb. 9, 1952. O. G. Mar. 18. Class 15.

Siris, A. J., Products Corp., New York, N. Y. Wallets, utility bags and cosmetic bags. 556,397, Mar. 18; Serial No. 613,026, published Dec. 25, 1951. Class 3.

Skinner, Jarrett, Flint, Mich. Liniment. 556,379, Mar. 18; Serial No. 611,726, published Nov. 13, 1951. Class 18.

Smash-Proof Company, The, also doing business as Hulbert Manufacturing Company, Ashtabula, Ohio. Dolly casters. 556,297, Mar. 18; Serial No. 603,295, published Dec. 25, 1951. Class 19.

Smith-Dorsey Company, The, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill. Cardiovascular preparation. 556,322, Mar. 18; Serial No. 607,767, published Oct. 9, 1951. Class 18.

Smith, J. Hungerford, Co., Rochester, N. Y. Liquid flavoring. 556,436, Mar. 18; Serial No. 588,762. Class 46.

Smith, Kline & French Laboratories, Philadelphia, Pa. Medical preparation. 556,334, Mar. 18; Serial No. 608,721, published Oct. 30, 1951. Class 18.

Societe Normande de Produits Chimiques, Paris, France. Petroleum oils, essences, and greases. 556,283, Mar. 18; Serial No. 601,759, published Nov. 13, 1951. Class 15.

Society for the Advancement of Management, Inc., The, New York, N. Y. Monthly publication. 556,261, Mar. 18; Serial No. 597,847, published Dec. 18, 1951. Class 38.

Soreghen, George L., Chicago, Ill. Halters, hame-straps, leather bridles, etc. 412,163, Feb. 20, 1945. Republished Mar. 18. Class 3.

Soreghen, George L., Chicago, Ill. Rope. 412,669, Mar. 20, 1945. Republished Mar. 18. Class 7.

Southwest Airways Company, South San Francisco, Calif. Transportation by aircraft of persons, property and mail. 556,477, Mar. 18; Serial No. 591,702. Class 105.

Southwest Manufacturing Company, Little Rock, Ark. Boats. 556,355, Mar. 18; Serial No. 610,300, published Dec. 25, 1951. Class 19.

Special Chemicals Company, The, Cleveland, Ohio. Polyvinyl acetate emulsion. 556,293, Mar. 18; Serial No. 603,169, published Nov. 27, 1951. Class 6.

Spliced wood Corporation, Mellen, Wis. Plywood. 556,207, Mar. 18; Serial No. 588,115, published Nov. 27, 1951. Class 12.

Spontane Mfg. Company, Atlanta, Ga. Chemical compounds. 556,221, Mar. 18; Serial No. 591,202, published Nov. 20, 1951. Class 6.

Squibb, E. R., & Sons, New York, N. Y. Estrogenic preparations. 556,206, Mar. 18; Serial No. 587,831, published Nov. 13, 1951. Class 18.

Squibb, E. R., & Sons, New York, N. Y. Antileprotic preparation. 556,303, Mar. 18; Serial No. 603,651, published Nov. 13, 1951. Class 18.

Squibb, E. R., & Sons, New York, N. Y. Antispastic preparation. 556,304, Mar. 18; Serial No. 603,652, published Nov. 13, 1951. Class 18.

Staley, A. E., Manufacturing Company, Decatur, Ill. Soy flour. 556,459, Mar. 18; Serial No. 530,130. Class 46.

Stalfort Pressure-Pak, Inc., Baltimore, Md. Aerosol insecticide spray. 556,408, Mar. 18; Serial No. 614,368, published Dec. 25, 1951. Class 6.

Standard Milling Company: *See*—
Duluth-Superior Milling Company.

Standard Oil Company, Whiting, Ind., and Chicago, Ill. Petrolatum, insecticides, fungicides, and herbicides. 556,201, Mar. 18; Serial No. 587,365, published Dec. 4, 1951. Class 6.

Star Metal Manufacturing Co., Inc., Philadelphia, Pa. Coffee brewing urns and parts thereof. 556,327, Mar. 18; Serial No. 608,048, published Nov. 27, 1951. Class 34.

Stauffer Chemical Company, San Francisco, Calif. Mite control material. 556,356, Mar. 18; Serial No. 610,344, published Nov. 20, 1951. Class 6.

Stephens, W. E., Mfg. Co., Inc., Nashville, Tenn. Dungarees. 556,396, Mar. 18; Serial No. 612,935, published Dec. 25, 1951. Class 39.

Stockport Distributing Company (Mail Order) Limited, The, Stockport, England. Greenhouse heaters. 556,411, Mar. 18; Serial No. 614,731, published Jan. 1, 1952. Class 34.

Stokes Molded Products, Inc., Trenton, N. J. Semi-hard rubber. 556,240, Mar. 18; Serial No. 593,696, published Nov. 20, 1951. Class 1.

Storecast Corporation of America, New York, N. Y. Advertising the goods of others. 556,426, Mar. 18; Serial No. 599,298, published Jan. 1, 1952. Class 101.

Strasenburgh, R. J., Company, Rochester, N. Y. Medicinal preparation. 556,325, Mar. 18; Serial No. 607,906, published Oct. 9, 1951. Class 18.

Sun Printing & Publishing Association, The, to New York World-Telegram Corporation, New York, N. Y. Title of a column. 289,942, renewed Dec. 15, 1951. O. G. Mar. 18. Class 38.

Superior Insulating Tape Company, St. Louis, Mo. Friction tape and rubber splicing compound and white mason tape. 330,431, Dec. 3, 1935. Republished Mar. 18. Class 21.

Swanson, C. A., & Sons, Omaha, Nebr. Boned chicken and boned turkey. 556,151, Mar. 18; Serial No. 527,994, published Sept. 19, 1950. Class 46.

Synthetic & Industrial Finishes Limited, Watford, England. Chemical preparation. 556,296, Mar. 18; Serial No. 603,210, published Dec. 25, 1951. Class 6.

Tasty Baking Company, Philadelphia, Pa. Rolls, cinnamon cake, sticky buns, etc. 289,747, renewed Dec. 1, 1951. O. G. Mar. 18. Class 46.

Taylor Provision Company, The, Trenton, N. J. Pork roll. 86,177, re-renewed Apr. 16, 1952. O. G. Mar. 18. Class 46.

Technicon Chemical Company, Inc., New York, N. Y. Liquid for removing paraffin from histological tissue specimens. 556,388, Mar. 18; Serial No. 612,185, published Nov. 27, 1951. Class 6.

Telefunken Försäljningsaktiebolag, Stockholm, Sweden. Mechanically grooved phonograph records. 556,259, Mar. 18; Serial No. 597,177, published Dec. 25, 1951. Class 36.

Tenderet Sales Company, Chicago, Ill. Preparation consisting of dehydrated egg albumen and egg yolk and heat treated corn flour. 556,162, Mar. 18; Serial No. 550,859, published Dec. 18, 1951. Class 46.

Texize Chemicals, Inc., Greenville, S. C. Silver polish. 444,672, Mar. 18; Serial No. 518,489, published Jan. 1, 1952. Class 4.

Thread Compounds Manufacturing Company, Gardena, Calif. Tool joint compound. 556,226, Mar. 18; Serial No. 591,966, published Nov. 27, 1951. Class 12.

3F Products Co.: *See*—
Griffin, William A.

Toch Brothers, Inc., New York, to Toch Brothers, Incorporated, Staten Island, N. Y. Liquid, semi-liquid, powder, paste, and plastic compositions other than paints. 294,050, renewed May 17, 1952. O. G. Mar. 18. Class 16.

Toch Brothers, Incorporated: *See*—
Toch Brothers, Inc.

Tolmie Stock Preparations Co., Inc., Geneva, N. Y. General tonic. 556,439, Mar. 18; Serial No. 593,025. Class 18.

Topps Chewing Gum, Incorporated, Brooklyn, N. Y. Chewing gum. 556,153, Mar. 18; Serial No. 534,839, published Nov. 7, 1950. Class 46.

Treasure Island, Inc., Cleveland, Ohio. Promotional advertising services. 556,423, Mar. 18; Serial No. 584,171, published Jan. 1, 1952. Class 101.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

United States Rubber Company: *See*—
Naugatuck Chemical Company, The.

United States Spring & Bumper Company, Los Angeles, Calif. Automobile springs. 556,210, Mar. 18; Serial No. 589,285, published Dec. 11, 1951. Class 19.

United Surplus Associates, New York, N. Y. Men's suits, trousers, jackets, etc. 556,342, Mar. 18; Serial No. 609,110, published Dec. 25, 1951. Class 39.

Universal Laboratories, Inc., East Orange, assignor, by mesne assignments, to Westport Laboratories, Inc., Bridgeton, N. J. Bath salts, cologne, cake make-up, etc. 556,169, Mar. 18; Serial No. 560,787, published Apr. 18, 1950. Class 51.

Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. 556,193, Mar. 18; Serial No. 573,063, published Oct. 9, 1951. Class 18.

Usines Chimiques des Laboratoires Francais, Paris, France. Pharamaceutical compounds. 556,267, Mar. 18; Serial No. 599,037, published Nov. 6, 1951. Class 18.

Utica Knitting Company, Utica, N. Y. Men's, women's, boys' and children's knitted and woven underwear, swim trunks, sweaters, etc. 556,178, Mar. 18; Serial No. 583,897, published Dec. 25, 1951. Class 39.

Vadium Corporation, The, to Deering, Milliken & Co., Inc., New York, N. Y. Textile fabrics. 551,291, Nov. 27, 1951. New certificate. O. G. Mar. 18. Class 42.

Valcort Hosiery Corporation, New York, N. Y. Ladies' hosiery. 556,389, Mar. 18; Serial No. 612,188, published Dec. 18, 1951. Class 39.

Valley Paper Company, Holyoke, Mass. Writing and typewriter paper. 556,150, Mar. 18; Serial No. 527,525, published Jan. 1, 1952. Class 37.

Van Raalte Company, Inc., New York, N. Y. Underwear. 294,110, renewed May 17, 1952. O. G. Mar. 18. Class 39.

Vassilatos, William T., doing business as The Crystal Shoe Polish Manufacturing Co., Chicago, Ill. Leather dressings and polishes. 286,022, renewed Aug. 11, 1951. O. G. Mar. 18. Class 4.

Virginia Smelting Company, West Norfolk, Va. Aerosol insecticide. 556,347, Mar. 18; Serial No. 609,385, published Nov. 13, 1951. Class 6.

Virginia Smelting Company, West Norfolk, Va. Liquid sulfur dioxide. 556,410, Mar. 18; Serial No. 614,589, published Dec. 25, 1951. Class 6.

W-B Chemical Company, Inc., South Mount Vernon, N. Y. Soapless shampoo. 556,190, Mar. 18; Serial No. 563,646, published Nov. 27, 1951. Class 52.

W. & D. Distributors, Chicago, Ill. Antiseptic, non-toxic solution. 556,329, Mar. 18; Serial No. 608,230, published Oct. 9, 1951. Class 18.

Walworth Company, Boston, Mass. Wrenches. 556,292, Mar. 18; Serial No. 602,535, published Apr. 17, 1951. Class 23.

Wander Company, The, assignee: *See*—
Smith-Dorsey Company, The.

Wargöns Aktiebolag, Vargon, Sweden. Chemical products. 556,287, Mar. 18; Serial No. 602,351, published Dec. 25, 1951. Class 6.

Washington, Martha, Candies Co., Chicago, Ill. Candies. 556,441, Mar. 18; Serial No. 593,760. Class 46.

Watkins, Phyllis E., doing business under the name and style of Victor E. Watkins Company, Holland, Mich. Motor boats and structural parts thereof. 556,346, Mar. 18; Serial No. 609,349, published Dec. 11, 1951. Class 19.

Watkins, Victor E., Company: *See*—
Watkins, Phyllis E.

Waverly Petroleum Products Company, assignor to Sani-Mist, Inc., Philadelphia, Pa. Solution formulated as a prophylaxis to fight athlete's foot. 556,335, Mar. 18; Serial No. 608,726, published Oct. 30, 1951. Class 18.

Webb Wire Works, The, New Brunswick, N. J., by The Carpenter Steel Company, Reading, Pa. Wire. 83,795, Oct. 10, 1911. Republished Mar. 18. Class 14.

Weber and Heilbroner, Inc., New York, N. Y. Men's coats, vests, pants, etc. 556,357, Mar. 18; Serial No. 610,348, published Dec. 25, 1951. Class 39.

Wells Lamont Corporation, Chicago, Ill. Workingmen's gloves. 556,154, Mar. 18; Serial No. 535,914, published Dec. 18, 1951. Class 39.

West Laboratories, Inc., Long Is and City, N. Y. Chemical compositions. 556,404, Mar. 18; Serial No. 613,541, published Dec. 25, 1951. Class 6.

West Laboratories, Inc., Long Island City, N. Y. Chemical compositions. 556,405, Mar. 18; Serial No. 613,545, published Dec. 25, 1951. Class 6.

West Laboratories, Inc., Long Island City, N. Y. Chemical compositions. 556,406, Mar. 18; Serial No. 613,547, published Dec. 25, 1951. Class 6.

Westcott & Greis, Inc., Tulsa, Okla. Installation, calibration, adjustment, etc., of measurement and control equipment. 556,418, Mar. 18; Serial No. 541,619, published Jan. 1, 1952. Class 103.

Westcott & Greis, Inc., Tulsa, Okla. Installation, calibration, adjustment, etc., of measurement and control equipment. 556,419, Mar. 18; Serial No. 541,620, published Dec. 25, 1951. Class 103.

Western Consolidated Abstract Co., assignee of F. E. Bell, doing business under the name and style of Western Consolidated Abstract Co., Midland, Tex. Abstracting of records pertaining to titles to real estate and other similar documents. 556,476, Mar. 18; Serial No. 587,846. Class 100.

Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets and loose writing paper. 556,148, Mar. 18; Serial No. 526,161, published Jan. 1, 1952. Class 37.

Westport Laboratories, Inc., assignee: *See*—
Universal Laboratories, Inc.

White Laboratories, Inc., Newark, N. J. Germicidal emollient. 556,271, Mar. 18; Serial No. 600,365, published Nov. 20, 1951. Class 18.

Whitewater Raincoat Company, Whitewater, Wis. Waterproof fabrics. 556,349, Mar. 18; Serial No. 609,618, published Jan. 1, 1952. Class 42.

Williams, Walter, Candy Co., Oklahoma City, Okla. Coconut candy bar. 556,189, Mar. 18; Serial No. 563,560, published Dec. 25, 1951. Class 46.

Willson Products, Inc., Reading, Pa. Goggles. 294,226, renewed May 24, 1952. O. G. Mar. 18. Class 26.

Wilson & Toomer Fertilizer Co., Jacksonville, Fla. Preparation having wetting, spreading and sticking properties. 556,262, Mar. 18; Serial No. 597,928, published Nov. 13, 1951. Class 6.

Winterbottom Book Cloth Company Limited, The, Manchester, England. Tracing cloth. 556,447, Mar. 18; Serial No. 602,589. Class 37.

Winthrop-Stearns Inc., New York, N. Y. Preparation for producing muscular relaxation. 556,352, Mar. 18; Serial No. 610,038, published Nov. 13, 1951. Class 18.

Winthrop-Stearns Inc., New York, N. Y. Spasmolytic drug. 556,353, Mar. 18; Serial No. 610,155, published Nov. 13, 1951. Class 18.

Witwer Grocer Company, Cedar Rapids, Iowa. Maltless nonalcoholic carbonated beverages. 382,561, Oct. 29, 1940. Canceled Jan. 25, 1952. O. G. Mar. 18. Class 45.

Wohl Shoe Company, St. Louis, Mo. Women's and misses' shoes, boots, etc. 293,902, renewed May 10, 1952. O. G. Mar. 18. Class 39.

Wood Newspaper Machinery Corporation, New York, N. Y., to Wood Newspaper Machinery Corporation, Plainfield, N. J. Mechanism for automatically attaching printing plates to the printing cylinders of a printing press. 293,237, renewed Apr. 19, 1952. O. G. Mar. 18. Class 23.

Wood Newspaper Machinery Corporation, New York, N. Y., to Wood Newspaper Machinery Corporation, Plainfield, N. J. Machine for automatically replenishing the paper rolls of printing presses. 293,238, renewed Apr. 19, 1952. O. G. Mar. 18. Class 23.

Wyeth Incorporated, Philadelphia, Pa. Dietary supplement. 556,248, Mar. 18; Serial No. 596,142, published Oct. 30, 1951. Class 18.

Wylie Brothers, Inc., Oklahoma City, Okla. Stove for heating paving materials. 556,249, Mar. 18; Serial No. 596,251, published Dec. 4, 1951. Class 34.

Wyner, I. A., & Co., Inc.: *See*—
Schreiber, Brantman & Wyner, Inc.

Wyner, I. A., & Co., Inc., New York, N. Y. Piece goods. 204,482, Oct. 20, 1925. Republished Mar. 18. Class 42.

Wyner, I. A., & Co., Inc., New York, N. Y. Silk and wool knitted fabric in the piece. 210,826, Mar. 23, 1926. Republished Mar. 18. Class 42.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted piece goods. 217,651, Sept. 7, 1926. Republished Mar. 18. Class 42.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted piece goods. 218,273, Sept. 21, 1926. Republished Mar. 18. Class 42.

Wyner, I. A., & Co., Inc., New York, N. Y. Knitted piece goods. 221,063, Nov. 23, 1926. Republished Mar. 18. Class 42.

Wyner, I. A., & Co., Inc., New York, N. Y. Piece goods. 402,726, Aug. 10, 1943. Republished Mar. 18. Class 42.

York Drug Store: *See*—
Lowry, Samuel K.

Zodrop Company, The, Harrisburg, Ill. Nasal drops. 556,197, Mar. 18; Serial No. 586,260, published Nov. 13, 1951. Class 18.

Zurn, J. A., Mfg. Co., Erie, Pa. Roof drains. 556,467, Mar. 18; Serial No. 578,000. Class 13.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Condensation product of butyraldehyde and aniline. The Naugatuck Chemical Company. 289,954–5, Dec. 15, 1931. Republished Mar. 18.

Leather, Cattle hide. A. K. Salz Company. 556,227, Mar. 18; Serial No. 592,003, published Dec. 18, 1951.

Rubber latex. H & C Latex Limited. 556,236, Mar. 18; Serial No. 592,904, published Nov. 20, 1951.

Semi-hard rubber. Stokes Molded Products, Inc. 556,240, Mar. 18; Serial No. 593,696, published Nov. 20, 1951.

CLASS 2

Cardboard and paper bands or collars. Milprint, Inc. 556,465, Mar. 18; Serial No. 574,635.

Combined rubber suction bulb and plastic tube. The De Vilbiss Company. 556,446, Mar. 18; Serial No. 602,025.

Plastic dishes. Beacon Products Corporation. 556,466, Mar. 18; Serial No. 576,953.

Spooling cards or plates, of plastic or fiber. W. L. Allyn. 556,451, Mar. 18; Serial No. 605,571.

CLASS 3

Halters, hame-straps, leather bridles, etc. G. L. Soreghen. 412,163, Feb. 20, 1945. Republished Mar. 18.
Horse boots, horse saddles, horse blankets, etc. The Ohio Leather and Horse Goods Company. 556,313, Mar. 18; Serial No. 606,317, published Dec. 25, 1951.
Wallets, utility bags and cosmetic bags. A. J. Siris Products Corp. 556,397, Mar. 18; Serial No. 613,026, published Dec. 25, 1951.

CLASS 4

Abrasive wheels. Raybestos-Manhattan, Inc. 556,185, Mar. 18; Serial No. 569,640, published Dec. 25, 1951.
Buffing compounds. The Lea Manufacturing Company. 556,217, Mar. 18; Serial No. 590,089, published Nov. 13, 1951.
Cleaning and polishing compound, Metal. Kenerson-Edgar Company. 556,266, Mar. 18; Serial No. 598,655, published Jan. 1, 1952.
Leather dressings and polishes. W. T. Vassiliatos. 286,022, renewed Aug. 11, 1951. O. G. Mar. 18.
Polish for finished metal surfaces. S. C. Johnson & Son, Inc. 556,449, Mar. 18; Serial No. 603,369.
Polish, Silver. Texize Chemicals, Inc. 444,672, Mar. 18; Serial No. 518,489, published Jan. 1, 1952.
Polish, Silver-plating liquid. Silvaplate Corporation. 556,442, Mar. 18; Serial No. 596,200.
Sulfated fatty oils, sulfated fatty acids, fatty amides, etc. Nopco Chemical Company. 556,194, Mar. 18; Serial No. 585,483, published Nov. 20, 1951.

CLASS 5

Adhesive cement, Colorless, transparent. Hammel, Riglander & Co. Inc. 556,235, Mar. 18; Serial No. 592,812, published Dec. 18, 1951.
Tape, Friction. Johns-Manville Corporation. 556,264, Mar. 18; Serial No. 598,482, published Dec. 18, 1951.
Tape, Gummed paper, and gummed cloth tape. Mid-States Gummed Paper Co. 556,220, Mar. 18; Serial No. 591,182, published Dec. 18, 1951.

CLASS 6

Aerosol insecticide spray. Stalfort Pressure-Pak, Inc. 556,408, Mar. 18; Serial No. 614,368, published Dec. 25, 1951.
Agricultural insecticide. Geary Chemical Corp. 556,230, Mar. 18; Serial No. 592,263, published Dec. 4, 1951.
Aqueous dispersions of chemicals. Alco Oil and Chemical Corp. 556,256, Mar. 18; Serial No. 596,893, published Dec. 25, 1951.
Bottled propane and butane gas. T. Bergman 556,362, Mar. 18; Serial No. 610,734, published Nov. 20, 1951.
Butane and propane gas. Flamo Gas Company. 556,399, Mar. 18; Serial No. 613,166, published Dec. 25, 1951.
Carbon black. Godfrey L. Cabot, Inc. 556,376, Mar. 18; Serial No. 611,598, published Nov. 13, 1951.
Carbon compounding material. Phillips Chemical Company. 556,373, Mar. 18; Serial No. 611,369, published Nov. 20, 1951.
Caustic soda, bleaching-powder, and sulfur chlorid. Hooker Electrochemical Company. 84,909, re-renewed Jan. 9, 1952. O. G. Mar. 18.
Cellulose ethers. American Viscose Corporation. 556,393, Mar. 18; Serial No. 612,645, published Nov. 27, 1951.
Chemical auxiliary products. Meypro Ltd. 556,300, Mar. 18; Serial No. 603,637, published Dec. 25, 1951.
Chemical auxiliary products. Meypro Ltd. 556,301–2, Mar. 18; Serial Nos. 603,638–9, published Nov. 20, 1951.
Chemical composition. The Roxborough Company. 556,218, Mar. 18; Serial No. 590,993, published Nov. 20, 1951.
Chemical compositions. West Laboratories, Inc. 556,404, Mar. 18; Serial No. 613,541, published Dec. 25, 1951.
Chemical compositions. West Laboratories, Inc. 556,405, Mar. 18; Serial No. 613,545, published Dec. 25, 1951.
Chemical compositions. West Laboratories, Inc. 556,406, Mar. 18; Serial No. 613,547, published Dec. 25, 1951.
Chemical compounds. Spontane Mfg. Company. 556,221, Mar. 18; Serial No. 591,202, published Nov. 20, 1951.
Chemical preparation. Synthetic & Industrial Finishes Limited. 556,296, Mar. 18; Serial No. 603,210, published Dec. 25, 1951.
Chemical preparations. J. A. Sewell. 556,237, Mar. 18; Serial No. 593,294, published Dec. 25, 1951.
Chemical preparations. Seydel-Woolley & Company. 556,173, Mar. 18; Serial No. 576,661, published Jan. 1, 1952.
Chemical products. Wargöns Aktiebolag. 556,287, Mar. 18; Serial No. 602,351, published Dec. 25, 1951.
Chemically treated blocks. H. D. Conner. 556,183, Mar. 18; Serial No. 567,905, published Dec. 4, 1951.
Chemicals. Alco Oil and Chemical Corp. 556,407, Mar. 18; Serial No. 613,891, published Dec. 25, 1951.
Chemicals and chemical compositions. Monsanto Chemical Company. 556,370, Mar. 18; Serial No. 611,100, published Nov. 20, 1951.
Chemicals and chemical compositions. Monsanto Chemical Company. 556,371, Mar. 18; Serial No. 611,101, published Nov. 13, 1951.
Chemicals and chemical preparations. Heyden Chemical Corporation. 556,284, Mar. 18; Serial No. 601,913, published Nov. 13, 1951.
Chemicals, Organic, inorganic chemicals. Eastman Kodak Company. 556,354, Mar. 18; Serial No. 610,206, published Dec. 25, 1951.
Chlorine, caustic soda, caustic potash, etc. Niagara Alkali Company. 556,401, Mar. 18; Serial No. 613,379, published Dec. 25, 1951.
Colloidal wax and/or colloidal wax-resin sizing and finishing material. Hercules Powder Company. 556,398, Mar. 18; Serial No. 613,129, published Dec. 25, 1951.
Disinfectants, insecticides, fungicides, etc. Cilag Aktiengesellschaft. 556,275, Mar. 18; Serial No. 600,816, published Dec. 25, 1951.
Disinfectants, insecticides, fungicides, etc. Cilag Aktiengesellschaft. 556,276, Mar. 18; Serial No. 600,818, published Dec. 25, 1951.
Economic poisonous composition. Fungitrol Chemicals Incorporated. 556,374, Mar. 18; Serial No. 611,419, published Nov. 20, 1951.
Emulsifying agents and surface active agents. Alrose Chemical Company. 556,307, Mar. 18; Serial No. 605,393, published Dec. 25, 1951.
Enzyme product. Rohm & Haas Company. 292,913, renewed Mar. 29, 1952. O. G. Mar. 18.
Fatty acids. Darling & Company. 556,402, Mar. 18; Serial No. 613,400, published Dec. 25, 1951.
Fire extinguishing compositions. Ansul Chemical Company. 556,255, Mar. 18; Serial No. 596,770, published Nov. 13, 1951.
Fumigant. Chemi-Sol Chemical and Sales Co. 556,222, Mar. 18; Serial No. 591,354, published Nov. 27, 1951.
Hydrocarbons, phenols, organic acids and their derivatives, etc. Allied Chemical & Dye Corporation. 556,219, Mar. 18; Serial No. 591,011, published Nov. 20, 1951.
Insecticide. National Package Drugs, Inc. 556,437, Mar. 18; Serial No. 589,328.
Insecticide, Aerosol. Virginia Smelting Company. 556,347, Mar. 18; Serial No. 609,385, published Nov. 13, 1951.
Liquid for removing paraffin from histological tissue specimens. Technicon Chemical Company, Inc. 556,388, Mar. 18; Serial No. 612,185, published Nov. 27, 1951.
Liquid preparations for application to textiles to render them fire retardant. Scientific Solutions, Inc. 556,392, Mar. 18; Serial No. 612,376, published Nov. 27, 1951.
Liquid sulfur dioxide. Virginia Smelting Company. 556,410, Mar. 18; Serial No. 614,589, published Dec. 25, 1951.
Mite control material. Stauffer Chemical Company. 556,356, Mar. 18; Serial No. 610,344, published Nov. 20, 1951.
Mixture of liquid lanolin alcohols. Robinson-Wagner Co., Inc. 556,403, Mar. 18; Serial No. 613,477, published Dec. 25, 1951.
Mixture of oil and a condensation product of heptaldehyde and aniline. The Naugatuck Chemical Company. 290,030, Dec. 22, 1931. Republished Mar. 18.
Oil and grease products. C. H. Runyon. 556,212, Mar. 18; Serial No. 589,395, published Oct. 2, 1951.
Organic acid. The Pacific Lumber Company. 556,288, Mar. 18; Serial No. 602,518, published Nov. 20, 1951.
Organic acid group. The Pacific Lumber Company. 556,289, Mar. 18; Serial No. 602,519, published Nov. 20, 1951.
Petrolatum, insecticides, fungicides, and herbicides. Standard Oil Company. 556,201, Mar. 18; Serial No. 587,365, published Dec. 4, 1951.
Polymer and copolymer dispersions in an aqueous phase. Alkydol Laboratories, Inc. 556,270, Mar. 18; Serial No. 599,739, published Jan. 1, 1952.
Polyvinyl acetate emulsion. The Special Chemicals Company. 556,293, Mar. 18; Serial No. 603,169, published Nov. 27, 1951.
Preparation having wetting, spreading and sticking properties. Wilson & Toomer Fertilizer Co. 556,262, Mar. 18; Serial No. 597,928, published Nov. 13, 1951.
Ricinoleic acid derivatives and blends. The Baker Castor Oil Company. 556,400, Mar. 18; Serial No. 613,359, published Dec. 25, 1951.
Rodent poisons. Rocon, Inc. 556,341, Mar. 18; Serial No. 609,102, published Nov. 20, 1951.
Sodium. National Distillers Chemical Corporation. 556,320, Mar. 18; Serial No. 607,506, published Nov. 13, 1951.
Sodium salt. The Pacific Lumber Company. 556,290–1, Mar. 18; Serial Nos. 602,520–1, published Nov. 20, 1951.
Solutions used to detect surface flaws. Northrop Aircraft, Inc. 556,278, Mar. 18; Serial No. 601,071, published Jan. 1, 1952.
Surface active agents. Alrose Chemical Company. 556,308, Mar. 18; Serial No. 605,397, published Dec. 25, 1951.
Unrefined zinc laurate. The Naugatuck Chemical Company. 288,670, Nov. 3, 1931. Republished Mar. 18.
Vegetable waxes. Allied Raw Materials Company, Inc. 556,159, Mar. 18; Serial No. 544,023, published Dec. 25, 1951.
Water softening agent. Fulbright Laboratories, Inc. 556,315, Mar. 18; Serial No. 607,012, published Sept. 4, 1951.

CLASS 7

Rope. G. L. Soreghen. 412,669, Mar. 20, 1945. Republished Mar. 18.

Ropes. R. Haggie, Hood & Son, Limited. 289,857, renewed Dec. 8, 1951. O. G. Mar. 18.
Twine. Marshall & Company. 86,422, re-renewed May 7, 1952. O. G. Mar. 18.
Twine and cord. The A. H. Hart Co. 86,221, re-renewed Apr. 23, 1952. O. G. Mar. 18.

CLASS 9

Matches. The Grocers & Producers Co. 294,009, renewed May 10, 1952. O. G. Mar. 18.

CLASS 10

Fertilizer, Lawn. Mock Seed Company. 556,409, Mar. 18; Serial No. 614,563, published Dec. 25, 1951.
Potassium-bearing soil amender. H. E. Fletcher Co. 556,316, Mar. 18; Serial No. 607,077, published Dec. 25, 1951.

CLASS 12

Aluminum products. Childers Manufacturing Co. 556,454, Mar. 18; Serial No. 608,816.
Cement, Acid resistant silicate. The Atlas Mineral Products Company of Pennsylvania. 556,386, Mar. 18; Serial No. 611,996, published Nov. 27, 1951.
Cement paint, Waterproof. The Reardon Company. 292,027, renewed Mar. 1, 1952. O. G. Mar. 18.
Cement, Ready mixed Portland, and aggregates. Kuring & Erickson, Associates. 556,164, Mar. 18; Serial No. 555,608, published May 16, 1950.
Composition of material for wall boards, box-making material and heat-insulating lumber, etc. The Celotex Corporation. 556,165, Mar. 18; Serial No. 555,902, published Dec. 4, 1951.
Construction materials. All-Steel Equipment Inc. 556,167, Mar. 18; Serial No. 558,433, published Nov. 27, 1951.
Flooring, Oak and maple, and interior wood trim. Harris Manufacturing Company. 290,424, renewed Jan. 5, 1952. O. G. Mar. 18.
Garage doors. Overhead retractable. Morrison Steel Products Inc. 556,378, Mar. 18; Serial No. 611,713, published Nov. 27, 1951.
Lime. Longview Lime Works. 279,811, Jan. 27, 1931. Republished Mar. 18.
Lime. Saginaw Lime & Stone Co. 278,618, Dec. 23, 1930. Republished Mar. 18.
Metal channel forms. Jacobson & Company, Inc. 556,198, Mar. 18; Serial No. 586,488, published Nov. 27, 1951.
Metal siding for building construction. Brainerd Aluminum Products, Inc. 556,251, Mar. 18; Serial No. 596,388, published Nov. 27, 1951.
Panels for general construction and fabrication. California Reinforced Plastics Company. 556,247, Mar. 18; Serial No. 596,073, published Nov. 27, 1951.
Plaster patch. The Gambrills Company, Inc. 556,238, Mar. 18; Serial No. 593,342, published Dec. 18, 1951.
Plywood. Douglas Fir Plywood Association. 556,434, Mar. 18; Serial No. 605,849, published Dec. 18, 1951.
Plywood. Spliced wood Corporation. 556,207, Mar. 18; Serial No. 588,115, published Nov. 27, 1951.
Roofing, insulating board, and insulated siding. Globe Roofing Products Co., Inc. 556,224, Mar. 18; Serial No. 591,846, published Dec. 18, 1951.
Shingles and sidings, Asbestos cement. The Paraffine Companies, Inc. 556,269, Mar. 18; Serial No. 599,339, published Nov. 27, 1951.
Stock stalls, brooder houses, farrowing houses, etc. Sears, Roebuck and Co. 556,163, Mar. 18; Serial No. 551,408, published Nov. 27, 1951.
Storm sash. Aluminum Fabricating Company of Pittsburgh. 556,390, Mar. 18; Serial No. 612,234, published Nov. 27, 1951.
Tile, Acoustical. Certain-teed Products Corporation. 556,380, Mar. 18; Serial No. 611,759, published Nov. 27, 1951.
Tile, Asphalt, and cement primer. Hachmeister-Inc. 556,323, Mar. 18; Serial No. 607,898, published Nov. 27, 1951.
Tool joint compound. Thread Compounds Manufacturing Company. 556,226, Mar. 18; Serial No. 591,966, published Nov. 27, 1951.
Window screens. Screens & Fabricated Metals Corp. 556,234, Mar. 18; Serial No. 592,667, published Nov. 27, 1951.

CLASS 13

Bronze, brass, iron, and acid resistant metal valves. Fulflo Specialties Company. 293,384, renewed Apr. 19, 1952. O. G. Mar. 18.
Fire hose racks. Elkhart Brass Manufacturing Company, Inc. 556,156, Mar. 18; Serial No. 539,861, published Dec. 12, 1950. (Consolidated certificate, classes 13 and 32.)
Metal kitchen and bathroom accessories. The Autoyre Company, Incorporated. 556,470, Mar. 18; Serial No. 585,506.
Roof drains. J. A. Zurn Mfg. Co. 556,467, Mar. 18; Serial No. 578,000.
Utility support bar for attachment to bath shower curtain rods. J. Kozil. 556,461, Mar. 18; Serial No. 558,306.
Valves, Gate. The Lunkenheimer Company. 294,266, renewed May 24, 1952. O. G. Mar. 18.

CLASS 14

Alloy steel and corrosion resisting alloy steel in the form of ingots, castings, etc. Armco Steel Corporation. 556,228, Mar. 18; Serial No. 592,183, published Dec. 18, 1951.
Wire. The Webb Wire Works. 83,795, Oct. 10, 1911. Republished Mar. 18.

CLASS 15

Candles, Ornamental. D. and C. Dixon. 556,318, Mar. 18; Serial No. 607,318, published Nov. 13, 1951.
Oil, Borne Scrymser Company. 556,326, Mar. 18; Serial No. 607,977, published Dec. 4, 1951.
Oil, Lubricating. Bodie-Hoover Petroleum Corporation. 556,280, Mar. 18; Serial No. 601,299, published Nov. 13, 1951.
Oil, Lubricating. R. W. Fulton. 556,282, Mar. 18; Serial No. 601,668, published Nov. 13, 1951.
Oil, Lubricating. Sinclair Refining Company. 291,312, renewed Feb. 9, 1952. O. G. Mar. 18.
Oil, Motor, and lubricating greases. Shell Oil Company. 556,299, Mar. 18; Serial No. 603,600, published Nov. 13, 1951.
Oils, Lubricating. F. G. Clark, Inc. 293,881, renewed May 10, 1952. O. G. Mar. 18.
Oils, essences, and greases, Petroleum. Societe Normande de Produits Chimiques. 556,283, Mar. 18; Serial No. 601,759, published Nov. 13, 1951.

CLASS 16

Liquid, semi-liquid, powder, paste, and plastic compositions other than paints. Toch Brothers, Inc. 294,050, renewed May 17, 1952. O. G. Mar. 18.
Paints, enamels, varnishes, etc. Gerstendörfer Bros. 37,945, re-renewed Mar. 11, 1952. O. G. Mar. 18.
Paints, Ready-mixed, paint enamels, lacquers and thinners therefor. Henry Fette & Co. 537,174, Jan. 30, 1951. Canceled Jan. 25, 1952. O. G. Mar. 18.
Paints, varnishes, lacquers, etc. The Sherwin-Williams Company. 289,218, renewed Nov. 24, 1951. O. G. Mar. 18.

CLASS 17

Tobacco, Smoking and chewing, cigars, cigarettes, and snuff. R. J. Reynolds Tobacco Company. 86,452, re-renewed May 7, 1952. O. G. Mar. 18.

CLASS 18

Adrenocorticotrophic hormone. Armour and Company. 556,180, Mar. 18; Serial No. 584,379, published Oct. 9, 1951.
Aluminum hydroxide preparation. Senmer Company. 556,177, Mar. 18; Serial No. 583,173, published Oct. 9, 1951.
Antacid and adsorbent for treatment of gastrointestinal conditions. The Harrower Laboratory, Inc. 556,202, Mar. 18; Serial No. 587,486, published Oct. 30, 1951.
Antibiotic preparation. Chas. Pfizer & Co., Inc. 556,176, Mar. 18; Serial No. 582,321, published Nov. 6, 1951.
Antibiotic preparations. Merck & Co., Inc. 556,416, Mar. 18; Serial No. 617,509, published Nov. 13, 1951.
Antibiotics and chemo-therapeutic agents. American Cyanamid Company. 556,170, Mar. 18; Serial No. 573,861, published Mar. 27, 1951.
Antileprotic preparation. E. R. Squibb & Sons. 556,303, Mar. 18; Serial No. 603,651, published Nov. 13, 1951.
Antiseptic cleansing and deodorizing douche preparations. Fem-Gene Products Co. 556,204, Mar. 18; Serial No. 587,630, published Nov. 27, 1951.
Antiseptic, non-toxic solution. W. & D. Distributors. 556,329, Mar. 18; Serial No. 608,230, published Oct. 9, 1951.
Antispastic preparation. E. R. Squibb & Sons. 556,304, Mar. 18; Serial No. 603,652, published Nov. 13, 1951.
Cardiovascular preparation. The Smith-Dorsey Company. 556,322, Mar. 18; Serial No. 607,767, published Oct. 9, 1951.
Chemical preparation used in the treatment of colds and bronchitis in poultry. G. Cohen. 556,232, Mar. 18; Serial No. 592,477, published Nov. 6, 1951.
Dietary supplement. Wyeth Incorporated. 556,248, Mar. 18; Serial No. 596,142, published Oct. 30, 1951.
Diphenol-containing preparation. The Dow Chemical Company. 556,285, Mar. 18; Serial No. 602,026, published Oct. 9, 1951.
Diuretic. Sharpe & Dohme, Incorporated. 556,344, Mar. 18; Serial No. 609,204, published Oct. 30, 1951.
Estrogenic preparations. E. R. Squibb & Sons. 556,206, Mar. 18; Serial No. 587,831, published Nov. 13, 1951.
Evacuants. American Cyanamid Company. 556,245, Mar. 18; Serial No. 594,427, published Nov. 13, 1951.
Fluid extractum kolae with glucose. E. E. Evans. 556,260, Mar. 18; Serial No. 597,515, published May 1, 1951.
Food supplement. W. A. Griffin. 556,215, Mar. 18; Serial No. 589,783, published Oct. 23, 1951.
General tonic. Tolmie Stock Preparations Co., Inc. 556,439, Mar. 18; Serial No. 593,025.
Germicidal emollient. White Laboratories, Inc. 556,271, Mar. 18; Serial No. 600,365, published Nov. 20, 1951.

Intramuscular injection. G. M. Broemmel. 556,149, Mar. 18; Serial No. 527,114, published Oct. 9, 1951.
Iron, vitamin and liver fraction compound. Ives-Cameron Company, Inc. 556,338, Mar. 18; Serial No. 608,993, published Oct. 30, 1951.
Liniment. J. Skinner. 556,379, Mar. 18; Serial No. 611,726, published Nov. 13, 1951.
Liquid preparation for the treatment of burns. S. B. Leonardi & Co. Inc. 556,330, Mar. 18; Serial No. 608,317, published Oct. 9, 1951.
Medical eye drops. C. C. Marroquin. 556,363, Mar. 18; Serial No. 610,751, published Nov. 13, 1951.
Medical preparation. Physicians and Hospitals Supply Company, Inc. 556,384, Mar. 18; Serial No. 611,965, published Nov. 20, 1951.
Medical preparation. Smith, Kline & French Laboratories. 556,334, Mar. 18; Serial No. 608,721, published Oct. 30, 1951.
Medicinal preparation. Dolcin Corporation. 556,205, Mar. 18; Serial No. 587,716, published Nov. 6, 1951.
Medicinal preparation. L R M Medicine Company. 556,324, Mar. 18; Serial No. 607,899, published Oct. 9, 1951.
Medicinal preparation. S. K. Lowry. 556,186, Mar. 18; Serial No. 570,212, published Nov. 20, 1951.
Medicinal preparation. The Maltine Company. 556,377, Mar. 18; Serial No. 611,611, published Nov. 13, 1951.
Medicinal preparation. R. J. Strasenburgh Company. 556,325, Mar. 18; Serial No. 607,906, published Oct. 9, 1951.
Medicinal preparation. The Upjohn Company. 556,193, Mar. 18; Serial No. 573,063, published Oct. 9, 1951.
Medicine in the form of an alkaline powder. Herndon Drug Company, Inc. 556,258, Mar. 18; Serial No. 597,075, published Oct. 30, 1951.
Nasal drops. The Zodrop Company. 556,197, Mar. 18; Serial No. 586,260, published Nov. 13, 1951.
Olive oil shampoo, essence of peppermint, bay rum west indian, pine tar-shampoo, etc. Bloomingdale Bros., Inc. 298,283, Oct. 18, 1932. Republished Mar. 18.
Pharmaceutical compounds. Usines Chimiques des Laboratoires. 556,267, Mar. 18; Serial No. 599,037, published Nov. 6, 1951.
Pharmaceutical preparation. Ernst Bischoff Company, Inc. 556,319, Mar. 18; Serial No. 607,414, published Oct. 30, 1951.
Pharmaceutical preparation. Charles E. Frosst & Co. 556,223, Mar. 18; Serial No. 591,417, published Nov. 13, 1951.
Preparation for producing muscular relaxation. Winthrop-Stearns Inc. 556,352, Mar. 18; Serial No. 610,038, published Nov. 13, 1951.
Preparation for stimulating or increasing intestinal peristalsis. Hoffmann-La Roche Inc. 293,889, renewed May 10, 1952. O. G. Mar. 18.
Preparation for the treatment of rheumatism, neuralgia, etc. Radway & Co. Inc. 293,408, renewed Apr. 19, 1952. O. G. Mar. 18.
Preparation in tablet form for use as a remedy. A. F. Schuls. 556,214, Mar. 18; Serial No. 589,746, published May 29, 1951.
Preparation used in the manufacture of hormonal parenterals. Organon Inc. 556,328, Mar. 18; Serial No. 608,216, published Oct. 9, 1951.
Scalp ointment. Hair Bon Laboratories, Inc. 556,314, Mar. 18; Serial No. 606,773, published Nov. 20, 1951.
Solution formulated as a prophylaxis to fight athlete's foot. Waverly Petroleum Products Company. 556,335, Mar. 18; Serial No. 608,726, published Oct. 30, 1951.
Spasmolytic drug. Winthrop-Stearns Inc. 556,353, Mar. 18; Serial No. 610,155, published Nov. 13, 1951.
Spirits of camphor U. S. P., spirits of nitre U. S. P., aromatic spirits of ammonia U. S. P., etc. Bloomingdale Bros., Inc. 298,664, Nov. 1, 1932. Republished Mar. 18.
Suppositories. Nadeau Laboratory Limited. 556,286, Mar. 18; Serial No. 602,279, published Oct. 30, 1951.
Tablets for use as a vascular protective and lipotropic agent. Schenley Laboratories, Inc. 556,200, Mar. 18; Serial No. 587,356, published Oct. 30, 1951.
Therapeutic preparations. Ortho Pharmaceutical Corporation. 556,195–6, Mar. 18; Serial Nos. 585,763–4, published Nov. 6, 1951.
Vitamin capsules. Peoples' Laboratory Service, Inc. 556,332, Mar. 18; Serial No. 608,376, published Oct. 9, 1951.
Vitamin concentrates. A. Baber. 556,241, Mar. 18; Serial No. 593,774, published Oct. 9, 1951.
Vitamin D for the fortification of milk. R. H. Douglas. 556,225, Mar. 18; Serial No. 591,896, published Nov. 20, 1951.

CLASS 19

Aeroplane propellers. Koppers Company, Inc. 556,191, Mar. 18; Serial No. 565,035, published Dec. 25, 1951.
Aircraft. Gyrodyne Company of America, Inc. 556,361, Mar. 18; Serial No. 610,621, published Dec. 25, 1951.
Air deflectors for use on automobiles. Peters & Russell, Inc. 556,182, Mar. 18; Serial No. 566,423, published Dec. 11, 1951.
Airplanes and airplane structural parts. Bellanca Aircraft Corporation. 556,250, Mar. 18; Serial No. 596,322, published May 15, 1951.
Automobile springs. United States Spring & Bumper Company. 556,210, Mar. 18; Serial No. 589,285, published Dec. 11, 1951.
Boats. Southwest Manufacturing Company. 556,355, Mar. 18; Serial No. 610,300, published Dec. 25, 1951.
Boats and structural parts thereof, Motor. P. E. Watkins. 556,346, Mar. 18; Serial No. 609,349, published Dec. 11, 1951.
Dolly casters. The Smash-Proof Company. 556,297, Mar. 18; Serial No. 603,295, published Dec. 25, 1951.
Propellers. Naamlooze Vennootschap 's-Hertogenbossche Schroevengieterij M. Lips. 556,273, Mar. 18; Serial No. 600,503, published Dec. 4, 1951.
Trucks, Hand. S. D. Lapham. 556,279, Mar. 18; Serial No. 601,152, published Dec. 25, 1951.
Trucks, Special-bodied automotive, and special bodies therefor. American Truck & Body Company, Inc. 556,243, Mar. 18; Serial No. 594,089, published Dec. 11, 1951.

CLASS 21

Control switches. Kilowattcher Corporation. 556,383, Mar. 18; Serial No. 611,958, published Dec. 18, 1951.
Friction tape and rubber splicing compound and white mason tape. Superior Insulating Tape Company. 330,431, Dec. 3, 1935. Republished Mar. 18.
Replacement parts for passenger automobiles, trucks and buses. Freedco Products, Inc. 556,179, Mar. 18; Serial No. 583,923, published Dec. 18.

CLASS 22

Dolls. Ideal Toy Corporation. 556,415, Mar. 18; Serial No. 617,499, published Dec. 25, 1951.
Toys, Vehicular. Keystone Mfg. Co. 294,146, renewed May 17, 1952. O. G. Mar. 18.

CLASS 23

Machine for automatically replenishing the paper rolls of printing presses. Wood Newspaper Machinery Corporation. 293,238, renewed Apr. 19, 1952. O. G. Mar. 18.
Machines for punching and shearing iron and combined machines for punching and shearing iron. Little Giant Punch & Shear Co. 85,823, re-renewed Mar. 19, 1952. O. G. Mar. 18.
Mechanism for automatically attaching printing plates to the printing cylinders of a printing press. Wood Newspaper Machinery Corporation. 293,237, renewed Apr. 19, 1952. O. G. Mar. 18.
Pistons for internal combustion engines and the like. Perfect Circle Corporation. 556,464, Mar. 18; Serial No. 561,483.
Power-hammers and trip-hammers. Barbour Stockwell Company. 294,165–6, renewed May 17, 1952. O. G. Mar. 18.
Razor blades. Bloomingdale Bros., Inc. 295,542, July 5, 1932. Republished Mar. 18.
Tractor hitches. Calhoun Manufacturing Company. 525,550, May 23, 1950. Canceled Feb. 8, 1952. O. G. Mar. 18.
Tractors, Farm, general purpose tractors, orchard tractors, etc. Oliver Farm Equipment Company. 290,083, renewed Dec. 22, 1951. O. G. Mar. 18.
Wrenches. Walworth Company. 556,292, Mar. 18; Serial No. 602,535, published Apr. 17, 1951.

CLASS 24

Clothes line tightener. B. A. Reemtsma. 556,310, Mar. 18; Serial No. 605,530, published Dec. 25, 1951.

CLASS 25

Exit bolts, panic proof exit locks and panic exit devices. Independent Lock Company. 556,312, Mar. 18; Serial No. 606,222, published Dec. 25, 1951.

CLASS 26

Goggles. Willson Products, Inc. 294,226, renewed May 24, 1952. O. G. Mar. 18.

CLASS 27

Watches, clocks, chronometers, etc. Compagnie Electro-Mecanique. 556,294, Mar. 18; Serial No. 603,183, published Sept. 25, 1951.
Watches, watch cases, and watch movements. The Gruen Watch Company. 408,223, July 25, 1944. Canceled Jan. 18, 1952. O. G. Mar. 18.

CLASS 32

Card filing trays and filing cases therefor. Duro Consolidated, Incorporated. 535,869, Jan. 2, 1951. Canceled Jan. 18, 1952. O. G. Mar. 18.
Display shelves, Metal. Airway Finishing Corporation. 423,685, Nov. 26, 1946. Republished Mar. 18.
Fire hose cabinets. Elkhart Brass Manufacturing Company, Inc. 556,156, Mar. 18; Serial No. 594,531, published Nov. 20, 1951. (Consolidated certificate, Classes 13 and 32.)
Furniture. Memphis Furniture Manufacturing Company. 556,440, Mar. 18; Serial No. 593,232.

CLASS 34

Air circulator. Mimar Products, Inc. 556,265, Mar. 18; Serial No. 598,537, published Jan. 1, 1952.

Blowtorches and firepots. Clayton & Lambert Manufacturing Company. 556,412, Mar. 18; Serial No. 615,626, published Nov. 27, 1951.
Conversion burner units. Clayton & Lambert Manufacturing Company. 556,413, Mar. 18; Serial No. 615,756, published Dec. 4, 1951.
Furnaces, Rapid heating. Ingersoll-Rand Company. 556,317, Mar. 18; Serial No. 607,080, published Nov. 27, 1951.
Heat recovery silencers. The Maxim Silencer Company. 556,158, Mar. 18; Serial No. 541,853, published Jan. 1, 1952.
Heaters, Greenhouse. The Stockport Distributing Company (Mail Order) Limited. 556,411, Mar. 18; Serial No. 614,731, published Jan. 1, 1952.
Portable heat reflecting and fire-resistant shields. Dubuque Awning & Tent Company. 556,237, Mar. 18; Serial No. 597,070, published Jan. 1, 1952.
Radiators, Space heating, and closures therefor. Baseline Mfg. Corp. 556,252, Mar. 18; Serial No. 596,647, published Nov. 27, 1951.
Rubberized or plastic-coated or impregnated fabric to be used for ventilation. E. I. du Pont de Nemours & Company. 556,263, Mar. 18; Serial No. 598,070, published Nov. 27, 1951.
Stove for heating paving materials. Wylie Brothers, Inc. 556,249, Mar. 18; Serial No. 596,251, published Dec. 4, 1951.
Stoves and ranges, Solid fuel cooking and heating. Caloric Stove Corporation. 556,306, Mar. 18; Serial No. 603,984, published Nov. 27, 1951.
Tanks and heaters, Hot water. Continental Water Heater Company, Ltd. 556,157, Mar. 18; Serial No. 539,939, published Dec. 6, 1949.
Urns and parts thereof, Coffee brewing. Star Metal Manufacturing Co., Inc. 556,327, Mar. 18; Serial No. 608,048, published Nov. 27, 1951.

CLASS 36

Phonograph records, Grooved. L. E. Schwartz. 556,184, Mar. 18; Serial No. 568,755, published Dec. 25, 1951.
Phonograph records, Mechanically grooved. Telefunken Försäljningsaktiebolag. 556,259, Mar. 18; Serial No. 597,177, published Dec. 25, 1951.

CLASS 37

Blank checks. Corn Exchange National Bank and Trust Company. 289,749, Dec. 1, 1931. Corrected. O. G. Mar. 18.
Bristol board and cover paper. Parsons Paper Co. 84,404, re-renewed Dec. 12, 1951. O. G. Mar. 18.
Crayons, chalks, pencil-leads, etc. A. W. Faber. 86,522, re-renewed May 14, 1952. O. G. Mar. 18.
Loose leaf binders. Federal Loose Leaf Corp. 556,450, Mar. 18; Serial No. 603,881.
Paper, Printing. Columbia River Paper Mills. 556,471, Mar. 18; Serial No. 586,683.
Paper tablets and loose writing paper. Western Tablet & Stationery Corporation. 556,148, Mar. 18; Serial No. 526,161, published Jan. 1, 1952.
Paper, Writing and typewriter. Valley Paper Company. 556,150, Mar. 18; Serial No. 527,525, published Jan. 1, 1952.
Papers, Wrapping. Schorsch & Co., Inc. 344,940, Apr. 6, 1937. Canceled Jan. 25, 1952. O. G. Mar. 18.
Pencil-holders, lead-pencils, screw-pencils, etc. A. W. Faber. 86,523, re-renewed May 14, 1952. O. G. Mar. 18.
Pencils, Wood-cased lead. Blaisdell Pencil Company. 544,423, June 26, 1951. Canceled Jan. 25, 1952. O. G. Mar. 18.
Tracing cloth. The Winterbottom Book Cloth Company Limited. 556,447, Mar. 18; Serial No. 602,589.
Wall-papers. F. C. Doodeheefver. 556,462, Mar. 18; Serial No. 559,010.

CLASS 38

Charts and compilations thereof, Business history. Investographs. 556,382, Mar. 18; Serial No. 611,900, published Dec. 11, 1951.
Magazines or trade journals, daily construction reports, etc. F. W. Dodge Corporation. 289,435, renewed Nov. 24, 1951. O. G. Mar. 18.
Pamphlets or magazines. C. G. Conn, Ltd. 293,649, renewed May 3, 1952. O. G. Mar. 18.
Publication, Monthly. The Society for the Advancement of Management, Inc. 556,261, Mar. 18; Serial No. 597,847, published Dec. 18, 1951.
Section or column appearing in a newspaper or periodical. New York World-Telegram Corporation. 292,817, renewed Mar. 29, 1952. O. G. Mar. 18.
Title of a column. The Sun Printing & Publishing Association. 289,942, renewed Dec. 15, 1951. O. G. Mar. 18.

CLASS 39

Blouses. Peck & Peck. 513,419, Aug. 9, 1949. Canceled Jan. 18, 1952. O. G. Mar. 18.
Clothes, Men's and boys' work. Henry I. Siegel Co, Inc. 556,311, Mar. 18; Serial No. 605,536, published Dec. 25, 1951.
Clothing. Levinsohn Bros. & Co. Inc. 424,869, Oct. 29, 1946. Republished Mar. 18.
Clothing, Boys'. Oklahoma Clothing Manufacturers. 556,339, Mar. 18; Serial No. 609,044, published Dec. 25, 1951.
Clothing, Children's. Kingston Manufacturing Company. 556,337, Mar. 18; Serial No. 608,935, published Dec. 25, 1951.
Clothing, Men's. Joseph H. Cohen & Sons, Inc. 556,372, Mar. 18; Serial No. 611,260, published Dec. 25, 1951.
Clothing, Men's. Eagle Clothes, Inc. 556,381, Mar. 18; Serial No. 611,777, published Dec. 25, 1951.
Clothing, Men's. D. T. Langrock. 556,160, Mar. 18; Serial No. 548,596, published Dec. 25, 1951.
Coats, suits, jackets, etc., Men's and boys'. J. & J. Cromble, Limited. 556,209, Mar. 18; Serial No. 588,745, published Oct. 30, 1951.
Coats, vests, pants, etc., Men's. Weber and Heilbroner, Inc. 556,357, Mar. 18; Serial No. 610,348, published Dec. 25, 1951.
Dungarees. W. E. Stephens Mfg. Co., Inc. 556,396, Mar. 18; Serial No. 612,935, published Dec. 25, 1951.
Gloves, Fabric work. Good Luck Glove Company. 556,152, Mar. 18; Serial No. 528,920, published Dec. 25, 1951.
Gloves, Work. North Star Manufacturing Co. 444,671, Mar. 18; Serial No. 485,513, published Jan. 27, 1948.
Gloves, Workingmen's. Wells Lamont Corporation. 556,154, Mar. 18; Serial No. 535,914, published Dec. 18, 1951.
Hats, Women's and misses'. Bloomingdale Bros., Inc. 298,029, Oct. 11, 1932. Republished Mar. 18.
Hosiery. Adams-Millis Corporation. 556,387, Mar. 18; Serial No. 612,148, published Dec. 18, 1951.
Hosiery. Dura-Tred Hosiery Mills Company, Inc. 556,155, Mar. 18; Serial No. 539,139, published Dec. 18, 1951.
Hosiery. Melville Shoe Corporation. 292,410, renewed Mar. 15, 1952. O. G. Mar. 18.
Hosiery. Rockford Mitten & Hosiery Company. 556,161, Mar. 18; Serial No. 548,847, published Dec. 18, 1951.
Hosiery, Ladies'. M. Gordon Hosiery Mills, Inc. 556,187, Mar. 18; Serial No. 570,701, published Dec. 11, 1951.
Hosiery, Ladies'. Reamstown Hosiery Mills, Inc. 556,175, Mar. 18; Serial No. 578,625, published June 26, 1951.
Hosiery, Ladies'. Valcort Hosiery Corporation. 556,389, Mar. 18; Serial No. 612,188, published Dec. 18, 1951.
Hosiery, Women's full fashioned. Berkshire Knitting Mills. 556,181, Mar. 18; Serial No. 584,850, published Dec. 25, 1951.
Jackets, Men's, boys' and ladies'. The Shirtcraft Company, Inc. 556,229, Mar. 18; Serial No. 592,225, published Dec. 25, 1951.
Jackets, overcoats, topcoats, etc., Men's and boys'. Prentis Clothes Corp. 556,213, Mar. 18; Serial No. 589,473, published Aug. 15, 1950.
Jackets, Sport, and topcoats. Currick & Leiken Co., Inc. 556,216, Mar. 18; Serial No. 589,535, published Dec. 25, 1951.
Knitted and woven underwear, swim trunks, sweaters, etc., Men's, women's, boys' and children's. Utica Knitting Company. 556,178, Mar. 18; Serial No. 583,897, published Dec. 25, 1951.
Neckties. Botany Worsted Mills. 294,105, renewed May 17, 1952. O. G. Mar. 18.
Neckties. C. A. Limbach. 381,787, Oct. 8, 1940. Republished Mar. 18.
Outer clothing for girls, subteens, and teens. Pledgewear, Incorporated. 556,277, Mar. 18; Serial No. 600,913, published Dec. 11, 1951.
Pajamas. F. Jacobson & Sons, Inc. 556,331, Mar. 18; Serial No. 608,357, published Dec. 25, 1951.
Panties, Children's. Capitol Undergarment Co., Inc. 556,340, Mar. 18; Serial No. 609,072, published Dec. 25, 1951.
Pants, Football, football and baseball stirrup-type hose, football jerseys, etc. Empire Sporting Goods Manufacturing Co. Inc. 556,336, Mar. 18; Serial No. 608,926, published Dec. 25, 1951.
Pants, Work, work trousers, work shirts, etc. Brooks-Weisberg Co. 556,345, Mar. 18; Serial No. 609,279, published Nov. 6, 1951.
Robes, Lounging. Botany Worsted Mills. 391,808, Nov. 25, 1941. Republished Mar. 18.
Shirts, Dress and negligee. The May Department Stores Company. 287,847, Oct. 13, 1931. Republished Mar. 18.
Shoes, boots, etc., Women's and misses'. Wohl Shoe Company. 293,902, renewed May 10, 1952. O. G. Mar. 18.
Slippers. John B. Davidson Woolen Mills, Inc. 556,253, Mar. 18; Serial No. 596,656, published Dec. 25, 1951.
Suits, trousers, jackets, etc., Men's. United Surplus Associates. 556,342, Mar. 18; Serial No. 609,110, published Dec. 25, 1951.
Sweaters, jackets, vests, etc., Children's. Cloverdale Knitwear Corporation. 556,321, Mar. 18; Serial No. 607,619, published Dec. 25, 1951.
Underwear. Van Raalte Company, Inc. 294,110, renewed May 17, 1952. O. G. Mar. 18.
Underwear and knitted polo and T-shirts, Men's, women's and children's. Natira Sales Company. 556,192, Mar. 18; Serial No. 566,093, published Dec. 25, 1951.
Uniforms. I. Brooks. 556,365, Mar. 18; Serial No. 610,822, published Dec. 25, 1951.

Uniforms for nurses, technicians, etc. Duti-Duds, Inc. 556,333, Mar. 18; Serial No. 608,413, published Dec. 25, 1951.
Vests, Unfinished knitted, step-ins, bloomers, etc. Schreiber, Brantman & Wyner, Inc. 195,374, Feb. 24, 1925. Republished Mar. 18.
Wearing apparel. The Crown Overall Manufacturing Company. 556,231, Mar. 18; Serial No. 592,360, published Dec. 25, 1951.

CLASS 40

Plastic and cotton cording. Metropolitan Bias Binding Co. 539,735, Mar. 20, 1951. Canceled Jan. 18, 1952. O. G. Mar. 18.

CLASS 42

Blankets. W. S. Libbey Company. 290,557, renewed Jan. 12, 1952. O. G. Mar. 18.
Fabric. Hollywood Textile Converters. 556,369, Mar. 18; Serial No. 610,905, published Jan. 1, 1952.
Fabric in the piece, Silk and wool knitted. I. A. Wyner & Co., Inc. 210,826, Mar. 23, 1926. Republished Mar. 18.
Fabrics. Glen Raven Cotton Mills, Inc. 556,351, Mar. 18; Serial No. 609,796, published Jan. 1, 1952.
Fabrics. Sheraton Mills, Inc. 556,366, Mar. 18; Serial No. 610,867, published Jan. 1, 1952.
Fabrics, Curtain and upholstery. Knoll Associates, Inc. 556,244, Mar. 18; Serial No. 594,384, published Dec. 25, 1951.
Fabrics in the piece. J. Davis. 556,364, Mar. 18; Serial No. 610,781, published Jan. 1, 1952.
Fabrics-in-the-piece. Grandma Moses Properties, Inc. 556,305, Mar. 18; Serial No. 603,923, published Dec. 25, 1951.
Fabrics in the piece, Woven elastic. Rayflex Fabrics, Inc. 556,414, Mar. 18; Serial No. 616,967, published Jan. 1, 1952.
Fabrics, Textile. The Vadium Corporation. 351,291, Nov. 27, 1951. New certificate. O. G. Mar. 18.
Fabrics, Waterproof. Whitewater Raincoat Company. 556,349, Mar. 18; Serial No. 609,618, published Jan. 1, 1952.
Fabrics, Wool. Miron Mills, Inc. 556,358, Mar. 18; Serial No. 610,448, published Jan. 1, 1952.
Knitted goods. Schreiber, Brantman & Wyner, Inc. 191,157, Nov. 4, 1924. Republished Mar. 18.
Piece goods. I. A. Wyner & Co., Inc. 204,482, Oct. 20, 1925. Republished Mar. 18.
Piece goods. I. A. Wyner & Co., Inc. 402,726, Aug. 10, 1943. Republished Mar. 18.
Piece goods, Gingham. Dan River Mills, Incorporated. 556,375, Mar. 18; Serial No. 611,563, published Jan. 1, 1952.
Piece goods, Knitted. I. A. Wyner & Co., Inc. 217,651, Sept. 7, 1926. Republished Mar. 18.
Piece good, Knitted. I. A. Wyner & Co., Inc. 218,273, Sept. 21, 1926. Republished Mar. 18.
Piece goods, Knitted. I. A. & Wyner Co., Inc. 221,063, Nov. 23, 1926. Republished Mar. 18.
Piece goods, Linen. Defense Committee for the Flax and Linen Industry in Belgium. 556,433, Mar. 18; Serial No. 601,426, published Jan. 1, 1952.
Piece goods, Linen. Robert McBratney & Company, Incorporated. 556,360, Mar. 18; Serial No. 610,570, published Jan. 1, 1952.
Piece goods, Woolen. Deering, Milliken & Co., Inc. 289,384, renewed Nov. 24, 1951. O. G. Mar. 18.
Piece goods, Woolen. Forstmann & Huffmann Company. 289,564–5, renewed Dec. 1, 1951. O. G. Mar. 18.
Piece goods, Woolen. Forstmann & Huffmann Company. 290,035, renewed Dec. 22, 1951. O. G. Mar. 18.
Rugs, Wool hooked. The Associated Merchandising Corporation. 556,359, Mar. 18; Serial No. 610,488, published Jan. 1, 1952.
Sheetings, shirtings, denims, etc. Pepperell Manufacturing Company. 290,560, renewed Jan. 12, 1952. O. G. Mar. 18.
Woolen, silk, cotton, rayon and/or combinations thereof in the piece. N. Flugelman & Co., Inc. 297,882, Oct. 4, 1932. Republished Mar. 18.

CLASS 44

Corn, callous, and bunion pads, corn and bunion shields, etc. The Scholl Mfg. Co., Inc. 556,211, Mar. 18; Serial No. 589,338, published Dec. 18, 1951.
Electrical permanent waving heaters; electrical hair waving apparatus. The Realistic Permanent Wave Machine Company. 294,060, renewed May 17, 1952. O. G. Mar. 18.
Protective equipment. Chicago Eye Shield Company. 556,172, Mar. 18; Serial No. 576,628, published Nov. 20, 1951.
Surgical splints. L. J. Larson. 556,298, Mar. 18; Serial No. 603,302, published Dec. 18, 1951.
Surgical sterilizers and parts thereof. Wilmot Castle Company. 556,203, Mar. 18; Serial No. 587,574, published Dec. 18, 1951.
Surgical sterilizers and parts thereof. Wilmot Castle Company. 556,208, Mar. 18; Serial No. 588,422, published Dec. 18, 1951.

CLASS 45

Apple cider. C. W. Haines. 556,455, Mar. 18; Serial No. 609,924.
Beverages, Maltless. Pal, Inc. 556,460, Mar. 18; Serial No. 532,630.
Beverages, Maltless nonalcoholic carbonated. Witwer Grocer Company. 382,561, Oct. 29, 1940. Canceled Jan. 25, 1952. O. G. Mar. 18.
Beverages, Non-alcoholic, maltless. Du Brock, Incorporated. 556,468, Mar. 18; Serial No. 582,606.
Nonalcoholic maltless beverage, and syrups and extracts for preparing the same. Mission Dry Corporation. 360,613, Sept. 20, 1938. Canceled Feb. 8, 1952. O. G. Mar. 18.

CLASS 46

Buttermilk. G. P. Gundlach & Co., Inc. 556,457, Mar. 18; Serial No. 613,636.
Candies. Martha Washington Candies Co. 566,441, Mar. 18; Serial No. 593,760.
Candy. The Folly Town Company. 556,395, Mar. 18; Serial No. 612,799, published Dec. 4, 1951.
Candy. Kayantee Candy Company. 433,896, Nov. 4, 1947. Canceled Feb. 8, 1952. O. G. Mar. 18.
Candy bar, Coconut. Walter Williams Candy Co. 556,189, Mar. 18; Serial No. 563,560, published Dec. 25, 1951.
Canned fish. Mondial Company, Inc. 556,281, Mar. 18; Serial No. 601,366, published Jan. 1, 1952.
Canned sardines and canned shrimps. B. O. Bowers. 122,634, Sept. 3, 1918. Canceled Feb. 1, 1952. O. G. Mar. 18.
Canned vegetables and canned tomato juice. Hungerford Packing Co., Inc. 556,268, Mar. 18; Serial No. 599,047, published Jan. 1, 1952.
Canned vegetables, canned fruits, canned fruit juice, etc. Associated Grocers' Company of St. Louis, Missouri. 556,385, Mar. 18; Serial No. 611,995, published Dec. 4, 1951.
Cheese. Gerber & Co., Inc. 556,474, Mar. 18; Serial No. 618,034.
Cheese. J. Rosenblum. 349,891, Sept. 14, 1937. Canceled Jan. 18, 1952. O. G. Mar. 18.
Cheese and butter. S. Knudsen. 556,456, Mar. 18; Serial No. 610,323.
Chewing gum. Topps Chewing Gum, Incorporated. 556,153, Mar. 18; Serial No. 534,839, published Nov. 7, 1950.
Chicken, Boned, and boned turkey. C. A. Swanson & Sons. 556,151, Mar. 18; Serial No. 527,994, published Sept. 19, 1950.
Chicken noodles, sauce. Broome's, Incorporated. 358,764, July 20, 1938. Canceled Jan. 18, 1952. O. G. Mar. 18.
Coffee and tea. Edmands Coffee Company. 289,197, renewed Nov. 24, 1951. O. G. Mar. 18.
Cream filling for cakes. C. and B. Y. Michaelis and A. Lasser. 556,438, Mar. 18; Serial No. 591,634.
Dates, Fresh. Associated Date Growers & Packers. 556,472, Mar. 18; Serial No. 587,701.
Eggs, Fresh. C. M. Kircher. 556,166, Mar. 18; Serial No. 557,935, published Sept. 27, 1949.
Flour, Soy. A. E. Staley Manufacturing Company. 556,459, Mar. 18; Serial No. 530,130.
Flour, Wheat. Duluth-Superior Milling Company. 89,017, Nov. 5, 1912. Republished Mar. 18.
Flour, Wheat. Garland Milling Company. 374,476, Jan. 9, 1940. Republished Mar. 18.
Fruit, Dried, California Packing Corporation. 556,246, Mar. 18; Serial No. 595,533, published Dec. 25, 1951.
Fruits, Fresh citrus. Mission Citrus Association. 556,168, Mar. 18; Serial No. 559,527, published Dec. 4, 1951.
Fruits, Fresh citrus, fresh deciduous fruits, fresh vegetables, etc. Palm Terrace Fruit Company. 556,453, Mar. 18; Serial No. 608,564.
Fruits, Sweet pickled, fruit jellies, etc. W. B. Rayle. 354,238, Feb. 8, 1938. Canceled Jan. 25, 1952. O. G. Mar. 18.
Grapes, Fresh. T. Apkarian & Sons. 556,242, Mar. 18; Serial No. 593,851, published Dec. 4.
Ham, Smoked. Hunter Packing Company. 556,254, Mar. 18; Serial No. 596,725, published Oct. 30, 1951.
Liquid flavoring. J. Hungerford Smith Co. 556,436, Mar. 18; Serial No. 588,762.
Macaroni dinner. Robillo & Cuneo. 361,622, Oct. 25, 1938. Republished Mar. 18.
Macaroni, noodles, and spaghetti. Robillo & Cuneo. 332,539, Feb. 18, 1936. Republished Mar. 18.
Melons, Fresh. Los Banos Produce Distributors. 556,448, Mar. 18; Serial No. 602,903.
Mixture of bird seed. W. Luikens. 556,174, Mar. 18; Serial No. 576,922, published Dec. 25, 1951.
Palm kernel or cocoanut oil, etc., Pressed and hydrogenized. The Capital City Products Company. 289,596, renewed Dec. 1, 1951. O. G. Mar. 18.
Peas, Mixed dried, macaroni, noodles, etc. Robillo & Cuneo. 355,166, Mar. 8, 1938. Republished Mar. 18.
Pickles. The Manhattan Pickle Co., Inc. 556,435, Mar. 18; Serial No. 588,305.
Pickles, Bottled dill. Pikle-Rite Company, Inc. 556,458, Mar. 18; Serial No. 616,242.
Pork roll. The Taylor Provision Company. 86,177, renewed Apr. 16, 1952. O. G. Mar. 18.

Preparation consisting of dehydrated egg albumen and egg yolk and heat treated corn flour. Tenderet Sales Company. 556,162, Mar. 18; Serial No. 550,859, published Dec. 18, 1951.
Rice. Kaplan Rice Mill, Inc. 342,963, Feb. 2, 1937. Canceled Feb. 8, 1952. O. G. Mar. 18.
Rolls, cinnamon cake, sticky buns, etc. Tasty Baking Company. 289,747, renewed Dec. 1, 1951. O. G. Mar. 18.
Salt. International Salt Company. 556,443, Mar. 18; Serial No. 597,859.
Seafood, Live. Saltwater Farm Incorporated. 556,452, Mar. 18; Serial No. 605,810.
Syrup. Corn Products Refining Company. 556,463, Mar. 18; Serial No. 560,190.
Tomatoes, Fresh. J. P. Hobbs. 556,394, Mar. 18; Serial No. 612,691, published Dec. 4, 1951.
Vegetables, Fresh. King Maljan & Company. 556,343, Mar. 18; Serial No. 609,134, published Dec. 25, 1951.
Yeast, Inactive dry. Red Star Yeast and Products Company. 556,391, Mar. 18; Serial No. 612,273, published Dec. 4, 1951.

CLASS 47

Wine vermouth. G. & L. Flli Cora. 290,132, renewed Dec. 22, 1951. O. G. Mar. 18.
Wines, appetizing wines, sparkling wines. G. & L. Flli Cora. 290,134, renewed Dec. 22, 1951. O. G. Mar. 18.

CLASS 48

Ale. W. F. Rothe. 556,469, Mar. 18; Serial No. 584,549.

CLASS 49

Alcoholic beverages. The Crosse & Blackwell Company. 556,444, Mar. 18; Serial No. 598,785.
Bitters, cordials, liquors, etc. G. & L. Flli Cora. 290,133, renewed Dec. 22, 1951. O. G. Mar. 18.

CLASS 51

Anti-perspirant cream. Barbara Gould, Inc. 556,171, Mar. 18; Serial No. 575,051, published Nov. 27, 1951.
Artificial and synthetic perfumery compositions; natural and synthetic essential oils, etc. Firmenich & Co. 556,239, Mar. 18; Serial No. 593,665, published Nov. 20, 1951.
Bath salts, cologne, cake make-up, etc. Universal Laboratories, Inc. 556,169, Mar. 18; Serial No. 560,787, published Apr. 18, 1950.
Eau de cologne. J. & E. Atkinson, Limited. 556,233, Mar. 18; Serial No. 592,597, published Nov. 13, 1951.
Insect and vermin exterminator, disinfectant, and talcum powder. Flash Chemical Co. 84,088, re-renewed Nov. 7, 1951. O. G. Mar. 18.
Lotion, Cream, bath oil, body powders, etc. Avon Products, Inc. 556,350, Mar. 18; Serial No. 609,775, published Nov. 13, 1951.
Olive oil shampoo, essence of peppermint, bay rum west indian, pine tar-shampoo, etc. Bloomingdale Bros., Inc. 298,283, Oct. 18, 1932. Republished Mar. 18.
Perfume, toilet water, sachet, etc. Lentheric, Incorporated. 291,936, renewed Feb. 23, 1952. O. G. Mar. 18.
Perfumed oils. Newport Chemical Works, Incorporated. 291,305, Feb. 9, 1932. Republished Mar. 18.
Perfumes and toilet preparations. Palmers Limited. 556,188, Mar. 18; Serial No. 572,994, published Apr. 10, 1951. (Consolidated certificate, Classes 51 and 52.)
Perfumes, toilet water, cold cream, etc. The Andrew Jergens Co. 85,133, re-renewed Jan. 30, 1952. O. G. Mar. 18.
Shaving cream. Dyna-Shave, Inc. 556,309, Mar. 18; Serial No. 605,471, published Nov. 27, 1951.
Skin protective cream. The Janalyn Laboratories, Inc. 556,295, Mar. 18; Serial No. 603,194, published Nov. 20, 1951.
Toilet powders. A. Bourjois & Co. Inc. 999,940, Sept. 29, 1914. Republished Mar. 18.

CLASS 52

Cleaning fluid. Kaufmann Department Stores, Inc. 289,657, Dec. 1, 1931. Republished Mar. 18.
Cleanser. W. E. McCracken. 556,473, Mar. 18; Serial No. 598,193.
Detergent, Synthetic liquid. Grace-Lee Products Inc. 556,274, Mar. 18; Serial No. 600,667, published Dec. 25, 1951.
Dry cleaning solvents and motor and gear flushing compounds. Richfield Oil Corporation. 556,445, Mar. 18; Serial No. 600,698.
Fluid ink eradicator. Sanford Ink Company. 556,199, Mar. 18; Serial No. 586,822, published July 17, 1951.
Olive oil shampoo, essence of peppermint, bay rum west indian, pine tar-shampoo, etc. Bloomingdale Bros., Inc. 298,283, Oct. 18, 1932. Republished Mar. 18.
Shampoo. Rapidol Distributing Corporation. 556,272, Mar. 18; Serial No. 600,445, published Dec. 25, 1951.
Shampoo. Schieffelin & Company. 292,268, renewed Mar. 8, 1952. O. G. Mar. 18.
Shampoo, Hair. Lo-Calory Food Corporation. 534,161, Nov. 28, 1950. Canceled Jan. 25, 1952. O. G. Mar. 18.
Shampoo, Soapless. W-B Chemical Company, Inc. 556,190, Mar. 18; Serial No. 563,646, published Nov. 27, 1951.
Soap, Hand, toilet soap, and bath soap. Palmers Limited. 556,188, Mar. 18; Serial No. 601,521, published May 8, 1951. (Consolidated certificate, Classes 51 and 52.)
Soap, Toilet. The Andrew Jergens Co. 85,132, re-renewed Jan. 30, 1952. O. G. Mar. 18.
Soap, Toilet. Colgate-Palmolive-Peet Company. 556,367–8, Mar. 18; Serial Nos. 610,889–90, published Nov. 20, 1951.
Solution for cleaning needles. J. H. Quinn. 556,348, Mar. 18; Serial No. 609,417, published Dec. 25, 1951.

CLASS 100

Abstracting of records pertaining to titles to real estate and other similar documents. Western Consolidated Abstract Co. 556,476, Mar. 18; Serial No. 587,846.
Engineering services. American Hydrotherm Corp. 556,424, Mar. 18; Serial No. 595,701, published Jan. 1, 1952.
Organizing of chapters in a National collegiate fraternity and maintaining membership therein. The Chi Phi Fraternity. 556,431, Mar. 18; Serial No. 596,262, published Jan. 1, 1952.

CLASS 101

Advertising of sponsor's goods and services. International Broadcasting Corporation. 556,430, Mar. 18; Serial No. 608,607, published Jan. 1, 1952.
Advertising services. Civic Survey by Thelma Padgett, Inc. 556,475, Mar. 18; Serial No. 576,571.
Advertising services. Friendly Neighbor Service, Inc. 556,428, Mar. 18; Serial No. 604,362, published Jan. 1, 1952.
Advertising the goods of others. Storecast Corporation of America. 556,426, Mar. 18; Serial No. 599,298, published Jan. 1, 1952.
Investigative and information services. Association of Better Business Bureaus, Inc. 556,432, Mar. 18; Serial No. 598,411, published Jan. 1, 1952.
Promotional advertising services. Treasure Island, Inc. 556,423, Mar. 18; Serial No. 584,171, published Jan. 1, 1952.
Telephone answering service to dentists. S. S. Schiller. 556,422, Mar. 18; Serial No. 568,538, published Jan. 1, 1952.

CLASS 102

Investment banking. American Securities Corporation. 556,425, Mar. 18; Serial No. 597,375, published Jan. 1, 1952.
Services as insurance agent. Kinkade & Company Inc. 556,429, Mar. 18; Serial No. 608,208, published Jan. 1, 1952.

CLASS 103

Fabrication of concrete floors. General Floor Company Incorporated. 556,421, Mar. 18; Serial No. 562,356, published Jan. 1, 1952.
Installation, calibration, adjustment, etc., of measurement and control equipment. Westcott & Greis, Inc. 556,418, Mar. 18; Serial No. 541,619, published Jan. 1, 1952.
Installation, calibration, adjustment, etc., of measurement and control equipment. Westcott & Greis, Inc. 556,419, Mar. 18; Serial No. 541,620, published Dec. 25, 1951.
Maintenance of tools for applying industrial pressure clamps. Band-It Company. 556,420, Mar. 18; Serial No. 552,414, published Jan. 1, 1952.

CLASS 105

Railroad passenger and freight transportation service. Minneapolis, St. Paul & Sault Ste. Marie Railroad Company. 556,427, Mar. 18; Serial No. 600,345, published Jan. 1, 1952.
Transportation by aircraft of persons, property and mail. Southwest Airways Company. 556,477, Mar. 18; Serial No. 591,702.

CLASS 107

Entertainment services. E. H. Ford. 556,417, Mar. 18; Serial No. 537,443, published Jan. 1, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Betz, Paul L., assignor to Consolidated Gas Electric Light and Power Company of Baltimore, Baltimore, Md. Electrical energizing means for limit control devices and the like. Re. 23,470, Mar. 18.

Coad, Frederic J., deceased, Des Moines, Iowa, by Swift & Company, Chicago, Ill., assignee. Skinning machine. Re. 23,471, Mar. 18.

Consolidated Gas Electric Light and Power Company of Baltimore, assignee: *See*—
Betz, Paul L.

Kindlund, Cleatus S.: *See*—
Kindlund, Victor M. and C. S.

Kindlund, Victor M. and C. S., Englewood, N. J. Device for embracingly holding gloves. Re. 23,472, Mar. 18.

Radio Corporation of America: *See*—
Sperber, Edward J.

Randol, Glenn T., Mountain Lake Park, Md. Shift-lever controlled automotive clutch. Re. 23,473, Mar. 18.

Sperber, Edward J., Philadelphia, Pa., assignor to Radio Corporation of America. Radio receiver sequence tuner. Re. 23,474, Mar. 18.

Swift & Company, assignee: *See*—
Coad, Frederic J.

LIST OF DESIGN PATENTEES

Annis, Sam, New York, N. Y. Bathing suit lining. 166,167, Mar. 18.

Balyozian, John C., Arlington, Mass. Electric lamp or similar article. 166,168, Mar. 18.

Baumgardner, Versal F., Celina, Ohio. Pavement repairing machine. 166,169, Mar. 18.

Bausch & Lomb Optical Company, assignee: *See*—
Blum, Albert H.
Gay, Fred G., Jr., and McCulloch.
Stegeman, Raymond F. E., and Gay.

Berdan, George D., assignee: *See*—
Johns, Dorothy.

Birtman Electric Company, assignee: *See*—
Karstadt, Clarence.

Blum, Albert H., Irondequoit, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Multilens magnifier. 166,170, Mar. 18.

Bochner, Simon, Yonkers, assignor to Covington Fabrics Corporation, New York, N. Y. Fabric or the like. 166,171, Mar. 18.

Bureau, Benoni, Elmhurst, N. Y. Knife or similar article. 166,172, Mar. 18.

Burrows, Lewis M., North Quincy, Mass., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Valve or similar article. 166,173, Mar. 18.

Clark, Edith J., assignee: *See*—
Salmon, Berle B.

Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.

Covington Fabrics Corporation, assignee: *See*—
Bochner, Simon.

Crawford, Wayland H., San Gabriel, Calif., assignor to Modern Village Stores, Inc. Check stand or similar article. 166,174, Mar. 18.

Dannecker, Rudolph, New York, N. Y. Embroidered fabric. 166,175, Mar. 18.

Dannecker, Rudolph, New York, N. Y. Embroidered fabric. 166,176, Mar. 18.

De Sherbinin, William N., Brookfield, Conn. Television lamp. 166,177, Mar. 18.

D'Orsay, Marcelle, New York, N. Y. Combined cigarette and cigarette lighter case. 166,178, Mar. 18.

Dowd, John T., Aldan, Pa. Goblet. 166,179, Mar. 18.

Foster Grant Co., Inc., assignee: *See*—
Foster, Joseph C.

Foster, Joseph C., assignor to Foster Grant Co., Inc., Leominster, Mass. Display stand for sunglasses or the like. 166,180, Mar. 18.

Fuston, Samuel F., Jr.: *See*—
McNally, John C., and Fuston.

Gay, Fred G., Jr.: *See*—
Stegeman, Raymond F. E., and Gay.

Gay, Fred G., Jr., Greece, and D. J. McCulloch, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Eye protector. 166,181, Mar. 18.

Goettl, Adam D., Phoenix, Ariz. Evaporative cooler. 166,182, Mar. 18.

Goldstein, Morris E., Denver, Colo. Wall plaque. 166,183, Mar. 18.

Goldstein, Morris E., Denver, Colo. Wall plaque. 166,184, Mar. 18.

Goldstein, Morris E., Denver, Colo. Wall plaque. 166,185, Mar. 18.

Granat, Joseph, San Francisco, Calif. Watchcase. 166,186, Mar. 18.

Guttman, Edward, New York, N. Y. Knitted dress. 166,187, Mar. 18.

Guttman, Edward, New York, N. Y. Knitted dress. 166,188, Mar. 18.

Guttman, Edward, New York, N. Y. Knitted dress. 166,189, Mar. 18.

Guttman, Edward, New York, N. Y. Knitted dress. 166,190, Mar. 18.

Hadges, D. G., Rosemead, Los Angeles County, Calif. Trailer. 166,191, Mar. 18.

Hafner Associates, Inc., assignee: *See*—
Petracek, Vaclav.

Hamilton, Bertis F., Columbus, Ind. Chair. 166,192, Mar. 18.

Hartup, Frederick W., Puente, Calif., assignor to Modern Village Stores, Inc. Check stand or similar article. 166,193, Mar. 18.

Howard, Jules, San Jose, Calif. Box for wrist watch and parts therefor. 166,194, Mar. 18.

Howard, Jules, San Jose, Calif. Box for wrist watch and parts therefor. 166,195, Mar. 18.

Johns, Dorothy, assignor of one-half to G. D. Berdan, Fort Worth, Tex. Earring holder or similar article. 166,196, Mar. 18.

Judson, Nathaniel, New York, assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y. Lady's stocking. 166,197, Mar. 18.

Judson, Nathaniel, New York, assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y. Lady's stocking. 166,198, Mar. 18.

Karstadt, Clarence, Glen Ellyn, Ill., assignor to Birtman Electric Company. Electric iron. 166,199, Mar. 18.

Kaufman & Krieger, Inc., assignee: *See*—
Krieger, Herman.

Krieger, Herman, assignor to Kaufman & Krieger, Inc., New York, N. Y. Embroidered fabric. 166,200, Mar. 18.

Krieger, Herman, assignor to Kaufman & Krieger, Inc., New York, N. Y. Embroidered fabric. 166,201, Mar. 18.

Krieger, Herman, assignor to Kaufman & Krieger, Inc., New York, N. Y. Embroidered fabric. 166,202, Mar. 18.

Krieger, Herman, assignor to Kaufman & Krieger, Inc., New York, N. Y. Embroidered fabric. 166,203, Mar. 18.

Krieger, Herman, assignor to Kaufman & Krieger, Inc., New York, N. Y. Embroidered fabric. 166,204, Mar. 18.

Krieger, Herman, assignor to Kaufman & Krieger, Inc., New York, N. Y. Embroidered fabric. 166,205, Mar. 18.

Manning, Maxwell & Moore, Incorporated, assignee: *See*—
Burrows, Lewis M.

Marano, Herbert W., Brooklyn, N. Y., assignor to Wilson-Jones Company, Chicago, Ill. Staple driver or similar article. 166,206, Mar. 18.

McCulloch, Donald J.: *See*—
Gay, Fred G., Jr., and McCulloch.

McNally, John C., and S. F. Fuston, Jr., Fort Worth, Tex. Window for an outside door. 166,207, Mar. 18.

Meyer, Joseph F., St. Paul, Minn. Paper napkin or the like. 166,208, Mar. 18.

Modern Village Stores, Inc., assignee: *See*—
Crawford, Wayland H.
Hartup, Frederick W.

Mojud Hosiery Co., Inc., assignee: *See*—
Judson, Nathaniel.

Mulholland, Robert: *See*—
Wood, Geoffrey H., and Mulholland.

Nelson, Carlton L., East Aurora, N. Y., assignor to John Wanamaker Philadelphia, Philadelphia, Pa. Dinner plate or similar article. 166,209, Mar. 18.

Petracek, Vaclav, Long Island City, assignor to Hafner Associates, Inc., New York, N. Y. Woven plastic fabric. 166,210, Mar. 18.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,211, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 166,212, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 166,213, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,214, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,215, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,216, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,217, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,218, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,219, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,220, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,221, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,222, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 166,223, Mar. 18.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 166,224, Mar. 18.
Popell, Samuel J., Chicago, Ill. Bread box. 166,225, Mar. 18.
Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Dustpan. 166,226, Mar. 18.
Sachs, Albert, Chicago, Ill. Gateleg table base. 166,227, Mar. 18.
Salmon, Berle B., Montreal, assignor to E. J. Clark, Westmont, Quebec, Canada. Combined bank and picture frame. 166,228, Mar. 18.
Schwartz, Nathan W., Bronx, N. Y. Bottle. 166,229, Mar. 18.
Shoffner, Willie M., Dayton, Ohio Angle head metal-cutting shears. 166,230, Mar. 18.
Standard Hosiery Mills, Inc., assignee: *See*—
Torgersen, Raymond A.
Stegeman, Raymond F. E., and F. G. Gay, Jr., Greece, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Goggle front. 166,231, Mar. 18.
Telectro Industries Corp., assignee: *See*—
Zapolski, Benjamin J.
Torgersen, Raymond A., Burlington, N. C., assignor to Standard Hosiery Mills, Inc. Man's sock. 166,232, Mar. 18.
Torgersen, Raymond A., Burlington, N. C., assignor to Standard Hosiery Mills, Inc. Man's sock. 166,233, Mar. 18.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Wanamaker, John, Philadelphia, assignee: *See*—
Nelson, Carlton L.
Wilson-Jones Company, assignee: *See*—
Marano, Herbert W.
Wood, G. H., and Company Limited, assignee: *See*—
Wood, Geoffrey H., and Mulholland.
Wood, Geoffrey H., and R. Mulholland, assignors to G. H. Wood and Company Limited, Toronto, Ontario, Canada. Place mat. 166,234, Mar. 18.
Zapolski, Benjamin J., New York, assignor to Telectro Industries Corp., Long Island City, N. Y. Wire recorder. 166,235, Mar. 18.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Laboratories, assignee: *See*—
Glenn, Howard J., and Horrom.
Abell, Rollin, Chatham, Mass. Engine driving mechanism. 2,589,470, Mar. 18
Absher, Henry J., Phoenix, Ariz. Layout spacer or instrument. 2,589,525, Mar. 18.
Admiral Corporation, assignee: *See*—
Iwashita, George K.
Agapetus, Napoleon A., Port Neches, R. R. Reese, Austin, Tex., and L. P. Scoville, Crestwood, assignors to Jefferson Chemical Company, Inc., New York, N. Y. Purification of crude ethylene dichloride. 2,589,212, Mar. 18.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Carson, John F.
Woods, Lyle C., and Teeter.
Ahlmeyer, Harvey, assignor of one-half to R. Lunger, Ogallala, Nebr. Thresher attachment. 2,589,318, Mar. 18.
Almasso, Marcos: *See*—
Guzzetti, Alfredo, and Almasso.
Airborne Instruments Laboratory, Inc., assignee: *See*—
Bowman, David F.
Aktieselskabet "Ferrosan," assignee: *See*—
Jensen, Kai A.
Albrecht, Richard M., Le Claire, assignor to Victor Animatograph Corporation, Davenport, Iowa. Portable sounding device. 2,589,319, Mar. 18.
Aldrich, R. E. Lee, Jr.: *See*—
McAlpine, Francis J., M. L., and Aldrich.
Allen, Frank B., Towaco, assignor to C-O-Two Fire Equipment Company, Newark, N. J. Nozzle for dry powder extinguishers. 2,589,213, Mar. 18.
Allenbrook, Charles T., New Rochelle, N. Y. Kit for artists. 2,589,320, Mar. 18.
Allison Company, The, assignee: *See*—
Allison, Hugh V.
Allison, Hugh V., Fairfield, assignor to The Allison Company, Bridgeport, Conn. Resin, abrasive article incorporating same, and making same. 2,589,652, Mar. 18.
Aluminum Company of America, assignee: *See*—
Noyes, Maxwell E.
Alvarez-Tostado, Claudio, and W. B. Harlow, Palo Alto, Calif. Production of silicon sulfide. 2,589,653, Mar. 18.
American Cyanamid Company, assignee: *See*—
Cook, Elmer W., and Moss.
Cook, Elmer W., Moss, and Hook.
Kropa, Edward L., and Padbury.
American Dairies, Incorporated, assignee: *See*—
Turner, Charles W.
American Enka Corporation, assignee: *See*—
Van Nouhuys, Herman L.
American Steel Foundries, assignee: *See*—
Bachman, Fred E.
Cottrell, Robert B.
Kinne, Edmund P.
American Throttle Company, Inc., assignee: *See*—
Griffin, Joseph F.
American Viscose Corporation, assignee: *See*—
Koster, Frederick W., and Oberly.
Ampro Corporation, assignee: *See*—
Bauman, Harold W., and Sackter.
Anderson, Doyle, Fort Wayne, Ind. Grapple for handling barrels. 2,589,918, Mar. 18.
Anderson, Jack M.: *See*—
Anderson, Oscar W. and J. M.
Anderson-Miller and Poston Mfg. Co., assignee: *See*—
Anderson, William A.
Anderson, Oscar W. and J. M., Denver, Colo. Drill case. 2,589,593, Mar. 18.
Anderson, Stanley E., Chicago, Ill. Stamping machine with perfecting feature. 2,589,761, Mar. 18.
Anderson, William A., assignor to Anderson-Miller and Poston Mfg. Co., Spokane, Wash. Irrigation system. 2,589,321, Mar. 18.
Anderson, William O.: *See*—
Mong, Edgar W., and Anderson.
Andrews, Boley A., assignor, by mesne assignments, to The Vendo Company, Kansas City, Mo. Electrical coin selector. 2,589,214, Mar. 18.
Archer, Edna M., Los Angeles, Calif. Massaging machine. 2,589,322, Mar. 18.
Archer, Jean, Paris, France. Goods elevator for vehicles. 2,589,654, Mar. 18.
Arden Farms Co., assignee: *See*—
Kipper, Allen F.
Ardis, Alan E.: *See*—
Schmidt, Richard F., Ardis, and Gilbert.
Armitage, Frank, and E. S. J. Fry, Homerton, London, England, assignors, by mesne assignments, to The Sherwin-Williams Company, Cleveland, Ohio. Interpolymers and making same. 2,589,655, Mar. 18.
Armstrong, Ellis B., Lubbock, Tex. Well packer with expandible seals. 2,589,656, Mar. 18.
Army, United States of America as represented by the Secretary of the, assignee: *See*—
Colley, Martin H.
Arnold, George B.: *See*—
Hess, Howard V., Arnold, and Truitt.
Aro Equipment Corporation, The, assignee: *See*—
Carter, John F.
Ginter, Charles W.
Arundale, Erving, Westfield, N. J., and F. Bascom, Staten Island, N. Y., assignors to Standard Oil Development Company. Producing a butadiene-acrylonitrile copolymer latex of high solids content. 2,589,919, Mar. 18.
Asbell, Ferriss E., Arlington, Calif. Concrete block molding machine. 2,589,594, Mar. 18.
Ash, Clarence L., Churubusco, Ind., assignor to General Electric Company. Industrial liquid cooler automatic liquid level control. 2,590,061, Mar. 18.
Ashley, John W., and J. F. Leahy, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Extruder injector combination for use in the attachment of heels to shoes. 2,589,323, Mar. 18.
Ashlock, George W., Jr., Oakland, Calif. Fruit pitting chuck. 2,589,324, Mar. 18.
Aske, Irving E., Muskegon, Mich. Apparatus for distributing soluble material. 2,589,595, Mar. 18.
Atlas Powder Company, assignee: *See*—
Brandner, John D.
Atwood, John D., Marion, Ill. Jet engine. 2,589,215, Mar. 18.
Auer, Bessie J., Ossining, N. Y. Crib sheet with a pajama back. 2,589,596, Mar. 18.
Auer, Laszlo, South Orange, N. J. Modified short oil alkyd resins. 2,589,657, Mar. 18.
Austin, Sumter M., assignee: *See*—
Tucker, William C.
Ayers, Ernest I. and H. M., Martinsville, Ind. Cable outside insulation stripper. 2,589,471, Mar. 18.
Ayers, Harley M.: *See*—
Ayers, Ernest I. and H. M.
Ayres, Waldemar A., Kew Gardens Hills, N. Y., assignor to The Sperry Corporation. Aircraft apparatus for simulating a line of sight-defining structure. 2,589,216, Mar. 18.
Baak, Albert E., Los Angeles, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control apparatus. 2,589,597, Mar. 18.
Bach, John W.: *See*—
Rouan, Francis J., and Bach.
Bachman, Albert W., Parma, Ohio. Barrow attachment for lawn mowers. 2,589,325, Mar. 18.
Bachman, Fred E., assignor to American Steel Foundries, Chicago, Ill. Brake head mounting. 2,590,062, Mar. 18.
Bailey, Andrew J.: *See*—
King, William A., and Bailey.
Bailey, William D., Jr., Oakland, Calif. Rotary reaction nozzle fuel burner. 2,590,063, Mar. 18.
Ball, Charles F., assignor to Joy Manufacturing Company, Franklin, Pa. Mine shuttle car. 2,589,217, Mar. 18.
Ballard, Sam L., Houston, Tex. Pipe bending machine, including skid lifting device. 2,589,651, Mar. 18.
Bardeen, John, Summit, and W. H. Brattain, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor amplifier and electrode structures therefor. 2,589,658, Mar. 18.
Barker Equipment Company, Inc., assignee: *See*—
Barker, Ralph B.
Barker, Ralph B., assignor to Barker Equipment Company, Inc., Keosauqua, Iowa. Sectionalized bottle carrier. 2,589,526, Mar. 18.
Barnett, Charles and W. Hatfield, England. Potato feeding machine. 2,589,762, Mar. 18.
Barnett, William: *See*—
Barnett, Charles and W.
Barrett, John F., Indianapolis, Ind. Golf tee. 2,589,763, Mar. 18.
Bascom, Frances: *See*—
Arundale, Erving, and Bascom.
Basso, Joseph, Owosso, Mich. Ski sled. 2,589,764, Mar. 18.
Bauer, Alfred, Le Locle, Switzerland. Stamping machine. 2,589,659, Mar. 18.

Bauman, Harold W., Chicago, and M. Sackter, Arlington Heights, assignors to Ampro Corporation, Chicago, Ill. Magnetic instrument high-speed reel drive. 2,589,660, Mar. 18.

Beckett, Ronald C., Galt, Ontario, assignor to Kralinator Products Limited, Preston, Ontario, Canada. Oil filter. 2,589,920, Mar. 18.

Beelaerts van Blokland, J. Petrus, Amsterdam, Netherlands. Door lock. 2,589,749, Mar. 18.

Belcher, Walter A., Jr., Providence, R. I. Grinding wheel. 2,589,661, Mar. 18.

Belew, Leland W., assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio. Rotary card filing apparatus. 2,589,598, Mar. 18.

Bell Aircraft Corporation, assignee: *See*—
Young, Arthur M.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bardeen, John, and Brattain.
Bjornson, Bjorn G.
Goodale, Walter D., Jr., and Martin.
Hickman, Clarence N.
Kirkpatrick, William E. and Sears.
Lacy, Lester Y.
Shepherd, William G.

Bellucci, Charles, Jersey City, N. J. Immersion heater. 2,589,473, Mar. 18.

Belmont, Elliott T., Boston, Mass. Aerial display apparatus. 2,589,472, Mar. 18.

Bendix Aviation Corporation, assignee: *See*—
MacCallum, Alan M.
McNaney, Joseph T.
Miller, John M., Jr.
Price, Harold W.
Rudd, Maurice A.
Seifried, Paul E.
Seliger, Rudolf R.
Thomas, Thomas H., Price, and Long.
Wheeler, Richard H.
Zimmerman, Harry F.

Bennett, E. R., assignee: *See*—
Smith, William O.

Bennett, James A. J., Dumbarton, Scotland. Helicopter rotor construction. 2,589,527, Mar. 18.

Benninga (Mitcham) Limited, assignee: *See*—
Schoenfeld, Henry D.

Berglund, Orion W., Dayton, assignor to The Orr Felt Blanket Company, Piqua, Ohio. Web carrier and making. 2,589,765, Mar. 18.

Bergsma, Clarence J., assignor, by mesne assignments, to Indian Sales Corporation, Springfield, Mass. Low capacity gear pump. 2,589,528, Mar. 18.

Bernstein, Wilburn F., Hollywood, Ill., now by judicial change of name W. F. Bradley; E. Bradley, administratrix of said W. F. Bradley deceased. Magnetic oil seal construction. 2,589,766, Mar. 18.

Bess, Leon, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Voltage pulse generating circuit. 2,589,767, Mar. 18.

Bigelow-Sanford Carpet Company, Inc., assignee: *See*—
Dildilian, Ara T. and Wood.

Biggs, Evelyn M., Pawtucket, R. I. Safety razor and protective casing. 2,589,327, Mar. 18.

Bishop, Carl E., Carlisle, Iowa. Sectional demountable steam generator. 2,589,218, Mar. 18.

Bjornson, Bjorn G., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radiotelephone receiving system. 2,589,662, Mar. 18.

Black-Clawson Company, The, assignee: *See*—
Staege, Stephen A.

Bloch, Herman S.: *See*—
Hervert, George L., and Bloch.

Blodgett, Katharine B., and V. J. Schaefer, Schenectady, N. Y., assignors to General Electric Company. Electrical indicator of mechanical expansion. 2,589,983, Mar. 18.

Blum, Hosmer L., Burlingame, Calif., assignor to L. C. Grover. Advertising device. 2,589,474, Mar. 18.

Boardman, Reginald G., Sutton Coldfield, near Birmingham, and A. P. Thomas, Marston Green, Birmingham, England. Electric steaming iron. 2,589,921, Mar. 18.

Bonafide Mills, Inc., assignee: *See*—
Lurie, Joseph M.

Bond, Donald C., Northbrook, and M. Savoy, assignors to The Pure Oil Company, Chicago, Ill. Studying earth formations employing acetylene as a tracer gas. 2,589,219, Mar. 18.

Bond, Donald C., Northbrook assignor to The Pure Oil Company, Chicago, Ill. Removal of mercaptans from hydrocarbons. 2,589,663, Mar. 18.

Bond, John A., and J. L. Wiley, Houston, Tex., assignors to McCullough Tool Company, Los Angeles, Calif. Releasable rope socket with weight indicator. 2,589,599, Mar. 18.

Bondon, Lewis A., Arlington, N. J. Coaxial transmission line spacing assembly. 2,589,328, Mar. 18.

Borcherding, Walter H., San Francisco, Calif., assignor to The M. W. Kellogg Company, Jersey City, N. J. Catalyst stripping of fouled catalysts employed in hydrocarbon conversion processes. 2,589,984, Mar. 18.

Borg-Warner Corporation, assignee: *See*—
Hannum, John A.
Nutt, Harold, and Reed.

Borneman, George, assignor to L. G. Nester Company, Incorporated, Millville, N. J. Stopcock retaining device. 2,589,985, Mar. 18.

Borovec, Joseph, Berwyn, Ill. Safety control device for elevators. 2,589,329, Mar. 18.

Bosshard, John J., assignor to Brasco Manufacturing Company, Harvey, Ill. Store front pane fastener. 2,589,986, Mar. 18.

Bowers, Erie F., Albemarle, N. C. Adjustable louver ventilator. 2,589,529, Mar. 18.

Bowman, David F., assignor to Airborne Instruments Laboratory, Inc., Mineola, N. Y. Antenna system. 2,589,664, Mar. 18.

Bowman, Harry A., Anchorage, Territory of Alaska. Quick detachable anchoring means for chairs and the like. 2,589,922, Mar. 18.

Brach, E. J., & Sons, assignee: *See*—
Spain, William P.

Bradford, Purdy, Palos Park, and H. J. White, Lansing, assignors to Swift & Company, Chicago, Ill. Anticaking agent for cleansing powder. 2,589,330, Mar. 18.

Bradley, Evelyn, administratrix: *See*—
Bernstein, Wilburn F.

Bradley, Wilburn F.: *See*—
Bernstein, Wilburn F.

Bradley, William H., assignor to Horton Manufacturing Company, Fort Wayne, Ind. Latch type clutch mechanism. 2,589,665, Mar. 18.

Brandner, John D., assignor to Atlas Powder Company, Wilmington, Del. Aromatic ether-ester of diglycolic acid. 2,589,666, Mar. 18.

Brasco Manufacturing Company, assignee: *See*—
Bosshard, John J.

Brattain, Walter H.: *See*—
Bardeen, John, and Brattain.

Braun, Karl J., Glenbrook, and F. Miller, Jr., Springdale, Conn., assignors to Remington Rand Inc., New York, N. Y. Sensing mechanism. 2,589,987, Mar. 18.

Braund, John J., Washington, D. C. Apparatus for charting geographical profile. 2,589,923, Mar. 18.

Braybrook, Victor W., Hounslow, England. Sash construction. 2,589,924, Mar. 18.

Brightwell, Doreen W., Rugby, assignor to R. E. Cooper, Mountsorrel, England. Projector with rotatable picture drum and magnetic braking means. 2,589,530, Mar. 18.

Bristol Aeroplane Company Limited, The, assignee: *See*—
Owner, Frank M., Mansell, and Marchant.

Bristol Steel & Iron Works, Inc., assignee: *See*—
Ferguson, Robert O.

Brooks, Vern E., Fort Worth, Tex. Paint loosening and scraping device. 2,589,531, Mar. 18.

Broos, Henricus A., Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Radiofrequency receiver with band-spread tuning. 2,589,331, Mar. 18.

Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. Pass case or the like. 2,589,667, Mar. 18.

Brown, Norman F., Surrey, assignor to N. F. B. Displacement Pump Co. Limited, London, England. Resilient sealing member for pistons, plungers, or the like. 2,589,332, Mar. 18.

Brown, Orville R., Danville, Ill. Toy hoisting truck. 2,589,333, Mar. 18.

Browne, Geoffrey D., Upper Norwood, London, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement for time subdivision. 2,589,334, Mar. 18.

Brownie, Rex S., assignor to International Hardware Manufacturing Company, Detroit, Mich. Stay bar construction. 2,589,768, Mar. 18.

Brucker, Henry, Maplewood, assignor to Seal-Spout Corporation, Newark, N. J. Machine for inserting pouring spouts into containers. 2,589,769, Mar. 18.

Bruno, Samuel J., Belleville, assignor to The Thomas Wright Co., Inc., Jersey City, N. J. Coal delivery truck and depositing conveyer. 2,589,988, Mar. 18.

Brunsvold, Earle M., Glen Lake, Minn. Ash tray. 2,589,989, Mar. 18.

Buchner, Guy M., Holdenville, Okla. Pull actuated trap hook. 2,589,533, Mar. 18.

Buckeridge, Roger M., assignor to Goodman Manufacturing Company, Chicago, Ill. Belt conveyer system. 2,589,220, Mar. 18.

Buckeye Cotton Oil Company, assignee: *See*—
Rowe, Steward.

Budd Company, The, assignee: *See*—
Dean, Albert G.
Dean, Walter B. and A. G.
Lindsay, Alexander R.
Schiff, Karl.

Bullinger, Othmar J., Johnstown, Pa. Device for measuring front-wheel play. 2,589,770, Mar. 18.

Buratovich, Mike T., assignee: *See*—
Martin, Clyde M.

Buratovich, Nick J., assignee: *See*—
Martin, Clyde M.

Burgess, Louis, Jersey City, N. J. Coffee maker. 2,589,221, Mar. 18.

Burgess, Louis, Jersey City, N. J. Coffee maker. 2,589,222, Mar. 18.

Burgess, Louis, Jersey City, N. J. Coffee maker. 2,589,335, Mar. 18.

Burgess, Louis, Jersey City, N. J. Coffee maker. 2,589,336, Mar. 18.

Burkholder, Claude A., assignor to General Box Distributors, Fresno, Calif. Feeding device for box-part assembling machines. 2,589,600, Mar. 18.

Burnett, Edward N., San Lorenzo, Calif. Magnetic slate. 2,589,601, Mar. 18.

Burns, Erwin, Los Angeles, Calif. Liner hanger. 2,589,337, Mar. 18.

Burnside, Thos. R., assignee: *See*—
Guisti, Louis J.

Burtner, Robert R., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Hydroxy-tetrahydro-naphthoyl-alkanoic acids. 2,589,223, Mar. 18.

Burtner, Robert R., Skokie, assignor to G. D. Searle & Co., Chicago, Ill. Basic esters of substituted benzoylaliphatic acids and salts thereof. 2,589,224, Mar. 18.

Busch, Tom N., assignee: *See*—
Mittell, Carl E.

Buttioph, Ralph Q., Long Beach, Calif. Drill guiding assembly. 2,589,534, Mar. 18.

Buxton, Incorporated, assignee: *See*—
Broughton, Douglas J.

Byers, Anna R. N., executrix: *See*—
Byers, Laud S.

Byers, Laud S., deceased, Reno, Nev.; A. R. N. Byers, executrix. Nitrate expolsive containing aluminum. 2,589,532, Mar. 18.

C-O-Two Fire Equipment Company, assignee: *See*—
Allen, Frank B.

Cain, Virginia L., Linden, and C. E. Hemminger, Westfield, N. J., assignors to Standard Oil Development Company. Hydrocarbon synthesis. 2,589,925, Mar. 18.

Caldwell, Frank W., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Vertically offset rotary wing axes. 2,590,064, Mar. 18.

Calico Printers' Association Limited, The, assignee: *See*—
Miller, William S.

Calvert, Raymond, assignor to The Wayne Kerr Laboratories Limited, New Malden, England. High-frequency alternating current bridge. 2,589,535, Mar. 18.

Campbell, Rollin E., and W. P. Thompson, Anderson, Ind. Tire spreader. 2,589,771, Mar. 18.

Candelise, Alfred, Flint, assignor to General Motors Corporation, Detroit, Mich. Spark plug. 2,589,338, Mar. 18.

Canfield, Robert H., Washington, D. C. Wakeless torpedo. 2,589,225, Mar. 18.

Canon Camera Company, Ltd., assignee: *See*—
Suzukawa, Hiroshi.

Carbonaro, Marius C., Paris, France. Feeding of internal-combustion engines. 2,589,536, Mar. 18.

Carlsen, Leonard O., Rochester, and N. W. Fowler, Brighton, assignors to Gleason Works, Rochester, N. Y. Machine for producing gears. 2,589,475, Mar. 18.

Carpenter, E. W., Manufacturing Company, assignee: *See*—
Leete, William T.

Carpentier, Pascal J., Paris, France. Generating gases within plastic materials. 2,589,537, Mar. 18.

Carron, Leon A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Side slipping weft detector for looms. 2,589,990, Mar. 18.

Carson, John F., Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture. Acylation of polysaccharides in formamide. 2,589,226, Mar. 18.

Carson, Stanley R., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Windshield wiper blade. 2,589,339, Mar. 18.

Carter, Harry A.: *See*—
Carter, Russell E. and H. A.

Carter, John F., assignor to The Aro Equipment Corporation, Bryan, Ohio. Lubrication cabinet. 2,589,538, Mar. 18.

Carter, Russell E. and H. A., Portland, Oreg. Carrier for use on top of automobiles. 2,589,772, Mar. 18.

Case, J. I., Company, assignee: *See*—
Downey, Wayne A.

Casey, Charles L., Riverside, Ill. Bedclothes holder. 2,589,476, Mar. 18.

Celanese Corporation of America, assignee: *See*—
Hurst, Thomas M.
Moncrieff, Leslie J.

Chamberlain Corporation, assignee: *See*—
Etten, Nicholas L.

Chambers, Bynom L., Dalton, assignor, by mesne assignments, to Dixie-Belle Spread Co., Inc., Calhoun, Ga. Skip stitch machine. 2,589,340, Mar. 18.

Chance, Britton, Cambridge, and A. H. Frederick, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Vernier ranging circuit. 2,589,773, Mar. 18.

Chandler & Price Company, The, assignee: *See*—
Root, Charles F.

Chatfield, Earl C., Oak Park, Ill. Bulb setter. 2,589,774, Mar. 18.

Childress, Horace R., Dallas, Tex. Aircraft engine mounting. 2,589,539, Mar. 18.

Chilowsky, Constantin, assignor to Technical Assets, Inc., New York, N. Y. Method and apparatus for refrigeration. 2,589,775, Mar. 18.

Chirana, Narodoni P., assignee: *See*—
Dvořák, Alois.

Chisholm, Harry L., Jr., G. Farrell, and B. E. O'Connor, Buffalo, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich. Hydraulic steering motor and shimmy dampener. 2,589,341, Mar. 18.

Christensen, Carl O., Walnut Creek, assignor to Roll-Rite Corporation, Oakland, Calif. Lift truck accessory. 2,589,342, Mar. 18.

Christiansen, Nels M.: *See*—
Magnuson, Raymond A., and Christiansen.

Ciba Limited, assignee: *See*—
Meier, Erwin.

Cieslik, Peter P., Detroit, Mich. Fish bait. 2,589,343, Mar. 18.

Claesson, Per H. E.: *See*—
Rost, Helge F., Thunell, Vigren, and Claesson.

Clark, "E." Lee Rae, Spokane, Wash. Ski attachment for wheeled vehicles. 2,589,602, Mar. 18.

Clark, Earl W., East Lynn, Mass., assignor to General Electric Company. Constant current regulator. 2,589,991, Mar. 18.

Clennett, George: *See*—
Wood, William S., Clennett, and Hulland.

Cline, George, assignee: *See*—
Smith, Le Roy J.

Coat Craft Company, assignee: *See*—
Goldstein, Aaron A.

Cobb, Clifton A., University City, Mo. Magazine stripping machine. 2,589,673, Mar. 18.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Control governor for fluid-operated pumps. 2,589,668, Mar. 18.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Closed fluid-operated free-pump system with three concentric tubings. 2,589,669, Mar. 18.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Closed fluid-operated free-pump system with two parallel tubings, one of which encloses a third tubing. 2,589,670, Mar. 18.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Closed fluid-operated free-pump system with three parallel tubings. 2,589,671, Mar. 18.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Closed fluid-operated free-pump system with two parallel tubings within a third tubing. 2,589,672, Mar. 18.

Cohen, Herman, Brookline, Mass. Crushing machine. 2,589,603, Mar. 18.

Cohn, Eugene: *See*—
Cohn, Samuel, Walter, and Cohn.

Cohn, Samuel, J. G. Walter, and E. Cohn, New York, assignors to Samcoe Holding Corporation, Woodside, N. Y. Method of and apparatus for treating tubular textile fabrics. 2,589,344, Mar. 18.

Cohn, Samuel, J. G. Walter, and E. Cohn, New York, assignors to Samcoe Holding Corporation, Woodside, N. Y. Treating tubular textile fabric. 2,589,345, Mar. 18.

Cohrs, Walter F., Glencoe, Minn. Liquid dispensing and feeding apparatus. 2,589,992, Mar. 18.

Colgrove, Robert D., assignor to Colgrove Tackle Co. Inc., Vancouver, Wash. Fishing reel. 2,589,776, Mar. 18.

Colgrove Tackle Co Inc., assignee: *See*—
Colgrove, Robert D.

Colley, Martin H., Big Delta, Alaska, assignor to the United States of America as represented by the Secretary of the Army. Trigger conversion device for rifles. 2,589,227, Mar. 18.

Collins, Fred V., Des Plaines, assignor to W. F. Stahl, Kenilworth, Ill. Plastic-sealing apparatus. 2,589,777, Mar. 18.

Comiskey, Anthony T., Sr., Chicago, Ill. Windshield for motorcycles and similar vehicles. 2,589,993, Mar. 18.

Congoleum-Nairn Inc., assignee: *See*—
Petry, Robert K.

Connor, W. B., Engineering Corporation, assignee: *See*—
Dauphinee, George S.

Cook, Elmer W., New York, N. Y., and P. H. Moss, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Aliphatic amido propyl quaternary ammonium salts. 2,589,674, Mar. 18.

Cook, Elmer W., London, England, P. H. Moss, Seldovia, Alaska, and E. O. Hook, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Production of 8-hydroxybenzyl O,O-dithiophosphoric acid triesters. 2,589,675, Mar. 18.

Cook, Harold C., Sr., Long Island City, N. Y. Garment hanger. 2,589,926, Mar. 18.

Cooper, Reginald E., assignee: *See*—
Brightwell, Doreen W.

Cordis, Nat, assignee: *See*—
Kitson, Gerald L. and C. H.

Cordis, Nat, Silver Lake, Wis. Poultry nest appliance. 2,589,228, Mar. 18.

Corns, Alfred J., East Beckley, W. Va. Gas burning metal tire heater. 2,589,778, Mar. 18.

Corporon, Richard P., Haddonfield, N. J., assignor to Radio Corporation of America. Oscillation generator system. 2,589,477, Mar. 18.

Cortes, Edmundo, New York, N. Y. Sectional brush. 2,589,779, Mar. 18.

Cory Corporation, assignee: *See*—
Crossley, Charles N., Gagan, Karlen, and Peters.

Costello, Joseph, Rogers Forge, and H. S. Price, Jr., Catonsville, assignors to The Glenn L. Martin Company, Middle River, Md. Hose support for plastic tubes. 2,589,780, Mar. 18.

Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Pin retaining means. 2,589,781, Mar. 18.

Couchot, Orville F., De Land, Fla. Drain closure unit. 2,589,540, Mar. 18.

Craig, W. E., Philadelphia, Pa., and M. J. Culver, Cincinnati, Ohio, assignors to Rohm & Haas Company, Philadelphia, Pa. Tert - octyl di(cyanomethyl)amine. 2,589,208, Mar. 18.

Cramer, R. W., Company, Incorporated, assignee: *See*—
Schellens, Eugene L.

Crane Packing Company, assignee: *See*—
Schmitz, Carl E.

Crane, Robert, Jr., Chappaqua, and L. L. Pourciau, Pleasantville, N. Y., assignors to General Precision Laboratory Incorporated. Keyed automatic gain control and sync separator. 2,589,927, Mar. 18.

Creek, John O., Brampton, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Machine for polishing blades. 2,589,782, Mar. 18.

Crissy, Robert J., Union, N. J., assignor, by mesne assignments, to Scriptomatic, Inc., Philadelphia, Pa. Sheet distributing machine. 2,589,676, Mar. 18.

Crompton & Knowles Loom Works, assignee: *See*—
Carron, Leon A.
Sepavich, Victor F.

Croson, Clyde R., Wheeling, W. Va. Pipe shaping apparatus. 2,589,541, Mar. 18.

Crossley, Charles N., Riverside, R. J. Gagan, Oak Park, H. R. Karlen, Chicago, Ill., and H. W. Peters, Milwaukee, Wis., assignors to Cory Corporation, Chicago, Ill. Beverage brewer. 2,589,783, Mar. 18.

Culver, Martin J.: *See*—
Craig W. E. and Culver.

Cummins-Chicago Corp., assignee: *See*—
Miller, Nicholas S.

Cunningham, Gale C., Inglewood, and R. Weldon, Wilmington, Calif., assignors to North American Aviation, Inc. Package and packaging. 2,589,604, Mar. 18.

Curtis, Guy A., Cleveland Heights, Ohio, assignor to United States Motors Corporation, Oshkosh, Wis. Garage door operator. 2,589,478, Mar. 18.

Curtis, Guy A., Cleveland Heights, Ohio, assignor to United States Motors Corporation, Oshkosh, Wis. Door operator. 2,589,479, Mar. 18.

Curtis, Guy A., Cleveland Heights, Ohio, assignor to United States Motors Corporation, Oshkosh, Wis. Automatic door operator. 2,589,480, Mar. 18.

Custer, Willard R., Hagerstown, Md. High lift wing channel with movable wing. 2,589,994, Mar. 18.

Cutter Corporation, assignee: *See*—
Davis, Roy P. M., and Shaeffer.

Dadisman, John W.: *See*—
Merritt, Mortimer M., and Dadisman.

Dana Corporation, assignee: *See*—
Thelander, W. Vincent.

Darnell, Jesse L., Milford, assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio. Bake pan unit. 2,589,605, Mar. 18.

Darney, Harold E., Bloomfield, assignor to Hanovia Chemical and Mfg. Company, Newark, N. J. Socket for elongated tubular lamps. 2,589,677, Mar. 18.

Darwin, Joseph A., South Orange, N. J. Time control device. 2,589,995, Mar. 18.

Dauphinee, George S., Brooklyn, assignor, by mesne assignments, to W. B. Connor Engineering Corporation, New York, N. Y. Adsorbing device. 2,589,229, Mar. 18.

Davis, Roy P. M., and N. Shaeffer, Los Angeles, Calif., assignors, by mesne assignments, to Cutter Corporation. Hair trimming device. 2,589,230, Mar. 18.

Dean, Albert G.: *See*—
Dean, Walter B. and A. G.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. End underframe for railway cars. 2,589,996, Mar. 18.

Dean, Walter B. and A. G., Narberth, assignors to The Budd Company, Philadelphia, Pa. Railway car. 2,589,997, Mar. 18.

De Bell & Richardson, Inc., assignee: *See*—
Nickerson, Mortimer H.
Richardson, Harry M., and Larson.

De France, Henri G., and H. Ernyei, assignors to "La Radio Industrie" S. A., Paris, France. Amplifier system. 2,589,542, Mar. 18.

De Frees, Joseph H., Warren, Pa. Emergency valve. 2,589,346, Mar. 18.

Dehydrating Process Co., assignee: *See*—
Ryan, John.
Ryan, John, and Wilson.

De Jong, Adriaan M., Stocksund, Sweden. Suspension device in sliding doors and the like. 2,589,928, Mar. 18.

De Lay, Manford S., St. Louis, Mo. Load equalizing device. 2,589,678, Mar. 18.

Demerath, Le Roy, assignor to Vail Manufacturing Company, Chicago, Ill. Staple strip cutting mechanism. 2,589,347, Mar. 18.

Dennesen, Christian F., Marblehead, Mass. Steering mechanism for the front wheels of baby carriages. 2,589,679, Mar. 18.

Denny, Orrin, Sr., Oakland, Calif. Transparency holder attachment for photographic enlargers. 2,589,680, Mar. 18.

Denss, Rolf: *See*—
Häfliger, Franz, Martin, and Denss.

Devoe & Raynolds Company, Inc., assignee: *See*—
Greenlee, Sylvan O.

Diamond Match Company, The, assignee: *See*—
Spinney, Lawrence F.

Dickinson, John, & Co. Limited, assignee: *See*—
Randall, John W.

Dickover, Marion W., Williamsville, N. Y., assignor to National Battery Company, St. Paul, Minn. Battery plate. 2,589,681, Mar. 18.

Diefenbach, Ervin P., Milwaukee, Wis. Attachment for automobile sun visors. 2,589,348, Mar. 18.

Diefenbach, Ervin P., Milwaukee, Wis. Magnetic key case. 2,589,349, Mar. 18.

Dildilian, Ara T., Suffield, Conn., and K. M. Wood, Valley Stream, assignors, by mesne assignments, to Bigelow-Sanford Carpet Company, Inc., New York, N. Y. Apparatus for continuous seaming of pile floor coverings. 2,589,929, Mar. 18.

Dimmick, Glenn L., and M. E. Widdop, Hadden Heights, N. J., assignors to Radio Corporation of America. Color television light divider. 2,589,930, Mar. 18.

Dixie-Belle Spread Co., Inc., assignee: *See*—
Chambers, Bynom L.

Dobbs, Frank G. and S. H., New York, N. Y. Foldable wallet. 2,589,481, Mar. 18.

Dobbs, Stephan H.: *See*—
Dobbs, Frank G. and S. H.

Donahoo, Joe T.: *See*—
Feiertag, Karl M., and Donahoo.

Dorr Company, The, assignee: *See*—
Scott, Charles H.

Dougherty, Charles E., New York, N. Y., and E. E. Minor, Baltimore, Md. Electronic control for monorail hoists or the like. 2,589,998, Mar. 18.

Dow Corning Corporation, assignee: *See*—
Goodwin, John T., Jr., and Hunter.
Sommer, Leo H.
Sommer, Leo H.

Downey, Wayne A., Moline, Ill., assignor to J. I. Case Company, Racine, Wis. Positive lockpin. 2,589,482, Mar. 18.

Drake, John W., Leetsdale, Pa., assignor to Koppers Company, Inc. Pusher machine and coke guide interlock. 2,589,231, Mar. 18.

Dresser Equipment Company, assignee: *See*—
Coberly, Clarence J.

Drew, John, De Ridder, La., and J. C. Funderburk, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del. Preparing stabilized fatty acid nitriles. 2,589,232, Mar. 18.

Drew, John, De Ridder, La., and J. C. Funderburk, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del. Preparing stabilized tall oil nitriles. 2,589,233, Mar. 18.

Drew, John, De Ridder, La., and J. C. Funderburk, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del. Preparing stabilized rosin nitriles. 2,590,072, Mar. 18.

Drohman, Laurence H., Chicago, Ill. Combination tool stand and case. 2,589,234, Mar. 18.

Dudis, Charles G., assignor to The National Cash Register Company, Dayton, Ohio. Type member. 2,589,682, Mar. 18.

Dudley, Victor L., Franklin, assignor to Jov Manufacturing Company, Pittsburgh, Pa. Reeling device. 2,589,235, Mar. 18.

Duffee, Paul Y., Houston, Tex. Gate valve. 2,589,784, Mar. 18.

Dumont, Allen B., Laboratories, Inc., assignee: *See*—
Huffman, Charles E.

Dunlop, Andrew P., Riverside, and P. R. Stout, Chicago, Ill., assignors to The Quaker Oats Company. Furfuryl alcohol-ammonium thiocyanatealdehyde resins. 2,589,683, Mar. 18.

Dunn, Thomas B., Long Beach, Calif. Formation and casing tester. 2,589,606, Mar. 18.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Ellingboe, Ellsworth K.
Howard, Edward G., Jr.
Sampson, Herman J., Jr.

Dvořák, Alois, assignor of one-half to Chirana, národní podnik, Prague, Czechoslovakia. X-ray analysis of materials. 2,589,931, Mar. 18.

Earp, Charles W., Aldwych, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Radio direction finding system. 2,589,236, Mar. 18.

Eckel, John E., and F. Richard, assignors to Oil Center Tool Company, Houston, Tex. Wellhead. 2,589,483, Mar. 18.

Eckert-Mauchly Computer Corporation, assignee: *See*—
Weiner, James R.

Ecuer, Raymond, Valentigney, France. Multiple stage anchoring device. 2,589,484, Mar. 18.

Edge, Herbert A., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Recovery of SO_2. 2,589,684, Mar. 18.

Edington, William A., Shreveport, La. Shoe polishing machine. 2,589,785, Mar. 18.

Edmunds, Raymond S., Jr., San Antonio, Tex. Rotary cylinder heat exchanger with scraper. 2,589,350, Mar. 18.

Edwards, Alfred B., Jr., Plandome, N. Y. Window. 2,589,685, Mar. 18.

Eggenberger, Hans: *See*—
Von Allmen, Samuel, and Eggenberger.

Ehrlich, Charles N., New York, N. Y. Variable condenser. 2,589,351, Mar. 18.

Eldred, Edwin C., Jr., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Nail stop. 2,589,352, Mar. 18.

Ellern, Herbert, Ferguson, assignor to Universal Match Corporation, St. Louis, Mo. Match striking compounds. 2,589,607, Mar. 18.

Ellingboe, Ellsworth K., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Vinyl chloride-allyl glycidyl ether copolymers. 2,589,237, Mar. 18.

Elnicky, William, Vancouver, British Columbia, Canada. Cable shortening device. 2,589,543, Mar. 18.

Emrick, Melvin H., Jamaica, N. Y. Variable multiple head. 2,589,485, Mar. 18.

Emrick, Melvin H., Jamaica, N. Y. Indexing mechanism. 2,589,486, Mar. 18.

Engel, Harry C., Towson, R. Raab, Baltimore, and T. Pajak, Dundalk, assignors to The Glenn L. Martin Company, Middle River, Md. Forming hollow plastic bodies. 2,589,786, Mar. 18.

Eriksen, Arthur E., Delhi, Calif. Removing oil from vegetable material. 2,589,238, Mar. 18.

Ernyei, Herbert: *See*—
De France, Henri G., and Ernyei.

Eternit A.-G., assignee: *See*—
Herzog, Carl.

Ethyl Corporation, assignee: *See*—
Governale, Luke J., Huguet, and Neher.

Etten, Nicholas L., assignor to Chamberlain Corporation, Waterloo, Iowa. Single manipulative pressure adjuster and auxiliary release for wringers. 2,589,353, Mar. 18.

Etten, Nicholas L., assignor to Chamberlain Corporation, Waterloo, Iowa. Wringer. 2,589,354, Mar. 18.

Evans, John, Manufacturing Company, Inc., assignee: *See*—
Mittell, Carl E.

Faber, Clarence M., assignor to Morse Chain Company, Ithaca, N. Y. Chain coupling. 2,589,355, Mar. 18.

Fairest, Derek H., assignor to Morgan Fairest Limited, Sheffield, England. Labeling machine. 2,589,787, Mar. 18.

Fal, Barney J., Monessen, Pa. Match box with safety stop. 2,589,356, Mar. 18.

Fallon, Carlos, assignee: *See*—
Fallon, Eduardo.

Fallon, Eduardo, Cartagena, Colombia, assignor of one-half to M. Mitchell, New York, N. Y., and one-half to C. Fallon, Washington, D. C. Turbine-compressor unit. 2,589,239, Mar. 18.

Fantozzi, Vincent J., and L. H. Metzger, assignors to Super-Cut, Inc., Chicago, Ill. Diamond type tooth for rotary stone cutting saws. 2,589,357, Mar. 18.

Farley, Edward L., Lakeland, Fla. Fish bait. 2,589,932, Mar. 18.

Farnsworth Research Corporation, assignee: *See*—
Mayle, Louis F.

Farrell, George: *See*—
Chisholm, Harry L., Jr., Farrell, and O'Connor.

Faultless Caster Corporation, assignee: *See*—
Noelting, William H., and Skupas.

Fawaz, George, Beirut, Lebanon, assignor to Research Corporation, New York, N. Y. 3-substituted 1,4-naphthoquinones. 2,589,686, Mar. 18.

Federal Telecommunication Laboratories, Inc., assignee: *See*—
Parker, Louis W.

Feiertag, Arthur W., assignor to The McBee Company, Athens, Ohio. Ledger tray cabinet. 2,589,358, Mar. 18.

Feiertag, Karl M., and J. T. Donahoo, Fort Wayne, Ind., assignors to General Electric Company. Dynamoelectric machine. 2,589,999, Mar. 18.

Fell Developments Limited, assignee: *See*—
Fell, Louis F. R.

Fell, Louis F. R., Littleover, assignor to Fell Developments Limited, London, England. Internal-combustion engine power plant. 2,589,788, Mar. 18.

Fellows Medical Manufacturing Co., Inc., assignee: *See*—
Meyer, Arthur E.

Ferguson, Reginald, Peterborough, England. Internal-combustion engine. 2,590,000, Mar. 18.

Ferguson, Robert O., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn. Tobacco pipe. 2,589,359, Mar. 18.

Ferguson, Robert O., Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va. Rattrap. 2,589,360, Mar. 18.

Feyrer, William F., assignor to N. L. Solomon, Englewood, N. J. Device for forming and applying bobby pins to flat curls. 2,589,487, Mar. 18.

Field, Howard, Jr., assignee: *See*—
Ratkoviak, Casimer A.

Fine, Willard W., Columbus, Ohio. Toe shield. 2,589,791, Mar. 18.

Fiorella, Nicholas, assignee: *See*—
Higgins, John, and Fiorella.

Floeter, Adalene E., administratrix: *See*—
Floeter, Edward J., and Waack.

Floeter, Edward J., deceased, and E. V. Waack, Saginaw, Mich.; A. E. Floeter, administratrix of said E. J. Floeter. Beet harvester. 2,589,361, Mar. 18.

Flory, Paul J., Kent, and F. S. Leutner, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Preparing linear polyesters. 2,589,687, Mar. 18.

Flory, Paul J., Kent, and F. S. Leutner, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Preparing linear polyesters. 2,589,688, Mar. 18.

Ford, Ronald M., Birmingham, England. Bed and platen duplicating machine. 2,589,789, Mar. 18.

Ford, Ronald M., Sparkbrook, Birmingham, England. Secondary feed and moistening device for hectograph duplicating machine. 2,589,790, Mar. 18.

Forlin, Joseph E.: *See*—
Zenftman, Henryk, and Forlin.

Foster, Howard L., Detroit, Mich. Hydraulic coupling for use between a driving and a driven element. 2,589,362, Mar. 18.

Foster, Melville E., Minneapolis, Minn. Roller chart. 2,589,608, Mar. 18.

Foster, Melville E., Minneapolis, Minn. Roller chart. 2,589,609, Mar. 18.

Foufounis, Jean T., Paris, France. Self-posing device with adjustable periscopic view finder. 2,589,363, Mar. 18.

Fowler, John W., West Newton, Mass. Fishing signal. 2,589,610, Mar. 18.

Fowler, Norman W.: *See*—
Carlsen, Leonard O., and Fowler.

Fowler, William D., assignor to Shuron Optical Company, Inc., Geneva, N. Y. Lens grinding method and machine. 2,589,488, Mar. 18.

Fox, Benjamin, Philadelphia, Pa. Nonmicrophonic vacuum tube socket assembly. 2,590,001, Mar. 18.

Foxboro Company, The, assignee: *See*—
Roost, Oscar W.

Frank, Joseph J., Union, and J. C. Macy, Elizabeth, N. J., assignors to Hercules Fasteners, Inc. Pleating machine. 2,589,792, Mar. 18.

Frank, Laszlo, Sale, near Manchester, England. Machine for producing patterns photographically on the surface of copper and like rollers. 2,589,933, Mar. 18.

Franks, Ralph E., Baltimore, Ohio. Demountable propelling unit for vehicles. 2,589,793, Mar. 18.

Frantz, Virgil L., Roanoke, Va. Operating valve. 2,589,794, Mar. 18.

Frawley, Robert N.: *See*—
Martin, Edward J., and Frawley.

Frazier, George E., Sand Springs, Okla. Inclined plane magnetic game. 2,590,002, Mar. 18.

Frederick, Arden H.: *See*—
Chance, Britton, and Frederick.

Fry, Cyril H., Windsor, Ontario, Canada. Self-tightening weatherstrip. 2,589,364, Mar. 18.

Fry, Eric S. J.: *See*—
Armitage, Frank, and Fry.

Frye, William E., Washington, D. C. Double pulse generator. 2,589,240, Mar. 18.

Fuhr, Henry, Milwaukee, Wis. Combination work positioning and holding tool for layout and light finishing of work. 2,589,489, Mar. 18.

Funderburk, Joe C.: *See*—
Drew, John, and Funderburk.

Gagan, Raymond J.: *See*—
Crossley, Charles N., Gagan, Karlen, and Peters.

Galhouse, Leonard B., and H. N. Lurie, Chicago, Ill. Correcting foot deformities. 2,589,241, Mar. 18.

Gallo, Salvatore G.: *See*—
Young, David W., and Gallo.

Gar Wood Industries, Inc., assignee: *See*—
Shaeffer, George D.

Gary, Hartwell H., Norfolk, Va. Quick-opening manhole. 2,589,795, Mar. 18.

Gas Machinery Company, The, assignee: *See*—
Rathkey, Arnold C.

Gaston, John R., Gettysburg, Pa. Panel light mounting to absorb mechanical shocks. 2,590,003, Mar. 18.

Gaubatz, Arthur W., Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich. Contour describing instrument. 2,589,365, Mar. 18.

Gauthier, René, assignor to Societe Continentale et Coloniale de Construction, Societe Anonyme, Brussels, Belgium. Machine for hooping tubes. 2,589,366, Mar. 18.

Gelgy, J. R., A.-G., assignee: *See*—
Häfliger, Franz, Martin, and Denss.

Geldhof, Peter E., St. Joseph, Mich., assignor to Whirlpool Corporation. Vibration reducing support for washing machines and the like. 2,589,796, Mar. 18.

General Aniline & Film Corporation, assignee: *See*—
Hoch, Paul E., and Libby.
Horsky, Nicholas G.
Solonen, Nicholas W., and Randall.
Trump, Frederick O.

General Box Distributors, assignee: *See*—
Burkholder, Claude A.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Ash, Clarence L.
Blodgett, Katharine B., and Schaefer.
Clark, Earl W.
Feiertag, Karl M., and Donahoo.
Koller, Lewis R., and Williams.
Larkin, Thomas E.
Lewis, Ernest E., and Thorn.
Waguet, Philippe.
Willits, Glenn D.
Zelt, Elmer J.

General Motors Corporation, assignee: *See*—
Candellse, Alfred.
Carson, Stanley R.
Gaubatz, Arthur W.
Martin, Edward J., and Frawley.
Mitselfeld, Thomas H., and Zmuda.
Uhl, Peter W.

General Precision Laboratory Incorporated, assignee: *See*—
Crane, Robert, Jr., and Pourciau.
Kayek, Arthur F.

Getchell, Raymond E., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Fiber conditioning machine. 2,589,797, Mar. 18.

Getchell, Raymond E., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass. Fiber conditioning machine. 2,589,798, Mar. 18.

Gilbert, Harry: *See*—
Schmidt, Richard F., Ardis, and Gilbert.

Gilbert, William I.: *See*—
Montgomery, Charles W., and Gilbert.

Ginter, Charles W., assignor to The Aro Equipment Corporation, Bryan, Ohio. Hose guide. 2,589,544, Mar. 18.

Givaudan Corporation, The, assignee: *See*—
Naves, Yves-Rene.

Givens, Albert W. and D. G., Marlboro, N. Y. Combination conduit box and cable connector. 2,590,004, Mar. 18.

Givens, Della G.: *See*—
Givens, Albert W. and D. G.

Glaser, William F., Eastchester, and S. A. Hornung, assignors to Otis Elevator Company, New York, N. Y. Elevator dispatching and control system. 2,589,242, Mar. 18.

Gleason Works, assignee: *See*—
Carlsen, Leonard O., and Fowler.

Glenn, Charles W., assignee: *See*—
Wagner, Willard F.

Glenn, Howard J., Waukegan, and B. W. Horrom, Winthrop Harbor, assignors to Abbott Laboratories, North Chicago, Ill. 2-aminomethyl-tetrahydroacenaphthones-1 and their preparation. 2,589,934, Mar. 18.

Glenn, Peter F., Philadelphia, Pa. Film rewinding apparatus. 2,590,005, Mar. 18.

Goering, Charles, New York, N. Y. Weightless sliding and swinging sash construction. 2,589,799, Mar. 18.

Goldberg, Harry A., assignor to Standard Refrigeration Company, Chicago, Ill. Evaporator for household refrigerators. 2,589,490, Mar. 18.

Goldstein, Aaron A., assignor to Coat Craft Company, Philadelphia, Pa. Garment construction. 2,589,367, Mar. 18.

Goodale, Walter D., Jr., Summit, and W. H. Martin, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone signaling system. 2,589,800, Mar. 18.

Goodman Manufacturing Company, assignee: *See*—
Buckeridge, Roger M.

Goodrich, B. F., Company, The, assignee: *See*—
Schmidt, Richard F., Ardis, and Gilbert.

Goodstein, Charles B., New Rochelle, N. Y. Staple setting apparatus and method. 2,589,491, Mar. 18.

Goodwin, John T., Jr., and M. J. Hunter, assignors to Dow Corning Corporation, Midland, Mich. Modified siloxane-alkyd copolymers. 2,589,243, Mar. 18.

Gordon, Harry P., Rochester, Minn. Nasal tube holder. 2,590,006, Mar. 18.

Gould, Wallace E., assignor to Mueller Co., Decatur, Ill. Meter stop. 2,589,244, Mar. 18.

Governale, Luke J., J. H. Huguet, and C. M. Neher, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y. Photochemical chlorination process. 2,589,689, Mar. 18.

Graetz, William P., assignor to McAuley Manufacturing, Inc., Bremen, Ohio. Automatic poultry feeder. 2,589,690, Mar. 18.

Grafiex, Inc., assignee: *See*—
McMath, Marl.

Graham, Maxwell A., and C. H. Thompson, Fanwood, assignors to The Thomas & Betts Co., Elizabeth, N. J. Pigtail electric connector. 2,589,368, Mar. 18.

Graham, Russell C., Sierra Madre, Calif. Loading and distributing means for concrete mixers. 2,589,492, Mar. 18.

Granquist, Carl-Erik, Lidingo, assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo (near Stockholm), Sweden. Adjusting arrangement. 2,589,369, Mar. 18.

Graton & Knight Company, assignee: *See*—
Knight, Kenneth H.

Greenlee, Sylvan O., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Amide-epoxide compositions, etc. 2,589,245, Mar. 18.

Gregory Motors, Inc., assignee: *See*—
Quick, Frederick A.

Grennan, Alfred E., Benton, Kans. Wall mounted toolbox. 2,589,370, Mar. 18.

Gressel, Floyd C.: *See*—
Shultz, Frederick A., Gressel, Hobb, and Kroeger.

Griffin, Joseph F., Hammond, Ind., assignor, by mesne assignments, to American Throttle Company, Inc., New York, N. Y. Protective device for remote-control systems. 2,589,371, Mar. 18.

Griffon, Claudius, St.-Etienne, France. Hydropneumatic flush tank with float outlet valve. 2,589,691, Mar. 18.

Grimm, Harry H., Dayton, Ohio, assignor to the United States of America as represented by the Secretary of War. Oscillator. 2,589,246, Mar. 18.

Grindrod, George, Oconomowoc, Wis. Producing cacao-milk beverage material. 2,589,801, Mar. 18.

Grisanti, Amedeo, Mount Vernon, N. Y. Waist grip belt strap. 2,589,802, Mar. 18.

Griswold, Donald G., San Marino, Calif. Liquid proportioning and spraying apparatus. 2,590,007, Mar. 18.

Grothey, Ivan W., and R. H. Lawson, assignors to Scott & Williams, Incorporated, Laconia, N. H. Circular-knit multifeed stocking and making same. 2,590,008, Mar. 18.

Grover, L. Chace, assignee: *See*—
Blum, Hosmer L.

Guisti, Louis J., North Augusta, S. C., assignor of thirty-three and one-third per cent to I. S. Peebles, Jr., Augusta, and sixteen and two-thirds per cent to T. R. Burnside, Thomson, Ga. Spark plug installing and removing tool. 2,589,935, Mar. 18.

Gulf Research & Development Company, assignee: *See*—
Montgomery, Charles W., and Gilbert.

Guzzetti, Alfredo, and M. Almasso, Cordoba, Argentina. Pump operated recirculation washing machine. 2,589,247, Mar. 18.

Habicht, Conrad, Schaffhausen, Switzerland. Dispensing device for tablets and the like. 2,589,936, Mar. 18.

Haeff, Andrew V., and T. E. Hanley, Washington, D. C. Signal generator. 2,589,248, Mar. 18.

Häfliger, Franz, H. Martin, and R. Denss, assignors to J. R. Geigy A.-G., Basel, Switzerland. Manufacture of new basic esters of 1-aryl-cyclopentane-1-monothio-carboxylic acids. 2,589,937, Mar. 18.

Hake, Emil C., St. Louis, Mo. Folding chair. 2,589,372, Mar. 18.

Haley, Robert J., Longmeadow, Mass. Suspended work seat for dentists. 2,589,803, Mar. 18.

Halliburton Oil Well Cementing Company, assignee: *See*—
Morrisett, O. L.

Hamilton Manufacturing Company, assignee: *See*—
O'Neil, Charles S.

Hammock, Walter E., Garland, Tex. Adjustable choke for oil wells. 2,589,373, Mar. 18.

Hanley, Thure E.: *See*—
Haeff, Andrew V., and Hanley.

Hannon, Thomas H., Waterbury, Conn. Adjustable clothes hanger. 2,589,374, Mar. 18.

Hannum, John A., Detroit, Mich., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Propelling heavier-than-air devices powered by fuel-burning prime movers. 2,590,009, Mar. 18.

Hanovia Chemical and Mfg. Company, assignee: *See*—
Darney, Harold E.

Hanraban, Raymond L., Greenacres, Wash. Garage door. 2,589,938, Mar. 18.

Hanson-Van Winkle-Munning Company, assignee: *See*—
Kardos, Otto.

Hardtmuth, L. & C., Inc., assignee: *See*—
Zückert, Richard.

Hardy, René J., Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y. Direction and distance finding equipment. 2,589,249, Mar. 18.

Harless, Charles A., Riverside, and T. H. Johnson, Rowayton, Conn., assignors to R. Hoe & Co., Inc., New York, N. Y. Plate clamping mechanism. 2,590,010, Mar. 18.

Harlow, William B.: *See*—
Alvarez-Tostado, Claudio, and Harlow.

Harmsen, Carl L., Spokane, Wash. Wheeled carrier for outboard motors. 2,589,376, Mar. 18.

Harris, Eliot H., New York, N. Y. Ultrasonic generator. 2,589,375, Mar. 18.

Harris, John L., Whitefish Bay, and C. Hotchkiss, assignors to Perfex Corporation, Milwaukee, Wis. Internally fired safety pilot gas burner. 2,589,804, Mar. 18.

Harris-Seybold-Potter Company, assignee: *See*—
Wood, William H.

Hartford National Bank and Trust Company, The, trustee, assignee: *See*—
Broos, Henricus A.
Browne, Geoffrey D.
Hugenholtz, Eduard H.

Harvey, David N., Jr., assignor to Monticello Bobbin Company, Monticello, Ga. Skewer. 2,589,545, Mar. 18.

Hausner, Joseph M., Jr., Berwyn, Ill. Portable folding baby crib. 2,589,805, Mar. 18.

Haverkate, Gerrit H., Almelo, Netherlands. Pressing or ironing machine. 2,589,939, Mar. 18.

Hawkins, Jesse C., Legerwood, N. C. Hydraulically operated lift for tractors. 2,590,011, Mar. 18.

Hay, Colin B., San Jose, assignor of one-half to T. B. Keesling, Los Gatos, Calif. Coat-tree for passenger vehicles. 2,589,611, Mar. 18.

Hayek, Arthur F., Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated. Intermittent movement. 2,589,940, Mar. 18.

Hazeltine Research, Inc., assignee: *See*—
Hirsch, Charles J.

Hedgepeth, Hiawatha J., assignee: *See*—
Rainwater, John E.

Heenan, Robert C., Springfield, Mass. Short round device. 2,589,250, Mar. 18.

Heil Co., The, assignee: *See*—
McCabe, John B.

Heinz, Winfield B., Bound Brook, N. J., assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa. Fluid operated measuring or control apparatus. 2,589,251, Mar. 18.

Hemminger, Charles E.: *See*—
Cain, Virginia L., and Hemminger.

Henderson, Lawrence M.: *See*—
Woerts, Byron B., Henderson, and Ridgway.

Hene, Derek H., administrator: *See*—
Hene, Emil.

Hene, Else, administrator: *See*—
Hene, Emil.

Hene, Emil, deceased, by The Stamford Trust Company, Stamford, Conn.; E. and D. H. Hene, administrators, assignors to Usewood Corporation, New York, N. Y. Molding compositions from cellulose, formaldehyde, hydrocarbon, and alkali. 2,589,941, Mar. 18.

Henecka, Hans, Wuppertal-Elberfeld, Germany, assignor to Schenley Laboratories, Inc., New York, N. Y. Hydroxyphenyl-cinnamic nitriles and process. 2,589,377, Mar. 18.

Henecka, Hans, Wuppertal-Elberfeld, Germany, assignor to Schenley Laboratories, Inc., New York, N. Y. Phenyl-piperidino-coumarans. 2,589,378, Mar. 18.

Henrich, Richard E.: *See*—
O'Connor, Bernard E., and Henrich.

Henricksen, Harold E., assignor to Scovill Manufacturing Company, Waterbury, Conn. Locking device for foot presses. 2,589,692, Mar. 18.

Henry, William J., Jr., Knoxville, Tenn. Sliding door. 2,589,493, Mar. 18.

Herbener, Henry M., Thomasville, Ga. Folder for bills or the like and pocket construction. 2,589,546, Mar. 18.

Herbert, Alfred, Limited, assignee: *See*—
Lloyd, Arthur H.

Hercules Fasteners, Inc., assignee: *See*—
Frank, Joseph J., and Macy.

Hercules Powder Company, assignee: *See*—
Drew, John, and Funderburk.

Heritage, Clark C., Cloquet, Minn., and W. G. Van Beckum, assignors to Weyerhaeuser Timber Company, Longview, Wash. Metal recovery. 2,589,252, Mar. 18.

Herring-Hall-Marvin Safe Company, assignee: *See*—
Belew, Leland W.

Herrington, Bert L., deceased; by L. A. Herrington, administratrix, Klamath Falls, Oreg. Fish gaff. 2,589,612, Mar. 18.

Herrington, Lillie A., administratrix: *See*—
Herrington, Bert L.

Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Stabilizing method and system utilizing nuclear precession. 2,589,494, Mar. 18.

Hervert, George L., Berwyn, and H. S. Bloch, assignors to Universal Oil Products Company, Chicago, Ill. Alkylation of aromatic compounds. 2,589,253, Mar. 18.

Herzog, Carl, Niederurnen, assignor to Eternit A.-G., Niederurnen, Glarus, Switzerland. Process and device for the manufacture of corrugated sheets of asbestos cement. 2,589,379, Mar. 18.

Hess, Alexander M., Jamaica, N. Y. Screw cap remover. 2,589,693, Mar. 18.

Hess, Frederic O., Philadelphia, and J. Kniveton, Wyncote, assignors to Selas Corporation of America, Philadelphia, Pa. Apparatus for hardening rolls. 2,589,495, Mar. 18.

Hess, Howard V., Beacon, G. B. Arnold, Glenham, and J. K. Truitt, Beacon, assignors to The Texas Company, New York, N. Y. Separating normal aliphatic hydrocarbons from organic mixtures thereof. 2,589,380, Mar. 18.

Heyl, Frederick W.: *See*—
Spero, George B., Levin, and Heyl.

Hickman, Clarence N., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selective signaling system. 2,589,806, Mar. 18.

Hicks, William W., assignor to Ionics, Inc., San Francisco, Calif. Ion controller. 2,589,613, Mar. 18.

Higgins, John, and N. Fiorella, assignors to Illini Whipper Co., Chicago, Ill. Machine for whipping candy batches. 2,589,381, Mar. 18.

Higinbotham, William A., Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electrical integration circuit. 2,589,807, Mar. 18.

Hill, Ralph H., Flint, Mich. Fluid pressure clutch-actuating means for motor vehicles. 2,590,012, Mar. 18.

Hines, Albert R., Columbus, Ga. Dumping wheelbarrow. 2,589,694, Mar. 18.

Hirsch, Charles J., Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Transpondor system. 2,589,808, Mar. 18.

Hobb, Oscar J.: *See*—
Shultz, Frederick A., Gressel, Hobb, and Kroeger.

Hobbs, Dorothy D.: *See*—
Hobbs, H. Von and D. D.

Hobbs, H. Von and D. D., Crown Point, Ind. Educational device. 2,589,695, Mar. 18.

Hoch, Paul E., and W. H. Libby, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Fluorescent agents. 2,589,519, Mar. 18.

Hodaly, Emerick, Detroit, Mich. Safety door latch for vehicles. 2,589,809, Mar. 18.

Hoe, R., & Co., Inc., assignee: *See*—
Harless, Charles A., and Johnson.

Hoeppner, Conrad H., Washington, D. C. Impulse delay apparatus. 2,589,254, Mar. 18.

Hoffmann-La Roche Inc., assignee: *See*—
Pecherer, Benjamin.

Hofmann, Albert: *See*—
Stoll, Arthur, Hofmann, Jucker, Petrzilka, Rutschmann, and Troxler.

Holcroft & Company, assignee: *See*—
Holcroft, Walter H.

Holcroft, Walter H., assignor to Holcroft & Company, Detroit, Mich. Preparing gas atmosphere. 2,589,810, Mar. 18.

Holcroft, Walter H., assignor to Holcroft & Company, Detroit, Mich. Gas atmosphere generating means for heat-treating furnaces. 2,589,811, Mar. 18.

Holmes, Louis D., Blue Island, assignor to Whiting Corporation, Harvey, Ill. Two-way car washer of the rotary power-driven brush type. 2,589,255, Mar. 18.

Holmes, Otis M., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Guard for sewing machines. 2,589,382, Mar. 18.

Holt, Raymond B., Alhambra, Calif. Filing apparatus. 2,589,383, Mar. 18.

Hook, Edwin O.: *See*—
Cook, Elmer W., Moss, and Hook.

Hopkins, Neil E., assignor to York Corporation, York, Pa. Reversible heat pump cycle with means for adjusting the effective charge. 2,589,384, Mar. 18.

Horning, Harold R., assignor to The Jaeger Machine Company, Columbus, Ohio. Road-paving machine. 2,589,256, Mar. 18.

Horning, Harold R., assignor to The Jaeger Machine Company, Columbus, Ohio. Road-finishing machine. 2,589,257, Mar. 18.

Hornung, Stephen A.: *See*—
Glaser, William F., and Hornung.

Horrom, Bruce W.: *See*—
Glenn, Howard J., and Horrom.

Horsky, Nicholas G., Johnson City, assignor to General Aniline & Film Corporation, New York, N. Y. Making motion-picture film. 2,589,696, Mar. 18.

Horton Manufacturing Company, assignee: *See*—
Bradley, William H.

Hoskins, Maxwell D., Denver, Colo. Work progress board. 2,589,812, Mar. 18.

Hotchkiss, Clifford: *See*—
Harris, John L., and Hotchkiss.

Houdaille-Hershey Corporation, assignee: *See*—
Chisholm, Harry L., Jr., Farrell, and O'Connor.
O'Connor, Bernard E., and Henrich.

Hövel, Josef, Koln-Bruck, assignor to Klockner-Humboldt-Deutz A. G., Koln a. Rhein, Germany. Centrifugal regulator for automatically controlling the action moment of apparatus of variable rotating speed. 2,589,496, Mar. 18.

Howard, Edward G., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrazobisalkanesulfonate polymerization catalyst for ethylenically unsaturated monomers. 2,589,258, Mar. 18.

Howard, Giles P. E.: *See*—
Ivanoff, Alexander, and Howard.

Howrey, Harold C., Estacada, Oreg. Animal trap. 2,589,385, Mar. 18.

Hruby, John O., Jr., Glendale, Calif. Nozzle. 2,589,942, Mar. 18.

Huffman, Charles E., Upper Montclair, assignor to Allen B. Dumont Laboratories, Inc., Passaic, N. J. Pickup device for color television. 2,589,386, Mar. 18.

Hugenholtz, Eduard H., Eindhoven, Netherlends, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for automatic frequency-correction. 2,589,387, Mar. 18.

Hughes, Arthur V., and L. B. Rademacher, Sharon, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Water trip switch. 2,589,547, Mar. 18.

Huguet, James H.: *See*—
Governale, Luke J., Huguet, and Neher.

Hulland, Hubert L.: *See*—
Wood, William S., Clennett, and Hulland.

Hullegård, Erik W., assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Telephone switch utilizing a multielectrode gaseous discharge tube. 2,589,697, Mar. 18.

Hulsizer, Robert I., Jr., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna positioning system. 2,589,813, Mar. 18.

Hunter, Cora H., San Diego, Calif. Suppository injector. 2,589,388, Mar. 18.

Hunter, Melvin J.: *See*—
Goodwin, John T., Jr., and Hunter.

Huntzicker, Harry N., and J. K. Wise, Evanston, assignors to United States Gypsum Company, Chicago, Ill. Plasterboard, scuff resistant paper liner, and process. 2,590,013, Mar. 18.

Huron Portland Cement Company, assignee: *See*—
Schemm, Henry R.

Hurst, Thomas M., Rock Hill, S. C., assignor to Celanese Corporation of America. Yarn package support. 2,589,389, Mar. 18.

Hurt, Victor H., Cranston, R. I., assignor to United States Rubber Company, New York, N. Y. Vulcanizing unit. 2,589,390, Mar. 18.

Hutchinson, Clyde A., Jr., and J. S. Smith, New York, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission. Boron chloride production from an alloy of boron with tantalum. 2,589,391, Mar. 18.

Hydrocarbon Research, Inc., assignee: *See*—
Keith, Percival C.

Ilini Whipper Co., assignee: *See*—
Higgins, John, and Fiorella.

Illinois Tool Works, assignee: *See*—
Zamis, Anthony F.

Imbert, Roger J., assignor to Societe Rateau (Societe Anonyme), Paris, France. Jet propulsion plant. 2,589,548, Mar. 18.

Imhof, Herman A., Beverly, Mass, assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for use in the manufacture of shoes. 2,589,392, Mar. 18.

Imperial Chemical Industries Limited, assignee: *See*—
Edge, Herbert A.
Taylor, James, and Whetstone.
Zenftman, Henryk, and Forlin.

Indian Sales Corporation, assignee: *See*—
Bergsma, Clarence J.

International Hardware Manufacturing Company, assignee: *See*—
Brownie, Rex S.

International Harvester Company, assignee: *See*—
Miller, Delbert M.
Mott, Carl W.
Orelind, John R., and Mott.
Peterson, Raymond E.
Toland, Wayne G.
Turnbull, Glen O.

International Paper Box Machine Company, The, assignee: *See*—
Labombarde, Harold S.

International Standard Electric Corporation, assignee: *See*—
Earp, Charles W.
Hardy, René J.
Lens, Georges X.

International Standard Electric Corporation, assignee: *See*—
Tournier, Marcel.

Interstate Latex Company, assignee: *See*—
Sourbeck, Randall M.

Ionics, Inc., assignee: *See*—
Hicks, William W.

Ireland, Murray, assignor to McGraw Electric Company, Elgin, Ill. Construction for electric heaters for flexing bars. 2,589,614, Mar. 18.

Isely, Frank C., Washington, D. C. Radio-frequency circuit. 2,589,259, Mar. 18.

Ivanoff, Alexander, and G. P. E. Howard, Luton, England. Piston and independently operated distributing valve for reciprocating piston engines. 2,590,014, Mar. 18.

Ivers-Lee Company, assignee: *See*—
Salisberg, Leroy L.

Iwashita, George K., Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill. Two temperature refrigerator. 2,589,549, Mar. 18.

Iwashita, George K., Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill. Two temperature refrigerator. 2,589,550, Mar. 18.

Iwashita, George K., Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill. Two temperature refrigerator. 2,589,551, Mar. 18.

Jablon, Theodore M., New York, N. Y. Key chain. 2,589,260, Mar. 18.

Jackson, David, and J. Thomson, assignors to Mavor & Coulson, Limited, Glasgow, Scotland. Chute for the delivery of material such as coal. 2,589,814, Mar. 18.

Jackson, Solomon N., Georgetown, Tex. Boat oar. 2,589,698, Mar. 18.

Jacobs, Ellis H., assignee: *See*—
Miller, Joseph J.

Jacobson, James H., Chicago, Ill. Joint for concrete slabs. 2,589,815, Mar. 18.

Jaeger Machine Company, The, assignee: *See*—
Horning, Harold R.

James, Charles C., Los Angeles, Calif. Supporting means for articles such as typewriters and sewing machines. 2,589,393, Mar. 18.

Jarmotz, Paul, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Balanced series loop sine wave oscillator. 2,589,816, Mar. 18.

Jarvis, Leonard H., assignee: *See*—
Kerr, Homer V.

Jefferson Chemical Company, Inc., assignee: *See*—
Agapetus, Napoleon A., Reese and Scoville.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.

Jennett, Henry, assignee: *See*—
Mittelmann, Eugene.

Jenks, Harry N., Palo Alto, Calif. Mixing system. 2,589,261, Mar. 18.

Jensen, Kai Arne, assignor to Aktieselskabet "Ferrosan," Copenhagen, Denmark. 4-aryl-4-acyl-oxy-piperidines. 2,589,943, Mar. 18.

Jette, Louis, Shawinigan Falls, Quebec, Canada. Luggage carrier for bicycles. 2,589,497, Mar. 18.

Johnson, Albert R., Springfield, Mass. Outside cover for cabinets and other objects. 2,589,699, Mar. 18.

Johnson, Thomas H.: *See*—
Harless, Charles A., and Johnson.

Johnstone, Harold G., Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Electric cable sheathing. 2,589,700, Mar. 18.

Joy, Joseph F., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Flexible metal compounds. 2,589,394, Mar. 18.

Joy Manufacturing Company, assignee: *See*—
Ball, Charles F.
Dudley, Victor I.
Joy, Joseph F.

Jucker, Ernst: *See*—
Stoll, Arthur, Hofmann, Jucker, Petrzilka, Rutschmann, and Troxler.

Kaiser Aluminum & Chemical Corporation, assignee: *See*—
Smith, Arthur D.

Kanard, Louis E., Russell, Kans. Positive cutout switch. 2,589,395, Mar. 18.

Kaplan, Nathan, Atlanta, Ga. Fish conveyor. 2,589,701, Mar. 18.

Kardos, Otto, Leonardo, assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Dithiocarbamate-aldehyde condensation polymers. 2,589,209, Mar. 18.

Karlen, Harvey R.: *See*—
Crossley, Charles N., Fagan, Karlen, and Peters.

Katzman, Max, Brooklyn, N. Y. Vaporizer carrier. 2,589,817, Mar. 18.

Keesling, Thomas B., assignee: *See*—
Hay, Colin B.

Keith, Percival C., Peapack, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Heat exchanger. 2,589,262, Mar. 18.

Keller, M. F., assignee: *See*—
Neth, Frederick G., and Templeman.

Kellogg, M. W., Company, The, assignee: *See*—
Borcherding, Walter H.

Kelly, Henry W., Columbus, Ohio. Floor furnace with removable heating unit. 2,589,702, Mar. 18.

Kennedy, Bert, Johnstown, N. Y. Glove. 2,590,015, Mar. 18.

Kenney, Joseph F., assignor to Remington Arms Company, Inc., Bridgeport, Conn. Lead styphnate and manufacturing same. 2,589,703, Mar. 18.

Kenosian, Harry, Chelsea, Mass. Meter. 2,589,263, Mar. 18.

Kensel, Robert G., Barrington, Ill. Desk pad holder. 2,589,396, Mar. 18.

Kerr, Homer V., assignor of 50 per cent to L. H. Jarvis, Clarksburg, W. Va. Valve spring compressor and tension tester. 2,589,552, Mar. 18.

Kesselring, Ammon, Dover, Del. Safety attachment for cutter bars. 2,589,553, Mar. 18.

Kestral Corporation, assignee: *See*—
Marsh, Frederick W.

Kiefer, William R., assignee: *See*—
Tompkins, John E.

Killian, Jennings B., Portland, Oreg. Saw guide for portable power-driven hand-operated circular saws. 2,589,554, Mar. 18.

King, Ronald W. P., Winchester, Mass., assignor to United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development. Antenna. 2,589,818, Mar. 18.

King, William A., and A. J. Bailey, Atlanta, Ga. Horizontal forced air flow air-heating furnace. 2,589,555, Mar. 18.

Kinne, Edmund P., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Draft connection. 2,589,264, Mar. 18.

Kipper, Allen F., Glendale, assignor to Arden Farms Co., Los Angeles, Calif. Mixing machine. 2,589,615, Mar. 18.

Kirkpatrick, William E., Chatham, and R. W. Sears, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Semiconductor signal translating device. 2,589,704, Mar. 18.

Kistler, Samuel S., West Boylston, Mass. Treatment of aerogels to render them waterproof. 2,589,705, Mar. 18.

Kitson, Charles H.: *See*—
Kitson, Gerald L. and C. H.

Kitson, Gerald L. and C. H., Rockford, Mich., assignors, by mesne assignments, of one-half to themselves and L. Kitson, jointly, with full rights of survivorship, and one-half to N. Cordis, Chicago, Ill. Chain distributor type poultry feeding device. 2,589,706, Mar. 18.

Kitson, Leon, assignee: *See*—
Kitson, Gerald L. and C. H.

Kitterman, Donald M., Kansas City, Kans. Finishing machine for elongated tapered articles. 2,589,616, Mar. 18.

Kjeruiff, Anton P., Lake Charles, La. Rotary cutter head for sewer rods. 2,589,556, Mar. 18.

Klassen, John H., Inman, Kans. Hand-propelled hydraulic lifting truck. 2,590,016, Mar. 18.

Klausmann, Milton H., Maplewood, assignor to Seal-Spout Corporation, Newark, N. J. Combined sifting and pouring spout. 2,589,819, Mar. 18.

Klockner-Humboldt-Deutz A. G., assignee: *See*—
Hövel, Josef.

Kneitel, Seymour, New York, N. Y., assignor, by mesne assignments, to Paramount Pictures Corporation. Apparatus for fixing relative positions of members photographed on motion-picture film. 2,589,825, Mar. 18.

Knight, Harold E., Jr.: *See*—
Sprinkel, Robert B., Umstott, and Knight.

Knight, Kenneth H., assignor to Graton & Knight Company, Worcester, Mass. Fluid seal packing. 2,590,017, Mar. 18.

Kniveton, James: *See*—
Hess, Frederic O., and Kniveton.

Koehler, Louis W., Santa Rosa, Calif. Electronic discharge tube with a plurality of plate-grid systems. 2,589,397, Mar. 18.

Koller, Lewis R., and F. E. Williams, Schenectady, N. Y., assignors to General Electric Company. Production of colored images. 2,590,018, Mar. 18.

Konchan, Anton W., Berwyn, Ill. Shock absorber link. 2,589,820, Mar. 18.

Koppers Company, Inc., assignee: *See*—
Drake, John W.
Lavely, Paul H.
Rhodes, Philip H.
Schwertz, Frederick A.

Kornblum, Sidney, Brooklyn, N. Y. Zinc base casting alloys and alloying. 2,589,398, Mar. 18.

Kornblum, Sidney, Brooklyn, N. Y. Zinc base casting alloys. 2,589,399, Mar. 18.

Korner, John, Pitman, N. J. Choline gallate and its preparation. 2,589,707, Mar. 18.

Korshak, Marvin S., San Jose, Calif. Reed holder. 2,589,821, Mar. 18.

Koster, Frederick W., Wallingford, Pa., and L. A. Oberly, Twinsburg, Ohio, assignors to American Viscose Corporation, Wilmington, Del. Drying apparatus. 2,589,400, Mar. 18.

Koster, Margaret R., Brooklyn, N. Y. Safety garment. 2,589,708, Mar. 18.

Kostka, Charles, Bronx, N. Y. Angle gear-transmission coupling for rotary tools. 2,589,822, Mar. 18.

Kowalski, Alfred C., Fresno, Calif. Pulse amplitude-modulation communication system. 2,589,617, Mar. 18.

Krahulec, Fred, Skokie, Ill., assignor to A. C. Nielsen Company. Torque testing and calibrating device. 2,589,401, Mar. 18.

Kralinator Products Limited, assignee: *See*—
Beckett, Ronald C.

Krens, Charles A., Staten Island, N. Y. Baked confection and mold for same. 2,589,823, Mar. 18.

Kroeger, Gustav H.: *See*—
Shultz, Frederick A., Gressel, Hobb, and Kroeger.

Kropa, Edward L., Old Greenwich, and J. J. Padbury, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Chlorofluorocarbon and making the same. 2,590,019, Mar. 18.

Kropp Forge Company, assignee: *See*—
Kropp, Roy A.

Kropp, Roy A., River Forest, assignor to Kropp Forge Company, Cicero, Ill. Hammer frame. 2,589,402, Mar. 18.

Kuipers, Gerard, The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Stereoplotting method and apparatus. 2,589,824, Mar. 18.

Kulczycki, Karol, and W. D. Lowe, Jersey City, assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Warp tension compensator. 2,589,498, Mar. 18.

Kurie, Franz N. D., La Jolla, Calif., assignor to United States of America as represented by the Secretary of the Navy. Transducer construction and method. 2,589,403, Mar. 18.

Kutsler, Robert J., and T. J. Wilson, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic pilot. 2,590,020, Mar. 18.

Lab, Leo H., Flint, Mich. Flooring jack. 2,589,404, Mar. 18.

Labombarde, Harold S., assignor to The International Paper Box Machine Company, Nashua, N. H. Machine for prebreaking, gluing, folding, delivering, and stacking creased carton blanks. 2,589,944, Mar. 18.

La Coste, Lucien, and A. Romberg, Austin, Tex. Force measuring device. 2,589,709, Mar. 18.

La Coste, Lucien J. B., and A. Romberg, Austin, Tex. Force measuring device. 2,589,710, Mar. 18.

Lacy, Lester Y., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Off-channel squelch circuit for radio receivers. 2,589,711, Mar. 18.

Lake, Varnall D., Oradell, N. J. Needle pulling thimble. 2,589,499, Mar. 18.

Lamb, Anthony H., Hillside, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Hygrometer of the wet and dry bulb thermometer type. 2,589,557, Mar. 18.

Lamoreaux, Frank, Newark, N. J. Stirrer. 2,589,558, Mar. 18.

Landis, Maurice N.: *See*—
Sims, Clarence E., and Landis.

Landon, Esther C., Seattle, Wash. Electrical drying device. 2,590,021, Mar. 18.

Landon, Robert K., Costa Mesa, and J. R. Thomson, Corona del Mar, assignors to Strait-Line Products, Costa Mesa, Calif. Combined chalk-line box and plumb bob. 2,589,500, Mar. 18.

Lang, Charles W., San Francisco, Calif. Latch. 2,589,405, Mar. 18.

Lang, Walter: *See*—
Nagel, John D., and Lang.

Langdon, Jesse D., Long Beach, Calif. Spud valve. 2,589,265, Mar. 18.

Langsenkamp, Robert M., Indianapolis, and J. M. Trimble, Lebanon, assignors to The Langsenkamp-Wheeler Brass Works, Inc., Indianapolis, Ind. Flow line sampler. 2,589,712, Mar. 18.

Langsenkamp-Wheeler Brass Works, Inc., The, assignee: *See*—
Langsenkamp, Robert M., and Trimble.

La Porte Chemicals Limited, assignee: *See*—
Wood, William S., Clennett, and Hulland.

"La Radio Industrie" S. A., assignee: *See*—
De France, Henri G., and Ernyei.

Larkin, Thomas E., Schenectady, N. Y., assignor to General Electric Company. Control device. 2,590,022, Mar. 18.

Larsen, Agnew E., New Britain, Pa., assignor to The Glenn L. Martin Company, Middle River, Md. Epicyclic helicopter rotor system. 2,589,826, Mar. 18.

Larson, Wesley S.: *See*—
Richardson, Henry M., and Larson.

La Salle Steel Co., assignee: *See*—
Sims, Clarence E., and Landis.

Latham, Allen, Jr., Jamaica Plain, assignor to Arthur D. Little, Inc., Cambridge, Mass. Distillation apparatus and method. 2,589,406, Mar. 18.

Laughter, D. Robert, trustee, assignee: *See*—
Noodleman, Samuel.

Lavely, Paul H., Pittsburgh, Pa., assignor to Koppers Company, Inc. Automatic interlock for pusher machines and coke guide machines. 2,589,266, Mar. 18.

Lawrence, Roger C., Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for continuously making vulcanized articles. 2,589,713, Mar. 18.

Lawson, Robert H.: *See*—
Grothey, Ivan W., and Lawson.

Leahy, James F.: *See*—
Ashley, John W., and Leahy.

Lear, Incorporated, assignee: *See*—
Minorsky, Nicholas.

Learned, Charles H., Carmel, Calif. Mirror signaling device. 2,589,618, Mar. 18.

Lebeda, Paul A., Cedar Rapids, Iowa. Fuel nozzle. 2,589,559, Mar. 18.

Le Boeuf, Oscar J., Gary, Ind. Egg breaker and separator. 2,589,408, Mar. 18.

Leduc, René, Toulouse, France. Athodyd having air permeable converging intake section for boundary layer controls. 2,589,945, Mar. 18.

Lee, Arthur L., Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Loading machine. 2,589,827, Mar. 18.

Lee, Hilliard O., Kansas City, Kans. Electrical water gauge. 2,589,714, Mar. 18.

Lee, Joseph O., West Allis, Wis. Paint applicator with a pair of rollers exterior of their paint supply receptacle. 2,589,407, Mar. 18.

Leeds, Morton W.: *See*—
Smith, Gilbert B. L., and Leeds.

Leef, John H., Minneapolis, Minn. Attachment for laundry machines. 2,589,619, Mar. 18.

Leete, William T., Nichols, assignor to E. W. Carpenter Manufacturing Company, Bridgeport, Conn. Vehicle directional signal system. 2,589,410, Mar. 18.

Leffel, Guy H., assignor to The Thompson Grinder Company, Springfield, Ohio. Apparatus for cleaning dressing, and grinding wheels. 2,589,620, Mar. 18.

Leichter, William J., Bronx, N. Y. Blouse. 2,589,409, Mar. 18.

Lenarduzzi, Lino, Washington, D. C. Tile cutter. 2,589,501, Mar. 18.

Lens, Georges X., Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Selector mechanism. 2,589,267, Mar. 18.

Lervik, Alf, Oslo, Norway. Valve facing apparatus. 2,589,826, Mar. 18.

Less, Floyd R., North Tonawanda, N. Y. Remote controlled toy ship. 2,589,268, Mar. 18.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Earth compacting roller implement. 2,589,829, Mar. 18.

Leutner, Frederick S.: *See*—
Flory, Paul J., and Leutner.

Levin, Robert H.: *See*—
Spero, George B., Levin, and Heyl.

Lewin, William H., New York, N. Y. Clutch and brake for motor drives. 2,589,830, Mar. 18.

Lewis, Ernest E., Scotia, and R. E. Thorn, Schenectady, N. Y., assignors to General Electric Company. System for paralleling electric alternators. 2,590,023, Mar. 18.

Libby, William H.: *See*—
Hoch, Paul E., and Libby.

Lieberman, Edgar M., Jackson County, Mo. Making pinking scissors. 2,590,024, Mar. 18.

Liechti, Albert, Zurich, assignor to Micafil A. G., Zurich-Altstetten, Switzerland. Electrical condenser. 2,589,831, Mar. 18.

Lien, Arthur P., Hammond, Ind., and D. A. McCaulay, assignors to Standard Oil Company, Chicago, Ill. Mesitylene manufacture. 2,589,621, Mar. 18.

Lindsay, Alexander R., Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa. Self-supporting automobile structure and wheel supporting beam secured by vertical bolts. 2,590,025, Mar. 18.

Linn, William J., Pittsburgh, Pa. Liquid fuel atomizer. 2,589,946, Mar. 18.

Lister, R. A., & Company Limited, assignee: *See*—
Morris, Alberto J.

Little, Arthur D., Inc., assignee: *See*—
Latham, Allen, Jr.

Lloyd, Arthur H., assignor to Alfred Herbert Limited, Coventry, England. Roller bearing. 2,589,560, Mar. 18.

Lockwood Manufacturing Company, The, assignee: *See*—
Darnell, Jesse L.

Loewenstein, Delia D., Kearney, Nebr. Hair curler. 2,589,832, Mar. 18.

Long, Richard H.: *See*—
Thomas, Thomas H., Price, and Long.

Longmire, Conrad L., Boston, and I. H. Sudman, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Pulse discriminator circuit. 2,589,833, Mar. 18.

Lorentzen Hardware Mf'g. Corp., assignee: *See*—
Nelson, Harry.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Company. Continuous strand helical conveying apparatus. 2,589,411, Mar. 18.

Lowe, Walter D.: *See*—
Kulcsycki, Karol, and Lowe.

Lundgren, William E.: *See*—
Zabriskie, Arthur E., and Lundgren.

Lunger, Roscoe, assignee: *See*—
Ahlmeyer, Harvey.

Lurie, Hillis N.: *See*—
Galhouse, Leonard B., and Lurie.

Lurie, Joseph M., Lewiston, assignor to Bonafide Mills, Inc., Lisbon, Maine. Laminated sheet for use as a wall or floor covering. 2,589,502, Mar. 18.

Lysikowski, Carl A., Cleveland, Ohio. Trolling sinker. 2,589,715, Mar. 18.

MacCallum, Alan M., Maywood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Automatic steering system. 2,589,834, Mar. 18.

Macdonald, Lester S., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Lasting machine. 2,589,412, Mar. 18.

Mackechnie, James G., Jr., Springfield, Mass. Laundry sorting apparatus. 2,589,561, Mar. 18.

Macklanburg, Louis A., Oklahoma City, Okla. Sash balance. 2,589,413, Mar. 18.

Macy, James C.: *See*—
Frank, Joseph J., and Macy.

Magnuson, A., assignee: *See*—
Magnuson, Raymond A., and Christiansen.

Magnuson, R. A., assignee: *See*—
Magnuson, Raymond A., and Christiansen.

Magnuson, Raymond A., and N. M. Christiansen, assignors to R. A. and A. Maguuson, copartners doing business under the firm name of Vogel-Peterson Co., Chicago, Ill. Garment rack. 2,589,269, Mar. 18.

Magnuson, Raymond A., and N. M. Christiansen, assignors to R. A. and A. Magnuson, copartners doing business as Vogel-Peterson Co., Chicago, Ill. Garment rack. 2,589,947, Mar. 18.

Mahrt, Louis R., trustee, assignee: *See*—
Noodleman, Samuel.

Malachick, Joseph H., New York, N. Y. Sanitary dispenser for food boxes. 2,589,835, Mar. 18.

Mansell, Stanley W.: *See*—
Owner, Frank M., Mansell, and Marchant.

Marchant, Francis C. I.: *See*—
Owner, Frank M., Mansell, and Marchant.

Marks, Morris M., assignee: *See*—
Mellard, Prather O.

Marman Products Co., Inc., assignee: *See*—
Marx, Zeppo.

Marsh, Frederick W., assignor to Kestral Corporation, Springfield, Mass. Valve construction. 2,589,716, Mar. 18.

Marshall, Henry F., Walla Walla, Wash. Log or pipe transporter. 2,589,948, Mar. 18.

Marti, Fritz, La Chaux-de-Fonds, Switzerland. Device for fixing the outer end of a hairspring to the cock of timepieces. 2,589,717, Mar. 18.

Martin, Clyde M., Orange Cove, assignor of one-half to N. J. Buratovich and one-half to M. T. Buratovich, Dinuba, Calif. Stacking apparatus. 2,589,718, Mar. 18.

Martin, Edward J., Pleasant Ridge, Mich., and R. N. Frawley, El Monte, Calif., assignors to General Motors Corporation, Detroit, Mich. Radiant energy transmission and reflection analyzer with adjustable filter. 2,589,414, Mar. 18.

Martin, Glenn L., Company, The, assignee: *See*—
Costello, Joseph, and Price.
Engel, Harry C., Raab, and Pajak.
Larsen, Agnew E.

Martin, Henry: *See*—
Hänfiger, Franz, Martin, and Denss.

Martin, Josef, Munich, Germany. Ash removal device. 2,589,836, Mar. 18.

Martin, William H.: *See*—
Goodale, Walter D., Jr., and Martin.

Marx, Zeppo, Beverly Hills, assignor to Marman Products Co., Inc., Inglewood, Calif. Vapor delivery pad for distributing moist heat. 2,590,026, Mar. 18.

Maschinenfabrik Oerlikon, assignee: *See*—
Storsand, Bjarne.

Mathieson Chemical Corporation, assignee: *See*—
Schaeffer, Benjamin B.

Mavor & Coulson, Limited, assignee: *See*—
Jackson, David, and Thomson.

May, Anthony A., Decatur, Ga. Spring construction for cradles. 2,589,562, Mar. 18.

May, Joseph F.: *See*—
Strughold, Peter, and May.

Mayle, Louis F., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Electronic timing circuit. 2,589,270, Mar. 18.

McAlpine, Francis J. and M. L., Rowan, and R. E. L. Aldrich, Jr., Belmond, Iowa. Bale conveyor for rotary baler. 2,589,837, Mar. 18.

McAlpine, Melvin L.: *See*—
McAlpine, Francis J. and M. L., and Aldrich.

McAuley Manufacturing, Inc., assignee: *See*—
Graetz, William P.

McBee Company, The, assignee: *See*—
Feiertag, Arthur W.

McCabe, John B., assignor to The Heil Co., Milwaukee, Wis. Self-venting valve. 2,589,622, Mar. 18.

McCaulay, David A.: *See*—
Lien, Arthur P., and McCaulay.

McConnell, Robert A., Pittsburgh, Pa., assignor, by mesne assignments, to United States of America as represented by the Secretary of War. Single side band modulator. 2,589,838, Mar. 18.

McCullough, Paul J., assignor, by mesne assignments, to The Toastswell Company, Incorporated, St. Louis, Mo. Method and machine for winding electrical resistance units. 2,589,503, Mar. 18.

McCullough Tool Company, assignee: *See*—
Bond, John A., and Wiley.

McFerran, Joe W., Detroit, Mich. Multiple station game board. 2,589,839, Mar. 18.

McGee, Gerald W.: *See*—
Raymond, Roger S., and McGee.

McGinty, Daniel A., Grosse Pointe, assignor to Parke, Davis & Company, Detroit, Mich. Therapeutic compositions. 2,589,210, Mar. 18.

McGraw Electric Company, assignee: *See*—
Ireland, Murray.

McKinney, William M., Manteca, Calif. Leg assembly and connecting means for table tops. 2,589,719, Mar. 18.

McMath, Marl, Newport, Ky., assignor to Graflex, Inc., Rochester, N. Y. Electronic device. 2,589,720, Mar. 18.

McNaney, Joseph T., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Voltage indicating system. 2,589,721, Mar. 18.

Mead, Gideon R., Plattsburg, assignor to Pal Blade Co., Inc., New York, N. Y. Magazine for safety razor blades. 2,589,722, Mar. 18.

Meadors, Victor G., Tulsa, Okla., assignor to Standard Oil Development Company. Controlling drilling fluid viscosity. 2,589,949, Mar. 18.

Medina, Francisco S., and L. M. and A. M. Tey, Barcelona, Spain. Centrifugal molding machine. 2,589,950, Mar. 18.

Meier, Erwin, Neuewelt, near Basel, assignor to Ciba Limited, Basel, Switzerland. Printing of woolen textiles with a nonaqueous paste comprising a dyestuff containing an acid group, a water-insoluble vinyl polymer, and an acid-liberating agent. 2,589,951, Mar. 18.

Mellard, Prather O., Philadelphia, assignor of one-half to M. M. Marks, Oreland, Pa. Interval timer. 2,590,027, Mar. 18.

Meipar, Inc., assignee: *See*—
Tuller, William G.

Mercier, Robert E., Paris, France. Constructional toy element. 2,589,952, Mar. 18.

Merritt, Mortimer M., Santa Barbara, and J. W. Dadisman, San Diego, Calif., said Dadisman assignor to said Merritt. Mileage service indicator for motor vehicles. 2,589,623, Mar. 18.

Meshberg, Philip, Trumbull, Conn. Cocktail shaker. 2,589,415, Mar. 18.

Metal Carrier Corporation, assignee: *See*—
Nadolsky, Isaac, and Morehouse.
Stevenson, Ralph W.

Metzger, Leopold H.: *See*—
Fantozzi, Vincent J., and Metzger.

Meyer, Arthur E., Flushing, assignor to Fellows Medical Manufacturing Co., Inc., New York, N. Y. Preparing choline salts of bile acids. 2,589,840, Mar. 18.

Micafil A. G., assignee: *See*—
Liechti, Albert.

Mill-Mont Company, assignee: *See*—
Miller, Oliver S.

Miller, Delbert M., Davenport, Iowa, assignor to International Harvester Company. Corn snapping roll construction. 2,589,841, Mar. 18.

Miller, Edwin A., Fairfield, Conn. Longitudinally shiftable switch blade. 2,589,563, Mar. 18.

Miller, Frederick, Jr.: *See*—
Braun, Karl J., and Miller.

Miller, Harry W., Samoa, Calif. Collapsible vehicle body. 2,589,416, Mar. 18.

Miller, John M., Jr., Baltimore, assignor to Bendix Aviation Corporation, Towson, Md. Noise suppressor for audio circuits. 2,589,723, Mar. 18.

Miller, John V., Phoenix, Ariz. Gravity actuated door mounting. 2,590,028, Mar. 18.

Miller, Joseph J., assignor to P. A. Sussman and E. H. Jacobs, San Francisco, Calif. Rotary saw with swingable tension rollers. 2,589,624, Mar. 18.

Miller, Nicholas S., Chicago, Ill., assignor, by mesne assignments, to Cummins-Chicago Corp. Latch mechanism for perforator matrix elements. 2,589,271, Mar. 18.

Miller, Oliver S., Long Beach, assignor to Mill-Mont Company, Los Angeles, Calif. Protector for the lips and teeth. 2,589,504, Mar. 18.

Miller, Philip, New York, N. Y., assignor to Tennessee Valley Authority. Production of calcium metaphosphate. 2,589,272, Mar. 18.

Miller, Raymond S., Hollywood, Calif. Fruit press. 2,589,724, Mar. 18.

Miller, William S., assignor to The Calico Printers' Association Limited, Manchester, England. Dyeing of cellulosic textile materials by forming lakes of basic dyes in the fibers. 2,589,953, Mar. 18.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Baak, Albert E.
Kutzler, Robert J., and Wilson.

Minor, Edward E.: *See*—
Dougherty, Charles E., and Minor.

Minorsky, Nicholas, Bethesda, Md., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich. Torque amplifying system. 2,590,029, Mar. 18.

Minton, John, assignor of 50 per cent to K. V. Minton, Baton Rouge, La. Wrench having slidable side jaw actuated by pivoted handle. 2,589,565, Mar. 18.

Minton, Kenneth V., assignee: *See*—
Minton, John.

Mitchell, Malcolm, assignee: *See*—
Fallon, Eduardo.

Mittell, Carl E., Sumter, S. C., assignor of one-half to John Evans Manufacturing Company, Inc., and one-half to T. N. Busch, Mobile, Ala. Transportation assembly. 2,589,842, Mar. 18.

Mittelmann, Eugene, Chicago, Ill., assignor to H. Jenett, Montclair, N. J. Apparatus for heating and mixing plastic compositions. 2,589,417, Mar. 18.

Mitzeldfeld, Thomas H., and A. W. Zmuda, assignors to General Motors Corporation, Detroit, Mich. Valve rotating device. 2,589,418, Mar. 18.

Moncrieff, Leslie J., London, England, assignor to Celanese Corporation of America. Forming articles such as spectacle frames. 2,589,419, Mar. 18.

Mong, Edgar W., and W. O. Anderson, Los Angeles, Calif. Actuator for reciprocating well pumps. 2,589,420, Mar. 18.

Montgomery, Carol G., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Ultrahigh-frequency mixing circuits. 2,589,843, Mar. 18.

Montgomery, Charles W., and W. I. Gilbert, Oakmont, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Deoxygenating and isomerizing a Fischer-Tropsch stock. 2,589,273, Mar. 18.

Monticello Bobbin Company, assignee: *See*—
Harvey, David N., Jr.

Moore, Irving, Scotch Plains, N. J. Change-speed gearing multiple drive transmission. 2,589,844, Mar. 18.

Moore, Joseph A., Boone, Iowa. Garment hanger. 2,589,564, Mar. 18.

Moratta, Mathew M., Princeton, Ind. Piston ring. 2,589,274, Mar. 18.

Morehouse, Llewellyn D.: *See*—
Nadolsky, Isaac, and Morehouse.

Morgan Fairest Limited, assignee: *See*—
Fairest, Derek H.

Morris, Alberto J., assignor to R. A. Lister & Company Limited, Dursley, England. Pump injector for oil engines. 2,589,505, Mar. 18.

Morrisett, O. L., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Drillable packer. 2,589,506, Mar. 18.

Morrison, Montford, Upper Montclair, N. J. Luminous flux modulator. 2,589,421, Mar. 18.

Morse Chain Company, assignee: *See*—
Faber, Clarence M.

Morway, Arnold J.: *See*—
Smith, Paul V., Jr., and Morway.

Moss, Philip H.: *See*—
Cook, Elmer W., and Moss.
Cook, Elmer W., Moss, and Hook.

Motch & Merryweather Machinery Company, The, assignee: *See*—
Rose, Howard E.

Mott, Carl W.: *See*—
Orelind, John R., and Mott.

Mott, Carl W., La Grange, Ill., assignor to International Harvester Company. Hammer knife mower. 2,589,845, Mar. 18.

Mott, Carl W., Lake Ozark, Mo., assignor to International Harvester Company. Mower structure. 2,590,065, Mar. 18.

Mueller Co., assignee: *See*—
Gould, Wallace E.

Mullan, Joseph, Baltimore, Md. Key ejecting lock. 2,589,422, Mar. 18.

N. F. B. Displacement Pump Co. Limited, assignee: *See*—
Brown, Norman F.

Nadolsky, Isaac, Grand Rapids, and L. D. Morehouse, Marion, assignors, by mesne assignments, to Metal Carrier Corporation, Grand Rapids, Mich. Bottle carrier and handle for use therewith. 2,589,423 Mar. 18.

Nagel, John D., and W. Lang, Chicago, Ill.; said Lang assignor to said Nagel. Miniature bowling game and ash tray. 2,589,725, Mar. 18.

National Battery Company, assignee: *See*—
Dickover, Marion W.

National Cash Register Company, The, assignee: *See*—
Dudis, Charles G.

National Machinery Company, The, assignee: *See*—
Sanford, Robert E.

National Titanium Pigments Limited, assignee: *See*—
Richmond, James T., and Wigginton.

Naves, Yves-René, Geneva, Switzerland, assignor to The Givaudan Corporation. Preparation of 3-methyl-citrals. 2,589,275, Mar. 18.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Hughes, Arthur V., and Rademacher.
Kurie, Franz N. D.
Riblet, Henry J.
Soller, John T., and Starr.

Neher, Clarence M.: *See*—
Governale, Luke J., Huguet, and Neher.

Neier, Reinhard, and W. Wehrli, assignors to Sandoz Limited, Basel, Switzerland. Azo dyestuffs. 2,589,935, Mar. 18.

Neil, William P., Pasadena, Calif. Lifting apparatus. 2,589,954, Mar. 18.

Nelson, Harry, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind mechanism. 2,589,846, Mar. 18.

Nester, L. G., assignee: *See*—
Borneman, George.

Neth, Frederick G., and J. F. Templeman, assignors to M. F. Keller, Portland, Oreg. Electric water-heating system. 2,589,566, Mar. 18.

Netschert, Franz, Glendale, assignor to Technical Glass Company, Los Angeles, Calif. Apparatus for baking lacquer on metal articles. 2,589,424, Mar. 18.

Neufeld, Dietrich J., Buhler, Kans. Wire insulator holder. 2,589,726, Mar. 18.

New Britain Machine Company, The, assignee: *See*—
Pekrul, Arthur F.

New Jersey Zinc Company, The, assignee: *See*—
Schneider, Erwin L.
Weikel, John H.

Newman, Dave B.: *See*—
Newman, Hymie G. and D. B.

Newman, Hymie G. and D. B., Edmonton, Alberta, Canada. Lawn seed drill. 2,589,425, Mar. 18.

New York Air Brake Company, The, assignee: *See*—
Vroman, Erwin C.

Nickerson, Mortimer H., assignor to De Bell & Richardson, Inc., Springfield, Mass. Melamine formaldehyde scratch resistant coating composition, applying, and article produced thereby. 2,589,567, Mar. 18.

Nielsen, A. C., Company, assignee: *See*—
Krahulec, Fred.

Noelting, William H., and J. A. Skupas, assignors to Faultless Caster Corporation, Evansville, Ind. Caster. 2,589,847, Mar. 18.

Noodleman, Samuel, assignor to L. R. Mahrt and D. R. Laughter, as trustees for Standard Dayton Corporation, Dayton, Ohio. Motor control system. 2,589,276, Mar. 18.

Noodleman, Samuel, assignor to L. R. Mahrt and D. R. Laughter, as trustees for Standard Dayton Corporation, Dayton, Ohio. Motor control system. 2,589,277, Mar. 18.

Noodleman, Samuel, assignor to L. R. Mahrt and D. R. Laughter, as trustees for the Standard Dayton Corporation, Dayton, Ohio. Motor control system. 2,589,278, Mar. 18.

Noodleman, Samuel, assignor to L. R. Mahrt and D. R. Laughter, as trustees for the Standard Dayton Corporation, Dayton, Ohio. Speed respective plugging for electric motors. 2,589,279, Mar. 18.

North American Aviation, Inc., assignee: *See*—
Cunningham, Gale C., and Weldon.
Raymond, Roger S., and McGee.

North American Paper Process Company, Inc., assignee: *See*—
Snowman, Paul A., Jr.

Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co. Inc., New York, N. Y. Blur preventing means for rotary envelope printing mechanism. 2,589,848, Mar. 18.

Noyes, Maxwell E., assignor to Aluminum Company of America, Pittsburgh, Pa. Expanded electrical transmission cable. 2,589,507, Mar. 18.

Nutt, Harold, and H. V. Reed, assignors to Borg-Warner Corporation, Chicago, Ill. Clutch plate. 2,589,508, Mar. 18.

Oberly, Louis A.: *See*—
Koster, Frederick W., and Oberly.

Oberright, Edward A., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Organic phosphorus ester-P_2S_5 reaction products and oil compositions containing the same. 2,589,326, Mar. 18.

Obert, Charles F., Detroit, Mich. Ironing board rail. 2,590,030, Mar. 18.

Ocaña, Manuel M., assignor to Sociedad Anónima de Aplicaciones Sanitarias, Madrid, Spain. Rectangular bath fixture. 2,589,280, Mar. 18.

Ocaña, Manuel M., assignor to Sociedad Anónima de Aplicaciones Sanitarias, Madrid, Spain. Combined shower bath, foot bath, and bidet apparatus. 2,589,281, Mar. 18.

Ocaña, Manuel M., assignor to Sociedad Anónima de Aplicaciones Sanitarias, Madrid, Spain. Multipurpose bath apparatus. 2,589,592, Mar. 18.

O'Connor, Bernard E.: *See*—
Chisholm, Harry L., Jr., Farrell, and O'Connor.

O'Connor, Bernard E., Buffalo, and R. E. Henrich, Kenmore, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich. Rectilinear fluid shock absorber. 2,589,282, Mar. 18.

Oetiker, Hans, Horgen, Switzerland. Punching machine. 2,589,849, Mar. 18.

"Office National d'Etudes et de Recherches Aeronautiques" (O. N. E. R. A.), assignee: *See*—
Rivière, Henri.

Office of Scientific Research and Development, United States of America as represented by the Executive Secretary of the, assignee: *See*—
King, Ronald W. P.

Ogle, Robert W., Pasadena, Calif. Injector. 2,589,426, Mar. 18.

O'Grady, Joseph V., West Caldwell, assignor to Syncro Machine Company, Perth Amboy, N. J. Wire annealing machine. 2,589,283, Mar. 18.

Oil Center Tool Company, assignee: *See*—
Eckel, John E., and Richard.

Olier, André J. P., Laure, assignor to Societe Anonyme des Etablissements A. Olier, Clermont-Ferrand, France. Diffusion apparatus. 2,589,568, Mar. 18.

O'Neil, Charles S., assignor to Hamilton Manufacturing Company, Two Rivers, Wis. Drier. 2,589,284, Mar. 18.

Orelind, John R., Wilmette, and C. W. Mott, La Grange, Ill., assignors to International Harvester Company. Control valve for telemotor type hydraulic power lift. 2,589,850, Mar. 18.

Orkin, Bernard A.: *See*—
Richter, Frederick P., and Orkin.

Orpin, Lionel H., Greece, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Pulse length discriminator. 2,589,851, Mar. 18.

Orr Felt Blanket Company, The, assignee: *See*—
Berglund, Orion W.

Ossmann, Charles, Madison, Wis. Salt box for animals. 2,589,427, Mar. 18.

Otis Elevator Company, assignee: *See*—
Glaser, William F., and Hornung.

Overacker, Horace E., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Mechanical tracking device. 2,589,852, Mar. 18.

Owner, Frank M., S. W. Mansell, and F. C. I. Marchant, assignors to The Bristol Aeroplane Company Limited, Bristol, England. Aircraft power plant having two or more gas turbine power units to drive one or more airscrews in various combinations. 2,589,853, Mar. 18.

Ozarowski, Walter P., Devon, Conn. Windshield wiper. 2,589,854, Mar. 18.

Pabst Brewing Company, assignee: *See*—
Rue, Harold E., and Tigerman.

Pabst, Richard E., San Antonio, Tex. Low-temperature defrosting system. 2,589,855, Mar. 18.

Padbury, John J.: *See*—
Kropa, Edward L., and Padbury.

Pajak, Theodore: *See*—
Engel, Harry C., Raab, and Pajak.

Pal Blade Co., Inc., assignee: *See*—
Mead, Gideon R.

Pan American Refining Corporation, assignee: *See*—
Wadsworth, Francis T.

Panteleieff, Maxim, New York, N. Y. Smoke separator. 2,589,956, Mar. 18.

Paramount Pictures Corporation, assignee: *See*—
Kneitel, Seymour.

Parke, Davis & Company, assignee: *See*—
McGinty, Daniel A.

Parke, Davis & Company, assignee: *See*—
Rawlins, Albert L.

Parker, Louis W., Jackson Heights, assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y. Communication system. 2,589,285, Mar. 18.

Pastore, Alfredo: *See*—
Ratner, Edith, and Pastore.

Patterson, W. W., administrator: *See*—
Stuits, Johnny G. W.

Pattinson, Reginald L., Aylmer, Ontario, Canada. Storing gases or liquids. 2,590,066, Mar. 18.

Paul, Clifton J., Del Paso Heights, Calif. Corn roaster. 2,589,625, Mar. 18.

Paul, Clifton J., Del Paso Heights, Calif. Roaster. 2,589,626, Mar. 18.

Pearce Development Company, assignee: *See*—
Pearce, Lewis C.

Pearce, Lewis C., Berea, assignor to Pearce Development Company, Cleveland, Ohio. Collating machine. 2,589,428, Mar. 18.

Pearman, Fred: *See*—
Pearman, Lawrence and F.

Pearman, Lawrence and F., Chula, Ga. Apparatus for separating products. 2,589,957, Mar. 18.

Pecherer, Benjamin, Montclair, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Methanol complex of dehydro-l-ascorbic acid. 2,590,067, Mar. 18.

Peebles, Isaac S., Jr., assignee: *See*—
Guisti, Louis J.

Pehrson, August, Ferndale, Wash. Hay hoist. 2,589,856, Mar. 18.

Pekrul, Arthur F., assignor to The New Britain Machine Company, New Britain, Conn. Combined boring and turning tool. 2,590,068, Mar. 18.

Pena, Frank, Brooklyn, N. Y. Combination faucet. 2,589,857, Mar. 18.

Perfex Corporation, assignee: *See*—
Harris, John L., and Hotchkiss.
Schaller, Anton.

Perkins, B. F., & Son, Inc., assignee: *See*—
Getchell, Raymond E.

Peter, Leslie H., E. A. Sheppard, and S. A. Stevens, assignors to Westinghouse Brake and Signal Company Limited, London, England. Optical system for use in light signals, indicators, and the like. 2,589,569, Mar. 18.

Peters, Herbert W.: *See*—
Crossley, Charles N., Gagan, Karlen, and Peters.

Petersen, Christian, assignor to Petersen Mfg. Co., Inc., De Witt, Nebr. Cutter attachment for toggle-actuated plier-type wrenches. 2,590,031, Mar. 18.

Petersen Mfg. Co., Inc., assignee: *See*—
Petersen, Christian.

Peterson, Raymond E., Riverside, Ill., assignor to International Harvester Company. Multiple-plunger fuel injection pump unit. 2,589,858, Mar. 18.

Petit, Georges, Montreuil L'Argille, France. Variable compression ratio internal-combustion engine. 2,589,958, Mar. 18.

Petraglia, Frank A., New York, N. Y. Soldering iron. 2,589,509, Mar. 18.

Petry, Robert K., Wilmington, Del., assignor, by mesne assignments, to Congoleum-Nairn Inc., Kearny, N. J. Laminated covering and making same. 2,590,032, Mar. 18.

Petrzilka, Theodor: *See*—
Stoll, Arthur, Hofmann, Jucker, Petrzilka, Rutschmann, and Troxler.

Pfarrwaller, Erwin, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland. Device for tensioning the weft thread in looms. 2,589,429, Mar. 18.

Philco Corporation, assignee: *See*—
Tellier, Joseph C.

Phillips, Harry A., Chicago, Ill. Suction line liquid return trap. 2,589,859, Mar. 18.

Phillips, Herbert W., assignor of one-half to R. L. Welch, Jr., Washington, D. C. Mechanical amusement or exercising horse. 2,589,570, Mar. 18.

Phillips Petroleum Company, assignee: *See*—
Ray, Gardiner C.

Pike, Beuhring W., Watertown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Altitude indicator system. 2,589,860, Mar. 18.

Pioneer Valley Plastics Company, assignee: *See*—
Rosenthal, Morris, and Robinson.

Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Springs for rail trucks. 2,590,033, Mar. 18.

Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Sequential braking system. 2,590,034, Mar. 18.

Pitney-Bowes, Inc., assignee: *See*—
Rouan, Francis J., and Bach.

Plastic Seal Corporation, assignee: *See*—
Silver, Henry B.

Pletcher, Walter H., Philo, Ohio. Apparatus for sealing off wells being drilled. 2,589,430, Mar. 18.

Pollak, Abraham, Linfield, Pa. Tilting-arbor saw and cradle suspension therefor. 2,590,035, Mar. 18.

Polley, Eugene J., Berwyn, Ill., assignor to Zenith Radio Corporation. Linkage system for a wave-signal receiver of the tilt-out type. 2,589,627, Mar. 18.

Polytechnic Institute of Brooklyn, assignee: *See*—
Smith, Gilbert B. L., and Leeds.

Porter, H. K., Inc., assignee: *See*—
Porter, Thomas M.

Porter, Thomas M., Brookline, assignor to H. K. Porter, Inc., Somerville, Mass. Tool for severing the flanges of channels. 2,589,727, Mar. 18.

Potts, Lawrence D., Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Shaft seal. 2,590,036, Mar. 18.

Pound, Robert V., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Microwave frequency modulated transmitter. 2,589,861, Mar. 18.

Pourciau, Louis L.: *See*—
Crane, Robert, Jr., and Pourciau.

Pratt, Edmond O., Los Angeles, Calif. Pneumatically operated irrigating apparatus. 2,589,728, Mar. 18.

Price, Earl R.: *See*—
Thomas, Thomas H., Price, and Long.

Price, Howard S., Jr.: *See*—
Costello, Joseph, and Price.

Price, Harold W., Bradenton, Fla., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,589,628, Mar. 18.

Pure Oil Company, The, assignee: *See*—
Bond, Donald C.
Bond, Donald C., and Savoy.
Stanton, John P.
Woertz, Byron B., Henderson, and Ridgway.

Putney, David H., assignor to Stratford Engineering Corporation, Kansas City, Mo. Method and apparatus for contacting gases and pulverized solids. 2,589,862, Mar. 18.

Quaker Oats Company, The, assignee: *See*—
Dunlop, Andrew P., and Stout.
Turner, Charles W.

Quartullo, Orpheus F., Cleveland, Ohio. Gasoline-electric drive for vehicles. 2,589,863, Mar. 18.

Queen, Harold E., Berkeley, Calif. Key jack. 2,589,571, Mar. 18.

Quick, Frederick A., Bellerose, assignor to Gregory Motors, Inc., Brooklyn, N. Y. Electric motor. 2,589,959, Mar. 18.

Raab, Regis: *See*—
Engel, Harry C., Raab, and Pajak.

Rademacher, Lawrence B.: *See*—
Hughes, Arthur V., and Rademacher.

Radio Corporation of America, assignee: *See*—
Corporon, Richard P.
Dimmick, Glenn L., and Widdop.
Hershberger, William D.
Sands, William F.
Smith, Arthur L. J.
Stolze, William J.

Rainwater, John E., assignor of one-half to H. J. Hedgepeth, Cedartown, Ga. Meter base spreader. 2,589,572, Mar. 18.

Randall, David I.: *See*—
Solonen, Nicholas W., and Randall.

Randall, John W., assignor to John Dickinson & Co. Limited, Hemel Hempstead, England. Apparatus for feeding carbon interleaved sheets to typewriters and like imprinting machines. 2,590,037, Mar. 18.

Randall, John W., assignor to John Dickinson & Co. Limited, Hemel Hempstead, England. Carbon sheet arrangement for use with continuous stationery. 2,590,038, Mar. 18.

Raskin, Joseph, Brooklyn, N. Y. Doorframe. 2,589,864, Mar. 18.

Rates, Paul R., Sherman Oaks, assignor to Timm Industries, Inc., Glendale, Calif. Metallic window sash. 2,589,729, Mar. 18.

Rathkey, Arnold C., Waterloo, Iowa, assignor to The Gas Machinery Company, Cleveland, Ohio. Heat exchanger. 2,589,730, Mar. 18.

Ratkovlak, Casimer A., Pasadena, assignor to H. Field, Jr., Los Angeles, Calif. Fuse type hydraulic valve. 2,589,731, Mar. 18.

Ratner, Edith, and A. Pastore, Brooklyn, N. Y., said Ratner assignor to said Pastore. Hair curler. 2,589,510, Mar. 18.

Rawlins, Albert L., Grosse Pointe Woods, assignor to Parke, Davis & Company, Detroit, Mich. Aminophenylsulfonylphenylaminoalkanoic acids. 2,589,211, Mar. 18.

Ray, Gardner C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Recovery of olefin hydrocarbons. 2,589,960, Mar. 18.

Ray, William A., North Hollywood, assignor to General Controls Co., Glendale, Calif. Electromagnetic reset valve. 2,589,573, Mar. 18.

Ray, William A., assignor to General Controls Co., Glendale, Calif. Electromagnetic valve. 2,589,574, Mar. 18.

Raymond, Roger S., Redondo Beach, and G. W. McGee, Los Angeles, Calif., assignors to North American Aviation, Inc. Mechanical lead slapper. 2,589,629, Mar. 18.

Reconstruction Finance Corporation, assignee: *See*—
Heinz, Winfield B.

Redmon, Charles H., Lexington, assignor to F. L. Rice, Pikeville, Ky. Release mechanism for toggle actuated plier type wrenches. 2,589,511, Mar. 18.

Reed, Harold V.: *See*—
Nutt, Harold, and Reed.

Reed, Julian, E., Pacific Palisades, assignor, by mesne assignments, to Zenith Processing Corporation, Los Angeles, Calif. Quantitative feeder for ice plants. 2,589,431, Mar. 18.

Reed, Price L., Royersford, assignor to Superior Tube Company, Philadelphia, Pa. Making electrode assemblies. 2,589,961, Mar. 18.

Reese, Robert R.: *See*—
Agapetus, Napoleon A., Reese, and Scoville.

Reiter, Daniel I., New York, N. Y. One-piece resilient socket. 2,589,962, Mar. 18.

Rembusch, Trueman T., Indianapolis, Ind., and H. P. Wolfberg, Denver, Colo. Counting and recording apparatus. 2,589,432, Mar. 18.

Remington Arms Company, Inc., assignee: *See*—
Kenney, Joseph F.

Remington Rand Inc., assignee: *See*—
Braun, Karl J., and Miller.
Shultz, Frederick A., Gressel, Hobb, and Kroeger.

Research Corporation, assignee: *See*—
Fawaz, George.

Rhodes, Philip H., Kingston, N. Y., assignor, by mesne assignments, to Koppers Company, Inc. Production of dimensionally stable hardened copolymer monohydric phenol, dihydric phenol-aldehyde resinous mass. 2,589,286, Mar. 18.

Riblet, Henry J., Cambridge, Mass., assignor, by mesne assignments, to United States of America as represented by the Secretary of the Navy. Wave guide feed for cylindrical paraboloid. 2,589,433, Mar. 18.

Rice, Francis L., assignee: *See*—
Redmon, Charles H.

Richard, Fritz: *See*—
Eckel, John E., and Richard.

Richardson, Henry M., and W. S. Larson, assignors to De Bell & Richardson, Inc., Springfield, Mass. Protective eyeshield. 2,589,575, Mar. 18.

Richardson, Irving, Newark, N. J. Water gun. 2,589,963, Mar. 18.

Richmond, James T., and R. J. Wigginton, assignors to National Titanium Pigments Limited, Luton, England. Manufacture of titanium pigments. 2,589,964, Mar. 18.

Richter, Frederick P., Woodbury, N. J., and B. A. Orkin, Philadelphia, Pa., assignors to Socony-Vacuum Oil Company, Incorporated. Reaction of organosiliconhalides with organodithiols and diselenyl substituted organo compounds, and products thereof. 2,590,039, Mar. 18.

Ridgway, Charles M.: *See*—
Woertz, Byron B., Henderson, and Ridgway.

Rivard, Nelson J., Milford, Conn. Wood planer blade setting gauge. 2,589,865, Mar. 18.

Rivière, Henri, assignor to "Office National d'Etudes et de Recherches Aeronautiques" (O. N. E. R. A.), Paris, France. Jet-propelled aircraft. 2,589,732, Mar. 18.

Robert, Roger A., Boulogne-sur-Seine, France. Retractable landing gear for aircraft. 2,589,434, Mar. 18.

Roberts, Gordon A., Grosse Pointe, Mich. Automobile visor. 2,589,866, Mar. 18.

Robinson, Charles C., assignor to Shureflash Laboratory Inc., Newport, Ky. Electrical surge discharge power unit. 2,590,069, Mar. 18.

Robinson, Joseph: *See*—
Rosenthal, Morris, and Robinson.

Roe, A. V., Canada Limited, assignee: *See*—
Creek, John O.

Roeben, Ernest H., St. Paul, Minn. Fishhook guard. 2,589,435, Mar. 18.

Roemer, Ralph R., assignee: *See*—
Tompkins, John E.

Rohm & Haas Company, assignee: *See*—
Craig, W. E., and Culver.

Roll-Rite Corporation, assignee: *See*—
Christensen, Carl O.

Romberg, Arnold: *See*—
La Coste, Lucien, and Romberg.
La Coste, Lucien J. B., and Romberg.

Roost, Oscar W., assignor to The Foxboro Company, Foxboro, Mass. Resistance thermometer. 2,590,041, Mar. 18.

Root, Charles F., assignor to The Chandler & Price Company, Cleveland, Ohio. Apparatus for producing curved or plane surfaces. 2,590,042, Mar. 18.

Roots & Schetky Inc., assignee: *See*—
Schetky, John L.

Rose, Charles H., Chicago, Ill. Vehicle guiding means. 2,590,040, Mar. 18.

Rose, Howard E., Peninsula, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio. Sawing machine. 2,589,576, Mar. 18.

Rosenblad Corporation, assignee: *See*—
Rosenblad, Curt F.

Rosenblad, Curt F., Stockholm, Sweden, assignor, by mesne assignments, to Rosenblad Corporation, New York, N. Y. Operating film evaporators. 2,589,733, Mar. 18.

Rosenthal, Morris, Springfield, and J. Robinson, West Springfield, assignors to Pioneer Valley Plastics Company, Chicopee, Mass. Ice pack formed of vinyl plastic sheeting. 2,589,577, Mar. 18.

Rost, Helge F., Djursholm, K. H. Thunell, Nockeby, S. D. Vigren, Stockholm, and P. H. E. Claesson, Jakobsberg, Sweden. System for locating, indicating, and/or following objects in space. 2,589,965, Mar. 18.

Rouan, Francis J., Stamford, Conn., and J. W. Bach, Port Chester, N. Y., assignors to Pitney-Bowes, Inc., Stamford, Conn. Buckling folding machine. 2,589,436, Mar. 18.

Rowe, Stewart, Cincinnati, Ohio, assignor, by mesne assignments, to Buckeye Cotton Oil Company, Memphis, Tenn. Recovery of vegetable protein. 2,589,867, Mar. 18.

Rudd, Maurice A., North Plainfield, N. J., assignor to Bendix Aviation Corporation, New York, N. Y. Relay switch. 2,589,868, Mar. 18.

Rue, Harold E., Wauwatosa, and L. Tigerman, assignors to Pabst Brewing Company, Milwaukee, Wis. Machine for coding labels. 2,589,512, Mar. 18.

Ruffle, William H., assignor to Speed Development Company Limited, Hove, England. Temperature change responsive means for controlling electric circuits. 2,589,869, Mar. 18.

Rullo, Gabriel N., New York, assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y. Adhesive applicator for corrugating machines. 2,589,966, Mar. 18.

Rundell, Raymond R., Miami, Fla. Telescopic ash receiver. 2,590,043, Mar. 18.

Ruosch, Samuel, Visp, Switzerland. Production of potassium-containing nitrophosphates. 2,589,734, Mar. 18.

Rutschmann, Jürg: *See*—
Stoll, Arthur, Hofmann, Jucker, Petrzilka, Rutschmann, and Troxler.

Ryan, John, Brookline, and W. C. Wilson, Beverly, assignors to Dehydrating Process Co., Boston, Mass. Treating fish and resulting product. 2,589,287, Mar. 18.

Ryan, John, Brookline, assignor to Dehydrating Process Co., Boston, Mass. Treating fish. 2,589,288, Mar. 18.

S & S Corrugated Paper Machinery Co., Inc., assignee: *See*—
Rullo, Gabriel N.

Sabins, Rolland C., Seattle, Wash. Radio direction finding apparatus. 2,589,578, Mar. 18.

Sabol, George, Jr., and M., Clairton, Pa. Illuminating device for motion-picture projecting or viewing apparatus. 2,589,437, Mar. 18.

Sabol, Michael: *See*—
Sabol, George, Jr., and M.

Sackter, Melvin: *See*—
Bauman, Harold W., and Sackter.

Salé, Pierre, A La Demi-Lune, and J. A. Trillat, Lyon, assignors to Societe Rhodiaceta, Paris, France. Apparatus for spinning solutions of high polymers. 2,589,870, Mar. 18.

Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Package with cover or support therefor. 2,589,735, Mar. 18.

Salsbury Corporation, assignee: *See*—
Thostenson, Lewis D.

Samaras, Stephen, assignor to Samaras Valve Corporation, Oakland, Calif. Valve structure for faucets 2,589,630, Mar. 18.

Samaras Valve Corporation, assignee: *See*—
Samaras, Stephen.

Samcoe Holding Corporation, assignee: *See*—
Cohn, Samuel, Walter, and Cohn.

Sampson, Herman J., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. High-pressure reaction of carbon monoxide with hydrazine. 2,589,289, Mar. 18.

Sampson, Herman J., Jr., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reaction of carbon monoxide and hydrazine and product thereof. 2,589,290, Mar. 18.

Sandoz A. G., assignee: *See*—
Von Allmen, Samuel, and Eggenberger.

Sandoz Limited, assignee: *See*—
Neier, Reinhard and Wehrli.
Stoll, Arthur, Hofmann, Jucker, Petrzilka, Rutschmann, and Troxler.

Sands, William F., Haddonfield, N. J., assignor to Radio Corporation of America. Loop antenna input circuits. 2,589,736, Mar. 18.

Sanford, Robert E., assignor to The National Machinery Company, Tiffin, Ohio. Fluid actuated clutch. 2,589,291, Mar. 18.

Santini, Danilo, Tenafly, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Elevator. 2,589,292, Mar. 18.

Savoy, Michael: *See*—
Bond, Donald C., and Savoy.

Sawyer, Lester T., Leominster, Mass. Drinking cup. 2,589,967, Mar. 18.

Schaefer, Vincent J.: *See*—
Blodgett, Katharine B., and Schaefer.

Schaeffer, Benjamin B., Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation. Purification of vinyl aromatic compounds. 2,589,871, Mar. 18.

Schaller, Anton, assignor to Perfex Corporation, Milwaukee, Wis. Frangible plate securing means for bed and cylinder printing machines. 2,590,044, Mar. 18.

Schellens, Eugene L., Essex, assignor to R. W. Cramer Company, Incorporated, Centerbrook, Conn. Small electric motor. 2,589,293, Mar. 18.

Schemm, Henry R., assignor to Huron Portland Cement Company, Detroit, Mich. Self-unloading vehicle body. 2,589,968, Mar. 18.

Schenley Laboratories, Inc., assignee: *See*—
Henecka, Hans.

Schetky, John L., assignor to Roots & Schetky Inc., Portland, Oreg. Tailgate control for dump trucks. 2,589,872, Mar. 18.

Schiff, Karl L., assignor to The Budd Company, Philadelphia, Pa. Room arrangement with movable bed for sleeping cars or the like. 2,590,045, Mar. 18.

Schmidt, Richard F., Cuyahoga Falls, A. E. Ardis, and H. Gilbert, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Vinylidene cyanide polymers and polymer products. 2,589,294, Mar. 18.

Schmitz, Carl E., assignor to Crane Packing Company, Chicago, Ill. Drive for washer of mechanical rotary seals. 2,589,631, Mar. 18.

Schneider, Erwin L., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Production of titanium dioxide. 2,589,910, Mar. 18.

Schneider, Harold, New Bedford, Mass. Slide-in handle for brief cases. 2,589,438, Mar. 18.

Schofield, E. L., Incorporated, assignee: *See*—
Schofield, Earl L.

Schofield, Earl L., assignor to E. L. Schofield, Incorporated, Rockford, Ill. Automatic power table for side service hearses. 2,589,295, Mar. 18.

Schroeder, Elmer F., assignor to G. D. Searle & Co., Chicago, Ill. 2-trihalomethyl-1,3-dioxolane-4-carboxybenzoate and carboxyalkanoate. 2,589,296, Mar. 18.

Schutze, Henry G., and E. F. Wadley, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Production of fulvene hydrocarbons. 2,589,969, Mar. 18.

Schwertz, Frederick A., assignor to Koppers Company, Inc., Pittsburgh, Pa. Separating gases by diffusion. 2,589,297, Mar. 18.

Scott, Charles H., Westport, Conn., assignor to The Dorr Company, New York, N. Y. Sedimentation unit. 2,589,298, Mar. 18.

Scott-Dalgleish, Innes, Jersey, Channel Islands. Clothes hanger. 2,589,737, Mar. 18.

Scott, Harold S., Alliance, Ohio. Composite mailing envelope. 2,589,632, Mar. 18.

Scott & Williams, Incorporated, assignee: *See*—
Grothey, Ivan W., and Lawson.

Scovill Manufacturing Company, assignee: *See*—
Henricksen, Harold E.
Veilleux, Lewis J.

Scoville, Loren P.: *See*—
Agapetus, Napoleon A., Reese, and Scoville.

Scriptomatic, Inc., assignee: *See*—
Crissy, Robert J.

Seal-Spout Corporation, assignee: *See*—
Brucker, Henry.
Klausmann, Milton H.

Searle, G. D., & Co., assignee: *See*—
Burtner, Robert R.
Schroeder, Elmer F.

Sears, Raymond W.: *See*—
Kirkpatrick, William E., and Sears.

Sedberry, William H., Thompsons Station, Tenn. Variable selective automatic choke for shotguns. 2,589,738, Mar. 18.

Seidel, William L., Wyomissing, assignor to Willson Products, Inc., Reading, Pa. Goggles. 2,589,439, Mar. 18.

Seifried, Paul E., New City, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J. Gyroscopic instrument. 2,589,873, Mar. 18.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O., and Kniveton.

Seliger, Rudolf R., Palisades Park, assignor to Bendix Aviation Corporation, Teterboro, N. J. Gyroerection system. 2,589,874, Mar. 18.

Sepavich, Victor F., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Pneumatic thread control system for looms. 2,589,875, Mar. 18.

Sesher, William A., Springfield, Pa. Pipe and gasket joint. 2,589,876, Mar. 18.

Setchell, Barton T., New Brighton, Minn. Safety control circuit for electronic amplifiers. 2,589,299, Mar. 18.

Shaeffer, George D., assignor to Gar Wood Industries, Inc., Detroit, Mich. Hydraulic power control. 2,589,877, Mar. 18.

Shaeffer, Norbert: *See*—
Davis, Roy P. M., and Shaeffer.

Shahan, Louie W., Talladega, Ala. Whistling artificial fish lure. 2,589,970, Mar. 18.

Shapiro, Leona E., New York, N. Y. Safety window guard fastener. 2,589,878, Mar. 18.

Sharpe, Robert H., Stockton, Calif. Thresher with suction and blast fans mounted in housing. 2,589,440, Mar. 18.

Shechter, Leon: *See*—
Turkington, Victor H., and Shechter.

Shelby Cycle Company, The, assignee: *See*—
Smith, Leon A.

Shelby, John A., Indianapolis, Ind. Monorail carrier switch safety mechanism. 2,590,070, Mar. 18.

Shell Development Company, assignee: *See*—
Kuipers, Gerard.
Winkler, De Loss E.

Shepheard, William L., Norfolk, Va. Panel construction. 2,589,633, Mar. 18.

Shepherd, William G., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical oscillator having open-ended coaxial resonator. 2,589,739, Mar. 18.

Sheppard, Earle L., Toronto, Ontario, Canada. Building construction. 2,589,879, Mar. 18.

Sheppard, Edward A.: *See*—
Peter, Leslie H., Sheppard, and Stevens.

Sheppard, Richard H., Hanover, Pa. Intermittently used power take-off. 2,589,880, Mar. 18.

Sherman, Delmer F., New Plymouth, Idaho. Combined propelling and steering mechanism for boats. 2,589,300, Mar. 18.

Sherwin-Williams Company, The, assignee: *See*—
Armitage, Frank, and Fry.

Shook, Charles H., Dayton, Ohio. Apparatus for laying concrete. 2,589,634, Mar. 18.

Shultz, Frederick A., Herkimer, F. C. Gressel, Ilion, and O. J. Hobb, Little Falls, N. Y., and G. H. Kroeger, Cincinnati, Ohio, assignors to Remington Rand Inc., New York, N. Y. Combined tabulator and summary punch. 2,590,047, Mar. 18.

Shurefiash Laboratory Inc., assignee: *See*—
Robinson, Charles C.

Shuron Optical Company, Inc., assignee: *See*—
Fowler, William D.

Sides, Harold I., Chicago, Ill. Basket carrying carriage. 2,590,048, Mar. 18.

Sidlinger, Bruce C., Cedar Rapids, Iowa. Gymnasium springboard. 2,590,049, Mar. 18.

Siegel, James C., New York, N. Y. Cellarette. 2,589,441, Mar. 18.

Siegrist, John C., London, England. Mold for producing sliding clasp fasteners. 2,589,442, Mar. 18.

Siemens Societá Per Azioni, assignee: *See*—
Szaniszlo, Stefan.

Silver, Henry B., assignor to Plastic Seal Corporation, Brooklyn, N. Y. Container sealing machine. 2,589,740, Mar. 18.

Simpson, Lynn L.: *See*—
Weaklend, Stephen E., and Simpson.

Sims, Clarence E., Columbus, Ohio, and M. N. Landis, assignors to La Salle Steel Co., Chicago, Ill. Producing steel products and articles. 2,589,881, Mar. 18.

Sinner, John B. and O. A., San Diego, Calif. Apparatus for lowering burial caskets into crypts. 2,589,882, Mar. 18.

Sinner, Oscar A.: *See*—
Sinner, John B. and O. A.

Skarstrom, Charles W., Hazlet, N. J., assignor to Standard Oil Development Company. Apparatus for determining flame blowout in jet engines. 2,589,971, Mar. 18.

Skupas, John A.: *See*—
Noelting, William H., and Skupas.

Slayen, Zel, San Diego, Calif. Foldable mattress. 2,589,379, Mar. 18.

Slechta, Henry C., Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Elements per unit length counter mechanism. 2,589,741, Mar. 18.

Slowak, Hermann, Montevideo, Uruguay. Weaving shuttle construction. 2,589,972, Mar. 18.

Smith, Arthur D., Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation. Electric melting furnace. 2,589,301, Mar. 18.

Smith, Arthur L. J., Lancaster, Pa., assignor to Radio Corporation of America. Making titanium activated calcium magnesium silicate phosphor. 2,589,513, Mar. 18.

Smith, Gilbert B. L., and M. W. Leeds, Brooklyn, assignors to Polytechnic Institute of Brooklyn, Kings County, N. Y. Electrochemical process. 2,589,635, Mar. 18.

Smith, Howard O., Des Moines, Iowa. Shooting garment. 2,589,636, Mar. 18.

Smith, James S.: *See*—
Hutchinson, Clyde A., Jr., and Smith.

Smith, Leon A., assignor to The Shelby Cycle Company, Shelby, Ohio. Safety shock absorber for front fork structure of bicycles. 2,590,050, Mar. 18.

Smith, Le Roy J., assignor of one-half to G. Cline, Detroit, Mich. Bottle seal cutter. 2,589,742, Mar. 18.

Smith, Paul V., Jr., Westfield, and A. J. Morway, Rahway, N. J., assignors to Standard Oil Development Company. Lubricating grease composition. 2,589,973, Mar. 18.

Smith, William O., Freeport, assignor of thirty-three per cent to E. R. Bennett, Brazoria County, Tex. Shrimp distributing machine. 2,589,580, Mar. 18.

Smithe, F. L., Machine Co. Inc., assignee: *See*—
Novick, Abraham.

Snaith, Thomas W., San Francisco, Calif. Combination duplex collapsible container and dispensing means. 2,589,743, Mar. 18.

Snowman, Paul A., Jr., Glen Ridge, N. J., assignor to North American Paper Process Company, Inc., New York, N. Y. Applying a discontinuous coating to paper. 2,589,302, Mar. 18.

Soberg, Arnold S., Elmhurst, assignor to Sochris Development Company, Chicago, Ill. Automatic pump assembly primer. 2,589,443, Mar. 18.

Sochris Development Company, assignee: *See*—
Soberg, Arnold S.

Sociedad Anónima de Applicaciones Sanitarias, assignee: *See*—
Ocaña, Manuel M.

Societe Anonyme des Etablissements A. Olier, assignee: *See*—
Olier, André J. P.

Societe Continentale et Coloniale de Construction, Societe Anonyme, assignee: *See*—
Gauthier, René.

Societe Rateau (Societe Anonyme) assignee: *See*—
Imbert, Roger J.

Societe Rhodiaceta, assignee: *See*—
Salé, Pierre, and Trillat.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Oberright, Edward A.
Richter, Frederick P., and Orkin.

Sokolik, Edward, New Brighton, Minn. Side draft compensating and steering wheel. 2,589,444, Mar. 18.

Sokolik, Edward, New Brighton, Minn. Vertical-horizontal ball check valve. 2,589,581, Mar. 18.

Soller, John T., and M. A. Starr, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Schmidt type optical projection system for indicating devices. 2,589,883, Mar. 18.

Solo Products Corporation, assignee: *See*—
Taplinger, Jean R.

Solomon, Nathan L., assignee: *See*—
Feyrer, William F.

Solonen, Nicholas W., and D. I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. 1-amino-2-anthraquinone carbo-3',4'-xylide. 2,589,974, Mar. 18.

Solway, Theodore A., formerly Tibor Zsolnai, London, England. Manifolding and copying apparatus. 2,589,884, Mar. 18.

Sommer, Leo H., State College, Pa., assignor to Dow Corning Corporation, Midland, Mich. Organosilicon acids. 2,589,445, Mar. 18.

Sommer, Leo H., State College, Pa., assignor to Dow Corning Corporation, Midland, Mich. Production of disiloxane dibasic acids. 2,589,446, Mar. 18.

Sommer, Leo H., State College, Pa., assignor to Dow Corning Corporation, Midland, Mich. Production of silalactones and of disiloxane dibasic acids. 2,589,447, Mar. 18.

Sonkin, Simon, New York, N. Y., assignor to United States of America as represented by the Secretary of War. Tunable magnetron. 2,589,885, Mar. 18.

Sorenson, Alex, Cambridge, Minn. Door latch. 2,589,637, Mar. 18.

Sourbeck, Randall M., Akron, assignor to Interstate Latex Company, Youngstown, Ohio. Compartmented pillow. 2,589,303, Mar. 18.

Spain, William P., Villa Park, assignor to E. J. Brach & Sons, Chicago, Ill. Confection machine. 2,590,051, Mar. 18.

Spangler, William B., Jefferson, Iowa. Interlocking structural units. 2,589,304, Mar. 18.

Speed Development Company Limited, assignee: *See*—
Ruffle, William H.

Spence, Henry D., Plymouth, Mich. Lamp having hollow translucent lamp-socket-supporting members containing translucent electrolyte. 2,589,448, Mar. 18.

Spero, George B., R. H. Levin, and F. W. Heyl, assignors to The Upjohn Company, Kalamazoo, Mich. Dehydration of steroid side-chain secondary alcohols. 2,589,305, Mar. 18.

Sperry Corporation, The, assignee: *See*—
Ayres, Waldemar A.

Spinney, Lawrence F., Oakland, Maine, assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y. Apparatus for assembling a predetermined quantity of sticks. 2,589,886, Mar. 18.

Sprague, Guy E., Rochester, Ind. Yieldable chain link. 2,589,887, Mar. 18.

Sprinkel, Robert B., Takoma Park, Md., H. D. Umstott, Washington, D. C., and H. E. Knight, Jr., Arlington, Va. Dual control clutch and brake mechanism for motor vehicles. 2,589,975, Mar. 18.

Staege, Stephen A., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,589,638, Mar. 18.

Staege, Stephen A., assignor to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,589,639, Mar. 18.

Stageberg, Sterling O., Minneapolis, Minn. Movable vane pump. 2,589,449, Mar. 18.

Stahl, William F., assignee: *See*—
Collins, Fred V.

Stahl, William F., Kenilworth, Ill. Form for windings and the like. 2,589,640, Mar. 18.

Stalter, Joseph F., assignor to Wingfoot Corporation, Akron, Ohio. Plastic thread. 2,589,514, Mar. 18.

Stamford Trust Company, The, administrator: *See*—
Hene, Emil.
Stampfl, Walter J., Cleveland Heights, Ohio. Flow control device. 2,589,888, Mar. 18.
Standard Dayton Corporation, assignee: *See*—
Noodleman, Samuel.
Standard Oil Company, assignee: *See*—
Lien, Arthur P., and McCaulay.
Standard Oil Development Company, assignee: *See*—
Arundale, Erving, and Bascom.
Cain, Virginia L., and Hemminger.
Meadors, Victor G.
Schutze, Henry G., and Wadley.
Skarstrom, Charles W.
Smith, Paul V., Jr., and Morway.
Strickland, Barney R.
Weeks, Robert L.
Young, David W., and Gallo.
Standard Refrigeration Company, assignee: *See*—
Goldberg, Harry A.
Stannow, Jörgen C., assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo, Sweden. Arrangement in automatic record changers. 2,589,515, Mar. 18.
Stanton, John P., Des Plaines, assignor to The Pure Oil Company, Chicago, Ill. Removing color bodies imparted to hydrocarbons in sweetening the same. 2,589,450, Mar. 18.
Starr, Merle A.: *See*—
Soller, John T., and Starr.
Steel and Alloy Tank Company, assignee: *See*—
Kulczycki, Karol, and Lowe.
Zabriskie, Arthur E., and Lundgren.
Steele, Ray N., Cedar Rapids, Iowa. Fishhook remover. 2,589,976, Mar. 18.
Steffes, Milton J., Dearborn, assignor to Super Tool Company, Detroit, Mich. Forming circular cutters. 2,589,451, Mar. 18.
Stegeman, Donald W., Santa Rosa, Calif. Paper clip. 2,589,889, Mar. 18.
Steiner, Helen J., New York, N. Y. Bleachable transfer ink. 2,589,306, Mar. 18.
Stelzer, Jack, New York, N. Y. Water gun. 2,589,977, Mar. 18.
Stelzer, Otto E., South Bend, Ind. Bar mounting. 2,589,516, Mar. 18.
Stelzer, Otto E., German Township, St. Joseph County, Ind. Mounting for glass panels. 2,589,517, Mar. 18.
Sterling, Florence J., assignor to Sterling-Freeland Industries, Inc., Chicago, Ill. Simulated window. 2,589,744, Mar. 18.
Sterling-Freeland Industries, Inc., assignee: *See*—
Sterling, Florence J.
Stevens, Harold P.: *See*—
Van Gelder, Wynand J., and Stevens.
Stevens, Sydney A.: *See*—
Peter, Leslie H., Sheppard, and Stevens.
Stevenson, Ralph W., assignor, by mesne assignments, to Metal Carrier Corporation, Grand Rapids, Mich. Bottle carrier. 2,589,452, Mar. 18.
Stewart, Harold E., Wamego, Kans. Wallpaper display. 2,589,641, Mar. 18.
Stoecker, Russell L., Santa Ana, Calif. Can holding, opening, and pouring device. 2,589,890, Mar. 18.
Stoll, Arthur, A. Hofmann, E. Jucker, T. Petrzilka, J. Rutschmann, and F. Troxler, assignors to Sandoz Limited, Basel, Switzerland. Lysergyl and isolysergyl g'ycines. 2,589,978, Mar. 18.
Stolze, William J., Astoria, N. Y., assignor to Radio Corporation of America. Loop antenna tuning circuit. 2,589,745, Mar. 18.
Stone, Edwal A., Kansas City, Mo. Ear notching tool. 2,589,891, Mar. 18.
Storch, Max H., Belle Harbor, N. Y. Sanitary hairbrush with removable head. 2,589,746, Mar. 18.
Storsand, Bjarne, Zurich, assignor to Maschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland. Electric vehicle running between two charging stations without a contact-line. 2,589,453, Mar. 18.
Storsand, Bjarne, Zurich, assignor to Maschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland. Flywheel energy storage system, particularly for electric vehicles. 2,589,454, Mar. 18.
Stout, Paul R.: *See*—
Dunlop, Andrew P., and Stout.
Strait-Line Products, assignee: *See*—
Landon, Robert K., and Thomson.
Stratford Engineering Corporation, assignee: *See*—
Putney, David H.
Strickland, Barney R., Westfield, N. J., assignor to Standard Oil Development Company. Solvents for gasoline inhibitors. 2,589,979, Mar. 18.
Strughold, Peter, Lemay, and J. F. May, St. Louis, Mo. Lubricant stick. 2,589,582, Mar. 18.
Stueland, Lafe, Alameda, Calif. Lamp replacer for push-pull fixtures. 2,589,642, Mar. 18.
Stuits, J. G.: *See*—
Stuits, Johnny G. W.
Stuits, Johnny G. W., deceased, also known as J. G. Stuits, Austin, Tex; W. W. Patterson, administrator. Cane tip. 2,590,052, Mar. 18.
Sudman, Israel H.: *See*—
Longmire, Conrad L., and Sudman.
Sulzer Freres, Societe Anonyme, assignee: *See*—
Pfarrwaller, Erwin.
Super-Cut, Inc., assignee: *See*—
Fantozzi, Vincent J., and Metzger.
Super Tool Company, assignee: *See*—
Steffes, Milton J.
Superior Tube Company, assignee: *See*—
Reed, Price L.
Sussman, Philip A., assignee: *See*—
Miller, Joseph J.
Sutphin, Cecil A.: *See*—
Ward, Juanita M., and Sutphin.
Suzukawa, Hiroshi, Suginami-ku, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan. Camera holder. 2,589,892, Mar. 18.
Svenska Aktiebolaget Gasaccumulator, assignee: *See*—
Granquist, Carl-Erik.
Stannow, Jörgen C.
Swift & Company, assignee: *See*—
Bradford, Purdy, and White.
Sylvania Electric Products Inc., assignee: *See*—
Wheeler, William.
Wheeler, William, and Wicke.
Symons Brothers Co., assignee: *See*—
Symons, Edgar P.
Symons, Edgar P., Hollywood, assignor to Symons Brothers Co., North Hollywood, Calif. Grain cutter. 2,589,307, Mar. 18.
Cyncro Machine Company, assignee: *See*—
O'Grady, Joseph V.
Szaniszlo, Stefan, Caronno Pertusella, assignor to Siemens Societa Per Azioni, Milano, Italy. Relay device for starting and protecting single-phase induction motors, particularly for compression refrigerator motors. 2,589,893, Mar. 18.
Taplinger, Jean R., Englewood, N. J., assignor to Solo Products Corporation. Apparatus for forming strand-like products on a carrier. 2,589,518, Mar. 18.
Taylor, Ervin W., Micco, Fla. Concrete drilling device. 2,590,053, Mar. 18.
Taylor, James, Saltcoats, and J. Whetstone, West Kilbride, Scotland, assignors to Imperial Chemical Industries, Limited. Producing ammonium nitrate-containing composition. 2,590,054, Mar. 18.
Technical Assets, Inc., assignee: *See*—
Chilowsky, Constantin.
Technical Glass Company, assignee: *See*—
Netschert, Franz.
Tedeschi, Emilio L., New York, N. Y. Emergency portable light. 2,589,747, Mar. 18.
Teeter, Howard M.: *See*—
Woods, Lyle C., and Teeter.
Telefonaktiebolaget L. M. Ericsson, assignee: *See*—
Hullegård, Erik W.
Tellier, Joseph C., Penn Wynne, assignor to Philco Corporation, Philadelphia, Pa. Reflex superregenerative receiver. 2,589,455, Mar. 18.
Templeman, John F.: *See*—
Neth, Frederick G., and Templeman.
Ten Eyck, Richard E., Wichita, Kans. Two.-deck trailer. 2,589,894, Mar. 18.
Tennessee Valley Authority, assignee: *See*—
Miller, Philip.
Texas Company, The, assignee: *See*—
Hess, Howard V., Arnold, and Truitt.
Tey, Alberto M.: *See*—
Medina, Francisco S., and A. M. and L. M. Tey.
Tey, Luis M.: *See*—
Medina, Francisco S., and A. M. and L. M. Tey.
Thelander, W. Vincent, Auburn, Ind., assignor to Dana Corporation, Toledo, Ohio. Friction clutch with spring supported pressure plate. 2,589,308, Mar. 18.
Thomas, Archibald P.: *See*—
Boardman, Reginald G., and Thomas.
Thomas & Betts Co., The, assignee: *See*—
Graham, Maxwell A., and Thompson.
Thomas, Thomas H., E. R. Price, and R. H. Long, assignors to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,589,643, Mar. 18.
Thompson, Charles H.: *See*—
Graham, Maxwell A., and Thompson.
Thompson, Forrest G., Kennett Square, Pa. Container filling machine having feed screw with cylindrical bore forming member. 2,589,583, Mar. 18.
Thompson, Frederick C., Danbury, England. Radar navigating apparatus for aircraft. 2,589,584, Mar. 18.
Thompson Grinder Company, The, assignee: *See*—
Leffel, Guy H.
Thompson, William P.: *See*—
Campbell, Rollin E., and Thompson.
Thomsen, Svend, Bala, Ontario, Canada. Carbonizing unit. 2,589,895, Mar. 18.
Thomson, James: *See*—
Jackson, David, and Thomson.
Thomson, John R.: *See*—
Landon, Robert K., and Thomson.
Thorn, Raymond E.: *See*—
Lewis, Ernest E., and Thorn.
Thostenson, Lewis D., Inglewood, Calif., assignor to Salisbury Corporation. Bumper structure, 2,589,644, Mar. 18.

Thunell, Karl H.: *See*—
Rost, Helge F., Thunell, Vigren, and Claesson.
Tiegel, Margaret D., Greensburg, Pa. Insulating and heating jacket for food containers. 2,589,645, Mar. 18.
Tigerman, Louis: *See*—
Rue, Harold E., and Tigerman.
Timm Industries, Inc., assignee: *See*—
Rates, Paul R.
Timmerman, Johannes, Clifton, N. J. Apparatus for measuring muscular strength. 2,590,053, Mar. 18.
Tinkham, Charles W., Baltimore, Md. Static truck wheel balancer. 2,589,456, Mar. 18.
Toastswell Company, Incorporated, The, assignee: *See*—
McCullough, Paul J.
Toland, Wayne G., Canton, Ill., assignor to International Harvester Company. Indicator for hydraulic rams. 2,589,896, Mar. 18.
Tomášik, Karel, Vsetin, Czechoslovakia. Suspending arrangement for curtains. 2,589,585, Mar. 18.
Tompkins, J. Everette, assignee: *See*—
Tompkins, John E.
Tompkins, John E., assignor, by mesne assignments, of thirty one-hundredths to R. R. Roemer, thirty-five one-hundredths to L. E. Roemer, twenty-five one-hundredths to W. R. Kiefer and ten one-hundredths to J. E. Tompkins. Circular saw safety guard. 2,589,309, Mar. 18.
Touborg, Jens K., Tecumseh, Mich. assignor, by mesne assignments, to Tresco, Inc. Refrigerant separator and dehydrator. 2,589,457, Mar. 18.
Tournier, Marcel, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Manufacture of artificial crystals. 2,589,310, Mar. 18.
Toussaint, August L., Elmhurst, Ill. Woodworking hand power tool. 2,589,458, Mar. 18.
Transit Research Corporation, assignee: *See*—
Piron, Emil H.
Tresco, Inc., assignee: *See*—
Touborg, Jens K.
Trillat, Joseph A.: *See*—
Salé, Pierre, and Trillat.
Trimble, Joseph M.: *See*—
Langsenkamp, Robert M., and Trimble.
Troxler, Frans: *See*—
Stoll, Arthur, Hofmann, Jucker, Petrzilka, Rutschmann, and Troxler.
Truitt, James K.: *See*—
Hess, Howard V., Arnold, and Truitt.
Trump, Frederick O., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Dry printing and developing machine. 2,589,748, Mar. 18.
Tucker, Julia A., assignee: *See*—
Tucker, William C.
Tucker, William C., assignor of one-third to J. A. Tucker and one-third to S. M. Austin, High Point, N. C. Wrap stripe stop motion. 2,589,646, Mar. 18.
Tuller, William G., Arlington, assignor to Melpar, Inc., Alexandria, Va. Electronic commutator. 2,589,460, Mar. 18.
Turkington, Victor H., Mountain Lakes, and L. Shechter, East Orange, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation. Production of surfaced core material. 2,589,459, Mar. 18.
Turnbull, Glen O., Rock Island, Ill., assignor to International Harvester Company. Variable V belt pulley drive. 2,589,897, Mar. 18.
Turner, Charles W., Columbia, assignor to American Dairies, Incorporated, Kansas City, Mo., and The Quaker Oats Company, Chicago, Ill. Stimulating the growth of mammary glands and lobule-alveolar system of mammals. 2,589,898, Mar. 18.
Turner, Robert W., Port Jefferson, Ohio. Fluent material dispenser and spreader. 2,589,311, Mar. 18.
Uhl, Peter W., assignor to General Motors Corporation, Detroit, Mich. Eliminating corrosion due to galvanic current set up by dissimilar metals in the presence of an ionized solution. 2,589,461, Mar. 18.
Umstott, Haven D.: *See*—
Sprinkel, Robert B., Umstott, and Knight.
Union Carbide and Carbon Corporation, assignee: *See*—
Potts, Lawrence D.
Turkington, Victor H., and Shechter.
United Aircraft Corporation, assignee: *See*—
Caldwell, Frank W.
United Shoe Machinery Corporation, assignee: *See*—
Ashley, John W., and Leahy.
Eldred, Edwin C., Jr.
Holmes, Otis M.
Imhof, Herman A.
Macdonald, Lester S.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Hutchinson, Clyde A., Jr., and Smith.
Wiegand, Clyde E.
United States Gypsum Company, assignee: *See*—
Huntzicker, Harry N., and Wise.
United States Motors Corporation, assignee: *See*—
Curtis, Guy A.
United States Rubber Company, assignee: *See*—
Hurt, Victor H.
United States Steel Company, assignee: *See*—
Lorig, Edwin T.
Universal Match Corporation, assignee: *See*—
Ellern, Herbert.
Universal Oil Products Company, assignee: *See*—
Hervert, George L., and Bloch.
Upjohn Company, The, assignee: *See*—
Spero, George B., Levin, and Heyl.
Usewood Corporation, assignee: *See*—
Hene, Emil.
Vail Manufacturing Company, assignee: *See*—
Demerath, Le R.
Vail, Walter J.
Vail, Walter J., assignor to Vail Manufacturing Company, Chicago, Ill. Machine for stringing hangers and the like. 2,589,899, Mar. 18.
Valmari, Johannes, deceased, by M. Valmari, administrator, Helsinki, Findland. Solution of nutritive salts and making the same. 2,589,900, Mar. 18.
Valmari, Mauri, administrator: *See*—
Valmari, Johannes.
Van Beckum, William G.: *See*—
Heritage, Clark C., and Van Beckum.
Van Doren, Ruth M., Elmhurst, Ill. Seat cover stretching and securing device. 2,589,901, Mar. 18.
Van Gelder, Wynand J., Los Angeles, and H. P. Stevens, Bellflower, Calif. Sunshade. 2,589,647, Mar. 18.
Van Nouhuys, Herman L., Breda, Netherlands, assignor to American Enka Corporation, Enka, N. C. Revivifying spent activated carbon by a process employing a double sodium bicarbonate wash. 2,589,750, Mar. 18.
Vanta Company Inc., The, assignee: *See*—
Wyner, Justin L.
Van Wagner, Rollo E., New Haven, Ohio. Mower. 2,589,751, Mar. 18.
Vaurillon, Emile, Geneva, Switzerland. Watertight watchcase. 2,589,902, Mar. 18.
Veilleux, Lewis J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Locking device for foot presses. 2,589,752, Mar. 18.
Vendo Company, The, assignee: *See*—
Andrews, Boley A.
Victor Animatograph Corporation, assignee: *See*—
Albrecht, Richard M.
Vigren, Sten D.: *See*—
Rost, Helge F., Thunell, Vigren, and Claesson.
Vinson, Walter L., Sherman Oaks, Calif. Kitchen pot or pan scraper. 2,589,753, Mar. 18.
Vitter, Albert L., Jr., New Orleans, La., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Tunable magnetron oscillator. 2,589,903, Mar. 18.
Vladeff, Theodore, Detroit, Mich. Roentgenographic apparatus. 2,589,904, Mar. 18.
Vogel-Peterson Co., assignee: *See*—
Magnuson, Raymond A., and Christianson.
Von Allmen, Samuel, and H. Eggenberger, assignors to Sandoz A. G., Basel, Switzerland. 1-amino 4-bicyclohexylamino anthraquinone .2-sulfonic acids. 2,589,980, Mar. 18.
Vroman, Erwin C., Watertown, N. Y., assignor to The New York Air Brake Company. Feed valve for air brakes. 2,589,586, Mar. 18.
Waack, Ervin V.: *See*—
Floeter, Edward J., and Waack.
Wadley, Edward F.: *See*—
Schutze, Henry G., and Wadley.
Wadsworth, Francis T., Dickinson, assignor to Pan American Refining Corporation, Texas City, Tex. Cycloalkane oxidation. 2,589,648, Mar. 18.
Wagner, Frank, Laurel Hill, N. Y. Four-color magazine pencil. 2,589,905, Mar. 18.
Wagner, John O., Palisade, N. J. Doll's eye. 2,589,462, Mar. 18.
Wagner, Willard F., Detroit, assignor of one-half to C. W. Glenn, Centerline, Mich. Lighter. 2,589,906, Mar. 18.
Waguet, Philippe, Paris, France, assignor to General Electric Company. Starting and operating device and circuits for electric discharge devices. 2,589,754, Mar. 18.
Wallenius, Tuomo J. H., Tampere, Finland. Fixture for cameras or other similar apparatus. 2,589,520, Mar. 18.
Walter, Jules G.: *See*—
Cohn, Samuel, Walter, and Cohn.
War, United States of America, as represented by the Secretary of, assignee: *See*—
Bess, Leon.
Chance, Britton, and Fredrick.
Grimm, Henry H.
Higinbotham, William A.
Hulsizer, Robert I., Jr.
Jarmots, Paul.
Longmire, Conrad L., and Sudman.
McConnell, Robert A.
Montgomery, Carol G.
Orpin, Lionel H.
Overacker, Horace E.
Pike, Penhring W.
Pound, Robert V.
Soukin, Simon.
Vitter, Albert L., Jr.
Warburton, Ray W., Medfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,589,463, Mar. 18.
Ward, Juanita M., Marion, and C. A. Sutphin, Jonesboro, Ind. Shoulder protector and garment strap holder. 2,589,755, Mar. 18.

Waters, Harry F., New York, N. Y. Heat-sealing machine. 2,589,756, Mar. 18.
Wayne Kerr Laboratories Limited, The, assignee: *See*— Calvert, Raymond.
Weakland, Stephen E., and L. L. Simpson, Portland, Oreg. Dispenser for rolled paper with automatic holding brake. 2,589,587, Mar. 18.
Webb, Elmer J., Newark, N. Y. Dowel structure. 2,589,464, Mar. 18.
Weeks, Robert L., Union, N. J., assignor to Standard Oil Development Company. Drying of solid adsorbents. 2,589,981, Mar. 18.
Wehrli, Walter: *See*— Neier, Reinhard, and Wehrli.
Weidenmiller, Edward A., Lincolnwood, assignor to Edward Weidenmiller Co., Inc., Morton Grove, Ill. Embossing cutter for crackers and biscuit cutting and embossing machines. 2,589,908, Mar. 18.
Weidenmiller, Edward, Co., Inc., assignee: *See*— Weidenmiller, Edward A. Weidenmiller, Jack E. and R. M.
Weidenmiller, Jack E., Lincolnwood, and R. M. Weidenmiller, Skokie, assignors to Edward Weidenmiller Co., Inc., Morton Grove, Ill. Cutter for biscuits and cracker cutting and embossing machines. 2,589,907, Mar. 18.
Weidenmiller, Robert M.: *See*— Weidenmiller, Jack E. and R. M.
Weikel, John H., Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y. Production of titanium dioxide. 2,589,909, Mar. 18.
Weinberg, Maurice J., New York, N. Y. Device for cutting a slab from a block of soft material such as butter or cheese. 2,589,911, Mar. 18.
Weiner, James R., assignor to Eckert-Mauchly Computer Corporation, Philadelphia, Pa. Monitoring system. 2,589,465, Mar. 18.
Welch, Robert L., Jr., assignee: *See*— Phillips, Herbert W.
Weld, Leon S., Rochester, N. Y. Barrel bedding device for rifles. 2,589,912, Mar. 18.
Weldon, Robert: *See*— Cunningham, Gale C., and Weldon.
Wellworthy Piston Rings Limited, assignee: *See*— Woolcott, Arthur J.
Wenner, Frank W., Davenport, Iowa. Anchor for decoys. 2,589,913 Mar. 18.
Western Electric Company, Incorporated, assignee: *See*— Johnstone, Harold G. Lawrence, Roger C. Slechta, Henry C. Wojciechowski, Bogumil M.
Westinghouse Brake and Signal Company, Limited, assignee: *See*— Peter, Leslie H., Sheppard, and Stevens.
Westinghouse Electric Corporation, assignee: *See*— Santini, Danilo. Warburton, Ray W.
Weston Electrical Instrument Corporation, assignee: *See*— Lamb, Anthony H.
Weyerhaeuser Timber Company, assignee: *See*— Heritage, Clark C., and Van Beckum.
Wheeler, Richard H., Utica, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,589,649, Mar. 18.
Wheeler, William, St. Albans, and W. C. Wicke, Amsterdam, N. Y., assignors to Sylvania Electric Products, Inc. Heater. 2,589,521, Mar. 18.
Wheeler, William, St. Albans, N. Y., assignor to Sylvania Electric Products Inc. Cathode heater structure. 2,589,522, Mar. 18.
Whetstone, John: *See*— Taylor, James, and Whetstone.
Whirlpool Corporation, assignee: *See*— Geldhof, Peter E.
Whitacre, Ernest U., Salem, Ohio. Baled straw shredder. 2,590,056, Mar. 18.
White, Herman J.: *See*— Bradford, Purdy, and White.
Whiting Corporation, assignee: *See*— Holmes, Louis D.
Wicke, Warner C.: *See*— Wheeler, William, and Wicke.
Widdop, Mary E.: *See*— Dimmick, Glenn L., and Widdop.
Wiegand, Clyde E., Oakland, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Half-life determining method. 2,590,057, Mar. 18.
Wiford, Elza E., Sidney, Ohio. Indicating device for regulation of timepieces. 2,589,467, Mar. 18.
Wigginton, Raymond J.: *See*— Richmond, James T., and Wigginton.
Wilcox, Barnard, Wallace, Idaho. Production of titanium tetrachloride. 2,589,466, Mar. 18.
Wilcoxon, Kenneth H., Cabin John, Md. Nonbuoyant paravane. 2,589,312, Mar. 18.
Wiley, John L.: *See*— Bond, John A., and Wiley.
Williams, Fred E.: *See*— Koller, Lewis R., and Williams.
Williams, Paul A., Snyder, N. Y. Toy of the fluent material operative type. 2,589,757, Mar. 18.
Willits, Glenn D., Leo, Ind., assignor to General Electric Company. Motor switch assembly. 2,590,058, Mar. 18.
Willson Products, Inc., assignee: *See*— Seidel, William L.
Wilson, Theodore J.: *See*— Kutzler, Robert J., and Wilson.
Wilson, William C.: *See*— Ryan, John, and Wilson.
Wine, William E., Parker, Va. Door frame for railway hopper cars. 2,589,468, Mar. 18.
Wingfoot Corporation, assignee: *See*— Flory, Paul J., and Leutner. Stalter, Joseph F.
Winkler, De Loss E., Berkeley, assignor to Shell Development Company, San Francisco, Calif. High molecular weight halogenated materials stabilized with a mixture of an epoxy compound and a carboxylic acid salt. 2,590,059, Mar. 18.
Winnemore, Jullien F., Forest Glen, Md. Toy building boxes. 2,589,588, Mar. 18.
Wise, John K.: *See*— Huntzicker, Harry N., and Wise.
Wise Potato Chip Company, assignee: *See*— Xander, Paul A.
Woertz, Byron B., Skokie, L. M. Henderson, Winnetka, and C. M. Ridgway, Crystal Lake, assignors to The Pure Oil Company, Chicago, Ill. Blending of hydroformer feed stocks. 2,589,523, Mar. 18.
Wojciechowski, Bogumil M., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for making electrical measurements. 2,589,758, Mar. 18.
Wolcott, Herbert B., Jr., Columbia, Mo. Automatic valve control means for water softeners. 2,589,650, Mar. 18.
Wolf, Joseph, Hood River, Oreg. Endless chain-type power-driven saw. 2,589,914, Mar. 18.
Wolfberg, Harris P.: *See*— Rembusch, Trueman T., and Wolfberg.
Wood, Kenneth M.: *See*— Dildilian, Ara T., and Wood.
Wood, William H., University Heights, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio. Treating lithographic plates. 2,589,313, Mar. 18.
Wood, William S., Harpenden, G. Clennett, and H. L. Hulland, assignors to La Porte Chemicals Limited, Luton, England. Electrolytic production of ammonium persulphate solutions. 2,589,982, Mar. 18.
Woodruff, Steve H., Oklahoma City, Okla. Distributing nozzle. 2,589,589, Mar. 18.
Woods, Lyle C., and H. M. Teeter, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Preparation of keto acid compounds. 2,589,314, Mar. 18.
Woolcott, Arthur J., assignor of one-half to Wellworthy Piston Rings Limited, Lymington, England. Manufacture of slotted oil control and like rings. 2,589,590, Mar. 18.
Wright, Thomas, Co., Inc., The, assignee: *See*— Bruno, Samuel J.
Wullschleger, August, Olten, Switzerland. Load lifting arrangement. 2,589,915, Mar. 18.
Wyner, Justin L., Brookline, assignor to The Vanta Company Inc., Newton, Mass. Body garment having girth adjusting fastener means. 2,589,916, Mar. 18.
Xander, Paul A., Nescopeck, assignor to Wise Potato Chip Company, Berwick, Pa. Controlling color and flavor in potato chips. 2,589,591, Mar. 18.
Yelton, James L., Bellingham, Wash. Sky line logging carriage. 2,589,315, Mar. 18.
York Corporation, assignee: *See*— Hopkins, Neil E.
Young, Arthur M., Buffalo, assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Manufacturing a set of matched rotor blades. 2,589,316, Mar. 18.
Young, David W., Roselle, and S. G. Gallo, Elizabeth, N. J., assignors to Standard Oil Development Company. Nonfoaming oil composition containing polymeric silicone. 2,589,317, Mar. 18.
Zabriskie, Arthur E., Jersey City, N. J., and W. E. Lundgren, Sharon, Mass., assignor, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J. Cloth roll control mechanism. 2,589,524, Mar. 18.
Zamis, Anthony F., assignor to Illinois Tool Works, Chicago, Ill. Gear-cutting apparatus. 2,589,759, Mar. 18.
Zelt, Elmer J., Fort Wayne, Ind., assignor to General Electric Company. Lighting fixture for circular tubular discharge lamps. 2,589,760, Mar. 18.
Zenftman, Henryk, and J. E. Forlin, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited. Manufacture of fuses and composition therefor. 2,590,060, Mar. 18.
Zenith Processing Corporation, assignee: *See*— Reed, Julian E.
Zenith Radio Corporation, assignee: *See*— Polley, Eugene J.
Zerbo, John, Bronx, N. Y. Comb. 2,589,469, Mar. 18.
Zimmerman, Harry F., assignor to Bendix Aviation Corporation, Towson, Md. Packing articles for shipment. 2,590,071, Mar. 18.
Zmuda, Andrew W.: *See*— Mitzelfeld, Thomas H., and Zmuda.
Zsolnai, Tibor: *See*— Solway, Theodore A.
Zückert, Richard, Chard, England, assignor of one-half to L. & C. Hardtmuth, Inc., Bloomsburg, N. J. Grinding mill. 2,589,917, Mar. 18.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Device for embracingly holding gloves. V. M. and C. S. Kindlund. Re. 23,472, Mar. 18.
Electrical energizing means for limit control devices and the like. P. L. Betz. Re. 23,470, Mar. 18.
Radio receiver sequence tuner. E. J. Sperber. Re. 23,474, Mar. 18.
Shift-lever controlled automotive clutch. G. T. Randol. Re. 23,473, Mar. 18.
Skinning machine. F. J. Coad. Re. 23,471, Mar. 18.

LIST OF DESIGN INVENTIONS

Bank and picture frame, Combined. B. B. Salmon. 166,228, Mar. 18.
Bathing suit lining. S. Annis. 166,167, Mar. 18.
Bottle. N. W. Schwartz. 166,229, Mar. 18.
Box for wrist watch and parts therefor. J. Howard. 166,194–5, Mar. 18.
Bread box. S. J. Popeil. 166,225, Mar. 18.
Brooch or similar article. A. Philippe. 166,211, Mar. 18.
Brooch or the like. A. Philippe. 166,214–22, Mar. 22.
Chair. B. F. Hamilton. 166,192, Mar. 18.
Check stand or similar article. W. H. Crawford. 166,174, Mar. 18.
Check stand or similar article. F. W. Hartup. 166,193, Mar. 18.
Cigarette and cigarette lighter case, Combined. M. D'Orsay. 166,178, Mar. 18.
Cooler, Evaporative. A. D. Goettl. 166,182, Mar. 18.
Display stand for sunglasses or the like. J. C. Foster. 166,180, Mar. 18.
Dress, Knitted. E. Guttman. 166,187–90, Mar. 18.
Dustpan. N. W. Roop. 166,226, Mar. 18.
Earring or the like. A. Philippe. 166,212–13, Mar. 18.
Earring or the like. A. Philippe. 166,223–4, Mar. 18.
Embroidered fabric. R. Dannecker. 166,175–6, Mar. 18.
Eye protector. F. G. Gay, Jr., and D. J. McCulloch. 166,181, Mar. 18.
Fabric, Embroidered. H. Krieger. 166,200–5, Mar. 18.
Fabric or the like. S. Bochner. 166,171, Mar. 18.
Fabric, Woven plastic. V. Petracek. 166,210, Mar. 18.
Goblet. J. T. Dowd. 166,179, Mar. 18.
Goggle front. R. F. E. Stegeman and F. G. Gay, Jr. 166,231, Mar. 18.
Holder or similar article, Earring. D. Johns. 166,196, Mar. 18.
Iron, Electric. C. Karstadt. 166,199, Mar. 18.
Knife or similar article. B. Bureau. 166,172, Mar. 18.
Lamp or similar article, Electric. J. C. Balyozian. 166,168, Mar. 18.
Lamp, Television. W. N. de Sherbinin. 166,177, Mar. 18.
Multilens magnifier. A. H. Blum. 166,170, Mar. 18.
Paper napkin or the like. J. F. Meyer. 166,208, Mar. 18.
Pavement repairing machine. V. F. Baumgardner. 166,169, Mar. 18.
Place mat. G. H. Wood and R. Mulholland. 166,234, Mar. 18.
Plate or similar article, Dinner. C. L. Nelson. 166,209, Mar. 18.
Shears, Angle head metal-cutting. W. M. Shoffner. 166,230, Mar. 18.
Sock, Man's. R. A. Torgersen. 166,232–3, Mar. 18.
Staple driver or similar article. H. W. Marano. 166,206, Mar. 18.
Stocking, Lady's. N. Judson. 166,197–8, Mar. 18.
Table base, Gateleg. A. Sachs. 166,227, Mar. 18.
Trailer. D. G. Hadges. 166,191, Mar. 18.
Valve or similar article. L. M. Burrows. 166,173, Mar. 18.
Wall plaque. M. E. Goldstein. 166,183–5, Mar. 18.
Watchcase. J. Granat. 166,186, Mar. 18.
Window for an outside door. J. C. McNally and S. F. Fuston, Jr. 166,207, Mar. 18.
Wire recorder. B. J. Zapolski. 166,235, Mar. 18.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Actuator for reciprocating well pumps. E. W. Mong and W. O. Anderson. 2,589,420, Mar. 18.
Acylation of polysaccharides in formamide. J. F. Carson. 2,589,226, Mar. 18.
Adhesive applicator for corrugating machines. G. N. Rullo. 2,589,966, Mar. 18.
Adjustable clothes hanger. T. H. Hannon. 2,589,374, Mar. 18.
Adjusting arrangement. C.-E. Granquist. 2,589,369, Mar. 18.
Adsorbing device. G. S. Dauphinee. 2,589,229, Mar. 18.
Advertising device. H. L. Blum. 2,589,474, Mar. 18.
Aerial display apparatus. E. T. Belmont. 2,589,472, Mar. 18.
Aircraft apparatus for simulating a line of sight-defining structure. W. A. Ayres. 2,589,216, Mar. 18.
Aircraft engine mounting. H. R. Childress. 2,589,339, Mar. 18.
Aircraft power plant having two or more gas turbine power units to drive one or more airscrews in various combinations. F. M. Owner, S. W. Mansell, and F. C. I. Marchant. 2,589,853, Mar. 18.
Aliphatic amido propyl quaternary ammonium salts. E. W. Cook and P. H. Moss. 2,589,674, Mar. 18.
Alkylation of aromatic compounds. G. L. Hervert and H. S. Bloch. 2,589,253, Mar. 18.
Altitude indicator system. B. W. Pike. 2,589,860, Mar. 18.
Amide-epoxide compositions, etc. S. O. Greenlee. 2,589,245, Mar. 18.
Aminophenylsulfonylphenylaminoalkanoic acids. A. L. Rawlins. 2,589,211, Mar. 18.
Ammonium nitrate-containing composition, Producing. J. Taylor and J. Whetstone. 2,590,054, Mar. 18.
Amplifier and electrode structures therefor, Semiconductor. J. Bardeen and W. H. Brattain. 2,589,658, Mar. 18.
Amplifier system. H. G. de France and H. Ernyei. 2,589,542, Mar. 18.
Anchor for decoys. F. W. Wenner. 2,589,913, Mar. 18.
Angle gear-transmission coupling for rotary tools. C. Kostka. 2,589,822, Mar. 18.
Animal trap. H. C. Howrey. 2,589,385, Mar. 18.
Antenna. R. W. P. King. 2,589,918, Mar. 18.
Antenna positioning system. R. I. Hulsizer, Jr. 2,589,813, Mar. 18.
Antenna system. D. F. Bowman. 2,589,664, Mar. 18.
Anticaking agent for cleansing powder. P. Bradford and H. J. White. 2,589,330, Mar. 18.
Apparatus for assembling a predetermined quantity of sticks. L. F. Spinney. 2,589,886, Mar. 18.
Apparatus for baking lacquer on metal articles. F. Netschert. 2,589,424, Mar. 18.
Apparatus for charting geographical profile. J. J. Braund. 2,589,923, Mar. 18.
Apparatus for cleaning, dressing, and grinding wheels. G. H. Leffel. 2,589,620, Mar. 18.
Apparatus for continuous seaming of pile floor coverings. A. T. Dildilian and K. M. Wood. 2,589,929, Mar. 18.
Apparatus for continuously making vulcanized articles. R. C. Lawrence. 2,589,713, Mar. 18.
Apparatus for determining flame blowout in jet engines. C. W. Skarstrom. 2,589,971, Mar. 18.
Apparatus for distributing soluble material. I. E. Aske. 2,589,595, Mar. 18.
Apparatus for feeding carbon interleaved sheets to typewriters and like imprinting machines. J. W. Randall. 2,590,037, Mar. 18.
Apparatus for fixing relative positions of members photographed on motion-picture film. S. Kneitel. 2,589,825, Mar. 18.
Apparatus for forming strandlike products on a carrier. J. R. Taplinger. 2,589,518, Mar. 18.
Apparatus for hardening rolls. F. O. Hess and J. Kniveton. 2,589,495, Mar. 18.
Apparatus for heating and mixing plastic compositions. E. Mittelmann. 2,589,417, Mar. 18.
Apparatus for laying concrete. C. H. Shook. 2,589,634, Mar. 18
Apparatus for lowering burial caskets into crypts. J. B. and O. A. Sinner. 2,589,882, Mar. 18.
Apparatus for measuring muscular strength. J. Timmerman. 2,590,035, Mar. 18.
Apparatus for producing curved or plane surfaces. C. F. Root. 2,590,042, Mar. 18.
Apparatus for sealing off wells being drilled. W. H. Fletcher. 2,589,430, Mar. 18.
Apparatus for separating products. L. and F. Pearman. 2,589,957, Mar. 18.
Apparatus for spinning solutions of high polymers. P. Sale and J. A. Trillat. 2,589,870, Mar. 18.
Applying a discontinuous coating to paper. P. A. Snowman, Jr. 2,589,302, Mar. 18.
Aromatic ether-ester of diglycolic acid. J. D. Brandner. 2,589,666, Mar. 18.
Arrangement in automatic record changers. J. C. Stannow. 2,589,515, Mar. 18.
Artificial crystals, Manufacture of. M. Tournier. 2,589,310, Mar. 18.
Ash removal device. J. Martin. 2,589,836, Mar. 18.
Ash tray. E. M. Brunsvold. 2,589,989, Mar. 18.
Athodyd having air permeable converging intake section for boundary layer controls. R. Leduc. 2,589,945, Mar. 18.
Atomizer, Liquid fuel. W. J. Linn. 2,589,946, Mar. 18.
Attachment for automobile sun visors. E. P. Diefenbach. 2,589,348, Mar. 18.
Attachment for laundry machines. J. H. Leef. 2,589,619, Mar. 18.
Automatic interlock for pusher machines and coke guide machines. P. H. Lavely. 2,589,266, Mar. 18.
Automatic pilot. R. J. Kutzler and T. J. Wilson. 2,590,020, Mar. 18.
Automatic poultry feeder. W. P. Graetz. 2,589,690, Mar. 18.
Automatic power table for side service hearses. E. L. Schofield. 2,589,295, Mar. 18.
Automatic pump assembly primer. A. S. Soberg. 2,589,443, Mar. 18.
Azo dyestuffs. R. Neier and W. Wehrli. 2,589,955, Mar. 18.
Baby crib, Portable folding. J. M. Hausner, Jr. 2,589,805, Mar. 18.
Bake pan unit. J. L. Darnell. 2,589,605, Mar. 18.
Baked confection and mold for same. C. A. Krens. 2,589,823, Mar. 18.
Bale conveyer for rotary baler. F. J. and M. L. McAlpine, and R. E. L. Aldrich, Jr. 2,589,837, Mar. 18.
Baled straw shredder. E. U. Whitacre. 2,590,056, Mar. 18.
Bar mounting. O. E. Stelzer. 2,589,516, Mar. 18.
Barrel bedding device for rifles. L. S. Weld. 2,589,912, Mar. 18.
Barrow attachment for lawn mowers. A. W. Bachman. 2,589,325, Mar. 18.
Basic esters of substituted benzoylaliphatic acids and salts thereof. R. R. Burtner. 2,589,224, Mar. 18.
Basket carrying carriage. H. I. Sides. 2,590,048, Mar. 18.
Bath fixture, Rectangular. M. M. Ocaña. 2,589,280, Mar. 18.
Battery plate. M. W. Dickover. 2,589,681, Mar. 18.
Bearing: *See*—
Roller bearing.
Bed and platen duplicating machine. R. M. Ford. 2,589,789, Mar. 18.
Bedclothes holder. C. L. Casey. 2,589,476, Mar. 18.
Belt conveyer system. R. M. Buckeridge. 2,589,220, Mar. 18.
Beverage brewer. C. N. Crossley, R. J. Gagan, H. R. Karlen, and H. W. Peters. 2,589,783, Mar. 18.
Blending of hydroformer feed stocks. B. B. Woertz, L. M. Henderson, and C. M. Ridgway. 2,589,523, Mar. 18.
Blouse. W. J. Leichter. 2,589,409, Mar. 18.
Blur preventing means for rotary envelope printing mechanism. A. Novick. 2,589,848, Mar. 18.
Board: *See*—
Multiple station game board.
Work progress board.
Boron chloride production from an alloy of boron with tantalum. C. A. Hutchinson, Jr., and J. S. Smith. 2,589,391, Mar. 18.
Bottle carrier. R. W. Stevenson. 2,589,452, Mar. 18.
Bottle carrier and handle for use therewith. I. Nadolsky and L. D. Morehouse. 2,589,423, Mar. 18.
Bottle seal cutter. L. J. Smith. 2,589,742, Mar. 18.
Brake head mounting. F. E. Bachman. 2,590,062, Mar. 18.
Brush, Sectional. E. Cortes. 2,589,779, Mar. 18.
Buckling folding machine. F. J. Rouan and J. W. Bach. 2,589,436, Mar. 18.
Building construction. E. L. Sheppard. 2,589,879, Mar. 18.
Bulb setter. E. C. Chatfield. 2,589,774, Mar. 18.
Bumper structure. L. D. Thostenson. 2,589,644, Mar. 18.

Burner: *See*—
Internally fired safety pilot gas burner.
Rotary reaction nozzle fuel burner.
Butadiene-acrylonitrile copolymer latex of high solids content, Producing a. E. Arundale and F. Bascom. 2,589,919, Mar. 18.
Cabinet: *See*—
Ledger tray cabinet.
Lubrication cabinet.
Cable: *See*—
Expanded electrical transmission cable.
Cable outside insulation stripper. E. I. and H. M. Ayers. 2,589,471, Mar. 18.
Cable shortening device. W. Einicky. 2,589,543, Mar. 18.
Cacao-milk beverage material, Producing. G. Grindrod. 2,589,801, Mar. 18.
Calcium metaphosphate, Production of. P. Miller. 2,589,272, Mar. 18.
Camera holder. H. Suzukawa. 2,589,892, Mar. 18.
Can holding, opening, and pouring device. R. L. Stoecker. 2,589,890, Mar. 18.
Cane tip. J. G. W. Stults. 2,590,052, Mar. 18.
Car: *See*—
Mine shuttle car.
Railway car.
Car washer of the rotary power-driven brush type, Two-way. L. D. Holmes. 2,589,255, Mar. 18.
Carbon sheet arrangement for use with continuous stationery. J. W. Randall. 2,590,038, Mar. 18.
Carbonizing unit. S. Thomsen. 2,589,895, Mar. 18.
Carrier: *See*—
Bottle carrier.
Sectionalized bottle carrier.
Vaporizer carrier.
Carrier for use on top of automobiles. R. E. and H. A. Carter. 2,589,772, Mar. 18.
Case: *See*—
Drill case.
Magnetic key case.
Case or the like, Pass. D. J. Broughton. 2,589,667, Mar. 18.
Caster. W. H. Noelting and J. A. Skupas. 2,589,847, Mar. 18.
Catalyst stripping of fouled catalysts employed in hydrocarbon conversion processes. W. H. Borcherding. 2,589,984, Mar. 18.
Cathode heater structure. W. Wheeler. 2,589,522, Mar. 18.
Cellarette. J. C. Siegel. 2,589,441, Mar. 18.
Centrifugal molding machine. F. S. Medina, and L. M. and A. M. Tey. 2,589,950, Mar. 18.
Centrifugal regulator for automatically controlling the action moment of apparatus of variable rotating speed. J. Hövel. 2,589,496, Mar. 18.
Chain: *See*—
Key chain.
Chain coupling. C. M. Faber. 2,589,355, Mar. 18.
Chain distributor type poultry feeding device. G. L. and C. H. Kitson. 2,589,706, Mar. 18.
Chain link, Yieldable. G. E. Sprague. 2,589,887, Mar. 18.
Chair: *See*—
Folding chair.
Change-speed gearing multiple drive transmission. I. Moore. 2,589,844, Mar. 18.
Chlorofluorocarbon and making the same, E. L. Kropa and J. J. Padbury. 2,590,019, Mar. 18.
Choke for oil wells, Adjustable. W. E. Hammock. 2,589,373, Mar. 18.
Choline gallate and its preparation. J. Korner. 2,589,707, Mar. 18.
Choline salts of bile acids, Preparing. A. E. Meyer. 2,589,840, Mar. 18.
Chute for the delivery of material such as coal. D. Jackson and J. Thomson. 2,589,814, Mar. 18.
Circuit: *See*—
Electrical integration circuit.
Electronic timing circuit.
Loop antenna tuning circuit.
Pulse discriminator circuit.
Radio-frequency circuit.
Vernier ranging circuit.
Voltage pulse generating circuit.
Circuit arrangement for time subdivision. G. D. Browne. 2,589,334, Mar. 18.
Circuit for electronic amplifiers, Safety control. B. T. Setchell. 2,589,299, Mar. 18.
Circuit for radio receivers, Off-channel squelch. L. Y. Lacy. 2,589,711, Mar. 18.
Circular saw safety guard. J. E. Tompkins. 2,589,309, Mar. 18.
Clip: *See*—
Paper clip.
Closed fluid-operated free-pump system with three concentric tubings. C. J. Coberly. 2,589,669, Mar. 18.
Closed fluid-operated free-pump system with three parallel tubings. C. J. Coberly. 2,589,671, Mar. 18.
Closed fluid-operated free-pump system with two parallel tubings, one of which encloses a third tubing. C. J. Coberly. 2,589,670, Mar. 18.
Closed fluid-operated free-pump system with two parallel tubings within a third tubing. C. J. Coberly. 2,589,672, Mar. 18.
Cloth roll control mechanism. A. E. Zabriskie and W. E. Lundgren. 2,589,524, Mar. 18.
Clothes hanger. I. Scott-Dalgleish. 2,589,737, Mar. 18.
Clutch: *See*—
Fluid actuated clutch.
Shift-lever controlled automotive clutch.
Clutch and brake for motor drives. W. H. Lewin. 2,589,830, Mar. 18.
Clutch and brake mechanism for motor vehicles, Dual control. R. B. Sprinkel, H. D. Umstott, and H. E. Knight, Jr. 2,589,975, Mar. 18.
Clutch control mechanism. H. W. Price. 2,589,628, Mar. 18.
Clutch control mechanism. R. H. Wheeler. 2,589,649, Mar. 18.
Clutch mechanism, Latch type. W. H. Bradley. 2,589,665, Mar. 18.
Clutch plate. H. Nutt and H. V. Reed. 2,589,508, Mar. 18.
Clutch with spring supported pressure plate, Friction. W. V. Thelander. 2,589,308, Mar. 18.
Coal delivery truck and depositing conveyor. S. J. Bruno. 2,589,988, Mar. 18.
Coat-tree for passenger vehicles. C. B. Hay. 2,589,611, Mar. 18.
Coaxial transmission line spacing assembly. L. A. Bondon. 2,589,328, Mar. 18.
Cocktail shaker. P. Meshberg. 2,589,415, Mar. 18.
Coffee maker. L. Burgess. 2,589,221–2, Mar. 18.
Coffee maker. L. Burgess. 2,589,335–6, Mar. 18.
Coin selector, Electrical. B. A. Andrews. 2,589,214, Mar. 18.
Collating machine. L. C. Pearce. 2,589,428, Mar. 18.
Color television light divider. G. L. Dimmick and M. E. Widdop. 2,589,930, Mar. 18.
Colored images, Production of. L. R. Koller and F. E. Williams. 2,590,018, Mar. 18.
Comb. J. Zerbo. 2,589,469, Mar. 18.
Combination duplex collapsible container and dispensing means. T. W. Snaith. 2,589,743, Mar. 18.
Combination faucet. F. Pena. 2,589,857, Mar. 18.
Combination work positioning and holding tool for layout and light finishing of work. H. Fuhr. 2,589,489, Mar. 18.
Combined boring and turning tool. A. F. Pekrul. 2,590,068, Mar. 18.
Combined chalk-line box and plumb bob. R. K. Landon and J. R. Thomson. 2,589,500, Mar. 18.
Combined tabulator and summary punch. F. A. Shultz, F. C. Gressel, O. J. Hobb, and G. H. Kroeger. 2,590,047, Mar. 18.
Communication system. L. W. Parker. 2,589,285, Mar. 18.
Concrete block molding machine. F. E. Asbell. 2,589,594, Mar. 18.
Concrete drilling device. E. W. Taylor. 2,590,053, Mar. 18.
Condenser: *See*—
Electrical condenser.
Variable condenser.
Conduit box and cable connector, Combination. A. W. and D. G. Givens. 2,590,004, Mar. 18.
Confection machine. W. P. Spain. 2,590,051, Mar. 18.
Connector: *See*—
Pigtail electric connector.
Constant current regulator. E. W. Clark. 2,589,991, Mar. 18.
Construction for electric heaters for flexing bars. M. Ireland. 2,589,614, Mar. 18.
Contacting gases and pulverized solids, Method and apparatus for. D. H. Putney. 2,589,862, Mar. 18.
Container filling machine having feed screw with cylindrical bore forming member. F. G. Thompson. 2,589,583, Mar. 18.
Container sealing machine. H. B. Silver. 2,589,740, Mar. 18.
Continuous strand helical conveying apparatus. E. T. Lorig. 2,589,411, Mar. 18.
Control apparatus. A. E. Baak. 2,589,597, Mar. 18.
Control device. T. E. Larkin. 2,590,022, Mar. 18.
Control governor for fluid-operated pumps. C. J. Coberly. 2,589,668, Mar. 18.
Control valve for telemotor type hydraulic power lift. J. R. Orelind and C. W. Mott. 2,589,850, Mar. 18.
Controlling color and flavor in potato chips. P. A. Xander. 2,589,591, Mar. 18.
Controlling drilling fluid viscosity. V. G. Meadors. 2,589,949, Mar. 18.
Conveyor, Fish. N. Kaplan. 2,589,701, Mar. 18.
Corn snapping roll construction. D. M. Miller. 2,589,841, Mar. 18.
Correcting foot deformities. L. B. Galhouse and H. N. Lurie. 2,589,241, Mar. 18.
Counting and recording apparatus. T. T. Rembusch and H. P. Wolfberg. 2,589,432, Mar. 18.
Coupling: *See*—
Chain coupling.
Cover for cabinets and other objects, Outside. A. R. Johnson. 2,589,699, Mar. 18.
Crib sheet with a pajama back. B. J. Auer. 2,589,596, Mar. 18.
Crushing machine. H. Cohen. 2,589,603, Mar. 18.
Cup, Drinking. L. T. Sawyer. 2,589,967, Mar. 18.

Cutter: *See*—
Bottle seal cutter. Tile cutter.
Grain cutter.
Cutter attachment for toggle-actuated plier-type wrenches. C. Petersen. 2,590,031, Mar. 18.
Cutter for biscuits and cracker cutting and embossing machines. J. E. and R. M. Weidenmiller. 2,589,907, Mar. 18.
Cycloalkane oxidation. F. T. Wadsworth. 2,589,648, Mar. 18.
Dehydration of steroid side-chain secondary alcohols. G. B. Spero, R. H. Levin, and F. W. Heyl. 2,589,305, Mar. 18.
Demountable propelling unit for vehicles. R. E. Franks. 2,589,793, Mar. 18.
Deoxygenating and isomerizing a Fischer-Tropsch stock. C. W. Montgomery and W. I. Gilbert. 2,589,273, Mar. 18.
Desk pad holder. R. G. Kensel. 2,589,396, Mar. 18.
Device for automatic frequency-correction. E. H. Hugenholtz. 2,589,387, Mar. 18.
Device for cutting a slab from a block of soft material such as butter or cheese. M. J. Weinberg. 2,589,911, Mar. 18.
Device for fixing the outer end of a hairspring to the cock of timepieces. F. Martl. 2,589,717, Mar. 18.
Device for forming and applying bobby pins to flat curls. W. F. Feyrer. 2,589,487, Mar. 18.
Device for measuring front-wheel play. O. J. Bullinger. 2,589,770, Mar. 18.
Device for tensioning the weft thread in looms. E. Pfarrwaller. 2,589,429, Mar. 18.
Diamond type tooth for rotary stone cutting saws. V. J. Fantozzi and L. H. Metzger. 2,589,357, Mar. 18.
Diffusion apparatus. A. J. P. Oller. 2,589,568, Mar. 18.
Dimensionally stable hardened copolymer monohydric phenol, dihydric phenol-aldehyde resinous mass, Production of. P. H. Rhodes. 2,589,286, Mar. 18.
Direction and distance finding equipment. R. J. Hardy. 2,589,249, Mar. 18.
Disiloxane dibasic acids, Production of. L. H. Sommer. 2,589,446, Mar. 18.
Dispenser and spreader, Fluent material. R. W. Turner. 2,589,311, Mar. 18.
Dispenser for food boxes, Sanitary. J. H. Malachick. 2,589,835, Mar. 18.
Dispenser for rolled paper with automatic holding brake. S. E. Weaklend and L. L. Simpson. 2,589,587, Mar. 18.
Dispensing device for tablets and the like. C. Habicht. 2,589,936, Mar. 18.
Distillation apparatus and method. A. Latham, Jr. 2,589,406, Mar. 18.
Dithiocarbamate-aldehyde condensation polymers. O. Kardos. 2,589,209, Mar. 18.
Doll's eye. J. O. Wagner. 2,589,462, Mar. 18.
Door: *See*—
Garage door. Sliding door.
Doorframe. J. Raskin. 2,589,864, Mar. 18.
Door frame for railway hopper cars. W. E. Wine. 2,589,468, Mar. 18.
Door latch. A. Sorenson. 2,589,637, Mar. 18.
Door latch for vehicles, Safety. E. Hodaly. 2,589,809, Mar. 18.
Door lock. J. P. Beelaerts van Blokland. 2,589,749, Mar. 18.
Door operator. G. A. Curtis. 2,589,479, Mar. 18.
Door operator, Automatic. G. A. Curtis. 2,589,480, Mar. 18.
Door operator, Garage. G. A. Curtis. 2,589,478, Mar. 18.
Double pulse generator. W. E. Frye. 2,589,240, Mar. 18.
Dowel structure. E. J. Webb. 2,589,464, Mar. 18.
Draft connection. E. P. Kinne. 2,589,264, Mar. 18.
Drain closure unit. O. F. Couchot. 2,589,540, Mar. 18.
Drier. C. S. O'Neil. 2,589,284, Mar. 18.
Drill: *See*—
Lawn seed drill.
Drill case. O. W. and J. M. Anderson. 2,589,593, Mar. 18.
Drill guiding assembly. R. Q. Buttolph. 2,589,534, Mar. 18.
Drillable packer. O. L. Morrisett. 2,589,506, Mar. 18.
Drive for washer of mechanical rotary seals. C. E. Schmitz. 2,589,631, Mar. 18.
Dry printing and developing machine. F. O. Trump. 2,589,748, Mar. 18.
Drying apparatus. F. W. Koster and L. A. Oberly. 2,589,400, Mar. 18.
Drying of solid adsorbents. R. L. Weeks. 2,589,981, Mar. 18.
Dyeing of cellulosic textile materials by forming lakes of basic dyes in the fibers. W. S. Miller. 2,589,953, Mar. 18.
Dynamoelectric machine. K. M. Feiertag and J. T. Donahoo. 2,589,999, Mar. 18.
Ear notching tool. E. A. Stone. 2,589,891, Mar. 18.
Earth compacting roller implement. R. G. Le Tourneau. 2,589,829, Mar. 18.
Educational device. H. V. and D. D. Hobba. 2,589,695, Mar. 18.
Egg breaker and separator. O. J. Le Boeuf. 2,589,408, Mar. 18.
Electric cable sheathing. H. G. Johnstone. 2,589,700, Mar. 18.
Electric melting furnace. A. D. Smith. 2,589,301, Mar. 18.
Electric motor. F. A. Quick. 2,589,959, Mar. 18.
Electric steaming iron. R. G. Boardman and A. P. Thomas. 2,589,921, Mar. 18.
Electric vehicle running between two charging stations without a contact-line. B. Storsand. 2,589,453, Mar. 18.
Electric water-heating system. F. G. Neth and J. F. Templeman. 2,589,566, Mar. 18.
Electrical condenser. A. Liechti. 2,589,831, Mar. 18.
Electrical drying device. E. C. Landon. 2,590,021, Mar. 18.
Electrical indicator of mechanical expansion. K. B. Blodgett and V. J. Schaefer. 2,589,983, Mar. 18.
Electrical integration circuit. W. A. Higinbotham. 2,589,807, Mar. 18.
Electrical surge discharge power unit. C. C. Robinson. 2,590,069, Mar. 18.
Electrical water gauge. H. O. Lee. 2,589,714, Mar. 18.
Electrochemical process. G. B. L. Smith and M. W. Leeds. 2,589,635, Mar. 18.
Electrode assemblies, Making. P. L. Reed. 2,589,961, Mar. 18.
Electrolytic production of ammonium persulphate solutions. W. S. Wood, G. Clennett, and H. L. Hulland. 2,589,982, Mar. 18.
Electromagnetic reset valve. W. A. Ray. 2,589,573, Mar. 18.
Electromagnetic valve. W. A. Ray. 2,589,574, Mar. 18.
Electronic commutator. W. G. Tuller. 2,589,460, Mar. 18.
Electronic control for monorail hoists or the like. C. E. Dougherty and E. E. Minor. 2,589,998, Mar. 18.
Electronic device. M. McMath. 2,589,720, Mar. 18.
Electronic discharge tube with a plurality of plate-grid systems. L. W. Koehler. 2,589,397, Mar. 18.
Electronic timing circuit. L. F. Mayle. 2,589,270, Mar. 18.
Electrostatic precipitator. R. W. Warburton. 2,589,463, Mar. 18.
Elements per unit length counter mechanism. H. C. Slechta. 2,589,741, Mar. 18.
Elevator. D. Santini. 2,589,292, Mar. 18.
Elevator dispatching and control system. W. F. Glaser and S. A. Hornung. 2,589,242, Mar. 18.
Elevator for vehicles, Goods. J. Archer. 2,589,654, Mar. 18.
Eliminating corrosion due to galvanic current set up by dissimilar metals in the presence of an ionized solution. P. W. Uhl. 2,589,461, Mar. 18.
Embossing cutter for crackers and biscuit cutting and embossing machines. E. A. Weidenmiller. 2,589,908, Mar. 18.
Emergency portable light. E. L. Tedeschi. 2,589,747, Mar. 18.
Emergency valve. J. H. De Frees. 2,589,346, Mar. 18.
End underframe for railway cars. A. G. Dean. 2,589,996, Mar. 18.
Engine: *See*—
Internal-combustion engine. Variable compression ratio internal-combustion engine.
Jet engine.
Engine driving mechanism. R. Abell. 2,589,470, Mar. 18.
Epicyclic helicopter rotor system. A. E. Larsen. 2,589,826, Mar. 18.
Evaporator for household refrigerators. H. A. Goldberg. 2,589,490, Mar. 18.
Expanded electrical transmission cable. M. E. Noyes. 2,589,507, Mar. 18.
Extruder injector combination for use in the attachment of heels to shoes. J. W. Ashley and J. F. Leahy. 2,589,323, Mar. 18.
Eyeshield, Protective. H. M. Richardson and W. S. Larson. 2,589,575, Mar. 18.
Fastener: *See*—
Safety window guard fas- Store front pane fastener.
tener.
Feeder: *See*—
Automatic poultry feeder.
Feeding device for box-part assembling machines. C. A. Burkholder. 2,589,600, Mar. 18.
Feeding of internal-combustion engines. M. C. Carbonaro. 2,589,536, Mar. 18.
Fiber conditioning machine. R. E. Getchell. 2,589,797–8, Mar. 18.
Filing apparatus. R. B. Holt. 2,589,383, Mar. 18.
Film rewinding apparatus. P. F. Glenn. 2,590,005, Mar. 18.
Filter: *See*—
Oil filter.
Finishing machine for elongated tapered articles. D. M. Kitterman. 2,589,616, Mar. 18.
Fish bait. P. P. Cieslik. 2,589,343, Mar. 18.
Fish bait. E. L. Farley. 2,589,932, Mar. 18.
Fish gaff. B. L. Herrington. 2,589,612, Mar. 18.
Fishhook guard. E. H. Roeben. 2,589,435, Mar. 18.
Fishhook remover. R. N. Steele. 2,589,976, Mar. 18.
Fish lure, Whistling artificial. L. W. Shahan. 2,589,970, Mar. 18.
Fishing reel. R. D. Colgrove. 2,589,776, Mar. 18.
Fishing signal. J. W. Fowler. 2,589,610, Mar. 18.
Fixture for cameras or other similar apparatus. T. J. H. Wallenius. 2,589,520, Mar. 18.
Flexible metal compounds. J. F. Joy. 2,589,394, Mar. 18.
Flooring jack. L. H. Lab. 2,589,404, Mar. 18.
Flow control device. W. J. Stampfl. 2,589,888, Mar. 18.

Flow line sampler. R. M. Langsenkamp and J. M. Trimble. 2,589,712, Mar. 18.
Fluid actuated clutch. R. E. Sanford. 2,589,291, Mar. 18.
Fluid operated measuring or control apparatus. W. B. Heinz. 2,589,251, Mar. 18.
Fluid pressure clutch-actuating means for motor vehicles. R. H. Hill. 2,590,012, Mar. 18.
Fluid seal packing. K. H. Knight. 2,590,017, Mar. 18.
Fluorescent agents. P. E. Hoch and W. H. Libby. 2,589,519, Mar. 18.
Flush tank with float outlet valve, Hydropneumatic. C. Griffon. 2,589,691, Mar. 18.
Flywheel energy storage system, particularly for electric vehicles. B. Storsand. 2,589,454, Mar. 18.
Folder for bills or the like and pocket construction. H. M. Herbener. 2,589,546, Mar. 18.
Folding chair. E. C. Hake. 2,589,372, Mar. 18.
Force measuring device. L. La Coste and A. Romberg. 2,589,709, Mar. 18.
Force measuring device. L. La Coste and J. B. and A. Romberg. 2,589,710, Mar. 18.
Form for windings and the like. W. F. Stahl. 2,589,640, Mar. 18.
Formation and casing tester. T. B. Dunn. 2,589,606, Mar. 18.
Forming articles such as spectacle frames. L. J. Moncrieff. 2,589,419, Mar. 18.
Forming circular cutters. M. J. Steffes. 2,589,451, Mar. 18.
Forming hollow plastic. H. C. Engel, R. Raab and T. Pajak. 2,589,786, Mar. 18.
4-aryl-4-acyl-oxy-piperidines. K. A. Jensen. 2,589,943, Mar. 18.
Frame: *See*—
Hammer frame.
Frangible plate securing means for bed and cylinder printing machines. A. Schaller. 2,590,044, Mar. 18.
Fruit pitting chuck. G. W. Ashlock, Jr. 2,589,324, Mar. 18.
Fruit press. R. S. Miller. 2,589,724, Mar. 18.
Fulvene hydrocarbons, Production of. H. G. Schutze and E. F. Wadley. 2,589,969, Mar. 18.
Furfuryl alcohol-ammonium thiocyanatealdehyde resins. A. P. Dunlop and P. R. Stout. 2,589,683, Mar. 18.
Furnace: *See*—
Electric melting furnace.
Horizontal forced air flow air-heating furnace.
Furnace with removable heating unit, Floor. H. W. Kelly. 2,589,702, Mar. 18.
Fuse type hydraulic valve. C. A. Ratkoviak. 2,589,731, Mar. 18.
Fuses and composition therefor, Manufacture of. H. Zenftman and J. E. Forlin. 2,590,060, Mar. 18.
Game, Inclined plane magnetic. G. E. Frazier. 2,590,002, Mar. 18.
Garage door. R. L. Hanrahan. 2,589,938, Mar. 18.
Garment construction. A. A. Goldstein. 2,589,367, Mar. 18.
Garment hanger. H. C. Cook, Sr. 2,589,926, Mar. 18.
Garment hanger. J. A. Moore. 2,589,564, Mar. 18.
Garment having girth adjusting fastener means, Body. J. L. Wyner. 2,589,916, Mar. 18.
Garment rack. R. A. Magnuson and N. M. Christiansen. 2,589,269, Mar. 18.
Garment rack. R. A. Magnuson and N. M. Christiansen. 2,589,947, Mar. 18.
Garment, Safety. M. R. Koster. 2,589,708, Mar. 18.
Garment, Shooting. H. O. Smith. 2,589,636, Mar. 18.
Gas atmosphere generating means for heat-treating furnaces. W. H. Holcroft. 2,589,811, Mar. 18.
Gas atmosphere, Preparing. W. H. Holcroft. 2,589,810, Mar. 18.
Gas burning metal tire heater. A. J. Corns. 2,589,778, Mar. 18.
Gasoline-electric drive for vehicles. O. F. Quartullo. 2,589,863, Mar. 18.
Gate valve. P. Y. Duffee. 2,589,784, Mar. 18.
Gauge: *See*—
Electrical water gauge.
Wood planer blade setting gauge.
Gear-cutting apparatus. A. F. Zamis. 2,589,759, Mar. 18.
Generating gases within plastic materials. P. J. Carpentier. 2,589,537, Mar. 18.
Generator: *See*—
Double pulse generator. Signal generator.
Sectional demountable Ultrasonic generator.
steam generator.
Glove. B. Kennedy. 2,590,015, Mar. 18.
Goggles. W. L. Seidel. 2,589,439, Mar. 18.
Golf tee. J. F. Barrett. 2,589,763, Mar. 18.
Grain cutter. E. P. Symons. 2,589,307, Mar. 18.
Grapple for handling barrels. D. Anderson. 2,589,918, Mar. 18.
Gravity actuated door mounting. J. V. Miller. 2,590,028, Mar. 18.
Grinding mill. R. Zückert. 2,589,917, Mar. 18.
Grinding wheel. W. A. Belcher, Jr. 2,589,661, Mar. 18.
Guard for sewing machines. O. M. Holmes. 2,589,382, Mar. 18.
Gyroerection system. R. R. Seliger. 2,589,874, Mar. 18.
Hairbrush with removable head, Sanitary. M. H. Storch. 2,589,746, Mar. 18.
Hair curler. D. D. Loewenstein. 2,589,832, Mar. 18.
Hair curler. E. Ratner and A. Pastore. 2,589,510, Mar. 18.
Hair trimming device. R. P. M. Davis and N. Shaeffer. 2,589,230, Mar. 18.
Half-life determining method. C. E. Wiegand. 2,590,057, Mar. 18.
Hammer frame. R. A. Kropp. 2,589,402, Mar. 18.
Hammer knife mower. C. W. Mott. 2,589,845, Mar. 18.
Handle for brief cases, Slide-in. H. Schneider. 2,589,438, Mar. 18.
Hanger: *See*—
Adjustable clothes hanger. Garment hanger.
Clothes hanger. Liner hanger.
Harvester, Beet. E. J. Floeter and E. V. Waack. 2,589,361, Mar. 18.
Hay hoist. A. Pehrson. 2,589,856, Mar. 18.
Heat exchanger. P. C. Keith. 2,589,262, Mar. 18.
Heat exchanger. A. C. Rathkey. 2,589,730, Mar. 18.
Heater exchanger with scraper, Rotary cylinder. R. S. Edmunds, Jr. 2,589,350, Mar. 18.
Heat-sealing machine. H. F. Waters. 2,589,756, Mar. 18.
Heater: *See*—
Gas burning metal tire heater.
Immersion heater.
Heater. W. Wheeler and W. C. Wicke. 2,589,521, Mar. 18.
Helicopter rotor construction. J. A. J. Bennett. 2,589,527, Mar. 18.
High-frequency alternating current bridge. R. Calvert. 2,589,535, Mar. 18.
High lift wing channel with movable wing. W. R. Custer. 2,589,994, Mar. 18.
High-molecular weight halogenated materials stabilized with a mixture of an epoxy compound and a carboxylic acid salt. D. E. Winkler. 2,590,059, Mar. 18.
High-pressure reaction of carbon monoxide with hydrazine. H. J. Sampson, Jr. 2,589,289, Mar. 18.
Holder: *See*—
Bedclothes holder. Reed holder.
Camera holder. Shoulder protector and garment strap holder.
Desk pad holder. Wire insulator holder.
Nasal tube holder.
Hook: *See*—
Pull actuated trap hook.
Horizontal forced air flow air-heating furnace. W. A. King and A. J. Bailey. 2,589,555, Mar. 18.
Hose guide. C. W. Ginter. 2,589,544, Mar. 18.
Hose support for plastic tubes. J. Costello and H. S. Price, Jr. 2,589,780, Mar. 18.
Hydraulic coupling for use between a driving and a driven element. H. L. Foster. 2,589,362, Mar. 18.
Hydraulic power control. G. D. Shaeffer. 2,589,877, Mar. 18.
Hydraulic steering motor and shimmy dampener. H. L. Chisholm, Jr., G. Farrell and B. E. O'Connor. 2,589,341, Mar. 18.
Hydrazobisalkanesulfonate polymerization catalyst for ethylenically unsaturated monomers. E. G. Howard, Jr. 2,589,258, Mar. 18.
Hydrocarbon synthesis. V. L. Cain and C. E. Hemminger. 2,589,925, Mar. 18.
Hydroxyphenyl-cinnamic nitriles and process. H. Henecka. 2,589,377, Mar. 18.
Hydroxy-tetrahydro-napthoyl-alkanoic acids. R. R. Burtner. 2,589,223, Mar. 18.
Hygrometer of the wet and dry bulb thermometer type. A. H. Lamb. 2,589,557, Mar. 18.
Ice pack formed of vinyl plastic sheeting. M. Rosenthal and J. Robinson. 2,589,577, Mar. 18.
Illuminating device for motion-picture projecting or viewing apparatus. G., Jr., and M. Sabol. 2,589,437, Mar. 18.
Immersion heater. C. Bellucci. 2,589,473, Mar. 18.
Impulse delay apparatus. C. H. Hoeppner. 2,589,254, Mar. 18.
Indexing mechanism. M. H. Emrick. 2,589,486, Mar. 18.
Indicating device for regulation of timepieces. E. E. Wiford. 2,589,467, Mar. 18.
Indicator for hydraulic rams. W. G. Toland. 2,589,896, Mar. 18.
Indicator for motor vehicles, Mileage service. M. M. Merritt and J. W. Dadisman. 2,589,623, Mar. 18.
Industrial liquid cooler automatic liquid level control. C. L. Ash. 2,590,061, Mar. 18.
Injector. R. W. Ogle. 2,589,426, Mar. 18.
Instrument, Contour describing. A. W. Gaubatz. 2,589,365, Mar. 18.
Instrument, Gyroscopic. P. E. Seifried. 2,589,873, Mar. 18.
Insulating and heating jacket for food containers. M. D. Tiegel. 2,589,645, Mar. 18.
Interlocking structural units. W. B. Spangler. 2,589,304, Mar. 18.
Intermittent movement. A. F. Hayek. 2,589,940, Mar. 18.
Internal-combustion engine. B. Ferguson. 2,590,000, Mar. 18.

Internal-combustion engine power plant. L. F. R. Fell. 2,589,788, Mar. 18.
Internally fired safety pilot gas burner. J. L. Harris and C. Hotchkiss. 2,589,804, Mar. 18.
Interpolymers and making same. F. Armitage and E. S. J. Fry. 2,589,655, Mar. 18.
Ion controller. W. W. Hicks. 2,589,613, Mar. 18.
Iron: *See*—
Electric steaming iron. Soldering iron.
Irrigating apparatus, Pneumatically operated. E. O. Pratt. 2,589,728, Mar. 18.
Irrigation system. W. A. Anderson. 2,589,321, Mar. 18.
Jack: *See*—
Flooring jack. Key jack.
Jet engine. J. D. Atwood. 2,589,215, Mar. 18.
Jet propelled aircraft. H. Rivière. 2,589,732, Mar. 18.
Jet propulsion plant. R. J. Imbert. 2,589,548, Mar. 18.
Joint: *See*—
Pipe and gasket joint.
Joint for concrete slabs. J. H. Jacobson. 2,589,815, Mar. 18.
Keto acid compounds, Preparation of. L. C. Woods and H. M. Teeter. 2,589,314, Mar. 18.
Key chain. T. M. Jablon. 2,589,260, Mar. 18.
Key ejecting lock. J. Mullan. 2,589,422, Mar. 18.
Key jack. H. E. Queen. 2,589,571, Mar. 18.
Keyed automatic gain control and sync separator. R. Crane, Jr., and L. L. Pourciau. 2,589,927, Mar. 18.
Kit for artists. C. T. Allenbrook. 2,589,320, Mar. 18.
Kitchen pot or pan scraper. W. L. Vinson. 2,589,753, Mar. 18.
Labeling machine. D. H. Fairest. 2,589,787, Mar. 18.
Laminated covering and making same. R. K. Petry. 2,590,032, Mar. 18.
Laminated sheet for use as a wall or floor covering. J. M. Lurie. 2,589,502, Mar. 18.
Lamp having hollow translucent, lamp-socket-supporting members containing translucent electrolyte. H. D. Spence. 2,589,448, Mar. 18.
Lamp replacer for push-pull fixtures. L. Stueland. 2,589,642, Mar. 18.
Landing gear for aircraft, Retractable. R. A. Robert. 2,589,434, Mar. 18.
Lasting machine. L. S. Macdonald. 2,589,412, Mar. 18.
Latch: *See*—
Door latch.
Latch. C. W. Lang. 2,589,405, Mar. 18.
Latch mechanism for perforator matrix elements. N. S. Miller. 2,589,271, Mar. 18.
Laundry sorting apparatus. J. G. Mackechnie, Jr. 2,589,561, Mar. 18.
Lawn seed drill. H. G. and D. B. Newman. 2,589,425, Mar. 18.
Layout spacer or instrument. H. J. Absher. 2,589,525, Mar. 18.
Lead styphnate and manufacturing same. J. F. Kenney. 2,589,703, Mar. 18.
Ledger tray cabinet. A. W. Feiertag. 2,589,358, Mar. 18.
Leg assembly and connecting means for table tops. W. M. McKinney. 2,589,719, Mar. 18.
Lens grinding method and machine. W. D. Fowler. 2,589,488, Mar. 18.
Lift for tractors, Hydraulically operated. J. C. Hawkins. 2,590,011, Mar. 18.
Lift truck accessory. C. O. Christensen. 2,589,342, Mar. 18.
Lifting apparatus. W. P. Neil. 2,589,954, Mar. 18.
Light: *See*—
Emergency portable light.
Lighter. W. F. Wagner. 2,589,906, Mar. 18.
Lighting fixture for circular tubular discharge lamps. E. J. Zelt. 2,589,760, Mar. 18.
Linear polyesters, Preparing. P. J. Flory and F. S. Leutner. 2,589,687–8, Mar. 18.
Liner hanger. E. Burns. 2,589,337, Mar. 18.
Linkage system for a wave-signal receiver of the tilt-out type. E. J. Polley. 2,589,627, Mar. 18.
Liquid dispensing and feeding apparatus. W. F. Cohrs. 2,589,992, Mar. 18.
Liquid proportioning and spraying apparatus. D. G. Griswold. 2,590,007, Mar. 18.
Load equalizing device. M. S. De Lay. 2,589,678, Mar. 18.
Load lifting arrangement. A. Wullschleger. 2,589,915, Mar. 18.
Loading and distributing means for concrete mixers. R. C. Graham. 2,589,492, Mar. 18.
Loading machine. A. L. Lee. 2,589,827, Mar. 18.
Lock: *See*—
Door lock. Key ejecting lock.
Locking device for foot presses. H. E. Henricksen. 2,589,692, Mar. 18.
Locking device for foot presses. L. J. Veilleux. 2,589,752, Mar. 18.
Log or pipe transporter. H. F. Marshall. 2,589,948, Mar. 18.
Loop antenna input circuits. W. F. Sands. 2,589,736, Mar. 18.
Loop antenna tuning circuit. W. J. Stolze. 2,589,745, Mar. 18.
Low capacity gear pump. C. J. Bergsma. 2,589,528, Mar. 18.
Low-temperature defrosting system. R. E. Pabst. 2,589,855, Mar. 18.
Lubricant stick. P. Strughold and J. F. May. 2,589,582, Mar. 18.
Lubricating grease composition. P. V. Smith, Jr., and A. J. Morway. 2,589,973, Mar. 18.
Lubrication cabinet. J. F. Carter. 2,589,538, Mar. 18.
Luggage carrier for bicycles. L. Jette. 2,589,497, Mar. 18.
Luminous flux modulator. M. Morrison. 2,589,421, Mar. 18.
Lysergyl and isolysergyl glycines. A. Stoll, A. Hofmann, E. Jucker, T. Petrzilka, J. Rutschmann, and F. Troxler. 2,589,978, Mar. 18.
Machine for coding labels. H. E. Rue and L. Tigerman. 2,589,512, Mar. 18.
Machine for hooping tubes. R. Gauthier. 2,589,366, Mar. 18.
Machine for inserting pouring spouts into containers. H. Brucker. 2,589,769, Mar. 18.
Machine for polishing blades. J. O. Creek. 2,589,782, Mar. 18.
Machine for prebreaking, gluing, folding, delivering, and stacking creased carton blanks. H. S. Labombarde. 2,589,944, Mar. 18.
Machine for producing gears. L. O. Carlsen and N. W. Fowler. 2,589,475, Mar. 18.
Machine for producing patterns photographically on the surface of copper and like rollers. L. Frank. 2,589,933, Mar. 18.
Machine for stringing hangers and the like. W. J. Vail. 2,589,899, Mar. 18.
Machine for use in the manufacture of shoes. H. A. Imhof. 2,589,392, Mar. 18.
Machine for whipping candy batches. J. Higgins and N. Fiorella. 2,589,381, Mar. 18.
Magazine for safety razor blades. G. R. Mead. 2,589,722, Mar. 18.
Magazine stripping machine. C. A. Cobb. 2,589,673, Mar. 18.
Magnetic instrument high-speed reel drive. H. W. Bauman and M. Sackter. 2,589,660, Mar. 18.
Magnetic key case. E. P. Diefenbach. 2,589,349, Mar. 18.
Magnetic oil seal construction. W. F. Bernstein. 2,589,766, Mar. 18.
Magnetic slate. E. N. Burnett. 2,589,601, Mar. 18.
Mailing envelope, Composite. H. S. Scott. 2,589,632, Mar. 18.
Manifolding and copying apparatus. T. A. Solway. 2,589,884, Mar. 18.
Manufacturing a set of matched rotor blades. A. M. Young. 2,589,316, Mar. 18.
Massaging machine. E. M. Archer. 2,589,322, Mar. 18.
Match box with safety stop. B. J. Fal. 2,589,356, Mar. 18.
Match striking compounds. H. Ellern. 2,589,607, Mar. 18.
Mattress, Foldable. Z. Slayen. 2,589,579, Mar. 18.
Mechanical amusement or exercising horse. H. W. Phillips. 2,589,570, Mar. 18.
Mechanical lead slapper. R. S. Raymond and G. W. McGee. 2,589,629, Mar. 18.
Mechanical tracking device. H. E. Overacker. 2,589,852, Mar. 18.
Melamine formaldehyde scratch resistant coating composition, applying, and article produced thereby. M. H. Nickerson. 2,589,567, Mar. 18.
Mesitylene manufacture. A. P. Lien and D. A. McCaulay. 2,589,621, Mar. 18.
Metal recovery. C. C. Heritage and W. G. Van Beckum. 2,589,252, Mar. 18.
Meter. H. Kenosian. 2,589,263, Mar. 18.
Meter base spreader. J. E. Rainwater. 2,589,572, Mar. 18.
Meter stop. W. E. Gould. 2,589,244, Mar. 18.
Methanol complex of dehydro-l-ascorbic acid. B. Pecherer. 2,590,067, Mar. 18.
Method and apparatus for making electrical measurements. B. M. Wojciechowski. 2,589,758, Mar. 18.
Method and apparatus for refrigeration. C. Chilowsky. 2,589,775, Mar. 18.
Microwave frequency modulated transmitter. R. V. Pound. 2,589,861, Mar. 18.
Mill: *See*—
Grinding mill.
Mine shuttle car. C. F. Ball. 2,589,217, Mar. 18.
Miniature bowling game and ash tray. J. D. Nagel and W. Lang. 2,589,725, Mar. 18.
Mirror signaling device. C. H. Learned. 2,589,618, Mar. 18.
Mixing machine. A. F. Kipper. 2,589,615, Mar. 18.
Mixing system. H. N. Jenks. 2,589,261, Mar. 18.
Modified short oil alkyd resins. L. Auer. 2,589,657, Mar. 18.
Mold for producing sliding clasp fasteners. J. C. Siegrist. 2,589,442, Mar. 18.
Molding compositions from cellulose, formaldehyde, hydrocarbon, and alkali. E. Hene. 2,589,941, Mar. 18.
Monitoring system. J. R. Weiner. 2,589,465, Mar. 18.
Monorail carrier switch safety mechanism. J. A. Shelby. 2,590,070, Mar. 18.
Motion picture film, Making. N. G. Horsky. 2,589,696, Mar. 18.
Motor: *See*—
Electric motor. Small electric motor.
Motor control system. S. Noodleman. 2,589,276–8, Mar. 18.
Motor switch assembly. G. D. Willits. 2,590,058, Mar. 18.

Mounting: *See*—
Aircraft engine mounting. Gravity actuated door mounting.
Bar mounting.
Brake head mounting.
Mounting for glass panels. O. E. Stelzer. 2,589,517, Mar. 18.
Movable vane pump. S. O. Stageberg. 2,589,449, Mar. 18.
Mower. R. E. Van Wagner. 2,589,751, Mar. 18.
Mower structure. C. W. Mott. 2,590,065, Mar. 18.
Multiple-plunger fuel injection pump unit. R. E. Peterson. 2,589,858, Mar. 18.
Multiple stage anchoring device. R. Ecuer. 2,589,484, Mar. 18.
Multiple station game board. J. W. McFerran. 2,589,839, Mar. 18.
Multipurpose bath apparatus. M. M. Ocaña. 2,589,592, Mar. 18.
Nail stop. E. C. Eldred, Jr. 2,589,352, Mar. 18.
Nasal tube holder. H. P. Gordon. 2,590,006, Mar. 18.
New basic esters of 1-aryl-cyclopentane-1-monothio-carboxylic acids, Manufacture of. F. Häfliger, H. Martin, and R. Denss. 2,589,937, Mar. 18.
Nitrate explosive containing aluminum. L. S. Byers. 2,589,532, Mar. 18.
Noise suppressor for audio circuits. J. M. Miller, Jr. 2,589,723, Mar. 18.
Nonbuoyant paravane. K. H. Wilcoxon. 2,589,312, Mar. 18.
Nonfoaming oil composition containing polymeric silicone. D. W. Young and S. G. Gallo. 2,589,317, Mar. 18.
Nozzle. J. O. Hruby, Jr. 2,589,942, Mar. 18.
Nozzle, Distributing. S. H. Woodruff. 2,589,589, Mar. 18.
Nozzle for dry powder extinguishers. F. B. Allen. 2,589,213, Mar. 18.
Nozzle, Fuel. P. A. Lebeda. 2,589,559, Mar. 18.
Oar, Boat. S. N. Jackson. 2,589,698, Mar. 18.
Oil filter. R. C. Beckett. 2,589,920, Mar. 18.
1-amino-2-anthraquinone carbo-3′,4′-xylide. N. W. Solonen and D. I. Randall. 2,589,974, Mar. 18.
1-amino 4-bicyclohexylamino anthraquinone 2-sulfonic acids. S. von Allmen and H. Eggenberger. 2,589,980, Mar. 18.
One-piece resilient socket. D. I. Reiter. 2,589,962, Mar. 18.
Operating film evaporators. C. F. Rosenblad. 2,589,733, Mar. 18.
Operating valve. V. L. Frantz. 2,589,794, Mar. 18.
Optical system for use in light signals, indicators, and the like. L. H. Peter, E. A. Sheppard, and S. A. Stevens. 2,589,569, Mar. 18.
Organic phosphorus ester-P_2S_5 reaction products and oil compositions containing the same. E. A. Oberright. 2,589,326, Mar. 18.
Organosilicon acids. L. H. Sommer. 2,589,445, Mar. 18.
Oscillation generator system. R. P. Corporon. 2,589,477, Mar. 18.
Oscillator. H. H. Grimm. 2,589,246, Mar. 18.
Oscillator, Balanced series loop sine wave. P. Jarmotz. 2,589,816, Mar. 18.
Oscillator having open-ended coaxial resonator, Electrical. W. G. Shepherd. 2,589,739, Mar. 18.
Oscillator, Tunable magnetron. A. L. Vitter, Jr. 2,589,903, Mar. 18.
Package and packaging. G. C. Cunningham and R. Weldon. 2,589,604, Mar. 18.
Package with cover or support therefor. L. L. Salfisberg. 2,589,735, Mar. 18.
Packing articles for shipment. H. F. Zimmerman. 2,590,071, Mar. 18.
Paint applicator with a pair of rollers exterior of their paint supply receptacle. J. O. Lee. 2,589,407, Mar. 18.
Paint loosening and scraping device. V. E. Brooks. 2,589,531, Mar. 18.
Panel construction. W. L. Shepheard. 2,589,633, Mar. 18.
Panel light mounting to absorb mechanical shocks. J. R. Gaston. 2,590,003, Mar. 18.
Paper clip. D. W. Stegeman. 2,589,889, Mar. 18.
Paper machinery. S. A. Staege. 2,589,638–9, Mar. 18.
Pencil, Four-color magazine. F. Wagner. 2,589,905, Mar. 18.
Phenyl-piperidino-coumarans. H. Henecka. 2,589,378, Mar. 18.
Photochemical chlorination process. L. J. Governale, J. H. Huguet, and C. M. Neher. 2,589,689, Mar. 18.
Pickup device for color television. C. E. Huffman. 2,589,386, Mar. 18.
Pigtail electric connector. M. A. Graham and C. H. Thompson. 2,589,368, Mar. 18.
Pillow, Compartmented. R. M. Sourbeck. 2,589,303, Mar. 18.
Pin retaining means. R. B. Cottrell. 2,589,781, Mar. 18.
Pinking scissors, Making. E. M. Lieberman. 2,590,024, Mar. 18.
Pipe: *See*—
Tobacco pipe.
Pipe and gasket joint. W. A. Seaher. 2,589,876, Mar. 18.
Pipe bending machine, including skid lifting device. S. L. Ballard. 2,589,651, Mar. 18.
Pipe shaping apparatus. C. R. Croson. 2,589,541, Mar. 18.
Piston and independently operated distributing valve for reciprocating piston engines. A. Ivanoff and G. P. E. Howard. 2,590,014, Mar. 18.
Piston ring. M. M. Moratta. 2,589,274, Mar. 18.
Plasterboard, scuff resistant paper liner, and process. H. N. Huntzicker and J. K. Wise. 2,590,013, Mar. 18.
Plastic-sealing apparatus. F. V. Collins. 2,589,777, Mar. 18.
Plastic thread. J. F. Stalter. 2,589,514, Mar. 18.
Plate clamping mechanism. C. A. Harless and T. H. Johnson. 2,590,010, Mar. 18.
Pleating machine. J. J. Frank and J. C. Macy. 2,589,792, Mar. 18.
Plug: *See*—
Spark plug.
Pneumatic thread control system for looms. V. F. Sepavich. 2,589,875, Mar. 18.
Positive cutout switch. L. E. Kanard. 2,589,395, Mar. 18.
Positive lockpin. W. A. Downey. 2,589,482, Mar. 18.
Potassium-containing nitrophosphates, Production of. S. Ruosch. 2,589,734, Mar. 18.
Potato feeding machine. C. and W. Barnett. 2,589,762, Mar. 18.
Poultry nest appliance. N. Cordis. 2,589,228, Mar. 18.
Power take-off, Intermittently used. R. H. Sheppard. 2,589,880, Mar. 18.
Press: *See*—
Fruit press.
Pressing or ironing machine. G. H. Haverkate. 2,589,939, Mar. 18.
Printing of woolen textiles with a nonaqueous paste comprising a dyestuff containing an acid group, a water-insoluble vinyl polymer, and an acid-liberating agent. E. Meier. 2,589,951, Mar. 18.
Process and device for the manufacture of corrugated sheets of asbestos cement. C. Herzog. 2,589,379, Mar. 18.
Projector with rotatable picture drum and magnetic braking means. D. W. Brightwell. 2,589,530, Mar. 18.
Propelling and steering mechanism for boats, Combined. D. F. Sherman. 2,589,300, Mar. 18.
Propelling heavier-than-air devices powered by fuel-burning prime movers. J. A. Hannum. 2,590,009, Mar. 18.
Protective device for remote-control systems. J. F. Griffin. 2,589,371, Mar. 18.
Protector for the lips and teeth. O. S. Miller. 2,589,504, Mar. 18.
Pull actuated trap hook. G. M. Buchner. 2,589,533, Mar. 18.
Pulse amplitude modulation communication system. A. C. Kowalski. 2,589,617, Mar. 18.
Pulse discriminator circuit. C. L. Longmire and I. H. Sudman. 2,589,833, Mar. 18.
Pulse length discriminator. L. H. Orpin. 2,589,831, Mar. 18.
Pump: *See*—
Low capacity gear pump. Movable vane pump.
Pump injector for oil engines. A. J. Morris. 2,589,505, Mar. 18.
Punching machine. H. Oetiker. 2,589,849, Mar. 18.
Purification of crude ethylene dichloride. N. A. Agapetus, R. R. Reese, and L. P. Scoville. 2,589,212, Mar. 18.
Purification of vinyl aromatic compounds. B. B. Schaeffer. 2,589,871, Mar. 18.
Pusher machine and coke guide interlock. J. W. Drake. 2,589,231, Mar. 18.
Quantitative feeder for ice plants. J. E. Reed. 2,589,431, Mar. 18.
Quick detachable anchoring means for chairs and the like. H. A. Bowman. 2,589,922, Mar. 18.
Quick-opening manhole. H. H. Gary. 2,589,795, Mar. 18.
Rack: *See*—
Garment rack.
Radar navigating apparatus for aircraft. F. C. Thompson. 2,589,584, Mar. 18.
Radiant energy transmission and reflection analyzer with adjustable filter. E. J. Martin and R. N. Frawley. 2,589,414, Mar. 18.
Radio direction finding apparatus. R. C. Sabins. 2,589,578, Mar. 18
Radio direction finding system. C. W. Earp. 2,589,236, Mar. 18.
Radio-frequency circuit. F. C. Isely. 2,589,259, Mar. 18.
Radio-frequency receiver with band-spread tuning. H. A. Broos. 2,589,331, Mar. 18.
Radiotelephone receiving system. B. G. Bjornson. 2,589,662, Mar. 18.
Rail, Ironing board. C. F. Obert. 2,590,030, Mar. 18.
Railway car. W. B. and A. G. Dean. 2,589,997, Mar. 18.
Rattrap. R. O. Ferguson. 2,589,360, Mar. 18.
Razor and protective casing, Safety. E. M. Biggs. 2,589,327, Mar. 18.
Reaction of carbon monoxide and hydrazine and product thereof. H. J. Sampson, Jr. 2,589,290, Mar. 18.
Reaction of organosiliconhalides with organodithiols and diselenyl substituted organo compounds, and products thereof. F. P. Richter and B. A. Orkin. 2,590,039, Mar. 18.
Recovery of olefin hydrocarbons. G. C. Ray. 2,589,960, Mar. 18.
Recovery of SO_3. H. A. Edge. 2,589,684, Mar. 18.
Recovery of vegetable protein. S. Rowe. 2,589,867, Mar. 18.
Rectilinear fluid shock absorber. B. E. O'Connor and R. E. Henrich. 2,589,282, Mar. 18.

Reed holder. M. S. Korshak. 2,589,821, Mar. 18.
Reel: *See*—
Fishing reel.
Reeling device. V. I. Dudley. 2,589,235, Mar. 18.
Reflex superregenerative receiver. J. C. Tellier. 2,589,455, Mar. 18.
Refrigerant separator and dehydrator. J. K. Touborg. 2,589,457, Mar. 18.
Refrigerator, Two temperature. G. K. Iwashita. 2,589,549–51, Mar. 18.
Regulator: *See*—
Constant current regulator.
Relay device for starting and protecting single-phase induction motors, particularly for compression refrigerator motors. S. Szániszlo. 2,589,893, Mar. 18.
Relay switch. M. A. Rudd. 2,589,868, Mar. 18.
Releasable rope socket with weight indicator. J. A. Bond and J. L. Wiley. 2,589,599, Mar. 18.
Release mechanism for toggle actuated plier type wrenches. C. H. Redmon. 2,589,511, Mar. 18.
Removal of mercaptans from hydrocarbons. D. C. Bond. 2,589,663, Mar. 18.
Removing color bodies imparted to hydrocarbons in sweetening the same. J. P. Stanton. 2,589,450, Mar. 18.
Removing oil from vegetable material. A. E. Eriksen. 2,589,238, Mar. 18.
Resilient sealing member for pistons, plungers, or the like. N. F. Brown. 2,589,332, Mar. 18.
Resin, abrasive article incorporating same, and making same. H. V. Allison. 2,589,652, Mar. 18.
Reversible heat pump cycle with means for adjusting the effective charge. N. E. Hopkins. 2,589,384, Mar. 18.
Revivifying spent activated carbon by a process employing a double sodium bicarbonate wash. H. L. Van Nouhuys. 2,589,750, Mar. 18.
Ring: *See*—
Piston ring.
Road-finishing machine. H. R. Horning. 2,589,257, Mar. 18.
Road-paving machine. H. R. Horning. 2,589,256, Mar. 18.
Roaster. C. J. Paul. 2,589,626, Mar. 18.
Roaster, Corn. C. J. Paul. 2,589,625, Mar. 18.
Roentgenographic apparatus. T. Vladeff. 2,589,904, Mar. 18.
Roller bearing. A. H. Lloyd. 2,589,560, Mar. 18.
Roller chart. M. E. Foster. 2,589,608–9, Mar. 18.
Room arrangement with movable bed for sleeping cars or the like. K. L. Schiff. 2,590,045, Mar. 18.
Rotary card filing apparatus. L. W. Belew. 2,589,598, Mar. 18.
Rotary cutter head for sewer rods. A. P. Kjerulff. 2,589,556, Mar. 18.
Rotary reaction nozzle fuel burner. W. D. Bailey, Jr. 2,590,063, Mar. 18.
S-hydroxybenzyl O,O-dithiophosphoric acid triesters, Production of. E. W. Cook, P. H. Moss and E. O. Hook. 2,589,675, Mar. 18.
Safety attachment for cutter bars. A. Kesselring. 2,589,553, Mar. 18.
Safety control device for elevator. J. Borovec. 2,589,329, Mar. 18.
Safety shock absorber for front fork structure of bicycles. L. A. Smith. 2,590,050, Mar. 18.
Safety window guard fastener. L. E. Shapiro. 2,589,878, Mar. 18.
Salt box for animals. C. Ossmann. 2,589,427, Mar. 18.
Sash balance. L. A. Macklanburg. 2,589,413, Mar. 18.
Sash construction. V. W. Braybrook. 2,589,924, Mar. 18.
Saw and cradle suspension therefor, Tilting-arbor. A. Pollak. 2,590,035, Mar. 18.
Saw, Endless chain-type power driven. J. Wolf. 2,589,914, Mar. 18.
Saw guide for portable power-driven hand-operated circular saws. J. B. Killian. 2,589,554, Mar. 18.
Saw with swingable tension roller, Rotary. J. J. Miller. 2,589,624, Mar. 18.
Sawing machine. H. E. Rose. 2,589,576, Mar. 18.
Schmidt type optical projection system for indicating devices. J. T. Soller and M. A. Starr. 2,589,883, Mar. 18.
Screw cap remover. A. McD. Hess. 2,589,693, Mar. 18.
Seat cover stretching and securing device. R. M. Van Doren. 2,589,901, Mar. 18.
Seat for dentists, Suspended work. R. J. Haley. 2,589,803, Mar. 18.
Secondary feed and moistening device for hectograph duplicating machines. R. M. Ford. 2,589,790, Mar. 18.
Sectional demountable steam generator. C. E. Bishop. 2,589,218, Mar. 18.
Sectionalized bottle carrier. R. B. Barker. 2,589,526, Mar. 18.
Sedimentation unit. C. H. Scott. 2,589,298, Mar. 18.
Selective signaling system. C. N. Hickman. 2,589,806, Mar. 18.
Selector mechanism. G. X. Lens. 2,589,267, Mar. 18.
Self-posing device with adjustable periscopic view finder. J. T. Foufounis. 2,589,363, Mar. 18.
Self-supporting automobile structure and wheel supporting beam secured by vertical bolts. A. R. Lindsay, 2,590,025, Mar. 18.
Self-tightening weatherstrip. C. H. Fry. 2,589,364, Mar. 18.
Self-venting valve. J. B. McCabe. 2,589,622, Mar. 18.
Semiconductor signal translating device. W. E. Kirkpatrick and R. W. Sears. 2,589,704, Mar. 18.
Sensing mechanism. K. J. Braun and F. Miller, Jr. 2,589,987, Mar. 18.
Separating gases by diffusion. F. A. Schwertz. 2,589,297, Mar. 18.
Separating normal aliphatic hydrocarbons from organic mixtures thereof. H. V. Hess, G. B. Arnold, and J. K. Truitt. 2,589,380, Mar. 18.
Separator: *See*—
Smoke separator.
Sequential braking system. E. H. Piron. 2,590,034, Mar. 18.
Shaft seal. L. D. Potts. 2,590,036, Mar. 18.
Sheet distributing machine. R. J. Crissy. 2,589,676, Mar. 18.
Shock absorber link. A. W. Konchan. 2,589,820, Mar. 18.
Shoe polishing machine. W. A. Edington. 2,589,785, Mar. 18.
Short round device. R. C. Heenan. 2,589,250, Mar. 18.
Shoulder protector and garment strap holder. J. M. Ward and C. A. Sutphin. 2,589,755, Mar. 18.
Shower bath, foot bath, and bidet apparatus, Combined. M. M. Ocaña. 2,589,281, Mar. 18.
Shrimp distributing machine. W. O. Smith. 2,589,580, Mar. 18.
Side draft compensating and steering wheel. E. Sokolik. 2,589,444, Mar. 18.
Side slipping weft detector for looms. L. A. Carron. 2,589,990, Mar. 18.
Sifting and pouring spout, Combined. M. H. Klausmann. 2,589,819, Mar. 18.
Signal: *See*—
Fishing signal.
Signal generator. A. V. Haeff and T. E. Hanley. 2,589,248, Mar. 18.
Silalactones and disiloxane dibasic acids, Production of. L. H. Sommer. 2,589,447, Mar. 18.
Silicon sulfide, Production of. C. Alvarez-Tostado and W. B. Haroldw. 2,589,653, Mar. 18.
Siloxane-alkyd copolymers, Modified. J. T. Goodwin, Jr., and M. J. Hunter. 2,589,243, Mar. 18.
Simulated window. F. J. Sterling. 2,589,744, Mar. 18.
Single manipulative pressure adjuster and auxiliary release for wringers. N. L. Etten. 2,589,353, Mar. 18.
Single side band modulator. R. A. McConnell. 2,589,838, Mar. 18.
Skewer. D. N. Harvey, Jr. 2,589,545, Mar. 18.
Ski attachment for wheeled vehicles. "E." L. R. Clark. 2,589,602, Mar. 18.
Skip stitch machine. B. L. Chambers. 2,589,340, Mar. 18.
Sky line logging carriage. J. L. Yelton. 2,589,315, Mar. 18.
Sled, Ski. J. Basso. 2,589,764, Mar. 18.
Sliding door. W. J. Henry, Jr. 2,589,493, Mar. 18.
Slotted oil control and like rings, Manufacture of. A. J. Woolcott. 2,589,590, Mar. 18.
Small electric motor. E. L. Schellens. 2,589,293, Mar. 18.
Smoke separator. M. Pantelejeff. 2,589,956, Mar. 18.
Socket for elongated tubular lamps. H. E. Darney. 2,589,677, Mar. 18.
Soldering iron. F. A. Petraglia. 2,589,509, Mar. 18.
Solution of nutritive salts and making the same. J. Valmari. 2,589,900, Mar. 18.
Solvents for gasoline inhibitors. B. R. Strickland. 2,589,979, Mar. 18.
Sounding device, Portable. R. M. Albrecht. 2,589,319, Mar. 18.
Spark plug. A. Candelise. 2,589,338, Mar. 18.
Spark plug installing and removing tool. L. J. Guisti. 2,589,935, Mar. 18.
Speed responsive plugging for electric motors. S. Noodleman. 2,589,279, Mar. 18.
Springboard, Gymnasium. B. C. Sidlinger. 2,590,049, Mar. 18.
Spring construction for cradles. A. A. May. 2,589,562, Mar. 18.
Springs for rail trucks. E. H. Piron. 2,590,033, Mar. 18.
Spud valve. J. D. Langdon. 2,589,265, Mar. 18.
Stabilized fatty acid nitriles, Preparing. J. Drew and J. C. Funderburk. 2,589,232, Mar. 18.
Stabilized rosin nitriles, Preparing. J. Drew and J. C. Funderburk. 2,590,072, Mar. 18.
Stabilized tall oil nitriles, Preparing. J. Drew and J. C. Funderburk. 2,589,233, Mar. 18.
Stabilizing method and system utilizing nuclear precession. W. D. Hershberger. 2,589,494, Mar. 18.
Stacking apparatus. C. M. Martin. 2,589,718, Mar. 18.
Stamping machine. A. Bauer. 2,589,659, Mar. 18.
Stamping machine with perfecting feature. S. E. Anderson. 2,589,761, Mar. 18.
Staple setting apparatus and method. C. B. Goodstein. 2,589,491, Mar. 18.
Staple strip cutting mechanism. L. Demerath. 2,589,347, Mar. 18.
Starting and operating device and circuits for electric discharge devices. P. Waguet. 2,589,754, Mar. 18.
Static truck wheel balancer. C. W. Tinkham. 2,589,456, Mar. 18.

Stay bar construction. R. S. Brownie. 2,589,768, Mar. 18.
Steel products and articles, Producing. C. E. Sims and M. N. Landis. 2,589,881, Mar. 18.
Steering mechanism for the front wheels of baby carriages. C. F. Dennesen. 2,589,679, Mar. 18.
Steering system, Automatic. A. M. MacCallum. 2,589,834, Mar. 18.
Stereoplotting method and apparatus. G. Kuipers. 2,589,824, Mar. 18.
Stimulating the growth of mammary glands and lobule-alveolar system of mammals. C. W. Turner. 2,589,898, Mar. 18.
Stirrer. F. Lamoreaux. 2,589,558, Mar. 18.
Stocking and making same, Circular-knit multifeed. I. W. Grothey and R. H. Lawson. 2,590,008, Mar. 18.
Stopcock retaining device. G. Borneman. 2,589,985, Mar. 18.
Store front pane fastener. J. J. Bosshard. 2,589,986, Mar. 18.
Storing gases or liquids. R. L. Pattinson. 2,590,066, Mar. 18.
Studying earth formations employing acetylene as a tracer gas. D. C. Bond and M. Savoy. 2,589,219, Mar. 18.
Suction line liquid return trap. H. A. Phillips. 2,589,859, Mar. 18.
Sunshade. W. J. van Gelder and H. P. Stevens. 2,589,647, Mar. 18.
Support: *See*—
Yarn package support.
Supporting means for articles such as typewriters and sewing machines. C. C. James. 2,589,393, Mar. 18.
Suppository injector. C. H. Hunter. 2,589,388, Mar. 18.
Surfaced core material, Production of. V. H. Turkington and L. Shechter. 2,589,459, Mar. 18.
Suspending arrangement for curtains. K. Tomášik. 2,589,585, Mar. 18.
Suspension device in sliding doors and the like. A. M. de Jong. 2,589,928, Mar. 18.
Switch: *See*—
Positive cutout switch.
Relay switch.
Water trip switch.
Switch blade, Longitudinally shiftable. E. A. Miller. 2,589,563, Mar. 18.
System for locating, indicating, and/or following objects in space. H. F. Rost, K. H. Thunell, S. D. Vigren and P. H. E. Claesson. 2,589,965, Mar. 18.
System for paralleling electric alternafors. E. E. Lewis and R. E. Thorn. 2,590,023, Mar. 18.
Tailgate control for dump trucks. J. L. Schetky. 2,589,872, Mar. 18.
Telephone signaling system. W. D. Goodale, Jr. and W. H. Martin. 2,589,800, Mar. 18.
Telephone switch utilizing a multielectrode gaseous discharge tube. E. W. Hullegård. 2,589,697, Mar. 18.
Telescopic ash receiver. R. R. Rundell. 2,590,043, Mar. 18.
Temperature change responsive means for controlling electric circuits. W. H. Ruffle. 2,589,869, Mar. 18.
Tert-octyl di(cyanomethyl)amine. W. E. Craig and M. J. Culver. 2,589,208, Mar. 18.
Therapeutic compositions. D. A. McGinty. 2,589,210, Mar. 18.
Thermometer, Resistance. O. W. Roost. 2,590,041, Mar. 18.
Thimble, Needle pulling. V. D. Lake. 2,589,499, Mar. 18.
3-methyl-citrals, Preparation of. Y.-R. Naves. 2,589,275, Mar. 18.
3-substituted 1,4-naphthoquinones. G. Fawaz. 2,589,686, Mar. 18.
Thresher attachment. H. Ahlmeyer. 2,589,318, Mar. 18.
Thresher with suction and blast fans mounted in housing. R. H. Sharpe. 2,589,440, Mar. 18.
Tile cutter. L. Lenarduzzi. 2,589,501, Mar. 18.
Time control device. J. A. Darwin. 2,589,995, Mar. 18.
Timer, Interval. P. O. Mellard. 2,590,027, Mar. 18.
Tire spreader. R. E. Campbell and W. P. Thompson. 2,589,771, Mar. 18.
Titanium activated calcium magnesium silicate phosphor, Making. A. L. J. Smith. 2,589,513, Mar. 18.
Titanium dioxide, Production of. E. L. Schneider. 2,589,910, Mar. 18.
Titanium dioxide, Production of. J. H. Weikel. 2,589,909, Mar. 18.
Titanium pigments, Manufacture of. J. T. Richmond and R. J. Wigginton. 2,589,964, Mar. 18.
Titanium tetrachoroide, Production of. B. Wilcox. 2,589,466, Mar. 18.
Tobacco pipe. R. O. Ferguson. 2,589,359, Mar. 18.
Toe shield. W. W. Fine. 2,589,791, Mar. 18.
Tool: *See*—
Combined boring and turning tool.
Ear notching tool.
Spark plug installing and removing tool.
Woodworking hand power tool.
Toolbox, Wall mounted. A. E. Grennan. 2,589,370, Mar. 18.
Tool for severing the flanges of channels. T. M. Porter. 2,589,727, Mar. 18.
Tool stand and case, Combination. L. H. Drohman. 2,589,234, Mar. 18.
Torpedo, Wakeless. R. H. Canfield. 2,589,225, Mar. 18.
Torque amplifying system. N. Minorsky. 2,590,029, Mar. 18.
Torque testing and calibrating device. F. Krahulec. 2,589,401, Mar. 18.
Toy building boxes. J. F. Winnemore. 2,589,588, Mar. 18.
Toy element, Constructional. R. E. Mercier. 2,589,952, Mar. 18.
Toy hoisting truck. O. R. Brown. 2,589,333, Mar. 18.
Toy of the fluent material operative type. P. A. Williams. 2,589,757, Mar. 18.
Toy ship, Remote controlled. F. R. Less. 2,589,268, Mar. 18.
Trailer, Two-deck. R. E. Ten Eyck. 2,589,894, Mar. 18.
Transducer construction and method. F. N. D. Kurie. 2,589,403, Mar. 18.
Transfer ink, Bleachable. H. J. Steiner. 2,589,306, Mar. 18.
Transmission operating mechanism. T. H. Thomas, E. R. Price and R. H. Long. 2,589,643, Mar. 18.
Transparency holder attachment for photographic enlargers. O. Denny, Sr. 2,589,680, Mar. 18.
Transpondor system. C. J. Hirsch. 2,589,808, Mar. 18.
Transportation assembly. C. E. Mittell. 2,589,842, Mar. 18.
Trap: *See*—
Animal trap.
Treating fish. J. Ryan. 2,589,288, Mar. 18.
Treating fish and resulting product. J. Ryan and W. C. Wilson. 2,589,287, Mar. 18.
Treating lithographic plates. W. H. Wood. 2,589,313, Mar. 18.
Treating tubular textile fabric. S. Cohn, J. G. Walter and E. Cohn. 2,589,345, Mar. 18.
Treating tubular textile fabrics, Method of and apparatus for. S. Cohn, J. G. Walter and E. Cohn. 2,589,344, Mar. 18.
Treatment of aerogels to render them waterproof. S. S. Kistler. 2,589,705, Mar. 18.
Trigger conversion device for rifles. M. H. Colley. 2,589,227, Mar. 18.
Trolling sinker. C. A. Lysikowski. 2,589,715, Mar. 18.
Truck, Hand-propelled hydraulic lifting. J. H. Klassen. 2,590,016, Mar. 18.
Tunable magnetron. S. Sonkin. 2,589,885, Mar. 18.
Turbine-compressor unit. E. Fallon. 2,589,239, Mar. 18.
2-aminomethyl-tetrahydroacenapthones-1 and their preparation. H. J. Glenn and B. W. Horrom. 2,589,934, Mar. 18.
2-trihalomethyl-1,3-dioxolane-4-carboxybenzoate and carboxyalkanoate. E. F. Schroeder. 2,589,296, Mar. 18.
Type member. C. G. Dudis. 2,589,682, Mar. 18.
Ultrahigh-frequency mixing circuits. C. G. Montgomery. 2,589,843, Mar. 18.
Ultrasonic generator. E. H. Harris. 2,589,375, Mar. 18.
Vacuum tube socket assembly, Nonmicrophonic. B. Fox. 2,590,001, Mar. 18.
Valve: *See*—
Electromagnetic reset valve.
Electromagnetic valve.
Emergency valve.
Fuse type hydraulic valve.
Gate valve.
Operating valve.
Self-venting valve.
Spud valve.
Vertical - horizontal ball check valve.
Valve construction. F. W. Marsh. 2,589,716, Mar. 18.
Valve control means for water softeners, Automatic. H. B. Wolcott, Jr. 2,589,650, Mar. 18.
Valve facing apparatus. A. Lervik. 2,589,828, Mar. 18.
Valve for air brakes, Feed. E. C. Vroman. 2,589,586, Mar. 18.
Valve rotating device. T. H. Mitzelfeld and A. W. Zmuda. 2,589,418, Mar. 18.
Valve spring compressor and tension tester. H. V. Kerr. 2,589,552, Mar. 18.
Valve structure for faucets. S. Samaras. 2,589,630, Mar. 18.
Vapor delivery pad for distributing moist heat. Z. Marx. 2,590,026, Mar. 18.
Vaporizer carrier. M. Katzman. 2,589,817, Mar. 18.
Variable compression ratio internal-combustion engine. G. Petit. 2,589,958, Mar. 18.
Variable condenser. C. N. Ehrlich. 2,589,351, Mar. 18.
Variable multiple head. M. H. Emrick. 2,589,485, Mar. 18.
Variable selective automatic choke for shotguns. W. H. Sedberry. 2,589,738, Mar. 18.
Variable V belt pulley drive. G. O. Turnbull. 2,589,897, Mar. 18.
Vehicle body, Collapsible. H. W. Miller. 2,589,416, Mar. 18.
Vehicle body, Self-unloading. H. R. Schemm. 2,589,968, Mar. 18.
Vehicle directional signal system. W. T. Leete. 2,589,410, Mar. 18.
Vehicle guiding means. C. H. Rose. 2,590,040, Mar. 18.
Venetian blind mechanism. H. Nelson. 2,589,846, Mar. 18.
Ventilator, Adjustable louver. E. F. Bowers. 2,589,529, Mar. 18.
Vernier ranging circuit. B. Chance and A. H. Fredrick. 2,589,773, Mar. 18.

Vertical-horizontal ball check valve. E. Sokolik. 2,589,581, Mar. 18.
Vertically offset rotary wing axes. F. W. Caldwell. 2,590,064, Mar. 18.
Vibration reducing support for washing machines and the like. P. E. Geldhof. 2,589,796, Mar. 18.
Vinyl chloride-allyl glycidyl ether copolymers. E. K. Ellingboe. 2,589,237, Mar. 18.
Vinylidene cyanide polymers and polymer products. R. F. Schmidt, A. E. Ardis, and H. Gilbert. 2,589,294, Mar. 18.
Visor, Automobile. G. A. Roberts. 2,589,866, Mar. 18.
Voltage indicating system. J. T. McNaney. 2,589,721, Mar. 18.
Voltage pulse generating circuit. L. Bess. 2,589,767, Mar. 18.
Vulcanizing unit. V. H. Hurt. 2,589,390, Mar. 18.
Waist grip belt strap. A. Grisanti. 2,589,802, Mar. 18.
Wallet, Foldable. F. G. and S. H. Dobbs. 2,589,481, Mar. 18.
Wallpaper display. H. E. Stewart. 2,589,641, Mar. 18.
Warp tension compensator. K. Kulczycki and W. D. Lowe. 2,589,498, Mar. 18.
Washing machine, Pump operated recirculation. A. Guzzetti and M. Almasso. 2,589,247, Mar. 18.
Watchcase, Watertight. E. Vaurillon. 2,589,902, Mar. 18.
Water gun. I. Richardson. 2,589,963, Mar. 18.
Water gun. J. Stelzer. 2,589,977, Mar. 18.
Water trip switch. A. V. Hughes and L. B. Rademacher. 2,589,547, Mar. 18.
Wave guide feed for cylindrical paraboloid. H. J. Riblet. 2,589,433, Mar. 18.
Weaving shuttle construction. H. Slowak. 2,589,972, Mar. 18.
Web carrier and making. O. W. Berglund. 2,589,765, Mar. 18.
Weightless sliding and swinging sash construction. C. Goering. 2,589,799, Mar. 18.
Wellhead. J. E. Eckel and F. Richard. 2,589,483, Mar. 18.
Well packer with expandible seals. E. B. Armstrong. 2,589,656, Mar. 18.
Wheel: *See*—
Grinding wheel.
Wheelbarrow, Dumping. A. R. Hines. 2,589,694, Mar. 18.
Wheeled carrier for outboard motors. C. L. Harmsen. 2,589,376, Mar. 18.
Winding electrical resistance units, Method and machine for. P. J. McCullough. 2,589,503, Mar. 18.
Window. A. B. Edwards, Jr. 2,589,685, Mar. 18.
Window sash, Metallic. P. R. Rates. 2,589,729, Mar. 18.
Windshield for motorcycles and similar vehicles. A. T. Comiskey, Sr. 2,589,993, Mar. 18.
Windshield wiper. W. P. Ozarowski. 2,589,854, Mar. 18.
Windshield wiper blade. S. R. Carson. 2,589,339, Mar. 18.
Wire annealing machine. J. V. O'Grady. 2,589,283, Mar. 18.
Wire insulator holder. D. J. Neufeld. 2,589,726, Mar. 18.
Wood planer blade setting gauge. N. J. Rivard. 2,589,865, Mar. 18.
Woodworking hand power tool. A. L. Toussaint. 2,589,458, Mar. 18.
Work progress board. M. D. Hoskins. 2,589,812, Mar. 18.
Wrap stripe stop motion. W. C. Tucker. 2,589,646, Mar. 18.
Wrench having slidable side jaw actuated by pivoted handle. J. Minton. 2,589,565, Mar. 18.
Wringer. N. L. Etten. 2,589,354, Mar. 18.
X-ray analysis of materials. A. Dvořák. 2,589,931, Mar. 18.
Yarn package support. T. M. Hurst. 2,589,389, Mar. 18.
Zinc base casting alloys. S. Kornblum. 2,589,399, Mar. 18.
Zinc base casting alloys and alloying. S. Kornblum. 2,589,398, Mar. 18.

CLASSIFICATION OF PATENTS

ISSUED MARCH 18, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Condition of Applications Under Examination at Close of Business February 29, 1952

Total number of patent applications awaiting action, 102,722. Date of oldest new application, May 3, 1951; date of oldest amended application, May 1, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	5-5-51	5-3-51	2165
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	8-1-51	8-1-51	1138
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Casting or Plastic Composition (part).	7-25-51	7-23-51	1506
4. FALLER, E. A. (Acting Chief), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	5-11-51	5-8-51	1934
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	7-16-51	7-11-51	1261
6. SURLE, H., Carbon Chemistry (part)	6-6-51	6-11-51	1852
7. GONSALVES, J. E., Optics; Photography (part)	8-1-51	8-1-51	1246
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	5-17-51	5-17-51	1748
9. BRANSON, J. H. (Acting), Pumps and Fans; Fluid Motors	5-17-51	5-16-51	1527
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Music; Modulators; Pieso-electric Crystals.	5-8-51	5-9-51	1026
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	6-5-51	6-5-51	918
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	5-28-51	5-28-51	1141
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	5-15-51	5-8-51	1321
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	5-10-51	5-11-51	1675
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	8-3-51	7-17-51	1111
16. LOVEWELL, N. N., Television, Telephony	5-4-51	5-4-51	1222
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	5-2-51	5-2-51	1972
18. KURZ, J. A., Power Plants; Speed Responsive Devices	5-21-51	5-16-51	1417
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	5-21-51	5-28-51	1108
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	6-7-51	5-31-51	1433
21. MADER, R. C., Textiles	5-12-51	5-12-51	1374
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	5-22-51	5-22-51	1151
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	5-4-51	5-1-51	864
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	7-5-51	6-22-51	1475
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	6-14-51	6-14-51	1194
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	5-17-51	5-21-51	1199
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	5-26-51	5-29-51	1617
28. BRAUNER, R. H., Motors, Expansible Chamber Type; Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	5-29-51	5-29-51	1370
29. HABECKER, L. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	5-29-51	5-29-51	1397
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	7-9-51	7-9-51	1519
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	6-20-51	6-15-51	1999
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-1-51	6-15-51	1198
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	5-24-51	5-25-51	2084
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	5-31-51	6-5-51	1263
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	5-6-51	5-4-51	1531
36. McFADYEN, A. D., Measuring and Testing	5-18-51	5-18-51	1342
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	6-21-51	6-19-51	1205
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	6-7-51	6-1-51	1450
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	6-9-51	6-9-51	2503
40. DRUMMOND, E. J., Receptacles (part); Packages	6-2-51	6-4-51	2414
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	5-11-51	5-10-51	1250

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 102,722. Date of oldest new application, May 3, 1951; date of oldest amended application, May 1, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MARANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Signs	6-4-51	6-1-51	1268
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	7-2-51	7-9-51	1214
44. HARVEY, L. P., Beds; Chairs, Seats	6-1-51	5-25-51	1432
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	5-29-51	5-31-51	1399
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	5-17-51	5-31-51	892
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	6-12-51	6-12-51	1393
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	5-11-51	5-8-51	1567
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	5-19-51	5-23-51	1534
50. LEVIN, S., Synthetic Resins	8-8-51	8-6-51	1502
51. YAFFEE, S., Radiant Energy (part e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	6-4-51	6-4-51	807
52. WHITNEY, F. 1., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	5-31-51	5-31-51	2100
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	7-14-51	6-22-51	1050
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	6-4 51	6-4-51	1649
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	6-12-51	6-18-51	1107
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	6-12-51	6-12-51	1803
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	5-29-51	5-23-51	1871
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	5-4-51	5-14-51	1106
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	6-12-51	5-25-51	1134
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	6-12-51	7-6-51	1106
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	5-22-51	5-18-51	1269
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	5-25-51	5-17-51	1415
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	6-8-51	6-8-51	1613
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	7-27-51	7-27-51	1746
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	6-5-51	6-6-51	1478
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	5-16-51	5-17-51	1114
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	6-14-51	6-5-51	1193
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	5-15-51	5-16-51	1724
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	5-22-51	5-22-51	1323
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	5-12-51	5-12-51	2143
DESIGNS: A. BREHM, G. L., Industrial Arts	11-1-51	11-8-51	70
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	11-5-51	11-13-51	75

Total number of trade-mark applications awaiting action (including renewals and republications), 15,187. Date of oldest new application, August 12, 1951; date of oldest amended application, August 13, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	8-12-51	8-13-51	4657
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	9-2-51	9-2-51	3172
Renewals (All Classes)	12-27-51	1-24-52	721
Republications (All Classes)	1-10-52	1-24-52	222
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	9-4-51	9-4-51	3503
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	9-21-51	9-21-51	2822

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

NORTH STAR MANUFACTURING CO.

v.

WELLS LAMONT CORPORATION

No. 5813. Decided December 18, 1951

[193 F.2d 204; 92 USPQ 128]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—"WHITE OX" AND "WHITE MULE."

Since the dominant part of the involved marks, i. e. "Mule" and "Ox" do not look or sound alike, and the marks in their entireties are not confusingly similar, *Held* that their concurrent use would not be likely to cause confusion in trade.

APPEAL from Patent Office. Opposition No. 27,325.

REVERSED.

Harvey B. Jacobson (*John H. Lewis, Jr.*, of counsel) for appellant.

Parry & Miller (*Edmund H. Parry, Jr.*, of counsel) for appellee.

JOHNSON, *J.*:

This is an appeal in a trade-mark opposition proceeding from the decision of the Commissioner of Patents, 84 USPQ 486, affirming the decision of the Examiner of Interferences sustaining appellee's notice of opposition to appellant's application for registration of the notation "White Ox" as a trade-mark for use on work gloves, and holding that appellant was not entitled to register the mark under section 5 of the Trade-Mark Act of February 20, 1905, 33 Stat. 725, 15 U. S. C. 85.[1]

In its application for registration, appellant alleged that it has continuously used its mark on its goods since 1890.

In its notice of opposition, dated February 19, 1948, appellee alleges ownership and registration of a composite trade-mark, for use on work gloves, comprising a pictorial representation in profile of the head of a mule, together with the words "White Mule" and "It's Tough," the words "White Mule" being under the mule head and the words "It's Tough" being under the words "White Mule"; that the words "It's Tough" have been disclaimed; that it has for many years, and is now, engaged in the production and distribution of work gloves; that long before the adoption by appellant of the trade-mark herein opposed and appellant's first use of said trade-mark, appellee adopted its trade-mark for work gloves and continuously since its adoption appellee has used and is now using its trade-mark on work gloves in intrastate and interstate commerce throughout the United States; that it is the present owner of its said trade-mark and Reg. No. 251,327 granted it under its former name Wells-Lamont Manufacturing Co. on January 1, 1929; that its trade-mark has never been abandoned and that said registration is still outstanding and uncancelled; that its gloves have been extensively sold and its trade-mark has long been familiar to the purchasing public as associated with opposer's business and indicating gloves originating with opposer; that the goods of the respective parties are not only of the same descriptive properties but are identical goods and that both are sold through the same outlets and to the same class of customers; that the mark sought to be registered by appellant so closely resembles the trade-mark of opposer as to be reasonably likely to cause the purchasing public to confuse the source of origin of the goods; and, that the grant of registration to appellant of its aforementioned trade-mark is likely to cause great damage and injury to appellee.

In its answer, dated June 11, 1948, appellant admitted the issuance to appellee of United States Trade-Mark Registration No. 251,827, but denied that appellee has been legally injured or that the public is likely to be confused by the concurrent use of the involved marks. Appellant denied all other allegations of appellee's notice of opposition and "leaves the opposer to its proof thereof."

Neither party took testimony but it was stipulated by counsel for the respective parties that appellee has been in the business of manufacturing and selling work gloves from at least as early as 1919 continuously down to the present time; that appellee has continuously sold work gloves under its trade-mark since the later part of 1927 continuously down to the present time; that such sales have been to the purchasing public, through retail stores through which work gloves are commonly sold, in large volume and nationally throughout the United States; that Trade-Mark Reg. 251,327 was

[1] Sec. 6, Trade-Mark Act of 1905, 33 Stat. 726, 15 U. S. C. 86 provides: "* * * Any person who believes he would be damaged by the registration of a mark may oppose the same by filing notice of opposition, stating the grounds therefor, in the Patent Office within thirty days after the publication of the mark sought to be registered, * * *."

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granted to appellee January 21, 1929, under its former name Wells-Lamont Manufacturing Co. and is still outstanding and uncancelled; and, that a copy of appellee's trade-mark will be in evidence, as well as Exhibit 1, being one of appellee's work gloves and Exhibit 2, being one of appellee's cartons in which its work gloves are sold.

Appellant has disclaimed the word "White" apart from its mark as shown.

Both appellant and appellee stated in their briefs before this court that the only issue here is whether or not the trade-marks "White Ox" and "White Mule" are confusingly similar as applied to work gloves. The stipulation of facts by the parties similarly confines the case to this particular issue. Thus it will be seen that the only issue here presented is whether or not the involved trade-marks so resemble one another as to be reasonably likely to cause confusion or mistake, or to deceive customers, when applied to the same goods.

The Examiner held the involved marks to be confusingly similar and in his decision stated:

> These marks, considered in their entireties, are deemed to be quite similar in general significance, in that both suggest domesticated working animals noted for strength and durability; and this similarity in the general impressions conveyed thereby is considerably enhanced by the use as prefixes of the identical color designation "White". In their essentials, it is believed that such notations are closely comparable to the marks "Lion Head" and "Wolf's Head" involved in the case of *Gilmore Refining Co.* v. *Wolverine Empire Refining Co.*, (445 O. G. 775, 69 F.2d 532, CCPA) * * *

The Commissioner agreed with the reasoning of the Examiner and affirmed the Examiner's decision.

In the case of *Gilmore Oil Co., Ltd.*, v. *Wolverine-Empire Refining Co.*, 21 CCPA (Patents) 943, 69 F.2d 532, 21 USPQ 41, 445 O. G. 775, cited by the Examiner, the involved marks were both composite marks. One was comprised of a pictorial representation in full face of the head of a lion with wide-open mouth, together with the words "Lion Head" which appeared to the immediate right of the lion's head. The other mark comprised a pictorial representation in profile of the head of a wolf with wide-open mouth, together with the words "Wolf's Head," the word "Wolf's" being to the left, and the word "Head" to the right of the wolf's head.

It will be noted that both marks involved were composite marks comprising a pictorial representation plus words, and each having a pictorial representation of the head of a wild animal with wide-open mouth. A careful reading of the opinion in that case, in which one judge dissented, leads us to believe that the majority of the court placed great weight on the over-all similarity of the arbitrary and fanciful pictorial representation of the animal head used by each party, and that it regarded this to be the dominant feature of each of these marks, especially when the word "Head" was used with it in the manner discussed above. This is shown by the following statement of the court:

> The fundamental idea, we think, in the adoption and use by appellee of its mark, was to convey to the purchasing public that its oil could, and should, be identified by the *head* of an animal. [Italics the court's.] It chose as its symbol the head of a wolf, and, in connection therewith, used the words "Wolf's Head."

> Substantially the same motive actuated appellant in the adoption of its involved trade-mark, * * * It chose the representation of the head of a lion and the words "Lion Head," in order that its oil might be sold, and become known, as "Lion Head Oil." Some purchasers desiring appellee's oil would, of course, remember the precise name "Wolf's Head." Many, however, *due to the arbitrary and peculiarly fanciful character of the mark*, would likely have in mind only that the oil they desired was known as an animal's head motor oil. [Italics ours.] Under such circumstances, * * * the registration and use by appellant of its mark would be likely to lead to confusion, * * *

The trade-marks in issue here, however, are simply composed of a plurality of words. In view of this, we consider the Gilmore case distinguishable from the case at bar.

We have repeatedly held that prior decisions are of little value in an opposition proceeding because each case must rest upon its own distinctive facts. Likelihood of confusion from similar marks is largely a matter of opinion. *The Crown Overall Manufacturing Company* v. *Desmond's*, 37 CCPA (Patents) 1118, 182 F.2d 645, 86 USPQ 166, 640 O. G. 368; *George Ziegler Company* v. *Tom Huston Peanut Company*, 37 CCPA (Patents) 947, 181 F.2d 237, 85 USPQ 242, 638 O. G. 7. In the case of *Gilmore Oil Co., Ltd.* v. *Wolverine-Empire Refining Co.*, supra, in discussing the inapplicability of prior decisions cited by the appellant, the court said: "* * * in view of the fact that in this case, as in all cases of this character, the issues must be determined in accordance with the peculiar facts and circumstances of record, those decisions are not determinative of the issues here."

The likelihood of confusion in the minds of the purchasing public as to origin of the goods it purchases because of the similarity of marks is the test applied by this court in opposition proceedings. *Nestle's Milk Products, Inc.* v. *Baker Importing Company, Inc.*, 37 CCPA (Patents) 1066, 182 F.2d 193, 86 USPQ 80, 639 O. G. 1331; *Standard Laboratories, Inc.* v. *The Procter and Gamble Co.*, 35 CCPA (Patents) 1146, 167 F.2d 1022, 77 USPQ 617, 613 O. G. 245.

The marks must be considered in their entireties, *Apollo Shirt Co.* v. *The Enro Shirt Co., Inc.*, 35 CCPA (Patents) 849, 165 F.2d 469, 76 USPQ 329, 609 O. G. 11; *Miles Laboratories, Inc.* v. *Foley and Co.*, 32 CCPA (Patents) 714, 144 F.2d 888, 63 USPQ 64, 569 O. G. 359.

The court in considering contested trade-marks in their entireties may take notice of descriptive as well as disclaimed portions despite the rule that the validity of registered marks which are merely descriptive is not to be challenged in opposition proceedings. *West Disinfecting Co.* v. *Lan-O-Sheen Co.*, 35 CCPA (Patents) 706, 163 F.2d 566, 75 USPQ 77, 606 O. G. 373. A descriptive word, having little trade-mark significance, will not be regarded as the dominant part of a mark. *Atlantic Seafood Packers* v. *Florida Fruit Canners, Inc.*, 35 CCPA (Patents) 985, 166 F.2d 586, 77 USPQ 96, 612 O. G. 777.

We consider the words "Mule" and "Ox" to be the dominant part of the involved marks. The words "Mule" and "Ox" are not similar; they do not look alike or sound alike, and, considering the marks in their entireties, we do not consider them to be confusingly similar and do not think their concurrent use would be likely to cause confusion in trade.

The decision appealed from is reversed.

REVERSED.

O'CONNELL, *J.*, dissents.

U. S. Court of Customs and Patent Appeals

HELENA RUBINSTEIN, INC. *v.* RICHARD HUDNUT

No. 5831. Decided December 18, 1951

[193 F.2d 207; 92 USPQ 147]

1. TRADE-MARKS—CONFUSION OF THE PUBLIC—*"HR"* AND "RHR".

The decision of the Commissioner of Patents, holding that appellant's mark "HR" is confusingly similar to appellee's mark "RHR", is affirmed.

APPEAL from Patent Office. Opposition No. 27,126.

AFFIRMED.

Otto Nordon for appellant.

Robert B. Clark (*Arnold B. Christen* of counsel) for appellee.

WORLEY, *J.*:

This is an appeal in a trade-mark opposition proceeding from the decision of the Commissioner of Patents, 86 USPQ 221, sustaining the decision of the Examiner of Interferences adjudging that applicant is not entitled to the registration for which it has made application.

Appellant, Helena Rubinstein, Inc., filed its application for registration of the mark "HR," under the Trade-Mark Act of February 20, 1905, on May 29, 1947, Serial No. 523,264, "For Lipstick Cases and Rouge Boxes." On October 11, 1947, this application was amended to read "for lipstick cases containing lipstick, rouge boxes containing rouge, lipstick refills and rouge refills." The mark was passed for publication and appeared in the OFFICIAL GAZETTE, Vol. 605, No. 2, on December 9, 1947.

Appellee, Richard Hudnut, filed notice of opposition on January 3, 1948, alleging ownership of the trade-mark "RHR" which was registered October 29, 1912, and renewed October 1932, No. 88,880, for use on his entire line of cosmetics which include the identical items listed by appellant; that both his goods and that of appellant are sold through the same channels to the general public; that the goods of both parties are of the same descriptive properties; and that section 5 of the Trade-Mark Act of 1905 specifically bars registration of appellant's mark.

Both parties took testimony and numerous exhibits were offered in evidence.

It is conceded by the parties that appellee's use of his mark is long prior to that of appellant's and that the marks of the parties are used on identical goods, therefore, the only issue before this court is whether appellant's mark "HR" is confusingly similar to appellee's trade-mark "RHR."

Both marks in issue are of a monogrammatic design. Appellant's mark consists of the letters "H" and "R" joined by the adjacent vertical lines of the letters. Appellee's mark consists of the letters "R," "H," and "R," and, as described by the Examiner, "The letters 'R', the first of which is in reverse form, are displayed in script, and are joined to, and form a part of, the letter 'H', which is displayed in block type lettering."

In his brief, counsel for appellant contends "that where letters or figures are intertwined, in monogram form or otherwise, so that the ordinary letters of the alphabet are not directly recognizable, the letters lose their significance and should be treated as a *design*, the same as *hieroglyphics*. [Italics quoted.]

In answer to that contention, the Examiner in his decision stated:

> * * * While the initial letter "R" of the opposer's mark, by reason of its reversed position, at first glance appears to be a fanciful design, the mark as a whole consists of a letter monogram about as obviously as does that of the applicant, and the second letters HR" thereof appear to be substantially as readily identifiable as such as the identical letters of which the applicant's mark is composed. * * *

This court has consistently held, as have the tribunals of the Patent Office, that when letters of the alphabet, or a combination of letters, used as trade-marks, are so nearly alike that their concurrent use upon goods of the same descriptive properties would be likely to cause confusion in the minds of the purchasing public, the opposition must be sustained. It is unnecessary that we cite decisions in support of this statement.

We find no error in the decision of the Commissioner of Patents and it is accordingly affirmed.

AFFIRMED.

GARRETT, *C. J.*, did not participate in the consideration or decision of this case.

U. S. Court of Customs and Patent Appeals

IN RE TAYLOR

No. 5839. Decided December 19, 1951

[193 F.2d 335; 92 USPQ 183]

1. WORDS AND PHRASES—"TUBE."

While there are various kinds of tubes and a cup-shaped structure may contain a tubular or cylindrical portion, the term "tube" may not properly be considered to encompass, within its ordinary meaning, the "cup-shaped part with an integral base" shown in the non-elected figure.

2. PATENTABILITY—PARTICULAR SUBJECT MATTER—INDUCTANCE COILS.

A certain claim to an inductance coil *Held* properly rejected as limited to a non-elected species, there being no allowable generic claim.

APPEAL from Patent Office. Serial No. 618,429.

AFFIRMED.

Marvin J. Reynolds and *Adolph A. Thomas* (*Ralph B. Stewart* of counsel) for appellant.

E. L. Reynolds (*H. S. Miller* of counsel) for Commissioner of Patents.

WORLEY, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming that of the Primary Examiner finally rejecting claim 28 in an application for a patent, Serial No.

618,429, filed September 25, 1945, "For Inductance Coils." Seven claims were allowed.

The rejection was made on the ground that the appealed claim is readable on a non-elected species and that there is no allowable generic claim covering that species. No prior art is relied upon.

The rejected claim reads as follows:

28. An inductance coil having a magnetic core contained within a closed copper shield and held substantially midway thereof, said shield comprising a cup-shaped part with an integral base and a cover secured over the other end of the cup.

Fig. 3 of the application depicts the elected species, and Fig. 12 the non-elected species to which claim 28 is drawn. In the interest of clarity those figures are here reproduced.

FIG. 3

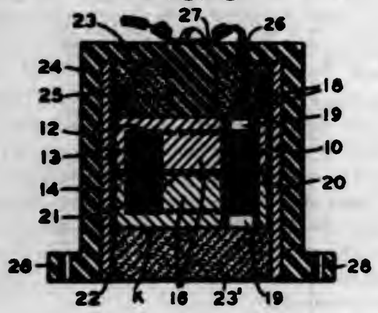
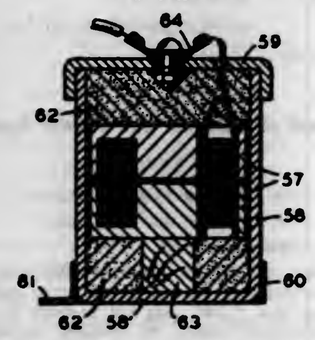


FIG. 12



The substance of the invention may be understood from allowed claim 60, reading as follows:

60. A shielded inductance coil for audio frequency operation comprising a cylindrical magnetic core enclosing a winding, a shield for said coil in the form of a copper tube fitting around said core as closely as commercial tolerances permit to provide a cylindrical coil structure of minimum diameter, the thickness of said tube being of the order of 40 to 90 mils to form a short-circuited conductor of negligible resistance for eddy currents induced by said winding, the coil loss due to the close proximity of the tube to the magnetic core being substantially reduced with increase of shield thickness within the specified limits, and means for binding said tube and core into a unitary structure.

The correctness of the rejection of claim 28 depends upon whether allowed claim 60 is properly readable upon the non-elected species of Fig. 12 to which claim 28 is drawn.

It is to be noted that claim 60 refers to "a shield for said coil in the form of a copper tube." The term "tube" refers to reference number 22 of Fig. 3. That claim is clearly readable on the elected species as represented by Fig. 3.

It should likewise be noted that in claim 28 the following language is used: "* * * said shield comprising a *cup-shaped part* with an integral base and a cover secured over the other end of the cup." [Italics ours.] The quoted portion of the claim refers to reference number 58 of Fig. 12. Claim 28 is, therefore, clearly restricted to the non-elected species depicted in Fig. 12.

Counsel for appellant contend that since claim 60 was allowed, claim 28 should also have been allowed because, in their opinion, the language of claim 60 is broad enough to be readable on Fig. 12 and claim 60 is, therefore, an allowable generic claim. In support of their contention, counsel argue that claims in a pending application must be given the broadest reasonable interpretation and that unexpressed limitations will not be read into them; that terms in a claim are considered to be used in their ordinary meaning; and that the use of different names for similar devices that perform the same function in the same way is immaterial.

The Solicitor for the Patent Office properly agrees with those principles of law but denies their applicability to the facts herein involved.

Counsel for appellant assert that, so far as the facts of this case are concerned, the cup-shaped member 58 is essentially a tube within the generic language of allowed claim 60.

That contention necessarily means that the shield 58 of Fig. 12, described in claim 28 as a "cup-shaped part with an integral base," must be construed to be a "tube" within the ordinary meaning of that term. The sole point for determination here, therefore, is whether such contention is correct.

The Board, in denying a petition for reconsideration, stated as follows:

* * * While it is true that the shielding member 58 of Figure 12 includes a tubular portion, when this member is considered in its entirety, it is not a tube but is rather of cup-shaped form *and is so described in the specification.* * * * [Italics ours.]

[1] We are in agreement with the reasoning of the Board that "cup-shaped part" 58, considered in its entirety, is not a "tube." Nor do we think that the term "tube" includes a "cup-shaped part with an integral base" within the scope of its ordinary meaning.

There are various *kinds* of tubes but nowhere have we been able to find any similarity between "tube," in either a generic or specific sense, and the term "cup-shaped." The dictionaries are all to the same effect as may be illustrated by the following definition of the word "tube":

Webster's New International Dictionary, Second Edition, 1949:

tube, n. A hollow cylinder, of any material, to convey liquids or gases or for some other purpose; as, a fire *tube*; a water *tube*; a condenser *tube* * * * the *tubes* of a tubular bridge; a friction *tube*; the *tube* of a musical instrument; bronchial *tube*; a priming *tube*, etc.
Any similar hollow conduit, often oval, square or polygonal in section.

While a cup-shaped structure may contain a tubular or cylindrical portion, we cannot understand in what manner the term "tube" in claim 60 may properly be considered to encompass, within its ordinary meaning, the "cup-shaped part with an integral base" of claim 28 and shown in Fig. 12. As argued by counsel for appellant, terms in a claim should be considered to be used in their ordinary meaning. In our opinion, the use of the terms in issue, in the manner proposed by appellant, involves an unreasonably strained interpretation of their ordinary meaning. To permit such use would be to ignore the very rules of law which appellant avers are governing in this case.

[2] We find no error in the holding of the Board of Appeals and its decision is accordingly affirmed.

AFFIRMED.

GARRETT, *C. J.*, did not participate in the consideration or decision of this case.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,106,065, E. Rose, Mattress, filed Feb. 6, 1952, D. C., E. D. Mich. (Detroit), Doc. 11287, *Rose-Derry Co.* v. *Progress Bedding Co.*

2,114,013, R. C. Ball, Valve control; 2,150,813, 2,222,699, same, Compensating device for valve control; 2,315,389, Benson & Mageoch, Valve control; 2,319,842, Benson & Plume, same; 2,203,233, E. J. Panish, Valve operating mechanism; 2,318,010, same, Valve control; 2,267,116, Mageoch & Plume, same; 2,286,597, Bruckel & Plume, same, D. C., S. D. Tex. (Houston), Doc. 5549, *E–I–M Co.* v. *Philadelphia Gear Works, Inc.* Plaintiff has withdrawn its request for declaratory judgment with respect to validity of all patents except claim 2 of 2,114,013 which is held valid and infringed; injunction Feb. 11, 1952.

2,146,204, L. Dore, Fluid distributing system; 2,389,412, F. Carlton, Anti-backflow and anti-syphonage valve; 2,389,413, same, Method for preventing backflow or back-syphonage in a pressure system, filed Dec. 18, 1951, D. C., S. D. Calif. (Los Angeles), Doc. 13694–HW, *Back Engineering & Equipment Co. et al.* v. *Febco, Inc.*

2,150,813. (See 2,114,013.) 2,203,233. (See 2,114,013.)

2,222,699. (See 2,114,013.) 2,267,116. (See 2,114,013.)

2,286,597. (See 2,114,013.) 2,315,389. (See 2,114,013.)

2,318,010. (See 2,114,013.) 2,319,842. (See 2,114,013.)

2,355,966, D. C. Goff, Underground insulated pipe system, filed Feb. 11, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13260, *The Zonolite Co. et al.* v. *Universal Insulation Co. et al.*

2,360,736, A. N. Spanel, Seamless dipped latex girdle, filed Feb. 4, 1952, D. C. R. I. (Providence), Doc. 1333, *International Latex Corp.* v. *American Wringer Co., Inc.*

2,389,412. (See 2,146,204.) 2,389,413. (See 2,146,204.)

2,393,612, C. Bullinger, Girdle or foundation garment, filed Feb. 8, 1952, D. C., S. D. N. Y., Doc. 73/148, *Willoform Mfg. Co., Inc.* v. *A. Stein & Co., Inc.*

2,459,880, G. Hill, Bed-rail extension, D. C. Minn. (Minneapolis), Doc. 3492, *The Long Boy Co.* v. *Bechik Products, Inc.* Judgment for defendant Feb. 6, 1952.

2,461,957, P. Berger, Transformer, D. C., E. D. N. Y., Doc. C–10913, *Advance Transformer Co.* v. *A. F. J. Industries, Inc.* Consent judgment favor plaintiff for injunction Jan. 29, 1952.

2,475,572, E. P. Schreyer, Electric steam iron, filed Feb. 12, 1952, D. C., W. D. Mo. (Kansas City), Doc. 7375, *E. P. Schreyer* v. *Rival Mfg. Co.*

2,538,830, S. E. Collinson, Temple for spectacle frames, D. C., S. D. Calif. (Los Angeles), Doc. 13224–Y, *Newport Optical Mfg. Co., Inc.* v. *California Eye Wear, Inc.* Judgment holding patent valid and infringed, injunction granted; complaint dismissed as to unfair competition (notice Feb. 4, 1952).

2,561,270, P. W. Felt, Liquefied petroleum gas lighter, filed Feb. 1, 1952, D. C. Minn. (Minneapolis), Doc. 3970, *Brown & Bigelow, Inc.* v. *Ronson Art Metal Works, Inc., et al.* (To replace incorrect notice published in OFFICIAL GAZETTE of Feb. 5, 1952.)

2,580,716, L. Balamuth, Method and means for removing material from a solid body, filed Feb. 7, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. 12432, *Cavitron Corp.* v. *J. P. Frankfort et al.*

Des. 148,925, H. A. Ganser, Coaster, D. C., S. D. N. Y., Doc. 47/84, *Plastic Jewel Co., Inc.* v. *Lapin Products, Inc.* Stipulation and order of discontinuance (notice Feb. 6, 1952).

Des. 151,732, W. G. Bley, Lady's stocking, D. C., E. D. Pa. (Philadelphia), Doc. 12591, *Sanson Hosiery Mills, Inc., et al.* v. *M. Flaishman & Co., Inc.* Consent judgment favor plaintiff and granting injunction Feb. 7, 1952.

Des. 163,713, S. Savitz, Stocking, D. C., E. D. Pa. (Philadelphia), Doc. 12724, *Magnolia Hosiery Co.* v. *Harmony Hosiery, Inc., et al.* Consent decree favor plaintiff and granting injunction Dec. 17, 1951

NOTICES

Adjudicated Patents

(D. C. Mich.) Anderson Patent No. 1,952,230, for automatic profile milling machine. Claims 13, 15, 18, 24, 33, 38, 46, 57, 60, 67, 72, and 73 *Held* not infringed. *Cincinnati Milling Machine Co.* v. *Turchan*, 101 F. Supp. 621; 89 USPQ 245.

(D. C. Mich.) Wall Patent No. 1,997,890, for universal tracer. Claims 9, 12, and 13 *Held* not infringed. *Id.*

(D. C. Mich.) Wall Patent No. 2,051,430, for universal die sinking attachment for vertical milling mach'nes. Claims 13, 14, and 25 *Held* not infringed. *Id.*

(D. C. Mich.) Roehm and Romaine Patent No. 2,068,889, for milling and profiling machine. Claim 16 *Held* invalid. *Id.*

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,396,094, P. S. Gay, Record changer, decided Feb. 11, 1952, claims 2, 13, 14, and 15.

Pat. 2,479,328, J. A. Dunn, Spreading devices, decided Dec. 19, 1951, claims 2 and 8.

Pat. 2,552,428, A. B. Hildebrandt, Sleeve supported electrode for well logging, decided Feb. 6, 1952, claims 1 and 2.

Erratum

All references to Patent No. 2,587,709 to Richard M. Downey, assignor to United States Gypsum Company, for Method and Apparatus for Fiberising Molten Material, in the OFFICIAL GAZETTE of March 4, 1952, should be deleted as the application was withdrawn from issue and the patent was not issued.

Disclaimers

2,244,591.—*Arthur M. Youngs*, Trenton, and *James S. Ballantine*, Absecon, N. J. APPARATUS FOR TESTING PROPHYLACTIC ARTICLES OF THIN RUBBER. Patent dated June 3, 1941. Disclaimer filed Feb. 6, 1952, by the assignee, *Youngs Rubber Corp. of N. J.*

Hereby enters this disclaimer to claims 1, 5, 9, 10, 11, 13, 14, 15, 16, 17, 20, 21, 22, 23, 24, 25, 26, 27, and 28.

2,535,107.—*Marcel Wallace*, Fairfield County, Conn. NAVIGATIONAL SYSTEM. Patent dated Dec. 26, 1950. Disclaimer filed Feb. 7, 1952, by the inventor, doing business as *Panoramic Laboratories*.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

2,257,126.—*Arthur G. Rindfleisch*, Cincinnati, Ohio. PROPELLER. Patent dated Sept. 30, 1941. Disclaimer filed Feb. 4, 1952, by the assignee, *General Motors Corporation*.

Hereby enters this disclaimer to claims 8 and 31 of said patent.

Cancellation Notices

Paul Kenda, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Harold D. Douglas, 7208 Sepulveda Boulevard, Van Nuys, California, to effect the cancellation of trade-mark registration of Paul Kenda, 424 Carson Street, San Antonio, Texas, No. 370,462, dated August 29, 1939, and the notice of such proceeding sent by registered mail to the said Paul Kenda, at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paul Kenda, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Mar. 11, 1952.)

ERNEST F. KLINGE,
Feb. 12, 1952. *Assistant Commissioner of Patents.*

Stamatis Polychronopoulos, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lekas & Drivas, Inc., 19–21 Roosevelt St., New York, N. Y., to effect the cancellation of trade-mark registration of Stamatis Polychronopoulos, 214 East 22nd St., New York, N. Y., No. 311,412, dated March 20, 1934, and the notice of such proceeding sent by registered mail to the said Stamatis Polychronopoulos, at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Stamatis Polychronopoulos, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Mar. 11, 1952.)

ERNEST F. KLINGE,
Feb. 19, 1952. *Assistant Commissioner of Patents.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,563,483. Reservoir Tubing Cutter. Patented Aug. 7, 1951. Plumber's and steamfitter's hand tool for cutting copper tubing will remove any external burr formed by the cutter and apply soldering flux to the exterior of the tubing during the cutting operation. The tool, of substantially C-shape, has a rotary disc cutter at one end and a flux reservoir inside the same end for supplying flux to cylindrical wire brushes on opposite sides of cutter. A pair of rolls opposite the cutter for cradling copper tubing may be adjusted toward and away from the cutter by turning a screw rod. A burring tool is mounted between the rolls, and a reamer is secured to the outer side of the tool. The tool also carries another cylindrical brush communicating with the reservoir for applying flux to the interior of copper fittings. (Owner) John P. O'Hagan, 1626 Fifth Ave., Pittsburgh, Pa. Groups 33—51—52; 35—43. Reg. No. 46,821.

Pat. 2,572,585. Folding Desk and Table. Patented Oct. 23, 1951. Folding stand of the tripod type has a table top with blocks on the under surface. A double main supporting leg is pivotally mounted between two of the blocks. Two auxiliary legs are pivotally attached to the blocks. The legs are held in extended position by braces. A seat is pivotally and adjustably attached to the main supporting leg. May be made of aluminum, wood, plastic, or the like. (Owner) Harold Boyd Barber, 713 Stephens St., Missoula, Mont. Groups 25—11—14—19; 34—41; 39—81. Reg. No. 46,822.

Pat. 2,569,558. Height Gauge. Patented Oct. 2, 1951. Height gauge has a base with a vertically adjustable scale standard mounted thereon. A scriber slide on standard has a bore in which a plunger is mounted. A guide pin on plunger slides in slots in the slide. The plunger has V-shaped projecting teeth and upper and lower flat side surfaces to engage V-notches in edge of standard for adjusting the slide. Slide has a vertical pivot on which a lever is rockably mounted to lock or release the plunger into or out of engagement with the notches in the standard. Modification given. (Owner) Leo H. Cormier, P. O. Box 1025, Detroit 31, Mich. Group 35—43. Reg. No. 46,823.

Pat. 2,555,748. Metronomic Tempo Indicator. Patented June 5, 1951. Electric metronome for timing music, medical treatment, or gymnastics can operate uninterruptedly, and periodicity and intensity of its signals can be regulated during operation. Device comprises an electric motor and an electric circuit including a sound emitter. The sound emitter is actuated by means of a motor-driven twin cone friction gear, one cone of which is mounted on a spindle having a cam which during each revolution strikes the leaf of a leaf switch in the circuit. Periodicity of emitted sounds is varied by moving an intermediate runner between the cones. This is effected by turning a knob operatively connected by an electromagnetic clutch to a pinion meshing with a rack on the shaft on which the runner is rotatably mounted. Intensity of sounds is governed by a second knob which alters the position of a contact of a rheostat in the circuit. Modification shown. (Owner) W. F. Coningsby, 24 Devonshire Place, London, W. 1, England. Groups 36—19—62; 39—15—30—49. Reg. No. 46,824.

Pat. 2,569,237. Ear Cleaning Instrument. Patented Sept. 25, 1951. Ear-cleaning instrument of a one-piece stainless steel wire construction has an ear-cleaning elongated looped portion and resilient end portions. A grasping element slidably fits over the end portions for holding the device while cleaning the ears. The wire may be magnetised for removing steel or like foreign objects from the ears. May be made in various sizes for infants, children, and adults. Modifications given. (Owner) John M. Hall, 428 East 71st St., New York 21, N. Y. Groups 33—40; 39—15—99; 40. Reg. No. 46,825.

Pat. 2,566,671. Rotary Drilled Hole Enlarger. Patented Sept. 4, 1951. Device for attachment to a rock drill or the like for forming a pocket in the bottom of a drilled hole. A tube is threaded at one end for connection to a rotating device and has parallel diametrically opposite slots at other end. A retaining pin adjacent the slots has an inverted V-shaped spring anchored thereon which extends beyond the slotted ends of the tube. Reaming jaws (with cutter teeth) on outer ends of spring are urged apart by the spring. A catch holds spring and jaws in contracted position. A trip on catch abuts bottom of hole to release the catch and allow expansion of spring and jaws against sides of hole. (Owner) Pearl Edith Livingstone. Correspondence to George B. White, 712 Grant Bldg., 1095 Market St., San Francisco 3, Calif. Group 35—31—32—33—41—43. Reg. No. 46,826.

Pat. 2,565,822. Watch Guard and Band. Patented Aug. 28, 1951. An adjustable guard for wrist watches to be worn by mechanics or men employed in rough work. A rectangular frame to be positioned over the watch to guard the crystal has pins with threaded ends extending downwardly from the corners of the frame to extend through openings in watch band and held thereon by nuts mounted on the pins. (Owner) James F. McClelland, 1676 Fauquier Ave., St. Paul, Minn. Groups 33—49; 34—41—61; 39—81; 40. Reg. No. 46,827.

Pat. 2,547,440. Fluid Conducting Electrically Insulated System. Patented Apr. 3, 1951. Device is designed primarily for safeguarding life by eliminating the danger of electrocution that results from accidental contact with the live side of a grounded system while bathing, shaving, working, etc. It may be installed in a residential water supply system, or any other system carrying electrically conducting fluids, without impeding flow of the fluid. It is composed entirely of non-conducting material, except for a central shaft and two shaft bearings, and consists of a case having inlet and outlet pipes with a turbine-like rotor mounted in a chamber within the case. Fluid in passing through the device revolves the rotor and is divided into segments, mutually connected by very thin films only, resulting in very high electrical resistance between inlet and outlet. (Co-owner) Harold L. Clark, 145 Winter St., Belmont 79, Mass. Groups 30—31—32; 36—11; 39—81; 40. Reg. No. 46,828.

United States Government Owned Patents

The following U. S. Letters Patent and application for U. S. Letters Patent owned by the United States Government as represented by the U. S. Atomic Energy Commission have been made available for licensing by the Commission. Licenses will be granted to applicants on a non-exclusive, royalty-free basis. Applicants for licenses should apply to the Chief, Patent Branch, Office of the General Counsel, U. S. Atomic Energy Commission, Washington 25, D. C., identifying the subject matter by patent number or serial number and title.

Pat. 2,578,906. Electrostatic Generators. Patented Dec. 18, 1951. This patent describes an electrostatic accelerator employing an inert gas under pressure. The large ion beam is pulsed and bunched into alternate spaces of dense and sparse ionic density. Associated means provide for remotely adjusting the potential gradient between the high voltage electrode and the intermediate electrode, and also between the latter electrode and the outer housing so that they may be made equal to one another. Improved evacuation means and the management for withdrawing non-ionised vapor from the vicinity of the ion source result in reduction of scattering of ions from the beam as well as X-rays produced in accelerating system. Group 36—19—61—62. Reg. No. 46,829.

Pat. 2,579,223. Regulated Power Supply. Patented Dec. 18, 1951. The circuit of this patent utilizes a source of high direct-current voltage and provides a high voltage power supply characterised by a high stability and high

degree of regulation in the presence of sharp changes in the loading conditions. Frequency modulation is employed in the regulating loop. The regulation is performed at the ungrounded end of the power supply and the regulating sample voltage is derived at the low end of the regulated voltage supply output. Group 36—19—61—92. Reg. No. 46,830.

Pat. 2,579,243. Methods for the Production of Radio-Active Isotopes. Patented Dec. 18, 1951. This patent describes an improved target arrangement for producing certain radioactive isotopes. A layer of the metaborate of an alkali or alkaline earth metal bonded to a heat-conductive base is bombarded by a stream of high velocity, sub-atomic particles. Group 28—88—89. Reg. No. 46,831.

Pat. 2,579,994. Neutron Density Indicator Devices. Patented Dec. 25, 1951. This patent covers a neutron density detector which is stable and sensitive at both low and high neutron density. The detector comprises two members of dissimilar metals joined together to form a thermocouple or thermopile. The metals have low neutron capture properties and are capable of developing thermo-electromotive force. One junction at least, or every other junction, is coated with a nonfissionable material having higher neutron capture properties than the thermocouple members, thereby providing a hot junction. Groups 36—13; 39—11. Reg. No. 46,832.

Pat. 2,580,349. Methods of Forming Uranium Carbide. Patented Dec. 25, 1951. Uranium monocarbide is produced by heating uranium metal in contact with methane, or an aliphatic hydrocarbon, the hydrocarbon being in such amount that the carbon content thereof corresponds to about 4.8% by weight of the uranium metal content, at temperature in the range of 400° C. to 1125°C. Group 28—88—89. Reg. No. 46,833.

Pat. 2,580,357. Apparatus for the Preparation of Metal Halides. Patented Dec. 25, 1951. This patent describes apparatus for facilitating chemical reactions between a vaporisable solid and a nonvolatile solid comprising four interconnected chambers with associated controlled heating means. Group 28—88—89. Reg. No. 46,834.

Pat. 2,580,358. Methods for Storing Perhaloacetyl Peroxide and Stabilized Perhaloacetyl Peroxide. Patented Dec. 25, 1951. This patent covers means for storage of a perhaloacetyl peroxide which comprises dissolving the peroxide immediately after preparation in a perhalomethane solvent, such as trichlorofluoromethane, and maintaining the resultant solution at a sub-zero temperature until it is put to use. Group 28—89. Reg. No. 46,835.

Pat. 2,580,360. X-Ray Shields. Patented Dec. 25, 1951. This patent pertains to a shield which substantially prevents the transmission of X-rays, gamma rays, and other penetrating radiation. The shield comprises a uranium metal base which is coated with a heavy metal consisting of non-radioactive material of a density at least equal to that of red lead. Group 36—92. Reg. No. 46,836.

Pat. 2,580,373. Processes for Preparing Perhaloacetyl Peroxide. Patented Dec. 25, 1951. This patent covers a method for the preparation of a perhaloacetyl peroxide, comprising dissolving either an alkali or alkaline earth metal peroxide in an aqueous brine solution, cooling the solution to a temperature between its freezing point and 0° C. and adding to the cooled solution a perhalo derivative of acetic acid while maintaining the temperature of the solution in the aforementioned range. Group 28—89. Reg. No. 46,837.

Pat. 2,581,863. Process for Electrodepositing Uranium Dioxide. Patented Jan. 8, 1952. This patent describes a process for preparing thin films of metal compounds, such as uranium oxides and hydroxides, suitable for determination of the radioactivity thereof by counting techniques. The thin uniform film of metal compound is produced by electrodeposition from an alkaline solution. Group 28—88—89. Reg. No. 46,838.

Pat. 2,582,163. Electrometers for Pocket Chambers. Patented Jan. 8, 1952. This patent pertains to an improved charging socket for use with a pocket ionisation chamber. The electrometer has means to compensate for redistribution of charge and change of capacitance upon the removal or insertion of the pocket chamber so as to minimise the change of reading on a charge-indicating device connected in parallel therewith, when inserting or removing the pocket chamber. Group 36—19—61—92. Reg. No. 46,839.

Pat. 2,582,941. Processes of Producing Uranium Chlorides. Patented Jan. 15, 1952. This patent describes a process and apparatus for preparing uranium pentachloride and hexachloride by treating uranium oxides and lower uranium chlorides at an elevated temperature with a chlorinating agent comprising fast flowing stream of air admixed with carbon tetrachloride vapor. The gas stream carries the moderately volatile higher valent uranium chlorides away from the heated reaction zone to a collection zone maintained at a lower temperature. Group 28—88—89. Reg. No. 46,840.

Pat. 2,583,121. Mass Spectrometer Ion Sources. Patented Jan. 22, 1952. This patent describes an ion source mechanism capable of easy and rapid insertion or removal in a mass spectrometer without affecting the vacuum thereof, thus making it possible to readily analyze a number of different samples. Group 36—13—19. Reg. No. 46,841.

Pat. 2,583,469. Calibration Units for Cathode-Ray Tubes. Patented Jan. 22, 1952. This patent covers a calibration unit for cathode-ray tubes, which employs a simple electrical circuit using standard parts, whereby an accurately calibrated system of grid lines is traced on the viewing screen of an oscilloscope prior to applying signal voltages to the deflecting plates. Group 36—61—62—92. Reg. No. 46,842.

Pat. 2,584,801. Pipe Extractor. Patented Feb. 5, 1952. This patent describes a novel clamp suitable for extraction of vertical pipes from locations which are inaccessible. The clamp which may be suspended at the end of a single supporting cable is operated by remote control to lower the same into the end of the pipe and then manipulate to grip and remove the same. Group 35—31. Reg. No. 46,843.

Pat. 2,584,816. Electroplating Control System. Patented Feb. 5, 1952. An electronic electroplating control system is described in this patent which will maintain a constant potential between the cathode and the plating solution despite various changes in conditions which may occur during the electroplating operation. Groups 34—72; 36—19. Reg. No. 46,844.

Pat. 2,585,639. Compensated Electron Discharge Measuring Device. Patented Feb. 12, 1952. This patent describes an electronic device capable of measuring minute unidirectional currents. Proper tube characteristic potentials are provided from a single direct current power supply by means of series resistance connections, thus eliminating the need for separate batteries. Indicating means are provided so that compensation may be readily made for any change in filament current. In addition, associated degenerative means give greater stability and more reliable measurements of the minute currents over a wide range. Groups 36—13; 39—11. Reg. No. 46,845.

Pat. 2,585,644. Process for Producing Fluorocarbons. Patented Feb. 12, 1952. The patent covers a process for producing fluorocarbons containing a minimum of unsubstituted hydrogen atoms from hydrocarbons of from 17 to 23 carbon atoms such as petroleum lubricating oil. The petroleum oil is treated with bismuth pentafluoride at an elevated temperature, in the range of 90° C. to 450° C., either by heating a mixture of the oil and the bismuth pentafluoride, or by passing a vapor stream of the oil over a bed of the fluorinating agent. The reaction product is subjected to suitable separative procedures to obtain the highly fluorinated product. Groups 28—96; 29—11. Reg. No. 46,846.

Pat. 2,585,649. Reaction Comparison Apparatus. Patented Feb. 12, 1952. This patent describes an apparatus which is useful in comparing the nuclear reactions of a plurality of samples. The materials to be compared are mounted in a back to back relationship within an ionisation chamber so as to be irradiated simultaneously by an incident radiation beam. Collecting and measuring means associated with the ionisation chamber make possible accurate comparison of the nuclear reactions. Groups 36—13; 39—11. Reg. No. 46,847.

Pat. 2,585,679. High Voltage Regulator. Patented Feb. 12, 1952. This patent covers a high voltage regulator circuit which is stable over a large range of load conditions. The circuit is so designed that by making a few minor changes the polarity may be reversed. The circuit employs radiofrequency coupling in combination with an amplifier to control operation of a regulator tube in opposition to fluctuations within the load circuit. Group 36—19—61—92. Reg. No. 46,848.

Pat. 2,585,702. Spectrometer. Patented Feb. 12, 1952. This patent describes an improved ion source for a mass spectrometer comprising a coated thermionic ion source and a pair of flat electrodes suitably arranged to focus and direct the ions produced by the source. Groups 36—13; 39—11. Reg. No. 46,849.

Pat. 2,585,901. Method of Isotope Analysis. Patented Feb. 19, 1952. This patent describes a method of determining the isotopic composition of an element comprising incorporating the element in a compound capable of enhancing the corresponding spectral lines characteristic of the isotopes of the element, producing a spectrum of said compound and ascertaining therefrom the relative abundance of the isotopes of the element. Groups 36—13; 39—11. Reg. No. 46,850.

Application for Letters Patent

Ser. No. 255,501. Automatic Air Burst Direction Finder. This patent application describes an atomic explosion direction indicator comprising a geometric heat scorchable indicating surface symmetrical about an axis, elevation and azimuth markings on the heat scorchable surface, and an indicating rod at the axis of said surface arranged to cast a shadow thereon, whereby heat from an atomic explosion will scorch a pattern on said surface indicative of the azimuth and elevation of said explosion. Group 35—65. Reg. No. 46,851.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 18, 1952

[VOL. 656. No. 3]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 518,331. Warner Lewis Company, Tulsa, Okla. Filed Feb. 28, 1947.

EXCELSO

For Hydrocarbon Oil Filters To De-Emulsify Oil and Remove Separated Water.

Claims use since June 15, 1943.

CLASS 37

PAPER AND STATIONERY

Ser. No. 526,027. Western Tablet & Stationery Corporation, Dayton, Ohio. Filed July 3, 1947.

ECHO

For Loose Writing Paper for School or Office Use, Put Up in Wrapped Packages, Boxes, or Banded.

Claims use since 1895 as to "Echo"; and since 1935 as to the mark in the form shown.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

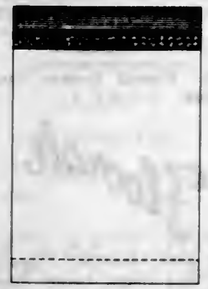
Ser. No. 537,125. Carlton H. Andrew, doing business as The Andrew Brothers, Platteville, Wis. Filed Oct. 8, 1947. (Sec. 2f.)

Andrew Brothers

For Corn Seed Hybrids and Field Seeds.

Claims use since 1928.

Ser. No. 602,680. Ferry-Morse Seed Co., Detroit, Mich. Filed Aug. 24, 1950.



The trade-mark consists of a blue stripe provided at one end with a dark blue triangular tip and a yellow stripe disposed in parallelism adjacent to one another and extending across the face of the packet or envelope within which the seed is contained at one end of the packet or envelope. The representation of the seed envelope or packet is used merely to define the position of the trade-mark and no claim is made to an envelope or packet. Applicant claims ownership of Registrations Nos. 349,469 and 366,399.

For Seeds—Namely, Vegetable, Flower, and Grass Seeds.

Claims use since Aug. 9, 1950.

Ser. No. 607,348. Pedigreed Seed Co., also doing business as Eastern Seed Company, New York, N. Y. Filed Dec. 6, 1950. (Sec. 2f.)

GLENSIDE PARK

For Grass Seed.

Claims use since 1938.

Ser. No. 607,351. Pedigreed Seed Co., also doing business as Eastern Seed Company, New York, N. Y. Filed Dec. 6, 1950. (Sec. 2f.)

OXFORD PARK

For Grass Seed.

Claims use since 1938.

Ser. No. 607,531. Clarence Arthur Hobbs, Ottawa, Ontario, Canada. Filed Dec. 8, 1950.

MERMAID

Applicant claims ownership of Canadian Registration No. NS. 144/36,934, dated Nov. 14, 1950.

For Treated Natural Fern Used for Decorative and Ornamental Purposes.

Ser. No. 616,255. Tecumseh Coal Corporation, Chicago, Ill. Filed July 9, 1951.



The drawing is lined to indicate red. The word "Coal" is disclaimed. The pictorial illustration is of a fanciful person.

For Coal.

Claims use since June 4, 1951.

Ser. No. 616,417. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed July 13, 1951.

MYLAR

For Polyester Film.

Claims use since June 21, 1951.

CLASS 2

RECEPTACLES

Ser. No. 530,206. Ivers-Lee Company, Newark, N. J. Filed Aug. 1, 1947. (Sec. 2f.)

CATCH-COVER

Applicant claims ownership of Registration No. 398,339.

For Envelope-Like Sealed Containers Made of Two Opposed Layers of Sheet Material, Such as Cellophane, Metal Foil or Rubber Hydrochloride, Thermoplastically Sealed Together To Form a Compartment or Compartments for the Article or Substance in the Form of Pills, Tablets, Creams or Powder To Be Packaged, and Enclosed Within a Folded Paper Cover, the Envelope-Like Sealed Containers Being Made and Filled by the Applicant for Manufacturers Who Forward the Contents of the Containers to Applicant for Packaging.

Claims use since 1940.

Ser. No. 583,335. Paul S. Donchian, Hartford, Conn. Filed Aug. 11, 1949.

Symmetray

For Dishes and Trays Made of Paper or Plastic.

Claims use since Aug. 1, 1949.

Ser. No. 600,721. General Paper Co., Inc., Coatesville, Pa., assignor to West Disinfecting Company, New York, N. Y., a corporation of New York. Filed July 15, 1950.

DorisWest

The mark shown on the drawing is fanciful.

For Metal Portable Paper Towel Holders.

Claims use since May 1, 1950.

Ser. No. 600,850. Rex Redwood Shop, Eureka, Calif. Filed July 18, 1950.

TREE HOUSE

For Wooden Products Comprising Jewel Boxes, Serving Trays, Flower Pots, Boxes for Holding Matches, Vases, Pitchers, Compacts, Powder Boxes, Hors d'Oeuvre Trays, Bowls, Nut Dishes, Tooth Pick Holders, Perfume Flasks, Card Boxes, Salt and Pepper Sets, and Salad Bowls.

Claims use since May 1933.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 616,177. Leeds Travelwear Corporation, New York, N. Y. Filed July 6, 1951.

Trip-Zip

For Garment Hanger-Bags for Traveling and Storage.

Claims use since June 20, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 566,575. Bernard J. Ellis Limited, South Woodford, London, England. Filed Oct. 7, 1948.

Apollo

For Automobile Polishes, in Liquid or Paste Form.

Claims use since 1929 in Great Britain; and since Jan. 20, 1947, in commerce between Great Britain and the United States.

Ser. No. 576,487. Finnell System, Inc., Elkhart, Ind. Filed Apr. 1, 1949.

Floorall

For Polishing and Cleaning Preparations—Namely, Scrubbing Soaps, Wax Soaps, Liquid Spirit Waxes, Paste Waxes, and Rug Shampoos.

Claims use since Sept. 28, 1948.

Ser. No. 580,244. S. C. Johnson & Son, Inc., Racine, Wis. Filed June 10, 1949. (Sec. 2f.)

NO-BUFF

For Liquid Polish for Finishing and Coating Floors and Other Surfaces of Wood, Linoleum, Rubber, Cork, Tile, Asphalt, Concrete, Cement, Composition, Mastic, Magnesite, Terrazzo, Marble, Travertine, Stone, Slate, and Metal.

Claims use since Aug. 1, 1935.

Ser. No. 584,512. W. J. Steele, doing business as Jewell Polish Company, Los Angeles, Calif. Filed Sept. 6, 1949. (Sec. 2f.)

BEAUTY-SHINE

Applicant claims ownership of Registration No. 260,548.

For Auto Polish, Furniture Polish, Polishes for Glass, Chromium, and Metal; Glaze and Finishing Cream for Polishing Lacquered and Synthetic Surfaces, Abrasive Rubbing Compound for Removing Oxidation From Automobiles and for Finishing Fresh Lacquered Surfaces and Re-Sealer in the Form of a Polish for Preserving Car Finishes.

Claims use since June 1, 1925.

Ser. No. 605,840. Behr-Manning Corporation, Troy, N. Y. Filed Nov. 3, 1950.

Behrlite

For Coated Abrasives.

Claims use since Aug. 10, 1950.

Ser. No. 609,435. The Clover Manufacturing Company, Norwalk, Conn. Filed Jan. 31, 1951.

CLOVER

Applicant claims ownership of Registration No. 424,349.

For Abrasive Compounds—Namely, Grinding and Lapping Compounds, Polishing and Finishing Compounds, Valve Grinding Compounds; Coated Abrasive Materials—Namely, Abrasive Cloths, Papers and Fibrous Materials, for Example Paper, Cloth, Resin-Bonded Fibre Bodies, Coated With Adhesive Substances to Which Abrasive Grains Are Applied; Abrasive Grains; Abrasive Wheels and Abrasive Discs.

Claims use since 1903.

CLASS 5

ADHESIVES

Ser. No. 606,067. Armour and Company, Chicago, Ill. Filed Nov. 8, 1950.

KONTAX

For Glue.

Claims use since Oct. 12, 1950.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 579,491. Finger Lakes Chemical Company, Inc., Ithaca and Etna, N. Y. Filed May 25, 1949. (Classified in Class 52.)

The words "Finger Lakes Chemical Co., Inc.," "Ithaca, New York—P. O. Etna, N. Y.," and the pictorial representation of the Finger Lakes are disclaimed. Applicant claims ownership of Registration No. 389,843.

See this serial number in Class 52 for goods and mark.

Claims use since June 29, 1940.

Ser. No. 590,806. Chase Products Co., Maywood, Ill. Filed Jan. 13, 1950. (Sec. 2f as to the surname "Chase's.")



The running figure is fanciful. Applicant claims ownership of Registration No. 540,465.

For Ant and Roach Powder, Both With and Without DDT, Red Squill in Powder and Lump Form, Liquid Ant Killer, DDT Insecticide Dusting Powder and Spray, Deodorant Spray in Aerosol Bombs, Ant, Rat and Mice Killer, and DDT Insecticide Spray in Aerosol Bombs.

Claims use since January 1929.

Ser. No. 594,528. Doughty Research and Development Corporation, New York, N. Y., assignor to The Miracloy Corporation, New York, N. Y., a corporation of New York. Filed Mar. 24, 1950.

MIRACALOY

For Steel Hardening Compounds.

Claims use since May 18, 1949.

Ser. No. 602,728. Robert E. Click, doing business under the assumed name and style of Restaurant Specialty Company, Portland, Oreg. Filed Aug. 18, 1950.

RESPESAN

For Powerful Germicidal Sanitizer, Designed for the Purpose of Sanitizing Eating and Drinking Utensils in Restaurants, Bars and Taverns; Sanitizing Refrigeration, Storage Areas, Counters, Booths, Tables, Washrooms and Toilets; Also as a Hand Rinse and as a Sanitizer and Disinfectant for Equipment Used in Dairies, Milk Farms, Food Processing Plants, Hotels, Hospitals and for Household Use.

Claims use since June 20, 1949.

Ser. No. 607,052. L. Sonneborn Sons, Inc., New York, N. Y. Filed Nov. 28, 1950.

DYNEX

For Wetting Agent.
Claims use since May 1950.

Ser. No. 607,779. Sterling Industries, Inc., Dallas, Tex. Filed Dec. 16, 1950.

Sheeld

For Anti-Corrosive or Corrosion Inhibitor.
Claims use since Feb. 3, 1950.

Ser. No. 611,977. Radiator Specialty Company, Charlotte, N. C. Filed Mar. 29, 1951. (Classified in Class 15.)
Applicant claims ownership of Registrations Nos. 220,740, 286,370, and 408,893.
See this serial number in Class 15 for goods and mark.
Claims use since July 25, 1941.

Ser. No. 613,872. Gevaert Photo-Producten N. V., Mortsel, Belgium. Filed May 15, 1951.

GEVACOPY

Applicant claims ownership of Belgian Registration No. 15,131, dated Mar. 12, 1951; United States Registrations Nos. 162,250, 162,251, and others.
For Chemical Preparations for Photographic Purposes—Namely, Photographic Developers, and Photographic Fixers.

Ser. No. 613,915. J. M. Huber Corporation, Red Bank, N. J., and New York, N. Y. Filed May 16, 1951.

AROVEL

For Carbon Black.
Claims use since May 2, 1951.

Ser. No. 616,318. Hercules Powder Company, Wilmington, Del. Filed July 11, 1951.

KYMENE

For Wet-Strength, Synthetic Resin for Paper.
Claims use since May 31, 1951.

Ser. No. 616,327. National Lead Company, Sayreville, N. J., and New York, N. Y. Filed July 11, 1951.

LIGNOX

For Compositions for Treatment of Oil-Well Drilling Fluids.
Claims use since Apr. 23, 1951.

Ser. No. 616,384. Barnet Ostrow, doing business as Ronal Chemicals, Brooklyn, N. Y. Filed July 12, 1951.

RONAL

For Chemical Compositions for Addition to Electrolytic Plating Baths.
Claims use since October 1945.

Ser. No. 616,916. Michigan Chemical Corporation, St. Louis, Mich. Filed July 25, 1951.

ANTMASTER

Applicant claims ownership of Registrations Nos. 348,015, 442,099, 440,847, 512,602, 528,184, 527,638, and 535,490.
For Insecticide.
Claims use since Mar. 31, 1948.

Ser. No. 616,917. Michigan Chemical Corporation, St. Louis, Mich. Filed July 25, 1951.

MITEMASTER

Applicant claims ownership of Registrations Nos. 348,015, 442,099, 440,847, 512,602, 528,184, 527,638, and 535,490.
For Insecticide.
Claims use since Mar. 31, 1948.

Ser. No. 616,951. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed July 26, 1951.

Kodafix

For Photographic Fixing Solution.
Claims use since July 5, 1951.

Ser. No. 617,008. Automobile Dealers Associates, Inc., Chicago, Ill. Filed July 27, 1951.

ADA

For Anti-Freeze Solution.
Claims use since Sept. 20, 1947.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 581,363. Sears, Roebuck and Co., Chicago, Ill. Filed June 30, 1949.

MAGIC SEAL

The word "Seal" is disclaimed.
For Tobacco Pouches.
Claims use since July 15, 1947.

CLASS 10

FERTILIZERS

Ser. No. 618,503. Mathieson Chemical Corporation, Baltimore, Md. Filed Sept. 7, 1951.

SASCO

Applicant claims ownership of Registrations Nos. 521,671 and 531,240.
For Fertilizer.
Claims use since June 17, 1951.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 601,403. Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Filed July 29, 1950.

ANSICO.

For Dry Colors and Pigments in the Dry State and as a Paste Ground Into Vehicles for Use in Printing Inks.
Claims use since July 10, 1934.

Ser. No. 601,405. Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Filed July 29, 1950.

BONANZA

For Dry Colors and Pigments in the Dry State and as a Paste Ground Into Vehicles for Use in Printing Inks.
Claims use since May 20, 1935.

Ser. No. 601,409. Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Filed July 29, 1950. (Sec. 2f).

FLAMING

For Dry Colors and Pigments for Printing Inks in the Dry State and as a Paste Ground Into Vehicles.
Claims use since July 10, 1934.

Ser. No. 601,416. Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Filed July 29, 1950.

RUBICON

For Dry Colors and Pigments in the Dry State and as a Paste Ground Into Vehicles for Use in Printing Inks.
Claims use since Mar. 12, 1942.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 590,523. F. E. Schundler & Co. Inc., Joliet, Ill. Filed Jan. 7, 1950.

HYDRASIL

For High Temperature, Molded Block and Pipe Thermal Insulation.
Claims use since 1941.

Ser. No. 591,912. Reginald V. Cayce, San Francisco, Calif. Filed Feb. 3, 1950.

MONOCRETE

For Concrete Prefabricated Building Units or Pieces—Namely, Blocks, Slabs, Beams, and Piers.
Claims use since Jan. 5, 1950.

Ser. No. 599,421. Douglas Fir Plywood Association, Tacoma, Wash. Filed June 20, 1950.

HEMLOCK · Int · A-D · dfpa ·

The word "Hemlock" is disclaimed.
For Plywood.
Claims use since Dec. 15, 1949.

Ser. No. 602,038. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed Aug. 10, 1950.



The word "Glass" is disclaimed. Applicant claims ownership of Registrations Nos. 118,792, 285,973, and 384,518.
For Colored Opaque Glass Tiles; Multiple Glass Sheet Glazing Units Composed of Two or More Lites of Glass Separated by an Air Space for Buildings, Display Windows, Display Cases and the Like; and Window Units Embodying Sheets or Plates of Glass Coated With Transparent Oxide for Use in Glazing Openings Where De-Icing or Electrostatic Dissipation or Radio Frequency Shielding Is Desired.
Claims use since May 31, 1950.

Ser. No. 605,289. Alprodco, Inc., Mineral Wells, Tex. Filed Oct. 23, 1950.

ALPRODCO

For Farm and Ranch Gates, Stockyard Gates, Lawn, Ornamental and Industrial Gates, and Radio and Television Towers.
Claims use since June 1946.

Ser. No. 605,895. C-Thru Aluminum Awning Co., Los Angeles, Calif. Filed Nov. 4, 1950.

AIR-THRU

For Metal Slat Type Awnings, Sold Collapsed in Packages.
Claims use since May 29, 1950.

Ser. No. 611,580. Pabco Products Inc., San Francisco, Calif. Filed Mar. 20, 1951.

CALTHERM

For Magnesia Heat Insulating Material Sold in the Form of Blocks and Arcuate Segments.
Claims use since Feb. 28, 1951.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 560,416. Harold J. Kohler, doing business as Monarch Laboratories and Monarch Labs., Chicago, Ill. Filed June 29, 1948.

ODORITE

For Unfilled Metal Fixtures Adapted To Be Mounted on a Wall To House Deodorants in Block Form Made of Perfumed Paradichlorobenzene, Commonly Referred to as Deodorizers.
Claims use since January 1947.

Ser. No. 564,624. Hubbard and Company, Pittsburgh, Pa. Original filed, act of 1946, Supplemental Register, Sept. 3, 1948; amended to application, Principal Register, Feb. 7, 1950. (Sec. 2f.)

DRIVEPOINT

Applicant claims ownership of Registration No. 394,874.
For Bolts.
Claims use since Feb. 6, 1940.

Ser. No. 565,147. Stewart-Warner Corporation, Chicago, Ill. Filed Sept. 14, 1948.

"LUBRIGUARD"

For Lubricant Receiving Fittings for Machinery and Vehicles.
Claims use since December 1939.

Ser. No. 568,225. Well Equipment Mfg. Corp., Houston, Tex. Filed Nov. 8, 1948. (Sec. 2f.)

FREEFLOW

Applicant claims ownership of Registration No. 405,855.
For Pipe Unions.
Claims use since Oct. 30, 1941.

Ser. No. 568,593. The Donley Brothers Company, Cleveland, Ohio. Filed Nov. 12, 1948. (Sec. 2f.)

DONLEY DEVICES

Applicant claims ownership of Registrations Nos. 169,590, 175,033, and 177,408.
For Metal Inserts for Securing Bolts to Concrete Surfaces; Metal Clothes Posts for Permanent Positioning in the Ground; Floor Traps; Wall Plugs for Use in Securing Wood to Masonry; Septic Tanks; Slop Sinks; Sewer Pipe Strainers; and Bell Type Floor Traps.
Claims use since Nov. 29, 1919.

Ser. No. 587,771. United Aircraft Products, Inc., Dayton, Ohio. Filed Nov. 14, 1949.

moldaire

For Metal Pans and Like Vessels Useful in Baking and in the Preparation of Food Molds.
Claims use since Jan. 1, 1949.

Ser. No. 591,642. Stokes Molded Products, Inc., Trenton, N. J. Filed Jan. 28, 1950.



Applicant claims ownership of Registrations Nos. 292,057 and 293,884.
For Floats for Water Closet Tanks, Foot Baths, Nozzles for Watering Devices.
Claims use since Dec. 4, 1948.

Ser. No. 592,642. Lional Plastics Corporation, New York, N. Y. Filed Feb. 17, 1950.

Mule Train

The word "Mule" is disclaimed. The drawing is lined for shading.
For Puzzle Key Chains.
Claims use since Dec. 16, 1949.

Ser. No. 598,250. Walker W. Goode, Humphrey, Nebr Filed May 27, 1950.

4 IN 1

For Metal Farm Gates.
Claims use since Apr. 10, 1950.

Ser. No. 619,024. Keystone Wire Cloth Company, Hanover, Pa. Filed Sept. 20, 1951.



For Metal Insect Screening.
Claims use since May 1948.

Ser. No. 619,025. Keystone Wire Cloth Company, Hanover, Pa. Filed Sept. 20, 1951.

Keystone

For Metal Insect Screening.
Claims use since May 1948.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 593,703. American Steel Band Company, Pittsburgh, Pa. Filed Mar. 10, 1950.

STEELBESTOS

For Protected Steel Sheets for Constructing Ventilators, Louvers, Roofing, Siding, and Partitions, the Sheet of Metal Being Protected by Having Weather and Corrosion Repellant Materials Bonded to It.
Claims use since Apr. 7, 1949.

CLASS 15

OILS AND GREASES

Ser. No. 611,977. Radiator Specialty Company, Charlotte, N. C. Filed Mar. 29, 1951.



Applicant claims ownership of Registrations Nos. 220,740, 286,370, and 408,893.
For Water Pump Lubricant and Rust Inhibitor, Penetrating Oil, Fuel Oil Additive, and Rubber Lubricant.
Claims use since July 25, 1941.

Ser. No. 613,183. Motor Chemical Corporation, Chicago, Ill., assignor to Leo Corporation, Chicago, Ill., a corporation of Illinois. Filed Apr. 26, 1951.

PD

Applicant claims ownership of Registration No. 410,679.
For Combustion Catalysts for Gasoline and Fuel Oils, and Gasoline and Fuel Oils Containing Combustion Catalysts.
Claims use since July 1949.

Ser. No. 613,573. K and H Oil Company, Minneapolis, Minn. Filed May 5, 1951.

ZOOM

For Gasoline.
Claims use since Dec. 15, 1949.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 485,692. Elizabeth M. O'Brien, Buffalo, N. Y., assignee of Elizabeth M. O'Brien, as executrix of Daniel P. O'Brien, deceased. Original filed, act of 1905, July 11, 1945; amended to application under act of 1946, Principal Register, May 9, 1950.

Dan O'Brien

Daniel P. O'Brien, deceased, is the individual whose name is used as the trade-mark sought to be registered.
For Cigars.
Claims use since December 1908.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 575,961. Barrett Products Co., Philadelphia, Pa. Filed Mar. 24, 1949.

BARRETT'S Styp-it!

The word "Barrett's" is disclaimed.
For Antiseptic Styptic Powder.
Claims use since Oct. 15, 1948.

Ser. No. 576,600. Oscar N. Thivierge, Yonkers, N. Y., and East Douglass, Mass. Filed Apr. 4, 1949. (Sec. 2f.)



Applicant claims ownership of Registration No. 221,862.
For Liquid Medicinal Preparation Composed of White Spruce To Be Used as an External Application for Muscular Soreness Due to Exertion or Exposure, Bruises, Headache, and Neuralgia and Internally as an Astringent.
Claims use since Mar. 30, 1926.

Ser. No. 587,067. Air Engineering, Inc., San Francisco, Calif. Filed Oct. 31, 1949.

nite-wick

The word "Wick" is disclaimed.
For Liquid Air Treating Inhalant Used for Therapeutic Purposes.
Claims use since Sept. 7, 1949.

Ser. No. 590,171. Mead Johnson & Company, Evansville, Ind. Filed Dec. 30, 1949.

PROBANA

For Pharmaceutical Dietary Preparation Designed for the Treatment of Certain Disturbances of Normal Intestinal Function.
Claims use since Sept. 14, 1949.

Ser. No. 590,520. Pioneer Hi-Bred Corn Company, Des Moines, Iowa. Filed Jan. 7, 1950.

HY-LINE

For Poultry Medicines for the Treatment of Coccidiosis, Cannibalism, Cecal Worms, and Fowl Pox and Cholera.
Claims use since June 6, 1949.

Ser. No. 590,896. Jean U. Koree, New York, N. Y., assignor to Pharmacus Corporation, New York, N. Y., a corporation of New York. Filed Jan. 14, 1950.

LAXA TEA

The word "Tea" is disclaimed.
For Laxative Preparation.
Claims use since Jan. 2, 1950.

Ser. No. 595,978. Lydia E. Pinkham Medicine Company, Lynn, Mass. Filed Apr. 19, 1950.

DUTROL

For Vaginal Douche Powder.
Claims use since Mar. 27, 1950.

Ser. No. 596,503. H. A. Mackie and J. Harry Warner, Jr., Covington, La. Filed Apr. 28, 1950.



Applicant claims ownership of Registrations Nos. 152,221 and 282,430.
For Oil in the Nature of an Antiseptic and Liniment Used for the Treatment of Cuts, Burns, Bruises, Stings, Chaps, Sunburn, Prickly Heat, Skin Eruptions, Sore Feet, Sore Muscles, Ordinary Sore Throat, Bronchitis, Tonsillitis, Whooping Cough, Asthma, and Head Colds.
Claims use since Dec. 15, 1919.

Ser. No. 600,568. Brayten Pharmaceutical Company, Chattanooga, Tenn. Filed July 13, 1950.

BROMTH

For Medicinal Preparation Used in the Treatment of Premenstrual Tension and Motion Sickness.
Claims use since May 26, 1950.

Ser. No. 600,647. Chemico Laboratories, Inc., Indianapolis, Ind. Filed July 14, 1950.

MYOCARDONE

For Tablet for Treatment of Heart Disease.
Claims use since September 1938.

Ser. No. 602,062. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Aug. 10, 1950. (Sec. 2f.)

ULMER Quality

The word "Quality" is disclaimed. Applicant claims ownership of Registration No. 306,646.
For Medical Preparations—Namely, an Analgesic, Antipyretic, and Sedative Tablet; a Stimulating Ointment for the Treament of Indolent Sores and Ulcers; an Analgesic, Antipyretic, and Sedative Tablet; a Soothing and Emollient Benzocaine and Benzoic Ointment; a Stabilized Lotion of Calamine, Ammoniated Mercury, and Zinc Oxide for Treatment of Skin Diseases; Aluminum Hydroxide Gel for Use as Antacid and Adsorbent; an Ointment of Cod Liver Oil and Vitamins With Phenol for Use in the Treatment of Burns and Indolent Ulcers; an Ointment of Chloral Hydrate, Methyl Salicylate, and Menthol for Treatment of Bruises, Sprains and Local Congestions; an Ointment of Crude Coal Tar and Zinc Oxide for Use in the Treatment of Skin Diseases; an Ointment of Copper Undecylenate for the Treatment of Ringworm, Athletes Foot and Other Fungus Conditions; an Aromatic Inhalant for the Treatment of Nasal Affections; a Combination of Ammonium Chloride and Tincture of Opium Camphorated in a Palatable Vehicle Flavored With Tolu for the Treatment of Coughs Due to Common Colds; a Greaseless and Cooling Carbonis Detergens Cream Used in the Treatment of Various Dermatoses; an Ointment of Tar and Sulfathiazole for the Treatment of Infected Dermatoses; an Ointment of Sulfathiazole With Vitamins A and D for the Treatment of Superficial Wounds and Infections of the Skin; a Non-Irritating, Stainless Tar Cream Used in the Treatment of Skin Diseases; an Ointment To Avoid or Prevent Skin Irritation.
Claims use since Apr. 12, 1933.

Ser. No. 605,386. Winthrop-Stearns Inc., New York, N. Y. Filed Oct. 24, 1950.

PENTOBROCANAL

Applicant claims ownership of Registration No. 338,191.
For Anesthetic, Hypnotic, and Sedative Preparation.
Claims use since Sept. 14, 1950.

Ser. No. 606,566. Chas. Pfizer & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc., a corporation of Delaware. Filed Nov. 17, 1950.

TIOLUTINA

For Antibiotic Preparation for Use in Antimicrobial Therapy.
Claims use since Nov. 9, 1950.

Ser. No. 606,613. The Kendall Company, Boston, Mass. Filed Nov. 18, 1950.

PHENYLIUM

For Keratin Exfoliative.
Claims use since Aug. 28, 1950.

Ser. No. 606,626. Neurolene Corporation, New York, N. Y. Filed Nov. 18, 1950.

NEUROLENE

For Anesthetic Sold to, and Used by, Physicians and Dentists and Administered in Combination With Nitrous Oxide-Oxygen Anesthesia.
Claims use since Jan. 1, 1948.

Ser. No. 607,768. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Dec. 16, 1950.

ELROXIN

For Hormone Preparation for Use as a Metabolic Stimulant.
Claims use since Oct. 17, 1950.

Ser. No. 607,933. Ciba Limited, Basel, Switzerland. Filed Dec. 21, 1950.

CARBANTREN

Applicant claims ownership of Swiss Registration No. 89,085, dated Sept. 22, 1936.
For Antiseptic Used in the Treatment of Gastro-Intestinal Affections of a Dyspeptic Nature.

Ser. No. 608,642. United Laboratories, Ltd., Pasadena, Calif. Filed Jan. 10, 1951.

ACTROPE

For Preparations of Adrenocortico-Tropic-Hormone.
Claims use since Jan. 15, 1950.

Ser. No. 610,930. The Upjohn Company, Kalamazoo, Mich. Filed Mar. 6, 1951.

Gelfilm

Applicant claims ownership of Registrations Nos. 429,268 and 436,577.
For Medicinal Preparation for Use as a Hemostatic Agent in Surgical and Medical Techniques.
Claims use since Jan. 30, 1951.

Ser. No. 612,198. Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Filed Apr. 4, 1951.

ADYSMENE®

Priority under Sec. 44(d). Swiss application filed Oct. 9, 1950, Registration No. 135,918, dated Oct. 9, 1950. Applicant claims ownership of Swiss Registration No. 135,918, dated Oct. 9, 1950.
For Pharmaceutical Preparations for the Treatment of Dysmenorrhoea.

Ser. No. 613,303. Medicone Company, New York, N. Y. Filed Apr. 28, 1951.

MEDITINIC
A MEDICONE PRODUCT

The words "A" and "Product" are disclaimed. Applicant claims ownership of Registrations Nos. 393,085, 405,462, and others.
For Preparation for Anaemia and Other Vitamin Deficiencies.
Claims use since Apr. 26, 1951.

Ser. No. 613,342. Norden Laboratories. Lincoln, Nebr. Filed Apr. 30, 1951.

Vaccinol

For Biological Product Consisting of Cultures of Clostridium Chauvoei and Clostridium Septicus Combined in the Form of a Bacterin for the Protection of Young Cattle and Other Ruminants Against Blackleg and Blackleg Complicated With Malignant Edema.
Claims use since September 1937.

Ser. No. 614,012. Schering Corporation, Bloomfield, N. J. Filed May 17, 1951.

SCHERAD

For Radioactive Medicinal Preparations Wherein the Radioactive Element of the Compounds May Be Employed Both To Trace the Action of the Compounds in Living Organs and To Obtain the Therapeutic Effect of Radioactivity in Those Parts of the Body Where the Compounds Are Deposited.
Claims use since Mar. 27, 1951.

Ser. No. 616,593. Dome Chemicals, Inc., New York, N. Y. Filed July 17, 1951.

DOMOGYN

For Deodorant and Douche for Feminine Hygiene.
Claims use since June 1950.

Ser. No. 616,679. A. H. Robins Co., Inc., Richmond, Va. Filed July 19, 1951.

DONNAGEL

For Antacid Preparation in Tablet Form.
Claims use since June 5, 1951.

Ser. No. 616,872. Schering Corporation, Bloomfield, N. J. Filed July 24, 1951.

CORTADREN

For Hormone Preparation.
Claims use since July 18, 1951.

Ser. No. 616,934. Air Reduction Company, Incorporated, New York, N. Y. Filed July 26, 1951.

METAMAR

For Inhalation Anesthetic.
Claims use since May 18, 1951.

Ser. No. 616,935. Air Reduction Company, Incorporated, New York, N. Y. Filed July 26, 1951.

VINAMAR

For Inhalation Anesthetic.
Claims use since June 7, 1951.

CLASS 19

VEHICLES

Ser. No. 617,892. Superior Coach Corporation, Lima, Ohio, and Kosciusko, Miss. Filed Aug. 20, 1951.

Pathfinder

For School Coaches and Motor Coach Bodies.
Claims use since January 1951.

Ser. No. 618,365. Packard Motor Car Company, Detroit, Mich. Filed Sept. 4, 1951.

EASAMATIC

For Automobile Brakes.
Claims use since Aug. 29, 1951.

Ser. No. 619,057. American Bosch Corporation, Springfield, Mass. Filed Sept. 21, 1951. (Sec. 2f.)

AMERICAN BOSCH

Applicant claims ownership of Registrations Nos. 284,429, 293,203, and others.
For Windshield Wipers.
Claims use since Nov. 14, 1923.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 591,100. The Okonite Company, Passaic, N. J. Filed Jan. 19, 1950.

YELLOW CORE

For Electrical Insulating Friction Tapes and Electrical Insulating Tapes.
Claims use since Oct. 19, 1949.

Ser. No. 593,184. Nelson Specialty Corporation, San Leandro, Calif. Filed Feb. 28, 1950. (Sec. 2f.)

NELSON

For Electrical Welding Apparatus.
Claims use since May 1944.

Ser. No. 610,023. The Pure Oil Company, Chicago, Ill. Filed Feb. 13, 1951.

Pure-sure

For Battery Cables and Battery Chargers.
Claims use since June 1948.

Ser. No. 617,677. Price Battery Corporation, Hamburg, Pa. Filed Aug. 14, 1951. (Sec. 2f.)

LYONS

Applicant claims ownership of Registrations Nos. 132,994, 132,995, and 298,162.
For Storage Batteries.
Claims use since Jan. 1, 1920.

Ser. No. 617,760. Lockheed Aircraft Corporation, Burbank, Calif. Filed Aug. 16, 1951.

LOCKFOAM

For Expanded Cellular Resin Plastic Materials for Use as Electrically Insulating Panels and Cores Therefor, as Encasing and Potting Agents for Electrical Apparatus, and Cores for Radome Enclosures and Antennas for Aircraft.
Claims use since Mar. 9, 1950.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 572,907. Karl R. Larson, doing business as Larson Bait Company, Aitkin, Minn. Filed Jan. 27, 1949.

FISHTRAP

For Artificial Fish Lures.
Claims use since July 19, 1948.

Ser. No. 590,972. Samuel Brateman, Houston, Tex. Filed Jan. 17, 1950.

HOLLY DOLLY BED

The words "Dolly Bed" are disclaimed.
For Miniature Hollywood-Style Toy Bed.
Claims use since Dec. 22, 1949.

Ser. No. 594,292. Anton Stettner, Corpus Christi, Tex. Filed Mar. 20, 1950.

"Plugging Shorty"

For Artificial Fish Lures.
Claims use since December 1947.

Ser. No. 603,248. Packaged Products Corporation, New York, N. Y. Filed Sept. 7, 1950.

BUST-O

The term "Bust" is disclaimed.
For Frangible Targets for Use in Rifle and Pistol Shooting.
Claims use since June 23, 1950.

Ser. No. 611,533. Researchers Universal, Inc., Sonoma, Calif. Filed Mar. 19, 1951.

Jimmy Green

The name "Jimmy Green" is fanciful.
For Fishing Rods.
Claims use since Sept. 20, 1950.

Ser. No. 619,976. E. B. Miller Associates, Inc., New York, N. Y. Filed Oct. 13, 1951.

TIMPO

For Miniature Three-Dimensional Soldiers, Figures, Models, and Animals for Use as Toys.
Claims use since July 1950.

Ser. No. 620,095. Lucille Emerick, New York, N. Y. Filed Oct. 17, 1951.



The stippling shown on the drawing is for shading.
For Toy Set Comprising a Base in the Form of a Fanciful Figure and a Plurality of Covers Delineating Different Characters and Adapted To Be Selectively Buttoned Onto Said Base so as To Change the Representation Thereof.
Claims use since July 30, 1951.

Ser. No. 620,622. Rawlings Manufacturing Company, St. Louis, Mo. Filed Oct. 29, 1951.

Accelerated

For Playballs of the Kind Designated as Softballs.
Claims use since July 10, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 543,087. Bower Roller Bearing Company, Detroit, Mich. Filed Dec. 3, 1947.

SPHER-O-HONED

The word "Honed" is disclaimed.
For Anti-Friction Bearings.
Claims use since Nov. 1, 1947.

Ser. No. 544,669. Wholesaler's Service Co., St. Louis, Mo. Filed Oct. 27, 1947. (Sec. 2f as to "Matched"—Additional evidence.)



Applicant claims ownership of Registration No. 351,760.
For Automobile and Similar Clutches and Parts Thereof.
Claims use since Oct. 27, 1936.

Ser. No. 580,552. Arthur H. Ihsen, doing business under the name of Ajax Expander Company, Fairview, Pa. Filed May 7, 1949. (Sec. 2f.)

COLLINS

Applicant claims ownership of Registration No. 49,323.
For Tube Expanders.
Claims use since January 1880.

Ser. No. 587,084. Her Majesty Dishwasher Co., Los Angeles, Calif. Filed Oct. 31, 1949.



For Non-Electric Dishwashing Machines.
Claims use since July 1947 as to the words "Her Majesty"; and since May 1949 as to the mark shown.

Ser. No. 589,791. Samuel Lieberman, doing business as Filter-Kleen Mfg. Co., Everett, Mass. Filed Dec. 22, 1949.

Atomic

For Knife Sharpener Consisting of Pieces of Abrasive Material Supported in Encasing Material Which Partly Envelops the Abrasive and Is Slotted To Act as a Guide for a Blade To Be Sharpened.
Claims use since July 6, 1949.

Ser. No. 591,775. Fisk, Inc., Mayfield Heights, Ohio. Filed Feb. 1, 1950.

ALL-SET

For Razors and Shaving Equipment (Including a Permanently Assembled Razor Frame and Blade Together With a Small Tube of Shaving Cream) Sold as a Unit.
Claims use since Mar. 12, 1948.

Ser. No. 595,167. Marsh E. Smith, doing business as Mesco Products, Cleveland, Ohio. Filed Apr. 3, 1950.

JET O MATIC*

The term "Jet" is disclaimed.
For Automotive Accessories—Namely, Vapor Injectors for Internal Combustion Engines.
Claims use since Mar. 27, 1950.

Ser. No. 595,487. Barrett Equipment Company, St. Louis, Mo. Filed Apr. 10, 1950.

DRUM-Dokter

The word "Drum" is disclaimed.
For Metal Turning Lathes.
Claims use since Feb. 1, 1950.

Ser. No. 599,880. Link-Belt Speeder Corporation, Cedar Rapids, Iowa. Filed June 28, 1950.

Speed-o-Matic

The word "Speed" is disclaimed.
For Variable Pressure Hydraulic Systems for Controlling the Operating Functions of Machines, Such as Cranes, Shovels, Draglines, or the Like, Each System Including Such Elements as a Source of Supply of Fluid, a Pump, an Accumulator, a Plurality of Fluid Motors, a Piping System, and Fluid Flow Controlling Valves.
Claims use since May 3, 1950.

Ser. No. 603,897. Service Supply Corporation, Philadelphia, Pa. Filed Sept. 22, 1950.

LODOVER

For Tractor Shovel.
Claims use since Aug. 15, 1950.

Ser. No. 604,207. Marshall and Williams Corporation, Providence, R. I. Filed Sept. 29, 1950.

M & W

The drawing is lined for the colors red and gray.
For Textile Machinery—Namely, Tentering Frames, Tentering Clips, Tentering Chains, Pin Clips and Pin Links for Tentering Frames, Driving Mechanisms for Tentering Frames, Batchers, Winders, Plaiters, Guiders and Over-Feeding Mechanism for Tentering Frames.
Claims use since April 1950.

Ser. No. 605,203. Clarence B. Dowling, doing business under the name and style of Cascade Saw & Tool, Chehalis, Wash. Filed Oct. 20, 1950.

Cascade SAW & TOOL

The words "Saw & Tool" and the representation of the goods are disclaimed. The drawing is lined for shading only.
For Saws and Knives for Use in Wood Cutting and as Parts of Wood Cutting Machinery.
Claims use since Nov. 15, 1949.

Ser. No. 606,047. Pilana, Továrna na Pily a Nástroje Dřevoobráběcí, Národní Podnik, also named Pilana, Factory for Saws and Woodworking Tools, National Corporation, Hulin, Czechoslovakia. Filed Nov. 7, 1950.

Applicant claims ownership of Czechoslovakian Registration No. 11.134/Olomouc, dated Nov. 18, 1949.
For Hand Saws; Sawing Machines; Sawmills; Saw Blades; Saw Files; Circular Saws; Band Saws; Jig Saws; Felling Saws; Hacksaws; Crosscut Saws; Hatchets; Axes; Hammers; Files; Scrapers for Wood and Metal; Graters; Reamers; Gimlets; Wimbles; Augers; Vises; Snips for Cutting Sheet Metal; Pliers; Pincers; Tongs; Nippers; Hand- and Power-Operated Bench Grinders; Chisels; Files; Planes; Spokeshaves; Drills; Planer Knives; Crankpin Grinding Machines; Cam Grinding Machines; Multiwheel Grinding Machines; Punch Presses; Automatic Punching Machines; Power Operated Shears; Milling Machines; Gear Shaping Machines; Planing Machines; Drilling Machines; Lathes; Jointing and Dowelling Machines; Sanding Machines; Veneer Cutting Machines; Veneer Presses; Veneer Gluing Machines; Bending Machines for Wood, Bar-Stock, Tubes, and Pipes.

Ser. No. 606,048. Pilana, Továrna na Pily a Nástroje Dřevoobráběcí, Národní Podnik, also named Pilana, Factory for Saws and Woodworking Tools, National Corporation, Hulin, Czechoslovakia. Filed Nov. 7, 1950.

PILANA

Applicant claims ownership of Czechoslovakian Registration No. 10.334/Olomouc, dated Dec. 13, 1947.
For Hand Saws; Sawing Machines; Sawmills; Saw Blades; Saw Files; Circular Saws; Band Saws; Jig Saws; Felling Saws; Hacksaws; Crosscut Saws; Hatchets; Axes; Hammers; Files; Scrapers for Wood and Metal; Graters; Reamers; Gimlets; Wimbles; Augers; Vises; Snips for Cutting Sheet Metal; Pliers; Pincers; Tongs; Nippers; Hand- and Power-Operated Bench Grinders; Chisels; Files; Planes; Spokeshaves; Drills; Planer Knives; Crankpin Grinding Machines; Cam Grinding Machines; Multiwheel Grinding Machines; Punch Presses; Automatic Punching Machines; Power Operated Shears; Milling Machines; Gear Shaping Machines; Planing Machines; Drilling Machines; Lathes; Jointing and Dowelling Machines; Sanding Machines; Veneer Cutting Machines; Veneer Presses; Veneer Gluing Machines; Bending Machines for Wood, Bar-Stock, Tubes, and Pipes.

Ser. No. 607,016. Goodman Manufacturing Company, Chicago, Ill. Filed Nov. 28, 1950.

"YO-YO"

For Endless Chain and Belt Type Discharge Conveyors.
Claims use since July 21, 1950.

Ser. No. 609,666. Edwin Rothchild, doing business under the name and style of Fulton Tool Company, Brooklyn, N. Y. Filed Feb. 5, 1951. (Sec. 2f.)

FERRO-CUT

For Steel Hand Files and Rasps.
Claims use since Oct. 3, 1941.

Ser. No. 612,495. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Apr. 11, 1951.

CARSET

The representation of the cutting head is disclaimed. The drawing is lined for red and gray.
For Cutting Heads for Drill Steel.
Claims use since September 1948.

Ser. No. 612,496. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Apr. 11, 1951.

Jackbits

The drawing is lined to indicate yellow. Applicant claims ownership of Registration No. 304,500.
For Cutting Head Drill Steels.
Claims use since Jan. 19, 1933.

Ser. No. 612,558. The Pyle-National Company, Chicago, Ill. Filed Apr. 12, 1951. (Sec. 2f.)

PYLE

For Steam Turbines and Parts Thereof.
Claims use since Feb. 1, 1916.

Ser. No. 616,540. Beaumont Birch Company, Philadelphia, Pa. Filed July 16, 1951.

TRAC PULL

The word "Pull" is disclaimed.
For Traction Wheels for Conveyor Chains.
Claims use since October 1950.

Ser. No. 617,648. The Bristol Aeroplane Company Limited, Bristol, England. Filed Aug. 14, 1951.

OLYMPUS

Applicant claims ownership of British Registrations Nos. 676,265 and 676,266, dated Jan. 19, 1949.
For Internal Combustion Engines and Gas Turbines.

Ser. No. 617,833. A. D. Appleby, doing business as A. D. Appleby Industries, Odessa, Tex. Filed Aug. 18, 1951.

Appleby

The mark is a facsimile signature of the applicant.
For Rock Bits and Parts Thereof.
Claims use since June 10, 1944.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 611,499. Automatic Washer Company, Newton, Iowa. Filed Mar. 19, 1951.

LaundryQueen

The word "Laundry" is disclaimed. Applicant claims ownership of Registration No. 115,328.
For Domestic Laundry Machines.
Claims use since Dec. 1, 1912, as to the mark "Laundry Queen," and since February 1951 as to the mark shown in its present form.

Ser. No. 616,320. J & L Steel Barrel Company, New York, N. Y. Filed July 11, 1951.

J&L WARE

The word "Ware" is disclaimed.
For Portable Wash Tubs Made of Sheet Metal.
Claims use since Mar. 1, 1950.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 600,296. Marion Electrical Instrument Company, Manchester, New Hampshire. Filed July 6, 1950.



The drawing is lined for the color red.
For Electrical Measuring Instruments—Namely, Ammeters, Ohmeters, and Voltmeters.
Claims use since Jan. 15, 1950.

Ser. No. 605,050. Pneumatic Scale Corporation, Limited, Quincy, Mass. Filed Oct. 17, 1950. (Sec. 2f.)

PNEUMATIC

Applicant claims ownership of Registration No. 161,590.
For Weighing Machines.
Claims use since Jan. 1, 1904.

Ser. No. 608,586. American Machine and Metals, Inc., New York, N. Y., and Sellersville, Pa. Filed Jan. 10, 1951.

Pneumatran

For Apparatus for Remote Indication of Temperature or Pressure.
Claims use since Sept. 8, 1950.

Ser. No. 610,755. Mueller-Welt Contact Lenses, Inc., Chicago, Ill. Filed Mar. 2, 1951.

MUELLER WELT

For Contact Lenses.
Claims use since 1925.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 566,943. Kiwanis International, Chicago, Ill., assignee of Key Club International. Filed Oct. 13, 1948.



Applicant claims ownership of Registration No. 285,049.
For Jewelry, for Personal Wear Not Including Watches—Namely, Finger Rings, Fraternity Pins, Watch Chains, Bar Pins, Scarf Pins, Necktie Pins, Lapel Pins, Charm Keys, and the Following Made in the Whole of, or in Part of, or Plated With Precious Metal: Necktie Clasps, Key Chains, Bill Clips, Belt Buckles, Identification Tags, and Cuff Links.
Claims use since May 7, 1925.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 607,459. D. W. Swindle, doing business as D. W. Swindle and Sons Company, Nashville, Tenn. Filed Dec. 8, 1950.



For Household Brooms.
Claims use since Nov. 1, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 540,196. William E. Moore, Oakland, Calif. Filed Nov. 5, 1947. (Sec. 2f.)

SUPER-ICE

For Shipping Carton or Box Containing a Special Refrigerant, Said Special Refrigerant Being Made Up of a Sawdust Block Saturated With Brine and Then Frosen.
Claims use since April 1939.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 571,519. Dunbar Furniture Manufacturing Company, Berne, Ind. Filed Jan. 3, 1949.

ADJUSTOLEG

The word "Leg" is disclaimed.
For Wood Case Pieces of Furniture, Specifically Tables and Seating Pieces.
Claims use since July 1948.

Ser. No. 582,328. Tri-Boro Manufacturing Co., Corona, N. Y. Filed July 21, 1949.

GENIAL HOST

For Portable Bars Not Equipped With Refrigeration.
Claims use since Oct. 10, 1947.

Ser. No. 598,939. Louis Weintraub, doing business under the name of Miller and Weintraub, New York, N. Y. Filed June 10, 1950.

STOREMASTERS

For Equipment and Fixtures for Stores—Namely, Show Cases, Display Counters, Tables, and Racks.
Claims use since May 10, 1950.

Ser. No. 600,044. The Globe-Wernicke Co., Norwood, Cincinnati, Ohio. Filed June 30, 1950.

Adjusto

For Desk Trays.
Claims use since June 1950.

Ser. No. 608,258. Spiegel, Inc., Chicago, Ill. Filed Dec. 30, 1950.

Start Right House

The word "House" is disclaimed.
For Household Furniture—Namely, Living Room Furniture, Stuffed and Otherwise—Namely, Living Room Suites, Sofas, Chairs, Tables, Bookcases, Settees, Benches, Secretaries, and Desks; Bedroom Furniture—Namely, Beds, Bedroom Chairs, Bedroom Tables, Bureaus, Chiffoniers, Chests, Dressing Tables, and Night Stands; Occasional Furniture—Namely, Chairs and Tables; Dining Room and Dinette Furniture—Namely, Dining Room and Dinette Suites, Tables, Chairs, Buffets, Serving Tables, Sideboards, and Cabinets.
Claims use since Oct. 13, 1949.

Ser. No. 613,387. Vogel-Peterson Co., Chicago, Ill. Filed May 1, 1951.

Checkerette

Applicant claims ownership of Registration No. 381,123.
For Checkroom or Wardrobe Equipment—Namely, Hat and Coat Racks.
Claims use since January 1949.

Ser. No. 617,211. Restonic Corporation, Chicago, Ill. Filed Aug. 1, 1951.

ORTHOTONIC

For Mattresses and Box Springs.
Claims use since June 18, 1951.

Ser. No. 617,212. Rose-Derry Company, Newton, Mass. Filed Aug. 1, 1951. (Sec. 2f.)

Firmbak

Applicant claims ownership of Registration No. 420,332.
For High Chair Pads and Mattresses.
Claims use since Jan. 4, 1945.

Ser. No. 617,581. The Englander Company, Inc., Chicago, Ill. Filed Aug. 11, 1951.

ortho-body

For Mattresses and Box Springs.
Claims use since Mar. 1, 1951.

Ser. No. 617,673. Ostermoor & Company, Inc., Bridgeport, Conn. Filed Aug. 14, 1951.

OSTERPEDIC

Applicant claims ownership of Registrations Nos. 117,909 and 363,262.
For Mattresses.
Claims use since Aug. 2, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 619,127. Appliance Manufacturing Company, Alliance, Ohio. Filed Sept. 22, 1951.



Applicant claims ownership of Registration No. 422,630.
For Air Dryers (Dehumidifiers).
Claims use since Aug. 17, 1951.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 592,041. Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Filed Feb. 6, 1950. (Sec. 2f—Additional evidence.)

SUPERGRIP

For Gasoline Hose, Distillate Hose, Tank Wagon Hose, Grease Hose, Hydraulic Brake Hose, Air Hose, Water Hose, Steam Hose, Suction Hose, Oil Hose, Transmission Belt, and Conveyor Belt.
Claims use since Mar. 5, 1938.

Ser. No. 592,065. The Armstrong Rubber Company, West Haven, Conn. Filed Feb. 7, 1950.

RHINO-FLEX

The word "Flex" is disclaimed.
For Pneumatic Tire Casings.
Claims use since July 13, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 572,474. American Greeting Publishers, Inc., Cleveland, Ohio. Filed Jan. 21, 1949.

Snowtone

For Paper—Namely, Paper for Use for Greeting Cards.
Claims use since Jan. 12, 1949.

Ser. No. 586,187. Phoenix Products Company, Milwaukee, Wis. Filed Oct. 12, 1949.

PHOENIX

For Articles Made of Paper or Paper Board for Protecting and Holding Clothing and Used in Laundry and Drycleaning Establishments—Namely, Shirt Wrappers With a Cardboard Backing, Shirt Bands, Shirt Wrappers, Collar Protectors, Covers for the Bar of Wire Coat Hangers, Shoulder Garment Protectors, Tie Supports and Protective Covers, and Wire Garment Hanger Covers.
Claims use since 1892.

Ser. No. 589,468. Oxford Filing Supply Co., Inc., Garden City, N. Y. Filed Dec. 16, 1949. (Sec. 2f.)

ROL-LABELS

The word "Labels" is disclaimed. Applicant claims ownership of Registration No. 277, 618.
For Blank and Partially Printed Gummed Labels.
Claims use since Aug. 2, 1928.

Ser. No. 590,060. American Stores Company, Philadelphia, Pa. Filed Dec. 29, 1949.



The representation of the figure of a woman is fanciful.
For Facial Tissue, Household Paper Towels, and Bathroom Tissue.
Claims use since July 1938.

Ser. No. 594,952. Commercial Controls Corporation, Rochester, N. Y. Filed Mar. 31, 1950.

JUSTOWRITER

For Perforated Paper Tapes and Copy Paper for Automatic Composing Machines, Typewriters, and Letter Writers.
Claims use since Jan. 23, 1950.

Ser. No. 595,726. Maurice H. Lamar, Stephenville, Tex. Filed Apr. 14, 1950.

REF-O-LOG

The word "Log" is disclaimed.
For Partially Printed Reference Charts.
Claims use since Nov. 8, 1949.

Ser. No. 595,980. Profilm Company, Inc., New York, N. Y. Filed Apr. 19, 1950.

"PROFILM"

Applicant claims ownership of Registration No. 270,581.
For Stencil Sheets Adapted for Use on Silk Screens for Printing of Designs.
Claims use since July 6, 1929.

Ser. No. 599,074. Atlantic Paper Company, Philadelphia, Pa. Filed June 14, 1950.

SYLVANIA ENAMEL

The word "Enamel" is disclaimed.
For Starch Coated Book Paper.
Claims use since Mar. 31, 1950.

Ser. No. 599,440. S. H. Kress and Company, New York, N. Y. Filed June 20, 1950. (Sec. 2f.)



Applicant claims ownership of Registration No. 278,587.
For Composition Books, Notebooks, and Loose-Leaf Binders.
Claims use since Feb. 4, 1935 as to the form shown; and since July 1924 in a different form.

Ser. No. 606,718. Narragansett Coated Paper Corporation, Pawtucket, R. I. Filed Nov. 21, 1950.

CEL-TEC

For Coated Paper and Embossed Paper.
Claims use since Aug. 1, 1950.

Ser. No. 607,183. Nobema Products Corporation, New York, N. Y. Filed Dec. 1, 1950.



For Tracing Paper and Cloth, and Drawing Paper.
Claims use since September 1923.

Ser. No. 611,584. Rockmont Envelope Company, Denver, Colo. Filed Mar. 20, 1951.

Collectelopes

For Mailing Envelopes.
Claims use since 1937.

Ser. No. 612,235. American Bottlers of Carbonated Beverages, Washington, D. C. Filed Apr. 5, 1951. (Sec. 2f.)

AMERICAN BOTTLERS -OF- CARBONATED BEVERAGES

For Partially Printed Forms—Namely, Accounting and Financial Report Forms, Plant Operating Report Forms, Testing Report Forms, and Personnel Analysis Forms, Usable by Bottled Soft Drink Manufacturers, and Sold as Such.
Claims use since 1919.

Ser. No. 615,068. Isgo Wall Paper Corporation, Chicago, Ill. Filed June 12, 1951.



The word "Line" is disclaimed.
For Wall Paper.
Claims use since May 16, 1951.

Ser. No. 615,632. Curtis 1000, Incorporated, St. Paul, Minn., and Hartford, Conn. Filed June 25, 1951.

POSTA-CHECKS

The word "Checks" is disclaimed.
For Correspondence Envelopes of Paper Having a Check Attached Thereto.
Claims use since May 29, 1951.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 588,199. Book-of-the-Month Club, Inc., New York, N. Y. Filed Nov. 23, 1949. (Sec. 2f—Additional evidence.)

BOOK-DIVIDEND

For Fictional and Nonfictional Books.
Claims use since 1932.

Ser. No. 597,224. Paramount Paper Products Co., Omaha, Nebr. Filed May 10, 1950.



The lining is for shading only.
For Printed Labels.
Claims use since Feb. 9, 1950.

Ser. No. 602,031. The International Association of Lions Clubs, Chicago, Ill. Filed Aug. 10, 1950.

The LION

Applicant claims ownership of Registrations Nos. 274,148 and 384,746.
For Periodicals.
Claims use since Aug. 1, 1950.

Ser. No. 605,806. NEA Service, Inc., Cleveland, Ohio. Filed Nov. 2, 1950.



The trade-mark is the name of a fictitious character.
For Comic Drawings Published in Daily and Sunday Newspapers.
Claims use since Oct. 1, 1950.

Ser. No. 614,785. Publisher's Development Corporation, Chicago, Ill. Filed June 5, 1951.

Modern MAN

For Periodicals.
Claims use since May 15, 1951.

Ser. No. 616,448. The Pulitzer Publishing Company, St. Louis, Mo. Filed July 13, 1951.

Martha Carr's —OPINION—

The name "Martha Carr" is fictitious. Applicant claims ownership of Registration No. 285,768.
For Section of a Newspaper.
Claims use since June 1, 1951.

Ser. No. 616,544. The Borrowed Timers, San Diego, Calif. Filed July 16, 1951. (Sec. 2f.)

Prayer Reminder

For Printed Religious Cards.
Claims use since March 1941.

Ser. No. 617,154. The Meyercord Co., Chicago, Ill. Filed July 31, 1951.

SANS-ARB

Applicant claims ownership of Registrations Nos. 281,401, 359,544, and others.
For Decalcomanias.
Claims use since April 1929.

CLASS 39
CLOTHING

Ser. No. 513,043. Gantner & Mattern Company, San Francisco, Calif. Original filed, act of 1905, Nov. 22, 1946; amended to application under act of 1946, Principal Register, Dec. 10, 1951. (Sec. 2f.)

GloSuit

The word "Suit" is disclaimed.
For Men's, Women's, and Children's Swimsuits, and Women's Playsuits.
Claims use since Oct. 28, 1946.

Ser. No. 573,385. Stix, Baer & Fuller Company, St. Louis, Mo. Filed Feb. 5, 1949.

Tweener Shop

The word "Shop" is disclaimed.
For Women's and Girls' Dresses, Suits, Coats, Blouses, Skirts, Sweaters, Slacks, T Shirts, Outer Shorts, Pedal Pushers, Jackets, Beach Robes, Bath Robes, Lounging Robes, Hats, Socks, Stockings, Underwear, Pajamas, and Night Shirts.
Claims use since Mar. 15, 1948.

Ser. No. 597,534. Mavest Inc., New York, N. Y. Filed May 16, 1950.

SHETLOOM

For Sport Jackets, Suits and Topcoats for Men, Women, and Children.
Claims use since Apr. 26, 1950.

Ser. No. 597,828. Hat Corporation of America, Norwalk, Conn. Filed May 20, 1950. (Sec. 2f as to "Cavanagh.")



The word "Hats" and the expression "Park Avenue at 47th Street, New York" are disclaimed. The English translation of the words "A Posse Ad Esse" is "From possibility to actuality." Applicant claims ownership of Registrations Nos. 267,193, 270,725, 505,279, and 546,053.
For Men's Hats, Caps, Neckties, and Overcoats; Women's Hats.
Claims use since Dec. 1, 1928 on the mark as shown; and since February 1913 on the word "Cavanagh."

Ser. No. 597,890. May Hosiery Mills, Nashville, Tenn. Filed May 22, 1950.



For Men's, Women's, and Children's Footwear Comprising Soles Having Socks Attached Thereto.
Claims use since Feb. 9, 1950.

Ser. No. 598,109. Saul Bros., Atlanta, Ga. Filed May 25, 1950.



The notation "Rainwear" is disclaimed.
For Articles of Rainwear—Namely, Raincoats for Men, Women, and Children.
Claims use since Mar. 31, 1950.

Ser. No. 600,353. Royal Robes, Inc., New York, N. Y. Filed July 7, 1950.



The word "Robes" and the representation of a robe are disclaimed. Applicant claims ownership of Registrations Nos. 377,453 and 536,180.
For Robes for Men and Boys.
Claims use since March 1945.

Ser. No. 601,135. Bercktowne of Hollywood, Los Angeles, Calif. Filed July 24, 1950.



The words "Da Vince" and "Creation" are disclaimed.
For Men's Neckties, Sportshirts, Jackets, and Shorts.
Claims use since July 15, 1949.

Ser. No. 601,350. Pauline L. Edwards, Upper Darby, Pa. Filed July 28, 1950.

Sportbeau

For Men's and Women's Hats.
Claims use since May 30, 1950.

Ser. No. 601,818. Conn Knitting Mills, Inc., Oswego, N. Y. Filed Aug. 7, 1940. (Sec. 2f.)

CONN KNIT

The word "Knit" is disclaimed.
For Knitted Outer Shirts and Undershirts for Men, Women, Boys and Girls.
Claims use since July 1945.

Ser. No. 603,999. Clyde R. Houser, East Mauch Chunk, Pa. Filed Sept. 26, 1950.



The representation of a stocking is disclaimed.
For Ladies' Hosiery.
Claims use since May 1, 1950.

Ser. No. 605,738. Grayson-Robinson Stores, Inc., New York, N. Y. Filed Nov. 1, 1950.

Lifetime

For Ladies' Slips Made of Rayon or Rayon and Nylon.
Claims use since Mar. 1, 1950.

Ser. No. 606,267. Caribbean Clothing Corporation, Mayaguez, Puerto Rico. Filed Nov. 13, 1950.

Caribe

For Men's Suits, Sports and Leisure Jackets, Slacks and Walking Shorts; Women's Walking Shorts, Slacks, and Skirts.
Claims use since June 6, 1950.

Ser. No. 607,867. Publix Shirt Corporation, New York, N. Y. Filed Dec. 19, 1950. (Sec. 2f.)

Harley
EVERFIRM

Applicant claims ownership of Registration No. 421,889.
For Negligee Shirts for Men and Young Men and Sport Shirts for Men and Young Men.
Claims use since Nov. 26, 1940.

Ser. No. 608,219. Publix Shirt Corporation, New York, N. Y. Filed Dec. 29, 1950. (Sec. 2f.)

EVERFIRM

Applicant claims ownership of Registration No. 383,285.
For Negligee, Dress, and Sport Shirts for Men and Young Men.
Claims use since July 1935.

Ser. No. 608,301. Chipman Knitting Mills, Easton, Pa. Filed Jan. 3, 1951. (Sec. 2f.)

GARTER GUARD

For Hosiery for Women.
Claims use since Aug. 13, 1926.

Ser. No. 609,389. Art Cap Co. Inc., New York, N. Y. Filed Jan. 30, 1951.



The word "Caps" is disclaimed.
For Military Caps for Men and Women.
Claims use since Sept. 2, 1939.

Ser. No. 609,428. Wee Pants, Inc., New York, N. Y. Filed Jan. 30, 1951.

NICE 'N-DRY

The word "Dry" is disclaimed.
For Baby Panties, Baby Bloomers, Creepers.
Claims use since Jan. 2, 1951.

Ser. No. 609,617. Whitewater Raincoat Company, Whitewater, Wis. Filed Feb. 3, 1951.



The word "Shower" is disclaimed.
For Men's and Women's Raincoats, and Sportswear—Namely, Men's Jackets, Trousers, and Women's Skirts.
Claims use since June 26, 1950.

Ser. No. 612,765. Stern, Merritt Co. Inc., New York, N. Y. Filed Apr. 17, 1951. (Sec. 2f.)

AMERICAN
Spitalsfields

Applicant claims ownership of Registration No. 390,547.
For Neckties.
Claims use since Sept. 23, 1941.

Ser. No. 612,767. Stern, Merritt Co. Inc., New York, N. Y. Filed Apr. 17, 1951. (Sec. 2f.)

TOULON

Applicant claims ownership of Registration No. 388,160.
For Neckties.
Claims use since June 10, 1941.

Ser. No. 612,768. Stern, Merritt Co. Inc., New York, N. Y. Filed Apr. 17, 1951. (Sec. 2f.)

TRAFALGAR SQUARES

Applicant claims ownership of Registration No. 392,885.
For Neckties.
Claims use since Jan. 13, 1942.

Ser. No. 612,769. Stern, Merritt Co. Inc., New York, N. Y. Filed Apr. 17, 1951. (Sec. 2f.)

TUSCANY

Applicant claims ownership of Registration No. 388,161.
For Neckties.
Claims use since June 10, 1941.

Ser. No. 612,770. Stern, Merritt Co. Inc., New York, N. Y. Filed Apr. 17, 1951. (Sec. 2f.)

WHISTON

Applicant claims ownership of Registration No. 388,163.
For Neckties.
Claims use since June 10, 1941.

Ser. No. 612,783. Chester Barrie, Ltd., New York, N. Y. Filed Apr. 18, 1951.

GEORGIAN
Covert

The word "Covert" is disclaimed.
For Men's and Young Men's Suits, Overcoats, Tuxedos, Dress Suits, Morning Coats, Sport Suits, Top Coats, Slacks; Women's and Misses' Suits and Coats.
Claims use since Aug. 1, 1949.

Ser. No. 614,200. I. J. Fox, Inc., New York, N. Y. Filed May 22, 1951. (Sec. 2f.)

I. J. Fox Fifth Avenue

The words "Fifth Avenue" are disclaimed.
For Articles of Clothing Made of Fur—Namely, Fur Coats, Wraps, Muffs, Neckpieces, Collars, and Cuffs.
Claims use since 1925.

Ser. No. 614,415. Warren Knitting Mills, Inc., New York, N. Y. Filed May 26, 1951.

BACTERIOSEPTIC

For Hosiery Impregnated To Make Them Odor and Perspiration Resistant.
Claims use since May 22, 1951.

Ser. No. 614,558. Lubin-Weeker Co., Inc., New York, N. Y. Filed May 31, 1951.

The OVER NIGHTER

For Men's and Boys' Pajamas.
Claims use since Nov. 6, 1950.

Ser. No. 614,701. Lexington Manufacturing Company, Lexington, N. C. Filed June 4, 1951.

LEXCO

For Men's Outer Shirts.
Claims use since Jan. 5, 1951.

Ser. No. 615,229. B. Kuppenheimer and Co. Inc., Chicago, Ill. Filed June 15, 1951.

MacCRAG

For Men's and Boys' Ready-To-Wear Coats, Vests, Trousers, and Overcoats.
Claims use since Mar. 28, 1947.

Ser. No. 615,303. Gamble-Skogmo, Inc., Minneapolis, Minn. Filed June 16, 1951.

Hiawatha

"Hiawatha" is the name of the celebrated Indian chief and hero of Longfellow's poem "Hiawatha."
For Hunting Coats, Hunting Vests, Hunting Pants, Stadium Coats, Mackinaws, Jackets, and Surcoats.
Claims use since August 1946.

Ser. No. 615,853. A. Sagner's Son, Baltimore, Md. Filed June 28, 1951.

LADY NORTHCOOL

Applicant claims ownership of Registration No. 407,981.
For Men's, Women's, and Misses' Coats, Suits, and Bathrobes; Men's Trousers, Shirts, and Neckties.
Claims use since Nov. 8, 1943.

Ser. No. 615,854. A. Sagner's Son, Baltimore, Md. Filed June 28, 1951.

NORTHCOOL

Applicant claims ownership of Registration No. 407,981.
For Men's and Women's Coats and Suits; Men's Trousers, Dress and Work Shirts, Neckties, and Bathrobes.
Claims use since Nov. 8, 1943.

Ser. No. 615,855. A. Sagner's Son, Baltimore, Md. Filed June 28, 1951.

POLAIRSPUN

Applicant claims ownership of Registration No. 334,585.
For Men's and Women's Coats and Suits; Men's Trousers, Dress and Work Shirts, Neckties, and Bathrobes.
Claims use since Oct. 1, 1935.

Ser. No. 615,974. Tigellia Cisco Digiovanna, Brooklyn, N. Y. Filed July 2, 1951.

The Aqua Crown

For Ladies' Bathing Caps.
Claims use since June 26, 1951.

Ser. No. 616,193. Wickbury, Ltd., New York, N. Y. Filed July 6, 1951.

the Triple Play

For Men's Suits, Jackets, and Slacks.
Claims use since June 22, 1951.

Ser. No. 617,547. Louis Meyers & Son, Inc., New York, N. Y. Filed Aug. 10, 1951. (Sec. 2f.)

Moka Swaded

Applicant claims ownership of Registration No. 290,993.
For Fabric and Leather Gloves.
Claims use since Nov. 15, 1930.

Ser. No. 618,056. Shreve & Adams, Inc., New York, N. Y. Filed Aug. 24, 1951.

POPPY

Applicant claims ownership of Registrations Nos. 135,945 and 512,985.
For Ladies' Hosiery; Misses' Hosiery; Girls' Hosiery; and Boys' Hosiery.
Claims use since Aug. 6, 1951.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 607,454. Smith Victory Corporation, Buffalo, N. Y. Filed Dec. 8, 1950.

Bobbie Smith

The name is fanciful. Applicant claims ownership of Registration No. 223,548.
For Bobbie Pins and Hair Pins.
Claims use since August 1950.

Ser. No. 615,103. American Hard Rubber Company, Hempstead and New York, N. Y. Filed June 13, 1951.

ACE EXPERT

Applicant claims ownership of Registrations Nos. 131,017, 172,348, 404,919, 537,553, and 202,974.
For Hard Rubber Combs for Dressing, Ornamenting, and Cleaning the Hair.
Claims use since May 1, 1925.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 595,077. Knoll Associates, Inc., New York, N. Y. Filed Apr. 1, 1950. (Sec. 2f—Additional evidence.)

KNOLL

For Curtain and Upholstery Fabrics of Cotton, Wool, Silk, and Synthetic Fibers, and of Plastic Yarn.
Claims use since Nov. 23, 1949.

Ser. No. 606,135. Burlington Mills Corporation, Greensboro, N. C. Filed Nov. 9, 1950.

Burl Curl

The word "Curl" is disclaimed.
For Textile Ribbons of Cotton and Synthetic Fibers.
Claims use since Aug. 29, 1950.

Ser. No. 607,040. Oregon Worsted Company, Portland, Oreg. Filed Nov. 28, 1950.

Qualo Cord

The word "Cord" is disclaimed.
For Woolen Fabrics Sold by the Bolt.
Claims use since Sept. 21, 1950.

Ser. No. 611,189. Murray Hill Restaurant, Inc., New York, N. Y. Filed Mar. 12, 1951.



Jack & Charlie's "21"

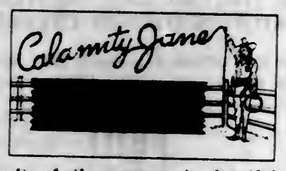
For Tablecloths and Napkins.
Claims use since Jan. 2, 1946.

Ser. No. 613,090. J. P. Stevens & Co. Inc., New York, N. Y. Filed Apr. 24, 1951.

ELECTRIC

For Cotton Flannels for Garments and Diapers.
Claims use since 1926.

Ser. No. 617,855. Donald Barry Productions, Inc., Los Angeles, Calif. Filed Aug. 20, 1951.



The portrait of the woman is fanciful. "Calamity Jane" is the popular name of Martha Jane Canary Burke, 1852–1903.
For Cotton Print Yard Goods.
Claims use since July 5, 1951.

Ser. No. 619,917. Milton C. Blum, Inc., New York, N. Y. Filed Oct. 12, 1951.

Twistalene

For Cotton Piece Goods.
Claims use since Sept. 18, 1951.

Ser. No. 620,032. Forstmann Woolen Co., Passaic, N. J. Filed Oct. 16, 1951.

BARODEEN

For Woolen Piece Goods.
Claims use since Oct. 10, 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 538,859. Becton Dickinson and Company, Rutherford, N. J. Filed Oct. 24, 1947. (Sec. 2f.)

MEDICAL CENTER

For Syringes and Needles Made for Hypodermic and Other Medical and Surgical Uses.
Applicant claims ownership of Registration No. 306,111.
Claims use since October 1930.

Ser. No. 615,686. Edmund F. Buryan, Scarsdale, N. Y. Filed June 26, 1951.

A N O P A K

For Surgical Bandages, Particularly Post-Operative Surgical Bandages for Use in the Rectum.
Claims use since June 1948.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 608,408. Cherry Smash Company, Inc., Arlington, Va. Filed Jan. 5, 1951.

CHESCO

For Maltless Soft Drinks and Syrups Used in Making the Same.
Claims use since Dec. 12, 1950.

Ser. No. 614,496. Dr. Pepper Company, Dallas, Tex. Filed May 29, 1951. (Sec. 2f.)

Dr Pepper

The name "Dr. Pepper" is fanciful. Applicant claims ownership of Registrations Nos. 524,679, 524,680, and others.
For Non-Alcoholic, Maltless, Beverages Sold as Soft Drinks, and Syrups for Making Same.
Claims use since June 1, 1950 as shown; and since January 1895 in a different form.

Ser. No. 615,462. The Perfection Company, Ltd., Waco, Tex. Filed June 20, 1951.

SUNTANG

Applicant claims ownership of Registrations Nos. 375,708 and 535,203.
For Concentrates Used in the Preparation of Non-Alcoholic Maltless Soft Drinks.
Claims use since June 24, 1939.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 509,935. General Mills, Inc., Minneapolis, Minn., and Wilmington, Del. Original filed, act of 1905, Sept. 28, 1946; amended to application under act of 1946, Principal Register, Mar. 3, 1948. (Sec. 2f as to "Washburn's.")



The word "Mills" is disclaimed. The central disk of the trade-mark is lined for yellow. Applicant claims ownership of Registrations Nos. 13,253, 61,763, 61,788, and others.
For Wheat Flour.
Claims use since July 23, 1946 as to the mark shown; and since 1879 as to "Washburn's."

Ser. No. 517,069. Loft Candy Corporation, New York and Long Island City, N. Y. Original filed, act of 1905, Feb. 6, 1947; amended to application under act of 1946, Principal Register, Sept. 1, 1948. (Sec. 2f as to "Loft.")

LOFT

Applicant claims ownership of Registrations Nos. 39,872, 113,399, and others.
For Candy.
Claims use since 1895 as to "Loft"; and since October 1944 as to the mark presented.

Ser. No. 528,564. Flag Pet Food Corp., New York, N. Y. Filed July 14, 1947.



The words "Pussy Cat" are disclaimed.
For Canned Cat Food.
Claims use since 1941.

Ser. No. 530,229. Midwest Biscuit Company, Inc., Burlington, Iowa. Filed Aug. 1, 1947. (Sec. 2f.)

MIDWEST

For Popped Corn, Ice Cream Cones, Potato Chips, Noodles, Macaroni, Spaghetti, Puffed Wheat, Puffed Rice, Cookies, Candied Confections Such as Cookies or Cakes Having a Sweetened Filling and a Coating Therefor, Cracker Meal, Crackers, Cakes.
Claims use since December 1934.

Ser. No. 531,905. Forst Packing Company, Inc., Kingston, N. Y. Filed Aug. 20, 1947.

Formost

Applicant claims ownership of Registrations Nos. 211,928 and 307,095.
For Hams, Picnic Hams, Bacon, Tenderoils Consisting of Pork Shoulder Butt, Frankfurts, Bologna, and Lard Shortening.
Claims use since 1923.

Ser. No. 533,229. McPhillips Packing Corporation, Bayou La Batre, Ala. Filed Aug. 27, 1947. (Sec. 2f.)

DUNBAR

Applicant claims ownership of Registrations Nos. 241,350, 241,615, 248,635, and 319,165.
For Canned Crab Meat, Canned Shrimp, Canned Oysters, Canned Prawns.
Claims use since 1878.

Ser. No. 545,029. Olive Heights Citrus Association, Olive, Calif. Filed Dec. 20, 1947.

TROJAN

For Fresh Citrus Fruits.
Claims use since 1915.

Ser. No. 545,204. Weyl-Zuckerman & Co., Stockton, Calif. Filed Dec. 22, 1947.

PERFEX

Applicant claims ownership of Registration No. 390,254.
For Fresh Potatoes in Their Natural State.
Claims use since Dec. 1, 1935.

Ser. No. 549,671. Sevilla Olive Packing Co., Inc., also doing business as Sevilla Olive Packing Co., Tampa, Fla. Filed Feb. 13, 1948.

Casa Loma

The English translation of "Casa Loma" is "Hill House" or "House on a Hill."
For Bottled Olives, Olive Oil, and Cherries.
Claims use since January 1941.

Ser. No. 553,804. Aubrey & Company, Louisville, Ky. Filed Apr. 5, 1948. (Sec. 2f.)



The drawing is lined for the color red. Applicant claims ownership of Registrations Nos. 264,614 and 264,615.
For Live Stock, Poultry, Rabbit Feeds, Composed Principally of Grains.
Claims use since 1907.

Ser. No. 557,746. Frosted Fruit Products, Los Angeles, Calif. Filed May 25, 1948. (Sec. 2f—Additional evidence.)

CHILL-RIPE

The word "Ripe" is disclaimed. Applicant claims ownership of Registration No. 387,432.
For Frozen Seedless Purees of Fruits and Berries, Whole Fruits and Berries, and Sliced, Diced, and Halved Fruit.
Claims use since June 1, 1942.

Ser. No. 565,552. Interstate Bakeries Corporation, Kansas City, Mo. Filed Sept. 21, 1948.

"ROUND THE CLOCK"

For Bread.
Claims use since July 12, 1948.

Ser. No. 565,783. Idaho Egg Producers, Caldwell, Idaho. Filed Sept. 24, 1948. (Sec. 2f.) COLLECTIVE MARK.



The drawing is lined for red and blue. The words "Idaho Egg Producers" and "Co-op Assn." and the map of the State of Idaho are disclaimed. Applicant claims ownership of Registration No. 371,038.

For Eggs in the Shell, Slaughtered Poultry, Feeds Containing Major Amounts of Grains and Proteins for Poultry and Livestock and Ground Oyster Shells and Limestone for Poultry.

Claims use since Jan. 1, 1938.

Ser. No. 568,297. The D. L. Clark Company, Pittsburgh, Pa. Filed Nov. 6, 1948. (Sec. 2f.)

CLARK

For Candy Bars.
Claims use since 1922.

Ser. No. 569,905. Sunny Sally Vegetable Growers, Los Angeles, Calif. Filed Dec. 3, 1948.

Sunny Sally

The depiction of the girl is fanciful.

For Packaged Fresh Vegetables—Namely, Spinach, Celery Hearts, and Mixed Vegetables for Salad.

Claims use since Mar. 15, 1939.

Ser. No. 571,817. McPherson & Richardson, Oroville, Calif. Filed Jan. 7, 1949.

SIERRA GOLD

For Olive Oil.
Claims use since Nov. 30, 1948.

Ser. No. 573,897. Salerno-Megowen Biscuit Company, Chicago, Ill. Filed Feb. 15, 1949.

PLAYTIME

For Cookies.
Claims use since Jan. 11, 1949.

Ser. No. 575,161. The Shotwell Mfg. Co., Chicago, Ill. Filed Mar. 9, 1949.



The word "Rabbit" and the exclusive right to manufacture candy in the form of a rabbit are disclaimed. The drawing is lined for red and yellow to which no claim is made.

For Chocolate Covered Marshmallow Candy.
Claims use since Jan. 20, 1937.

Ser. No. 575,162. The Shotwell Mfg. Co., Chicago, Ill. Filed Mar. 9, 1949.



The form of a rabbit and the word "Rabbit" are disclaimed. The drawing is lined for blue and yellow but color is disclaimed.

For Chocolate Covered Marshmallow Candy.
Claims use since Jan. 20, 1937.

Ser. No. 576,785. Allied Minerals, Inc., West Chelmsford, Mass. Filed Apr. 8, 1949.

ROLL-CAL

The word "Cal" is disclaimed.

For Poultry Feeding Materials Consisting of Finely Divided Calcium Carbonate.

Claims use since September 1948.

Ser. No. 577,838. B. Young & Company Limited, London, England. Filed Apr. 27, 1949.

GLACIER

Applicant claims ownership of British Registration No. 659,120, dated May 14, 1947.

For Food Gelatine in Bulk Form for Use in the Meat Packing Trade.

Ser. No. 578,607. Maryland Baking Company, Inc., Baltimore, Md. Filed May 11, 1949. (Sec. 2f—Additional evidence.)

EAT-IT-ALL

Applicant claims ownership of Registration No. 428,300.
For Edible Pastry Cups.
Claims use since Feb. 1, 1942.

Ser. No. 581,211. Purity Cheese Company, Mayville, Wis. Filed June 28, 1949.



The word "Pure" is disclaimed. Applicant claims ownership of Registrations Nos. 171,076 and 389,171.

For Cheese.
Claims use since Oct. 18, 1948.

Ser. No. 581,783. Western Condensing Company, San Francisco, Calif. Filed July 11, 1949. (Sec. 2f.)

Peebles'

Applicant claims ownership of Registration No. 349,180.

For Poultry and Live Stock Feed Additive Made From Milk, and Milk Products and Edible Products Made From Milk and Milk Products Including Dried Whey and Dried Whey Products With Whey Fermentation Solubles.

Claims use since Mar. 15, 1930.

Ser. No. 586,296. Charles J. Miller, doing business under the firm name of The Korn Popper, Lincoln, Nebr. Filed Oct. 14, 1949. (Sec. 2f—Additional evidence.)

KORN POPPER

For Salted Popped Popcorn and Unpopped Popcorn.
Claims use since July 1931.

Ser. No. 586,375. Union Trading Company Ltd., Basel, Switzerland. Filed Oct. 15, 1949.

UTC

Applicant claims ownership of Swiss Registration No. 125,494, dated May 13, 1948.

For Cereal Flour for Use in Cooking and Baking.

Claims use since Feb. 18, 1922, and since Feb. 18, 1922 in commerce between Switzerland and the United States.

Ser. No. 586,382. Union Trading Company Ltd., Basel, Switzerland. Filed Oct. 15, 1949.



Applicant claims ownership of Swiss Registration No. 126,524, dated May 13, 1948.

For Cereal Flour for Use in Cooking and Baking.

Claims use since Oct. 25, 1939, and since Oct. 25, 1939 in commerce between Switzerland and the United States.

Ser. No. 588,025. Alex Groot, doing business under the firm name Essencefabriek Alex Groot, Rotterdam, Netherlands. Filed Nov. 18, 1949.

FRUMIX

Applicant claims ownership of Dutch Registration No. 80,774, dated Mar. 22, 1944.

For Flavoring Extracts, Flavoring Oils, Flavoring Syrups, Flavoring Emulsions, and Flavoring Concentrates, All for Use as Flavors for Food Beverages.

Ser. No. 588,267. Barr Packing Company, Sanger, Calif. Filed Nov. 25, 1949.

ELBAR

For Fresh Grapes.
Claims use since Sept. 15, 1948.

Ser. No. 589,028. Fanny Lazzar, Evanston, Ill. Filed Dec. 8, 1949.

Fanny's

For Spaghetti Sauce and Chutney Dressing.
Claims use since July 22, 1946.

Ser. No. 590,351. Candy-Lane, Inc., Los Angeles, Calif. Filed Jan. 5, 1950.

Treats 'n Sweets

The word "Sweets" is disclaimed.
For Candy.
Claims use since Sept. 1, 1949.

Ser. No. 590,545. Louis D. Caracciolo, Blue Anchor, N. J., assignor to Blue Anchor Co., Inc., Blue Anchor, N. J., a corporation of New Jersey. Filed Jan. 9, 1950.

BAY VIEW

The term "Bay" is disclaimed.
For Frozen Oysters Prepared for Frying.
Claims use since Dec. 1, 1949.

Ser. No. 591,705. Western Popcorn Company, Atlantic, Iowa. Filed Jan. 30, 1950.

WESTERN GIANT

The word "Giant" is disclaimed.
For Popcorn in Its Natural State.
Claims use since Apr. 1, 1946.

Ser. No. 592,487. A. Gross & Sons, Philadelphia, Pa. Filed Feb. 15, 1950.

CAL-PI-CO

For Dill Pickles.
Claims use since Jan. 5, 1935.

Ser. No. 594,142. The Oakford Company, Peoria, Ill. Filed Mar. 17, 1950.

BLUE RIBBON

The drawing is lined for blue. The representation of the ribbon completely encircles the package. Applicant claims ownership of Registrations Nos. 21,340, 93,246, and 74,569.
For Canned Soup, Canned Fruit Juice, Canned Vegetable Juice, Salt, Pancake and Waffle Mix, Baking Chocolate, and Dried Fruits.
Claims use since 1901.

Ser. No. 595,232. Sta-Wite Corporation, Medford, Mass. Filed Apr. 4, 1950.



The words "Italo-American" is disclaimed.
For Spaghetti Gravy With Meat.
Claims use since July 30, 1948.

Ser. No. 596,196. I. Rokeach & Sons, Inc., Brooklyn, N. Y. Filed Apr. 22, 1950. (Sec. 2f as to the word "Rokeach.")

ROKEACH

Applicant claims ownership of Registrations Nos. 242,918, 243,189, and others.
For Tomato Soup, Barley and Mushroom Soup, Lima Bean Soup, Baked Beans, Borscht (Beet Soup), Tomato Sauce With Mushrooms, Prune Juice, Grape Preserves, Strawberry Preserves, Raspberry Preserves, Cherry Preserves, Honey, Pickles, Peanut Oil for Salads and Cooking, Vegetable Shortening, Matzos and Gefillte (Stuffed) Fish, Creamed Style Borscht and Creamed Style Schav (Made From Sour Leaves).
Claims use since Feb. 20, 1950 on the mark as shown and since May 1, 1924 as to the word "Rokeach."

Ser. No. 597,097. Rice Growers Association of California, Sacramento, Calif. Filed May 8, 1950.

DIABLO

The word "Diablo" is the Spanish equivalent of the English word "Devil."
For Rice.
Claims use since Jan. 5, 1935.

Ser. No. 597,483. Albers Milling Company, Los Angeles, Calif., and Portland, Oreg. Filed May 16, 1950.

WIRE GRO

For Poultry Feeds Comprised of Ground Grains, Concentrates, and Minerals.
Claims use since March 1950.

Ser. No. 598,579. Wilford M. Eberhart, doing business as Louisiana Aircraft, Baton Rouge, La. Filed June 5, 1950.



For Frozen Food Stuffs—Namely, Beef a la King, Chicken a la King, Chicken Broth, Crab a la King, Crayfish Bisque, Crayfish Gumbo, Crayfish Tails, Creole Gumbo, Lobster Newburg, Breaded Oysters, Oyster Cocktail, Oyster Stew, Sea Food Loaf, Having as Its Principal Ingredients Shrimp, Crab Meat, Onions, Celery, Peppers, Bread, Cracker Crumbs, Eggs, Pimentos and Seasoning, Shrimp a la Creole, Shrimp a la King, Beer Shrimp (i. e., Shrimp Prepared With Beer), Boiled Shrimp, Breaded Shrimp, Shrimp Cocktail, Frying Shrimp, Green Shrimp, Headless Shrimp, Hors d'Oeuvre Shrimp and Turtle Stew.
Claims use since Apr. 25, 1948.

Ser. No. 598,602. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Filed June 5, 1950.

FLEET MIX

The word "Mix" is disclaimed.
For Prepared Baking Mix for Biscuits.
Claims use since Dec. 16, 1949.

Ser. No. 599,452. Donald L. Reed and Company, Denver, Colo. Filed June 20, 1950.

Caribe SKYLAND

The drawing is lined for the color red.
For Canned Unsweetened Pineapple Juice, Heavy Syrup Crushed Pineapple, Extra Heavy Syrup Pineapple Tidbits, and Extra Heavy Syrup Sliced Pineapple.
Claims use since Apr. 20, 1950.

Ser. No. 600,221. Liston Processed Foods Inc., Toledo, Ohio. Filed July 5, 1950.

QUIXCHIX

For Cellophane or Like Wrapped Precooked Dressed Poultry.
Claims use since Apr. 27, 1950.

Ser. No. 601,977. The Capital City Products Company, Columbus, Ohio. Filed Aug. 9, 1950.

HYDRO-KOTE

The word "Kote" is disclaimed. Applicant claims ownership of Registration No. 289,596.
For Hardened Vegetable Oil for the Manufacture of Coating for Candies, Cakes, Biscuits, and Other Food Products in Cartons, Cans, and Drums.
Claims use since Mar. 1, 1931.

Ser. No. 603,157. Golden Grain Macaroni Co., San Francisco, Calif. Filed Sept. 5, 1950.

VEGE-ROODLES

For Alimentary Pastes.
Claims use since June 15, 1950.

Ser. No. 603,170. Tri-Valley Packing Association, San Francisco, Calif. Filed Sept. 5, 1950.

NATURMADE

Applicant claims ownership of Registration No. 155,942.
For Canned Fruits, Canned Fruit Juices, and Canned Vegetables.
Claims use since July 1, 1920.

Ser. No. 604,219. Pictsweet Foods, Inc., Mount Vernon, Wash. Filed Sept. 29, 1950. (Sec. 2f.)

PICTSWEET

Applicant claims ownership of Registrations Nos. 387,260, 387,261, 387,262, and 406,300.
For Frozen Fresh Fruits, Berries, Vegetables, Fish and Poultry, Frozen Fresh Orange Juice and Lemon Juice for Food Purposes, and Canned Vegetables.
Claims use since Mar. 5, 1940.

Ser. No. 604,589. Mission Valley Canning Co., Inc., San Jose, Calif. Filed Oct. 7, 1950. (Sec. 2f.)

TAHOE

Applicant claims ownership of Registration No. 361,906.
For Canned Green Beans.
Claims use since July 19, 1937.

Ser. No. 605,472. El Poche Cafe, San Gabriel, Calif. Filed Oct. 27, 1950.



For Steak Marinade or Seasoning Sauce, the Principal Ingredients of Which Are Red Chili, Garlic, Cotton Seed Oil, and Wine Vinegar.
Claims use since Dec. 10, 1947.

Ser. No. 605,768. A. F. Schwahn & Sons Co., Eau Claire, Wis. Filed Nov. 1, 1950. (Sec. 2f.)

Schwahn's

Applicant claims ownership of Registration No. 245,004.
For Pickled Fish Known as "Cut Lunch."
Claims use since 1915.

Ser. No. 606,218. The Hubinger Company, Keokuk, Iowa. Filed Nov. 10, 1950.

Bee · Sweet

The word "Sweet" is disclaimed.
For Corn Syrup for Food Purposes.
Claims use since Oct. 11, 1937.

Ser. No. 606,458. Jos. K. Dennis, Boston, Mass. Filed Nov. 16, 1950.

NOVACOD

For Salt Fish.
Claims use since June 8, 1920.

Ser. No. 607,083. David S. Isrin, doing business as Isrin-Oliver Company, New York, N. Y. Filed Nov. 29, 1950.

SPICE CLUB

The word "Spice" is disclaimed.
For Vinegar.
Claims use since Aug. 16, 1950.

Ser. No. 609,176. Griggs, Cooper & Company, St. Paul, Minn. Filed Jan. 24, 1951.



The drawing is lined for red, pink, and yellow. Applicant claims ownership of Registrations Nos. 1,850, 22,829, and others.

For Fruit Preserves, Jellies, Jam, Peanut Butter, Apple Butter, Honey, Marmalade, Mince Meat, and Olives.

Claims use since Nov. 1, 1950.

Ser. No. 610,926. James Shea, doing business as Adirondack Mountain Products Co., Lake Placid, N. Y. Filed Mar. 6, 1951. (Sec. 2f.)

LAKE PLACID
MOUNTAIN MIX

The word "Mix" is disclaimed.

For Pancake Flour, Maple Sirup, Honey, Canned Blueberries, Mincemeat, Canned Brown Bread and Canned Baked Beans.

Claims use since 1945.

Ser. No. 611,593. Aktiebolgaget Sveriges Forenade Konservfabriker, Goteborg Sweden. Filed Mar. 21, 1951.



The words "Packed By A. B. Sveriges Forenade Konservfabriker" and "Goteborg, Sweden" are disclaimed. The portrait is that of the Swedish King Gustavus II Adolphus, hero of the thirty year war, who was killed at the battle of Lutzen in 1632. Applicant claims ownership of United States Registration No. 305,254.

For Canned Sardines.

Claims use since 1938; and use in commerce between Sweden and the United States since 1939.

Ser. No. 612,008. Etablissements A. Gringoire (Société Anonyme), Loiret, France. Filed Mar. 30, 1951.



Applicant claims ownership of French Registration No. 260, dated June 3, 1950.

For Pastry, Biscuits, and Specially Ginger-Breads.

Ser. No. 612,155. Jean Caute, Casablanca, Morocco. Filed Apr. 3, 1951.



The word "French" is disclaimed. Applicant claims ownership of French Moroccan Registration No. 9,882, dated Feb. 16, 1951.

For Canned Fish.

Ser. No. 612,533. Edmundson-Duhe Rice Mill Co., Inc., Rayne, La. Filed Apr. 12, 1951.

EEE

For Milled Rice and Dressings and Sauces for Use on Rice.

Claims use since May 1936.

Ser. No. 613,004. Halo-Star Corporation, Oak Park, Ill. Filed Apr. 23, 1951.



For Candy.

Claims use since July 1, 1949.

Ser. No. 613,041. Annie Oakley Enterprises, Los Angeles, Calif. Filed Apr. 24, 1951.

ANNIE OAKLEY

Among other meanings the words "Annie Oakley" were pseudonym of the famous woman sharpshooter, Phoebe Mozee, now deceased.

For Prepared Cake Mix, Cookies, Candy Bars, and Oatmeal.

Claims use since Mar. 8, 1951.

Ser. No. 613,538. Valley-Maid Packing Co. Inc., Phoenixville, Pa. Filed May 4, 1951.



The drawing is lined for green. Applicant claims ownership of Registration No. 528,575.

For Cheese and Cracker Sandwiches.

Claims use since Nov. 24, 1950.

Ser. No. 613,639. Harden Farms, Inc., Salinas, Calif. Filed May 8, 1951. (Sec. 2f.)



The words "Pad" and "Pack" are disclaimed. Applicant claims ownership of Registrations Nos. 283,069, 283,070, and others.

For Fresh Vegetables.

Claims use since December 1943.

Ser. No. 614,391. C. P. Gundlach & Co., Inc., Cincinnati, Ohio. Filed May 24, 1951.

Hi-mi-no

For Low Fat Milk Fortified With Vitamins A and D.

Claims use since May 1, 1950.

Ser. No. 614,748. William Spencer Bowen, doing business under the name of Bowen & Company, Westfield, N. J. Filed June 5, 1951.

L-Y-L

For Ground Beef Extender Consisting of Soy Flour, Whole Wheat Flour, Milk Powder, Brewers' Yeast, Sugar Cane Molasses, and Corn Glucose.

Claims use since Apr. 22, 1951.

Ser. No. 615,062. Gerber & Co., Inc., New York, N. Y. Filed June 12, 1951.



The words "Pasteurized Process Cheese Spread" and the representation of the goods are disclaimed.

For Pasteurized Process Cheese Spread.

Claims use since Feb. 15, 1951.

Ser. No. 615,549. Gulf Distributing Co., Weslaco, Tex. Filed June 22, 1951.

SAFE HIT

For Fresh Vegetables—Namely, Lettuce, Tomatoes, Green Beans, Carrots, Beets, and Corn.

Claims use since Oct. 24, 1950.

Ser. No. 615,643. Ida Mae Salad Co., Brentwood, Md. Filed June 25, 1951.

Ida Mae

For Potato Salad, Macaroni Salad, and Cole Slaw.

Claims use since May 18, 1951.

Ser. No. 615,799. Southwestern Candy Company, Inc., Jackson, Tenn. Filed June 27, 1951.



The drawing is lined for brown but no claim is made to color.

For Candy.

Claims use since Apr. 17, 1951.

Ser. No. 616,218. Aktiengesellschaft Chocolat Tobler, also trading as Chocolat Tobler, Limited, and Societe Anonyme Chocolat Tobler, Berne, Switzerland. Filed July 9, 1951.

Amanda

Applicant claims ownership of Swiss Registration No. 100,782, dated Oct. 30, 1941 (renewal of Registration No. 50,545).

For Chocolate Bars Containing Almonds.

Claims use since Nov. 14, 1908 in Switzerland; and since 1908 in commerce between Switzerland and the United States.

Ser. No. 616,241. Pikle-Rite Company, Inc., Chicago, Ill., and Pulaski, Wis. Filed July 9, 1951.

RITA'S GARL-ETS

Applicant claims ownership of Registration No. 410,792.

For Bottled Garlic Flavored Dill Pickles.

Claims use since Aug. 1, 1950.

Ser. No. 617,113. International Milling Company, Minneapolis, Minn. Filed July 30, 1951.



For Wheat Flour, for Human Consumption.

Claims use since Feb. 16, 1931.

Ser. No. 617,198. John Holt & Company, Inc., New York, N. Y. Filed Aug. 1, 1951.

SINBAD

For Canned Rock Lobster.

Claims use since June 21, 1951.

Ser. No. 617,270. Vesuvio Food Products, Inc., New York, N. Y. Filed Aug. 2, 1951.

VESUVIO

For Salami.
Claims use since Sept. 1, 1950.

Ser. No. 617,539. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Filed Aug. 10, 1951.

SUREMIX

Applicant claims ownership of Registrations Nos. 128,522, 128,523, and others.
For Livestock Feed.
Claims use since June 29, 1951.

Ser. No. 618,083. Confections, Incorporated, Chicago, Ill. Filed Aug. 25, 1951.

Hi-LIFE

For Cheese Wafers.
Claims use since Aug. 6, 1951.

Ser. No. 618,300. Joe Lowe Corporation, New York, N. Y. Filed Aug. 31, 1951.

Popsies

Applicant claims ownership of Registration No. 302,259.
For Frozen Confections in the Form of Bite Sized Bon Bons and Sweet Chocolate Coating Therefor.
Claims use since Aug. 25, 1951.

Ser. No. 618,516. The South Shore Packing Corporation, Vermillion, Ohio. Filed Sept. 7, 1951.



For Olives and Jellies.
Claims use since July 16, 1946.

Ser. No. 619,583. Ozmun and Company, Oklahoma City, Okla. Filed Oct. 4, 1951.

BOOMER BELLE

For Canned Fruits and Canned Vegetables.
Claims use since Aug. 23, 1951.

CLASS 47

WINES

Ser. No. 606,957. Societe Anonyme Champagne Perrier-Jouet, Epernay, Marne, France. Filed Nov. 25, 1950.

PJ

For Champagne Wines.
Claims use since 1935 in France; and since November 1935 in commerce between France and the United States.

Ser. No. 614,121. Lucien Ardin, Inc., New York, N. Y. Filed May 21, 1951.

KAGOR

Applicant claims ownership of Registration No. 406,155.
For Wines.
Claims use since Apr. 2, 1951.

Ser. No. 615,080. Pastene Wine & Spirits Co., Inc., Boston, Mass. Filed June 12, 1951.

NAPARELLO

For Wines.
Claims use since Dec. 4, 1946.

Ser. No. 615,672. Wine Growers Guild, Lodi, Calif. Filed June 25, 1951.



The words "Vino da Tavola" are disclaimed. Applicant claims ownership of Registrations Nos. 531,038 and 550,679.
For Wines.
Claims use since Aug. 1, 1950.

Ser. No. 617,624. Pacific Wines, Los Angeles, Calif. Filed Aug. 13, 1951.

SOMMELIER

For Wines.
Claims use since July 24, 1951.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 536,167. Missoula Brewing Company, Missoula, Mont., by change of name from Sicks' Missoula Brewing Co. Filed Sept. 29, 1947.



All wording is disclaimed with the exception of the word "Highlander."
For Beer.
Claims use since Jan. 1, 1910.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 587,469. Esbeco Distilling Corporation, Stamford, Conn. Filed Nov. 8, 1949.

David Garrick

The name "David Garrick" is fanciful.
For Whiskey.
Claims use since Jan. 18, 1934.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 558,874. Disabled American Veterans, Cincinnati, Ohio, and Chicago, Ill. Filed June 10, 1948.

IDENT-O-TAG

For Key Ring Markers.
Claims use since Feb. 21, 1941.

Ser. No. 579,314. Florez, Incorporated, Detroit, Mich. Filed May 23, 1949.

Video-graph

For Display Boards Upon Which Objects Are Removably Attached in Selected Arrangement.
Claims use since Apr. 21, 1949.

Ser. No. 595,543. Jamestown Finishing Products, Inc., Jamestown, N. Y. Filed Apr. 11, 1950.

TAVALON

For Flexible Sheet Material Simulating Leather.
Claims use since Feb. 23, 1950.

Ser. No. 614,468. The Steel Scaffolding Company, Inc., Brooklyn, N. Y. Filed May 28, 1951.

TROUBLE SAVER

Applicant claims ownership of Registration No. 218,837.
For Sectional Tubular Steel Scaffolds, Being Prefabricated Sectional Units and Their Component Parts.
Claims use since Dec. 15, 1949.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 524,722. Anatole Robbins, Inc., Los Angeles, Calif. Original filed, act of 1905, June 24, 1947; amended to application under act of 1946, Principal Register, Dec. 5, 1951.

Fiesti

For After Shave Lotion.
Claims use since June 17, 1946.

Ser. No. 597,469. J. L. Sinykin, Minneapolis, Minn. Filed May 15, 1950.

CINDERELLA

Applicant claims ownership of Registration No. 227,733.
For Perfume, Toilet Water, Talcum Powder, Rouges, Brilliantine, Bath Salts, and Hair Tonic.
Claims use since Oct. 1, 1926.

Ser. No. 599,271. Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, Paris, France. Filed June 16, 1950.

FUTUR

Applicant claims ownership of French Registration No. 350,875, dated Mar. 14, 1944.
For Perfumes, Toilet Waters, and Colognes.

Ser. No. 607,346. Jean Patou, Inc., New York, N. Y. Filed Dec. 6, 1950.

COMPANION

For Purse-Sized Bottles Which Contain Various Perfumes.
Claims use since Nov. 29, 1950.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 576,487. Finnell System, Inc., Elkhart, Ind. Filed Apr. 1, 1949. (Classified in Class 4.)
See this serial number in Class 4 for goods and mark.
Claims use since Sept. 28, 1948.

Ser. No. 579,491. Finger Lakes Chemical Company, Inc., Ithaca and Etna, N. Y. Filed May 25, 1949.



The words "Finger Lakes Chemical Co., Inc.," "Ithaca, New York—P. O. Etna, N. Y.," and the pictorial representation of the Finger Lakes are disclaimed. Applicant claims ownership of Registration No. 389,843.
For Detergents Used for Cleaning and Water Softening Purposes.
Claims use since June 29, 1940.

Ser. No. 580,603. Klem Chemicals Inc., Dearborn, Mich. Filed June 16, 1949. (Sec. 2f.)

KLEM

For Cleaners Used To Clean Metals Preparatory to Painting—Namely, Alkaline Metal Cleaners, Rust Removers and Cleaners, and Pre-Painting Metal Treatment Cleaners in Powder or Liquid Form.
Claims use since May 1, 1943.

Ser. No. 595,735. Tom W. Parks, doing business under the name of New Day Products Company, Anderson, S. C. Filed Apr. 14, 1950.

NEW DAY
GIZ MU

For Liquid Soap for General Household and Laundry Use.
Claims use since Feb. 1, 1950.

Ser. No. 599,955. Joseph A. MacArthur, doing business under the name and style of MacArthur Petroleum & Solvent Co., South Kearney, N. J. Filed June 29, 1950.

Clear-Sol

The word "Clear" is disclaimed.
For Industrial Solvents Used for Cleaning Garments.
Claims use since Mar. 8, 1950.

Ser. No. 603,185. Fels & Company, Philadelphia, Pa. Filed Sept. 6, 1950.

RōL

For Liquid Detergent for General Household Cleaning Purposes, and Solid Detergent in Granulated or Bead Form for General Household Cleaning Purposes.
Claims use since Aug. 31, 1950.

Ser. No. 604,548. Roberts Windsor Soap Co. Ltd., Windsor, England. Filed Oct. 6, 1950.

ROBERTS ROYAL WINDSOR

The words "Roberts" and "Windsor" are disclaimed.
For Toilet Soap.
Claims use since 1820 in England; and since June 11, 1950 in commerce between England and the United States.

Ser. No. 607,257. Lehn & Fink Products Corporation, Bloomfield, N. J. Filed Dec. 4, 1950.

Dorothy Gray

The mark is not intended to identify any particular individual. Applicant claims ownership of Registrations Nos. 200,419, 283,555, 283,587, 283,935, and others.
For Soap and Shampoo.
Claims use since 1916.

Ser. No. 615,593. Wetalene Laboratories, Inc., Columbus, Ohio. Filed June 22, 1951.

ONLY-WUN

For Detergent Compositions for Use in Automatic Washing Machines and General Purposes.
Claims use since Dec. 5, 1950.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 527,560. Armco Steel Corporation, Middletown, Ohio, by change of name from The American Rolling Mill Company. Filed July 5, 1947.

ARMCO

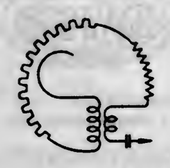
Applicant claims ownership of Registrations Nos. 104,245, 139,474, and others.
For Services Rendered by Way of Consultation With and Advice to Customers or Prospective Customers in Relation to Their Engineering and Development Problems Encountered in the Fabrication of Various Products Made From Stainless Steel.
Claims use since Oct. 1, 1914.

Ser. No. 533,781. Rolland Laboratories, Inc., Kansas City, Mo. Filed Sept. 8, 1947.

Uncle Rolly's Birthday Clubs of America

The notation "Birthday Clubs of America" is disclaimed. "Uncle Rolly's" is a fictitious name.
For Photographing Infants Before Reaching the Age of Six Months and Thereafter Photographing the Child When It Reaches the Age of One, Two, Three, Four, and Five Years.
Claims use since June 23, 1947.

Ser. No. 570,322. Servo Corporation of America, New Hyde Park, N. Y. Filed Dec. 10, 1948.



For Engineering and Consulting Services Rendered to Others on a Contract Basis—Namely, Conducting Surveys, Design Studies, and Research Related to Electronics, Servomechanisms, and Computers.
Claims use since Apr. 1, 1948.

Ser. No. 585,739. Robert S. Aries, doing business under the style of R. S. Aries and Associates, New York, N. Y. Filed Oct. 4, 1949.



The words "Commercial Chemical Development" are disclaimed.
For Consultation and Advisory Services Pertaining to Engineering and Economic Problems in the Field of Commercial Chemistry.
Claims use since Apr. 8, 1948.

Ser. No. 586,249. Mobilhome Corporation of America, Bakersfield, Calif. Filed Oct. 13, 1949.

Mobilhome

For Technical Advice and Information Prepared and Disseminated by Applicant to Its Licensees Relative to the Construction of Buildings—Namely, Design, Architectural, Finance, and Statistical.
Claims use since July 7, 1949.

Ser. No. 588,849. American Water Works Association, Inc., New York, N. Y. Filed Dec. 6, 1949.

WILLING WATER

For Dissemination of Information and Publicity to Its Members and to the Public Concerning the Design, Construction, Operation, and Management of Water Works and the Use and Conservation of Water.
Claims use since February 1947.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 600,005. Williams Advertising Agency, Inc., New York, N. Y. Filed June 29, 1950.

market-eye

The word "Market" is disclaimed.
For Research Services—Namely, Obtaining and Analyzing Marketing and Sales Information Bearing on Operations of Retailers and Manufacturers and Based on Observation of Store Activities and Conducting Sample Shopping Transactions.
Claims use since Sept. 8, 1949.

Ser. No. 613,627. The Bell Answering System, Washington, D. C. Filed May 8, 1951.

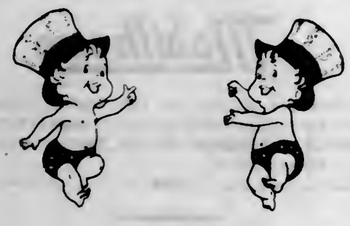


The representation of the telephone and all wording except "Bell" are disclaimed.
For Telephone Answering Service and Mail Address Service.
Claims use since Oct. 25, 1950.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 600,722. Glendale Federal Savings & Loan Association, Glendale, Calif. Filed July 15, 1950.



The words "Safe" and "Friendly" are disclaimed.
For Service Consisting of Accepting Savings and Making Loans With Funds of Depositors.
Claims use since Sept. 3, 1949.

Ser. No. 602,316. Gallery of Homes, Inc., Rochester, N. Y. Filed Aug. 17, 1950.

The Gallery of Homes

The word "Homes" is disclaimed.
For General Real-Estate Brokerage.
Claims use since July 17, 1950.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 527,549. Tnemec Company, Inc., North Kansas City, Mo. Filed July 5, 1947.

TNEMECIZE

Applicant claims ownership of Registrations Nos. 153,399 and 331,435.
For Treatment of Steel Tanks Against Corrosion by Sand Blasting and Applying a Protective Coating Thereto.
Claims use since Jan. 1, 1933.

Ser. No. 552,244. Hygienic Phone Service, Inc., New York, N. Y. Filed Mar. 18, 1948. (Sec. 2f—Additional evidence.)

HYGIENIC PHONE SERVICE

The word "Service" is disclaimed.
For Cleaning, Polishing, Sterilizing, and Immunizing From Disease of Telephones, Dictaphones, and Related Instruments.
Claims use since June 4, 1936.

Ser. No. 557,966. P. Schlampp & Son, Minneapolis, Minn. Filed May 27, 1948.

Fumi-Freez

The term "Freez" is disclaimed.
For Dusting, De-Mothing, Cold Storage of Furs and Fur Garments.
Claims use since May 20, 1935.

Ser. No. 596,063. American Bosch Corporation, Springfield, Mass. Filed Apr. 21, 1950. (Sec. 2f as to "American Bosch.")

AMERICAN AB BOSCH

Applicant claims ownership of Registrations Nos. 410,238, 411,706, and others.
For Service, Maintenance and Repair of Motor Vehicles and Internal Combustion Engines, Parts Thereof and Accessories Therefor, and for the Installation of Repair Parts for Said Motor Vehicles and Internal Combustion Engines, Parts Thereof and Accessories Therefor.
Claims use since Apr. 14, 1944.

Ser. No. 606,964. Baker-Roos, Inc., Indianapolis, Ind. Filed Nov. 27, 1950. (Sec. 2f.)

ROOSPEED SERVICE

The words "Dependability" and "Service" are disclaimed. Applicant claims ownership of Registration No. 295,038.
For Leasing of Concrete Building Forms.
Claims use since Jan. 1, 1931.

Ser. No. 616,237. National Multiweaving Company, Washington, D. C. Filed July 9, 1951. (Sec. 2f—Additional evidence.)

IN-WEAVING

For Fabric Repair Services Accomplished by Inserting a Piece of Fabric in a Larger Piece of Fabric and Weaving the Threads of One Into the Other To Hold Said Smaller Piece in Place Therein.
Claims use since Mar. 15, 1932.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 525,469. Western Air Lines, Inc., Los Angeles, Calif. Original filed, act of 1905, July 1, 1947; amended to application under act of 1946, Principal Register, Jan. 20, 1950.



For Air Transportation of Passengers, Freight, and Mail.
Claims use since 1926.

Ser. No. 553,157. Willmann's Furriers, Oklahoma City, Okla. Filed Mar. 26, 1948.



The words "Fur Storage" are disclaimed.
For Fur Storage Service.
Claims use since Apr. 10, 1946.

Ser. No. 557,966. P. Schlampp & Son, Minneapolis, Minn. Filed May 27, 1948. (Classified in Class 103.)
The term "Freez" is disclaimed.
See this serial number in Class 103 for goods and mark.
Claims use since May 20, 1935.

Ser. No. 583,160. Mohawk Motor Lines, Inc., Nashville, Tenn. Filed Aug. 8, 1949. (Sec. 2f.)

PORK CHOP PULLMAN

For Transporting Packing-House Products by Refrigerated Motor Van.
Claims use since 1936.

Ser. No. 598,304. Luella R. Jones, doing business as Briarhurst Travel Service, Dallas, Tex. Filed May 29, 1950.

Briarhurst

For Travel Service—Namely, Arranging and Personally Conducting Tours, Making Arrangements for Hotel Accommodations and Transportation.
Claims use since Mar. 1, 1933.

Ser. No. 605,724. Compagnie Nationale Air France, Paris, France, and New York, N. Y. Filed Nov. 1, 1950.



For Air Transportation of Passengers and Freight.
Claims use since 1933.

Ser. No. 606,338. John B. Sousa, doing business as Travel Center, Los Angeles, Calif. Filed Nov. 13, 1950.

FUNCRUISE

Applicant claims ownership of Registration No. 513,501.
For Travel Services—Namely, Conducting Planned Excursions.
Claims use since June 4, 1950.

CLASS 106

MATERIAL TREATMENT

Ser. No. 557,966. P. Schlampp & Son, Minneapolis, Minn. Filed May 27, 1948. (Classified in Class 103.)
The term "Freez" is disclaimed.
See this serial number in Class 103 for goods and mark.
Claims use since May 20, 1935.

Ser. No. 602,532. The House of Vision—Belgard-Spero, Inc., Chicago, Ill. Filed Aug. 11, 1950.

The House of Vision

Applicant claims ownership of Registrations Nos. 344,583 and 430,936.
For Grinding Lenses for Eye Glasses to the Individual Prescriptions Furnished by Eye Physicians.
Claims use since Apr. 1, 1934.

Ser. No. 608,433. Peerless Finishing Corp., Paterson, N. J. Filed Jan. 5, 1951.

PEER-GLO

For Dyeing of All Types of Textiles.
Claims use since August 1949.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 537,819. Perfect Circle Corporation, Hagerstown, Ind. Filed Oct. 14, 1947. (Sec. 2f.)

PERFECT CIRCLE

Applicant claims ownership of Registrations Nos. 171,675, 315,621, 317,614, Etc.
For Instructing Mechanics and Repair Men in Methods of Overhauling and Repairing Internal Combustion Engines, Particularly To Obtain Proper Operation of the Pistons Within the Cylinders Thereof, and in the Selection and Installation of Parts for Said Engines.
Claims use since July 1941.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,671. Work Gloves. North Star Manufacturing Co., Tacoma, Wash.
Filed July 6, 1945, Serial No. 485,513. Published Jan. 27, 1948. Class 39.

444,672. Silver Polish. Texize Chemicals, Inc., Greenville, S. C.
Filed Mar. 4, 1947, Serial No. 518,489. Published Jan. 1, 1952. Class 4.

ACT OF 1946, PRINCIPAL REGISTER

556,148. Paper Tablets and Loose Writing Paper for School or Office Use, Put Up in Wrapped Packages, Boxed, or Banded. Western Tablet & Stationery Corporation, Dayton, Ohio.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Oct. 29, 1948, Serial No. 526,161. Published Jan. 1, 1952. Class 37.

556,149. Intramuscular Injection for Treatment and Prevention of Poison-Oak and Poison-Ivy Poisoning. George Martin Broemmel, doing business as Broemmel Pharmaceuticals, San Francisco, Calif.
Filed July 5, 1947, Serial No. 527,114. Published Oct. 9, 1951. Class 18.

556,150. Writing and Typewriter Paper. Valley Paper Company, Holyoke, Mass.
Filed July 5, 1947, Serial No. 527,525. Published Jan. 1, 1952. Class 37.

556,151. Boned Chicken and Boned Turkey. C. A. Swanson & Sons, Omaha, Nebr.
Filed July 5, 1947, Serial No. 527,994. Published Sept. 19, 1950. Class 46.

556,152. Fabric Work Gloves. Good Luck Glove Company, Carbondale, Ill.
Filed July 19, 1947, Serial No. 528,920. Published Dec. 25, 1951. Class 39.

556,153. Chewing Gum. Topps Chewing Gum, Incorporated, Brooklyn, N. Y.
Filed Sept. 17, 1947, Serial No. 534,839. Published Nov. 7, 1950. Class 46.

556,154. Workingmen's Gloves, of Leather-Faced Cotton. Wells Lamont Corporation, Chicago, Ill.
Filed Sept. 26, 1947, Serial No. 535,914. Published Dec. 18, 1951. Class 39.

556,155. Hosiery for Men and Boys. Dura-Tred Hosiery Mills Company, Inc., Burlington, N. C.
Filed Oct. 27, 1947, Serial No. 539,139. Published Dec. 18, 1951. Class 39.

556,156. CONSOLIDATED CERTIFICATE. Elkhart Brass Manufacturing Company, Inc., Elkhart, Ind.
Fire Hose Racks. Filed Nov. 1, 1947, Serial No. 539,861. Published Dec. 12, 1950. Class 13.
Fire Hose Cabinets. Filed Mar. 24, 1950, Serial No. 594,531. Published Nov. 20, 1951. Class 32.

556,157. Hot Water Tanks and Heaters for Domestic Use. Continental Water Heater Company, Ltd., Los Angeles, Calif., assignor to Continental Water Heater Co., Los Angeles, Calif., a corporation of California.
Filed Nov. 3, 1947, Serial No. 539,939. Published Dec. 6, 1949. Class 34.

556,158. Heat Recovery Silencers Which Incorporate Heat Exchanging Means for Extracting Heat From Steam or Hot Exhaust Gas, and Evaporators With or Without a Condenser and Heated by Steam or Hot Exhaust Gas. The Maxim Silencer Company, Hartford, Conn.
Filed Nov. 20, 1947, Serial No. 541,853. Published Jan. 1, 1952. Class 34.

556,159. Vegetable Waxes—Namely, Carnauba Wax, Oricouri Wax and Candelilla Wax; Synthetic Waxes for Industrial Purposes; Synthetic Resinous Plastic Materials in the Form of Powder, Granules, Emulsions, Solutions for Use in the Industrial Arts. Allied Raw Materials Company, Inc., New York, N. Y.
Filed Dec. 11, 1947, Serial No. 544,023. Published Dec. 25, 1951. Class 6.

556,160. Men's Clothing—Namely, Trousers, Vests, Coats, and Overcoats. David Theodore Langrock, New Haven, Conn.
Filed Feb. 2, 1948, Serial No. 548,596. Published Dec. 25, 1951. Class 39.

556,161. Hosiery for Men, Women, Boys, or Girls. Rockford Mitten & Hosiery Company, Rockford, Ill.
Filed Feb. 5, 1948, Serial No. 548,847. Published Dec. 18, 1951. Class 39.

556,162. Preparation Consisting of Dehydrated Egg Albumin and Egg Yolk and Heat Treated Corn Flour in Powder Form for Use With Ground Meat or Meat in Any Form. Tenderet Sales Company, Chicago, Ill.
Filed Feb. 28, 1948, Serial No. 550,859. Published Dec. 18, 1951. Class 46.

556,163. Stock Stalls, Brooder Houses, Farrowing Houses, Poultry and Utility Houses, Sheet Metal Roofing in Rolls and Shingles, Fence Gates Formed of Wood and Combinations of Wood and Metal. Sears, Roebuck and Co., Chicago, Ill.
Filed Mar. 6, 1948, Serial No. 551,408. Published Nov. 27, 1951. Class 12.

556,164. Ready Mixed Portland Cement and Aggregates Adapted to Varying Construction Requirements. Kuring & Erickson, Associates, Glendale, Calif.
Filed Apr. 26, 1948, Serial No. 555,608. Published May 16, 1950. Class 12.

556,165. Composition of Material for Wall Boards in Board or Sheet Form, Etc. The Celotex Corporation, Chicago, Ill.
Filed Sept. 12, 1947, Serial No. 555,902. Published Dec. 4, 1951. Class 12.

556,166. Fresh Eggs. Charles W. Kircher, doing business as North Hollywood Egg Farms, North Hollywood, Calif.
Filed May 27, 1948, Serial No. 557,935. Published Sept. 27, 1949. Class 46.

556,167. Construction Materials—Namely, Concrete Rings and Plates Used in Concrete Buildings, and Supports for Adjustably Mounting a Threaded Shank Between Studs or Joists. All-Steel Equipment Inc., Aurora, Ill.
Filed June 4, 1948, Serial No. 558,433. Published Nov. 27, 1951. Class 12.

556,168. Fresh Citrus Fruits. Mission Citrus Association, Redlands, Calif.
Filed June 17, 1948, Serial No. 559,527. Published Dec. 4, 1951. Class 46.

556,169. Bath Salts, Cologne, Cake Make-Up, Talcum Powder, Etc. Universal Laboratories, Inc., East Orange, N. J., assignor, by mesne assignments, to Westport Laboratories, Inc., Bridgeton, N. J., a corporation of Connecticut.
Filed July 1, 1948, Serial No. 560,787. Published Apr. 18, 1950. Class 51.

556,170. Antibiotics and Chemo-Therapeutic Agents Dispersable in Liquids. American Cyanamid Company, New York, N. Y.
Filed Feb. 15, 1949, Serial No. 573,861. Published Mar. 27, 1951. Class 18.

556,171. Anti-Perspirant Cream. Barbara Gould, Inc., New York, N. Y.
Filed Mar. 8, 1949, Serial No. 575,051. Published Nov. 27, 1951. Class 51.

556,172. Protective Equipment for Protecting the Heads, Faces, and Respiratory Organs of Workmen in Industry consisting of, Paint Spray and Sandblast Masks, Respirators and Gas Masks and Hoods. Chicago Eye Shield Company, Chicago, Ill.
Filed Apr. 5, 1949, Serial No. 576,628. Published Nov. 20, 1951. Class 44.

556,173. Chemical Preparations for Sizing and Finishing Textile Fabrics of Animal, Vegetable, and Synthetic Fibres—Namely, After-Treating Agents, Etc. Seydel-Woolley & Company, Atlanta, Ga.
Filed Apr. 5, 1949, Serial No. 576,661. Published Jan. 1, 1952. Class 6.

556,174. Mixture of Bird Seed. Wilbur Luikens, doing business as Holland American Seed Company, Grand Rapids, Mich.
Filed Apr. 11, 1949, Serial No. 576,922. Published Dec. 25, 1951. Class 46.

556,175. Ladies' Hosiery. Reamstown Hosiery Mills, Inc., Mohnton, Pa.
Filed May 11, 1949, Serial No. 578,625. Published June 26, 1951. Class 39.

556,176. Antibiotic Preparation. Chas. Pfizer & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc., a corporation of Delaware.
Filed July 21, 1949, Serial No. 582,321. Published Nov. 6, 1951. Class 18.

556,177. Aluminum Hydroxide Preparation for the Treatment of Pruritus Ani. Senmer Company, Youngstown, Ohio.
Filed Aug. 8, 1949, Serial No. 583,173. Published Oct. 9, 1951. Class 18.

556,178. Men's, Women's, Boys' and Children's Knitted and Woven Underwear, Etc. Utica Knitting Company, Utica, N. Y.
Filed Aug. 23, 1949, Serial No. 583,897. Published Dec. 25, 1951. Class 39.

556,179. Replacement Parts for Passenger Automobiles, Trucks and Busses, Etc. Freedco Products, Inc., New York, N. Y.
Filed Aug. 24, 1949, Serial No. 583,923. Published Dec. 18, 1951. Class 21.

556,180. Adrenocorticotrophic Hormone. Armour and Company, Chicago, Ill.
Filed Sept. 2, 1949, Serial No. 584,379. Published Oct. 9, 1951. Class 18.

556,181. Women's Full Fashioned Hosiery. Berkshire Knitting Mills, Reading and Wyomissing, Pa.
Filed Sept. 15, 1949, Serial No. 584,850. Published Dec. 25, 1951. Class 39.

556,182. Air Deflectors for Use on Automobiles. Peters & Russell, Inc., Springfield, Ohio.
Filed Sept. 4, 1948, Serial No. 566,423. Published Dec. 11, 1951. Class 19.

556,183. Chemically Treated Blocks Used in Door-Operated Sprays. Harold D. Conner, doing business under the name and style of H. D. Conner Company, Wichita, Kans.
Filed Oct. 30, 1948, Serial No. 567,905. Published Dec. 4, 1951. Class 6.

556,184. Grooved Phonograph Records with Lesson Books and Students' Check Lists Leased to Schools for Educational Purposes. Louis E. Schwartz, Brooklyn, N. Y.
Filed Nov. 13, 1948, Serial No. 568,755. Published Dec. 25, 1951. Class 36.

556,185. Abrasive Wheels. Raybestos-Manhattan, Inc., Passaic, N. J.
Filed Nov. 30, 1948, Serial No. 569,640. Published Dec. 25, 1951. Class 4.

556,186. Medicinal Preparation for Aid in Relief of Gastric Disturbances. Samuel K. Lowry, doing business under the firm name and style of York Drug Store, York, S. C.
Filed Dec. 8, 1948, Serial No. 570,212. Published Nov. 20, 1951. Class 18.

556,187. Ladies' Hosiery. M. Gordon Hosiery Mills, Inc., Sinking Spring, Pa.
Filed Dec. 17, 1948, Serial No. 570,701. Published Dec. 11, 1951. Class 39.

556,188. CONSOLIDATED CERTIFICATE. Palmers Limited, Montreal, Quebec, Canada.
Perfumes and Toilet Preparations—Namely, Hand Lotions, Skin Lotions, Hand Cream, Face Cream, Cold Cream, Vanishing Cream, Toilet Water, Eau de Cologne, Hair Tonic, Skin Tonic, Face Powder, Bath Powder, Talcum Powder, Sachet Powder, Lipstick, Rouge, Mascara, and Nail Polish. Filed Jan. 28, 1949, Serial No. 572,994. Published Apr. 10, 1951. Class 51.
Hand Soap, Toilet Soap and Bath Soap. Filed July 13, 1950, Serial No. 601,521. Published May 8, 1951. Class 52.

556,189. Coconut Candy Bar. Walter Williams Candy Co., Oklahoma City, Okla.
Filed Aug. 2, 1948, Serial No. 563,560. Published Dec. 25, 1951. Class 46.

556,190. Soapless Shampoo. W-B Chemical Company, Inc., South Mount Vernon, N. Y.
Filed Aug. 17, 1948, Serial No. 563,646. Published Nov. 27, 1951. Class 52.

556,191. Aeroplane Propellers. Koppers Company, Inc., Pittsburgh, Pa., and Baltimore, Md.
Filed Sept. 22, 1948, Serial No. 565,635. Published Dec. 25, 1951. Class 19.

556,192. Men's, Women's and Children's Underwear and Knitted Polo and T-Shirts. Natira Sales Company, Allentown, Pa.
Filed Sept. 29, 1948, Serial No. 566,093. Published Dec. 25, 1951. Class 39.

556,193. Medicinal Preparation Consisting of Para-Aminosalicylic Acid Primarily for the Treatment of Tuberculosis. The Upjohn Company, Kalamazoo, Mich.
Filed Jan. 29, 1949, Serial No. 573,063. Published Oct. 9, 1951. Class 18.

556,194. Sulfated Fatty Oils, Sulfated Fatty Acids, Fatty Amides, Etc. Nopco Chemical Company, Harrison, N. J.
Filed Aug. 15, 1949, Serial No. 585,483. Published Nov. 20, 1951. Class 4.

556,195. Therapeutic Preparations—Namely, Powdered Enzyme and Enzyme Solution for Use to Enhance the Rate of Subcutaneous Infusion. Ortho Pharmaceutical Corporation, Raritan, N. J.
Filed Oct. 4, 1949, Serial No. 585,763. Published Nov. 6, 1951. Class 18.

556,196. Therapeutic Preparations—Namely, Injectable Estrogenic Solutions. Ortho Pharmaceutical Corporation, Raritan, N. J.
Filed Oct. 4, 1949, Serial No. 585,764. Published Nov. 6, 1951. Class 18.

556,197. Nasal Drops. The Zodrop Company, Harrisburg, Ill.
Filed Oct. 13, 1949, Serial No. 586,260. Published Nov. 13, 1951. Class 18.

556,198. Metal Channel Forms Used for the Installation of Acoustical Material. Jacobson & Company, Inc., New York, N. Y., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware.
Filed Oct. 18, 1949, Serial No. 586,488. Published Nov. 27, 1951. Class 12.

556,199. Fluid Ink Eradicator. Sanford Ink Company, Bellwood, Ill.
Filed Oct. 25, 1949, Serial No. 586,822. Published July 17, 1951. Class 52.

556,200. Tablets for Use as a Vascular Protective and Lipotropic Agent. Schenley Laboratories, Inc., New York, N. Y.
Filed Nov. 4, 1949, Serial No. 587,356. Published Oct 30, 1951. Class 18.

556,201. Petrolatum, Insecticides, Fungicides, and Herbicides. Standard Oil Company, Whiting, Ind. and Chicago, Ill.
Filed Nov. 4, 1949, Serial No. 587,365. Published Dec 4, 1951. Class 6.

556,202. Antacid and Adsorbent for Treatment of Gastro-intestinal Conditions. The Harrower Laboratory, Inc., Glendale, Calif.
Filed Nov. 8, 1949, Serial No. 587,486. Published Oct. 30, 1951. Class 18.

556,203. Surgical Sterilizers and Parts Thereof, Sold as a Unit. Wilmot Castle Company, Rochester, N. Y.
Filed Nov. 9, 1949, Serial No. 587,574. Published Dec. 18, 1951. Class 44.

556,204. Antiseptic Cleansing and Deodorising Douche Preparations. Fem-Gene Products Co., Phoenix, Ariz.
Filed Nov. 10, 1949, Serial No. 587,630. Published Nov. 27, 1951. Class 18.

556,205. Medicinal Preparation for Use as an Analgesic and for the Relief of the Symptoms of the Various Forms of the Rheumatoid Conditions Including Rheumatism, Arthritis, Rheumatic Fever, Forms of Sciatica and Neuritis, Bursitis, Fibrositis, Myositis, and Lumbago. Dolcin Corporation, New York, N. Y.
Filed Nov. 14, 1949, Serial No. 587,716. Published Nov. 6, 1951. Class 18.

556,206. Estrogenic Preparations. E. R. Squibb & Sons, New York, N. Y.
Filed Nov. 15, 1949, Serial No. 587,831. Published Nov. 13, 1951. Class 18.

556,207. Plywood. Spicedwood Corporation, Mellen, Wis.
Filed Nov. 19, 1949, Serial No. 588,115. Published Nov. 27, 1951. Class 12.

556,208. Surgical Sterilizers and Parts Thereof, Sold as a Unit. Wilmot Castle Company, Rochester, N. Y.
Filed Nov. 26, 1949, Serial No. 588,422. Published Dec. 18, 1951. Class 44.

556,209. Men's and Boys' Coats, Suits, Jackets, Waistcoats, and Trousers, and Women's and Children's Coats, Suits, Frocks, and Skirts. All Made From Piece Goods of Wool, Worsted, or Hair. J. & J. Crombie Limited, Woodside, Aberdeen, Scotland.
Filed Dec. 3, 1949, Serial No. 588,745. Published Oct. 30, 1951. Class 39.

556,210. Automobile Springs. United States Spring & Bumper Company, Los Angeles, Calif.
Filed Dec. 13, 1949, Serial No. 589,285. Published Dec. 11, 1951. Class 19.

556,211. Corn, Callous, and Bunion Pads, Corn and Bunion Shields, Hammer Toe and Tailors' Bunion Pads, Orthopedic Insoles, and Arch Pads and Arch Supports. The Scholl Mfg. Co., Inc., Chicago, Ill.
Filed Dec. 14, 1949, Serial No. 589,338. Published Dec. 18, 1951. Class 44.

556,212. Oil and Grease Products, Being in the Nature of Waterproofing Materials for Leather and Primarily Used on Shoes. Cecil H. Runyon, doing business as Dry-Ped Products Co., Portland, Oreg.
Filed Dec. 15, 1949, Serial No. 589,395. Published Oct. 2, 1951. Class 6.

556,213. Men's and Boys' Jackets, Overcoats, Topcoats, Raincoats, Mackinaws, and Trousers. Prentis Clothes Corp., New York, N. Y.
Filed Dec. 16, 1949, Serial No. 589,473. Published Aug. 15, 1950. Class 39.

556,214. Preparation in Tablet Form for Use as a Remedy for Bad Breath and the Relief of Indigestion. Arthur F. Schulz, doing business under the firm name Breathette Co., Kansas City, Mo.
Filed Dec. 21, 1949, Serial No. 589,746. Published May 29, 1951. Class 18.

556,215. Food Supplement in Pellet or Pill Form. William A. Griffin, doing business under the fictitious firm name of 3F Products Co., South Pasadena, Calif.
Filed Dec. 22, 1949, Serial No. 589,783. Published Oct. 23, 1951. Class 18.

556,216. Sport Jackets and Topcoats for Men and Women. Currick & Leiken Co., Inc., New York, N. Y.
Filed Nov. 26, 1949, Serial No. 589,935. Published Dec. 25, 1951. Class 39.

556,217. Buffing Compounds. The Lea Manufacturing Company, Waterbury, Conn.
Filed Dec. 29, 1949, Serial No. 590,089. Published Nov. 13, 1951. Class 4.

556,218. Chemical Composition Added to a Dyeing Compound for Giving Hosiery a Duller Finish and Affording Resistance to Snags and the Like. The Roxborough Company, Philadelphia, Pa.
Filed Jan. 17, 1950, Serial No. 590,995. Published Nov. 20, 1951. Class 6.

556,219. Hydrocarbons, Phenols, Including Chlorinated Phenols, Etc. Allied Chemicals & Dye Corporation, New York, N. Y.
Filed Jan. 18, 1950, Serial No. 591,011. Published Nov. 20, 1951. Class 6.

556,220. Gummed Paper Tape and Gummed Cloth Tape. Mid-States Gummed Paper Co., Chicago, Ill.
Filed Jan. 20, 1950, Serial No. 591,182. Published Dec. 18, 1951. Class 5.

556,221. Chemical Compounds for Use as Water Softeners. Spontane Mfg. Company, Atlanta, Ga.
Filed Jan. 20, 1950, Serial No. 591,202. Published Nov. 20, 1951. Class 6.

556,222. Fumigant. Chemi-Sol Chemical and Sales Co., Hutchinson, Kans.
Filed Jan. 24, 1950, Serial No. 591,354. Published Nov. 27, 1951. Class 6.

556,223. Pharmaceutical Preparation Consisting of Estrogenic Substances (Equine) for Medicinal Use. Charles E. Frosst & Co., Montreal, Quebec, Canada.
Filed Jan. 25, 1950, Serial No. 591,417. Published Nov. 13, 1951. Class 18.

556,224. Roofing, Insulating Board, and Insulated Siding. Globe Roofing Products Co., Inc., Whiting, Ind.
Filed Feb. 2, 1950, Serial No. 591,846. Published Dec. 18, 1951. Class 12.

556,225. Vitamin D for the Fortification of Milk. René Howard Douglas, doing business under the name Douglas Laboratories, Evanston, Ill.
Filed Jan. 18, 1950, Serial No. 591,896. Published Nov. 20, 1951. Class 18.

556,226. Tool Joint Compound Which Both Seals and Lubricates. Thread Compounds Manufacturing Company, Gardena, Calif.
Filed Feb. 3, 1950, Serial No. 591,966. Published Nov. 27, 1951. Class 12.

556,227. Cattle Hide Leather Tanned With California Oak Bark and Finished With a Highly Glazed Smooth Plated Surface. A. K. Salz Company, Santa Cruz, Calif.
Filed Feb. 4, 1950, Serial No. 592,003. Published Dec. 18, 1951. Class 1.

556,228. Alloy Steel and Corrosion Resisting Alloy Steel in the Form of Ingots, Castings, and Forgings, and in Wrought Forms Such as Fillets, Bars, Rods, Wire, and the Like. Armco Steel Corporation, Middletown, Ohio.
Filed Feb. 9, 1950, Serial No. 592,183. Published Dec. 18, 1951. Class 14.

556,229. Men's, Boys', and Ladies' Jackets. The Shirtcraft Company, Inc., New York, N. Y.
Filed Feb. 9, 1950, Serial No. 592,225. Published Dec. 25, 1951. Class 39.

556,230. Agricultural Insecticide. Geary Chemical Corp., New York, N. Y., assignor to Chemagro Corporation, New York, N. Y., a corporation of New York.
Filed Feb. 10, 1950, Serial No. 592,263. Published Dec. 4, 1951. Class 6.

556,231. Wearing Apparel—Namely, Trousers, Overalls, Shorts, Rompers, Shirts and Jackets, Slacks, Shirts, Vests and Jackets, and Pants and Shirts for Children, Young Men, and Young Women. The Crown Overall Manufacturing Company, Cincinnati, Ohio.
Filed Feb. 13, 1950, Serial No. 592,360. Published Dec. 25, 1951. Class 39.

556,232. Chemical Preparation Used in the Treatment of Colds and Bronchitis in Poultry, Consisting of Camphor, Formaldehyde, Oil of Eucalyptus, Creosote, Water, and Oil of Pine. George Cohen, doing business as Co-Halant Products, Easton, Pa.
Filed Feb. 15, 1950, Serial No. 592,477. Published Nov. 6, 1951. Class 18.

556,233. Eau de Cologne. J. & E. Atkinson Limited, London, England.
Filed Feb. 17, 1950, Serial No. 592,597. Published Nov. 13, 1951. Class 51.

556,234. Window Screens. Screens & Fabricated Metals Corp., North Bergen, N. J.
Filed Feb. 17, 1950, Serial No. 592,667. Published Nov. 27, 1951. Class 12.

556,235. Colorless, Transparent Adhesive Cement. Hammel, Riglander & Co. Inc., New York, N. Y.
Filed Feb. 21, 1950, Serial No. 592,812. Published Dec. 18, 1951. Class 5.

556,236. Rubber Latex. H & C Latex Limited, Kuala Lumpur, Federation of Malaya.
Filed Feb. 23, 1950, Serial No. 592,904. Published Nov. 20, 1951. Class 1.

556,237. Chemical Preparations for Destroying Moths, Larvae, Moth Eggs, and Carpet Beetles. John A. Sewell, doing business as Norwood Laboratories, Chicago, Ill.
Filed Mar. 2, 1950, Serial No. 593,294. Published Dec. 25, 1951. Class 6.

556,238. Plaster Patch. The Gambrills Company, Inc., Gambrills, Md.
Filed Mar. 3, 1950, Serial No. 593,342. Published Dec. 18, 1951. Class 12.

556,239. Artificial and Synthetic Perfumery Compositions, Etc. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Mar. 9, 1950, Serial No. 593,665. Published Nov. 20, 1951. Class 51.

556,240. Semi-Hard Rubber From Which Products Are Fabricated for Use in the Chemical Industries. Stokes Molded Products, Inc., Trenton, N. J.
Filed Mar. 9, 1950, Serial No. 593,696. Published Nov. 20, 1951. Class 1.

556,241. Vitamin Concentrates for Fortifying Livestock Feeds. Alva Baber, doing business as Baber's Supply Company, Sioux City, Iowa.
Filed Mar. 11, 1950, Serial No. 593,774. Published Oct. 9, 1951. Class 18.

556,242. Fresh Grapes. T. Apkarian & Sons, Reedley, Calif.
Filed Mar. 13, 1950, Serial No. 593,851. Published Dec. 4, 1951. Class 46.

556,243. Special-Bodied Automotive Trucks and Special Bodies Therefor. American Truck & Body Company, Inc., Martinsville, Va.
Filed Mar. 17, 1950, Serial No. 594,089. Published Dec. 11, 1951. Class 19.

556,244. Curtain and Upholstery Fabrics of Cotton, Wool, Silk, and Synthetic Fibres, and of Plastic Yarn. Knoll Associates, Inc., New York, N. Y.
Filed Mar. 22, 1950, Serial No. 594,384. Published Dec. 25, 1951. Class 42.

556,245. Evacuants. American Cyanamid Company, New York, N. Y.
Filed Mar. 23, 1950, Serial No. 594,427. Published Nov. 13, 1951. Class 18.

556,246. Dried Fruit. California Packing Corporation, San Francisco, Calif.
Filed Apr. 11, 1950, Serial No. 595,533. Published Dec. 25, 1951. Class 46.

556,247. Panels Composed of Low Density Cellular Core Material Having Structural Strength for General Construction and Fabrication, Said Panels Made of Resin Impregnated Glass Cloth, Textile Fabric, Paper and/or Metal Foil. California Reinforced Plastics Company, Berkeley, Calif.
Filed Apr. 21, 1950, Serial No. 596,073. Published Nov. 27, 1951. Class 12.

556,248. Dietary Supplement Comprising Lecithin and Skim Milk Solids for the Modification of the Bacterial Content of the Gastro-Intestinal Tract. Wyeth Incorporated, Philadelphia, Pa.
Filed Apr. 21, 1950, Serial No. 596,142. Published Oct. 30, 1951. Class 18.

556,249. Stove for Heating Paving Materials Mounted Upon a Trailer-Chassis. Wylie Brothers, Inc., Oklahoma City, Okla.
Filed Apr. 24, 1950, Serial No. 596,251. Published Dec. 4, 1951. Class 34.

556,250. Airplanes and Airplane Structural Parts. Bellanca Aircraft Corporation, New Castle, Del.
Filed Apr. 26, 1950, Serial No. 596,322. Published May 15, 1951. Class 19.

556,251. Metal Siding for Building Construction. Brainerd Aluminum Products, Inc., Brainerd, Minn.
Filed Apr. 27, 1950, Serial No. 596,388. Published Nov. 27, 1951. Class 12.

556,252. Space Heating Radiators and Closures Therefor. Baseline Mfg. Corp., Washington, D. C.
Filed May 1, 1950, Serial No. 596,647. Published Nov. 27, 1951. Class 34.

556,253. Slippers in the Form of Slipper-Sole Members With Hose Removably Attached Thereto by Mechanical Means. John B. Davidson Woolen Mills, Inc., Eaton Rapids, Mich.
Filed May 1, 1950, Serial No. 596,656. Published Dec. 25, 1951. Class 39.

556,254. Smoked Ham. Hunter Packing Company, East St. Louis, Ill.
Filed May 2, 1950, Serial No. 596,725. Published Oct. 30, 1951. Class 46.

556,255. Fire Extinguishing Compositions Effective on Burning Sodium, Potassium, Magnesium, Zinc, Powdered Aluminum, and Other Combustible Metals. Ansul Chemical Company, Marinette, Wis.
Filed May 3, 1950, Serial No. 596,770. Published Nov. 13, 1951. Class 6.

556,256. Aqueous Dispersions of Chemicals, Etc. Alco Oil and Chemical Corp., Philadelphia, Pa.
Filed May 3, 1950, Serial No. 596,893. Published Dec. 25, 1951. Class 6.

556,257. Portable Heat Reflecting and Fire-Resistant Shields, Known Also as Screens and Guards and Composed Principally of Flexible Panels and Sheets of Fabric Treated With Fire-Resistant Materials, Etc. Dubuque Awning & Tent Company, Dubuque, Iowa.
Filed May 8, 1950, Serial No. 597,070. Published Jan. 1, 1952. Class 34.

556,258. Medicine in the Form of an Alkaline Powder for Sour Stomach and Flatulence Due to Hyperacidity. Herndon Drug Company, Inc., doing business as Fermlax Chemical Co., Elberton, Ga.
Filed May 8, 1950, Serial No. 597,075. Published Oct. 30, 1951. Class 18.

556,259. Mechanically Grooved Phonograph Records. Telefunken Försäljningsaktiebolag, Stockholm, Sweden.
Filed May 9, 1950, Serial No. 597,177. Published Dec. 25, 1951. Class 36.

556,260. Fluid Extractum Kolae, With Glucose for the Symptomatic Relief of Nausea, Vomiting, and Upset Stomach Due to Intestinal Influenza and Epidemic Diarrhea. Emanuel E. Evans, doing business as The Colarex Company, Youngstown, Ohio, assignor to Rexall Drug Company, Los Angeles, Calif.
Filed May 16, 1950, Serial No. 597,515. Published May 1, 1951. Class 18.

556,261. Monthly Publication. The Society for The Advancement of Management, Inc., New York, N. Y.
Filed May 20, 1950, Serial No. 597,847. Published Dec. 18, 1951. Class 38.

556,262. Preparation Having Wetting, Spreading, and Sticking Properties for Use in Aqueous Sprays Containing Agricultural Insecticides, Fungicides, and Herbicides. Wilson & Toomer Fertilizer Co., Jacksonville, Fla.
Filed May 22, 1950, Serial No. 597,928. Published Nov. 13, 1951. Class 6.

556,263. Rubberized or Plastic-Coated or Impregnated Fabric in the Form of Flexible Tubing To Be Used for Ventilation. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed May 25, 1950, Serial No. 598,070. Published Nov. 27, 1951. Class 34.

556,264. Friction Tape. Johns-Manville Corporation, New York, N. Y.
Filed June 2, 1950, Serial No. 598,482. Published Dec. 18, 1951. Class 5.

556,265. Air Circulator Having Filtering and Humidifying Elements Sold as a Unit. Mimar Products, Inc., Brooklyn, N. Y.
Filed June 3, 1950, Serial No. 598,537. Published Jan. 1, 1952. Class 34.

556,266. Metal Cleaning and Polishing Compound. Kenerson-Edgar Company, Cleveland, Ohio, assignor to The Kenerson-Edgar Company, Cleveland, Ohio, a corporation of Ohio.
Filed June 6, 1950, Serial No. 598,655. Published Jan. 1, 1952. Class 4.

556,267. Pharmaceutical Compounds, To Wit—Adenosin, Asparagine, Etc. Usines Chimiques des Laboratoires Francais, Paris, France.
Filed June 13, 1950, Serial No. 599,037. Published Nov. 6, 1951. Class 18.

556,268. Canned Vegetables and Canned Tomato Juice for Food Purposes. Hungerford Packing Co., Inc., Hungerford, Pa.
Filed May 6, 1950, Serial No. 599,047. Published Jan. 1, 1952. Class 46.

556,269. Asbestos Cement Shingles and Sidings. The Paraffine Companies, Inc., San Francisco, Calif., now by change of name Pebco Products, Inc., a corporation of Delaware.
Filed June 17, 1950, Serial No. 599,339. Published Nov. 27, 1951. Class 12.

556,270. Polymer and Copolymer Dispersions in an Aqueous Phase for Use in Surface Coatings—Namely, in the Paint, Paper, and Adhesive Industries. Alkydol Laboratories, Inc., Cicero, Ill.
Filed June 26, 1950, Serial No. 599,739. Published Jan. 1, 1952. Class 6.

556,271. Germicidal Emollient Used as a Pre-Operative Scrub. White Laboratories, Inc., Newark, N. J.
Filed July 7, 1950, Serial No. 600,365. Published Nov. 20, 1951. Class 18.

556,272. Shampoo, a Conditioning Shampoo, a Conditioning Shampoo With Essential Oils, a Shampoo Tint, and a Shampoo Tint in Various Colors. Rapidol Distributing Corporation, New Hyde Park, N. Y.
Filed July 10, 1950, Serial No. 600,445. Published Dec. 25, 1951. Class 52.

556,273. Propellers for Ships. Naamloose Vennootschap 'S-Hertogenbossche Schroevengieterij M. Lips, Drunen, Netherlands.
Filed July 11, 1950, Serial No. 600,503. Published Dec. 4, 1951. Class 19.

556,274. Synthetic Liquid Detergent for Mopping Floors. Grace-Lee Products Inc., Minneapolis, Minn.
Filed July 14, 1950, Serial No. 600,667. Published Dec. 25, 1951. Class 52.

556,275. Disinfectants, Insecticides, Fungicides, Mothproofing Preparations, Plant Protecting Preparations, Dyes, Dyeing Assistants, Textile Treating Preparations, Artificial Tanning Agents. Cilag Aktiengesellschaft, Schaffhausen, Switzerland.
Filed July 18, 1950, Serial No. 600,816. Published Dec. 25, 1951. Class 6.

556,276. Disinfectants, Insecticides, Fungicides, Mothproofing Preparations, Plant Protecting Preparations, Dyes, Dyeing Assistants, Textile Treating Preparations, Artificial Tanning Agents. Cilag Aktiengesellschaft, Schaffhausen, Switzerland.
Filed July 18, 1950, Serial No. 600,818. Published Dec. 25, 1951. Class 6.

556,277. Outer Clothing for Girls, Subteens and Teens—Namely, Coats and Suits. Pledgewear, Incorporated, St. Louis, Mo.
Filed July 19, 1950, Serial No. 600,913. Published Dec. 11, 1951. Class 39.

556,278. Solutions Used To Detect Surface Flaws—Namely, Flaw Penetrant Solutions, Solvent Solutions, and Developer Solutions. Northrop Aircraft, Inc., doing business as Dy-Chek Company, Hawthorne, Calif.
Filed July 21, 1950, Serial No. 601,071. Published Jan. 1, 1952. Class 6.

556,279. Hand Trucks. Sidney D. Lapham, Martinez, Calif.
Filed July 24, 1950, Serial No. 601,152. Published Dec. 25, 1951. Class 19.

556,280. Lubricating Oil. Bodie-Hoover Petroleum Corporation, Chicago, Ill.
Filed July 27, 1950, Serial No. 601,299. Published Nov. 13, 1951. Class 15.

556,281. Canned Fish. Mondial Company, Inc., also doing business under the trade-name and style of "Arocna," New York, N. Y.
Filed July 28, 1950, Serial No. 601,366. Published Jan. 1, 1952. Class 46.

556,282. Lubricating Oil. Robert W. Fulton, Minneapolis, Minn.
Filed Aug. 3, 1950, Serial No. 601,668. Published Nov. 13, 1951. Class 15.

556,283. Petroleum Oils, Essences, and Greases Used for Wire-Drawing From Steel and Other Metals and for the Stretching of Tubes of Steel and Other Materials. Societe Normande De Produits Chimiques, Paris, France.
Filed Aug. 4, 1950, Serial No. 601,759. Published Nov. 13, 1951. Class 15.

556,284. Chemicals and Chemical Preparations—Namely, Salicylic Acid, Etc. Heyden Chemical Corporation, New York, N. Y.
Filed Aug. 8, 1950, Serial No. 601,913. Published Nov. 13, 1951. Class 6.

556,285. Diphenol-Containing Preparation for Controlling Internal Parasites in Poultry and Livestock. The Dow Chemical Company, Midland, Mich.
Filed Aug. 10, 1950, Serial No. 602,026. Published Oct. 9, 1951. Class 18.

556,286. Suppositories for Rectal Use for the Treatment of Coughs and Colds. Nadeau Laboratory Limited, Montreal, Quebec, Canada.
Filed Aug. 16, 1950, Serial No. 602,279. Published Oct. 30, 1951. Class 18.

556,287. Chemical Products Produced From Waste Sulphite Liquor and Consisting Wholly or Partially of Lignin Compounds. Wargöns Aktiebolag, Vargon, Sweden.
Filed Aug. 17, 1950, Serial No. 602,351. Published Dec. 25, 1951. Class 6.

556,288. Organic Acid Obtained by Ion Exchange From the Salt Formed in Reacting Redwood Bark With Sodium Hydroxide. The Pacific Lumber Company, San Francisco, Calif.
Filed Aug. 21, 1950, Serial No. 602,518. Published Nov. 20, 1951. Class 6.

556,289. Organic Acid Group Obtained by Ion Exchange From the Salt Formed in Reacting Redwood Bark With Sodium Sulphite. The Pacific Lumber Company, San Francisco, Calif.
Filed Aug. 21, 1950, Serial No. 602,519. Published Nov. 20, 1951. Class 6.

556,290. Sodium Salt Formed by Reacting Redwood Bark With Sodium Hydroxide. The Pacific Lumber Company, San Francisco, Calif.
Filed Aug. 21, 1950, Serial No. 602,520. Published Nov. 20, 1951. Class 6.

556,291. Sodium Salt Formed by Reacting Redwood Bark With Sodium Sulphite. The Pacific Lumber Company, San Francisco, Calif.
Filed Aug. 21, 1950, Serial No. 602,521. Published Nov. 20, 1951. Class 6.

556,292. Wrenches. Walworth Company, Boston, Mass.
Filed Aug. 2, 1950, Serial No. 602,535. Published Apr. 17, 1951. Class 23.

556,293. Polyvinyl Acetate Emulsion Sold in Bulk in Barrels or Like Containers, for General Use in the Industrial Arts. The Special Chemicals Company, Cleveland, Ohio.
Filed Sept. 5, 1950, Serial No. 603,169. Published Nov. 27, 1951. Class 6.

556,294. Watches, Clocks, Chronometers, and Parts Thereof. Compagnie Electro-Mecanique, Paris, France, assignor to Jax S. A., Paris, France.
Filed Sept. 6, 1950, Serial No. 603,183. Published Sept. 25, 1951. Class 27.

556,295. Skin Protective Cream. The Janalyn Laboratories, Inc., Worcester, Mass.
Filed Sept. 6, 1950, Serial No. 603,194. Published Nov. 20, 1951. Class 51.

556,296. Chemical Preparation Which, When Brushed or Sprayed on Surfaces, Changes Colour on Change in Temperature of the Surface. Synthetic & Industrial Finishes Limited, Watford, England.
Filed Sept. 6, 1950, Serial No. 603,210. Published Dec. 25, 1951. Class 6.

556,297. Dolly Casters. The Smash-Proof Company, also doing business as Hulbert Manufacturing Company, Ashtabula, Ohio.
Filed Sept. 8, 1950, Serial No. 603,295. Published Dec. 25, 1951. Class 19.

556,298. Surgical Splints. Leroy J. Larson, Bagley, Minn.
Filed Sept. 8, 1950, Serial No. 603,302. Published Dec. 18, 1951. Class 44.

556,299. Motor Oil and Lubricating Greases. Shell Oil Company, New York, N. Y.
Filed Sept. 15, 1950, Serial No. 603,600. Published Nov. 13, 1951. Class 15.

556,300. Chemical Auxiliary Products for the Textile Industry—Namely, Thickening Substances, Dressing and Sizing Agents. Meypro Ltd., Weinfelden, Switzerland.
Filed Sept. 16, 1950, Serial No. 603,637. Published Dec. 25, 1951. Class 6.

556,301. Chemical Auxiliary Products for the Textile Industry—Namely, Thickening Substances, Dressing and Sizing Agents. Meypro Ltd., Weinfelden, Switzerland.
Filed Sept. 16, 1950, Serial No. 603,638. Published Nov. 20, 1951. Class 6.

556,302. Chemical Auxiliary Products for the Textile Industry—Namely, Thickening Substances, Dressing and Sizing Agents. Meypro Ltd., Weinfelden, Switzerland.
Filed Sept. 16, 1950, Serial No. 603,639. Published Nov. 20, 1951. Class 6.

556,303. Antileprotic Preparation. E. R. Squibb & Sons, New York, N. Y.
Filed Sept. 16, 1950, Serial No. 603,651. Published Nov. 13, 1951. Class 18.

556,304. Antispastic Preparation. E. R. Squibb & Sons, New York, N. Y.
Filed Sept. 16, 1950, Serial No. 603,652. Published Nov. 13, 1951. Class 18.

556,305. Fabrics-In-The-Piece Made of Wool and Synthetic Fibers. Grandma Moses Properties, Inc., New York, N. Y.
Filed Sept. 23, 1950, Serial No. 603,923. Published Dec. 25, 1951. Class 42.

556,306. Solid Fuel Cooking and Heating Stoves and Ranges. Caloric Stove Corporation, Philadelphia, Pa.
Filed Sept. 26, 1950, Serial No. 603,984. Published Nov. 27, 1951. Class 34.

556,307. Emulsifying Agents and Surface Active Agents More Particularly of the Nonionic Type for Agricultural Sprays. Alrose Chemical Company, Cranston, R. I.
Filed Oct. 25, 1950, Serial No. 605,393. Published Dec. 25, 1951. Class 6.

556,308. Surface Active Agents More Particularly of the Alkyl Aryl Sulfonate Type and Possessing Dispersing, Wetting, Rewetting, and Emulsifying Properties. Alrose Chemical Company, Cranston, R. I.
Filed Oct. 25, 1950, Serial No. 605,397. Published Dec. 25, 1951. Class 6.

556,309. Shaving Cream. Dyna-Shave, Inc., Chicago, Ill.
Filed Oct. 27, 1950, Serial No. 605,471. Published Nov. 27, 1951. Class 51.

556,310. Clothes Line Tightener. Bernard A. Reemtsma, Garner, Iowa.
Filed Oct. 26, 1950, Serial No. 605,530. Published Dec. 25, 1951. Class 24.

556,311. Men's and Boys' Work Clothes, Consisting of Pants, Shirts, Overalls, Jackets, Slacks. Henry I. Siegel Co. Inc., New York, N. Y.
Filed Oct. 26, 1950, Serial No. 605,536. Published Dec. 25, 1951. Class 39.

556,312. Exit Bolts, Panic Proof Exit Locks, and Panic Exit Devices. Independent Lock Company, Fitchburg, Mass.
Filed Nov. 10, 1950, Serial No. 606,222. Published Dec. 25, 1951. Class 25.

556,313. Horse Boots, Horse Saddles, Horse Blankets, and Racing Harness and Show Harness. The Ohio Leather and Horse Goods Company, Cleveland, Ohio.
Filed Nov. 13, 1950, Serial No. 606,317. Published Dec. 25, 1951. Class 3.

556,314. Scalp Ointment. Hair Bon Laboratories, Inc., Providence, R. I.
Filed Nov. 22, 1950, Serial No. 606,773. Published Nov. 20, 1951. Class 18.

556,315. Water Softening Agent. Fulbright Laboratories, Inc., Charlotte, N. C.
Filed Nov. 28, 1950, Serial No. 607,012. Published Nov. 27, 1951. Class 6.

556,316. Potassium-Bearing Soil Amender for Use as Tobacco Soil Enrichment. H. E. Fletcher Co., West Chelmsford, Mass.
Filed Nov. 29, 1950, Serial No. 607,077. Published Dec. 25, 1951. Class 10.

556,317. Rapid Heating Furnaces. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y.
Filed Nov. 29, 1950, Serial No. 607,080. Published Nov. 27, 1951. Class 34.

556,318. Ornamental Candles. Della and Claire Dixon, Missoula, Mont.
Filed Dec. 6, 1950, Serial No. 607,318. Published Nov. 13, 1951. Class 15.

556,319. Pharmaceutical Preparation Used Therapeutically in the Treatment of Dermatological Diseases, Cardiovascular Diseases, and Diseases of the Joints. Ernst Bischoff Company, Inc., Ivoryton, Conn.
Filed Dec. 8, 1950, Serial No. 607,414. Published Oct. 30, 1951. Class 18.

556,320. Sodium. National Distillers Chemical Corporation, New York, N. Y.
Filed Dec. 9, 1950, Serial No. 607,506. Published Nov. 13, 1951. Class 6.

556,321. Children's Sweaters, Jackets, Vests, Polo Shirts, Leggings, Slacks, Skirts, Outer Shorts, Pants and Combinations Thereof. Cloverdale Knitwear Corporation, Brooklyn, N. Y.
Filed Dec. 13, 1950, Serial No. 607,619. Published Dec. 25, 1951. Class 39.

556,322. Cardiovascular Preparation. The Smith-Dorsey Company, Lincoln, Nebr., assignor to The Wander Company, Chicago, Ill., a corporation of Delaware.
Filed Dec. 16, 1950, Serial No. 607,767. Published Oct 9, 1951. Class 18.

556,323. Asphalt Tile and Cement Primer Used in Connection With the Laying of Asphalt Tile. Hachmeister-Inc., Pittsburgh, Pa.
Filed Dec. 20, 1950, Serial No. 607,898. Published Nov. 27, 1951. Class 12.

556,324. Medicinal Preparation Intended for the Temporary Relief of Muscle Pains Due to Arthritis or Myolgia. L R M Medicine Company, Augusta, Ga.
Filed Dec. 20, 1950, Serial No. 607,899. Published Oct. 9, 1951. Class 18.

556,325. Medicinal Preparation for the Treatment of Coughs, in Both Liquid Form and Tablet Form. R. J. Strasenburgh Company, Rochester, N. Y.
Filed Dec. 20, 1950, Serial No. 607,906. Published Oct. 9, 1951. Class 18.

556,326. Oil for Conditioning Cotton Fibers Before Operation Thereon by a Carding Machine. Borne Scrymser Company, Elizabeth, N. J.
Filed Dec. 22, 1950, Serial No. 607,977. Published Dec. 4, 1951. Class 15.

556,327. Coffee Brewing Urns and Parts Thereof. Star Metal Manufacturing Co., Inc., Philadelphia, Pa.
Filed Dec. 23, 1950, Serial No. 608,048. Published Nov. 27, 1951. Class 34.

556,328. Preparation Used in the Manufacture of Hormonal Parenterals in Order to Sustain or Prolong Therapeutic Effects. Organon Inc., Orange, N. J.
Filed Dec. 29, 1950, Serial No. 608,216. Published Oct. 9, 1951. Class 18.

556,329. Antiseptic, Non-Toxic Solution for Burns Caused by Fire. W. & D. Distributors, Chicago, Ill.
Filed Dec. 29, 1950, Serial No. 608,230. Published Oct. 9, 1951. Class 18.

556,330. Liquid Preparation for the Treatment of Burns. S. B. Leonardi & Co. Inc., New Rochelle, N. Y.
Filed Jan. 3, 1951, Serial No. 608,317. Published Oct. 9, 1951. Class 18.

556,331. Pajamas for Men and Boys. F. Jacobson & Sons, Inc., New York, N. Y.
Filed Jan. 4, 1951, Serial No. 608,357. Published Dec. 25, 1951. Class 39.

556,332. Vitamin Capsules. Peoples' Laboratory Service, Inc., Miami, Fla.
Filed Jan. 4, 1951, Serial No. 608,376. Published Oct. 9, 1951. Class 18.

556,333. Uniforms for Nurses, Technicians, Beauticians, Waitresses, and Domestics. Duti-Duds, Inc., Lynchburg, Va.
Filed Jan. 5, 1951, Serial No. 608,413. Published Dec. 25, 1951. Class 39.

556,334. Medical Preparation for Use in the Treatment of Dermatological Conditions. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Jan. 12, 1951, Serial No. 608,721. Published Oct. 30, 1951. Class 18.

556,335. Solution Formulated as a Prophylaxis To Fight Athlete's Foot. Waverly Petroleum Products Company, Philadelphia, Pa., assignor to Sani-Mist, Inc., Philadelphia, Pa.
Filed Jan. 12, 1951, Serial No. 608,726. Published Oct. 30, 1951. Class 18.

556,336. Football Pants, Football and Baseball Stirrup-Type Hose, Etc. Empire Sporting Goods Manufacturing Co. Inc., New York, N. Y.
Filed Jan. 18, 1951, Serial No. 608,926. Published Dec. 25, 1951. Class 39.

556,337. Children's Clothing—Namely, Sunsuits, Coveralls, Dress Shorts, Boxer Shorts, Underwear Shorts, Pants, Overalls, Caps, Jackets, Dresses, Overcoats, Slacks, Snowsuits, Leggings, Jodhpurs, Riding Breeches, Coats, Suits, and Rompers. Kingston Manufacturing Company, San Antonio, Tex.
Filed Jan. 18, 1951, Serial No. 608,935. Published Dec. 25, 1951. Class 39.

556,338. Iron, Vitamin, and Liver Fraction Compound. Ives-Cameron Company, Inc., New York, N. Y.
Filed Jan. 19, 1951, Serial No. 608,993. Published Oct. 30, 1951. Class 18.

556,339. Boys' Clothing, Consisting of Jeans, Overalls, Pants, Dungarees, Cowboy Pants, Jackets, and Trousers. Oklahoma Clothing Manufacturers, Oklahoma City, Okla.
Filed Jan. 20, 1951, Serial No. 609,044. Published Dec. 25, 1951. Class 39.

556,340. Children's Panties. Capitol Undergarment Co., Inc., New York, N. Y.
Filed Jan. 22, 1951, Serial No. 609,072. Published Dec. 25, 1951. Class 39.

556,341. Rodent Poisons. Rocon, Inc., Denver, Colo.
Filed Jan. 22, 1951, Serial No. 609,102. Published Nov. 20, 1951. Class 6.

556,342. Men's Suits, Trousers, Jackets, and Top Coats; and Women's Dresses, Suits, Slacks, Jackets, and Coats. United Surplus Associates, New York, N. Y.
Filed Jan. 22, 1951, Serial No. 609,110. Published Dec. 25, 1951. Class 39.

556,343. Fresh Vegetables. King Maljan & Company, El Centro, Calif.
Filed Jan. 23, 1951, Serial No. 609,134. Published Dec. 25, 1951. Class 46.

556,344. Diuretic. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,204. Published Oct. 30, 1951. Class 18.

556,345. Work Pants, Work Trousers, Work Shirts, and Work Coveralls. Brooks-Weisberg Co., Los Angeles, Calif.
Filed Jan. 26, 1951, Serial No. 609,279. Published Nov. 6, 1951. Class 39.

556,346. Motor Boats and Structural Parts Thereof. Phyllis E. Watkins, doing business under the name and style of Victor E. Watkins Company, Holland, Mich.
Filed Jan. 27, 1951, Serial No. 609,349. Published Dec. 11, 1951. Class 19.

556,347. Aerosol Insecticide. Virginia Smelting Company, West Norfolk, Va.
Filed Jan. 29, 1951, Serial No. 609,385. Published Nov. 13, 1951. Class 6.

556,348. Solution for Cleaning Needles on Full Fashioned Knitting Machines. Jay H. Quinn, doing business as Reading Testing Laboratories, Reading, Pa.
Filed Jan. 30, 1951, Serial No. 609,417. Published Dec. 25, 1951. Class 52.

556,349. Waterproof Fabrics of Cotton, Wool, and Synthetic Fibers and Plastic Film for Making Into Raincoats, Weight Reducing Garments, and the Like. Whitewater Raincoat Company, Whitewater, Wis.
Filed Feb. 3, 1951, Serial No. 609,618. Published Jan. 1, 1952. Class 42.

556,350. Cream Lotion, Bath Oil, Body Powders, Bath Salts, Sachet Powders, Perfume, Toilet Water, and Cologne. Avon Products, Inc., New York, N. Y.
Filed Feb. 8, 1951, Serial No. 609,775. Published Nov. 13, 1951. Class 51.

556,351. Fabrics of Cotton, Wool, or Synthetic Fibers and Combinations Thereof. Glen Raven Cotton Mills, Inc., Glen Raven, N. C.
Filed Feb. 8, 1951, Serial No. 609,796. Published Jan. 1, 1952. Class 42.

556,352. Preparation for Producing Muscular Relaxation. Winthrop-Stearns Inc., New York, N. Y.
Filed Feb. 13, 1951, Serial No. 610,038. Published Nov. 13, 1951. Class 18.

556,353. Spasmolytic Drug. Winthrop-Stearns Inc., New York, N. Y.
Filed Feb. 15, 1951, Serial No. 610,155. Published Nov. 13, 1951. Class 18.

556,354. Organic Chemicals—Namely, Acetals, Acid Anhydrides, Etc. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y.
Filed Feb. 17, 1951, Serial No. 610,206. Published Dec. 25, 1951. Class 6.

556,355. Boats. Southwest Manufacturing Company, Little Rock, Ark.
Filed Feb. 19, 1951, Serial No. 610,300. Published Dec. 25, 1951. Class 19.

556,356. Mite Control Material Containing p-Chlorophenyl Phenyl Sulfone. Stauffer Chemical Company, San Francisco, Calif.
Filed Feb. 20, 1951, Serial No. 610,344. Published Nov. 20, 1951. Class 6.

556,357. Men's Coats, Vests, Pants, Overcoats, Top Coats, Tuxedos, Dress Suits, Slacks, Outer and Under Shirts, Underwear, Socks and Neckties, and Women's Suits, Top Coats, Overcoats, Blouses, Dresses, Hosiery, and Shoes. Weber and Heilbroner, Inc., New York, N. Y.
Filed Feb. 20, 1951, Serial No. 610,348. Published Dec. 25, 1951. Class 39.

556,358. Wool Fabrics in the Piece. Miron Mills, Inc., Clinton, Mass.
Filed Feb. 23, 1951, Serial No. 610,448. Published Jan. 1, 1952. Class 42.

556,359. Wool Hooked Rugs. The Associated Merchandising Corporation, New York, N. Y.
Filed Feb. 24, 1951, Serial No. 610,488. Published Jan. 1, 1952. Class 42.

556,360. Linen Piece Goods. Robert McBratney & Company, Incorporated, New York, N. Y.
Filed Feb. 27, 1951, Serial No. 610,570. Published Jan. 1, 1952. Class 42.

556,361. Aircraft of the Heavier Than Air Type. Gyrodyne Company of America, Inc., New York, N. Y.
Filed Feb. 28, 1951, Serial No. 610,621. Published Dec. 25, 1951. Class 19.

556,362. Bottled Propane and Butane Gas. Ted Bergman, Miami, Fla.
Filed Mar. 2, 1951, Serial No. 610,734. Published Nov. 20, 1951. Class 6.

556,363. Medical Eye Drops. Carlos C. Marroquin, doing business under the name of Nova Laboratories, San Antonio, Tex.
Filed Mar. 2, 1951, Serial No. 610,751. Published Nov. 13, 1951. Class 18.

556,364. Fabrics in the Piece Woven of Silk, Cotton, Wool, Nylon, Rayon, Glass, or Protein Fibres or Mixtures Thereof. Jack Davis, New York, N. Y.
Filed Mar. 3, 1951, Serial No. 610,781. Published Jan. 1, 1952. Class 42.

556,365. Uniforms for Nurses, Maids and Waitresses. Irving Brooks, doing business as Brooks Uniform Co., Dallas, Tex.
Filed Mar. 5, 1951, Serial No. 610,822. Published Dec. 25, 1951. Class 39.

556,366. Fabrics of Synthetic Fibers. Sheraton Mills, Inc., New York, N. Y.
Filed Mar. 5, 1951, Serial No. 610,867. Published Jan. 1, 1952. Class 42.

556,367. Toilet Soap. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Mar. 6, 1951, Serial No. 610,889. Published Nov. 20, 1951. Class 52.

556,368. Toilet Soap. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Mar. 6, 1951, Serial No. 610,890. Published Nov. 20, 1951. Class 52.

556,369. Fabric of Synthetic Fibres, Sold in the Piece. Hollywood Textile Converters, Los Angeles, Calif.
Filed Mar. 6, 1951, Serial No. 610,905. Published Jan. 1, 1952. Class 42.

556,370. Chemicals and Chemical Compositions for Use in Treating Textiles to Improve or Modify the Characteristics Thereof Including the Fixation of Color. Monsanto Chemical Company, St. Louis, Mo.
Filed Mar. 9, 1951, Serial No. 611,100. Published Nov. 20, 1951. Class 6.

556,371. Chemicals and Chemical Compositions for Use in Treating Textiles to Improve or Modify the Characteristics Thereof Including the Fixation of Color. Monsanto Chemical Company, St. Louis, Mo.
Filed Mar. 9, 1951, Serial No. 611,101. Published Nov. 13, 1951. Class 6.

556,372. Men's Clothing—Namely, Suits, Trousers, Coats, and Topcoats. Joseph H. Cohen & Sons, Inc., New York, N. Y.
Filed Mar. 14, 1951, Serial No. 611,260. Published Dec. 25, 1951. Class 39.

556,373. Carbon Compounding Material Used Principally as a Filler in Rubber or in Synthetic Rubber. Phillips Chemical Company, Bartlesville, Okla.
Filed Mar. 15, 1951, Serial No. 611,369. Published Nov. 20, 1951. Class 6.

556,374. Economic Poisonous Composition, Etc. Fungitrol Chemicals Incorporated, Hillside, N. J.
Filed Mar. 16, 1951, Serial No. 611,419. Published Nov. 20, 1951. Class 6.

556,375. Gingham Piece Goods Composed of Cotton and Rayon. Dan River Mills, Incorporated, Danville, Va.
Filed Mar. 20, 1951, Serial No. 611,563. Published Jan. 1, 1952. Class 42.

556,376. Carbon Black for Use in the Plastic, Paper, and Other Miscellaneous Industries. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Mar. 21, 1951, Serial No. 611,598. Published Nov. 13, 1951. Class 6.

556,377. Medicinal Preparation for the Treatment of Spastic Conditions of the Gastrointestinal Tract. The Maltine Company, Morris Plains, N. J.
Filed Mar. 21, 1951, Serial No. 611,611. Published Nov. 13, 1951. Class 18.

556,378. Overhead Retractable Garage Doors. Morrison Steel Products Inc., Buffalo, N. Y.
Filed Mar. 23, 1951, Serial No. 611,713. Published Nov. 27, 1951. Class 12.

556,379. Liniment. Jarrett Skinner, Flint, Mich.
Filed Mar. 23, 1951, Serial No. 611,726. Published Nov. 13, 1951. Class 18.

556,380. Acoustical Tile Made Largely From Fibre Glass. Certain-Teed Products Corporation, Ardmore, Pa.
Filed Mar. 26, 1951, Serial No. 611,739. Published Nov. 27, 1951. Class 12.

556,381. Men's Clothing—Namely, Coats, Top Coats, and Suits. Eagle Clothes, Inc., New York, N. Y.
Filed Mar. 26, 1951, Serial No. 611,777. Published Dec. 25, 1951. Class 39.

556,382. Business History Charts and Compilations Thereof. Investographs, Rochester, N. Y.
Filed Mar. 28, 1951, Serial No. 611,900. Published Dec. 11, 1951. Class 38.

556,383. Control Switches for Electrical Current. Kilowattcher Corporation, Chicago, Ill.
Filed Mar. 29, 1951, Serial No. 611,958. Published Dec. 18, 1951. Class 21.

556,384. Medicial Preparation—Namely, a Brand of Sodium Salicylate and p-Aminobensoic Acid Enteric Coated Tablet for Treatment of Arthritic Conditions. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Mar. 29, 1951, Serial No. 611,965. Published Nov. 20, 1951. Class 18.

556,385. Canned Vegetables, Canned Fruits, Canned Fruit Juice, Etc. Associated Grocers' Company of St. Louis, Missouri, St. Louis, Mo.
Filed Mar. 30, 1951, Serial No. 611,995. Published Dec. 4, 1951. Class 46.

556,386. Acid Resistant Silicate Cement Used To Join Bricks. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed Mar. 30, 1951, Serial No. 611,996. Published Nov. 27, 1951. Class 12.

556,387. Hosiery, for Men, Women, and Children. Adams-Mills Corporation, High Point, N. C.
Filed Apr. 3, 1951, Serial No. 612,148. Published Dec. 18, 1951. Class 39.

556,388. Liquid for Removing Paraffin From Histological Tissue Specimens. Technicon Chemical Company, Inc., New York, N. Y.
Filed Apr. 3, 1951, Serial No. 612,185. Published Nov. 27, 1951. Class 6.

556,389. Ladies' Hosiery. Valcort Hosiery Corporation, New York, N. Y.
Filed Apr. 3, 1951, Serial No. 612,188. Published Dec. 18, 1951. Class 39.

556,390. Storm Sash for Permanent Mounting and Sealing on Windows. Aluminum Fabricating Company of Pittsburgh, Pittsburgh, Pa.
Filed Apr. 5, 1951, Serial No. 612,234. Published Nov. 27, 1951. Class 12.

556,391. Inactive Dry Yeast. Red Star Yeast and Products Company, Milwaukee, Wis.
Filed Apr. 5, 1951, Serial No. 612,273. Published Dec. 4, 1951. Class 46.

556,392. Liquid Preparations for Application to Textiles To Render Them Fire Retardant. Scientific Solutions, Inc., West Palm Beach, Fla.
Filed Apr. 7, 1951, Serial No. 612,376. Published Nov. 27, 1951. Class 6.

556,393. Cellulose Ethers. American Viscose Corporation, Philadelphia, Pa.
Filed Apr. 14, 1951, Serial No. 612,645. Published Nov. 27, 1951. Class 6.

556,394. Fresh Tomatoes. James P. Hobbs, Niland, Calif.
Filed Apr. 16, 1951, Serial No. 612,691. Published Dec. 4, 1951. Class 46.

556,395. Candy. The Folly Town Company, Chicago, Ill.
Filed Apr. 18, 1951, Serial No. 612,799. Published Dec. 4, 1951. Class 46.

556,396. Dungarees for Men, Women, Misses, Boys, and Children. W. E. Stephens Mfg. Co., Inc., Nashville, Tenn.
Filed Apr. 20, 1951, Serial No. 612,935. Published Dec. 25, 1951. Class 39.

556,397. Wallets, Utility Bags, and Cosmetic Bags. A. J. Siris Products Corp., New York, N. Y.
Filed Apr. 23, 1951, Serial No. 613,026. Published Dec. 25, 1951. Class 3.

556,398. Colloidal Wax and/or Colloidal Wax-Resin Sizing and Finishing Material. Hercules Powder Company, Wilmington, Del.
Filed Apr. 25, 1951, Serial No. 613,129. Published Dec. 25, 1951. Class 6.

556,399. Butane and Propane Gas. Flamo Gas Company. Billings, Mont.
Filed Apr. 26, 1951, Serial No. 613,166. Published Dec. 25, 1951. Class 6.

556,400. Ricinoleic Acid Derivatives and Blends Containing Same Which Are Used as and in Hydraulic Fluids. The Baker Castor Oil Company, Jersey City, N. J.
Filed May 1, 1951, Serial No. 613,359. Published Dec. 25, 1951. Class 6.

556,401. Chlorine, Caustic Soda, Caustic Potash, Carbonate of Potash, Paradichlorobenzene, and Trichlorethylene. Niagara Alkali Company, Niagara Falls, N. Y.
Filed May 1, 1951, Serial No. 613,379. Published Dec. 25, 1951. Class 6.

556,402. Fatty Acids Produced From Hydrogenated Fats and/or Oils. Darling & Company, Chicago, Ill.
Filed May 2, 1951, Serial No. 613,400. Published Dec. 25, 1951. Class 6.

556,403. Mixture of Liquid Lanolin Alcohols. Robinson-Wagner Co., Inc., New York, N. Y.
Filed May 3, 1951, Serial No. 613,477. Published Dec. 25, 1951. Class 6.

556,404. Chemical Compositions—Namely, Polyvinylpyrrolidone in Liquid and Powder Form. West Laboratories, Inc., Long Island City, N. Y.
Filed May 4, 1951, Serial No. 613,541. Published Dec. 25, 1951. Class 6.

556,405. Chemical Compositions—Namely, Iodinated Polyethyleneoxidearyl Condensate With Excess Iodine in Liquid and Solid Form. West Laboratories, Inc., Long Island City, N. Y.
Filed May 4, 1951, Serial No. 613,545. Published Dec. 25, 1951. Class 6.

556,406. Chemical Compositions—Namely, Polyvinylpyrrolidone Iodinate With Excess Iodine in Liquid and Powder Form. West Laboratories, Inc., Long Island City, N. Y.
Filed May 4, 1951, Serial No. 613,547. Published Dec. 25, 1951. Class 6.

556,407. Chemicals Used for Accelerating the Vulcanization of Rubber, Etc. Alco Oil and Chemical Corp., Philadelphia, Pa.
Filed May 16, 1951, Serial No. 613,891. Published Dec. 25, 1951. Class 6.

556,408. Aerosol Insecticide Spray. Stalfort Pressure-Pak, Inc., Baltimore, Md.
Filed May 25, 1951, Serial No. 614,368. Published Dec. 25, 1951. Class 6.

556,409. Lawn Fertilizer. Mock Seed Company, Pittsburgh, Pa.
Filed May 31, 1951, Serial No. 614,563. Published Dec. 25, 1951. Class 10.

556,410. Liquid Sulfur Dioxide. Virginia Smelting Company, West Norfolk, Va.
Filed May 31, 1951, Serial No. 614,589. Published Dec. 25, 1951. Class 6.

556,411. Greenhouse Heaters. The Stockport Distributing Company (Mail Order) Limited, Stockport, England.
Filed June 4, 1951, Serial No. 614,731. Published Jan. 1, 1952. Class 34.

556,412. Blowtorches and Firepots. Clayton & Lambert Manufacturing Company, Louisville, Ky.
Filed June 25, 1951, Serial No. 615,626. Published Nov. 27, 1951. Class 34.

556,413. Conversion Burner Units for Liquid-Fuel Firepots. Clayton & Lambert Manufacturing Company, Louisville, Ky.
Filed June 27, 1951, Serial No. 615,756. Published Dec. 4, 1951. Class 34.

556,414. Woven Elastic Fabrics in the Piece. Rayflex Fabrics, Inc., New York, N. Y.
Filed July 26, 1951, Serial No. 616,967. Published Jan. 1, 1952. Class 42.

556,415. Dolls. Ideal Toy Corporation, Hollis, N. Y.
Filed Aug. 9, 1951, Serial No. 617,499. Published Dec. 25, 1951. Class 22.

556,416. Antibiotic Preparations, Possessing the Characteristic of Liberating Therapeutic Concentrations Over Prolonged Periods. Merck & Co., Inc., Rahway, N. J.
Filed Aug. 9, 1951, Serial No. 617,509. Published Nov. 13, 1951. Class 18.

Service Marks

556,417. Entertainment Services Through the Medium of Radio and Television Broadcasts of Comedy Programs. Edward H. Ford, New York, N. Y.
Filed Oct. 10, 1947, Serial No. 537,443. Published Jan. 1, 1952. Class 107.

556,418. Installation, Calibration, Adjustment, Repair, Inspection, and Maintenance of Measurement and Control Equipment—Namely, Gas and Liquid Meters, Gauges, Flow Control Instruments and Regulators. Westcott & Greis, Inc., Tulsa, Okla.
Filed Nov. 18, 1947, Serial No. 541,619. Published Jan. 1, 1952. Class 103.

556,419. Installation, Calibration, Adjustment, Repair, Inspection, and Maintenance of Measurement and Control Equipment—Namely, Gas and Liquid Meters, Gauges, Flow Control Instruments, and Regulators. Westcott & Greis, Inc., Tulsa, Okla.
Filed Nov. 18, 1947, Serial No. 541,620. Published Dec. 25, 1951. Class 103.

556,420. Maintenance of Tools for Applying Industrial Pressure Clamps. Band-It Company, Denver, Colo.
Filed Mar. 19, 1948, Serial No. 552,414. Published Jan. 1, 1952. Class 103.

556,421. Fabrication of Concrete Floors in the Erection of Permanent Building Structures. General Floor Company Incorporated, New York, N. Y.
Filed July 28, 1948, Serial No. 562,356. Published Jan. 1, 1952. Class 103.

556,422. Telephone Answering Service to Dentists. Solomon S. Schiller, doing business as Brooklyn Telephone Answering Service, Brooklyn, N. Y.
Filed Nov. 10, 1948, Serial No. 568,338. Published Jan. 1, 1952. Class 101.

556,423. Promotional Advertising Services—Namely, Promoting the Sale of Goods and Services of Others, Etc. Treasure Island, Inc., Cleveland, Ohio.
Filed Aug. 27, 1949, Serial No. 584,171. Published Jan. 1, 1952. Class 101.

556,424. Engineering Services—Namely, Mechanical and Thermal Engineering Services. American Hydrotherm Corp., New York, N. Y.
Filed Apr. 14, 1950, Serial No. 595,701. Published Jan. 1, 1952. Class 100.

556,425. Investment Banking—Namely, Originating and Underwriting of Securities; Stock Brokerage and Acting as Custodian of Securities for Clients. American Securities Corporation, New York, N. Y., Chicago, Ill., and Boston, Mass.
Filed May 13, 1950, Serial No. 597,375. Published Jan. 1, 1952. Class 102.

556,426. Advertising the Goods of Others in Retail Stores Through the Medium of Radio Program Broadcasts of Music and Commercial Announcements. Storecast Corporation of America, New York, N. Y.
Filed June 5, 1950, Serial No. 599,298. Published Jan. 1, 1952. Class 101.

556,427. Railroad Passenger and Freight Transportation Service. Minneapolis, St. Paul & Sault Ste. Marie Railroad Company, Minneapolis, Minn.
Filed July 7, 1950, Serial No. 600,345. Published Jan. 1, 1952. Class 105.

556,428. Advertising Services, Such Services Employing Personal Visits to Newcomers in the Community by a Representative of the Service Organization and the Presentation of Gift Certificates From the Sales Organization Using the Service. Friendly Neighbor Service, Inc., Falls Church, Va., and District of Columbia.
Filed Oct. 3, 1950, Serial No. 604,362. Published Jan. 1, 1952. Class 101.

556,429. Services as Insurance Agent, Both General and Special, Insurance Broker, and Insurance Loss Adjuster. Kinkade & Company Inc., Boston, Mass.
Filed Dec. 29, 1950, Serial No. 608,208. Published Jan. 1, 1952. Class 102.

556,430. Advertising of Sponsor's Goods and Services Through the Medium of a Radio Program. International Broadcasting Corporation, Shreveport, La.
Filed Jan. 10, 1951, Serial No. 608,607. Published Jan. 1, 1952. Class 101.

Collective Marks

556,431. Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership therein and Furthering the Civic and Educational Ideals Thereof. The Chi Phi Fraternity, Atlanta, Ga.
Filed Mar. 23, 1950, Serial No. 596,262. Published Jan. 1, 1952. Class 100.

556,432. Investigative and Information Services Relative to Business and Trade Practices, Etc. Association of Better Business Bureaus, Inc., New York, N. Y.
Filed June 1, 1950, Serial No. 598,411. Published Jan. 1, 1952. Class 101.

556,433. Linen Piece Goods. Defense Committee for the Flax and Linen Industry in Belgium, Tielt, Belgium.
Filed July 29, 1950, Serial No. 601,426. Published Jan. 1, 1952. Class 42.

556,434. Plywood. Douglas Fir Plywood Association, Tacoma, Wash.
Filed Nov. 3, 1950, Serial No. 605,849. Published Dec. 18, 1951. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

556,435. (Class 46. Foods and Ingredients of Foods.) The Manhattan Pickle Co., Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 25, 1949; amended to application, Supplemental Register, Jan. 9, 1952, Serial No. 588,305.

PEEL-IT

For Pickles.
Claims use since Nov. 16, 1949.

556,436. (Class 46. Foods and Ingredients of Foods.) J. Hungerford Smith Co., Rochester, N. Y. Original filed, act of 1946, Principal Register, Dec. 3, 1949; amended to application, Supplemental Register, Nov. 15, 1951, Serial No. 588,762.

HUMBOLDT

For Liquid Flavoring Consisting of Ground Strawberries and Sugar Used in Making Ice Cream.
Claims use since May 10, 1948.

556,437. (Class 6. Chemicals and Chemical Compositions.) National Package Drugs, Inc., St. Louis, Mo. Original filed, act of 1946, Principal Register, Dec. 14, 1949; amended to application, Supplemental Register, Jan. 4, 1951, Serial No. 589,328.

SUPER SPRAY

For Insecticide.
Claims use since Dec. 8, 1949.

556,438. (Class 46. Foods and Ingredients of Foods.) Curt Michaelis, New York, N. Y.; Beatrice Y. Michaelis, Wehawken, N. J., and Aaron Lasser, Newark, N. J., executors of said Curt Michaelis, deceased, assignors to Basic Foods, Inc., a corporation of New York. Original filed, act of 1946, Principal Register, Jan. 28, 1950; amended to application, Supplemental Register, Dec. 29, 1951, Serial No. 591,634.

FLUFY-FILL

For Cream Filling for Cakes.
Claims use since May 12, 1947.

556,439. (Class 18. Medicines and Pharmaceutical Preparations.) Tolmie Stock Preparations Co., Inc., Geneva, N. Y. Original filed, act of 1946, Principal Register, Feb. 24, 1950; amended to application, Supplemental Register, Sept. 20, 1951, Serial No. 593,025.

Tolmie STOCK SPECIALS TSPco.

For General Tonic for Cattle for Use as a Conditioner, System Regulator and Blood Purifier.
Claims use since Oct. 27, 1949.

556,440. (Class 32. Furniture and Upholstery.) Memphis Furniture Manufacturing Company, Memphis, Tenn. Original filed, act of 1946, Principal Register, Mar. 1, 1950; amended to application, Supplemental Register, Apr. 4, 1951, Serial No. 593,232.

TRU-GRAIN

For Furniture—Namely, Beds, Chests, Vanities, Dressers, Chifforobes, Breakfast Tables, Buffets, End Tables, Lamp Tables, Cocktail Tables, Night Stands and Benches.
Claims use since Dec. 15, 1949.

556,441. (Class 46. Foods and Ingredients of Foods.) Martha Washington Candies Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Mar. 10, 1950; amended to application, Supplemental Register, June 19, 1951, Serial No. 593,760.

Mother of American Candies

Applicant claims ownership of Registration No. 272,681.
For Candies.
Claims use since Nov. 15, 1928.

556,442. (Class 4. Abrasives and Polishing Materials.) Silvaplate Corporation, doing business under the name Little Grey Gift Shop, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 22, 1950; amended to application, Supplemental Register, July 20, 1951, Serial No. 596,200.

Silvaplate

For Silver-Plating Liquid Polish for Polishing and Replating Sheffield Silver and Metals of Brass, Copper, Bronze and Nickel-Silver.
Claims use since Mar. 13, 1950.

556,443. (Class 46. Foods and Ingredients of Foods.) International Salt Company, Scranton, Pa. Original filed, act of 1946, Principal Register, Apr. 3, 1950; amended to application, Supplemental Register, July 7, 1951, Serial No. 597,859.

EV-R-SOFT

For Salt.
Claims use since Jan. 19, 1950.

556,444. (Class 49. Distilled Alcoholic Liquors.) The Crosse & Blackwell Company, Baltimore, Md. Original filed, act of 1946, Principal Register, June 8, 1950; amended to application, Supplemental Register, Dec. 14, 1951, Serial No. 598,785.

The COCKTAILER *All you need is the inclination*

For Alcoholic Beverages—Namely, Prepared Cocktails.
Claims use since Mar. 31, 1950.

556,445. (Class 52. Detergents and Soaps.) Richfield Oil Corporation, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 14, 1950; amended to application, Supplemental Register, Mar. 26, 1951, Serial No. 600,698.

RIO GRANDE

For Dry Cleaning Solvents and Motor and Gear Flushing Compounds—Namely, a Complex Liquid Mixture of Naphthenic Hydrocarbons Boiling Within the Range of 350° to 700° F., Which by Reason of Its Low Viscosity Quickly Reaches All Parts of an Automobile Engine, Transmission and Differential Gears, and Crank Case; and Which, Under Agitation, Will Pick Up All Loose Deposits and Enables Flushing Out of Same.
Claims use since Dec. 20, 1949.

556,446. (Class 2. Receptacles.) The De Vilbiss Company, Toledo, Ohio. Original filed, act of 1946, Principal Register, Aug. 10, 1950; amended to application, Supplemental Register, Oct. 6, 1951, Serial No. 602,025.

Dispensette

For Combined Rubber Suction Bulb and Plastic Tube for Transferring Perfumes, Colognes, Toilet Waters and Like Liquids From One Container to Another.
Claims use since July 14, 1950.

556,447. (Class 37. Paper and Stationery.) The Winterbottom Book Cloth Company Limited, Manchester, England. Original filed, act of 1946, Principal Register, Aug. 22, 1950; amended to application, Supplemental Register, Sept. 20, 1951, Serial No. 602,589.

"SABARS" BRAND

Applicant claims ownership of British Registration No. 503,676 dated June 13, 1929, and U. S. Registration No. 277,621.
For Tracing Cloth.

556,448. (Class 46. Foods and Ingredients of Foods.) Los Banos Produce Distributors, Los Banos, Calif. Original filed, act of 1946, Principal Register, Aug. 29, 1950; amended to application, Supplemental Register, Jan. 4, 1952, Serial No. 602,903.

DON Juan PACHECO

The name is not that of a living individual.
For Fresh Melons.
Claims use since July 28, 1950.

556,449. (Class 4. Abrasives and Polishing Materials.) S. C. Johnson & Son, Inc., Racine, Wis. Filed Sept. 9, 1950, Serial No. 603,369.

CAR sol

For Polish for Finished Metal Surfaces, Including But Not Limited to Painted, Enameled, Lacquered or Varnished Surfaces.
Claims use since June 23, 1950.

556,450. (Class 37. Paper and Stationery.) Federal Loose Leaf Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Sept. 22, 1950; amended to application, Supplemental Register, Nov. 23, 1951, Serial No. 603,881.

Super-Lok

For Loose Leaf Binders.
Claims use since Aug. 1, 1950.

556,451. (Class 2. Receptacles.) Walter L. Allyn, Fort Worth, Tex. Original filed, act of 1946, Principal Register, Oct. 30, 1950; amended to application, Supplemental Register, Dec. 17, 1951, Serial No. 605,571.

SURE SAFE

For Spooling Cards or Plates, of Plastic or Fiber, for Winding Electrical Cords Thereon.
Claims use since July 1, 1949.

556,452. (Class 46. Foods and Ingredients of Foods.) Saltwater Farm Incorporated, Damariscotta, Maine. Original filed, act of 1946, Principal Register, Nov. 2, 1950; amended to application, Supplemental Register, Dec. 20, 1951, Serial No. 605,810.

SALTWATER FARM

The word "Saltwater" is disclaimed.
For Live Seafood—Namely, Lobsters.
Claims use since May 1, 1949.

556,453. (Class 46. Foods and Ingredients of Foods.) Palm Terrace Fruit Company, Mount Dora, Fla. Original filed, act of 1946, Principal Register, Jan. 9, 1951; amended to application, Supplemental Register, Jan. 3, 1952, Serial No. 608,564.

TYRE'S PRIDE

For Fresh Citrus Fruits, Fresh Deciduous Fruits, Fresh Vegetables, Fresh Cantaloupes and Fresh Watermelons.
Claims use since December 8, 1950.

556,454. (Class 12. Construction Materials.) Childers Manufacturing Co., Houston, Texas. Original filed, act of 1946, Principal Register, Jan. 16, 1951; amended to application, Supplemental Register, Nov. 6, 1951, Serial No. 608,816.

CHILDERS

For Aluminum Products—Namely, Aluminum Roofing, Aluminum Weather-Proof Jacketing, and Aluminum Awnings.
Claims use since January 1947.

556,455. (Class 45. Soft Drinks and Carbonated Waters.) Charles William Haines, doing business under the name Larchmont Farms, Masonville, N. J. Original filed, act of 1946, Principal Register, Feb. 10, 1951; amended to application, Supplemental Register, Dec. 12, 1951, Serial No. 609,924.

Rancocas

For Apple Cider.
Claims use since November 15, 1950.

556,456. (Class 46. Foods and Ingredients of Foods.) Svend Knudsen, doing business as Reedsport Creamery & Cheese Factory, Reedsport, Oreg. Original filed, act of 1946, Principal Register, Feb. 20, 1951; amended to application, Supplemental Register, Dec. 10, 1951, Serial No. 610,323.

Reedsport

For Cheese and Butter.
Claims use since Sept. 1, 1937.

556,457. (Class 46. Foods and Ingedients of Foods.) G. P. Gundlach & Co., Inc., Cincinnati, Ohio. Original filed, act of 1946, Principal Register, May 8, 1951; amended to application, Supplemental Register, Dec. 4, 1951, Serial No. 613,636.

BUTTER-FLAKE

Applicant claims ownership of Registration No. 370,015.
For Buttermilk.
Claims use since May 1948.

556,458. (Class 46. Foods and Ingredients of Foods.) Pikle-Rite Company, Inc., Chicago, Ill., and Pulaski, Wis. Original filed, act of 1946, Principal Register, July 9, 1951; amended to application, Supplemental Register, Jan. 7, 1952, Serial No. 616,242.

RITA'S DIL-ETS

Applicant claims ownership of Registration No. 410,792.
For Bottled Dill Pickles.
Claims use since Aug. 1, 1950.

556,459. (Class 46. Foods and Ingredients of Foods.) A. E. Staley Manufacturing Company, Decatur, Ill. Original filed, act of 1946, Principal Register, July 31, 1947; amended to application, Supplemental Register, Dec. 24, 1950, Serial No. 530,130.

LO-FAT

For Soy Flour.
Claims use since Aug. 19, 1943.

556,460. (Class 45. Soft Drinks and Carbonated Waters.) Pal, Inc., Washington, D. C. Original filed, act of 1946, Principal Register, Aug. 27, 1947; amended to application, Supplemental Register, May 25, 1950, Serial No. 532,630.

Your Pals Drink PAL

For Maltless Beverages Sold as Soft Drinks and Concentrates for Making Soft Drinks.
Claims use since October 1946.

556,461. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) John Kozil, doing business under the name and style "The Home Ideas Company," Chicago, Ill. Original filed, act of 1946, Principal Register, June 2, 1948; amended to application, Supplemental Register, Feb. 27, 1951, Serial No. 558,306.

Handi-Arm

For Utility Support Bar for Attachment to Bath Shower Curtain Rods, To Hang Sundry Items Thereon to Dry.
Claims use since June 1, 1947.

556,462. (Class 37. Paper and Stationery.) F. C. Doodeheefver, doing business under the name and style of "Grabura," Amsterdam, Netherlands. Original filed, act of 1946, Principal Register, June 11, 1948; amended to application, Supplemental Register, Dec. 8, 1951, Serial No. 559,010.



The representation of the girl is fanciful. Applicant claims ownership of Dutch Registration No. 76,894, dated Nov. 1, 1941.
For Wall-Papers.

556,463. (Class 46. Foods and Ingredients of Foods.) Corn Products Refining Company, New York, N. Y. Original filed, act of 1946, Principal Register, June 25, 1948; amended to application, Supplemental Register, Feb. 13, 1951, Serial No. 560,190.



The drawing is lined for orange and maroon. Applicant claims ownership of Registrations Nos. 41,117, 100,282, and others.
For Syrup for Food Purposes.
Claims use since Apr. 26, 1948.

556,464. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Perfect Circle Corporation, Hagerstown, Ind. Original filed, act of 1946, Principal Register, July 15, 1948; amended to application, Supplemental Register, Oct. 27, 1950, Serial No. 561,483.

NURLIZED

For Pistons for Internal Combustion Engines and the Like.
Claims use since June 7, 1948.

556,465. (Class 2. Receptacles.) Milprint, Inc., Milwaukee, Wis. Original filed, act of 1946, Principal Register, Feb. 28, 1949; amended to application, Supplemental Register, Dec. 19, 1951, Serial No. 574,635.

Perfecto-Pac

For Cardboard and Paper Bands or Collars Used To Encircle Bakery Commodities To Form Protective Containers Therefor.
Claims use since Jan. 21, 1938.

556,466. (Class 2. Receptacles.) Beacon Products Corporation, Newton Highlands, Mass. Original filed, act of 1946, Principal Register, Apr. 12, 1949; amended to application, Supplemental Register, Nov. 16, 1951, Serial No. 576,953.

SPIN-O-SERVER

For Plastic Dishes for Food.
Claims use since Dec. 1, 1948.

556,467. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) J. A. Zurn Mfg. Co., Erie, Pa. Original filed, act of 1946, Principal Register, Apr. 29, 1949; amended to application, Supplemental Register, Aug. 2, 1951, Serial No. 578,000.

CLOUDBURST

For Roof Drains.
Claims use since Jan. 1, 1948.

556,468. (Class 45. Soft Drinks and Carbonated Waters.) Du Brock, Incorporated, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 28, 1949; amended to application, Supplemental Register, Oct. 11, 1950, Serial No. 582,606.

DuBrock

For Non-Alcoholic, Maltless Beverages Sold as Soft Drinks, and Syrup and Concentrate for Making the Same.
Claims use since October 15, 1947.

556,469. (Class 48. Malt Beverages and Liquors.) Walter F. Rothe, doing business as The Floridian Reverage Company, Washington, D. C. Original filed, act of 1946, Principal Register, Sept. 7, 1949; amended to application, Supplemental Register, Dec. 14, 1950, Serial No. 584,549.

Floridian

For Ale Containing Spicy Syrups of Fruits.
Claims use since August 31, 1949.

556,470. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) The Autoyre Company, Incorporated, Oakville, Conn. Original filed, act of 1946, Principal Register, Sept. 29, 1949; amended to application, Supplemental Register, Nov. 20, 1951, Serial No. 585,506.

Fairfield

For Metal Kitchen and Bathroom Accessories Designed To Be Affixed to a Supporting Wall—Namely, Soap Dishes, Towel Bars, Towel Racks, Tumbler and Toothbrush Holders, Roll Holders and Shelf Brackets.
Claims use since January 1949.

556,471. (Class 37. Paper and Stationery.) Columbia River Paper Mills, Portland, Oreg. Filed Oct. 22, 1949, Serial No. 586,683.

COLUMBIA OFFSET

The word "Offset" is disclaimed. Applicant claims ownership of Registration No. 397,782.
For Printing Paper.
Claims use since Aug. 1, 1948.

556,472. (Class 46. Foods and Ingredients of Foods.) Associated Date Growers & Packers, Indio, Calif. Original filed, act of 1946, Principal Register, Nov. 14, 1949; amended to application, Supplemental Register, July 2, 1951, Serial No. 587,701.

Desert Maid

For Fresh Dates.
Claims use since Sept. 28, 1949.

556,473. (Class 52. Detergents and Soaps.) William E. McCracken, Medford, Oreg. Original filed, act of 1946, Principal Register, May 26, 1950; amended to application, Supplemental Register, June 22, 1951, Serial No. 598,193.

McCRACKEN

For Cleanser for Rugs and Upholstery Having Incidental Demothing Properties.
Claims use since Apr. 21, 1950.

556,474. (Class 46. Foods and Ingredients of Foods.) Gerber & Co., Inc., New York, N. Y. Filed Aug. 24, 1951, Serial No. 618,034.

Gerber's Cheese

Applicant claims ownership of Registration No. 113,880.
For Cheese.
Claims use since June 1929.

Service Marks

556,475. (Class 101. Advertising and Business.) Civic Survey by Thelma Padgett, Inc., also doing business as Civic Survey, Inc., Syracuse, N. Y. Original filed, act of 1946, Principal Register, Apr. 4, 1949; amended to application, Supplemental Register, July 17, 1951, Serial No. 576,571.



The words "Introducing Your City to You" are disclaimed.
For Advertising Services Rendered on Behalf of Merchants of a Particular Community by Having Specially Trained Personnel Call Upon Newcomers to the Community for the Purpose of Presenting Merchants' Literature and Gratuities With a View to Influence the New Residents To Become Customers of Said Merchants.
Claims use since Jan. 15, 1943.

556,476. (Class 100. Miscellaneous.) Western Consolidated Abstract Co., Midland, Tex., assignee of Frank E. Ball, doing business under the name and style of Western Consolidated Abstract Co. Original filed, act of 1946, Principal Register, Nov. 16, 1949; amended to application, Supplemental Register, May 7, 1951, Serial No. 587,846.

"FOTOTITLES"

For Abstracting of Records Pertaining to Titles to Real Estate and Other Similar Documents by Means of Microfilm Photographs.
Claims use since July 1, 1949.

556,477. (Class 105. Transportation and Storage.) Southwest Airways Company, South San Francisco, Calif. Original filed, act of 1946, Principal Register, Jan. 30, 1950; amended to application, Supplemental Register, Jan. 4, 1952, Serial No. 591,702.

Southwest Airways

For Transportation by Aircraft of Persons, Property and Mail.
Claims use since June 21, 1941.

TRADE-MARK REGISTRATIONS RENEWED

37,945. SAPOLIN. Registered Mar. 11, 1902. Gerstendörfer Bros. Re-renewed Mar. 11, 1952, to Sapolin Paints Inc., New York, N. Y., a corporation of New York. Paints, Enamels, Varnishes, Lacquers, Etc. Class 16.

84,088. "FLASH" AND DESIGN. Registered Nov. 7, 1911. Flash Chemical Co., Boston, Mass. Re-renewed Nov. 7, 1951, to Flash Chemical Co., Cambridge, Mass., a corporation of Maine. Insect and Vermin Exterminator, Disinfectant, and Talcum Powder. Class 51.

84,404. PARCHMENT BRISTOL. Registered Dec. 12, 1911. Parsons Paper Co., Holyoke, Mass., a corporation of Massachusetts. Re-renewed Dec. 12, 1951. Bristol Board for Card Indexes and Cover Paper. Class 37.

84,909. HEC. Registered Jan. 9, 1912. Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York. Re-renewed Jan. 9, 1952. Caustic Soda, Bleaching-Powder, and Sulfur Chlorid. Class 6.

85,132. JERGENS. Registered Jan. 30, 1912. The Andrew Jergens Co., New York, N. Y., and Cincinnati, Ohio. Re-renewed Jan. 30, 1952, to The Andrew Jergens Company, Cincinnati, Ohio, a corporation of Ohio. Toilet Soap. Class 52.

85,133. JERGENS. Registered Jan. 30, 1912. The Andrew Jergens Co., New York, N. Y., and Cincinnati, Ohio. Re-renewed Jan. 30, 1952, to The Andrew Jergens Company, Cincinnati, Ohio, a corporation of Ohio. Perfumes, Toilet Water, Cold Cream, Face Lotions, Etc. Class 51.

85,823. LITTLE GIANT. Registered Mar. 19, 1912. Little Giant Punch & Shear Co., Sparta, Ill. Re-renewed Mar. 19, 1952, to Theodore J. Gundlach, doing business as T. J. Gundlach Machine Company, Belleville, Ill. Machines for Punching and Shearing Iron and Combined Machines for Punching and Shearing Iron. Class 23.

86,177. REPRESENTATION OF BAG WITH TOP BAND LINED FOR RED. Registered Apr. 16, 1912. The Taylor Provision Company, Trenton, N. J., a corporation of New Jersey. Re-renewed Apr. 16, 1952. Pork Roll. Class 46.

86,221. ELM FLAX MILLS. Registered Apr. 23, 1912. The A. H. Hart Co. Re-renewed Apr. 23, 1952, to The Linen Thread Co., Inc., Paterson, N. J., a corporation of Delaware. Twine and Cord. Class 7.

86,422. RELIANCE. Registered May 7, 1912. Marshall & Company, Kearney, N. J. Re-renewed May 7, 1952, to The Linen Thread Co., Inc., Paterson, N. J., a corporation of Delaware. Twine. Class 7.

86,452. REPRESENTATION OF PORTRAIT OF KING EDWARD VII OF ENGLAND AND DESIGN. Registered May 7, 1912. R. J. Reynolds Tobacco Company, Winston-Salem, N. C., a corporation of New Jersey. Re-renewed May 7, 1952. Smoking and Chewing Tobacco, Cigars, Cigarettes, and Snuff. Class 17.

86,522. A. W. F. Registered May 14, 1912. A. W. Faber, Stein, Germany. Re-renewed May 14, 1952, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J., a corporation of New Jersey. Crayons, Chalks, Pencil-Leads, Pencil-Point Protectors, Slate-Pencils, Etc. Class 37.

86,523. "CASTELL" ETC. AND DRAWING. Registered May 14, 1912. A. W. Faber, Stein, Germany. Re-renewed May 14, 1952, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J., a corporation of New Jersey. Pencil-Holders, Lead-Pencils, Screw-Pencils, Lead-Pencil Files, Colored Pencils, Etc. Class 37.

286,022. "CRYSTAL" ETC. AND DRAWING. Registered Aug. 11, 1931. William T. Vassilatos, doing business as The Crystal Shoe Polish Manufacturing Co., Chicago, Ill. Renewed Aug. 11, 1951. Leather Dressings and Polishes for Shoes. Class 4.

289,197. "SUN TAVERN" AND DESIGN. Registered Nov. 24, 1931. Edmands Coffee Company, Boston, Mass., a corporation of Massachusetts. Renewed Nov. 24, 1951. Coffee and Tea. Class 46.

289,218. "KEM FINISHES" AND DRAWING. Registered Nov. 24, 1931. The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio. Renewed Nov. 24, 1951. Paints in Paste, Semi-Liquid, or Ready-Mixed Form; Varnishes, Lacquers, Paint Enamels, and Clear Varnishes. Class 16.

289,384. DEMILCO. Registered Nov. 24, 1931. Deering, Milliken & Co., Inc., New York, N. Y., a corporation of New York. Renewed Nov. 24, 1951. Woolen Piece Goods. Class 42.

289,435. "F. W. DODGE CORPORATION" AND REPRESENTATION OF BUILDING. Registered Nov. 24, 1931. F. W. Dodge Corporation, New York, N. Y., a corporation of New York. Renewed Nov. 24, 1951. Magazines or Trade Journals, Daily Construction Reports, Daily Construction Bulletins, Etc. Class 38.

289,564. DOLMA. Registered Dec. 1, 1931. Forstmann & Huffmann Company. Renewed Dec. 1, 1951, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

289,565. RALGA. Registered Dec. 1, 1931. Forstmann & Huffmann Company. Renewed Dec. 1, 1951, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

289,596. HYDRO-KOTE. Registered Dec. 1, 1931. The Capital City Products Company, Columbus, Ohio, a corporation of Delaware. Renewed Dec. 1, 1951. Pressed and Hydrogenized Palm Kernel or Cocoanut Oil, Etc. Class 46.

289,747. "TASTYBAKE" AND DRAWING. Registered Dec. 1, 1931. Tasty Baking Company, Philadelphia, Pa., a corporation of Pennsylvania. Renewed Dec. 1, 1951. Rolls, Cinnamon Cake, Sticky Buns, Etc. Class 46.

289,857. TITAN. Registered Dec. 8, 1931. R. Hood Haggie & Son, Limited, Newcastle-on-Tyne, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Dec. 8, 1951. Ropes Made of Manila Hemp. Class 7.

289,942. THE SUN DIAL. Registered Dec. 15, 1931. The Sun Printing & Publishing Association. Renewed Dec. 15, 1951, to New York World-Telegram Corporation, New York, N. Y., a corporation of New York. Title of a Column Printed Daily in "The Sun." Class 38.

290,035. KASHMIROYA. Registered Dec. 22, 1931. Forstmann & Huffmann Company. Renewed Dec. 22, 1951, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

290,083. "OLIVER" AND DRAWING. Registered Dec. 22, 1931. Oliver Farm Equipment Company. Renewed Dec. 22, 1951, to The Oliver Corporation, Chicago, Ill., a corporation of Delaware. Farm Tractors, General Purpose Tractors, Orchard Tractors, Road Tractors, Etc. Class 23.

290,132. "CORA" ETC. AND DRAWING LINED FOR RED. Registered Dec. 22, 1931. G. & L. Flli Cora. Renewed Dec. 22, 1951, to G. & L. F.lli Cora Soc. p. Az., Turin, Italy, a company organized under the laws of Italy. Wine Vermouth. Class 47.

290,133. CORA. Registered Dec. 22, 1931. G. & L. Flli Cora. Renewed Dec. 22, 1951, to G. & L. F.lli Cora Soc. p. Az., Turin, Italy, a company organized under the laws of Italy. Bitters, Cordials, Liquors, Brandies, Etc. Class 49.

290,134. CORA. Registered Dec. 22, 1931. G. & L. Flli Cora. Renewed Dec. 22, 1951, to G. & L. F.lli Cora Soc. p. Az., Turin, Italy, a company organized under the laws of Italy. Wines, Appetising Wines, Sparkling Wines. Class 47.

290,424. "HARRIS" AND DESIGN. Registered Jan. 5, 1932. Harris Manufacturing Company, Johnson City, Tenn., a corporation of Tennessee. Renewed Jan. 5, 1952. Oak and Maple Flooring and Interior Wood Trim. Class 12.

290,557. "CUMBERLAND" AND DRAWING. Registered Jan. 12, 1932. W. S. Libbey Company, Lewiston, Maine, a corporation of Maine. Renewed Jan. 12, 1952. Blankets of All Wool, Part Wool, Cotton, or Rayon. Class 42.

290,560. "PEPPERELL" ETC. AND DRAWING LINED FOR RED AND BLUE. Registered Jan. 12, 1932. Pepperell Manufacturing Company, Boston, Mass., a corporation of Massachusetts. Renewed Jan. 12, 1952. Sheetings, Shirtings, Denims, Twills, and Other Similar Fabrics Woven of Cotton. Class 42.

291,312. "SINCLAIR PENNSYLVANIA MOTOR OIL" ETC. AND DRAWING. Registered Feb. 9, 1932. Sinclair Refining Company, New York, N. Y. Renewed Feb. 9, 1952, to Sinclair Refining Company, Chicago, Ill., a corporation of Maine. Lubricating Oil. Class 15.

291,936. NUMERO DOUZE. Registered Feb. 23, 1932. Lentheric, Incorporated, New York, N. Y., a corporation of New York. Renewed Feb. 23, 1952. Perfume, Toilet Water, Sachet, Dusting Powder, Etc. Class 51.

292,027. CRETEX. Registered Mar. 1, 1932. The Reardon Company, St. Louis, Mo., a corporation of Missouri. Renewed Mar. 1, 1952. Waterproof Cement Paint. Class 12.

292,268. "ELVIRA" AND DRAWING. Registered Mar. 8, 1932. Schieffelin & Company, New York, N. Y., a corporation of New York. Renewed Mar. 8, 1952. Shampoo. Class 52.

292,410. MEL-TEX. Registered Mar. 15, 1932. Melville Shoe Corporation, New York, N. Y., a corporation of New York. Renewed Mar. 15, 1952. Hosiery. Class 39.

292,817. MAKE MINE MANHATTAN. Registered Mar. 29, 1932. New York World-Telegram Corporation, New York, N. Y., a corporation of New York. Renewed Mar. 29, 1952. Section or Column Appearing in a Newspaper or Periodical. Class 38.

292,913. PECTINOL. Registered Mar. 29, 1932. Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware. Renewed Mar. 29, 1952. Enzyme Product Used in Clarifying Plant Juices and Extracts. Class 6.

293,237. AUTOCLAMP. Registered Apr. 19, 1932. Wood Newspaper Machinery Corporation, New York, N. Y. Renewed Apr. 19, 1952, to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia. Mechanism for Automatically Attaching Printing Plates to the Printing Cylinders of a Printing Press. Class 23.

293,238. AUTOPASTER. Registered Apr. 19, 1932. Wood Newspaper Machinery Corporation, New York, N. Y. Renewed Apr. 19, 1952, to Wood Newspaper Machinery Corporation, Plainfield, N. J., a corporation of Virginia. Machine for Automatically Replenishing the Paper Rolls of Printing Presses. Class 23.

293,384. FULFLO. Registered Apr. 19, 1932. Fulflo Specialties Company. Renewed Apr. 19, 1952, to The Fulflo Specialties Company, Inc., Blanchester, Ohio, a corporation of Ohio. Bronze, Brass, Iron, and Acid Resistant Metal Valves—Namely, Shut Off Valves, Check Valves, Bypass Valves, Etc. Class 13.

293,408. "RRR" ETC. AND DRAWING. Registered Apr. 19, 1932. Radway & Co. Inc., New York, N. Y., a corporation of New York. Renewed Apr. 19, 1952. Preparation for the Treatment of Rheumatism, Neuralgia, Nervous and Malarious Complaints, and Similar Ailments. Class 18.

293,649. MUSICAL TRUTH. Registered May 3, 1932. C. G. Conn, Ltd., Elkhart, Ind., a corporation of Indiana. Renewed May 3, 1952. Pamphlets or Magazines. Class 38.

293,881. "PENGRADE" LINED FOR RED AND BLACK. Registered May 10, 1932. Fred G. Clark, Inc., Cleveland, Ohio. Renewed May 10, 1952, to Sinclair Refining Company, Chicago, Ill., a corporation of Maine. Lubricating Oils. Class 15.

293,889. PROSTIGMIN. Registered May 10, 1932. Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. Renewed May 10, 1952. Preparation for Stimulating or Increasing Intestinal Peristalsis. Class 18.

293,902. "CONNIE" ETC. AND DESIGN. Registered May 10, 1932. Wohl Shoe Company, St. Louis, Mo., a corporation of Missouri. Renewed May 10, 1952. Women's and Misses' Shoes, Boots, Etc. Class 39.

294,009. CLOVER FARM. Registered May 10, 1932. The Grocers & Producers Co., doing business as Clover Farm Stores. Renewed May 10, 1952, to Clover Farm Stores Corporation, Cleveland, Ohio, a corporation of Ohio. Matches. Class 9.

294,050. "RIW" ETC. AND DRAWING. Registered May 17, 1932. Toch Brothers, Inc., New York, N. Y. Renewed May 17, 1952, to Toch Brothers, Incorporated, Staten Island, N. Y., a corporation of New York. Liquid, Semi-Liquid, Powder, Paste, and Plastic Compositions Other Than Paints for Water-Proofing Wood, Metal, Cement, and Other Structural Materials. Class 16.

294,060. "REALISTIC" AND DESIGN LINED FOR SILVER. Registered May 17, 1932. The Realistic Permanent Wave Machine Company, Cleveland, Ohio. Renewed May 17, 1952, to The Realistic Company, Cincinnati, Ohio, a corporation of Ohio. Electrical Permanent Waving Heaters; Electrical Hair Waving Apparatus—Namely, Machines, Supports, Etc. Class 44.

294,105. BOTANY. Registered May 17, 1932. Botany Worsted Mills. Renewed May 17, 1952, to Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey. Neckties. Class 39.

294,110. SANDEES. Registered May 17, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed May 17, 1952. Underwear of Knitted Fabric for Women and Children. Class 39.

294,146. RIDE 'EM. Registered May 17, 1932. Keystone Mfg. Co., Boston, Mass., a corporation of Massachusetts. Renewed May 17, 1952. Vehicular Toys—Namely, Aerial Ladder, Aeroplane, Ambulance Truck, Army Truck, Etc. Class 22.

294,165. BEAUDRY. Registered May 17, 1932. Barbour Stockwell Company, Cambridge, Mass., a corporation of Massachusetts. Renewed May 17, 1952. Power-Hammers and Trip-Hammers. Class 23.

294,166. CHAMPION. Registered May 17, 1932. Barbour Stockwell Company, Cambridge, Mass., a corporation of Massachusetts. Renewed May 17, 1952. Power-Hammers and Trip-Hammers. Class 23.

294,226. COVER-ALL. Registered May 24, 1932. Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania. Renewed May 24, 1952. Goggles. Class 26.

294,266. CAUSUL. Registered May 24, 1932. The Lunkenheimer Company, Cincinnati, Ohio, a corporation of Ohio. Renewed May 24, 1952. Gate Valves. Class 13.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

122,634. CONCORDIA. Registered Sept. 3, 1918. Benjamin O. Bowers, New York, N. Y. Canned Sardines and Canned Shrimps. Class 46. Canceled Feb. 1, 1952. Sec. 7(d).

342,963. KAPLAN'S GOLD MEDAL. Registered Feb. 2, 1937. Kaplan Rice Mill, Inc., Kaplan, La. Rice. Class 46. Canceled Feb. 8, 1952. Canc. Nos. 5260 and 5290.

344,940. RITZ. Registered Apr. 6, 1937. Schorsch & Co., Inc., New York, N. Y. Wrapping Papers. Class 37. Canceled Jan. 25, 1952. Canc. No. 5792.

349,891. BLUE BOY. Registered Sept. 14, 1937. Joseph Rosenblum, New York, N. Y. Cheese. Class 46. Canceled Jan. 18, 1952. Canc. No. 5771.

354,238. TAYLOR'S INC. LTD. Registered Feb. 8, 1938. W. B. Rayle, Pasadena, Calif. Sweet Pickled Fruits, Fruit Jellies, Etc. Class 46. Canceled Jan. 25, 1952. Canc. No. 5704.

358,764. ARISTOCRATIC. Registered July 20, 1938. Broome's, Incorporated, Seattle, Wash. Chicken Noodles, Sauce—Namely, a Blend of Tomato and Sweet Pickle Relish, Etc. Class 46. Canceled Jan. 18, 1952. Canc. No. 5720.

360,613. CHARGE UP. Registered Sept. 20, 1938. Mission Dry Corporation, Los Angeles, Calif. Nonalcoholic Maltless Beverage Used as a Soft Drink and Syrups and Extracts for Preparing the Same. Class 45. Canceled Feb. 8, 1952. Canc. No. 5119.

382,561. LIVELY. Registered Oct. 29, 1940. Witwer Grocer Company, Cedar Rapids, Iowa. Maltless Nonalcoholic Carbonated Beverages, Particularly Pale Dry Ginger Ale. Class 45. Canceled Jan. 25, 1952. Canc. No. 5788.

408,223. TIMER. Registered July 25, 1944. The Gruen Watch Company, Cincinnati, Ohio. Watches, Watch Cases, and Watch Movements. Class 27. Canceled Jan. 18, 1952. Canc. No. 5713.

433,896. GOLDENETS. Registered Nov. 4, 1947. Kayantee Candy Company, Passaic, N. J. Candy. Class 46. Canceled Feb. 8, 1952. Sec. 18.

513,419. PIED PIPER. Registered Aug. 9, 1949. Peck & Peck, New York, N. Y. Blouses for Women. Class 39. Canceled Jan. 18, 1952. Canc. No. 5775.

525,550. KWIK-HITCH. Registered May 23, 1950. Calhoun Manufacturing Company, Cedar Falls, Iowa. Tractor Hitches. Class 23. Canceled Feb. 8, 1952. Canc. No. 5617.

534,161. SPRA-SHAMPOO. Registered Nov. 28, 1950. Lo-Calory Food Corporation, New York, N. Y. Hair Shampoo. Class 52. Canceled Jan. 25, 1952. Canc. No. 5737.

535,869. TOTE BOX. Registered Jan. 2, 1951. Duro Consolidated, Incorporated, Redwood City, Calif. Card Filing Trays and Filing Cases Therefor. Class 32. Canceled Jan. 18, 1952. Canc. No. 5743.

537,174. ULTRA-GLO. Registered Jan. 30, 1951. Henry Fette & Co., Clifton, N. J. Ready-Mixed Paints, Paint Enamels, Lacquers and Thinners Therefor. Class 16. Canceled Jan. 25, 1952. Canc. No. 5721.

539,735. DURAN METRO-WELTING. Registered Mar. 20, 1951. Metropolitan Bias Binding Co., Philadelphia, Pa. Plastic and Cotton Cording Used for Trimming Chairs, and Upholstery, Such as Sofas. Class 40. Canceled Jan. 18, 1952. Canc. No. 5733.

544,423. MARKALL. Registered June 26, 1951. Blaisdell Pencil Company, Philadelphia, Pa. Wood-Cased Lead Pencils. Class 37. Canceled Jan. 25, 1952. Canc. No. 5802.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

289,749. PICTURE OF AN EAR OF CORN. Registered Dec. 1, 1931. Corn Exchange National Bank and Trust Company, Philadelphia, Pa. Blank Checks. Class 37. Corrected as follows: In the certificate, lines 3 and 17; in the heading to the statement; in line 2 of the statement; and in the printed signature, after "Company," *Philadelphia*, should be inserted.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

551,291. MILIUM. Registered Nov. 27, 1951. The Vadium Corporation. Textile Fabrics of Cotton, Rayon, Nylon and Mixtures Thereof Having Heat Reflective and/or Heat Retentive Properties. Class 42. New certificate under section 7(c) issued Mar. 18, 1952, to Deering, Milliken & Co., Inc., New York, N. Y., a corporation of New York.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 289,954. Registered Dec. 15, 1931. The Naugatuck Chemical Company, New York, N. Y. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

BEUTENE

For Condensation Product of Butyraldehyde and Aniline.
Claims use since Apr. 10, 1931.

Reg. No. 289,955. Registered Dec. 15, 1931. The Naugatuck Chemical Company, New York, N. Y. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

HEPTEEN BASE

The word "Base" is disclaimed apart from the mark as shown.
For Condensation Product of Heptaldehyde and Aniline.
Claims use since Mar. 24, 1931.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 412,163. Registered Feb. 20, 1945. George L. Soreghen, Chicago, Ill. Republished by registrant.



The word "Brand" is disclaimed apart from the mark as shown.
For Halters, Hame-Straps, Leather Bridles, Hitch Reins, Whips, Whip Lashes, Quirts, Hackamores, Braided Leather Bridles, Fly Nets for Animals, and Rope Lariats.
Claims use since 1878.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 288,670. Registered Nov. 3, 1931. The Naugatuck Chemical Company, New York, N. Y. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

LAUREX

For Unrefined Zinc Laurate Useful as an Accelerator in the Vulcanization of Rubber.
Claims use since Jan. 14, 1930.

Reg. No. 290,030. Registered Dec. 22, 1931. The Naugatuck Chemical Company, New York, N. Y. Republished by United States Rubber Company, New York, N. Y., a corporation of New Jersey.

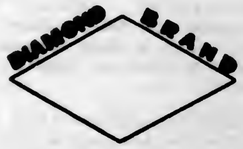
HEPTEEN

For Mixture of Oil and a Condensation Product of Heptaldehyde and Aniline Useful as an Accelerator in the Vulcanization of Rubber.
Claims use since Mar. 28, 1931.

CLASS 7

CORDAGE

Reg. No. 412,669. Registered Mar. 20, 1945. George L. Soreghen, Chicago, Ill. Republished by registrant.



The word "Brand" is disclaimed apart from the mark as claimed.
For Rope in Cut Lengths, Coils of Rope.
Claims use since 1878.

CLASS 12

CONSTRUCTION MATERIALS

Reg. No. 278,618. Registered Dec. 23, 1930. Saginaw Lime & Stone Co., Saginaw, Ala. Republished by Longview Lime Corporation, Birmingham, Ala., a corporation of Delaware.



The word "Lime" is disclaimed apart from the mark as shown. The drawing is lined for blue.
For Lime.
Claims use since 1912.

Reg. No. 279,811. Registered Jan. 27, 1931. Longview Lime Works, Longview, Ala. Republished by Longview Lime Corporation, Birmingham, Ala., a corporation of Delaware.

LONGVIEW LIME

The word "Lime" is disclaimed apart from the mark as shown.
For Lime.
Claims use since 1890.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 83,795. Registered Oct. 10, 1911. The Webb Wire Works, New Brunswick, N. J. Republished by The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey.



For Wire.
Claims use since Apr. 15, 1907.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 298,283. Registered Oct. 18, 1932. (Classified in Class 51.) Bloomingdale Bros., Inc., New York, N. Y. Republished by Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware.

† Labratest †

See this serial number in Class 51 for goods and mark.
Claims use since Apr. 20, 1932.

Reg. No. 298,664. Registered Nov. 1, 1932. Bloomingdale Bros., Inc., New York, N. Y. Republished by Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware.

TRAV·IL·AIDS

BLOOMINGDALE'S
NEW YORK

The words "Bloomingdale's" and "New York" are disclaimed apart from the mark as shown.
For Spirits of Camphor U. S. P., Spirits of Nitre U. S. P., Aromatic Spirits of Ammonia U. S. P., Tincture of Iodine U. S. P., Essence of Peppermint U. S. P., Rhubarb and Soda Tablets, Aspirin Tablets 5 Grain, Soda Mint Tablets 5 Grain, Cascara Sagrada Tablets 5 Grain, Saccharin Tablets ½ Grain, and Sodium Bicarbonate Tablets 5 Grain.
Claims use since May 12, 1932.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 330,481. Registered Dec. 3, 1935. Superior Insulating Tape Company, St. Louis, Mo., a corporation of Missouri. Republished by registrant.



For Friction Tape and Rubber Splicing Compound and White Mason Tape for Electrical Insulation Purposes.
Claims use since Mar. 1, 1923.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 295,542. Registered July 5, 1932. Bloomingdale Bros., Inc., New York, N. Y. Republished by Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware.

ENDURA

For Razor Blades.
Claims use since Feb. 16, 1932.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 425,685. Registered Nov. 26, 1946. Airway Finishing Corporation, Chicago, Ill., a corporation of Illinois. Republished by registrant.

AIRWAY

For Metal Display Shelves.
Claims use since Apr. 29, 1937.

CLASS 39

CLOTHING

Reg. No. 195,374. Registered Feb. 24, 1925. Schreiber, Brantman & Wyner, Inc., New York, N. Y. Republished by I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York.

MYLANETTE

For Unfinished Knitted Vests, Step-Ins, Bloomers, Princess Slips, Envelope Chemises, Camisoles, Petticoats, and Nightgowns in Silks, Cottons, or Mixtures of the Same, Comprising Tubing Sold in Lengths.
Claims use since the late summer of 1922.

Reg. No. 287,847. Registered Oct. 13, 1931. The May Department Stores Company, St. Louis, Mo., a corporation of New York. Republished by registrant.

CLEARWATER

For Dress and Negligee Shirts.
Claims use since about May 11, 1931.

Reg. No. 298,029. Registered Oct. 11, 1932. Bloomingdale Bros., Inc., New York, N. Y. Republished by Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware.

STEEPLECHASE

For Women's and Misses' Hats.
Claims use since May 11, 1932.

Reg. No. 381,787. Registered Oct. 8, 1940. Curtis A. Limbach, New York, N. Y. Republished by registrant.

CRAVATEUR

For Neckties.
Claims use since Mar. 9, 1939.

Reg. No. 391,808. Registered Nov. 25, 1941. Botany Worsted Mills, Passaic, N. J. Republished by Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey.



The drawing is lined for black and red. The word "Robe" is disclaimed apart from the mark as shown.
For Lounging Robes.
Claims use since Oct. 8, 1937.

Reg. No. 424,869. Registered Oct. 29, 1946. Levinsohn Bros. & Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant.

JIVE-FIVE

The term "Five" is disclaimed apart from the mark as shown.
For Clothing—Namely, Suits, and Coats for Juniors, Boys, and Young Men.
Claims use since Sept. 10, 1944.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 191,157. Registered Nov. 4, 1924. Schreiber, Brantman & Wyner, Inc., New York, N. Y. Republished by I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York.

Trico-Lure

For Knitted Goods of Silk, Artificial Silk, and Mixtures of the Same and Made in the Piece, Both Flat and Tubular.
Claims use since Apr. 28, 1924.

Reg. No. 204,482. Registered Oct. 20, 1925. I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Scottish Heath Fabric

The word "Fabric" is disclaimed apart from the mark as shown.
For Piece Goods of Worsted and of Worsted and Cotton Mixture.
Claims use since May 1, 1925.

Reg. No. 210,826. Registered Mar. 23, 1926. I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Cub-L-Down
a cuddle in every down

For Silk and Wool Knitted Fabric in the Piece.
Claims use since Sept. 1, 1925.

Reg. No. 217,651. Registered Sept. 7, 1926. I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Autumn Bloom

For Knitted Piece Goods Composed of Silk, Rayon, Cotton, Wool, Worsted, and Combinations Thereof.
Claims use since Apr. 1, 1926.

Reg. No. 218,273. Registered Sept. 21, 1926. I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

LOVE-KNOT

For Knitted Piece Goods Composed of Silk, Rayon, Cotton, Wool, Worsted, and Combinations Thereof.
Claims use since Apr. 15, 1926.

Reg. No. 221,063. Registered Nov. 23, 1926. I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

SAG-No-MoR

For Knitted Piece Goods Made of Wool, Worsted, Rayon, and Silk, or Combinations Thereof.
Claims use since Mar. 1, 1926.

Reg. No. 297,882. Registered Oct. 4, 1932. N. Fluegelman & Co., Inc., New York, N. Y. Republished by N. Fluegelman & Co., Inc. (1951), New York, N. Y., a corporation of New York.

SHRUNKETIZED

For Woolen, Silk, Cotton, Rayon, and/or Combinations Thereof in the Piece, Woven, Knitted, or Netted.
Claims use since Oct. 8, 1931.

Reg. No. 402,726. Registered Aug. 10, 1943. I. A. Wyner & Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

WYNCORD

For Piece Goods Made of Cotton, Rayon, Wool, Mohair, Alpaca, and Combinations Thereof, and Pile Fabrics.
Claims use since Mar. 10, 1942.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 89,017. Registered Nov. 5, 1912. Duluth-Superior Milling Company, Duluth, Minn. Republished by Standard Milling Company, Chicago, Ill., a corporation of Illinois.

PRIMA DONNA

For Wheat Flour.
Claims use since Feb. 13, 1883.

Reg. No. 332,539. Registered Feb. 18, 1936. Robilio & Cuneo, Memphis, Tenn., a partnership. Republished by registrant.

RONCO

For Macaroni, Noodles, and Spaghetti.
Claims use since Mar. 1, 1934.

Reg. No. 355,166. Registered Mar. 8, 1938. Robilio & Cuneo, Memphis, Tenn., a partnership. Republished by registrant.

RONCO

For Mixed Dried Peas, Macaroni, Noodles, Corn, Rice, Barley in the Nature of a Soup Mix.
Claims use since Jan. 1, 1935.

Reg. No. 361,622. Registered Oct. 25, 1938. Robilio & Cuneo, Memphis, Tenn., a partnership. Republished by registrant.



The words "Ronco" and "Tasty" are disclaimed apart from the mark as shown.
For Macaroni Dinner Comprising Macaroni and Grated Cheese.
Claims use since Mar. 23, 1938.

Reg. No. 374,476. Registered Jan. 9, 1940. Garland Milling Company, Greensburg, Ind. Republished by Garland Mills, Inc., Greensburg, Ind., a corporation of Indiana.



For Wheat Flour.
Claims use since May 26, 1898.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 99,940. Registered Sept. 29, 1914. A. Bourjois & Co. Inc., New York, N. Y. Republished by Bourjois, Inc., New York, N. Y., a corporation of New York.

JAVA

For Toilet Powders.
Claims use since January 1879.

Reg. No. 291,305. Registered Feb. 9, 1932. Newport Chemical Works, Incorporated, Carrollville, Wis. Republished by E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware.

COLLOIDAROME

For Perfumed Oils.
Claims use since Dec. 18, 1930.

Reg. No. 298,283. Registered Oct. 18, 1932. Bloomingdale Bros., Inc., New York, N. Y. Republished by Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware.

† Labratest †

For Olive Oil Shampoo, Essence of Peppermint, Bay Rum West Indian, Pine Tar Shampoo, Castor Oil Tasteless, Lilas Vegetale, Eau de Cologne, Rhubarb and Soda Mixture, Tincture Green Soap, Antiseptic Mouth Wash, Astringent Mouth Wash, Cod Liver Oil Norwegian, Dobell's Solution, Extract Witch Hazel Distilled, Russian Mineral Oil (for Medicinal Purposes), Cascara Sagrada, Cascara Sagrada Aromatic, Eau de Quinine, Cocoanut Oil Shampoo, Honey and Almond Lotion (for Hands and Face), Aspirin, Tincture of Benzoin, Glycerine and Rose Water, Glycerine C. P., Bath Salts, Rubbing Alcohol, Glycerine Rose Benzoin Lotion.
Claims use since Apr. 20, 1932.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 289,657. Registered Dec. 1, 1931. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.

sollo

For Cleaning Fluid—Namely, a Dry Cleaning Preparation.
Claims use since about June 1, 1931.

Reg. No. 298,283. Registered Oct. 18, 1932. (Classified in Class 51.) Bloomingdale Bros., Inc., New York, N. Y. Republished by Federated Department Stores, Inc., New York, N. Y., a corporation of Delaware.

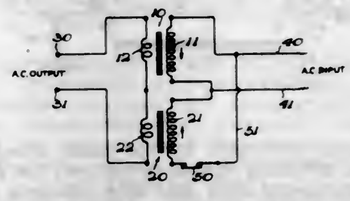
† Labratest †

See this serial number in Class 51 for goods and mark.
Claims use since Apr. 20, 1932.

REISSUES

MARCH 18, 1952

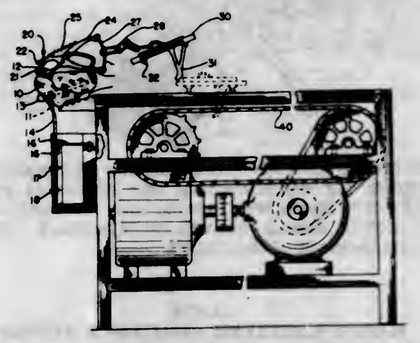
23,470
ELECTRICAL ENERGIZING MEANS FOR LIMIT CONTROL DEVICES AND THE LIKE
Paul L. Betz, Baltimore, Md., assignor to Consolidated Gas Electric Light and Power Company of Baltimore, Baltimore, Md., a corporation of Maryland
Original No. 2,569,397, dated September 25, 1951, Serial No. 95,130, May 24, 1949. Application for reissue October 26, 1951, Serial No. 253,323
8 Claims. (Cl. 175—335)



1. In an electrical energizing means for a control device of the character including a thermoelectric circuit having therein a thermocouple and an electromagnetic means provided with an armature operatively connected to a means to be controlled and retained in operative position by said electromagnetic means while normal thermoelectric current is being generated by said thermocouple, the combination of means for actuating said electromagnetic means to effect release of said armature notwithstanding continued generation of thermoelectric current comprising a control circuit including output leads, input leads operatively connected to a source of alternating current and means in said control circuit having circuit connections to said input leads for imposing substantially zero voltage across said output leads when the circuit connections from said means to said input leads are complete and operable to impose a substantial voltage across said output leads upon interruption of a line in said connections, and means electrically connected to said output leads and associated with said electromagnetic means for applying alternating current in said output leads to said electromagnetic means to reduce the net effect of said thermoelectric current on said electromagnetic means sufficiently to effect release of said armature.

23,471
SKINNING MACHINE
Frederic J. Coad, deceased, late of Des Moines, Iowa, by Swift & Company, Chicago, Ill., assignee
Original No. 2,461,466, dated February 8, 1949, Serial No. 545,474, July 18, 1944. Application for reissue February 6, 1950, Serial No. 142,552
9 Claims. (Cl. 17—21)

1. A machine for pulling skin from a meat cut surrounding a bone having enlarged ends such as the humerus bone of a shoulder cut and the femur bone of a ham cut, comprising means to engage the bone of said cut at one of the enlarged ends of the bone, a clamping means adapted to be fixedly secured to the skin, pneumatically driven means to pull the clamping means away from said engaging means in a direction to pull



the skin from the cut progressively from one end to the other, and means to connect the pneumatically driven means to the clamping means.

23,472
DEVICE FOR EMBRACINGLY HOLDING GLOVES
Victor M. Kindlund and Cleatus S. Kindlund, Englewood, N. J.
Original No. 2,487,339, dated November 8, 1949, Serial No. 112,420, August 26, 1949. Application for reissue March 16, 1950, Serial No. 150,098
1 Claim. (Cl. 24—3)

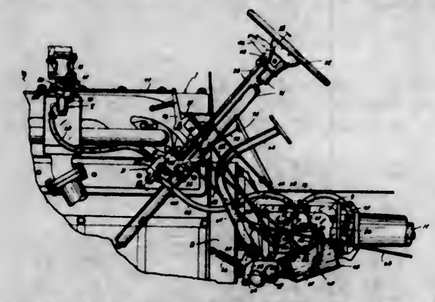


2. In a device for holding gloves comprising spring hinged jaws having extensions thereon forming handles, the end of at least one of said handles being rolled, a generally B-shaped attaching member having a straight side embraced by said rolled end, and the opposite side of said member having spaced loops formed therein to which chain means may be secured.

23,473
SHIFT-LEVER CONTROLLED AUTOMOTIVE CLUTCH
Glenn T. Randol, Mountain Lake Park, Md.
Original No. 2,479,083, dated August 16, 1949, Serial No. 498,153, August 11, 1943. Application for reissue March 28, 1950, Serial No. 154,381
29 Claims. (Cl. 192—.052)

1. In combination with a [main] *motor vehicle friction* clutch, a change-speed gearing and shifting means therefor including a member having a range of movement when the gearing is in neutral; of power means *operable* for disengaging the clutch; a source of power for the power means; means for causing operation of the power means including two control [members] *elements* each of which is capable of causing the operation of

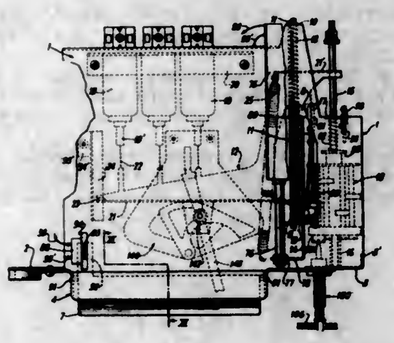
said power means; means for selectively operating the control [members] *elements* by movements of the movable member of the shifting means in opposite directions from an intermediate point in its said neutral range of movement;



and means operable independently of the shifting member for disconnecting the source of power [of] *from* the power means, and for controlling the power means at will to [permit] *control* re-engagement of the clutch.

23,474
RADIO RECEIVER SEQUENCE TUNER
Edward J. Sperber, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Original No. 2,511,602, dated June 13, 1950, Serial No. 660,598, April 9, 1946. Application for reissue January 26, 1951, Serial No. 208,091
26 Claims. (Cl. 250—20)

19. In a tuner for tuning to a selected frequency of a plurality of radio frequencies, the combination of a movable frequency tuning element movable to various positions to tune corresponding frequencies, means to move said element for tuning purposes, a rotatable turret assembly including adjustable stop elements, mechanical means coupling said rotatable assembly to said movable frequency tuning element for



movement therewith in the same direction of motion, arresting means comprising an element for engagement with said stop elements and at positions corresponding to various frequencies to be tuned, together with manual means to move said arresting element while so engaged with the said rotatable assembly to thereby move said element and the movable frequency tuning element for correction purposes, substantially as described.

PATENTS

GRANTED MARCH 18, 1952

2,589,208
TERT-OCTYL DI(CYANOMETHYL)AMINE
W E Craig, Philadelphia, Pa., and Martin J. Culver, Cincinnati, Ohio, assignors to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware
No Drawing. Application December 1, 1950, Serial No. 198,726
1 Claim. (Cl. 260—465.5)

As a new compound, tert.-octyldicyanomethylamine, having the structure

$$(CH_3)_3CCH_2C(CH_3)_2N(CH_2CN)_2$$

2,589,209
DITHIOCARBAMATE-ALDEHYDE CONDENSATION POLYMERS
Otto Kardos, Leonardo, N. J., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey
No Drawing. Application September 4, 1948, Serial No. 47,940
1 Claim. (Cl. 260—72)

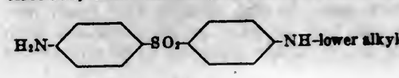
A condensation polymer comprising the reaction product of an aldehyde selected from the group consisting of formaldehyde, acetaldehyde, aldol, glyoxal and furfural, with an alkali metal dithiocarbamate of an alkylene polyamine selected from the group consisting of the alkylene diamines containing a straight chain of at least four carbon atoms between the amino groups and the polyalkylene polyamines containing straight chains of at least two carbon atoms between every two amino groups.

2,589,210
THERAPEUTIC COMPOSITIONS
Daniel A. McGinty, Grosse Pointe, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application September 24, 1945, Serial No. 618,403
11 Claims. (Cl. 167—65)

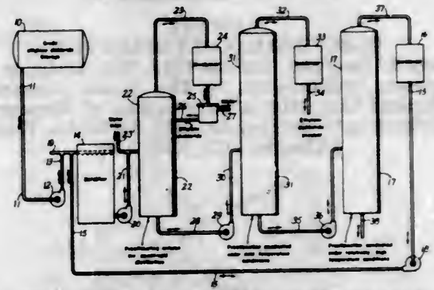
1. A therapeutic composition comprising purified fibrinogen and a water soluble penicillin salt of a metal selected from the class consisting of alkali and alkaline earth metals.

2,589,211
AMINOPHENYLSULFONYLPHENYLAMINO-ALKANOIC ACIDS
Albert L. Rawlins, Grosse Pointe Woods, Mich., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application November 23, 1948, Serial No. 61,742
5 Claims. (Cl. 260—397.6)

1. A compound of the class consisting of a carboxylic acid, water soluble salts thereof, lower alkyl esters of said acid, and water soluble salts thereof, said carboxylic acid having the formula,



2,589,212
PURIFICATION OF CRUDE ETHYLENE DICHLORIDE
Napoleon A. Agapetus, Port Neches, and Robert Repp Reese, Austin, Tex., and Loren P. Scoville, Crestwood, N. Y., assignors to Jefferson Chemical Company, Inc., New York, N. Y., a corporation of Delaware
Application November 8, 1949, Serial No. 126,214
10 Claims. (Cl. 202—40)



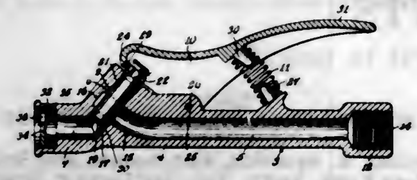
1. The process of purifying crude ethylene dichloride, which comprises at least three distillation treatments, in one of which the crude is distilled at a still bottom temperature corresponding to a temperature of from 200° to 260° F. under atmospheric pressure to separate the water therefrom, in another of which the substantially water-free crude is subjected to distillation at a still bottom temperature corresponding to a temperature of from 210° to 260° F. under atmospheric pressure to drive off overhead purified ethylene dichloride product containing from 30% to 70% of the ethylene dichloride in the water-free crude subjected to distillation, and in the third of which the residue from the distillation at a still bottom temperature of from 210° to 260° F. is subjected to distillation at a still bottom temperature corresponding to a temperature of from 275° to 350° F. under atmospheric pressure to effect separation of ethylene dichloride from higher boiling chlorinated materials.

10. In the process of purifying ethylene dichloride saturated with water, the improvement which comprises introducing into the distillation column from .1% to 1% by weight of additional water based on the weight of the saturated ethylene dichloride introduced into the column, distilling, taking off overhead vapors of an azeotropic mixture of ethylene dichloride and water, condensing the vapors, stratifying the condensate into ethylene dichloride and water layers, returning ethylene dichloride to the distillation column, removing the water, and withdrawing from the column a bottoms product substantially free of water.

2,589,213
NOZZLE FOR DRY POWDER EXTINGUISHERS
Frank B. Allen, Towaco, N. J., assignor to C-O-Two Fire Equipment Company, Newark, N. J., a corporation of Delaware
Application November 14, 1950, Serial No. 195,571
4 Claims. (Cl. 169—1)

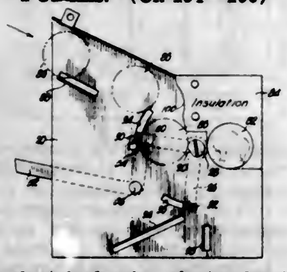
1. A nozzle for a dry powder fire extinguisher

comprising a housing having an outlet, the outer end of the outlet of enlarged cross section to provide an expansion chamber, and a baffle member positioned at the outer end of the enlarged



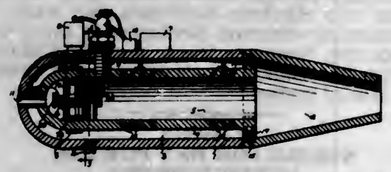
portion of the outlet to provide an outer wall for the expansion chamber, the end of the baffle member of generally Y shape and supported by the wall of the outlet.

2,589,214
ELECTRICAL COIN SELECTOR
Boley A. Andrews, Kansas City, Mo., assignor, by mesne assignments, to The Vendo Company, Kansas City, Mo., a corporation of Missouri
Application September 29, 1947, Serial No. 776,672
4 Claims. (Cl. 194—100)



1. In an electrical coin selector having a case, a relay in said case and means for energizing said relay upon placing a coin of predetermined character in a measuring position within said case; a coin chute formed in the case for guiding said coin to the measuring position; a rotatable member in said chute and normally disposed for restricting the passage of said coin beyond the measuring position; and structure interconnecting said member and said relay for moving the member to a coin releasing position upon energization of the relay, said chute having branches for receiving coins from the measuring position, said structure including a crank having means for directing a coin released by movement of said member to one of said branches.

2,589,215
JET ENGINE
John D. Atwood, Marion, Ill.
Application November 6, 1946, Serial No. 708,094
1 Claim. (Cl. 60—35.6)



In a jet engine, the combination which comprises a cylindrical outer casing having a closed arcuate end and a frustro-conical shaped open end, said frustro-conical shaped end providing a nozzle, an inner cylindrical casing having a closed arcuate inner end and an open outer end positioned in the said outer casing and spaced therefrom, the interior of said inner cylindrical casing providing a combustion chamber and the surrounding area between said inner cylindrical chamber and outer casing providing a vaporizing chamber, the open outer end of said inner cylindrical casing having a perforated annular flange thereon and the inner end of said casing having an opening therethrough, an air supply tube extended through the arcuate end of said outer casing and through the opening in the end of said inner casing, there being openings extended through the wall of the inner cylindrical casing providing communicating means between the vaporizing and combustion chambers, a transversely disposed perforated plate extended across the said inner cylindrical casing and spaced from the said arcuate inner end thereof, a shaft having a disc providing a solid plate on one end and having a flange on the opposite end carried by and longitudinally slidable in said plate, a spring on said shaft for urging the said solid plate inwardly and toward the said perforated plate, a spark plug extended through the walls of the inner and outer cylindrical casing and into the inner cylindrical casing, and a heating means positioned around the inner end of the said inner cylindrical casing, said outer cylindrical casing having a fuel inlet connection therein.

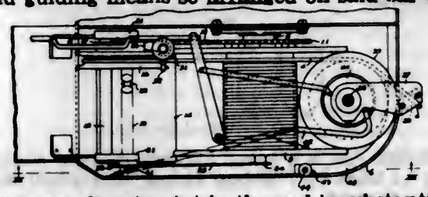
2,589,216
AIRCRAFT APPARATUS FOR SIMULATING A LINE OF SIGHT-DEFINING STRUCTURE
Waldemar A. Ayres, Kew Gardens Hills, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application November 23, 1943, Serial No. 511,418
11 Claims. (Cl. 343—11)



11. Apparatus mountable on an aircraft as an aid in piloting the craft comprising, in combination, instrument means responsive to flight conditions, cathode ray indicator means, means for depicting on said indicator means a simulated glide path comprising a series of circles of various sizes stereoscopically presented, stereoscopic means for viewing said circles whereby a tunnel of equal diameter rings having uniform spacing therebetween appears, and means for translating the responses of said instrument means into electron beam deflection potentials adapted to control the position of said rings and thereby alter the aspect of said simulated glide path in accordance with said responses.

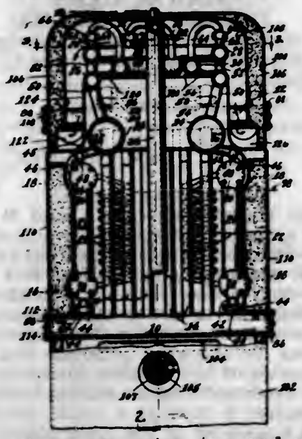
2,589,217
MINE SHUTTLE CAR
Charles F. Ball, Franklin, Pa., assignor to Joy Manufacturing Company, Franklin, Pa., a corporation of Pennsylvania
Application June 5, 1945, Serial No. 597,617
14 Claims. (Cl. 242—92)

1. The combination with an electrically driven mine shuttle car having an electric power cable connected thereto, of a cable reel rotatably carried by a front corner of the car, cable guiding means mounted in front of the reel, and a spooler mounted behind the reel, said cable extending from the reel back to the spooler and then forward past the reel to said guiding means with the free end of the cable adapted to be connected to a source of electric power, and said reel and said guiding means so arranged on said car that



the forwardmost point in the reel is substantially forward of the rear of said guiding means.

2,589,218
SECTIONAL DEMOUNTABLE STEAM GENERATOR
Carl E. Bishop, Carlisle, Iowa
Application August 31, 1948, Serial No. 47,030
6 Claims. (Cl. 122—209)

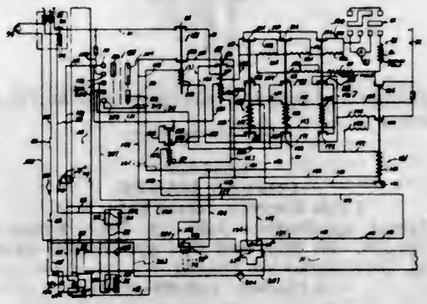


4. In a steam generator, two end units comprising upper and lower horizontal manifolds and vertical water tubes connecting them, two side units comprising upper and lower horizontal manifolds, vertical water tubes and steam generating coils connecting them, said steam generating coils being inside the space defined by said vertical tubes, a steam separator unit receiving steam from said end and side units, a steam collector unit arranged inside the space defined by said steam separator unit and connected therewith to receive steam therefrom, a series of steam superheating tubes located within the space defined by said steam collecting unit, receiving steam therefrom and carrying the steam in each series to a depending position in the combustion chamber between said end and side units, and baffle walls to confine the products of combustion in said combustion chamber to flow upwardly within said steam collecting unit and then over the outside of said steam separating unit.

2,589,219
METHOD OF STUDYING EARTH FORMATIONS EMPLOYING ACETYLENE AS A TRACER GAS
Donald C. Bond, Northbrook, and Michael Savoy, Chicago, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application April 24, 1947, Serial No. 743,728
5 Claims. (Cl. 23—232)

1. The method of studying earth formations in the neighborhood of an oil producing formation to determine their flow characteristics as an aid to the secondary recovery of oil therefrom comprising, injecting into the formation a fluid not reactive with acetylene under the conditions of operation, the fluid containing a small amount of acetylene, withdrawing a sample of said fluid from the earth formation at a point removed from the point of injection, and testing the fluid for the presence of acetylene.

2,589,220
BELT CONVEYER SYSTEM
Roger M. Buckeridge, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 7, 1949, Serial No. 86,079
18 Claims. (Cl. 198—82)

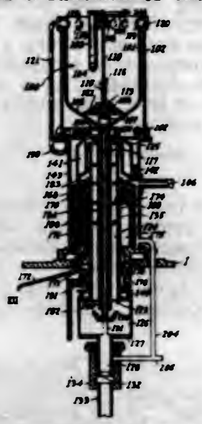


1. In an electrical control circuit for controlling the starting cycle of a motor driven inby unit of a conveyor system, a circuit including switch means operable in response to the speed of an outby unit of said conveyor system adapted to receive the discharge from said inby unit, a circuit for controlling the motor of said inby unit adapted to be energized upon operation of said first-named circuit, said second-named circuit including relays arranged in cascade relationship and having time delay characteristics for controlling the starting resistance of said motor, said relays being adapted to short out the amount of such resistance as said relays become deenergized, relay means operable to supply voltage to said motor during the starting operation and during normal running thereof, and a speed responsive switch operable in response to the proper speed of said inby unit for maintaining said last-named relay means in energized condition whereby said last-named relay means will continue to operate to supply voltage to said motor.

2,589,221
COFFEE MAKER
Louis Burgess, Jersey City, N. J.
Application July 12, 1947, Serial No. 760,599
13 Claims. (Cl. 99—289)

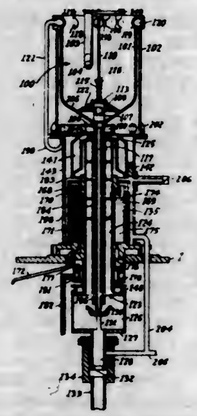
1. In a coffee maker having a timer controlled extraction and separating system of the kind including a centrifuge of the imperforate overflow self-dumping type, a receptacle for comingling hot water from a substantially continuous hot water supply with ground roasted coffee, a rundown tube extending from said receptacle into said centrifuge, the improvement in combination with such system of flow control means including means defining an orifice in the upper end of said rundown tube of lesser diameter than said rundown tube, the diameters of said orifice and of said rundown tube being so coordinated that on rundown a solid column of liquid is main-

tained in said rundown tube and flow through said orifice is a function of the total height of



the column of liquid in said receptacle and in said tube.

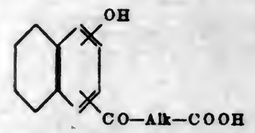
2,589,222
COFFEE MAKER
Louis Burgess, Jersey City, N. J.
Original application July 12, 1947, Serial No. 760,599. Divided and this application October 28, 1949, Serial No. 124,062
5 Claims. (Cl. 99—290)



1. In a coffee maker including a centrifuge of the imperforate overflow self-dumping type, a receptacle, means for co-mingling hot water with ground roasted coffee in said receptacle and a rundown tube extending from said receptacle into said centrifuge, the improvement of flushing means for said receptacle comprising nozzles adjacent the upper edge of the inner side wall of said receptacle directed tangentially and downwardly against the upper side wall of said receptacle and a valved pipe connected to said nozzles.

2,589,223
HYDROXY-TETRAHYDRO-NAPHTHOYL-ALKANOIC ACIDS
Robert R. Burtner, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application February 12, 1949, Serial No. 76,206
9 Claims. (Cl. 260—520)

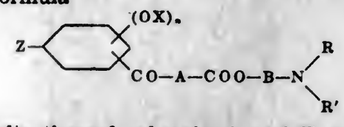
1. A member of the group consisting of a hydroxy-tetrahydronaphthoylalkanoic acid of the formula



wherein Alk is a lower alkylene radical containing at least two carbon atoms, and alkali metal salts thereof.

2,589,224
BASIC ESTERS OF SUBSTITUTED BENZOYL-ALIPHATIC ACIDS AND SALTS THEREOF
Robert R. Burtner, Skokie, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application May 3, 1950, Serial No. 159,860
19 Claims. (Cl. 260—473)

10. A member of the class of new organic compounds which consists of the bases of the structural formula

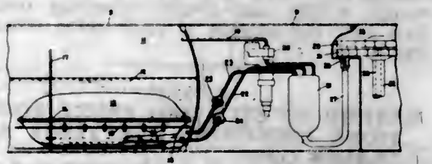


and salts thereof, wherein A and B are lower bivalent aliphatic hydrocarbon radicals containing at least two and not more than eight carbon atoms, X is a lower alkyl radical, *n* is an integer smaller than three, NRR′ is a member of the class consisting of lower dialkylamino radicals and saturated, monocyclic, heterocyclic radicals containing in the ring nitrogen and no additional species of hetero atom other than oxygen, the said heteromonocyclic radical being attached to the radical B through a cyclic nitrogen atom, and Z is a member of the class consisting of cycloalkyl radicals containing at least five and not more than six cyclic carbon atoms and radicals of the structural formula

Cycloalkyl—Y—

wherein the cycloalkyl radical contains at least five and not more than six carbon atoms and Y is a lower, bivalent, aliphatic hydrocarbon radical containing not more than eight carbon atoms.

2,589,225
WAKELESS TORPEDO
Robert H. Canfield, Washington, D. C.
Application September 14, 1936, Serial No. 100,684
8 Claims. (Cl. 114—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

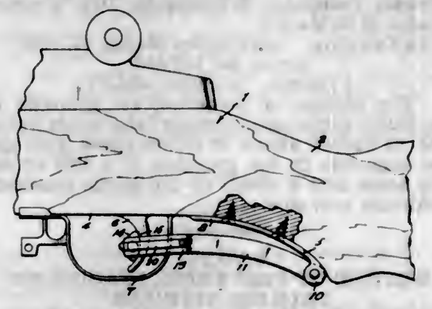


1. In a thermal power system using substantially pure oxygen as a supporter of combustion, a flask to contain water and oxygen under pressure, a collapsible container for fluid fuel in said flask whereby said fuel is held under the same pressure as are said oxygen and water, a combustion device to burn said fuel in the presence of oxygen and water, means to supply oxygen, fuel and water to said device in suitable proportions, a prime mover connected to said device to receive products of combustion therefrom and to be driven by said products, and means connected to lubricate said prime mover with an unctuous aqueous liquid that is non-reactive with oxygen for an interval at the beginning of operation of said prime mover and thereafter to lubricate said prime mover with oil, said lubricating means including a container having in it a volume of said liquid and a supernatant volume of oil.

2,589,226
ACYLATION OF POLYSACCHARIDES IN FORMAMIDE
John F. Carson, Berkeley, Calif., assignor to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application November 22, 1946, Serial No. 711,762
13 Claims. (Cl. 260—209.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

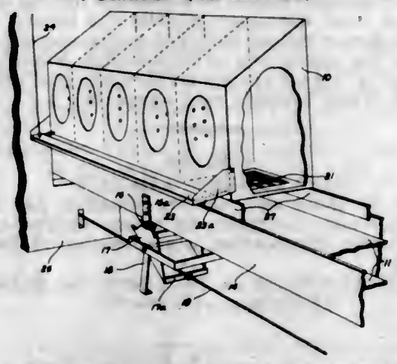
1. The process of acylating a polysaccharide, which is soluble in dilute alkali, comprising subjecting such a polysaccharide, dispersed in formamide, to reaction with an aliphatic acid anhydride in the presence of a tertiary amine at a temperature no higher than about 50° C.

2,589,227
TRIGGER CONVERSION DEVICE FOR RIFLES
Martin H. Colley, Big Delta, Territory of Alaska, assignor to the United States of America as represented by the Secretary of the Army
Application December 27, 1949, Serial No. 135,214
4 Claims. (Cl. 42—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



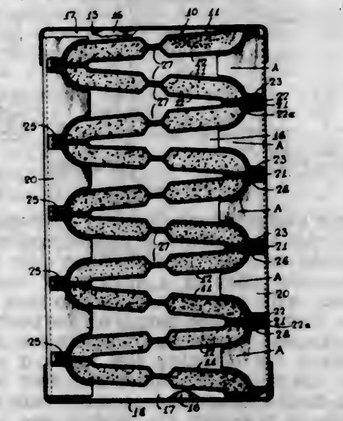
1. In a rifle provided with a shoulder stock having a hand grip formed therein adjacent the trigger of said rifle, said trigger projecting downwardly from the underside of said stock and surrounded by a trigger guard, a trigger conversion device comprising a pair of pivoted arms, one of said arms fastened to the underside of said grip and formed at one end with a pair of ears pivotally supporting the rear end of a second arm, the forward end of said second arm terminating in a yoke embracing said trigger and guard, said yoke being perforated adjacent its free ends, a trigger engaging block, a pin pivotally supporting said trigger engaging block received in said perforations, said block being triangular in cross section and having its trigger engaging base curved to conform to the shape of said trigger and in slidable engagement with said trigger.

2,589,228
POULTRY NEST APPLIANCE
Nat Cordis, Silver Lake, Wis.
Application December 12, 1947, Serial No. 791,365
7 Claims. (Cl. 119—48)



1. In a poultry nesting device characterized by having at least one nesting chamber provided with a roof, side walls, rear wall and an apertured front wall, the improvement which comprises a nesting chamber floor having apertures therein, said apertures being at least as large as the greatest diameter of an egg whereby an otherwise unsupported egg may readily pass through any of said apertures, a belt-like sub-floor disposed immediately beneath said chamber floor for supporting eggs within said chamber, said sub-floor being mounted on a vertically adjustable frame, means operatively associated with said sub-floor for lowering said frame to position said sub-floor below and spaced from said chamber floor, whereby said chamber floor and said belt-like sub-floor cooperate, when the latter is elevated, to provide an egg-supporting and nesting material-supporting base to said nesting chamber and whereby said belt-like sub-floor, when the latter is lowered, provides an egg-supporting and nesting material-supporting surface beneath and outside of said nesting chamber.

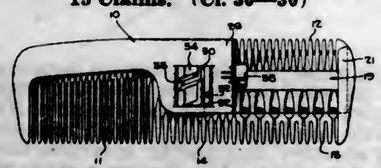
2,589,229
ADSORBING DEVICE
George S. Dauphinee, Brooklyn, N. Y., assignor, by mesne assignments, to W. B. Connor Engineering Corporation, New York, N. Y., a corporation of New York
Application August 14, 1946, Serial No. 690,551
6 Claims. (Cl. 183—4.6)



2. A device for adsorbing adulterants having an intake side and an outlet side for permitting

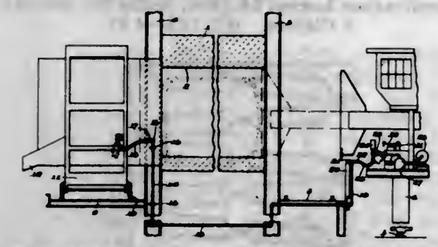
circulation of air through said device, comprising an adsorbing element penetrable by the circulated air and having side walls converging towards the intake side of said device and defining an intermediate space, said element having a restricted inlet opening adjacent the intake side of said device and an enlarged outlet opening adjacent the outlet side of said device, whereby a portion of the air circulated through said device will be jetted through said elements.

2,589,230
HAIR TRIMMING DEVICE
Roy P. M. Davis and Norbert Shaeffer, Los Angeles, Calif., assignors, by mesne assignments, to Cutter Corporation, a corporation of Delaware
Application March 21, 1949, Serial No. 82,656
15 Claims. (Cl. 30—30)



13. In a hair trimming device, the combination of a comb body, a blade carrier mounted for sliding movement transverse of the comb body, a rotary element on the comb body cooperating with an element on the carrier for moving the carrier on the comb body, a retainer insertable as a unit with the blade carrier into operative position on the comb body, a stop element on the retainer limiting relative movement of the carrier, the retainer having a lug engageable under a portion of the rotary element for maintaining the retainer in operative position, the rotary element having a slot in its periphery providing clearance for the lug when the retainer is inserted.

2,589,231
PUSHER MACHINE AND COKE GUIDE INTERLOCK
John W. Drake, Leetsdale, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
Application January 11, 1947, Serial No. 721,620
In Great Britain January 16, 1946
14 Claims. (Cl. 214—23)



1. Horizontal coke oven battery coke-discharging apparatus comprising, a pusher machine and a coke guide machine movable from oven to oven along opposite sides of a battery of horizontal coke ovens, with a ram mounted on said pusher machine, electric switch means on the pusher machine normally rendering inoperative electric driving gear for effecting the forward pushing stroke of the pusher machine ram, fluid pressure operated means adapted to operate said electric switch means to enable the pusher ram to make its forward stroke, fluid pressure lines individualized to the respective ovens, a source of fluid pressure for supplying fluid under pressure to the fluid pressure lines, to energize the fluid pressure operated means to operate the electric switch, means to connect the source of fluid pressure individually with the individual fluid pressure lines, and means for impressing the pressure of the fluid of the individual lines onto the fluid pressure operated means that is to operate said electric switch means; and in which the source of fluid under pressure, and the means to connect the same individually with the individual fluid pressure lines, are carried by, for travel from oven to oven with, one of said machines, and the means for impressing the pressure of the fluid of the individual lines onto the fluid pressure operated means that operates the electric switch means, is carried by, for travel from oven to oven with, the other of said machines, and in which the means to connect the source of fluid under pressure with the individual fluid pressure lines and the means for impressing the fluid pressure, are such that they individually can be operatively connected to only the pipe line of one oven at a time, and are necessarily individually operatively disconnected from the individual pipe lines whenever the machines carrying them are individually out of alignment with the ovens associated with the respective pipe lines, whereby to permit pushing of any of the ovens only when both the coke guide machine and pusher machine are aligned with one and the same oven of the battery, and to prevent accidental pushing of any of the ovens whenever one machine is aligned with any one of the ovens but the other is not simultaneously also in alignment therewith for the coke pushing operation of said oven.

2,589,232
METHOD OF PREPARING STABILIZED FATTY ACID NITRILES
John Drew, De Ridder, La., and Joe C. Funderburk, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 14, 1950, Serial No. 149,655
9 Claims. (Cl. 260—465.2)

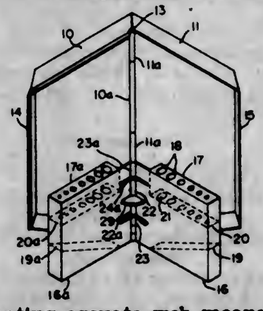
1. The process of preparing an aliphatic nitrile which comprises reacting fatty acids having 12 to 18 carbon atoms in liquid phase with gaseous ammonia in the presence of a salt of said fatty acids and a metal of the group consisting of calcium and zinc.

2,589,233
METHOD OF PREPARING STABILIZED TALL OIL NITRILES
John Drew, De Ridder, La., and Joe C. Funderburk, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 14, 1950, Serial No. 149,656
6 Claims. (Cl. 260—97.5)

1. The process of preparing tall oil nitrile which comprises reacting tall oil in liquid phase with gaseous ammonia in the presence of a metal salt of tall oil carboxylic acids wherein said metal is a metal of group II of the periodic table.

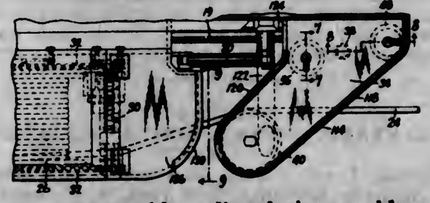
2,589,234
COMBINATION TOOL STAND AND CASE
Laurence H. Drohman, Chicago, Ill.
Application January 2, 1947, Serial No. 719,723
3 Claims. (Cl. 206—17)

2. In a combination drill stand and case, a pair of cover members each comprising a flat right trapezoidal wall with a peripheral flange means extending inwardly therefrom, the flanges at the top, front, and bottom edges of said walls being perpendicular to the wall and the flange at the rear edge of each said wall extending obtusely thereto, the flanges along the bottom edges of said walls forming a base for said case, a vertical hinge means including a hinge rod joining said obtusely extending flanges on the rear edges of said walls, a pair of drill support panels hinged to said rod and adapted to be wholly enclosed within said cover members, vertically spaced open slots in each of said support panels extending in planes perpendicular to the axis of said hinge rod, at least one slot in each support panel being in alignment in the same plane with a corresponding slot in the other



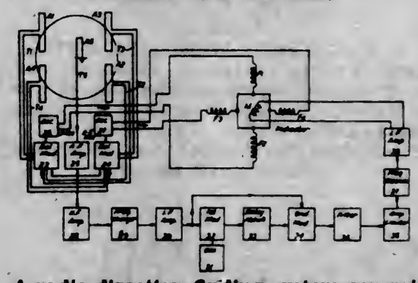
panel, a floating arcuate web means pivoted to said hinge rod and passing within said aligned slots, a second arcuate web means fixed to the first of said cover members and passing within another of said slots in a first of said panels, a third arcuate web means fixed to the second of said cover members and passing within another of said slots in a second of said panels, the length of said slots being greater than the radial extent of the respective arcuate web in said slots, a pair of angularly spaced stop means carried by said floating arcuate web adapted to engage the remote surfaces of the said drill support panels, and stop means carried by each of said fixed arcuate web means adapted to engage the respective panel on a surface remote from the cover member to which the corresponding arcuate web is fixed.

2,589,235
REELING DEVICE
Victor I. Dudley, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 15, 1948, Serial No. 33,060
10 Claims. (Cl. 242—91)



1. In a power cable reeling device, a cable reel, a pair of spaced apart normally fixed guide members arranged to constrain a moving cable in a given plane between said members as it winds onto or off said reel, a bead secured to each of the guide members in position to contact the moving cable, each bead being of a thickness substantially greater than the thickness of its associated guide member, and a plurality of rotatable guide members mounted between the spaced guide members so as to constrain the moving cable within the aforesaid plane.

2,589,236
RADIO DIRECTION FINDING SYSTEM
Charles William Earp, Aldwych, London, England, assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 11, 1945, Serial No. 610,357
In Great Britain August 15, 1944
4 Claims. (Cl. 343—121)



1. A radio direction finding system comprising a directional antenna system and an omni-directional antenna system for receiving transmitted waves, the amplitude of the output of the directional antenna system depending upon the angular relation between its directional pattern and the direction of propagation of the received waves, a source of low frequency waves, means for amplitude modulating the output from the directional antenna system with said low frequency waves comprising a pair of valves symmetrically arranged as a self-oscillating balanced modulator, means for combining only the side bands of the modulation products in phase quadrature with the output from the omni-directional antenna system to provide the phase modulated wave, a phase or frequency demodulator, means for applying the combined waves to said frequency or phase demodulator to obtain a wave corresponding to the phase modulation, means for utilizing said last-named wave to obtain the desired bearing information.

2,589,237
VINYL CHLORIDE-ALLYL GLYCIDYL ETHER COPOLYMERS
Ellsworth Knowlton Ellingboe, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 25, 1950, Serial No. 181,583
2 Claims. (Cl. 260—87.5)

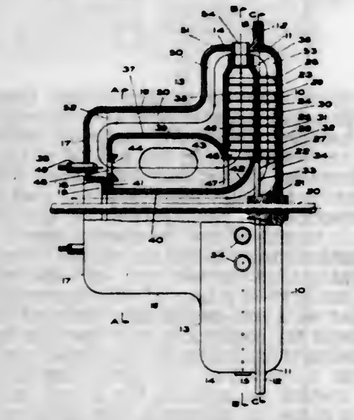
1. A copolymer, the polymeric components of which essentially consist of, by weight, 75% to 85% of polymerized vinyl chloride and 15% to 25% of polymerized allyl glycidyl ether, said copolymer having a viscosity, in 30% cyclohexanone at 25° C., between about 1.3 and about 3 poises.

2,589,238
REMOVING OIL FROM VEGETABLE MATERIAL
Arthur E. Eriksen, Delhi, Calif.
Application September 29, 1948, Serial No. 51,758
3 Claims. (Cl. 260—412.2)

1. A process for removing oil from oil bearing vegetable material containing insoluble mineral

compounds comprising comminuting the vegetable material, mixing the comminuted vegetable material with a cation exchange resin containing hydrogen ions to supplant the mineral ions in the insoluble compounds with hydrogen ions of the cation exchange resin and thus change the insoluble compounds to soluble organic substances, dissolving said soluble organic substances in water to weaken the cells of the vegetable material, extracting the cation exchange resin from the mixture in combination with the mineral ions removed thereby, and extracting the oil from the resultant remaining mixture.

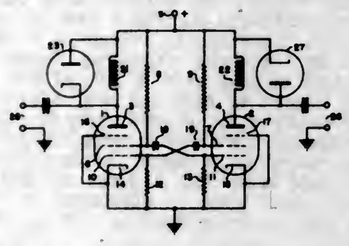
2,589,239
TURBINE-COMPRESSOR UNIT
Eduardo Fallon, Cartagena, Colombia, assignor, by direct and mesne assignments, of one-half to Malcolm Mitchell, New York, N. Y., and one-half to Carlos Fallon, Washington, D. C.
Application May 16, 1945, Serial No. 593,978
6 Claims. (Cl. 60—39.75)



1. A turbine-compressor unit comprising a stator having side and peripheral walls defining an annular chamber, a rotor disposed on the axis of said stator and including a circular disc spaced between said side walls and having oppositely projecting blades, said rotor being made of metal of high thermal conductivity, the blades on one side of the disc being constituted as turbine blades and those on the other side as compressor blades, the stator having an axial air inlet to the compressor blade side of said disc and the stator including a radial wall of metal of high thermal conductivity between the turbine blade side of the rotor disc and the adjacent side wall, said radial wall having a central inlet for propulsion gases and including an annular flange projecting toward the rotor disc periphery and having a running clearance therewith, said flange being spaced from said peripheral wall, and spaced apart tubular exhaust members connecting openings in said flange with openings in said peripheral wall.

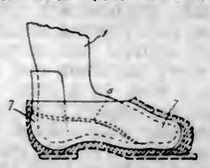
2,589,240
DOUBLE PULSE GENERATOR
William E. Frye, Washington, D. C.
Application April 7, 1945, Serial No. 587,198
5 Claims. (Cl. 250—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

5. A signal generating circuit comprising a pair of tubes having two main space current electrodes and inner and outer grids, circuit means connecting the inner grid of each tube to the outer grid of the other tube to form a multivibrator circuit wherein the outer grids act as anodes, resonant circuit means connected in main space current carrying relationship with one of said



electrodes of at least one of said tubes, and unilateral impedance means shunting said resonant circuit means to damp the oscillations induced in said resonant circuit means by the multivibrator action.

2,589,241
PROCESS FOR CORRECTING FOOT DEFORMITIES
Leonard B. Galhouse and Hillis N. Lurie, Chicago, Ill.
Application September 16, 1946, Serial No. 697,282
2 Claims. (Cl. 12—146)

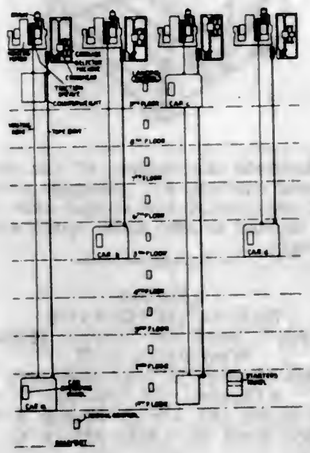


1. The method of forming a foot corrector to be worn in a shoe which consists in taping the foot, forming a plaster of Paris form upon the foot of quick setting impressionable material, removing said form from the foot and filling same with a plastic material which promptly sets to a non-plastic form retaining its shape and forming a model, forming a shell by applying a moldable impressionable quick setting material to said model, removing said shell and inserting same in a shoe and walking thereon, removing the foot and pouring quick-setting plaster of Paris of putty-like consistency into the shell to fill same, removing said shell and imbedding same in a plastic material in a sectional flask and allowing same to set, separating the flask sections and removing the shell only, filling the cavity impression in the mold with plastic material, reassembling the flask and immersing same in warm water and then bringing same to the boiling point and cooling the resulting plastic slipper.

2,589,242
ELEVATOR DISPATCHING AND CONTROL SYSTEM
William Frank Glaser, Eastchester, and Stephen Anthony Hornung, New York, N. Y., assignors to Otis Elevator Company, New York, N. Y., a corporation of New Jersey
Application April 12, 1950, Serial No. 155,462
94 Claims. (Cl. 187—29)

90. A dispatching and control system for a plurality of elevator cars comprising; dispatching control circuits for each car; a manually operable switch for each car for controlling said dispatching control circuits for that car to place

that car under dispatching or to remove it from dispatching; an electromagnetic switch for each car controlled by said manually operable switch for that car; an electroresponsive device; a control circuit for said electroresponsive device including a pair of breaking contacts on each of said electromagnetic switches connected in series relationship in a given sequence of said electromagnetic switches in a circuit, an additional pair of breaking contacts on each of said electromagnetic switches except the end ones in said sequence connected in series relationship in the

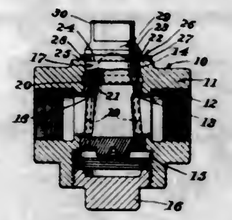


same switch sequence in an additional circuit, and making contacts on each of said electromagnetic switches interconnecting said series circuits so as to break the circuit for said electroresponsive device when the number of cars under dispatching is odd and to complete such circuit when the number of cars under dispatching is even; timing mechanism for initiating the up and down dispatching operations; and means controlled by said electroresponsive device for determining whether the up and down dispatching operations are initiated alternately or simultaneously.

2,589,243
MODIFIED SILOXANE-ALKYD COPOLYMERS
John T. Goodwin, Jr., and Melvin J. Hunter, Midland, Mich., assignors to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application March 15, 1950, Serial No. 149,884
2 Claims. (Cl. 260—18)

1. A composition of matter resulting from the reaction of 760 parts by weight of an alkoxylated organo polysiloxane, 288 parts by weight 2-ethyl hexoic acid, 78 parts by weight 12-hydroxy stearic acid, and 174 parts by weight glycerine, said alkoxylated polysiloxane having 70 per cent of its silicon atoms bearing a phenyl and a methyl group, 30 per cent of its silicon atoms bearing a phenyl group, the remainder of the silicon-bonded organic groups consisting of alkoxy groups of 1 to 5 carbon atoms, such alkoxy groups amounting to 36.5 to 39.5 per cent by weight of said polysiloxane.

2,589,244
METER STOP
Wallace E. Gould, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application May 9, 1945, Serial No. 592,845
4 Claims. (Cl. 251—93)

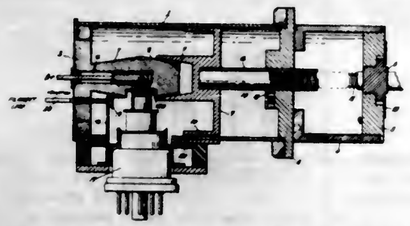


3. In combination, a casing including a flow line and a tapered seat extending transversely of the flow line, a tapered plug rotatable in the seat, a lubricant chamber at the larger end of the casing seat and open to the larger end of the plug, means associated with said chamber to create pressure upon lubricant therein to move the plug toward the seat and hold it seated, the smaller end of the seat being open to the exterior of the casing, the smaller end of the plug projecting out of the smaller end of the seat to be accessible for sealing pressure, said projecting portion of the plug including an operating shank at the extreme outer end thereof, a tapered portion inwardly of said shank and of a diameter which increases toward the casing and a circumferential groove inwardly of said tapered portion, and a resilient element having one portion thereof extending within said groove and another portion thereof bearing on the adjacent portion of the casing, said resilient element being radially expandable by inward movement along said tapered portion of the projecting portion of the plug.

2,589,245
AMIDE-EPOXIDE COMPOSITIONS, ETC.
Sylvan Owen Greenlee, Louisville, Ky., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York
No Drawing. Application December 3, 1945, Serial No. 632,595
7 Claims. (Cl. 260—47)

1. Amide-epoxy compositions containing in substantial amounts complex resinous epoxides and organic carboxylic acid amides free from reactive groups other than the acid amide groups and having a plurality of active hydrogens on such amide groups, said complex resinous epoxides being polymeric polyethers of dihydric phenols, which dihydric phenols are free from functional groups other than phenolic hydroxyl groups, said resinous epoxides having a plurality of aromatic nuclei alternating with intermediate and terminal aliphatic chains united through ether oxygen, the aromatic nuclei being the hydrocarbon nuclei of the dihydric phenols, the intermediate aliphatic chains being alcoholic-hydroxyl-containing chains free from functional groups other than alcoholic hydroxyl groups and the terminal aliphatic chains having epoxide and alcoholic hydroxyl groups and being free from other functional groups.

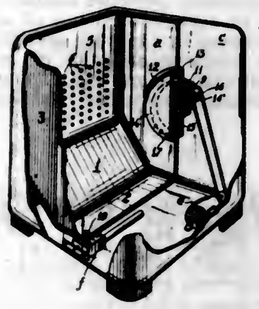
2,589,246
OSCILLATOR
Henry H. Grimm, Dayton, Ohio, assignor to the United States of America as represented by the Secretary of War
Application December 29, 1944, Serial No. 570,421
3 Claims. (Cl. 250—36)
amended April 30, 1928; 370 O. G. 757)
(Granted under the act of March 3, 1883, as



1. A cavity oscillator including a cylindrical body, a first member connected to and forming a closure at one end of said cylindrical body, said first member being provided with a stationary stub extending within said cylindrical body concentrically therewith, said stub having a conical surface on the end thereof, connecting means disposed within and insulated from said stub, said connecting means cooperating with said stub to form a coupling condenser having a low reactance to the radio frequency energy generated by said oscillator, an electron tube having a cathode, an anode and a control electrode, means insulated from said stub for connecting said anode to said connecting means, means for connecting a source of space-current voltage between said connecting means and said first member, a first condenser element connected to said control electrode and arranged in spaced relationship with respect to said cylindrical body, a second condenser element connected to said anode, a third condenser element connected to said cathode and arranged in spaced relationship with respect to said second element, a second member longitudinally movable within said body relative to said stub and provided with a fourth condenser element cooperating with the conical surface of said stub, said second member also carrying a cylindrical flange in spaced relationship to said cylindrical body to form a fixed condenser, and means for moving said movable member.

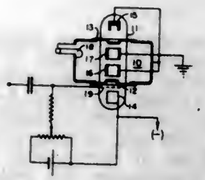
2,589,247
PUMP OPERATED RECIRCULATION WASHING MACHINE
Alfredo Gusseti and Marcos Almasso, Córdoba, Argentina
Application February 20, 1950, Serial No. 145,194
In Argentina July 6, 1949
7 Claims. (Cl. 68—184)

1. A washing machine comprising a forced circulation pump having an intake and an outlet, a receptacle for a washing liquid having a pair of spaced opposed side faces, a rear wall, a front wall and a bottom, each of said opposed faces having a plurality of orifices spaced apart and distributed over a relatively large area of said side faces, a water box mounted on the outside of said receptacle on each of said side faces and communicating with the interior of the receptacle through said orifices, whereby the volumetric capacity of said receptacle is considerably increased, said pump being mounted on said rear wall outside the receptacle, a return conduit connecting each water box with the intake of said pump, said conduit having a cross-section which decreases in the direction of circulation of said liquid, and a plurality of differently directed passages in said rear wall and in communication with the outlet of the pump, said passages being



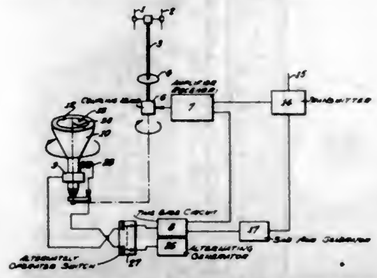
oriented towards the bottom of the receptacle, whereby said passages may generate a rotational motion of said liquid, the virtual axis of which motion is normal to said water boxes and passes therethrough.

2,589,248
SIGNAL GENERATOR
Andrew V. Haeff and Thure E. Hanley, Washington, D. C.
Application January 11, 1946, Serial No. 640,636
8 Claims. (Cl. 250—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



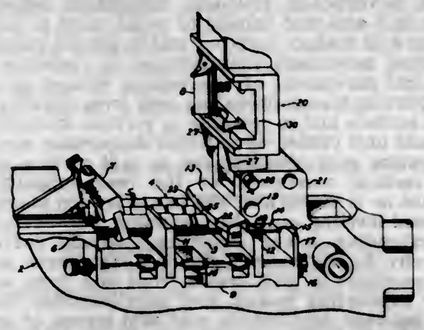
3. A high frequency oscillation generator system, comprising; a rectangular resonant cavity structure, a velocity modulation type electron tube for supplying energy to the cavity structure, voltage variation means adjusting the operating frequency of the electron tube, an external energy consuming device, an output coupling device having two serially connected attenuators placed between the resonant cavity and the external energy consuming device, the first of said serially connected attenuators reducing the output power produced by the oscillation generator to a reference level, said first attenuation means comprising a pair of concentric telescopic wave guide means, one of said wave guide means having a reduced portion, a conducting member mounted in said reduced portion and insulated from said pair of concentric telescopic wave guide means and a measuring means comprising a temperature variable resistor coupled between the said one of said wave guide means and said conducting member, the second of said serially connected attenuators causing adjustable power reduction below said reference level, and a calibration scale associated with the second attenuator for indicating the attenuation produced by the second attenuator below the reference power level established by the first attenuator.

2,589,249
DIRECTION AND DISTANCE FINDING EQUIPMENT
René Jean Hardy, Lyon, France, assignor to International Standard Electric Corporation, New York, N. Y.
Application March 7, 1941, Serial No. 382,151
3 Claims. (Cl. 343—11)



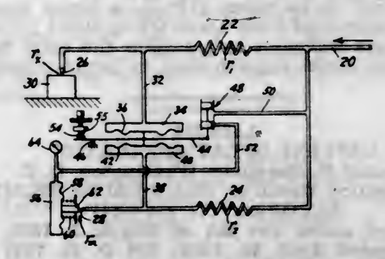
1. A direction and distance finding equipment comprising a radio pulse generating and transmitting arrangement, a manually rotatable directive wave collector, a pulse receiving arrangement coupled with said collector for receiving pulses which are reflected back from obstacles situated within the field of said pulse transmitter, a cathode ray oscillograph indicator, means for creating on said indicator a time base reference for the distance indications, means for creating on said oscillograph a time base for the direction indications, means for alternatively applying said time reference to said indicator, means for modulating said distance base with the reflected pulses to produce fixed indications and means for modulating said direction base according to the rotation of said wave collector to produce direction indications which are displaced together with the rotation of said wave collector, the correct indication of direction being the one corresponding to the position of said wave collector for which the related distance indication disappears on said indicator.

2,589,250
SHORT ROUND DEVICE
Robert C. Heenan, Springfield, Mass.
Application April 18, 1946, Serial No. 662,992
2 Claims. (Cl. 89—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. A short-round corrector for a machine gun having a transverse ammunition feed passage through which an ammunition belt may operatively pass from one side of the gun to the other, said corrector comprising a generally flat body portion terminating rearwardly in a downturned lip uniformly curved convexly in two planes so that the central portion of said lip is positioned downwardly and rearwardly with respect to the ends thereof, a pair of resilient arms integral with and extending forwardly from, the respective forward corners of said body portion, each said arm terminating forwardly in a downward extension having an aperture in its end, said corrector when assembled in a gun having its lip positioned to engage and accurately position the forward upper edges of the ammunition belt as it traverses the feed passage of the gun.

2,589,251
FLUID OPERATED MEASURING OR CONTROL APPARATUS
Winfield B. Heinz, Bound Brook, N. J., assignor, by mesne assignments, to Reconstruction Finance Corporation, Philadelphia, Pa., a corporation of the United States
Application August 24, 1945, Serial No. 612,585
8 Claims. (Cl. 73—37.5)



1. In combination, a pair of fluid resistances, means for supplying fluid to said resistances in parallel, means providing variable resistances in series with the respective first mentioned resistances for the reception of fluid flowing therefrom, means responsive to a pressure difference between the respective junctions of the first and second mentioned resistances, and means including a fluid relay device operable by the last mentioned means to adjust one of the second mentioned resistances to produce a predetermined value of said pressure difference.

2,589,252
PROCESS FOR METAL RECOVERY
Clark C. Heritage, Cloquet, Minn., and William G. Van Beckum, Longview, Wash., assignors to Weyerhaeuser Timber Company, Longview, Wash., a corporation of Washington
No Drawing. Application December 7, 1946, Serial No. 714,900
9 Claims. (Cl. 260—124)

1. The process comprising subjecting lignocellulose material in a defibered state to the action of a dilute aqueous solution of a basic-acting compound of an alkali metal and thereby dissolving from said lignocellulose material a lignin consisting of carbon, hydrogen and oxygen, said lignin being insoluble in dioxane and incapable of being precipitated from an alkaline solution by reaction with carbon dioxide, concentrating the so-produced lignin solution, acidifying the latter to a pH of about 1.5 whereupon a lignin product is precipitated leaving a residual solution, separating said lignin precipitate from said residual solution, forming an aqueous solution from said lignin precipitate, said aqueous solution containing a lignin material selected from the group consisting of water-soluble lignic acid and water-soluble salts of lignic acid, reacting said aqueous solution with a solution of a salt of a metal which

forms a water-insoluble metal lignate whereupon a metal lignate is precipitated, and recovering said precipitate.

2,589,253

ALKYLATION OF AROMATIC COMPOUNDS

George L. Hervert, Berwyn, and Herman S. Bloch, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application January 30, 1946, Serial No. 644,441
6 Claims. (Cl. 260—671)

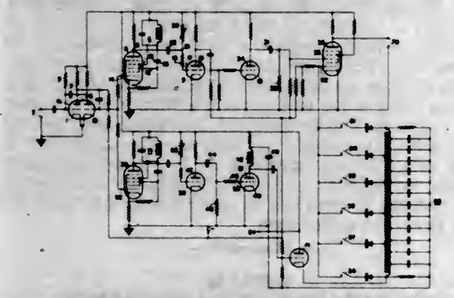
1. An alkylation process which comprises commingling an alkyl benzene having at least one substitutable nuclear position with a normally liquid monoolefin containing at least 8 carbon atoms per molecule in the molal ratio of alkyl benzene to olefin of at least 4 to 1, and subjecting the resultant mixture to the action of a calcined composite of a free acid of phosphorus and a siliceous adsorbent at a temperature of from about 150° C. to about 375° C., a liquid hourly space velocity of from about 0.1 to about 10, and a pressure sufficient to maintain the alkyl benzene and olefin substantially in liquid phase.

2,589,254

IMPULSE DELAY APPARATUS

Conrad H. Hoeppner, Washington, D. C.

Application March 18, 1946, Serial No. 655,357
16 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The method of generating a delayed signal comprising, receiving an input signal, producing in response to said input signal two non-harmonically related recurrent signals of different frequency which initially have a first predetermined phase relation, combining said two recurrent signals, and producing responsively to said two recurrent signals an output signal only when they assume a second predetermined phase relation.

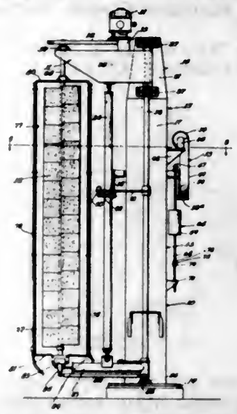
2,589,255

TWO-WAY CAR WASHER OF THE ROTARY POWER-DRIVEN BRUSH TYPE

Louis D. Holmes, Blue Island, Ill., assignor to Whiting Corporation, Harvey, Ill., a corporation of Illinois

Application June 10, 1946, Serial No. 675,698
10 Claims. (Cl. 15—53)

1. An apparatus adapted to wash a vehicle as the latter moves by it and comprising a supporting structure adjacent the path of movement of the vehicle, an elongated rotary power driven brush, a mounting for the brush supported on the structure so that it together with the brush is capable of being swung laterally towards and away from the vehicle to be washed, and means for swinging the brush mounting back and forth, embodying a rock shaft journalled on the supporting structure, a crank arm connected fixedly



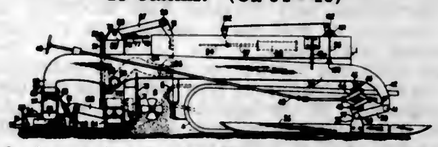
to, and radiating from, the rock shaft, and a rigid link having one end thereof pivotally connected to the distal end of the crank arm and its other end pivotally connected to the mounting.

2,589,256

ROAD-PAVING MACHINE

Harold R. Horning, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application July 1, 1948, Serial No. 36,463
18 Claims. (Cl. 94—46)



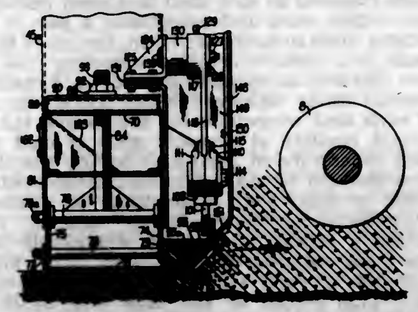
1. Apparatus for leveling material and forming a desired surface thereon comprising a vehicle having supporting means for operating on the surface to which said material is to be applied, a leveling unit moved along by said vehicle, said leveling unit including supporting means adapted to ride along said surface for supporting the front end of said unit, and supporting means adapted to ride on the newly leveled material for supporting the rear end of said unit, a vertically yieldable connection between said unit and said vehicle to cause them to move along said surface together and to permit relative vertical movement therebetween in response to vertical movement of the vehicle caused by its supporting means operating over irregularities in said surface and in response to vertical movement of said unit caused by its front supporting means operating over irregularities in said surface and by vertical movement of the rear supporting means as it moves over the newly leveled material, said leveling unit also including a transversely extending screed structure pivotally carried thereby for movement about a transverse axis intermediate of and spaced from said front and rear supporting means, and parallelogram linkage between said vehicle and said screed of said unit for controlling pivoting of the screed about said transverse pivot axis to maintain said screed substantially vertical regardless of the vertical movement of either end of said unit caused by said supporting means operating over irregularities.

2,589,257

ROAD-FINISHING MACHINE

Harold R. Horning, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio

Application July 1, 1948, Serial No. 36,464
16 Claims. (Cl. 94—45)



6. A screed structure comprising a transversely fixed surfacing member for imparting a smooth surface to the material being acted upon, a cutter bar disposed at the forward edge of said surfacing member, means for oscillating said cutter bar transversely relative to said surfacing member, said cutter bar having a serrated material-engaging face which is directed downwardly and rearwardly to a point substantially level with the lower surface and contiguous with the forward edge of said surfacing member, and a vertically disposed material-engaging plate in front of said cutter bar, said plate having its lower edge inclined downwardly and rearwardly so that it is substantially continuous with said face of said cutter bar and will direct the material thereto as the screed structure is forced into the material.

2,589,258

HYDRAZOBISALKANESULFONATE POLYMERIZATION CATALYST FOR ETHYLENICALLY UNSATURATED MONOMERS

Edward G. Howard, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 1, 1950, Serial No. 141,867
10 Claims. (Cl. 260—92.8)

1. In the aqueous dispersion polymerization at temperatures within the range from −20° C. to 60° C. of an ethylenically unsaturated monomer subject to addition polymerization, the improvement wherein said monomer is polymerized by bringing a dispersion of said monomer in contact with (1) a polyvalent heavy metal ion of the class consisting of cupric and ferric ions, (2) a peroxide and (3) a hydrazodisulfonate ion

$$—O_3SRNHNHRSO_3—$$

wherein R is a divalent hydrocarbon radical.

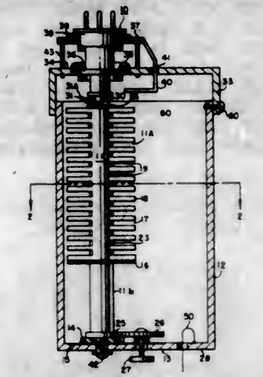
2,589,259

RADIO-FREQUENCY CIRCUIT

Frank C. Isely, Washington, D. C.

Application August 13, 1948, Serial No. 44,210
5 Claims. (Cl. 178—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A radio frequency circuit comprising, a pair of substantially coextensive, parallel conductors dimensioned to form a resonant line of an odd multiple, greater than unity, quarter wave lengths long, said resonant line being shorted at one end and opened at the other and being formed from a pair of serially connected line sections having dissimilar characteristic impedances, the line section adjacent the shorted end



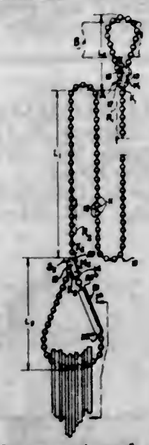
of the resonant line having a characteristic impedance higher than that of the other line section, one of said line sections being shorter than the other by an odd number of quarter wavelengths.

2,589,260

KEY CHAIN

Theodore M. Jablon, New York, N. Y.

Application April 26, 1947, Serial No. 744,092
10 Claims. (Cl. 70—457)



5. A holder for apertured articles comprising a chain, a longitudinal jacket surrounding a portion of the chain whereby a terminal portion of the chain may remain exposed, said jacket having its inner end substantially fixed at an intermediate point of the chain, the surrounded portion being collapsible into the jacket whereby said exposed chain portion is retractable into the jacket when the jacket is used as a threading member, removable stop means at the end of said exposed chain portion, and stop means at the other end of the chain.

2,589,261

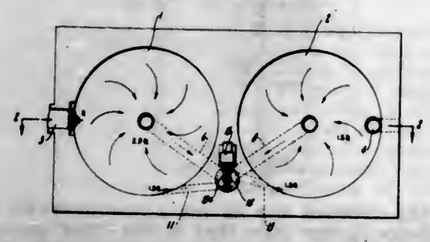
MIXING SYSTEM

Harry N. Jenks, Palo Alto, Calif.

Application December 9, 1946, Serial No. 715,109
3 Claims. (Cl. 259—97)

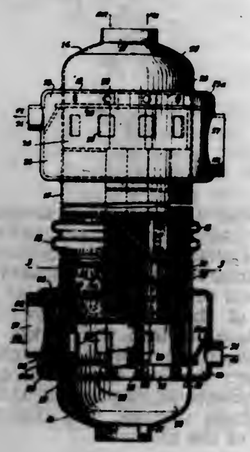
1. The method of operating a mixing system wherein primary and secondary mixing tanks

having straight bottoms and cylindrical walls are connected at their central bottom zones with a common riser, said riser being provided at its upper end with primary and secondary laterals communicating with said tanks through tangential outlets at a common level, and wherein said secondary tank is provided on its bottom with an effluent discharge outlet leading from a low interior region proximate the marginal walls of the tanks; comprising: delivering influent to and into the upper interior portion of said primary tank and discharging effluent



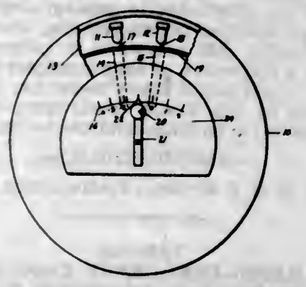
from said discharge outlet at a rate Q; pumping influent from the bottom of said primary tank through said riser at a rate substantially equal to 2.5Q; simultaneously pumping influent from the bottom of said secondary tank through said riser at a rate substantially equal to but not less than .5Q; and causing substantially equal quantities of the influent passing through said riser to pass through said laterals and tangential outlets into said primary and secondary tanks respectively at rates substantially equal to 1.5Q.

2,589,262
HEAT EXCHANGER
Percival C. Keith, Peapack, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application June 12, 1946, Serial No. 676,142
9 Claims. (Cl. 257—228)



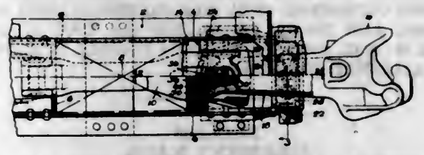
2. A heat exchanger comprising a cylindrical shell, at least two spaced header plates at each of the opposite ends of the shell defining a first, second and third header at each end of the shell, said first headers being continguous to the ends of the shell, the said second headers being disposed between the two spaced header plates at each end of the shell contiguous to said first headers, and the said third headers being disposed contiguous to the said second headers, means for supplying oxygen rectification product to one of said headers, means for supplying nitrogen rectification product to another of said headers, means for supplying air to the other of said headers, and a plurality of individual units disposed in said shell in spaced relation to each other, each unit comprising a pair of concentric tubes in spaced relation, the inner tube of each pair communicably connecting the said first headers at opposite ends of said shell, the annular space between the two concentric tubes of each unit communicably connecting the said second headers at opposite ends of said shell, each inner tube of each unit having therein an accordion fin formed by folding sections of thin metal of high heat conductivity to produce a multiplicity of short closely spaced, longitudinally extending passages completely filling the cross sectional area of said inner tube, a plurality of such sections being employed for each unit length of the tube and contiguous sections being separated by a narrow space, the annular space between two concentric tubes of each unit having therein an accordion fin folded to form two sets of triangular shaped passages with the bases of one set in contact with the inner wall of the outer tube and the bases of the other set in contact with the outer wall of the inner tube, the outer tube of each unit having thereon a third accordion fin folded to form two sets of triangular closely spaced channels with the bases of one set in contact with the outer wall of the tube and the bases of the other set disposed to produce a polygonal outline surrounding said tube, said closely spaced channels communicably connecting said third headers at the opposite ends of said shell, whereby each unit has flowing therethrough in indirect heat exchange relation separate streams of air, nitrogen and oxygen rectification products and is therefore self-sufficient from the viewpoint of heat transfer between the air, oxygen and nitrogen.

2,589,263
METER
Harry Kenosian, Chelsea, Mass.
Application October 9, 1946, Serial No. 702,107
4 Claims. (Cl. 116—129)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a meter having a dial, a pivoted pointer adapted to sweep said dial to indicate measurements, a plurality of means for producing beams of light each beam being of a different color, means for concentrating said beams in a predetermined paths only adjacent said dial, and a mirror for said pointer for interrupting and reflecting said beams as said pointer passes through said beams while sweeping said dial.

2,589,264
DRAFT CONNECTION
Edmund P. Kinne, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application March 18, 1946, Serial No. 655,145
11 Claims. (Cl. 213—72)



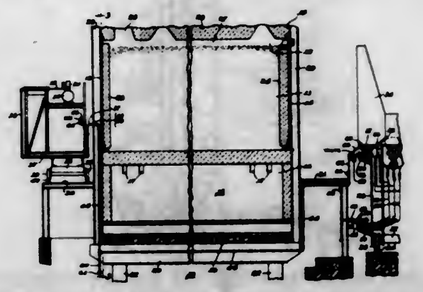
1. In a coupler mounting, a car body comprising spaced front and rear abutment means, a draft gear assembly intermediate said spaced means and comprising a draft gear engaging the rear abutment means and a follower compressed between said gear and said front abutment means, a yoke housing said assembly, a coupler comprising a coupler shank, means pivotally interconnecting said yoke to said shank, said last-mentioned means comprising means accommodating vertical and horizontal angling of said shank relative to said yoke, said shank being in complementary spherical face engagement at its rear extremity with the forward face of said follower along segmental spherical areas formed on a radius from a center on the longitudinal axis of the shank, and buffing means at each side of the longitudinal axis of said shank spaced from the said follower when the shank is in level, horizontally centered position, and engageable with said follower under buffing conditions during extreme horizontal angling of said shank relative to said yoke, whereby said follower is compressed against said gear, each of said buffing means comprising a surface fixed with respect to the shank, approximately linear in horizontal cross section, and formed in vertical cross section as a segment of a cylinder on a radius from a center intersected by the horizontal center plane of the shank, whereby vertical angling of the shank in any horizontal position thereof is accommodated without compressing said assembly by such vertical angling.

2,589,265
SPUD VALVE
Jesse D. Langdon, Long Beach, Calif.
Application March 4, 1947, Serial No. 732,253
9 Claims. (Cl. 4—56)



1. A spud valve comprising a central air chamber encompassed by material impervious to moisture forming the wall thereof, a portion of said wall adapted to seat against an outlet opening and drain of a reservoir, a secondary air chamber surrounding the outer wall of the first-named chamber, the second chamber being encompassed by a second wall of suitable material, the second air chamber having an open end at the bottom thereof and circumscribing the outer wall of the first-named chamber, the open end of the second chamber being subjected to the action of turbulent liquid when the valve is lifted from the seat, whereby air in the second chamber is partially evacuated therefrom by the turbulence of flowing liquid during the evacuation of liquid from said reservoir which said spud valve is adapted to seal, the second chamber serving to momentarily hold the valve away from its seat just previous to the final seating of the valve whereby a residuary flow of liquid from the reservoir is permitted.

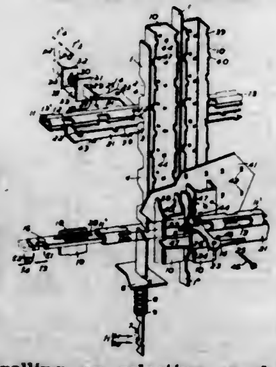
2,589,266
AUTOMATIC INTERLOCK FOR PUSHER MACHINES AND COKE GUIDE MACHINES
Paul Howard Lavely, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
Application January 14, 1947, Serial No. 721,910
In Great Britain January 16, 1946
7 Claims. (Cl. 214—23)



1. The combination with: a pusher machine for a horizontal coke oven battery; a ram mounted on said machine; and a control means on said pusher machine comprising an electrical circuit control switch normally rendering said pusher ram inoperative in the forward direction; and pneumatic fluid pressure operated means individualized to the respective ovens of said battery and adapted to operate said switch to enable the pusher ram to make its forward stroke only when its pusher machine and a coke guide machine are aligned at opposite sides of a said battery with one and the same oven; and means on a said coke guide machine to prevent operation of a motor for driving said coke guide machine, said means being automatically operable by the movement of an operator of the coke guide machine in individually controlling the flow of pneumatic pressure in a line individual to an oven when aligned with the coke guide; of an arcuate sliding contact rail on the pusher machine, said rail being normally urged towards said pneumatically operable actuating means for the fluid pressure lines and operable by individual sliding engagement with said pneumatically operable actuating means of the individual fluid pressure lines, when the latter are energized, to operate the switch for advancing the pusher ram; said contact rail diverging gradually away from the said actuating means in the direction of movement of the pusher machine for pushing, for a distance of at least three oven chambers and their intermediate heating walls; manually operable means for optional manual interconnection of the pusher ram advancing circuit individually with the individual fluid pressure lines, said means comprising a switch for cutting into the pusher ram advancing circuit so as to by-pass aforesaid automatically operated switch therefor; and manual connection means accessible to the operator's station on the pusher machine for manual connection with the individual fluid pressure lines, for the optional operation of the manually operable means; and means on the pusher machine, operable by the operator, for automatically preventing operation of a motor for propelling the pusher machine alongside the bat-

tery while the pusher ram circuit is completed by the aforesaid fluid pressure line interlock, and for automatically permitting such propelling movement while the pusher ram circuit is broken by the aforesaid fluid pressure line interlock.

2,589,267
SELECTOR MECHANISM
Georges Xavier Lens, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 24, 1950, Serial No. 151,593
In France April 1, 1949
6 Claims. (Cl. 74—483)



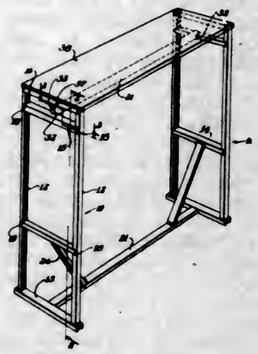
1. Controlling or selecting mechanism such as used for single or multi-switches in telecommunication or similar installations comprising, a plurality of sets of two mutually perpendicular bars each movable in a longitudinal direction, a clutch member which is under the control of the first of said bars in the rest position and which is placed under the control of the second of said bars when said first bar moves into a working position, a controlling device placed under the control of said clutch member when said first bar moves into a working position whereby displacements of said second bar in one sense or the other will cause said controlling device to be actuated by said clutch member and to be displaced to one out of two positions according to the sense of displacement of said second bar, thereby acting directly or indirectly upon the device to be controlled, means being provided to return said control device to the rest position when said second bar returns to the rest position.

2,589,268
REMOTE CONTROLLED TOY SHIP
Floyd R. Less, North Tonawanda, N. Y.
Application August 14, 1950, Serial No. 179,343
18 Claims. (Cl. 46—93)



1. In an amusement device including a body of water and a miniature ship floating thereon and having a propeller, the combination therewith of means for controlling the propulsion of said ship, comprising an electrical responsive device arranged to rotate said propeller upon actuation of said device, conductor means submerged in said body of water, conductive pick-up means movably arranged on said conductor means, conductive means connecting said pick-up means with said device, and means controlling the feed of current to said conductor means thereby to control the actuation of said device.

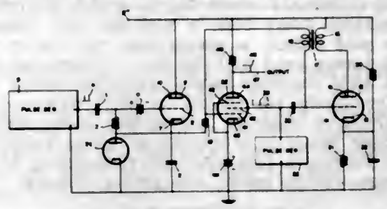
2,589,269
GARMENT RACK
Raymond A. Magnuson and Nels M. Christiansen, Chicago, Ill., assignors to R. A. Magnuson and A. Magnuson, copartners doing business under the firm name of Vogel-Peterson Co., Chicago, Ill.
Application September 21, 1945, Serial No. 617,716
3 Claims. (Cl. 211—177)



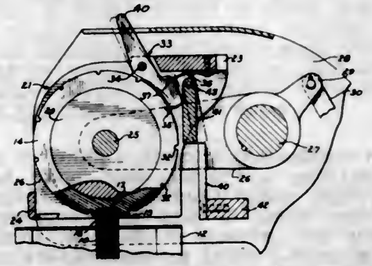
1. A knock-down garment rack comprising, in combination, a pair of end frames each including vertical support elements and a plurality of horizontal cross bars connecting the support elements, brace members hinged to an intermediate one of said cross bars of each end frame, a bottom rail having connections thereon for joining to a lower cross bar of each end frame in a manner to permit swinging movement of said end frames relative thereto and said rail having seats thereon intermediate its ends to receive the ends of said brace members, and an upper connecting member having connections thereon adjacent its ends, engaging upper cross bars of the end frames for holding said frames drawn together against the action of said brace members with the latter in compression and having their ends received in said bottom rail seats.

2,589,270
ELECTRONIC TIMING CIRCUIT
Louis F. Mayle, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application May 31, 1946, Serial No. 673,359
13 Claims. (Cl. 250—27)

1. An electronic timing circuit comprising a first source of counting pulses, a first potential storage element coupled to said first source, a second potential storage element, galvanically connecting said first element to said second element, a space discharge tube including a control grid and a cathode individually coupled to said elements for lowering the potential of said second element in response to the counting pulses by substantially equal increments, a second source of triggering pulses, means coupled to said second source for charging said second element to a predetermined potential, said charging means being rendered operative when a predetermined number of counting pulses is stored and being triggered by a triggering pulse arriving after said charging means has been rendered operative, and a utilization device responsive to the triggering of said charging means.



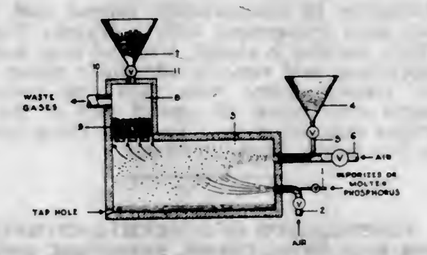
2,589,271
LATCH MECHANISM FOR PERFORATOR MATRIX ELEMENTS
Nicholas S. Miller, Chicago, Ill., assignor, by mesne assignments, to Cummins-Chicago Corp., a corporation of Illinois
Application November 9, 1946, Serial No. 709,043
11 Claims. (Cl. 164—114)



1. In a perforating machine having a plurality of groups of punches, the combination of actuating means for the punches including a matrix element for each group, said elements being adjustable to effect the actuation of the punches of their associated groups in different combinations for perforating selected indicia, means supporting said matrix elements for movement into or out of engagement with the punches, said supporting means being normally held in a retracted position, a disengageable latch for each matrix element operative to hold the element in adjusted positions, and movable stop means operable in response to the disengagement of any latch from its associated matrix element to prevent movement of said supporting means from the retracted position.

2,589,272
PRODUCTION OF CALCIUM METAPHOSPHATE
Philip Miller, New York, N. Y., assignor to Tennessee Valley Authority, a corporation of the United States
Application March 16, 1949, Serial No. 81,808
6 Claims. (Cl. 23—108)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for the production of calcium metaphosphate which comprises continuously introducing a stream of fluid phosphorus into a combustion zone in intimate contact with a continuous stream of air; concomitantly introducing a continuous stream of finely divided phosphate rock into the combustion zone; intimately contacting the finely divided phosphate rock, in suspension in the combustion zone, with gaseous products of combustion resulting from burning the stream of phosphorus; withdrawing a gaseous effluent from the combustion zone; passing the withdrawn gaseous effluent through a bed of phosphate rock in lumps of substantial size in a secondary reaction zone; controlling the rate of introduction of the stream of molten phosphorus to maintain a temperature in the combustion zone and in the secondary reaction zone substantially above the melting point of calcium metaphosphate; passing the resulting molten calcium metaphosphate from the secondary reaction zone into the combustion zone; concomitantly controlling the rate of introduction of finely divided phosphate rock to maintain the rate of introduction thereof in the range from 70 per cent to 90 per cent of that theoretically required to react with all phosphorus pentoxide formed by combustion of the stream of molten phosphorus to form calcium metaphosphate; controlling the rate of introduction of finely divided phosphate rock within said range to maintain the phosphorus pentoxide-calcium oxide ratio in the resulting calcium metaphosphate product in the combustion zone in the range from 0.95:1 to 1:1; and withdrawing molten calcium metaphosphate from the combustion zone.



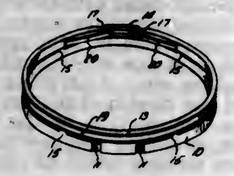
2,589,273
PROCESS FOR DEOXYGENATING AND ISOMERIZING A FISCHER-TROPSCH STOCK
Charles W. Montgomery and William I. Gilbert, Oakmont, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application September 17, 1948, Serial No. 49,845
11 Claims. (Cl. 260—450)

1. A process for deoxygenating while simultaneously isomerizing a synthetic motor fuel containing olefins and oxygenated compounds obtained by the reaction of carbon monoxide and a hydrogen-containing gas which comprises passing said motor fuel at a temperature of from 300° to 600° C. over a catalyst comprising alumina impregnated with anhydrous hydrogen chloride.

2,589,274
PISTON RING
Mathew M. Moratta, Princeton, Ind.
Application September 17, 1947, Serial No. 774,642
6 Claims. (Cl. 309—44)

5. An automatic variable adjustable piston ring of the class described comprising a substantially circular body having spaced split ends, a

resilient expansion band encircling the exterior of said body, said band having inturned straight terminals extending around the spaced ends of the body and inwardly along the inner face of the body, the terminals being spaced from the inner face of the body for a portion of their lengths to provide yieldable piston engaging

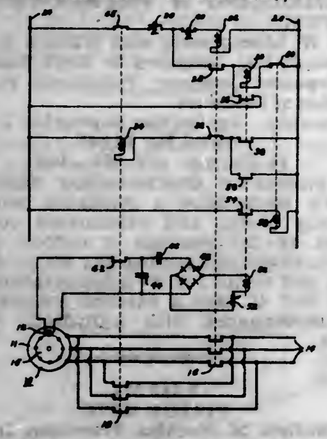


abutments to automatically expand said body into snug engagement with a cylinder bore in which the ring is placed, a second ring member supporting said variable adjustable piston ring and having spaced ends, each ring having a flange overlapping the spaced ends of the adjoining ring, the ends of the rings being tapered on the flange contacting faces.

2,589,275
PREPARATION OF 3-METHYL-CITRALS
Yves-René Naves, Geneva, Switzerland, assignor to The Givaudan Corporation, a corporation of New Jersey
No Drawing. Application February 4, 1948, Serial No. 6,358
2 Claims. (Cl. 260—603)

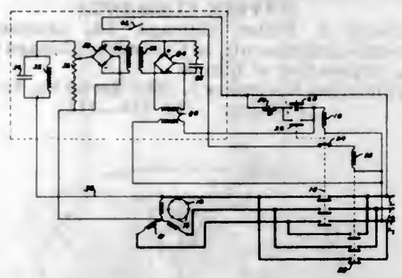
1. A process for making 3-methyl-citrals, which comprises adding a mixture of sodium bichromate, sulfuric acid and water to an aqueous emulsion of 3-methyl-linalools while maintaining agitation and under a temperature within the range from about 60° C. to 95° C., and removing the 3-methyl-citrals from the reaction mixture.

2,589,276
MOTOR CONTROL SYSTEM
Samuel Noodleman, Dayton, Ohio, assignor to Louis R. Mahrt and D. Robert Laughter, as trustees for Standard Dayton Corporation, Dayton, Ohio, a corporation of Ohio
Application May 5, 1948, Serial No. 25,181
18 Claims. (Cl. 318—210)



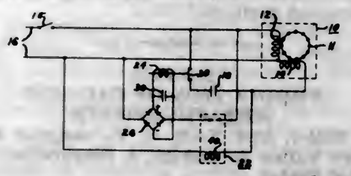
1. In combination, a polyphase motor provided with a plurality of phase windings, a source of electrical energy, means for connecting said phase windings to said source including switch mechanism for reversing the polarity of at least two of said phase windings so as to reverse the motor torque for braking purposes, voltage responsive relay means for controlling the operation of said switch mechanism, said relay means including a control relay coil, a rectifier having its direct current terminals connected to supply current to said control relay coil, a pick-up coil disposed within said motor, a resonating condenser connected across said pick-up coil, a blocking condenser, said rectifier having its alternating current terminals connected to said pick-up coil through said blocking condenser, said blocking condenser being constructed so as to block out signals having a frequency corresponding to the frequency of the motor energizing voltage.

2,589,277
MOTOR CONTROL SYSTEM
Samuel Noodleman, Dayton, Ohio, assignor to Louis R. Mahrt and D. Robert Laughter, as trustees for Standard Dayton Corporation, Dayton, Ohio, a corporation of Ohio
Application November 5, 1948, Serial No. 58,445
13 Claims. (Cl. 318—210)



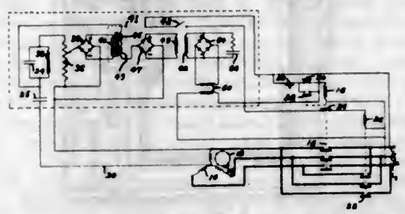
1. In combination, a motor, a source of power for energizing said motor, said motor having a polyphase stator winding, means connected across one phase of said stator winding for detecting the presence of the high frequency ripple generated within the motor as a result of the relative rotation between the stator and rotor of the motor, means for controlling the flow of current from said power source to said motor, and means operated in response to a predetermined change in the ripple frequency for operating said control means.

2,589,278
MOTOR CONTROL SYSTEM
Samuel Noodleman, Dayton, Ohio, assignor to Louis R. Mahrt and D. Robert Laughter, as trustees for the Standard Dayton Corporation, Dayton, Ohio, a corporation of Ohio
Application March 5, 1949, Serial No. 79,846
12 Claims. (Cl. 318—221)



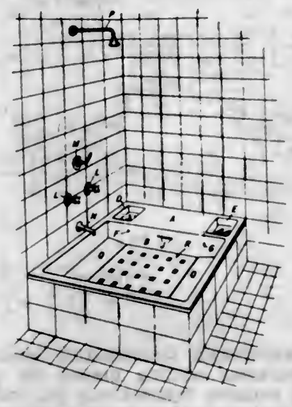
1. In combination, a motor rotor, a main winding, a starting winding, means for connecting the main winding to a source of alternating current power having a frequency within a given frequency range, and means for connecting said starting winding to a source of power, said last named means including a resonant type of relay responsive only to voltages having a frequency above said given frequency range and operated in response to the ripple voltage generated within the motor for disconnecting said starting winding as the motor comes up to speed.

2,589,279
SPEED RESPONSIVE PLUGGING FOR ELECTRIC MOTORS
Samuel Noodleman, Dayton, Ohio, assignor to Louis R. Mahrt and D. Robert Laughter, as trustees for the Standard Dayton Corporation, Dayton, Ohio, a corporation of Ohio
Application June 16, 1949, Serial No. 99,466
8 Claims. (Cl. 318—210)



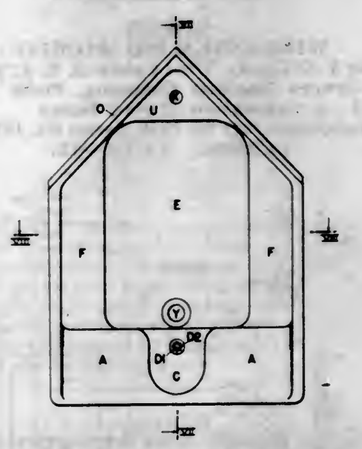
1. In combination with a motor having stator windings and a rotor; a relay system connected across at least a portion of said stator windings to be energized from current generated in said windings; said relay system including means responsive to signals within a given frequency range generated in said stator windings as a result of relative rotation between said rotor and said stator, means for amplifying said signals, and blocking means for blocking other signals within a different frequency range.

2,589,280
RECTANGULAR BATH FIXTURE
Manuel Munar Ocaña, Madrid, Spain, assignor to Sociedad Anónima de Aplicaciones Sanitarias, Madrid, Spain, a Spanish company
Application June 10, 1948, Serial No. 32,109
In Spain June 28, 1947
4 Claims. (Cl. 4—173)



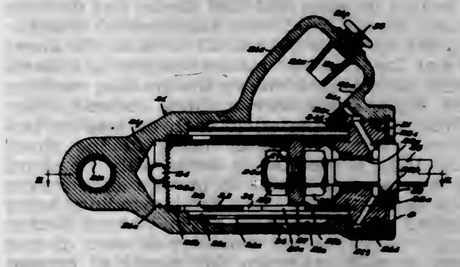
1. A rectangular fixture for a shower or foot-bath and bidet in which there is a main bath cavity for a shower-bath, of uniform height in all its walls, one entire upper edge of the cavity being widened into a platform forming a seat flush with the upper edges of the other walls, said seat being adapted to be used when washing the feet or soaping one's self.

2,589,281
COMBINED SHOWER BATH, FOOT BATH, AND BIDET APPARATUS
Manuel Munar Ocaña, Madrid, Spain, assignor to Sociedad Anónima de Aplicaciones Sanitarias, Madrid, Spain, a Spanish company
Application August 9, 1949, Serial No. 109,233
In Spain June 28, 1947
3 Claims. (Cl. 4—7)



1. A combined shower-bath, foot-bath and bidet comprising a shower and foot bath receptacle, one upper edge of the receptacle being widened into a platform forming a seat, and a concavity in the center of the seat forming a half bidet associated with the receptacle and adapting the seat to perineal washing.

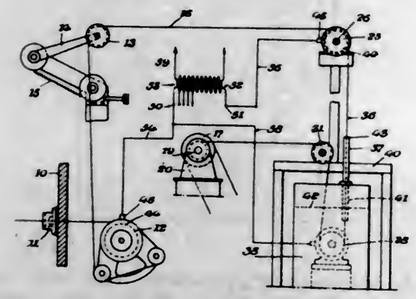
2,589,282
RECTILINEAR FLUID SHOCK ABSORBER
Bernard E. O'Connor, Buffalo, and Richard E. Henrich, Kenmore, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application August 25, 1948, Serial No. 46,064
9 Claims. (Cl. 188—97)



1. An hydraulic check comprising a hollow casing defining a primary chamber adapted to be filled with fluid, a first sleeve mounted in said chamber, a piston reciprocable in said first sleeve, said first sleeve having throttling apertures therein to bypass fluid around said piston at a limited rate to exert a predetermined checking action on the movements of said piston, a second sleeve surrounding said first sleeve and spaced therefrom, means on said casing defining a reservoir chamber communicating with the exterior of said second sleeve, at least a portion of said reservoir chamber being disposed at a higher gravitational level than said primary chamber, a fluid charge filling both said sleeves

and part of said reservoir chamber, the uppermost part of said reservoir chamber defining a trapped air space, and said second sleeve being apertured at a region remote from said trapped air space to accommodate flow of excess fluid from said primary chamber into said reservoir chamber, whereby surging of said excess fluid flow is substantially eliminated.

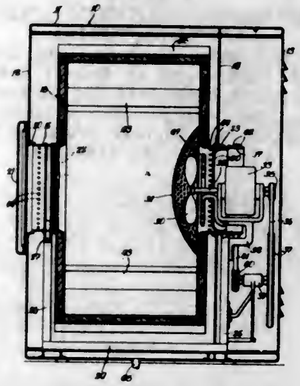
2,589,283
WIRE ANNEALING MACHINE
Joseph V. O'Grady, West Caldwell, N. J., assignor to Syncro Machine Company, Perth Amboy, N. J., a corporation of New Jersey
Application July 29, 1949, Serial No. 107,447
4 Claims. (Cl. 219—11)



3. In a driving mechanism for a continuous annealing device of the type described and in which the wire to be annealed is heated electrically after it passes over a final drawing capstan as it comes from a drawing machine subsequent to its final drawing operation in combination, a pair of contact sheaves over which said wire passes, contacting means associated with each of said sheaves and with the final drawing capstan of the wire drawing machine, said contact means supplying current to one of said sheaves and through said wire to said other sheave to the final wire drawing capstan, said wire being heated to annealing temperature between the second of said sheaves and the first of said sheaves being pre-heated between said first sheave and drawing capstan, means for driving said sheaves at angular speed corresponding at all times to the linear speed of the wire, said means comprising a direct current generator driven by the drawing machine which supplies the wire, a direct current motor mechanically connected to each of said contact sheaves, each said motor being of the shunt wound type, a rheostat in series with the shunt field of each said motor to provide adjustments of the speed thereof, said shunt windings being energized from a suitable direct current source, means connecting the armature of each of said motors to said generator for supply of current therefrom, and relay means operable upon starting of the wire drawing machine and annealing devices to connect said motors across said direct current source.

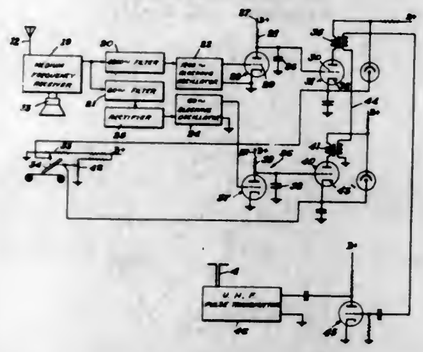
2,589,284
DRIER
Charles S. O'Neil, Two Rivers, Wis., assignor to Hamilton Manufacturing Company, Two Rivers, Wis., a corporation of Wisconsin
Application September 20, 1946, Serial No. 698,240
7 Claims. (Cl. 34—77)

1. A laundry dryer comprising a non-insulating casing, a rotatable drum mounted within said casing in spaced relation thereto, said drum having intake and outlet openings both communicating with the space between said casing and said drum, and said space providing communication from said outlet to said inlet outside of said drum but within said casing, a fan located in said drum for drawing air into said drum through said



intake from said space and for discharging air from said drum through said outlet to said space, and a heater mounted in said intake to heat the air drawn therethrough, the air discharged through said outlet being reduced in temperature in passing through said space to condense a portion of the moisture therein before recirculation through and reheating in said drum.

2,589,285
COMMUNICATION SYSTEM
Louis W. Parker, Jackson Heights, N. Y., assignor to Federal Telecommunication Laboratories, Inc., New York, N. Y., a corporation of Delaware
Application September 11, 1946, Serial No. 696,119
6 Claims. (Cl. 178—19)

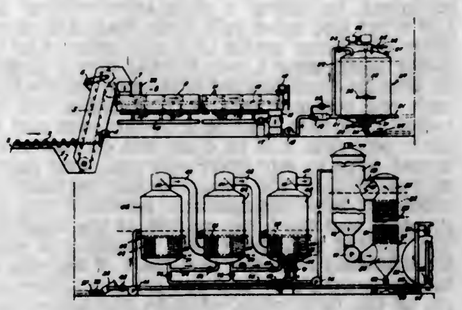


3. A telautograph transmitting system, comprising character tracing means for producing significant voltages respectively for independent horizontal and vertical movements thereof, means for producing horizontal and vertical time bases of given frequencies for said movements forming individual cyclic frames, means for producing a single pulse which is significant of both the horizontal and the vertical position of said tracing means, a pulse transmitter, and means for modulating the output of said transmitter by means of said single pulse.

2,589,286
PRODUCTION OF DIMENSIONALLY STABLE HARDENED COPOLYMER MONOHYDRIC PHENOL, DIHYDRIC PHENOL-ALDEHYDE RESINOUS MASS
Philip H. Rhodes, Kingston, N. Y., assignor, by mesne assignments, to Koppers Company, Inc., a corporation of Delaware
No Drawing. Application August 15, 1946, Serial No. 690,824
15 Claims. (Cl. 260—54)

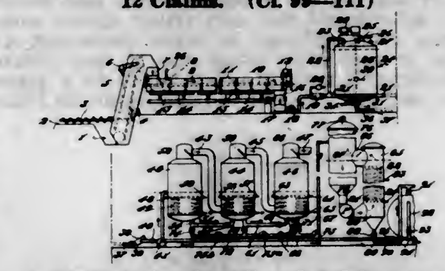
1. A continuous dimensionally stable set-up and hardened copolymerized monohydric phenol, dihydric phenol-aldehyde resinous mass the resin component thereof being transparent and consisting of the reaction product of a water-containing syrup containing a syrup base having present a permanently fusible two-stage reaction product of a phenolic body consisting of a monohydric phenol and a dihydric phenol, and an aldehyde which is condensable with and heat-reactive with said phenolic body to form a resinous condensation product therewith, said phenolic body containing at least 10% of a monohydric phenol and at least 20% of a dihydric phenol in which the hydroxy groups are on the same carbon ring, the percentages being on a molar basis, said syrup having a viscosity varying between 6 and 30 poises; a reaction-accelerating catalyst and a formaldehyde-liberating setting agent in an amount to set and harden the resin component of the syrup, said set-up and hardened resinous mass being compatible with water and retaining between 10 and 35% of water functioning to inhibit shrinkage during the setting up and hardening of the resulting resinous reaction product, said hardened resinous mass being resistant to cracking on aging.

2,589,287
METHOD OF TREATING FISH AND RESULTING PRODUCT
John Ryan, Brookline, and William C. Wilson, Beverly, Mass., assignors to Dehydrating Process Co., Boston, Mass., a corporation of Massachusetts
Application January 2, 1947, Serial No. 719,782
17 Claims. (Cl. 99—111)



1. Method of making liquefied fish, comprising the steps of subjecting all of the components of fish simultaneously to contact with an acid, and to an atmosphere of steam at elevated temperature and pressure, and continuing these conditions until the charge is reduced substantially completely to a particle size below approximately 50 microns.

2,589,288
METHOD OF TREATING FISH
John Ryan, Brookline, Mass., assignor to Dehydrating Process Co., Boston, Mass., a corporation of Massachusetts
Application August 10, 1948, Serial No. 43,422
12 Claims. (Cl. 99—111)



1. Method of making liquefied fish, comprising the steps of subjecting all of the components of fish simultaneously to contact with an atmosphere of steam at a pressure of at least 30 pounds per square inch gauge pressure and continuing these conditions until the charge is reduced substantially completely to a particle size below approximately 50 microns.

2,589,289
HIGH-PRESSURE REACTION OF CARBON MONOXIDE WITH HYDRAZINE
Herman J. Sampson, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 31, 1948, Serial No. 18,295
5 Claims. (Cl. 260—554)

1. A process for producing semicarbazide and hydrazodicarbonamide which comprises reacting carbon monoxide with hydrazine in the presence of a metal carbonyl catalyst at a temperature from 0° to 200° C. under superatmospheric pressure in excess of 5 atmospheres, and isolating from the reaction mixture one of said compounds semicarbazide and hydrazodicarbonamide.

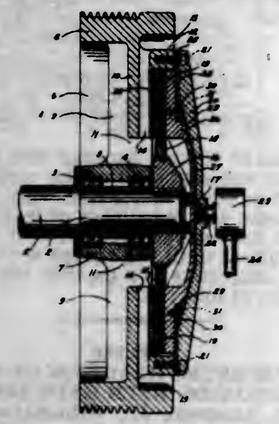
2,589,290
REACTION OF CARBON MONOXIDE AND HYDRAZINE AND PRODUCT THEREOF
Herman J. Sampson, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 11, 1950, Serial No. 138,967
6 Claims. (Cl. 260—1)

1. A process for producing water-soluble nitrogen compounds having the molecular formulas $C_2H_4N_4O$ and $C_4H_8N_8$ which comprises reacting carbon monoxide with hydrazine at a temperature of 100° to 300° C. under superatmospheric pressure in excess of 60 atmospheres and isolating from the reaction mixture one of said water-soluble nitrogen compounds having the molecular formulas $C_2H_4N_4O$ and $C_4H_8N_8$.

2,589,291
FLUID ACTUATED CLUTCH
Robert E. Sanford, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio
Application July 16, 1945, Serial No. 605,210
10 Claims. (Cl. 192—88)

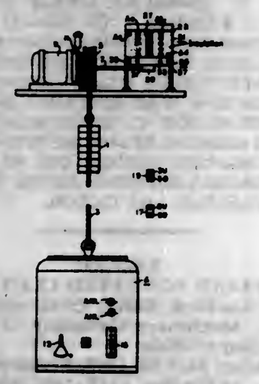
1. A fluid actuated clutch comprising driving and driven members, engageable friction ele-

ments including an abutment carried by one of said members and a clutch disc carried by the other of said members movable toward and away from said abutment, fluid pressure motor carried by said one member including a cover plate and a piston, said piston having an annular friction surface engageable with said clutch disc, a combined seal and return spring comprising a resilient annular metal diaphragm secured to said cover plate and to said piston, said diaphragm lying substantially in a plane when said clutch is released and resiliently hold-



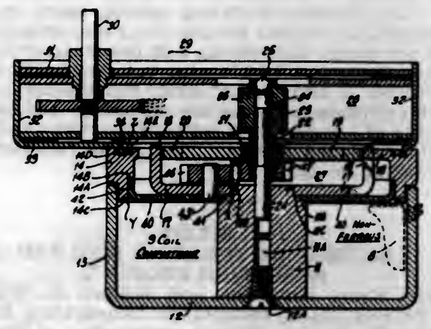
ing said annular friction surface away from said clutch plate, said piston extending across and closing the aperture in said annular diaphragm and means for admitting pressure fluid between said cover plate and said piston to move said piston axially and force said friction elements into clutching engagement, the relation between the radial dimension of said diaphragm and the extent of movement of said piston from released to engaged position being such that the stretching of said diaphragm during such movement is within the elastic limit of the metal thereof.

2,589,292
ELEVATOR
Danilo Santini, Tenafly, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 2, 1949, Serial No. 113,845
27 Claims. (Cl. 187—29)



27. In an elevator system having a plurality of elevator cars for serving a plurality of floors and a dispatching floor, a dispatcher device for each of the elevator cars designed for operation when the associated elevator car is to leave the dispatching floor, a dispatcher effective at timed intervals for operating one of said dispatcher devices in order to dispatch the associated elevator car from the dispatching floor, call registering mechanism for registering calls for elevator service for each of said plurality of floors, demand means responsive to the calls for elevator service by the call registering means for evaluating the demand for service, and means responsive to the demand means upon occurrence of a predetermined service demand and to the presence of a plurality of elevator cars at the dispatching floor for expediting the operation of one of said dispatcher devices to expedite the dispatch of a car from the dispatching floor.

2,589,293
SMALL ELECTRIC MOTOR
Eugene L. Schelliens, Essex, Conn., assignor to R. W. Cramer Company, Incorporated, Centerbrook, Conn., a corporation of Connecticut
Application December 14, 1949, Serial No. 132,812
9 Claims. (Cl. 172—36)

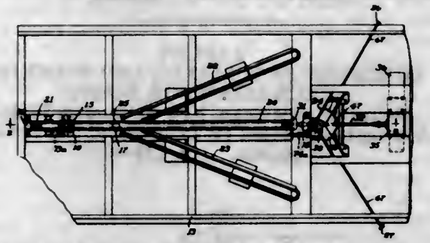


1. A small electric motor of the type described having at the front and rear respectively a poled rotor and a cooperating poled stator, said stator having successive iron portions providing its magnetic circuit and defining an annular coil compartment, including a shouldered central core, and outer and inner pole rings shaped to provide outer and inner series of stator poles; and said motor comprising a non-ferrous metal partition of annular form located adjacently frontward of such coil compartment, with its inner rim connected by a first joint to both said core and said inner pole ring, and its outer rim connected by a second joint to said outer pole ring; and characterized in that the partition has its inner rim extended into engagement between the core shoulder and the inner margin of the inner ring, and in that such first joint comprises a staked lip extending from the front part of the core and tightly swaged over and against such inner margin of the inner ring, whereby the inner ring is held by its inner margin in squeezing pressure against the inner rim of the partition with thrust against the core shoulder, thereby permanently interlocking and joining tightly the core, the inner ring and the interposed partition; and characterized further in that said second joint comprises a staked lip extending from the rear part of the outer pole ring and tightly swaged over and against the partition outer rim, with thrust against the outer pole ring shoulder.

2,589,294
VINYLIDENE CYANIDE POLYMERS AND POLYMER PRODUCTS
Richard F. Schmidt, Cuyahoga Falls, and Alan E. Ardis and Harry Gilbert, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 26, 1948, Serial No. 11,236
10 Claims. (Cl. 260—30.2)

1. A homopolymer of vinylidene cyanide having a molecular weight in excess of 25,000.

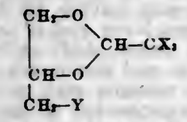
2,589,295
AUTOMATIC POWER TABLE FOR SIDE SERVICE HEARSES
Earl L. Schofield, Rockford, Ill., assignor to E. L. Schofield, Incorporated, Rockford, Ill., a corporation of Delaware
Application September 20, 1948, Serial No. 50,135
47 Claims. (Cl. 214—83.24)



1. In a side delivery hearse, the combination of a casket table movable relative to a base, guide means on said base cooperating with the table to guide it for forward and lateral movement from a retracted position in longitudinal alignment with the base to a position in transverse relation thereto projecting laterally from the hearse, a screw extending lengthwise of the hearse and base, a reversible electric motor, a centrifugal friction clutch drivingly connecting said motor with said screw to turn the same selectively in either direction, and a nut threaded on said screw and pivotally connected to the table to transmit longitudinal movement thereto and also permit the table's simultaneous lateral movement, said nut being of a type movable manually with the table in either direction relative to said screw independently of said motor, said clutch being adapted to slip automatically permitting manual operation of the table and automatic disconnection of said motor from said screw in the event of any abnormally high resistance to movement of said table.

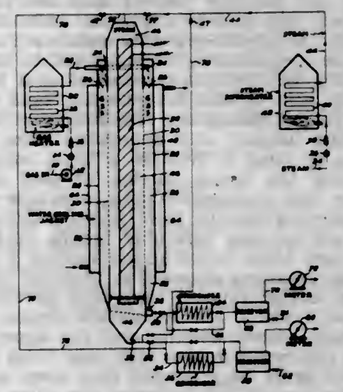
2,589,296
2-TRIHALOMETHYL-1,3-DIOXOLANE-4-CARBOXYBENZOATE AND CARBOXYALKANOATE
Elmer F. Schroeder, Chicago, Ill., assignor to G. D. Searle & Co., Chicago, Ill., a corporation of Illinois
No Drawing. Application June 2, 1950, Serial No. 165,678
8 Claims. (Cl. 260—338)

1. A 1,3-dioxolane ester of the structural formula



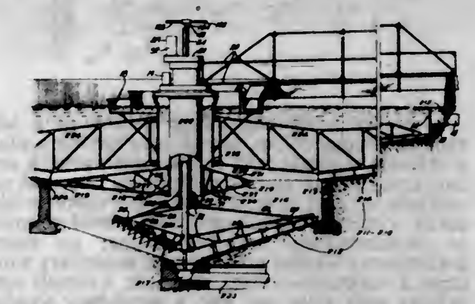
wherein X is a halogen of atomic number greater than 9 and Y is a member of the group consisting of carboxybenzoate and carboxyalkanoate groups.

2,589,297
PROCESS OF SEPARATING GASES BY DIFFUSION
Frederick Anton Schwertz, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application February 27, 1947, Serial No. 731,265
12 Claims. (Cl. 183—115)



1. A method of separating constituents of gas comprising: passing said gas along one side of a porous diffusion boundary in a diffusion zone, passing a condensible sweep vapor along the opposite side of the boundary, maintaining the constituents on the sweep vapor side of the boundary under conditions to prevent condensation thereof within the diffusion zone, maintaining temperature conditions in the diffusion zone to condense on the gas side only the sweep vapors which diffuse through the boundary to the gas side thereof, and separating condensible vapors from the gas streams leaving the diffusion zone.

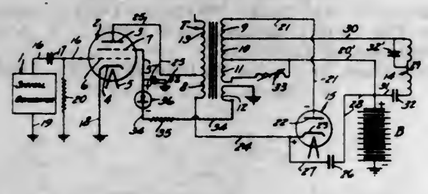
2,589,298
SEDIMENTATION UNIT
Charles Harold Scott, Westport, Conn., assignor to The Dorr Company, New York, N. Y., a corporation of Delaware
Application December 28, 1946, Serial No. 718,944
14 Claims. (Cl. 210—55)



1. Apparatus for clarifying liquids having solids in suspension therein comprising a settling basin for a main body of liquid to be clarified, equipped with a main bottom section

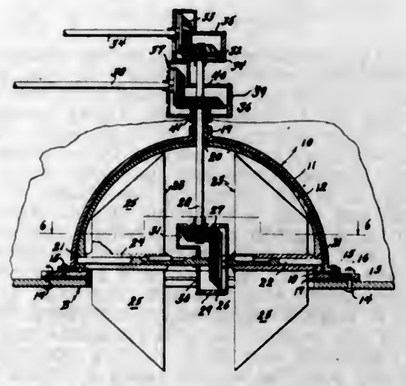
for receiving solids settling thereupon, a marginal wall rising therefrom, an influent supply means, a supernatant liquid effluent overflow means, a depressed section extending below the main section and providing a pit for receiving settlings impelled thereto; sediment-discharge means leading from said pit; rotatable main raking means operable over and along said main bottom for impelling settlings therefrom for delivery into said depressed section; a rotatable sediment-engaging means turnable about a vertically-extending axis and embodying a depending shaft turnably supported by a bearing at the upper end portion thereof and carrying from the lower end thereof outwardly-extending arms by which sediment-engaging means are carried so as to be functionably disposed within the region overlying the bottom portion of said depressed section; and means for rotating said rotatable main raking means and said rotatable sediment-engaging means; said apparatus being characterized in that it includes a truss construction spanning the upper portion of said depressed section and a rising column structure carrying a supporting bearing from which a portion of at least one of said rotatable means derives support, said truss construction having a plurality of truss members disposed so that the outer ends thereof derive support from that portion of the settling basin in the immediate region whereat the main bottom section and the upper portion of the depressed section join, said truss members in plan being so arranged that open sediment-transfer area is left between the outer end portions thereof whereby impelled and transferred settlings from the main bottom section can pass therethrough into the depressed section, said column structure having a rigid connection with the truss members of the truss construction, the outwardly-extending arms at the lower end of said shaft having operating extent under the truss members and within the sediment-receiving area below said truss members.

2,589,299
SAFETY CONTROL CIRCUIT FOR ELECTRONIC AMPLIFIERS
Barton T. Setchell, New Brighton, Minn.
Application May 23, 1950, Serial No. 163,704
4 Claims. (Cl. 315—27)



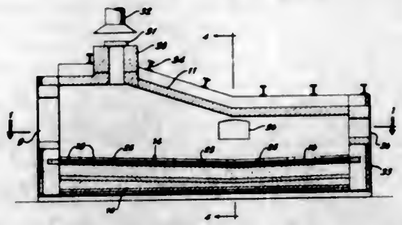
1. In the horizontal sweep section of a television instrument, an output tube having a plate, a cathode, a signal grid, and a screen grid; a control grid driving circuit comprising the grid and cathode of said tube and wherein there is normally a substantially continuous signal potential of predominately negative factor; an output transformer having primary and secondary windings; a horizontal sweep yoke coil; a circuit comprising said yoke coil and a secondary winding of the transformer; a plate circuit comprising a D. C. source, a primary winding of the transformer, the plate and cathode of the output tube, a rectifier serving as a damper, and said secondary winding of the output transformer; and a safety power control circuit for the output tube comprising a secondary winding of the output transformer and a rectifier having its positive D. C. output side coupled to the screen grid of the output tube as a power control for the output tube, energization of the safety power control circuit being dependent upon the presence of the said predominately negative signal potential in the control grid circuit, the said rectifier applying a sufficiently high positive potential to the screen grid to increase the power output rate of the output tube beyond the normal operating range thereof in the absence of the said predominately negative control signal potential, and the predominately negative control grid signal potential serving to reduce the power output rate of the output tube to within its normal operating range, whereby loss of the predominately negative control grid signal potential will result in a simultaneous loss of screen grid potential and prevent serious overloading of the output tube and elements in circuit therewith.

2,589,300
COMBINED PROPELLING AND STEERING MECHANISM FOR BOATS
Delmer F. Sherman, New Plymouth, Idaho
Application August 15, 1950, Serial No. 179,517
3 Claims. (Cl. 115—50)



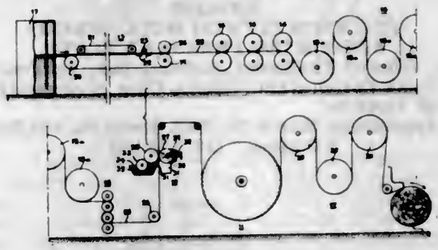
1. A combined propelling and steering mechanism for mounting over a circular opening in the bottom of a water craft comprising outer and inner casing members having open circular lower ends the outer member being stationary and having attaching means around its bottom, said outer member also having at the center of its top an upwardly projecting tubular bearing, means mounting said inner member for rotation in said outer member, said mounting means including an annular bearing around the bottom of said inner member and an upwardly projecting cylindrical sleeve fixed to the center of the top of said inner member and extending through and rotatable in said tubular bearing, a rotary shaft mounted diametrically across the lower portion of said inner member, a paddle wheel on said shaft and having its blades movable through the open lower end of said inner member, a vertical power shaft extending through and rotatable in said sleeve, gearing connecting said shafts for rotating said paddle wheel, and steering means connected to the upper end of said sleeve to rotate said inner member.

2,589,301
ELECTRIC MELTING FURNACE
Arthur Dean Smith, Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
Application June 7, 1949, Serial No. 97,578
13 Claims. (Cl. 13—20)



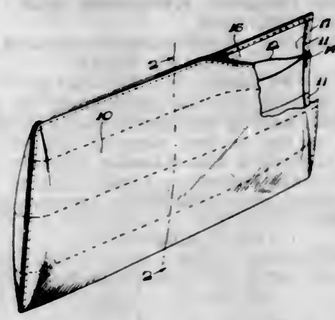
2. In an electric melting furnace for metals and their alloys having a bottom adapted to supply heat to the furnace and the contents thereof, a heat absorbing and conducting block positioned within the bottom of the furnace, said block having a continuous exterior supporting surface normally adapted to be submerged in molten metal and out of contact with the furnace atmosphere, means for heating said block, said means comprising an electric heating element embedded within and substantially in complete contact with said block, whence heat is then transmitted by conduction to the molten metal in said furnace, and means for introducing a gaseous fluxing agent into said furnace, said means consisting of a porous block located adjacent said block of heat-absorbing and conducting material.

2,589,302
METHOD OF APPLYING A DISCONTINUOUS COATING TO PAPER
Paul A. Snowman, Jr., Glen Ridge, N. J., assignor to North American Paper Process Company, Inc., New York, N. Y., a corporation of Delaware
Application August 5, 1948, Serial No. 42,656
3 Claims. (Cl. 117—38)



1. The method for applying a lightweight discontinuous coating of uniform pattern to a traveling web of paper which includes: applying to said web by direct print fine relatively closely spaced but segregated and uniform quantities of an aqueous mineral pigment coating mix including a binder, water and inorganic filler, said coating mix binder being selected from the group consisting of starch and casein, said mix containing inorganic filler in an amount between about forty-five and seven-tenths and forty-seven and six-tenths per cent by weight and binder in an amount between about seven and one-tenth and nine and two-tenths per cent by weight, and thereafter while still moist urging the closely spaced but segregated quantities of coating mix against the web by means of a highly polished rotating glaze member traveling at the same speed as the web, with a preselected pressure adequate only to insure uniform even contact, the closely spaced quantities of mix maintaining separateness but being partially flattened against the web, said glaze member being heated to a preselected temperature whereby the heat of the glaze member when contacting such quantities causes portions of the binder to migrate to the surface of such closely spaced quantities of mix and onto the uncoated areas of the web and thereafter are glazed by said glaze member to form a substantially continuous skin over the web, the discontinuous coating including the residue of said mix after migration of such portions of the binder, the web having coated and uncoated areas of such fine dimension that they are not readily distinguishable at distances for normal vision between about twelve to sixteen inches.

2,589,303
COMPARTMENTED PILLOW
Randall M. Sourbeck, Akron, Ohio, assignor to Interstate Latex Company, Youngstown, Ohio, a corporation of Ohio
Application August 5, 1946, Serial No. 688,492
3 Claims. (Cl. 5—341)



2. A pillow or the like, including a flexible sheet folded in half to form a casing having top and bottom sides, a plurality of divider strips spaced apart and sewed to the inner faces of said sides, each of said strips being turned over to form a flanged edge along each end, each of said flanged edges being folded over to form a double thickness and hemmed between the edges of the folded casing sheet at each end of the pillow to thereby close the ends of the casing and define a plurality of closed compartments in the casing between said strips, said compartments being stuffed with resilient material, such as shredded rubber.

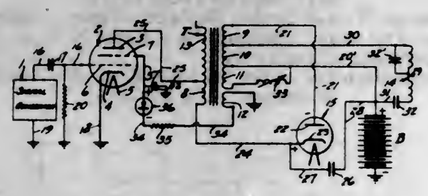
2,589,304
INTERLOCKING STRUCTURAL UNITS
William B. Spangler, Jefferson, Iowa
Application July 29, 1947, Serial No. 764,544
9 Claims. (Cl. 189—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A structural assembly comprising a plurality of interlocked, universally interchangeable, iden-

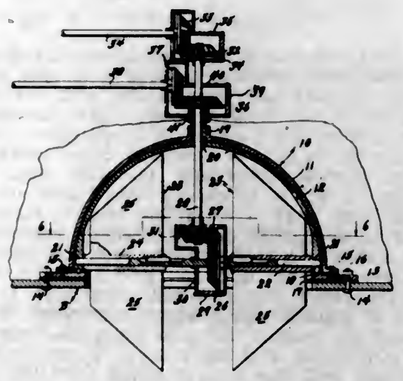
for receiving solids settling thereupon, a marginal wall rising therefrom, an influent supply means, a supernatant liquid effluent overflow means, a depressed section extending below the main section and providing a pit for receiving settlings impelled thereto; sediment-discharge means leading from said pit; rotatable main raking means operable over and along said main bottom for impelling settlings therefrom for delivery into said depressed section; a rotatable sediment-engaging means turnable about a vertically-extending axis and embodying a depending shaft turnably supported by a bearing at the upper end portion thereof and carrying from the lower end thereof outwardly-extending arms by which sediment-engaging means are carried so as to be functionably disposed within the region overlying the bottom portion of said depressed section; and means for rotating said rotatable main raking means and said rotatable sediment-engaging means; said apparatus being characterized in that it includes a truss construction spanning the upper portion of said depressed section and a rising column structure carrying a supporting bearing from which a portion of at least one of said rotatable means derives support, said truss construction having a plurality of truss members disposed so that the outer ends thereof derive support from that portion of the settling basin in the immediate region whereat the main bottom section and the upper portion of the depressed section join, said truss members in plan being so arranged that open sediment-transfer area is left between the outer end portions thereof whereby impelled and transferred settlings from the main bottom section can pass therethrough into the depressed section, said column structure having a rigid connection with the truss members of the truss construction, the outwardly-extending arms at the lower end of said shaft having operating extent under the truss members and within the sediment-receiving area below said truss members.

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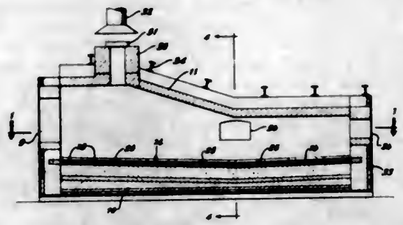
1. In the horizontal sweep section of a television instrument, an output tube having a plate, a cathode, a signal grid, and a screen grid; a control grid driving circuit comprising the grid and cathode of said tube and wherein there is normally a substantially continuous signal potential of predominately negative factor; an output transformer having primary and secondary windings; a horizontal sweep yoke coil; a circuit comprising said yoke coil and a secondary winding of the transformer; a plate circuit comprising a D. C. source, a primary winding of the transformer, the plate and cathode of the output tube, a rectifier serving as a damper, and said secondary winding of the output transformer; and a safety power control circuit for the output tube comprising a secondary winding of the output transformer and a rectifier having its positive D. C. output side coupled to the screen grid of the output tube as a power control for the output tube, energization of the safety power control circuit being dependent upon the presence of the said predominately negative signal potential in the control grid circuit, the said rectifier applying a sufficiently high positive potential to the screen grid to increase the power output rate of the output tube beyond the normal operating range thereof in the absence of the said predominately negative control signal potential, and the predominately negative control grid signal potential serving to reduce the power output rate of the output tube to within its normal operating range, whereby loss of the predominately negative control grid signal potential will result in a simultaneous loss of screen grid potential and prevent serious overloading of the output tube and elements in circuit therewith.

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Delmer F. Sherman, New Plymouth, Idaho
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3 Claims. (Cl. 115—50)



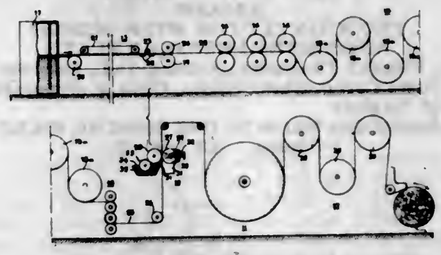
1. A combined propelling and steering mechanism for mounting over a circular opening in the bottom of a water craft comprising outer and inner casing members having open circular lower ends the outer member being stationary and having attaching means around its bottom, said outer member also having at the center of its top an upwardly projecting tubular bearing, means mounting said inner member for rotation in said outer member, said mounting means including an annular bearing around the bottom of said inner member and an upwardly projecting cylindrical sleeve fixed to the center of the top of said inner member and extending through and rotatable in said tubular bearing, a rotary shaft mounted diametrically across the lower portion of said inner member, a paddle wheel on said shaft and having its blades movable through the open lower end of said inner member, a vertical power shaft extending through and rotatable in said sleeve, gearing connecting said shafts for rotating said paddle wheel, and steering means connected to the upper end of said sleeve to rotate said inner member.

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Arthur Dean Smith, Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware
Application June 7, 1949, Serial No. 97,578
13 Claims. (Cl. 13—20)



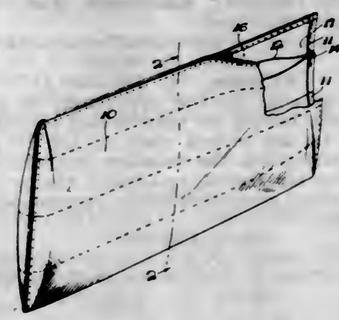
2. In an electric melting furnace for metals and their alloys having a bottom adapted to supply heat to the furnace and the contents thereof, a heat absorbing and conducting block positioned within the bottom of the furnace, said block having a continuous exterior supporting surface normally adapted to be submerged in molten metal and out of contact with the furnace atmosphere, means for heating said block, said means comprising an electric heating element embedded within and substantially in complete contact with said block, whence heat is then transmitted by conduction to the molten metal in said furnace, and means for introducing a gaseous fluxing agent into said furnace, said means consisting of a porous block located adjacent said block of heat-absorbing and conducting material.

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Paul A. Snowman, Jr., Glen Ridge, N. J., assignor to North American Paper Process Company, Inc., New York, N. Y., a corporation of Delaware
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3 Claims. (Cl. 117—38)



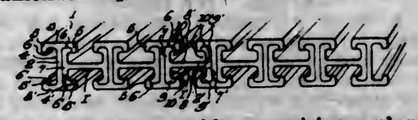
1. The method for applying a lightweight discontinuous coating of uniform pattern to a traveling web of paper which includes: applying to said web by direct print fine relatively closely spaced but segregated and uniform quantities of an aqueous mineral pigment coating mix including a binder, water and inorganic filler, said coating mix binder being selected from the group consisting of starch and casein, said mix containing inorganic filler in an amount between about forty-five and seven-tenths and forty-seven and six-tenths per cent by weight and binder in an amount between about seven and one-tenth and nine and two-tenths per cent by weight, and thereafter while still moist urging the closely spaced but segregated quantities of coating mix against the web by means of a highly polished rotating glaze member traveling at the same speed as the web, with a preselected pressure adequate only to insure uniform even contact, the closely spaced quantities of mix maintaining separateness but being partially flattened against the web, said glaze member being heated to a preselected temperature whereby the heat of the glaze member when contacting such quantities causes portions of the binder to migrate to the surface of such closely spaced quantities of mix and onto the uncoated areas of the web and thereafter are glazed by said glaze member to form a substantially continuous skin over the web, the discontinuous coating including the residue of said mix after migration of such portions of the binder, the web having coated and uncoated areas of such fine dimension that they are not readily distinguishable at distances for normal vision between about twelve to sixteen inches.

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COMPARTMENTED PILLOW
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3 Claims. (Cl. 5—341)



2. A pillow or the like, including a flexible sheet folded in half to form a casing having top and bottom sides, a plurality of divider strips spaced apart and sewed to the inner faces of said sides, each of said strips being turned over to form a flanged edge along each end, each of said flanged edges being folded over to form a double thickness and hemmed between the edges of the folded casing sheet at each end of the pillow to thereby close the ends of the casing and define a plurality of closed compartments in the casing between said strips, said compartments being stuffed with resilient material, such as shredded rubber.

2,589,304
INTERLOCKING STRUCTURAL UNITS
William B. Spangler, Jefferson, Iowa
Application July 29, 1947, Serial No. 764,544
9 Claims. (Cl. 189—34)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A structural assembly comprising a plurality of interlocked, universally interchangeable, iden-

tical, elongated units interlocked together with their major transverse axes at right angles to each other and being substantially in the form of I-beams and including web portions, elongated transverse flanges formed on opposite longitudinal edges of said web portions terminating in curved lateral hook flanges extending along outer longitudinal extremities of the said transverse flanges, the said curved hook flanges depending inwardly from the said transverse flanges and providing oppositely curved, oppositely disposed recesses on opposite sides of the said web portions at the said longitudinal edges thereof, the interior surfaces of each pair of the said recesses with the surface of the web connecting the two recesses being identical in configuration to the exterior surfaces of each of the said transverse flanges including the curved lateral hook flanges thereon, said units being identical in size and shape and in interlocked relation with each other, with the curved hook flanges of certain of said units engaged in and interlocked with the said curved recesses in contiguous units of the assembly.

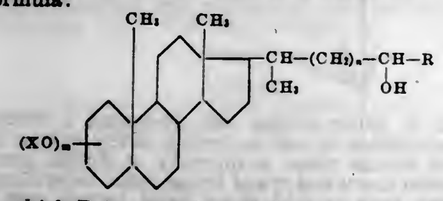
2,589,305

DEHYDRATION OF STEROID SIDE-CHAIN SECONDARY ALCOHOLS

George B. Spero, Robert H. Levin, and Frederick W. Heyl, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application December 4, 1948, Serial No. 63,615
9 Claims. (Cl. 260—397.5)

1. A process for the production of a steroid compound having an unsaturated side-chain attached to the carbon atom in the 17 position, which comprises the selective dehydration of a 17-side-chain secondary alcohol having the general skeletal steroid structure represented by the formula:



in which R is a member of the group consisting of aryl, and alkoxyaryl radicals and X is a member of the group consisting of hydrogen and alkyl radicals, and n and m are integers of the group consisting of 0, 1, and 2, which comprises heating a solution of the said secondary alcohol in an inert solvent in the presence of a dehydrating agent of the group consisting of (1) oxalic acid and (2) a mixture of para-toluenesulfonic acid and phenol, and recovering the resulting unsaturated steroid compound.

2,589,306

BLEACHABLE TRANSFER INK

Helen J. Steiner, New York, N. Y.

No Drawing. Application March 30, 1948, Serial No. 18,060
4 Claims. (Cl. 106—22)

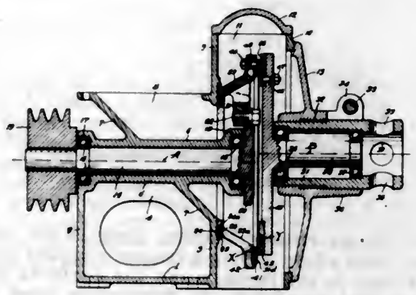
1. A water permeable, bleachable, ink composition for coating and impregnating typewriter ribbons and carbon paper comprising a meltable wax vehicle including at least ten percent of a water dispersible wetting agent for rendering said vehicle permeable to aqueous bleaching agents, and as the sole colorant a bleachable dye homogeneously dispersed through the vehicle.

2,589,307

GRAIN CUTTER

Edgar P. Symons, Hollywood, Calif., assignor to Symons Brothers Co., North Hollywood, Calif., a corporation of California

Application September 30, 1946, Serial No. 700,256
1 Claim. (Cl. 146—71.5)



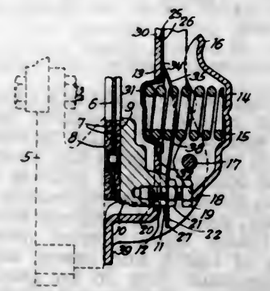
In a rotary cutter for grain and the like, a rotor including a feed-receiving portion and a surrounding cutter area having a cutting ring surrounded by an exterior plane gauging cavity of uniform depth and outwardly open to the edge of the rotor, a second rotor having a circumferential cutting ring and a similar surrounding gauging cavity, said second rotor being apertured for the delivery therethrough, toward the first rotor, of material to be cut, and means for rotating said rotors about parallel but slightly eccentric axes, said cutting rings having opposed and closely adjacent cutting surfaces, the surfaces of said gauging cavities being parallel and perpendicular to the axes of said rotors and of equal depth in relation to the cutting surfaces of said rings, the radial width of the cutting rings being substantially less than the amount of eccentricity between the axes and the radial width of both the cutting ring and the gauging surface on each rotor being greater than the amount of eccentricity.

2,589,308

FRICTION CLUTCH WITH SPRING SUPPORTED PRESSURE PLATE

W. Vincent Thelander, Auburn, Ind., assignor to Dana Corporation, Toledo, Ohio, a corporation of Virginia

Application March 22, 1946, Serial No. 656,327
6 Claims. (Cl. 192—68)



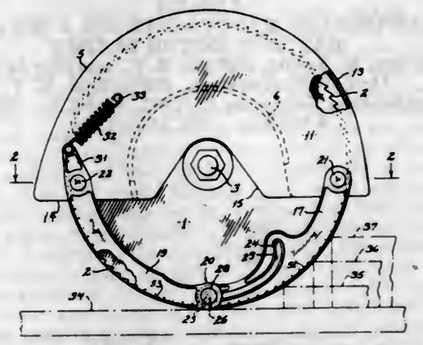
1. In a clutch comprising, in combination, a flywheel, a back plate carried thereby, a driven member, an axially movable pressure plate having a plurality of rearwardly extending drive projections in circumferentially spaced relation received with some lateral clearance in registering openings provided therefor in said back plate, spring means to transmit engaging pressure to said pressure plate, and release levers for causing disengagement, the improvement which consists in the provision in combination with said drive projections of a plurality of flexible elongated leaf springs each having a longitudinally curved portion intermediate the ends thereof, said springs being affixed at one end to said pressure plate in circumferentially spaced relation and extending radially inwardly and affixed at the other end to said back plate, said leaf springs being flexible relatively easily lengthwise to permit axial movement of said pressure plate but being flexible much less easily edgewise, whereby they are adapted to support the pressure plate so that the drive projections are substantially centered in the openings in the back plate when the pressure plate is not transmitting torque, said leaf springs resisting lateral displacement of said drive projections from centered position when the pressure plate transmits torque, until said drive projections engage one side of said openings and afford positive drive, thereby positively limiting flexure of said leaf springs.

2,589,309

CIRCULAR SAW SAFETY GUARD

John Everette Tompkins, Cleveland, Ohio, assignor, by mesne assignments, of 30/100 to Ralph R. Roemer, 35/100 to Louise E. Roemer, 25/100 to William R. Kiefer, and 10/100 to J. Everette Tompkins, all of Cleveland, Ohio

Application August 27, 1946, Serial No. 693,351
3 Claims. (Cl. 143—159)



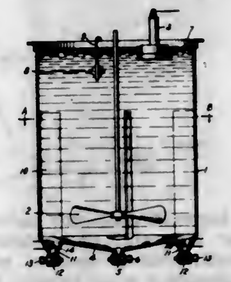
1. A guard for a lower working tooth section of a circular saw, comprising a two-part guard element; the parts being pivotally supported at points laterally spaced at opposite sides of the saw rotational axis, and above the planes of relative feeding movement of the saw and work; and both parts depending from their pivot supports and extending inwardly under the saw axis; spring means engaging at least one of said parts to bias said guard pivotally downward away from the saw axis; and the parts having each a marginal portion opposite to and laterally spaced from a corresponding part of the saw tooth section and in the path of work fed to the saw; a pin and slot sliding and hinging connection connecting them together at their lower inner ends and limiting downward biased movement thereof; and causing the marginal portions of both to concurrently pivotally move upwardly by engagement of either of the parts with work fed to the saw in one direction or the other, and slidable on the fed work.

2,589,310

PROCESS FOR THE MANUFACTURE OF ARTIFICIAL CRYSTALS

Marcel Tournier, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware

Application February 12, 1948, Serial No. 7,878
In France October 25, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 25, 1966
6 Claims. (Cl. 23—301)



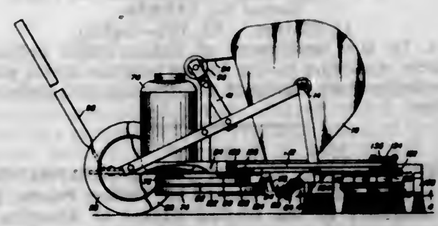
1. A process for preparation of artificial crystals comprising the steps of obtaining a supersaturated solution of a salt in a solvent, applying to said supersaturated solution mechanical vibrations, eliminating any deposit of crystal nuclei formed on impurities in said solution by said mechanical vibrations, then introducing into said solution crystal nuclei to constitute the centers of the desired crystals, and forming said crystals on said nuclei.

2,589,311

FLUENT MATERIAL DISPENSER AND SPREADER

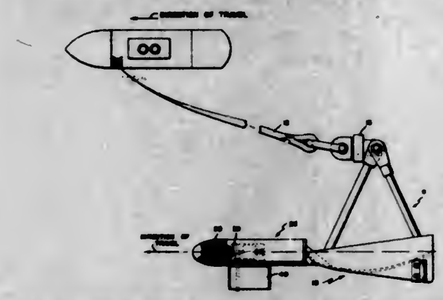
Robert W. Turner, Port Jefferson, Ohio

Application September 26, 1949, Serial No. 117,807
4 Claims. (Cl. 91—25)



1. A fluent material applicator comprising a base having wheels at one end and a brush assembly at the opposite end, a fluent material supply hopper carried by said base for oscillation and provided with means for oscillating said hopper, a heater disposed adjacent the discharge end of said hopper, a valve disposed at the discharge end of the hopper and having a manual means for actuating the valve, said brush assembly being disposed rearwardly of said hopper and including a plurality of rotary brushes with flanking stationary brushes, said hopper oscillating means including a motor secured to said base and a belt and pulley transmission connecting said motor and said hopper, and means secured to said base and operatively connected with said transmission for manually controlling the operation of the transmission.

2,589,312
NONBUOYANT PARAVANE
Kenneth H. Wilcoxon, Cabin John, Md.
Application July 6, 1948, Serial No. 37,177
3 Claims. (Cl. 114—235)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A non-buoyant protector paravane comprising a water kite and hydrostatic-pressure-responsive depth control means; said kite being formed to provide a wing having a concave face and a convex face respectively; attaching means on said concave face adapted for securement to a tow line, thereby providing means for making a towing connection with a craft; said concave face being positioned in a generally forward position and said kite extending in a generally vertical position when in use; said wing having a forward leading marginal portion and an after trailing marginal portion; said depth control means being attached to a forward marginal portion of said wing and disposed forwardly thereof and forwardly of said concave face.

2,589,313
TREATING LITHOGRAPHIC PLATES
William H. Wood, University Heights, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application June 21, 1944, Serial No. 541,476
12 Claims. (Cl. 101—149.2)

1. In the treatment of lithographic printing plates, applying to the image bearing metal plate a solution essentially of a polysaccharid carboxyether.

2,589,314
PREPARATION OF KETO ACID COMPOUNDS
Lyle C. Woods and Howard M. Teeter, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application June 27, 1950, Serial No. 170,676
6 Claims. (Cl. 260—406)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. Method which comprises subjecting a fatty acid ester containing at least 8 carbon atoms in the carbon chain of the acid radical, said chain also containing the chlorohydrin ether grouping:

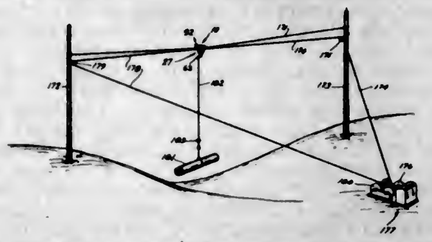


in which R represents a radical of the group consisting of aliphatic and aromatic radicals attached to the ether oxygen through a non-tertiary carbon atom to the action of heat at a temperature within the range of 150°–300° C. and a pressure of 1 to 200 millimeters of mercury to convert the chlorohydrin ether grouping into the



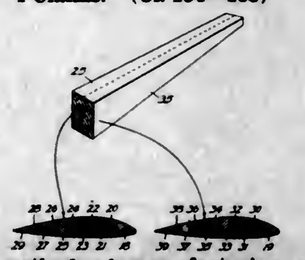
group, and isolating the resulting keto acid ester from the reaction mixture.

2,589,315
SKY LINE LOGGING CARRIAGE
James L. Yelton, Bellingham, Wash.
Application March 15, 1948, Serial No. 14,971
18 Claims. (Cl. 212—122)



1. Load pick-up and transporting devices comprising an overhead track cable; a carriage mounted to travel thereon; cable clamp means carried by the carriage operable to grip the cable and support the carriage immovable on the track cable; and fluid pressure devices carried on the carriage and responsive to movement and stoppage of said carriage relative to said track cable and connected with said cable clamp means for operating the same.

2,589,316
METHOD OF MANUFACTURING A SET OF MATCHED ROTOR BLADES
Arthur M. Young, Buffalo, N. Y., assignor to Bell Aircraft Corporation, Wheatfield, N. Y.
Application November 12, 1947, Serial No. 785,310
4 Claims. (Cl. 154—133)

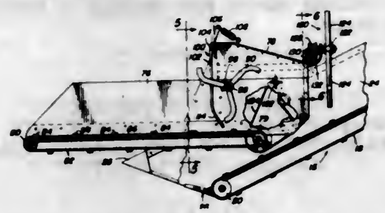


1. The method of manufacturing a set of matched rotor blades comprising cutting from a piece of wood one lamina for each blade, said laminae being cut in juxtaposed relation from said wood piece, and assembling one of said laminae together with at least one other lamina in the same relative position in each blade.

2,589,317
NONFOAMING OIL COMPOSITION CONTAINING POLYMERIC SILICONE
David W. Young, Roselle, and Salvatore George Gallo, Elizabeth, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 10, 1945, Serial No. 572,258)
13 Claims. (Cl. 252—49.6)

1. An improved oil composition comprising a major proportion of a hydrocarbon oil of the gas oil to lubricating oil viscosity range, having dissolved therein a foam-reducing amount of an oil-soluble solid gel repolymerization product of a liquid hydrocarbon-silicone polymer, said repolymerization product having been formed through the use of a bromine-containing catalyst at a temperature of about 0 to 200° C., said bromine-containing catalyst being selected from the group consisting of elemental bromine and Friedel-Crafts metal bromides.

2,589,318
THRESHER ATTACHMENT
Harvey Ahlmeyer, Ogallala, Nebr., assignor of one-half to Roscoe Lunger, Ogallala, Nebr.
Application May 9, 1949, Serial No. 92,180
1 Claim. (Cl. 130—1)



An attachment for a combine which includes an elevator having sides and a longitudinal axis, said attachment comprising a frame detachably carried by at least one of said sides, a conveyor disposed on said frame and above said elevator and having its longitudinal axis substantially parallel to the first mentioned axis, a bundle cord cutter carried by said frame for cutting the cord on bundles moved by said conveyor, means for operating said cutter and said conveyor from power of the combine, a rotary spreader drivingly connected with said operating means and including spokes arranged to rotate in a plane normal to said axes, said spreader being disposed behind said cutter and above said elevator, said spreader being carried by said frame to spread the material of the bundles transversely of said axes after the cords thereof have been cut, said spreader being disposed in part between said sides and above said elevator whereby the spread material is directed against the elevator for conveyance into a part of the combine, a plurality of arms pivotally carried by said frame above said conveyor and forming a grate, said cutter blades being passed between said arms, means connecting said arms together so that the arms move in unison, and a spring fastened to the last mentioned means and said frame yieldingly opposing the pivotal movement of said arms.

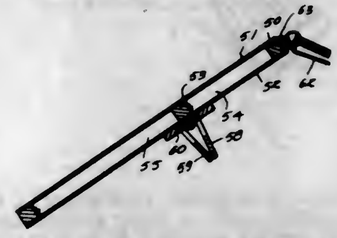
2,589,319
PORTABLE SOUNDING DEVICE
Richard M. Albrecht, Le Claire, Iowa, assignor to Victor Animatograph Corporation, Davenport, Iowa, a corporation of Delaware
Application February 1, 1946, Serial No. 644,895
9 Claims. (Cl. 312—7)

1. A portable sounding device comprising a sound reproducing unit and a pair of hollow, telescopically interfitting housing members of resonant material forming a collapsible mounting structure for said reproducing unit, one of said housing members having an open top and forming a carrying case member sized to telescopically receive another of said members, said other member having a lateral wall forming a mounting panel for said reproducing unit and having an open bottom and a closed top formed for interfitting engagement with said open top of the carrying case member whereby to provide a cover for enclosing the same when said housing members are in relatively collapsed position,



said open top carrying case member serving, in cooperation with said open bottom mounting member, to form a hollow columnar sound baffle for said unit when the members are telescopically extended in operating position.

2,589,320
KIT FOR ARTISTS
Charles T. Allenbrook, New Rochelle, N. Y.
Application June 15, 1949, Serial No. 99,201
2 Claims. (Cl. 312—231)

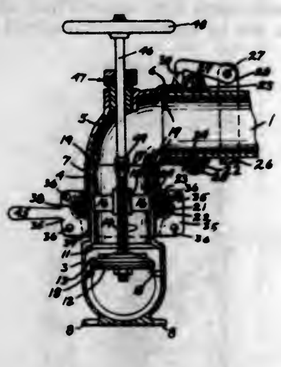


1. In a sketching kit comprised of a pair of hingedly connected panels, one of which forms a writing surface, a plate pivotally secured to the center portion of the other of said panels for rotation relative thereto, and a handle pivoted to said plate whereby said plate may be adjusted to any one of a plurality of desired angles relative to the hand of the user.

2,589,321
IRRIGATION SYSTEM
William A. Anderson, Spokane, Wash., assignor to Andersen-Miller and Peston Mfg. Co., Spokane, Wash.
Application March 4, 1948, Serial No. 13,040
3 Claims. (Cl. 137—69)

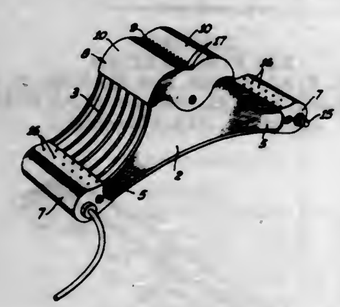
1. A valve controlled coupling comprising a lower section having a neck extending upwardly, an upper section having a lower arm fitting about the neck of the lower section, a valve in the lower section having an upwardly extending stem, a sleeve mounted vertically in said neck and through which said stem is threaded, a seat for said valve about the lower end of the neck, and a shaft slidably and rotatably extending into the upper section through the top thereof and

detachably engaged with the upper end of said stem for turning the stem and moving the valve



relative to the seat to opened and closed positions.

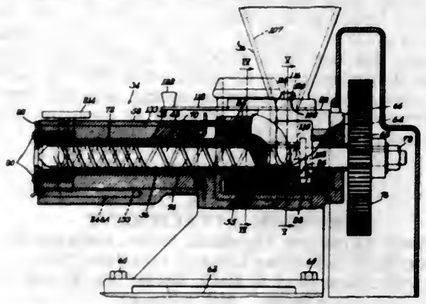
2,589,322
MASSAGING MACHINE
Edna Mae Archer, Los Angeles, Calif.
Application November 14, 1949, Serial No. 127,135
9 Claims. (Cl. 128—36)



1. A massaging device, comprising: a shell defining a motor cavity; a motor and eccentric mass rotatable thereby mounted in said cavity to vibrate said shell; and arms directed laterally in opposite directions from one side of said shell in obtuse relation to define a concave massaging arch, said arms defining with other sides of said shell other concave massaging surfaces of lesser radius than said arched surface.

2,589,323
EXTRUDER INJECTOR COMBINATION FOR USE IN THE ATTACHMENT OF HEELS TO SHOES
John W. Ashley and James F. Leahy, Beverly, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 4, 1950, Serial No. 177,650
5 Claims. (Cl. 18—30)

1. An extruder comprising a resin receiving section and a resin plasticising section, units for heating said plasticizing section, air circulating means for cooling said receiving section, a conveyor for advancing resin through said receiving and plasticising sections, registering means responsive to the temperature of the resin in the plasticizing section, mechanism for operating said conveyor, and means for rendering said mechanism inactive until the temperature of the resin in the plasticizing section as registered by said



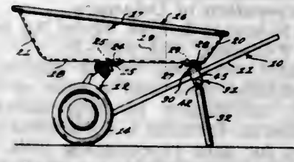
second-named means has attained a predetermined degree.

2,589,324
FRUIT PITTING CHUCK
George W. Ashlock, Jr., Oakland, Calif.
Application November 3, 1950, Serial No. 193,927
4 Claims. (Cl. 146—17)



1. A chuck for the orienting and pitting of an elongated fruit having a major and a minor axis, the chuck comprising a receptacle having a cavity therein symmetrically disposed about its major axis and defined by an upper conoidal portion and a lower conoidal portion adjacent to said upper portion, said upper portion being in the form of an inverted frustrum of a cone and having its largest diameter approximately equal to the major axis of the fruit, with opposite cavity walls at an angle of from 50° to 90°, said lower portion continuing and being of smaller diameter than said upper portion and in the form of an inverted frustrum of a cone with opposite cavity walls at an angle of from 22° to 44° and at least 20° smaller than the angle included between the opposite cavity walls of said upper portion, the upper portion being of a heighth measured along said cavity axis which is at least about 15% of the minor axis of the fruit, the lower portion having a heighth measured along said cavity axis of at least about 55% of the major axis of the fruit.

2,589,325
BARROW ATTACHMENT FOR LAWN MOWERS
Albert W. Bachman, Parma, Ohio
Application April 19, 1949, Serial No. 88,309
2 Claims. (Cl. 280—51)



1. In a lawn mower including a wheeled truck and a wheelbarrow body pivotally supported on said truck, means for hitching said wheelbarrow body to a handle operatively connected to said wheeled truck, said means comprising a U-shaped

bracket circumposed about said handle and clampingly secured thereto, a transverse bar disposed within said bracket adjacent to and spaced from the bight thereof to thereby form a slot, opposed flanges on the free ends of the legs of said bracket and forming with said bar and legs a space through which the adjacent portion of said handle extends, a pair of straps dependingly carried by said flanges, a supporting leg interposed between said straps and having one end pivotally secured in said straps, and a hook carried by the bottom of said wheelbarrow body and engageable in said slot to thereby detachably secure said wheelbarrow body to said handle.

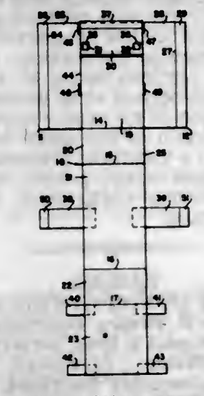
2,589,326
ORGANIC PHOSPHORUS ESTER-P_2S_5 REACTION PRODUCTS AND OIL COMPOSITIONS CONTAINING THE SAME
Edward A. Oberright, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application December 21, 1949, Serial No. 134,356
15 Claims. (Cl. 252—46.6)

8. A mineral lubricating oil containing a small amount, sufficient to stabilize said oil against oxidation, of a phosphorus- and sulfur-containing product obtained by reacting from about 1/8 mol to about 1 mol of phosphorus pentasulfide with 1 mol of an alkenyl phosphite ester of the general formula



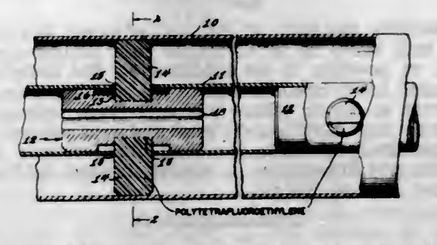
wherein R is a radical selected from the group consisting of alkyl, aryl, alkaryl and alkenyl radicals, at least one R being an alkenyl radical, at a temperature of from about 100° C. to about 200° C.

2,589,327
SAFETY RAZOR AND PROTECTIVE CASING
Evelyn M. Biggs, Pawtucket, R. I.
Application December 7, 1948, Serial No. 63,876
5 Claims. (Cl. 30—47)



1. A disposable safety razor comprising an elongated rectangular body of foldable sheet material having transversely disposed fold lines dividing it longitudinally into six consecutively arranged sections and longitudinally disposed fold lines dividing it transversely at one end into three contiguous sections of which the center section is one of said six consecutively arranged sections, means supporting one terminal section of said six contiguous sections at an acute angle to the section adjacent thereto, a razor blade carried by said one terminal section, tabs on an intermediate one of said six consecutively arranged sections engageable with the other terminal section to hold said sections in that one of two folded conditions in which they constitute a container inclosing said razor blade, and tabs on the other terminal section of said six consecutively arranged sections engageable in slots between said center section and side sections of said three contiguous sections to hold said sections in the other of said two folded conditions in which they constitute a blade handle extending from one edge of said one terminal section.

2,589,328
COAXIAL TRANSMISSION LINE SPACING ASSEMBLY
Lewis A. Bondon, Arlington, N. J.
Application November 6, 1950, Serial No. 194,307
8 Claims. (Cl. 178—44)

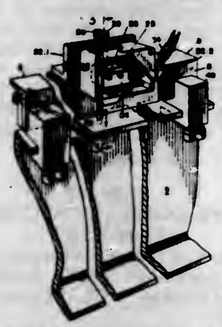


1. An electrical transmission line comprising hollow, cylindrical inner and outer conductors and spacing assemblies radially disposed within said outer conductor at spaced points throughout its length for maintaining said conductors in concentric relation, each of said assemblies comprising a short cylindrical conductor member slidably mounted within said inner conductor with its outer surface in engagement with the inner surface of the inner conductor, said member having a circumferential channel formed on its outer surface intermediate its ends and radially disposed insulating pins extending through the wall of said inner conductor with their inner ends projecting into said channel and engaging said member and their outer ends engaging the inner surface of said outer conductor, the depth of the channels formed in the cylindrical members of said insulating assemblies being such as to equalize the transmission line characteristic impedance at an insulating assembly with the characteristic impedance of said transmission line in the air space portions between insulating assemblies, whereby the characteristic impedance of the transmission line will be constant.

2,589,329
SAFETY CONTROL DEVICE FOR ELEVATORS
Joseph Berovec, Berwyn, Ill.
Application May 16, 1950, Serial No. 162,199
8 Claims. (Cl. 187—29)

8. In combination an elevator, an operating control circuit for said elevator, a bar of a length nearly equal to the length of the hitch beam of said elevator, a switch attached to said bar intermediate the ends thereof, said switch mounting two pairs of normally open contacts and a switch member movable to successively effect the closing of said pairs of contacts, a signal, a pair of switches one of which is located in said control circuit, a solenoid located to simultaneously

operate said pairs of switches, a second signal, circuits respectively connecting in parallel one pair of said switch contacts and said first-mentioned signal and the other pair of said switch contacts and said solenoid with a source of electrical energy, a third circuit connecting the other solenoid-operated switch and said second signal with a source of electrical energy, and means for

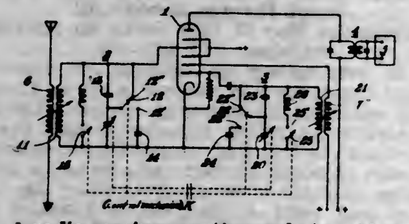


attaching the ends of said bar adjacent the ends of said beam so as to locate said switch member in position to be actuated by the deflexure of said hitch beam intermediate said bar attachments so as to effect the successive operation of said first-mentioned signal and said solenoid to respectively indicate the load-limit on said elevator and immobilize its operation when said elevator is over-loaded.

2,589,330
ANTICAKING AGENT FOR CLEANSING POWDER
Purdy Bradford, Palos Park, and Herman J. White, Lansing, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application August 5, 1948, Serial No. 42,743
6 Claims. (Cl. 252—140)

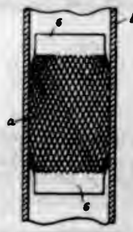
1. A substantially non-caking cleansing powder consisting essentially of finely divided trisodium phosphate, particles of silica as an abrasive, and an amount from 0.1 to about 3 percent of a powdered anti-caking agent selected from the group consisting of metallic magnesium and compounds thereof.

2,589,331
RADIO-FREQUENCY RECEIVER WITH BAND-SPREAD TUNING
Henricus Adrianus Broos, Eindhoven, Netherlands, assignor, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 26, 1946, Serial No. 665,033
In the Netherlands November 12, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires November 12, 1962
3 Claims. (Cl. 250—40)



1. A radio receiver continuously tunable over a wide frequency band and tunable with band-spreading over a relatively narrow frequency band, comprising a variable tuning capacitor having two variations of its capacitive range within its total mechanical range of variation, a fixed capacitor, an inductance element, switching means selectively to couple said variable capacitor to said inductance element to produce a resonant circuit tunable over a first frequency range and to couple said variable capacitor and said fixed capacitor to said inductance element to produce a resonant circuit tunable over a second frequency range, said second frequency range being relatively narrow with respect to said first frequency range, means coupled to said variable capacitor to vary the same through its said range of variation, and means actuated by said capacitor variation means to actuate said switching means to switch said circuits at a position of said variable capacitor at which a predetermined capacity value of said variable capacitor is provided.

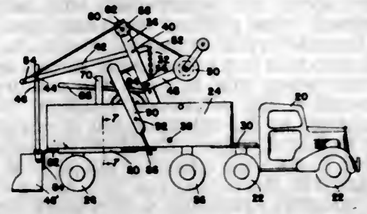
2,589,332
RESILIENT SEALING MEMBER FOR PISTONS, PLUNGERS, OR THE LIKE
Norman Fraser Brown, Surrey, England, assignor to N. F. B. Displacement Pump Co. Limited, London, England
Application April 21, 1949, Serial No. 88,796
In Great Britain February 13, 1947
17 Claims. (Cl. 309—23)



1. A sealing member adapted to make sliding sealing engagement with a cylindrical surface, said sealing member comprising a hollow cylindrical body the medial portion of which is formed by a series of intersecting ribs disposed in right and left hand helical relation and thin wall portions of resilient material extending between the ribs to bridge the hollow spaces formed between adjacent intersecting rib portions said ribs and said thin wall portions being so arranged that alteration in the normal axial length of the body by the application of an axially applied force will produce a variation of the angle of intersection of said ribs and a resultant alteration in the diameter of the said medial portion of the body to make sliding sealing engagement with the said cylindrical surface.

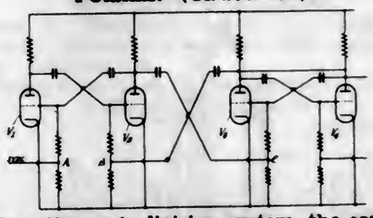
2,589,333
TOY HOISTING TRUCK
Orville R. Brown, Danville, Ill.
Application August 2, 1946, Serial No. 688,042
1 Claim. (Cl. 46—40)

A toy of the character described, comprising a truck cab, a trailer connected to said truck, said trailer having a bottom and sides outlining the marginal edge of the bottom, a hoisting means mounted within the sides of the trailer and secured to the sides of the trailer comprising a crane, a lift on said crane and a boom on said lift, a shovel on the boom, means on the crane cooperating with the shovel for the dumping thereof when the shovel has been moved upwardly by the hoisting apparatus, means slidably carried by the trailer, manually operated means pivotally mounted on the side of the trailer and



coacting with said last means to move said means into engagement with the shovel when the shovel has been lowered by the hoisting apparatus for the loading of the shovel.

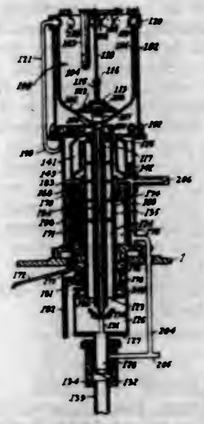
2,589,334
CIRCUIT ARRANGEMENT FOR TIME SUBDIVISION
Geoffrey D'Arcy Browne, Upper Norwood, London, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application June 19, 1948, Serial No. 34,090
In Great Britain June 18, 1947
4 Claims. (Cl. 250—36)



1. In a time sub-division system, the combination comprising first and second generators for producing periodic voltages having a rising portion and a trailing portion, and including first and second input circuits for controlling the time position of said rising and trailing portions respectively, the periodicity of said second generator being a multiple of said first generator, means to apply synchronizing pulses to the first input circuit of said first generator to initiate the rising portion of the periodic voltage produced therein, means to apply the periodic voltage developed by said first generator to the input circuit of said second generator to initiate the rising portion of the periodic voltage produced therein, and means to apply the periodic voltage developed by said second generator to the second input circuit of said first generator to control the time position of the trailing portion of the periodic voltage produced therein.

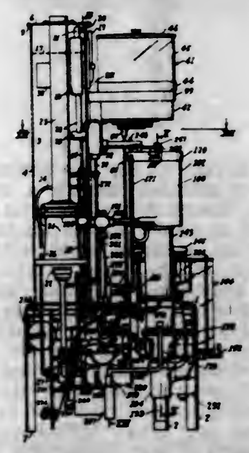
2,589,335
COFFEE MAKER
Louis Burgess, Jersey City, N. J.
Original application July 12, 1947, Serial No. 760,599. Divided and this application October 28, 1949, Serial No. 124,064
5 Claims. (Cl. 99—283)

1. In a coffee maker comprising a vertically disposed centrifuge of the imperforate overflow self-dumping type adapted to maintain a tubular body of liquid in said centrifuge during rotation, a receptacle, a rundown tube extending from said receptacle into said centrifuge, a dispenser surmounting said receptacle, a timer, means controlled by said timer for introducing a predetermined amount of water and means controlled by said timer for transferring a predetermined charge of ground roasted coffee from said dispenser into said receptacle, means for comingling said predetermined amount of water with said coffee in said receptacle to form a mixture, the improvement consisting in that said centrifuge is divided into an upper and a lower tubular sec-



tion, said upper section being of lesser diameter than the lower section, said upper section terminating in an inwardly projecting overflow lip, said lower section having a centrifugal volumetric capacity at least equal to the volume of said charge and carrying centrally and axially positioned a downwardly projecting discharge outlet defining a discharge opening of lesser diameter than the inside diameter of said overflow lip.

2,589,336
COFFEE MAKER
Louis Burgess, Jersey City, N. J.
Original application July 12, 1947, Serial No. 760,599. Divided and this application October 28, 1949, Serial No. 124,066
7 Claims. (Cl. 99—289)



1. In a coffee maker including a vertically disposed centrifuge of the imperforate overflow self-dumping type, a receptacle, a rundown tube extending from said receptacle into said centrifuge and a dispenser, which dispenser has a bottom

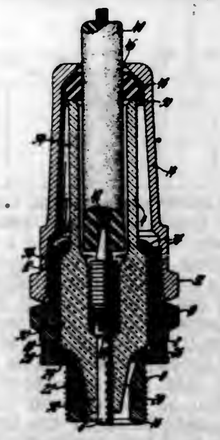
outlet surmounting said receptacle, and a hub carrying radial vanes forming with said radial vanes a number of charge-forming pockets, which hub is adapted by rotational movement to carry successive charges of ground roasted coffee into position over said bottom outlet and a cover plate overlaying the pocket which is above said bottom outlet, said coffee maker including also means for co-mingling hot water with ground roasted coffee in said receptacle to form a mixture, and a timer operatively controlling the aforesaid elements in a cycle in which hot water and ground roasted coffee are first co-mingled in said receptacle to form a mixture, which mixture is thereafter fed into the said centrifuge by which it is separated into a clarified extract which overflows the said centrifuge and a residue of grounds remaining in the said centrifuge following which said centrifuge is arrested to dump the said residue, the improvement of a door controlling said bottom outlet and means operatively connected to the said timer to open and close said door at the commencement of an operating cycle and to turn said hub-carrying radial vanes during the remainder of said cycle.

2,589,337
LINER HANGER
Erwin Burns, Los Angeles, Calif.
Application November 16, 1948, Serial No. 60,365
2 Claims. (Cl. 166—1)



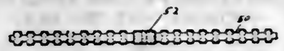
1. A liner hanger or the like comprising a cylindrical body member having a central bore therethrough, means at the lower end of said bore for attaching to said member an article to be supported by said member, a coarse female screw thread formed in the upper end of the bore through said body member, a male-threaded connecting nut screwed into said female thread and being formed with a shoulder abutting against the upper end of said body member, a plurality of wickered retractable slips mounted around the outer circumference of said body member, spring members tending to urge said slips to their gripping positions, an upper cylindrical extension formed as a part of said connecting nut, a compression ring removably mounted on said cylindrical extension and freely rotatable around the axis thereof, means carried by said compression ring for engaging said slips to urge the slips to their retracted positions, said engaging means interlocking with said body member to hold the said compression ring against rotation relative to said body while permitting the connecting nut to rotate therein, a relatively fine male thread provided on the outer surface of said cylindrical extension above said compression ring, said fine male thread being pitched oppositely from said coarse female thread aforesaid, a releasing nut screwed onto said last named male thread against said compression ring to force the compression ring toward a slip retracting position, friction means carried by the releasing nut to engage the interior wall of a casing into which the structure is lowered to hold the releasing nut against rotation relative to the connecting nut, and a square tubular mandrel extending downwardly through a square passageway in the connecting nut and movable longitudinally with relation thereto said mandrel carrying a mandrel nut for supporting said connecting nut, said mandrel engaging the square passageway in said connecting nut to impart positive rotation to said connecting nut.

2,589,338
SPARK PLUG
Alfred Candelise, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 4, 1948, Serial No. 63,516
9 Claims. (Cl. 123—169)



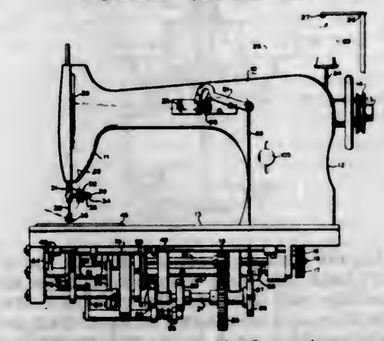
9. In a spark plug, a hollow metallic casing having an internally tapered shoulder and an inturned end, said casing being externally threaded adjacent said inturned end, an insulator disposed in said casing, said insulator being provided with a recessed upper end for receiving an ignition cable and an enlarged mid-portion with an upper and lower tapered shoulder, a soft metal gasket interposed between said inturned end and upper shoulder, a spring steel washer interposed between said internally tapered and lower shoulders, said washer being resiliently dished to provide line contact engagement between radially spaced diagonal edges of said washer and said lower and internally tapered shoulders thereby permitting differential expansion between said casing and insulator while simultaneously maintaining substantially uniform contact sealing engagement between said soft metal gasket, spring steel gasket, insulator and casing, and an internally threaded shield in threaded engagement with said casing adjacent said inturned end, said casing having an aperture therein to receive and dispose an ignition cable in said recessed upper end.

2,589,339
WINDSHIELD WIPER BLADE
Stanley R. Carson, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Michigan
Application April 24, 1946, Serial No. 664,660
3 Claims. (Cl. 15—245)



1. A windshield wiper blade, comprising in combination; a resilient wiper of tubular cross section, said wiper being hermetically sealed so that the tubular portion thereof contains air under atmospheric pressure, a spring metal backbone for carrying said wiper, said backbone including a plurality of integral and spaced attachment clips throughout its length, said clips being used to clamp the wiper to the backbone, and attachment means associated with the backbone for attaching the windshield wiper blade to a windshield wiper motor, said backbone having an ever-decreasing cross sectional area as the distance from said attachment means increases whereby certain portions of the backbone are more easily flexed than other portions thereof.

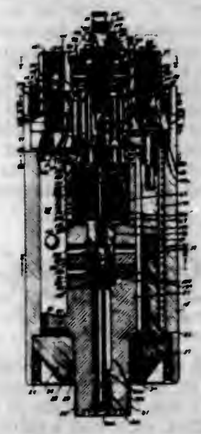
2,589,340
SKIP STITCH MACHINE
Bynom L. Chambers, Dalton, Ga., assignor, by mesne assignments, to Dixie-Belle Spread Co., Inc., Calhoun, Ga.
Application April 29, 1948, Serial No. 23,983
4 Claims. (Cl. 112—79)



1. A tufting machine attachment for a sewing machine comprising a looper, a cutting element pivotally secured thereto, means for actuating the looper and separate means to periodically close said cutting element against said looper whereby to sever loops of yarn formed thereon, and means to feed work through the machine concurrently with the forming and severing of the loops, said means, comprising a pair of synchronized feed dogs, means to drive said dogs, and means to cause one of said dogs to periodically rise above the other and take a long or skip stitch.

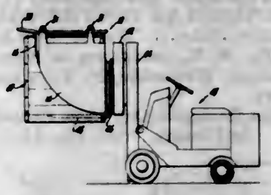
2,589,341
HYDRAULIC STEERING MOTOR AND SHIMMY DAMPENER
Harry L. Chisholm, Jr., George Farrell, and Bernard E. O'Connor, Buffalo, N. Y., assignors to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application September 6, 1946, Serial No. 695,112
16 Claims. (Cl. 121—41)

1. In combination in a device to be operated by hydraulic pressure fluid, means defining a fluid tight housing, means within said housing adapted to be actuated by the force of live pressure fluid, means for introducing the live pressure fluid into said housing, means affording an outlet for spent hydraulic fluid, a valve assembly including a plurality of poppet valves for controlling the passage of live pressure fluid from said inlet to said means to be actuated by the fluid and for controlling the displacement of



the hydraulic fluid from said means to be actuated to said outlet, means for selectively actuating said poppet valves, said actuating means including a rocker plate having a ball arm extending therefrom and a fork engaging said arm and selectively swingable for rocking the arm and thereby rocking the plate, and means for shifting said fork into and out of a position wherein the fork is engageable with said rocker plate for holding the plate inactive.

2,589,342
LIFT TRUCK ACCESSORY
Carl O. Christensen, Walnut Creek, Calif., assignor to Roll-Rite Corporation, Oakland, Calif., a corporation of California
Application September 30, 1948, Serial No. 52,024
3 Claims. (Cl. 214—65)



1. A lift truck accessory comprising a framework having side walls, vertical posts disposed along said side walls, a rim secured to the upper ends of said posts and a revoluble roller secured to each post and extending inwardly of the framework, said rim extending between the side walls.

2,589,343
FISH BAIT
Peter P. Cieslik, Detroit, Mich.
Application December 7, 1945, Serial No. 633,549
3 Claims. (Cl. 43—35)

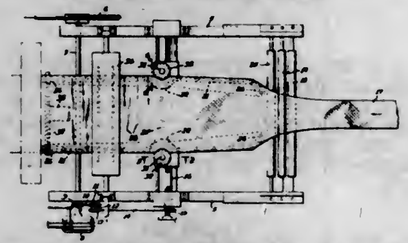
1. A fish bait of the class described, comprising: a body slitted at one end to provide a slot projecting inwardly thereof, said body having a bore formed therethrough, said bore being

larger at one end than at the other and said larger end of said bore opening into said slot, there being formed inwardly from the opposite end of said body an inclined slot opening at one end into the smaller portion of said bore; a rod slidably projected through the smaller portion of said bore and terminating at one end in the larger portion of said bore; a radially projecting collar fixedly mounted on said rod inwardly from said end thereof; a tongue on said rod projecting beyond said collar and forming an extension of said rod; a coil spring embracing said rod and bearing at one end against one face of said collar and at its opposite end against the end wall of the larger portion of said bore; a pair of fish hooks pivotally connected at one end to said tongue and each being provided with a shank angularly turned intermediate its end, said rod having a recess formed in its periphery at the



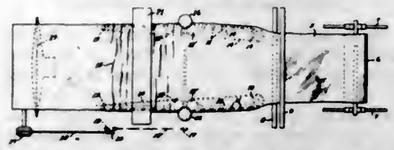
portion slidable in said smaller bore; a pawl rockably mounted in said inclined slot and adapted for engaging at one of its ends in said recess for releasably holding said rod against said slidable movement, upon movement of said rod in a direction to compress said spring, said hooks, upon sliding of said rod in a direction to compress said spring, engaging, at a portion of their shanks within the larger portion of said bore and the remaining portions of said looks contained within said first named slot; resilient means for normally maintaining said pawl in engagement with said recess; an arm projecting outwardly from said body and connected at one end to one end of said pawl for rocking said pawl to disengage the same from said recess; and a pin carried by said body and extending across the larger portion of said bore for engaging said hooks and spreading the same apart upon movement of said rod in response to the pressure of said spring.

2,589,344
METHOD OF AND APPARATUS FOR TREATING TUBULAR TEXTILE FABRICS
Samuel Cohn, Jules G. Walter, and Eugene Cohn, New York, N. Y., assignors to Samcoe Holding Corporation, Woodside, N. Y., a corporation of New York
Application December 10, 1949, Serial No. 132,374
30 Claims. (Cl. 26—18.5)



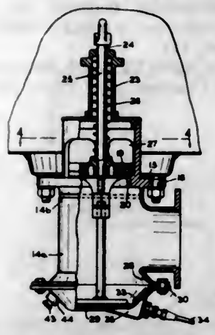
1. The method of treating tubular textile fabric which comprises spreading the fabric to flattened form and advancing rearward and forward portions at differential speeds so that the forward portion is relaxed and completely free from longitudinal tension, and applying steam simultaneously to the upper and lower sides of the relaxed and advancing fabric.

2,589,345
METHOD OF TREATING TUBULAR TEXTILE FABRIC
Samuel Cohn, Jules G. Walter, and Eugene Cohn, New York, N. Y., assignors to Samcoe Holding Corporation, Woodside, N. Y., a corporation of New York
Application January 4, 1950, Serial No. 136,698
9 Claims. (Cl. 26—18.5)



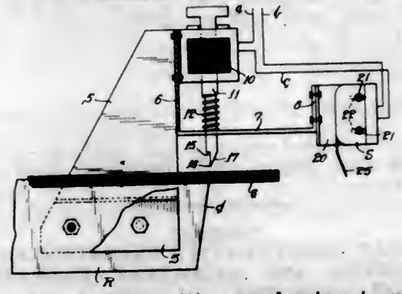
1. The method of finishing tubular textile fabrics which comprises advancing the fabric in a flattened form, relaxed and transversely riffled, applying steam to the relaxed and riffled fabric, and immediately thereafter winding the fabric while it is relaxed and longitudinally compressed.

2,589,346
EMERGENCY VALVE
Joseph H. De Frees, Warren, Pa.
Application October 13, 1948, Serial No. 54,335
2 Claims. (Cl. 137—21)



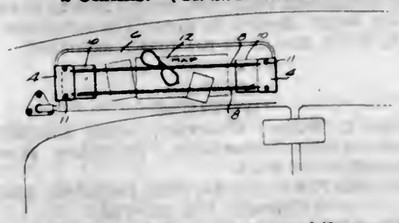
1. Liquid discharge control means for a liquid storage tank provided with a discharge aperture in a bottom wall thereof, comprising a valve housing fixed in said aperture and extending partially upwardly within said tank, and partially downwardly without said tank, an annular valve seat within said housing, a valve of the internal poppet type seating downwardly against the peripheral edge of said valve seat, spring means normally biasing said valve to seated position, a pressure head carried on the lower end of said valve housing, a flexible leak proof diaphragm extending transversely of said housing between peripheral edge gripped in leak proof relationship between said pressure head and said housing, and means engageable with said diaphragm and said valve for effecting unseating movement of said valve against the bias of said spring when fluid pressure is admitted to said pressure head, a discharge passage extending laterally from said housing immediately above said diaphragm, the flexible central portion of said diaphragm being at approximately the level of the lowest point of said discharge passage, and the annular portion of the diaphragm radially outwardly of the central portion cooperating, when in valve open position, with the valve housing in such manner as to preclude the formation of a sump below said lowest point of said discharge passage whereby the upper surface of said diaphragm is completely drainable by gravity into said discharge passage when the valve is open to permit downward liquid discharge.

2,589,347
STAPLE STRIP CUTTING MECHANISM
Le Roy Demerath, Chicago, Ill., assignor to Vail Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 13, 1950, Serial No. 155,711
2 Claims. (Cl. 164—47)



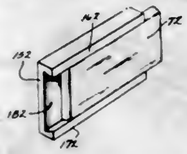
1. A staple strip cutting mechanism in which is comprised a guide rail having a horizontal upper edge and vertical side faces and being of a size to receive and support a straddling strip of staples while said strip is advanced to a position beyond the delivery end of the guide rail, a supporting frame associated with the guide rail adjacent its delivery end, a solenoid carried by the frame, a plunger movable within the solenoid and having a vertical axis disposed in a plane substantially coincident with the delivery end of the guide rail, a cut-off knife at the lower end of the plunger reciprocable vertically and movable downwardly to a point past the delivery end of the guide rail in close proximity thereto, a bracket arm carried by the frame and extended laterally therefrom in parallelism with the guide rail and above the advancing staple strip, a normally open switch carried by the bracket arm at a point above and ahead of the advancing staple strip, an operating lever for the switch depending therefrom in the path of the advancing strip, and circuit connections between a source of electrical energy and the solenoid and switch, the switch lever, when engaged by the foremost staple in the advancing strip, acting to close the circuit to energize the solenoid for driving the plunger and cut-off knife downwardly whereby to sever a predetermined length of staples from the strip at a point substantially even with the delivery end of the guide rail and clear of the switch and its supporting arm.

2,589,348
ATTACHMENT FOR AUTOMOBILE SUN VISORS
Ervin P. Diefenbach, Milwaukee, Wis.
Application January 29, 1947, Serial No. 725,090
2 Claims. (Cl. 224—42.42)



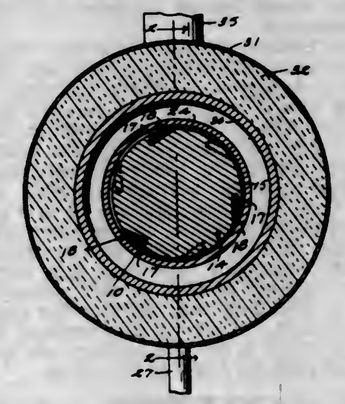
2. An attachment for an automobile sun visor comprising a pair of plates having opposed, hook-shaped channels, helical tension springs extending in substantial parallelism between the plates for the support of articles removably positioned between the springs and visor, and having hooks at their ends engaged with the plates, and transparent envelopes attached to the plates and projecting therefrom to lie between the visor and the point of connection between the springs and the plates.

2,589,349
MAGNETIC KEY CASE
Ervin P. Diefenbach, Milwaukee, Wis.
Application November 10, 1948, Serial No. 59,353
4 Claims. (Cl. 206—19.5)



1. A key container comprising a shallow pan member and a closure member for said pan, one of said members having spaced and permanent magnetic poles extending longitudinally of its sides and in fixed connection therewith, said poles being exposed and of sufficient strength for the magnetic mounting and support of said pan and the contents thereof against a magnetic surface, said poles projecting from the said closure to form flanges, between which flanges the pan is movable respecting the closure and poles.

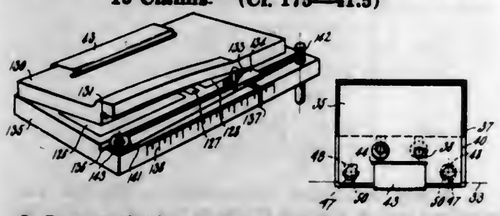
2,589,350
ROTARY CYLINDER HEAT EXCHANGER WITH SCRAPER
Raymond S. Edmunds, Jr., San Antonio, Tex.
Application September 8, 1949, Serial No. 114,511
1 Claim. (Cl. 257—84)



In a heat exchange means comprising a cylinder, a rotor in said cylinder and of lesser diameter to provide a fluid passage between said rotor and said cylinder, said rotor being formed with a series of staggered longitudinally extending slots, each inclined to the radii of said rotor in the direction of rotation thereof and each being divergent in the direction of the open end thereof and having an arcuate closed end, a blade loosely mounted in each slot and extending the full length thereof, the thickness of each blade being substantially equal to the width of the slot at its base and the base of each blade being arcuate conforming to the arcuate closed end of its

associated slot to permit operating thereof under the influence of centrifugal force whereby the blade edge may engage the inner wall of said cylinder to scrape the same when the rotor is activated, and inlet and outlet means for said cylinder, said blade edge comprising a straight side and an inclined side, the inclined side being positioned away from the direction of rotation of said rotor.

2,589,351
VARIABLE CONDENSER
Charles N. Ehrlich, New York, N. Y.
Application February 27, 1947, Serial No. 731,229
15 Claims. (Cl. 175—41.5)

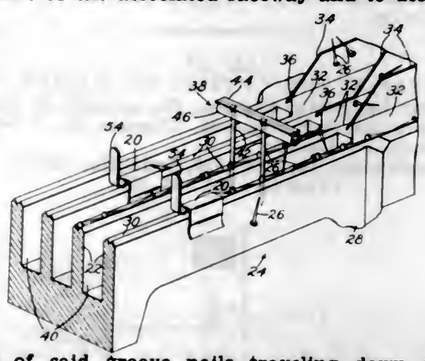


6. In a variable condenser of the type comprising a pair of hingedly interrelated rigid plates having electrically conductive surfaces forming electrodes and means operative to vary the angle between the plates to vary the capacity of the condenser; means controlling shifting of the hinge line relative to said plates, said means comprising facing recesses in the juxtaposed surfaces of said plates and a ball in each facing pair of recesses, at least one recess of each pair intersecting a plate surface in a sharp edge riding on the surface of the ball during hinging movement of said plates, the sharp edges of said recesses being V-shaped in the plane of the surface; and resilient means biasing said plates toward each other substantially at the hinge line and in opposite directions parallel to said surfaces to maintain such sharp edges bearing on said balls to lock the plates against uncontrolled relative sliding movement.

8. In a variable condenser of the type including a pair of hingedly interrelated rigid plates having electrically conductive surfaces forming electrodes and means defining the position of the hinge line relative to the plates; mechanism operative to vary the angle between the plates to vary the capacity of the condenser, said mechanism comprising a cam surface extending longitudinally along the inner surface of one plate; a member slidably mounted on the inner surface of the other plate for movement therealong in longitudinal alignment with said cam surface; and a cam follower secured to said member for engagement with said cam surface; the connection of said cam follower to said member being made by soldering to provide for accurate setting of the initial opening angle of the plates.

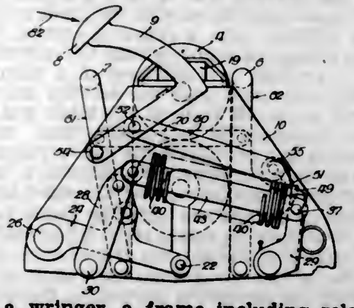
2,589,352
NAIL STOP
Edwin C. Eldred, Jr., Wenham, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Original application December 17, 1948, Serial No. 65,849. Divided and this application August 2, 1950, Serial No. 177,229
3 Claims. (Cl. 1—39)

1. A stop for use in a nail distributor which has raceways each provided with a groove along which nails travel, said stop comprising means for securing it to an associated raceway and having a ramp portion adapted to fit in the groove of the associated raceway and to deflect



out of said groove nails traveling down the groove.

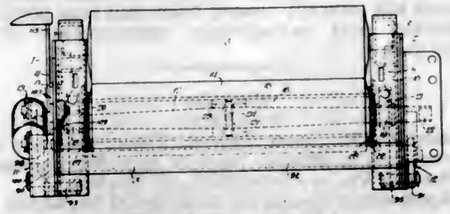
2,589,353
SINGLE MANIPULATIVE PRESSURE ADJUSTER AND AUXILIARY RELEASE FOR WRINGERS
Nicholas L. Etten, Waterloo, Iowa, assignor to Chamberlain Corporation, Waterloo, Iowa, a corporation of Iowa
Application November 23, 1945, Serial No. 630,176
18 Claims. (Cl. 68—263)



1. In a wringer, a frame including relatively wide flat end plates, upper and lower rolls between said plates, and means for urging one of said rolls toward the other roll comprising unitary spring means bodily positioned beyond the ends of said rolls and at one end only of said wringer, and rockable link mechanisms at opposite ends of said wringer on the outer faces of said plates connected with the ends respectively of said one roll to move the latter parallel to said other roll, means interconnecting said link mechanisms to synchronize the movements of said mechanisms, and operative means connected between one of said link mechanisms and said spring means to hold said one roll in operative contact with the other of said rolls whereby the same unitary spring means acts on both ends of said one roll, and releasable safety latch means connected with said spring means to maintain the latter means in operative condition until said latch means is manually actuated.

2,589,354
WRINGER
Nicholas L. Etten, Waterloo, Iowa, assignor to Chamberlain Corporation, Waterloo, Iowa, a corporation of Iowa
Application November 23, 1945, Serial No. 630,178
9 Claims. (Cl. 68—256)

9. In a wringer, a main frame, a first wringer roll, fixed bearings to support said wringer roll, a second wringer roll, support bearings for said second wringer roll, guide means on said frame for said second roll support bearings to allow said latter roll to ride toward or away from said first roll, means interposed between one of said



rolls and its connected bearings to allow said one roll to tilt bodily and independently of its supporting bearings, and shiftable brackets carried upon said guide means and coacting with said tiltable roll to confine the tilting movements of the latter to a predetermined plane of operation.

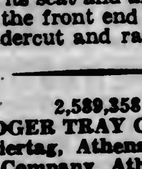
2,589,355
CHAIN COUPLING
Clarence M. Faber, Ithaca, N. Y., assignor to Morse Chain Company, Ithaca, N. Y., a corporation of New York
Application October 27, 1948, Serial No. 56,745
10 Claims. (Cl. 74—254)

1. A flexible chain drive comprising, a chain strand composed of interlaced chain links, a chain coupling pin comprising an elongated body having a head at one end and the opposite end being provided with a relatively small slot, the end of the body member having the slot being provided with a notch arrangement and a chamfered surface, the slotted end portions of the body being adaptable to be inserted into apertures in the interlaced chain links so that the notch portions will engage and cooperate with an outside chain link to lock the pin in operative position.

2,589,356
MATCH BOX WITH SAFETY STOP
Barney J. Fal, Monessen, Pa.
Application June 9, 1949, Serial No. 98,027
2 Claims. (Cl. 229—9)

1. A one-way opening box for safety matches wherein the box must be fully closed to enable the user to properly strike and ignite a match comprising an open ended imperforate cover sleeve, a sliding tray fitted telescopically in said sleeve, exteriorly disposed abrasive means on one end only of said tray, rigid stop means on the opposite end of said tray, said stop means embodying a friction detent releasably engageable with the adjacent end of said sleeve and rendering said box of the stated one-way opening type, and a batch of safety matches in said tray, the heads of all matches being confined in that end of the tray which carries said stop means.

2,589,357
DIAMOND TYPE TOOTH FOR ROTARY STONE CUTTING SAWS
Vincent J. Fantozzi and Leopold H. Metzger, Chicago, Ill., assignors to Super-Cut, Inc., Chicago, Ill., a corporation of Illinois
Application April 13, 1949, Serial No. 87,264
5 Claims. (Cl. 125—15)

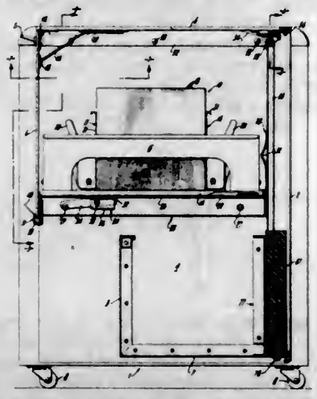


1. As a part of a rotary saw of the type that is adapted to cut stone and embodies a comparatively large flat sided disc-like blade with a substantially rectangular radially extending notch in its outer margin; a tooth comprising a substantially flat metallic body of no greater thickness than the blade, shaped conformably to, and fitting within the notch, arranged so that it is transversely centered with respect to the sides of the blade, having the outer end surface thereof terminating directly adjacent the outer edge of said blade, and having connected to its leading outer corner or edge portion an outwardly extending exposed comparatively short metallic lug which defines with said outer end surface of the body an elongated open top and open sided seat directly outwards of the outer edge of the blade and which is of less dimension from front to back than the seat is long, and an elongated completely solid block-like cutting part consisting of a metallic matrix and crushed or fragmented diamond particles distributed uniformly throughout the entire matrix, fitting in and extending lengthwise of the seat and having the inner portion thereof fitting against and bonded directly to said outer end surface of the body and its front end abutting against the back of the lug, said cutting part being of greater height than the seat is deep in order that its outer portion projects outwards of the outer end of the lug and exposes diamond particles for cutting purposes and being of greater thickness than the lug and the body and arranged so that its side portions project outwards of the sides of said lug and body and expose diamond particles for cutting purposes, said lug being adapted during operation of the saw to absorb shock resulting from contact with the work and tending to dislodge the cutting part from its seat and also to form a barrier for protecting the front end of said cutting part from being undercut and rapidly worn away by sludge.

2,589,358
LEDGER TRAY CABINET
Arthur W. Feiertag, Athens, Ohio, assignor to The McBee Company, Athens, Ohio, a corporation
Application September 20, 1948, Serial No. 50,183
12 Claims. (Cl. 312—290)

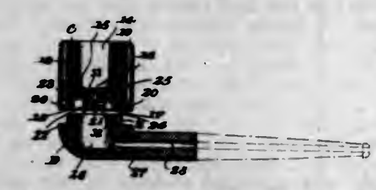
4. In a device of the class described, a cabinet having side walls, means for closing the top and front of the cabinet comprising a lid having lat-

erally extending pivots at the rear thereof, an apron hinged to the front of the lid and foldable against the lid, opposed vertical guides disposed rearwardly on the side walls receiving the pivots enabling the folded apron and lid to be slid downwardly into the cabinet, the pivots being spaced from the plane of the lid a distance sufficient to enable the apron when in folded condition to pass behind the vertical guide when the



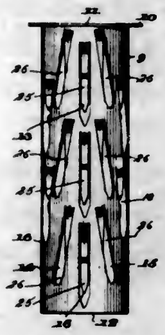
apron and lid are slid downwardly into the cabinet, means for limiting unfolding movement of the apron relative to the lid to approximately 90°, and means on the front of the cabinet engaged by the apron during closing movement thereof and guiding the apron into completely closed position, said pivots being laterally adjustable to permit lateral adjustment of the lid and apron relative to the side walls.

2,589,359
TOBACCO PIPE
Robert O. Ferguson, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va.-Tenn., a corporation of Virginia
Application May 30, 1945, Serial No. 596,613
1 Claim. (Cl. 131—195)



A smoking pipe comprising a pair of bowls, means for securing said bowls together one above the other, the upper bowl forming a tobacco burning chamber and having a bottom formed with an opening therein, a removable extension, said extension having a base portion and a flange portion, said bottom of said upper bowl having a circular recess in its undersurface with which said opening communicates, means to detachably connect said extension to said upper bowl in said recess whereby said base portion is flush with the undersurface of the upper bowl bottom, said upper bowl having sides which extend beyond the bottom of said recess of the upper bowl and defining the wall of said recess, said extension being entirely supported by the upper bowl and having a passageway communicating with said opening and a pair of intersecting horizontal passageways provided with four exits communicating with said first named passageway and said circular recess, all of said passageways being above the lower limit of said upper bowl and within the confines of the boundary of said upper bowl, a well for supporting filtering material in said lower bowl, said lower bowl having a circular flange protruding upwardly into said circular recess but laterally spaced from said base portion whereby said passageways communicate with said well.

2,589,360
RATTRAP
Robert O. Ferguson, Bristol, Tenn., assignor of one-half to Bristol Steel & Iron Works, Inc., Bristol, Va., a corporation of Virginia
Application August 31, 1948, Serial No. 46,949
1 Claim. (Cl. 43—65)

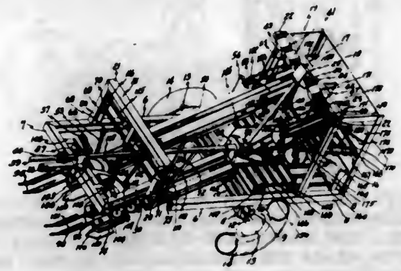


An entrance tube for an animal trap having an open entrance end and an open exit end in the trap, comprising a plurality of resilient prongs, said prongs projecting toward said exit end, only certain of said prongs having sharpened ends and means on said certain prongs removed from said sharpened ends and adapted for engagement by the back of an animal entering said tube whereby said sharpened ends will be held from engaging and will be moved upwardly by said animal during the time it is entering the tube and until the animal has passed the exit end of the tube, the topmost prongs being arranged in a row longitudinally of said tube and the prongs on each side of said row extending at an angle from the longitudinal axis of the tube, each of said prongs being formed by removed portions of said tube, all of said prongs projecting downwardly toward but not as far as the longitudinal center of the tube, said means on said certain prongs comprising a U-bend with the base of the U-bend extending into the tube, and said base being rounded, said U-bend being positioned substantially half way between said sharpened end and the point of attachment of said certain prongs to said tube.

2,589,361
BEET HARVESTER
Edward J. Floeter and Ervin V. Waack, Saginaw, Mich.; Adalene E. Floeter administratrix of said Edward J. Floeter, deceased
Application March 12, 1948, Serial No. 14,782
15 Claims. (Cl. 55—106)

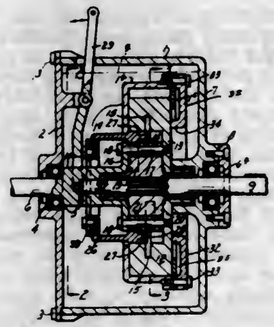
1. In a harvesting machine for root crop plants, a wheeled frame adapted to be connected in draft relationship with a tractor vehicle, lifter means on the forward end of the frame for partially unearthing the roots of said root plants, guide fingers on the frame, a pair of flexible endless conveyor elements operatively associated with said frame for frictionally engaging the foliage of said plants to elevate the same and convey

them rearwardly and upwardly, disk shaped driven cutter knives formed with upwardly and outwardly flared rim sections in the conveyor pathway for removing the foliage from said root crop plants, a conveyor for conveying the roots



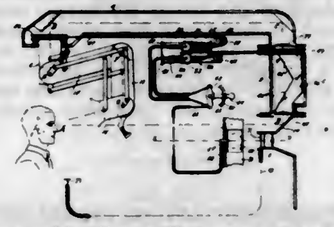
of said crops to one side of the wheeled frame, and means for conveying the foliage rearwardly on said frame, said flexible endless conveyor elements being arranged in a common plane with their adjacent coacting flight runs in mutual contactual engagement.

2,589,362
HYDRAULIC COUPLING FOR USE BETWEEN A DRIVING AND A DRIVEN ELEMENT
Howard L. Foster, Detroit, Mich.
Application October 30, 1947, Serial No. 783,118
4 Claims. (Cl. 60—53)



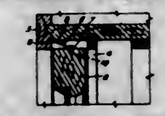
4. A coupling for use between rotatable drive and driven shafts, a rotary impeller fixed to said drive shaft, a housing for said impeller joined to said driven shaft, a second rotary impeller fixed to said driven shaft, said housing having longitudinally spaced fluid inlet and discharge openings, a chambered member containing a fluid in which said impellers are submerged, a manually operable control element of cylindrical form and including an annular flange movable upon the outer surface of said housing for registry with said discharge openings, said flange having interconnected grooves in its inner and its outer surfaces adjacent the end thereof in concentric relation, the position of the grooves relative to said discharge openings determining the volume of fluid transferred from the first to the second impeller per revolution of said first impeller, and a lever pivotally mounted on said chambered member and joined to said control element for adjustably sliding the same upon said housing.

2,589,363
SELF-POSING DEVICE WITH ADJUSTABLE PERISCOPIC VIEW FINDER
Jean Theodore Foufounis, Paris, France
Application October 1, 1947, Serial No. 777,143
In France October 4, 1946
7 Claims. (Cl. 88—74)



1. In combination with a camera, a self-posing device comprising a finder the optical axis of which is close to and parallel with the optical axis of the camera, a rotatable periscopic structure having a vertical axis of rotation intersecting the optical axis of said camera, an eye-piece suspended from said rotatable periscopic structure and having its optical axis intersecting said vertical axis substantially at the point of intersection of said vertical axis with the optical axis of said camera; fixed reflecting surfaces directing the light rays from said finder to said vertical axis; movable light reflecting surfaces carried by and bodily rotatable with said periscopic structure, said movable reflecting surfaces transmitting through said periscopic structure the light rays from said vertical axis into said eye-piece in all angular positions of said periscopic structure; light refracting means disposed in the path of the light rays and forming with said finder and said eye-piece a panoramic telescope; rotatable auxiliary image erecting optical means inserted in the path of the light rays through said fixed reflecting surfaces; means for rotating said rotatable auxiliary optical means in response to a rotation of said rotatable periscopic structure and to cause said rotatable auxiliary optical means to correct at least partially the inclination of the image given by said panoramic telescope; and control means for altering the rotation of said auxiliary optical means relatively to said periscopic structure so as to retain an inclination of the image given by the self-posing device.

2,589,364
SELF-TIGHTENING WEATHERSTRIP
Cyril Howard Fry, Windsor, Ontario, Canada
Application June 4, 1947, Serial No. 752,487
In Canada July 10, 1946
1 Claim. (Cl. 20—69)



In window construction, the combination with a window frame and a sash therefor, said sash and frame each having complementary edge and side surfaces, said sash being slidable in the frame to place said edge surfaces in juxtaposition to close the window and to place said edge surfaces in spaced relation to open the window, of means for sealing the joint between said surfaces in the closed position of the window comprising a thin metal strip coextensive with said edge surface of the sash and having one lateral edge portion engaging and fixed to said sash edge

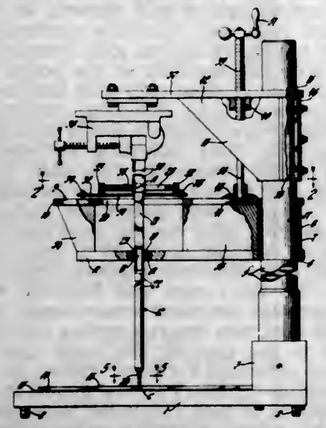
surface, the remaining and major portion of said strip being outwardly offset from and thereby lying in spaced relation to said sash edge surface and having a free edge, said free edge lying in the plane substantially coincident with the plane of the adjacent side surface of the sash, said offset portion of the strip being engaged by the edge surface of the frame on closing movement of the sash to compress the offset portion between said edge surfaces and to project said free edge in a direction away from said fixed edge portion, said side surfaces of the frame being engaged by said projected free edge substantially throughout its length.

2,589,365

CONTOUR DESCRIBING INSTRUMENT

Arthur W. Gaubatz, Indianapolis, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application December 1, 1947, Serial No. 788,984
8 Claims. (Cl. 33—24)



4. A device of the class described, comprising two vertically spaced parallel surfaces, a bearing positioned between the surfaces, an elongated member fulcrumed in said bearing, a plate slidably resting on the upper surface, a gimbal ring pivotally interconnecting said member and plate, a tracing instrument carried by the gimbal ring, and a marking instrument resting on the lower surface and connected to said member below the bearing.

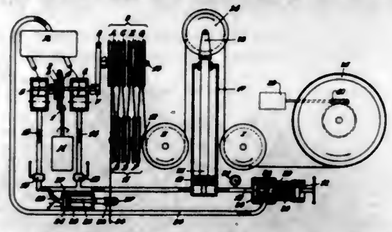
2,589,366

MACHINE FOR HOOPING TUBES

René Gauthier, Brussels, Belgium, assignor to Societe Continentale et Coloniale de Construction, Societe Anonyme, Brussels, Belgium

Application March 29, 1946, Serial No. 658,239
In Belgium May 16, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 16, 1961
3 Claims. (Cl. 242—11)

1. A machine for hooping tubes comprising, in combination with a device actuated by motor for driving in rotation the tube to be hooped, a train of grooved pulleys to drive the hooping wire for unwinding, a train of grooved loose pulleys to guide said wire on the driving pulleys, a motor, a differential mechanism actuated by said motor, two shafts to be driven each by one of the planets of said differential, a transmission to connect one of said shafts to the train of driving pulleys, two pumps to be driven each by one of the differential shafts, valves for controlling the output of each of said pumps, a hydraulic piston and cylinder unit fed by said pumps, said unit including a surface adapted to act by tension on the hooping wire extending between the driving



pulleys and the tube to be hooped, means for automatically controlling the hydraulic pressure in said unit and means controlled by said pressure to retard the unwinding of the wire before its passage on the driving pulleys.

2,589,367

GARMENT CONSTRUCTION

Aaron A. Goldstein, Philadelphia, Pa., assignor to Coat Craft Company, Philadelphia, Pa., a corporation of Pennsylvania

Application October 7, 1948, Serial No. 53,170
1 Claim. (Cl. 2—93)



In a garment construction of the character described, an outer main body member having a portion turned back against itself to provide the same with an inwardly turned hem along its bottom edge, a main lining for said body member having a freely extending lower edge, and an auxiliary lining strip folded upon itself and disposed between said inwardly turned hem of the main body member and said main lining to overlie the exposed face of said inturned hem, one edge of said folded lining strip being secured to said main body member by a permanent line of stitching spaced above the inner edge of said inturned hem and the opposite edge thereof being permanently secured to said inner edge of said hem to thereby dispose the permanently secured-together edges of said hem and lining strip between said main body member and said lining strip, and a readily removable line of stitching arranged at an elevation above the free lower edge of said main lining and below said permanent line of stitching for quick-detachably securing said secured-together edges of the hem and lining strip to said main body member.

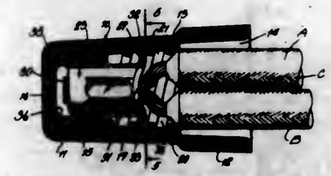
2,589,368

PIGTAIL ELECTRIC CONNECTOR

Maxwell A. Graham and Charles H. Thompson, Fanwood, N. J., assignors to The Thomas & Betts Co., Elizabeth, N. J., a corporation of New Jersey

Application June 20, 1947, Serial No. 755,916
9 Claims. (Cl. 174—87)

1. In a pigtail splicer, the combination of a plurality of conductors having bared ends, a metallic splicer sleeve formed of thin sheet metal and a portion of which is of tubular form and into the bore of which the bared ends of the conductors intrude, said splicer sleeve being crimped onto the intruded conductor ends to secure the conductors permanently to the splicer sleeve, an insulator cap having a tapered bore into which the crimped splicer sleeve with its associated conductor ends are intruded, the wall outlining the tapered bore provided with threads and said



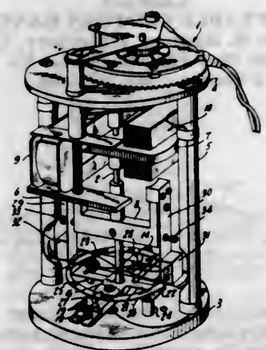
splicer sleeve provided at one end thereof with a pair of oppositely projecting outstanding lobes at all times disposed in a common transverse plane and extending perpendicular to the axis of the bore and said lobes being in threaded engagement with the threads of the cap and angularly disposed relative thereto.

2,589,369

ADJUSTING ARRANGEMENT

Carl-Erik Granquist, Lidingo, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo (near Stockholm), Sweden, a corporation of Sweden

Application July 14, 1948, Serial No. 38,701
In Sweden September 5, 1947
3 Claims. (Cl. 318—325)



1. A device of the class described comprising a rotatable vertical shaft, a bracket carried by said shaft, a pair of pendulus members depending from the ends of said bracket and adapted to swing outwardly due to centrifugal force as the shaft is rotated, a flexible ring disposed beneath the path of travel of said members, said ring being of magnetic material and one of said members constituting a permanent magnet and being disposed to magnetically attract and flex said ring as it passes thereover in its path of movement, said magnet being mounted to swing out of the zone of attraction for said ring by centrifugal force as the shaft is rotated, and contacts actuated by the flexing of said ring.

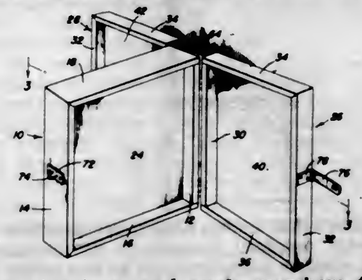
2,589,370

WALL MOUNTED TOOLBOX

Alfred E. Grennan, Benton, Kans.

Application November 3, 1947, Serial No. 783,713
2 Claims. (Cl. 312—248)

2. A tool box comprising an open substantially rectangular main frame including a pair of end members and a pair of side members, a pair of open substantially rectangular end frames, a pair of elongated base plates secured to one end member of said main frame adjacent to said side members, said base plates having terminal knuckles, an upper and lower pair of plates secured to each of said end frames and having knuckles registering with the knuckles of said base plates, means pivotally securing the knuckles of said base plates to the knuckles of said upper and lower pair of plates, a sleeve fixed to the central portion of each of said base plates, a pair of anchor plates detachably secured to a sup-



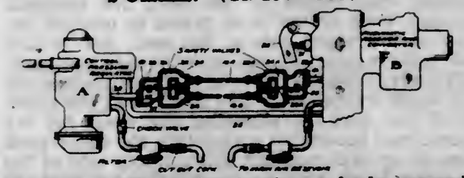
porting structure, and angle members fixed to said anchor plate and including upstanding leg portions received in said sleeves, said box being rotatable on said angle members, said angle members having horizontal leg portions bearing against said sleeves and preventing downward movement of said box relative to said angle members, and said upstanding leg portions being spaced horizontally from said anchor plates a distance substantially equal to the width of one of said end frames and one-half the width of the main frame.

2,589,371

PROTECTIVE DEVICE FOR REMOTE-CONTROL SYSTEMS

Joseph F. Griffin, Hammond, Ind., assignor, by mesne assignments, to American Throttle Company, Inc., New York, N. Y.

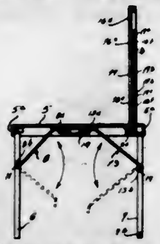
Application May 10, 1947, Serial No. 747,337
2 Claims. (Cl. 137—153)



1. A protective valve having a body comprising a pair of pressure chambers separated by a transverse dividing wall formed with a slot-shaped port placing the chambers in communication with each other; a conduit connected to one of said chambers for admitting pressure fluid thereto or receiving it therefrom; a flexible, pressure deformable diaphragm extending through said slot-shaped port between opposite sides thereof and projecting from said dividing wall across the other of said chambers so as to divide it into two separate sections; a pair of conduits each connected to one section of said other chamber at opposite sides of said diaphragm; and means securing said diaphragm to said body at opposite sides of said dividing wall so that when the diaphragm is subjected to unequal pressures on its opposite sides it contacts one or the other side of said slot-shaped port to cut off communication between said first chamber and that section of said other chamber in which the lower pressure exists, whereby when leakage oc-

curs from one or the other of said pair of conduits communication between the related section of said second chamber and said first chamber is cut off.

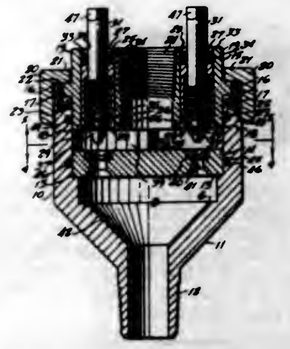
2,589,372
FOLDING CHAIR
Emil C. Hake, St. Louis, Mo.
Application December 20, 1950, Serial No. 201,727
1 Claim. (Cl. 155—148)



A foldable chair comprising a rectangular seat formed with pendant flanges at its margins to provide a shallow compartment at the under side thereof, frontal and rear leg units pivotally connected with the seat at front and back and arranged to fold up inwardly together within the said compartment at the under side of the seat, brace frames pivotally connected to the frontal and rear leg units in spaced relation to the upper ends thereof and arranged to swing and fold inwardly at their free ends into the said compartment at the under side of the seat, means at the under side of the seat within the said compartment thereat for releasably locking the said brace frames to the seat for rigidly supporting the leg units in open position relative to the seat, for the purpose of adapting the chair to use, a chair-back frame pivotally connected at its lower side with the seat at the rear margin thereof, the said frame comprising a back-bar in the form of an inverted U for providing side and top bars, the side bars being pivotally connected at their lower free ends with the rear margin of the seat through recesses formed through the ends of the pendant rear flange of the seat, for enabling the chair-back frame to be raised to upright position at the upper side of the seat, and to fold down underneath the seat into the said compartment thereat, means for releasably supporting the chair-back frame in upright position at the upper side of the seat for adapting the chair for use as such, said means for supporting the chair-back frame in upright position at the upper side of the seat comprising cross members extended between the side bars of the chair-back frame, slide-loops mounted in both transverse and vertical alignment upon the outer sides of the cross members, and a latch-frame including spaced slats passed slidably through the slide-loops for perpendicular extension from the chair seat, cross slats anchored to the first mentioned slats for locking the unit together, and keeper slots cut through the rear margin of the chair seat for receiving the lower ends of the slats of the latch-frame as passed through the said slide-loops, for releasably locking the latch-frame in upright position for use, when so desired.

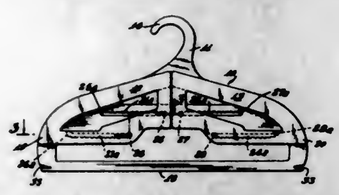
2,589,373
ADJUSTABLE CHOKE FOR OIL WELLS
Walter Eugene Hammock, Garland, Tex.
Application April 21, 1947, Serial No. 742,935
3 Claims. (Cl. 277—57)

2. In a flow control device for oil wells, in combination with a tubular body having a flow passage therethrough and having a threaded reduced portion for coupling the same to an oil line, a valve unit comprising a head having a threaded bore therethrough coaxial with said reduced portion, the said head having a peripheral flange engageable with the rim of said body



opposite said reduced portion and adapted to support said head thereon, a disk having a plurality of different size ports therein, each having a seat, connected to and spaced from said head by a plurality of dowels, a closure for each of said ports and an internally threaded flanged collar for securing said head in said body.

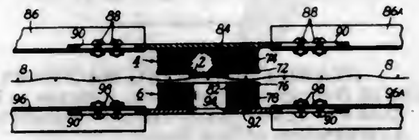
2,589,374
ADJUSTABLE CLOTHES HANGER
Thomas H. Hannon, Waterbury, Conn.
Application May 17, 1951, Serial No. 226,779
6 Claims. (Cl. 223—89)



1. In an adjustable clothes hanger, the combination comprising a flat hanger body having a central upwardly extending hook portion, outwardly and downwardly opposed shoulder portions integral with the lower end of said hook, and a central guide portion integrally formed with and horizontally disposed between said opposed shoulder portions, said guide portion being provided with an upper pair of horizontal aligned slots and a lower pair of horizontal aligned slots; slidable complementary right and left flat shoulder members, each having an outer edge conforming generally in shape with said outwardly and downwardly extending shoulder portions, and means passing through said slots to slidably retain said shoulder members against said opposite shoulder portions of said hanger body, whereby said shoulder members may be extended to accommodate clothing of different sizes.

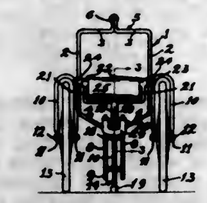
2,589,375
ULTRASONIC GENERATOR
Eliot Huntington Harris, New York, N. Y.
Application September 28, 1949, Serial No. 118,323
12 Claims. (Cl. 177—7)

1. In apparatus for generating ultrasonic vibrations, a translating device comprising a supporting frame, a piston of magnetic material, a sheet of resilient non-magnetic material supported by said frame, said piston being secured to and supported by said sheet for free transverse movement therewith, a first and second coil with axial opening for egress of the ultrasonic vibrations supported by said frame on opposite



sides of said piston for vibrating said piston and positioned so that the axes of said coils pass through said piston, and a source of first and second periodic out-of-phase currents connected to said coils for causing said piston to move alternately toward said first and second coils thereby to generate ultrasonic vibrations.

2,589,376
WHEELED CARRIER FOR OUTBOARD MOTORS
Carl L. Harmsen, Spokane, Wash.
Application July 5, 1949, Serial No. 103,009
1 Claim. (Cl. 280—53)



An outboard motor carriage comprising a frame formed of tubing bent to form side bars and upper and lower arms extending inwardly from the side bars, the upper arms meeting midway the width of the frame to form an upper cross bar and being bent to form a handle extending rearwardly from the frame, the lower arms extending towards each other and then downwardly to form legs spaced transversely from each other and connected at their lower ends by a forwardly projecting foot, forks of inverted U-shape mounted against outer side portions of the side bars and projecting downwardly therefrom, ground-engaging wheels rotatably mounted in said forks and mounting the frame for vertical tilting movement to angularly adjusted positions, a suspension bar extending transversely of said frame and having its ends rigidly connected with the side bars of the frame, a sleeve loose about said suspension bar, said sleeve being oval in cross section and extending downwardly from the bar and constituting a member disposed in position to support an outboard motor upright in front of the frame with the lower portion of the motor directly in front of the legs, a U-shaped bracket carried by and projecting forwardly from the legs for engaging the lower portion of the motor and preventing movement thereof transversely of the legs from a position over said foot, a yoke straddling said sleeve and having upwardly extending arms loosely mounted about the suspension bar, a longitudinally adjustable prop extending downwardly from the yoke midway the width thereof.

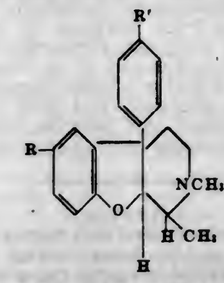
2,589,377
HYDROXYPHENYL-CINNAMIC NITRILES AND PROCESS
Hans Henecka, Wuppertal-Elberfeld, Germany, assignor to Schenley Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 17, 1949, Serial No. 128,015. In Germany October 5, 1948
9 Claims. (Cl. 260—465)

1. As new compounds β-hydroxyphenyl-cinnamic nitriles of the group consisting of beta-ortho - hydroxyphenyl - cinnamic nitrile, beta-ortho-hydroxy-para-tolyl-cinnamic nitrile and beta - ortho - hydroxy - para - tolyl - para-prime-methyl-cinnamic nitrile.

5. A process of producing β-hydroxyphenyl-cinnamic nitriles which comprises reacting a β - methoxymethyloxy - phenyl - beta - phenyl-hydracrylic nitrile with a dilute aqueous solution of a common mineral acid and while dissolved in a water-miscible, acidic, liquid organic solvent medium, under conditions favoring hydrolysis, whereby the methoxymethyloxy substituent is converted to a hydroxyl substituent.

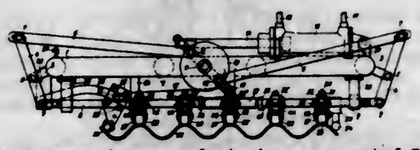
2,589,378
PHENYL-PIPERIDINO-COUMARANS
Hans Henecka, Wuppertal-Elberfeld, Germany, assignor to Schenley Laboratories, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 17, 1949, Serial No. 128,016. In Germany October 5, 1948
8 Claims. (Cl. 260—294.7)

5. A chemical compound represented by the formula:



wherein R and R' are substituents chosen from the group consisting of hydrogen and methyl.

2,589,379
PROCESS AND DEVICE FOR THE MANUFACTURE OF CORRUGATED SHEETS OF ASBESTOS CEMENT
Carl Herzog, Niederurnen, Switzerland, assignor to Eternit A.-G., Niederurnen, Glarus, Switzerland
Application February 4, 1949, Serial No. 74,684
In Switzerland February 6, 1948
7 Claims. (Cl. 154—30)



5. A device for manufacturing corrugated fibrocement sheets comprising a frame, a plurality of spaced parallel channel-shaped members providing suction chambers, means for mounting said channel-shaped members on said frame, means for producing a suction in said chambers whereby

a plane fibro-cement sheet, when still moldable is adapted to adhere to said channel-shaped members along spaced narrow parallel zones, and a mechanism for adjusting said channel-shaped members on said frame parallel with respect to each other to reduce the distance between said parallel channel-shaped members, whereby said plane fibro-cement sheet adhering to said channel-shaped members due to the suction produced in the same is provided with corrugations, said mounting means including axially alined pairs of rods longitudinally and oppositely slidably mounted in said frame, means for slidably mounting some of said channel-shaped members on said rods and means for mounting other ones of said channel-shaped members fixedly on said rods, said mechanism being operatively connected with said pairs of rods and including means for moving said pairs of rods longitudinally and oppositely with respect to each other.

2,589,380

PROCESS FOR SEPARATING NORMAL ALIPHATIC HYDROCARBONS FROM ORGANIC MIXTURES THEREOF

Howard V. Hess, Beacon, George B. Arnold, Glenham, and James K. Truitt, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application November 16, 1949, Serial No. 127,788
10 Claims. (Cl. 260—676)

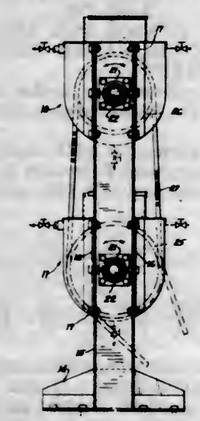
1. A process for isolating a compound selected from the group consisting of normal aliphatic hydrocarbons and alpha-substituted normal aliphatic hydrocarbons containing at least six carbon atoms from mixtures of organic compounds, which comprises contacting said mixture with 4,4'-dinitrodiphenyl at a temperature less than 160° F., whereby a solid complex consisting of 4,4'-dinitrodiphenyl and said compound is formed, separating said complex from said mixture and recovering said compound from said complex.

2,589,381

MACHINE FOR WHIPPING CANDY BATCHES

John Higgins and Nicholas Fiorella, Chicago, Ill., assignors to Illini Whipper Co., a copartnership consisting of John Higgins and Nicholas Fiorella, Chicago, Ill.

Application December 24, 1949, Serial No. 134,962
2 Claims. (Cl. 259—109)



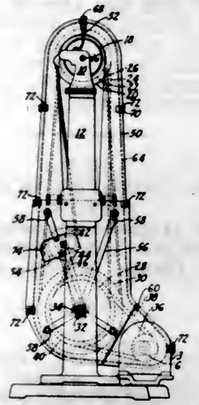
1. A batch whipper for the purpose described, comprising a receptacle, a beater shaft journaled in the walls of the receptacle for rotation relatively thereto, and a plurality of beaters secured to said shaft, each said beater comprising a rod of U-form having parallel legs secured at their ends to the shaft and defining an open-centered structure, a removable cover for said receptacle, and a plurality of fixed batch-breaking members each positioned intermediate adjacent beaters and suspended from said cover.

2,589,382

GUARD FOR SEWING MACHINES

Otis M. Holmes, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application December 3, 1949, Serial No. 130,903
5 Claims. (Cl. 112—261)



1. A shoe sewing machine having a main sewing shaft, a clutch on the sewing shaft comprising a driven pulley, a supporting column in the upper portion of which the sewing shaft is rotatably mounted, a stud shaft disposed in the lower portion of the column in parallel relation to the main shaft, driving and driven pulleys on the stud shaft, a belt connecting the driven pulley of the clutch with the driven pulley on the stud shaft, a tightener pulley acting on the belt between the two driven pulleys, a belt tightener arm rotatable at one end on the stud shaft and a tightener pulley supporting pin on the other end of the arm, in combination with a guard plate for the pulleys and belt mounted at its lower end on the stud shaft with the tightener arm in front and formed with an opening through which the tightener pulley supporting pin projects to support the tightener pulley behind the guard plate.

2,589,383

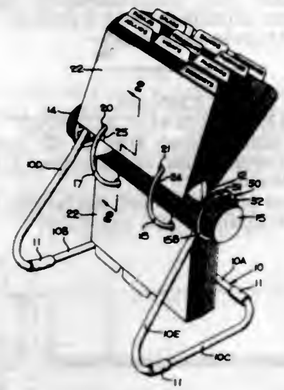
FILING APPARATUS

Raymond B. Holt, Alhambra, Calif.

Application August 10, 1950, Serial No. 178,600
6 Claims. (Cl. 129—16)

5. Filing apparatus of the character described, comprising, a standard having a resiliently supported bearing member, a crank member rotatably supported on said standard and in said bearing member, a one-way clutch mounted on said crank member, means mounting one element of said clutch stationary with respect to said standard, an abutment mounted on said crank, and said resilient bearing member pressing the clutch elements into cooperating engagement and against said abutment, and means for rotating the other one of said clutch elements,

said crank member having a plurality of spaced card supporting rings coaxially mounted with respect to the axis of rotation of said crank with



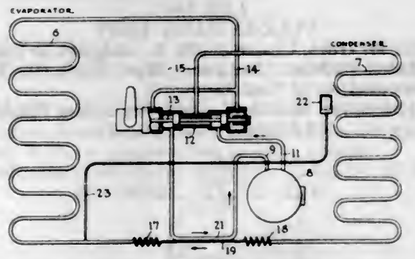
said crank being arranged to contact a card along a line extending generally parallel with the axis of rotation.

2,589,384

REVERSIBLE HEAT PUMP CYCLE WITH MEANS FOR ADJUSTING THE EFFECTIVE CHARGE

Neil E. Hopkins, York, Pa., assignor to York Corporation, York, Pa., a corporation of Delaware

Application March 16, 1951, Serial No. 215,905
7 Claims. (Cl. 62—115)



1. A reversible heat-pump circuit comprising a first surface heat-exchanger capable of operating selectively as an evaporator or as a condenser; a second surface heat-exchanger capable of operating selectively as a condenser or as an evaporator; a long-path flow restrictor affording a reversible liquid-flow connection between said heat-exchangers; compressing means interposed between said exchangers and completing said circuit, said compressing means including reversing means whereby the compressing means may be caused to draw refrigerant from either of said heat exchangers while delivering it at a higher pressure to the other heat exchanger, the thermal characteristics of the circuit being such that one of said directions requires for efficient operation a larger effective charge and the other a smaller effective charge of refrigerant in the circuit; refrigerant in said circuit in quantity corresponding to said larger charge; a receptacle whose volume equals the difference between the liquid-phase volumes of said charges, said receptacle being so located as to be subject to the temperature of that heat exchanger which functions as a condenser when the larger effective charge is needed; and a two-way flow connection between said receptacle and the circuit.

2,589,385

ANIMAL TRAP

Harold C. Howrey, Estacada, Oreg.

Application June 15, 1949, Serial No. 99,537
1 Claim. (Cl. 43—80)



An animal trap comprising a tubular member including means for supporting said member in an upright position, a plate carrying a series of depending tines and slidably mounted on said tubular member, spring means biasing said plate downwardly on said member, a plunger freely slidable within said tubular member, said plunger having an elongated diametrical slot, said tubular member having diametrical slots corresponding to said plunger slot, a pair of trigger elements mounted in said aligned slots and in relative rocking engagement to enable separation of their respective ends, means anchoring said trigger elements to said tubular member against longitudinal movement but permitting said rocking movement, trigger portions projecting laterally from said trigger elements to nest within said tubular member when the lower ends of said trigger elements are separated and to extend beyond the periphery of said tubular member for holding said plate against said spring means when the upper ends of said trigger elements are separated, wedges in the ends of said plunger slot for respectively separating the respective ends of said trigger elements, and a trigger shoe at the lower end of said plunger for lifting said plunger to separate the lower ends of said trigger elements and nest said trigger portions within the tubular member to release said plate.

2,589,386

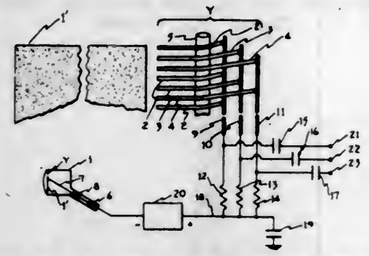
PICKUP DEVICE FOR COLOR TELEVISION

Charles E. Huffman, Upper Montclair, N. J., assignor to Allen B. Dumont Laboratories, Inc., Passaic, N. J., a corporation of Delaware

Application December 2, 1947, Serial No. 789,297
3 Claims. (Cl. 315—10)

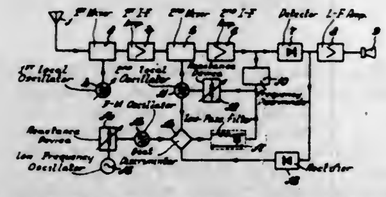
1. An electron tube containing a photosensitive screen, a structure comprising a plurality of conducting elements positioned adjacent said screen, electrically insulated therefrom and substantially in a common plane therewith, and means to produce an electron beam and means to deflect and scan said beam successively over said screen and

said structure, said structure comprising a plurality of groups of conductors having the con-



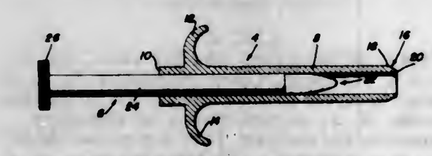
ductors of each group connected to a lead which is common only to that group.

2,589,387
DEVICE FOR AUTOMATIC FREQUENCY-CORRECTION
Eduard Herman Hugenholtz, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 2, 1947, Serial No. 789,202
In the Netherlands December 5, 1946
9 Claims. (Cl. 250—20)



9. Apparatus for automatic-frequency-correction with respect to a master wave comprising a controllable frequency oscillator, a wave generating circuit producing a spectrum of harmonically related frequency components, means coupled to said oscillator to control automatically the frequency thereof in accordance with the frequency difference between said master wave and said oscillator, and means responsive to cessation of said master wave and coupled to said oscillator and said spectrum generating circuit to control automatically the frequency of said oscillator in accordance with the frequency difference between said oscillator at the instant of said cessation and the nearest component of said spectrum.

2,589,388
SUPPOSITORY INJECTOR
Cora H. Hunter, San Diego, Calif.
Application March 12, 1951, Serial No. 215,038
1 Claim. (Cl. 128—264)



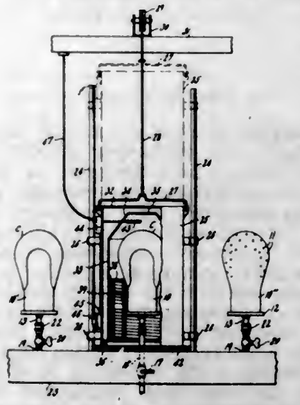
A suppository holder and injector of the class described comprising a barrel having a cylindrical smooth bore from end to end, said bore being adapted for slidable reception of a correspondingly smooth surfaced plunger, the exterior surface of said barrel being smooth, said barrel being provided adjacent one end with finger grips, the opposite leading end of said barrel being thinned in thickness and defining a taper, said taper being formed with an annular groove, said groove defining a lubricant receiving and containing pocket and simultaneously defining a relatively thin piloting lip, and a plunger mounted for reciprocation in said bore.

2,589,389
YARN PACKAGE SUPPORT
Thomas M. Hurst, Rock Hill, S. C., assignor to Celanese Corporation of America, a corporation of Delaware
Application March 4, 1948, Serial No. 13,031
4 Claims. (Cl. 242—120)



1. A yarn package support comprising, in combination, a barrel having an internal groove therein and a flange at at least one end of said barrel, a bushing fixed to said flange and adapted to be received within said barrel, said bushing having a circumferential groove therein and a slot communicating with said groove, and a flexible retaining ring adapted to cooperate with said grooves, the construction and arrangement being such that the said retaining ring detachably secures the bushing and flange to said barrel.

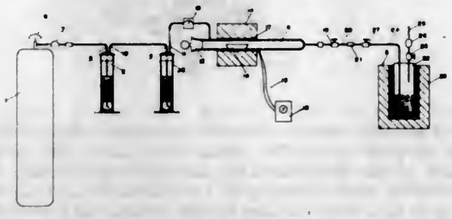
2,589,390
VULCANIZING UNIT
Victor H. Hurt, Cranston, R. I., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application March 21, 1947, Serial No. 736,227
3 Claims. (Cl. 18—6)



1. A vulcanizing unit, comprising a rounded form for supporting and shaping a sheet rubber article, means for supporting the form while the article thereon is being vulcanized, a vulcanizing casing adapted to house the form, an electrical source of radiant heat mounted in one portion of the casing, a hollow reflector mounted in the casing and having an angularly disposed reflector portion positioned in another part of the casing from that of the source of radiant heat, and means for supporting the casing for movement into and out of housing relation with the form and so that when the casing houses the form one

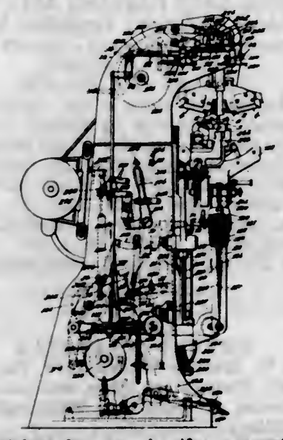
portion of the rubber article can be heated by the direct radiant heat from said source while another portion of the article is heated by the radiant heat produced by said source but reflected against the article by the reflector.

2,589,391
BORON CHLORIDE PRODUCTION FROM AN ALLOY OF BORON WITH TANTALUM
Clyde A. Hutchison, Jr., and James S. Smith, New York, N. Y., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application August 28, 1945, Serial No. 613,159
3 Claims. (Cl. 23—87)



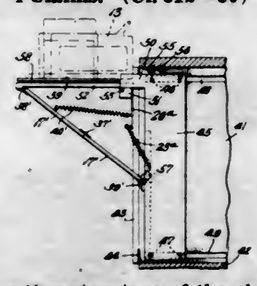
1. A method for recovering the boron from an alloy of boron with tantalum which comprises treating the alloy with chlorine at a temperature between 575° C. and 900° C., condensing the resulting tantalum chloride and maintaining the resulting boron chlorine in a gaseous phase to produce a polyphase system, separating said gaseous phase containing boron chloride from said polyphase system and isolating boron chloride from said separated phase.

2,589,392
MACHINE FOR USE IN THE MANUFACTURE OF SHOES
Herman A. Imhof, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 30, 1948, Serial No. 51,901
24 Claims. (Cl. 12—10.3)



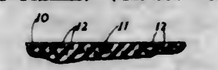
2. A machine for use in the manufacture of shoes having a main frame, a shoe supporting jack movable on the frame, devices for performing an operation successively along a shoe supported on the jack and mechanisms for moving the jack relatively to the operating devices to transfer the point of operation along the shoe and to present the shoe properly to the operating devices as the point of operation is transferred along the shoe, in combination with means acting to lock the jack against movement transverse to the length of a shoe on the jack during each successive operation of said devices and to unlock the jack for continued movement relative to the operating devices after each operation is completed.

2,589,393
SUPPORTING MEANS FOR ARTICLES SUCH AS TYPEWRITERS AND SEWING MACHINES
Charles C. James, Los Angeles, Calif.
Application April 18, 1945, Serial No. 589,077
4 Claims. (Cl. 312—30)



1. A supporting structure of the class described comprising a shelf, a support having a surface on which the shelf normally rests, means located closer to the front than the rear of said shelf fulcruming said shelf on said support adjacent said surface for swinging said shelf from said normal position to a lowered position, links pivoted to said shelf and to said support in diagonal relation thereto, means hinging said links together so as to normally maintain their adjacent ends in alignment and necessitate movement away from the support to break the joint, a batten extending angularly from the shelf on the side of the fulcrum opposite to said links and spring means attached at opposite ends to the batten and to one of the links for tensioning through the swinging of the support to lowered position so that the tensioned spring will assist in returning the support to normal position.

2,589,394
FLEXIBLE METAL COMPOUNDS
Joseph F. Joy, Pittsburgh, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 15, 1946, Serial No. 677,064
3 Claims. (Cl. 260—3.3)



1. A flexible compound having relatively high thermal conducting properties comprising a vulcanized rubber body, finely divided metallic particles intimately dispersed throughout said body, and a film of a vulcanized chlorinated rubber base cement coating said particles and firmly bonding them to said body, said particles cumulatively constituting a preponderant portion by weight of said compound.

2,589,395
POSITIVE CUTOUT SWITCH
Louis E. Kanard, Russell, Kans.
Application April 13, 1949, Serial No. 87,233
1 Claim. (Cl. 200—169)

In a trip actuated switch, a horizontally disposed mount, a vertically disposed plate adjacent

said mount, a horizontally disposed tubular casing carried by the mount adjacent and extending perpendicularly with relation to the plate, plugs entering opposite ends of the casing, said plugs having aligned bores extending axially therethrough, a body of insulating material within the casing and engaging the plug remote from the plate, a ground post carried by the body of insulating material and extending through the bore of the adjacent plug, a contact plate on the ground post within the casing, a plunger extending through the bore of the plug adjacent the plate, said plunger being movable longitudinally through said bore, a flange carried by the plunger within the casing, an annular row of teeth carried by the plunger and projecting longitudinally therefrom



toward the contact plate, a compression coiled spring encircling the plunger within the casing, said spring bearing on the plug adjacent the plate and on the flange to yieldingly urge the teeth on the plunger into impaling engagement with the contact plate, a trigger pivotally coupled to the plunger and extending longitudinally therefrom beneath the plate, said trigger having an upwardly extending keeper adpacent the end thereof remote from the plunger for engaging the plate and holding the plunger retracted from the contact plate against the effort of the spring, and a retractile coiled spring connected to the trigger and to the plate for urging the trigger upwardly and yieldingly urging the keeper up and in engagement with the plate.

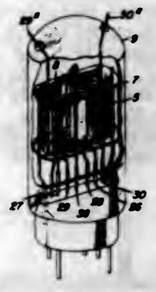
2,589,396
DESK PAD HOLDER
Robert George Kensel, Barrington, Ill.
Application August 15, 1950, Serial No. 179,437
10 Claims. (Cl. 281—15)



1. A desk pad holder for holding a pad of paper comprising a body member having a substantially flat portion for receiving the pad thereon, said body member having an aperture therein for receiving an end portion of the pad of paper, an element engaging said pad end portion and having inclined surfaces at the end of the element, and transversely movable members slidably engaging said inclined surfaces to clamp said pad end portion between said element and said body member.

2,589,397
ELECTRONIC DISCHARGE TUBE WITH A PLURALITY OF PLATE-GRID SYSTEMS
Louis W. Koehler, Santa Rosa, Calif.
Application October 3, 1949, Serial No. 119,282
6 Claims. (Cl. 313—5)

1. An electronic discharge tube comprising an evacuated container, an electron emitting cathode, two anode-grid systems located symmetrically on both sides of a plane of symmetry passing through the cathode, each system including an anode and a grid, the latter covering and intersecting completely the space between the anodes, and each anode and grid consisting of two sections, inclined towards each other and towards the said plane of symmetry, electron flow preventing shields on the cathode arranged substantially on both sides of a plane at right angles to the said plane of symmetry, said shields dividing the electron flow emitted by the cathode and confining it to a zone located in the vicinity of the aforesaid plane of symmetry, and means for impressing fluctuating voltages of different phase on the grids of said system.



2,589,398
ZINC BASE CASTING ALLOYS AND METHOD OF ALLOYING
Sidney Kornblum, Brooklyn, N. Y.
No Drawing. Application October 20, 1949, Serial No. 122,581
5 Claims. (Cl. 75—178)

1. In the casting of a zinc base alloy consisting of from 94½% to 95% zinc and from 5% to 5½% aluminum, the step of adding potassium zirconium fluoride to said alloy, and casting an object therefrom.

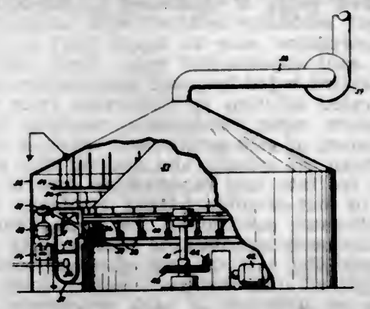
2,589,399
ZINC BASE CASTING ALLOYS
Sidney Kornblum, Brooklyn, N. Y.
No Drawing. Application January 2, 1952, Serial No. 264,655
3 Claims. (Cl. 75—178)

1. A zinc base casting alloy characterized by a high degree of fluidity in molten state and the substantial elimination of surface porosity in the objects therefrom consisting of from 91.9% to 96.48% zinc, from 3.5% to 4.5% aluminum, up to 3.5% copper and from .02% to .10% magnesium, to which has been added zirconium in an amount from .0125% to 1.0% of the total weight of the other metals comprising the alloy.

2,589,400
DRYING APPARATUS
Frederick W. Koster, Wallingford, Pa., and Louis A. Oberly, Twinsburg, Ohio, assignors to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Original application April 19, 1945, Serial No. 589,200. Divided and this application January 21, 1949, Serial No. 71,896
5 Claims. (Cl. 34—1)

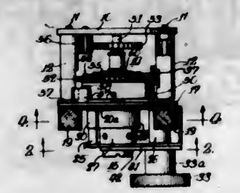
1. Apparatus for drying parcels of filamentary material and the like comprising a foraminous belt electrode for supporting a parcel to be dried, means for moving the electrode means through

a path, a duct arranged below at least a portion of the path, fan means for forcing a gaseous medium through the duct, means adjacent the fan means for heating the medium, independently controlled humidifying means spaced at



intervals in the duct, spaced openings along the duct for directing the medium upwardly toward the foraminous electrode means, co-operating electrode means arranged above the path, and means for impressing a high frequency electric current on the electrode means.

2,589,401
TORQUE TESTING AND CALIBRATING DEVICE
Fred Krahulec, Skokie, Ill., assignor to A. C. Nielsen Company, a corporation of Illinois
Application February 21, 1947, Serial No. 730,143
7 Claims. (Cl. 73—139)



1. A torque meter comprising a stationary main supporting plate, a bracket, a center stud fixed to said plate pivotally relating said bracket to said plate, a calibrated energy storage device disposed on said stud having one portion fixed relative to said stud, means for attaching another portion of said device to said bracket so that movement of said bracket relative to said plate tends to occur in dependence upon the energy stored in said device, means connected to said bracket for supplying a torque to an associated element, means for transmitting a force representative of said torque from said associated element to said bracket to cause relative movement between said bracket and said plate thereby storing energy in said device, and means for indicating the magnitude of the torque applied to said bracket.

2,589,402
HAMMER FRAME
Roy A. Kropp, River Forest, Ill., assignor to Kropp Forge Company, Cicero, Ill., a corporation of Illinois
Application March 10, 1948, Serial No. 13,989
17 Claims. (Cl. 78—13)

8. In combination in a hammer frame construction of the character described, means defining a columnar frame body, said frame body having a recess therein opening from the inner side thereof, and a hammer frame guide mounted therein, said hammer frame guide comprising relatively heavy gauge spaced steel side plates, a back plate disposed edgewise between the inner margins of the side plates, a bottom plate disposed between the bottom margins of the side plates and below the bottom edge of the



back plate, and a top plate disposed between the upper margins of the side plates and on the upper edge of the back plate, all of said plates being permanently welded together into a unitary assembly and the assembly being welded into unitary assembly within said opening in said frame body.

2,589,403
TRANSDUCER CONSTRUCTION AND METHOD
Franz N. D. Kurie, La Jolla, Calif., assignor to United States of America as represented by the Secretary of the Navy
Application December 14, 1943, Serial No. 514,290
7 Claims. (Cl. 171—327)

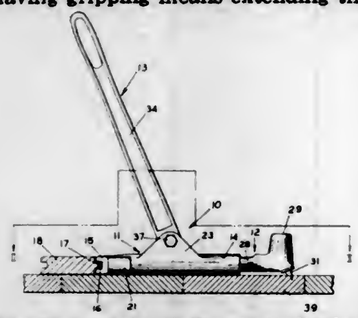


1. A crystal-type transducer comprising a backing plate, a layer of vitreous enamel bonded to one face of said plate, and a piezo-electric crystal bonded to said layer of vitreous enamel.

2,589,404
FLOORING JACK
Leo H. Lab, Flint, Mich.
Application February 6, 1950, Serial No. 142,669
1 Claim. (Cl. 254—16)

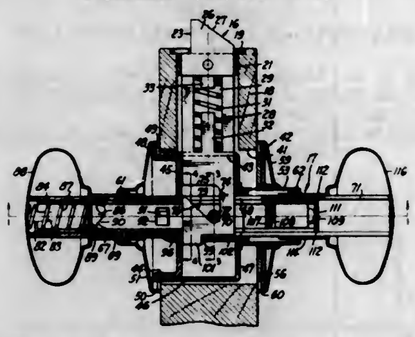
In a device for positioning a floor board against an adjacent board and upon a supporting means, the combination comprising: a cylindrical body member having a coaxial passage therein opening through one end thereof, said member having an axially aligned slot extending thereinto and communicating with said passage intermediate its ends; a pair of parallel, coextensive bosses secured to said member along opposite longitudinal edges of said slot; a cross bar secured to the other end of said member and defining therewith a plane perpendicular to said bosses, said

cross bar having a groove along that side remote from said member and having a boss on the opposite side thereof spaced from said member; a thrust bar having one end slidably disposed within said passage and having an opening therethrough near said one end and aligned with said slot, the other end of said bar being weighted and having gripping means extending therefrom



in a direction substantially perpendicular to said plane and remote from said slot; and a lever having one end extending through said slot and into said opening, and pivotally supported near said one end upon said bosses, whereby movement of said lever toward said cross bar effects movement of said thrust bar with respect to said member.

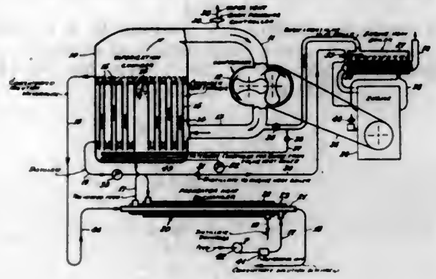
2,589,405
LATCH
Charles W. Lang, San Francisco, Calif.
Application September 3, 1948, Serial No. 47,623
8 Claims. (Cl. 292—170)



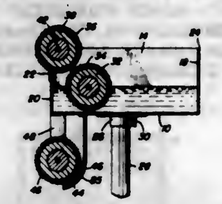
2. In a latch of the character described, a latch bolt slidably mounted in the latch and having a flat end thereon, a cam slot formed in said flat end, a spindle slidably mounted in the latch and having a slot formed therein to receive said latch bolt flat end, a pin carried by the spindle and engaged with said cam slot to move the latch bolt axially upon axial sliding movement of the spindle, an extension on the end of said latch bolt flat end, and means rotatably supported on the spindle for engaging said extension to hold said spindle against sliding.

2,589,406
DISTILLATION APPARATUS AND METHOD
Allen Latham, Jr., Jamaica Plain, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts
Application April 12, 1946, Serial No. 661,533
11 Claims. (Cl. 202—75)

5. In a method of distillation wherein a solution to be distilled is vaporized in a confined vaporization zone, vapor evolved from solution in said vaporization zone is compressed by a positive displacement compressor until its condensing temperature is above the boiling point of the solution in said vaporization zone, said compressed vapor is condensed in out-of-contact heat exchange relation with solution in said vaporization zone to supply heat to solution in said vaporization zone, fresh solution to be distilled is fed into said vaporization zone, concentrated solution is withdrawn from said vaporization zone, condensate resulting from condensation of said compressed vapor is withdrawn from the system, and said solution to be distilled fed into said vaporization zone is preheated by out-of-contact heat exchange with said withdrawn condensate, the steps comprising continuously maintaining substantially constant both the rate of feed of fresh solution to be distilled into said vaporization zone and the rate of operation of said compressor and supplying auxiliary heat to solution in said vaporization zone, in addition to the heat supplied to said solution in said zone by condensation of said compressed vapor, at a rate which is adapted to build up superatmospheric pressure of the vapor as confined within said vaporization zone prior to said compression step to a pressure substantially above a predetermined superatmospheric pressure of at least 0.5 pound per square inch and which during the supply thereof is substantially in excess of that required to maintain said predetermined superatmospheric pressure of the vapor as confined within said vaporization zone, supplying said auxiliary heat at such rate so as to maintain the pressure of the vapor as confined within said vaporization zone prior to the compression step not lower than said predetermined superatmospheric pressure, and by control automatically responsive to the pressure of the vapor within said vaporization zone above said predetermined superatmospheric pressure preventing said supply of auxiliary heat from effecting any rise in the pressure of the vapor within said vaporization zone prior to the compression step substantially above said predetermined superatmospheric pressure, said auxiliary heat supplied as aforesaid in combination with said control responsive to the pressure of said vapor and under the said conditions of substantially constant rate of feed and of operation of said compressor thereby automatically maintaining the pressure of the vapor within said vaporization zone prior to the compression step substantially constant at said predetermined superatmospheric pressure during distillation.

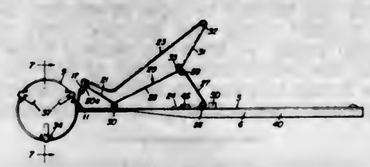


2,589,407
PAINT APPLICATOR WITH A PAIR OF ROLLERS EXTERIOR OF THEIR PAINT SUPPLY RECEPTACLE
Joseph O. Lee, West Allis, Wis.
Application March 18, 1949, Serial No. 82,086
2 Claims. (Cl. 15—132.5)



1. In a continuous feed paint applicator comprising a receptacle having sides, a bottom and an open top, a paint application roller carried by said receptacle and projecting through said open top, a feed roller mounted for rotation in said receptacle and contacting said application roller, a third roller disposed beneath the bottom of said receptacle in vertical alignment with said application roller so as to coact with the latter to smooth the paint and thus serve as a follow up roller, and brackets secured to and depending from at least two of said sides and supporting said third roller and said application roller.

2,589,408
EGG BREAKER AND SEPARATOR
Oscar J. Le Boeuf, Gary, Ind.
Application April 7, 1950, Serial No. 154,492
6 Claims. (Cl. 146—2)



1. An egg breaker and separator comprising a pair of handles pivotally connected at their inner ends to each other, a pair of contractible annular egg holders at the outer ends of the handles axially alined with each other, means internally of the egg holders for breaking the shell of an egg placed therein, and lever means carried by one of the handles and connected to the egg holders for contracting the latter to break the egg, said lever means comprising a rigid upper lever and a foldable lower lever positioned longitudinally of the handle and actuated by a depressing movement subjected to the upper lever, means connecting the outer end of the upper lever to both of the egg holders, means pivotally connecting the inner end of the lower lever to the handle, a link pivotally connecting the inner end of the upper lever to the lower lever at its foldable portion, and a link pivotally connecting the outer ends of the levers to each other.

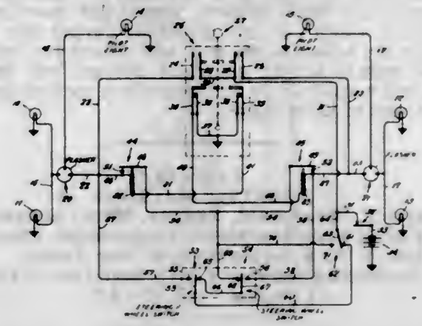
2,589,409
BLOUSE
William J. Leichter, Bronx, N. Y.
Application November 5, 1948, Serial No. 58,509
2 Claims. (Cl. 2—106)

1. In a device of the class described, a blouse including a back panel provided with a rectangular opening therein, a frame disposed on the inner face of the back panel in surrounding relation to said opening therein, said frame including three pieces of material folded upon themselves to provide channel members and secured to the rear panel adjacent the bottom and side edges



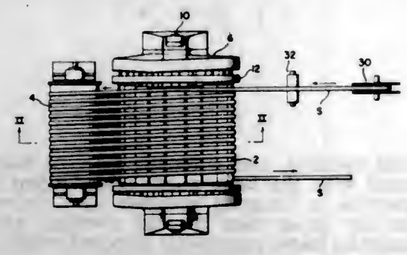
of said opening, and a fourth piece of material integral with the back panel folded upon itself to provide a channel member and extending along the upper edge of said opening, and an ornamental panel removably disposed within said frame.

2,589,410
VEHICLE DIRECTIONAL SIGNAL SYSTEM
William T. Leete, Nichols, Conn., assignor to E. W. Carpenter Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut
Application April 23, 1948, Serial No. 22,759
14 Claims. (Cl. 177—337)



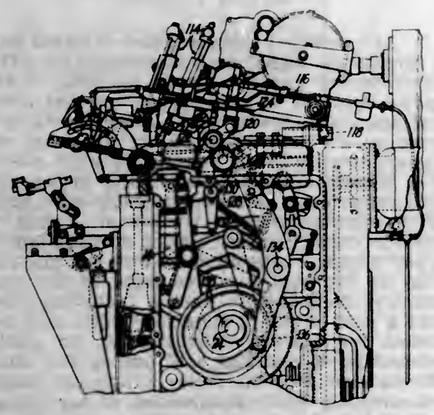
4. In a vehicle having an electric power supply, a directional signal system comprising left and right electric signals; means including a switch device operable in response to manual pressure and adapted to restore itself upon removal of said pressure, for connecting one or the other of the signals directly to the power supply for energization therefrom, said means being so constituted that restoring of said switch device after removal of the manual pressure therefrom automatically disconnects said signal; switch means comprising a pair of single-pole double-throw switches, operable in response to movements of the vehicle steering mechanism; means including circuits and a pair of relays connected with said switch means for automatically making an auxiliary connection to energize said one or the other of the signals from the power supply substantially concurrently with energization of the signal by said switch device, said auxiliary connection being maintained until said switch means is actuated by the steering mechanism in moving out of straight-ahead position; and means including a circuit connected with said switch means for making a second auxiliary connection to energize said one or the other of the signals in response to the said actuation of the switch means, the latter breaking the said second auxiliary connection when the steering mechanism returns to straight-ahead position.

2,589,411
CONTINUOUS STRAND HELICAL CONVEYING APPARATUS
Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application April 5, 1949, Serial No. 85,699
7 Claims. (Cl. 28—71.5)



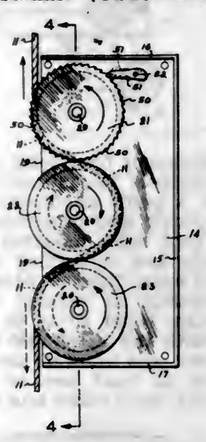
7. Continuous strand helical conveying apparatus comprising a rotatable reel and a rotatable roll spaced therefrom with its axis substantially parallel to the axis of the reel, said rotatable reel having a housing at each end thereof, a roll body extending between and rotatably mounted in said housings, a plurality of closely spaced non-rotatable splines arranged around the periphery of said body to form a substantially continuous ring surface, means for moving the splines axially in one direction during the time they are adjacent the roll, and means for moving the splines axially an equal amount per degree of reel revolution in the opposite direction during the rest of their travel.

2,589,412
LASTING MACHINE
Lester S. Macdonald, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application October 5, 1949, Serial No. 119,591
7 Claims. (Cl. 12—8.7)



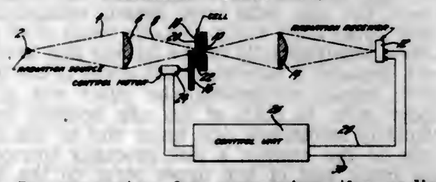
1. In a lasting machine, wipers for wiping the marginal portion of an upper around an end of a last inwardly over an insole on the last, power-operated means for normally advancing said wipers lengthwise of the last to a predetermined limit of movement in the wiping operation, a member separate from said wipers and arranged to be moved idly by said power-operated means, and additional positively acting power-operated means including a member movable into engagement with said first-named member for insuring the completion of the movement of the wipers to said predetermined limit regardless of resistance of the upper materials to the action of said first-named means.

2,589,413
SASH BALANCE
Louis A. Macklanburg, Oklahoma City, Okla.
Application June 20, 1949, Serial No. 100,195
2 Claims. (Cl. 16—196)



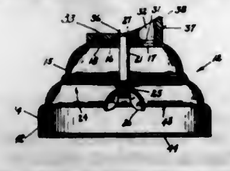
1. In a sash balancing mechanism, a means for creating friction on a sash supporting cord, including: a rigidly mounted housing having one side open to permit entry and exit of said cord; a plurality of pulleys rotatably mounted on individual vertically aligned axes with the adjacent edges of the pulleys in close proximity, the cord being trained along the opposite edge of each alternate pulley so that the pulleys offer resistance to the longitudinal travel of the cord; and means in the housing for holding at least one of said pulleys from rotating in one direction.

2,589,414
RADIANT ENERGY TRANSMISSION AND REFLECTION ANALYZER WITH ADJUSTABLE FILTER
Edward John Martin, Pleasant Ridge, Mich., and Robert N. Frawley, El Monte, Calif., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 23, 1947, Serial No. 775,666
7 Claims. (Cl. 88—14)



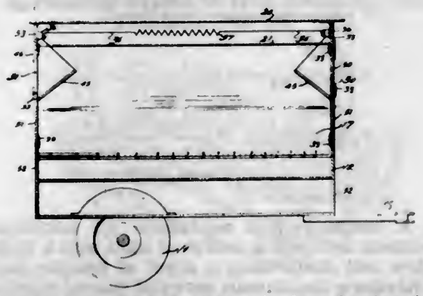
1. In apparatus for comparing the radiant energy transmission characteristics of two specimens having different energy transmission characteristics, including a source of energy, an adjustable neutral filter consisting of a series of overlapping rotating disc sectors the magnitude of overlap of which is adjustable, placed between said source of energy and the one of the specimens having the greater radiant energy transmission characteristic, means for reciprocating specimens and associated filter so as to cause the radiant energy from said source to be focused alternately through the specimen having the lesser radiant energy transmission characteristic and through the specimen having the greater energy transmission characteristic plus said filter, an energy receiving means capable of transforming radiant energy into an electrical signal, means for focusing said energy from the specimen in the radiant energy path on to said energy receiving means, and electrical indicating means connected to the energy receiving means for determining the change in amplitude of said electrical signal as the energy is transmitted alternately through said specimens.

2,589,415
COCKTAIL SHAKER
Philip Meshberg, Trumbull, Conn.
Application April 9, 1946, Serial No. 660,781
12 Claims. (Cl. 222—189)



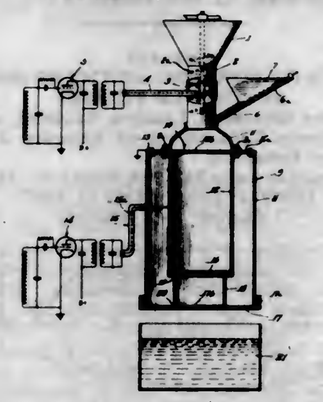
1. A cap for a cocktail shaker, comprising a cup-shaped body having a discharge opening and a vent opening; and a combined spout and stopper member having a generally flat, wafer shape, said member being pivotally mounted on and broadside to the exterior of the said body and having discharge and vent openings located for registration with the corresponding openings of the body, the discharge opening of the member extending between its opposite sides and being located closely adjacent one edge portion thereof, and the thickness of the member being non-uniform and increasing to a maximum substantially at the said edge portion so that the latter constitutes a pouring lip.

2,589,416
COLLAPSIBLE VEHICLE BODY
Harry W. Miller, Samoa, Calif.
Application May 2, 1947, Serial No. 745,605
2 Claims. (Cl. 296—23)



1. In a collapsible trailer, a body, a horizontally disposed roof spaced above said body, a pair of upstanding end panels disposed intermediate said roof and said body and each having one end pivotally connected to said body and having the other end connected to said roof, each of said end panels including upper and lower sections disposed in end-to-end relation with respect to each other and pivotally connected together for movement from an extended position in alignment with each other to a retracted position substantially confronting each other, a pair of spaced pulleys disposed in longitudinal alignment and at the same elevation with respect to each other and each supported on said roof contiguous to an end thereof, a cable having an intermediate portion trained over said pair of pulleys and extending horizontally and longitudinally of said roof, a retractile coil spring arranged between said pulleys and connected in said cable, and a lever extending upwardly and inwardly of the pivotal connection of the lower and upper sections of each of said end panels when the end panels are in their extended position and having one end fixedly secured to the lower section below and contiguous to the adjacent pivotal connection and having the other end connected to the adjacent free end of said cable for normally biasing said upper and lower sections into said extended position.

2,589,417
APPARATUS FOR HEATING AND MIXING PLASTIC COMPOSITIONS
Eugene Mittelmann, Chicago, Ill., assignor to Henry Jenett, Montclair, N. J.
Application March 22, 1949, Serial No. 82,774
8 Claims. (Cl. 219—47)

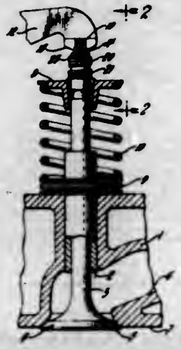


1. An apparatus for the continuous processing of a fluent plastic material, said apparatus comprising a coaxial line structure having an inner conductor and an outer conductor, said outer conductor being of greater length than said inner conductor, said line structure also including a terminating capacitance, means for feeding plastic material through one of said conductors and through said terminating capacitance, and a radio frequency oscillator exciting said line structure, the inlet end of said line structure being at ground potential and the outlet end being at a low potential, said line structure and terminating capacitance being electrically equivalent to an open circuited line one quarter the wave length of the oscillations generated by said oscillator.

2,589,418
VALVE ROTATING DEVICE
Thomas H. Mitzelfeld and Andrew W. Zmuda, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 31, 1950, Serial No. 193,221
9 Claims. (Cl. 123—90)

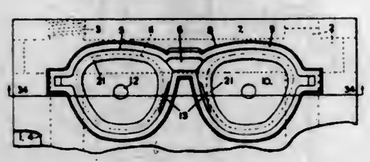
1. In combination with a poppet valve having a stem guided for axial rotation and reciprocation, a valve operating rocker including a stem engaging portion having lateral movement in

alternately opposite directions relative to the stem during valve reciprocation, a pair of similarly wound coil springs embracing the stem, each of said springs terminating in an out-turned



loop at its end nearest said portion, said loops being on opposite sides of the stem and interengaged with said portion whereby each spring is oscillated rotatively about the axis of the stem during operation of said rocker.

2,589,419
METHOD OF FORMING ARTICLES SUCH AS SPECTACLE FRAMES
Leslie John Moncrieff, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application June 24, 1948, Serial No. 34,889
In Great Britain July 11, 1947
7 Claims. (Cl. 18—56)



1. Process for forming articles from thermoplastic sheet material, said process comprising pressing a thermoplastic sheet, of a thickness less than the average thickness of the article to be formed and at a temperature at which the thermoplastic material of the sheet flows freely under the pressure applied, between two die members and, by relative motion between said members, severing the article from the sheet at the boundaries of the article while, over at least part of the length of said boundaries, squeezing across said boundaries some of the material of the sheet lying originally outside said boundaries, so as to form an article having at least part of its area adjoining said boundaries of greater thickness than said sheet.

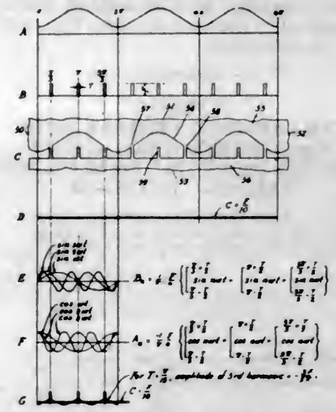
2,589,420
ACTUATOR FOR RECIPROCATING WELL PUMPS
Edgar W. Mong and William O. Anderson, Los Angeles, Calif.
Application May 5, 1947, Serial No. 746,094
5 Claims. (Cl. 103—211)

1. A pump actuator for use with a well tubing carrying a pump with a reciprocating part operated by a line extending through the tubing including, a compression spring for insertion in the tubing to bear down on said part, an abutment for the upper end of the spring, a means releasably setting the abutment in the tubing above the pump including, a seat inserted in the tubing and a spring member connected with the abutment and releasably cooperating with the



seat, means for releasing the first mentioned means including a member slidable through the tubing to engage and deflect the spring member, and a bumper operated by the line to engage and move the abutment upwardly in the tubing.

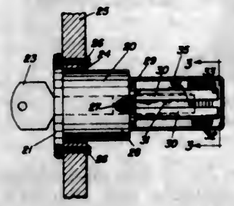
2,589,421
LUMINOUS FLUX MODULATOR
Montford Morrison, Upper Montclair, N. J.
Original application July 7, 1945, Serial No. 603,717. Divided and this application July 3, 1946, Serial No. 681,215
3 Claims. (Cl. 88—61)



1. A luminous flux modulator for continuous movement between a source of light and a photoelectric cell comprising a sheet of opaque material having a continuous series of spaced openings therein arranged in a closed path, said series of openings having a form composited from an interrupted line parallel to said path and an interrupted sine curve having a number of complete periods within said series, the axis of said curve being parallel to said line, the interruptions in said line and curve being formed by integral bars of said material extending transversely of said path, some bars comprising spacers between said openings, said bars all extending for the same transverse distance from and interrupting the continuity of the said line at least three times

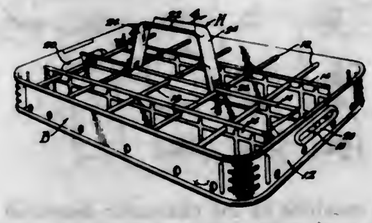
for each complete period, the bars being so spaced that as the openings modulate the light in accordance with said curve the bars provide a harmonic higher than the second of the fundamental of said sine curve.

2,589,422
KEY EJECTING LOCK
Joseph Mullan, Baltimore, Md.
Application September 7, 1949, Serial No. 114,306
2 Claims. (Cl. 70—383)



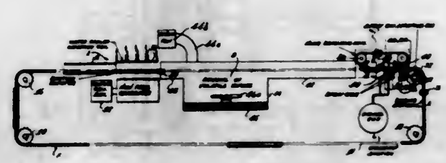
1. In combination with a lock of the key operable cylinder type, a hollow stationary casing having an open end secured to said lock and stationary therewith, said casing having an opposite closed end, guiding means secured to the lock cylinder and extending within said casing, a slug separate and independent from the lock and slidable within said guiding means and adapted to be contacted by the key inserted in the lock, and a spring in said casing surrounding said guiding means and having one end secured to said slug and its opposite end secured to said guiding means, whereby the insertion of the key to operate the lock forces the spring outwardly in the casing and the removal of the key from locking position causes ejection of the key from the lock by the spring.

2,589,423
BOTTLE CARRIER AND HANDLE FOR USE THEREWITH
Isaac Nadelsky, Grand Rapids, and Llewellyn D. Morehouse, Marion, Mich., assignors, by mesne assignments, to Metal Carrier Corporation, Grand Rapids, Mich., a corporation of Michigan
Application August 10, 1949, Serial No. 109,588
2 Claims. (Cl. 224—45)



1. In combination with a bottle carrier of the type having a bottle basket with a longitudinal spacer and transverse struts, a detachable handle comprising a substantially U-shaped member with a central gripping portion and depending leg portions capable of retracting movement, each of said leg portions being slotted at its end to provide a pair of fingers, said fingers terminating in outwardly extending hook portions bent inwardly at their tops at a spaced distance from the upper end of said slots so as to both overlie and underlie said struts and thereby hold said handle in a fixed vertical position above said carrier, whereby said handle can be easily attached to or removed from said basket by merely first retracting one of said leg portions by pressing downwardly and inwardly thereon to seat the top of the slot of said retracted leg on the top of said spacer inside of one of said struts while the hook portion of the other leg is secured about another of said struts, and then raising said retracted leg.

2,589,424
APPARATUS FOR BAKING LACQUER ON METAL ARTICLES
Franz Netschert, Glendale, Calif., assignor to Technical Glass Company, Los Angeles, Calif., a corporation of California
Application September 8, 1947, Serial No. 772,615
6 Claims. (Cl. 118—51)

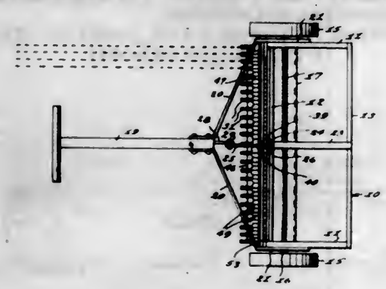


5. In an enameling machine for metal articles having a continuously traveling conveyor furnished with article carriers and moving the articles through an enamel spray applying mechanism and subsequently through a high frequency electrical induction heating means for baking enamel unit and finally through a cooling zone: a housing extending around the conveyor arranged between the enamel applying mechanism and the enamel baking unit and having an air intake opening in the wall thereof; an air filter mounted in said air intake; and electric fan means cooperating with said housing to flow filtered air over the articles carried by the conveyor to evaporate solvent from the enamel coating on the articles and maintaining the pressure of the air in said housing above that of the atmosphere, a muffle surrounding the conveyor and extending from the induction baking unit in the direction of travel of the articles leaving said unit and open at its end away from said unit thereby retarding the rate of loss of heat by the articles from the temperature at which the articles leave the heating unit to that at which the articles emerge from the muffle and any residual volatile material in the enamel is removed.

2,589,425
LAWN SEED DRILL
Hymie G. Newman and Dave B. Newman, Edmonton, Alberta, Canada
Application March 17, 1950, Serial No. 150,164
2 Claims. (Cl. 111—82)

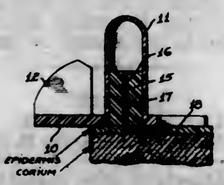
1. A lawn seed planter comprising a wheeled hopper adapted for forward movement along a longitudinal path of travel, said hopper being of considerable transverse extent perpendicular to said path of travel and having a generally horizontal bottom and a generally vertical rear side,

the rear side being provided with a discharge opening extending for substantially the entire transverse extent of the hopper, means operatively connected with the hopper for feeding seed through the discharge opening, handle means secured to the hopper and extending longitudinally rearwardly therefrom for propelling and tilting the hopper, a generally flat inclined gage plate secured to the hopper bottom and arranged below the discharge opening and extending for substantially the entire transverse extent of the hopper, the gage plate extending below and rearwardly of the rear side of the hopper and including a part adapted to contact the ground when the handle means is tilted downwardly, and a drill plate having corrugations disposed parallel to said path of travel mounted upon the gage plate and arranged below the discharge



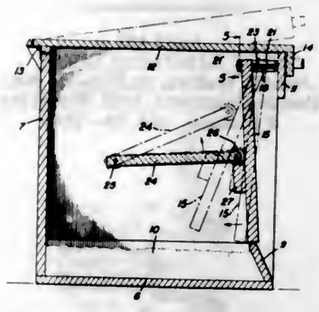
opening, said drill plate extending for substantially the entire transverse extent of the hopper and substantially covering the gage plate, the corrugations of the drill plate being of small transverse extent and disposed parallel to the path of travel of the hopper to form closely spaced narrow troughs receiving seed from the discharge opening, the lower portion of each trough being separated from other like portions and formed into a seed conveying extension to provide a series of transversely spaced extensions receiving seed from said troughs and projecting below and rearwardly of the part of the gage plate adapted to contact the ground, the lower ends of said extensions adapted to form closely spaced furrows in the ground and deposit seed therein when the handle means is tilted downwardly and the hopper is propelled forwardly.

2,589,426
INJECTOR
Robert W. Ogle, Pasadena, Calif.
Application November 25, 1949, Serial No. 129,438
14 Claims. (Cl. 128—215)



1. An injector comprising: a base member having an extended skin contacting surface; a member associated with said base member and having a hollow portion adapted to be filled with fluid; and a hollow needle communicating with said hollow portion and having a part extending below and substantially parallel to said skin contacting surface.

2,589,427
SALT BOX FOR ANIMALS
Charles Ossmann, Madison, Wis.
Application October 27, 1949, Serial No. 123,807
2 Claims. (Cl. 20—16)



1. A closure for a box comprising an upright door, means slidably and pivotally suspending the door at its upper edge to the box in upright position for swinging inwardly and outwardly of the box into open and closed positions respectively, a pivotally mounted member in said box behind said door gravitating downwardly in wiping engagement with said door to swing said door into closed position, and a stop on the rear side of the door engaging said member and limiting downward swinging of said member into a position in which said door and member are perpendicular relatively, whereby said member prevents inward swinging of said door into open position while said door and member are perpendicular relatively, said means including rods on which said door is slidable out of perpendicular relation to said member for camming coaction with said member to swing the member upwardly upon inward swinging of said door into open position.

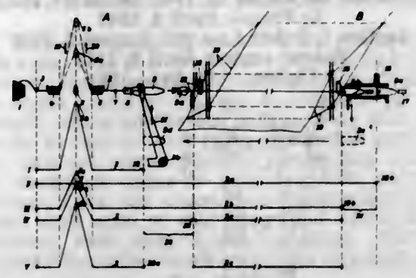
2,589,428
COLLATING MACHINE
Lewis C. Pearce, Berea, Ohio, assignor to Pearce Development Company, Cleveland, Ohio, a corporation
Application October 10, 1950, Serial No. 189,362
36 Claims. (Cl. 270—58)



1. A machine of the character described comprising a plurality of sheet receiving means at separated stations to receive and support sheets in vertical stacks arranged in line formation, a gripper carrier to overlie the sheet stacks and travel in a horizontal path in parallelism with the line in which the stacks are disposed, a set of grippers carried by the carrier, the number of grippers in the set agreeing with the number of sheet receiving means, the grippers being spaced longitudinally of the carrier a distance substantially less than the length of the sheets, means automatically operating the grippers to successively grip sheets from the stacks in sequence as the grippers travel over the stacks, and means for subsequently operating the grippers as they reach a fixed point to release the gripped sheets.

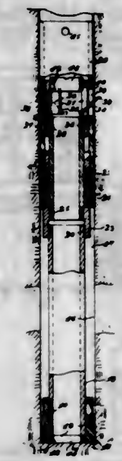
19. A machine of the character described comprising a plurality of sheet receiving and feeding means to receive and support superimposed sheets in registered stacked relation with the stacks disposed at an acute angle to the vertical and in line formation, said means operable to feed the stacks upwardly in a path parallel to the line of vertical extension of the stacks, an endless gripper carrier arranged over the sheet stacks with its lower flight overlying the sheet stacks and travelling at a constant speed in a single direction in a fixed horizontal path over said stacks in a line parallel to the line in which said stacks are arranged, a plurality of sets of grippers carried by the carrier at equally spaced intervals therealong, the spacing of such sets being such as to substantially simultaneously present a separate set in operative relation to each sheet stack as the carrier operates, the grippers of each set being spaced longitudinally of the carrier a distance substantially less than the length of the sheets, means automatically and separately operating the grippers to grip a sheet as the set comes into operative relation to the sheet stacks, the grippers of each set being operated in sequence starting with the trailing gripper and ending with the leading gripper of the set whereby the set will grip sheets successively from the sheet stacks commencing with the first one traversed by the set, cooperating sheet pick-up means, sheet separating means and sheet transfer means for conditioning a sheet at each stack for gripping, and means for subsequently operating the grippers successively as they reach a fixed point in their travel and in a sequence the reverse of that in which they gripped the sheets to release the sheets.

2,589,429
DEVICE FOR TENSIONING THE WEFT THREAD IN LOOMS
Erwin Pfarrwaller, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application November 20, 1946, Serial No. 711,100
In Switzerland November 24, 1945
18 Claims. (Cl. 139—126)



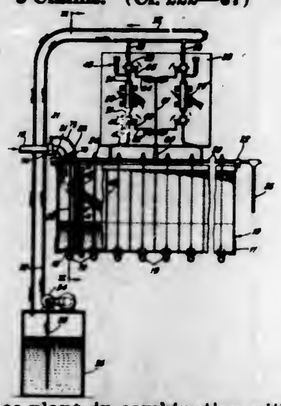
10. In a loom for weaving, the combination of drive means, a stationary source of weft thread supply, picking means, weft thread pull-back means, weft thread motion retarding means, said three last mentioned means individually comprising actuating means connected with and actuated by said drive means and operated at interdependent timing, said actuating means being so constructed as to release said retarding means at the start of the pick and to apply same before completion of the pick.

2,589,430
APPARATUS FOR SEALING OFF WELLS BEING DRILLED
Walter H. Pletcher, Philo, Ohio
Application July 21, 1950, Serial No. 175,198
8 Claims. (Cl. 166—12)



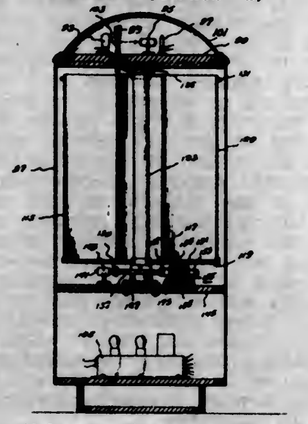
1. An apparatus for sealing off a well comprising an elongated tubular body structure defining a passage through the apparatus from end-to-end thereof, an expansible bottom sealing member mounted on the lower end of said body structure, an annular top sealing member disposed adjacent the upper end of said body structure, means for supporting said top sealing member secured to the body structure below and adjacent said top sealing member, a ring slidably mounted on the body structure above the top sealing member, a supporting member constituting a part of the body structure disposed above said ring forming a stop to limit upward sliding movement of the ring on the body structure, an actuating member loosely disposed around said supporting member having an upper end extending thereabove and a lower end extending therebelow and connected detachably to said ring whereby said apparatus may be suspended from above, said apparatus being adapted to be suspended by said actuating member for lowering the apparatus into a well, and said actuating member being adapted to be released for compressing the bottom sealing member between the bottom of the well and the lower end of said tubular body structure and to permit said actuating member to slide downwardly with the ring relatively to the remainder of the tubular body structure for expanding and compressing the top sealing member between said supporting means and ring for expanding the sealing member into engagement with a portion of the well wall to seal off the well between said sealing members and around the portion of the tubular body structure disposed therebetween, and a plurality of lugs mounted in said supporting member having lower ends swingably connected thereto, said supporting member having means for housing said lugs therein in a nested position, said actuating member having openings movable into registry with said lugs when the actuating member is moved downwardly relatively to the supporting member and through which said lugs are swingable outwardly of the actuating member to be anchored in the wall of the well above the top sealing member to prevent upward displacement of the apparatus.

2,589,431
QUANTITATIVE FEEDER FOR ICE PLANTS
Julian E. Reed, Pacific Palisades, Calif., assignor, by mesne assignments, to Zenith Processing Corporation, Los Angeles, Calif., a corporation of California
Application May 6, 1947, Serial No. 746,343
5 Claims. (Cl. 222—67)



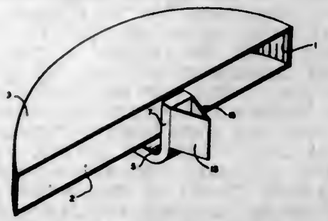
1. In an ice plant, in combination with a dump tank for water, including a water supply line provided with a valve, a plurality of dump valves in the bottom of the tank and pivoted lever means for opening said dump valves: a receptacle positioned above the dump tank and provided with an inlet at the top and an outlet at the bottom and arranged to contain a predetermined volume of treating fluid; a conduit means connecting the inlet with a supply of treating liquid; a normally closed, biased inlet valve in the inlet conduit; a discharge conduit leading from the outlet of the receptacle to the dump tank; a normally open valve in said discharge conduit and means, operable by movement of the pivoted lever to open the dump valves, for closing the discharge valve and opening the inlet valve to fill the receptacle with treating fluid.

2,589,432
COUNTING AND RECORDING APPARATUS
Trueman T. Rembusch, Indianapolis, Ind., and Harris P. Wolfberg, Denver, Colo.
Original application August 30, 1944, Serial No. 551,376, now Patent No. 2,540,911, dated February 6, 1951. Divided and this application July 8, 1947, Serial No. 759,642
1 Claim. (Cl. 232—1)



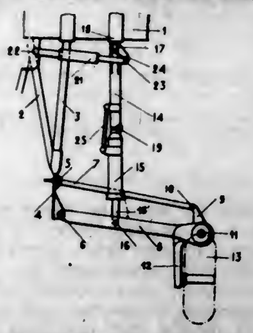
In an article counting system, an article receiving device having a rotatable receptacle, comprising a base plate concentric to the device, a plate rotatably mounted on said base plate having at least one elongated slot therein and an anchor projection for a biasing spring, a projection fixed to said base plate and extending thru said slot, a helical biasing spring having its ends connected to said projections, an electric solenoid mounted on said rotatably mounted plate having a movable core provided with means for engaging and moving in a step-by-step manner and successively stopping said rotatable receptacle a determined distance for article reception thereby.

2,589,433
WAVE GUIDE FEED FOR CYLINDRICAL PARABOLOID
Henry J. Riblet, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application September 17, 1945, Serial No. 616,913
9 Claims. (Cl. 250—33.65)



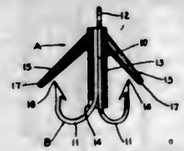
3. A directional microwave antenna comprising a concave reflector formed with an aperture, means including a wave guide for illuminating said reflector, a section of said wave guide obstructing the aperture of said reflector, and a conductive prow-shaped member mounted upon said wave guide section upon the side thereof away from said reflector and extending across said aperture.

2,589,434
RETRACTABLE LANDING GEAR FOR AIRCRAFT
Roger Aimé Robert, Boulogne-sur-Seine, France
Application December 15, 1945, Serial No. 635,368
In France April 3, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 3, 1963
4 Claims. (Cl. 244—102)



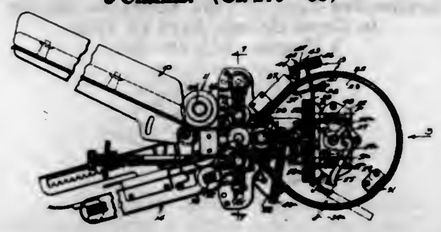
1. A retractable landing gear for aircraft of the type including a wheel maintained in a substantially vertical position during retraction, comprising a deformable parallelogram connected to the aircraft and transverse to the longitudinal axis thereof, means for retracting and extending the wheel by deforming said parallelogram, and a support connecting said wheel to said parallelogram, said support projecting from the parallelogram in a plane transverse thereto a distance at least equal to the radius of the wheel.

2,589,435
FISHHOOK GUARD
Ernest H. Reeben, St. Paul, Minn.
Application December 23, 1946, Serial No. 717,959
2 Claims. (Cl. 43—42.1)



2. A guard for a triple hook having a shank and curved ends including a tubular resilient body enclosing the shank of the hook, said tubular body having a series of angularly spaced notches in one end thereof, said notches being adapted to receive the curved ends of the triple hook, and resilient arm means on said body and extending into position to overlie the pointed ends of the hook.

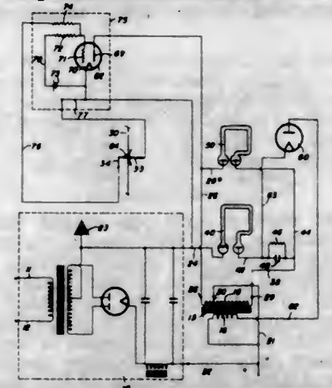
2,589,436
BUCKLING FOLDING MACHINE
Francis J. Rouan, Stamford, Conn., and John William Bach, Port Chester, N. Y., assignors to Pitney-Bowes, Inc., Stamford, Conn., a corporation of Delaware
Application October 13, 1948, Serial No. 54,306
5 Claims. (Cl. 270—68)



1. In a sheet folding machine, the combination with a plurality of sheet folding rollers, of a buckle chute comprising upper and lower parti-cylindrical chute portions having a common axis, a straight chute portion extending from and tangential to each of said parti-cylindrical portions, said straight chute portions converging toward the discharge paths of predetermined pairs of folding rollers, and a sheet end stop element associated with each of said upper and lower chute portions, said stop elements being pivotally mounted for adjustment about the common axis.

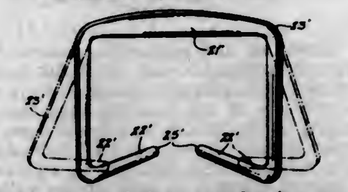
2,589,437
ILLUMINATING DEVICE FOR MOTION-PICTURE PROJECTING OR VIEWING APPARATUS
George Sabol, Jr., and Michael Sabol, Clairton, Pa.
Application July 6, 1948, Serial No. 37,106
3 Claims. (Cl. 315—232)

1. A motion picture or viewing apparatus with a plurality of electric discharge tubes producing differently colored discharges and operating simultaneously for the short timed illumination of rapidly moving picture frames, comprising a mercury arc discharge tube and a neon filled discharge tube, operative supply circuits for the same means for continuously producing successive practically simultaneous short timed discharges in all the discharge tubes, said means including means for producing short timed high voltage impulses in the supply circuits, and



voltage boosting means connected with the supply circuit of the mercury arc discharge tube and operated by the current surge occurring upon the initiation of an arc discharge in the mercury tube for raising the voltage of the high voltage impulses produced by the high voltage producing means which were lowered by the initiation of an arc discharge in the mercury tube to the striking voltage of the neon filled tube.

2,589,438
SLIDE-IN HANDLE FOR BRIEF CASES
Harold Schneider, New Bedford, Mass.
Application September 21, 1950, Serial No. 185,930
1 Claim. (Cl. 150—12)

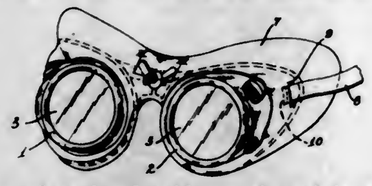


A handle for a brief case having a pair of side pieces each provided with a pair of holes therein centrally adjacent the upper edge thereof, which comprises a pair of inverted U-shaped, solid molded, resilient handle components each having a tail projecting inward at an upward inclination from the end of each side arm, said side arms extending through said holes with said tails completely within the latter, and each said component being flat on one side and having the other side rounded except for an outer edging flange.

2,589,439
GOGGLES
William L. Seidel, Wyomissing, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania
Application March 26, 1951, Serial No. 217,487
2 Claims. (Cl. 2—14)

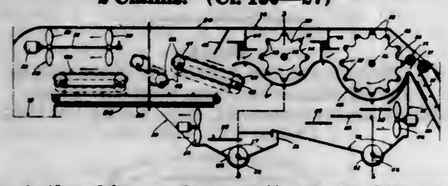
2. A pair of goggles comprising outwardly and rearwardly flared cup-shaped lens supporting portions of hard material each having a side

temple covering portion, a light-shielding mask of resilient material and having a pair of openings whose perimetrical portions have grooves so shaped as to detachably, frictionally and yieldably receive the mouth portions of said lens supporting portions, the outer rim portion of said light-shielding mask being shaped so as to closely fit the contour of the face portion surrounding the eyes of the wearer, a slot provided in the sides, temple-covering



portion of each of said cup-shaped lens supporting portions, and strap means having portions which engage the outside surface of the temple-covering portions of said mask and extend through said slots and terminate in enlarged end portions which are larger than the slots, so that as said strap means is tightened, it will press said temple-covering portions of the mask against the temples of the wearer to insure a secure and light-excluding fit of the mask.

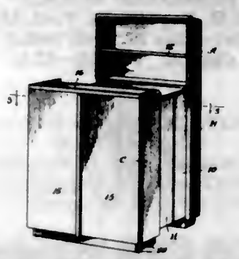
2,589,440
THRESHER WITH SUCTION AND BLAST FANS MOUNTED IN HOUSING
Robert H. Sharpe, Stockton, Calif.
Application August 21, 1946, Serial No. 692,032
2 Claims. (Cl. 130—27)



1. A threshing and separating assembly comprising an elongated housing, the bottom of which includes two longitudinally spaced valleys extending transversely of the housing and each valley terminating at its bottom in a transverse trough, a conveyor in each trough, a grated concave and threshing cylinder unit disposed in a plane above and in spaced relation to each of the valleys, the ends of the housing being freely open for their full width between the side walls of the housing whereby to form a continuous open passage from end to end of the housing between the valleys and units, and means disposed along the width of the opening in the front end of the housing for directing a blast of air through said passage, there being an intermediate opening formed in the bottom of the housing between the valleys and extending for the full width between the side walls of the housing and opening into the housing in a direction toward the opening in the rear end of said housing, and air suction means disposed along said rear end opening.

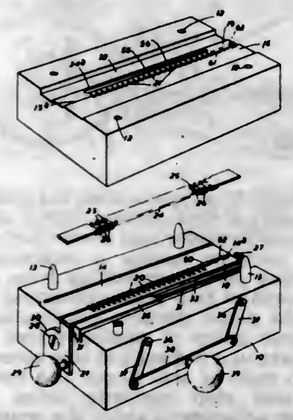
2,589,441
CELLARETTE
James C. Siegel, New York, N. Y.
Application October 9, 1946, Serial No. 702,195
1 Claim. (Cl. 312—140.2)

A combination book-case and bar comprising a pair of rear lower and upper sections fixedly related and having shelves, a front section having a rear open face and adapted to normally lie close to the rear section to simulate a book-case, hinged foldable wall plates connecting the front and rear sections at one end thereof to permit the front section to be disposed in spaced relation to the rear sections to simulate a bar, a hinged rod for connecting said front and rear sections at the other end thereof when a bar is simulated to form a towel rack and to steady



the front and rear sections, said rear lower section and said front section each having parallel side portions at said ends thereof, said side portions on the front section lying in abutting relationship with said side portions on the rear lower section when a book-case is simulated, said wall plates being hingedly connected to the parallel side portions of said one end at the inner surface of said side portions, said wall plates being received within said front and rear sections when a book-case is simulated.

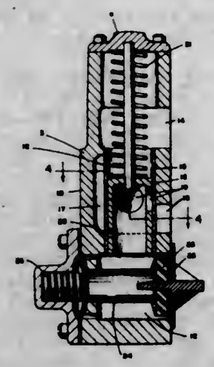
2,589,442
MOLD FOR PRODUCING SLIDING CLASP FASTENERS
John Christian Siegrist, London, England
Application April 17, 1946, Serial No. 662,732
In Great Britain April 13, 1945
9 Claims. (Cl. 18—36)



4. A mould for producing a series of sliding clasp fasteners moulded directly onto the beaded edge of a carrier tape, comprising two rigid mould members the co-operating faces of which are formed with a plurality of aligned moulding depressions and longitudinally extending recessed surfaces which provide a step extending across said moulding depressions intermediate the ends thereof, said recessed surfaces forming, when the mould members are superposed one upon the other, longitudinal channels on either side of said step, in one of which channels the carrier tape can be accommodated, with the

beaded edge of said tape overlying said step, a separable core comprising a series of substantially flat relatively movable members, each of the core members having shaped moulding portions at one end, and means at the other end for the connection of the respective core members one to another, the flat core members when placed within the mould members forming a substantially continuous strip and the shaped moulding portions of said core members extending into the moulding depressions and co-operating therewith in the formation of the fastener elements, while the remaining portions of said core members are disposed side-by-side in abutting relation, means for adjusting the core laterally of the mould members to press the end faces of the shaped portions of the core members against the beaded edge of the carrier tape thereby to urge said beaded edge against the step and prevent leakage of moulding material.

2,589,443
AUTOMATIC PUMP ASSEMBLY PRIMER
Arnold S. Seberg, Elmhurst, Ill., assignor to Sochris Development Company, Chicago, Ill., a corporation of Illinois
Application November 5, 1948, Serial No. 58,567
7 Claims. (Cl. 103—203)



1. An automatic pump assembly primer for combination with a pump and a liquid reservoir comprising a hollow casing provided with an inlet port and two outlet ports, a channel connecting the inlet port with one of the outlet ports, a movable valve member in said channel normally closing it, a separate passageway connecting the two outlet ports through said channel, said valve member movable under pressure of liquid entering the inlet port to close said passageway and open said channel to permit liquid to flow therethrough, said valve member returnable to its original position to open the passageway to permit liquid to flow from one outlet to and from the other outlet when liquid ceases to be forced into the inlet port.

2,589,444
SIDE DRAFT COMPENSATING AND STEERING WHEEL
Edward Sekelik, New Brighton, Minn.
Application March 14, 1947, Serial No. 734,788
1 Claim. (Cl. 301—43)

A wheel for use in conjunction with implements having a side draft, said wheel including a tread rim consisting of a single helix provided with a flange or rib, said helix having the ends thereof sufficiently oppositely offset and connected to each other in a manner to cause the steering wheel to counteract and compensate a side draft of predetermined intensity as the implement is being propelled, thereby permitting rectilinear alignment and propulsion of said



steering wheel and consequently of the implement, whereby the side draft or drag of the implement is eliminated and the propulsion thereof facilitated, and said flange or rib encircling and being secured to the periphery of said tread rim, thereby counteracting lateral skidding of the wheel.

2,589,445
ORGANOSILICON ACIDS
Leo H. Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application June 3, 1949, Serial No. 97,083
19 Claims. (Cl. 260—448.2)

1. Compositions of the general formula

$$R_{3-x}R'_xSiY_aZ_{1-a}$$

where each R represents a radical selected from the group consisting of alkyl and monocyclic aryl radicals, R' is silico-neopentyl, a and x are integers from 0 to 1 inclusive, x having a value of 0 when any R is monocyclic aryl, Y represents a radical of the formula $[C_nH_{2n}(COOH)]$ where n is an integer of from 2 to 18 inclusive, and Z represents a radical of the formula

$$[C_mH_{2m}CH(COOC_2H_5)_2]$$

where m is an integer of from 1 to 17 inclusive.

2,589,446
PRODUCTION OF DISILOXANE DIBASIC ACIDS
Leo Harry Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application April 13, 1950, Serial No. 155,784. In Great Britain June 30, 1949
5 Claims. (Cl. 260—448.2)

1. $[HOOC(CH_2)_nSi(CH_3)_2]_2O$, where n has an average value of from 2 to 5, inclusive.

2,589,447
PRODUCTION OF SILALACTONES AND OF DISILOXANE DIBASIC ACIDS
Leo Harry Sommer, State College, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application April 13, 1950, Serial No. 155,786. In Great Britain June 30, 1949
2 Claims. (Cl. 260—448.2)

1. The method of selectively cleaving a phenyl radical from a compound of the general formula

$$C_6H_5(CH_3)_2Si(CH_2)_nCOOH$$

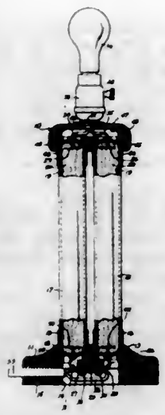
where n has an average value of from 2 to 5, inclusive, which comprises mixing said compound with an aqueous acid which has a dissociation constant of at least 1.1 times 10^{-2}, whereby the phenyl radical is cleaved from the silicon atom with the formation of a silane ester of said acid.

2,589,448

LAMP HAVING HOLLOW TRANSLUCENT LAMP - SOCKET - SUPPORTING MEMBERS CONTAINING TRANSLUCENT ELECTROLYTE

Henry D. Spence, Plymouth, Mich.

Application May 12, 1948, Serial No. 26,559
7 Claims. (Cl. 240—81)



1. An electric lighting fixture for the reception of an electric lamp, comprising a base, a hollow translucent upright rising from said base, said upright having a substantially completely enclosed chamber therein containing a translucent electrolyte extending substantially from the bottom to the top of said upright, spaced electrodes mounted in the upper and lower regions respectively of said electrolyte, a lamp receptacle mounted on said upright and electrically connected to one of said electrodes, all portions of said upright and everything contained in the chamber therein between said spaced upper and lower electrodes including said electrolyte being completely translucent, and a lamp energization circuit connected to said receptacle and including said electrodes with said electrolyte in series therewith, said electrolyte constituting the sole direct electrical conductor between said spaced electrodes.

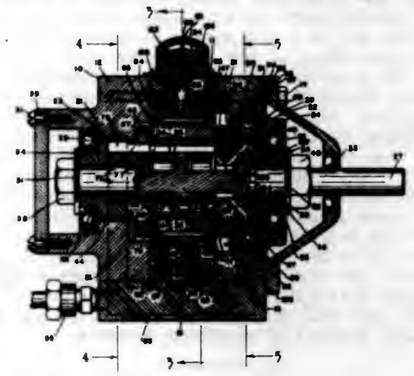
2,589,449

MOVABLE VANE PUMP

Sterling O. Stageberg, Minneapolis, Minn.

Application October 15, 1943, Serial No. 506,325
2 Claims. (Cl. 103—136)

2. In combination, a stator having a bore therein, a rotor within said bore having an axis eccentric with respect to the axis of said bore and having a plurality of slots therein, members in said slots forming in conjunction with said rotor and stator a plurality of expansible chambers, means forming in conjunction with said stator a bare and an annular groove extending outwardly from said bore and having two radially facing surfaces, a revoluble member on said rotor disposed within said bore, spaced sleeves on said revoluble member slidable along the same and having portions extending into said groove and provided with surfaces thereon engaging the surfaces of the stator at said groove, resilient means acting between said sleeves to urge the surfaces thereof into engagement with the surfaces of said stator, said revoluble member having passageways therein leading from behind the members in said slots to the space between said



sleeves, and means for conducting fluid under pressure into the space between the sleeves.

2,589,450

REMOVING COLOR BODIES IMPARTED TO HYDROCARBONS IN SWEETENING THE SAME

John P. Stanton, Des Plaines, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application May 22, 1948, Serial No. 28,745
15 Claims. (Cl. 196—29)

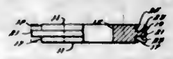
1. In a catalytic oxidation sweetening process for producing a water-white, doctor sweet petroleum product, the steps which comprise contacting a mercaptan-containing petroleum product in the presence of a free oxygen-containing gas with a treating solution containing an alkali metal hydroxide and a phenolic type oxidation catalyst, said oxidation catalyst being capable of promoting the chemical conversion of mercaptans to disulfides and imparting a discoloration to the doctor sweet petroleum product, and removing said discoloration by contacting said treated hydrocarbons with an aliphatic alkanolamine containing alkanol groups having 2 to 6 carbon atoms.

2,589,451

METHOD OF FORMING CIRCULAR CUTTERS

Milton J. Steffes, Dearborn, Mich., assignor to Super Tool Company, Detroit, Mich., a corporation of Michigan

Application January 24, 1947, Serial No. 724,148
3 Claims. (Cl. 51—288)



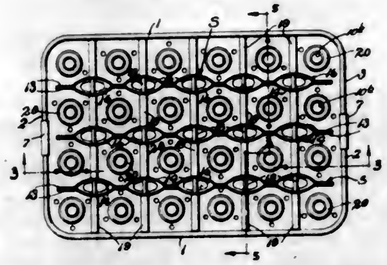
1. The method of forming a circular cutter from a hard metal blank of a generally washer shape comprising the steps of dressing the opposite flat sides of said blank in a flat parallel relation to provide a desired dimension therebetween, of lapping the central opening of said blank to a desired diameter; of lapping opposite sides of the outer periphery of said blank to form shoulders which define a central hub having a circular flange extending outwardly thereon; and of forming circumferentially spaced cutting teeth on the outer periphery of the flange.

2,589,452

BOTTLE CARRIER

Ralph W. Stevenson, Grand Rapids, Mich., assignor, by mesne assignments, to Metal Carrier Corporation, Grand Rapids, Mich., a corporation of Michigan

Application October 19, 1948, Serial No. 55,344
2 Claims. (Cl. 220—21)



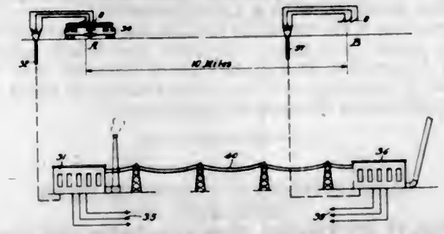
1. In a bottle carrier of the type having a bottom and a wall surrounding said bottom to provide a bottle-receiving basket, a plurality of separators extending in one direction in said carrier to provide a plurality of bottle-receiving rows, said separators being anchored to said bottom and in spaced relationship with said wall, said separators further having aligned strut-receiving openings adjacent their upper edges, struts anchored relative to the wall of said carrier and received in said openings, said struts being oriented substantially transversely of said separators to provide a plurality of bottle-receiving compartments, said separators having complementary resilient dished-out portions surrounding said openings, and sleeves disposed about said struts in the regions between said separators and between the end separators and said wall and snugly seated against the same, said sleeves bottoming against the dished-out portions of the separators.

2,589,453

ELECTRIC VEHICLE RUNNING BETWEEN TWO CHARGING STATIONS WITHOUT A CONTACT-LINE

Bjarne Storsand, Zurich, Switzerland, assignor to Maschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland, a Swiss firm

Application July 28, 1945, Serial No. 607,529
In Switzerland June 17, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires June 17, 1964
1 Claim. (Cl. 104—148)



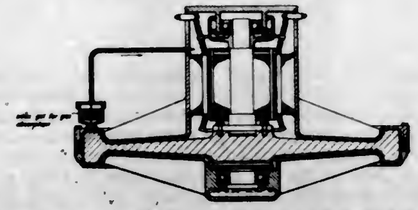
In an electrically driven vehicle having at least one traction wheel motor for propelling the vehicle, a closed casing filled with a gaseous medium having a pressure below the atmospheric pressure, an electrodynamic machine having an armature shaft and a flywheel connected to the shaft, thereby forming an electro-mechanical unit mounted in said closed casing, means adapted to supply said electrodynamic machine with electric current by stationary sources of electric current at the stopping points of the vehicle to operate said electrodynamic machine as a motor to drive said flywheel and store energy therein, said flywheel being adapted to operate said electrodynamic machine as a generator during the travelling movement of the vehicle to supply electric current to said traction wheel motor, said electrodynamic machine consisting of a three-phase squirrel cage machine without sliprings and without commutator and when operated as a generator being provided with capacitative field excitation.

2,589,454

FLYWHEEL ENERGY STORAGE SYSTEM, PARTICULARLY FOR ELECTRIC VEHICLES

Bjarne Storsand, Zurich, Switzerland, assignor to Maschinenfabrik Oerlikon, Zurich-Oerlikon, Switzerland

Application October 15, 1948, Serial No. 54,742
1 Claim. (Cl. 171—252)



In an energy-storing system, an electrodynamic machine having a field structure, windings, and a rotatable armature, a flywheel secured to the armature at one end of the electrodynamic macine and extending with its circumference a considerable distance beyond the machine, a hermetically sealed housing enclosing the electrodynamic machine and extending radially outward thereof to enclose the flywheel, the housing being filled with a gas lighter than air, and conduit means external to the housing connecting an outward portion of the housing at the periphery of the flywheel and a portion of the housing at the end of the armature opposite to the end thereof secured to the flywheel, the conduit means serving for the circulation of the gas in the housing and containing a substance for absorbing hydrocarbon vapors released from insulating substances on the windings of the machine during its operation.

2,589,455

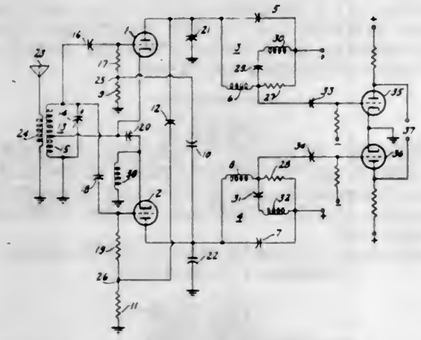
REFLEX SUPERREGENERATIVE RECEIVER

Joseph C. Tellier, Penn Wynne, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

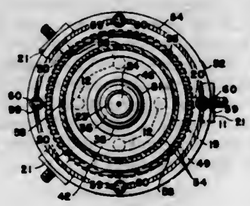
Application September 5, 1946, Serial No. 695,017
6 Claims. (Cl. 250—20)

1. In a superregenerative receiver of angular-velocity modulated carrier wave signals, a tank circuit resonant at a relatively high frequency and supplied with said modulated signals, a first oscillator comprising said tank circuit together with a vacuum tube and first means coupling said tank circuit to said vacuum tube, a second oscillator comprising said tank circuit and another vacuum tube together with second means coupling said tank circuit to said other vacuum tube, each of said tubes having at least triode elements,

means included in said coupling means for causing said first and second oscillators to oscillate at different frequencies respectively above and below said carrier frequency, a third oscillator comprising said tubes and a pair of tuned circuits, each tuned to a frequency lower than said first resonant frequency and each connected in the plate circuit of one of said tubes, said tuned circuits cooperating with said tubes to produce oscillations at a relatively low frequency as determined by said tuned circuits so as to render said tubes alternately conducting, whereby said separate oscillators are rendered alternately and intermittently operative as superregenerative amplifiers, means included in the plate circuits of each of said tubes for deriving outputs from said separate oscillators, and means combining said outputs to yield a signal which varies in substantial accordance with the frequency deviation of said modulated carrier.

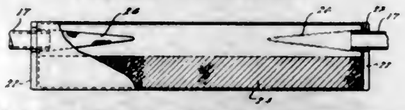


2,589,456
STATIC TRUCK WHEEL BALANCER
Charles W. Tinkham, Baltimore, Md.
Application December 2, 1947, Serial No. 789,187
4 Claims. (Cl. 73—66)



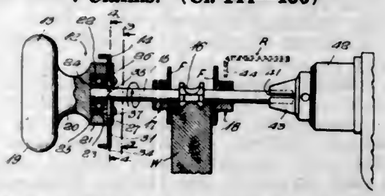
4. In a wheel balancing machine, in combination, a pedestal, a hood surrounding said pedestal, means carried by said hood for adjusting its balance on the pedestal, a column inserted in said hood and fastened thereto and engaging the pedestal so as to be erect thereon when the hood is properly balanced thereon, level indicating means carried by said column, a supporting plate, means for supporting said plate on the column, said means including a collar adjustable on said column, and an annular plate carried by said supporting plate, said last mentioned plate having means for holding a wheel disc thereon in centered position, said wheel disc holding means on said annular plate comprising a plurality of circularly arranged removable and replaceable thimbles to support wheel discs of different sizes.

2,589,457
REFRIGERANT SEPARATOR AND DEHYDRATOR
Jens K. Touborg, Tecumseh, Mich., assignor, by mesne assignments, to Tresco, Inc., a corporation of Michigan
Application December 16, 1946, Serial No. 716,633
7 Claims. (Cl. 183—4.0)



1. A separating and dehydrating unit including, in combination, an elongated tubular casing having a vertical diameter greater than the horizontal diameter and having sealed end walls, inlet and outlet ports at the ends of said casing above the longitudinal axis thereof, screens covering said ports, and dehydrating material filling the lower portion of said casing when said casing is positioned with its longitudinal axis disposed horizontally.

2,589,458
WOODWORKING HAND POWER TOOL
August L. Toussaint, Elmhurst, Ill.
Application May 9, 1949, Serial No. 92,214
7 Claims. (Cl. 144—136)

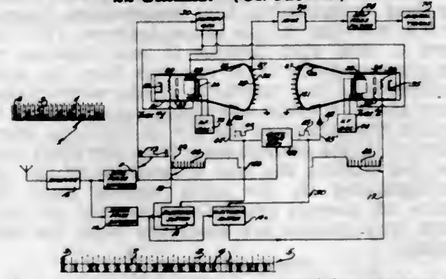


1. A wood working hand power tool consisting of a hand grip piece having a lateral extension, an antifriction bearing mounted in the hand grip piece, a slide locking means carried by the hand grip piece, an arbor having a cutter thereon intermediate its ends, the arbor being in the form of an elongated shaft with one end of the shaft detachably rotatably positioned in and supported by the bearing in the hand grip piece, the other end of the arbor being of a size and shape to be detachably coupled to a power driven shaft and rotated thereby, and adjustable guide means on the arbor at opposite sides of and spaced from the cutter, the arbor being entirely free from obstruction except for the parts referred to permitting the arbor and cutter thereon to be disposed close to a work piece, and that end portion of the arbor that is mounted in the hand grip piece being provided with a circumferential groove cooperating with the slide locking means carried by the hand grip piece, whereby the arbor carrying the cutter and guide means thereon may be readily disconnected from the hand grip piece by manipulating the said locking means.

2,589,459
PRODUCTION OF SURFACED CORE MATERIAL
Victor H. Turkington, Mountain Lakes, and Leon Shechter, East Orange, N. J., assignors, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
No Drawing. Application September 4, 1946, Serial No. 694,826
7 Claims. (Cl. 154—95)

6. Process of making a surfaced core material which comprises filming on a surface a composition comprising a heat and oxygen hardenable resinous polyhydric alcohol ester of solely a diene monobasic acid having from two to four conjugated double bonds in the chain and one of these in conjugation with the acid carbonyl and a polyhydric alcohol selected from the group of polyhydroxyalkanes and polyhydroxyoxaalkanes, partially curing the film to a dry-to-touch state, removing the partially cured film from the surface by pressing the film into contact with the core to be surfaced, and completing the cure of the composition in contact with the core.

2,589,460
ELECTRONIC COMMUTATOR
William G. Tuller, Arlington, Va., assignor to Melpar, Inc., Alexandria, Va.
Application June 18, 1948, Serial No. 33,708
22 Claims. (Cl. 315—9)



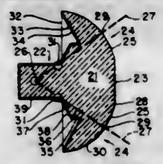
1. A commutator tube comprising means for generating a beam of electrons, a continuous secondary electron emissive coating of high resistivity material located in the path of said beam of electrons, means for scanning said beam of electrons across said secondary electron emissive surface, means for modulating the intensity of said beam of electrons, and a plurality of collector electrodes each electrically conductively insulated from said secondary electron emissive surface and in electro-statically coupled relation therewith.

2,589,461
ELIMINATING CORROSION DUE TO GALVANIC CURRENT SET UP BY DISSIMILAR METALS IN THE PRESENCE OF AN IONIZED SOLUTION
Peter W. Uhl, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 26, 1949, Serial No. 117,916
7 Claims. (Cl. 123—41.71)
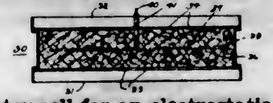


1. An internal combustion engine having a water cooling system including a cooling water manifold of aluminum and a cast iron engine part with a cooling water passage therein, a copper-copper oxide rectifying gasket between the aluminum manifold and water passage in the cast iron engine part, a layer of tin foil contacting one face of said rectifying gasket and aluminum and a second layer of tin foil contacting the other face of said rectifying gasket and the cast iron.

2,589,462
DOLL'S EYE
John O. Wagner, Palisade, N. J.
Application August 6, 1949, Serial No. 109,000
6 Claims. (Cl. 46—165)



1. In a doll's eye, of the type comprising a body portion of transparent material, said body portion comprising on its rear surface portions representing the pupil, iris, and white of the eye, said body portion comprising a hemispheroid front surface, the improvement comprising a substantially flat portion located substantially front centrally of said front surface.

2,589,463
ELECTROSTATIC PRECIPITATOR
Ray W. Warburton, Medfield, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 31, 1950, Serial No. 165,287
1 Claim. (Cl. 183—7)

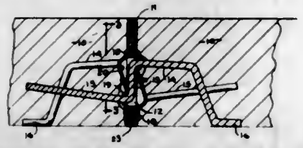


A collector cell for an electrostatic precipitator comprising a frame defining a gas passage having open ends, a first plurality of spaced apart wires having parallel axes extending substantially in a common plane across one of said ends, a second plurality of spaced apart wires having parallel axes extending substantially in a common plane across the other of said ends, a third plurality of spaced apart wires having parallel axes extending substantially in a common plane across said passage midway between the planes of said first and second pluralities, said planes being substantially parallel to each other, said wires having relatively low electrical resistances, and intermeshed electrically conductive filaments having relatively high electrical resistances filling the space between the wires of said first and third pluralities, and the space between the wires of said second and third pluralities, and means for applying a direct current electrical potential to the wires of said third plurality, and for applying a direct current potential having the opposite polarity to said first mentioned potential to the wires of said first and second pluralities.

2,589,464
DOWEL STRUCTURE
Elmer J. Webb, Newark, N. Y.
Application September 20, 1947, Serial No. 775,255
2 Claims. (Cl. 94—18)

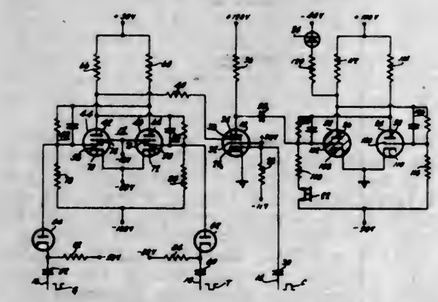
1. A pavement joint dowel structure supporting adjacent slabs of concrete comprising a

spacer strip positioned between the confronting ends of the slabs and having an opening intermediate the upper and lower edges thereof, a plate arranged on each side of the strip in register with said opening and forming a closure therefor, said plates being embedded in the confronting faces of the slabs respectively and each of said plates being formed with a pair of apertured protrusions arranged in vertically spaced relation and extending into the slabs and merging with the plates on an arc, a pair of dowel rods, each having lateral portions extending in opposite directions from a medial portion and being joined thereto on an arc having a radius greater than the radii of said protrusions, said rods being positioned with their medial portions extending vertically in



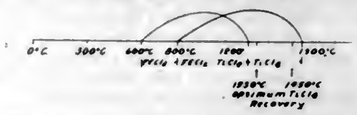
the opening in the spacer strip and with their arcs engaging the arcs of said protrusions and with their lateral portions extending through said apertured protrusions in the plates, one of said rods having a lateral portion extending through the lower protrusion in one plate and the other rod of said pair having a lateral portion extending through the upper protrusion in said plate, the other lateral extensions of said pair of rods extending through the extrusions of the other plate in the reverse order, and each of said plates being formed with a recess arranged in register with the apertured protrusion in the other plate and forming a space within which to permit movement of the medial portions of said rods during expansion of said slabs.

2,589,465
MONITORING SYSTEM
James Robert Weiner, Philadelphia, Pa., assignor to Eckert-Mauchly Computer Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application October 22, 1949, Serial No. 122,881
8 Claims. (Cl. 177—311)



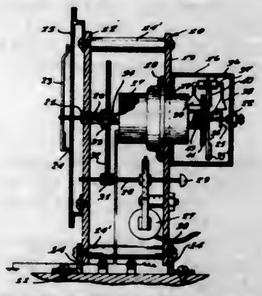
1. In combination, first, second and third signal input lines adapted to respectively receive external excitation, an indicating device, a signal transfer link operatively connected between said third signal line and said indicating device, and apparatus conditioning said signal transfer link for passage of signals in response to excitation of said first signal line and disabling said signal transfer link in response to excitation of said second signal line.

2,589,466
PRODUCTION OF TITANIUM TETRACHLORIDE
Barnard Wilcox, Wallace, Idaho
Application March 6, 1950, Serial No. 147,851
5 Claims. (Cl. 23—87)



1. The process of removing titanium as titanium tetrachloride from ilmenite ore which comprises heating the ore to a temperature above 1250 degrees C. but below 1500 degrees C., separately heating chlorine to a temperature above 1250 degrees C. but below 1500 degrees C. then bringing the chlorine and ore together in a reaction chamber and maintaining the temperature thereof during reaction in the range between 1250 degrees C. and 1500 degrees C. and drawing off the gaseous products of reaction from the solid residue while the residue is within said temperature range, thereby selectively removing the titanium component of the ore as titanium tetrachloride in the effluent state from the solid residue and leaving the iron component of the ore unchlorinated in the solid residue until the drawn off gaseous products containing the titanium tetrachloride are separated from the solid residue.

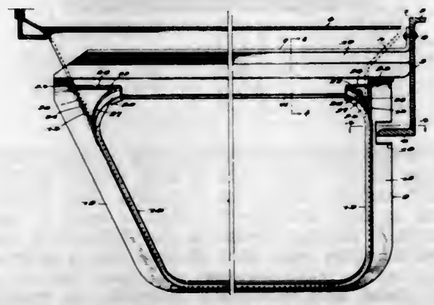
2,589,467
INDICATING DEVICE FOR REGULATION OF TIMEPIECES
Elza E. Wiford, Sidney, Ohio
Application November 28, 1947, Serial No. 788,444
3 Claims. (Cl. 73—6)



1. An indicator device for use in regulating timepieces comprising a hollow main housing including front and rear walls, a subsidiary housing arranged exteriorly of and secured to the rear wall of said main housing and in communication with the latter housing, an electromagnet positioned within said main housing and supported in the rear wall of the latter housing and extending into the subsidiary housing, a shaft positioned within said main and subsidiary housings and rotatably journalled on the front wall of said main housing and the rear end of said subsidiary housing and having one end projecting from said front wall, an indicator positioned exteriorly of said front wall of said main housing and secured to said one end of said shaft, a cam positioned within said subsidiary housing and fixedly secured to said shaft, an arm disposed transversely of said shaft and rotatably mounted intermediate its ends within said subsidiary housing coaxial with and independent of said shaft, a first contact member positioned contiguous to said electromagnet and said arm and mounted on one end of said arm for

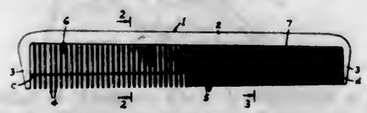
rotary movement toward said electromagnet upon energization thereof, a second contact member connected to said first contact member and mounted on said one end of said arm for movement toward and into engagement with said cam in response to the rotary movement of said first contact member, motive means operatively connected to said arm for rotating the latter at a predetermined rate, and manually actuated means electrically connected to said electromagnet for energizing the latter at intervals synchronous with the ticking of the timepiece to be regulated, said cam and said second contact member being disposed relative to one another.

2,589,468
DOOR FRAME FOR RAILWAY HOPPER CARS
William E. Wine, Parker, Va.
Application March 16, 1948, Serial No. 15,204
3 Claims. (Cl. 105—249)



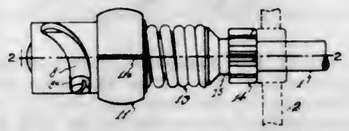
1. A door frame for a railway hopper car including a hinge butt member having an outwardly projecting flange, said flange engaging the upper portion of a cooperating door pivotally associated with said frame, and an angular member secured to said hinge butt and forming the sides and bottom of the frame, said angular member having a leg adapted to be secured to side and bottom sheets of a hopper and terminating in an outwardly projecting portion affording with the flange of said hinge butt a sealing flange for cooperating with the said door, said outwardly projecting flange of said angular member being disposed inwardly of the portion of said angular member forming the outer side of the frame, said sealing flange being severed from each leg adjacent the outer upper corner of said frame and being curved inwardly, the inner end of said curved portion being welded to the adjacent portion of said flange of the hinge butt, and a plate secured to the curved portion of each of said legs, said plates serving to close the corner openings of said frame adjacent the ends of said hinge butt.

2,589,469
COMB
John Zerbo, Bronx, N. Y.
Application March 27, 1950, Serial No. 152,090
1 Claim. (Cl. 132—18)



A comb, comprising a frame that includes a main longitudinal and opposing off-set, tooth-like end members integrally united thereto and lying in the same plane therewith, a series of hair-dressing teeth all lying in a plane that includes the longitudinal axis of said main longitudinal and also the longitudinal axes of the end members; and webs intermediate and integral with adjacent teeth and having blunt lower ends said webs having on both sides thereof hair-alining and hair-smoothing grooves of arcuate cross-section extending the entire length thereof and said webs extending at least about two-thirds of the length of the adjacent teeth.

2,589,470
ENGINE DRIVING MECHANISM
Rollin Abell, Chatham, Mass.
Application January 25, 1951, Serial No. 207,732
12 Claims. (Cl. 74—9)



1. An engine starter including an operating shaft, a sleeve slidably mounted on said shaft and having a flange spaced a suitable distance from one of its ends, a pinion fastened to one end of the sleeve at a relatively short distance from said flange for engaging a starting gear on an engine, a single longitudinally coiled spring frictionally mounted on said sleeve and having one end engaging said flange on the side away from said pinion, a tubular member having one end frictionally embracing a part of said spring turns away from said flange while its opposite end has diametrically positioned cam slots therein, a driving member fastened to the free end of the driving shaft and having trunnions positioned in said cam slots for the purposes described.

2,589,471
CABLE OUTSIDE INSULATION STRIPPER
Ernest I. Ayers and Harley M. Ayers, Martinsville, Ind.
Application December 30, 1950, Serial No. 203,695
6 Claims. (Cl. 30—91)

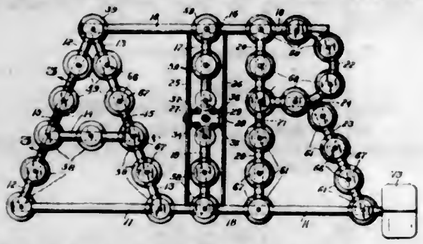


1. A tool for slitting outside insulation from a cable carrying within that insulation an inner separately insulated pair of conductors wrapped around by a third or neutral conductor, comprising a roller having a thin section with a rounded edge as the periphery of the section; a second roller having a central outwardly curving, bulging waist portion; means for mounting the two rollers in relation one to the other whereby the plane of said section includes a diametrical plane centrally through said waist portion.

2,589,472
AERIAL DISPLAY APPARATUS
Elliott T. Belmont, Boston, Mass.
Application February 19, 1947, Serial No. 729,455
1 Claim. (Cl. 40—127)

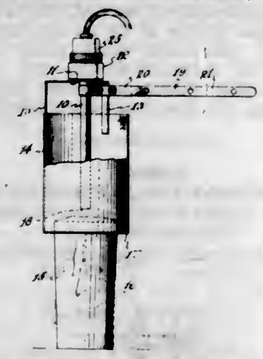
An aerial display apparatus comprising an aerostat and a cable by means of which said

aerostat is anchored to the ground, said aerostat comprising a rigid metallic tubular frame having sections thereof disposed to delineate letters; a plurality of balloons fastened to said frame and occupying positions above the latter, said balloons being filled with lighter-than-air gas and communicating with the interior of the frame which is also filled with lighter-than-air gas; a plu-



rality of electric lamps fastened to the under side of said sections of the frame and also serving when illuminated to delineate said letters; a circuit for supplying electric current to said lamps, and a plurality of reflectors carried by said frame each of which is associated with one of said lamps so as to reflect downwardly light that radiates therefrom.

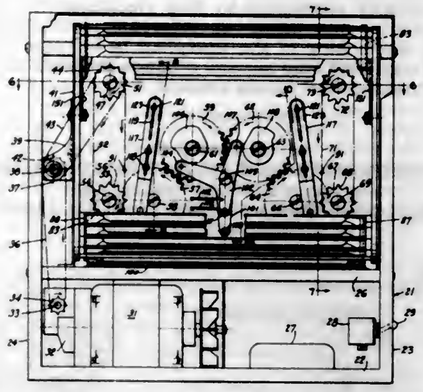
2,589,473
IMMERSION HEATER
Charles Bellucci, Jersey City, N. J.
Application April 28, 1950, Serial No. 158,895
4 Claims. (Cl. 219—41)



1. An immersion type heater suitable for heating liquids in open-top containers, which comprises electrical heating means having a casing, a handle attached to said casing near the upper end thereof, said handle comprising a heat-conducting portion in contact with and adjacent said casing and a non-heat-conducting portion, and a perforated, hollow cylindrical member, integrally united with said casing and handle, said cylindrical member surrounding said container when said heater is placed therein.

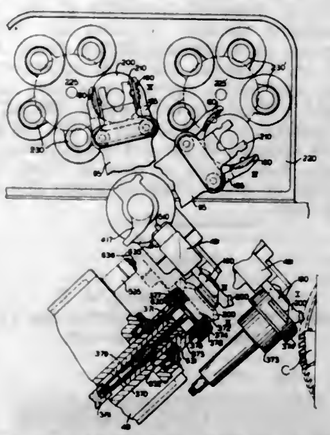
2,589,474
ADVERTISING DEVICE
Hosmer L. Blum, Burlingame, Calif., assignor to L. Chace Grover
Application September 23, 1950, Serial No. 186,466
5 Claims. (Cl. 40—36)

1. In a display device containing a show window and comprising a plurality of overlapping compacted displays, movably restrained in and partially filling a closed circuit therefor, motor driven means to move said displays one at a time along the empty portion of said circuit, each of said display devices being mounted on a carrier having a U-shaped back having a pair of spaced slots in one leg on said U-shaped back, said means comprising a pair of flexible chains movable over like paths extending across the empty portion of said circuit, a pin on each chain movable through a slot in a carrier to engage a flange on the U-back thereof to move that dis-



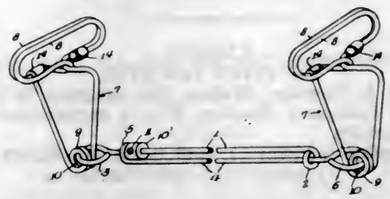
play device uppermost on one side of said empty portion to the other side of said empty portion of said circuit, means for retaining that display device against movement which is next to said uppermost display device, a pair of wheels operated in time with said chains, and a pair of pusher arms each engaged with and moved by each wheel and extending upwardly to engage the underside of a flange on a U-shaped carrier on the other side of said empty portion.

2,589,475
MACHINE FOR PRODUCING GEARS
Leonard O. Carlsen, Rochester, and Norman W. Fowler, Brighton, N. Y., assignors to Gleason Works, Rochester, N. Y., a corporation of New York
Application April 21, 1948, Serial No. 22,436
12 Claims. (Cl. 90—1)



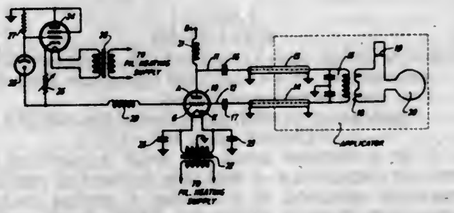
1. In a machine, a work support, a magazine adapted to hold a plurality of blanks, a second magazine adapted to hold a plurality of finished work pieces, a transfer arm, means on the transfer arm for gripping a work piece, means for moving the transfer arm from registry with the work support to registry with the second magazine and then to registry with the first magazine and then back to registry with the work support again, and means for actuating the gripping means during said movement of the transfer arm so that it grips a completed work piece when the arm is first in registry with the work support, releases that work piece when the arm is in registry with the second magazine, grips a blank when the transfer arm is in registry with the first magazine, and releases the blank when the transfer arm is again in registry with the work support.

2,589,476
BEDCLOTHES HOLDER
Charles L. Casey, Riverside, Ill.
Application February 23, 1950, Serial No. 145,841
3 Claims. (Cl. 24—72.5)



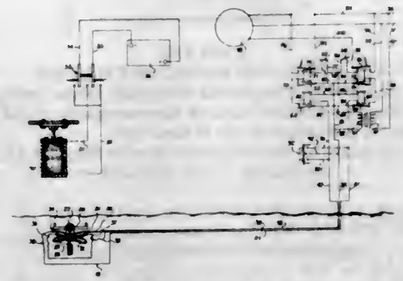
1. A bedclothes holder comprising a pair of parallel rods, each of said rods terminating at its opposite ends in loops, one loop of each rod loosely encircling the other rod to permit one rod to be shifted in directions substantially parallel to the other rod whereby the over-all length of said rods may be adjusted, a clamp member carried by the other loop of each rod, each clamp member including a pair of opposed jaws and means for normally maintaining said jaws in clamping position, said rods adapted to be positioned transversely under the mattress of a bed and extended to a length such that said clamp members are disposed outwardly of the opposite sides of the mattress, whereby the jaws of each clamp member may be spread manually and then released to clamp therebetween a part of at least one article of bedcovering to hold the latter in proper position on a bed.

2,589,477
OSCILLATION GENERATOR SYSTEM
Richard P. Corporon, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 28, 1946, Serial No. 657,697
14 Claims. (Cl. 250—36)



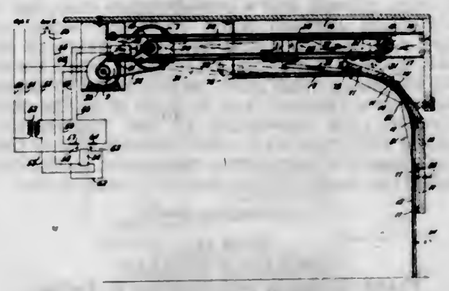
1. The method of maintaining constant the direct grid current of a radio frequency vacuum tube oscillator which comprises passing said current through a space discharge path and a resistor in series therewith, and utilizing the voltage drop across said resistor to continuously vary the resistance of said path in such sense and magnitude as to maintain said direct current constant despite changes in radio frequency excitation voltage on the grid of said oscillator tube.

2,589,478
GARAGE DOOR OPERATOR
Guy A. Curtis, Cleveland Heights, Ohio, assignor to United States Motors Corporation, Oshkosh, Wis., a corporation of Wisconsin
Application December 7, 1946, Serial No. 714,826
2 Claims. (Cl. 318—267)



1. In motor driven means for opening and closing a garage door, two electrical control circuits, a balanced switch assembly adapted to be buried in the pavement in front of said door, said assembly comprising a pivotally mounted bar magnet and switch means secured to said magnet responsive to movement of the latter about its pivot in one direction or the other for selectively closing either one of said circuits, an electromagnet adapted to be suspended from an automobile and means for reversing the current through said magnet for tilting said bar magnet in one direction or the other, and means responsive to current in one or the other of said circuits for energizing said motor driven means for opening or closing said door.

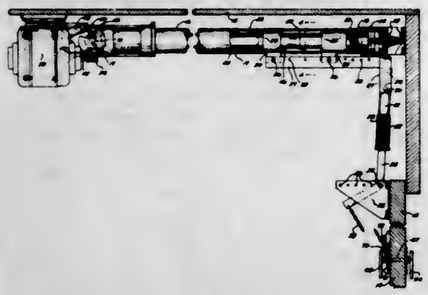
2,589,479
DOOR OPERATOR
Guy A. Curtis, Cleveland Heights, Ohio, assignor to United States Motors Corporation, Oshkosh, Wis., a corporation of Wisconsin
Application August 31, 1948, Serial No. 46,956
1 Claim. (Cl. 268—59)



Door operating mechanism comprising a straight hollow guide, a pair of sprocket wheels disposed within said guide near the ends thereof, an electric motor for turning one of said sprocket wheels in a given direction only, an endless chain running over said sprocket wheels within said

guide, a two-sectional carriage slidable in said guide, a projection on one section of said carriage adjacent one run of said chain, a projection on the other section of said carriage adjacent the other run of said chain, said projections being spaced apart a substantial distance longitudinally of said guide, means adjustably connecting said sections of the carriage for varying the spacing relationship of said projections, a link connected to said carriage and adapted to be attached to a sliding door, and a transverse pin on said chain adapted to engage one of said carriage projections for pushing the carriage in one direction when travelling in one run of the chain and to engage the other of said projections for pushing the carriage in the opposite direction when travelling in the other run of the chain.

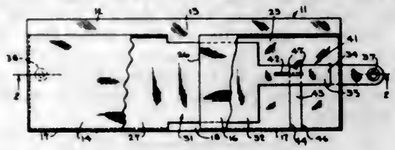
2,589,480
AUTOMATIC DOOR OPERATOR
Guy A. Curtis, Cleveland Heights, Ohio, assignor to United States Motors Corporation, Oshkosh, Wis., a corporation of Wisconsin
Application April 5, 1951, Serial No. 219,454
6 Claims. (Cl. 268—59)



2. In a door operating mechanism, a track having a straight section, a tubular, cylindrical guide disposed parallel to said straight section, first and second carriages slidable within said guide, a strap adjustably connecting said carriages in longitudinally spaced relation, a lever adjustably pivotally connected to said strap and adjustably pivotally connected to a door slidable on said track, a sprocket wheel mounted adjacent each end of said guide, an electric motor, a worm and worm wheel drive between said motor and one of said sprocket wheels for turning the latter in a given direction only, a clutch associated with said drive, an endless chain running over said sprocket wheels, and a protuberance mounted on said chain adapted when travelling along one flight thereof to engage said first carriage and push it in one direction and adapted when travelling along the other flight of the chain to engage said second carriage and to push it in the other direction, the movement of the protuberance around either sprocket wheel disengaging it from a carriage and permitting movement of the connected carriages independently of said chain.

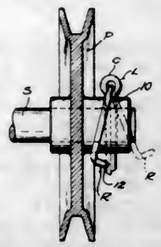
2,589,481
FOLDABLE WALLET
Frank G. Dobbs and Stephan H. Dobbs, New York, N. Y.
Application December 13, 1950, Serial No. 200,590
2 Claims. (Cl. 150—38)

1. In a foldable wallet, having an outer wall, an inner wall including a flap member and a stay member associated with said outer wall and extending across at least a portion of the flap member and being movable between two extreme opposite positions transversely relative to the latter, in combination with, means for guiding and fastening said members relative to each other while permitting said movement,



comprising elongated guide means on one member including a slot extending in the direction of said movement, and a resiliently yieldable elongated guide follower integral with the other member and extending therefrom and sliding in said slot to limit said movement yieldingly in either direction.

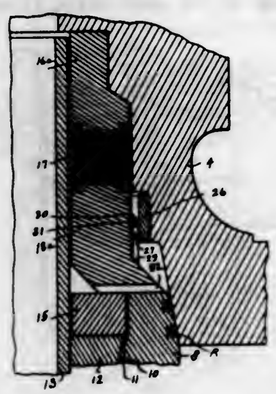
2,589,482
POSITIVE LOCKPIN
Wayne A. Downey, Moline, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application May 13, 1949, Serial No. 93,065
7 Claims. (Cl. 287—52.08)



1. A means adapted to secure a hub to a shaft each being provided with mutually aligned diametrical holes, comprising a split cotter pin adapted to fit said holes and having an eye at one end thereof, the other end of said pin protruding from said hub, an interrupted annular member pivoted freely in said eye and being of a diameter in excess of that of the said hub, the ends of said annular member terminating in loops lying in a plane angularly disposed to the plane of said annular member, said loops separated an amount less than the breadth of said cotter pin so as to resist free passage of said protruding portion therebetween when said annular member is pivoted about said eye and thereafter passes through a plane normal to the axis of said shaft.

2,589,483
WELLHEAD
John E. Eckel and Fritz Richard, Houston, Tex., assignors to Oil Center Tool Company, Houston, Tex., a corporation of Texas
Application April 6, 1946, Serial No. 660,208
7 Claims. (Cl. 166—14)

1. In a tubular head for wells a packing assembly comprising, a seal ring formed of resilient material adapted to surround a casing in said head, an annular abutment fixed above and in contact with said ring, a compression ring beneath and supporting the seal ring, a ring nut adapted to be threaded into said head and surrounding the compression ring, said compression ring and nut having a splined connection whereby they may be rotated as a unit and means for

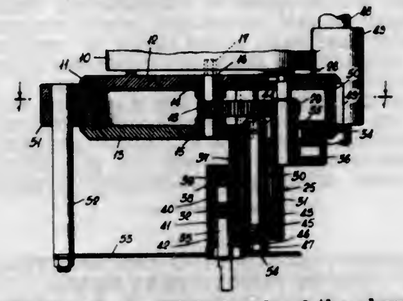


maintaining the ring nut and compression ring together.

2,589,484
MULTIPLE STAGE ANCHORING DEVICE
Raymond Ecuer, Valentigney, France
Application April 17, 1951, Serial No. 221,350
In France January 29, 1951
7 Claims. (Cl. 85—2.4)

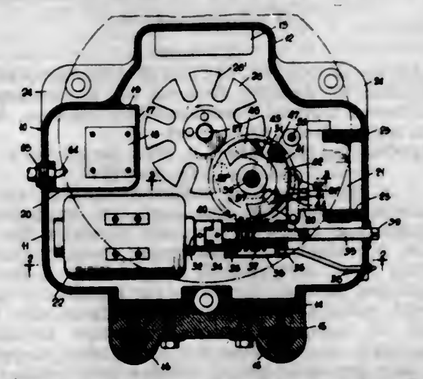
1. An anchoring device comprising a hollow metallic cylinder longitudinally split to provide a plurality of lengthwise segments which are normally assembled to form the said cylinder, said segments being cut away along their adjoining edges at a plurality of vertically spaced areas to provide the cylinder wall with a plurality of apertures having downwardly tapered portions to form inwardly inclined planes, a rod disposed in the cylinder and vertically movable with respect thereto, cams on said rod spaced to correspond to said apertures and capable of downward movement therein in cooperation with said inclined planes for expanding said cylinder, the cams and apertures being dimensioned to enable each succeeding cam to have an idle movement equal to the complete distance of travel of the preceding cam and said rod being provided with a reduced and weakened portion intermediate its ends between a pair of said cams.

2,589,485
VARIABLE MULTIPLE HEAD
Melvin H. Emrick, Jamaica, N. Y.
Application June 5, 1948, Serial No. 31,252
4 Claims. (Cl. 74—665)



1. In variable multiple heads of the character described, a casing including an integral bottom wall, a main drive shaft having a fixed position in the casing, a plurality of tool operating units, means for simultaneously driving all of the units from said main drive shaft, each unit comprising a supplemental drive shaft having a fixed position in the casing, a flanged disc rotatably adjustable in and supported by said bottom wall of the casing, the flange of said disc seating on said bottom wall, an idler shaft mounted in said disc and adjusted around the axis of the supplemental drive shaft by said disc, a tool supporting member rotatably adjustable around the idler shaft, a gear train on said shafts and member for operating said member, each unit comprising a housing rotatable about the supplemental drive shaft of the unit and another two-part housing rotatable about said idler shaft, means on said idler shaft engaging said last named housing for retaining the housings and disc in assembled relationship with each other and with the casing, and other means on said idler shaft engaging said last named housing independently of the last named means for fixing said housings and disc in firm engagement with the casing in retaining the tool supporting member in a fixed position of adjustment.

2,589,486
INDEXING MECHANISM
Melvin H. Emrick, Jamaica, N. Y.
Application February 11, 1949, Serial No. 75,770
7 Claims. (Cl. 90—56)



1. An index fixture of the character described comprising a casing, a table mounted for intermittent rotary movement on said casing, an indexing mechanism within the casing for inter-

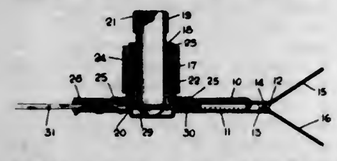
mittently actuating said table and to key the table in a plurality of indexing positions, said indexing mechanism including an electric motor, means comprising a switch automatically actuated by said indexing mechanism to break the circuit to said motor in intermittently stopping actuation of said mechanism, means comprising a switch externally of the casing for completing the circuit to said motor to actuate said indexing mechanism, the table keying means of said mechanism comprising a pin, a cam for moving said pin into operative position, tensional means for moving said pin into inoperative position and adjustable means adjacent the pin, checking movement of said pin into inoperative position.

2,589,487

DEVICE FOR FORMING AND APPLYING BOBBY PINS TO FLAT CURLS

William F. Feyrer, Englewood, N. J., assignor to Nathan L. Solomon, Englewood, N. J.

Application June 23, 1949, Serial No. 100,844
5 Claims. (Cl. 132—33)



1. A device for forming and clamping flat curls, said device comprising a pair of pivotally coupled elongated jaw members, side edge portions of said jaw members being in common alinement and in abutting relationship in the normal position thereof, at least one of said jaw members having shoulder forming means adjacent said side edges adapted to aline a pair of bobby pins with said side edges when said pins are mounted on said device in clamping engagement with outer surfaces of said jaw members, a curl forming element rotatably mounted in one jaw member and having a notched hair engaging portion registering with bearing forming means in the other jaw member, and bobby pin ejector means movably supported on said device and adapted in one position thereof to extend laterally beyond said shoulder forming means and to the said edges of said jaw members, whereby bobby pins supported on said device can be laterally displaced therefrom into clamping engagement with a flat curl formed between said jaw members.

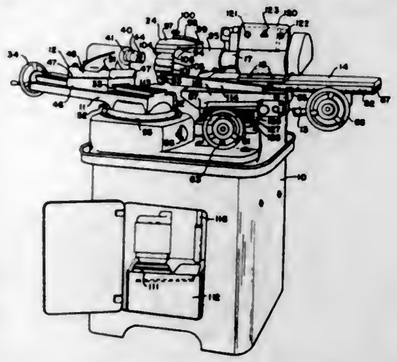
2,589,488

LENS GRINDING METHOD AND MACHINE

William D. Fowler, Geneva, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York

Application November 19, 1948, Serial No. 61,093
7 Claims. (Cl. 51—124)

3. A lens grinding machine adapted for the generation of toric lens surfaces, comprising a supporting base, a turntable mounted on said base for oscillatory movement about an axis of swing fixed with respect to said base, a carriage mounted on said turntable for rectilinear movement radially toward and away from said fixed axis of swing, a second carriage adjustably mounted on said base for rectilinear movement in two mutually perpendicular longitudinal and transverse directions, a cup type grinding wheel having an arcuate working surface on its annular edge mounted for rotation on one of said carriages, driving means for rotating said cup wheel, and a lens blank holder non-rotatably mounted on the other of said carriages, said cup wheel and said lens blank holder having their axes located in the same plane normal to said



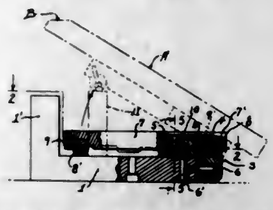
fixed axis of swing, whereby the shapes of both the base curve and the cross curve of the generated toric lens surface are determined solely by said longitudinal and transverse adjustments and the dimensions of said cup wheel.

2,589,489

COMBINATION WORK POSITIONING AND HOLDING TOOL FOR LAYOUT AND LIGHT FINISHING OF WORK

Henry Fuhr, Milwaukee, Wis.

Application November 25, 1949, Serial No. 129,444
1 Claim. (Cl. 51—217)



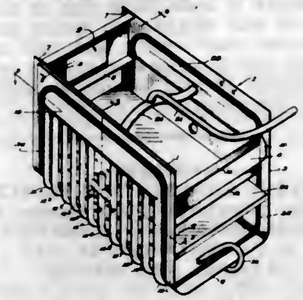
A work holder for grinders or the like comprising a rectangular base block terminating at one end with a right-angularly disposed short jaw, a pair of spaced transversely aligned bearing boxes secured to the opposite end of the base block and having journal apertures therein, a sine-plate having a tail piece fitted between the bearing boxes, a circular rod seated in the rear portion of the tail piece and secured to the plate, the circular rod being provided with projecting ends fitted into the journal apertures of the bearing boxes, the bearing boxes each being split for a predetermined distance from said journal apertures to open out on a transversely enlarged opening extending parallel to said journal apertures to permit yield, a pair of bolts each extending through the split portion of a bearing box for contracting the boxes about the circular rod when the sine-plate is adjusted at an angle relative to the base block, a second circular rod partially embedded in the front portion of the sine-plate and secured to the under-surface thereof, and a supporting foot seated upon the face of the base block and engaging the surface of the second circular rod, the base block being adapted to rest horizontally upon its lower surface or vertically upon the outer surface of the right-angularly disposed jaw, whereby various angles may be obtained for positioning the work piece.

2,589,490

EVAPORATOR FOR HOUSEHOLD REFRIGERATORS

Harry A. Goldberg, Chicago, Ill., assignor to Standard Refrigeration Company, Chicago, Ill., a corporation of Illinois

Application September 11, 1948, Serial No. 48,918
7 Claims. (Cl. 62—126)



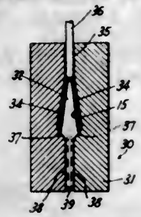
1. An evaporator comprising a pair of sheets arranged face to face and bent in the form of a U, forming a bottom and side legs, one of said sheets being embossed to provide a main passage between the sheets and forming a single manifold for the reception of refrigerant, a hollow header at the upper end of each leg, a discharge line connecting said headers, a plurality of spaced conduits leading from said single manifold and terminating at said headers, said manifold having a passage increasing in cross-sectional area from one end to the other.

2,589,491

STAPLE SETTING APPARATUS AND METHOD

Charles B. Goodstein, New Rochelle, N. Y.

Application July 31, 1946, Serial No. 687,415
2 Claims. (Cl. 1—2)



1. Apparatus of the character described comprising a body formed with a chamber having divergent surfaces for supporting the legs of a V-shaped staple received in said chamber, a passage above the chamber, a driver within said passage, a second passage below said chamber having parallel surfaces throughout its extent, said chamber having inwardly converging surfaces extending from said divergent surfaces toward the second passage whereby divergent legs of said staple in said chamber driven by said driver will be guided toward each other so as to cause said staple to be driven with parallel legs through said second passage.

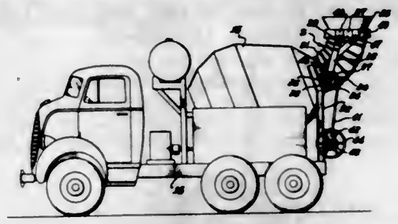
2,589,492

LOADING AND DISTRIBUTING MEANS FOR CONCRETE MIXERS

Russell C. Graham, Sierra Madre, Calif.

Application September 6, 1949, Serial No. 114,256
20 Claims. (Cl. 259—161)

1. In combination: a concrete mixing drum rotatable in either direction about a substantially horizontal axis, and having a charging and discharging opening therein; means in said drum responsive to rotation thereof in one direction for discharging concrete from the drum through said opening; a flexible spout coupled permanent-



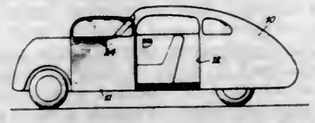
ly at one end to said drum at said opening for rotation with the drum; and means supporting the other end of said spout for rotation and various transverse movements independently of the drum.

2,589,493

SLIDING DOOR

William J. Henry, Jr., Knoxville, Tenn.

Application April 20, 1950, Serial No. 157,023
8 Claims. (Cl. 296—47)



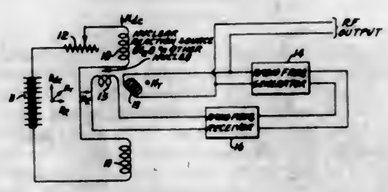
1. The combination with a vehicle body having a door opening, of a door for closing said opening, spaced parallel rails fixed on said body parallel to the longitudinal axis of the body, a carrier slidable along said rails, said carrier having spaced tubular members extending transversely of said axis, and rods slidably received in said tubular members, respectively, and secured to the door at the bottom on the inside thereof, the provision and arrangement being such that the door is mounted for sliding movement transversely and then parallel to said axis into an open position alongside of the body, and vice versa into a closed position in said opening.

2,589,494

STABILIZING METHOD AND SYSTEM UTILIZING NUCLEAR PRECESSION

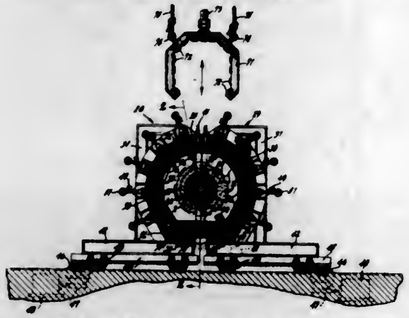
William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application July 20, 1948, Serial No. 39,792
29 Claims. (Cl. 250—36)



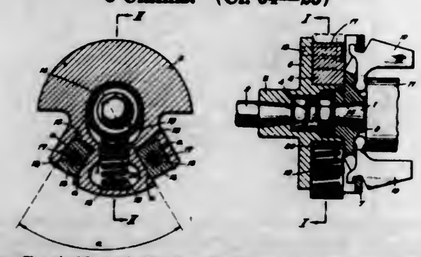
1. The method of stabilization which comprises applying a unidirectional field and an alternating field to a nuclear reaction source, and maintaining a constant ratio of the intensity of said unidirectional field to the frequency of said alternating field to effect continuous nuclear precession.

2,589,495
APPARATUS FOR HARDENING ROLLS
Frederic O. Hess, Philadelphia, and James Kniveton, Wyncote, Pa., assignors to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application January 10, 1948, Serial No. 1,564
3 Claims. (Cl. 263—4)



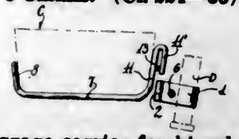
1. Apparatus for hardening a roll having a cylindrical portion and a journal portion projecting from each end of said cylindrical portion including a furnace comprising a pair of complementary semi-cylindrical portions forming a cylindrical chamber having a restricted opening in each end thereof, the cylindrical portion of the roll being received in said chamber with the journal portions projecting through the openings, a burner mounted in each of said portions, means through which fuel is supplied to said burners to heat the said chamber, separate means to mount each of said complementary portions for linear movement toward and from each other at right angles to the axis of the chamber whereby the portions of said furnace may be separated to receive said roll and closed while the same is being heated, horizontally disposed means located outside of said furnace upon which the journal portions of the roll are individually supported, means to rotate said supporting means, and, means to mount said supporting means for movement toward and from said journal portions whereby a roll can be placed between them and adjusted thereby.

2,589,496
CENTRIFUGAL REGULATOR FOR AUTOMATICALLY CONTROLLING THE ACTION MOMENT OF APPARATUS OF VARIABLE ROTATING SPEED
Josef Hövel, Köln-Bruck, Germany, assignor to Kleckner-Humboldt-Deutz A. G., Köln a. Rhein, Germany, a firm
Application December 20, 1950, Serial No. 201,724
In Germany December 27, 1949
8 Claims. (Cl. 64—25)



1. Centrifugal device for controlling the action moment of apparatus of variable rotary speed such as fuel injection pumps and ignition apparatus of internal combustion engines, comprising two coaxial aligned shafts having proximate respective ends, a fly weight surrounding one of said shafts and having a gravity center eccentric to the shaft axis, said weight having two lateral faces slanted toward each other, two members rigidly joined with said respective shafts and having respective counter faces engaging said two weight faces respectively for angularly shifting said shafts relative to each other due to centrifugal deflection of said weight, and spring means disposed between said weight and said one shaft at the shaft side opposite said gravity center and having relative to said weight a loading force opposed to the centrifugal force.

2,589,497
LUGGAGE CARRIER FOR BICYCLES
Louis Jette, Shawinigan Falls, Quebec, Canada
Application March 1, 1950, Serial No. 146,963
In Canada October 19, 1949
5 Claims. (Cl. 224—35)



1. In a luggage carrier for bicycles, an anchor member having two upstanding tube elements and a luggage support member comprising a horizontally extending main part having two spaced parallel upstanding arms, said arms having two downwardly projecting elements to engage said tube elements, and a transverse bar mounted on said arms to contact said tube elements.

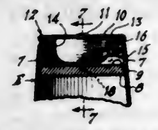
2,589,498
WARP TENSION COMPENSATOR
Karol Kulczycki and Walter D. Lowe, Jersey City, N. J., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey
Application November 1, 1949, Serial No. 124,882
12 Claims. (Cl. 139—115)



1. In a loom having a warp beam, a tension compensating mechanism for the warp comprising a roll over which the warp is adapted to pass in its passage from the warp beam towards the cloth being woven, an eccentric device mounted for eccentric movement about an axis, said eccentric device mounting said roll for movement therewith about said axis, and means for imparting a crank motion to said roll through said eccentric device in phase with the shed cycle to take up the slack in the warp while the shed is closing and to relieve the tension in the warp while the shed is opening.

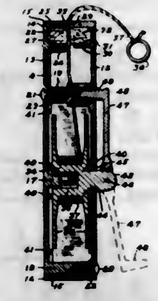
2,589,499
NEEDLE PULLING THIMBLE
Varnall Donald Lake, Oradell, N. J.
Application June 23, 1949, Serial No. 100,869
5 Claims. (Cl. 223—101)

1. A needle puller comprising a tubular body one end of which is formed to receive a finger, said body having opposite openings in its wall to receive a needle therethrough, a needle gripping block within said body having a needle bearing surface in alignment with said openings, a jaw at the other end of said body and cooperative with said block to grip a needle between them,



and a thumb piece for said jaw projecting from the second-mentioned end of the body for actuating the jaw, said thumb piece being a disk normally closing the second-mentioned end of said body.

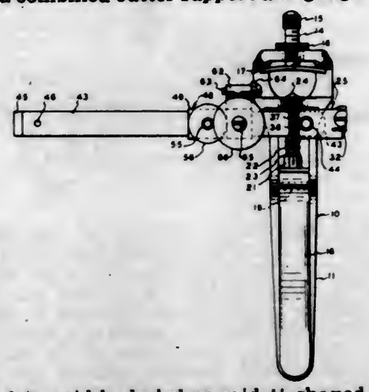
2,589,500
COMBINED CHALK-LINE BOX AND PLUMB BOB
Robert K. Landon, Costa Mesa, and John R. Thomson, Corona del Mar, Calif., assignors to Strait-Line Products, Costa Mesa, Calif., a corporation of California
Application September 19, 1949, Serial No. 116,488
1 Claim. (Cl. 33—217)



A chalk-line box having two opposed sides of generally pyriform outline, and connecting sides curved to follow said outline and perpendicular to said pyriform sides so as to form a box having a wide generally circular portion tapering gradually to an elongated but blunt end and tapering sharply to an opposite end, the blunt end of said box having an orifice; a spool mounted within said box, the axis of said spool being substantially at the center of said circular portion; a cord wound on said spool and emerging from said orifice; a well in one of said pyriform sides; and a crank for rotating said spool hingedly connected to said spool for arcuate movement in planes perpendicular to said pyriform sides and having a handle extending outwardly from said box when said crank is at one end of said arcuate movement, and inwardly toward said box at the other end of said movement, said crank having a length sufficient to permit said handle to rotate in a circle which encompasses said circular portion of said box and is intersected by said connecting sides towards both ends of said box, said well being disposed on said circle and adapted to receive said handle.

2,589,501
TILE CUTTER
Lino Lenarduzzi, Washington, D. C.
Application May 16, 1949, Serial No. 93,551
6 Claims. (Cl. 125—23)

1. A tile scoring and breaking tool comprising a body member having a head secured to the body member in such a manner as to provide a U-shaped opening between the head and the body, a handle member pivotally secured to the body and provided at its upper end with a cam element, a breaker bar supported in said body for endwise reciprocating movement and adapted to be moved toward said head by said cam, spring means normally biasing said breaker bar toward said cam, an adjustable support for tile to be broken comprising an arcuate plate curved toward said breaker bar, a screw shaft threaded supported through said head, said support being pivotally connected to the lower end of said screw shaft, a combined cutter support and gauge clamp



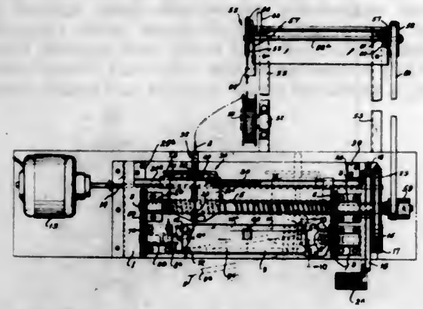
secured to said body below said U-shaped opening, a rotary cutter blade mounted in said cutter support and gauge clamp, a gauge rule pivotally supported in said cutter support and gauge clamp and adapted to be secured in operating position by means of said clamp, a combined cutter and breaker gauge including a U-shaped rule engaging portion, a clamp member supported by said U-shaped portion and adapted to cooperate therewith to clamp said U-shaped portion to said rule, means for operating said clamp, means on said gauge for engaging the tile during scoring and means on said gauge for engaging the tile during breaking.

2,589,502
LAMINATED SHEET FOR USE AS A WALL OR FLOOR COVERING
Joseph M. Lurie, Lewiston, Maine, assignor to Bonafide Mills, Inc., Lisbon, Maine, a corporation of Maine
Application April 14, 1947, Serial No. 741,237
4 Claims. (Cl. 154—49)



4. A laminated sheet for use as a covering for floors, walls and other surfaces comprising a preformed thermoplastic resinous sheet of a thickness of from .008 to .012 inches, comprising a copolymer of vinyl acetate and vinyl chloride bonded to one surface of a hard fibrous substantially incompressible fiber board of a thickness of from .020 to .030 inches and a resilient fibrous layer bonded to the undersurface of said fiber board and of a thickness substantially greater than the thickness thereof, said hard fiber board assisting in maintaining the resinous sheet in a substantially plane condition when walked on during its use as a floor covering.

2,589,503
METHOD AND MACHINE FOR WINDING ELECTRICAL RESISTANCE UNITS
Paul J. McCullough, St. Louis, Mo., assignor, by mesne assignments, to The Toastswell Company, Incorporated, St. Louis, Mo., a corporation of Missouri
Application April 24, 1947, Serial No. 743,539
4 Claims. (Cl. 29—155.5)



2. In a machine for winding an electrical resistance unit, a pair of rotating stub shafts axially aligned and spaced from each other, an elongated flat carrier extending between said shafts and rotatable therewith and adapted to mount a pair of thin flat sheets of insulating material arranged end to end lengthwise of the carrier, a readily detachable member holding the sheets against movement relative to the carrier, a wire feeder at one side of the carrier, means to move said feeder from end to end of the carrier as the carrier is rotated to wind wire from the feeder in a flat helix about the carrier and about the edges of the sheets thereon, said means being constructed and arranged to cause the winding to skip said member, said carrier being readily detached from one of said stub shafts and movable out of alignment therewith to permit removal of said sheets and windings as a unit from the carrier over the detached end of the carrier.

3. The method of producing an electric heater unit including a pair of flat sheets having a continuous resistance wire wound thereon, comprising placing the sheets end to end between a pair of relatively rigid plates, securing an end of the wire relative to one end of one of said sheets, rotating the plates and sheets to wind the wire on the plates and sheets, guiding the wire lengthwise of the plates and sheets as it winds thereon from the end of one sheet to the remote end of the other sheet, severing the wire near the terminus of its winding, removing the wound sheets from the plates, and rotating the sheets relative to one another in the plane of the sheets until two of their side edges are adjacent one another and the two ends of the wire are adjacent each other.

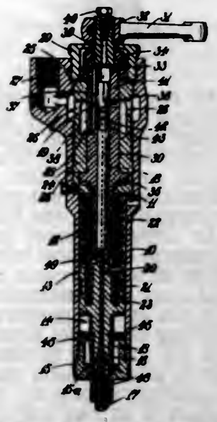
2,589,504
PROTECTOR FOR THE LIPS AND TEETH
Oliver Scott Miller, Long Beach, Calif., assignor, by direct and mesne assignments, to Mill-Mont Company, Los Angeles, Calif., a limited partnership of California
Application June 24, 1950, Serial No. 170,223
6 Claims. (Cl. 128—136)

5. A protective guard for the mouth, lips and teeth for use in combination with the chin strap of a helmet, said protective guard being of soft resilient material and comprising an outer and inner portion relative to the mouth when said protective guard is in operative position, said outer portion being shaped to conform to and cover the lips and the areas of the face adjacent to the lips and corners of the mouth, said inner portion projecting from said outer portion inwardly into the mouth and past the front teeth and being provided with an abutment portion projecting vertically behind the upper front teeth



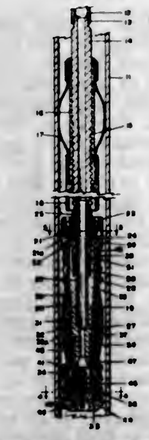
and bearing against the same when the mouth is partially closed, a passage through said protective guard to permit oral breathing, and relatively short strap means depending from said outer portion for adjustably and detachably securing said protective guard under slight tension to the chin strap of a helmet when said protective guard is in operative position.

2,589,505
PUMP INJECTOR FOR OIL ENGINES
Alberto Jorge Morris, Dursley, England, assignor to R. A. Lister & Company Limited, Dursley, England, a British company
Application October 9, 1947, Serial No. 778,776
In Great Britain September 11, 1946
11 Claims. (Cl. 299—107.2)



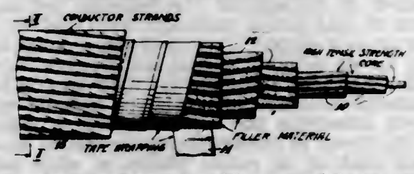
1. A pump-injector comprising a body, a bore in the body to form a gas chamber having port means for the supply to the chamber of a pressure fluid; a fuel pump cylinder accompanied in the body coaxially with the gas chamber, there being a fuel inlet port to the fuel pump cylinder; a fuel injection nozzle at one end of the pump injector, there being fuel-delivery duct means interconnecting the fuel pump cylinder and the fuel injection nozzle; a reciprocating member reciprocable within the body under control of the pressure fluid in the gas chamber and having a gas piston portion working in the gas chamber, a fuel pump plunger portion having a head working in the fuel pump cylinder, a stem connecting the head to the gas piston, and a tapered extension projecting from the gas piston portion and extending through the port means of the gas chamber to throttle the flow of pressure fluid through the port means, the taper of said tapered extension being arranged progressively to increase the effective area of the port means during travel of the reciprocating member to increase the pressure fluid receiving volume of said gas chamber to deliver fuel to the injection nozzle and progressively to decrease said effective area during the return travel of the reciprocating member to decrease said pressure fluid receiving volume, and said stem having a part arranged as a valve to control the fuel flow through the duct means to cut off the fuel flow prior to the end of the fuel injection stroke and to entrap fuel in the fuel pump cylinder; and a return spring acting to urge the reciprocating member in the direction of the return travel.

2,589,506
DRILLABLE PACKER
O. L. Morrisett, Duncan, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application April 15, 1947, Serial No. 741,630
2 Claims. (Cl. 166—12)



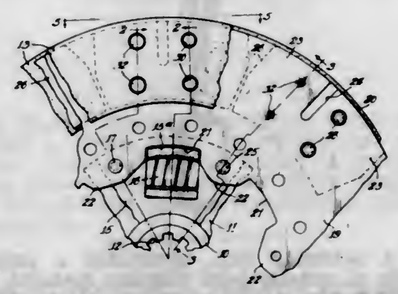
1. A packer and setting assembly adapted to be connected to the lower end of tubing for sealing the same to casing in an oil well, said assembly consisting of an upper mandrel and a lower mandrel rotatably connected to each other through a tube and ring swivel coupling, and shear pins securing one of said coupling members to one of said mandrels, a packer slidably mounted on the outside of said lower mandrel adapted, when expanded, to engage the casing in the well to maintain a seal between said lower mandrel and the casing, two sets of slips and slip setting wedge members slidably mounted on the outside of said lower mandrel, one above and one below said packer, latching means on said lower mandrel for holding said slips and said packer in retracted position while the assembly is being lowered into the well, said latching means including a release trigger latching the upper wedge member in inoperative position, a sleeve threaded to said upper mandrel, said sleeve having drag springs frictionally engaging a surrounding well casing to hold the sleeve against rotation as the upper mandrel is rotated, said sleeve having a trip ring adapted upon rotation of said upper mandrel to move in a longitudinal direction to engage and actuate said release trigger to release and expand the slips and packer and thereafter set said slips and packer, whereupon said upper mandrel may be disconnected from the lower mandrel merely by pulling upwardly on the tubing to shear said shear pins.

2,589,507
EXPANDED ELECTRICAL TRANSMISSION CABLE
Maxwell E. Noyes, Pittsburgh, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 17, 1947, Serial No. 748,714
6 Claims. (Cl. 174—131)



1. An electrical aerial cable comprising a central core of helically wound steel wires of high tensile strength, a fibrous material supported upon said central core to appreciably increase its diameter, a metallic strand incorporated in said fibrous material serving as a rigid support therein, a metallic foil tape wrapped upon the said fibrous material in overlapped relationship to encase and confine the same against formation of corona points, a plurality of external conductor strands of high electrical conductivity helically wound and exposed upon the surface presented by the foil tape, and said incorporated metallic strand making electrical contact between the central core and metallic foil tape.

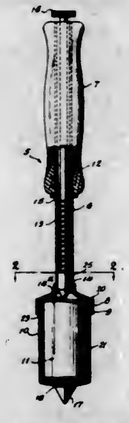
2,589,508
CLUTCH PLATE
Harold Nutt and Harold V. Reed, Chicago, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 24, 1947, Serial No. 736,646
1 Claim. (Cl. 192—107)



A clutch driven plate comprising a hub having a radial flange; a pair of axially spaced annular friction facings arranged radially outward from said flange; a rigid metal disc connected to said hub and extending outwardly alongside said flange, the outer periphery of said rigid disc being spaced radially inward from the inner peripheries of said annular friction facing members to provide a well-defined gap therebetween; and a generally flexible, composite lightweight assembly bridging said gap for flexibly connecting said facing members on said disc, said lightweight assembly comprising a thin, flexible, sheet metal annular plate structurally separate from and having less thickness than said disc, said thin annular plate extending across said gap and arranged with its inner peripheral region spaced

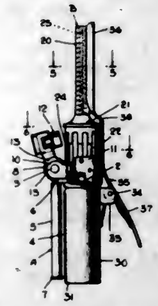
a substantial distance outwardly from said hub and overlapping only the radially outer marginal region of said disc, and with its outer region extending radially outward beyond said disc to lie between said facing members in contact with a first facing member, said thin annular plate having its outer region radially slitted to define an annular row of spaced segments; means rigidly connecting the overlapping inner region of said flexible thin annular plate and the outer region of said disc; a plurality of structurally independent thin spring sheet steel cushions arranged in an annular row between the peripheries of said facing members, each cushion having arcuate contour and a wavy form and extending across a radial slit in said flexible thin annular plate for cooperation with two adjacent segments thereof; and pairs of radially spaced rivets attaching the respective facing members to the crests of circumferentially spaced waves of each cushion in radial planes at each side of said slits, certain of such pairs of rivets also attaching said flexible thin annular plate to the facing member which is contacted by said plate, said structurally separate flexible plate defining the sole supporting and interconnecting means between said disc and said cushions whereby the aforesaid flexible connection between said facing members and said disc is effected.

2,589,509
SOLDERING IRON
Frank A. Petraglia, New York, N. Y.
Application May 14, 1948, Serial No. 27,050
2 Claims. (Cl. 158—24)



1. A soldering iron comprising a gripping handle of suitable heat resistant material, said handle having a bore therethrough, means for containing a cartridge having heat generating materials for use in soldering comprising, a threaded cylindrical hollow chamber having a top portion, a tapered soldering tip portion for focusing said generated heat developed in said means and being connected thereto, a threaded cap situated on said top portion opposite said tip portion for engaging and closing said top portion, said cap having a bore therethrough and accommodating said firing pin, hollow means connecting said gripping handle with said cap, and a plunger slidably mounted within said handle and connecting means, a contact pin on said plunger and slidable through the bore in said cap, spring means mounted between said contact pin and the upper portion of said connecting means, said plunger being retractable against said spring and upon release adapted to puncture said containing means, said tip, cap and handle all being axially aligned.

2,589,510
HAIR CURLER
Edith Ratner and Alfredo Pastore, Brooklyn, N. Y.; said Ratner assignor to said Pastore
Application March 10, 1950, Serial No. 148,992
5 Claims. (Cl. 132—37)



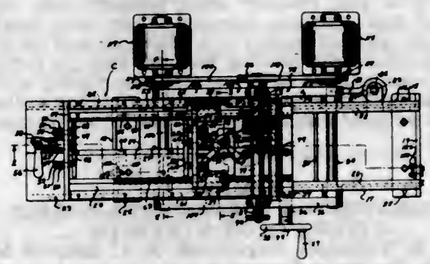
1. In a curling iron, a hair heating structure comprising in combination, an open ended heating tube, a cigarette lighter including a body portion at one end of and detachably connected to said heating tube and enclosing a fuel and wick chamber, and having a wick tube for the extension therethrough from said chamber of a wick with the protruding end of the wick in position relative to said one end of said heating tube to maintain a flame between said wick tube and heating tube, and to pass combustion gases thereby formed into said one end of said heating tube, a wick closure element movable into and out of a closure position in which it substantially prevents the wick from withdrawing fuel from said chamber, said heating tube being formed to accommodate movement of said closure element into and out of said position, and enclosing a flint channel with an open end and an ignition wheel mounted for rotation on said body with the peripheral edge of said wheel in position to engage a flint protruding from said channel through the open end of the latter, a clamping element, and means connecting said element to said structure for movement relative to said tube into and out of a position in which it is adapted to clamp end portions of hairs curled about said heating tube against the latter.

2,589,511
RELEASE MECHANISM FOR TOGGLE ACTUATED PLIER TYPE WRENCHES
Charles Harrison Redmon, Lexington, Ky., assignor to Francis L. Rice, Pikeville, Ky.
Application August 30, 1947, Serial No. 771,529
1 Claim. (Cl. 81—94)



In a hand tool of the character described, a handle provided with a fixed jaw, a movable jaw pivoted to the handle, an auxiliary handle pivoted to the movable jaw, a fulcrum bar pivoted to the auxiliary handle and having a free end, a lug on the fulcrum bar in proximity to the pivot point of the fulcrum bar to the auxiliary handle and extending in the direction of the auxiliary handle, a member longitudinally adjustable in the main handle adapted to contact the free end of the fulcrum bar for adjusting the movable jaw relative to the fixed jaw, the arrangement being such that when the pivot of the fulcrum bar is below a straight line extending from the pivot point of the auxiliary handle to the movable jaw and the free end of the fulcrum bar and the inner end of the longitudinally extending member, the jaws will be tightly closed, spring means normally moving the movable jaw away from the fixed jaw, the improvement comprising manually operated screw means in the auxiliary handle rearwardly of the point of pivot of the fulcrum bar to the auxiliary handle adapted to be rotated to contact the fulcrum bar to move the pivot point of the fulcrum bar up to a point where the auxiliary handle is above the aforementioned straight line so that said spring means will move the movable jaw away from the fixed jaw.

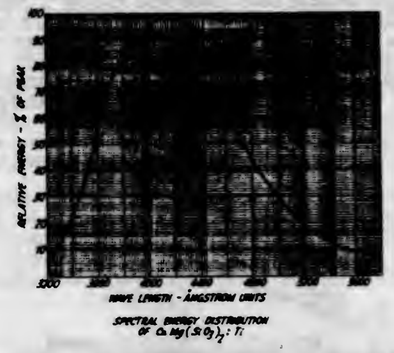
2,589,512
MACHINE FOR CODING LABELS
Harold E. Rue, Wauwatosa, and Louis Tigerman, Milwaukee, Wis., assignors to Pabst Brewing Company, Milwaukee, Wis., a corporation
Application June 27, 1949, Serial No. 101,632
4 Claims. (Cl. 164—64)



1. A machine for coding labels comprising a bed, a mandrel, a set of disc cutters on said mandrel, a yoke rockably mounted on the bed rotatably supporting the mandrel, means for rotating the mandrel, a carriage slidably mounted on the bed for movement past the cutters, means for clamping a stack of labels on the carriage, and means for swinging the yoke to adjustably position the cutters relative to the stack of labels on the carriage including a screw and a manually operated hand wheel.

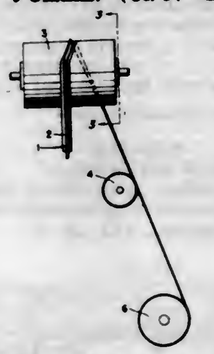
2,589,513
METHOD OF MAKING TITANIUM ACTIVATED CALCIUM MAGNESIUM SILICATE PHOSPHOR
Arthur L. J. Smith, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application November 23, 1948, Serial No. 61,638
2 Claims. (Cl. 252—301.6)

1. The method of producing a titanium activated luminescent silicate compound having the chemical composition $CaO \cdot MgO \cdot 2SiO_2$ comprising the steps of, preparing a mixture of silica and metal compounds of calcium and magnesium in a molar ratio calculated to produce said composition, said compounds being those which break down upon heating to form oxides of calcium and magnesium, including in said mixture sufficient titanium compound to give between 1.0 mol per cent and 10.0 mol per cent of TiO_2 and a flux including the sulfates and chlorides of



calcium and magnesium, firing said mixture and flux together to form said single silicate compound of calcium and magnesium activated with titanium.

2,589,514
PLASTIC THREAD
Joseph F. Stalter, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application March 23, 1949, Serial No. 83,040
9 Claims. (Cl. 57—140)

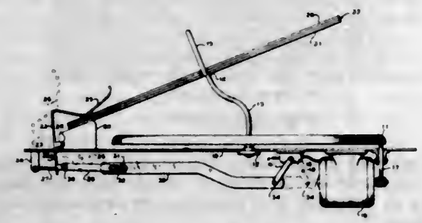


1. A plastic thread comprising a continuous core and a ribbon rolled around the core and forming a sealed enclosing sheath in stretch-shrunk contact on the core, the ribbon being of vinyl chloride resin and the core being of rubber hydrochloride.

2,589,515
ARRANGEMENT IN AUTOMATIC RECORD CHANGERS
Jörgen Christian Stannow, Lidingo, Sweden, assignor to Svenska Aktiebolaget Gasaccumulator, Lidingo, Sweden, a corporation of Sweden
Application July 3, 1946, Serial No. 681,179
In Sweden October 29, 1945
2 Claims. (Cl. 274—10)

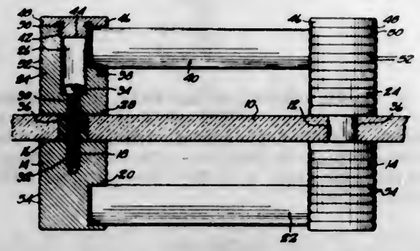
1. An automatic record changer for record players having a base plate, a turntable rotatably mounted on said base plate, a motor for driving said turntable, a switch for energizing and de-energizing said motor, actuating means for said switch and a central spindle extending upwardly from said turntable and having an offset shoulder for supporting a stack of records above said turntable, said record changer including a record support mounted on said base plate radially out-

wardly of said turntable and engaging the lower surface of the lowermost record adjacent the perimiter thereof, retaining means pivotally mounted on said base plate and having a record engaging arm extending inwardly toward said spindle in one position to engage the upper surface of the uppermost record adjacent the perimeter thereof and directly above said support, means to bias said retaining means into engagement with the uppermost record to firmly retain said records in position on said shoulder and on said support and operating means connecting



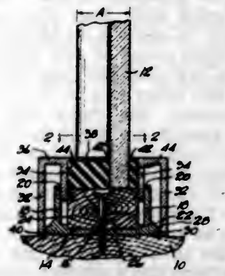
said retaining means and said switch actuating means and including a lost motion connection whereby upon movement of said actuating means to energize said motor said retaining means will be operated to move said arm into engagement with the uppermost record, said lost motion connection permitting engagement of said arm with stacks of different heights and upon movement of said actuating means to de-energize said motor and said retaining means will be operated to move said arm to a second position outwardly of said support to permit unimpeded application of records to said spindle and said support.

2,589,516
BAR MOUNTING
Otto E. Stelzer, South Bend, Ind.
Application September 1, 1948, Serial No. 47,293
10 Claims. (Cl. 16—1)



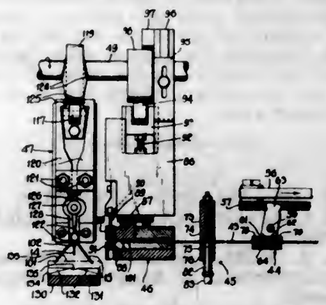
3. A door pull for a door having a pair of apertures comprising two pairs of elongated members, the members of each pair being adapted for end abutment with one surface of a door in substantial alignment with the members of the opposite pair, a pair of bars, each member having a transverse socket intermediate its ends to receive an end portion of a bar and position the same in spaced substantially parallel relation to said door, the members of one pair each having a central cavity open at its outer end, resilient sleeves adapted to seat snugly in said door apertures securing units accessible through said cavities and extending through said sleeves for securing anchorage with the members of the pair at the opposite side of said door, and a closure removably mounted on the end of each cavitied member.

2,589,517
MOUNTING FOR GLASS PANELS
Otto E. Stelzer, German Township, St. Joseph County, Ind.
Application March 22, 1950, Serial No. 151,120
2 Claims. (Cl. 189—78)



1. A panel mount comprising an elongated, substantially rigid backing member adapted to be secured to a support and having a pair of spaced longitudinal grooves defined in part by outer side walls, a pair of elongated retainers each having a pair of spaced inner and outer walls and a cross-wall portion connecting said spaced walls and projecting laterally beyond said inner wall, said inner wall fitting in a groove of said backing member, said outer retainer wall and side backing wall each having a longitudinal interlock rib, the rib of said retainer being snapped over the rib of said backing member when said inner retainer wall is inserted in a groove of said backing member, said backing member and the inner and cross-walls of each retainer cooperating with a panel positioned between said retainers to define a pair of longitudinal cavities, and a filler in each cavity.

2,589,518
APPARATUS FOR FORMING STRANDLIKE PRODUCTS ON A CARRIER
Jean R. Taplinger, Englewood, N. J., assignor to Solo Products Corporation, a corporation of New Jersey
Application June 16, 1944, Serial No. 540,732
11 Claims. (Cl. 140—87)

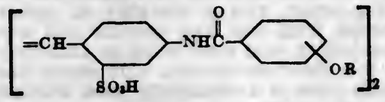


11. In apparatus for automatically forming and treating strand-like products of the character described, said apparatus employing an automatically fed endless carrier, a machine for forming a strand-like product and automatically applying the same to said carrier, means for guiding the carrier through said machine, said machine having means for intermittently feeding an elongated strand into a forming station of the machine adjacent a part of the carrier

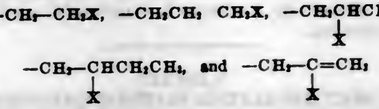
guided through the machine, means for severing workpiece lengths from said strand, said forming station comprising a pair of dies and a forming pin arranged between adjacent surfaces of the dies, said dies being adapted to shape part of the workpiece and form the same around said carrier and pin in frictionally attaching the workpiece to said carrier to facilitate removal therefrom, means for retracting the forming pin in the final formation of the product by said dies and in removal of the product from said station by feed of said carrier, each cycle of operation of said machine forming and applying a product to the endless carrier at spaced intervals, and means spaced with respect to said machine for removing the products from the carrier.

2,589,519
FLUORESCENT AGENTS
Paul E. Hoch and William H. Libby, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 15, 1951, Serial No. 206,126
7 Claims. (Cl. 260—507)

1. Fluorescent agents of the formula

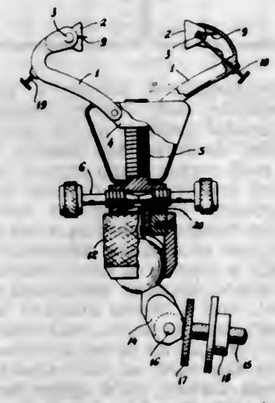


wherein R represents a member of the group consisting of haloalkyl and haloalkenyl radicals of the formula



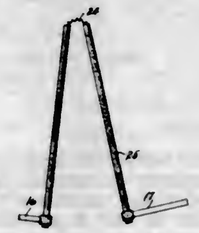
wherein X is selected from the group consisting of chlorine and bromine; and salts thereof.

2,589,520
FIXTURE FOR CAMERAS OR OTHER SIMILAR APPARATUS
Tuomo Jaakko Hermanni Wallenius, Tampere, Finland
Application February 28, 1948, Serial No. 11,956
In Finland May 27, 1947
1 Claim. (Cl. 248—177)



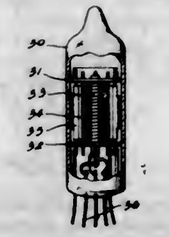
A supporting fixture having a pair of relatively movable gripping jaws for attachment to a supporting surface, each of said jaws being rotatably journalled on a respective axle rotatably carried on the end of a respective clamp arm, means to move the clamp arms relative to each other, and a gripping point fastened to each of said axles and adapted to be moved into a position for engagement with a supporting surface by rotation of the respective axle, and means to rotate said axle.

2,589,521
HEATER
William Wheeler, St. Albans, and Warner C. Wicke, Amsterdam, N. Y., assignors to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application September 15, 1948, Serial No. 49,448
9 Claims. (Cl. 313—337)



6. An electron discharge tube including a cathode comprising a hollow metallic sleeve and a small high voltage heater within said sleeve, said heater including a central conductive mandrel wire, a refractory coating over said mandrel wire rod, a helical winding of heater wire over said refractory coating, connection tabs welded to said heater wire at each end of said winding, and an outer coating of refractory material over said heater wire, leaving said connection tabs bare at their ends, said heater being doubled back on itself at a point intermediate its end.

2,589,522
CATHODE HEATER STRUCTURE
William Wheeler, St. Albans, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application September 24, 1948, Serial No. 50,946
7 Claims. (Cl. 313—337)



4. A small high voltage heater including a central conductive mandrel wire, a refractory coating over the major portion of said mandrel wire, a helical winding of resistance wire over said refractory coating, and over one end of said mandrel wire in contacting relationship therewith, a connection tab conductively connected to said resistance wire at one end of said winding, and an outer coating of refractory material over said heater wire leaving said connection tab and one end of said mandrel wire bare.

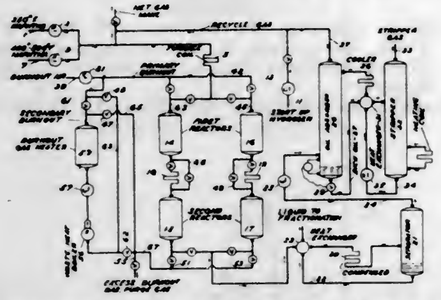
2,589,523

BLENDING OF HYDROFORMER FEED STOCKS

Byron B. Woertz, Skokie, Lawrence M. Henderson, Winnetka, and Charles M. Ridgway, Crystal Lake, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application June 21, 1948, Serial No. 34,276
4 Claims. (Cl. 260—668)

1. The method of preparing alkylated benzene hydrocarbons comprising, contacting a mixture



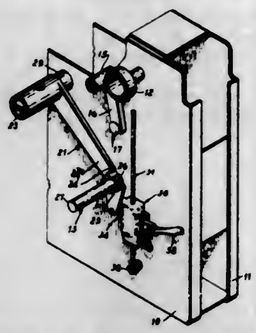
of predominantly paraffinic and naphthenic hydrocarbons consisting substantially entirely of two fractions of virgin naphtha boiling within the ranges of 190° to 300° F. and 400° to 500° F., with a dehydrogenation catalyst in the presence of hydrogen under substantial pressures exceeding atmospheric and at temperatures of approximately 850° to 1100° F.

2,589,524

CLOTH ROLL CONTROL MECHANISM

Arthur E. Zabriskie, Jersey City, N. J., and William E. Lundgren, Sharon, Mass., assignors, by mesne assignments, to Steel and Alloy Tank Company, Newark, N. J., a corporation of New Jersey

Application September 24, 1948, Serial No. 50,932
10 Claims. (Cl. 139—308)



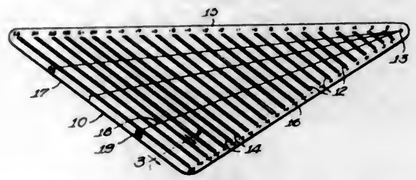
1. In a loom, a cloth roll, means for driving said cloth roll, means for supporting said cloth roll for movement along an arcuate path towards and away from said driving means and for urging said cloth roll towards said driving means along said path, a holding rod pivotally anchored to the frame structure of said loom, and a brake device pivotally connected to said supporting means and slidable along said rod as said cloth roll is moved along said path towards and away from said driving means, said brake device comprising releasable means for locking said device to said rod to prevent movement of said cloth roll towards said driving means while permitting movement of said cloth roll away from said driving means as the thickness of cloth on said cloth roll increases.

2,589,525

LAYOUT SPACER OR INSTRUMENT

Henry J. Absher, Phoenix, Ariz.

Application January 14, 1946, Serial No. 641,074
1 Claim. (Cl. 33—104)



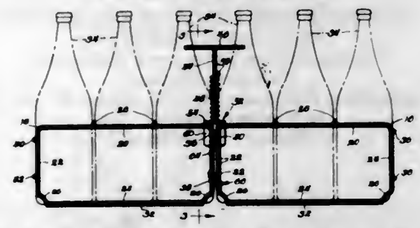
A spacer of the character described comprising a triangular body having an axis opening formed through one end thereof, said body having a plurality of equally spaced, parallel slots formed therethrough, the longitudinal axis of said slots intersecting and being oblique to the two edges of said triangular body adjacent said axis opening, each of said slots being numbered from said axis opening in consecutive and ascending order, and a plurality of radial lines extending from said axis opening and intersecting said slots, said lines being so radially spaced that the distance between slot edges measured on such lines is a commonly used multiple of a given unit of linear measurement and said distance being marked on said lines, whereby any given work line to which the spacer may be applied may be divided into the number of equal parts closest to a selected, commonly used spacing interval.

2,589,526

SECTIONALIZED BOTTLE CARRIER

Ralph B. Barker, Keosauqua, Iowa, assignor to Barker Equipment Company, Inc., Keosauqua, Iowa, a corporation of Iowa

Application October 12, 1948, Serial No. 54,127
6 Claims. (Cl. 224—45)



2. In a sectionalized carrier, a plurality of identical sections, each section having a longitudinal horizontal member at the top of each of opposite sides, each section having a vertical member at each corner, each section having vertically spaced transverse horizontal members at each of opposite ends, two of said sections adapted to be fitted together in a set in end-to-end relation, two of said sets adapted to be fitted together with a corner of each section and the respective vertical member positioned adjacent a central point, and a clamp adapted to be positioned at said central point, said clamp including a vertical shank, an upper inverted U-shape hook slidably mounted on said shank intermediate the ends thereof, said upper hook having downwardly extending legs, each leg having a vertical slot therein, forming four prongs, means

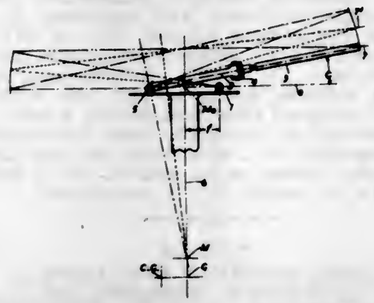
reacting between the shank and the upper hook biasing the hook downwardly, and a lower hook mounted on the lower end of said shank, said lower hook having laterally spaced legs, each leg having a horizontal portion and a vertical portion, and handle means on the upper end of said shank, each prong on said upper hook adapted to extend into one of said sections and the upper hook thereby being adapted to engage the longitudinal horizontal member and the upper transverse horizontal member in each section, the lower end of said shank adapted to be positioned at one side of the lower transverse horizontal members, the horizontal portions of the legs on said lower hook being positioned on the outer sides of the adjacent vertical members of said sections and under said lower transverse members, and the vertical portions of said legs being positioned on the side of the lower transverse members opposite the lower end of said shank.

2,589,527

HELICOPTER ROTOR CONSTRUCTION

James Allan Jamieson Bennett, Dumbarton, Scotland

Application August 5, 1946, Serial No. 688,451
In Great Britain January 11, 1946
1 Claim. (Cl. 244—17.11)



A helicopter comprising a bladed lift rotor wherein each blade is independently pivoted on a flapping pivot located on that side of the rotor hub axis remote from the major portion of the corresponding blade, each of said pivots having only a single pivot axis, and wherein the distance of each pivot axis from the rotor hub axis lies within the limits expressed by the inequality

$$\frac{1}{1+\frac{h^2}{k^2}} < \frac{f}{h \tan C} < 1$$

where f is the distance between each pivot axis and the rotor hub axis, h is the height of the pivot axes above the centre of gravity of the aircraft, k is the radius of gyration of the aircraft about one of the principal horizontal axes of the aircraft, and C is the coning angle of the blades when the aircraft is in normal hovering condition.

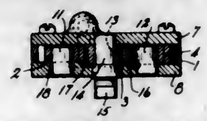
2,589,528

LOW CAPACITY GEAR PUMP

Clarence J. Bergsma, Springfield, Mass., assignor, by mesne assignments, to Indian Sales Corporation, Springfield, Mass., a corporation of Delaware

Application March 13, 1948, Serial No. 14,732
4 Claims. (Cl. 103—126)

1. A gear pump comprising a stationary casing having two side walls and a peripheral wall, inlet and outlet ports in said side walls, a spur gear rotatably mounted in the casing between the ports with a hub supported in one of said side walls, the ends of said gear abutting the inner surface of said side walls, a second and a third spur gear rotatably mounted in like manner in the casing, each in mesh with said first gear and having teeth rotatably abutting the inner surface of said peripheral wall, one of said latter gears being in axial dimension thinner than the



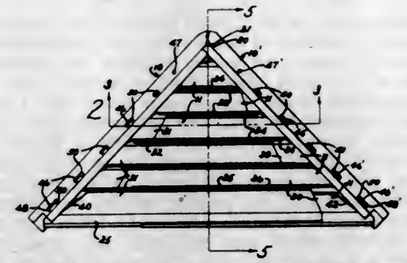
other and thinner than the first gear, said casing having an inner surface portion of one side wall adjacent said thinner gear offset to correspond to the difference in thicknesses of said gears, said offset portion having its edge curved and in end abutment with a portion of the teeth of said first gear and forming a pumping space for said teeth of the first gear in this region, and a driving shaft connected with one of said gears.

2,589,529

ADJUSTABLE LOUVER VENTILATOR

Erle F. Bowers, Albemarle, N. C.

Application March 15, 1951, Serial No. 215,769
9 Claims. (Cl. 160—223)



1. An improvement in an adjustable ventilator of a type employed in the gable end of a building and having a pair of frame members pivotally interconnected at one end thereof and extending in diverging relation to each other and also having a plurality of telescopic louvers extending between the diverging frame members, said improvement comprising means pivotally and slidably connecting opposite ends of each of the telescopic louvers to the corresponding frame members and means for adjusting the displacement between adjacent louvers in accordance with a variation in displacement between the ends of the frame members remote from the ends which are interconnected.

2,589,530

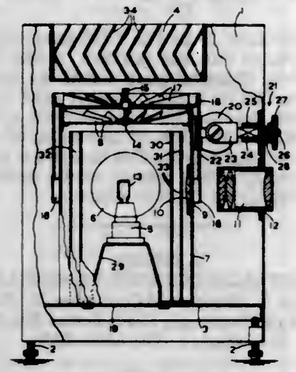
PROJECTOR WITH ROTATABLE PICTURE DRUM AND MAGNETIC BRAKING MEANS

Doreen Winifred Brightwell, Rugby, England, assignor to Reginald Ernest Cooper, Mountsorrel, England

Application November 14, 1950, Serial No. 195,579
In Great Britain January 12, 1950
1 Claim. (Cl. 88—27)

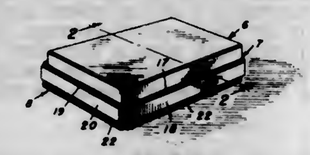
A projector comprising an outer casing having an upper air outlet and an aperture in the side thereof; a base mounted within said outer casing; a lamp housing mounted on said base, said housing having an open upper end, an opening at its lower end and an aperture in the side thereof in alignment with the aperture in said outer

casing; a support for a lamp within said lamp housing; a condenser lens mounted in the aperture of said lamp housing; a projection lens system mounted in the aperture of said outer casing; a rotatable drum disposed about said lamp housing, said drum being adapted to carry film or transparencies for movement between and in alignment with said condenser lens and projection lens system; bearing means rotatably supporting the drum from the upper end of said lamp housing; a plurality of radially disposed vanes fixed across the open upper end of said lamp housing; a plurality of radially disposed vanes mounted on said drum and positioned over



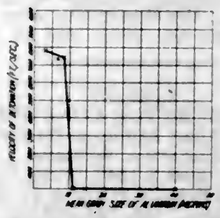
the fixed vanes on said lamp housing for effecting automatic rotation of said drum by convectional air flow through the vanes created by burning a lamp within said lamp housing so that film or transparencies mounted on said drum are automatically passed between the condenser lens and projection lens system for projection; a magnetic member mounted on the outside of said lamp housing and adjacent said drum; a magnet supported from said outer casing; means for adjusting said magnet towards and away from the exterior of said drum and opposite said magnetic member for creating eddy currents to retard the speed of rotation of said drum.

2,589,531
PAINT LOOSENING AND SCRAPING DEVICE
Vern E. Brooks, Fort Worth, Tex.
Application August 1, 1949, Serial No. 107,905
4 Claims. (Cl. 15—23)



1. A manually usable paint and scale loosening and scraping device comprising a substantially rectangular flat rigid backing plate having upstanding longitudinal and transverse flanges, the upper edges of said flanges being provided with return bends carrying downwardly directed screen wire accommodating and retaining flanges, the latter being narrower than said first named flanges and having edge portions terminating on a plane above said backing plate, substantially duplicate sheets of screen wire superimposed one on the other and having upwardly directed longitudinal and transverse marginal flanges contacting said first named flanges and frictionally clamped against said first named flanges by said second named flanges, said sheets being relatively loose in respect to each other and also in respect to the backing plate and having their coacting meshes in relatively shiftable rubbing contact to shear and reduce adhering cuttings and to free the latter from said meshes to render the screens virtually self-cleaning, and handle means for said backing plate.

2,589,532
NITRATE EXPLOSIVE CONTAINING ALUMINUM
Laud S. Byers, Reno, Nev.; Anna Rosalie Nelson Byers executrix of said Laud S. Byers, deceased
Application June 11, 1948, Serial No. 32,496
2 Claims. (Cl. 52—15)



1. A detonating explosive composition free of cap sensitive materials and consisting of ammonium and sodium nitrates 35% to 88%, at least about 35% of which is ammonium nitrate, dinitrotoluene 1% to 8%, carbonaceous combustible material 0.75% to 12% and sufficient nodular atomized aluminum, having a grain size not exceeding 30 microns to cause detonation of the composition by a #6 blasting cap, said aluminum being present in an amount not to exceed about 6% by weight of the composition.

2,589,533
PULL ACTUATED TRAP HOOK
Guy M. Buchner, Holdenville, Okla.
Application February 10, 1950, Serial No. 143,561
1 Claim. (Cl. 43—15)



In a trap hook, the combination of a first rod adapted at its upper end for attachment to a fishing line, a laterally projecting guide provided at the lower end of said first rod and having an undersurface formed with a depressed seat, a second rod slidable vertically through said guide and carrying a depending hook element, a laterally projecting guide provided at the upper end of the second rod and slidably engaging the first rod, a collar secured adjacent the upper end of the first rod, a tension spring positioned on the first rod and having its upper end anchored to said collar, the lower end of said spring being secured to the guide on said second rod for sliding the latter upwardly, and a resilient keeper bar secured at its upper end to the guide on the second rod, the lower end of said bar being engageable with said seat for locking the second rod in a downwardly slid position against the resiliency of said spring.

2,589,534
DRILL GUIDING ASSEMBLY
Ralph Q. Buttolph, Long Beach, Calif.
Application July 28, 1947, Serial No. 764,069
8 Claims. (Cl. 255—28)

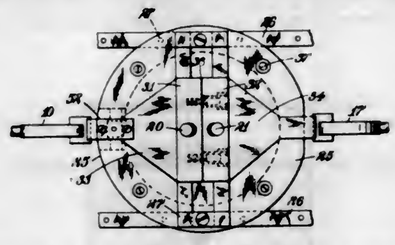


1. Well drilling apparatus for operation by a drilling string including, a drill collar, a guide coupling the drill collar to the lower end of the drilling string, a bit, and a guide coupling the bit to the lower end of the drill collar each guide including a central body forming a coupling part, spaced collars on the body, and a rest rotatable on the body between the collars, the rest being substantially shorter than the distance between the collars to be shiftable longitudinally of the body and having a plurality of channels in its exterior establishing spaced bearing parts to engage the wall of the well bore, both of the collars having circumferentially spaced cutting blades projecting therefrom.

2,589,535
HIGH-FREQUENCY ALTERNATING CURRENT BRIDGE
Raymond Calvert, New Malden, England, assignor to The Wayne Kerr Laboratories Limited, New Malden, England, a British company
Application February 13, 1950, Serial No. 143,976
In Great Britain February 26, 1948
9 Claims. (Cl. 323—75)

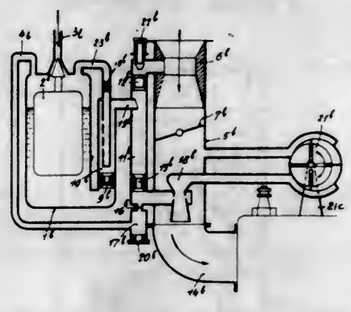
1. A mounting assembly for carrying standard and unknown impedances in a high frequency bridge comprising a number of rigid conducting members to form electrical connectors between said impedances which conducting members have adjacent surfaces and are secured in fixed spatial relationship, and spacing members of insulating material between the adjacent surfaces of the conducting members, the areas of the

surfaces and the spacing between them being arranged to provide the desired ratio of series in-



ductance to shunt capacity of the conducting members.

2,589,536
FEEDING OF INTERNAL-COMBUSTION ENGINES
Marius Clément Carbonaro, Paris, France
Application June 14, 1947, Serial No. 754,695
In France December 14, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires December 14, 1964
9 Claims. (Cl. 123—119)

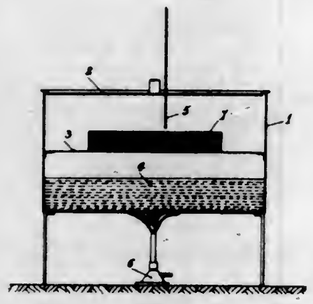


1. Means for feeding internal combustion engines comprising in combination an intake pipe; a throttle arranged in said pipe; a Venturi tube disposed in said pipe before said throttle; means for creating a vacuum of a higher degree than prevailing in said Venturi tube, the latter means being disposed beyond the said throttle; a bypass communicating at one end with the restricted part of said Venturi tube and at the other end with said means for creating a vacuum; and a device for supplying and atomizing fuel, delivering into the said bypass.

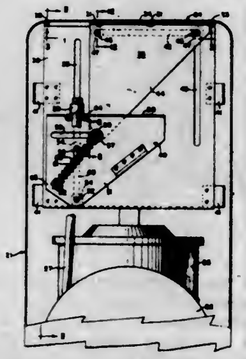
2,589,537
METHOD OF GENERATING GASES WITHIN PLASTIC MATERIALS
Pascal J. Carpentier, Paris, France
Application September 7, 1949, Serial No. 114,397
In France September 10, 1948
2 Claims. (Cl. 260—2.5)

1. In the formation of gas-expanded cellular materials essentially consisting of polyvinyl chloride and tricresyl phosphate, the method of generating gas within the material which comprises incorporating in the initial material at least one member of the group consisting of maleic anhydride and phthalic anhydride, and at least one member of the group consisting of calcium carbonate and barium peroxide, heating said material and applying water vapor thereto, whereby said anyhydride is converted into the correspond-

ing acid and said acid reacts with said member of said group consisting of calcium carbonate and barium peroxide to generate gas within said material.



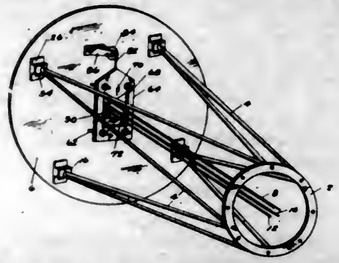
2,589,538
LUBRICATION CABINET
John F. Carter, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application July 2, 1946, Serial No. 681,023
7 Claims. (Cl. 222—182)



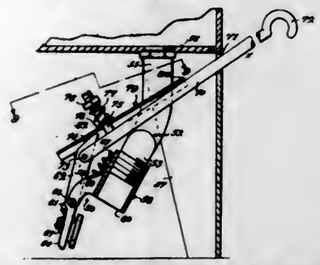
1. A substantially closed cabinet construction for housing lubrication apparatus including a flexible hose having an outlet fitting secured thereto, said cabinet construction comprising a wall having an access opening therein, an access door for said opening, an elevator for carrying said outlet fitting from the interior of the cabinet to a position where it is accessible through said access opening, means for raising said elevator to such position responsive to movement of the access door to the open position, and common resilient means tending to maintain the access door in the closed position when it is closed and the elevator in the raised position when it is raised.

2,589,539
AIRCRAFT ENGINE MOUNTING
Horace R. Childress, Dallas, Tex.
Application November 26, 1948, Serial No. 62,020
20 Claims. (Cl. 244—54)

10. In a device for releasing from an aircraft an engine having service connections to the aircraft, means for severing such connections including relatively movable shearing members between which such connections extend, and an easily frangible ring loosely surrounding said connections in the plane of said shear members to protect said connections against accidental damage by said shear members.

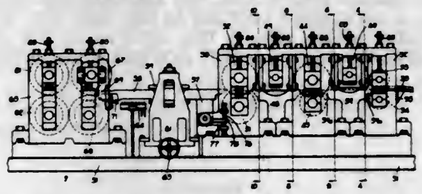


2,589,540
DRAIN CLOSURE UNIT
Orville F. Couchot, De Land, Fla.
Application September 2, 1949, Serial No. 113,802
3 Claims. (Cl. 137—34)



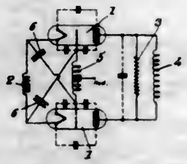
1. A drain pipe closure and actuating unit comprising a body member having a sleeve portion provided with a bore extending through the sleeve portion from end-to-end thereof, one end of the bore of said sleeve portion being adapted to detachably engage the outlet end of a drain pipe, an ear projecting from the body member adjacent the opposite, discharge end of the sleeve portion, an arm pivotally mounted intermediate of its ends on said ear, a closure member carried by one end of said arm for engaging against the discharge end of the sleeve portion for closing the bore thereof, spring means anchored to said body member and connected to said end of the arm for urging said arm to rock in a direction for retaining the closure member in sealing engagement with the discharge end of the sleeve portion, an actuating rod pivotally connected at one of its ends to said arm adjacent its opposite end, a shank projecting perpendicularly from the actuating rod adjacent said arm, a latch strip of channel-shaped cross section having an opening adjacent one end thereof for loosely engaging said shank, the end of said latch strip, remote from said opening thereof, being disposed to fulcrum and slide on the actuating rod, the terminal portion of the last mentioned end of said arm being disposed to fulcrum and slide in the channel of the opposite end of the latch strip, an adjustable stop carried by the outer end of said shank, and an expansion spring bearing on the stop and latch strip and carried by said shank for releasably retaining the arm at an acute angle relatively to the actuating rod and latch strip and with the closure in a closed position or at an obtuse angle to the actuating rod and latch strip and with the closure in an open position, said actuating rod being longitudinally movable in one direction for rocking the arm to swing the closure to a closed position and being movable in the opposite direction for rocking the arm to swing the closure to an open position.

2,589,541
PIPE SHAPING APPARATUS
Clyde R. Croson, Wheeling, W. Va.
Original application February 14, 1946, Serial No. 647,503, now Patent No. 2,563,214, dated August 7, 1951. Divided and this application April 25, 1950, Serial No. 157,979
6 Claims. (Cl. 153—54)



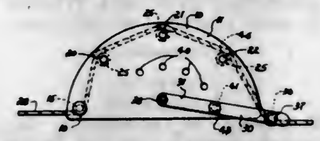
1. In a machine for forming tubular pipe stock from flat elongated sections of preheated skelp, means for feeding said skelp through a series of shaping means, a first stage of shaping means consisting of an anvil supporting said skelp at approximately its longitudinal mid-section and breakdown rolls operating adjacent said anvil in a position adjusted to impart an initial inverted channel shape to said skelp along said mid-section, a second stage of shaping means consisting of a pair of complementary rolls shaped to apply a more acute angle in the inverted channel shape of said skelp, a third stage of shaping means consisting of an anvil supporting said skelp and breakdown rolls operating adjacent said anvil in a position adjusted to impart an arcuate shape along said longitudinal mid-section corresponding to the arcuate shape of the finished pipe, a fourth stage of shaping means consisting of complementary rolls shaped to form the skelp in the shape of an inverted U, a fifth stage of shaping means consisting of a supporting mandrel and a pair of rolls having semicircular surfaces shaped to form the skelp into substantially tubular form around the mandrel with an open seam composed of the opposed edges of said skelp.

2,589,542
AMPLIFIER SYSTEM
Henri Georges de France and Herbert Ernyei, Paris, France, assignors to "La Radio Industrie" S. A., Paris, France, a society of the Republic of France
Application September 16, 1947, Serial No. 774,354
In France September 20, 1946
3 Claims. (Cl. 179—171)



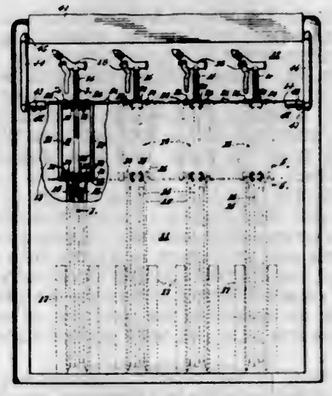
1. An amplifier system which comprises, in combination, two amplifier tubes arranged in symmetrical fashion and including each an anode, a cathode and a grid, an input circuit on which wave energy may be impressed connected with said cathodes, a choke coil connected between said grids, a load circuit connected with said anodes, and neutralizing capacitors inserted in crossed fashion between the grid of each tube and the cathode of the other respectively.

2,589,543
CABLE SHORTENING DEVICE
William Elnicky, Vancouver, British Columbia, Canada
Application April 9, 1948, Serial No. 86,557
7 Claims. (Cl. 24—71.1)



1. A device for tightening brake cables and the like at any point throughout the length thereof, comprising a frame, a stationary bearing removably mounted in the frame, an arcuate bearing surface in the frame to one side of and in the same plane as said bearing, a portion of the cable to be tightened being placed under the stationary bearing and over the bearing surface, an arm pivotally mounted on the frame beneath the bearing surface and extending outwardly beyond said surface, a pressure bearing removably carried by the arm over the bearing surface adapted to fit over the cable, and means for locking the arm in different positions relative to the stationary bearing.

2,589,544
HOSE GUIDE
Charles W. Ginter, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application March 31, 1947, Serial No. 738,481
2 Claims. (Cl. 242—157)



1. A lubrication cabinet for use with a flexible hose wound on a reel and having one end free, said lubrication cabinet having a panel dividing the cabinet into two compartments, said reel being positioned in the first compartment and the free end of the hose extending through said panel into the second compartment, means mounted on said panel for guiding the hose onto and off of the reel, said latter means comprising a guide member substantially in the plane of said panel and spaced a considerable distance from the reel and having an opening therein through which

the hose is adapted to pass, a second guide member secured to said panel and disposed closely adjacent to said reel, said second guide member also having an opening therein through which the hose is adapted to pass, said openings being in substantial vertical alignment, said second compartment having an opening therein extending the greater portion of the width of said cabinet and through which the free end of the hose is adapted to be withdrawn, and friction reducing means disposed on the cabinet adjacent at least some of the edges of said opening, said hose being withdrawn over said friction reducing means in some positions of said hose.

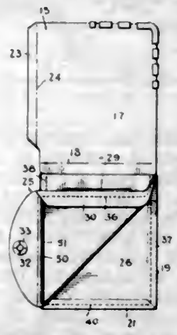
2,589,545
SKEWER
David N. Harvey, Jr., Monticello, Ga., assignor to Monticello Bobbin Company, Monticello, Ga., a corporation of Georgia
Application September 17, 1949, Serial No. 116,248
1 Claim. (Cl. 242—130)



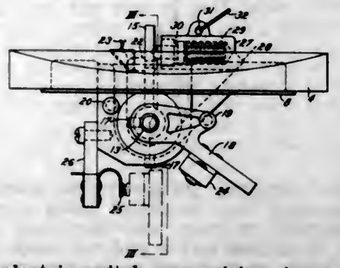
A skewer for use in textile processes such as spinning frames and the like, comprising an elongated body portion and an enlarged base, said base being frusto-conical and having radially disposed reinforcing ribs integral with its lower surface, the base having a downwardly projecting central portion provided with a circular bore therein extending from its upper end and stopping short of its lower end for reception of one end of the body portion, the base at the bottom of the bore having the head portion of a screw molded therein, said screw being centrally disposed relative to said bore and projecting upwardly into said bore and said body portion having a centrally disposed bore of smaller diameter than the diameter of the screw in its lower end for reception of said screw to secure the base and body portion together.

2,589,546
FOLDER FOR BILLS OR THE LIKE AND POCKET CONSTRUCTION
Henry M. Herbener, Thomasville, Ga.
Application February 16, 1951, Serial No. 211,309
3 Claims. (Cl. 150—38)

3. A billfolder comprising a body portion including connected first and second sides, one side being folded transversely over the other side, a partition carried by the first body portion side and foldable longitudinally over such side, the partition having an inner billfolding edge arranged near the line of folding of the first and second sides, a separate blank transversely folded for providing a first pocket side and a second pocket side and a first folded transverse edge, the first pocket side being arranged next to the second body side and the second pocket side next to the first pocket side, a line of stitching disposed adjacent to one side edge of the second body portion side and secured to such second body portion side and passing through the first pocket side and the second pocket side, a second line of stitching arranged adjacent to the opposite side edge of the second body portion side and secured to such second body portion side and passing through the first pocket side and not through the second pocket side, the arrangement providing a permanent opening at one side edge of the second pocket side, a flap secured to the outer end of the second pocket side and foldable transversely over the second body portion side and forming a second folded transverse edge, a second flap carried by the partition and foldable transversely over the second body portion side, a stud secured to the second body portion side and permanently connecting the first flap with the second body portion side, and a socket secured to the second flap and arranged for detachable engagement with said stud, the first pocket side forming with the second body portion side a first pocket having its inner and outer ends open and the second pocket side forming with the first pocket side a second pocket having its inner end covered by the first folded transverse edge and its outer end open, the outer open ends of the first and second pockets being covered by the second folded transverse edge of the first flap.

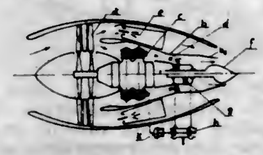


2,589,547
WATER TRIP SWITCH
Arthur V. Hughes and Lawrence B. Rademacher, Sharon, Pa., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application April 18, 1946, Serial No. 663,204
11 Claims. (Cl. 200—52)



1. An electric switch, comprising, in combination, a leakproof housing forming a barrier for preventing movement of the medium outside of the housing to the inside, said housing in normal use being launched into the sea at relatively high speed and from a given altitude, a leakproof bearing in said barrier, an offset bell-crank lever having one arm disposed at the outside of the barrier, a shaft portion in the bearing, and another arm at the inside of the barrier, an over-center spring assembly for biasing the bell-crank lever to a given end position, a vane on the arm outside of the housing for operating the bell-crank lever by the flow of the sea water past the housing as the housing strikes the sea, means for latching said bell-crank lever into said end position, and means operable by the launching of said housing for unlatching said bell-crank lever, said over-center spring assembly being so selected that the force of the air on the vane is not sufficient to operate the bell-crank lever during the period elapsing between the moment the bell-crank lever is unlatched and the moment the housing strikes the sea.

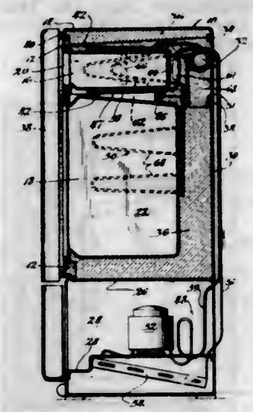
2,589,548
JET PROPULSION PLANT
Roger Jean Imbert, Paris, France, assignor to Societe Rateau (Societe Anonyme), Paris, France, a company of France and Rene Anxionnaz, Paris, France, jointly
Application March 19, 1947, Serial No. 735,676
In France April 2, 1946
9 Claims. (Cl. 60—35.6)



1. In a jet propulsion plant of the type comprising air compression means having at least one compression stage, an internal combustion reciprocating engine driving said air compressing means, and a propulsion nozzle fed by said air compressing means for producing the motive jet; an annular partition beginning at the delivery side of the said air compressing means after the last compressing stage of said air compressing means for dividing the air delivered by the last compression stage into two separate flows, one of which is led inside said partition around the engine for cooling the same, and the other of which is by-passed outside of said partition towards the propulsion nozzle, said partition having a discharge end near the propulsion nozzle, heating means outside of said partition between the said last stage and the discharge end of the partition for heating said second mentioned flow, and means near the discharge end of said partition for regulating the cooling flow inside said partition.

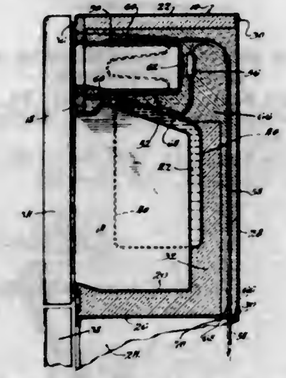
2,589,549
TWO TEMPERATURE REFRIGERATOR
George K. Iwashita, Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Original application July 14, 1943, Serial No. 494,629. Divided and this application June 16, 1950, Serial No. 168,596
7 Claims. (Cl. 62—117.3)

1. A refrigerator comprising a liner which forms a low temperature compartment, a second liner spaced from the first which forms a higher temperature compartment, means for insulating both liners on all sides except the space between them, a secondary refrigerating system having a condenser portion in direct heat exchange relation with said low temperature compartment liner and an evaporator portion in direct heat exchange relation with said high temperature



compartment liner, and a primary evaporator maintained in heat transfer relation with said low temperature compartment liner whereby it cools both the low temperature compartment and the secondary refrigerant.

2,589,550
TWO TEMPERATURE REFRIGERATOR
George K. Iwashita, Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware
Original application July 14, 1943, Serial No. 494,629. Divided and this application June 16, 1950, Serial No. 168,597
4 Claims. (Cl. 62—117.3)



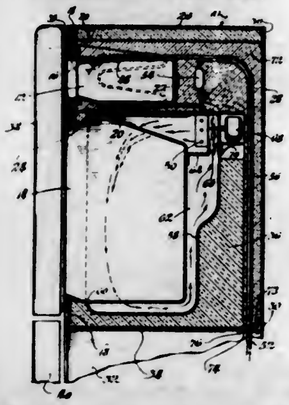
1. A refrigerator comprising a liner which forms a low temperature compartment, a second liner spaced from the first liner which forms a higher temperature compartment, the second liner being partially encompassed by a spaced sheet which forms with the wall of the liner a eutectic brine tank as a secondary refrigerating system, and a primary refrigerant circulating system having an evaporator coil, said primary evaporator coil having a portion in heat absorbing relation with the low temperature compartment liner and another portion in heat absorbing relation with the upper portion of the eutectic brine tank.

2,589,551

TWO-TEMPERATURE REFRIGERATOR

George K. Iwashita, Nutley, N. J., assignor to Admiral Corporation, Chicago, Ill., a corporation of Delaware

Original application July 14, 1943, Serial No. 494,629. Divided and this application June 16, 1950, Serial No. 168,598.
4 Claims. (Cl. 62—102)



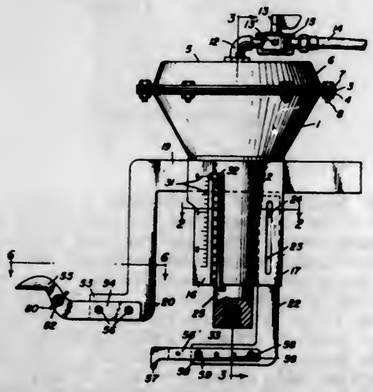
1. A refrigerator comprising a liner which forms a low temperature compartment, a second liner spaced from the first liner which forms a high temperature compartment, said second liner being partially encompassed by a spaced sheet which forms with the wall of said liner an enclosed space, a refrigerant circulating system having a pair of evaporator coils, one of said coils being in heat absorbing relation with the low temperature compartment liner and the other of said coils being positioned in said enclosed space, and means for circulating air over said second evaporator coil and then over said higher temperature compartment liner.

2,589,552

VALVE SPRING COMPRESSOR AND TENSION TESTER

Homer Virgil Kerr, Clarksburg, W. Va., assignor of fifty per cent to Leonard H. Jarvis, Clarksburg, W. Va.

Application August 14, 1947, Serial No. 768,596
3 Claims. (Cl. 73—161)



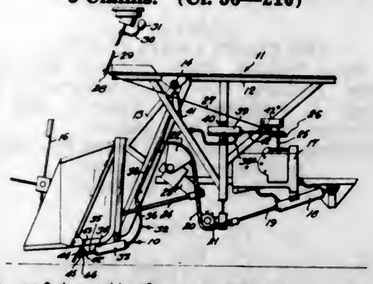
1. A valve spring and tension testing device including an air chamber and a depending cylinder formed integrally therewith, a diaghragm in said air chamber, means for admitting a fluid under pressure to said air chamber above said diaphragm, a push rod disposed in said cylinder for reciprocable movement, said push rod having a transverse slot therein, an enlarged head on said push rod engageable with the undersurface of said diaphragm, resilient means disposed about said push rod engageable with said enlarged head and with said air chamber for resiliently holding said enlarged head constantly in contact with said diaphragm, a scale on said cylinder, a cooperating indicator on said push rod, and adjustable means engageable with a fixed support and with a spring being tested respectively supported by said push rod and by said cylinder and including a bracket arm disposed through the slot in the push rod.

2,589,553

SAFETY ATTACHMENT FOR CUTTER BARS

Ammon Kesselring, Dover, Del.

Application June 13, 1949, Serial No. 98,789
3 Claims. (Cl. 56—210)



1. A safety attachment for farm machines equipped with swingably supported cutter bars and an actuating unit for raising and lowering the cutting bar thereof, comprising at least one abutment member supported beneath the cutter bar for movement forwardly and rearwardly of the farm machine, a rod supported on the machine frame for reciprocating movement relatively thereto and having one end connected to an actuating lever of the actuating unit for raising and lowering the cutter bar, a second rod connected to said abutment member and extending rearwardly therefrom, and power transmission means including a conduit containing a fluent medium forming an operative connection between said first mentioned rod and said second rod for automatically operating the cutter bar actuating unit when said second rod is displaced rearwardly by the abutment member striking an obstruction and being moved rearwardly relatively to the cutter bar thereby, said power transmission means comprising a vacuum system including a vacuum line having a vacuum cylinder at one end thereof, said first mentioned rod comprising a piston rod having one end reciprocally mounted in said cylinder, a valve interposed in said vacuum line and provided with an actuating crank, and said second rod having its opposite end pivotally connected to said crank for opening the valve for creating a suction in the vacuum cylinder when said abutment member is displaced rearwardly.

2,589,554

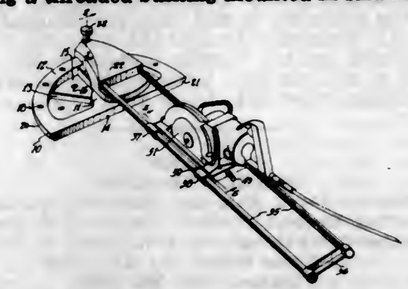
SAW GUIDE FOR PORTABLE POWER-DRIVEN HAND-OPERATED CIRCULAR SAWS

Jennings B. Killian, Portland, Oreg.

Application June 11, 1948, Serial No. 32,368
3 Claims. (Cl. 143—6)

2. In a saw guide, the combination of a semi-circular base perforated around its semi-circular

edge, having a head revolvably mounted thereon, an index pin mounted in said head adapted to engage the various holes in said base, said pin having a threaded bushing mounted in said head



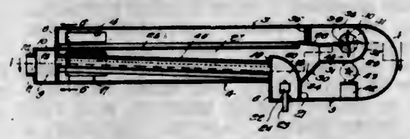
and splined to said pin, said bushing resting on said base when said bushing is turned to hold said head against movement with relation to said base.

2,589,555

HORIZONTAL FORCED AIR FLOW AIR-HEATING FURNACE

William A. King and Andrew J. Bailey, Atlanta, Ga.

Application November 22, 1946, Serial No. 711,660
4 Claims. (Cl. 126—110)



4. In a heating structure, a casing adapted to be suspended from a support, said casing comprising horizontal top and bottom walls, side walls, and front and rear end walls, a partition wall horizontally disposed between said side walls in spaced relation with said top and bottom walls and extending rearwardly from said front wall the greater portion of said casing and forming with said top wall a cold air intake passage and with said bottom wall a hot air exhaust passage, a cold air intake duct formed in said side wall at the forward end of the cold air passage, and an underlying exhaust duct in communication with said exhaust passage, a combustion chamber extending within the rear end of said exhaust passage, a series of flue tubes arranged in said exhaust passage in communication with said combustion chamber and extending through said front end wall, a distributing chamber in communication with the rear ends of said air intake and exhaust passages and defined by top, bottom, side and end walls, said bottom terminating in an apron extending downwardly to the combustion chamber, fan means in said distributing chamber for drawing cold air, preheated as it traverses said cold air passage, to said distributing chamber and moving it therefrom to and over the combustion chamber and through said exhaust passage and around and over said flue tubes to said exhaust port.

2,589,556

ROTARY CUTTER HEAD FOR SEWER RODS

Anton P. Kjeruiff, Lake Charles, La.

Application June 30, 1945, Serial No. 602,610
1 Claim. (Cl. 15—104.3)

A head for sewer rods comprising a triangularly shaped support, a circular roller having a cutting edge at its periphery and rotatably mounted on each side of the support so that portions of the cutting edges of the rollers will always be in substantial contact with each other



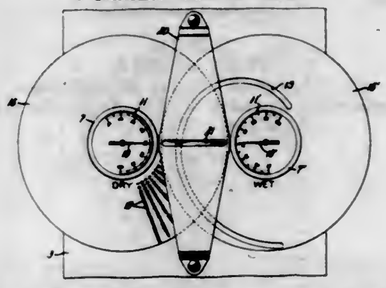
forwardly of the support, a collar extending through the base portion of the triangularly shaped support and a blade secured to the rearward side of said base portion and extending to said cutting edges at their rearward portion.

2,589,557

HYGROMETER OF THE WET AND DRY BULB THERMOMETER TYPE

Anthony H. Lamb, Hillside, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application August 29, 1949, Serial No. 112,923
7 Claims. (Cl. 73—338)



1. A hygrometer of the wet and dry bulb thermometer type, and including bimetallic thermometers supported on a stand for angular adjustment, said thermometers including pointers movable over arcuate scales of temperature graduations, and a computer for determining relative humidity; characterized by the fact that said computer includes a pair of disks connected to said thermometers for angular adjustment thereby, one of said disks carrying a plurality of scales of relative humidity and the other disk carrying a fiducial mark for indicating the then-existing relative humidity value upon adjustment of said thermometers to aline said pointers.

2,589,558

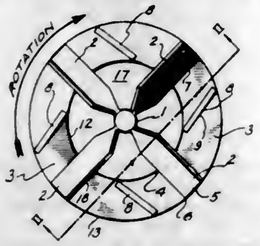
STIRRER

Frank Lamoreaux, Newark, N. J.

Application July 13, 1949, Serial No. 104,459
3 Claims. (Cl. 259—134)

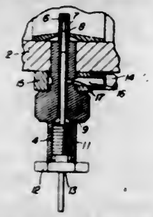
1. In an agitator for liquids and suspensions of solids in liquids, a shaft, a plurality of circumferentially spaced long blades secured to and extending substantially radially of said shaft, said blades being flat and each with its upper edge in advance of its lower edge as viewed with respect to the direction of shaft rotation, thereby to impel liquid downwardly, means consisting of

a single flat annular plate secured to the upper edges of said blades and coaxial with said shaft determining the paths of the liquid sub-streams established by the respective long blades, the inner diameter of said annular plate being between one-half and two-thirds of its outer diameter and the upper surface of said annular plate being smooth and unbroken, and a second set of flat blades of relatively short length secured to the lower surface of said annular plate and



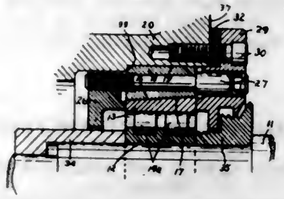
raked rearwardly, thereby to impart a relatively high radially outward velocity to the sub-streams established by said relatively short blades; the outer ends of all of said blades terminating substantially at the outer edge of said annular plate, the inner edges of said relatively short blades terminating substantially at the inner edge of said annular plate, and there being at least one short blade between each adjacent pair of long blades.

2,589,559
FUEL NOZZLE
Paul A. Lebeda, Cedar Rapids, Iowa
Application January 9, 1948, Serial No. 1,467
2 Claims. (Cl. 261—78)



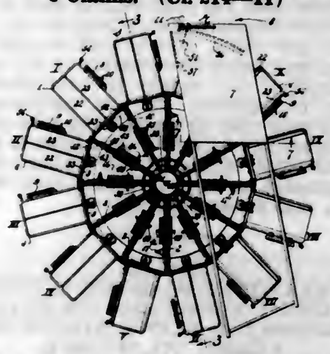
2. In a fuel feeding means for feeding fuel to such devices as model airplane motors, in which the motors are operated at substantially a constant speed, a nozzle construction comprising a tube extending at substantially a right angle to the direction of the length of said mixing chamber at its inner end into the mixing chamber of said fuel feeding means and having its fuel delivery end substantially centrally located in said mixing chamber, the inner end of said tube having an annular portion forming a restricted outlet for said tube, means at the outer end of said tube connected therewith and forming an enlarged threaded portion, a screw plug having a head diametrically larger than the enlarged portion at the outer end of said tube, said plug having a central aperture, in axial alignment with the restricted opening at the inner end of said tube and adapted to be screwed into the said threaded portion until the enlarged head thereof engages the outer end of said threaded portion, an elongated pin positioned in the opening in said plug and extending coaxially of said tube to the inner end thereof, said pin having a conical portion cooperating with said annular portion of the tube to form a fuel passage therebetween, and means fixedly securing the outer end of said pin to the outer portion of said screw plug in such relative position that, when the conical end of said pin merely touches the annular portion at the inner end of said tube, the enlarged head of said screw plug engages the outer end of said threaded portion, thereby preventing the inner end of said pin from being jammed against the restricted inner end of said tube.

2,589,560
ROLLER BEARING
Arthur H. Lloyd, Coventry, England, assignor to Alfred Herbert Limited, Coventry, England
Application February 12, 1949, Serial No. 76,117
In Great Britain April 21, 1948
3 Claims. (Cl. 308—207)



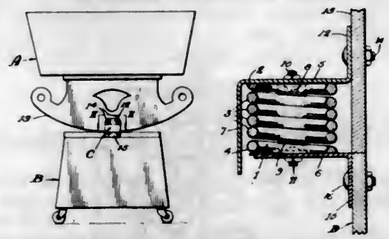
1. In combination, a stationary housing, a rotatable member, a roller bearing including a plurality of caged rollers operating between plain races provided by non-split inner and outer rings, one of said race rings being movable axially relatively to said rollers, said inner race ring being fast on said rotatable member, said outer race ring being slightly tapered externally, a bush the internal periphery of which has the same taper as that of said outer race ring and is slidingly engaged by said outer race ring, said bush being supported externally in a cylindrical bore of said stationary housing and axially located thereby against movement in one direction, means for effecting axial movement of said outer race ring in said one direction whereby to compress said outer race ring radially and pre-load said bearing, and means carried by said bush for moving said outer race ring relatively to said bush in the other direction to remove the loading on said bearing.

2,589,561
LAUNDRY SORTING APPARATUS
James G. Mackechnie, Jr., Springfield, Mass.
Application December 23, 1949, Serial No. 134,669
5 Claims. (Cl. 214—11)



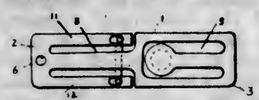
1. In a selectively controlled sorting apparatus the combination of a horizontally disposed rotatable frame having a vertical axis and means to rotate said frame, a series of trays mounted on said frame, each pivotally supported for movement from an article holding to an article releasing position, a series of bin stations under said frame and receiving bins at said stations below said trays, a sorting table overlying a portion of the circle described by said rotated trays, releasable tray supporting means on the frame for engaging the trays in article holding position, and means to disengage said supporting means including presettable mechanism with positional elements associated therewith and carried by said rotatable frame, stationary positional contact members associated with said bin stations and lying in the path of rotation of said elements, the interengagement of said members and said elements serving to release said tray supporting means on arrival of a tray at a bin station as selectively predetermined by actuating said presettable mechanism, camming elements under said table in the path of trays suspended in article releasing position to return the same to holding position and means under the table to inactivate said presettable mechanism.

2,589,562
SPRING CONSTRUCTION FOR CRADLES
Anthony A. May, Decatur, Ga.
Application December 9, 1949, Serial No. 132,107
3 Claims. (Cl. 5—105)



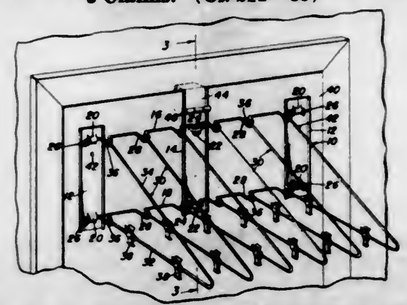
1. A spring construction for controlling movement of a movable member relative to a stationary mounting member which comprises a spiral spring having end convolutions of a decreasing cross-sectional area corresponding in amount to the pitch of the spiral of the spring and being directed towards each end of the spring which therefore are of least thickness, whereby the end convolutions present substantially parallel planar areas, end plates covering the end convolutions, one of said end plates formed with an apron in front of the spring affording front coverage therefor, means adapted to secure one of the end plates to the movable member and the other end plate to the stationary member, and respective means extending through the spring and behind the end convolutions for securing the end plates to the spring.

2,589,563
LONGITUDINALLY SHIFTABLE SWITCH BLADE
Edwin August Miller, Fairfield, Conn.
Application December 18, 1947, Serial No. 792,477
1 Claim. (Cl. 200—67)



A switch blade comprising an oscillating tension member; a base provided with spaced stops limiting the bodily movement of said blade therebetween; upper and lower contacts carried by one extremity of said blade, one of said contacts normally being in engagement with one of said stops; rearwardly extending resilient companion compression arms of which both are normally under compression; rigid base supports relatively spaced one from the other intermediate the length of said blade, the opposite end of each of the said companion arms being secured to a separate portion of the forwardly positioned one of said rigid supports; a rear resilient spring member normally not under compression, one end of which is carried by the rear extremity of said blade, the opposite end of said spring member being secured to the other of said rigid supports; and a push actuator movable transversely to the plane of said tension member and operably engageable therewith to move the contact extremity of said blade from one to the other of said stops upon a forwardly release of the compressed condition of said compression arms thereby longitudinally shifting said blade and forcing the rear spring member under compression.

2,589,564
GARMENT HANGER
Joseph A. Moore, Boone, Iowa
Application July 12, 1950, Serial No. 173,432
3 Claims. (Cl. 211—89)
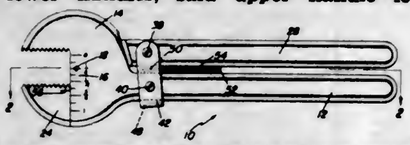


1. In a garment hanger, the combination of a pair of outer straps and a center strap disposed in a common vertical plane, upper and lower horizontal bars extending transversely of said outer and center straps and connecting the same together, said bars being provided at longitudinally spaced points thereon with pairs of vertically aligned and forwardly projecting U-shaped portions affording bearings, and a set of garment supporting frames each comprising a wire rod having a horizontal portion, a rearwardly inclined portion extending from the front end of the horizontal portion and a pair of eyes at the rear ends of said horizontal and inclined portions, the eyes of said frames being movably mounted on the respective pairs of bearings, whereby the frames are connected to said bars for lateral swinging movement.

2,589,565
WRENCH HAVING SLIDABLE SIDE JAW ACTUATED BY PIVOTED HANDLE
John Minton, Baton Rouge, La., assignor of fifty per cent to Kenneth V. Minton, Baton Rouge, La.
Application July 24, 1950, Serial No. 175,521
3 Claims. (Cl. 81—86)

2. An adjustable wrench comprising a lower handle lever having an upper jaw member attached thereto, a lower jaw member having a

groove therein, means carried by said upper jaw slidingly lockingly engaging said lower jaw member within said groove, an upper handle lever selectively engaging said lower jaw member, and a linking member pivotally attached to said upper and lower handles, said upper handle lever



being continuously resiliently urged into engagement with said lower jaw member by spring means biasing said linking member and a lug secured to said lower handle lever, said upper jaw member having an opening therethrough, said upper handle lever extending through said opening.

2,589,566

ELECTRIC WATER-HEATING SYSTEM

Frederick G. Neth and John F. Templeman, Portland Oreg., assignors to M. F. Keller, Portland, Oreg.

Application December 15, 1949, Serial No. 133,054
2 Claims. (Cl. 219—38)



1. Electric water heating apparatus comprising in combination, a plurality of vertical tubes disposed within said tank, a heating unit disposed concentrically in each tube in spaced relation thereto to provide an annular air space between the heating unit and said tube, said heating unit comprising a tube closed at its bottom end by the base of a vertically disposed heating element, the opposite or upper end of each of said last mentioned tubes being open to the atmosphere, and said last mentioned tubes being filled with material adapted to be converted into a molten state in the presence of heat and entirely surrounding said heating element, whereby heat is transferred from each of said heating units through said air space to the water within said tank.

2,589,567

MELAMINE FORMALDEHYDE SCRATCH RESISTANT COATING COMPOSITION, METHOD OF APPLYING, AND ARTICLE PRODUCED THEREBY

Mortimer H. Nickerson, Springfield, Mass., assignor to De Bell & Richardson, Inc., Springfield, Mass., a corporation of Massachusetts

No Drawing. Application September 10, 1948, Serial No. 48,773
9 Claims. (Cl. 117—138.8)

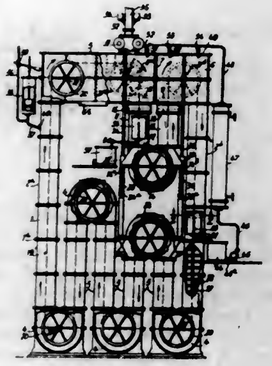
8. The method of forming a scratch resistant flexible coating on a sheet of synthetic organic thermo-plastic resin which comprises condensing melamine and formaldehyde in the presence of normal butanol, the upper limit of the formaldehyde in proportion to the melamine being in the approximate ratio of 4 mols of formaldehyde to 1 mol of melamine to form a solution of chemically unmodified melamine formaldehyde in a solvent consisting essentially of water and butanol, the butanol being present in a predominant amount, plasticizing the resin by the addition of the linear polyamid forming neutral salt of an unsubstituted straight chain polyamine the terminal carbon atoms of which each contain a primary amine, and an unsubstituted straight chain aliphatic dibasic acid, depositing the mixture on the sheet to a coating of chemically unmodified melamine formaldehyde condensation product thereon, drying the coating at a temperature below 90° F. until it is slightly tacky to the touch, and press polishing the coated sheet, using heat and pressure to cure the coating.

2,589,568

DIFFUSION APPARATUS

André Jean Pierre Olier, Laure, France, assignor to Societe Anonyme des Etablissements A. Olier, Clermont-Ferrand, France, a French company

Application November 29, 1949, Serial No. 130,049
In France April 21, 1948
9 Claims. (Cl. 127—7)



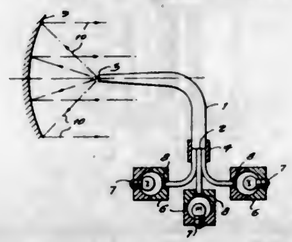
1. In a continuous diffusion apparatus, more especially adapted for the sugar industry, a conduit forming a closed circuit, on the one hand, for the material to be treated between an inlet opening for the fresh material and an outlet opening for the exhausted material and, on the other hand, for a liquid of treatment between an inlet opening for said liquid and an outlet opening for the liquid enriched in products removed from said material through diffusion, endless flexible conveying means movable in said conduit in order to move said material therein, and one element at least of said conduit being a U-shaped element slideably mounted in the extremities of the stationary remainder of said conduit and movable vertically, and being carried by the axle of a pulley supported by said flexible conveying means, whereby said means are tensioned by the action of the weights of said U-shaped element, and of that of the materials contained therein.

2,589,569

OPTICAL SYSTEM FOR USE IN LIGHT SIGNALS, INDICATORS, AND THE LIKE

Leslie Hurst Peter, Edward Alfred Sheppard, and Sydney Arthur Stevens, London, England, assignors to Westinghouse Brake and Signal Company Limited, London, England

Application July 2, 1949, Serial No. 102,782
In Great Britain August 4, 1948
6 Claims. (Cl. 177—329)



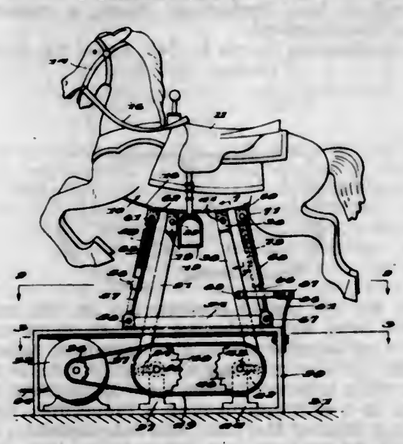
6. In an illuminated diagram, a panel having an aperture therein; a transparent light guide having one extremity extending through said aperture and substantially flush with the front surface of said panel; a plurality of lamp housings; tributary rods of transparent material extending between each of said lamp housings and the other extremity of said light guide; and means individual to said tributary rods, respectively; for imparting distinctive colours to light rays emanating, respectively, from said lamp housings and passing from end to end of said tribuary rods into said light guide.

2,589,570

MECHANICAL AMUSEMENT OR EXERCISING HORSE

Herbert W. Phillips, Washington, D. C., assignor of one-half to Robert L. Welch, Jr., Washington, D. C.

Application March 28, 1950, Serial No. 152,449
3 Claims. (Cl. 128—33)



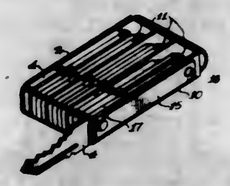
1. In an amusement device, an animal element having a belly portion, an arcuate plate lying along and secured to said belly portion, two rotatable crank shafts, a crank arm on each crank shaft, means for driving said crank shafts and maintaining the crank arms thereof in a one hundred and eighty degree displaced relationship, a casing enclosing the crank shafts having an elongated slot in an upper portion thereof, a bar connected to one crank arm extending upwardly through said slot and pivotally connected to a front portion of said plate, a second bar connected to the other crank arm extending upwardly through said slot and pivotally connected to said plate at a point spaced rearwardly from the upper end of the first bar, a piston rod connected to the upper portion of the casing at a front end of said slot, a cylinder member receiving said rod and pivotally connected to the plate forwardly of the upper end of the first bar, a spring within said cylinder member compressed between an end of the rod and an upper end of the cylinder member, a second rod pivotally connected to the upper portion of the casing adjacent a rear end of said slot, a second cylinder member pivotally connected to the plate rearwardly of the upper end of the second bar and receiving the second rod, a spring within the second cylinder member compressed between the upper end of the second rod and an upper end of the second cylinder member, a leaf spring secured to the casing and extending upwardly therefrom, and link means connecting an upper end of the leaf spring to one of said bars to prevent unlimited swinging movement of the upper end thereof.

2,589,571

KEY JACK

Harold E. Queen, Berkeley, Calif.

Application February 9, 1946, Serial No. 646,512
4 Claims. (Cl. 70—456)



4. In a key holder, in combination, a channel shaped member of thin springy material slitted from one end at the junction of the bottom and sides of the channel for the greater part of its length, a pin extending through the sides of the channel near the slitted end thereof, flat keys strung on the pin by means of holes through their square heads, and one or more ejectors comprising flat levers having a hole through one end adapted to be strung on the pin and having a turned up tab adapted to engage and lift the bit ends of the keys out of the channel by overcoming a pressure of the end of the bottom of the channel against one edge of the square key heads, the ejectors being further adapted to be held secured in retracted position in the channel by the pressure of the keys when the keys are in turn held secured by the springy bottom of the channel shaped member.

2,589,572

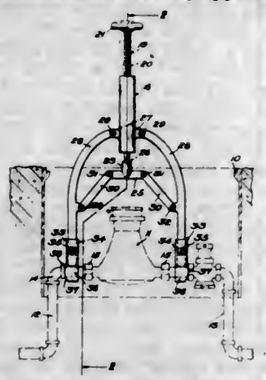
METER BASE SPREADER

John Emmett Rainwater, Cedartown, Ga., assignor of one-half to Hiawatha James Hedgepeth, Cedartown, Ga.

Application March 8, 1948, Serial No. 13,714
5 Claims. (Cl. 254—126)

1. A device for moving two opposed members spaced by a base member to free the base member, comprising a sleeve, a pair of arms pivotally secured directly to said sleeve, a shaft in the sleeve and movable relative thereto along the longitudinal axis, linkages connecting the shaft with the arms for moving the arms in a direction

normal to the axis of the shaft, upon movement of the shaft in the sleeve, and grippers on the end



of each arm for grasping the said opposed members for movement.

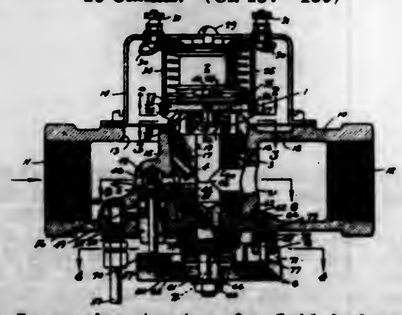
2,589,573

ELECTROMAGNETIC RESET VALVE

William A. Ray, North Hollywood, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California

Original application June 5, 1943, Serial No. 489,801, now Patent No. 2,422,368, dated June 17, 1947. Divided and this application August 20, 1946, Serial No. 691,835

16 Claims. (Cl. 137—139)



1. In a valve structure for fluid fuels: means forming a passageway for fuel; a valve seat, and a closure co-operable therewith for controlling fuel flow through said passageway; means for moving said closure to or from seating relationship with respect to said valve seat; an electromagnet adapted to maintain said closure in open position when energized, and when deenergized to release said closure for movement to closed position; said magnet and said closure having respective faces which are adapted to contact and complete the magnetic circuit through said magnet when said closure is in open position; and means, comprising an annular flexible wall connected between said magnet and said closure, forming a chamber enclosing said faces and isolating them from fuel in said passageway.

2,589,574

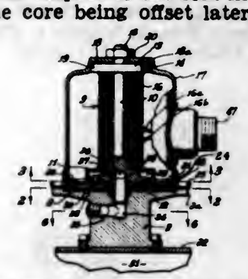
ELECTROMAGNETIC VALVE

William A. Ray, Glendale, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California

Application May 22, 1946, Serial No. 671,583

7 Claims. (Cl. 137—139)

3. In an electromagnetic valve: a valve body providing a port surrounded by a seat: means mounted on said body and defining therewith a closed space, said means including an electromagnet secured on said body having a core with one pole face spaced above and facing said seat, there being a port in said core opening through said face and surrounded by a seat facing oppositely with respect to the seat in the body, the axis of the core being offset laterally from the



ports; a magnetic closure member movable between said seats in accordance with energization or deenergization of said magnet, to control said ports; means forming a passage communicating with the port in the core including a tubular element extending axially of the core between the body and the core, and freely accommodated in an axial opening through the closure member; there being a passage connected with said space.

5. In an electromagnetic valve: an electromagnet having a core provided with a pole face; means forming a port in said core opening through said face and surrounded by a valve seat; a magnetic closure member movable toward and away from said seat to control said port in accordance with the energization and deenergization of said magnet; and means passing through said closure and extending into said core to form a passage connected with said port.

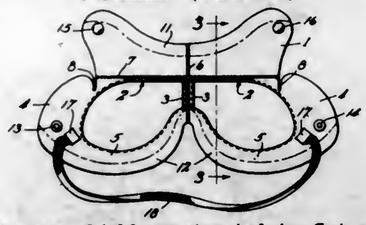
2,589,575

PROTECTIVE EYESHIELD

Henry M. Richardson and Wesley S. Larson, Springfield, Mass., assignors to De Bell & Richardson, Inc., Springfield, Mass., a corporation of Massachusetts

Application March 3, 1948, Serial No. 12,734

5 Claims. (Cl. 2—14)



1. An eye shield constructed in flat unitary sheet form and including a visor member, lens carrying members and side members extending from the lens carrying members, the visor member being separated from the lens carrying members by a channel forming a hinge line, the adjacent ends of the visor and side members being separated by cuts extending below the ends of said channel, said side members being bendable through an arc of substantially 90° about the closed ends of said cuts as centers to position the adjacent portions of the visor and end members in superposed relation, and snap fastener members carried by said superposed portions of the visor and end members and engageable to releasably hold said members in superposed position.

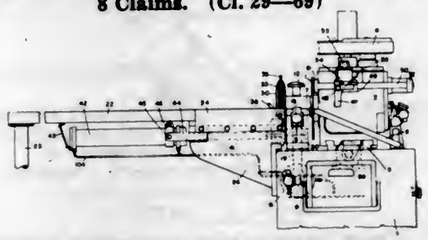
2,589,576

SAWING MACHINE

Howard E. Rose, Peninsula, Ohio, assignor to The Motch & Merryweather Machinery Company, Cleveland, Ohio, a corporation of Ohio

Application December 5, 1946, Serial No. 714,208

8 Claims. (Cl. 29—69)



6. In a sawing machine, a reciprocable saw carriage, work holding means through which an elongated length of stock may be intermittently advanced transversely of the path of reciprocation of such saw, a stock gauge mounted on said carriage for such reciprocatory movement therewith adapted to engage the end of such stock, air-operated stock feeding means operative to advance such stock into engagement with said gauge and hold it firmly thereagainst until clamped by said work holding means, and a switch associated with said gauging means adapted to be operated by engagement of such stock with said gauging means and thereby to initiate clamping of said work holding means.

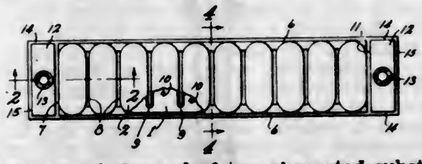
2,589,577

ICE PACK FORMED OF VINYL PLASTIC SHEETING

Morris Rosenthal, Springfield, and Joseph Robinson, West Springfield, Mass., assignors to Pioneer Valley Plastics Company, Chicopee, Mass., a partnership

Application June 18, 1949, Serial No. 99,936

1 Claim. (Cl. 62—.1)



An ice pack formed of two elongated substantially rectangular superposed strips of flexible vinyl sheeting, one of said strips being shaped to provide a series of spaced recesses generally arcuate in cross section and extending transversely of the strip, the walls of said recesses being thicker at their crown portion than at their side portions, the second strip being planar and substantially of the same thickness as the crown portion of the recesses, said strips being welded together along their side and end edges and between said recesses, the welds between the recesses dividing the pack into a plurality of individual chambers, each chamber having a generaly arcuate wall formed by the recesses of the first strip and a planar wall formed by the portions of the second strip lying between the last-named welds, the last-named welds terminating short of the side welds to provide relatively small passages between adjacent so formed chambers, and a quantity of freezable liquid confined within the chambers and passages by said side, end and intermediate welds, said strips each having end portions extending outwardly beyond the end chambers, and said end portions being welded together in face to face relation and provided with metal grommets providing means for securing the ice pack in position.

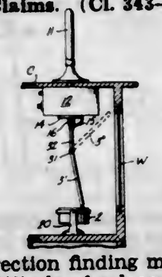
2,589,578

RADIO DIRECTION FINDING APPARATUS

Rolland C. Sabins, Seattle, Wash.

Application April 15, 1946, Serial No. 662,123

7 Claims. (Cl. 343—115)



1. Radio direction finding mechanism for correlating the attitude of a loop antenna with the compass card of a craft's navigational compass and wherein the loop antenna is supported for rotation about an upright axis coinciding with the rotative axis of the compass card of such compass, said mechanism comprising antenna attitude index means mounted on the loop antenna for rotation in synchronism therewith about the rotative axis of the antenna, and including means to project an antenna position index image onto the compass, said latter means comprising a light projection tube located immediately above the compass card and disposed eccentrically of such card's axis for cooperation with markings on the card's periphery, and said tube being mounted pivotally for swinging away from the compass when not being used.

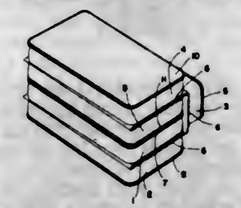
2,589,579

FOLDABLE MATTRESS

Zel Slayen, San Diego, Calif.

Application April 30, 1947, Serial No. 744,999

10 Claims. (Cl. 5—357)



1. In a foldable mattress of the class described, the combination of a plurality of mattress sections, an upper ticking sheet forming the pivotal hinge connection for said folding sections, the breadth of one of said sections being coextensive with the thickness sides of two of said sections when in contiguous folded position.

2,589,580

SHRIMP DISTRIBUTING MACHINE

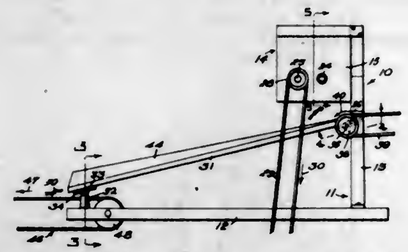
William O. Smith, Freeport, Tex., assignor of thirty-three per cent to E. R. Bennett, Brazoria County, Tex.

Application December 12, 1947, Serial No. 791,181

2 Claims. (Cl. 198—53)

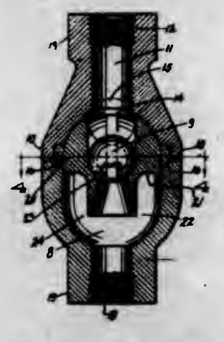
1. In a shrimp distributing machine, an upright hopper adapted to contain shrimp to be dispensed therefrom, and rotary driven dispensing and agitating means disposed in a horizontal plane and forming the hopper bottom and comprising a pair of rollers driven in opposite directions and disposed in spaced, substantially paral-

lel relationship to define a discharge opening therebetween constituting the hopper outlet, said rollers being formed of yieldable material, and



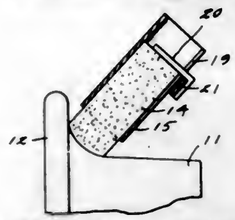
at least one of said rollers including a plurality of separate sections disposed for individual yielding movement.

2,589,581
VERTICAL-HORIZONTAL BALL CHECK VALVE
Edward Sokolik, New Brighton, Minn.
Application May 6, 1946, Serial No. 667,513
7 Claims. (Cl. 251—121)



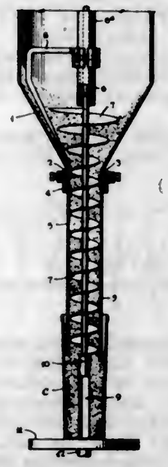
1. A check valve comprising an intake section and a discharge section joined together by screw-threaded means and together having an omni-rounded inner periphery forming an omni-rounded chamber, adapted to facilitate flow, the intake section having an inlet duct leading to the chamber and a seat adapted to seat a check ball valve, encompassing the inner orifice of the inlet duct and affording a juncture of the duct and the periphery of the said section, and the discharge section having an outlet duct leading from the chamber, said chamber including in consecutive communication a bored guideway portion extending axially inwardly in the chamber from the inlet duct toward the outlet duct and including a plurality of radially spaced apart, elongated finguides axially disposed in the chamber, bored in the central axis to afford a slideway for a check ball valve, and coinciding and communicating with the omni-rounded inner periphery of the sections, seat means affording a stop for the valve, said seat means having seating contours coinciding with the contour of the ball valve; and means for causing quick unseating of the valve by the back flow which rapidly moves said valve in the slideway into checking position onto the seat, said means facing the outlet duct and being spatially enveloped by the omni-rounded periphery of the sections.

2,589,582
LUBRICANT STICK
Peter Strughold, Lemay, and Joseph F. May, St. Louis, Mo.
Application August 12, 1949, Serial No. 109,834
5 Claims. (Cl. 252—12)



1. A heat resistant solid composition combined of 80 to 90% amorphous graphite and 20 to 10% "bakelite" combined under heat at a temperature of at least 250° Fahrenheit and pressure of at least 15,000 pounds per square inch for a period of approximately three hours to form a linear member for engagement with the flange of a locomotive wheel to effect a non-liquefying lubricating coating thereon.

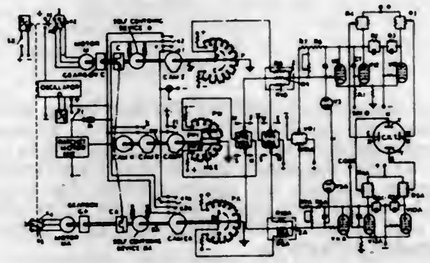
2,589,583
CONTAINER FILLING MACHINE HAVING FEED SCREW WITH CYLINDRICAL BORE FORMING MEMBER
Forrest G. Thompson, Kennett Square, Pa.
Application May 23, 1947, Serial No. 749,906
4 Claims. (Cl. 226—25)



2. In a container filling machine comprising a container support yieldably displaceable in a vertical direction between predetermined limit positions, means normally urging said container support to its upper limit position, a feed hopper disposed above said container support and provided with an elongated delivery tube of uniform internal diameter depending from said hopper and arranged to extend into a container on said support when said support is in its upper limit position, a feed screw including a portion of uniform diameter extending within said delivery tube having at its upper end a portion of gradually increasing diameter disposed in the lower portion of the hopper, said feed screw operating to effect a uniform feed of material from the hopper through the tube and into said container at a predetermined rate operable to displace

downwardly the container and said support as the container is filled, and a cylindrical forming member of predetermined diameter carried by the feed screw at the delivery end thereof and operable to form a bore in the material deposited in the container as filling of the latter progresses.

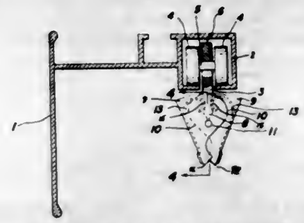
2,589,584
RADAR NAVIGATING APPARATUS FOR AIRCRAFT
Frederick Charles Thompson, Danbury, England
Application July 31, 1947, Serial No. 764,938
In Great Britain October 15, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 15, 1965
5 Claims. (Cl. 343—5)



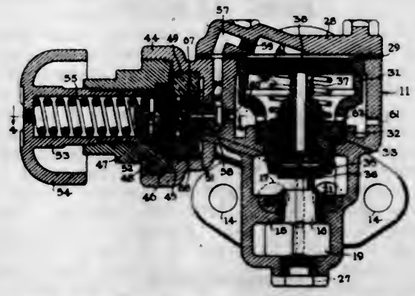
1. In a plan position indicator located aboard an aircraft, a cathode ray tube, beam deflecting means for establishing a rotating field in said tube to thereby rotate the beam, said beam deflecting means including a circuit for establishing a plurality of voltages out of phase with each other and a plurality of beam deflecting elements positioned around the beam, there being one element for each of said voltages, said elements being angularly separated around the beam at angles substantially equal to the phase angles between the respective voltages, means for modifying each of said voltages in accordance with that respective component of the distance that the aircraft travels from a given point that are respectively complementary to the angles of said elements, a source for producing a constantly changing potential, and adjustable means for applying determinable percentages and polarities of said potential to said voltages to thereby modify the latter; said source for producing a constantly changing potential comprising all of the following parts, a tapped resistor, a contact arm for selecting the desired tap, means connected to said resistor to effect changes in the potential when the tap is changed, a ratchet motor for driving said arm to change taps in sequence, a relay in the input of the ratchet motor, and an oscillator for controlling the relay to cause the latter to intermittently close at the frequency of the oscillator.

2,589,585
SUSPENDING ARRANGEMENT FOR CURTAINS
Karel Tomášík, Vsetín, Czechoslovakia
Application February 1, 1949, Serial No. 73,903
3 Claims. (Cl. 16—87.6)

1. Suspending arrangement for curtains and the like comprising a pair of jaw members pivoted together and forming curtain gripping elements below the pivot, a flat elongated spring member secured at one end to each of said jaw members below the pivot thereof, each spring member extending above the pivot and curved inwardly into opposed confronting relation with respect to the other to bias the jaws to closed position, and a suspension member having a depending portion engaged between the confronting portions of the spring members to mount the jaw members on said suspension member and increase the closing tension of the springs on the jaws.



2,589,586
FEED VALVE FOR AIR BRAKES
Erwin C. Vroman, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application October 6, 1949, Serial No. 119,862
3 Claims. (Cl. 50—11)



1. In a pressure-regulating feed valve of the type in which the pressure in the motor of a pressure-motor-operated main supply valve is regulated by two orifices, one of which is a vent and the other of which is a fluid pressure supply, and one of which is variably throttled by valve means responsive to the pressure of the discharge from the main valve, the improvements which comprise locating said two orifices at the remote end of a passage which communicates with said motor through a constriction, and constructing the valve means which controls the variably throttled orifice as a concave right conical valve seat encircling said orifice and having a coacting valve formed with a spherical surface adapted to close against said seat, the valve and seat being relatively so dimensioned that they engage when closed on a circle of tangency whose diameter is a substantial multiple of the diameter of said orifice, and materially less than the maximum diameter of said seat.

2,589,587
DISPENSER FOR ROLLED PAPER WITH AUTOMATIC HOLDING BRAKE
Stephen E. Weakland and Lynn L. Simpson, Portland, Oreg.
Application May 25, 1949, Serial No. 95,319
1 Claim. (Cl. 242—55.5)

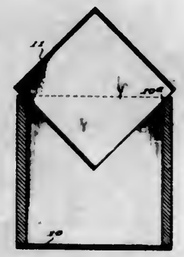
A dispenser for toilet tissue in roll form, comprising a casing including a pair of end walls together with a back and partial top uniting said

end walls, a tie between the lower front ends of said side walls, a floor plate pivotally mounted in said side walls having an upturned rear edge tangent to said back and having its front edge down-turned to form a shoe in front of said tie, a door hinged to the forward edge of said partial top and extending in an inclined manner past



the down-turned shoe, said extending portion having a serrated edge with projecting teeth at each end, said floor plate having its rear portion heavier than its front portion whereby the shoe will normally hold the paper against the back of the inclined part of said door and to be released when the paper is withdrawn.

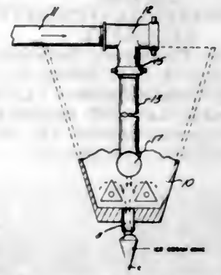
2,589,588
TOY BUILDING BOXES
Jullien F. Winnemore, Forest Glen, Md.
Application June 14, 1948, Serial No. 32,742
1 Claim. (Cl. 46—19)



Amusement apparatus comprising a pair of house building boxes, each box having side, end, and bottom walls and an open top, one of the boxes providing a house body when resting on its bottom wall with its open top uppermost, the other box being square in transverse section and adapted to be supported on the first box with one of its side walls and its opposite ends engaging the respective opposite upper edges of the side walls of the first box, whereby the bottom and one of the side walls of the second box provide the roof of the house, and wherein the side walls of the first box are relatively thick and provided with inwardly and downwardly bevelled surfaces at their upper free side edges at right angles to each other and adapted to be engaged by the correspondingly angled side and end walls of the second box.

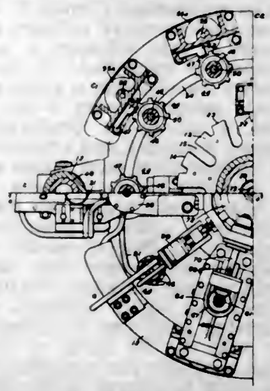
2,589,589
DISTRIBUTING NOZZLE
Steve H. Woodruff, Oklahoma City, Okla.
Application June 10, 1947, Serial No. 753,693
1 Claim. (Cl. 226—93)

In a device for filling from a hopper a row of comparatively small individual containers with a commodity in plastic state, the combination of: a row of spaced outlet tubes in the bottom of said hopper, each tube adapted to direct said commodity into one of said containers therebelow; feeders above said row of tubes in parallel relation thereto, said feeders lying in spaced relation to each other, and being rotatable toward each other to simultaneously convey said commodity to the upper ends of all of said tubes; a horizontal feeder pipe stationarily mounted in said hopper above said feeders in parallel relation thereto; a longitudinally extending elongated outlet opening in the lower wall of said pipe directly above the space between said rotatable feeders, said opening being restricted lat-



erally along its central portion and being wider at each end of the restricted portion to cause the commodity to spread out longitudinally in the pipe, so that the commodity is neatly and evenly extruded through the opening along the entire length thereof, and neatly and evenly introduced into said respective individual containers without protrusion therefrom.

2,589,590
MANUFACTURE OF SLOTTED OIL CONTROL AND LIKE RINGS
Arthur J. Woolcott, Lymington, England, assignor of one-half to Wellworthy Piston Rings Limited, Lymington, England
Application July 2, 1947, Serial No. 758,559
In Great Britain March 11, 1947
1 Claim. (Cl. 90—15.1)

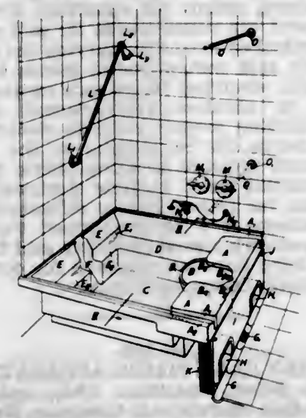


A continuously-operable machine, for cutting angularly-spaced, part-circumferential slots in a ring, comprising a rotor revolvable about a vertical axis and carrying a number of vertical, rotatable receivers, means for driving said rotor with a step-by-step motion whereby each receiver will successively pause at a receiving "station," then at successive cutting "stations," and then at a discharging "station," each of said receivers having a hollow cylindrical portion at its upper end, means for forcing a ring into said cylindrical portion of a receiver when the latter is at the receiving "station," each of said receivers also having a plunger in said cylindrical portion beneath said ring, cam means for operating said plungers in succession, as the associated receivers leave the receiving "station," to support said rings partially-ejected from said cylindrical portions, said cam means also operating said plungers in succession, as the associated receivers reach the discharging "station," to fully eject said rings from said cylindrical portions, a spring which is engaged and stressed by the ring in the receiver as the latter approaches the said discharging "station," the spring flicking the ring to a discharge point when the ring is ejected from said receiver by its associated plunger, means for lowering and pressing a clamping plate on to said partially-ejected ring at each cutting "station" and for raising it on the completion of the cutting operation, a radially-acting slide at each cutting "station," a circular cutter rotatably carried by each slide, means for rotating said cutters, means for simultaneously reciprocating said slides for effecting slotting operations on said rings while held by said clamping plates, and means for indexing each receiver angularly for each cutting "station."

2,589,591
METHOD OF CONTROLLING COLOR AND FLAVOR IN POTATO CHIPS
Paul A. Xander, Nescopeck, Pa., assignor to Wise Potato Chip Company, Berwick, Pa., a corporation of Pennsylvania
No Drawing. Application December 18, 1950, Serial No. 201,501
12 Claims. (Cl. 99—100)

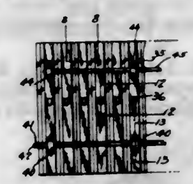
1. A process of controlling color and flavor in potato slices used in making potato chips comprising immersing sliced peeled potatoes in a sulfur dioxide-containing bath, removing the slices and washing with water, immersing the washed slices in an aqueous solution of a reducing sugar and a protein hydrolyzate derived from raw potatoes, and drying the treated slices.

2,589,592
MULTIPURPOSE BATH APPARATUS
Manuel Munar Ocaña, Madrid, Spain, assignor to Sociedad Anonima de Aplicaciones Sanitarias, Madrid, Spain, a Spanish company
Application March 7, 1950, Serial No. 148,027
In Spain April 26, 1949
10 Claims. (Cl. 4—4)



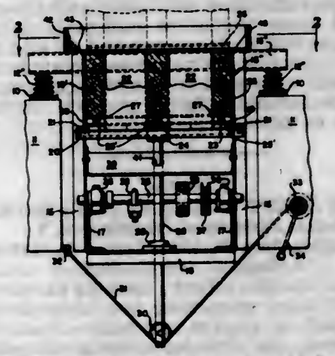
1. Multi-purpose bath apparatus comprising a rectangular bath receptacle having an entirely planar bottom and a seat at the front end of the receptacle, in combination with a small, oblong bidet whose body is almost entirely outside the receptacle and located midway of the upper front of the receptacle, the entire edge of said bidet except a small front sector which projects over the receptacle being covered by the lower face of the seat following the contours of an opening formed in the center of the seat to permit the use of the bidet but leaving a small flange or anti-splash edge; and a separate water supply means and waste connection for the bidet independent of the receptacle.

2,589,593
DRILL CASE
Oscar W. Anderson and Jack M. Anderson, Denver, Colo.
Application August 30, 1948, Serial No. 46,878
6 Claims. (Cl. 206—46)



3. A drill case comprising, a pair of similar members, each having a generally rectangular rigid base and upstanding rigid walls thereabout, each forming a shallow box with a peripheral edge substantially parallel with its base, pivot means securing the boxes together along their edges for movement between an open position of the case and a closed position thereof in which the edges are in substantially abutting relation, a drill holder in each box, means pivotally mounting a holder to opposite walls of a box in such manner that a holder may lie below an edge thereof or lie with a portion thereof above an edge, each holder comprising a plurality of parallel spaced substantially identical rigid tubular pockets, a plurality of drills of different diameter having substantially identical handles at one end of each, the handles being of uniform cross-section throughout their lengths and larger in cross-section than the largest of the drills, the handles being disposed within the pockets, and stop means on the holders for limiting axial movement of the handles into the pockets.

2,589,594
CONCRETE BLOCK MOLDING MACHINE
Ferriss E. Asbell, Arlington, Calif.
Application April 1, 1948, Serial No. 18,312
1 Claim. (Cl. 25—41)



Block molding apparatus, comprising: a pair of side rails; a pan supported on the top of said rails having an opening in its bottom; a frame

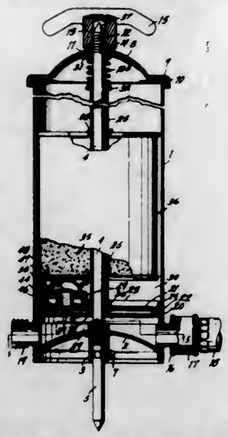
structure dependingly supported from said side rails; a block mold carried by the frame structure and positioned below said pan to receive moldable material through the pan opening; block ejector means carried by said frame structure for ejecting the block from the mold through said opening, and including an operating rod supported for guided vertical reciprocable movements; flexible means for actuating said rod; an eccentric weight supported on said frame for rotation to impart a vibratory motion to the entire assembled frame structure, side rails, and associated parts of the apparatus as a unit; and springs at the ends of said rails resiliently supporting the unitary assembly for universal movement.

2,589,595

APPARATUS FOR DISTRIBUTING SOLUBLE MATERIAL

Irving E. Aske, Muskegon, Mich.

Application September 17, 1947, Serial No. 774,554
9 Claims. (Cl. 299—84)



3. In a spraying apparatus, the combination of a tank provided with a bottom and having inlet and outlet connections adjacent to said bottom, a detachable cover, an annular partition plate seat member disposed above said inlet and outlet connections, a movable partition plate disposed above and constituting a check valve seating on said partition plate seat, the chamber below said plate constituting a mixing chamber and the chamber above said plate constituting a material supply chamber, a tube carried by and projecting upwardly from said plate, said tube opening at its lower end below said plate delivering at its upper end to the upper end of said supply chamber, a biasing spring for said plate in thrust engagement with said tube and said cover, and a pressure actuated discharge valve carried by said plate to move therewith.

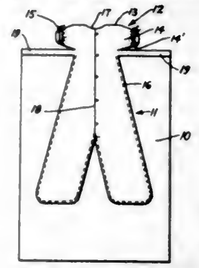
2,589,596

CRIB SHEET WITH A PAJAMA BACK

Bessie Jane Auer, Ossining, N. Y.

Application July 25, 1950, Serial No. 175,798
4 Claims. (Cl. 2—69.5)

1. A combination infant's sleeping garment and a top crib sheet comprising two layers of material adapted to receive the body of an infant therebetween, the first layer being of generally rectangular shape, the second layer having a lower portion with the configuration of the body and pedal extremities of a sleeping garment and an upper portion forming sleeves and having intermediate the sleeves a top opening adapted to receive an infant's head therethrough, the said



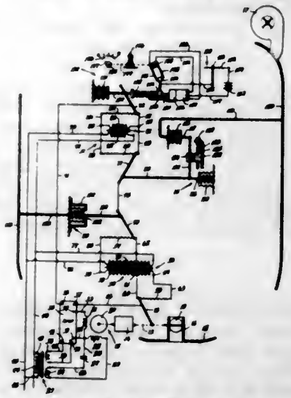
lower portion being affixed about its periphery centrally of the said first layer and extending downwardly from the top edge thereof.

2,589,597

CONTROL APPARATUS

Albert E. Baak, Los Angeles, Calif., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application August 13, 1945, Serial No. 610,583
12 Claims. (Cl. 98—1.5)



1. In a structure subject to varying atmospheric conditions, an enclosed compartment in said structure, means for supplying air to said compartment, air outlet means for said air, electrically controlled means for varying the air pressure within said compartment, means including first variable electrical impedance means for responding to absolute compartment pressure, means including second variable electrical impedance means for responding to the ratio of compartment pressure to atmospheric pressure, means including third variable electrical impedance means for responding to differential pressure in excess of a predetermined value, and electrical network means including said first, second, and third impedance means for controlling said electrically controlled means.

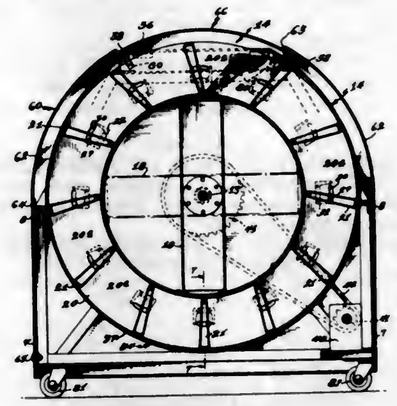
2,589,598

ROTARY CARD FILING APPARATUS

Leland W. Belew, Hamilton, Ohio, assignor to Herring-Hall-Marvin Safe Company, Hamilton, Ohio, a corporation of Florida

Application June 9, 1948, Serial No. 31,873
8 Claims. (Cl. 45—3)

1. In a rotary card filing apparatus including a drum defining a peripheral channel for the reception of file cards and means supporting the drum for rotation about a horizontal axis, partition members mounted on the drum for circumferential pivotal movement within the channel and dividing the channel into a circumferential series of segmental pockets, said partition mem-



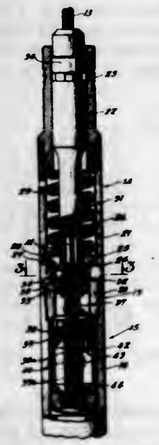
bers including means engageable with the drum for limiting said pivotal movement, and resilient means engageable with the limiting means adjacent the limits of pivotal movement of said members for yieldingly retarding said pivotal movement.

2,589,599

RELEASABLE ROPE SOCKET WITH WEIGHT INDICATOR

John A. Bond and John L. Wiley, Houston, Tex., assignors to McCullough Tool Company, Los Angeles, Calif., a corporation of Nevada

Application December 7, 1946, Serial No. 714,814
8 Claims. (Cl. 73—141)



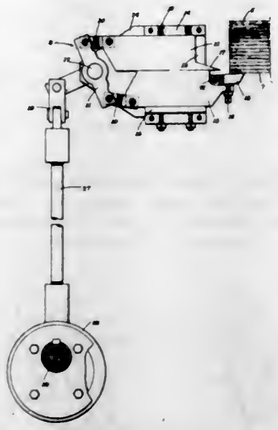
1. In a means for connecting a suspension element to a member which is lowered into a well, the combination of: first and second cooperating connector parts, one of which is connectible to said element and the other of which is connectible to said member; resiliently constituted means connecting said parts together and releasing said parts in response to a predetermined strain therein resulting from stress received from said connector parts and strain responsive means at the lower end of the suspension element for measuring the strain in said resiliently constituted means and an indicator at the top of the well operatively associated with said strain responsive means adapted to indicate strain in said resiliently constituted means as an indication of the stress transmitted from one of said connector parts to the other.

2,589,600

FEEDING DEVICE FOR BOX-PART ASSEMBLING MACHINES

Claude A. Burkholder, Fresno, Calif., assignor to General Box Distributors, Fresno, Calif., a corporation of California

Application April 1, 1947, Serial No. 738,698
4 Claims. (Cl. 271—44)



1. In a feed device for a stack of flat box parts which includes sets of spaced fingers movable in and out and adapted at one end to alternately support the stack; a mounting means for each set of fingers comprising a substantially rectangular frame which includes upper end bars, a guide housing supported from each end bar, a pair of slide blocks slidably mounted in each guide housing in superimposed relation for horizontal movement, adjacent horizontal edges of said blocks being in face to face engagement, one of said fingers projecting from one end of each block, means to reciprocate said blocks alternately in opposite directions relative to each other; means pivoting the lower one of said fingers on the corresponding block, and an adjustment screw mounted in said block below the last named finger and engageable with the under side of such finger intermediate its ends to adjust the latter relative to the other adjacent finger whereby to vary the spacing between the fingers.

2,589,601

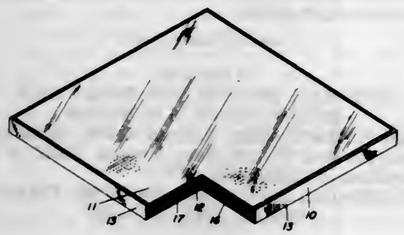
MAGNETIC SLATE

Edward N. Burnett, San Lorenzo, Calif.

Application September 26, 1950, Serial No. 186,861
3 Claims. (Cl. 35—66)

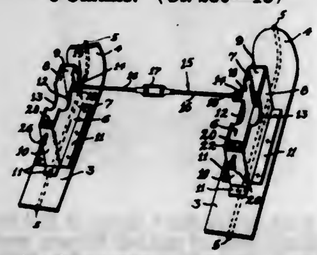
1. A magnetic slate comprising a shallow, flat-bottomed, non-magnetic box, a flat surfaced, non-magnetic, transparent cover for said box, a plurality of small, dense, magnetic particles sufficient in number substantially to cover the bottom of said box in a single layer, and a plurality

of light, non-magnetic particles of a color contrasting with said magnetic particles sufficient



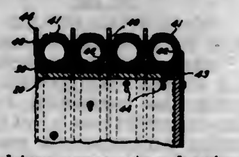
in number substantially to cover in a single layer said layer of magnetic particles.

2,589,602
SKI ATTACHMENT FOR WHEELED VEHICLES
"E" Lee Rae Clark, Spokane, Wash.
Application October 17, 1949, Serial No. 121,760
3 Claims. (Cl. 280—13)



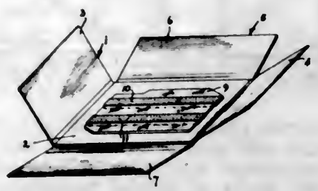
2. An attachment for a wheeled vehicle comprising a ski, a wheel-receiving socket carried by and projecting upwardly from said ski and open at its top and having side walls and front and rear end walls, a clamp formed of resilient metal disposed vertically in said socket adjacent an end wall thereof and having an arm free at its upper end and biased towards the said end wall of the socket and curved longitudinally for fitting about the periphery of a wheel fitted into the socket through the upper end thereof, and a thumb screw threaded through an opening in the rear wall and engaging the said arm of the clamp to force the said arm to a gripping position.

2,589,603
CRUSHING MACHINE
Herman Cohen, Brookline, Mass.
Application April 26, 1949, Serial No. 89,616
7 Claims. (Cl. 241—102)



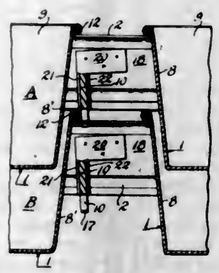
1. Ore crushing apparatus having a pair of rotatable rolls at least one of which comprises a shaft, a rigid drum, means carried by the shaft for securing the drum in fixed and immovable relation thereto, a plurality of rigid, annular crushing members disposed in spaced parallel relation to each other along the exterior of the drum, and means supporting said members in said relation, said means comprising a resilient layer surrounding the drum and engaging the bottoms of said members, and annular, removable, resilient elements disposed between the sides of adjacent members, for yieldingly supporting the respective crushing members in spaced relation to the surface of the drum and to each other.

2,589,604
PACKAGE AND METHOD OF PACKAGING
Gale C. Cunningham, Inglewood, and Robert Weldon, Wilmington, Calif., assignors to North American Aviation, Inc.
Application March 11, 1949, Serial No. 80,814
1 Claim. (Cl. 206—62)



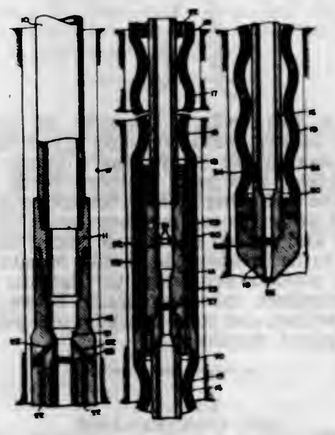
A packaging arrangement for a sheet of glass comprising a container of yieldable material, strips of tape having adhesive applied to two sides thereof attached to sides of the glass sheet and to corresponding sides of said container, the edges of said glass sheet being spaced from the corresponding edges of said container.

2,589,605
BAKE PAN UNIT
Jesse L. Darnell, Milford, Ohio, assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application January 14, 1950, Serial No. 138,653
5 Claims. (Cl. 220—23.6)



1. A pan unit comprising a plurality of spaced pans said unit being adapted for stacking upon another unit with the pans thereof nesting in the pans of another pan unit, each of the pans of said unit having side and end walls tapering from the top to the bottom thereof, bands extending across the ends of said pans and secured thereto to hold said pans together as a unit, cross-braces secured to adjacent top edges of adjacent pans, a bar secured at its ends to said end bands and extending parallel to and lying substantially in the vertical plane containing a top edge of one of the pans of the unit, a second bar secured at its ends to said bands and extending parallel to and lying substantially in the vertical plane containing the opposite top edge of a different pan of the unit, the lower edges of the portions of the bars between said ends being at a level below the lowermost edges of said bands, said bars having notches in their lowermost edges corresponding in location to said braces, said bars and the notches therein cooperating with the cross-braces of said other unit to space the individual pans of a unit from the pans of said other unit when nested therein and hold said pans against longitudinal and lateral movement when a pan unit is stacked upon another unit.

2,589,606
FORMATION AND CASING TESTER
Thomas B. Dunn, Long Beach, Calif.
Application March 4, 1949, Serial No. 79,583
6 Claims. (Cl. 166—1)

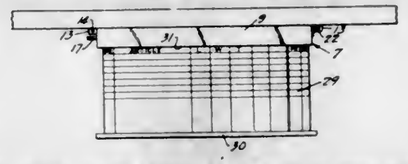


1. A flow tester comprising a body adapted to be positioned in a well having vertically spaced packers thereon, means providing for ingress of well fluid from between the packers to the interior of the body, a seat on the body, a fluid receiving chamber adapted to seat upon said seat and having means for forming a fluid-receiving connection with the ingress-providing means, an upwardly opening, downwardly closing check valve in the lower end of the chamber, a breakable disc thereabove, a go-devil releasably suspended in the chamber adapted upon release to break the disc and thus allow fluid in the well between the packers to enter the chamber past the check valve, and means for effecting a release of the go-devil.

2,589,607
MATCH STRIKING COMPOUNDS
Herbert Ellern, Ferguson, Mo., assignor to Universal Match Corporation, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 9, 1946, Serial No. 653,445
3 Claims. (Cl. 52—28)

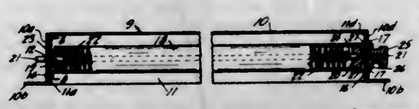
3. A striking compound consisting essentially of an alkaline caseinate, red phosphorus, zinc oxide, powdered glass and water and in which compound the water constitutes from 20% to 40% of the total mixture.

2,589,608
ROLLER CHART
Melville E. Foster, Minneapolis, Minn.
Application May 6, 1948, Serial No. 25,440
1 Claim. (Cl. 242—107)



A chart roller assembly having in combination, a casing having first and second opposed end members and an open longitudinal portion, said first end member having an aperture therethrough to receive a roller rod, said second end member having a slot therein entrant from an edge thereof and communicating with said open longitudinal portion, a roller rod, a chart carrying roller rotatably mounted on said roller rod, a torsion spring connected at one end to said roller rod and at its other end to said roller, said rod having a first end projecting beyond one end of said roller and slidably removably receivable in the aperture in said first end member, and said rod having a second end projecting beyond the other end of said roller and radially slidable through said slot in said second end member, and cooperating releasable inter-engaging means carried by the second end of said rod and said second end member, the part of said inter-engaging means carried by the second end of said rod being fixedly secured thereto and forming a handle for turning said rod relative to said roller to tension said spring whereby the spring can be properly tensioned, said rod fixed from turning after said spring is tensioned, so arranged that the roller and rod can yet be removed when desired from the casing.

2,589,609
ROLLER CHART
Melville E. Foster, Minneapolis, Minn.
Application August 17, 1949, Serial No. 110,691
4 Claims. (Cl. 40—85)



1. In a roller chart, a roller support including an end plate with a roller shaft guide recess formed therein, a roller shaft extending through and rotatable in said recess, said shaft having limited axial movement relative to said end plate and having a fixed end member having a hook-like portion extending toward said end plate, and said end plate having an aperture in which said hook-like portion is removably received.

2,589,610
FISHING SIGNAL
John W. Fowler, West Newton, Mass.
Application February 20, 1947, Serial No. 729,720
4 Claims. (Cl. 43—17)

1. A fishing signal comprising an upright standard, a flag and staff assembly pivotally mounted at an intermediate point on said standard to rock about a horizontal axis from a normal position alongside the standard, the staff assembly being unbalanced with the flag at the lighter end whereby the staff tends to swing the flag

end upward, means for giving said staff an initial impulse when released from its normal position to rock about its pivot, said means consisting of a leaf spring mounted on said standard



in such a position that it is distorted by said staff when the staff is in its normal position, and means positively holding said staff in its normal position and operable to release said staff for rocking movement.

2,589,611

COAT-TREE FOR PASSENGER VEHICLES

Colin B. Hay, San Jose, Calif., assignor of one-half to Thomas Bellmont Keesling, Los Gatos, Calif.

Application September 20, 1949, Serial No. 116,775
13 Claims. (Cl. 224—29)



1. The combination with a standard for a coat-tree or the like for use interiorly of the cab of closed vehicles of means for securing said standard in a substantially erect position within the cab of a closed vehicle comprising yieldable means on one end of said standard adapted to rest upon a stationary surface such as the floor of the vehicle for exerting an upward thrust against said standard when said yieldable means is depressed, and a fastening means on said standard in the upper region thereof adapted to engage a relatively fixed bead or projection within the cab of said closed vehicle above said stationary surface in the latter for counteracting the upward thrust exerted upon said standard by said yieldable means to thereby bindingly secure said standard between said floor surface and said relatively fixed bead or projection above the same.

2,589,612

FISH GAFF

Bert Lee Herrington, deceased, late of Klamath Falls, Oreg., by Lillie A. Herrington, administratrix, Klamath Falls, Oreg.

Application September 13, 1947, Serial No. 773,782
4 Claims. (Cl. 294—99)



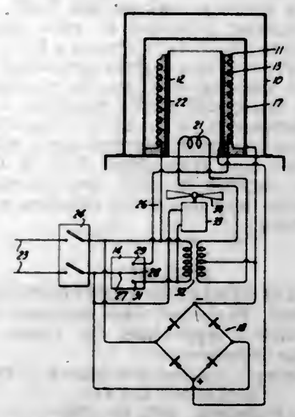
4. In a fish gaff, a plurality of yieldably mounted gaffing hooks normally urged together, each of said hooks comprising a shank and a hook portion, said hook portions being in the same plane and being pointed toward each other, a pair of slotted guard members being yieldably mounted and spaced apart, said guard members adapted to lie between the shanks of said hooks, the hook portions projecting through the slotted guard members into the space between said guard members and to be operated independently of said guard members.

2,589,613

ION CONTROLLER

William Wesley Hicks, San Francisco, Calif., assignor to Ionics, Inc., San Francisco, Calif., a corporation of California

Application June 19, 1950, Serial No. 169,051
6 Claims. (Cl. 250—43)



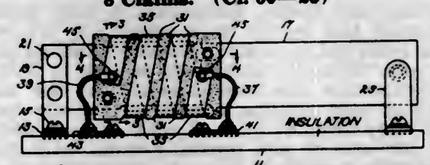
1. In a device for controlling the ion concentration in a room in atmospheric air at atmospheric pressure, a first apparatus comprising means for producing ions of both signs in a predetermined zone in atmosphere, charged grid means for selectively controlling at atmospheric pressure ions of the sign opposite to the sign of the grid, and means for passing a stream of air first through said zone and then through said grid to carry a substantial number of said ions to said grid whereby the ions of the same sign as the grid will be carried through and ions opposite to the sign of the grid will be collected by said grid, said grid being positioned to extend across the path of air moving in said stream, and a second apparatus comprising a resistance filament emitter capable of producing ions of both signs in air adjacent thereto, a positively charged open-ended sleeve electrode surrounding said emitter and creating an electric field between said emitter and said sleeve whereby negatively charged ions will move in said electric field toward said electrode, said means for passing a stream of air also being adapted to cause a draft of air to be passed through said sleeve and electric field to divert said negative ions from their course toward said sleeve electrode to a point beyond the open end of the sleeve electrode through which the air discharges, and common control means for supplying a charge to said grid and said means for producing ions in said first apparatus or to said sleeve electrode and said filament emitter in said second apparatus.

2,589,614

CONSTRUCTION FOR ELECTRIC HEATERS FOR FLEXING BARS

Murray Ireland, Elgin, Ill., assignor to McGraw Electric Company, Elgin, Ill., a corporation of Delaware

Application July 19, 1946, Serial No. 684,881
8 Claims. (Cl. 60—23)



2. The combination with a flexible bar, of an electric heating device for heating said bar, at least a part of said heating device lying along side said bar in spaced relation to said bar and opposing a substantial portion of the length of said bar, and fastener elements fastening said heating device to said bar and supporting it thereon in spaced relation, each fastener having connections with both said heating device and said bar and the connection with one thereof being loose so as to permit limited movement of said bar with respect to said heating device when the bar flexes.

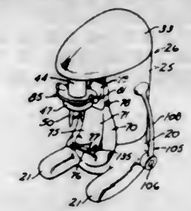
2,589,615

MIXING MACHINE

Allen F. Kipper, Glendale, Calif., assignor to Arden Farms Co., Los Angeles, Calif., a corporation of Delaware

Application May 21, 1948, Serial No. 28,295
21 Claims. (Cl. 259—108)

1. A mixing device for mixing a substance in a container, including: a vertically movable supporting means for receiving and supporting the container; mixing means provided with a rotary agitator element fixedly disposed above said supporting means and adapted to be disposed within the container and to stir the contents of the container when said supporting means is moved toward said mixing means; power means for rotating said agitator element; switch means for selectively energizing and de-energizing said power means; pivoted actuating means for actuating said switch means; pivoted detent means normally engaged with said actuating means and operative to prevent pivotal movement of said actuating means to switch actuating position, said detent means being adapted to be pivoted in response to the placing of the container on said supporting means; and spring means for pivoting said actuating means when released by said detent means and upon predetermined upward movement of said supporting means so as to actuate said switch.

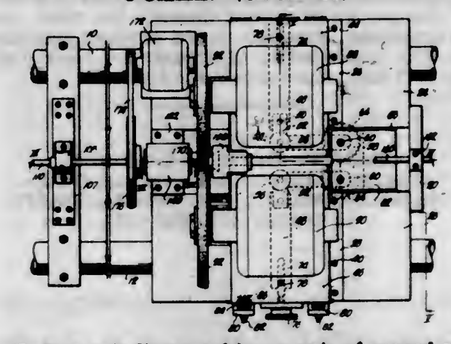


2,589,616

FINISHING MACHINE FOR ELONGATED TAPERED ARTICLES

Donald M. Kitterman, Kansas City, Kans.

Application April 25, 1949, Serial No. 89,403
8 Claims. (Cl. 51—88)



7. In a grinding machine, a pair of spaced supports; a block for each support respectively and carried thereby for reciprocable movement of the blocks toward and away from each other; a grinding wheel carried by each block respectively; yieldable means on each support respectively and engageable with the blocks thereof for holding the blocks biased toward each other; and a roller attached to each block respectively and adapted to receive a movable template therebetween to separate the blocks against the action of said yieldable means to move the grinding wheels apart.

2,589,617

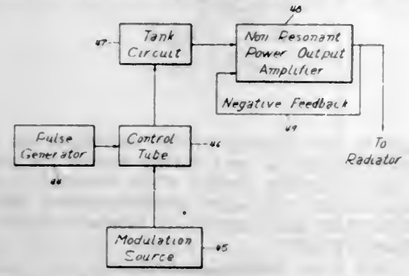
PULSE AMPLITUDE MODULATION COMMUNICATION SYSTEM

Alfred C. Kowalski, Fresno, Calif.

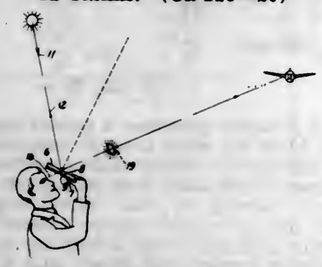
Application July 7, 1947, Serial No. 759,422
4 Claims. (Cl. 250—6)

1. A system for communicating intelligence on a narrow frequency band by the transmission and reception of regularly spaced pulses differing in amplitude in response to intelligence impressed thereon each of which pulses consists of a series of homogeneous electromagnetic waves comprising a source of radio frequency electromagnetic waves of constant form, amplitude and frequency, means for alternately blocking and

transmitting the radio frequency energy in pulses each consisting of a plurality of radio frequency waves of substantially identical form and amplitude, the waves of the pulses being of common frequency and each pulse starting and stopping coincident with zero potentials of the radio frequency wave of which it is formed, means for changing the amplitude of the radio frequency waves between transmitted pulses in response to intelligence to be transmitted, a receiving antenna for the transmitted pulse, an untuned amplifier coupled to the antenna consisting of capacitively coupled stages in which each stage comprises a cathode follower directly connected to a voltage amplifier, self-damping filter electrically connected in shunt relation to the untuned amplifier whereby a high impedance is presented to predetermined frequencies and other frequencies by-passed through the filter, and an amplifier connected to the untuned amplifier for the amplification of frequencies encountering said high impedance in the filter.



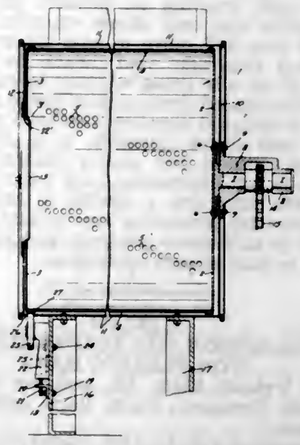
2,589,618
MIRROR SIGNALING DEVICE
Charles Horace Learned, Carmel, Calif.
Application May 11, 1944, Serial No. 535,107
11 Claims. (Cl. 116—20)



1. A signalling device designed for free manipulation with reference to a moving target, comprising, a mirror adapted to receive light from a distant source in order to project the light on the target and provided with a window, a retro-directive reflector adjacent said window and in the path of the light, and a surface positioned in the path of the return light from said retro-directive reflector and adapted to reflect the light to the eye on a line nearly coinciding in direction with light reaching the eye from a target in the path of the light projected by the mirror.

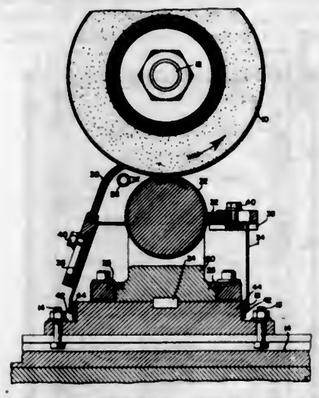
2,589,619
ATTACHMENT FOR LAUNDRY MACHINES
John H. Leef, Minneapolis, Minn.
Application April 9, 1949, Serial No. 86,480
1 Claim. (Cl. 259—3)

In a device of the class described, a generally cylindrical housing, a horizontally-disposed cylindrical tumbling drum within said housing, means journalling the rear end of said tumbling drum to said housing, said housing and drum having aligned openings in their forward ends for the insertion of material to the inside of said drum and removal of material therefrom, a supporting leg for said housing, said leg being spaced rearwardly from the forward ends of said housing and tumbling drum, said housing being provided with aperture means intermediate said leg and the front end thereof, means for rotatably supporting the front end of said tumbling drum, said means comprising a base member secured fast to the front supporting leg below the front end of said housing and tumbling drum, a yoke vertically adjustably secured to said leg intermediate the base member and the under side of said housing, a pair of laterally-spaced rollers journalled on said yoke on axes parallel to the axis of said tumbling drum, said rollers projecting upwardly through said aperture means and making peripheral supporting engagement with the under side of said tumbling drum, and adjusting means between said base member and said yoke for varying the height of said rollers.

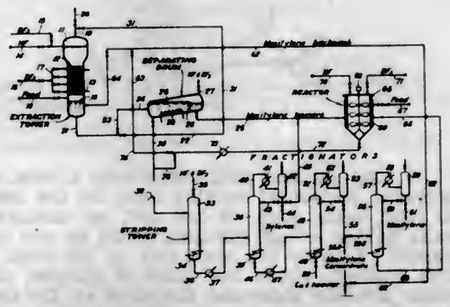


2,589,620
APPARATUS FOR CLEANING, DRESSING, AND GRINDING WHEELS
Guy H. Leffel, Springfield, Ohio, assignor to The Thompson Grinder Company, Springfield, Ohio, a corporation of Ohio
Application May 3, 1947, Serial No. 745,807
3 Claims. (Cl. 125—11)

1. An apparatus for providing a clean contact surface area between a fluid cooled and lubricated rotatably mounted grinding wheel to be dressed and a crushing roll, comprising a movable table member, a frame member mounted on said table member, a crushing roll rotatably mounted on said frame member and having a contact surface for intimate pressured engagement with a surface of said grinding wheel to shape the same, a frame element releasably mounted on said frame member and having an upper portion thereof spanning said frame member, first and second opposed legs of said frame element supporting said upper portion of said frame element, first brush means mounted on said first leg and adapted to engage said crushing roll during rotation thereof, and second brush means supported by and extending substantially vertically upwardly from said second leg and adapted for engagement with said grinding wheel during rotation thereof.



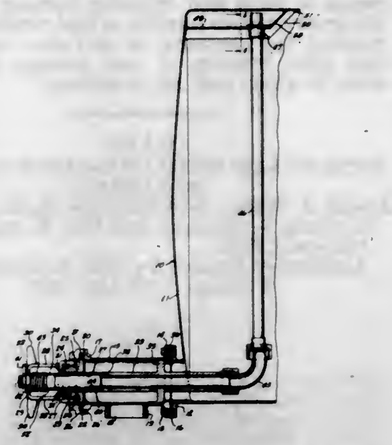
2,589,621
MESITYLENE MANUFACTURE
Arthur P. Lien, Hammond, Ind., and David A. McCaulay, Chicago, Ill., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 15, 1948, Serial No. 65,496
10 Claims. (Cl. 260—668)



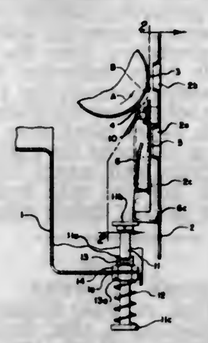
1. In a process for the preparation of mesitylene by liquid-phase isomerization of a trimethylbenzene isomeric therewith in the presence of liquid hydrogen fluoride and BF_3, the improvement which comprises effecting said isomerization at a temperature between about 150° F. and about 400° F. in the presence of at least about 15 percent by volume of liquid hydrogen fluoride and at least about 0.75 mol of BF_3 per mol of said trimethylbenzene, whereby a reaction product is produced containing mesitylene in a proportion greater than the equilibrium proportion thereof in the absence of BF_3 and in a proportion equivalent to at least about 75 percent of the trimethylbenzenes contained in said reaction product, and thereafter separating mesitylene from said reaction product.

2,589,622
SELF-VENTING VALVE
John B. McCabe, Milwaukee, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application June 28, 1948, Serial No. 35,589
14 Claims. (Cl. 222—481.5)

6. A self-venting liquid valve comprising: a tubular fitting having an open end, said fitting being adapted to be attached to a tank with the open end thereof in communication with the interior of said tank, said fitting being formed with an internal valve seat and with an unobstructed discharge opening outwardly of said valve seat; a movably mounted tubular stem projecting through a wall portion of said fitting and having a portion within said fitting provided with a valve which is adapted to coact with said valve seat, said stem being formed with a vent opening which is so located that it is positioned within said fitting for communication with said fitting discharge opening when the valve is closed, and is positioned externally of said fitting wall portion when said valve is open; a vent conduit within said tank connected to said stem inwardly of said valve, and means for controlling said vent opening.



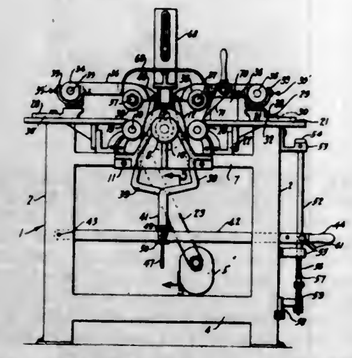
2,589,623
MILEAGE SERVICE INDICATOR FOR MOTOR VEHICLES
Mortimer M. Merritt, Santa Barbara, and John W. Dadisman, San Diego, Calif.; said Dadisman assignor to said Merritt
Application June 13, 1949, Serial No. 98,646
5 Claims. (Cl. 116—129)



1. In a mileage service indicator for motor vehicles, a plate having an opening therein, a conventional speedometer having rotatable mileage indicating drums, a projecting pin secured

to and extending from the arcuate surface of one of said mileage indicating drums, a trip lever engageable by said projecting pin, a service indicator member movable adjacent said opening and having means on which said trip lever is pivotally mounted, resilient means tending to move said service indicator member, whereby engagement of said pin with said trip lever releases said service indicator member and permits said resilient means to force said indicator member and said trip lever to move relative to said window for indicating the necessity of servicing the vehicle with each rotation of said mileage indicating drum to which said pin is secured.

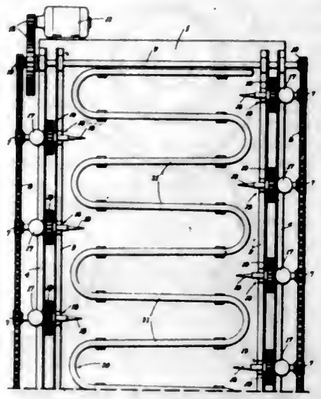
2,589,624
ROTARY SAW WITH SWINGABLE TENSION ROLLERS
Joseph J. Miller, San Francisco, Calif., assignor to Philip A. Sussman and Ellis H. Jacobs, San Francisco, Calif.
Application January 30, 1948, Serial No. 5,230
2 Claims. (Cl. 144—247)



1. In a rotary saw of the character described, a main frame having two side frames, a pair of brackets mounted on each side frame, bearings carried by the brackets, frames swingable in the bearings and having free ends projecting toward and in close proximity to one another, tension rolls mounted in the free ends of the swingable frames, links supporting the free ends of the swingable frames and extending downwardly and having slotted lower ends, an arm extending transversely across the main frame and having one end pivoted in one side frame and a free end projecting beyond the other side frame, a plate secured upon the underface of the arm, brackets projecting from the links above the slotted ends, bolts suspended in the latter brackets and passing through the plate, springs surrounding the bolts below the plate and bearing on the underside of the plate, nuts threaded on the lower ends of the bolts for individually tensioning the springs, and means for supporting the free end of the arm with freedom of upward movement against spring pressure.

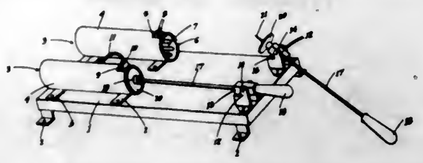
2,589,625
CORN ROASTER
Clifton J. Paul, Del Paso Heights, Calif.
Application September 24, 1948, Serial No. 50,938
4 Claims. (Cl. 99—421)

1. A food roaster comprising a base, a cooking unit on the base, a rotary prong normally overhanging the cooking unit from one side, a journal in which the prong is supported, means mounting the journal for motion to tilt the prong to an upwardly inclined position, a gear on the prong, and a driven pinion mounted to mesh



with the gear only when the prong is in normal position.

2,589,626
ROASTER
Clifton J. Paul, Del Paso Heights, Calif.
Application July 28, 1950, Serial No. 176,290
2 Claims. (Cl. 99—421)

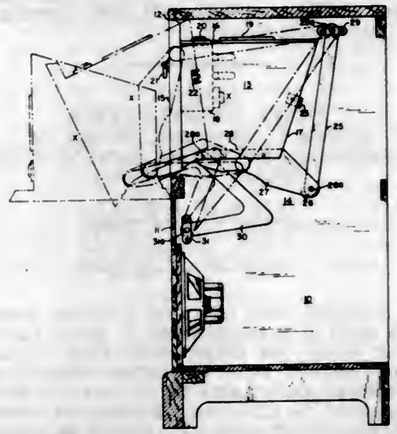


1. A food roasting unit comprising a base, an elongated horizontal cooking oven on the base, the oven being open at one end, an elongated shank having a food engaging prong on one end adapted to enter the open end of the oven, a block through which the shank is slidable, and means pivotally mounting the block on the base on a horizontal transverse axis and at a point back from the oven for swinging of the block and shank from a horizontal position centrally alined with the oven to an upstanding position for the placement and removal of food on the prong when the shank is retracted; the mounting means including spaced ears and the bearing block being pivoted intermediate its ends between said ears, and a stop between the ears to limit down-swing of the block to a substantially horizontal position whereby to assure the alining of the shank with the oven.

2,589,627
LINKAGE SYSTEM FOR A WAVE-SIGNAL RECEIVER OF THE TILT-OUT TYPE
Eugene J. Polley, Berwyn, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application June 10, 1950, Serial No. 167,475
7 Claims. (Cl. 312—7)

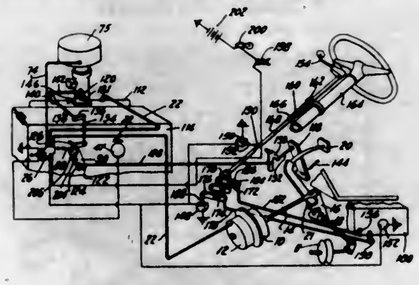
1. In a tilt-out type of wave-signal receiver including an apertured cabinet and a chassis-containing compartment, a linkage system supporting said compartment for movement from an initial position within said cabinet to either an operating or a servicing position outside of said cabinet, said linkage system comprising: a first

link pivoted at one end to a point on said compartment below and behind the center of gravity when said compartment is in said initial position and pivoted at its other end to a point of said cabinet above said center of gravity and behind



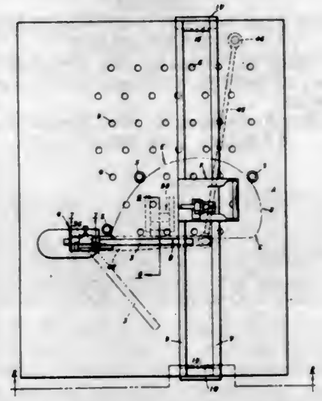
said first-mentioned point; and a second link pivoted at one end to a point on said cabinet below and in front of said center of gravity and pivoted at its opposite end to a point of said compartment displaced vertically and to one side of said last-mentioned point of said cabinet.

2,589,628
CLUTCH CONTROL MECHANISM
Harold W. Price, Bradenton, Fla., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application March 10, 1945, Serial No. 582,143
7 Claims. (Cl. 192—.076)



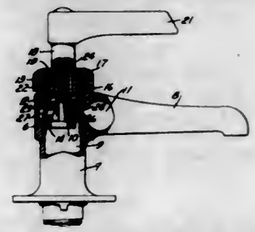
1. In an automotive vehicle provided with an accelerator, a throttle, a generator, a shift lever mounted adjacent the steering wheel, a vehicle speed responsive governor and a friction clutch having a driven element, a power means for controlling the operation of said element including a two-stage pressure differential operated motor, the power element of which is operably connected to said driven clutch element, valve means for controlling the operation of said motor and means for actuating and controlling the operation of said valve means including a generator controlled electromagnet for controlling a part of said valve means and further including a solenoid and a spring for actuating another part of said valve means, together with electrical means for controlling the operation of said solenoid including a shift lever operated switch mechanism.

2,589,629
MECHANICAL LEAD SLAPPER
Roger S. Raymond, Redondo Beach, and Gerald Woodward McGee, Los Angeles, Calif., assignors to North American Aviation, Inc.
Application July 17, 1950, Serial No. 174,280
3 Claims. (Cl. 153—39)



1. A sheet metal forming machine comprising a work supporting table; a die on said table; means for securing and positioning formed sheet metal on said die; a malleable impact member pivotally mounted on said table; resilient means interconnected with said impact member for urging said member against said sheet material and die; and means for intermittently pivoting said impact member away from said die and thereupon releasing said member whereby said resilient means drives said impact member against said sheet material and die.

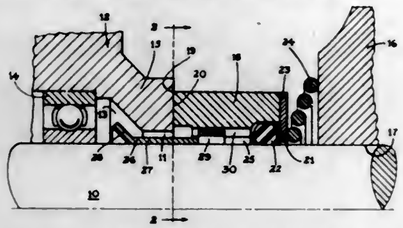
2,589,630
VALVE STRUCTURE FOR FAUCETS
Stephen Samaras, Oakland, Calif., assignor to Samaras Valve Corporation, Oakland, Calif., a corporation of California
Application April 1, 1947, Serial No. 738,648
2 Claims. (Cl. 251—27)



1. In a faucet or similar flow control device comprising a housing enclosing an inlet duct for fluid and including a body element provided with a port communicating with said inlet duct and bordered by a plane seating surface disposed transaxially of said port, a ring of yieldable material concentric with said port having a portion thereof interposed between confronting surfaces of said housing and body element to provide a fluid-tight seal therebetween, said ring having another portion thereof exposed in said duct to provide a seating surface disposed in planar offset relation to the port seating surface, means on said ring seating surface for deflecting fluid entering said duct away from said surface, and

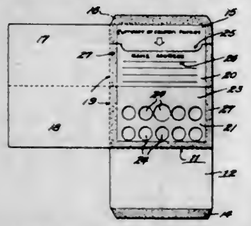
a movable valve overlying said port and having a seating surface complemental to and engageable successively with said ring seating surface and said port seating surface when said valve is moved toward said port.

2,589,631
DRIVE FOR WASHER OF MECHANICAL ROTARY SEALS
Carl E. Schmitz, Chicago, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application November 21, 1947, Serial No. 787,384
5 Claims. (Cl. 286—11.15)



1. In a rotary seal device for relatively rotatable structures one of which is a radially inwardly extending partition, said device having a sealing washer on one side of the partition and contacting the partition with a running fit and a flexible sealing element for sealing the washer with respect to the other structure, said washer, partition and sealing element comprising a fluid-tight seal between the structures to form two chambers; a lubricant in one chamber, an oil slinger in the lubricant chamber on the side of the partition opposite the washer, said slinger being rotatable with the other structure, and an axially slidable, rotary driving connection between the slinger and sealing washer.

2,589,632
COMPOSITE MAILING ENVELOPE
Harold S. Scott, Alliance, Ohio
Application October 18, 1950, Serial No. 190,691
4 Claims. (Cl. 229—92.8)



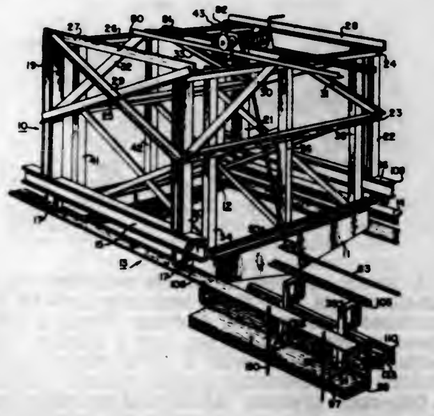
1. A composite forwarding and return postal envelope, comprising: a back-forming section of rectangular configuration, a primary-address receiving section foldably joined with said back section along one of the longitudinal margins of the latter, a return address-bearing section joined with said back-forming section along its longitudinal margin opposite to that with which said primary-address section is joined, communication-receiving sections having inner side regions foldably joined with the back and return address sections along one side of each of the latter sections, rectangular coin-carrying and pocket-forming sections projecting laterally from and foldably joined with the opposite side margins of the back and return sections as regards said communication-receiving sections, said coin-carrying and pocket-forming sections having top surfaces marginally coated with an adhesive for uniting said last-named sections with the back and return address sections when said envelope is operatively folded, and a perforate coin-receiving card joined with said coin-carrying section on one side thereof.

2,589,633
PANEL CONSTRUCTION
William L. Shepheard, Norfolk, Va.
Application April 13, 1949, Serial No. 87,239
2 Claims. (Cl. 189—34)



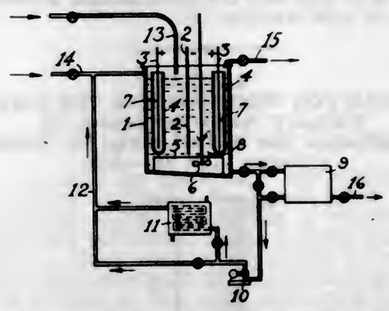
1. A double panel for metal buildings comprising a shell of a single sheet of metal having a tongue along one longitudinal edge, a pair of spaced parallel sides extending laterally from said tongue and terminating in inwardly crimped edges along the other longitudinal side thereof, a U-flanged side channel strip having its free edges engaged beneath the inwardly crimped edges of said shell, and end pieces fixedly engaged within the ends of said shell, said end pieces each comprising an elongated strip of metal terminating in a tongue at one end, said tongue abutting the inner side of the tongue of said shell, flanges along each longitudinal edge of said strip and closely engaging the inner sides of said shell, and a flange at the other end of said strip engaging the inner side of the web of said U-flanged side strip.

2,589,634
APPARATUS FOR LAYING CONCRETE
Charles H. Shook, Dayton, Ohio
Application December 23, 1949, Serial No. 134,740
9 Claims. (Cl. 61—63)



1. Apparatus for forming the ground slab of a drainage line including, wall forms positioned in spaced parallel relationship, each of said wall forms comprising an outer wall including track means carried by the outer wall, support means forming a part of said outer wall and projecting to one side thereof opposite that of said track means on the said wall, an inner wall supported by said support means in spaced relationship to said outer wall and having the lower edge thereof positioned above the lower edge of said outer wall a distance equal to that required to establish a predetermined thickness of a ground slab, a quadrilaterally arranged carriage frame having rollers supporting the frame on said track means for movement therealong, a supplemental frame structure supported on said carriage frame and having structural members at each side of said support means whereby to straddle said support means, a forming blade for working the fluid concrete suspended beneath said supplemental frame and carried on the innermost of said structural members thereof with the side edges of said blade adjacent said inner wall in close proximity thereto with the lower corner edges of said blade positioned at the level of the lower edge of said inner wall, and guide means included with said support means above said track means providing means to guide said carriage along said track means.

2,589,635
ELECTROCHEMICAL PROCESS
Gilbert B. L. Smith and Morton W. Leeds, Brooklyn, N. Y., assignors to Polytechnic Institute of Brooklyn, Kings County, N. Y.
Application March 13, 1945, Serial No. 582,549
6 Claims. (Cl. 204—74)



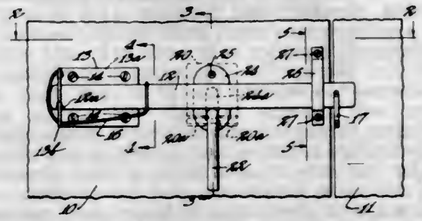
1. The process which comprises electrolytically reducing a nitro-alkanol to the corresponding alkanol hydroxylamine in the presence of an aqueous inorganic acid catholyte, using both positive and negative electrodes consisting essentially of high overvoltage metal having an overvoltage value at least as high as that of tin, and a catholyte consisting essentially of an aqueous solution of sulfuric acid of about 3 to 10% concentration by weight, at a temperature of about 0 to 35° C.

2,589,636
SHOOTING GARMENT
Howard O. Smith, Des Moines, Iowa
Application December 29, 1949, Serial No. 135,560
5 Claims. (Cl. 2—94)



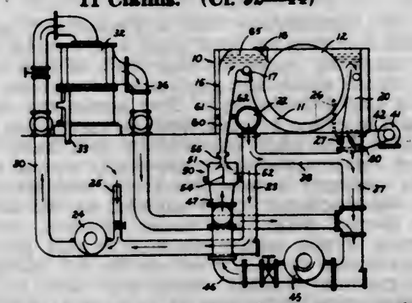
3. In a shooting garment, an elbow pad secured to the exterior of at least one sleeve of said garment and said pad comprising; a first fabric pad, a second fabric pad; said first fabric pad being similar in shape to and larger than said second fabric pad; said pads being arranged concentrically adjacent each other with said larger pad adjacent the elbow of the sleeve of said garment, a cupped molded flexible moisture impervious cover, and a means for securing said cover over said fabric pads and to the sleeve of said garment; said cover holding said fabric pads in an elbow fitting shape.

2,589,637
DOOR LATCH
Alex Sorenson, Cambridge, Minn.
Application July 11, 1947, Serial No. 760,339
2 Claims. (Cl. 292—226)



1. A latch structure for a door having in combination, a plate having a portion adapted to be secured to the side of said door, said plate having a second portion extending outwardly of said door, said second portion having a vertical slot therein and being provided with a pair of notches respectively at its top and bottom, a latch bar having one end extending through said slot and having a notch at its lower side embracing said second portion at the bottom of said slot, said bar thus being movable vertically in said second portion, said bar being adapted to cooperate with a stationary keeper, means mounted on said door and having handles at both sides of said door for lifting said latch, and a spring comprising a resilient small rod or wire having one end bent inwardly and disposed in said notch in the upper end of said second portion, said spring extending downwardly to be disposed in said lower notch and about the lower end of said second portion, said spring thence extending outwardly of said second portion and longitudinally of said latch bar and having its free end portion extending upwardly and over the top of said latch bar being disposed thereon, and said spring acting to urge said bar downwardly.

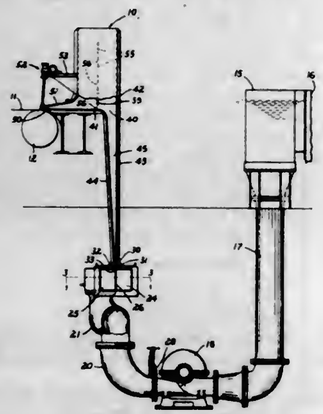
2,589,638
PAPER MACHINERY
Stephen A. Staege, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application July 19, 1946, Serial No. 684,980
11 Claims. (Cl. 92—44)



1. In a stock supply system for a paper making machine including a forming member, the combination of means forming a slot orifice extending across the full width of said machine, means for

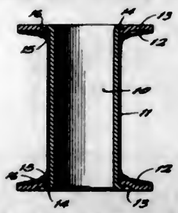
discharging stock through said orifice at a definite and substantially uniform velocity and with substantially uniform distribution of fiber across the entire extent of said orifice, a chamber corresponding in width to that of said orifice and of substantially greater cross-sectional area than said orifice from which the stock is delivered directly onto said forming member, and walls forming an inlet passage connecting said orifice with said chamber to conduct said stock from said orifice to said chamber, said passage being of substantially the same width as said orifice and said forming member, said passage walls diverging at a predetermined small angle in the direction of flow from said orifice to provide with said orifice a Venturi passage for dissipating with minimum turbulence the velocity energy of said stock entering said passage through said orifice, said diverging passage continuing with substantially undiminished effective flow area up to said chamber for delivery of said stock to said chamber with minimum turbulence and flocculation, and said angle of divergence between said passage walls being not more than 10° to maintain said stock between said orifice and said chamber in continuous advancing motion to said forming member at a decelerating velocity which is substantially constant across each cross-sectional area of said passage.

2,589,639
PAPER MACHINERY
Stephen A. Staege, Hamilton, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application October 17, 1947, Serial No. 780,456
6 Claims. (Cl. 92—44)



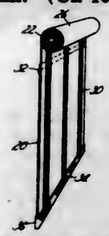
1. In combination with a Fourdrinier paper machine having an open head box, a stock inlet for supplying paper making stock to said head box under controlled conditions of uniform velocity and distribution of fiber across the width of said machine without creating turbulence and objectionable eddy currents in said head box which comprises a pair of oppositely tapered conduits arranged transversely across said machine and each adapted to be supplied at the larger end thereof with stock under pressure, means forming a slot orifice common to said pair of conduits and extending across the full width of said machine through which said stock is discharged from said conduits at a predetermined velocity of flow with substantially uniform distribution of fiber across the width of said machine, said orifice being of restricted cross-sectional area relative to said conduits to maintain said predetermined velocity substantially higher than the velocity of flow of said stock in said conduits and substantially uniform across the width of said machine, walls forming an inlet passage of substantially the same width as said orifice and said head box for conducting said stock from said orifice to said head box, said walls diverging in the direction of flow from said orifice to said head box at a predetermined small angle of not more than 10° to form with said orifice a Venturi passage for maintaining said stock between said orifice and said head box in continuous motion towards said head box at a decelerating velocity which is substantially constant across each cross-sectional area of said passage to dissipate the velocity energy of said stock with minimum turbulence as said stock flows from said orifice to said head box while maintaining substantial uniformity of flow conditions in said stock crosswise of said passage and throughout substantially the entire length thereof, and means forming an open connection of substantially the same cross-sectional area as the larger end of said Venturi passage between said passage and said head box to admit stock from said passage to said head box at a velocity substantially lower than said predetermined velocity and with maintained uniformity of flow and fiber distribution across the width of said machine.

2,589,640
FORM FOR WINDINGS AND THE LIKE
William F. Stahl, Kenilworth, Ill.
Application May 29, 1947, Serial No. 751,340
6 Claims. (Cl. 242—119)



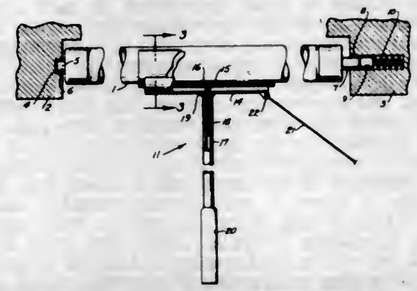
1. A form for windings and the like, comprising a tubular core member, apertured flanges received upon the ends of said core, said core having its end portions turned outwardly to provide locking shoulders maintaining said flanges on said core, and a tubular member extending about said core between said flanges and having flared end portions engaging said flanges and urging them toward said shoulders.

2,589,641
WALLPAPER DISPLAY
Harold E. Stewart, Wamego, Kans.
Application February 5, 1947, Serial No. 726,535
1 Claim. (Cl. 40—83)



A wallpaper display comprising a rack, a plurality of horizontally disposed rods carried by said rack, a roll of wallpaper carried rotatably on each of said rods, the end portion of the paper on each of said rolls being doubled back on itself to provide a double thickness of paper displaying the pattern on both sides thereof, whereby when the paper is completely rolled the pattern will be displayed on the outside of said roll, means for fastening the end of said paper to the back side of said end portion of the paper, and a strip of adhesive tape or similar material binding the crease formed by doubling back said end portion of the paper, said tape being suitable for receiving indicia concerning advertising or informational data.

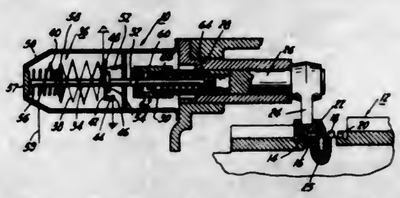
2,589,642
LAMP REPLACER FOR PUSH-PULL FIXTURES
Lafe Stueland, Alameda, Calif.
Application July 30, 1949, Serial No. 107,780
2 Claims. (Cl. 294—20)



1. Apparatus for facilitating the installation and removal of tubular fluorescent lamps from the fixtures thereof comprising a thin-walled substantially cylindrical resilient clamp member defining a recess and having axially extending spaced upper edge portions adjacent and providing an opening to the recess, said recess having a normal diameter substantially equal to the diameter of said lamps, a threaded connector member secured to said clamp member intermediate the ends of and adjacent the lower portion of the clamp member, an elongated handle threadedly engaged with said connector member, an arcuate actuator of a diameter less than said clamp member having an aperture therein for receiving said connector member, means on the upper end of said handle forming a bearing seat for the lower surface of said actuator whereby on rotation of said handle relative to said connector element said actuator will be selectively moved toward and away from said clamp means whereby said edge portions of the clamp will be respectively moved toward and away from the other.

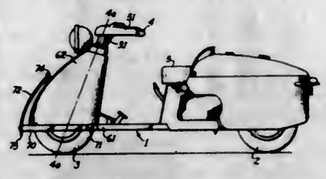
2,589,643
TRANSMISSION OPERATING MECHANISM
Thomas H. Thomas, Earl R. Price, and Richard H. Long, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 26, 1948, Serial No. 35,426
1 Claim. (Cl. 74—365)

Power means for actuating the shifting fork of a transmission including a transmission operating power unit comprising an electric and spring operated motor having a casing, a partition dividing the casing into two compartments, a plurality of coils within one of the compartments, one of said coils serving as pull-in coil and the other of said coils serving as a hold-in coil, a reciprocable armature actuated by said coils, two spaced apart flange members fixedly mounted on the armature, a motor operating spring member interposed between one end of the latter compartment and one of the flanges, and a grounded motor controlling



breaker switch mechanism actuated by one of the flanges and mounted within the latter compartment, said breaker switch being electrically connected to one of said coils, said power unit further including a double acting force transmitting means mounted within the other of the aforementioned compartments and adapted to interconnect the armature and shifting fork.

2,589,644
BUMPER STRUCTURE
Lewis D. Thostenson, Inglewood, Calif., assignor to Salsbury Corporation, a corporation of California
Original application September 9, 1946, Serial No. 695,592. Divided and this application April 28, 1947, Serial No. 744,278
2 Claims. (Cl. 293—61)

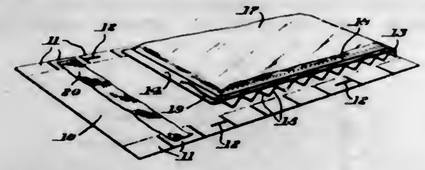


1. In a vehicle having a frame, a single steerable wheel at its front end and a conoidal supporting housing having a lower open end secured to the frame, the upper portion of said wheel being entirely enclosed by said housing, a bumper structure for protecting said housing, comprising: an arcuate, flexible, horizontal bumper member having its ends secured to the sides of the frame, said member extending around the lower open end of the housing in spaced relation thereto; a bracket mounted on the housing at the front portion thereof and above said bumper member; and a flexible, vertical, bumper member having a lower end connected to the central portion of said horizontal bumper member and an upper end connected to said bracket.

2,589,645
INSULATING AND HEATING JACKET FOR FOOD CONTAINERS
Margaret D. Tiegel, Greensburg, Pa.
Application July 23, 1948, Serial No. 40,326
7 Claims. (Cl. 126—263)

1. An insulating and heating device of the character described, comprising, a flat strip of flexible material adapted to form an outer container when rolled into substantially cylindrical form, a spacing layer superposed on said flat strip, a layer of fibrous material superposed upon said spacing layer, said spacing layer and layer of

fibrous material being adapted to be rolled when said flat strip is rolled, said layer of fibrous material also having materials adapted to liberate heat upon being moistened, and means for closing said outer container when said flat strip is



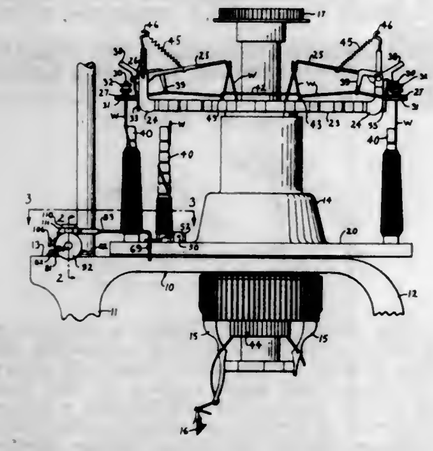
rolled, whereby a chilled food container placed within said outer container and said layers is insulated against detrimental loss of heat for a predetermined period and is then heated when said layer of fibrous material is moistened.

2,589,646

WRAP STRIPE STOP MOTION

William C. Tucker, High Point, N. C., assignor of one-third to Julia Austin Tucker and one-third to Sumter Marion Austin, both of High Point, N. C.

Application October 2, 1950, Serial No. 188,035
9 Claims. (Cl. 66—164)



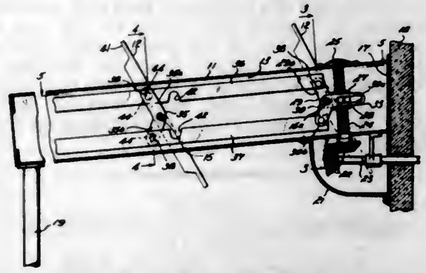
1. In a knitting machine having a revolving wrap stripe mechanism including a rotatable table supported by the revolving wrap stripe mechanism, said table having mounted on the upper side thereof a plurality of upstanding circularly spaced stops for holding yarn cones filled with wrap yarn, a vertically movable yarn clamping means disposed adjacent each of said stobs and adapted to secure the tail of the yarn on the corresponding cone, a movable plunger carried by the table in association with each of said yarn clamping means, means on the yarn clamping means for normally preventing movement of the corresponding plunger, stop motion actuating mechanism located adjacent the revolving wrap stripe mechanism and means on the stop motion actuating mechanism engageable by said plungers upon the plungers moving outwardly from said table and means on said clamping means causing the plunger associated therewith to move outwardly from said table upon substantial exhaustion of the yarn from one of the yarn cones.

2,589,647

SUNSHADE

Wynand J. van Gelder, Los Angeles, and Harold P. Stevens, Bellflower, Calif.

Application August 16, 1948, Serial No. 44,436
5 Claims. (Cl. 20—57.5)



1. A sunshade of the class described, comprising a hollow frame member; a plurality of panels each having a shaft journalled in said frame member and being secured to said shaft, said panels so overlapping as to form in different positions of rotation a closed substantially flat structure and an open structure; a pair of angulated crank arms secured to each of said shafts within said frame member, the arms of each pair being disposed at the same relative angle as the arms of each other pair, and all of said pairs being disposed in the same phase relation to said panels; a worm in said frame member; means for rotating said worm; a nut on said worm; pins extending laterally from said nut; lever arms secured to that one of said shafts proximal to said worm, and having slots within which said pins are slidably engaged, a pair of linkage bars each connecting those crank arms having like phase relation; crank pins on said linkage bars for pivotally engaging said connected crank arms; those crank arms secured to shafts other than said one shaft having longitudinal slots in which said crank pins may slide.

2,589,648

CYCLOALKANE OXIDATION

Francis T. Wadsworth, Dickinson, Tex., assignor to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware

No Drawing. Application May 26, 1950, Serial No. 164,603
6 Claims. (Cl. 260—533)

1. In a process for the liquid-phase oxidation of a liquid cycloalkane containing 4 to 6 carbon atoms, inclusive, in the ring to produce an alkane dicarboxylic acid in the presence of a polyvalent heavy metal catalyst and cyclohexanone reaction initiator, the improvement which comprises effecting said oxidation in a solution of said cycloalkane in a solvent consisting essentially of acetone, the proportion of acetone in said solution being between about 10 and about 70 percent by weight.

2,589,649

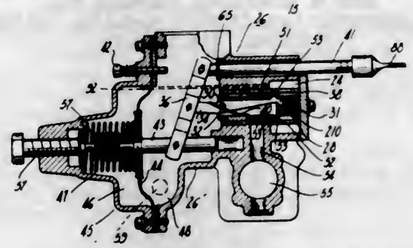
CLUTCH CONTROL MECHANISM

Richard H. Wheeler, Utica, Mich., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application June 10, 1947, Serial No. 753,682
4 Claims. (Cl. 192—075)

1. Mechanism for operating the clutch of an engine driven vehicle comprising a fluid pressure motor, a follow-up valve including two relatively movable members, for controlling the operation

of said motor, and means for operating said valve including means for determining the degree of movement of one of the valve members in one direction and cooperating with other parts of the mechanism to limit the energization of the motor in its operation of disengaging the clutch, said valve operating means including a floating lever operably connected to one of the parts of the valve, manually operated means connected to one



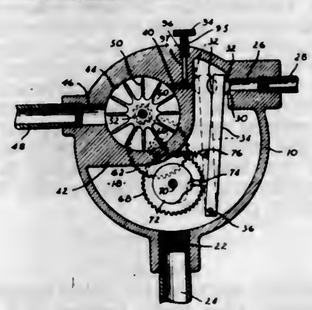
end of the lever, a pressure differential and spring operated motor connected to the other end of the lever, and stop means, including a plurality of sequentially operable springs, positioned in contact with the power element of the latter motor, for determining a certain position of the lever to thereby effect the aforementioned controlled energization of the motor said stop means also serving to control the clutch engaging operation of the motor.

2,589,650

AUTOMATIC VALVE CONTROL MEANS FOR WATER SOFTENERS

Herbert B. Wolcott, Jr., Columbia, Mo.

Application December 6, 1947, Serial No. 790,046
5 Claims. (Cl. 222—20)



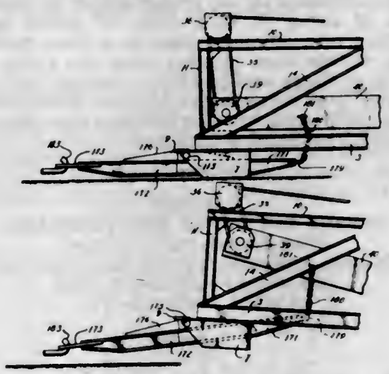
1. Valve controlling means for water softening apparatus, comprising a casing structure providing a water flow chamber having water intake and service outlet passages for a water softener unit and a soft water service line respectively and also having a water drainage outlet passage, said drainage outlet and service outlet passages having adjoining ports facing each other in slightly spaced relation, a valve arm and closure member mounted for rocking movement for alternately opening and closing said drainage outlet and said service outlet ports, means for maintaining said valve arm and closure member normally in closed relation to said drainage outlet port, and valve control means operative to mechanically engage and hold said valve arm and closure member temporarily in closed relation to said service outlet port and actuated by the flow of water out through said drainage outlet port for releasing the valve arm and closure member to the action of said first means to move the valve arm and closure member into closed relation to the drainage outlet port.

2,589,651

PIPE BENDING MACHINE, INCLUDING SKID LIFTING DEVICE

Sam L. Ballard, Houston, Tex.

Application October 5, 1950, Serial No. 188,608
3 Claims. (Cl. 153—32)



1. In a pipe bending machine, the combination of, a frame, means supporting said frame for movement including, a first support means connected to one end of said frame and a second support means connected to said frame and spaced from said first support means, pivot means mounted on said frame above the level of the base of said first support means and adjacent said first support means, a beam structure pivotally mounted on said pivot means with an end thereof extending outwardly from said pivot means beyond said frame, connection means on said outwardly extending end of said beam structure designed to bear upon a support carried by a traction device, a pipe bending mechanism mounted on said frame and including, a force applying means for bending a pipe section, and means for connecting the other end of said beam to said force applying means whereby the actuation of said force applying means will lift said first support means by causing said beam structure to pivot about said pivot means when said connection means is caused to bear upon a support means as aforesaid.

2,589,652

RESIN, ABRASIVE ARTICLE INCORPORATING SAME, AND METHOD OF MAKING SAME

Hugh V. Allison, Fairfield, Conn., assignor to The Allison Company, Bridgeport, Conn., a corporation of Connecticut

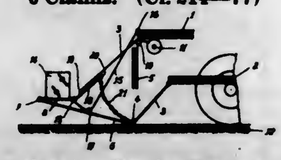
No Drawing. Application March 20, 1950, Serial No. 150,800
6 Claims. (Cl. 51—298)

6. An abrasive article comprising a backing sheet and abrasive grains bonded to a side of the sheet by a finally cured resin consisting of a reaction product of dimethyl terephthalate, pentaerythritol, methoxy polyglycol and lead dioxide in proportions of 400 grams of dimethyl terephthalate, from 80 to 200 grams of pentaerythritol, from 40 to 200 grams of methoxy polyglycol and from .4 to 4 grams of lead dioxide reacted at a temperature above 180° C. and finally cured.

2,589,653
PRODUCTION OF SILICON SULFIDE
Claudio Alvarez-Tostado and William B. Harlow, Palo Alto, Calif.
No Drawing. Application May 2, 1949, Serial No. 91,025
5 Claims. (Cl. 23—206)

1. A method of making silicon sulfide which comprises heating an intimate mixture of finely divided sulfur and a finely divided silicon material of the group consisting of elemental silicon and ferrosilicon in the proportion of at least one atom of sulfur to each atom of silicon in the presence of a siliceous glass in a form having a large surface area selected from the group consisting of fibers and powder in contact with said mixture to a temperature of from about 750° to about 1000° until reaction between the sulfur and the silicon material is initiated.

2,589,654
GOODS ELEVATOR FOR VEHICLES
Jean Archer, Paris, France
Application September 2, 1949, Serial No. 113,710
In France September 6, 1948
6 Claims. (Cl. 214—77)

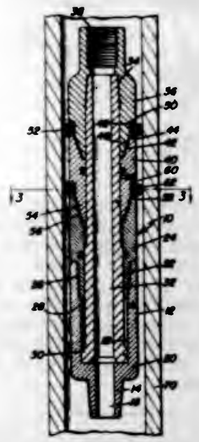


1. In an elevator for facilitating the loading of goods on to and the unloading of goods from a vehicle, a horizontally disposed platform located rearwardly of the vehicle, at least one lever articulated by one end to the rear of the said platform, the other end of the said lever being articulated to one end of a prop, the other end of the said prop being articulated to the rear of the vehicle chassis, and the articulated ends of the said lever and prop being supported upon the ground rearwardly of the vehicle when the elevator is in use, a link articulated to the forward end of said platform, a flexible connection between said link and said lever, a pulley journalled upon said lever intermediate its ends, a cable passing round said pulley and connected by its ends to the forward edge of the said platform and to the vehicle respectively, to prevent upward movement of the said front edge relatively to the rear edge of said platform, and means connected to said link for swinging the said lever about its articulation to the said prop for imparting vertical movements to the said platform.

2,589,655
INTERPOLYMERS AND METHOD OF MAKING SAME
Frank Armitage and Eric Sydney John Fry, Homerton, London, England, assignors, by mesne assignments, to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application July 27, 1950, Serial No. 176,254. In Great Britain August 5, 1949
25 Claims. (Cl. 260—22)

1. A process for the production of interpolymers comprising heating a mixture comprising at least one fatty acid compound selected from the group consisting of drying and semi-drying fatty oils, drying and semi-drying fatty oil acids and drying and semi-drying oil modified alkyd resins, and an acenaphthylene compound selected from the group consisting of acenaphthylene, nuclear halogen substituted derivatives thereof, and nuclear alkyl substituted derivatives thereof, the heating being continued until the reaction product is substantially clear and homogeneous.

2,589,656
WELL PACKER WITH EXPANDIBLE SEALS
Ellis B. Armstrong, Lubbock, Tex.
Application June 19, 1950, Serial No. 168,939
3 Claims. (Cl. 166—10)

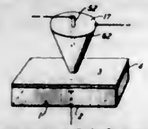


1. A multiple packer comprising a mandrel having an enlarged lower end, a packer body having an opening with a shoulder formed therein, the enlarged lower end of the mandrel being slidably received in the opening and engageable with the shoulder to limit outward sliding movement thereof, a first hub fixed on said mandrel exteriorly of the body, a second hub slidably engaging the mandrel between the first hub and the body, fluid sealing means interposed between the second hub and the mandrel, and expansible annular packing means surrounding the mandrel between the hubs and also between the second hub and the body and responsive to relative closing movements thereof respectively to expand into operative position.

2,589,657
MODIFIED SHORT OIL ALKYD RESINS
Laszlo Auer, South Orange, N. J.
No Drawing. Application July 30, 1946, Serial No. 687,204
13 Claims. (Cl. 260—15)

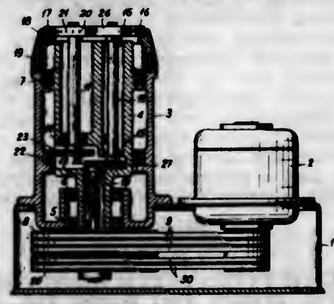
1. The process of preparing ethyl cellulose modified short oil alkyd resins consisting of an alkyd resin component and an ethyl cellulose component, which comprises (1) mixing a polyhydric alcohol, a polybasic organic carboxylic acid, a compound chosen from the group consisting of naturally occurring fatty acids and glycerides thereof, and ethyl cellulose, the proportions being such that the resulting alkyd resin component consists of from 45% to 75% of polyhydric alcohol ester of polybasic organic carboxylic acid and from 55% to 25% of polyhydric alcohol ester of naturally occurring monohydric fatty acids, and that the ethyl cellulose of the ethyl cellulose component is present in the amount of from 0.5 to 50 parts per 100 parts of the formed alkyd resin component and (2) heating said mixture under reflux in the presence of from 3% to 25% of water insoluble organic solvent, based on the calculated yield of the modified alkyd resin, at a temperature of from 175° C. to 210° C., until a resin is formed having an acid number not exceeding 29.5, provision being made for separation of the water of esterification before the distilled and condensed solvent is allowed to return to the reaction zone.

2,589,658
SEMICONDUCTOR AMPLIFIER AND ELECTRODE STRUCTURES THEREFOR
John Bardeen, Summit, and Walter H. Brattain, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application June 17, 1948, Serial No. 33,466, now Patent No. 2,524,035, dated October 3, 1950. Divided and this application September 15, 1949, Serial No. 115,837
11 Claims. (Cl. 175—366)



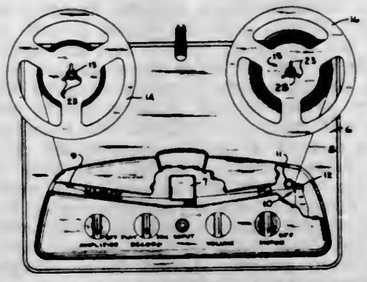
1. A circuit element which comprises a body of semiconductive material, a first electrode making rectifier contact with said body, at least one other electrode making rectifier contact with said body and symmetrically disposed about said first electrode, and a base electrode providing a low resistance connection to said body to influence the magnitude of a current flowing between the first electrode and said at least one other electrode.

2,589,659
STAMPING MACHINE
Alfred Bauer, Le Locle, Switzerland
Application August 24, 1950, Serial No. 181,200
In Switzerland December 12, 1949
1 Claim. (Cl. 101—401.5)



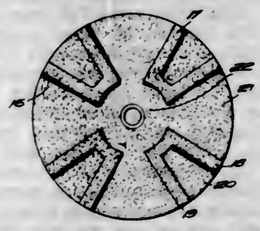
A stamping machine which comprises: an outer circular stationary frame having a central axis; an inner rotary circular frame coaxial with said stationary frame; an annular characters' support at one end of said stationary frame; a circular stationary gear attached to the inner face of said stationary frame at a distance from said annular support; a first rotary shaft parallel with said central axis and excentered with respect thereof, said first shaft being rotatably and yieldingly supported by and within said rotary frame, and having at one end a matrix bearing roller tangent with said annular support, and at its other end a first gear engaging said stationary gear; a second rotary shaft parallel with said central axis and excentered with respect thereof, and rotatably supported by and within said rotary frame, said second shaft having at one end an excentered wheel within said annular support and tangent with said roller, and at its other end a second gear; a third rotary shaft rotatably supported by said rotary frame, coaxial with said central axis, and having at one end within said rotary frame a third gear meshing with said second gear, and having its other end extending beyond said stationary frame; and means to impart rotation to said rotary frame and said third shaft.

2,589,660
MAGNETIC INSTRUMENT HIGH-SPEED REEL DRIVE
Harold W. Bauman, Chicago, and Melvin Sackter, Arlington Heights, Ill., assignors to Ampro Corporation, Chicago, Ill., a corporation of Illinois
Application September 27, 1950, Serial No. 187,076
6 Claims. (Cl. 242—55)



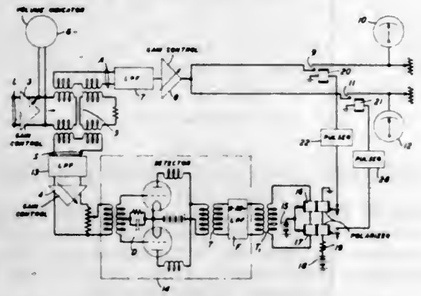
1. In a magnetic recording and/or reproducing instrument provided with means for advancing an elongate record body at a constant rate past a head, and a takeup reel drive mechanism including a slip clutch having a driven element for driving engagement with a takeup reel, a driver element and means for rotating said driver element at a constant speed; means for selectively driving at the speed of the driver element a reel engaged by said driven element, comprising positive clutch means actuable to positively lock said driver clutch element to such a reel against relative rotational movement in either direction.

2,589,661
GRINDING WHEEL
Walter A. Belcher, Jr., Providence, R. I.
Application December 15, 1950, Serial No. 201,027
2 Claims. (Cl. 51—206)



1. A grinding wheel construction having a continuous annular finish grinding edge, one side of the wheel having spaced substantially radial grinding elements and intermediate recesses, the inner portions of the grinding elements being recessed and providing clearance passages in conjunction with the intermediate recesses.

2,589,662
RADIOTELEPHONE RECEIVING SYSTEM
Bjorn G. Bjornson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 23, 1946, Serial No. 664,171
25 Claims. (Cl. 250—20)

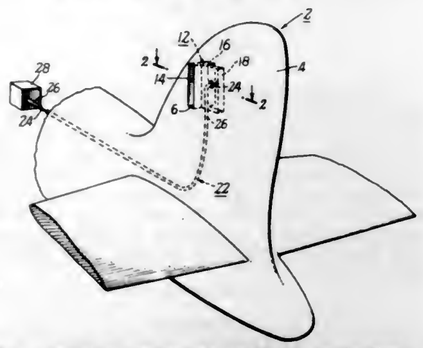


1. In combination, a syllabic detector having an input circuit and an output circuit, supply means for supplying speech currents and noise currents to said detector input circuit, a relay having an operating winding coupled to said detector output circuit, biasing means adapted to bias said relay to be operatively responsive to current flowing in only a preassigned direction in said detector output circuit, a pulsing device, said relay being adapted to control the operation of said pulsing device, a sampling circuit coupled to said supply means, and an instrumentality for controlling the operation of said sampling circuit, said pulsing device being adapted to actuate said instrumentality.

2,589,663
REMOVAL OF MERCAPTANS FROM HYDROCARBONS
Donald C. Bond, Northbrook, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application March 4, 1944, Serial No. 525,096
9 Claims. (Cl. 23—184)

1. In the treatment of hydrocarbon oils containing heavy mercaptides for the removal thereof which comprises contacting oil containing heavy mercaptides with aqueous alkali metal hydroxide reagent containing an effective amount of soluble organic oxidation promoter itself capable of oxidation and an amount of mercaptides sufficient to protect said promoter to extract said mercaptans and to produce a fat reagent containing heavy mercaptides, separating said fat reagent, regenerating said fat reagent by passing oxygen-containing oxidizing gas therethrough to oxidize a portion of said mercaptides to disulfides and to retain sufficient of said mercaptides to protect said promoter, separating said disulfides to produce a lean reagent, and contacting hydrocarbon oil containing heavy mercaptides with said lean reagent, the improvement which comprises contacting hydrocarbon oil containing predominantly heavy mercaptans with aqueous alkali metal hydroxide reagent containing an effective amount of soluble organic oxidation promoter itself capable of oxidation and an amount of mercaptides sufficient to protect said promoter to extract heavy mercaptans and to produce a fouled reagent containing heavy mercaptides, introducing light mercaptans into said fouled reagent in an amount sufficient to ensure substantially complete oxidation of said heavy mercaptides to disulfides whilst oxidizing a portion of said light mercaptides during regeneration and to retain sufficient mercaptides comprising substantially only light mercaptides to protect said soluble organic oxidation promoter after regeneration, regenerating said fouled reagent by passing oxygen-containing oxidizing gas therethrough to oxidize substantially all of said heavy mercaptides and a portion of said light mercaptides to disulfides whilst retaining an amount of mercaptides comprising substantially only light mercaptides sufficient to protect said promoter, and separating said disulfides to obtain a lean reagent containing a protective amount of mercaptan sulfur comprising substantially only light mercaptides.

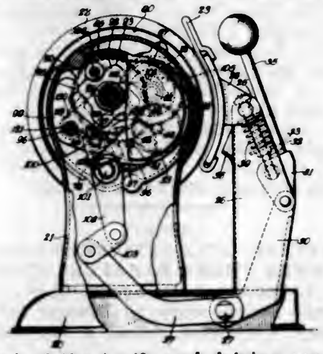
2,589,664
ANTENNA SYSTEM
David F. Bowman, Mineola, N. Y., assignor to Airborne Instruments Laboratory, Inc., Mineola, N. Y.
Application August 30, 1949, Serial No. 113,220
8 Claims. (Cl. 250—33.63)



7. An aircraft antenna system including a vertical stabilizer having an outer conductive skin with first and second oppositely-disposed vertically-extending slots therein, a conductive body providing a cavity having a first slot-feeding portion terminating in said first slot, a second slot-feeding portion terminating in said second slot and connected to said first slot-feeding portion, and an energizing portion having an axis in a plane perpendicular to the plane of the longitudinal axes of said first and second slot-feeding portions and connected to said first and second slot-feeding portions at the junction thereof, and a transmission line coupled to said energizing portion for energizing said slots.

2,589,665
LATCH TYPE CLUTCH MECHANISM
William H. Bradley, Fort Wayne, Ind., assignor to Horton Manufacturing Company, Fort Wayne, Ind., a corporation of Indiana
Original application June 16, 1944, Serial No. 540,672. Divided and this application May 22, 1948, Serial No. 28,711
4 Claims. (Cl. 192—28)

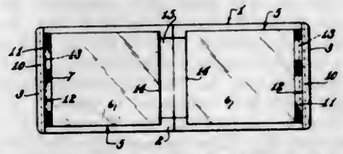
1. In an ironing machine, a notched driving member, a coaxial driven member, a finger having a pivotal connection at one end with the driven member, a tooth on said finger intermediate its ends for engaging said driving member, a disengaging member shiftable into the path of the other end of said finger, said pivotal connection comprising a pin and an elongated slot providing for shifting movement of the disengaging member relative to the driven member to permit the finger to pivot about said disengaging member when said tooth is disengaged, and a spring normally tending to swing said finger about said pivotal connection to effect engagement of the tooth and driving member and tending to swing said finger about said disengaging member to move said tooth clear of said driving member when disengaged therefrom.



2,589,666
AROMATIC ETHER-ESTER OF DIGLYCOLIC ACID
John D. Brandner, Wilmington, Del., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 25, 1950, Serial No. 158,089
1 Claim. (Cl. 260—484)

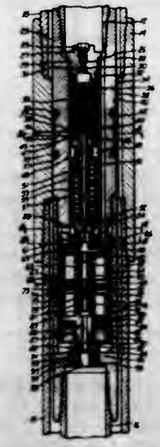
As a new product the diglycolic acid diester of beta phenoxy ethanol.

2,589,667
PASS CASE OR THE LIKE
Douglas J. Broughton, Springfield, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts
Application June 28, 1947, Serial No. 757,731
1 Claim. (Cl. 150—39)



A pass case comprising an elongated piece of flexible material providing two sections foldable lengthwise one upon the other about a transverse line of fold, each section being formed with a narrow integral extension along an outer edge thereof, a plurality of pass card holders each holder being provided along one edge with a hinge member secured to said edge and having a flexible hinge forming portion extending from the edge of the holder to which it is secured, said holders being arranged in two opposed groups positioned one group on the inner face of each cover section with the hinge members of the holders of each group positioned in superposed relation adjacent that outer edge of the underlying cover section which is provided with said narrow extension, each said extension being folded inwardly and over the superposed hinge members adjacent thereto, and a line of stitching extending through each extension, the edge portion of the underlying cover section and the intervening hinge members to hinge the groups of holders to their respective cover sections for individual swinging movement outwardly of the cover, the adjacent unhinged edges of the holders of the opposed groups being spaced from said transverse line of fold, the folded over portion of the cover extensions being narrower than the underlying portions of the hinge members to provide a freely flexing hinge portion between the edge of the holder to which the hinge member is secured and the adjacent edge of the folded over cover extensions.

2,589,668
CONTROL GOVERNOR FOR FLUID-OPERATED PUMPS
Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio
Application May 5, 1947, Serial No. 746,112
14 Claims. (Cl. 103—46)

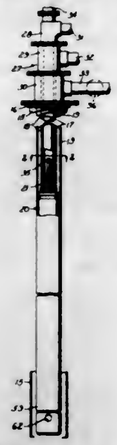


1. In a fluid-operated pumping apparatus for use in wells, the combination of: a fluid-operated pump adapted to be submerged in well fluid in a well; supply tubing for conveying a high pressure operating fluid downwardly through the well to said pump to actuate it; production tubing for conveying the discharge from said pump upwardly through the well; governor means in the line of said supply tubing and adapted to control the rate of flow of operating fluid therethrough, said governor means including a variable-area metering orifice means adapted to provide a fluid pressure differential thereacross, a pilot valve, a main valve, means for impressing said fluid pressure differential across said pilot valve to tend to move said pilot valve, and means for operating said main valve in response to movement of said pilot valve; and means for closing said metering orifice in response to a predetermined decrease in the level of well fluid in the well.

2,589,669
CLOSED FLUID-OPERATED FREE-PUMP SYSTEM WITH THREE CONCENTRIC TUBINGS
Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio
Application May 16, 1949, Serial No. 93,481
21 Claims. (Cl. 103—46)

1. In a closed, fluid-operated, free-pump system for a well, the combination of: concentric

supply, return and production tubings set in the well and respectively adapted to convey operating fluid downwardly into the well from the surface, spent operating fluid upwardly in the well to the surface and fluid produced by the well upwardly therein to the surface; means for interconnecting the lower ends of said tubings in fluid communication with each other and with the well; and



a fluid-operated, free pump movable in the innermost of said tubings into an operating position at the lower end thereof, said pump having an intake, an exhaust, an inlet and an outlet which communicate with said supply tubing, said return tubing, the well and said production tubing, respectively, when said pump is in said operating position.

2,589,670

CLOSED FLUID-OPERATED FREE-PUMP SYSTEM WITH TWO PARALLEL TUBINGS, ONE OF WHICH ENCLOSES A THIRD TUBING

Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio

Application May 16, 1949, Serial No. 93,482
31 Claims. (Cl. 103—46)



1. In a closed, fluid-operated, free-pump system for a well, the combination of: supply, return and production tubings set in the well and respectively adapted to convey operating fluid downwardly into the well from the surface, spent operating fluid upwardly in the well to the surface and fluid produced by the well upwardly therein to the surface, one of said tubings being disposed within another of said tubings which encloses said one tubing; means for interconnecting the lower ends of said tubings in fluid communication with each other and with the well; and a fluid-operated free pump movable in one of said tubings other than said enclosing tubing into an operating position at the lower end thereof, said pump having an intake, an exhaust, an inlet and an outlet which communicate with said supply tubing, said return tubing, the well and said production tubing, respectively, when said pump is in said operating position.

2,589,671

CLOSED FLUID-OPERATED FREE-PUMP SYSTEM WITH THREE PARALLEL TUBINGS

Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio

Application May 16, 1949, Serial No. 93,483
32 Claims. (Cl. 103—46)



1. In a closed, fluid-operated, free-pump system for a well, the combination of: a supply tubing set in the well and adapted to convey operating fluid downwardly into the well from the surface; a return tubing set in the well and adapted to convey spent operating fluid upwardly in the well to the surface; a production tubing set in the well and adapted to convey fluid produced by the well upwardly therein to the surface; means for interconnecting the lower ends of said tubings in fluid communication with each other and with the well; and a fluid-operated, free pump movable in one of said tubings into an operating position at the lower end thereof, said pump having an intake, an exhaust, an inlet and an outlet which communicate with said supply tubing, said return tubing, the well and said production tubing, respectively, when said pump is in said operating position.

2,589,672

CLOSED FLUID-OPERATED FREE-PUMP SYSTEM WITH TWO PARALLEL TUBINGS WITHIN A THIRD TUBING

Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio

Application May 16, 1949, Serial No. 93,484
32 Claims. (Cl. 103—46)

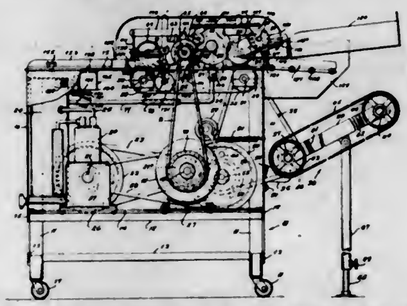
1. In a closed, fluid-operated, free-pump system for a well, the combination of: supply, return, and production tubings set in the well and respectively adapted to convey operating fluid downwardly into the well from the surface, spent operating fluid upwardly in the well to the surface and fluid produced by the well upwardly therein to the surface, one of said tubings being disposed within another of said tubings which encloses said one tubing; means for interconnecting the lower ends of said tubings in fluid communication with each other and with the well; and a fluid-operated, free pump movable in one of said inner tubings into an operating position at the lower end thereof, said pump having an intake, an exhaust, an inlet and an outlet which communicate with said supply tubing, said return tubing, the well and said production tubing, respectively, when said pump is in said operating position.

2,589,673

MAGAZINE STRIPPING MACHINE

Clifton A. Cobb, University City, Mo.

Application June 2, 1949, Serial No. 96,788
10 Claims. (Cl. 164—61)



2. In a magazine stripping machine in combination, a slitting blade, guide and conveyor means for feeding a magazine past said slitting blade such wise that one cover thereof is slit along its bound edge, a vacuum pick up device positioned adjacent said blade having a pivoted contacting element adapted to swing into engagement with the detached magazine cover and then away, thereby to separate the detached cover from the magazine, a deflector positioned adjacent said pick up device and arranged to deflect the detached cover, and means adapted to be engaged by the conveyed magazine for oscillating said contact element in one direction, and spring means for returning said contact element.

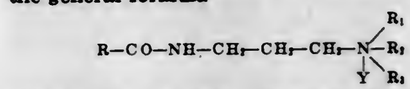
2,589,674

ALIPHATIC AMIDO PROPYL QUATERNARY AMMONIUM SALTS

Elmer W. Cook, New York, N. Y., and Philip H. Moss, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 24, 1947, Serial No. 750,366
5 Claims. (Cl. 260—404.5)

1. A quaternary ammonium compound having the general formula



wherein R is a member of the group consisting of aliphatic and alicyclic radicals containing at least 7 carbon atoms, R_1 and R_2 are members of the group consisting of alkyl and hydroxyalkyl radicals of 1–3 carbon atoms, R_3 is a hydroxyalkyl radical of 1–3 carbon atoms, and Y is an anion.

2,589,675

PRODUCTION OF S-HYDROXYBENZYL O,O-DITHIOPHOSPHORIC ACID TRIESTERS

Elmer W. Cook, London, England, Philip H. Moss, Seldovia, Territory of Alaska, and Edwin O. Hook, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application November 29, 1949, Serial No. 130,062
4 Claims. (Cl. 260—461)

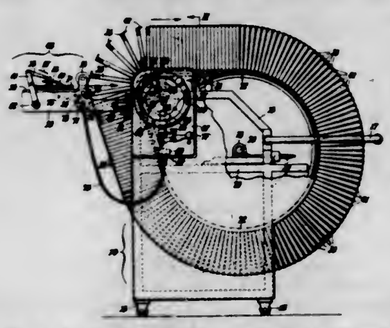
1. A method of producing an S,S'-hydroxyxylyl dithiophosphoric acid diester which comprises reacting together two molecular proportions of an O,O-diester of dithiophosphoric acid, two molecular proportions of formaldehyde and one molecular proportion of a phenol unsubstituted in at least one position ortho or para to the phenolic hydroxyl group.

2,589,676

SHEET DISTRIBUTING MACHINE

Robert J. Crissy, Union, N. J., assignor, by mesne assignments, to Scriptomatic, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application August 5, 1947, Serial No. 766,229
23 Claims. (Cl. 271—11)



7. In a sheet distributing machine, sheet feeding means; an endless belt conveyer; large and small wheels about which the conveyer is trained; a series of sheet collecting trays attached perpendicularly to the conveyer, said trays opening up to permit introduction thereinto of individual sheets taken from a supply pile by the feeding means as they fan out in rounding the small

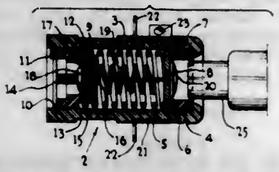
wheel; means for driving the conveyer continuously at uniform speed; means deriving movement from the driving means for actuating the sheet feed means in timed relation to the movement of the conveyer; and means whereby the sheet feed actuating means can be disconnected from the driving means upon exhaustion of the pile to permit re-setting of the conveyer to starting position.

2,589,677

SOCKET FOR ELONGATED TUBULAR LAMPS

Harold E. Darney, Bloomfield, N. J., assignor to Hanovia Chemical and Mfg. Company, Newark, N. J., a corporation of New Jersey

Application June 3, 1950, Serial No. 165,898
1 Claim. (Cl. 173—328)



A socket for receiving the terminal of a high pressure lamp comprising, a tubular housing formed of electrically insulating material, an internal flange at one end thereof, said flange providing an opening having a diameter that is greater than the diameter of said terminal, a retainer spacing sleeve of electrically insulating material slidably mounted within said housing and having a diameter that is greater than the diameter of said opening and adapted to abut said flange, a contact disc of substantially the same diameter as said spacing sleeve slidably mounted within said housing and engaging said sleeve, a coiled spring of substantially the same diameter as said sleeve mounted within said housing, a cup-shaped retaining member formed of electrically insulating material fixedly mounted in the other end of said housing the outer diameter of said member being in engagement with the internal surface of said housing, said member having a slightly reduced diameter extending inwardly from the end of said housing thus forming a flange on said member, one end of said spring engaging said flange on said retaining member and the other end of said spring engaging said disc to urge it into engagement with said spacing sleeve, said retainer member having an opening centrally thereof, an electrical connecting post mounted within said opening in said retainer member for connecting the socket to a source of electric energy, an electrical contact head affixed to said disc adapted to engage the terminal of a high pressure lamp, and a multi-strand helical coil conductor mounted within but out of contact with said spring and electrically connecting the post to the contact head.

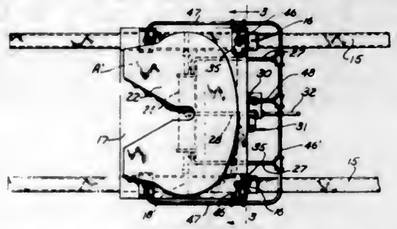
2,589,678

LOAD EQUALIZING DEVICE

Manford S. De Lay, St. Louis, Mo.

Application December 14, 1950, Serial No. 200,829
6 Claims. (Cl. 280—34)

1. A load equalizer for vehicles used in hauling trailers comprising a main frame including a pair of parallel beams attached to the vehicle, a wheel-supported auxiliary frame including a pair of parallel channel members receiving the beams, pins removably connecting the channel members and beams together, fluid operated lifts for moving the beams and channel members away from each other, air-operated means for causing the pins to be withdrawn from the beams and



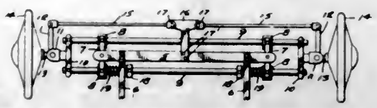
channel members, and means for supplying fluid under pressure simultaneously to the lifts and air to the air operated means.

2,589,679

STEERING MECHANISM FOR THE FRONT WHEELS OF BABY CARRIAGES

Christian F. Dennesen, Marblehead, Mass.

Application September 1, 1950, Serial No. 182,808
2 Claims. (Cl. 280—48)



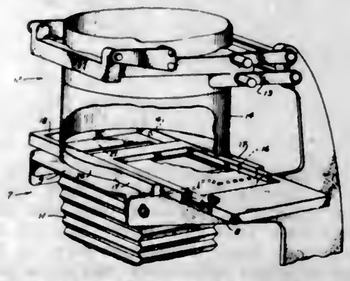
1. In a front wheel steering assembly for vehicles, a front axle bar to which the springs of a vehicle are attached, a pair of parallel auxiliary stationary axles, steering arms pivotally mounted at the ends of the parallel axles on which wheels are mounted, bars slidably mounted on the parallel axles, the ends of the front axle bar being connected to said slidable bars, an attaching bar connected with the front axle bar, tie rods connecting the attaching bar and steering arms, and coiled springs mounted on one of said parallel axles engaging said slidable bars, tensioning the movements of the steering assembly.

2,589,680

TRANSPARENCY HOLDER ATTACHMENT FOR PHOTOGRAPHIC ENLARGERS

Orrin Denny, Sr., Oakland, Calif.

Application August 9, 1949, Serial No. 109,303
1 Claim. (Cl. 88—24)



In a photographic projection enlarger including superposed focusing and lamp house units movable relatively toward and from each other along a projection axis and one of which units has an apertured backing plate thereon provided with spaced locating pins, a receiver frame for insertion between said units and to be held thereby by the superposed weight of one unit on the other, said receiver frame having therein spaced recesses engageable with said locating pins for

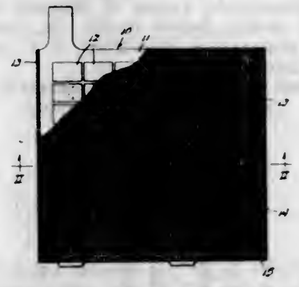
positioning said receiver frame in one direction relative to said backing plate and further having thereon a rib member engageable with a side of said backing plate for positioning the receiver frame relative to the backing plate in another direction, said receiver frame further having therein a light transmission aperture aligned with said projection axis, and a recess traversing said aperture and projection axis, and a copy carrier slidable in said recess into and out of said receiver frame and having a light transmission opening registrable with said light transmission aperture.

2,589,681

BATTERY PLATE

Marion Ward Dickover, Williamsville, N. Y., assignor to National Battery Company, St. Paul, Minn.

Application June 20, 1947, Serial No. 755,912
4 Claims. (Cl. 136—147)



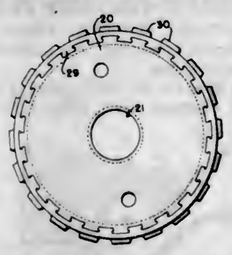
1. A rectangular storage battery plate unit comprising in combination, a grid having active paste material supported thereby, an envelope of woven glass cloth stretched tightly and wrapped about and secured to said plate and in material-retaining contact therewith; a ridged separator disposed on one side of said envelope, and a plurality of spaced stiffening elements comprising strips of plastic material painted on to the outside surfaces of said envelope for spanning contact with the ridges of said separator, whereby said envelope and paste material will be prevented from creeping into the grooves between the ridges of said separator.

2,589,682

TYPE MEMBER

Charles G. Dudis, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application May 19, 1949, Serial No. 94,079
5 Claims. (Cl. 101—368)



1. A printing member including, in combination, a supporting member having a type-receiving portion of bent-over flaring teeth, the flare of each tooth causing it to widen outwardly from its base, and the bend occurring between the base and the end of each tooth; and type material interlockingly secured around and between the teeth, there being molded type characters on a printing surface of the type material, each character having a tooth supporting it in the line of a printing impression.

2,589,683

FURFURYL ALCOHOL-AMMONIUM THIOCYANATE-ALDEHYDE RESINS

Andrew P. Dunlop, Riverside, and Paul R. Stout, Chicago, Ill., assignors to The Quaker Oats Company, a corporation of New Jersey

No Drawing. Application August 2, 1946, Serial No. 687,976
12 Claims. (Cl. 260—70)

1. A water-insoluble, viscous liquid thermosetting resinous composition comprising the heat convertible condensation product obtained by heating simultaneously a mixture of furfuryl alcohol, ammonium thiocyanate and an aldehyde.

2,589,684

RECOVERY OF SO_2

Herbert A. Edge, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application September 20, 1948, Serial No. 50,233. In Great Britain October 3, 1947
7 Claims. (Cl. 23—178)

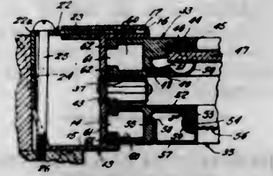
1. A process for recovering sulphur dioxide from gaseous admixtures containing the same which comprises bringing a gaseous mixture containing sulphur dioxide into contact with an aqueous solution containing ammonium sulfite and ammonium bisulfite whereby the sulphur dioxide is absorbed and recovering said absorbed sulphur dioxide by treating the solution with nitric acid, the quantity of nitric acid being at most 80% in excess of that stoichiometrically required.

2,589,685

WINDOW

Alfred B. Edwards, Jr., Plandome, N. Y.

Application April 2, 1946, Serial No. 659,080
11 Claims. (Cl. 189—75)



1. In a window for mounting in a building aperture having abutments therein, a rigid panel-receiving frame, said abutments projecting inwardly from the edge of said aperture and having a panel-engaging face; a pair of vertical mounting members extending the full length of the frame at each side thereof, and having sliding engagement with the frame to permit sidewise and tilting movement of said members relative to the frame in the plane thereof; means securing said mounting members against the sides of a building aperture to close the same and clamp said frame against an abutment to retain said frame in the aperture; and means separate from the mounting means secured to the top of the building aperture and projecting therefrom to overhang the top of the frame and close the same.

2,589,686

3-SUBSTITUTED 1,4-NAPHTHOQUINONES

George Fawaz, Beirut, Lebanon, assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application January 24, 1950, Serial No. 140,350
4 Claims. (Cl. 260—396)

1. A method of making 1,4-naphthoquinones containing in the 2-position a group selected from alkyl and carboxyalkyl groups which comprises condensing an acid of the group consisting of alkyl carboxylic acids, aralkyl carboxylic acids, and alkyl dicraboxylic acids with α-naphthol in the presence of a condensation catalyst, reducing the keto group of the ketonaphthol thereby produced and oxidizing the resultant 2-substituted naphthol to the corresponding 1,4-naphthoquinone with chromic acid.

2,589,687

METHOD OF PREPARING LINEAR POLYESTERS

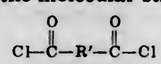
Paul J. Flory, Kent, and Frederick S. Leutner, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application July 16, 1946, Serial No. 683,989
15 Claims. (Cl. 260—75)

1. A method of preparing a superpolyester which consists of forming a mixture in which the sole reactants are equimolecular proportions of (A) a glycol in which the shortest atom chain between the two hydroxyl groups contains at least four atoms and which has the structural formula:

H—O—R—O—H

in which R is a divalent radical of the group consisting of cycloaliphatic hydrocarbon, aliphatic hydrocarbon, aliphatic oxahydrocarbon and aliphatic thiahydrocarbon radicals and (B) an acid chloride having the molecular structure



in which R' is any divalent radical of the group consisting of hydrocarbon, thiahydrocarbon, and oxahydrocarbon radicals, in which the shortest chain between the carbonyl groups contains at least three atoms, and in which the carbonyl groups are attached to aliphatic carbon atoms, and heating the mixture until the resultant polyester has attained a number average molecular weight of at least 10,000.

2,589,688

METHOD OF PREPARING LINEAR POLYESTERS

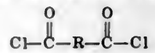
Paul J. Flory, Kent, and Frederick S. Leutner, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application July 16, 1946, Serial No. 683,990
9 Claims. (Cl. 260—75)

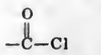
1. A method of preparing a superpolyester which comprises reacting, solely by condensation with the elimination of gaseous hydrogen chloride, a mixture containing, as the sole reactants, equimolecular proportions of (A) at least one glycol in which the shortest chain between the hydroxyl groups contains at least four atoms and which has the structural formula

HO—R—OH

in which R is a divalent radical of the group consisting of cycloaliphatic hydrocarbon, aliphatic hydrocarbon, aliphatic oxahydrocarbon and aliphatic thiahydrocarbon radicals, and (B) at least one acid chloride having the structural formula



in which R is a divalent aromatic radical in which the



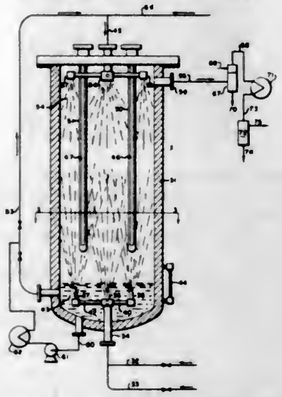
radicals are the sole reactive groups and in which the shortest chain between the carbonyl groups has at least four carbon atoms, each of said carbonyl radicals being attached directly to a benzene ring, until the product has a number average molecular weight of at least 10,000.

2,589,689

PHOTOCHEMICAL CHLORINATION PROCESS

Luke J. Governale, James H. Huguet, and Clarence M. Neher, Baton Rouge, La., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

Application November 12, 1949, Serial No. 126,902
3 Claims. (Cl. 204—163)



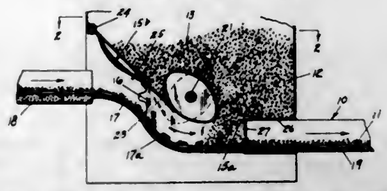
1. A process for chlorinating ethane comprising reacting chlorine and ethane in the gaseous phase under the influence of actinic light, discrete droplets of hydrochloric acid being distributed through the reaction zone in a sufficient amount to remove the heat of reaction but insufficient to substantially shield the gaseous chlorine and ethane from the actinic light radiations.

2,589,690

AUTOMATIC POULTRY FEEDER

William P. Graetz, Bremen, Ohio, assignor to McAuley Manufacturing, Inc., Bremen, Ohio, a corporation of Ohio

Application March 20, 1951, Serial No. 216,563
5 Claims. (Cl. 198—53)



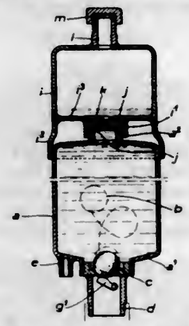
1. In combination with a material distributing member movable beneath a feed hopper having a material outlet, a blade mounted at said outlet, means for rotating said blade, a seal between the blade and the one edge of said outlet and a feed throat between the blade and the opposite edge of the outlet, and leveling means disposed beyond said blade in the direction of movement of said distributing member comprising a strike-off edge that is spaced at the desired level from said distributing member.

2,589,691

HYDROPNEUMATIC FLUSH TANK WITH FLOAT OUTLET VALVE

Claudius Griffon, St.-Etienne, France

Application January 23, 1950, Serial No. 140,030
In France July 8, 1949
4 Claims. (Cl. 4—28)



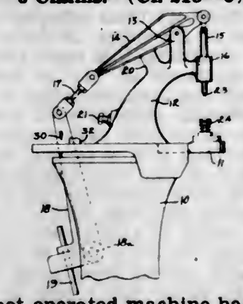
1. A flushing system for water closets and the like applications, comprising two superposed containers of which the upper container is smaller, a connection of small cross-sectional area connecting directly and permanently the upper end of the lower container with the lower end of the upper container, a connection for feeding water opening into the lower end of the lower container, an exhaust connection opening into the lower end of the lower container and an elastic ball valve adapted to close the end of the exhaust connection cooperating with the lower container for closing normally the latter and hand-operated means adapted to urge said ball valve away from its container-closing position into the mass of water filling the lower container.

2,589,692

LOCKING DEVICE FOR FOOT PRESSES

Harold E. Henricksen, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application January 2, 1951, Serial No. 203,979
3 Claims. (Cl. 218—5)



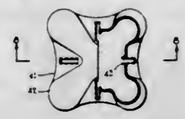
1. In a foot operated machine having a plunger, a rocker arm for operating said plunger, and a treadle lever for operating said rocker arm, a freely swinging pawl pivoted on the lever and normally hanging in a pendent position, a catch block of predetermined length attached to the machine in a position adjacent one side of the working stroke of said lever and having a substantially horizontal upper surface, said catch block having a series of ratchet teeth projecting from its upper surface, the length of said pawl being such that its free end normally is disposed below the upper surface of said block and slides over the upper surface of said catch block and drops off at the completion of the lever travel in either direction over one end or the other of said block so as to reverse the angular position of the pawl, said teeth cooperating with said pawl when the latter is moving across the upper surface of said block and serving to prevent a reverse movement of the lever until completion of either its forward or return stroke.

2,589,693

SCREW CAP REMOVER

Alexander McD. Hess, Jamaica, N. Y.

Application February 11, 1948, Serial No. 7,591
3 Claims. (Cl. 81—3.4)



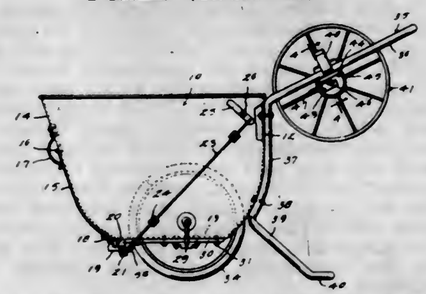
1. An appliance for loosening and tightening jar caps comprising a hollow frustum-shaped member having exterior projections and a plurality of longitudinally extending slots the edges of which are bent inwardly to constitute contact elements adapted to grip the cap.

2,589,694

DUMPING WHEELBARROW

Albert R. Hines, Columbus, Ga.

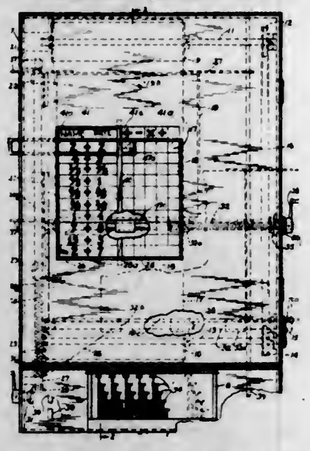
Application December 10, 1947, Serial No. 790,899
1 Claim. (Cl. 298—24)



A wheelbarrow comprising a container, wheels rotatably mounted beneath said container, said container being formed of upwardly divergent arcuate front and rear walls, parallel side walls, and a flat bottom wall, a downwardly opening closure hingedly carried by said front wall, bowed leaf spring means secured to said container adjacent the hinge portion of said closure yieldably urging said closure to closed position, a plurality of keepers fixed to the bottom of said closure, a plurality of spring pressed latch members adapted to engage said keepers, a transverse shaft rockably carrying said latch members secured to said container, a rod extending

from said shaft along one of said side walls, an operating lever rockably carried by one side wall and connected to said rod, a handle for said container, said handle comprising a single unitary tubular member formed of a transverse central portion from each end of which portions extend forwardly and downwardly toward said wheelbarrow, arcuate portions conforming in configuration to said rear wall depending from said last mentioned portions along opposite sides of said arcuate rear wall, each of said arcuate portions terminating in a rearwardly extending downwardly inclined leg portion, which last mentioned portions in turn terminate in substantially horizontal extremities to form a support for said barrow, and means securing said arcuate portions to said rear wall.

2,589,695
EDUCATIONAL DEVICE
H Von Hobbs and Dorothy Dell Hobbs, Crown Point, Ind.
Application November 6, 1950, Serial No. 194,275
8 Claims. (Cl. 35—48)



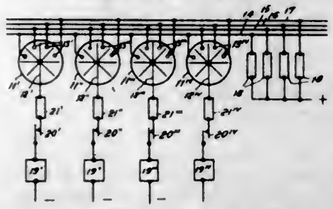
7. In a device of the class described, an upright main casing having a front wall with an opening, a writing sheet, means for supporting said sheet within said casing for movement across said opening, an auxiliary casing within said upright casing having a front wall with a central aperture adjacent said writing sheet, means for vertically moving said auxiliary casing, a vertical guide bar upon said upright casing bisecting the opening and forming a question space upon one side and an answer space upon the other side, a sheet perforating member carried by said auxiliary casing and means for operating said member for perforating said sheet through said aperture.

2,589,696
METHOD FOR MARKING MOTION-PICTURE FILM
Nicholas G. Horsky, Johnson City, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application April 12, 1949, Serial No. 86,884
5 Claims. (Cl. 95—2)



1. A method for producing permanent identification marks in a multilayer color motion picture film comprising a transparent support covered on one side by a developer-removable antihalation layer and covered on the other side by a plurality of emulsion layers, selectively sensitized to the blue, green and red regions of the spectrum and containing color formers fast to diffusion capable of yielding upon color development, colors complementary to those for which the emulsions are sensitized, which method includes ink-printing identification marks on the marginal area of said antihalation layer between the perforations and the extreme edge of the film, exposing the emulsions with visible light in the marginal area only, through said antihalation layer, thereby creating a latent shadow image of the identification symbols in the emulsion layers, exposing the main area of the film in a motion picture camera, developing the film and removing said antihalation layer during development.

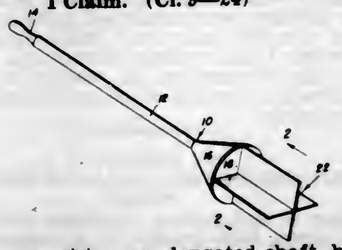
2,589,697
TELEPHONE SWITCH UTILIZING A MULTI-ELECTRODE GASEOUS DISCHARGE TUBE
Erik Waldemar Hullegård, Stockholm, Sweden, assignor to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden
Application October 21, 1946, Serial No. 704,745
In Sweden November 12, 1945
1 Claim. (Cl. 179—18)



In a connecting device for automatic telephone plants or the like of the type which includes a plurality of gaseous discharge tubes for effecting connections between certain incoming lines to certain outgoing lines, each of said discharge tubes having an impedance connected in series therewith and with an incoming line and a second impedance in series with each of said outgoing lines, the improvement which comprises constituting each of said discharge tubes by a common envelope containing a common gas atmosphere a plurality of electrodes and a single counter-electrode common to all said electrodes, wherein said counter-electrode is arranged to shield said other electrodes from each other and disposed so as to divide the gas atmosphere within said envelope into a number of different discharge chambers each containing one of said electrodes so as to prevent the discharge in one of said chambers from influencing the electric properties of the other discharge chambers, a number of incoming lines each connectable to the counter-electrode of one of said tubes, a number of outgoing lines connected to one of said other electrodes in each of said tubes, an impedance in series between each counter-electrode and each incoming line, a second impedance in series with each of said outgoing lines, a contact for connecting each incoming line to the corresponding counter-electrode, and a current source one pole of which is connected with each incoming line and the other pole of which is connected with said second impedances, the voltage of said current source being such as to produce ignition between said counter-electrodes and one of said other electrodes immediately upon closing of the contact in series with the counter-

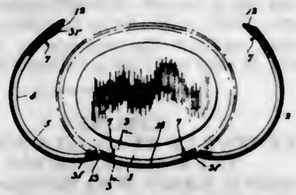
electrode in question, whereby the corresponding incoming line is connected to the outgoing line belonging to said other electrode over a path including said contact, said first impedance and the discharge between said counter-electrode and said other electrode in question; the voltage drop in said first impedance preventing the ignition of the other discharge paths between said counter-electrode and the other electrodes in said tube, and the voltage drop in the second impedance connected to the outgoing line in question reducing the potential of this line in such a way that the potential of all electrodes in other tubes connected with the same outgoing line is insufficient for producing ignition between these electrodes and the counter-electrode on connecting another incoming line to its corresponding tube, while the ignition of such tube takes place between its counter-electrode and another of its electrodes which is connected with an outgoing line not occupied at the same instant.

2,589,698
BOAT OAR
Solomon N. Jackson, Georgetown, Tex.
Application November 22, 1948, Serial No. 61,477
1 Claim. (Cl. 9—24)



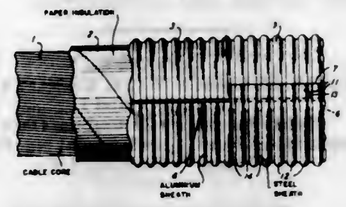
An oar comprising an elongated shaft, having at one end a grip, and an elongated propelling device secured to the other end of said shaft, said propelling device comprising a hollow frusto-conical member having its minor end secured to the shaft, a plate closing the major end of the frusto-conical member forming a chamber, said chamber forming a buoyant support for the oar, a plurality of blades extending from said plate, said blades intersecting each other along the axis of the shaft.

2,589,699
OUTSIDE COVER FOR CABINETS AND OTHER OBJECTS
Albert R. Johnson, Springfield, Mass.
Application October 30, 1946, Serial No. 706,588
5 Claims. (Cl. 312—204)



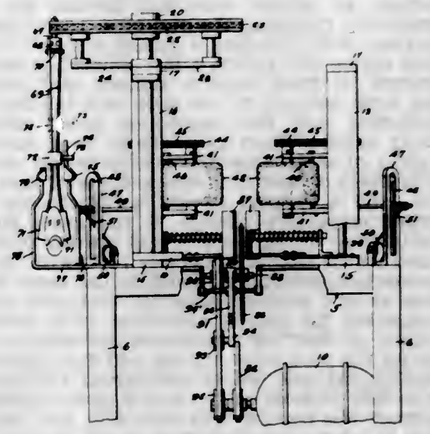
1. A covering for the exterior of an object of a color different from its surroundings, said covering having a finish to harmonize with said surroundings, the covering having a framework comprising vertical bars and horizontal members connecting same, the horizontal members being in sections, said bars being arranged at the ends of the sections and at the opposed rear edges of the covering, hinges connecting the bars at the ends of said sections, panels carried by said framework, and hooks mounted on the framework to engage apertured lugs on said object to mount the covering thereon, some of said bars having longitudinal recesses and said hooks being located in said recesses and terminating short of the inner faces of said members.

2,589,700
ELECTRIC CABLE SHEATHING
Harold G. Johnstone, Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 16, 1949, Serial No. 105,208
3 Claims. (Cl. 174—106)



1. In an electrical cable, a cable core, an insulating material about the core, a corrugated strip of highly conductive metal formed longitudinally about the core and over the insulating material for lighting protection and inductive shielding, a steel strip folded longitudinally with a soldered overlap about the said highly conductive metal strip and having corrugations interfitting snugly with those of the said metal strip, the said steel strip being wider than the highly conductive strip and having high electrical resistivity to provide an induction heated soldered joint at the overlapped portions as a hermetically sealed water barrier, and an outer plastic sheath for protecting the soldered overlapped steel strip.

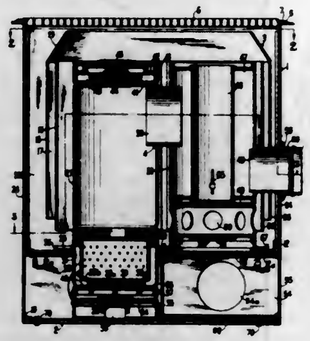
2,589,701
FISH CONVEYER
Nathan Kaplan, Atlanta, Ga.
Application April 9, 1947, Serial No. 740,335
1 Claim. (Cl. 198—179)



For use with a machine having fish scaling and cleaning means, means for conveying fish

through the machine to the scaling and cleaning means, comprising an endless chain, pairs of spring arms secured to and depending from said chain, the lower ends of said spring arms being spaced apart, cooperating jaws on the free ends of said arms adapted to grip the tail and head respectively of a fish, holding the fish in a horizontal position with the sides of the fish in vertical planes as said chain moves the fish into the scaling and cleaning means, sleeves slidable over the arms of each pair of arms holding the arms in clamped relation with fish positioned between the arms, pins extending from the sleeves, and a cam member disposed in the path of travel of said pins engaging the pins moving the sleeve longitudinally of the arms releasing the fish held therebetween.

2,589,702
FLOOR FURNACE WITH REMOVABLE HEATING UNIT
Henry W. Kelly, Columbus, Ohio
Application June 8, 1949, Serial No. 97,801
6 Claims. (Cl. 126—116)



1. A floor furnace comprising an outer vertical casing of substantially rectangular form and having its upper end open but adapted to be covered by a removable grill, said casing having a flue opening in one of its side walls, an adapter collar disposed around said opening and secured to said casing in fixed position, said adapter collar having an axially extending portion for telescopically receiving the end of a smoke pipe, a heating unit including a burner disposed within said casing and having a flue connection secured thereto in fixed position thereon and projecting from one side of the unit, said heating unit including said flue connection being substantially smaller than said casing in a direction axially of said flue connection to permit vertical movement of said unit into and out of said casing, and a support having a horizontally disposed supporting surface at the lower end of said casing for supporting said heating unit and upon which said unit slidably rests with its flue connection extending axially in the same direction as said adapter collar so that said unit is supported for sliding movement in a direction axially of said flue connection and adapter collar for the purpose of moving said flue connection axially into and out of telescoping relationship with said adapter collar, said support serving to support the heating unit with said flue connection at a level corresponding to the level of said adapter collar, said flue connection being of a size relative to said adapter collar to telescope snugly therewith so that only relative axial movement therebetween is permitted.

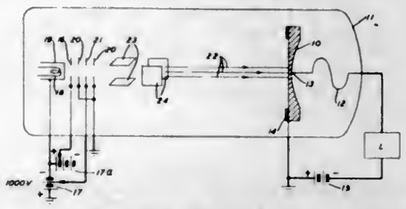
2,589,703
LEAD STYPHNATE AND PROCESS OF MANUFACTURING SAME
Joseph F. Kenney, Bridgeport, Conn., assignor to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware
Application August 17, 1950, Serial No. 179,935
5 Claims. (Cl. 52—2)



1. In the manufacture of the normal lead salt of styphnic acid, the method which comprises the addition to a suspension of about 10 grams of styphnic acid in about 100 cc. of water under agitation and at about 70° to 75° C. of about 10 cc. of about 8-normal potassium hydroxide, the further addition with continued agitation of about 50 cc. of a 40% solution of lead nitrate, and the recovery of the resulting precipitate.

2. The composition of matter normal lead styphnate in crystals which are rectangular parallelopipeds.

2,589,704
SEMICONDUCTOR SIGNAL TRANSLATING DEVICE
William E. Kirkpatrick, Chatham, and Raymond W. Sears, West Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 3, 1950, Serial No. 177,414
17 Claims. (Cl. 315—1)

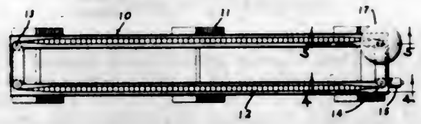


2. A signal translating device comprising a body of semiconductive material, an ohmic base connected to said body, a rectifying connection to said body at a region thereof spaced from said base connection, and means for directing an electron beam against the surface of said body in proximity to said rectifying connection.

2,589,705
TREATMENT OF AEROGELS TO RENDER THEM WATERPROOF
Samuel S. Kistler, West Boylston, Mass.
No Drawing. Application July 29, 1944,
Serial No. 547,310
4 Claims. (Cl. 117—106)

1. The method of waterproofing silica aerogel which comprises passing into intimate contact with said aerogel vapors of a mixture of methyl chloro-silicanes consisting of dimethyl dichloro-silicane and small amounts of methyl trichloro-silicane and trimethyl monochloro-silicane and having an average molecular weight of 130, said vapors being diluted with nitrogen gas, and then exposing the treated aerogel to a stream of air heated to about 300° C. to remove the hydrogen chloride formed.

2,589,706
CHAIN DISTRIBUTOR TYPE POULTRY FEEDING DEVICE
Gerald L. Kitson and Charles H. Kitson, Rockford, Mich., assignors, by mesne assignments, of one-half to themselves and Leon Kitson, jointly, with full rights of survivorship, and one-half to Nat Cordis, Chicago, Ill.
Application August 14, 1947, Serial No. 768,554
13 Claims. (Cl. 119—52)

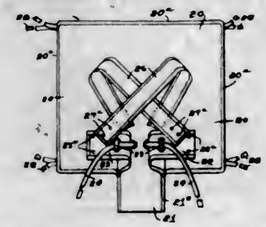


1. A stock feeder comprising a hopper having a discharge outlet, continuous conduit means formed in a closed circuit disposed in a substantially horizontal plane and communicating with said discharge outlet, said conduit means comprising an open-top horizontal trough affording access by stock to feed contained therein, endless flexible distributing means extending substantially throughout said conduit means adjacent the bottom thereof for conveying feed from said hopper and distributing said feed substantially throughout the length of said trough, said distributing means having a maximum cross section substantially less than the cross section of said trough, and driving means operatively associated with said distributing means for advancing said distributing means through said conduit means.

2,589,707
CHOLINE GALLATE AND ITS PREPARATION
John Korner, Pitman, N. J.
No Drawing. Application June 6, 1950,
Serial No. 166,558
5 Claims. (Cl. 260—501)

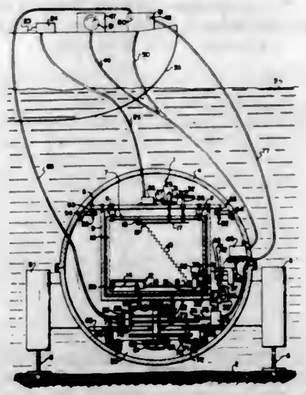
2. The process of preparing choline gallate which consists in reacting free choline with free gallic acid.

2,589,708
SAFETY GARMENT
Margaret R. Koster, Brooklyn, N. Y.
Application August 21, 1950, Serial No. 180,633
9 Claims. (Cl. 128—134)



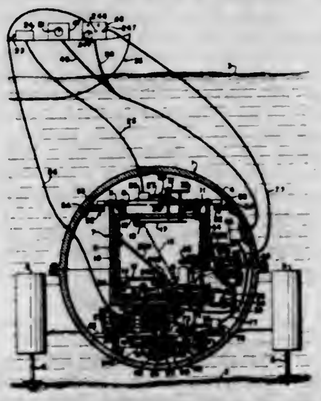
1. A safety garment for small children comprising a body member, a folding extension at the bottom edge of the middle of the body member and integral therewith, two outwardly extending straps at the outer edge of the folding extensions, fastening means on the body member, coacting fastening means adjacent the outer end of each strap for coaction with the fastening members on the body member, and adjusting means for holding the ends of the straps at any desired distance from each other to conform exactly to the girth of the waist of the infant being held.

2,589,709
FORCE MEASURING DEVICE
Lucien La Coste and Arnold Romberg, Austin, Tex.
Application September 12, 1946, Serial No. 696,494
16 Claims. (Cl. 73—382)



1. A gravity meter including a support, a weight, a spring suspending said weight from said support, means for accelerating said support to avoid interference with the movement of said weight, and means for averaging the displacement of the weight relative to the support.

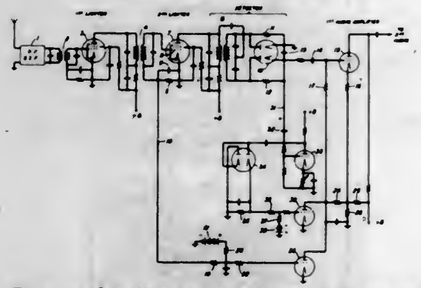
2,589,710
FORCE MEASURING DEVICE
Lucien J. B. La Coste and Arnold Romberg, Austin, Tex.
Application June 11, 1948, Serial No. 32,386
7 Claims. (Cl. 73—382)



1. A force measuring instrument comprising, a support, a moving system mounted thereon, said moving system including a member subjected to the force to be measured whereby the system moves in response to variations in such force, means on said support for limiting the movement of the moving system relative to the support, means for displacing said support to avoid engagement of the moving system with said

first mentioned means, means for applying a force to said system for accelerating the system in a direction to limit the required displacement of the support, and additional means for averaging the position of the moving system with respect to the support.

2,589,711
OFF-CHANNEL SQUELCH CIRCUIT FOR RADIO RECEIVERS
Lester Y. Lacy, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 5, 1948, Serial No. 25,188
4 Claims. (Cl. 250—20)



1. In a modulated-carrier signal receiver of the superheterodyne type including a current amplitude limiter and a muting device for silencing the receiver for received off-tune carrier waves, said muting device comprising a grid-controlled vacuum tube having a grid cut-off voltage characteristic and being responsive to an applied control voltage of one polarity with respect to said cut-off voltage to hold same effective and the opposite polarity to hold it ineffective, means for producing a control voltage for said muting device having one polarity with respect to said cut-off voltage for received off-tune waves and the opposite polarity for received in-tune waves, said means comprising means for selecting from the received carrier waves at the output terminals of said limiter oscillations in a band centered about the frequency to which the receiver is tuned, a rectifier for rectifying the selected oscillations to produce a direct-current control voltage, a source of fixed direct-current voltage of opposite polarity, means for combining said rectified voltage and a portion of the voltage from said source so that the resultant has one polarity with respect to said cut-off voltage for frequencies outside the frequency band of the receiver and the opposite polarity for frequencies within the receiver band, and means for applying the said resultant voltage to the muting device in such polarity with respect to said cut-off voltage that for received off-tune carrier waves it holds the device effective and for received in-tune waves it holds the same ineffective.

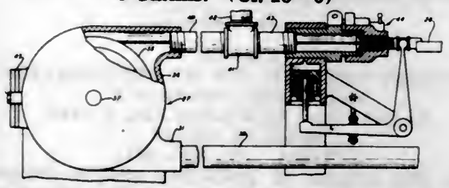
2,589,712
FLOW LINE SAMPLER
Robert M. Langsenkamp, Indianapolis, and Joseph M. Trimble, Lebanon, Ind., assignors to The Langsenkamp-Wheeler Brass Works, Inc., Indianapolis, Ind., a corporation of Indiana
Application December 22, 1949, Serial No. 134,546
2 Claims. (Cl. 73—422)

1. For taking samples of a fluid from a flow line under pressure; the combination of a T fitting intercepting said line to provide a side outlet through the T; a valve body telescoping within said T through and to seat on the outer margin of said outlet to have the body inner face substantially flush with the flow line bore through the T; quick releasable means for retaining said body in said seating position; a head; quick releasable means securing said head to said body; said body and said head having a common axial bore extending thereacross from a closed end in said head to an opening through said body face; said head having an outlet bore leading from said first bore to discharge externally of the head; a valve stem slidably entering said first bore through said closed end to traverse the first bore; a valve seat about said body face bore opening;



a valve carried by said stem to seat on said seat when said stem travels toward said opening; said opening being defined by a cylindrical passageway from said first bore to said face; a metering pin of constant diameter throughout its length extending from said valve into said passageway, the size of the pin determining the flow rate through the passageway upon an unseated valve condition; a spring surrounding said stem within said first bore bearing between said bore closed end and said valve normally seating the valve; and electromagnet means for retracting said stem against the opposition of said spring to unseat said valve.

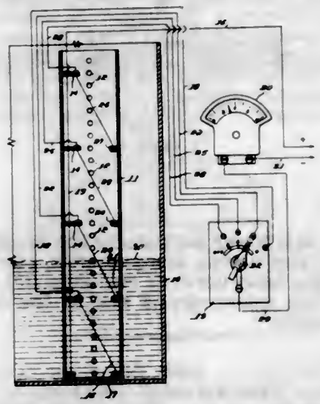
2,589,713
APPARATUS FOR CONTINUOUSLY MAKING VULCANIZED ARTICLES
Roger C. Lawrence, Ridgewood, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 22, 1947, Serial No. 749,829
5 Claims. (Cl. 18—6)



5. An apparatus for continuously making vulcanized articles, which comprises an elongated unobstructed conduit, a drain positioned at a point in the conduit between the ends thereof, means for introducing a vulcanizing medium under a high pressure into the conduit at a point on one side of the drain, means for introducing a cooling medium under a high predetermined pressure into the conduit at a point on the other side of the drain to cool a covered conductor advanced through the conduit, a plurality of resilient washers positioned at the end of the conduit on the same side of the drain as the point at which the cooling medium is introduced into the conduit, and means for pressing the washers closely around the covered conductor to effectively prevent escape of the cooling medium from the conduit through the washers.

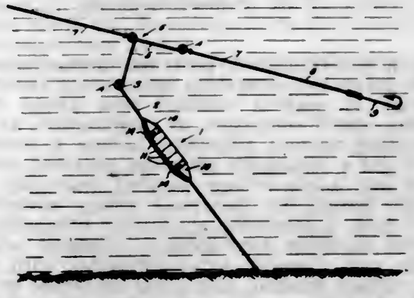
2,589,714
ELECTRICAL WATER GAUGE
Hilliard O. Lee, Kansas City, Kans.
Application May 5, 1949, Serial No. 91,473
1 Claim. (Cl. 73—304)

In a liquid level indicator, an insulated housing adapted to be immersed in a body of water, there being a plurality of vertically spaced openings in said housing for the ingress therethrough of water, a positive electrode extending longitudinally through said housing and connected to a source of electrical energy, a plurality of vertically spaced negative electrodes supported in



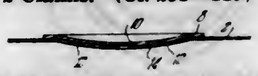
said housing, a manually operable selector switch electrically connected to said negative electrodes, an ammeter electrically connected to said selector switch, said selector switch being graduated to indicate the depth of water in feet and the ammeter being graduated to indicate the depth of water in fractions of a foot.

2,589,715
TROLLING SINKER
Carl A. Lysikowski, Cleveland, Ohio
Application September 12, 1946, Serial No. 696,436
1 Claim. (Cl. 43—43.14)



A sinker for fishing lines comprising an elongated rod straight throughout its length and formed at its front end with an eye, a weight of greatly less length than the rod fitting snugly about said rod and shiftable along the rod to adjusted positions thereon in which portions of the rod project from the front and rear ends of the weight, the rear end of the rod being adapted to rest upon the bottom of a body of water and supporting the weight spaced upwardly from the said bottom of the body of water a distance sufficient to clear rocks and other obstructions, said weight having portions formed with transversely extending threaded openings, set screws passing through the threaded openings with their inner ends abutting the rod and securing the weight in an adjusted position upon the rod, and means for connecting the rod with a fish line consisting of of a strand of wire bent intermediate its length to form a fish line receiving eye and arms diverging therefrom, one arm having its rear end formed with an eye for receiving a fish hook leader, and the other arm extending downwardly from the front end of the first arm and formed at its lower end with an eye loosely engaged through the eye at the front end of said rod.

2,589,716
VALVE CONSTRUCTION
Frederick W. Marsh, Springfield, Mass., assignor to Kestral Corporation, Springfield, Mass., a corporation of Massachusetts
Application January 31, 1946, Serial No. 644,500
2 Claims. (Cl. 251—119)

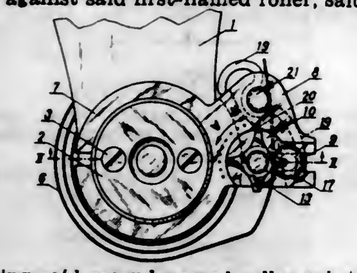


1. A valve construction for an inflatable article having a wall member of substantially uniform thickness formed of a flexible, elastically expansible material comprising in combination a convex plate member substantially inflexible relative to the wall member and of substantially uniform thickness throughout secured, around its peripheral edge portion only, to the outer face of the wall member in such a manner that said wall is stretched over the convex face of said plate, the portion of the wall member within said secured peripheral edge portion being free from attachment to the plate member, said plate member being formed with an opening positioned inwardly from its secured peripheral edge portion, the edges of said opening being flush with the faces of the plate member, the portion of the wall opposite said opening being expansible thereinto to seal the opening in the presence of an inflating pressure within the article, the portion of the wall member within said secured peripheral edge portion of the plate member being provided with an opening offset from said opening in the plate member, the edges of said wall opening being flush with the faces of the wall and being normally closed by face to face over-all engagement of the wall and plate member in the presence of an inflating pressure within the article, the portion of the wall within said secured peripheral edge portion of the plate member being movable inwardly away from the plate member by inwardly directed pressure through said plate opening to establish an article inflating and deflating communication between said openings.

2,589,717
DEVICE FOR FIXING THE OUTER END OF A HAIRSPRING TO THE COCK OF TIME-PIECES
Fritz Marti, La Chaux-de-Fonds, Switzerland
Application February 14, 1947, Serial No. 728,435
In Switzerland October 30, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 30, 1965
1 Claim. (Cl. 58—113)

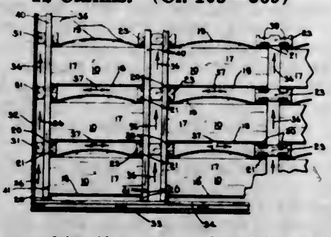
In a device for fixing the outer end of a hair spring to the cock of a time-piece, comprising a support member having a recess, two rollers provided with meshing gears and having cooperating surfaces adapted to nip the end of the hair spring therebetween, said rollers being rotatably mounted in said support with their gears on one side of the support and the said cooperating surfaces on the opposite side of said support, one of said rollers being disposed in a radial slot in said support member and being slidable in said slot relative to the other roller, manually operable means for rotating said rollers whereby to

shift the hair spring and to modify the active length thereof, and a spring disposed in said recess in said support urging said second-named roller against said first-named roller, said spring



engaging said second-named roller substantially in the center of the distance between the gears and the nipping surfaces, whereby the pressure of said spring is substantially equally distributed on the gears and on the nipping surfaces.

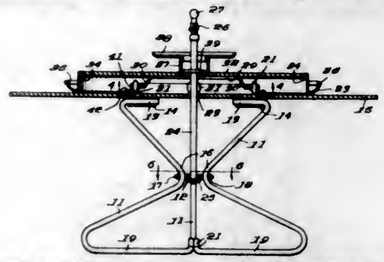
2,589,718
STACKING APPARATUS
Clyde M. Martin, Orange Cove, Calif., assignor of one-half to Nick J. Buratovich and one-half to Mike T. Buratovich, Dinuba, Calif.
Application October 11, 1948, Serial No. 53,858
12 Claims. (Cl. 105—369)



1. The combination of a plurality of boxes of substantially uniform shape arranged in stacks and the stacks arranged with the boxes in end-to-end relation in tiers, the individual boxes having cleats secured thereto disposed transversely of the tops of said boxes adjacent to the ends, and spacers adapted to hold the boxes in the stacks in vertically spaced relation and adjacent stacks in the tiers in horizontally spaced relation comprising elongated blocks positioned horizontally between and interconnecting corresponding boxes of adjacent stacks, said blocks being transversely grooved to receive the cleats of the corresponding boxes of adjacent stacks and providing spacing bosses integral therewith extended from the blocks between the ends of the boxes of adjacent stacks in the tiers.

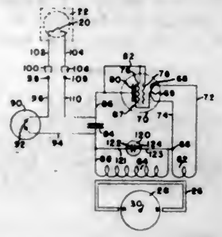
2,589,719
LEG ASSEMBLY AND CONNECTING MEANS FOR TABLE TOPS
William M. McKinney, Manteca, Calif.
Application April 1, 1949, Serial No. 84,991
1 Claim. (Cl. 311—110)

A table comprising a leg assembly and a table top, said table top having a plurality of angularly spaced radially extending sleeves on its bottom face, said leg assembly comprising a plurality of leg members having respectively portions, bent inwardly at their upper ends and fitting respectively the sleeves on the table top, upper inwardly and downwardly bent portions at the outer ends of the first portions, a central spider device having portions connecting the legs together at the lower ends of said last said upper portions and retaining them against outward radial movement, lower outwardly and downwardly extending portions at the lower ends of said last said upper portions, and said leg members respectively having base portions extending inwardly of



said last said lower portions to the center of the assembly and having bent up ends, the bent up ends of the base portions engaging one another beneath the spider device and at the center of the assembly.

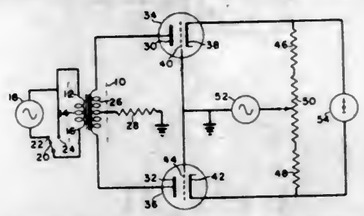
2,589,720
ELECTRONIC DEVICE
Marl McMath, Newport, Ky., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware
Application October 18, 1950, Serial No. 190,834
8 Claims. (Cl. 320—1)



1. A self-contained, portable, manually operable device for generating and storing electrical energy to operate ignition type photo flash lamps, which comprises, in combination, an alternating current generator having a rotating field and a stationary armature provided with a high and a low voltage winding, manually operable means for imparting rotary motion to said field, a capacitor, a rectifier comprising a sealed envelope containing a filament and a plate, said filament series connected with said low voltage winding, said plate connected to one side of said capacitor, the other side of said capacitor connected to one side of the high voltage winding of said armature, the other side of said winding connected to the filament of said rectifier, gaseous discharge means series connected across said high voltage winding for limiting the voltage delivered by said winding to the ionizing voltage of said means.

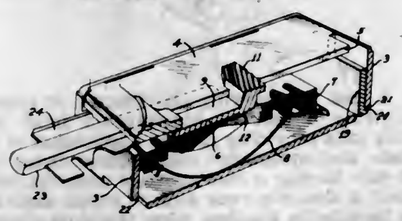
2,589,721
VOLTAGE INDICATING SYSTEM
Joseph T. McNaney, Baltimore, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Original application June 28, 1945, Serial No. 601,952. Divided and this application June 23, 1949, Serial No. 100,910
3 Claims. (Cl. 171—95)

3. In a voltage responsive indicating device a pair of vacuum tubes each having a cathode, an anode and an intermediate grid electrode positioned therebetween, a source of substantially constant voltage of a predetermined frequency, means impressing voltage from said source in the same phase between said cathode and said grid electrode of each of said tubes, the last named means comprising resistance elements of equal values of resistance connected between said source and each of said cathodes, said source being directly connected to said grids, means connecting said grid electrodes to ground, a transformer having a center tapped secondary, said transformer being coupled to a variable ampli-



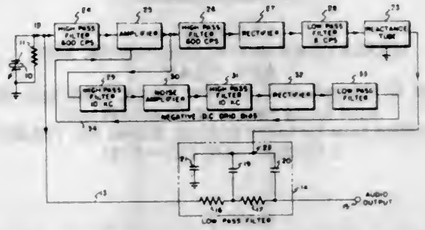
tude signal source of said predetermined frequency, means connecting the end terminals of said secondary winding to said anodes, a resistor connected between said center tap of said secondary and ground, and an indicator responsive to the magnitude and direction of current flow therethrough connected across said resistance elements, the resistance of said resistor being of sufficient value to severely limit the current flowing in said secondary whereby the current flowing through said indicator cannot substantially exceed the magnitude of the current flowing between said cathodes and said grid electrodes.

2,589,722
MAGAZINE FOR SAFETY RAZOR BLADES
Gideon R. Mead, Plattsburg, N. Y., assignor to Pal Blade Co., Inc., New York, N. Y., a corporation of New York
Application July 14, 1949, Serial No. 104,607
3 Claims. (Cl. 206—16)



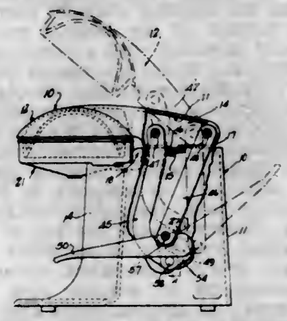
3. A dispensing magazine for unwrapped double-edge, slotted, corner-notched safety razor blades, comprising a casing having a bottom, side and end walls and a top, a discharge slot between the upper edge of the forward end wall and the top having a section normally norrower than the thickness of a single blade and a wider central section, a stack of blades in the casing, guide ribs in the casing cooperating with the notches in the blades for centering the stack, a spring urging the stack upward with the topmost blade in alignment with the discharge slot, and an ejector slide longer than and overlying the topmost blade and mounted on the top, the forward end of said slide extending beyond the forward edge of the stack of blades and being thicker than the width of the central section of the discharge slot to pry it open at the initiation of the discharge operation to permit egress of a single blade.

2,589,723
NOISE SUPPRESSOR FOR AUDIO CIRCUITS
John Milton Miller, Jr., Baltimore, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application December 9, 1948, Serial No. 64,345
16 Claims. (Cl. 178—44)



1. In combination, a translating channel for audio frequency signals, means coupled to said channel for attenuating a band of frequencies lying within and adjacent to one of the limits of the useful frequency range of said signals, while permitting translation of frequencies lying within the remainder of said useful frequency range, means responsive to the presence in said channel of energy of high intensity lying within said band for reducing said attenuation and means responsive to the presence in said channel of energy having a frequency outside said limit to diminish the effect of said attenuation reducing means.

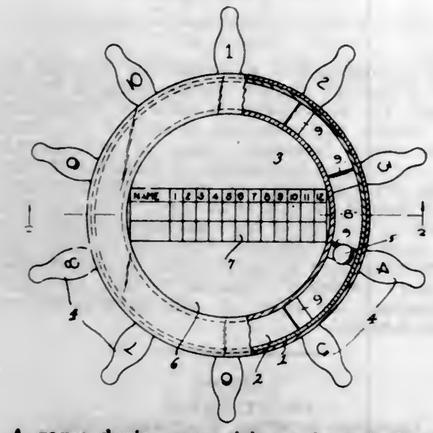
2,589,724
FRUIT PRESS
Raymond S. Miller, Hollywood, Calif.
Application February 1, 1949, Serial No. 73,928
1 Claim. (Cl. 100—45)



In a fruit press, a base, a vertical funnel mounted on and projecting laterally outwardly from the base, said funnel having a bottom wall, a perforated fruit supporting cone supportably resting upon said funnel, a press head comprising a circular portion having a cup member on its under side for engagement over said cone to press fruit on said cone with the press head in its depressed horizontal position, said press head further comprising a lever arm on said circular portion projecting over the top of said base, a first vertical link pivoted at its upper end to said lever arm and depending therefrom, a second vertical link pivoted at its upper end to said lever arm at a point at the side of said first link remote from said circular portion of the press head, said second link depending from said lever arm, a horizontal shaft extending transversely across the base and journaled thereon, lever means fixed on said shaft, said first and second links being pivoted at their lower ends to said lever means

at points circumferentially spaced with respect to said shaft, and a hand lever fixed on said shaft for rotating said shaft in one direction to swing said press head upwardly away from its depressed position and in the opposite direction to swing said press head downwardly from its elevated position to its depressed position.

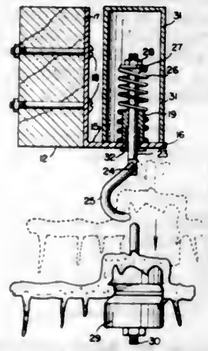
2,589,725
MINIATURE BOWLING GAME AND ASH TRAY
John D. Nagel and Walter Lang, Chicago, Ill.; said Lang assignor to said Nagel
Application October 2, 1946, Serial No. 700,682
1 Claim. (Cl. 273—115)



A game device comprising a base including a substantially vertically disposed peripheral wall, an annular wall spaced from said peripheral wall and forming an annular channel therebetween, the upper surface of the bottom wall of said channel being provided with a plurality of radially extending and uniformly spaced depressions, a plurality of radially extending simulated bowling pins secured to the outer circumferential surface of said peripheral wall in axial alignment with said depressions and corresponding in number thereto, indicia on said bowling pins identifying the associated depressions, a ball freely movable within said channel, a horizontal wall disposed in alignment with the top of the walls of said channel and formed integrally with said annular wall, and a transparent cover for said channel comprising an annular disk overlying said peripheral and annular walls and including a centrally located bridge portion comprising a scoring portion secured to said horizontal wall.

2,589,726
WIRE INSULATOR HOLDER
Dietrich J. Neufeld, Buhler, Kans.
Application March 3, 1950, Serial No. 147,467
2 Claims. (Cl. 248—54)

2. A wire supporting bracket comprising a horizontal support having an opening, an upstanding sleeve element secured on said support and having an axial bore concentric to the opening, a vertical rod member extending slidably through the bore in said sleeve element and through the opening in said support, an abutment transversely carried by the upper end of said rod member, a coil spring encircling said rod member and bearing between said abutment and said support for biasing said rod member upwardly with respect to said support, a hook element having a shank, and pivot means transversely connected to the shank of the hook element and the lower end of the rod member for connecting said hook element to the lower end of said rod member, said coil spring being arranged to normally maintain the shank of the hook element within the lower end of the bore and in alignment with the rod



member and maintain said pivot means substantially within the bore in the sleeve element, whereby rotation of said hook element is prevented unless the loading thereon exceeds a predetermined value and means carried by the support for attaching the support to a supporting member.

2,589,727
TOOL FOR SEVERING THE FLANGES OF CHANNELS
Thomas M. Porter, Brookline, Mass., assignor to H. K. Porter, Inc., Somerville, Mass., a corporation of Massachusetts
Application November 21, 1950, Serial No. 196,798
3 Claims. (Cl. 30—226)

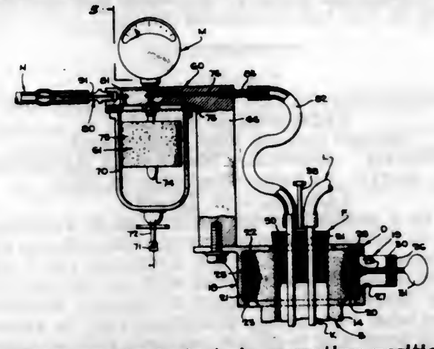


1. A tool for severing the flanges of channels comprising a pair of interpivoted head levers having tails providing for the application of force thereto and mutually overlapping distal jaws, each jaw having a leading edge and, rearwardly thereof a slot, the rear wall of which defines an edge parallel to the first edge, the slots when the tool is open providing two open-ended throats at opposite sides of the leading edges of the jaws respectively and corresponding to the respective slots, in which throats the flanges of the channel are received to be severed by a movement of the jaws wherein the leading edge of each lever moves in shearing relation past the edge provided by the rear wall of the slot in the other lever.

2,589,728
PNEUMATICALLY OPERATED IRRIGATING APPARATUS
Edmond O. Pratt, Los Angeles, Calif.
Application October 18, 1947, Serial No. 780,627
5 Claims. (Cl. 128—227)

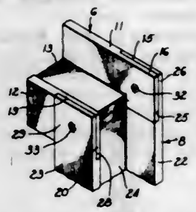
2. A device applicable to the neck of a bottle having a plug therein including, an annular body having a side opening and surrounding the neck of the bottle, a band within said annular body

and surrounding the neck of the bottle, a pad within the band and engaging the neck of the bottle, manually operable means acting on the band to tighten it on the pad and projecting through the opening to the exterior of the body, a post projecting up from the body and laterally spaced from the central axis of the neck of the



bottle when the body is in operating position, a plate carried by the post and overlying the plug to retain it in the neck of the bottle, a standard projecting up from the body and spaced from the post and having a horizontal arm, a filter carried by the arm and depending therefrom, and a fluid connection from the filter to the bottle and engageable through the plug.

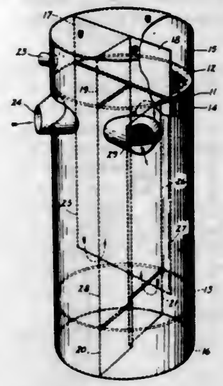
2,589,729
METALLIC WINDOW SASH
Paul R. Rates, Sherman Oaks, Calif., assignor to Timm Industries, Inc., Glendale, Calif., a corporation of California
Application July 7, 1947, Serial No. 759,379
5 Claims. (Cl. 189—76)



1. A structural sash, comprising: an upper section; a lower section; and a pair of side sections extending between the corresponding ends of said upper and lower sections, all of said sections being substantially Z-shaped in cross section to provide an outer longitudinal flange, an inner longitudinal flange spaced from and of shorter length than said outer flange, and a connecting web joining said outer and inner flanges and of substantially the same length as said inner flange, each of said inner and outer flanges of all of said sections having end portions of reduced thickness interlocked, one with another, at the corners of the sash.

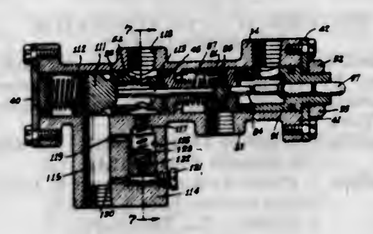
2,589,730
HEAT EXCHANGER
Arnold C. Rathkey, Waterloo, Iowa, assignor to The Gas Machinery Company, Cleveland, Ohio, a corporation of Ohio
Application September 20, 1949, Serial No. 116,725
7 Claims. (Cl. 257—223)

1. A heat exchanger for fluids comprising a shell and a plurality of spaced substantially parallel tubes arranged within the shell, said shell and tubes constituting two independent passages in heat exchange relation, one passage for the fluid to be cooled and the other passage for the fluid to be heated, the first mentioned



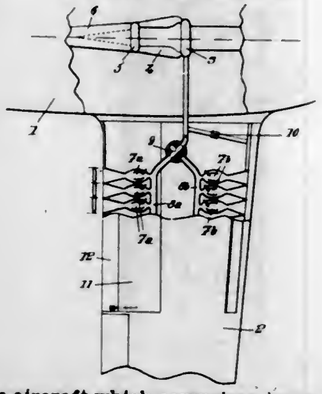
passage having a decreasing cross sectional area in the direction of decreasing temperature of the fluid and the second mentioned passage having an increasing cross-sectional area in the direction of increasing temperature of said fluid.

2,589,731
FUSE TYPE HYDRAULIC VALVE
Casimer A. Ratkoviak, Pasadena, Calif., assignor to Howard Field, Jr., Los Angeles, Calif.
Application October 2, 1945, Serial No. 619,847
24 Claims. (Cl. 137—153)



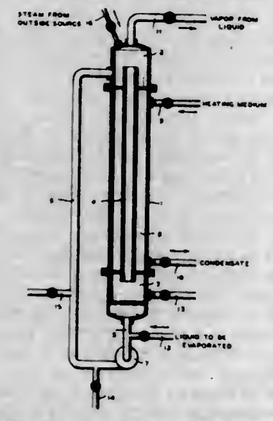
1. In a valve device, the combination of: housing means having a primary inlet port, a primary outlet port, a secondary inlet port, a secondary outlet port, and a main fluid passage connecting said primary inlet and outlet ports; main valve means in said main fluid passage and adapted to be opened in response to a flow of fluid from said secondary inlet port to said secondary outlet port; auxiliary fluid passage means connecting said primary inlet and outlet ports; auxiliary valve means in said auxiliary passage means; spring means engaging said auxiliary valve means for normally maintaining said auxiliary valve means in open position to permit flow of fluid through said auxiliary fluid passage means; and means, including a restricted orifice communicating with said primary inlet port, for applying to said auxiliary valve means a fluid pressure which moves it toward its closed position, whereby to automatically close said auxiliary valve means after a predetermined quantity of fluid has passed therethrough.

2,589,732
JET-PROPELLED AIRCRAFT
Henri Rivière, Paris, France, assignor to "Office National d'Etudes et de Recherches Aeronautiques" (O. N. E. R. A.), Paris, France, a society of France
Application July 20, 1949, Serial No. 105,780
In France July 22, 1948
6 Claims. (Cl. 244—15)



1. An aircraft which comprises, in combination, at least one wing and one fuselage, at least one rearwardly directed jet nozzle in the trailing edge of said wing, at least one frontwardly directed jet nozzle in the leading edge of said wing, two fuel combustion chambers in said wing opening each into one of said nozzles, compressor means in said fuselage for supplying air under pressure and means interposed between said compressor means and said chambers for supplying air from said compressor means to one or the other of said combustion chambers.

2,589,733
METHOD OF OPERATING FILM EVAPORATORS
Curt Fredrik Rosenblad, Stockholm, Sweden, assignor, by mesne assignments, to Rosenblad Corporation, New York, N. Y., a corporation of New York
Application September 11, 1946, Serial No. 696,366
In Sweden July 5, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 5, 1963
1 Claim. (Cl. 183—2.5)



The method of operating film evaporators comprising the steps of supplying liquid to be evaporated and a heating medium to separate spaces at opposite sides of the heating surface in the evaporator to be passed through the same in heat exchange relation, and concomitantly with the initiation of such heat exchange process forcing steam from an outside source through the space at the liquid side of the heating surface to drive out any gaseous fluid which may be contained in the last mentioned space.

2,589,734
PRODUCTION OF POTASSIUM-CONTAINING NITROPHOSPHATES
Samuel Ruosch, Visp, Switzerland
No Drawing. Application May 6, 1948, Serial No. 25,517. In Switzerland May 29, 1947
5 Claims. (Cl. 71—39)

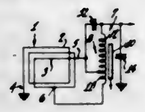
1. In a process for the production in granular form of potassium-containing nitrophosphates of low water content and high softening point by decomposing phosphate rock with an amount of HNO_3 theoretically required to convert 80–85% of the total P_2O_5 of the phosphate rock to water soluble form and to obtain products with at most 2–3 mols of water of crystallization per mol of calcium nitrate, by adding potassium sulphate, kneading the mixture and converting the hot doughy mass by cooling and hardening into granular form; the improvement comprising the steps of kneading said decomposition mass intensively until the content of free acid in the mass is below 3%, adding to said mass a quantity of potassium sulphate whereby the mixed product contains 5–14% K_2O, and intensively kneading said mixed product at a temperature of at least 80° C.

2,589,735
PACKAGE WITH COVER OR SUPPORT THEREFOR
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application February 6, 1946, Serial No. 645,758
3 Claims. (Cl. 206—56)



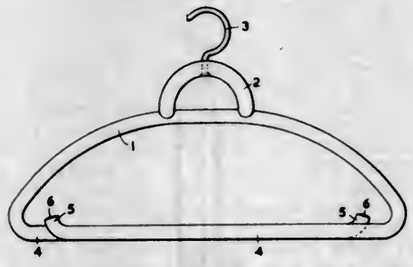
2. A package comprising an envelope including two superposed separate flat sheets of packaging material at least one of which has a thermoplastic surface that faces and is sealed to the other sheet along all marginal portions of the latter in zones forming and encircling a commodity compartment between the sheets, one of said sheets having an integral marginal extension with said thermoplastic surface beyond the corresponding edge of the other sheet, the other edges of each sheet being in register with the corresponding edges of the other sheet, the other surfaces of said sheets being mon-adhesive under heat or pressure, and a cover strip having a flap at one end foldable inwardly over the main part of the strip, said marginal extension of the first-mentioned sheet being sealed by only its said thermoplastic surface to only the inner side of said flap between the free end edge of said flap and the fold to connect said cover to said envelope and the envelope being otherwise loose and free from said cover strip, said cover strip being foldable around said envelope to enclose the latter and the other end of said cover strip being removably insertable between said free end of said flap and said envelope to hold said cover strip in folded closed condition, said cover strip being transversely scored inwardly of said flap to provide for easy separation of said flap and said envelope therewith from the cover strip.

2,589,736
LOOP ANTENNA INPUT CIRCUITS
William F. Sands, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 6, 1948, Serial No. 53,078
7 Claims. (Cl. 250—20)



1. In a radio receiver, a loop antenna having at least three terminals, at least one of said terminals being connected to an intermediate point of said antenna, an inductor including a paramagnetic core, means for moving said core to vary the inductance of said inductor, one of said antenna terminals being maintained at a relatively fixed alternating-current potential, the other two antenna terminals being connected respectively to one terminal and to an intermediate point of said inductor, a first capacitor effectively connected between the free terminal of said inductor and said one of said antenna terminals, and a second capacitor connected between said free terminal and said intermediate point of said inductor.

2,589,737
CLOTHES HANGER
Innes Scott-Dalgleish, Jersey, Channel Islands
Application March 16, 1949, Serial No. 81,787
In Great Britain March 30, 1948
2 Claims. (Cl. 211—119)



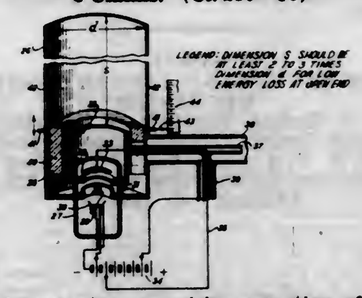
1. A clothes hanger comprising a curved portion adapted to be suspended from a hook and two substantially straight substantially horizontal rack portions arranged in substantially parallel horizontally spaced relationship, one end of each rack being joined to one end of the curved portion and the other end of each rack being free and spaced horizontally from the other end of the curved portion, and the end portions of the curved portion being bent outwardly from the plane of the central portion.

2,589,738
VARIABLE SELECTIVE AUTOMATIC CHOKE FOR SHOTGUNS
William H. Sedberry, Thompsons Station, Tenn.
Application January 13, 1950, Serial No. 138,416
7 Claims. (Cl. 42—79)



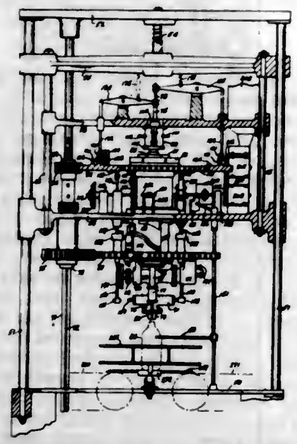
1. In a shotgun, a barrel having the muzzle end thereof provided with a plurality of spaced slots extending longitudinally inwardly from said muzzle end and completely through the barrel, the portions of the barrel intermediate adjacent slots forming longitudinal spaced resilient fingers, a rib on the exterior face of each finger positioned adjacent one side edge thereof and spaced from the other side edge thereof and extending longitudinally of said finger, there being a plurality of spaced apertures in said barrel arranged longitudinally thereof and inwardly of said fingers, a sleeve positioned on said barrel inwardly of said slots and mounted on said barrel for sliding axial and rotational movement, said sleeve having a plurality of apertures arranged in spaced relation thereabout intermediate its ends, the apertures in said sleeve being in registry with the apertures in said barrel, and a plurality of spaced ribs on the interior face of said sleeve extending longitudinally of and inwardly from one end of said sleeve, each rib on said sleeve being interposed between a rib on one finger and a rib on the next adjacent finger and engageable with the rib on said one finger upon rotative movement of said sleeve to flex the fingers toward each other.

2,589,739
ELECTRICAL OSCILLATOR HAVING OPEN-ENDED COAXIAL RESONATOR
William G. Shepherd, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 27, 1947, Serial No. 770,853
5 Claims. (Cl. 250—36)



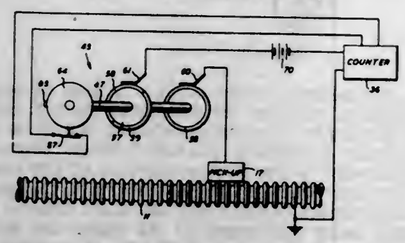
1. A resonator comprising a section of coaxial conductor, an electron discharge device having two perforate electrodes between which a high frequency oscillation potential exists connected respectively to the two conductors of the coaxial section near one end, the other end of the section being electrically open and the outer coaxial conductor being prolonged at its open end beyond the corresponding end of the inner coaxial conductor to constitute a cylindrical hollow pipe wave guide, the length and diameter of the said hollow pipe wave guide being such as to cause the guide to present substantially negligible admittance at the frequency of oscillation for which the most fundamental resonance mode of the coaxial section occurs.

2,589,740
CONTAINER SEALING MACHINE
Henry B. Silver, Brooklyn, N. Y., assignor to Plastic Seal Corporation, Brooklyn, N. Y., a corporation of New York
Application April 27, 1950, Serial No. 158,365
23 Claims. (Cl. 226—80)



22. In a container sealing machine having a frame, a container supporter means on the frame, means for discharging sealing fluid onto the joint between a container and its closure on said supporting means, a member carried on the frame, capable of movement about a line surrounded by such joint, means for constantly moving said member in one way about said line; said discharge means being swingably mounted on said member and movable thereon towards sealing position and away from sealing position; the said line and the said axis of swing being in angular relation, and means to shift the discharge means with respect to the said member whereby said discharge means will remain at sealing position for more than one and less than all of every occurrence of a predetermined number of complete circuitous movements of said member about said line.

2,589,741
ELEMENTS PER UNIT LENGTH COUNTER MECHANISM
Henry C. Slechta, Plainfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 13, 1950, Serial No. 155,581
6 Claims. (Cl. 235—92)



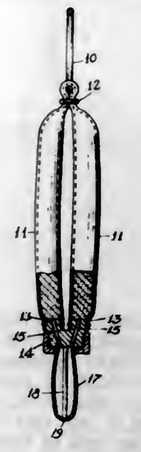
1. In a mechanism for counting the corrugations of a transversely corrugated longitudinally moving member, the combination with an electric pulse totalizing counter and an actuating circuit for the counter, of a fixed pickup unit having a contact connected in the circuit which is operated by each passing corrugation to transmit a pulse to the counter, a fixed measuring wheel in rolling contact with the member, means controlled by the wheel for interrupting the circuit during a portion of each revolution of the wheel, a reset circuit for the counter, and means associated with the wheel for actuating the reset circuit during the interruption period.

2,589,742
BOTTLE SEAL CUTTER
Le Roy Jack Smith, Detroit, Mich., assignor of one-half to George Cline, Detroit, Mich.
Application July 23, 1949, Serial No. 106,409
1 Claim. (Cl. 30—2)



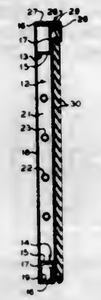
A bottle seal cutter comprising a substantially flat elongated plate of sheet material having an enlargement forming a handle at one end and a second enlargement with a notch at the opposite end, said enlargements having a relatively narrow neck portion therebetween with inwardly curved opposite edges, said notch having diverging jaws with substantially straight relatively sharp cutting edges arranged in an approximately V-shaped formation thereon, said edges being beveled on the opposite sides of said plate, and said jaws being disposed in different planes relatively to one another.

2,589,743
COMBINATION DUPLEX COLLAPSIBLE CONTAINER AND DISPENSING MEANS
Thomas W. Snaith, San Francisco, Calif.
Application September 25, 1950, Serial No. 186,532
1 Claim. (Cl. 222—94)



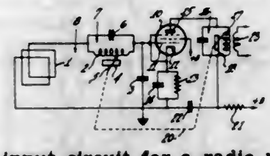
In a combination container and dispenser, an elongated collapsible tube doubled back upon itself to provide two collapsible containers arranged in side-by-side relationship, the said containers having adjacent end portions provided with outlet openings, an end member having spaced duplex protuberances, the open end portions of the duplex containers being secured to the protuberances and closed thereby, passageways extending through the protuberances and the end member and communicating with the outlet openings of the containers for the passage of material from the containers, a flexible nipple secured to the end member and having an open end arranged to receive the material discharged from the passageways in the end member, the said nipple having an outlet opening, and a rigid valve member secured to the end member and arranged to normally close the outlet opening in the nipple.

2,589,744
SIMULATED WINDOW
Florence J. Sterling, Chicago, Ill., assignor to Sterling-Freeland Industries, Inc., Chicago, Ill., a corporation of Illinois
Application December 11, 1948, Serial No. 64,879
4 Claims. (Cl. 240—10)



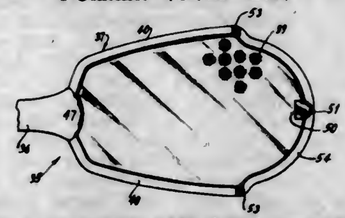
1. In combination a substantially rectangular framework of channel members including upper and lower and side members, a back for the framework comprising a substantially flat sheet member having flanged edge portions attached to the outer legs of the channel members, the sheet member in combination with the framework providing a recess, a plurality of tubular light members supported in the recess in spaced relation and having their end portions within one of the channel members, each of said light members consisting of a U-shaped tube extending transversely of the recess, electrical means attached to the light members and adapted to be connected to a source of electrical energy for energizing said light, an elongated angle member having one leg attached to a leg of the upper channel member and the other extending downwardly and spaced from a portion thereof, a slat type blind supported in the space between the leg of the elongated angle member and the framework channel member in order that the blind may be in a position to substantially cover the framework including the recess, means for selectively controlling the angle of said blind slats whereby the rays of the light members may be projected directly through the blind at different angles to vary the effect of the illumination and create the illusion of natural light.

2,589,745
LOOP ANTENNA TUNING CIRCUIT
William J. Stolze, Astoria, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application October 23, 1948, Serial No. 56,188
6 Claims. (Cl. 250—20)



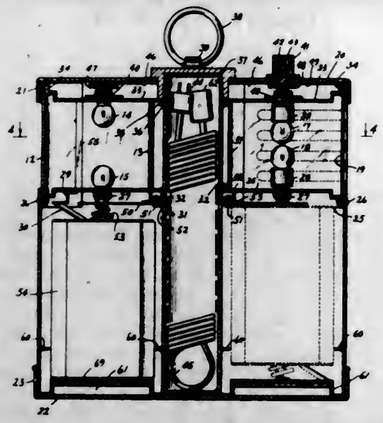
1. An input circuit for a radio receiver comprising a loop antenna, a parallel resonant circuit and a first capacitor, said first capacitor being connected across said antenna and said resonant circuit arranged in series, said resonant circuit consisting of a second capacitor and a variable inductor, said inductor including paramagnetic core means movable to vary the resonant frequency of said input circuit over a predetermined frequency range, the circuit constants of said resonant circuit being chosen so that its resonant frequency falls between the image frequency and the resonant frequency of said input circuit for any position of said core means, whereby the reactance of said resonant circuit is inductive at any resonant frequency of said input circuit and is larger than the inductance of said inductor.

2,589,746
SANITARY HAIRBRUSH WITH REMOVABLE HEAD
Max H. Storch, Belle Harbor, N. Y.
Application October 13, 1949, Serial No. 121,159
5 Claims. (Cl. 15—176)



1. In a sanitary hair brush comprising a handle and brush back made of metal and a bristle block removable from said metal back to permit sterilization of said block, said metal back having hollow sides forming a raised circumscribing flange, said bristle block being made of plastic material and having a modified trapezoidal cross-section with one large and one small end, a flange extending around two equal sides and around a small end wall of said bristle block, the large end of said bristle block having an acute angularly shaped cavity with the vertex of the angle extending into said block, said metal back having a spring fixed thereto and extending into said cavity, the large end wall portion of said metal back being thinner than the two sides of said metal back, providing an opening into said metal back whereby said three sided flange of said bristle block may be inserted into said hollow metal back with the flanges of said bristle block underlying the flange of said metal back and positively retained in interlocking engagement with said metal back on three sides, said spring being pressed into engagement with said metal back at the large side of said bristle block to retain said bristle block in engagement with said metal back on all four sides.

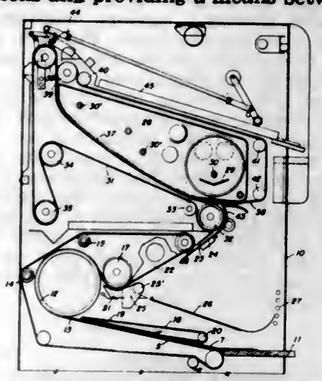
2,589,747
EMERGENCY PORTABLE LIGHT
Emilio Lorenzo Tedeschi, New York, N. Y.
Application July 16, 1949, Serial No. 105,177
5 Claims. (Cl. 177—329)



1. An electrically operable portable utility and warning device having a casing with lens apertures on opposing ends thereof, lens means disposed to cover said lens apertures, a mid-deck having a central aperture and a plurality of threaded apertures formed therein and means formed thereon being adapted to engage the lower edges of both of said lenses to secure same in position in said casing, a contact strip secured to said mid-deck and electrically insulated therefrom, an upper deck having a central aperture and a plurality of threaded apertures connected thereto, means on said upper deck for securing the upper edge of said lenses in their respective positions, a metallic receptacle disposed through the central apertures in the upper deck and the mid-deck and electrically connected thereto, a base frictionally secured to the lower portion of said casing forming a plurality of battery receiving compartments below said mid-deck, a cover having a central aperture therein adapted to frictionally engage the upper edge of said casing, a closure insertable through the central aperture in said cover and being threadedly connectable to the upper end of said metallic receptacle, a female socket secured to said cover and being electrically connected to said casing, and means secured to said cover and electrically insulated therefrom to provide contact means for electrical fixtures threadedly connected to said upper deck.

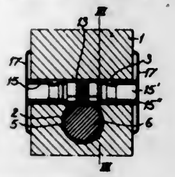
2,589,748
DRY PRINTING AND DEVELOPING MACHINE
Frederick Otto Trump, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application October 3, 1947, Serial No. 777,653
5 Claims. (Cl. 95—94)

4. In a developing machine of the type described an aqueous ammonia developer vaporizing chamber comprising a closed tank, a wall for said tank having a plurality of perforations for the escape of ammonia vapors, said tank being located in said machine with the perforated wall facing downwardly and in a substantially horizontal position, whereby predominantly water saturated ammonia vapors reach the sensitized material in contact with said wall, and means comprising vertically extending barriers on the inside surface of said wall between each of said perforations and providing a means between said



barriers for collecting the condensate of the developer vapors, and by-passing it past said perforations out of contact with said material.

2,589,749
DOOR LOCK
Jacob Petrus Beelaerts van Blokland, Amsterdam, Netherlands
Application January 13, 1948, Serial No. 1,923
In the Netherlands January 16, 1947
2 Claims. (Cl. 70—134)

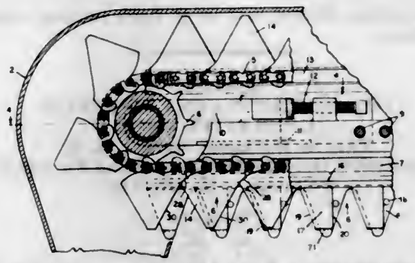


1. A lock comprising a sleeve to be applied in a bore of a door and extending at right angles to the plane of said door, a tumbler associated with said sleeve and having a single tooth, a cylindrical bolt casing to be applied in a second bore of said door extending at right angles to said first bore and communicating therewith adjacent the crossing point, said bolt casing having an opening therein arranged to coincide with said crossing point, when the lock is in position in the door, a bolt slidably movable in said bolt casing having a recess formed in said bolt in position for the tooth of said tumbler to permanently engage said recess through said opening when the lock is in position, said sleeve having a lengthwise extending slit therein for accommodating the tooth of said tumbler and at least one tubular member secured to the sleeve, means for rotatably centering said sleeve in said first-mentioned bore, and means for rotating said sleeve through the medium of a key.

2,589,750
REVIVIFYING SPENT ACTIVATED CARBON BY A PROCESS EMPLOYING A DOUBLE SODIUM BICARBONATE WASH
Herman Leendert Van Nouhuys, Breda, Netherlands, assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
No Drawing. Application April 9, 1948, Serial No. 20,104. In the Netherlands October 6, 1947
2 Claims. (Cl. 252—412)

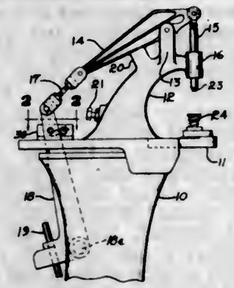
1. A process for revivifying activated carbon that has been rendered inert by contamination by sulphur-containing waste gases and oxidation products thereof incident to the manufacture of viscose rayon, which comprises treating the contaminated carbon with a dilute aqueous solution of sodium bicarbonate and immediately thereafter treating the carbon with a second dilute aqueous solution of sodium bicarbonate that is more concentrated than the first solution, removing the excess liquid from the carbon and drying the carbon at about 110° C. in situ, in the presence of residual sodium bicarbonate, whereby the incompletely oxidized sulphur-containing compounds are completely oxidized and combined with sodium bicarbonate to form sodium sulphate.

2,589,751
MOWER
Rollo E. Van Wagner, New Haven, Ohio
Application January 30, 1946, Serial No. 644,314
11 Claims. (Cl. 30—196)



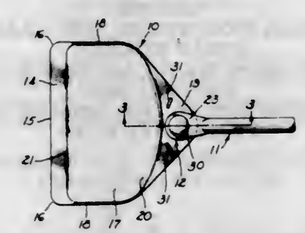
2. In a shearing device, support means including spaced cooperating half sections with cavities between, spaced ledger plates held in said cavities, and having parallel inner faces terminating in cutting edges disposed in a plane transverse to the planes of said faces, a knife of uniform thickness substantially equal to the space between said plates movable to a position between said plates, and means preventive of wedging in cutting, including cutting edges on said knife perpendicular to the planes of said faces.

2,589,752
LOCKING DEVICE FOR FOOT PRESSES
Lewis J. Veilleux, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 29, 1949, Serial No. 135,766
6 Claims. (Cl. 218—5)



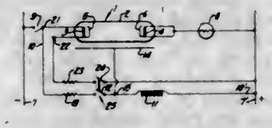
1. In a foot operated machine having a plunger, a rocker arm and a treadle lever for operating said rocker arm for operating said plunger, a safety unit mounted on said machine adjacent said treadle lever to assure that the latter will complete a full stroke once it has started; said unit comprising a bracket mounted on said machine adjacent said treadle lever, a ratchet finger pivotally mounted on said bracket and having one or more notches positioned in its upper surface, said finger having its free end resting on a support surface such as to normally maintain said finger in an inclined position to its pivot point, and a gravity influenced slide member movable in guideways on said lever and having a pawl for cooperating with said ratchet finger notches as a positive stop to prevent the return stroke of said lever when said pawl is moving over the top surface of said ratchet finger, said pivot finger permitting free movement of said pawl under said finger during the return stroke of said lever.

2,589,753
KITCHEN POT OR PAN SCRAPER
Walter L. Vinson, Sherman Oaks, Calif.
Application September 30, 1946, Serial No. 700,220
5 Claims. (Cl. 30—136)



3. In a kitchen utensil, the combination of: a generally spoon-like blade member having spaced forward and rearward ends and having at its forward end a relatively long scraping edge adapted to make line contact with a surface to be scraped; a handle member; pivot means connecting said blade member to said handle member adjacent the rearward end of said blade member for relative rotational movement of said members about an axis substantially perpendicular to said blade member; resilient means retained by said pivot means and engaging one of said members for pressing said one member into frictional engagement with the other of said members; and stop means carried by one of said members and engageable by the other of said members for limiting relative rotational movement of said members.

2,589,754
STARTING AND OPERATING DEVICE AND CIRCUITS FOR ELECTRIC DISCHARGE DEVICES
Philippe Waguet, Paris, France, assignor to General Electric Company, a corporation of New York
Application May 20, 1948, Serial No. 28,223
In France June 14, 1947
2 Claims. (Cl. 315—96)



1. Apparatus for operating a gaseous electric discharge device of the type including a main thermionic electrode and a cooperating main electrode from a unidirectional voltage source

comprising: a discharge circuit including said device, a control switch and a ballast resistance connected in series across said source; a first auxiliary circuit for preheating said device comprising said control switch, said thermionic electrode, a limiting resistance and a normally closed contact of a time-delay relay serially connected across said source; a second auxiliary circuit for starting said device comprising said control switch, a limiting resistance, a second normally closed contact of said relay, and an inductance serially connected across said source; an auxiliary starting electrode for said device positioned intermediate the ends thereof; a direct connection between said starting electrode and the inductive side of said second contact; and a circuit through said control switch and the operating coil of said relay for opening said contacts at a predetermined time interval after the closing of said control switch.

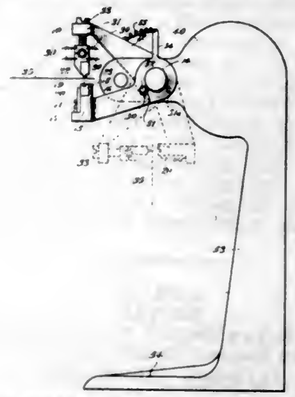
2,589,755
SHOULDER PROTECTOR AND GARMENT STRAP HOLDER
Juanita M. Ward, Marion, and Cecil A. Sutphin, Jonesboro, Ind.
Application April 30, 1948, Serial No. 24,278
1 Claim. (Cl. 2—2)



In a shoulder strap holder, a strip of semi-rigid, non-metallic flexible sheet material designed to rest with its underside upon the shoulder of a wearer, upwardly and laterally inwardly curved flanges rising along opposite side edges of said strap, said flanges extending substantially the length of the strip and having oppositely laterally inwardly directed terminal edges projecting toward each other in vertically spaced relation to the upper side of the strip and providing a channel for reception of a shoulder strap, said strip being curved longitudinally throughout its length in a vertical plane to conform to the downward curvatures of the shoulder of a wearer.

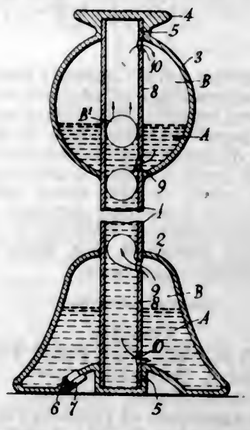
2,589,756
HEAT-SEALING MACHINE
Harry F. Waters, New York, N. Y.
Application June 10, 1949, Serial No. 98,364
5 Claims. (Cl. 154—42)

1. A heat sealing machine including in combination a supporting structure having an offset apertured supporting arm, a fixed shaft mounted in the apertured portion of said arm, two jaws mounted for swinging adjustment upon said shaft and capable of having their outer spaced ends disposed in fixed adjusted operable positions at right angles from a horizontal to a depending vertical position, means associated with one of the jaws and the supporting arm to lock the jaws in either position, cooperating compressing and heat sealing means carried in the free ends of said jaws, a spring for biasing one jaw away from the other, and means for moving



said spring biased jaw in to heat sealing closed position.

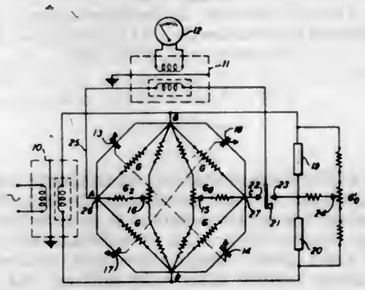
2,589,757
TOY OF THE FLUENT MATERIAL OPERATIVE TYPE
Paul A. Williams, Snyder, N. Y.
Application October 21, 1950, Serial No. 191,391
8 Claims. (Cl. 46—115)



1. A toy of the fluent material operative type consisting of a vertical transparent tubular column and a reservoir connected to the column at each end thereof, the column and the reservoirs constituting a sealed container for immiscible fluids of different specific gravities, the heavier fluid being a liquid which partially fills the container, each reservoir being formed to provide a supporting standard for the toy and thereby to enable the reversibility of the toy in a vertical position, the reserviors being interchangeably in upper and lower relation accordingly as the toy may be in an initial vertical position or a reversed vertical position, the toy being provided with two openings which establish communication between the column at each end thereof and the reservoir connected to that end, the openings being of restricted areal extent relatively to the areal extent of the column in horizontal section and severally providing for the flow of the liquid from the upper reservoir downwardly through the column and into the lower reservoir and for the escape of the lighter fluid from the lower reservoir upwardly through the column

and into the upper reservoir, the toy being formed whereby the liquid which passes from the column into the lower reservoir through the opening provided for such passage has within the chamber provided by the lower reservoir a downward path of flow which terminates at a point below the opening which provides for the escape of the lighter fluid from the lower reservoir into the column.

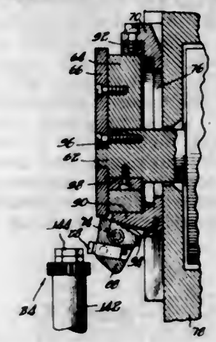
2,589,758
METHOD AND APPARATUS FOR MAKING ELECTRICAL MEASUREMENTS
Bogumil M. Wojciechowski, New York, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application July 22, 1948, Serial No. 40,073
16 Claims. (Cl. 175—183)



13. In a bridge system, the combination with a main bridge having four admittance arms, a source of alternating potential connected across one diagonal of the bridge, and a balance indicator for connection across the other diagonal of the bridge, of means for varying the values of one of the two admittance components in one pair of bridge arms to make the sums of said values across the two pairs of opposite arms equal, means for varying the said admittance component values in one pair of arms to equalize the difference between these values in each of the two pairs of arms, a pair of auxiliary ratio arms serially connected across a diagonal of the main bridge to form an auxiliary bridge including one pair of adjacent arms of the main bridge, and a switch for selectively enabling the indicator to operate with the main bridge or with the auxiliary bridge.

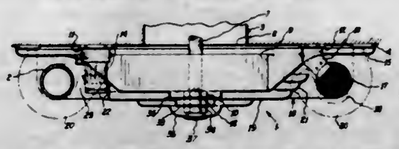
2,589,759
GEAR-CUTTING APPARATUS
Anthony F. Zamis, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application April 10, 1947, Serial No. 740,599
8 Claims. (Cl. 90—8)

1. An apparatus for cutting teeth in the periphery of a blank such as a gear blank including a frame structure, a tool slide associated therewith mounted on said frame structure for reciprocation relative thereto and incorporating spaced shoulders, a cutting tool support on said tool slide, a rotary blank support mounted on said frame structure, rotary cam means mounted in the vicinity of said tool slide with the periphery thereof operable between said spaced apart shoulders for effecting reciprocation of said tool slide at uniform cutting velocity whereby to cause a supported tool to cut transversely of the periphery of a supported blank, at a uniform velocity and means for imparting rotation to said cam means and said rotary blank support, said cutting tool support being positioned substantially in the plane



of reciprocation of said shoulders normal to the cam axis.

2,589,760
LIGHTING FIXTURE FOR CIRCULAR TUBULAR DISCHARGE LAMPS
Elmer J. Zeit, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application May 28, 1948, Serial No. 29,814
2 Claims. (Cl. 240—51.12)

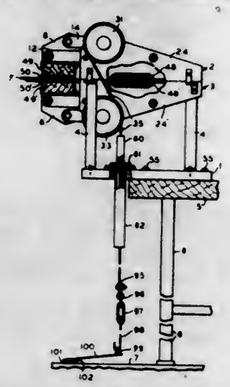


1. A shallow lighting fixture for a circular tubular discharge lamp and a ballast therefor comprising, in combination, a circular housing larger in diameter than the outside diameter of the circular lamp and made up of a flat circular plate and a dished circular reflector plate each having a center opening providing a bore through said housing, a threaded conduit extending through said bore and a nut on said conduit holding the reflector plate with its edge against the flat plate and the flat plate against a suitable support to enclose the lamp ballast within the housing, a lamp holder in the form of a spider having a circular dished hub having a central hole fitted over said conduit, a nut on said conduit clamping said hub against the center portion of the reflector plate with the side wall thereof spaced from and overlapping part of the side wall of said reflector plate, and radially extending arms attached to the side wall of said hub for supporting a circular tubular lamp opposite said wall and in front of the housing.

2,589,761
STAMPING MACHINE WITH PERFECTING FEATURE
Stanley E. Anderson, Chicago, Ill.
Application January 28, 1948, Serial No. 4,910
2 Claims. (Cl. 101—296)

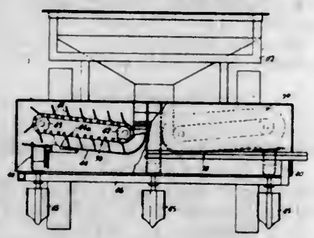
1. In combination, a pair of similar stamping machines and means supporting them in superimposed facing relationship, each machine including a stamping member biased to return to a normal position within the machine from a stamping position lying forwardly beyond the machine, the stamping positions of the two machines being in registry in substantially the same horizontal plane and being disposed on the for-

ward side of a vertical plane behind which both machines and the said supporting means are disposed, thus leaving the region free in the vicinity of the registering stamping positions to facilitate the placement of flat articles into position to be stamped on both sides at the same time, guide means fixed with the machines and said support means, said guide means comprising a pair of horizontal side guide members extending forwardly along the median line of the machines, through said vertical plane, and along respective opposite sides of the said horizontal plane of registry, to thereby define a centrally open guide surface for supporting and locating any said flat



article in substantially the common plane of said stamping positions, and means controlled at the will of the operator of said machines for imparting an impulse to both machines at the same time effective to move the stamping members of both machines forwardly through said vertical plane and toward each other to reach the common plane of the stamping positions at substantially the same time, thereby stamping at the same time on both sides of a flat article positioned on said horizontal guide surface, the last said means including actuating means interconnecting the upper and lower stamping members for simultaneous movement to stamping position.

2,589,762
POTATO FEEDING MACHINE
Charles Barnett and William Barnett, Hatfield, England
Application August 22, 1949, Serial No. 111,635
In Great Britain August 24, 1948
19 Claims. (Cl. 198—54)



1. In a potato planting machine, the combination of a hopper, a downwardly inclined shaker plate at and forming at least part of the bottom of said hopper, said plate being mounted for reciprocation transversely to its direction of inclination, said hopper having an outlet adjacent the bottom end of said shaker plate, a downwardly inclined trough having its upper end beneath said plate, said trough including stationary side walls and a transversely reciprocable shaker bottom plate, said hopper bottom shaker plate, said hopper outlet and said trough each having a transverse width sufficient to permit passage of several potatoes side by side, at least one downwardly inclined chute at the lower end of said trough and of transverse width to receive potatoes in single file, a gate at the upper end of said chute for regulating admission of potatoes from said trough into said chute, means associated with the lower end of said chute and movable past the same to pick off the lowermost potato in said chute at regular time intervals, means for driving said last-mentioned means, and means for reciprocating said shaker plates.

2,589,763
GOLF TEE
John F. Barrett, Indianapolis, Ind.
Application September 30, 1948, Serial No. 51,871
2 Claims. (Cl. 273—33)

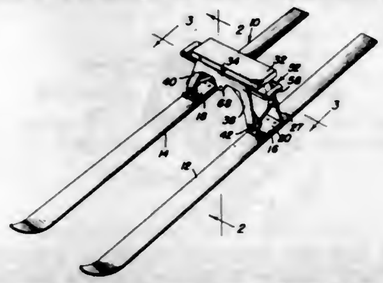


1. A golf tee combination, comprising interfitting separable top and bottom parts constituting a complete tee when interfitted in combination, said top constituting a tee of substantially lower height than said combination and of substantially lower height than said bottom part, said bottom part being of substantially conical form, generally V-shaped in vertical section, and having an outer surface continuously tapered from its top face downwardly, and having a point at its extreme bottom, said top part being generally T-shaped in vertical section, with a disk-shaped head of short height and of a diameter approximating that of the upper end of said bottom part, said head having a recess at the top in which a golf ball may rest, and said top part having a central narrow spike projecting downwardly from the disk-shaped head, said bottom part being provided with an upwardly open central hole to receive said spike, said disk-shaped head having an annular bottom face surrounding said spike and having the edges thereof lying substantially contiguous with the top of said bottom part when the two parts are assembled to limit engagement of said top part with the walls of said hole in said bottom part to a separable frictional engagement, said top part when used separately serving to provide a tee shorter than said bottom part, and said interfitted combination of said top and bottom parts serving to provide a combination tee of greater height than said top part.

2,589,764
SKI SLED
Joseph Basso, Owosso, Mich.
Application September 19, 1949, Serial No. 116,523
2 Claims. (Cl. 280—21)

1. A ski sled comprising a pair of skis, U-shaped brackets mounted longitudinally on the skis, the front legs of said brackets being inclined upwardly and having offset upper ends, a seat board transversely positioned between the skis, supporting plates secured to the front and rear portions of the seat board, each of said plates having opposing downwardly extending arms, longitudinally extending pivot elements disposed through the upper ends of the rear legs of the brackets and the lower ends of the front legs

and on which the arms of the supporting plates are pivotally mounted, a steering member disposed below the seat board and parallel therewith, a pivot element transversely journaled between the supporting plates and disposed through



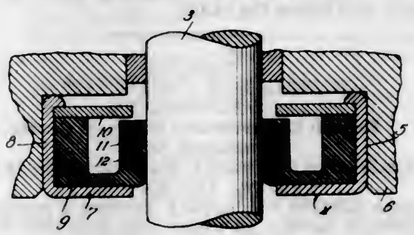
the center of the steering member and control bars pivotally carried by the steering member adjacent its pivot and pivotally secured to the offset upper ends of the front legs of the brackets, whereby tilting motion of the steering member about its pivot is imparted to the skis.

2,589,765
WEB CARRIER AND METHOD OF MAKING
Orion W. Berglund, Dayton, Ohio, assignor to The Orr Felt Blanket Company, Piqua, Ohio, a corporation of Ohio
Application February 17, 1950, Serial No. 144,749
4 Claims. (Cl. 28—76)



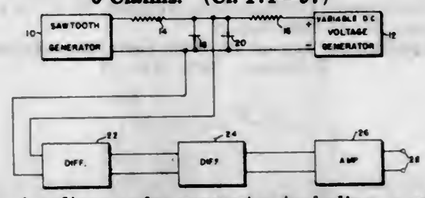
1. A bacteria resistant web carrier for use on wet pulp-handling machines to carry wet pulp through the machine consisting of, a woven fabric belt having warp and woof threads consisting of a wool fiber base, said belt being fulled to a predetermined dimensionally stabilized condition to provide a support for a wet pulp web with porosity to allow for free passage of water through the belt from the wet pulp web, and a phenol-formaldehyde resin in and impregnating said belt cured in situ therein comprising 2½ to 15% by weight of the dry weight of the belt which maintains substantially the same free passage of water through the belt during its service life and resists the action of bacteria on the felt.

2,589,766
MAGNETIC OIL SEAL CONSTRUCTION
Wilburn F. Bernstein, Hollywood, Ill., now by judicial change of name Wilburn F. Bradley; Evelyn Bradley administratrix of said Wilburn F. Bradley, deceased
Application May 4, 1945, Serial No. 591,980
2 Claims. (Cl. 288—3)



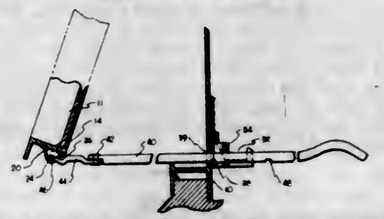
1. An oil-seal for a rotating shaft comprising, in combination, a yieldable packing having an annular sealing lip of rubber-like material adapted for engagement under flexure with the periphery of said shaft, comminuted particles of permanently magnetized material embedded in said lip and interspersed therein, said particles being arranged to define in said lip points of free opposite polarity producing external magnetic flux to maintain said lip in sealing contact with said shaft.

2,589,767
VOLTAGE PULSE GENERATING CIRCUIT
Leon Bess, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application October 19, 1945, Serial No. 623,391
6 Claims. (Cl. 171—97)



1. A voltage pulse generator including: a sawtooth generator; a direct current voltage generator; two impedance means having a common terminal and forming a series connection between one output terminal of said sawtooth generator and one output terminal of said direct current voltage generator; two rectifying crystals respectively having low and high impedance directions, said crystals forming a parallel circuit with the low and high impedance terminals of one of said crystals being respectively connected to the high and low impedance terminals of the other of said crystals, said parallel crystal circuit being connected between said common terminal of said two impedance means and another terminal common to both said sawtooth generator and said direct current voltage generator; first differentiating means having an input supplied by the voltage across said parallel crystal circuit; second differentiating means connected to be responsive to the output of said first differentiating means; and means for amplifying the output of said second differentiating means.

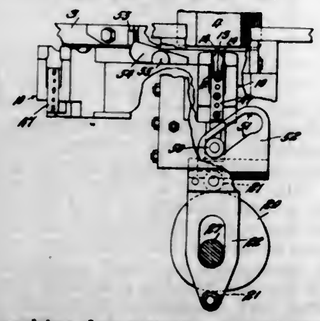
2,589,768
STAY BAR CONSTRUCTION
Rex S. Brownie, Detroit, Mich., assignor to International Hardware Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application July 21, 1950, Serial No. 175,194
1 Claim. (Cl. 292—265)



In a stay bar construction for a swinging ventilator of the type hingedly mounted on its upper edge, the stay bar construction comprising a stay bar and a link pivotally connected thereto by a vertical axis pivot pin, means for pivotally connecting the link to the under surface of the lower horizontal member of the frame of the ventilator comprising a plate

adapted to be mounted under and against such lower surface of the ventilator frame, said plate having a hollow, open-sided dome with a notch therein, said link having a T-shaped end adapted to seat in said dome and enter it through said notch, the link and the plate being separate members, detachably assembled to each other until the plate, with the link end in it, is attached to the ventilator frame with the ventilator frame then closing said dome and thus retaining the ink end loosely but nondetachably in said dome.

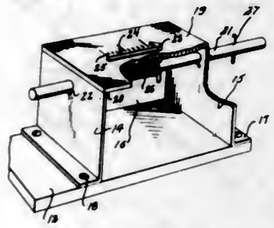
2,589,769
MACHINE FOR INSERTING POURING SPOUTS INTO CONTAINERS
Henry Brucker, Maplewood, N. J., assignor to Seal-Spout Corporation, Newark, N. J., a corporation of New Jersey
Application August 16, 1946, Serial No. 690,901
3 Claims. (Cl. 113—1)



1. A machine for securing a part in a predetermined portion of an article, comprising a support, a carriage on said support having a carrier thereon for holding and moving the article and movable in a predetermined path, a unit to hold a part, means to move said unit alternately in opposite directions and in one direction momentarily synchronously with said carrier along a portion of said path, and means for attaching said part to an article during said momentary movement of said unit including a device reciprocable in said unit and movable approximately in a straight line in one direction to secure said part in said article, and apparatus to actuate said device in said direction including one mechanism operative while said unit is stationary at the starting point of said momentary movement to actuate said reciprocable device through a portion of its movement in said direction and another mechanism operative during said momentary movement of said unit with said carrier to actuate said reciprocable device through the other portions of its movement in said direction, the first-named mechanism including a rotatable cam on said support, a cam follower block movably guided on said support and connected to a part of said device, and the second-named mechanism including a part on said cam follower block and a part on said device cooperative during said momentary movement of said unit.

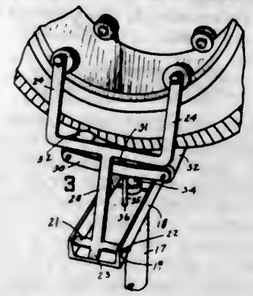
2,589,770
DEVICE FOR MEASURING FRONT-WHEEL PLAY
Othmar J. Bullinger, Johnstown, Pa.
Application May 19, 1949, Serial No. 94,076
3 Claims. (Cl. 33—169)

1. In a device for measuring front wheel end play, a slidable contact rod adapted to engage a wheel, means slidably supporting said rod, a pointer supported solely by and movable with said rod, and indicia associated with said pointer for indicating the front end wheel play of a wheel in response to sliding movement of the rod as a wheel rides against one end of the rod, said indicia including parallel lines disposed transverse-



ly of said rod, said rod including a transverse bore, said pointer including a shank portion extending completely through said bore with ends exposed from the bore, and a spring embracing the rod and having one end seated against the ends of said shank portion and yieldingly urging the rod to a position to be engaged by a wheel.

2,589,771
TIRE SPREADER
Rollin E. Campbell and William P. Thompson, Anderson, Ind.
Application June 30, 1949, Serial No. 102,366
1 Claim. (Cl. 254—50.3)

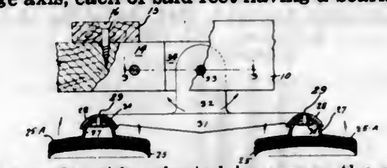


A tire spreader including a tubular column comprising a fluid pressure cylinder, a transversely disposed vertically stationary base rotatably supported at the upper end thereof, a pair of tire bead engaging arms tiltably mounted upon the ends of said base, a platform disposed above said base and vertically movable toward and away from same and rotatable with the base, and a piston operating in said cylinder for raising and lowering said platform, wherein the platform comprises a pair of spaced and curved bar members, the concavity being upon the upper side, a pair of parallel rollers at the ends of the bar members and disposed in bridging relation thereto, and other means between said bar members and disposed parallel to said rollers and between and below the same.

2,589,772
CARRIER FOR USE ON TOP OF AUTOMOBILES
Russell E. Carter and Harry A. Carter, Portland, Oreg.
Application February 4, 1949, Serial No. 74,598
1 Claim. (Cl. 224—42.1)

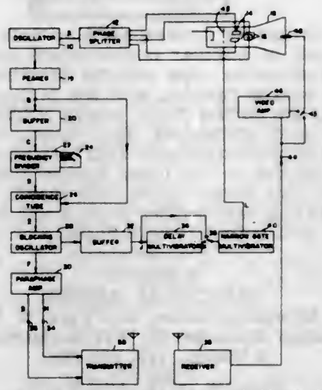
In a support for luggage carriers a supporting standard having its upper end provided with a hinge joint and having a base rigidly secured to the lower end of said standard and having a plu-

rality of spaced feet tiltably mounted on the under side of said base in a plane normal to the hinge axis, each of said feet having a bearing pad



on its under side adapted to engage the surface of a car top and to conform to the contour thereof.

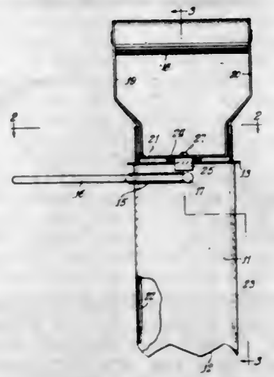
2,589,773
VERNIER RANGING CIRCUIT
Britton Chance, Cambridge, and Arden H. Fredrick, Boston, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application October 3, 1945, Serial No. 620,130
1 Claim. (Cl. 315—22)



A device for measurement of time intervals, including an oscillator, a phase splitter coupled to the output of said oscillator for producing two alternating voltages in time quadrature, a cathode ray tube indicator having a central deflecting anode, means for applying said alternating voltages to said cathode ray tube so as to produce a circular deflection of the electron beam of said tube, means for applying video pulses from an external source to said central deflecting anode, a peaking means coupled to the output of said oscillator, a first blocking oscillator synchronized by the output from said peaking means, coincidence means coupled to the outputs of both of said oscillators, a second blocking oscillator synchronized by the output pulses of said coincidence means, delay means coupled to the output of said second blocking oscillator, square wave generator means, means for selectively applying the output of said second blocking oscillator and the output of said delay means to the input of said square wave generator means, and means for utilizing the output of said square wave generator means to cause a visible trace to be produced on the screen of said cathode ray tube indicator during a selected interval of time.

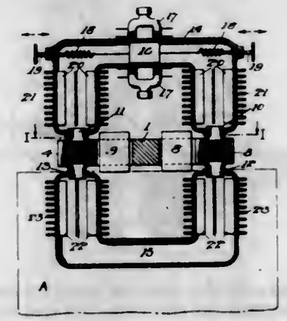
2,589,774
BULB SETTER
Earl C. Chatfield, Oak Park, Ill.
Application January 23, 1948, Serial No. 4,017
6 Claims. (Cl. 294—50.7)

1. A gardener's implement comprising a tubular body member having at one end a flange, and at the opposite end a cutting edge, a pair of scraping blades positioned adjacent to the inner surface of said body member for rotary movement therein, a handle secured to said blades, and a member carried by said handle for latch-



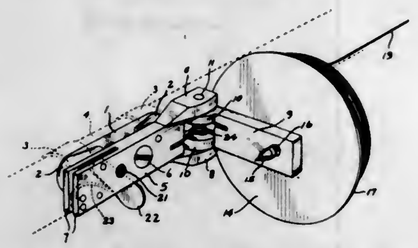
ing said handle to the flange of said body member, when said handle is moved axially towards said flange, said handle being arranged to be rotated when moved away from said flange, thereby to actuate said blades.

2,589,775
METHOD AND APPARATUS FOR REFRIGERATION
Constantin Chilowsky, New York, N. Y., assignor to Technical Assets, Inc., New York, N. Y., a corporation of Delaware
Application October 12, 1948, Serial No. 54,041
20 Claims. (Cl. 62—1)



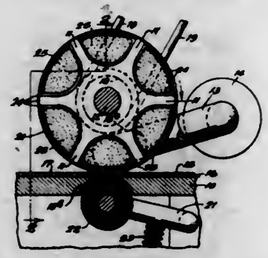
8. Refrigeration apparatus of the character described comprising, a permanent magnet, an armature arranged to concentrate the magnetic flux between the ends of said magnet, a ferromagnetic section occupying a gap in said armature, the section having channels to permit the passage of a fluid in heat-exchange relation therewith and including a part having a Curie point temperature approximating the desired temperature of refrigeration, means for alternately magnetizing and demagnetizing the section, means for passing a fluid in heat-exchange relation with the section in one direction during the magnetization phase and in the opposite direction during the demagnetization phase, means for removing heat from the fluid after its passage in the first direction and means for supplying heat to the fluid after its passage in the opposite direction.

2,589,776
FISHING REEL
Robert D. Colgrove, Vancouver, Wash., assignor to Colgrove Tackle Co. Inc., Vancouver, Wash.
Application June 28, 1948, Serial No. 35,711
2 Claims. (Cl. 242—84.1)



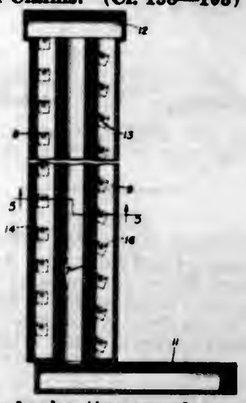
1. A fishing reel comprising, in combination, an elongated base member, an arm pivotally joined to one end of said base member, spring means between said base and arm for urging said arm outwardly away from said base, a spool mounted on said arm for rotation about an axis normal to said arm, the opposite end of said base member having a transverse hole therein, trigger means resiliently pivoted on said base member and cooperating with said hole, and means on said arm receivable in said hole for engaging said trigger means releasably to hold said arm against said base member.

2,589,777
PLASTIC-SEALING APPARATUS
Fred V. Collins, Des Plaines, Ill., assignor to William F. Stahl, Kenilworth, Ill.
Application July 9, 1949, Serial No. 103,792
4 Claims. (Cl. 219—47)



1. Apparatus for sealing plastics comprising a wheel mounted for rotation, the rim thereof being formed of electrical resistance material, electrically conducting means mounted in the plane of the wheel operative to connect together a plurality of pairs of points on the rim to form a plurality of loop circuits spaced around said rim, each of said loop circuits comprising a portion of said rim, and magnetic means mounted adjacent the wheel for passing an alternating field therethrough, said magnetic means and said wheel being relatively oriented non-symmetrically, such that the magnetic field in a particular zone of said wheel near the rim thereof is substantially stronger than said field at any other portion of said wheel, said loop circuits upon rotation of said wheel passing successively through said zone of strongest field and being at all other times in zones of weaker magnetic fields, whereby in any position of said wheel the magnitudes of the induced currents in said loop circuits are sharply unequal.

2,589,778
GAS BURNING METAL TIRE HEATER
Alfred J. Corns, East Beckley, W. Va.
Application August 3, 1948, Serial No. 42,191
4 Claims. (Cl. 158—108)



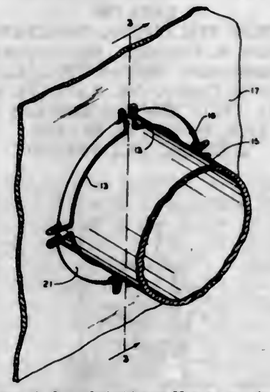
1. A burner for heating annular work comprising a pair of annular burner pipes and an annular preheating pipe secured together in side by side coaxial relation with the preheating pipe between the burner pipes, means supplying fluid fuel to said preheating pipe, means communicating the preheating pipe with both burner pipes, burner orifices in the inner circumferential portions of said burner pipes, and means directing a flame from said orifices at an angle to the axis thereof and both circumferentially of said pipes

2,589,779
SECTIONAL BRUSH
Edmundo Cortes, New York, N. Y.
Application December 19, 1947, Serial No. 792,703
1 Claim. (Cl. 15—202)



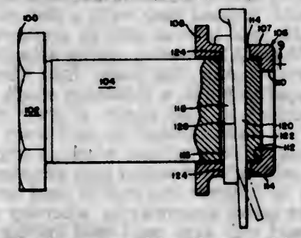
A sectional brush comprising a brush head center section provided with a handle and bristles and having flat side portions from which a pair of reinforced bores are extended through the brush head center section, a plurality of lateral brush sections each of which consists of a narrow brush head with bristles thereon and having flat side portions and being provided with a pair of reinforced bores which register with the bores in said center section, a bolt provided with a nut being extended through each row of registering bores in said sections for detachably connecting said lateral sections to one another and to said center section, and a U-shaped clamp consisting of a perforated back portion and a pair of resilient blade portions extending downwardly from said back portion and being slipped over the brush, thereby the handle being extended through the perforation in the back portion of the clamp while the lower sections of said blade portions press upon the bristles in opposite lateral direction.

2,589,780
HOSE SUPPORT FOR PLASTIC TUBES
Joseph Costello, Rogers Forge, and Howard S. Price, Jr., Catonsville, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application November 5, 1947, Serial No. 784,214
2 Claims. (Cl. 248—56)



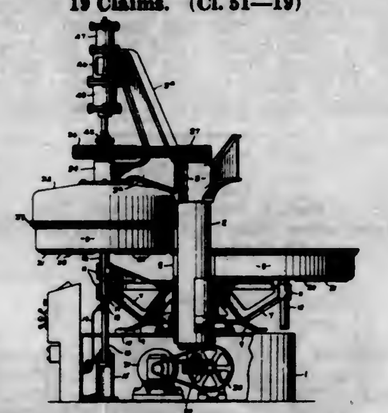
1. A support for frictionally securing a tubular member within an aperture in a bulkhead comprising a wire formed to provide generally circularly curved portions lying in a common plane and adapted for engagement with said tubular member, and spaced portions extending generally radially outwardly from said curved portions and having circumferentially positioned, outwardly opening U-shaped portions on the ends thereof adapted to engage both sides of said bulkhead about the edge of said aperture.

2,589,781
PIN RETAINING MEANS
Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 3, 1948, Serial No. 18,740
1 Claim. (Cl. 85—7)



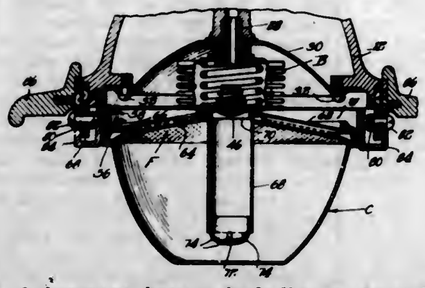
In a fastening assembly, the combination of a pin having a shank with a head at one end, a retaining element mounted on the other end of the shank comprising a sleeve surrounding the shank, an inturned flange on one end of the sleeve disposed outboardly of the other end of the shank and in abutment with said other end thereof, an outturned flange on the other end of the sleeve, said shank and sleeve having elliptical openings extending transversely of the shank and arranged with their major axes extending longitudinally of the shank, the openings in the sleeve being offset outboardly from the opening in the shank, and means securing said retainer element to the shank and urging said shank and retainer element in opposite directions to engage said inturned flange with said other end of the shank, said means comprising a wedge key and a gib extending through said openings in the sleeve and shank and arranged side by side axially of the shank, said gib being disposed inboardly of said key with respect to said other end of said shank, said key and gib being tapered lengthwise thereof in reverse directions and engaging each other at adjacent sides along substantially flat complementary wedge surfaces extending diagonally with respect to the longitudinal axis of the shank, a head on said gib at its smaller end, said head bearing against the exterior of said sleeve and being entirely disposed radially inwardly of said outturned flange with respect to the longitudinal axis of the shank, said key and gib being elliptical in cross section with the major cross sectional axes thereof extending longitudinally of the shank, said key having an uninterrupted elliptical surface extending from end to end thereof and bearing against a complementary surface of the shank defining the outboard margin of its opening, and said gib having an uninterrupted elliptical surface extending from said head to the larger end of said gib and bearing against complementary surfaces of the sleeve defining the inboard margins of its openings, the smaller end of said key being bendable to interlock the key against accidental disassembly thereof from said openings.

2,589,782
MACHINE FOR POLISHING BLADES
John Oliver Creek, Brampton, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application December 20, 1950, Serial No. 201,743
19 Claims. (Cl. 51—19)



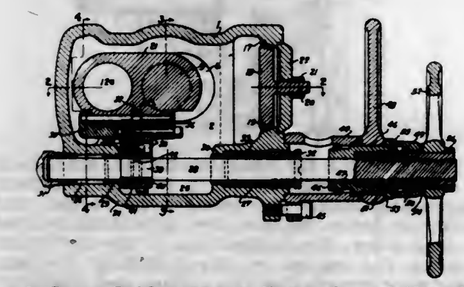
1. A machine for polishing blades, comprising a carrier, a container for a polishing medium disposed adjacent the carrier, the carrier and container being mounted for movement relative to each other, means mounted on the carrier for holding the blades in the polishing medium, means for translating the carrier and container relative to each other to pass the blades in a continuous path through the polishing medium, means to render the density gradient of the polishing medium immediately prior to contact with each blade no greater than the density gradient of the polishing medium when at rest and means for changing, during the translation of the carrier relative to the container, the angles of the holding means relative to the direction of said translation to vary the angles of incidence of the blades between initial angles and limiting angles.

2,589,783
BEVERAGE BREWER
Charles N. Crossley, Riverside, Raymond J. Gagan, Oak Park, and Harvey R. Karlen, Chicago, Ill., and Herbert W. Peters, Milwaukee, Wis., assignors to Cory Corporation, Chicago, Ill., a corporation of Delaware
Application April 9, 1948, Serial No. 20,134
13 Claims. (Cl. 99—295)



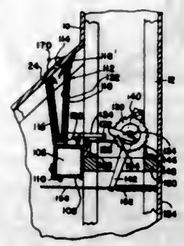
1. A beverage brewer including a depending hot water duct having a discharge port at the lower end, a valve movable upwardly and downwardly normally closing said port and operative to open downwardly in response to direct hydraulic pressure within said duct to permit water to discharge therefrom, an open-top cartridge located directly beneath the hot water duct and adapted to hold a quantity of beverage-making ingredient, a filter unit forming a removable closure for the cartridge top, said filter unit having an intake port, and means for removably holding said cartridge in position to receive water from said duct with said discharge and intake ports in register, said valve being effective to reduce drippage from said discharge port when the flow of water through said duct is shut off consequent upon removal of the cartridge.

2,589,784
GATE VALVE
Paul Y. Duffee, Houston, Tex.
Application June 30, 1947, Serial No. 758,096
10 Claims. (Cl. 251—61)



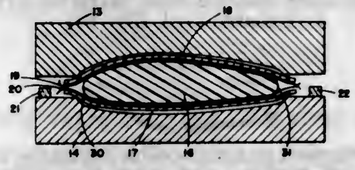
1. In a fluid pressure line valve of the class described, a valve casing having an elongated chamber therein with opposed fluid line opening in its sides intermediate its ends and with opposed relatively tapered walls, a wedge valve longitudinally movable in said chamber between said walls to open and close said openings and transversely movable to have a wedge sealing fit in the chamber at any point in its other movement, a transverse extension from said valve, a shaft mounted for rotary and axial movements in said casing, said extension being eccentrically mounted on the shaft whereby rotation of the shaft imparts sealing or unsealing movements to the valve through the extension and axial shifting movements of the shaft impart said other movements to the valve through the extension, a control for rotating said shaft, and a control having threaded connection with the shaft and operable to axially move the shaft relative to the casing.

2,589,785
SHOE POLISHING MACHINE
William A. Edington, Shreveport, La.
Original application August 22, 1942, Serial No. 455,786, now Patent No. 2,427,768, dated September 23, 1947. Divided and this application May 10, 1945, Serial No. 593,019
1 Claim. (Cl. 194—6)



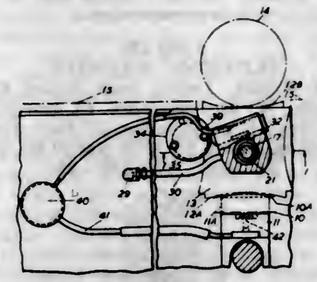
A coin-controlled mechanism, comprising an electric motor, a coin chute provided at its upper end with a coin receiving slot and at its lower end with a coin discharging slot, said chute comprising an inclined front wall, side walls extending at right angles from said front wall, a rear wall movable within said side walls and normally inclined with relation to the front wall, means pivoting said rear wall whereby the angularity between the same and said front wall may be varied a predetermined distance sufficient to be bridged by a coin, electrically conducting strips secured to said front wall and rear wall in opposing relationship with the lower ends of said walls spaced apart, a lateral arm having one end fixed to said pivoted rear wall, a flat spring plate underneath said lateral arm in contact with the free end thereof, a tension spring attached to said lateral arm biasing the same into contact with said flat spring plate, a rotatable shaft, a ratchet wheel secured to said shaft, a lever pivoted on said shaft, a pawl pivoted on said lever and drivingly engaging said ratchet wheel, a trip arm fastened to said ratchet wheel and adapted to move in a path to depress one end of said spring plate to flex the same downwardly whereby upon passage of said trip arm past said spring plate the same recoils upwardly to strike said lateral arm thereby pivoting said rear wall away from said front wall to release the coin therebetween for discharge from said chute, a tension spring connected to said lever, a cable attached to said lever adjacent said latter tension spring, a crank device operated by said motor and conected to said cable for reciprocating the same to oscillate said lever for stepping around said ratchet wheel, a pawl pivoted on the frame member engaging said ratchet wheel preventing retrograde movement of said ratchet wheel, a source of electrical energy, a foot actuated switch, and means placing said electrical strips, switch and motor electrically in series whereby a coin bridging the gap between the converging ends of said electrical strips conditions said motor for operation upon closing of the switch.

2,589,786
METHOD OF FORMING HOLLOW PLASTIC BODIES
Harry C. Engel, Towson, Regis Raab, Baltimore, and Theodore Pajak, Dundalk, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application April 10, 1945, Serial No. 587,546
4 Claims. (Cl. 154—83)



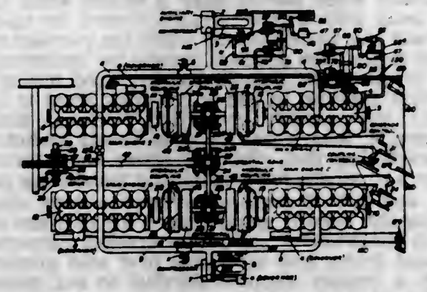
2. That method of making a hollow body of thermo-setting material comprising filling a mold cavity corresponding to the shape of the finished body formed between a pair of abutting complementary mold sections with plastic material, curing the material in the cavity with heat and pressure to provide a core, removing the core from the mold and covering the opposite sides thereof with layers of thermo-setting plastic material to form complementary shells, placing the core and cover assembly in the said mold and partially closing the same whereby the covering occupies the space between the core and the walls of the mold cavity, curing the complementary shells under heat and pressure, removing the core from the cured complementary shells and thereafter bonding the edges of the shells to each other within the said mold.

2,589,787
LABELING MACHINE
Derek Howard Fairest, Sheffield, England, assignor to Morgan Fairest Limited, Sheffield, England
Application February 27, 1951, Serial No. 212,933
In Great Britain March 14, 1950
5 Claims. (Cl. 216—55)



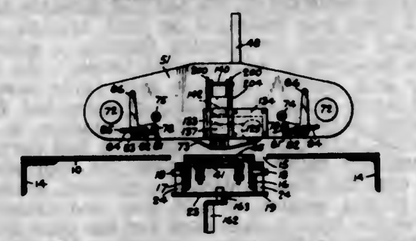
1. A labelling machine of the type having a rotatable delivery box with suction openings in its sides to hold labels transferred, gummed-side out, by a suction pusher movable towards and from a side of the box in one position of the box, the intermittent rotation of the box carrying the label to another position for application to the article to be labelled, said machine comprises continuous connections from a source of suction to the openings in all the sides of the box, a suction connection to the pusher, a valve in the said connection to the pusher, and means operating intermittently in phase with the movements of the pusher and the box to open and close the valve for application to the pusher of suction only during its movement towards the box.

2,589,788
INTERNAL-COMBUSTION ENGINE POWER PLANT
Louis Frederick Rudston Fell, Littleover, England, assignor to Fell Developments Limited, London, England, a British company
Application December 26, 1947, Serial No. 793,903
In Great Britain October 13, 1947
15 Claims. (Cl. 60—97)



1. A power unit comprising in combination two main internal combustion engines each operating with compression ignition, means including at least one compressor driven independently of said main engines and serving to supercharge them, a plurality of engine speed responsive governors each of which controls the fuel injection pump of a main engine, means for varying the speed setting of each governor, a differential gear comprising two sun-wheels and a planet-carrying member, a plurality of variable filling fluid couplings connected to drive said sun-wheels, respectively, means connecting said main engines and variable filling fluid couplings, and control means for said variable fluid couplings whereby each of the said main engines may be selectively coupled and uncoupled to a sunwheel of the said differential gear, means for transmitting power from the planet-carrying member of the said gear to the mechanism which is to be driven by the power unit, and a unidirectional brake device operative on each sunwheel of the said differential gear to prevent reverse rotation of said sun wheel when its associated main engine is uncoupled, and means for selectively controlling the filling of each of said fluid couplings whereby said main engines can be coupled either singly or together to the mechanism to be driven.

2,589,789
BED AND PLATEN DUPLICATING MACHINE
Ronald Max Ford, Birmingham, England
Application November 26, 1948, Serial No. 62,040
In Great Britain December 4, 1947
7 Claims. (Cl. 101—134.5)



1. In a duplicating machine of the class described, the combination of a frame, a bar supported by the frame and including a flat printing table, guides on said bar, a carriage having means engaging said guides, said carriage having a bottom plate disposed under the bar, posts

on the bottom plate, means on the posts engaging the guides, top plates connecting a plurality of posts at opposite sides of the bar, studs on said top plates, a connecting plate extending across the top of the bar and connecting said studs, a clip plate hinged to the connecting plate and cooperating therewith to form a clip for the copy sheets, spring means for closing said clip automatically when the carriage is moved along the bar away from a feed position, means for opening said clip automatically when the carriage returns to the feed position, means for reciprocating the carriage on said bar into and out of a transfer position in which the copy sheet is between the presser and the printing table, moistening means for the copy sheets including a moistening pad, disposed above the printing table, and means for moving said moistening pad into and out of engagement with a copy sheet during the inward movement of the carriage towards the transfer position, a bracket supported on said frame and extending over said printing table, a presser disposed parallel to but spaced from said table, said presser being mounted on said bracket, means for moving the presser towards and away from the printing table, and rollers on the bracket for carrying a flexible master sheet with the portion thereof between the rollers disposed under the presser and over the printing table.

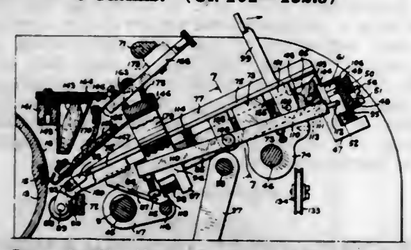
2,589,790

SECONDARY FEED AND MOISTENING DEVICE FOR HECTOGRAPH DUPLICATING MACHINES

Ronald Max Ford, Sparkbrook, Birmingham, England

Original application August 6, 1947, Serial No. 766,797. Divided and this application July 9, 1949, Serial No. 103,933. In Great Britain August 14, 1946

8 Claims. (Cl. 101—132.5)



1. In a duplicating machine of the kind specified a frame, a rotary cylinder for holding the master sheet, a bar arranged parallel to the cylinder and mounted on the frame, a bracket pivotally mounted on the bar and movable along it, a feed tray mounted on said bracket, said bracket having an opening forming a guide, a slide mounted in said bracket beneath the feed tray and slidable through said guide towards and away from the master cylinder but fixed against pivotal movement in relation to the bracket, said tray at its rearward end carrying a pressure roller for pressing the copy sheets fed over the tray against the cylinder, supporting means secured to said tray and extending above the tray, a moistener for the copy sheets on said supporting means, means on the tray for moving the slide towards and away from the cylinder, a second bar below the slide arranged parallel to the cylinder and mounted on the frame, and an inclined surface on the lower side of the slide adapted to engage said second bar when the slide is moved towards the cylinder so as to cause the tray to move pivotally on the bar upon which it is mounted and thus bring the pressure roller into contact with the cylinder.

2,589,791

TOE SHIELD

Willard W. Fine, Columbus, Ohio

Application March 2, 1950, Serial No. 147,307

1 Claim. (Cl. 128—81)



A removable and replaceable device for the correction of bunions and other foot deformities, comprising a body member made of thin, soft, pliable, elastic material which is adapted to be disposed adjacent the affected part, said body member being formed with an integral toe-encircling band for positioning the body member against the first metatarsal joint to provide protection for said joint, said body member comprising inner and outer layers of material secured together, and a pair of symmetrically disposed protective cushions of sponge rubber having semi-lunar top and bottom areas of curved cross-section positioned between said layers, each of said cushions terminating at one end in a concave crescent-shaped edge extending in a smooth curve completely across said end of said cushion, said cushions being positioned with their concave edges facing each other to define a protected area for the bunion, each of said concave edges and said outer layer of material sloping outwardly away from said protected area at an acute angle thereto, each of said cushions being relatively thin at its outer lateral margins and also at its outer margin remote from said protected area, whereby said body member and said cushions present an exterior surface which substantially follows the natural contour of the foot, rising gradually as the protected area is approached and presenting a discontinuity only in that area.

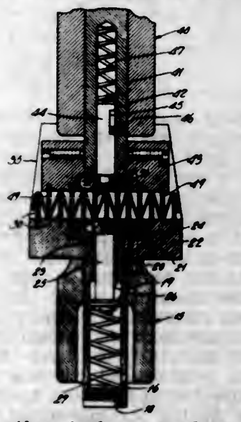
2,589,792

PLEATING MACHINE

Joseph J. Frank, Union, and James C. Macy, Elizabeth, N. J., assignors to Hercules Fasteners, Inc., a corporation of New Jersey

Application March 21, 1947, Serial No. 736,240

5 Claims. (Cl. 270—83)



1. In a pleating device spaced press members, jaws having spaced flat teeth in interdental alignment mounted on said members by means of hollow dowels, springs within the hollow dowels, studs bearing upon the springs and having limited ranges of motion thereagainst, and blocks carried by the studs bearing interdentally aligned flat teeth, the blocks protruding beyond their respective jaws and being sufficiently spaced to admit flexible material between them in non-pleating position, and the springs having enough strength to pleat flexible material over the block teeth first.

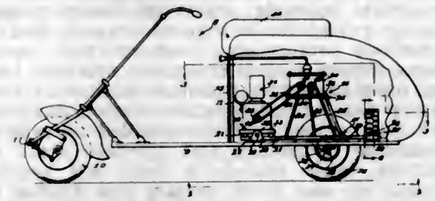
2,589,793

DEMOUNTABLE PROPELLING UNIT FOR VEHICLES

Ralph E. Franks, Baltimore, Ohio

Application April 29, 1949, Serial No. 90,482

1 Claim. (Cl. 180—32)



A demountable driving unit for motor scooters or the like comprising, in combination with a motor scooter chassis including a platform having an elongated opening extending longitudinally thereof and an arch member rigidly disposed over the rear end of the opening, an elongated frame disposed longitudinally of the chassis and pivotally mounted adjacent its forward end on the chassis above the platform for vertical swinging movement through the platform opening, said frame swinging on its pivot in a vertical plane parallel to the longitudinal axis of the chassis, spring suspension means bearing on the rear end of said frame and beneath said arch member and yieldably supporting the rear portion of the motor scooter chassis relatively to the frame, a driving wheel journaled in said frame between the frame pivot and the spring extension means and adjacent the latter and forming the rear wheel of the motor scooter, a prime mover rigidly supported on the frame and having a driving connection to said driving wheel, said frame being normally disposed above the platform opening and substantially parallel to the platform, the frame and parts supported thereby being sized to pass through the platform opening for applying the driving unit to the chassis and for removing it therefrom, a pair of bearings detachably secured to the platform and rising therefrom, said bearings being disposed one on either side of the platform opening and adjacent the forward end thereof, and trunnions fixed to and projecting laterally from the frame adjacent its forward end and journaled in said bearings.

2,589,794

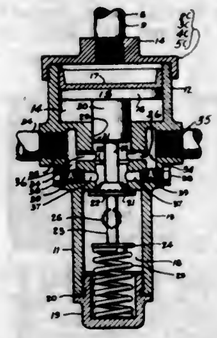
OPERATING VALVE

Virgil L. Frantz, Roanoke, Va.

Application January 16, 1947, Serial No. 722,383

11 Claims. (Cl. 137—69)

1. In an operating valve for use in a sanding mechanism, the combination of, a casing, a valve member within said casing and provided with a large and a small head, said small head being arranged to be displaced from normal position away from a seat to admit the compressed fluid into the space between the lowermost head and the adjacent stem of the valve member, a stem of different cross-section connecting said heads, a chamber in said casing, an outlet leading from said chamber to the exterior of said casing, orifices of different size leading from adjacent said stem to said chamber, and a face of said valve member adjacent the stem thereof being arranged to contact a seat to cut off communication to one of said orifices.



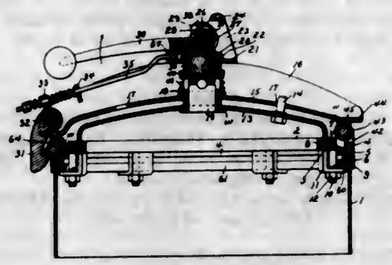
2,589,795

QUICK-OPENING MANHOLE

Hartwell H. Gary, Norfolk, Va.

Application December 6, 1946, Serial No. 714,488

2 Claims. (Cl. 220—57)



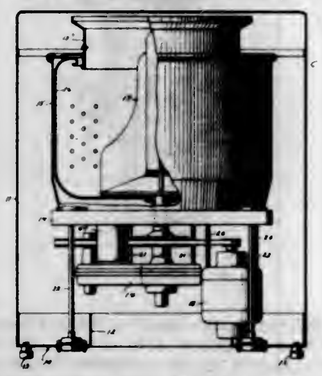
2. In a quick-opening manhole, a manhole ring and a frame sealed thereto, said frame carrying a gasket, a cap adapted to seat against said gasket, a yoke pivoted at one end to said frame and extending diametrically across said frame, a latch carried by said yoke at its other end and a latch keeper on said frame for said latch, a hollow hub secured to said cap and projecting upwardly through said yoke in sliding relation therewith, a ring secured to said hub superjacent said yoke, a spring interposed between said ring and yoke for urging said cap towards said yoke, a shaft rotatably mounted in said yoke, a cam on said shaft, a plug secured in the upper end of said hub and having its upper end terminating in sliding engagement with the lower face of said cam, a fork supported on said shaft, cam members mounted on said shaft and engageable with the ends of said fork, a rod having one end secured to said fork with the other end secured to a lug on said latch and a handle secured to said cam for rotating said shaft and cam members for moving said fork and rod to latch said yoke prior to the engagement of said cam with said plug for compressing said spring and axially moving said cap into engagement with said gasket.

2,589,796

VIBRATION REDUCING SUPPORT FOR WASHING MACHINES AND THE LIKE

Peter Eduard Geldhof, St. Joseph, Mich., assignor to Whirlpool Corporation, a corporation of New York

Application May 23, 1946, Serial No. 671,843
14 Claims. (Cl. 248—22)



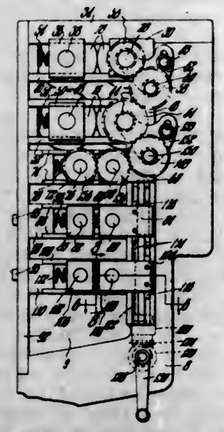
1. A support for a rotating mass comprising a base, a sub-base on which said mass is rotatably mounted, a motor for driving said mass mounted on said sub-base, a plurality of legs extending downwardly from said sub-base to said base and supporting said sub-base in vertically spaced relation with respect to said base, means within the limits of said sub-base and substantially unyieldable in a direction longitudinally of the legs but resiliently yieldable in a lateral direction for securing said legs at their upper ends to said sub-base and at their lower ends to said base.

2,589,797

FIBER CONDITIONING MACHINE

Raymond E. Getchell, Holyoke, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a corporation of Massachusetts

Application June 13, 1947, Serial No. 754,342
2 Claims. (Cl. 19—65)



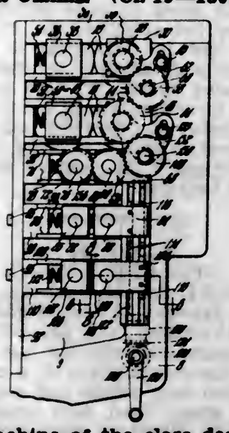
1. Fiber conditioning apparatus comprising in combination, a supporting structure including horizontally spaced vertically extending side frames, upper and lower pairs of extender roll bearings at upper ends of said frames, a stationary bearing of each pair thereof being fixed in said side frames and a movable bearing of said pairs being slidably guided for movement towards and way from said stationary bearings, spring means urging said movable bearings towards said stationary bearings, upper and lower pairs of cooperating extender rolls having end shafts journalled for rotation in the upper and lower pairs of extender roll bearings, upper stationary draft roll bearings fixed in said side frames below the lower pair of extender roll bearings and upper movable draft roll bearings being slidably guided for movement towards and away from said upper stationary draft roll bearings and spring means urging said upper movable draft roll bearings towards said upper stationary draft roll bearings, a cooperating pair of upper draft rolls having end shafts journalled in said upper stationary and movable draft roll bearings, intermediate stationary draft roll bearings slidable up and down in said side frames below said upper draft roll bearings and intermediate movable draft roll bearings being slidably guided for movement towards said intermediate stationary bearings and spring means urging said intermediate movable bearings towards said intermediate stationary bearings, a pair of intermediate cooperating draft rolls having end shafts journalled in said intermediate stationary and movable draft roll bearings, lower stationary draft roll bearings slidable up and down in said side frames below said intermediate stationary bearings and lower movable draft roll bearings slidably guided for movement towards said lower stationary bearings and spring means urging said lower movable draft roll bearings towards said lower stationary bearings, a pair of cooperating lower draft rolls having end shafts journalled in said lower draft roll bearings, the end shafts of the rolls of each pair thereof being provided with intermeshing gears, driving connections between one roll of each pair of draft rolls, and driving connections between the shaft ends of one roll of the pairs of extender rolls and the shaft end of one of the rolls of the pair of upper draft rolls.

2,589,798

FIBER CONDITIONING MACHINE

Raymond E. Getchell, Holyoke, Mass., assignor to B. F. Perkins & Son, Inc., Holyoke, Mass., a corporation of Massachusetts

Original application June 13, 1947, Serial No. 754,342. Divided and this application June 7, 1948, Serial No. 31,503
2 Claims. (Cl. 19—130)



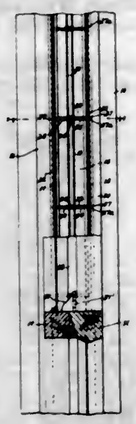
1. In a machine of the class decribed, a pair of horizontally spaced vertically extending side frames provided with stationary bearings fixed thereto and having guideways with movable bearings slidable therein relative to said stationary bearings, a pair of cooperating upper draft rolls having shaft ends journalled in said bearings, springs urging said movable bearings towards said stationary bearings, intermeshing gears fixed to said shaft ends, primary intermediate and lower draft roll bearings slidable up and down in said side frames and each having a guideway extending therefrom and secondary movable bearings slidable in each said guideway towards said primary bearing and providing therewith a pair of intermediate and a pair of lower draft roll bearings slidable relative to each said side frame, pairs of intermediate and lower draft rolls having shaft ends rotatable in the pairs of intermediate and lower bearings, spring means urging said secondary movable bearings towards said primary intermediate and lower bearings, intermeshing gears fixed to the shaft ends of the rolls of the last named pairs thereof and driving connections between the shaft ends of one roll of each pair thereof, and means operatively connecting the primary intermediate and lower draft roll bearings for moving them relative to one another and vertically relative to said frames.

2,589,799

WEIGHTLESS SLIDING AND SWINGING SASH CONSTRUCTION

Charles Goering, New York, N. Y.

Application September 10, 1945, Serial No. 615,381
1 Claim. (Cl. 20—52)



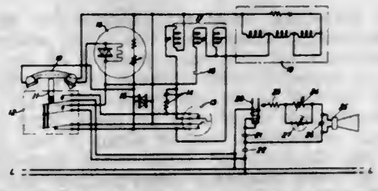
In combination with a window casing having vertical side members, a channel bar on each side member providing opposite rigid vertical flanges disposed in vertical planes, an upper sash having a vertical flange on each side thereof in a position to have sliding engagement with one vertical flange of each of the channel bars, a lower sash having a vertical flange on each side thereof in a position to have sliding engagement with the other flange of each channel bar, and resiliently urged means slidably carried by each channel bar for maintaining spring pressure on the vertical flanges of both sashes to maintain them in vertically adjusted position by the frictional resistance between the engaging flanges in which the resiliently urged means includes a series of horizontally slidable rods mounted in each of the two vertical flanges of each channel bar, the rods associated with one flange having springs urging them against the inner ends of the rods associated with the other flange, the outer ends of each series of rods being directed toward the vertical flange of one of the two sashes, the flanges of both sashes having aperture portions with which the respectively adjacent rods will register in several positions of said sashes, the aperture portions determining said positions and the spacing between the flanges of these sashes being positioned so that when the rods associated with one flange of the channel bar engage against the flange of the adjacent sash, said latter rods push the rods of the other series frictionally against the flange of the other sash, with the result that each set of rods tends to push the other into engagement with the apertures in the associated sash flange when these apertures are shifted into register with said rods by movement of the sash involved.

2,589,800

TELEPHONE SIGNALING SYSTEM

Walter D. Goodale, Jr., Summit, and William H. Martin, Short Hills, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 19, 1950, Serial No. 163,032
5 Claims. (Cl. 179—87)



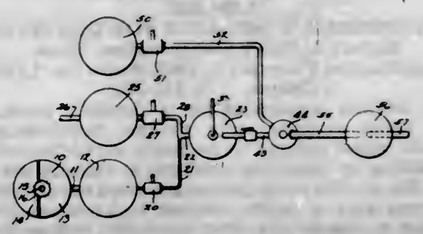
1. A telephone station comprising a tuned reed relay having a driving coil and a vibratile contact, a thermally sensitive variable resistance having a negative temperature coefficient of resistance, a condenser, and an electromagnetic acoustic transducer, a two-conductor line connecting with said station, means connecting the driving coil of said relay in series with said condenser across said line, means connecting said transducer in series with said variable resistance, means connecting one terminal of said transducer and resistance combination to one conductor of said line, means connecting the other terminal of said transducer and resistance combination to one terminal of said vibratile contact and further means connecting the other terminal of said vibratile contact to the other conductor of said line.

2,589,801

METHOD FOR PRODUCING CACAO-MILK BEVERAGE MATERIAL

George Grindrod, Oconomowoc, Wis.

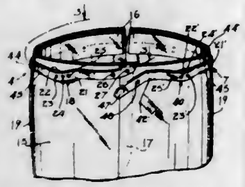
Application August 28, 1947, Serial No. 770,994
14 Claims. (Cl. 99—25)



1. Those steps in the herein described process of making cacao-milk beverage material, which consists in mixing about 4% by weight of finely

divided cacao powder with a batch of sweetened milk concentrate to obtain a mixture having about 38% total solids, agitating the mixture at coagulating temperatures to obtain general adsorption of the milk solids on the cacao solids, and diluting, canning and sterilizing the resultant product, the concentration of the milk concentrate being such that the adsorption occurs without granulation and sterilization occurs without curdling.

2,589,802
WAIST GRIP BELT STRAP
Amedeo Grisanti, Mount Vernon, N. Y.
Substituted for abandoned application Serial No. 61,870, November 24, 1948. This application March 17, 1951, Serial No. 216,137
8 Claims. (Cl. 2—237)



1. A belt-type waist-grip means for an apparel garment, comprising two strap assemblies both carried by the waist portion of the garment at opposite sides thereof, each strap assembly having as its two main units an outer non-stretchable strap and an underlying longitudinally stretchable elastic strap of less length than the first-named strap, said first-named strap of each assembly intermediate the ends of said strap being secured to the garment adjacent to and along the upper and lower longitudinal edges of said strap to provide a tunnel between said strap and the outer material of the garment, said elastic strap in each assembly being extended through said tunnel, in each assembly the rear end of said first-named strap being secured to the garment at the back thereof and at one side of said back and the rear end of said elastic strap being also secured to the garment adjacent to the rear end of said first-named strap, snap fasteners in each assembly partially carried by each of the two straps thereof for locating the point of connection of the forward end of the elastic strap to the first-named strap at a selected one of several different distances from the front end of said last-named strap, and a snap fastener partially carried by each of the two non-stretchable straps near their forward ends, the two non-stretchable straps being long enough to overlap at the front of the garment for coaction of the fastener parts of the last-named fastener.

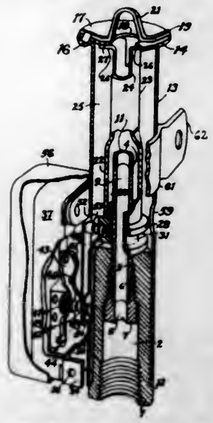
2,589,803
SUSPENDED WORK SEAT FOR DENTISTS
Robert J. Haley, Longmeadow, Mass.
Application February 9, 1948, Serial No. 7,162
4 Claims. (Cl. 155—58)

3. Seating apparatus for a dentist's personal use while working on a patient, comprising a saddle small enough to be easily straddled when in sitting or standing position, a support carrying the saddle and projecting backwardly from its rear side a short distance to be offset from a user on the saddle, then upwardly higher than a user's head will be when in sitting or standing position astride the saddle, then forwardly to a point generally overlying the saddle, then vertically to a ceiling level, a horizontal track to be supported at such ceiling level, a carriage device movable on said track, said support construction from said saddle having vertically ad-



justable suspending means at the top thereof including a swivel joint and hanging from said carriage device for supporting said saddle substantially as disclosed.

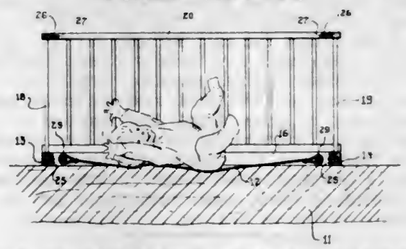
2,589,804
INTERNALLY FIRED SAFETY PILOT GAS BURNER
John L. Harris, Whitefish Bay, and Clifford Hotchkiss, Milwaukee, Wis., assignors to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application November 12, 1946, Serial No. 709,128
7 Claims. (Cl. 158—115)



2. A safety pilot burner comprising a fuel emitting nozzle, a first thermally expansible tube forming a mixing and flame confining passage extending from said nozzle in the general direction of fuel flow to a discharge end opening to atmosphere, the portion of said first tube adjacent said discharge end having a cross-section other than circular, a second thermally expansible tube disposed in surrounding, spaced relation with said first tube and having one end adjacent said discharge end of said first tube, a heat conducting member rigidly uniting said one end of said second tube and said discharge end of said first tube and forming an end-wall closing the space between said tubes, a support fixedly mounting said other end of said second tube,

control means operatively connected to said first tube and actuated by expansion of said first tube, an opening in said second tube adjacent said other end thereof for admitting air to the space between said first and second tubes, the wall of the other than circular cross-sectioned portion of said first tube having an opening therein at a point furthest from the central longitudinal axis of said first tube, whereby flow of fuel through said first tube causes air to flow from said space between said first and second tubes, through said opening in said first tube and to then flow through said first tube toward said nozzle in counter-flow relation to the fuel flow with a minimum cooling effect on said first tube permitting maximum thermal expansion thereof and a maximum cooling effect on said second tube permitting minimum thermal expansion thereof.

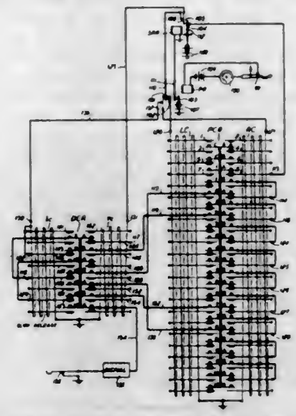
2,589,805
PORTABLE FOLDING BABY CRIB
Joseph M. Hausner, Jr., Berwyn, Ill.
Application July 23, 1945, Serial No. 606,542
1 Claim. (Cl. 5—99)



In a portable folding baby crib arranged to be placed on a bed or the like to take advantage of the soft mattress support of the bed, a base support frame, a bottom sheet of waterproof flexible material disposed within the confines of said support frame, said flexible material having a tube formed at each end thereof, and said support frame being provided with transverse rods disposed adjacent each end thereof and each rod arranged respectively to be received into one of the tubes, foldable side and end wall members hingedly fixed to said frame and arranged to swing inwardly from a vertical open position to a substantially horizontal folded position, said flexible material being disposed in the frame with the side marginal regions of the flexible material being free from and in spaced relationship with the sides of said support frame and with enough slack to adapt the flexible material to conform to the contours of the baby's body placed in the crib, said arrangement being particularly characterized in utilizing the weight of the baby's body when disposed in the crib to prevent movement of the crib when placed on a bed and in providing the advantage of the soft support of the mattress and yet preventing the soiling of bed covering due to the activities of the baby.

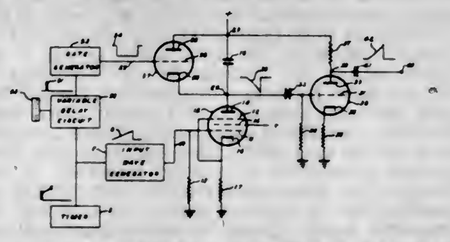
2,589,806
SELECTIVE SIGNALING SYSTEM
Clarence N. Hickman, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 3, 1947, Serial No. 758,904
10 Claims. (Cl. 177—353)

1. In an electrical impulse signal system, selective signaling means comprising in combination a first magnetic contact counting relay containing a plurality of movable contacts adjacent to a plurality of corresponding stationary contacts, means for displacing successively a number of movable contacts into electrical continuity with adjacent stationary contacts corresponding to the number of electrical impulses received, a slow-release relay adapted to remain operated during brief intervals between impulses received in uninterrupted train and to release said first counting relay during transmission interruptions at the end of each train of impulses comprising a group, a second magnetic contact



counting relay similar to the first and interconnected therewith to count any number of distinctive groups of impulses received in a particular sequence corresponding to a predetermined code, means for resetting said second counting relay upon the reception of any group of impulses not a part of the predetermined code, a signaling indicator cooperatively connected with said second counting relay so as to be operated by the registration on said second counting relay of the last group of impulses comprising the predetermined code, and means for restoring both counting relays to normal prior to transmission of any code.

2,589,807
ELECTRICAL INTEGRATION CIRCUIT
William A. Higinbotham, Santa Fe, N. Mex., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 24, 1945, Serial No. 574,374
5 Claims. (Cl. 250—27)



4. A voltage generator including a source of recurring input voltage waves, each input voltage wave representing a function of an independent variable, a first vacuum tube having at least a cathode, control grid and anode, an output circuit for said vacuum tube, said output cir-

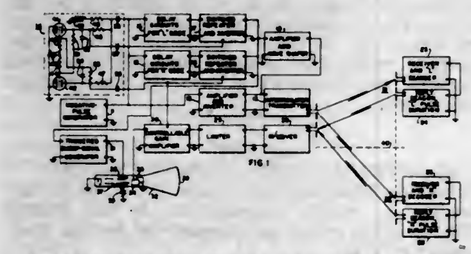
cuit including a capacitance and normally closed switch means connected in parallel therewith, said switch means comprising a second vacuum tube having at least a cathode, a control grid and an anode, the said capacitance being connected between said cathode and said anode, said source being connected to the control grid of said first vacuum tube whereby input voltage waves are applied to said control grid; said first vacuum tube being adapted to provide a recurring current wave in said output circuit, said current wave corresponding in form to said input voltage wave, a timing means, said timing means being connected to said source and adapted to initiate each input wave, a gate generator having its output connected to the control grid of said switch means and a variable delay circuit connected between said gate generator and said timing means, said variable delay circuit cooperating with said timing means and said gate generator to open-circuit said switch means at a predetermined time after initiation of each input voltage wave, whereby a recurring output voltage wave is developed across said capacitance, said output voltage wave representing a definite integration of said function, the lower limit of integration corresponding to said predetermined time after initiation of each input voltage wave, and a vacuum tube amplifier having at least a cathode, a control grid and an anode, the said capacitance being connected in the grid-anode circuit of said amplifier, whereby the said output voltage wave may be amplified.

2,589,808

TRANSPONDOR SYSTEM

Charles J. Hirsch, Douglaston, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois

Application October 21, 1946, Serial No. 704,581
6 Claims. (Cl. 343—11)



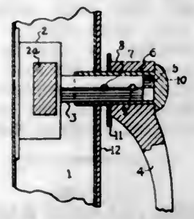
1. A transpondor system comprising: two relatively fixed spaced wave-signal beacons adapted to receive an interrogating modulated wave signal of predetermined frequency and each so constructed as to be responsive to an individual different coding of the modulation signal of said wave signal for individually transmitting response wave signals; a transmitter spaced from said beacons arranged to transmit said interrogating modulated wave signal of said frequency and having said modulation-signal coding which during successive operating intervals of said transmitter causes said beacons individually and successively to respond thereto to transmit said response wave signals in succession; indicator means coupled to said transmitter and arranged to have operating cycles occurring in timed relation to the modulation-signal components of said interrogating wave signal for providing indications of said response signals; and a control system arranged to cause said indicator means to produce during said successive operating intervals, but in correlated relation, individual ones of said response signals to indicate the differences in the times of signal travel between said transmitter and each of said two beacons.

2,589,809

SAFETY DOOR LATCH FOR VEHICLES

Emerick Hodaly, Detroit, Mich.

Application September 14, 1949, Serial No. 115,604
2 Claims. (Cl. 292—352)



1. A latch construction for vehicle doors comprising a latch-operating stem, a handle having its hub formed with a substantially cylindrical opening extending from side to side of such hub, a mounting for said handle carried by the stem and having an exteriorly cylindrical portion slip-fitted in said opening, a pin securing the mounting on the stem, and a pin normally establishing a drive from the handle to the mounting and removable to afford free rotation of the handle on the mounting, said mounting having a terminal head retaining the handle on the mounting when said removable pin is removed.

2,589,810

PROCESS FOR PREPARING GAS ATMOSPHERE

Walter H. Holcroft, Detroit, Mich., assignor to Holcroft & Company, Detroit, Mich., a corporation of Michigan

Application March 29, 1948, Serial No. 17,682
2 Claims. (Cl. 252—372)

1. A method of reacting a gaseous hydrocarbon fuel with air to produce a gas atmosphere consisting essentially of CO, H_2 and N_2 wherein only a part of hydrocarbon fuel is reacted in the presence of a catalyst, said method comprising first burning a gaseous hydrocarbon fuel with air without the aid of a catalyst to form gaseous products including CO_2 and H_2O, heating a catalyst indirectly by the combustion, removing from the gaseous products the major portion of the H_2O together with any impurities which are condensable, commingling with said products an additional quantity of gaseous hydrocarbon fuel sufficient to convert the remaining CO_2 to CO and H_2, and subjecting the mixture to the action of the heated catalyst.

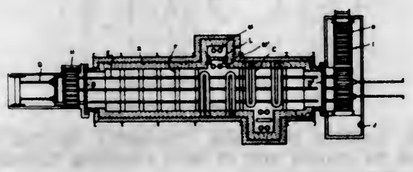
2,589,811

GAS ATMOSPHERE GENERATING MEANS FOR HEAT-TREATING FURNACES

Walter H. Holcroft, Detroit, Mich., assignor to Holcroft & Company, Detroit, Mich., a corporation of Michigan

Application April 5, 1948, Serial No. 19,144
1 Claim. (Cl. 263—15)

Gas generating means for a heat treating furnace supplied with a gas atmosphere and having means conveying work to be heat treated longitudinally through the furnace chamber, said furnace having a pocket in a vertical side wall thereof out of the path of the work, comprising a container of an oblong cross-section extending across said pocket and longitudinally thereof, said container having a catalyst therein, means for passing through said container the products of combustion of a carbonaceous fuel commingled with a proportionate quantity of hydrocarbon gas to subject the mixture to the action of the catalyst and to discharge the gaseous products into said pocket, a pair of U-tubes extending through the top of said furnace chamber into



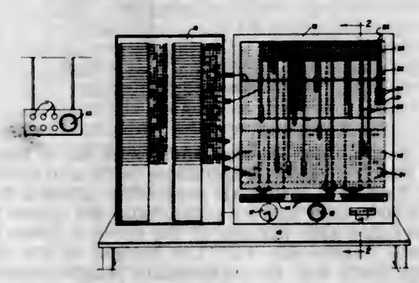
said pocket on opposite sides of and in proximity to said container, and means for heating said U-tubes by the combustion of a mixture of hydrocarbon fuel and air therein to supply heat for the endo-thermic reaction within the container and to maintain the temperature of the catalyst at a temperaure above that of the gaseous atmosphere within the furnace, the products of combustion from at least one of said tubes supplying one constituent of the aforesaid gaseous mixture passed through said container.

2,589,812

WORK PROGRESS BOARD

Maxwell D. Hoskins, Denver, Colo.

Application May 26, 1949, Serial No. 95,470
4 Claims. (Cl. 35—24)



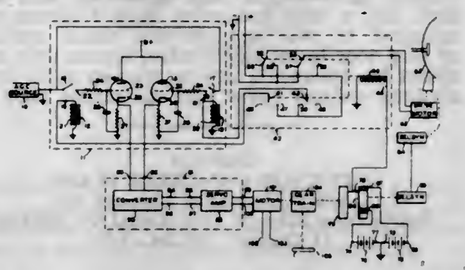
1. A work progress board for central station representation and control of conditions and operations in a multi-department establishment, comprising a panel surface-divided into uniform intervals of time, departmental area representations on said panel perpendicular to the denoted time intervals, paths in said areas perpendicularly traversing the time intervals for the respective departmental operating facilities, a shuttle shiftable along each of said paths for selective registration with said time intervals, and means for selectively and interchangeably marking said shuttles and the path and time interval intersections with multiple particular work piece and workman identifications, wherein the shuttle path and time interval intersections are marked as holes of uniform size in the panel, the shuttles are yieldably maintained at one end of their respective travel paths, and each of said shuttles is equipped with a fixed peg directed toward the panel face for selective engagement with the panel holes of its path to register the shuttle nose with a predetermined time interval and with a plurality of marker peg seats spacedly aligned in the exposed face thereof.

2,589,813

ANTENNA POSITIONING SYSTEM

Robert I. Hulsizer, Jr., Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War

Application May 30, 1945, Serial No. 596,724
3 Claims. (Cl. 343—100)



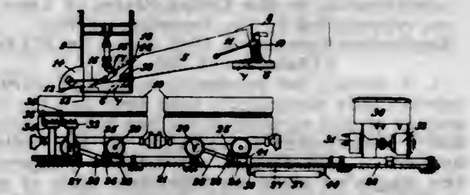
1. An antenna positioning system, comprising a directional signal receiving antenna having a beam pattern adapted to scan thru an angle in a given plane sector, a motor for driving said antenna, a source of energizing potential for said motor; a relay, having contacts in the circuit between said motor and said source, for controlling the polarity of the potential with respect to said motor; a second source of energizing potential, a circuit including a rotatable commutator connecting said second source and said relay, an angular position transmitting device connecting said antenna and said commutator, a contact controlling the connection between said commutator and said relay, a cam for controlling the position of said contact, motor means for displacing said cam to effect a shift in the position of said contact; an automatic gain control circuit for supplying a signal, the relative value of a given polarity of which is inversely proportional to the intensity of the signals received thereby, a circuit for periodically transducing signals from said gain control circuit including actuating means therefor, circuit control means for said actuating means controlled by said relay; and means for converting the output of said transducing means into a sine wave, the presence and relative phase of which depends on the comparative polarity of said output, said last named means being connected to energize said second motor.

2,589,814

CHUTE FOR THE DELIVERY OF MATERIAL SUCH AS COAL

David Jackson and James Thomson, Glasgow, Scotland, assignors to Mavor & Coulson, Limited, Glasgow, Scotland

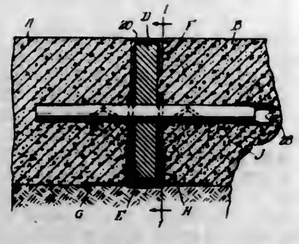
Application June 13, 1947, Serial No. 754,472
In Great Britain November 22, 1944
2 Claims. (Cl. 214—41)



1. A chute for discharging the output of a conveyor to a filling position for vehicles separated by inter-vehicle spaces, a door operatively associated with the discharge end of said chute, a pressure-fluid operated unit connected

to said door for opening and closing it, pressure-fluid operated apparatus for moving the vehicles in succession into the filling position, a pressure fluid system incorporating both said unit and said apparatus, control means also incorporated in said pressure fluid system to control operation of said apparatus and said unit, and a valve connected in said system and actuated by said unit in the closed position of said door to set said control means into condition for advancing the vehicles so as to bring an inter-vehicle space past the closed door.

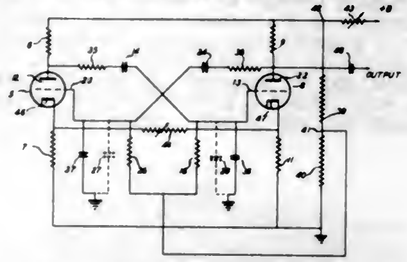
2,589,815
JOINT FOR CONCRETE SLABS
James H. Jacobson, Chicago, Ill.
Application June 18, 1945, Serial No. 600,023
11 Claims. (Cl. 94—18)



1. A joint assembly for reinforcing two monolithically poured concrete slabs assembled as a complete self-supporting unit and when placed in operative position constituting in its entirety a permanent slab connecting joint unit and completely embedded in and connecting said slabs, when the same are poured, said joint assembly including a spacer member extending longitudinally between the slabs when poured and fitted with reinforcing means along its bottom edge, feet joined to the reinforcing means and extending laterally therefrom at spaced intervals, paired bearing plates spaced laterally and longitudinally of the joint and located at opposite sides of the spacer member adjacent the feet, said bearing plates being disengageable from the spacer member to permit the latter to be removed from the joint assembly, a dowel extending through each pair of bearing plates and projecting beyond the same and arranged to extend into the slabs adjacent thereto when the same are poured, and spring means engaging each bearing plate to hold the same in position adjacent the spacer member.

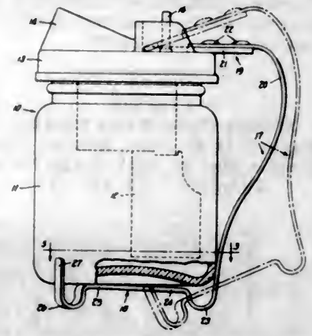
2,589,816
BALANCED SERIES LOOP SINE WAVE OSCILLATOR
Paul Jarmotz, Boston, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 8, 1945, Serial No. 576,845
4 Claims. (Cl. 250—36)

1. A circuit for producing a voltage varying substantially sinusoidally with time and the frequency of said variational voltage being substantially independent of variation in B+ voltage applied to said circuit, said circuit comprising two stages of audio amplification, each of said stages including an electron tube with at least a cathode, a grid, and an anode; means for controlling the gain of said stages by cathode degeneration, frequency selective resistive-capacitive coupling circuits for coupling said stages in a balanced-series loop, adjustable resistive means connected between said cathodes of said two stages for adjusting the stability of said circuit; and means for returning said grids of said stages



to a positive bias, the frequency having such value as causes one of said coupling circuits to have zero phase shift.

2,589,817
VAPORIZER CARRIER
Max Katzman, Brooklyn, N. Y.
Application October 25, 1949, Serial No. 123,463
5 Claims. (Cl. 219—40)

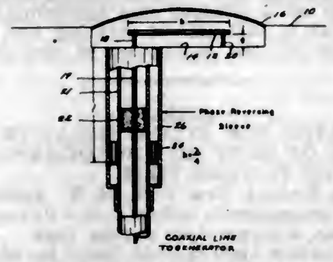


1. A combined carrier and stand, for a vaporizer which includes a container body and a cover with electrode terminals projecting upward from the cover, said carrier comprising an upper jaw engageable with the top of the cover, a lower jaw or base engageable with the bottom of the container body and an intervening handle member resiliently connecting the upper and lower jaws and tending to hold said cover to said container body, said lower jaw and handle member disposed to embrace the lower portion of the container body, and said upper jaw including a notched extension plate which is adapted to be interlocked with the electrode terminals.

2,589,818
ANTENNA
Ronold W. P. King, Winchester, Mass., assignor to United States of America as represented by the Executive Secretary of the Office of Scientific Research and Development
Application June 25, 1946, Serial No. 679,076
10 Claims. (Cl. 250—33)

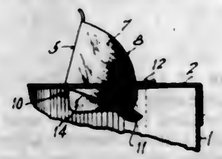
1. An antenna for metal aircraft comprising, an antenna conductor recessed below the air stream surface of the plane, and substantially parallel thereto, a dielectric cover closing the recess, a metal image plate beneath the antenna conductor and substantially parallel thereto, a coaxial transmission line having its central conductor connected to one end of the antenna and its outer conductor terminating in on open end,

and means for impressing reverse phase currents on said image plate, said reverse phase means including a tubular conductor surrounding said



coaxial line and connected at one end to said image plate and to the coaxial line at the other end.

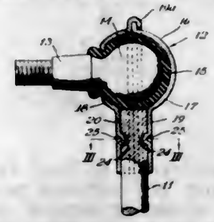
2,589,819
COMBINED SIFTING AND POURING SPOUT
Milton H. Klausmann, Maplewood, N. J., assignor to Seal-Spout Corporation, Newark, N. J., a corporation of New Jersey
Application November 4, 1950, Serial No. 194,133
1 Claim. (Cl. 222—480)



The combination with a container having a substantially rectangular discharge aperture in one wall thereof, of a tab hingedly connected to said wall at one end of the aperture for swinging movement into and out of said aperture, a pouring spout hingedly connected at one end to said wall adjacent the hinging of said tab to open and close said aperture and comprising a body portion overlying said tab with one end portion adapted to project beyond the free end of said tab and the other end of said aperture for engagement with said wall in the closed position of the spout to limit closing movement of the spout and to seal said outer end of said aperture, and sector shaped side walls on said body portion having their outer faces frictionally engaging the side edges of said aperture to seal said edges in the closed position of said spout, and a perforate sifting plate fastened at one end to said tab for movement therewith to cover and uncover said aperture, said plate being of a size to project beyond the end of said aperture opposite said tab for engagement with said wall when the plate is in position to cover said opening, said plate also having side flanges frictionally engaging the side walls of said spout to form a seal between said plate and said spout.

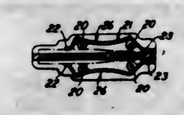
2,589,820
SHOCK ABSORBER LINK
Anton W. Konchan, Berwyn, Ill.
Application September 8, 1948, Serial No. 48,191
1 Claim. (Cl. 287—85)

In a linkage assembly, a housing comprising a pair of metal halves shaped to form complementary half sections of a ball-shaped socket with a reduced diameter cylindrical pin receptacle extending from one side thereof, said halves having interlocking flanges at their respective abutting edge portions to matingly engage one another in locked-together assembly, a hollow spherical rubber bushing in said socket, a stud having a ball on the end thereof universally journaled in said bushing and a rod in said pin



receptacle, said rod and the half sections of said pin receptacle having interlocking dimples and projections formed therebetween to matingly engage on another in locked-together assembly.

2,589,821
REED HOLDER
Marvin Stanley Korshak, San Jose, Calif.
Application August 12, 1946, Serial No. 690,051
2 Claims. (Cl. 206—16)

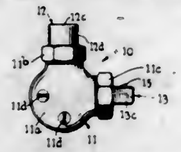


1. A reed holder comprising a base, and reed-retaining means on said base for releasably holding a plurality of reeds in non-warping positions thereon, said means consisting of a plate extending normally from said base and dividing the same into a plurality of sections; said plate presenting a planar face to at least two sections, a pair of aligned tubular posts projecting normally from said base in each of said sections and arranged in spaced relationship with respect to one another as well as with respect to the planar faces of said plate, a resilient member mounted on the pair of aligned tubular posts in each section; each of said resilient members consisting of an inwardly curved central portion for engagement by a finger, inwardly and outwardly projecting end portions, and a pair of ears positioned at each end of said central curved portion overlying said posts, and escutcheon pins piercing said ears and fitted into said tubular posts to hold said resilient members on said post; the free end of said projecting end portions normally terminating in the plane of the planar face of said plate, pressure applied at the curved central portion of each of said members causing said end projecting portions to be urged away from said plate while release of pressure on said curved portions causing said end projecting portions to be urged toward said plate whereby at least one reed can be releasably retained in a non-warping position on said base between said plate and said end projecting portions of each resilient member in each of said sections.

2,589,822
ANGLE GEAR-TRANSMISSION COUPLING FOR ROTARY TOOLS
Charles Kostka, Bronx, N. Y.
Application May 8, 1950, Serial No. 160,799
11 Claims. (Cl. 74—423)

1. An angle gear transmission coupling device for rotary tools comprising a split casing, a one-piece branched shaft having a pair of axles and an anchoring arm angularly disposed with re-

spect to each other secured to the casing by said anchoring arm to extend therewithin, gear members having meshing teeth portions journalled on



said pair of axle arms in bevel relation wholly with said casing, end portions carried by each gear member projecting beyond casing for detachably mounting manipulating attachments.

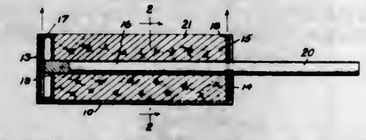
2,589,823

BAKED CONFECTION AND MOLD FOR SAME

Charles A. Krens, Staten Island, N. Y.

Application February 1, 1950, Serial No. 141,652

3 Claims. (Cl. 99—439)



2. A mold for baked confections which comprises a mold pan having bottom, end, and side walls, one end wall having a slot therein extending downwardly from the top edge thereof, a stick extending through said slot and projecting longitudinally into the mold pan, a pair of flange elements disposed in the mold pan closely adjacent the end walls, one of said flanges surrounding the stick adjacent the slot, the other of said flanges being in the form of a blank bent to form spaced paralleled walls, one of said walls having an aperture therein into which the end of the stick projects, both of said flanges adapted to prevent upward movement of the stick during the baking operation.

2,589,824

STEREOPLOTTING METHOD AND APPARATUS

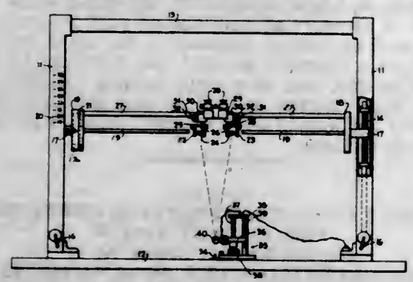
Gerard Kuipers, The Hague, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application May 24, 1948, Serial No. 28,927

In the Netherlands May 23, 1947

16 Claims. (Cl. 33—20)

(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



15. A slope measuring device for use with stereoplotting apparatus of the type in which a luminous measuring mark is projected against a pair of translucencies forming a stereo-pair having a screen, comprising a carriage adapted to be supported on a drawing table, a lamp mounted on said carriage for rotation about a horizontal axis, said lamp having a filament in the form of a straight line substantially perpendicular to said axis of rotation, and a scale for indicating the inclination of said filament.

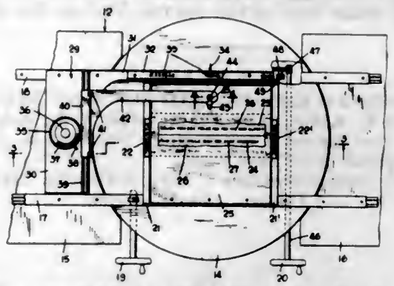
2,589,825

APPARATUS FOR FIXING RELATIVE POSITIONS OF MEMBERS PHOTOGRAPHED ON MOTION-PICTURE FILM

Seymour Kneitel, New York, N. Y., assignor, by mesne assignments, to Paramount Pictures Corporation, a corporation of New York

Application April 29, 1949, Serial No. 90,314

4 Claims. (Cl. 88—24)



1. In cameras of the class described, a copy holder bed, indexing means for adjustably guiding characterized cards over said bed, means for masking said cards, means adjustably supporting a member on said bed for movement relatively to characterizations on said cards in several directions over the full width of said cards vertically and horizontally with respect to said characterizations, said last named means comprising an arm, means including a scale guiding positioning of said arm longitudinally with respect to said characterizations, and other means for guiding adjustment of the arm vertically with respect to said characterizations.

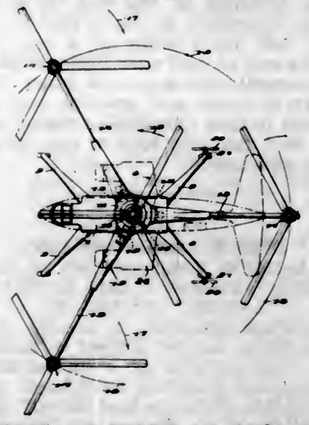
2,589,826

EPICYCLIC HELICOPTER ROTOR SYSTEM

Agnew E. Larsen, New Britain, Pa., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application May 26, 1949, Serial No. 95,543

7 Claims. (Cl. 170—135.2)



1. A helicopter comprising a body, a spider mounted on the body for free rotation about a generally vertical axis, said spider having a plurality of outwardly extending arms, lifting rotors carried by the outer ends of said arms for rotation about generally vertical axes, and means carried by said spider for driving said lifting rotors, said lifting rotors being driven in the same direction of rotation whereby said spider is caused to rotate in the opposite direction, an auxiliary lifting rotor rotatably mounted on said body coaxially with said spider, and means carried by and reacting against the body for driving said auxiliary lifting rotor in the opposite direction of rotation from said rotors carried by the spider, whereby the friction forces acting between the spider and the body will tend to oppose the reaction torque transmitted to said body by said drive means for the auxiliary lifting rotor.

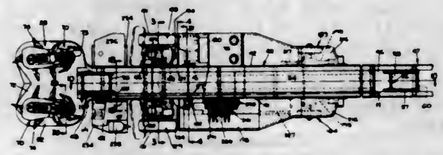
2,589,827

LOADING MACHINE

Arthur L. Lee, Columbus, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, a corporation of Ohio

Application April 10, 1944, Serial No. 530,361

15 Claims. (Cl. 198—8)



1. In a loading machine, the combination with a main frame, of an elongated substantially horizontal telescoping conveyor including endless traveling conveyor mechanism mounted thereon and extending substantially the full length of said machine, said conveyor having a gathering head at the front end carrying laterally spaced coal gathering means for gathering coal and delivering it to said conveyor and having a reciprocable head shaft carried by said gathering head, traction means for supporting said main frame, means for anchoring the rear discharge end of said conveyor while providing for its pivotal movement together with said traction means in a horizontal plane, and means for feeding said gathering head and said conveyor head shaft rectilinearly while said gathering means are in operation to gather coal by frontal attack while it is discharged at a selected fixed position at the rear end of said machine.

2,589,828

VALVE FACING APPARATUS

Alf Lervik, Oslo, Norway

Application December 23, 1947, Serial No. 793,355

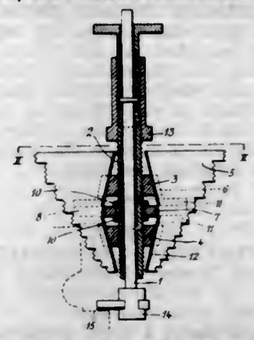
In Norway October 6, 1939

Section 1, Public Law 690, August 8, 1946

Patent expires October 6, 1959

1 Claim. (Cl. 90—12.5)

A valve facing apparatus comprising a spindle having a facing tool at one end thereof, a sleeve rotatably mounted on the spindle and having right and left hand thread sections on the peripheral surface thereof, a plurality of plates mounted around the sleeve in spaced radial relationship and each having a pair of cam surfaces on the inner side surface thereof and a series of stepped sections on the outer side surface, the cam surfaces being shaped as two faces inclined at an obtuse angle relative to each other, a pair of members each having a cam surface engaging one of the respective pairs of cam surfaces of the plates and an internal threaded surface engaging one of the sections of threads on the sleeve, and means for rotating the sleeve



to adjust the members toward or away from each other to move the plates radially by the cam surfaces for adjustment in the valve to be worked.

2,589,829

EARTH COMPACTING ROLLER IMPLEMENT

Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Stockton, Calif., a corporation of California

Application October 5, 1948, Serial No. 52,887

3 Claims. (Cl. 55—47)



1. In an earth compacting roller implement, a pair of roller frames in adjacent side by side relation transversely of the direction of travel, inner side beams included in said frames, such side beams being alined and vertically spaced, longitudinally spaced hinges connected directly between said side beams, and a weight box connected to the outer face of and extending laterally out from each side beam; said boxes being end alined, and the adjacent box ends inclining upwardly and outwardly and downwardly and outwardly, from the lower an upper side beams, respectively; said side beams being longitudinally chamfered on a slope corresponding to but opposite that of the box ends along the faces opposite those to which the boxes are secured.

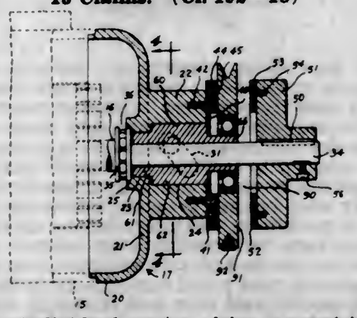
2,589,830

CLUTCH AND BRAKE FOR MOTOR DRIVES

William H. Lewin, New York, N. Y.

Application June 25, 1946, Serial No. 679,209

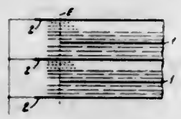
13 Claims. (Cl. 192—18)



1. An individual motor drive comprising an electric motor having a hub at one end, a brake

on the outer end of said hub, said motor having an armature shaft passing through the hub, a fly wheel on said shaft and beyond the hub, a manually controlled shiftable sleeve within the hub and on said shaft, a pulley rotatably and non-slidably mounted on said sleeve and shiftable therewith, said pulley being located between said brake and said fly wheel, and means to shift said sleeve in one direction into contact with the brake to brake the pulley, and in an opposite direction to engage the pulley with the fly wheel for rotation therewith.

2,589,831
ELECTRICAL CONDENSER
Albert Liechti, Zurich, Switzerland, assignor to Micafil A. G., Zurich-Altstetten, Switzerland, a corporation of Switzerland
Application March 5, 1949, Serial No. 79,817
In Switzerland March 6, 1948
4 Claims. (Cl. 175—41)



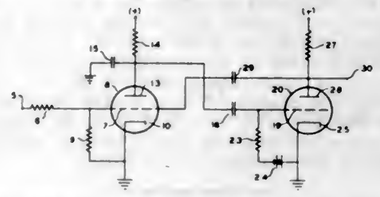
1. In an electrical condenser comprising alternatingly spatially superimposed electrically conductive sheets of opposite polarity and having lateral edges, and a dielectric placed between said sheets; electrically conductive sheets of the same polarity neighboring a conductive sheet of the opposite polarity and having an edge placed inside the edge of at least one of the sheets neighboring it, the dielectrics being individually built up of a pluraltiy of insulating sheets, and strips of insulating material interposed between the insulating sheets on one side of the sheet of opposite polarity and adjacent to the lateral edges thereof for making the dielectric thereat thicker than on the other side of the sheet for producing electrical asymmetry of the neighboring sheets with respect to the sheet of opposite polarity.

2,589,832
HAIR CURLER
Delia D. Loewenstein, Kearney, Nebr.
Application September 14, 1949, Serial No. 115,700
3 Claims. (Cl. 132—40)



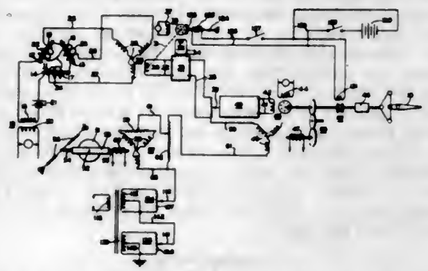
1. A hair curler comprising a member having a concave surface and having a notch extending inward from its periphery, a column fixed to said member and projecting from said concave surface, a sleeve rotatably mounted on said column, a disc secured to said sleeve adjacent said member, said disc having a concave surface facing said member and having a notch extending inward from its periphery, said sleeve having an enlarged internal bore surrounding said column, a projection on the end of said column remote from said member, and a coil spring surrounding said column within said bore and engaging said projection and said sleeve for urging said disc toward said member.

2,589,833
PULSE DISCRIMINATOR CIRCUIT
Conrad L. Longmire, Boston, and Israel H. Sudman, Cambridge, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application May 3, 1945, Serial No. 591,746
5 Claims. (Cl. 250—27)



2. An electronic pulse selector circuit comprising means for accepting input pulses having differing intervals of time duration, integration means for producing potentials which vary substantially linearly in amplitude from an initial value with the time duration of each of said pulses, an normally blocked pulse forming means energized by said potentials when they exceed said initial value by a predetermined amount, a regenerative circuit coupling said pulse forming circuit to said integrating means, and means in said regenerative circuit for prolonging the operation of said integrating circuit for a given interval after each of said first input pulses has ceased.

2,589,834
AUTOMATIC STEERING SYSTEM
Alan M. MacCallum, Maywood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application January 31, 1946, Serial No. 644,642
13 Claims. (Cl. 318—489)



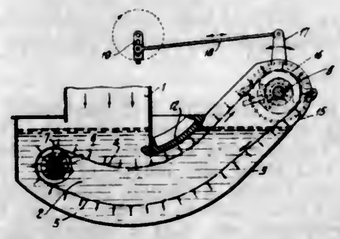
1. In an automatic steering system for an aircraft having a rudder surface and driving means for operating the rudder surface, the combination of an inductive device having a multi-polar stator winding and a rotor winding, an actuating device connected to said rotor winding for driving the latter relative to said stator winding, a source of current, direction responsive means including an induction device comprising a core of permeable magnetic material adapted to receive a magnetic flux from a unidirectional magnetic field, a multi-polar stator winding on said core, a single phase winding on said core connected for energization by said source of current, means for interconnecting the multi-polar winding of said core to the multi-polar winding of said inductive device whereby a signal proportional to a relative angular displacement of said direction responsive means in azimuth is developed within said rotor winding, means connecting the rudder driving means with said rotor winding, means electrically connecting said rotor winding to said actuating device for energizing the latter to drive said rotor winding to a null position at which time no signal is available for the rudder driving means, and means for braking said actuating device against operation whereby the signal developed within said rotor winding is communicated to the rudder driving means.

2,589,835
SANITARY DISPENSER FOR FOOD BOXES
Joseph H. Malachick, New York, N. Y.
Application June 23, 1947, Serial No. 756,414
1 Claim. (Cl. 222—364)



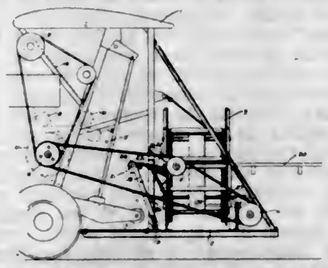
A sanitary dispenser for a food box, comprising interfitted corner-shaped inner and outer walls for insertion downwardly over the respective inner and outer faces of the corner walls of the box, a narrow top plate extended between the top edges of said walls inward of the apex of said walls leaving a pouring opening between the apex of said walls and the outer edge of said plate, a cover hingedly connected to the outer edge of said top plate and rested on the top edges of said walls to close said pouring opening, said inner wall being rounded inwardly and downwardly to provide a measuring chamber within the box, the box having an opening in the top between said corner and said narrow top plate, said opening constituting an entrance to the measuring chamber, said top plate having its outer edge at the inner edge of said box opening, an extension depended from the hinged edge of said cover into said box at a point spaced slightly from the entrance to said chamber to move with said cover, when the cover is pivoted to open said pouring opening, into said chamber to prevent the flow of the contents of the box through the measuring chamber while the contents of the measuring chamber are being emptied, and a projection on the inner wall adjacent the top edge thereof for engagement by the free edge of said extension to limit outward movement of said extension as the measured quantity contents of said chamber are being dispensed.

2,589,836
ASH REMOVAL DEVICE
Josef Martin, Munich, Germany
Application September 28, 1949, Serial No. 118,415
In Germany October 1, 1948
5 Claims. (Cl. 110—165)



1. A conveyor device for fine-grained ash, comprising a container containing water, means connected with said container for dropping ash into the water therein, two shaft means rotatably connected with said container; a plurality of parallel endless chains carried by and forming sagging loops between said shaft means and having concave upper and convex lower portions, a part of said portions being immersed in the water in the container; said container having a bottom curved substantially parallel to said convex lower portions; and transverse bars of angular cross-sections connected with said chains; each bar having a substantially flat longitudinal portion disposed parallel to the chains at least at the concave portions thereof and being unconnected with and adjacent to the longitudinal portions of the neighboring bars to form a substantially continuous conveyor surface, when travelling on the upper, concave portion of the loop path for receiving and retaining the ash sinking in the water; each bar having a portion disposed at an angle with respect to said flat portion, disposed transversely to the travel direction of said chains, and projecting outward with respect to said loops to form with the flat portion and the outwardly projecting portion of an adjacent bar an ash-retaining trough when travelling on the upper portion of the loop path, said portions disposed at an angle having longitudinal edges disposed adjacent to said curved bottom when travelling on the lower, convex portion of the loop for carrying along ash accumulated at the bottom of said container.

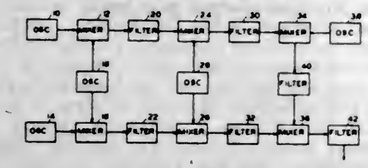
2,589,837
BALE CONVEYER FOR ROTARY BALER
Francis J. McAlpine and Melvin L. McAlpine, Rowan, and R. E. Lee Aldrich, Jr., Belmond, Iowa
Application May 11, 1949, Serial No. 92,562
2 Claims. (Cl. 100—16)



1. A bale conveyor for use with an elevator mechanism in conjunction with a rotary baler of the type wherein the material to be baled is rolled between two sets of vertically spaced belts that are moving in opposite directions over rollers; and which rollers are moveable to permit the bale to grow in size as the machine operates; and the rearward portion of the path taken by the lower set of belts moves forwardly and downwardly to permit normal formation of the bale until the completed bale is finally ejected toward the rear of the baler; said bale conveyor comprising; a frame hingedly secured at its lower end to the rear end of said baler, a friction reducing means secured near the upper end of said frame, a bale guide platform member hingedly secured near the top of said frame and capable of overlapping a portion of an elevator mechanism used in conjunction with said baler; said bale guide platform member tending to depend from its point of hinged attachment under the force of gravity; and said bale guide platform member being prevented from depending substantially straight downwardly solely by its engagement with a portion of an elevator, and a

means secured to said frame for yieldingly urging said friction reducing means into contact with the lower set of belts of said baler.

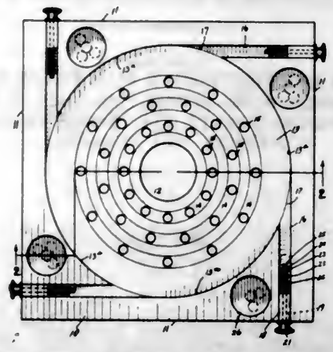
2,589,838
SINGLE SIDE BAND MODULATOR
Robert A. McConnell, Pittsburgh, Pa., assignor, by mesne assignments, to United States of America as represented by the Secretary of War
Application June 21, 1946, Serial No. 678,222
5 Claims. (Cl. 343—9)



2. In a moving target indication radio object locating system, having provisions, including a coherent reference signal of wave length λ, for providing cancellation of indications from targets having a velocity, V, relative to said radio object locating system, apparatus for altering the frequency of said coherent reference signal by an amount $F=2V/(\lambda)$, said apparatus comprising a first and a second signal source respectively providing first and second audio frequency signals differing in frequency by said amount F, a third signal source providing said coherent reference signal, a plurality of signal sources providing a first series of signals differing in frequency and adapted to divide the frequency range between the frequency of the said first audio frequency signal and the frequency of said coherent reference signal into substantially equal increments, means providing a second series of signals, the first signal of said second series differing in frequency from the first signal in said first series by an amount equal to the frequency of said first audio frequency signal, each succeeding signal in said second series differing in frequency from the preceding signal by an amount equal to the frequency of the corresponding signal in said first series, means providing a fourth signal differing in frequency from said coherent reference signal by an amount equal to the frequency of the last signal in said second series, means providing a third series of signals, the first signal of said third series differing in frequency from the first signal in said first series by an amount equal to the frequency of said second audio frequency signal, each succeeding signal in said third series differing in frequency from the preceding signal by an amount equal to the frequency of the corresponding signal in said first series, and means providing a fifth signal differing in frequency from said fourth signal by an amount equal to the frequency of the last signal in said third series whereby said fifth signal differs in frequency from said coherent reference signal by said amount F.

2,589,839
MULTIPLE STATION GAME BOARD
Joe W. McFerran, Detroit, Mich.
Application December 31, 1949, Serial No. 136,379
1 Claim. (Cl. 273—121)

A ball game board comprising a base of appreciable thickness and regular polygon outline, the upper face of said base having a centrally located inwardly inclined and circular playing surface centrally terminating in a spent ball well, said well extending through said base, said playing surface being defined by an annular wall, at least two series of annularly spaced playing ball seats, the seats of each series being concentric to each other and being formed through said base in parallel relation to each other and to said well, a plurality of ball projecting devices

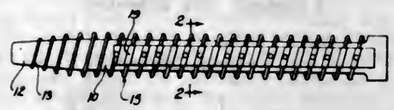


disposed in spaced relation about the periphery of said board, and a plurality of ball discharging channels communicating with said playing surface and being substantially tangential to said annular wall, said ball projecting devices being longitudinally disposed in said respective channels.

2,589,840
METHOD OF PREPARING CHOLINE SALTS OF BILE ACIDS
Arthur E. Meyer, Flushing, N. Y., assignor to Fellows Medical Manufacturing Co., Inc., New York, N. Y.
No Drawing. Application August 14, 1948, Serial No. 44,393
4 Claims. (Cl. 260—397.1)

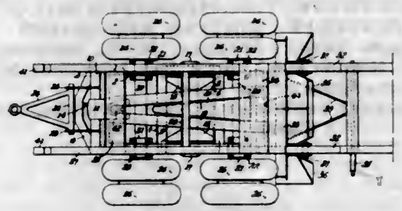
1. A process of preparing salts of choline with bile acids by interaction of alkali metal salts of said acids dissolved in a low chain alcohol with a soluble choline salt and separating the choline-bile-acid salt formed from the alkali metal salt by precipitating with a solvent, miscible with alcohol, in which the choline-bile-acid salt is not soluble, selected from the group consisting of ethyl ether, acetone and ethyl acetate.

2,589,841
CORN SNAPPING ROLL CONSTRUCTION
Delbert M. Miller, Davenport, Iowa, assignor to International Harvester Company, a corporation of New Jersey
Application September 23, 1948, Serial No. 50,709
5 Claims. (Cl. 130—5)



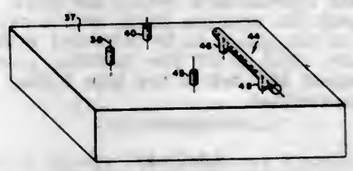
3. In a corn snapping roll comprising a substantially cylindrical core, an intermittent rib fixed to and forming a substantially spiral path around and along the length of the roll, said ribbed core having a regular rectangular radial slot in the outer surface thereof formed through the intermittent rib, and a rectangular insert of yieldable material adapted to fit within the rectangular slot, means for holding said insert within said slot, said insert formed with longitudinal spaced ribs in alignment with the intermittent rib on the roll core forming a continuous spiral rib over the length of the roll.

2,589,842
TRANSPORTATION ASSEMBLY
Carl E. Mittell, Sumter, S. C., assignor, by direct and mesne assignments, of one-half to John Evans Manufacturing Company, Inc., a corporation of South Carolina, and one-half to Tom N. Busch, Mobile, Ala.
Application April 24, 1950, Serial No. 157,766
3 Claims. (Cl. 280—29)



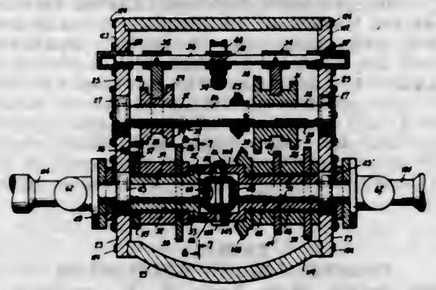
1. In transportation assemblies including a crib unit and a mobile unit detachably coupled to the crib at its rear end, the improvement which comprises a single female coupling element on the mobile unit and a single male coupling element on the rear end of the crib, and means to restrain the mobile unit from swiveling on said last named male coupling element, said means comprising a female wedge on one of the two coupled units and a male wedge on the other of said units for engaging each other when the male and female coupling elements are operatively connected.

2,589,843
ULTRAHIGH-FREQUENCY MIXING CIRCUITS
Carol G. Montgomery, Belmont, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 3, 1946, Serial No. 638,886
5 Claims. (Cl. 250—20)



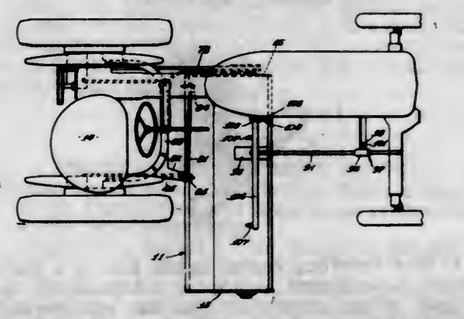
1. In a receiver of the superheterodyne type, a mixing circuit for combining a received radio frequency signal with a local oscillator radio frequency signal to provide an intermediate frequency signal, said mixing circuit comprising a rectangular wave guide, means positioned in said wave guide for exciting said wave guide in the $TE_{0,1}$ mode with the received signal, means positioned in said wave guide for exciting said wave guide in the $TE_{0,2}$ mode with the local oscillator signal, first and second detector means so positioned in said wave guide as to be excited in phase by said received signal and in 180 degree phase opposition by said local oscillator signal and means for combining the output of said first and second detector means to provide an intermediate frequency signal.

2,589,844
CHANGE-SPEED GEARING MULTIPLE DRIVE TRANSMISSION
Irving Moore, Scotch Plains, N. J.
Application April 23, 1948, Serial No. 22,834
1 Claim. (Cl. 180—49)



A vehicle having in combination front and rear wheels, a motor, clutch and transmission housing mounted with its central axis transverse to the central axis of the vehicle motor, a driving shaft mounted in said housing having its axis transverse to the said motor axis, a differential mechanism mounted in said housing parallel to and below said driving shaft, said differential having an elongated spider casing, a bevelled gear fixedly mounted on said casing, change speed driven gears fixedly mounted on said casing, change speed drive gears slidably carried by said drive shaft and adapted to mesh with said driven gears, means including a clutch for connecting the motor to said transmission drive shaft, auxiliary power units including means adapted to drive the front and rear vehicle wheels, connecting means for establishing a drive connection between said bevelled gear and said power units including a stub shaft mounted on bearings in said housing and carrying a bevel gear engaging said first mentioned bevel gear, a clutch member on the end of said stub shaft, a second stub shaft mounted in said housing and having a complementary clutch member adapted to engage the other clutch member and means supported by said housing and adapted to engage and disengage said stub shaft clutch.

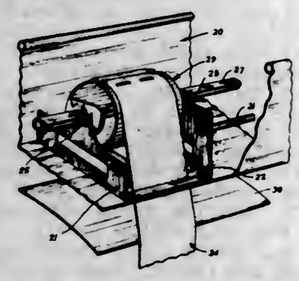
2,589,845
HAMMER KNIFE MOWER
Carl W. Mott, La Grange, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application August 16, 1947, Serial No. 768,992
7 Claims. (Cl. 56—25)



1. Mounting means for mounting an elongated mower unit transversely of and beneath a tractor body whereon there is lifting means; said mounting means comprising thrust members pivotally

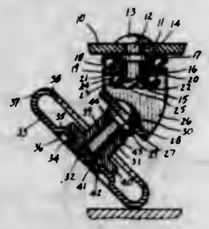
connectable with laterally-spaced rearward portions of the tractor for forward projection and pivotally connected at respective forward portions thereof with portions of the mower unit spaced lengthwise thereof to accommodate independent vertical movement of the ends of the unit while preventing movement thereof fore and aft of the tractor, a link member pivotally connected with such unit to project lengthwise thereof for pivotal connection with a portion of said tractor to curtail endwise movement of such unit while accommodating up and down motion thereof, and means connected with said unit for supporting the same from said lifting means while accommodating upward movement of the unit independently of force from such lifting means.

2,589,846
VENETIAN BLIND MECHANISM
Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application September 3, 1947, Serial No. 771,981
12 Claims. (Cl. 160—177)



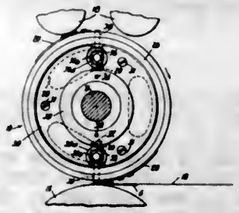
1. In a Venetian blind, the combination of a ladder tape having an individually looped tape branch end and a sheet metal fitting having a T-shaped slot therein extending out to one of the marginal edges and defining a pair of slightly spaced opposing aligned fingers of unequal length, the total length of the fingers approximating the width of the ladder tape branch, and the fingers receiving the looped tape branch end thereabout.

2,589,847
CASTER
William H. Noelting and John A. Skupas, Evansville, Ind., assignors to Faultless Caster Corporation, Evansville, Ind., a corporation
Application June 23, 1949, Serial No. 100,838
2 Claims. (Cl. 16—21)



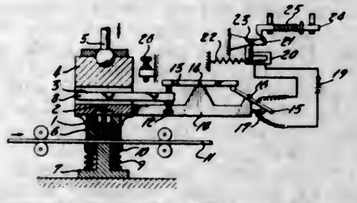
1. In a swiveling canted caster having a horizontal attachment plate; a substantially Z-shaped strap comprising one flat end portion substantially parallel to said plate and a second flat end portion integral with said first portion and being inclined relative thereto in offset relation therefrom at an angle of approximately 45 degrees, vertically disposed means rotatably connecting said first portion to said plate, an axle rigidly connected to said second portion at approximately right angles thereto, an elongated hub rotatably mounted on said axle and being substantially coextensive therewith, said hub having a peripheral groove adjacent its lower end, and a caster wheel mounted on said hub and comprising a disc having a curved periphery and a centrally apertured indented portion, the marginal edges defining said aperture being engaged within said groove.

2,589,848
BLUR PREVENTING MEANS FOR ROTARY ENVELOPE PRINTING MECHANISM
Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co. Inc., New York, N. Y., a corporation of New York
Application September 22, 1948, Serial No. 50,525
3 Claims. (Cl. 101—232)



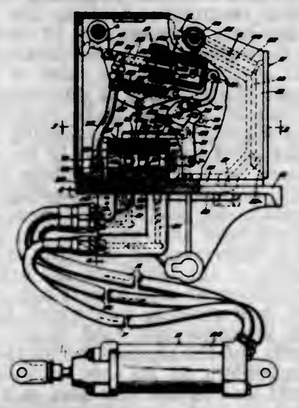
1. In a continuous rotary printing mechanism, in combination, a type carrying printing cylinder, an impression cylinder opposed thereto, type inking means disposed tangent to the cylindrical type face path, a work conveyor for carrying the work between and tangent to said cylinders at the circumferential speed of the cylinders, the printing cylinder having a plurality of successive printing areas, guard spacers carried within the printing cylinder, each just in advance of one of the printing areas, and each comprising work engaging fingers that extend through the periphery of the cylinder, means guiding each guard spacer for radial movement, and a single stationary eccentric cam cooperative with each guard to cause the fingers of the guard to be moved outward as far as the type face path substantially before the travel of the guard past the printing point, and to cause the fingers of the guard to be retracted within the type face path after the printing point has been passed and before the type inking means has been reached.

2,589,849
PUNCHING MACHINE
Hans Oetiker, Horgen, Switzerland
Application August 17, 1948, Serial No. 44,739
In Switzerland August 18, 1947
2 Claims. (Cl. 164—105)



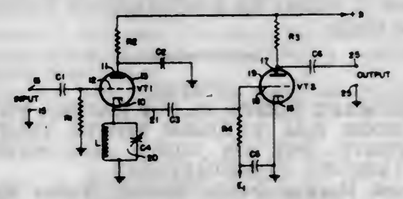
1. A punching machine for punching substantially flat work pieces from strip-like work material, comprising means for continuously feeding the work material into the machine, a stationary puncher, a reciprocatingly movable punching hammer having a cavity receiving said puncher, piston means slidable in said cavity and displaceable by the punched work pieces resting on said puncher, a lever pivoted to said reciprocatingly movable punching hammer, a stationary abutment placed in the path of said lever to be abutted by said lever when said punching hammer approaches the end of its idle stroke, said lever being swingable in a plane containing the longitudinal axis of said piston means and abutting against the latter upon abutment of said lever against said stationary abutment and tending to push said piston means out of said cavity during the rest of the idle stroke of said punching hammer to effect the ejection of a punched-out piece, an electric switch mounted on said punching hammer to move therewith and positioned relative to said lever to be actuated thereby upon abutment of said piston means against said lever upon improper displacement, due to the failure of a punched-out piece to be ejected by the action of the stationary abutment, of said piston in said cavity, and stop means for stopping the punching machine connected with and controlled by said switch.

2,589,850
CONTROL VALVE FOR TELEMOTOR TYPE HYDRAULIC POWER LIFT
John R. Orelind, Wilmette, and Carl W. Mott, La Grange, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application February 14, 1947, Serial No. 728,408
13 Claims. (Cl. 121—41)



1. In a control for a two-way hydraulic ram having a cylinder and a piston, a source of pressure fluid for the operation of said ram, a control valve from which said ram is remotely disposed, said valve having communicative connections with the source and with the ram and being settable in opposite directions from a neutral to establish said communicative connections for operation of the ram in respectively opposite directions, a hydraulic assemblage connected with the valve and manually operable in opposite directions for selective setting of the same, the assemblage being hydraulically operable in either of opposite directions for returning the valve toward neutral according to whether fluid is received by or expelled from such assemblage, a hydraulic pulsator including intercommunicative expansible and contractible chambers of which one is incorporated into said assemblage as a hydraulic receiver and operator thereof, the other of such chambers being associated with said ram in a manner to be expanded or contracted thereby, said ram-associated chamber being contracted by the ram to pump fluid from such chamber into the assemblage-incorporated chamber as the ram piston approaches a limit toward one end of the cylinder and to accommodate fluid expelled from the assemblage pursuant to reverse movement of the piston, said valve being returned toward neutral by operation of the assemblage while receiving fluid and stopping short of reaching neutral should there be a deficiency of fluid in the pulsator wherefore the piston continues to said limit, and means including a by-pass valve operable substantially coincident with the piston reaching said limit to establish communication between the source and said pulsator to increase the quantity of fluid therein by the amount of such deficiency.

2,589,851
PULSE LENGTH DISCRIMINATOR
Lionel H. Orpin, Greece, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application January 3, 1946, Serial No. 638,890
9 Claims. (Cl. 250—27)

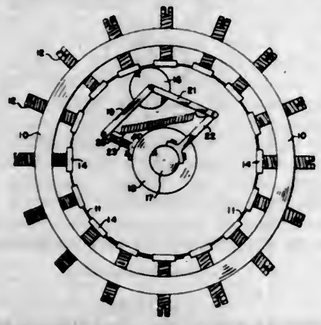


1. A circuit comprising a vacuum tube having a cathode, an anode, and a control grid interposed in the path between said cathode and anode, an input circuit for applying an input pulse to said cathode and grid, an output circuit comprising said cathode and anode, said output circuit including a resonant circuit for producing shock-excited oscillations in response to the application of said input pulse, a utilization means including a second vacuum tube having a cathode, an anode, and a control grid interposed in the path between said cathode and anode, means to bias the grid of said second vacuum tube negative with respect to its cathode beyond cathode-anode current cutoff, and means for applying said shock-excited oscillations to the grid and cathode of said second tube in such phase that the initial half-cycle of said oscillations renders the grid of said second tube more negative with respect to the cathode thereof, the amplitude of the first cycle of said oscillations being sufficient to render said second tube conducting during the second half-cycle of said oscillations.

2,589,852
MECHANICAL TRACKING DEVICE
Horace E. Overacker, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War
Application August 8, 1945, Serial No. 609,649
1 Claim. (Cl. 74—63)

A device for producing variations in the relative angular motion of two concentric shafts, comprising a circular framework, a flat normally circular cam substantially uniformly flexible throughout its entire perimeter, means for deforming and supporting said cam, said means

comprising a series of adjustment screws circularly arranged in threaded engagement with said framework, and a series of lugs respectively freely rotatable about each of said screws, each of said lugs having flanges at the extremities thereof so as to form the boundaries of a groove for engaging a portion of said cam, said flanges extending beyond said cam, whereby rotation of said screws effects smooth, continuous deformation of said cam, a follower travelling on said cam within the grooves of said lugs, and mechanical linkage between said follower and said shafts whereby any deformation of said cam is translated to change the relative angular positions of said shafts.

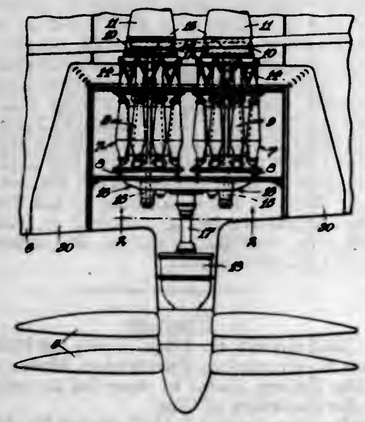


2,589,853

AIRCRAFT POWER PLANT HAVING TWO OR MORE GAS TURBINE POWER UNITS TO DRIVE ONE OR MORE AIRSCREWS IN VARIOUS COMBINATIONS

Frank Morgan Owner, Stanley Walter Mansell, and Francis Charles Ivor Marchant, Bristol, England, assignors to The Bristol Aeroplane Company Limited, Bristol, England, a British company

Application March 21, 1947, Serial No. 736,220
In Great Britain March 12, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 12, 1966
3 Claims. (Cl. 60—39.21)



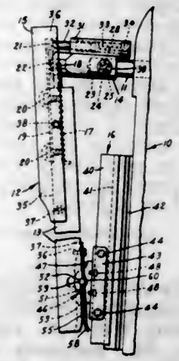
1. A gas turbine power plant comprising a plurality of power units each having a compressor, a turbine rotor to drive the compressor, a power shaft mounted for rotation independently of the compressor turbine rotor, and independently rotating turbine rotor to drive said power shaft, combustion equipment supplied with air from the compressor and delivering combustion gases successively to the turbine rotors, a driving shaft common to the power rotors of the turbines and driven thereby, a clutch to connect each power shaft with the common driving shaft and means for actuating each clutch independently.

2,589,854

WINDSHIELD WIPER

Walter P. Ozarowski, Devon, Conn.

Original application May 18, 1948, Serial No. 27,802. Divided and this application April 27, 1949, Serial No. 89,901
7 Claims. (Cl. 15—255)



1. In a windshield wiper, a blade driving arm, said arm having a channel opening through one side and an end thereof, a pair of spring fingers fastened to said arm and extending one at each side of said channel and along the land portions of the arm at each side of said channel, said arm having aligned recess portions through said lands at the respective sides of the channel, a wiper blade having a flat-sided block on its outer side of a width to be received in said channel, a journal element extending from each side of said block and adapted to be received in said recesses, and said wiper blade adapted to be mounted on said arm by inserting said journal elements under said spring fingers and aligning the block with said channel and then causing relative movement of the arm and wiper in the direction of the length of the arm to carry said elements under said fingers and into alignment with said recesses whereupon said fingers press said elements into said recesses whereby the elements and the recesses mount the blade for rocking movement on an axis transverse to the longitudinal axis of the arm and said block being located in said channel prevents substantial relative lateral movement between the blade and arm.

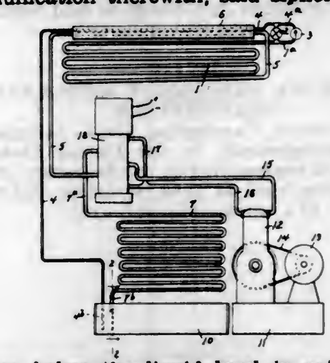
2,589,855

LOW-TEMPERATURE DEFROSTING SYSTEM

Richard E. Pabst, San Antonio, Tex.

Application December 12, 1949, Serial No. 132,429
3 Claims. (Cl. 62—115)

3. In a refrigerating system, an evaporator, a condenser, a compressor, and a receiver, operatively connected in circuit with a reversing means for reversing the flow of refrigerant in the evaporator and condenser, a pipe leading from said evaporator and extending into said receiver below the liquid level in the receiver, a second pipe connected to said condenser and extending into said receiver and having its end terminating above the liquid level in the receiver, and a siphon tube connected to said second pipe and having communication therewith, said siphon tube extending below the liquid level in said receiver and controlling gas pressure and liquid flow from said receiver to said condenser.

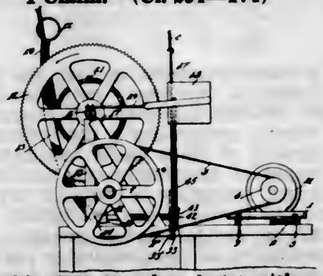


2,589,856

HAY HOIST

August Pehrson, Ferndale, Wash.

Application November 15, 1946, Serial No. 710,197
1 Claim. (Cl. 254—174)



The combination in a hay hoist with a driving wheel having a friction plate on one side thereof, an electric motor, power transmission mechanism between the motor and the wheel, a longitudinally shiftable rotary drum having a complementary friction head that is adapted for engagement with the friction plate on said driving wheel, said engagement causing said drum to be driven when the driving wheel is in motion and said engagement causing the drum to be braked when the driving wheel is not in motion, a cable on the drum, a cable control lever having an eye through which the cable passes, and a pivoted weighted arm coacting with the cable control lever of a pivoted drum shifting lever coacting with the drum, a pivoted clutch control bar linked with the drum shifting lever, and having a weighted end, a pull rod connected with the weighted end of the control bar, means coacting with the weighted arm cable control lever and the clutch control bar for applying a braking action to the drum when the cable and the cable lever are released, a control switch for the motor, an operative connection between said pull rod and said switch so that the operation of said pull rod will control the switch for the energizing of the motor and the subsequent operation of said drum.

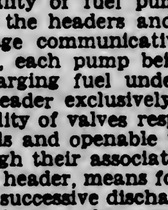
2,589,857

COMBINATION FAUCET

Frank Pena, Brooklyn, N. Y.

Application November 20, 1947, Serial No. 787,118
5 Claims. (Cl. 277—11)

1. A faucet construction comprising a housing having an internal chamber with hot and cold water intake ports, a plunger valve for controlling discharge from the chamber, a cylindrical rotary valve controlling flow from the intake ports into the chamber, a ring swivelled on the housing, bearing arms rigid with the ring, a handle rod mounted to turn on the bearing arms and capable of turning the swivel ring, a yoke engaged by the handle rod, a rack on the yoke, and a gear pinion on the handle rod engaging the rack, said plunger valve being connected with said yoke and keyed to turn the cylindrical rotary valve, whereby either valve may be operated from the handle and both valves may be simultaneously operated.

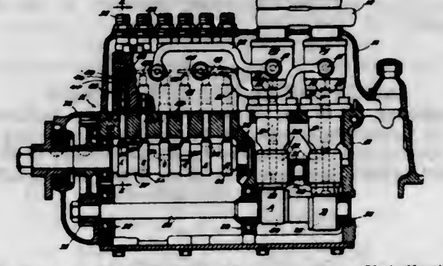


2,589,858

MULTIPLE-PLUNGER FUEL INJECTION PUMP UNIT

Raymond E. Peterson, Riverside, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application November 7, 1946, Serial No. 708,259
5 Claims. (Cl. 103—2)



1. In a unit fuel injection pump, a distributor manifold having a plurality of headers and a plurality of discharge laterals leading from each header, a plurality of fuel pumps respectively associated with the headers and each having a discharge passage communicative with its associated header, each pump being operable for cyclically discharging fuel under pressure into its associated header exclusively of the laterals thereof, a plurality of valves respectively for the manifold laterals and openable to accommodate discharge through their associated laterals from their associated header, means for operating said pumps to cause successive discharge thereby into the headers, and means for sequentially opening said valves coordinately with the operation of said pumps so the opening period of each valve is accompanied by a respective discharge of the pump for the associated header.

2,589,859

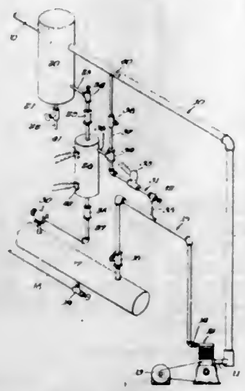
SUCTION LINE LIQUID RETURN TRAP

Harry A. Phillips, Chicago, Ill.

Application November 12, 1948, Serial No. 59,693
5 Claims. (Cl. 62—3)

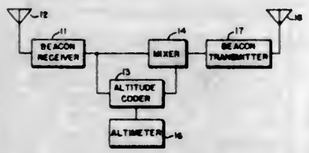
1. In a refrigerating system including the conventional compressor having a suction line for

returning evaporated refrigerant to the compressor and having a high pressure gaseous refrigerant line connecting with a receiver, the combination of an accumulator drum interposed in the suction line for collecting liquid refrigerant to prevent delivery of the same to the compressor, conduit means providing a passageway connecting the drum with the receiver for conveying said



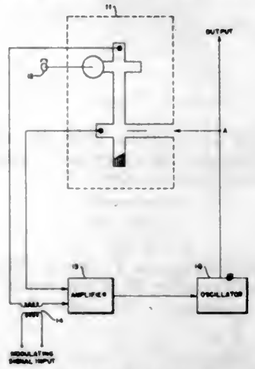
liquid refrigerant from the drum to the receiver, a trap included in said conduit means, ejector means utilizing the high pressure gaseous refrigerant for pumping the liquid refrigerant from the accumulator drum to the trap, and other means also utilizing the high pressure refrigerant gas by supplying the same to the trap to effect a flow of the liquid refrigerant under pressure to the receiver.

2,589,860
ALTITUDE INDICATOR SYSTEM
Beuhring W. Pike, Watertown, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,080
1 Claim. (Cl. 343—5)



An airborne radio responder beacon, including: receiving means receptive of at least one interrogating pulse of radio frequency energy; means for determining the altitude of said airborne beacon; multivibrator means having its input connected to the output of said receiving means, said multivibrator means producing a square wave whenever an energy pulse is coupled to its input; means for differentiating the output of said multivibrator means to produce a delayed output pulse synchronous with the trailing edge of said square wave; transmitting means, having its input coupled to the outputs of both said receiving means and said differentiating means, for transmitting both said interrogating pulse and said delayed pulse; and means coupled between said altitude determining means and said multivibrator means, for varying the duration of said square wave in response to the variations in altitude of said airborne beacon, thereby varying the time difference between the transmitted interrogating and delayed pulses in accordance with said variations in altitude of said beacon.

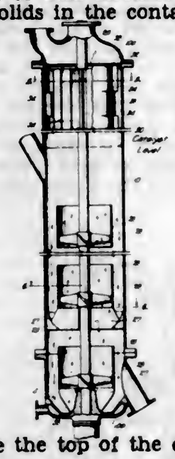
2,589,861
MICROWAVE FREQUENCY MODULATED TRANSMITTER
Robert V. Pound, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application April 30, 1946, Serial No. 665,995
14 Claims. (Cl. 332—19)



1. In a communication system, the combination including a microwave oscillator having a frequency-determining element, frequency-stabilizing means comprising a discriminator having a plurality of wave guide branches coupled to the output of said microwave oscillator, said discriminator including a tunable cavity resonator coupled to one of said waveguide branches and rectifying crystal diodes spacially arranged in said branches and responsive to variations in the average voltage levels in said branches for producing an output voltage indicative of a frequency difference between the output frequency of said microwave oscillator and the resonant frequency of said tunable cavity resonator, an amplifier means interconnecting said crystal diodes and said frequency-determining element for amplifying modulation signals ranging in frequency from zero through the audio range and for impressing said signals on said frequency-determining element, and means for applying modulation signals to said amplifier means.

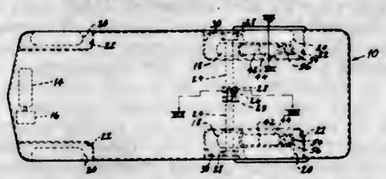
2,589,862
METHOD AND APPARATUS FOR CONTACTING GASES AND PULVERIZED SOLIDS
David H. Putney, Kansas City, Mo., assignor to Stratford Engineering Corporation, Kansas City, Mo., a corporation of Delaware
Application December 22, 1945, Serial No. 636,756
7 Claims. (Cl. 23—1)

1. A method of contacting gaseous materials with pulverized solids in a contacting zone which comprises passing the mixture of gases and solids upwardly in a stream located centrally of said zone, said solids entrained in the upwardly flowing gases, cascading the solids outwardly and reversing their flow while separating the gases therefrom, said solids caused thence to pass in an annular stream surrounding the upflowing stream, passing solids from the bottom of the annular stream to the bottom of the central upflowing stream and from the annular stream to the central stream at intervals intermediate the top and bottom of said streams and maintaining a level of solids in the contacting zone im-



mediately above the top of the central and annular streams.

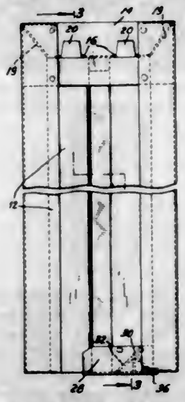
2,589,863
GASOLINE-ELECTRIC DRIVE FOR VEHICLES
Orpheus F. Quartullo, Cleveland, Ohio
Application December 6, 1946, Serial No. 714,398
3 Claims. (Cl. 180—65)



2. In combination in a vehicle, a pair of wheels, a short stub axle for each wheel to which the wheel is removably secured, a casing journaling each of the axles, a torque tube rigidly secured to each of the casings and extending substantially at right angles to the axle, a motor having a housing rigidly secured to the other end of each of the tubes, a shaft connected to the rotary part of each motor and extending through its tube into the casing secured thereto, gearing in each casing and connecting the shaft to the axle therein, a pair of members positioned substantially laterally and horizontally of the vehicle in laterally spaced but aligned relation, rubber torsion bushings securing the members to the vehicle, means securing the motor housing individually to the different members, and means connected between the adjacent ends of said members to maintain same in alignment but to permit individual arcuate movement of same.

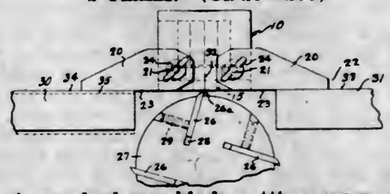
2,589,864
DOORFRAME
Joseph Raskin, Brooklyn, N. Y.
Application May 29, 1948, Serial No. 30,119
1 Claim. (Cl. 189—46)

A prefabricated aperture frame of sheet metal assembled without the aid of special tools, including in combination, a lintel, including a top wall, side walls and a lower wall including a door stop formed with square ends and tabs projecting longitudinally from the ends, and further formed with slots in its lower wall adapted to receive tabs, two side members, each formed with mutually facing walls including door stops, a front side wall, a rear side wall and a back wall, the facing walls and door stop at the top terminating short of the top of the side walls, the ends of the lintel lying between the front and rear side walls of the members, said facing walls formed with tabs at their upper ends lying in the slots of the lower wall of the lintel, plates, one positioned between the front side wall and the rear side wall of each



of the members and attached to the back walls thereof, said plate formed with slots in which lie the tabs of the lintel, all of said tabs being bent over against adjacent surfaces whereby the lintel and the side members may be shipped disassembled and assembled at the place of use, and means for retaining the lower ends of the side members in spaced relation.

2,589,865
WOOD PLANER BLADE SETTING GAUGE
Nelson J. Rivard, Milford, Conn.
Application February 27, 1948, Serial No. 11,562
2 Claims. (Cl. 29—200)

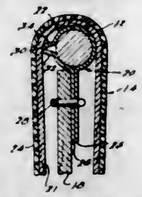


2. A wood planer blade setting gauge of the character described comprising an inverted U-shaped member including spaced side legs, a face plate extending between the free ends of the legs of said member, a strong magnet mounted in said member with a pole located in the plate the face of which is a substantially flat surface at substantially the face of the plate, the face of the plate being substantially flat and constituting a gauging surface, a pair of supporting fingers pivotally mounted on each of the opposite sides of said member to swing about axes substantially parallel to the face of the plate and adapted to rest on locating surfaces to locate the magnet pole surface in a given relation to said surfaces, and means for securing the fingers in adjusted positions.

2,589,866
AUTOMOBILE VISOR
Gordon A. Roberts, Grosse Pointe, Mich.
Application October 23, 1948, Serial No. 56,126
4 Claims. (Cl. 296—97)

1. An automobile visor comprising a bracket adapted to be secured to the body of an automo-

bile in desired predetermined relation, a rod pivotally supported by said bracket and circular in cross section, and visor means mounted on said rod for pivotal movement relative thereto, said means including means telescopically receiving and yieldably gripping said rod and adapted to permit said visor means to be manually adjusted to any desired pivotal position relative to said rod and to yieldably support said visor means in said position, said last named means including a strip of resilient material formed to define a generally



cylindrical wall having a longitudinally extending outwardly projecting bead longitudinally coextensive with said wall and including a pair of generally radially extending walls integrally connected at their radially outer ends and integral at their radially inner ends with said cylinder wall, said bead being opened during assembly of said visor means with said rod to increase the angle formed by said radially extending walls of said bead and effect said gripping of the latter.

2,589,867

PROCESS FOR RECOVERY OF VEGETABLE PROTEIN

Stewart Rowe, Cincinnati, Ohio, assignor, by mesne assignments, to Buckeye Cotton Oil Company, Memphis, Tenn., a corporation of Ohio

No Drawing. Application July 8, 1949, Serial No. 103,760
11 Claims. (Cl. 260—123.5)

1. In a method of recovering protein of improved solution properties from oleaginous seed material by the process of treating the material with a protein solvent at a pH not less than 6, precipitating the dissolved protein with acid, and separating the protein from the acidulated solution, the step of introducing during the recovery process and prior to separation of the protein from the solution, at least one member of the group consisting of acid-soluble cupric and mercuric compounds in an amount insufficient to precipitate protein from an aqueous alkaline solution thereof but equal to at least 0.04 per cent of a gram-mol of the compound per 100 grams of recoverable protein present and sufficient to improve the solution properties of the recovered protein in aqueous alkaline media.

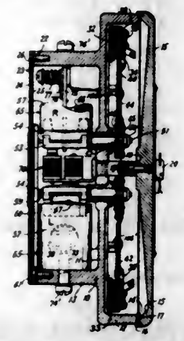
2,589,868

RELAY SWITCH

Maurice A. Rudd, North Plainfield, N. J., assignor to Bendix Aviation Corporation, New York, N. Y., a corporation of Delaware

Application August 29, 1945, Serial No. 613,317
8 Claims. (Cl. 200—104)

7. A switch mechanism comprising a metallic casing having a cover at each end, at least one of which is metallic, and a metallic partition intermediate the ends thereof to form two chambers radio-shielded from each other, at least one pintle journalled in and supported by said partition and terminating in said chambers, an insulating arm carried by one end of said pintle in one of said chambers, a first contact carried by said arm and grounded to said casing, a second contact mounted on and insulated from said casing in said one chamber for engagement by said first contact, and means in the other chamber for actuating said arm to engage and disengage said first and second contacts, said means including a pair of solenoid coils adapted to be individually, alternately energized, an armature mounted on said pintle for oscillation by said coils when the same are alternately en-



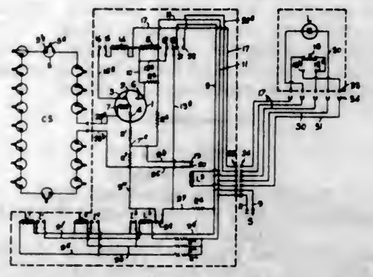
ergized, switch means comprising a pair of separable contacts in circuit with each of said coils and operable by said armature upon each actuation thereof to disengage the pair of contacts in circuit with the then energized coil to deenergize the same and to permit the engagement of the pair of contacts then in circuit with the other coil, said armature-controlled contacts being urged to engaged position by spring means, and a spring pressed cam lever mounted independently of said armature for yieldably holding said armature in its terminal positions against the pressure of said spring means.

2,589,869

TEMPERATURE CHANGE RESPONSIVE MEANS FOR CONTROLLING ELECTRIC CIRCUITS

William Harry Ruffle, Hove, England, assignor to Speed Development Company Limited, Hove, England, a British company

Application October 22, 1949, Serial No. 122,887
In Great Britain March 11, 1949
20 Claims. (Cl. 177—311)



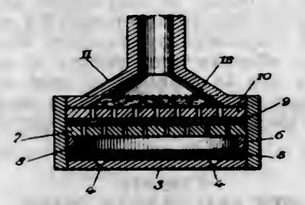
2. Electrically operated apparatus for bringing into operation by reason of a sudden change in temperature at a control source an electrically operated warning device, comprising a thermocouple for location in said source so as to generate a low E. M. F. output, a switch having a fixed normal conditions contact and a fixed operative circuit contact and also a co-operating moving contact actuated by said low E. M. F. output of the thermo-couple, a relay, means to connect said relay to a normal source of supply of electrical energy via said moving contact and said operative fixed contact so as to energise said relay when the said low E. M. F. is generated to engage the moving contact with the latter fixed contact, a holding circuit connected to said relay and adapted to be fed from the normal source, a warning device or other suitable electrically operated appliance in said holding circuit, means actuated by said relay to bring in said holding circuit and cut out said switch so that the said relay is thereupon energised via the holding circuit, a pulsating circuit fed from said normal source and located in the connection from the normal source to said moving contact and operating independently of the holding circuit, a resistance in series parallel with the circuit of the thermo-couple and switch and located in the connection from said normal source to said moving contact which splits the resultant E. M. F. so that part of the E. M. F. flows through said resistance and part through the moving contact actuating means to implement the E. M. F. operating the moving contact, a supply lead in said holding circuit to said relay and a return lead connecting the said relay to the warning device or other electrically operated appliance, and a further relay adapted to be brought into circuit when the normal conditions contact is engaged by the moving contact and connected to said normal source of E. M. F. supply at a potential with respect to the other relay which will overcome the energy derived from said latter relay and introduce an assisting E. M. F. into the means operating the moving contact when actuated back into engagement with the normal contact, a test circuit with means to bring it selectively into operation, and a further resistance connected across the thermo-couple circuit and the return to the said normal source of E. M. F. adapted upon bringing in the test circuit to introduce into the thermo-couple circuit an E. M. F. equal to the output of the thermo-couple circuit obtaining when the switch is actuated to bring in the first mentioned relay.

2,589,870

APPARATUS FOR SPINNING SOLUTIONS OF HIGH POLYMERS

Pierre Salé, A La Demi-Lune, and Joseph A. Trillat, Lyon, France, assignors to Societe Rhodiaceta, Paris, France, a French company

Application June 3, 1949, Serial No. 96,882
In France February 5, 1949
5 Claims. (Cl. 18—8)



1. A device for spinning a solution of high polymers, including a spinneret plate of rigid metal provided with extrusion orifices having a cross-sectional area at the inlet equal to at least 50 times the cross-sectional area at the outlet, comprising, in combination, a spinneret plate filter placed on said plate, said filter being in contact with said plate over its entire surface and covering all of said orifices, said spinneret plate filter comprising at least one fabric formed of filaments of synthetic resinous material, said filaments having a substantially circular cross-section and cylindrical shape, said fabric containing at least 10,000 interstices per square centimeter between the thread crossings, the average area of said interstices being smaller than the cross-sectional area at the outlet end of said extrusion orifices and being equal to at most 0.003 square millimeter, and, spaced from the spinneret plate filter and separated therefrom by a hollow space of at least 1 mm. thickness, a preliminary filter containing at least one fabric formed of filaments of synthetic resinous material, in order to permit the solution issuing from all points of the preliminary filter, to reach any of the extrusion orifices, said filaments having a substantially circular cross-section and cylindrical shape, said fabric containing at least 10,000 interstices per square centimeter between the thread crossings, the average area of said interstices being smaller than the cross-sectional area at the outlet end of said extrusion orifices and being equal to at most 0.003 square millimeter.

2,589,871

PURIFICATION OF VINYL AROMATIC COMPOUNDS

Benjamin B. Schaeffer, Niagara Falls, N. Y., assignor to Mathieson Chemical Corporation

No Drawing. Application September 25, 1948, Serial No. 51,313
6 Claims. (Cl. 260—650)

1. A method of treating vinyl aromatic compounds which are free from acetylenic groups but which are contaminated by the presence of acetylenic impurities to remove the latter therefrom which comprises reacting the acetylenic compound in the presence of the vinyl aromatic with a thiocyanic compound of the class consisting of thiocyanic acid and thiocyanogen, adding water to the resultant mixture in an amount sufficient to effect stratification of an aqueous phase and a vinyl aromatic phase containing thiocyanated reaction products, separating the latter phase from the aqueous phase, drying the washed vinyl aromatic phase and passing the dried vinyl aromatic phase in contact with an adsorbent selected from the group consisting of activated alumina and activated magnesia.

2,589,872

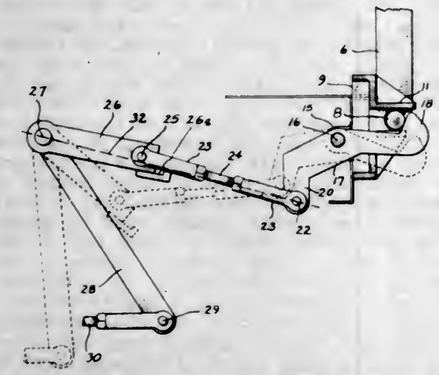
TAIL GATE CONTROL FOR DUMP TRUCKS

John L. Schetky, Portland, Oreg., assignor to Roots & Schetky Inc., Portland, Oreg., a corporation of Oregon

Application March 23, 1948, Serial No. 16,493
4 Claims. (Cl. 296—23)

1. A tailgate control for dump trucks, comprising a head piece, a transverse slot in said head piece for receiving a tailgate locking pin and defining an imperforate shield thereover, a longitudinal slot in said head piece, a latch bar pivotally secured in said longitudinal slot, a latch head on one end of the latch bar for releasably locking the tailgate pin in said transverse slot, said imperforate shield extending rearwardly over the tailgate pin-engaging surface of said latch head sufficiently to shield said parts from debris and thereby to prevent jamming of said mechanism, a link pivotally joining the opposite offset end of said latch bar to one arm of a bell crank, control means pivotally connecting the other arm of said bell crank to an actuating lever,

the pivotal connection of said link and bell crank arm lying intermediate the pivotal connection of the link and offset end of the latch bar and the pivotal support of the bell crank, respectively, being positioned above a dead center line extending between said latter pivotal connections to lock the latch head in locking position, and means for limiting the amount of travel above the dead center line of said link and bell crank arm pivotal connection.

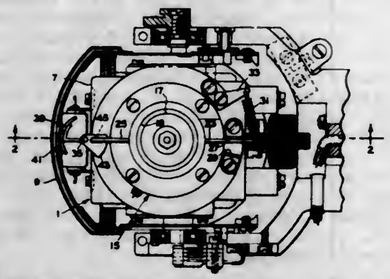


2,589,873

GYROSCOPIC INSTRUMENT

Paul E. Seifried, New City, N. Y., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application August 18, 1950, Serial No. 180,185
6 Claims. (Cl. 74—5.7)



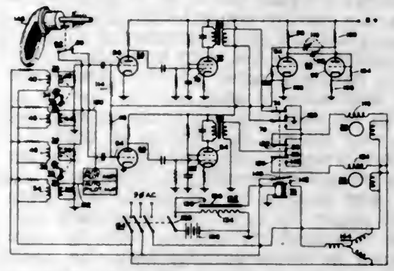
6. In a gyroscope having a support and a rotor rotatable in the support, a magnetic drag cup assembly having a cup-shaped element and a magnetic element received therein and concentric therewith, said magnetic element being adapted to be driven by the rotor and said cup-shaped element being rotatable relative to the support and having a pair of arms extending radially therefrom, a pair of limit stops fixed to the support and engaging one of said arms to limit rotation of said cup-shaped element relative to the support, an indicator mounted for rotation relative to the support and operatively connected to said other arm, a spring urging said one arm into engagement with one of said limit stops and moving said indicator to a position to indicate that the rotor is stationary or operating at subnormal speed, the torque exerted by said assembly when the gyro rotor is rotating at a predetermined speed overcoming the force of said spring and urging said one arm into engagement with the other limit stop and moving said indicator to a position to indicate that the rotor is operating at normal speed.

2,589,874

GYRO ERECTION SYSTEM

Rudolf R. Seliger, Palisades Park, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application June 30, 1949, Serial No. 102,389
12 Claims. (Cl. 74—5.47)



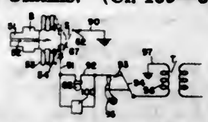
1. Control means for bringing the spin axis of a three-degree-of-freedom gyroscope into a normally vertical position from an inoperative or rest position and for thereafter maintaining the spin axis in a normally vertical position, comprising torque motors associated with the bank and pitch axes of said gyroscope, means responsive to displacement of said spin axis from said normally vertical position about said bank and pitch axis, and means for connecting said displacement means for operating said bank and pitch torque motors for bringing said spin axis from an inoperative or rest position into a normally vertical position and for thereafter reversing connection of said displacement means with said bank and pitch torque motors to maintain said spin axis in said normally vertical position.

2,589,875

PNEUMATIC THREAD CONTROL SYSTEM FOR LOOMS

Victor F. Sepavich, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application October 11, 1950, Serial No. 189,555
16 Claims. (Cl. 139—336.4)



1. In a pneumatic thread control means for the reserve bobbin weft ends of a loom having a source of subatmospheric pressures and a normally open electric circuit to be closed upon failure of the control means, a pneumatic system for said weft ends in which subatmospheric pressures are created by said source, and pneumatically controlled closing means for said electric circuit responsive to pressures within said system and effective upon failure of said control means due to inability of said source to create subatmospheric pressures in said system to cause closure of said electric circuit.

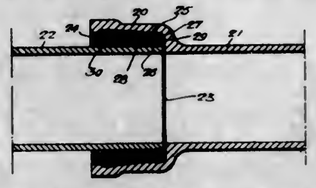
2,589,876

PIPE AND GASKET JOINT

William A. Seaher, Springfield, Pa.

Application August 7, 1947, Serial No. 766,922
1 Claim. (Cl. 285—14)

In a pipe joint, a pair of cooperating pipes having bell and spigot meeting ends forming a bell space for packing around the spigot, a sealing ring of rubber containing electrically conductive material distributed throughout the cross section of the rubber which makes the whole cross section of the sealing ring electrically conductive at the base of the bell space and a mass of electrically insulating cement filling the bell space beyond the sealing ring.

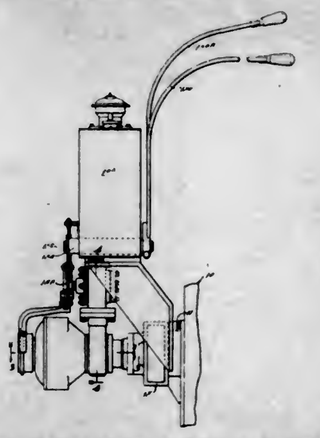


2,589,877

HYDRAULIC POWER CONTROL

George D. Shaeffer, Detroit, Mich., assignor to Gar Wood Industries, Inc., Detroit, Mich., a corporation of Michigan

Application June 27, 1946, Serial No. 679,668
4 Claims. (Cl. 103—23)



1. Control means for a fluid pumping and supply system comprising in combination with a pump for delivering fluid under pressure, a clutch for making and breaking a driving connection between said pump and a source of power, and a control valve for controlling the flow of the pumped fluid, a clutch actuating element movable to engage and disengage the clutch, a valve actuating element movable to actuate the valve, a spring biasing the valve to one position, a common control member for said elements limitedly movable independently of said valve actuating element and operatively connected to the clutch actuating element to actuate the same, and the clutch, only during such independent movement.

2,589,878

SAFETY WINDOW GUARD FASTENER

Leona E. Shapiro, New York, N. Y.

Application November 17, 1948, Serial No. 60,477
1 Claim. (Cl. 292—60)



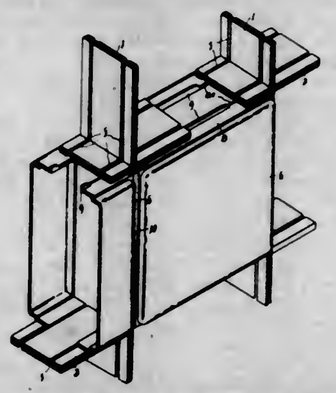
A fitment for releasably securing the top end of one of the vertical posts of a window guard to a window frame, comprising a mounting plate for attachment to the window frame, a bolt extended through said plate, and a hook on said bolt at the front of the plate for at least partially embracing the post, said bolt being swivelly mounted on said plate, said bolt also being slidable relative to said plate to allow abnormal spacing of said hook from the front of said plate, and a keeper on the front of said plate to be engaged by said hook for holding it in engagement with the post, said keeper being a semi-circular stall integrally formed on said plate with its open side facing said bolt, said stall being spaced from the axis of said bolt a distance to snugly receive the free end of said hook after said hook has been engaged about the post, said hook combining with said stall when in position in said stall to completely encircle the post.

2,589,879

BUILDING CONSTRUCTION

Earle L. Sheppard, Toronto, Ontario, Canada

Application October 29, 1946, Serial No. 706,324
4 Claims. (Cl. 20—4)



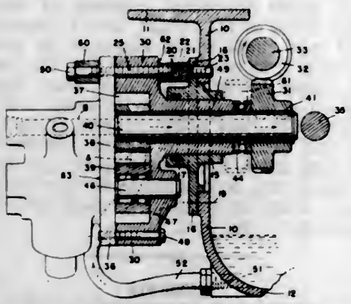
1. A building construction comprising a plurality of spaced strips, each strip having a plurality of substantially equi-spaced slots extending substantially half-way through the strips, and said strips being interlocked to form a frame structure having a plurality of rectangular cells open at each side of the structure, and a plurality of rectangular pan-like facing members, each closing a side of a cell, each said facing member being provided with continuous integral yieldable flanges extending at substantially right angles to said facing member, the flanges fitting into the frame structure and the outer surfaces of the flanges and the inner faces of the cells of the frame structure having co-operating projections and recesses, said projections engaging said recesses to frictionally retain the facing members in the cells with the outer face of said facing members extending between the outer edges of the cell, the facing members serving to lock the strips together and provide a rigid frame structure without other means for securing them together, the outer edges of the recesses being bevelled and the inner edges substantially perpendicular, and the outer edges of the projections being sloped outwardly and the inner edges of the projections being substantially perpendicular, so that the facing members may be snapped into the open sides of the cells a predetermined distance only and will be held frictionally therein, but can be removed without destroying the facing member or the frame structure.

2,589,880

INTERMITTENTLY USED POWER TAKE-OFF

Richard H. Sheppard, Hanover, Pa.

Application June 12, 1950, Serial No. 167,621
5 Claims. (Cl. 74—15.6)



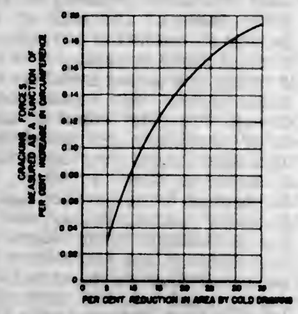
1. The combination with a self-propelled vehicle including a frame having a bearing therein, a member carried by the frame and having therein a tapped recess proximate the bearing, and a driven gear; of a power take-off unit slidable in the bearing including a shaft, an operating pinion on said shaft movable with the shaft into and out of mesh with said driven gear, a housing for the unit having a cylindrical opening therethru which is spaced from and with its axis parallel to the axis of the shaft, a headed and threaded securing means passing loosely thru said opening and fitting into the recess with its head spaced from the frame when the gears are in mesh for driving the unit, a sleeve loose on the securing means and fitting snugly between the housing and the head when the gears are in mesh and the securing means is screwed into the tapped recess to hold the power take-off in operative position, said sleeve being of a length equal to the axial movement of the pinion from operative to inoperative position, whereby the power take-off unit can be shifted from operative or inoperative position and vice versa by the removal of but the one securing means and positioning the sleeve either on the frame side of the housing or on the far side of the housing.

2,589,881

METHOD OF PRODUCING STEEL PRODUCTS AND ARTICLES

Clarence E. Sims, Columbus, Ohio, and Maurice N. Landis, Chicago, Ill., assignors, by direct and mesne assignments, to La Salle Steel Co., Chicago, Ill., a corporation of Delaware

Application February 18, 1950, Serial No. 144,908
11 Claims. (Cl. 148—12)



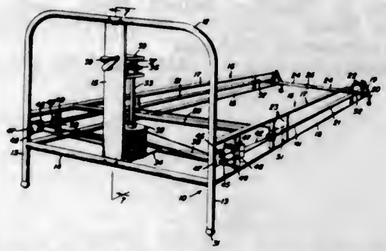
1. The method of treating non-austenitic steel of the type having a pearlitic structure in a matrix of free ferrite to produce an improved steel product; which method comprises cold working the steel to effect an abnormally heavy reduction and to set up in the steel hoop stresses of a magnitude which will, in the presence of a stress raiser, cause cracking of the steel following release of the cold working forces, containing said hoop stresses against release, and, while said hoop stresses are contained against release, further cold working the steel to effect a sufficiently light reduction to reform the said hoop stresses to stresses which are incapable of producing cracking of the thus worked steel.

2,589,882

APPARATUS FOR LOWERING BURIAL CASKETS INTO CRYPTS

John B. Sinner and Oscar A. Sinner, San Diego, Calif.

Application January 31, 1949, Serial No. 73,762
2 Claims. (Cl. 254—136)



2. Apparatus for lowering a burial casket into a sub-surface crypt comprising a substantially rectangular carriage for positioning in the top of the crypt comprising an upright end frame of inverted U-shape forming a top handle bar, pairs of upper and lower side bars extending from said frame below said handle bar, cable winding and unwinding means on said carriage adjacent said end frame, a pair of cables having both ends connected to said means for winding said cables up and unwinding the same in the form of loops, pairs of opposite pulleys mounted on said upper and lower side bars between the bars of the pairs and around which said loops are trained to be stretched taut across said carriage adjacent opposite ends thereof by winding up said cables to thereby support a casket elevated above said crypt, said cables being guided by said pulleys during unwinding thereof to provide descending loops between the pairs of pulleys for lowering the casket into said crypt, and means for releasably holding said cables pulled tight independently of said means first named comprising cable clamps interposed between the upper and lower side bars of said pairs and fixed thereto.

2,589,883

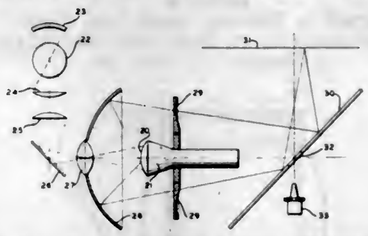
SCHMIDT TYPE OPTICAL PROJECTION SYSTEM FOR INDICATING DEVICES

John T. Soller and Merle A. Starr, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application November 29, 1945, Serial No. 631,739
12 Claims. (Cl. 88—24)

1. In combination with a cathode ray tube having a dark trace appearing on the screen thereof, an optical system for projecting an image of said trace upon a remote surface comprising, a light source, a concave reflector facing said screen, said reflector having an opening formed therein, means for directing and condensing light from said source on the surface of said screen through said opening in said concave reflector to

provide projection illumination for said dark trace image, a correction lens surrounding said



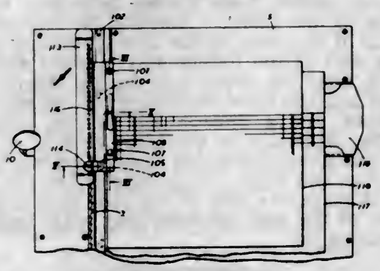
cathode ray tube, and a second reflector for directing light from said correction lens to said remote surfaces.

2,589,884

MANIFOLDING AND COPYING APPARATUS

Theodore Arthur Solway, formerly Tibor Zsolnai, London, England

Application November 28, 1947, Serial No. 788,574
In Great Britain February 8, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires February 8, 1966
6 Claims. (Cl. 282—29)



1. A manifolding or copying apparatus comprising a supporting member, a magazine adapted to hold a number of slips, of the kind including envelopes and slips of paper, the uppermost slip being substantially level with the surface of the supporting member, a first clamping device for gripping the edge of a sheet placed on the supporting member and above the said magazine, means whereby the said clamping device may be moved in steps relatively to the magazine, a second clamping device for gripping the edge of a second sheet placed above the first sheet, means whereby the said second clamping device is movable relatively to the first mentioned clamping device and to the magazine, and interengaging members mounted on said second clamping device and fixed to said supporting member respectively for retaining the said second clamping device in any one of a plurality of predetermined positions relatively to said magazine despite movement of said first clamping device.

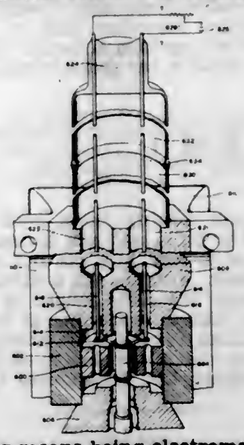
2,589,885

TUNABLE MAGNETRON

Simon Sonkin, New York, N. Y., assignor to the United States of America as represented by the Secretary of War

Application October 19, 1945, Serial No. 623,423
11 Claims. (Cl. 315—40)

1. A magnetron having a multi-resonator anode, pole pieces mounted in spaced relationship with respect to said anodes thereby defining the end spaces of said magnetron, electrically conductive tuning means located within one of the end spaces in spaced relationship with respect to said anode and the adjacent pole piece, movable conductive supporting means for said tuning means mounted within one of said pole pieces,



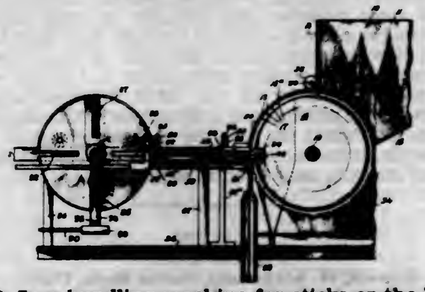
said tuning means being electromagnetically adjustable with respect to said anode, the position of said tuning means controlling the operating frequency of the resonators of said anode.

2,589,886

APPARATUS FOR ASSEMBLING A PREDETERMINED QUANTITY OF STICKS

Lawrence F. Spinney, Oakland, Maine, assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application January 3, 1947, Serial No. 719,987
12 Claims. (Cl. 93—93)



9. In a bundling machine for sticks or the like, means to assemble a plurality of sticks in face-to-face relation, an intermittently rotatable turret provided with slots to receive a predetermined quantity of sticks and maintain said separated sticks in assembled relationship for the wrapping of a binder thereabout, means to feed assembled sticks from said first mentioned means into the slots in said turret, said turret being slidably mounted so as to move in telescopic relation to said feed means as sticks are fed into said turret from said feed means, and signal means operated upon a predetermined movement of said turret.

2,589,887

YIELDABLE CHAIN LINK

Guy Elsworth Sprague, Rochester, Ind.

Application July 31, 1947, Serial No. 764,947
1 Claim. (Cl. 74—245)

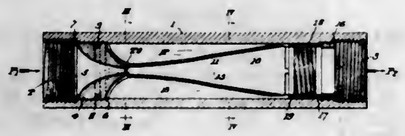
In a chain construction separable links each comprising spaced side walls, each side wall be-

ing formed with a pair of openings; end pins extended transversely between the side walls and through the openings; an integrally formed oblong closed link extending around the pins of adjacent separable links and having a single elongated opening receiving both of said adjacent pins; and coil springs disposed wholly within said oblong links in the space between said ad-



jacent pins and having their ends pivotally connected to the pins, said coil springs being so proportioned as to length, when not under tension, as to retain the pins at a distance apart substantially less than the length of the elongated opening thus to space one at least of the pins inwardly from an end of the elongated opening and thereby reduce the length of the linking connection between the first-named links.

2,589,888
FLOW CONTROL DEVICE
Walter J. Stampfl, Cleveland Heights, Ohio
Application February 25, 1948, Serial No. 10,780
7 Claims. (Cl. 138—45)



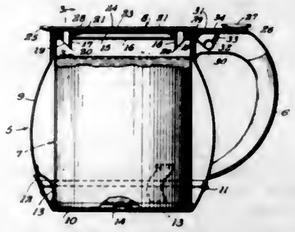
1. A valve comprising a casing, a fixed member at one end thereof, a hollow member adjacent to said fixed member and slidable in said casing, means for directing a fluid through said members and thereby controlling the rate of flow therethrough, said means comprising a bore of decreasing diameter in the fixed member alined with a bore of increasing diameter in the slidable member, means for limiting the movement of the slidable member, and an outlet at the opposite end from the said fixed member.

2,589,889
PAPER CLIP
Donald W. Stegeman, Santa Rosa, Calif.
Application August 8, 1949, Serial No. 109,139
5 Claims. (Cl. 24—66)



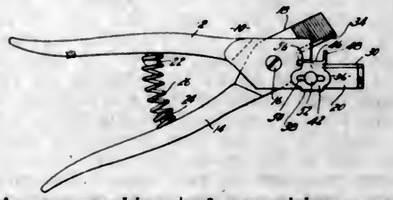
3. A clip comprising, a pair of superposed plates, having meeting portions for gripping paper, said plates having other portions disposed angularly with respect to one another, with the planes containing said other portions forming an angle facing generally toward the meeting portions of the plates, coil springs disposed between the plates, and means for fastening the ends of the coil springs to the angularly disposed portions in abutting relationship, to thereby force the coil springs to assume arcuate shapes with the convex sides of the springs facing generally toward the meeting edges of the plates.

2,589,890
CAN HOLDING, OPENING, AND POURING DEVICE
Russell L. Stoecker, Santa Ana, Calif.
Application July 18, 1949, Serial No. 105,321
3 Claims. (Cl. 222—86)



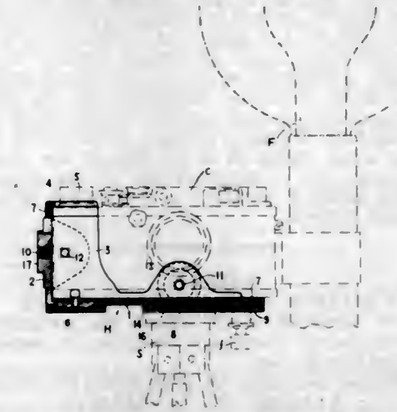
2. In a can-holding device, a container for a liquid-containing can, a handle extending laterally from the container and having a hollow portion adjacent the upper part of the container, a guide bar extending across the top of the container and aligned with the hollow portion of the handle, spaced sharp-ended tubes projecting downward from the guide bar and adapted to pierce the top of said can and communicate with the interior thereof, a slide guided by the guide bar and having holes spaced according to the spacing of the tubes, a pouring lip provided on one end of the slide, spring means residing in the hollow part of the handle and engaged with the slide to hold the same and the lip thereon retracted and the holes therein out of register with the tubes, and a finger-piece on said slide for effecting projection of the latter and its pouring lip to compress said spring means and to register said holes and tubes for pouring of the can contents through one hole of the slide and onto the portion of the slide between said latter hole and the pouring lip.

2,589,891
EAR NOTCHING TOOL
Edwal A. Stone, Kansas City, Mo.
Application October 31, 1949, Serial No. 124,703
2 Claims. (Cl. 128—316)



1. An ear marking tool comprising a pair of relatively pivoted jaws, one of said jaws carrying a V-shaped shearing punch and the other jaw carrying a V-shaped die, operable when relatively rotated to sever a V-shaped section from an animal's ear, and a gauge longitudinally adjustable on one of said jaws to present stops to limit the depth of insertion of the animal's ear between said jaws whereby notches of predetermined depths may be formed therein, said gauge comprising a U-shaped member disposed slidably about the outer portion of said die carrying jaw and having the free end portions of the legs thereof formed to present inwardly turned lips extending over the inner surface of said die carrying jaw to points adjacent the die opening thereof, and stops extending upwardly from said lips and adapted to receive said punch carrying jaw therebetween.

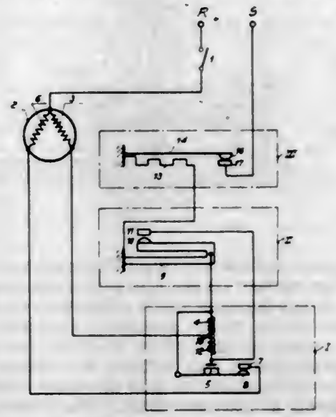
2,589,892
CAMERA HOLDER
Hiroshi Suzukawa, Suginami-ku, Tokyo, Japan, assignor to Canon Camera Company, Ltd., Chuouku, Tokyo, Japan, a corporation of Japan
Application September 5, 1950, Serial No. 183,195
In Japan August 30, 1949
5 Claims. (Cl. 95—86)



1. A camera holder comprising a bottom having a surface area coextensive with the bottom of a camera, an end wall integral with the bottom, a front and rear wall integral with the bottom, the end wall being of camera height and the front and rear walls being of camera height at the region thereof adjacent the end wall and of lesser height at the other regions, flanges on the end wall and the adjacent regions of the front and rear walls extending inwardly, the end wall, the adjacent regions of the front and rear walls, the bottom and the flanges forming a pocket snugly to receive one end of the camera, means extending through the bottom and into the bottom of the camera locking the camera into the pocket and to the holder, an L-shaped member adapted selectively to be attached to the rear wall in the vertical and the horizontal position, a projection integral with the L-shaped member extending forwardly of the camera selectively from the bottom and the end wall, and means in each the end wall, the bottom and the projection for attaching a tripod.

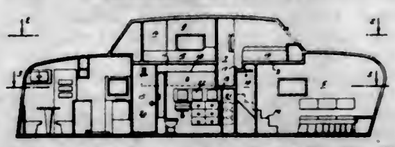
2,589,893
RELAY DEVICE FOR STARTING AND PROTECTING SINGLE-PHASE INDUCTION MOTORS, PARTICULARLY FOR COMPRESSION REFRIGERATOR MOTORS
Stefan Szaniszlo, Caronno Pertusella, Italy, assignor to Siemens Società Per Azioni, Milano, Italy, a corporation of Italy
Application March 25, 1950, Serial No. 151,864
In Italy April 2, 1949
7 Claims. (Cl. 318—221)

1. In combination, a single-phase induction motor having a main winding and a starting winding, an energizing circuit having two leads of which one is connected to said two windings, a timing relay having normally open first contact means and having a contact control member responsive to motor starting current, an electromagnetic relay having normally open second contact means and having two partial coils for controlling said second contact means, said two coils having a common circuit point and two respective end points, said two end points being connected across said first contact means, one of said partial coils being connected in series with said control member and in series with said main winding between said two leads through



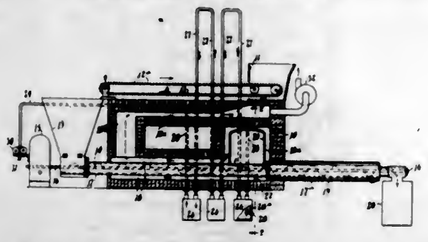
said common circuit point, said starting winding being connected through said second contact means with said other lead, and said two coils having mutually substantially neutralized fluxes when both energized to then cause opening of said second contact means.

2,589,894
TWO-DECK TRAILER
Richard E. Ten Eyck, Wichita, Kans.
Application November 18, 1948, Serial No. 60,702
2 Claims. (Cl. 296—23)



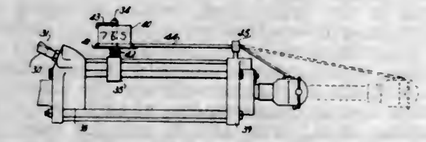
1. A house trailer conforming with the limited height requirements for use on highways comprising a lower deck section and an upper deck section which extends over a portion of the lower deck section, the upper deck section comprising walkways of full standing height one of which extends through a portion of the length of the upper deck section adjacent one wall and another of which communicates therewith and extends partially across the width of the upper deck section, a plurality of compartments of less than full standing height in communication with the walkways and a step up therefrom, the lower deck section being subdivided into compartments of full standing height from end to end and from side to side except for areas beneath the walkways, the ceiling of the lower deck section providing the flooring of the upper deck section, and an access stairway communicating the lower deck section with the walkways, the compartments in the upper deck section including one which extends lengthwise alongside the stairway for connection with the crosswise walkway and another which extends crosswise in communication with the lengthwise walkway, the lower deck section having compartments at each end of full standing height from end to end and from side wall to side wall and an intermediate compartment of full standing height except for areas beneath the walkways.

2,589,895
CARBONIZING UNIT
Svend Thomsen, Bala, Ontario, Canada
Application November 5, 1949, Serial No. 125,719
2 Claims. (Cl. 202—118)



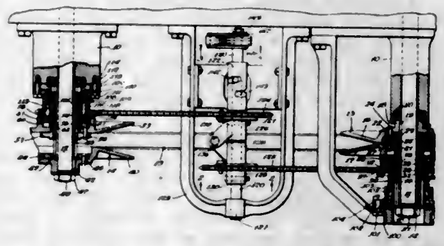
1. Apparatus for dry distilling and carbonizing vegetable matter having in combination a retort having a flat top and a fire chamber, a hopper at one end of the retort adjacent the top thereof, a feed vessel at the other end of the retort, a lower preheating flue within the retort leading from the bottom of the fire chamber toward the feed vessel, a top preheating flue leading from the lower preheating flue and extending under and adjacent the top of the retort, means for conveying vegetable matter across the top of the retort and in contact therewith to the feed vessel, a tubular screw conveyor for vegetable matter and having an inlet end in the feed vessel, the conveyor extending from the feed vessel through the retort and having a discharge end beyond the retort, the conveyor extending longitudinally through the lower preheating flue and through the fire chamber, cooling means for the conveyor located between the retort and the discharge end of the conveyor, a vapour take-off chamber within the fire chamber adjacent the conveyor, the conveyor having an opening leading into the take-off chamber for the escape of volatile material and the remainder of the conveyor being closed with the exception of the inlet end, a conduit pipe leading from the take-off chamber to a receiver, a vacuum pump communicating with the conduit and creating a vacuum in the conveyor and take-off chamber to promote vapour flow from the take-off chamber to the receiver, and exhaust means connected to the top preheating flue and promoting flow of flue gases from the fire chamber through the lower preheating flue in a direction opposite to the direction of transport of the said conveyor and through the top preheating flue in a direction opposite to the direction of transport of the said conveying means.

2,589,896
INDICATOR FOR HYDRAULIC RAMS
Wayne G. Toland, Canton, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application April 15, 1949, Serial No. 87,801
3 Claims. (Cl. 116—124)



1. In a remotely controlled hydraulic ram power lift attachment for a trail-behind agricultural implement wherein the ram cylinder is stationary and the piston is operatively connected to the earth working tools to raise and lower the latter, indicating mechanism for designating the operating position of the tools comprising a vertically extending shaft, clamping means for securing the lower end of the shaft to the cylinder, a drum journaled on the shaft having circumferentially spaced divisions marked thereon, a pointer carried by the shaft, a cord encircling the drum and having one end anchored thereto, means for securing the other end of the cord to the piston at a location on the piston movable, upon extension thereof in the cylinder, a distance equal to the circumference of the drum, whereby movement of the piston imparts corresponding rotation to the drum, and a spring surrounding a portion of the shaft, said spring being anchored at one end to the clamping means and at its other end to the drum to bias the latter to rotation in a direction to wind the cord thereon.

2,589,897
VARIABLE V BELT PULLEY DRIVE
Glen O. Turnbull, Rock Island, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 29, 1949, Serial No. 135,556
4 Claims. (Cl. 74—230.17)

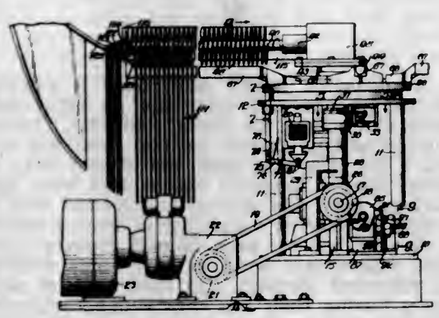


1. A variable V-belt pulley drive comprising a supporting structure, spaced parallel shafts journaled in said supporting structure, V-belt pulleys mounted on each of said shafts, each of said pulleys having complementary halves, one of each of said pulley halves having means cooperating therewith for effecting movement toward and away from their respective complementary pulley halves, a control shaft journaled on said supporting structure and disposed between the pulley shafts, said means for effecting movement of the pulley halves including a pulley half hub splined on each of said spaced shafts, a sleeve journaled for separate rotational movement on said hub, said sleeve arranged and constructed for joint longitudinal movement with said hub, said sleeve having a low pitch thread engageable with a correspondingly pitched thread on said supporting structure whereby rotational movement of said sleeve will effect longitudinal sliding movement of the sleeve and hub along said shaft, a sprocket mounted integrally with each of said sleeves, a pair of spaced sprockets carried on said control shaft so that one of the pair of sprockets is in alignment with one of the sprockets on one sleeve and the other of said pair of sprockets is in alignment with the sprocket on the other sleeve, chain means joining the aligned sprockets, hub members forming a part of each of the pair of sprockets on the control shaft, one of said pair of sprockets and its hub fixedly fastened to said control shaft, spring means interposed between said fixed sprocket and the other of said pair of sprockets, a V-belt extending around the spaced pulleys, said interposed spring means tending to maintain a constant tension on said belt without permitting the pulley halves to open up on direct outward belt forces on the movable pulley halves.

2,589,898
METHOD OF STIMULATING THE GROWTH OF MAMMARY GLANDS AND LOBULE-ALVEOLAR SYSTEM OF MAMMALS
Charles W. Turner, Columbia, Mo., assignor to American Dairies, Incorporated, Kansas City, Mo., a corporation of Maryland, and The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey
No Drawing. Application April 3, 1948, Serial No. 18,857
11 Claims. (Cl. 99—2)

1. A method for stimulating the complete growth of the mammary glands in milk secreting animals, comprising the steps of adding to their normal feed ration during pregnancy and prior to parturition, a mixture of synergistic compounds including estrogens and progesterone.

2,589,899
MACHINE FOR STRINGING HANGERS AND THE LIKE
Walter J. Vail, Chicago, Ill., assignor to Vail Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application June 11, 1949, Serial No. 98,507
6 Claims. (Cl. 214—8)

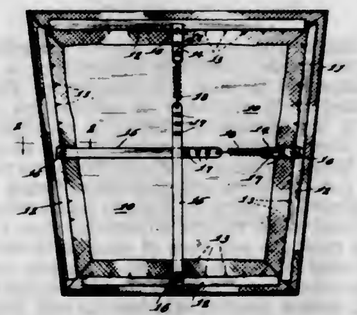


5. For use with a hanger-forming machine including a magazine bar free at one end and disposed at a downward incline toward its free end and along which hangers suspended from the bar are adapted to slide toward the free end of the magazine bar; an arm mounted horizontally for movement into and out of a hanger-receiving position in which it extends longitudinally from the free lower end of the magazine bar, a stationary support extending horizontally in a plane above the plane in which said arm moves whereby the arm may pass under the support during its movement toward and away from the magazine bar, a conveyor carried by said support and disposed over said arm longitudinally thereof when the arm is in its hanger-receiving position and serving to move hangers along the arm in spaced relation to each other, and an auxiliary conveyor rotatably carried by said support and extending therefrom longitudinally of the first conveyor, the auxiliary conveyor being tapered toward its outer end and disposed in overlapping relation to the lower end portion of the magazine bar and having threads disposed close to the magazine bar and serving to successively move hangers off of the free end of the magazine bar onto said arm when in operation and also serving to hold hangers upon the magazine bar when not in motion.

2,589,900
SOLUTION OF NUTRITIVE SALTS AND PROCESS OF MAKING THE SAME
Johannes Valmari, deceased, late of Helsinki, Finland, by Mauri Valmari administrator, Helsinki, Finland
No Drawing. Application June 27, 1950, Serial No. 170,686. In Sweden June 30, 1949
12 Claims. (Cl. 99—11)

1. The method of preparing a nutritive salts preparation containing metal components as normally comprised in human blood, and adapted to be consumed by mouth, which comprises the step of causing non-toxic, water-soluble salts of these metal components dissolved in water to react in aqueous solution with so much citric acid and sodium hydroxide that a solution is formed containing the metal components in approximately the same relative proportions in which they occur in the blood and in the form of the complex salts thus obtained, and adapted to be absorbed by the digestive tract, the quantity of citric acid being a least substantially sufficient to neutralize the sodium hydroxide.

2,589,901
SEAT COVER STRETCHING AND SECURING DEVICE
Ruth M. Van Doren, Elmhurst, Ill.
Application August 30, 1949, Serial No. 113,155
5 Claims. (Cl. 155—182)

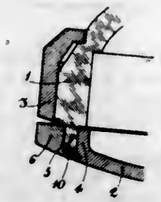


1. Means for stretching and securing covers for chair seats comprising, a pair of bars adapted to be placed adjacent opposite marginal edges of the seat, fabric-penetrating points on said bars, said points on opposite bars extending towards each other, an arm extending from each of said bars, and tension-applying means interconnecting said arms for drawing said bars together and for drawing said fabric penetrating-points into the fabric.

2,589,902
WATERTIGHT WATCHCASE
Emile Vaurilion, Geneva, Switzerland
Application March 27, 1945, Serial No. 585,075
In Switzerland May 2, 1944
2 Claims. (Cl. 58—90)

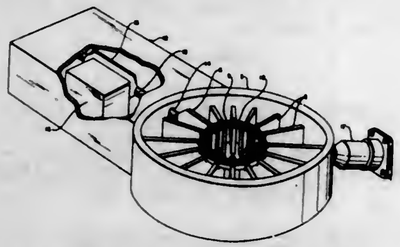
1. A water-tight watch case comprising a cup shaped crystal of flexible material having a deep integral rim for surrounding a watch movement, a metal back having a shallow rim freely received within the rim of said crystal, and a metal ring

surrounding and forcibly pressing the crystal rim about the rim of the back, said metal ring having



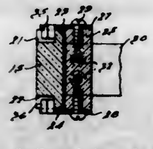
an inwardly extending edge flange concealing the free edge of the crystal rim.

2,589,903
TUNABLE MAGNETRON OSCILLATOR
Albert L. Vitter, Jr., New Orleans, La., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 4, 1946, Serial No. 651,924
4 Claims. (Cl. 315—40)



1. A magnetron oscillator device comprising a vane-type anode electrode comprising a ring-like conducting member the interior of which is partitioned by a plurality of conducting vanes, a box of conducting material, a rod-like conducting member disposed substantially along the central longitudinal axis of said box, one portion of said rod-like conducting member being flared into a plate-like form in a plane containing said longitudinal axis, means thickening the wall of said box opposite one face of said plate-like portion of said rod-like member with the spacing between the two members substantially decreased, means joining said box to said ring-like member, and means joining one end of said rod-like member to one of said vanes whereby energy is coupled from said magnetron anode to said box.

2,589,904
ROENTGENOGRAPHIC APPARATUS
Theodore Vladeff, Detroit, Mich.
Application July 19, 1946, Serial No. 684,840
2 Claims. (Cl. 33—158)



2. A device as defined in claim 1 wherein the bar is transparent and of substantially rectangular cross section, an index marking near the center of one face of the bar, said arms projecting substantially perpendicularly from said same face of the bar, said bar being rabbeted longitudinally along the corners adjacent its opposite face, said holding portions comprising retaining elements having guide portions extending laterally beside the bar and combined retaining and holding elements projecting into said rabbeted portions and sharpened on the side which engages the bar, no parts of said arms or retaining and holding elements projecting beyond said opposite face.

2,589,905
FOUR-COLOR MAGAZINE PENCIL
Frank Wagner, Laurel Hill, N. Y.
Application March 28, 1951, Serial No. 217,905
4 Claims. (Cl. 120—14.5)



1. A magazine pencil comprising a tubular body having one end open and its other end tapered to a hole on the axis of said body, a tubular barrel axially slidably but non-rotatively positioned over the said open end of said body, a member fixedly mounted within said body adjacent the open end thereof and formed with a plurality of grooves, a plurality of writing material carriers one for each of said grooves positioned within said body to have their writing ends extended through said hole, each of said carriers having their top ends slidably engaged in one of said grooves, resilient means holding said carriers in raised positions in said grooves in which their writing ends will be retracted into said body, and means controlled by axial sliding of said barrel relative to said body for selectively sliding one of said carriers relative to said member and against the action of said resilient means for extending the writing end thereof through said hole, said carrier sliding means comprising a pusher sleeve within the open end of said tubular body and above the adjacent end of said member, a rod extending concentrically from said member, an internal shoulder formed within said pusher sleeve and surrounding said rod, means retaining said pusher sleeve from being pulled off the end of said rod, means connecting said pusher sleeve to said tubular barrel for rotative movement relative thereto, said pusher sleeve having an end portion projecting from said tubular barrel, a cap fixed onto the projecting end of said tubular barrel by which said sleeve can be rotated relative to said tubular barrel, ribs on said carriers extended outward in said grooves, and an inwardly pressed portion formed on said sleeve to be brought selectively into position over the ribs of said carriers as said sleeve is rotated.

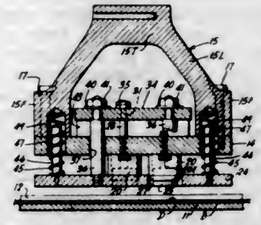
2,589,906
LIGHTER
Willard F. Wagner, Detroit, Mich., assignor of one-half to Charles W. Glenn, Centerline, Mich.
Application June 7, 1950, Serial No. 166,587
3 Claims. (Cl. 67—7.1)



3. A pocket lighter comprising, in combination, a relatively flat casing having an opening through the upper end thereof and a second opening through one side wall thereof, a cap for closing the upper end opening of the casing, a friction wheel carrier rigidly connected to the under side of the cap and depending downwardly therefrom in the closed position thereof, a lever of channel-shaped cross section in the interior of the casing positioned lengthwise across the side wall opening of the casing, the channel formation of the lever opening inwardly of the casing and having its longitudinal side wall sections slidably interfitting with the adjacent side wall portions of the casing to completely close the opening across which it extends, a pair of similarly shaped arms forming integral extensions of the side wall sections of the lever and projecting at an inward and upward inclination from the upper end of the lever, the upper ends of the arms straddlingly overlapping upon the carrier and being pivotally connected thereto about a common transversely extending axis, said cap, carrier and lever forming a permanently connected train of elements insertable into and extractable from the casing as a unit through the upper end thereof, and a transverse shaft extending through the carrier in parallel offset relation to said pivotal axis and being engaged in openings in the opposite side walls of the casing, said shaft serving as a pivotal mounting for the carrier and as the sole means for retaining said train of elements in the casing and being removable to permit extraction of the train as a unit from the casing.

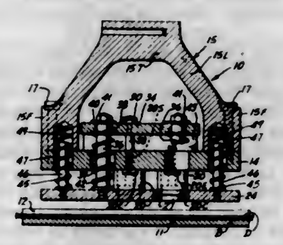
2,589,907
CUTTER FOR BISCUIT AND CRACKER CUTTING AND EMBOSSING MACHINES
Jack E. Weidenmiller, Lincolnwood, and Robert M. Weidenmiller, Skokie, Ill., assignors to Edward Weidenmiller Co., Inc., Morton Grove, Ill., a corporation of Illinois
Application December 15, 1949, Serial No. 133,123
2 Claims. (Cl. 107—26)

1. In a cutting unit of the character described having a cutter-carrying bolster block and a stripper plate supported beneath the bolster block in surrounding relation to the cutters and for limited downward movement relative to the bolster block, the combination of a plurality of mounting arches each comprising an elongated upper connecting portion, legs extended downwardly and outwardly from opposite ends of said upper portion and vertically elongated connecting feet at the lower ends of said legs, said feet being engaged with said upper surface of said bolster block at the opposite edges thereof and the space between said legs affording a clearance space extended along the top of said bolster block, said arches being spaced longitudinally of and being fixed to said bolster block, said bolster block and



said feet having upwardly extending pockets formed therein, and a plurality of springs acting at their lower ends against said stripper plate and disposed at their upper ends in said pockets in said block and said feet to urge said stripper plate downwardly relative to said bolster block.

2,589,908
EMBOSSING CUTTER FOR CRACKERS AND BISCUIT CUTTING AND EMBOSSING MACHINES
Edward A. Weidenmiller, Lincolnwood, Ill., assignor to Edward Weidenmiller Co., Inc., Morton Grove, Ill., a corporation of Illinois
Application September 12, 1950, Serial No. 184,279
1 Claim. (Cl. 107—26)



In a cutting and embossing unit of the character described, a bolster block, hollow cutters fixed to the lower face of said bolster block, a stripper plate disposed beneath said bolster block and having openings through which said cutters extend, an embossing plate mounted above said bolster block for vertical movement relative thereto, spring means urging said embossing plate upwardly relative to said stripper plate, positive stop means limiting such relative upward movement of said embossing plate by said spring means, resilient bumper means effective between said bolster block and said embossing plate to limit relative downward movement of said stripper plate, spring means acting to urge said stripper plate downwardly relative to said bolster block, embossing blocks disposed within the respective cutters for movement vertically within and with respect to said cutters, means rigidly connecting the respective embossing blocks to said embossing plate, and a plurality of headed studs extended slidably downwardly through said embossing plate and threaded into said bolster block so that said heads engage said embossing plate to move said embossing plate downwardly with said embossing blocks in an embossing relation to said cutters.

2,589,909

PRODUCTION OF TITANIUM DIOXIDE

John H. Weikel, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 24, 1949, Serial No. 83,285
4 Claims. (Cl. 23—202)

1. In the sulfuric acid digestion of titaniferous material, said material having been obtained by electrothermal smelting of a titaniferous ore in the presence of a carbonaceous reducing material and consequently containing more than one per cent of its titanium in a reduced state having a valence of less than four, wherein the titaniferous material is heated in admixture with concentrated sulfuric acid to initiate exothermic reaction therebetween, the hot reaction mass is permitted to set in the form of a hard porous cake, and the resulting hot cake is baked by being retained at an elevated temperature for a sufficient period of time to effect more complete conversion of the titaniferous material to titanium sulfate, the improvement which comprises passing an oxygen-containing gas through the porous cake during the baking stage, and maintaining the porous cake during the passage of said gas therethrough at an elevated temperature within the range of 150° to 260° C. in order to promote oxidation of the reduced titanium to the tetravalent state by the oxygen content of said gas passing therethrough.

2,589,910

PRODUCTION OF TITANIUM DIOXIDE

Erwin L. Schneider, Palmerton, Pa., assignor to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application March 24, 1949, Serial No. 83,290
4 Claims. (Cl. 23—202)

1. In the sulfuric acid digestion of titaniferous material, said material having been obtained by electrothermal smelting of a titaniferous ore in the presence of a carbonaceous reducing material and consequently containing more than one per cent of its titanium in a reduced state having a valence of less than four, wherein the titaniferous material is heated in admixture with concentrated sulfuric acid to initiate exothermic reaction therebetween, the hot reaction mass is permitted to set in the form of a hard porous cake, and the resulting hot cake is baked by being retained at an elevated temperature for a sufficient period of time to effect more complete conversion of the titaniferous material to titanium sulfate, the improvement which comprises passing a mixture of an oxygen-containing gas and steam through the porous cake during the baking stage, the amount of steam present in said mixture being sufficient to maintain a substantially saturated water vapor atmosphere within the porous mass, and maintaining the porous cake during the passage of said gas and steam therethrough at an elevated temperature within the range of 150° to 260° C. to promote oxidation of the reduced titanium to the tetravalent state by the oxygen content of said gas passing therethrough.

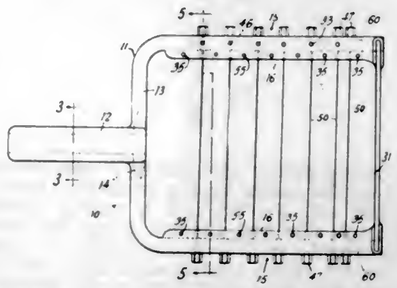
2,589,911

DEVICE FOR CUTTING A SLAB FROM A BLOCK OF SOFT MATERIAL SUCH AS BUTTER OR CHEESE

Maurice J. Weinberg, New York, N. Y.

Application September 13, 1947, Serial No. 773,818
7 Claims. (Cl. 30—117)

2. A device of the character described comprising a hollow handle, a transverse bar at the front end of the handle extending to opposite sides thereof, parallel forwardly extending side bars at opposite ends of the transverse bar, upwardly extending projections at the forward ends of said bars, a transverse bar interconnecting the upper ends of said upwardly projecting portions, the underside of said front transverse bar being above the plane of said side bars, said side bars being provided with inwardly extending longitudinal flanges having undersurfaces above the undersurfaces of said side bars, and a pair of lugs at the front ends of said side bars, projecting inwardly and spaced below said flanges, said side



bars being formed with a plurality of aligned pairs of through openings, sleeves having flats, within said opening, pins on said side bars engaging said flats to prevent said sleeves from rotating, the outer ends of said sleeves being screw threaded, nuts screwed to the outer screw threaded ends of said sleeves, each of said sleeves being formed with a longitudinal radial slit and an axial opening communicating with the slit and with an intermediate shoulder at the bottom of the slit and a wire interconnecting each pair of opposite sleeves and having end portions passing through the slits and engaging said shoulders.

2,589,912

BARREL BEDDING DEVICE FOR RIFLES

Leon S. Weld, Rochester, N. Y.

Application August 9, 1949, Serial No. 109,258
4 Claims. (Cl. 42—75)



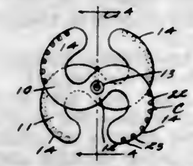
1. In a rifle including a stock having a barrel mounted thereon and provided with an aperture near one end thereof, a barrel bedding device comprising a sleeve provided at one end thereof with a peripheral flange adapted to rest on the stock adjacent the upper end of said aperture, a spring means positioned in said sleeve having one end thereof extending outwardly beyond the flanged end and the other end resting against a disc in the sleeve, a barrel receiving saddle supported by said spring, said sleeve having at the other end thereof a reduced portion provided with a concentric threaded aperture, adjusting screw means threadingly received by the last-named aperture for contacting the disc in said sleeve and varying the tension of the spring, and dust cap means mounted on the said reduced end portion.

2,589,913

ANCHOR FOR DECOYS

Frank W. Wenner, Davenport, Iowa

Application July 12, 1949, Serial No. 104,160
1 Claim. (Cl. 114—206)



An anchor for a decoy having a cast line, comprising: a pair of substantially S-shaped members reversely superposed to each other with intermediate portions crossing each other, a pivot eye swingingly connecting the members medially to each other effecting the cast line connection therewith and opening and closing jaws at opposite sides of said eye, whereby the members when in open position allow the line to be reeled on and from the same and when said members are in closed position will retain said line reeled thereon, and biting teeth exposed at opposite extremities of the members.

2,589,914

ENDLESS CHAIN-TYPE POWER-DRIVEN SAW

Joseph Wolf, Hood River, Oreg.

Application March 20, 1947, Serial No. 735,909
4 Claims. (Cl. 143—32)



1. In a power-type endless chain saw of the class described, in combination, a rigid body plate provided with a marginal flange functioning as a track for a chain, said flange being of a cross-section appreciably less than the cross section of the plate and defining and providing chain-tracking ledges, and a chain made up of a plurality of interconnected hingedly connected links, said links being channel-shaped in cross-section and provided at corresponding ends with apertured ears and at opposite corresponding ends with lug-equipped ears, the apertured ears overlapping the lug-equipped ears and being hingedly attached to the latter by way of the lugs.

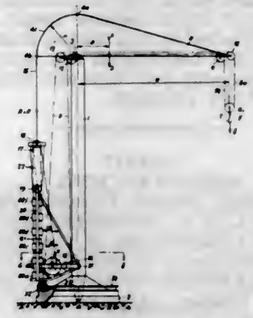
2,589,915

LOAD LIFTING ARRANGEMENT

August Wullschleger, Olten, Switzerland

Application August 17, 1949, Serial No. 110,700
In Switzerland August 17, 1948
6 Claims. (Cl. 212—58)

1. A crane comprising a base, a pillar pivoted on said base, a jib pivoted on top of said pillar so as to be tiltable in a vertical plane, the said jib having a long, load carrying arm and a short, cam-shaped arm, a pair of sheaves journalled at the distal end of the said long arm, another pair of sheaves journalled on the jib near its pivot on the pillar, a load block and hook, a load cable running double over the said two pairs of sheaves and arranged to suspend the said load block and hook, a load lifting drum journalled on the said pillar, a first load compensating drum also journalled on the said pillar, the two ends of the said load cable being attached to and arranged for being wound on and off the said first compensating drum and the said load lifting drum, respectively, a second compensating drum rigidly connected to the said first compensating drum, a flexible tension member attached with one end to the said jib and arranged to hug the cam shaped arm thereof, and attached with its other end to the said second compensating drum for being wound on and



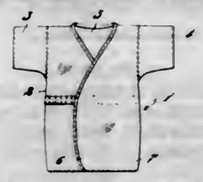
off said second compensating drum, the said load cable and flexible tension member being arranged for producing moments of opposite sign and substantially equal value on their respective rigidly connected drums, and means for turning the said rigidly connected drums, the said first compensating drum being adapted to pay out or wind on so much of the said load cable when tilting the said jib that the load block and hook move substantially level when raising or lowering the said long arm of the jib.

2,589,916

BODY GARMENT HAVING GIRTH ADJUSTING FASTENER MEANS

Justin L. Wyner, Brookline, Mass., assignor to The Vanta Company Inc., Newton, Mass., a corporation of Rhode Island

Application September 18, 1950, Serial No. 185,429
1 Claim. (Cl. 2—111)



An infant's double-breasted shirt of single ply knitted material having a neck opening and openings for the arms and with provision for girth adjustment, said garment comprising inner and outer front flaps which, in use, are disposed with the outer flap overlying the inner flap to a greater or lesser degree according to the size of the infant and providing a double thickness of the material at the front of the infant's body, a hook attached to the outer surface of the inner flap adjacent to the free edge of the flap, another hook attached to the inner surface of the outer flap adjacent to the free edge of the latter, said hooks being at the same distance from the lower edge of the garment and approximately at the waistline, and lengths of tape secured, respectively, to the inner and outer flaps, one length of tape being secured to the outer face of the inner flap and the other length of tape being secured to the inner face of the outer flap, each of said tapes extending horizontally approximately at the waistline and each of said tapes comprising

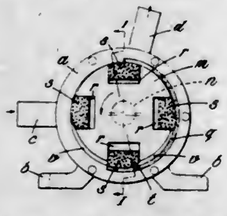
a series of pleats permanently secured to the garment flaps, and being secured to the respective flaps of the garment by sewed seams which extend lengthwise of the tapes, the seams being spaced apart to leave the edges of the pleats free at the mid-width of the tape for engagement by the complemental fastener element, the hooks being directed oppositely when the flaps are overlapped, and the pleats having the central portions of their edges free to constitute eyes for the reception of the respective hooks, the parts being so constructed and arranged that when the garment is in use both hooks are interposed between said front and rear flaps and invisible from the outside of the garment.

2,589,917

GRINDING MILL

Richard Zückert, Chard, England, assignor of one-half to L. & C. Hardtmuth, Inc., Bloomsbury, N. J., a corporation of New Jersey

Application November 8, 1948, Serial No. 58,973
In Great Britain November 27, 1947
11 Claims. (Cl. 241—107)



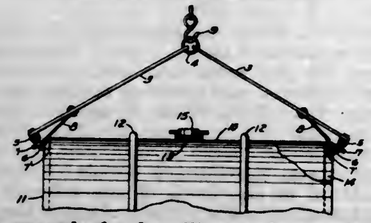
1. A grinding mill comprising a cylindrical body presenting an inner peripheral abrasive surface, a carrier mounted to rotate within said body about an axis eccentric to the axis of the body, at least one abrasive block mounted in said carrier and slidable radially with respect thereto so as to bear against the grinding surface under the influence of centrifugal force, and an inlet and outlet into the grinding space of the body located on opposite sides of a radial plane through the point of closest approach of the carrier to the body.

2,589,918

GRAPPLE FOR HANDLING BARRELS

Doyle Anderson, Fort Wayne, Ind.

Application March 6, 1948, Serial No. 13,510
4 Claims. (Cl. 294—106)



1. A grapple for handling casks consisting of a pair of oppositely disposed arms linked together adapted for connection with a hoist, the outer ends of said arms having corresponding cross-heads provided on their ends with downwardly extending studs, proximal and distal rollers disposed on said studs arranged to rotate relatively on divergent axes, and guide-plates on said arms located adjacent the cross-heads thereon that slide upon the chines of said casks, whereby said rollers are directed into engaging position with the casks as the grapple is raised by said hoist.

2,589,919

METHOD OF PRODUCING A BUTADIENE-ACRYLONITRILE COPOLYMER LATEX OF HIGH SOLIDS CONTENT

Erving Arundale, Westfield, N. J., and Frances Bascom, Staten Island, N. Y., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 19, 1947, Serial No. 792,854
16 Claims. (Cl. 260—82.3)

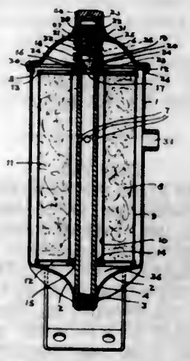
1. An improved process for producing latex of high solids content directly by emulsion polymerization of a conjugated diolefin and acrylonitrile which comprises admixing 65 to 85 parts of the diolefin with 35 to 15 parts of acrylonitrile and 60 to 75 parts of water, emulsifying these ingredients with 0.3 to 1.0 part of an emulsifier capable of inducing polymerization and selected from the group consisting of potassium soaps of fatty acids having 10 to 18 carbon atoms per molecule and alkali alkyl sulfates having 10 to 16 carbon atoms per alkyl group, effecting the polymerization at a temperature below 50° C. while agitating the resulting emulsion at a peripheral agitation speed between 600 and 900 feet per minute in the conjoint presence of 0.2 to 0.3 part of an alkali persulfate catalyst, of 0.2 to 0.75 part of an electrolyte selected from the group consisting of sodium and ammonium salts of hydrochloric, phosphoric, sulfuric, sulfurous, acetic, and pyrophosphoric acids to cause particle size growth and 1.0 to 2.0 parts of a disperser selected from the group consisting of the fixed alkali salts of a formaldehyde condensed beta naphthylene sulfonic acid and a fixed alkali salt of a fatty acid having not less than 8 and not more than 9 carbon atoms to prevent coagulation, stopping polymerization after at least 70% conversion and stripping off the unconverted monomers.

2,589,920

OIL FILTER

Ronald Carey Beckett, Galt, Ontario, Canada, assignor to Kralinator Products Limited, Preston, Ontario, Canada

Application December 13, 1947, Serial No. 791,498
2 Claims. (Cl. 210—131)



1. In an oil filter unit, a longitudinally upright casing having an oil inlet opening in the wall thereof, a vertical tube centrally arranged in and extending longitudinally of said casing and communicating at its lower end with the exterior of said casing to provide an oil outlet and having an upper end threaded interiorly and exteriorly, a cap engaging the threaded exterior of said tube to seal the upper end thereof, a filter

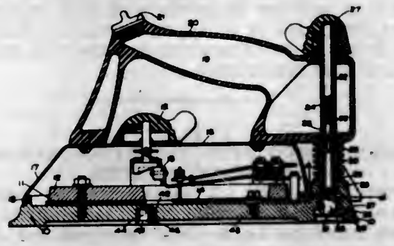
cartridge surrounding said tube with the ends of said cartridge in sealing contact with said tube, said tube having ports therein between the ends of said cartridge, a valve seat arranged in said tube adjacent the upper end of said cartridge, a conical valve member slidably arranged in said tube above said valve seat to seat thereagainst and formed to have a close sliding fit at its maximum diameter with the interior of said tube to define an annular variable chamber of cuneiform section above said valve seat with the inner wall thereof defined by said conical valve presenting an angular upwardly diverging thrust surface, the outer wall of said chamber defined by said tube having ports therein to establish a pressure oil wedge in said chamber acting on said angular thrust surface to lift said valve under force of the vertical resolution of the force of said oil wedge against said angular thrust surface, an adjustable plug threaded into the upper end of said tube, and a spring interposed between said adjustable plug and valve and urging said valve against said valve seat, said valve being provided with a bleed orifice therethrough.

2,589,921

ELECTRIC STEAMING IRON

Reginald G. Boardman, Sutton Coldfield, near Birmingham, and Archibald P. Thomas, Marston Green, Birmingham, England

Application January 14, 1948, Serial No. 2,254
In Great Britain December 19, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires December 19, 1965
7 Claims. (Cl. 38—77)



1. In an electric smoothing iron of the kind having means for delivering steam to the underside of the sole plate comprising, a water reservoir disposed above the sole plate, a flash boiler provided in the sole plate and a water supply tube depending from the water reservoir and communicating at its lower end with the flash boiler, an upstanding member carried by the part of the sole plate in which is provided the flash boiler, whcih member projects into the lower end of the dependent water supply tube, said projecting member having a diameter less than the internal diameter of the lower end of the tube to provide an annular space around said member through which the water can flow to the flash boiler.

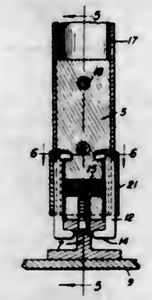
2,589,922

QUICK DETACHABLE ANCHORING MEANS FOR CHAIRS AND THE LIKE

Harry A. Bowman, Anchorage, Territory of Alaska

Application March 1, 1949, Serial No. 79,037
4 Claims. (Cl. 287—20)

3. An anchoring device comprising a rail having a T head and longitudinally spaced apart recesses in the top of the rail, an anchoring post resting on top of the rail, a reduced axial pin on the lower end of the post selectively engaged in



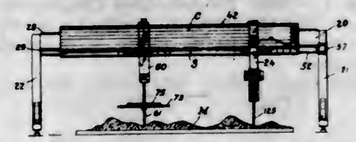
said recesses to hold the post in longitudinally adjusted position on the rail, and clamping means carried by the post for engaging the edges of the rail to hold the post in an upright position.

2,589,923

APPARATUS FOR CHARTING GEOGRAPHICAL PROFILE

John J. Braund, Washington, D. C.

Application October 11, 1945, Serial No. 621,707
10 Claims. (Cl. 33—23)



2. Apparatus for charting geographical elevational profile comprising an elongated straight frame, spaced apart supports for mounting the frame over a topographical map, an upright chart strip holder mounted upon and extending lengthwise of the frame, a scriber for drawing a profile line on a chart in the holder, a carriage movable lengthwise on the frame, a vertical arm supporting the scriber mounted on the carriage for lengthwise movement therewith and vertical movement independently therefrom, a map-engaging element mounted on the lower end of the vertical arm adapted to trace a selected path on the map under lengthwise movement of the carriage and determine from the contour represented on the map the correct vertical position of the arm and the scriber at progressive portions of the profile line inscribed on the chart strip, and wherein the chart strip holder has a longitudinally extending chart strip retaining flange, and further including a mileage scale holder having mounting means detachably engageable with said flange on the chart strip holder.

2,589,924

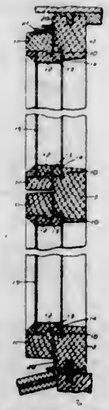
SASH CONSTRUCTION

Victor William Braybrook, Hounslow, England

Application March 5, 1946, Serial No. 652,965
In Great Britain March 8, 1945
5 Claims. (Cl. 20—56)

4. A rail element for use in a casement sash of the type for mounting in a window frame having a rebate therein comprising a main member, a secondary member disposed on the inner face of said main member and extending longitudinally thereof, complemental means on said main member and secondary member for securing said mem-

bers together, the outer face of said secondary member being located within the plane of said main member to provide a rebate inwardly of the



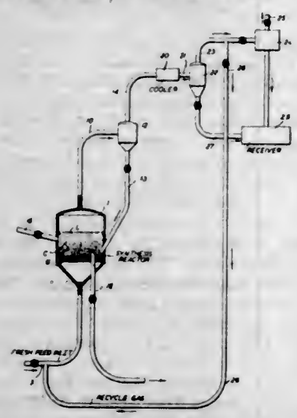
main member, and the inner face of said secondary member extending beyond the inner face of the main member to form a projection.

2,589,925

HYDROCARBON SYNTHESIS

Virginia L. Cain, Linden, and Charles E. Hemminger, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 9, 1947, Serial No. 747,112
3 Claims. (Cl. 260—449.6)



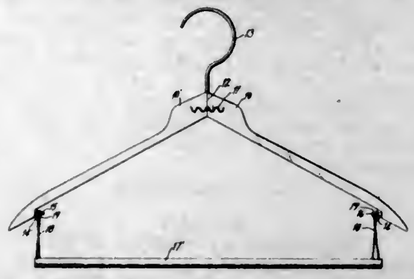
1. The method of synthesizing hydrocarbons and oxygenated hydrocarbons which comprises providing a fluidized bed of active powdered iron catalyst having a total oxygen content of about 5–10%, treating said powdered iron catalyst prior to contact with synthesis feed gas with a CO-rich gas in which the partial pressure of CO is about 25–75 lbs. per sq. in. absolute at temperatures within the range of from about 300°–400° F. for a sufficient period of time to convert the iron powder to iron carbide to the extent that it contains 1.0–3.5 weight percent of carbide carbon mostly in the form of Fe_2C and thereafter contacting the thus treated catalyst in the form of a dense, fluidized bed in a reaction zone with a synthesis gas containing hydrogen and carbon monoxide while maintaing the reaction zone at temperatures of from about 550° F. to 700° F., maintaining a hydrogen partial pressure of about 170 lbs. per sq. in. the synthesis gas in said reaction zone whereby the above-mentioned carbide carbon content of the catalyst is maintained in the reaction zone during the synthesis reaction, maintaining the synthesis gas in contact with said catalyst in the reaction zone for a sufficient period of time to obtain the desired reaction, and recovering from said reaction zone effluent vapors containing normally liquid hydrocarbons.

2,589,926

GARMENT HANGER

Harold C. Cook, Sr., Long Island City, N. Y.

Application July 17, 1946, Serial No. 684,151
13 Claims. (Cl. 223—91)



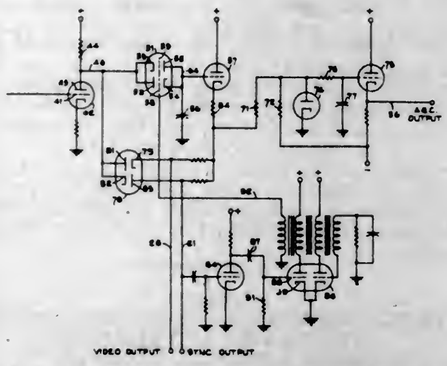
1. A garment hanger comprising shoulder pieces, pins projecting from the underside thereof to serve as supports, clamping rods, and coil springs having crossed ends attached to the rods whereby to impart gripping action thereto, said springs having portions intermediate their ends formed into coils for supporting engagement with said pins, and the tip portions of said spring ends being embedded in said rods to support the latter and hold the same against movement longitudinally of said spring ends.

2,589,927

KEYED AUTOMATIC GAIN CONTROL AND SYNC SEPARATOR

Robert Crane, Jr., Chappaqua, and Louis L. Pourciau, Pleasantville, N. Y., assignors to General Precision Laboratory Incorporated, a corporation of New York

Application February 25, 1949, Serial No. 78,434
14 Claims. (Cl. 178—7.5)



13. In a television receiver, a demodulator producing a composite signal wave of mixed picture signals and blanking pedestals on which synchronizing signals are superimposed, an amplifier, a direct current connection between the output of said demodulator and the input of said amplifier,

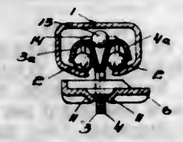
a condenser, a first circuit interconnecting said amplifier output and said condenser comprising a first tube section having its anode connected to said amplifier output and its cathode connected to said condenser, a second circuit interconnecting said amplifier output and said condenser comprising a second tube section having its cathode connected to said amplifier output and its anode to said condenser, control electrodes for each of said first and second tube sections at potentials normally rendering said tube sections nonconductive, a trigger generator producing pulse signals, means connected to said control electrodes and operative by said pulse signals for momentarily rendering said first and second tube sections conductive whereby energy is transferred between said amplifier output and said condenser only during said conductive intervals and the potential drop produced across said condenser is made to correspond to the potential of the amplifier output circuit at the time said tube sections are rendered conductive, a cathode follower connected to have the potential drop existing across said condenser impressed on its input and having its output adjusted to produce a potential equal to the potential level assumed by said amplifier output circuit during the intervals of conductivity of said first and second tube sections, a third circuit interconnecting said amplifier output circuit and said cathode follower output circuit including a third tube section having its anode connected to said amplifier output circuit and its cathode to said cathode follower output circuit, a circuit for deriving only picture signals and blanking pedestals from said third circuit, a forth circuit interconnecting said amplifier output circuit and said cathode follower output circuit including a fourth tube section having its cathode connected to said amplifier output circuit and its anode connected to said cathode follower output circuit, means for limiting the current through said third and fourth tube sections to a small fraction of the current flow through said cathode follower, a circuit connected to the anode of said fourth tube section for deriving only synchronizing signals from said fourth circuit and circuit means for applying the synchronizing signal derived by said last-mentioned circuit to said trigger generator whereby the pulse signals produced by said trigger generator occurs in timed relation to and immediately succeeds said synchronizing signals.

2,589,928

SUSPENSION DEVICE IN SLIDING DOORS AND THE LIKE

Adriaan Matheus de Jong, Stocksund, Sweden

Application July 26, 1949, Serial No. 106,866
In Sweden July 27, 1948
5 Claims. (Cl. 16—88)



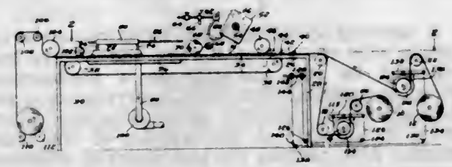
1. A suspension device adapted for supporting sliding doors and the like, comprising, a carriage, web means on said carriage, said web means having at least one T-shaped recess therein, the arms of said T-shaped recess being substantially horizontal and the stem of said recess being substantially vertical and opening downwards through an edge of said web means, a washer inserted in the arms of said T-shaped recess and resting on the lower edges of said web defining said arms, securing means adapted to be secured to a door, and interengaging means on said securing means and said washer adapted for suspension of a door on said washer.

2,589,929

APPARATUS FOR CONTINUOUS SEAMING OF PILE FLOOR COVERINGS

Ara T. Dildilian, Suffield, Conn., and Kenneth M. Wood, Valley Stream, N. Y., assignors, by mesne assignments, to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware

Application July 10, 1948, Serial No. 38,044
6 Claims. (Cl. 154—42.3)



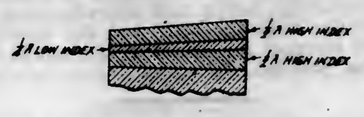
1. An apparatus for joining two pieces of pile floor covering at the seam thereof comprising a table, means to draw said pieces pile face down onto and over said table with an edge of one of said pieces tightly abutting the edge of the other piece, a trough extending substantially the length of said table, a pulley underneath one end of said trough, another pulley underneath the other end of said trough, an endless conveyor belt passing around said pulleys and along and upon the bottom of said trough, spikes on said belt adapted to engage the pile faces of said edge portions and maintain said edges in tightly abutting relationship with each other, means to apply an adhesively coated seaming tape to the backs of the abutting edge portions of said pieces, a heated device adapted to ride on said tape a predetermined distance and means to raise, retract and lower said heated device in relation to said tape.

2,589,930

COLOR TELEVISION LIGHT DIVIDER

Glenn L. Dimmick and Mary E. Widdop, Haddon Heights, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application March 17, 1948, Serial No. 15,386
10 Claims. (Cl. 88—1)



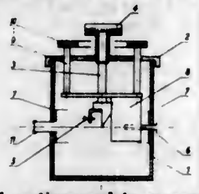
1. In a color selective optical system wherein light rays through said system follow divergent paths, a planar transparent support positioned obliquely in said light paths whereby the light rays strike said support at different angles of incidence and a dichroic layer supported by said transparent support, said layer being capable of reflecting a selected color band, due to interference effects, and transmitting the remaining colors of the visible spectrum, said dichroic layer having a tapered thickness varying substantially inversely with the cosine of the angle of incident light to present a uniform effective optical thickness to rays passing therethrough for substantially all the ray positions of said light path whereby the color reflective property is substantially uniform across the entire layer.

2,589,931

X-RAY ANALYSIS OF MATERIALS

Alois Dvořák, Prague, Czechoslovakia, assignor of one-half to Chirana, národní podnik, Prague, Czechoslovakia, a national corporation of Czechoslovakia

Application December 14, 1949, Serial No. 132,827
In Czechoslovakia June 5, 1947
4 Claims. (Cl. 250—53)



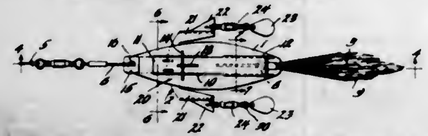
1. Method of radiographic examination of materials with the aid of X-rays, the X-rays being reflected by test material on a photographic layer, comprising cylindrically arranging a photographic film, rotatably suspending the test material in the axis of the cylinder of the photographic film, holding the test material stationary during the exposure, and providing a movably arranged cylindrical screen to protect the photographic layer against recording an undesired region of reflected angles.

2,589,932

FISH BAIT

Edward L. Farley, Lakeland, Fla.

Application September 7, 1948, Serial No. 48,100
10 Claims. (Cl. 43—42.08)



1. A fish bait comprising a body, means fixed to the upper side of the body adjacent to its rear end for removably attaching a fish hook to the rear end of the body, a member having a guard on its rear end and pivotally connected to the body on a horizontal axis to swing relatively thereto to bring the guard on said member into a position to cooperate with the hook attaching means to retain the hook thereon, the forward end of said member being weighted to swing the guard by gravity into a position to uncover the hook attaching means, and line-attaching means cooperative with the body and the forward end of said member for retaining the guard in said covering position.

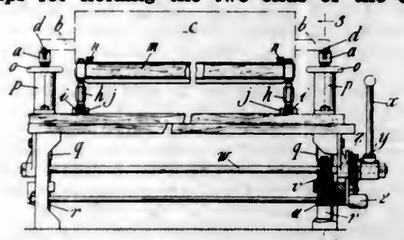
2,589,933

MACHINE FOR PRODUCING PATTERNS PHOTOGRAPHICALLY ON THE SURFACE OF COPPER AND LIKE ROLLERS

Laszlo Frank, Sale, near Manchester, England

Application August 4, 1950, Serial No. 177,694
In Great Britain July 18, 1949
1 Claim. (Cl. 95—73)

A machine for use in the photographic reproduction of patterns or designs upon printing rollers, comprising jacks for supporting at an adjustable height the ends of the mandrel carrying the printing roller to which the pattern or design is secured, a pair of rollers upon each jack to support the printing roller mandrel between them, springs supporting the jacks, rack and pinion mechanism with a common shaft for the two pinions for operating the jacks simultaneously through said springs, pawl and ratchet wheel mechanism for holding the said common shaft in any desired position, means for releasing the pawl to lower the jacks, a transparent cover to pass round the printing roller and clamp thereon the pattern or design to be reproduced photographically upon the printing roller, and clamps for holding the two ends of the cover



beneath the printing roller, said clamps each comprising a bar with rounded operative face to engage the cover, a channel shaped member to the flat face of which the bar is secured, the cover passing round the bar and into the channel of the channel shaped member where it is clamped, means supporting each clamp at an adjustable height, and means allowing the clamps to be adjusted away from and towards each other.

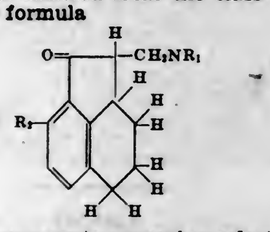
2,589,934

2-AMINOMETHYL-TETRAHYDROACENAPTHONES-1 AND THEIR PREPARATION

Howard J. Glenn, Waukegan, and Bruce W. Horrom, Winthrop Harbor, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois

No Drawing. Application August 24, 1950, Serial No. 181,315
9 Claims. (Cl. 260—247.7)

1. A member selected from the class of compounds of the formula



where —NR_1 represents a member selected from the class consisting of piperidino, morpholino, pyrrolidino, and dimethylamino groups and R_2 is a member selected from the class consisting of hydrogen and methoxy, and salts of these compounds.

2,589,935

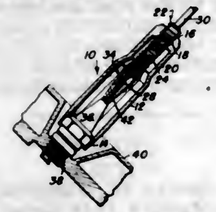
SPARK PLUG INSTALLING AND REMOVING TOOL

Louis J. Guisti, North Augusta, S. C., assignor of thirty-three and one-third per cent to Isaac S. Peebles, Jr., Augusta, Ga., and sixteen and two-thirds per cent to Thos. R. Burnside, Thomson, Ga.

Application July 7, 1949, Serial No. 103,514
1 Claim. (Cl. 81—125)

A spark plug installing and removing tool, comprising an elongated socket provided at one end thereof with a screw threaded opening and provided at its other end with a polygonal wrench portion to non-rotatably engage a spark plug, an externally screw-threaded barrel threadedly

mounted in said opening and extending into said socket, a portion of said barrel in the socket being internally screw-threaded to engage a spark plug terminal, and a rotatable locking stem disposed in said barrel and having a screw-threaded



portion engaging the internal screw-threads of the barrel, said screw-threaded portion of said stem being projectable and retractable in the adjacent end portion of the barrel to afford a secondary spark plug terminal engaging element.

2,589,936

DISPENSING DEVICE FOR TABLETS AND THE LIKE

Conrad Habicht, Schaffhausen, Switzerland

Application April 14, 1949, Serial No. 87,434
In Switzerland April 9, 1948
3 Claims. (Cl. 206—42)



1. A container for dispensing articles of a predetermined size, comprising a container body, a detachable cover at least at one end face thereof, and partition wall means defining in said container a main compartment for the articles to be dispensed, said main compartment occupying substantially the lower part of the container, a funnel whose upper edge is sufficiently spaced from the cover to permit the articles to be conveyed from the main compartment into said funnel by a shaking action overcoming the level difference between the main compartment and the funnel and a downwardly directed passageway formed between the partition wall means and one of the outer walls of the container, said passageway connecting said funnel with a discharge opening and comprising a constricted portion only slightly exceeding the size of a single article and a rising portion at the end of the constricted portion, whereby articles conveyed into said passageway through said funnel will be checked at the rising portion and allowed to be discharged only singly, by further shaking action overcoming said rising portion.

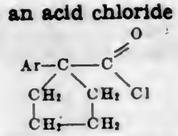
2,589,937

MANUFACTURE OF NEW BASIC ESTERS OF 1-ARYL-CYCLOPENTANE-1-MONOTHIOCARBOXYLIC ACIDS

Franz Häfliger, Henry Martin, and Rolf Denss, Basel, Switzerland, assignors to J. R. Geigy A.-G., Basel, Switzerland

No Drawing. Application May 17, 1948, Serial No. 27,604. In Switzerland May 23, 1947
9 Claims. (Cl. 260—455)

1. Process for the manufacture of compounds suitable as medicinal remedies, comprising bringing into contact an acid chloride of the formula



wherein Ar represents a mononuclear aromatic hydrocarbon radical with the equimolecular proportion of a basic mercaptan of the formula

$$HS—C_nH_{2n}—Am$$

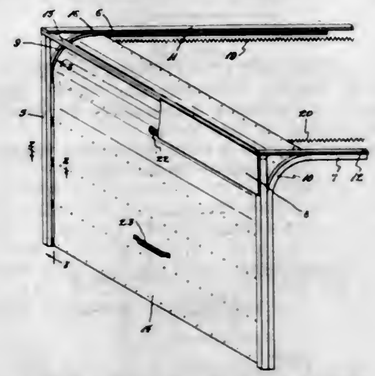
wherein Am represents the radical of a secondary amine containing from 2 to 5 carbon atoms selected from the group consisting of dialkylamino, piperidino, pyrrolidino and morpholino radicals and n represents an integer from 2 to 6, and separating the hydrochloride of the resulting base by filtration.

2,589,938

GARAGE DOOR

Raymond L. Hanrahan, Greenacres, Wash.

Application April 28, 1948, Serial No. 23,712
1 Claim. (Cl. 160—367)



A garage door construction comprising a pair of channel members having their open sides facing each other, said channel members each having a vertical portion the height of the door opening, a curved portion at the top of the vertical portion curving rearwardly and a straight portion extending rearwardly from the curved portion, a resilient metal sheet extending from channel member to channel member and at least as high as the vertical portions of the channels, said sheet extending into both channels, rigid members extending across the sheet at vertically spaced intervals and terminating adjacent the channel edges and guides on the sheet within the channels horizontally aligned with the rigid members.

2,589,939

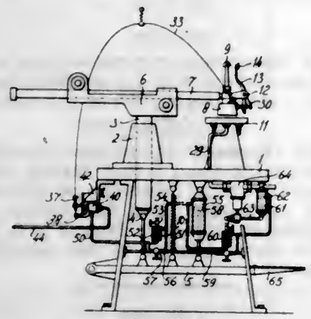
PRESSING OR IRONING MACHINE

Gerrit Hendrikus Haverkate, Almelo, Netherlands

Application August 10, 1949, Serial No. 109,437
In the Netherlands December 31, 1947
5 Claims. (Cl. 38—30)

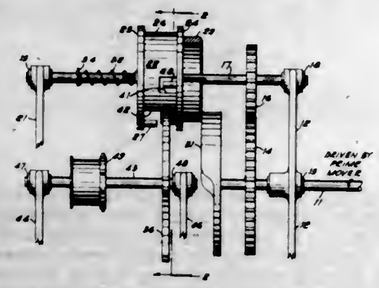
1. A pressing machine having a movable pressing member having a grip comprising in combination: a pressure cylinder; a piston slidably arranged in said cylinder and connected to the pressing member for applying a vertical force on the pressing member; means for exerting a return force on said piston; a first valve controlling the admission of a pressure fluid to said cylinder; a second valve leading to the atmosphere and connected to said first valve so as to open when said first valve is closed and vice versa; a non-return

valve having a casing and being arranged between said first valve and said cylinder; a tap in said casing leading to the atmosphere; a closable



by-pass bridging said non-return valve; and a member mounted on the pressing member in the vicinity of the grip, said member controlling said valves.

2,589,940
INTERMITTENT MOVEMENT
Arthur F. Hayek, Pleasantville, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application July 8, 1949, Serial No. 103,571
6 Claims. (Cl. 74—436)

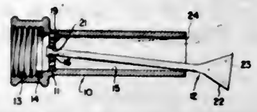


1. An intermittent movement comprising, a driven start wheel having no less than five and no more than eight equally-spaced radial slots, a constant-speed driving member having two driving elements spaced from each other both circumferentially and longitudinally for irregularly intermittently and alternately actuating said star wheel, and means for causing the alternate engagement of said two driving elements with said star wheel.

2,589,941
MOLDING COMPOSITIONS FROM CELLULOSE, FORMALDEHYDE, HYDROCARBON, AND ALKALI
Emil Hene, deceased, late of Stamford, Conn., by The Stamford Trust Company, Stamford, Conn.; Else Hene and Derek H. Hene, administrators, assignors to Usewood Corporation, New York, N. Y., a corporation of New York
No Drawing. Application August 21, 1951, Serial No. 242,978. In Great Britain January 3, 1947
23 Claims. (Cl. 260—9)

1. The process of preparing a curing and molding composition which consists essentially of mixing a porous cellulosic material selected from the group consisting of cellulose and cellulose-containing particles with a mixture of water, an alkali hydroxide selected from the group consisting of sodium hydroxide and potassium hydroxide, formaldehyde and a member of the group consisting of a hydrocarbon which is liquid and has a low vapor pressure at the reaction temperature when the composition is cured and a mixture of such a hydrocarbon and a phenolic substance selected from the group consisting of a phenol, cresol, and xylenol, and drying the mixture by gentle heating.

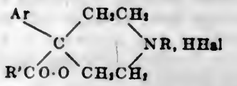
2,589,942
NOZZLE
John O. Hruby, Jr., Glendale, Calif.
Application March 8, 1949, Serial No. 80,287
6 Claims. (Cl. 299—126)



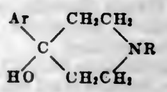
2. A spray producing device comprising a body having an opening therethrough, the inner end of the opening being adapted to receive fluid under pressure and the outer end of the opening being adapted to discharge the fluid, a stem arranged longitudinally in the opening to extend to the outer portion thereof, support means in the body supporting the stem at a point spaced inwardly from said outer end of the opening for lateral swinging about said point while inclined relative to the longitudinal axis of the body so as to lean against and roll around on the internal surface of the body adjacent its outer end, and means for imparting angular motion to the fluid flowing through said opening so that the flowing fluid swings the stem around said point to break up the stream of fluid issuing from the outer end of the opening.

2,589,943
4-ARYL-4-ACYL-OXY-PIPERIDINES
Kai Arne Jensen, Copenhagen, Denmark, assignor to Aktieselskabet "Ferrosan," Copenhagen, Denmark, a firm
No Drawing. Application February 27, 1948, Serial No. 11,841. In Denmark October 1, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires October 1, 1961
13 Claims. (Cl. 260—294.3)

1. Preparation of 4-aryl-4-acyloxy-piperidine hydrohalides of the general formula:

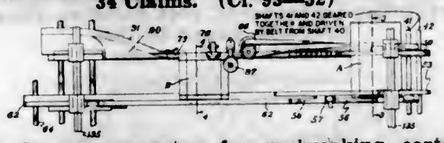


in which Ar is a monocyclic-aryl radical, R is an alkyl radical, Hal denotes halogen and R' is a radical selected from the group consisting of alkyl, phenyl and pyridyl radicals by reacting under anhydrous condition -4-monocyclic-aryl-hydroxy-piperidines of the general formula:



with a carboxylic acid acyl halide selected from the group consisting of fatty acid, benzoic acid and nicotinic acid halides.

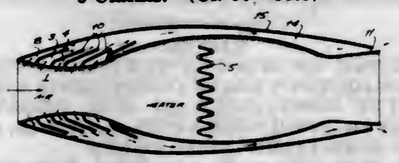
2,589,944
MACHINE FOR PREBREAKING, GLUING, FOLDING, DELIVERING, AND STACKING CREASED CARTON BLANKS
Harold S. Labombarde, Nashua, N. H., assignor to The International Paper Box Machine Company, Nashua, N. H., a corporation of New Hampshire
Application April 2, 1948, Serial No. 18,608
34 Claims. (Cl. 93—52)



1. In an apparatus for prebreaking carton blanks having a glue lap, a glue lap crease, a center crease, a mid-crease between the glue lap and center creases, and a mid-crease in the panel at the opposite side of the center crease, the combination of supporting and cooperating superposed carriers acting to move the blank therethrough, panel folder and panel opening means acting successively to prebreak the center crease and return the panel to open position, an ironing roll cooperating with a supporting carrier acting to iron the panel flat through 180° at the center crease as the panel is folded and a thin flat float member over which the panel is folded extending forward from the panel opener past the ironing roll above the lower carrier and recessed opposite the ironing roll to permit the ironing roll to iron the panel at the center crease directly against the lower carrier.

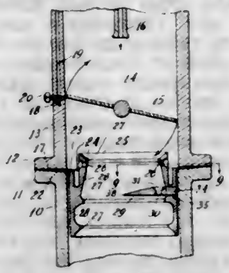
32. In an apparatus for prebreaking and folding carton blanks having a glue lap, a glue lap crease, a center crease, a mid-crease between the glue lap and center creases, and a mid-crease in the panel at the opposite side of the center crease, the combination of supporting carriers and superposed presser means cooperating therewith acting to grip and move the blank therethrough, glue lap crease prebreaking means at one side of the path of blank travel acting to fold flat through 180° the glue lap at its crease and then to open the glue lap, and center crease prebreaking means at the opposite side acting to fold the panel through 180° flat at the center crease and then to open the panel while the blank is moved gripped by a supporting carrier and a superposed presser means engaging the glue lap.

2,589,945
ATHODYD HAVING AIR PERMEABLE CONVERGING INTAKE SECTION FOR BOUNDARY LAYER CONTROLS
René Leduc, Toulouse, France
Application February 26, 1948, Serial No. 11,123
In France February 28, 1947
6 Claims. (Cl. 60—35.6)



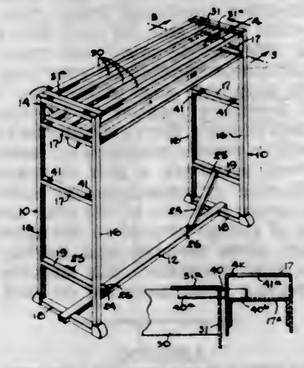
1. In a duct forming part of an airplane to be moved at a supersonic speed and extending with its axis in direction of movement of said airplane, in combination, a convergent internal surface portion decreasing the cross-sectional area of said duct in downstream direction, an air permeable porous wall portion forming at least part of said convergent internal surface portion of said duct along which a thickening of the boundary layer occurs during movement of said duct at supersonic speed; and means for causing passage of air through said air permeable porus wall portion out of said duct at least during movement of the plane at supersonic speed.

2,589,946
LIQUID FUEL ATOMIZER
William J. Linn, Pittsburgh, Pa.
Application April 1, 1949, Serial No. 84,820
6 Claims. (Cl. 48—180)



1. A liquid fuel atomizer for a fuel and air charging duct of an internal combustion engine comprising a tubular sleeve adapted to be disposed in the duct between the carburetor and the engine and at least one diffuser pin projecting inwardly from the interior of the tubular sleeve toward the center of the duct and terminating adjacent the axis of said duct, said pin having a passage therethrough intermediate its ends and substantially parallel to the duct wall whereby the fuel and air mixture adjacent the sleeve wall is directed through the pin with the creation of additional turbulence.

2,589,947
GARMENT RACK
Raymond A. Magnuson and Nels M. Christiansen, Chicago, Ill., assignors to R. A. Magnuson and A. Magnuson, copartners, doing business as Vogel-Peterson Co., Chicago, Ill.
Application July 12, 1949, Serial No. 104,214
1 Claim. (Cl. 211—148)



A knock-down garment rack comprising, in combination, a pair of end frames each having a pair of vertical bars with cross bars at the upper and lower ends thereof, a bottom rail having detachable connections at its opposite ends with the lower cross bars of said end frames engageable as an incident to downward movement of the rail relative to said cross bars, diagonal compression braces interposed between said end

frames and said bottom rail, an upper rigid tension member, and detachable connections joining the opposite ends of said member with the upper cross bars of the end frames to hold the end frames drawn together in normal positions with said braces under compression and acting on the bottom rail to maintain the connection between the ends of said rail and the end frames against disengagement, said end frames being capable of resilient yielding when drawn together beyond their normal positions for connection with said upper tension member, the second-mentioned connections including interengaging elements rigid with said upper tension member and said upper cross bars, respectively, and maintained in interlocking relation by the resiliency of said end frames when in their normal positions, one of said elements having a part disposed beneath an overlying portion of the other element when said frames are in their normal positions to prevent accidental movement of said tension member with respect to said end frames longitudinally of the latter by engagement of said one element with said overlying portion of said other element when the end frames and tension member are in their normal positions, said elements being disengageable upon moving the part of said one element from beneath said overlying portion of said other element as an incident to movement of said end frames closer together than when in their said normal positions.

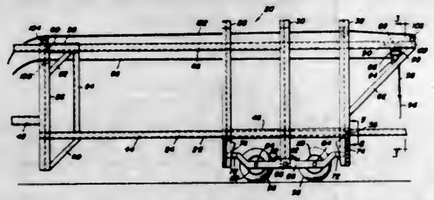
2,589,948

LOG OR PIPE TRANSPORTER

Henry Frank Marshall, Walla Walla, Wash.

Application December 16, 1948, Serial No. 65,616

1 Claim. (Cl. 214—65)



In a log or pipe carrier, the combination of an elongated frame comprising a pair of side members, an inverted U-shaped front cross member secured to the front ends of said side members, a draw bar attached to said front cross member, a pair of channels slidable on rear end portions of said side members, a set of inverted U-shaped rear cross members secured in tandem to said channels and slidable therewith on the side members, travelling wheels mounted at lower ends of the rear cross members, a pair of spaced parallel rails having intermediate portions thereof secured to upper portions of the rear cross members, a pair of guides secured to the upper portion of the front cross member and having forward portions of the respective rails slidable therein, and a travelling hoist mounted on said rails.

2,589,949

CONTROLLING DRILLING FLUID VISCOSITY

Victor G. Meadors, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 15, 1949, Serial No. 133,221

4 Claims. (Cl. 252—8.5)

1. A drilling fluid comprising an aqueous suspension of a clay and from about 0.1% to about 5% of a polyether having at least two ether linkages separated by at least two carbon atoms, said polyether being selected from the class consisting of dioxane and polyethylene glycols.

2,589,950

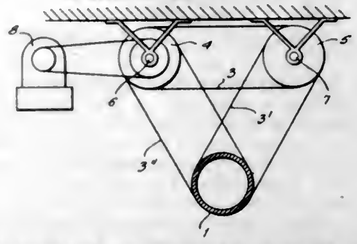
CENTRIFUGAL MOLDING MACHINE

Francisco Sanchez Medina, Luis Muntañola Tey, and Alberto Muntañola Tey, Barcelona, Spain

Application September 17, 1949, Serial No. 116,399

In France August 30, 1949

1 Claim. (Cl. 25—30)



An apparatus for manufacturing by centrifugal force pipes, and like hollow bodies of mouldable materials, comprising in combination, supporting means; bearing means supported by said supporting means; two parallel shafts rotatably mounted in said bearing means spaced from each other; means operatively connecting said two shafts for rotation at the same speed; driving means operatively connected to one of said two shafts for driving the same; a first set of pulleys fixedly mounted in spaced relationship on one of said shafts; a second set of pulleys fixedly mounted in spaced relationship on the other of said two shafts, the pulleys of said first set being staggered in relation to the pulleys of said second set; a first set of endless bands arranged on said first set of pulleys and driven thereby; and a second set of endless bands arranged on said second set of pulleys and driven thereby, said endless bands being adapted to form elongated loops when stretched by the weight of a tubular mould placed inside said endless bands, one end of the elongated loop formed by each endless band extending about a corresponding pulley, said endless bands being of such length that the other end of each elongated loop of each endless band is adapted to extend about the tubular mould arranged parallel to, below, and intermediate said two shafts and to support the same so that said tubular mould is supported by said two sets of endless bands extending at an angle to each other and tensions the same so as to be rotated by said endless bands driven by said pulleys, and is prevented from lateral movement in one direction by said first set of endless bands, and from lateral movement in an opposite direction by said second set of endless bands.

2,589,951

PRINTING OF WOOLEN TEXTILES WITH A NONAQUEOUS PASTE COMPRISING A DYESTUFF CONTAINING AN ACID GROUP, A WATER-INSOLUBLE VINYL POLYMER, AND AN ACID-LIBERATING AGENT

Erwin Meier, Neuewelt, near Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application June 20, 1949, Serial No. 100,296. In Switzerland July 2, 1948

9 Claims. (Cl. 8—62)

1. In a process for printing a textile structure of wool with a dyestuff containing an acid group,

the improvement which consists of applying the said dyestuff with the aid of a printing paste including a non-aqueous thickener containing a water-insoluble vinyl polymer and an acid liberating agent.

2,589,952

CONSTRUCTIONAL TOY ELEMENT

Robert Ernest Mercier, Paris, France

Application March 7, 1946, Serial No. 652,573

2 Claims. (Cl. 46—23)



1. In a construction toy including rigid tubular members having transverse perforations through their ends, a flat strip capable of bending into a curved form over its length, a plate slidably fitted over and around said flat strip, said plate having depending sides formed to encompass at least two sides of one or more of said tubular members, said depending sides having perforations therethrough to mate with the perforations in said tubular members for reception of retaining pins, and an unattached flat spring clip inserted between a face of said flat strip and said plate to resiliently bind said plate at any desired place to said flat strip.

2,589,953

DYEING OF CELLULOSIC TEXTILE MATERIALS BY FORMING LAKES OF BASIC DYES IN THE FIBERS

William Stuart Miller, Manchester, England, assignor to The Calico Printers' Association Limited, Manchester, England, a British company

No Drawing. Application July 3, 1950, Serial No. 172,010. In Great Britain June 24, 1943

Section 1, Public Law 690, August 8, 1946

Patent expires June 24, 1963

16 Claims. (Cl. 8—30)

1. In the dyeing of cellulosic textile fibers, the process which comprises preparing an aqueous mixed solution of a basic dyestuff and a lake-forming inorganic acid with sufficient alkali present to produce a pH within the range of from 5 to 12.5 and to prevent precipitation of the lake; the mixed solution being buffered sufficiently to maintain the pH within said range during application of the solution to the fiber; applying the mixed solution to the fiber to be dyed and acidifying with an acid at least as strong as formic acid to cause precipitation of the lake within the fiber.

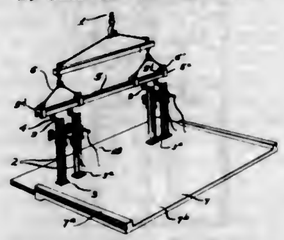
2,589,954

LIFTING APPARATUS

William P. Neil, Pasadena, Calif.

Application October 15, 1949, Serial No. 121,621

13 Claims. (Cl. 294—81)



1. A lifting apparatus for lifting a slab, comprising: a support having lifting means at one end and one side thereof, a bracket pivotally connected to the other end of the support and adapted to be detachably secured against a side of the slab at a point spaced from the edges of the slab, the bracket being positioned at the same side of the support as the lifting means, and a latch member pivotally mounted on the support below said lifting means and on an axis parallel to the pivotal axis of the bracket, said latch member having a latch portion located at the same side of the support as the bracket and adapted to overlie an edge of the slab.

2,589,955

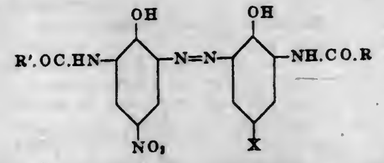
AZO DYESTUFFS

Reinhard Neier and Walter Wehrli, Basel, Switzerland, assignors to Sandoz Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application February 14, 1949, Serial No. 76,415. In Switzerland February 18, 1948

4 Claims. (Cl. 260—207)

1. The monoazo dyestuffs of the general formula



wherein X represents a member selected from the group consisting of alkyl radicals containing 1 to 6 C-atoms, cycloalkyl and phenyl radicals and wherein each of R and R' stands for a member selected from the group consisting of hydrogen and lower alkyl, lower alkoxy and mononuclear aryl radicals.

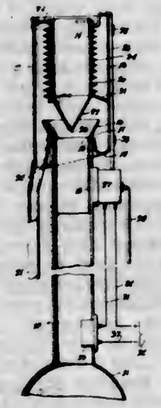
2,589,956

SMOKE SEPARATOR

Maxim Pantelieieff, New York, N. Y.

Application October 3, 1947, Serial No. 777,611

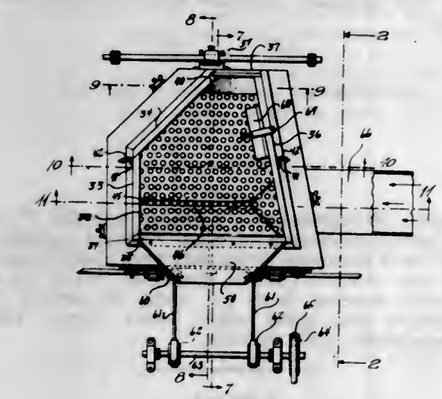
3 Claims. (Cl. 261—118)



1. A device for eliminating solid particles from smoke passing through a chimney comprising, in combination, an outer shell adapted to be carried at the top of the chimney, a funnel portion of said shell disposed within said chimney,

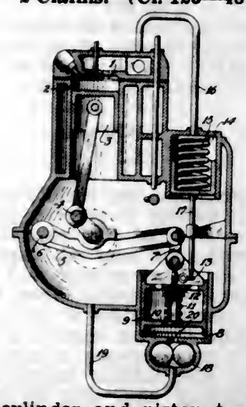
said funnel portion being concentric with said outer shell, an inner cylindrical shell having a conical point rigidly secured to said outer shell, said conical point being concentric with said outer shell and penetrating within said funnel portion so as to direct the smoke in an annular path between the inner and outer shells, a helical conduit coiled around a substantial length of said inner shell, nozzles each with a restricted throat portion and expanding rim on said conduit adapted for discharging a fine liquid spray under high pressure across the path of said smoke, whereby the solid particles are separated therefrom, and a basin in said outer shell for catching the discharged liquid and solid particles.

2,589,957
APPARATUS FOR SEPARATING PRODUCTS
Lawrence Pearman and Fred Pearman, Chula, Ga.
Application February 5, 1948, Serial No. 6,428
7 Claims. (Cl. 209—28)



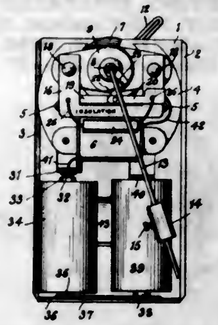
2. In an apparatus for separating products of different sizes and quality, a housing having an opening in the upper end thereof, a foraminous member having a plurality of upstanding side walls supported by the housing above the opening therein, one of the side walls of said foraminous member being of lesser height than the remaining side walls, the foraminous member having an enlarged opening therein at a point opposite the side wall of lesser height, a chute located beneath said enlarged opening and communicating with an outlet opening in the housing, a transversely and longitudinally inclined grid-like member disposed within the housing beneath said foraminous member in communication with a second outlet opening in the housing, means for directing air into the housing for passing upwardly through the grid-like member and foraminous member, additional means on said housing to maintain a reservoir of air along the edges of said foraminous member, and mechanically actuated means for imparting rocking movement to the housing whereby the products introduced onto the foraminous member have a counterclockwise motion imparted thereto thereby eliminating the undesirable products over the side wall of lesser height, the products of a size sufficient to pass through the foraminous member being discharged through the outlet opening in communication with the grid-like member and the remaining products being collected at the outlet opening in communication with the chute disposed below the elongated opening in the foraminous member.

2,589,958
VARIABLE COMPRESSION RATIO INTERNAL-COMBUSTION ENGINE
Georges Petit, Montreuil L'Argille, France
Application January 13, 1949, Serial No. 70,758
In France January 28, 1948
2 Claims. (Cl. 123—48)



1. In a cylinder and piston type of internal combustion engine, an intake manifold, a crankshaft, a mounting to vary the position of the crankshaft relative to the cylinder block, a fluid jack to actuate said mounting, means operatively connecting said fluid jack with said mounting, a vacuum-responsive device operative from the intake manifold to control the operation of the fluid jack, a system for supplying fluid to the jack, the vacuum-responsive device communicating with the intake manifold and being provided with suction-operable means, the fluid jack having a plunger provided with a valve opening and closing the fluid supply circuit, said plunger being connected to said mounting for elevating and lowering the crankshaft, said valve being normally closed by means of resilient means, a lever fulcrumed on said plunger to control, when actuated, said valve, said suction-operable means actuating said lever, said crankshaft, mounting, fluid jack, means connecting the fluid jack and mounting, and vacuum-responsive device being enclosed within the walls of the cylinder block and the crankcase.

2,589,959
ELECTRIC MOTOR
Frederick A. Quick, Bellerose, N. Y., assignor to Gregory Motors, Inc., Brooklyn, N. Y., a corporation of New York
Application April 18, 1950, Serial No. 156,656
4 Claims. (Cl. 172—126)



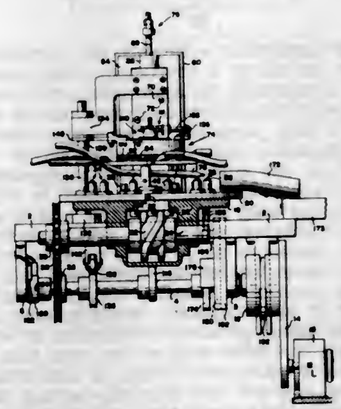
1. A power unit for animated displays comprising a base plate, a motor attached to a face

of the same, said motor including a rotor having a shaft, a bracket carried by the motor, switch leaves carried by the bracket, said leaves having contact points, a switch actuator carried by the motor shaft and operative upon one of the switch leaves when said shaft is swung in one direction to close contact between the points and operative upon said leaf when swung in an opposite direction to separate the points, flanges formed on the plate for supporting batteries, connections between said batteries and the motor and switch, and means carried by the plate for supporting the same and attached motor and batteries from a display sheet.

2,589,960
RECOVERY OF OLEFIN HYDROCARBONS
Gardner C. Ray, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application November 7, 1947, Serial No. 784,769
19 Claims. (Cl. 260—677)

1. The process for separating olefins from admixture with saturated hydrocarbons which comprises contacting the hydrocarbon mixture containing the olefin and the saturated hydrocarbon with a reagent comprising a cuprous salt in orthophenetidine.

2,589,961
METHOD FOR MAKING ELECTRODE ASSEMBLIES
Price L. Reed, Royersford, Pa., assignor to Superior Tube Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 17, 1951, Serial No. 226,856
6 Claims. (Cl. 219—4)



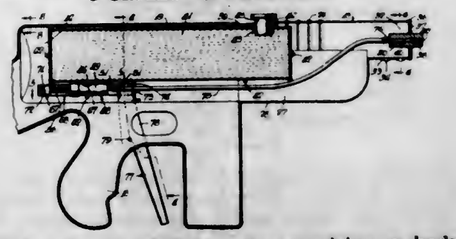
1. Apparatus for welding cathode assemblies each including a tube, an element mounted on the tube and a member to be welded to the tube, said apparatus comprising a rotatable platform, a plurality of cathode assembly mounting means mounted on the platform, the mounting means each including an elongated support on which the tube and element mounted thereon and said member may be mounted, means mounting welding electrodes movable transversely to the axis of said support, gauging means for engaging the element and the member to fix their axial relationship, means for intermittently rotating the platform to bring the cathode assembly mounting means to rest successively adjacent to the welding electrode mounting means, means for moving the gauging means and the welding electrodes into engagement with a cathode assembly positioned on the adjacent cathode assembly supporting means, and means for passing welding current through the electrodes and the cathode assembly engaged thereby to effect welding of the cathode assembly member to the tube in proper axial relationship as established by the gauging means.

2,589,962
ONE-PIECE RESILIENT SOCKET
Daniel I. Reiter, New York, N. Y.
Original application March 23, 1946, Serial No. 656,681. Divided and this application May 20, 1950, Serial No. 163,218
8 Claims. (Cl. 24—216)



5. A one-piece socket having a stud-receiving compartment open and slotted at its lower end and the remainder of the compartment being imperforate and rigid, said compartment having an imperforate closing wall across its top and having a pair of upright cylindrical walls in contact with each other along the entire adjacent areas thereof to provide two contacting thicknesses of material in the compartment at said walls, said walls rigidifying the compartment except at said lower slotted end and acting as a unit under the stresses put thereon during a laundering operation upon a garment to which the socket is attached, said walls terminating at the lower ends thereof in an integral convex bend subtending an angle of 180°, the slotted marginal edge portions of the walls being in contact with each other and extending at an angle to the axis of the compartment and inwardly away from the walls and constituting an inwardly overhanging stud-neck-engaging bead adjacent the rims of said walls, a pair of contacting bends, one in each wall intermediate the head and the tops of the respective upright walls, each bend of the pair subtending the same angle and less than 180°, and an annular prong-bending portion having a tapering wall extending downwardly and outwardly from and in outward spaced relation to the outer wall, the top of said inner wall and said closing wall being above the top of the tapering wall.

2,589,963
WATER GUN
Irving Richardson, Newark, N. J.
Application April 16, 1948, Serial No. 21,377
5 Claims. (Cl. 222—79)



1. A toy gun of the type comprising a body having a chamber therein, a barrel affixed to said body and extending longitudinally thereof, a water tank mounted in said chamber and extending longitudinally thereof, a pump in said chamber, in communication with said water

tank and having a piston rod, resilient means normally retaining said piston rod in pump filling position, actuating means for said piston rod comprising a substantially rectangular frame affixed at one end to said piston rod, extending longitudinally of said pump and straddling the latter, and a lever operatively connected to the free end of said rectangular frame, pivoted to said body and extending from said chamber, and a discharge nozzle affixed in said barrel at the front end thereof and in communication with said pump.

2,589,964

MANUFACTURE OF TITANIUM PIGMENTS

James Thomson Richmond and Raymond James Wigginton, Luton, England, assignors to National Titanium Pigments Limited, Luton, England

No Drawing. Application August 11, 1947, Serial No. 768,062. In Great Britain August 16, 1946
9 Claims. (Cl. 23—202)

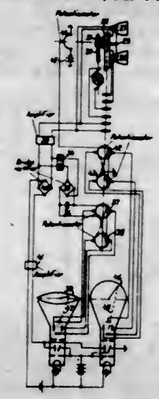
1. A process for the manufacture of a rutile titanium dioxide pigment, which comprises preparing a nucleating liquid containing nuclei of colloidal dimensions by dissolving a titanate of a metal selected from the group consisting of sodium, potassium, zinc and magnesium in a monobasic inorganic acid to produce a solution having a pH value below 1.5, diluting the resulting solution until it has a titanium content of 5–80 grams per litre (calculated as TiO_2) if its titanium content is not already within that range, and heating the solution at 50–100° C. for a period of 10 minutes to 2 hours to develop the colloidal nuclei while avoiding the precipitation of titanium dioxide from the solution, and thereafter hydrolyzing a titanium sulphate solution in the presence of the nucleating liquid so obtained, and calcining the resulting precipitate.

2,589,965

SYSTEM FOR LOCATING, INDICATING, AND/OR FOLLOWING OBJECTS IN SPACE

Helge Fabian Rost, Djursholm, Karl Harry Thunell, Nockeby, Sten Daniel Vigren, Stockholm, and Per Harry Elias Claesson, Jakobsberg, Sweden

Application June 7, 1946, Serial No. 674,972
In Sweden January 10, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires January 10, 1960
14 Claims. (Cl. 343—7)



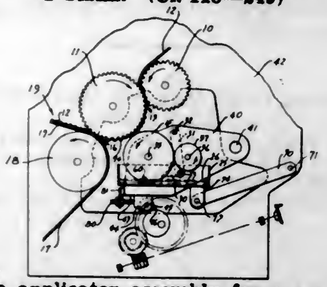
1. A scanning device for locating a target comprising directional antenna means for the transmission of radio energy in a certain direction and for the reception of reflected energy from about the same orientation as the transmitted radio energy, a support, means to rotate automatically said antenna means on said support about a first axis, means to rotate said antenna means automatically at a predetermined rate about a second axis perpendicular to said first axis, means alternatingly and successively to direct said reception antenna means into opposite sides of a reference plane passing through either of said first or second axis in order to receive energy from discrete and predetermined zones opposed in pairs on opposite sides of said reference plane and indicating means coupled to said antennas means and adapted successively to indicate on which side of said reference plane a target is substantially located.

2,589,966

ADHESIVE APPLICATOR FOR CORRUGATING MACHINES

Gabriel Nicholas Rullo, New York, N. Y., assignor to S & S Corrugated Paper Machinery Co., Inc., Brooklyn, N. Y., a corporation of New York

Application January 15, 1948, Serial No. 2,386
1 Claim. (Cl. 118—249)



A glue applicator assembly for a corrugating machine including a corrugating roll; said applicator comprising an applicating roll; an open top adhesive container; said applicating roll rotating in said container; the upper portion of said applicating roll being adapted to engage material on the surface of the corrugating roll to which adhesive is to be applied; a rotatable mounting for said applicator roll and a support for said rotatable mounting; said support being pivotally mounted at a point remote from the rotatable mounting of the applicator roll thereon; said container being pivotally mounted at one end of said support; another end of said container being pivotally connected to one end of a lever; the other end of the lever being connected to a stationary pivot; a rotatable cam, the other end of said support resting on said cam; apparatus for rotating said cam and moving said support about its pivot to bring the applicator roll radially toward and away from the corrugating roll at the will of the operator and independently of the position of the corrugating roll, the movement of the cam and the support moving the container simultaneously with the applicator roll, the container being maintained at the same angle to the remainder of the machine at all times.

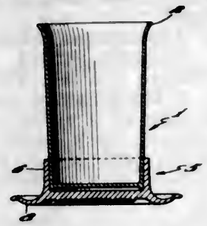
2,589,967

DRINKING CUP

Lester T. Sawyer, Leominster, Mass.

Application October 12, 1949, Serial No. 120,907
1 Claim. (Cl. 65—13)

A child's drinking cup comprising a cup member formed of resilient, flexible polyethylene, the lower part of which has a taper capable of undergoing a slight radial compression, and a base member of relatively rigid plastic material having an upstanding central annular flange for receiving and radially compressing the tapered



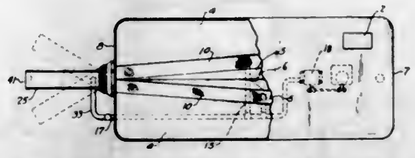
part of said cup member, the cup member being releasable by squeezing its side wall, and a peripheral flange of arcuate cross-section projecting from said base member so as to provide a combination drip receiver and stabilizing element.

2,589,968

SELF-UNLOADING VEHICLE BODY

Henry Ripley Schemm, Detroit, Mich., assignor to Huron Portland Cement Company, Detroit, Mich., a corporation of Michigan

Application December 23, 1946, Serial No. 717,913
7 Claims. (Cl. 214—83.28)



1. In a vehicle adapted to receive and transport pulverulent material, a discharge outlet in said vehicle, a porous wall in the bottom of said vehicle, an air chamber beneath said porous wall, said porous wall being of woven fabric and inclined downwardly toward said discharge outlet at an angle at least equal to the angle of repose of said material when aerated, a chute connected to the discharge outlet for conveying pulverulent material from the vehicle, the chute being movable to a position in which the conveying surface thereof is inclined at an angle at least equal to the angle of repose of said material when aerated, substantially the entire length and width of the conveying surface of the chute being a porous woven fabric wall, an air chamber extending beneath said latter porous wall, and means for causing a gaseous medium to flow into said air chambers and through said porous walls in the vehicle and chute to aerate pulverulent material overlying them, whereby such overlying material flows along said porous walls.

2,589,969

PRODUCTION OF FULVENE HYDROCARBONS

Henry G. Schutze and Edward F. Wadley, Baytown, Tex., assignors, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application January 7, 1950, Serial No. 137,476
15 Claims. (Cl. 260—666)

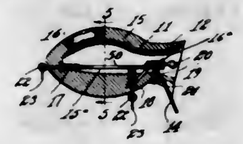
1. A method for producing fulvene hydrocarbons which comprises contacting a mixture of a hydrocarbon selected from the group consisting of hydrocarbons containing at least one methylene group allyl to two double bonds and having from 5 to 9 carbon atoms in the molecule and polymers thereof which decompose to form said hydrocarbons and a carbonyl compound having from 2 to 5 carbon atoms in the molecule in the vapor phase at a temperature in the range from 400° to 900° F. with a catalyst selected from the group consisting of aluminum oxide, magnesium oxide, silicon oxide, and mixtures thereof to form a product comprising a fulvene hydrocarbon.

2,589,970

WHISTLING ARTIFICIAL FISH LURE

Louie W. Shahan, Talladega, Ala.

Application April 29, 1946, Serial No. 665,824
1 Claim. (Cl. 43—42.06)



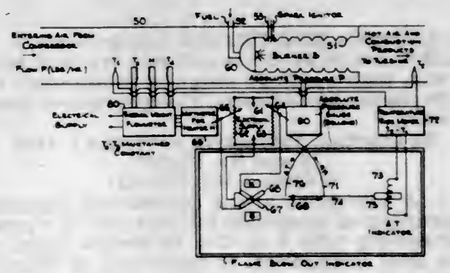
A fishing lure comprising a body having longitudinal cavital chamber portions therein and said chamber opening at one end thereof, the portion of said chamber adjacent the end of the body opposite to the end in which the chamber opens having spaced walls, each of said walls having apertures therein, the apertures being of such size that air entrapped between the walls when forced therefrom by air pressure of the chamber will produce a whistling sound, means extending longitudinally relative to the chamber constituting a support, and one or more fishing hooks attached to said support, said support having a fishing line attaching eye carried by one end thereof.

2,589,971

APPARATUS FOR DETERMINING FLAME BLOWOUT IN JET ENGINES

Charles W. Skarstrom, Hazlet, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application June 16, 1949, Serial No. 99,462
2 Claims. (Cl. 73—119)



1. Apparatus for determining flame blow-out in a jet engine which comprises a thermal weight flow meter to determine the weight of the incoming air per unit of time, a temperature rise meter to determine the temperature differential across the combustor between the incoming air and the hot combustion gases, an absolute pressure gauge whereby the static pressure of the combustor is measured, electrical means for ra-

tioning the signal received from the thermal weight flow meter and the absolute pressure gauge, an indicator the position of which on a scaled face is determined by said ratio means, a second indicator, the position of which on said scaled face is determined by the signal received from said temperature rise meter, said indicators being so positioned as to intersect on said face, said face being empirically scaled in a manner to sharply define the regions of flame blow-out and sustained flame operation, whereby said indicator means may be caused to intersect in the region of said scaled face of sustained flange.

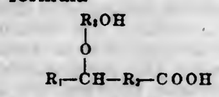
2,589,972
WEAVING SHUTTLE CONSTRUCTION
Hermann Slowak, Montevideo, Uruguay
Application July 1, 1948, Serial No. 36,523
In Switzerland July 12, 1947
3 Claims. (Cl. 139—13)



1. In a circular weaving loom of the disk or plate type, a horizontal supporting annular disk or plate, means for guiding the movement of weaving shuttles on said disk or plate, said means comprising two concentric horizontally spaced circular rows of vertical pins on said disk or plate, a peripherally-grooved guide roller mounted for rotation on each vertical pin, the grooves of said several guide rollers being co-planar, and said shuttles being provided with a pair of spaced co-planar arcuate runners adapted to coact with the grooves of said rollers, whereby said shuttles are retained in operative position on said disk or plate and the movement of the shuttles is guided by said rollers, said guide rollers being so disposed relative to each other and to the runners that at least two pairs of guide rollers are disposed between the runners of each shuttle, each pair comprising a roller of the inside circular row and an opposed roller of the outside circular row.

2,589,973
LUBRICATING GREASE COMPOSITION
Paul V. Smith, Jr., Westfield, and Arnold J. Morway, Rahway, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 1, 1949, Serial No. 124,942
19 Claims. (Cl. 252—41)

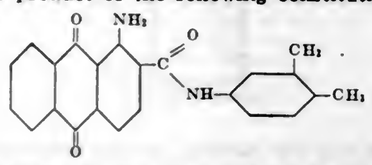
1. A lubricating grease composition consisting essentially of lubricating oil thickened to a grease consistency with 3 to 40% by weight, based on the total composition, of metal soap of aliphatic carboxylic acid, said metal soap comprising at least one-third part of a soap of an acid having the general formula



wherein R_1 and R_2 are alkyl groups of 3 to 12 carbon atoms each and R_3 is an alkyl group of 2 to 6 carbon atoms.

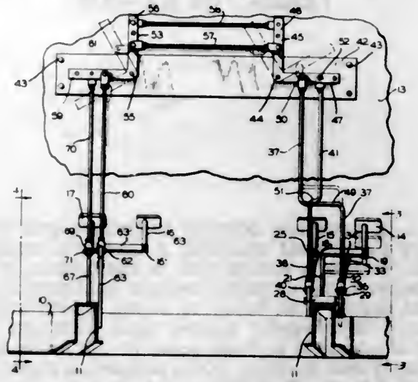
2,589,974
1-AMINO-2-ANTHRAQUINONE CARBO-3',4'-XYLIDE
Nicholas W. Solonen and David I. Randall, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 26, 1950, Serial No. 202,798
1 Claim. (Cl. 260—377)

The product of the following constitution



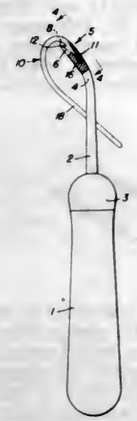
being a red pigment having exceptional fastness to light properties.

2,589,975
DUAL CONTROL CLUTCH AND BRAKE MECHANISM FOR MOTOR VEHICLES
Robert B. Sprinkel, Takoma Park, Md., Haven D. Umstott, Washington, D. C., and Harold E. Knight, Jr., Arlington, Va.
Application September 20, 1950, Serial No. 185,806
2 Claims. (Cl. 74—479)



1. In combination with a chassis frame and the fire wall of a motor vehicle, a dual control pedal assembly including a main clutch pedal and a main brake pedal pivotally connected to one side of the chassis frame adjacent the seat of the operator of the vehicle, an auxiliary clutch pedal and an auxiliary brake pedal pivotally connected to the opposite side of the chassis frame so as to be operable by the foot of the occupant of the front seat adjacent the driver, means operatively connecting the main clutch pedal with the auxiliary clutch pedal, means operatively connecting the main brake pedal with the auxiliary brake pedal, said means including a fixed member transversely mounted on one side of the chassis frame, a pair of spaced independently operable levers pivotally connected to said fixed member, means operatively connecting one of said levers to said main clutch pedal, means operatively connecting the other lever to said main brake pedal, a main pair of bell crank levers pivotally connected to the fire wall, each of said levers having a rod extending upwardly therefrom and connected to an arm of one of said bell crank levers for actuating the same upon operation of either the main brake pedal or the main clutch pedal, an auxiliary pair of bell crank levers transversely spaced from the main bell crank levers and pivotally connected to said fire wall, means operatively connecting the main bell crank levers to the auxiliary bell crank levers, means operatively connecting the auxiliary clutch pedal to one of the auxiliary bell crank levers, and means operatively connecting the auxiliary brake pedal to the other auxiliary bell crank lever.

2,589,976
FISHHOOK REMOVER
Ray N. Steele, Cedar Rapids, Iowa
Application April 7, 1949, Serial No. 85,951
11 Claims. (Cl. 43—53.5)



1. A fishhook remover comprising an elongated member having a head at one end with a pair of side walls spaced apart to receive a barbed end of a fishhook therebetween, an upper wall joining said side walls and terminating short of the outer ends of said side walls, and a shouldered portion at the inner ends of said side walls, there being an opening in the head extending inwardly from the shouldered portion, said opening being adapted to receive the point of said barbed end when a portion of said barb engages said shouldered portion, said shoulder portion having a tapered recess adjacent the mouth of said opening to receive the edge of the hook at the barbed side thereof.

2,589,977
WATER GUN
Jack Stelzer, New York, N. Y.
Application November 18, 1949, Serial No. 128,038
3 Claims. (Cl. 222—79)



1. A water gun comprising, a two-part gun body, one of said parts forming a barrel part and the other forming the stock, an air pump carried by the barrel part, a liquid-holding tank also carried by said barrel part, a conduit establishing communication between the pump and the tank whereby operation of the pump will force air under pressure into the tank, pump-operating means carried by the stock part of the gun body and caused to operate the pump when one part of the body is moved in a direction away from the other part of the gun body, an outlet pipe leading out of the forward end of the gun body, a valve for controlling the flow of liquid from said tank to said pipe, and trigger means carried by the stock part of the gun body for opening said valve to cause a stream of liquid to be ejected out of the outlet tube.

2,589,978
LYSERGYL AND ISOLYSERGYL GLYCINES
Arthur Stoll, Albert Hofmann, Ernst Jucker, Theodor Petrzilka, Jürg Rutschmann, and Franz Troxler, Basel, Switzerland, assignors to Sandoz Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application December 13, 1948, Serial No. 65,062. In Switzerland September 17, 1948
6 Claims. (Cl. 260—285.5)

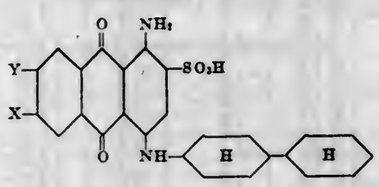
1. A compound of the formula R.CO.NH.R_1 wherein R.CO. stands for a radical of an acid selected from the group consisting of lysergic and dihydrolysergic acids and their iso forms, and —NH.R_1 stands for a member selected from the group consisting of the radicals of glycine, glycinamide and glycine lower alkyl esters.

2,589,979
SOLVENTS FOR GASOLINE INHIBITORS
Barney R. Strickland, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 1, 1949, Serial No. 113,663
2 Claims. (Cl. 44—63)

1. A composition comprising a motor gasoline, a N-N'-di-secondary-butyl p-phenylenediamine and para-dioxan, said N-N'-di-secondary-butyl p-phenylenediamine being present in proportions of about 0.1 to 4 pounds per 5000 gallons, and said para-dioxan being present in proportions of about 1 to 4 times the amount of N-N'-di-secondary-butyl p-phenylenediamine.

2,589,980
1-AMINO 4-BICYCLOHEXYLAMINO ANTHRAQUINONE 2-SULFONIC ACIDS
Samuel von Allmen and Hans Eggenberger, Basel, Switzerland, assignors to Sandoz A. G., Basel, Switzerland, a Swiss firm
No Drawing. Application May 23, 1949, Serial No. 94,935. In Switzerland January 28, 1948
4 Claims. (Cl. 260—374)

1. An acid anthraquinone dyestuff of the formula



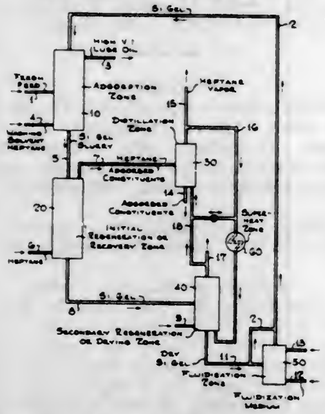
wherein X stands for a member selected from the group consisting of H, Cl and Br, and wherein Y stands for a member selected from the group consisting of Cl and Br, when X denotes H, and for a member selected from the group consisting of H, Cl and Br, when X denotes Cl or Br.

2,589,981

DRYING OF SOLID ADSORBENTS

Robert L. Weeks, Union, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application July 16, 1948, Serial No. 39,005
2 Claims. (Cl. 260—674)



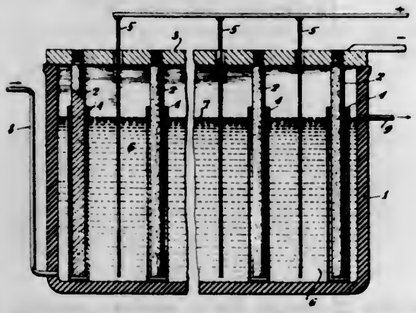
1. An improved process for the removal of aromatic type compounds from petroleum oils boiling in the gas oil and lubricating oil boiling ranges, which comprises treating the oil in a primary stage with silica gel to remove the more aromatic type compounds from the oil, removing the silica gel from said primary stage and contacting the same in a secondary stage with a liquid paraffin hydrocarbon solvent having from 4 to 8 carbon atoms in the molecule at a temperature just slightly below the boiling point of the solvent wherein the adsorbed aromatics are removed from the silica gel, removing the silica gel from said secondary stage and contacting the same in a tertiary stage with superheated vapors of the same paraffin hydrocarbon solvent.

2,589,982

ELECTROLYTIC PRODUCTION OF AMMONIUM PERSULFATE SOLUTIONS

William Stanley Wood, Harpenden, and George Clennett and Hubert Leslie Hulland, Luton, England, assignors to La Porte Chemicals Limited, Luton, England, a British company

Application May 8, 1948, Serial No. 25,984
In Great Britain May 12, 1947
2 Claims. (Cl. 204—82)



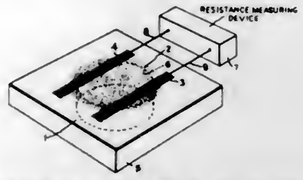
1. In the manufacture of solutions of ammonium persulphate by electrolysis carried on in a diaphragm cell wherein a substantially stationary body of catholyte is maintained on the cathode side of said diaphragm with the diaphragm spaced from said cathode a substantial distance but not exceeding 3 mm., the improvement which comprises subjecting an acid solution of ammonium sulphate as anolyte to electrolysis in said cell while causing a leakage of said anolyte through said diaphragm to the catholyte side thereof sufficient to maintain the catholyte acid in reaction during the course of the electrolysis, and maintaining a current density of between 3 and 12 amps. per sq. dm. of the immersed surface of said cathode.

2,589,983

ELECTRICAL INDICATOR OF MECHANICAL EXPANSION

Katharine B. Blodgett and Vincent J. Schaefer, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application November 5, 1947, Serial No. 784,289
16 Claims. (Cl. 73—88.5)



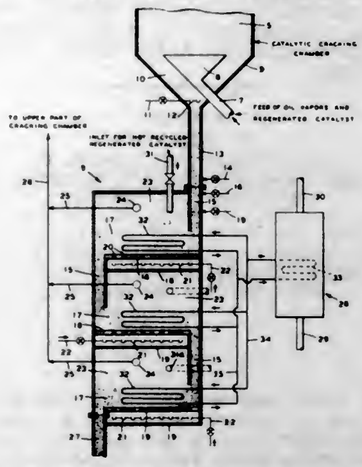
1. An electrical indicator of mechanical movement comprising an expandible and contractible member having a substantially mono-particle coating of conductive particles closely spaced with respect to each other, affixed to said member and having a resistance variable with the expansion and contraction of said member.

2,589,984

CATALYST STRIPPING OF FOULED CATALYSTS EMPLOYED IN HYDROCARBON CONVERSION PROCESSES

Walter H. Borcherding, San Francisco, Calif., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

Application July 1, 1947, Serial No. 758,381
4 Claims. (Cl. 196—52)



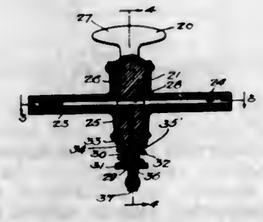
1. In a catalytic conversion process wherein fluidized solids are contacted with hydrocarbon vapors in a conversion zone under conditions for effecting conversion and the accumulation of carbonaceous deposits on said solids, are passed through a stripping zone for the removal of vaporizable hydrocarbon material, are regenerated in a regeneration zone to effect combustion of said carbonaceous deposits thereby increasing the sensible heat contained in said solids and are finally returned to the conversion zone for supplying heat thereto and for effecting further conversion, the improved method of operation which comprises introducing one stream of hot regenerated catalyst from said regeneration zone to said conversion zone, introducing another stream of hot regenerated catalyst directly from said regeneration zone to said stripping zone, intermingling catalyst from said last-named stream with catalyst from the conversion zone in the upper part of said stripping zone, stripping the intermingled catalyst in said stripping zone and returning the intermingled stripped catalyst from the base of the stripping zone to the regeneration zone.

2,589,985

STOPCOCK RETAINING DEVICE

George Borneman, Millville, N. J., assignor to L. G. Nester Company, Incorporated, Millville, N. J., a corporation of New Jersey

Application November 3, 1948, Serial No. 58,048
1 Claim. (Cl. 251—112)



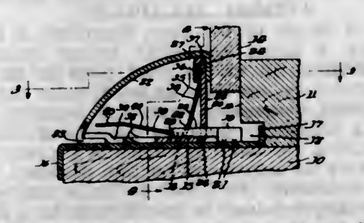
In a stop cock, a tapering glass cock socket having tubular connections thereto, a tapering glass cock plug which has a handle and a bore in one position communicating with the tubular connections, and which fits in the socket and extends therefrom at the tapered portion opposite to the handle, a threaded stem cemented to the plug and extending axially therefrom beyond the tapered portion, a spring surrounding the stem, engaging the socket at one end of the spring and guided internally by the end of the taper of the plug, and a nut on the stem beyond the spring engaging the other end of the spring.

2,589,986

STORE FRONT PANE FASTENER

John J. Bosshard, Harvey, Ill., assignor to Brasco Manufacturing Company, Harvey, Ill., a corporation of Delaware

Application July 10, 1946, Serial No. 682,577
3 Claims. (Cl. 20—56.4)



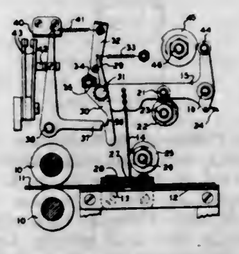
1. Store front construction comprising in combination a sill, a movable outer glass pane section, an inner glass pane supporting member, a glass pane, an anchor member having a wall section with an opening therein and a base portion extending at an angle to the said wall portion, a plug on the said sill extending toward the anchor member in alignment with the said opening in the wall section thereof, and a spring locking member mounted in said outer glass pane section having an opening therein forming an edge portion in slightly offset relation to the opening in the said anchor member, the said edge portion of the locking member being in frictional engagement with the said plug when in locked positions and having leg portions thereon, a web connecting the said leg portions and means on the base portion of the anchor member for engagement with the said web whereby the said locking member is held in out of engaged position with the said plug.

2,589,987

SENSING MECHANISM

Karl J. Braun, Glenbrook, and Frederick Miller, Jr., Springdale, Conn., assignors to Remington Rand Inc., New York, N. Y., a corporation of Delaware

Application September 15, 1950, Serial No. 184,916
19 Claims. (Cl. 235—61.11)



6. A device for sensing perforations arranged in a column in a record card being fed past the device with a continuous movement, which comprises a stiff wire extending toward the path of the card, a pivoted member to which said wire is secured, an eccentric engaging said pivoted member and timed to reciprocate said wire into and out of each perforation in said column, a cam driven at the same speed as said eccentric and engaging said wire to move the latter in the opposite direction to the card before the wire enters each perforation, and to allow said wire to advance with each perforation while engaged therein; an actuating lever pivoted to said member, an impulse transmitting member engaged by said actuating lever when the wire is moved into a perforation and actuated by said lever as the wire is moved out of the perforation, and a trip to disengage said lever from said transmitting member after the wire is moved out of the perforation.

2,589,988

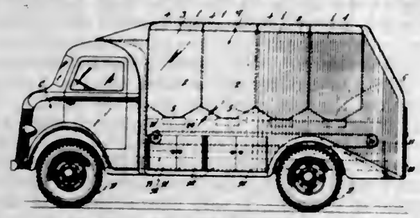
COAL DELIVERY TRUCK AND DEPOSITING CONVEYER

Samuel J. Bruno, Belleville, N. J., assignor to The Thomas Wright Co., Inc., Jersey City, N. J., a corporation of New Jersey

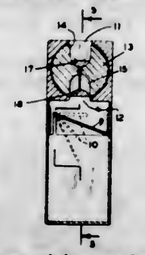
Application October 2, 1947, Serial No. 777,473
6 Claims. (Cl. 214—83)

1. A conveyor chute section comprising a frame, belt pulleys journaled therein one of which has a shaft with one end projecting from said frame, an endless belt on said pulleys, a worm gear on said end of said shaft, a drive shaft journaled on said frame, a worm on said drive

shaft meshing with said worm gear, and a flexible shaft section having means at its ends for separable operative connection to one end of said drive shaft and to a driving shaft respectively.



2,589,989
ASH TRAY
Earle M. Brunsvold, Glen Lake, Minn.
Application March 1, 1950, Serial No. 147,029
1 Claim. (Cl. 220—20.5)



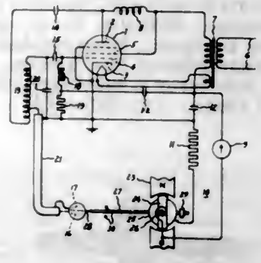
An ash tray comprising a hollow casing, an elongated rotary ash-receiving member horizontally journaled in the upper portion of said casing and having at least one pair of grooves longitudinally formed therein and extending at least substantially the full length thereof, the grooves being diametrically opposed one to the other, a weighted shiftable element mounted in each of said grooves and extending substantially the full length thereof with freedom for shifting movement transversely of the rotary ash-receiving member, means for interconnecting the shiftable elements in the respective grooves whereby the weight of both elements will urge the upper element into retracted seated position and the lower element into outwardly projected ejecting position, and means for rotating said rotary member on its longitudinally horizontally disposed axis.

2,589,990
SIDE SLIPPING WEFT DETECTOR FOR LOOMS
Leon A. Carron, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application December 2, 1950, Serial No. 198,860
11 Claims. (Cl. 139—271)



1. In a side slipping detector mechanism for a weft bobbin, a base, a detector lever pivoted on the base, a detector finger slidable on the lever when engaging a bobbin to detect the condition of weft thereon and causing angular motion of the lever when engaging a bobbin depleted of weft, provided the lever is free to turn relative to the base, lock means normally in position to prevent angular motion of the lever relative to the base but moved to non-locking position relative to the lever by the finger when the latter slides on the base, and means indicating weft exhaustion when the lever moves angularly relative to the base.

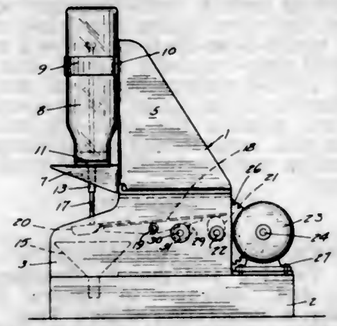
2,589,991
CONSTANT CURRENT REGULATOR
Earl W. Clark, East Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application November 4, 1950, Serial No. 194,101
2 Claims. (Cl. 321—10)



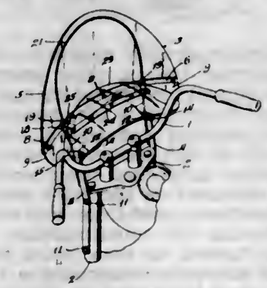
1. Constant current regulating apparatus comprising an electric valve oscillator having input and output circuits, an inductance comprising two series connected closely spaced coils associated with said input circuit, a metallic vane movably related with said coils to vary the inductive relation between them and thereby the oscillating condition of said oscillator, a load supplied by the output circuit of said oscillator including a current responsive instrument having movable armature means secured to and for moving said vane, said instrument when energized tending to move said vane in a direction to increase oscillation and reduce the output current of said oscillator, said instrument having gravity responsive means which opposes such movement by a substantially constant force over the range of regulation, whereby the current in the output circuit of said oscillator is maintained constant.

2,589,992
LIQUID DISPENSING AND FEEDING APPARATUS
Walter F. Cohrs, Glencoe, Minn.
Application May 11, 1950, Serial No. 161,367
4 Claims. (Cl. 210—29)

1. In a device of the class described, a frame structure, a liquid container, means mounting said container in an inverted position on said frame structure, an open-ended tubular dispensing conduit depending from the inverted container, a plunger rod extending loosely through said conduit for axial movements therethrough and having its upper end portion disposed within said container, the liquid in the container being normally retained in equilibrium by a differential in air pressure, movement of said plunger rod in an upward direction causing a pressure rise within said container and a resultant flow of liquid therefrom until equilibrium is restored, movement of the plunger rod in the opposite direction causing a pressure drop within said container whereby air is drawn upwardly through said conduit to restore equilibrium, a rock arm journalled intermediate its ends in said frame structure, one end of said rock arm being engageable with the lower end of said plunger rod to impart raising and lowering movements thereto, a cam engageable with the opposite end of said rock arm to impart rocking movements thereto, and yielding means biasing said rock arm in the direction of the cam.



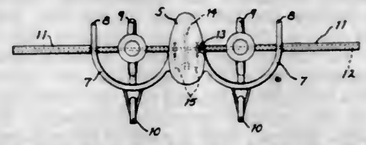
2,589,993
WINDSHIELD FOR MOTORCYCLES AND SIMILAR VEHICLES
Anthony Thomas Comiskey, Sr., Chicago, Ill.
Application May 31, 1949, Serial No. 96,204
3 Claims. (Cl. 296—78.1)



1. A wind shield for motorcycles and like vehicles, comprising a main screen, a frame bar rigidly secured to a lower marginal portion of said main screen, an auxiliary screen disposed rearwardly of said main screen and extending angularly rearwardly and downwardly therefrom, and means securing said auxiliary screen to said supporting bar of said main screen, said auxiliary screen having its front edge spaced from said main screen so as to permit air to flow between said main and auxiliary screens.

2,589,994
HIGH LIFT WING CHANNEL WITH MOVABLE WING
Willard R. Custer, Hagerstown, Md.
Application January 3, 1950, Serial No. 136,585
1 Claim. (Cl. 244—35)

An airplane including a fuselage, an upwardly opening fore and aft extending channel on each side of the fuselage, a shaft extending transversely through the fuselage and channels, the ends of the shaft projecting beyond the outer walls of the channels, a wing carried by each projected end of said shaft, and means in the fuselage operatively connected with the shaft for imparting up and down movement of the fore and aft ends of the wings.

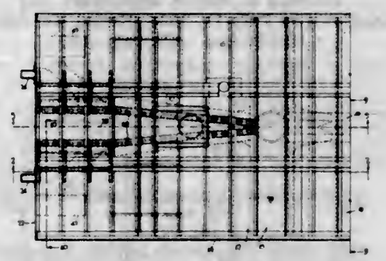


2,589,995
TIME CONTROL DEVICE
Joseph A. Darwin, South Orange, N. J.
Application September 13, 1949, Serial No. 115,327
8 Claims. (Cl. 74—568)



1. A control timer adapted for application to a shaft rotating to complete a predetermined time cycle at each revolution, said shaft being disposed adjacent a switch to be controlled by the timer, comprising a time setter tube adapted to be positioned on said shaft and normally frictionally engaging the same for rotation in unison therewith and slidable circumferentially relative to, for time-setting purposes, a cam connected to the said tube and movable in unison therewith, said cam having an outer face to engage said switch to open the same, and an interval setter telescopically engaging the tube, and having an outer face for engagement with the cam to displace the latter, to thereby predetermine the interval of engagement of the switch by the outer face of the cam.

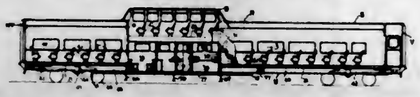
2,589,996
END UNDERFRAME FOR RAILWAY CARS
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 24, 1947, Serial No. 782,001
8 Claims. (Cl. 105—420)



1. End underframe for railway cars comprising a center sill structure, an end sill, and a bolster beam; said center sill structure comprising two longitudinally extending Z-section profiles having their webs vertically arranged and transversely spaced from each other and from the longitudinal center line of the frame, and having their upper arms directed toward each other and their lower arms directed laterally outwardly away from each other, said upper arms meeting and being connected with each other at the in-

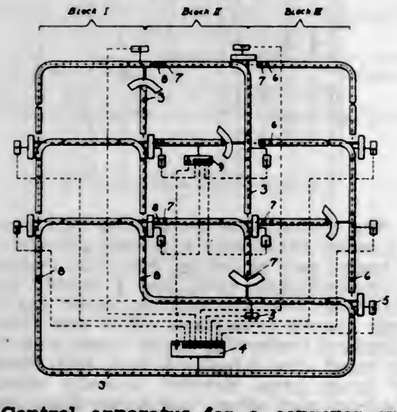
tersection with the bolster beam and inboard thereof thereby forming a hollow section center sill portion adapted for telescoping connection with a hollow section main center sill, the portions of the profiles on the outboard side of the bolster diverging and being interconnected at longitudinally spaced intervals by transverse members including the end sill, the diverging portions of the profiles providing between them a draft gear pocket; and a pair of lateral arms diagonally interconnecting lateral portions of the end sill with regions of the profiles inboard of the end sill to transfer forces exerted on said lateral end sill portions into the center sill structure.

2,589,997
RAILWAY CAR
Walter B. Dean and Albert G. Dean, Narberth, Pa., assignors to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 15, 1947, Serial No. 734,955
26 Claims. (Cl. 105—315)



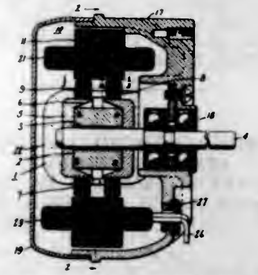
1. In a railway car: an underframe, side walls and a roof; wheel-supported car end portions having the underframe at a first level; a car middle portion provided with a dome projecting above the roof of said end portions and having the underframe at a second level below said first level; said underframe, side walls and roof constituting main stress-transmitting and load-supporting elements of the car; a pair of vertically and transversely arranged bulkheads located respectively at the transition from the end portions to the middle portion and structurally connected to roof, side walls and underframe; said bulkheads being formed as structural elements transferring stresses from the underframe at the first level to the underframe at the lower second level, from the underframe into the side walls, and from the roof into the side walls.

2,589,998
ELECTRONIC CONTROL FOR MONORAIL HOISTS OR THE LIKE
Charles E. Dougherty, New York, N. Y., and Edward E. Minor, Baltimore, Md.
Application July 11, 1946, Serial No. 682,975
10 Claims. (Cl. 104—149)



1. Control apparatus for a conveyor system having cargo trucks with electric hoist and run motors which obtain motive power through controllers from trolley wires, comprising in combination: means for generating and applying to the trolley line at least as many radio-frequency signals as there are cargo trucks; means for modulating said radio-frequency signals with at least as many audio-frequency signals as there are control functions desired; radio-frequency receiving means on the cargo trucks, each receiver being tuned to receive from the truck trolley a different one of said radio-frequency signals; and a plurality of audio-frequency band-pass filters and relays therefor on the cargo trucks operative to receive and separate the audio-frequency outputs from said receivers and supply corresponding actuating voltages to the cargo truck motor controllers.

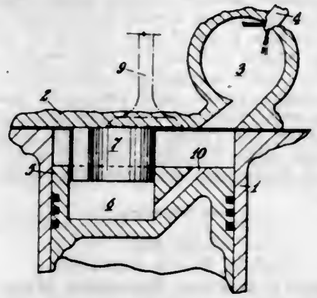
2,589,999
DYNAMOELECTRIC MACHINE
Karl M. Feiertag and Joe T. Donahoo, Fort Wayne, Ind., assignors to General Electric Company, a corporation of New York
Application April 27, 1951, Serial No. 223,402
7 Claims. (Cl. 172—275)



1. In a dynamoelectric machine of the synchronous inductor type, a rotor assembly comprising a cylindrical permanent magnet polarized axially, a pair of annular spider members formed of magnetic material and respectively abutting the axial ends of said permanent magnet, and a pair of annular laminated rotor core members respectively mounted on the outer peripheries of said spider members, said rotor core members respectively having an equal number of evenly spaced teeth formed on their outer peripheries; and a stator assembly comprising a single continuously stacked laminated stator core member surrounding said rotor member and spanning both of said rotor core members, said stator core member having a plurality of polar projections extending radially inward and defining air gaps with said rotor core members, said polar projections respectively having an equal number of evenly spaced teeth formed on their inner peripheries.

2,590,000
INTERNAL-COMBUSTION ENGINE
Reginald Ferguson, Peterborough, England
Application April 9, 1948, Serial No. 20,042
In Great Britain December 18, 1947
1 Claim. (Cl. 123—32)

An engine of the fuel injection type, in which in the head of the cylinder there is provided at least one element which in effect is a spigot and in the crown of the piston there is provided a corresponding number of recesses of substantially corresponding form into which the spigot will enter and thus function as a secondary compression chamber and at least one or more passages extending from the base of the recess to the outer surface of the crown of the piston through which the comburent gas entering the recess will be driven outward into the space between the piston crown and the cylinder head,



and means for injecting fuel into said last named space at a position toward which said passages direct said comburent gas.

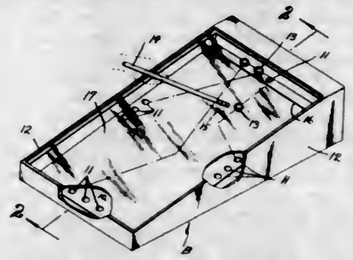
2,590,001
NONMICROPHONIC VACUUM TUBE SOCKET ASSEMBLY
Benjamin Fox, Philadelphia, Pa.
Application December 28, 1948, Serial No. 67,583
3 Claims. (Cl. 173—339)



1. A vacuum tube socket assembly comprising a socket body member having an external circumferentially extending rib thereon, a soft, resilient sleeve snugly embracing and frictionally engaging said socket body member, said sleeve hanging an initial internal diameter less than the external diameter of said body member whereby said sleeve is under tension on said body member, said sleeve extending over said rib in both directions therebeyond longitudinally of said body member to provide a sealed air pocket on each side of said rib and adjacent thereto, a mounting member embracing said sleeve in frictional engagement therewith in the region of said rib, said mounting member being provided with inwardly directed portions for retaining it on said sleeve, said mounting member being of less width than said sleeve in a direction longitudinally of said body member whereby said sleeve has at least a portion thereof external to said mounting member in said longitudinal direction, said inwardly directed portions contacting said sleeve in the region of said air pockets and pressingly engaging said sleeve, and additional means integral with said mounting member for suspending said mounting member on a suitable support.

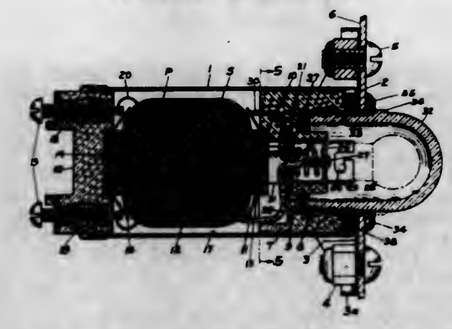
2,590,002
INCLINED PLANE MAGNETIC GAME
George E. Frazier, Sand Springs, Okla.
Application February 18, 1948, Serial No. 9,224
2 Claims. (Cl. 273—108)

1. A game device for use in association with a hand magnet, said device comprising in combination, an inclined play surface having at selected locations spaced from the highest side thereof play piece receiving pockets, a plurality of hollow semi-spherical play pieces resting on their convex surfaces on said play surface, said pockets being concave and of a depth and diameter to receive the convex side of a play piece, certain of said pieces being of magnetic material, and a cover overlaying and in spaced parallel relation



with said play surface, said magnet being used above said cover to move the magnetic pieces and all of said pieces being entirely free moving for rolling and sliding movement on the surface relative to the pockets.

2,590,003
PANEL LIGHT MOUNTING TO ABSORB MECHANICAL SHOCKS
John R. Gaston, Gettysburg, Pa.
Application March 5, 1949, Serial No. 79,835
10 Claims. (Cl. 240—90)

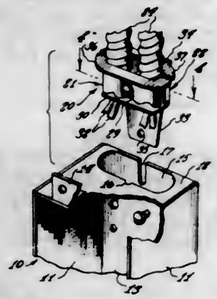


1. A panel light mounting comprising, a unit having a casing with a mounting plate therefor for attaching the unit to a support, a member fitting within the casing adjacent said mounted plate a socket and an electric light bulb carried by said member, a transformer having a core with primary and secondary windings thereon carried within the casing with one end of the core terminating closely adjacent the inner end of said member with its secondary winding connected to the bulb contacts of the socket, an insulator located at the opposite end of the casing and having a portion positioned closely adjacent the opposite end of said core, this insulator having terminal contacts connected to the primary of the transformer.

2,590,004
COMBINATION CONDUIT BOX AND CABLE CONNECTOR
Albert W. Givens and Della G. Givens, Marlboro, N. Y.
Application April 14, 1949, Serial No. 87,474
2 Claims. (Cl. 285—24.5)

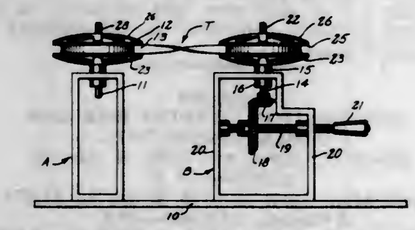
1. In combination with a conduit box having a bottom wall and a wall at right angles thereto, said last-named wall having an elongated opening therethrough positioned adjacent said bottom wall with one of the opposed longer edges of said opening positioned substantially in the plane

of said bottom wall, said bottom wall having a slot extending thereinto from that edge thereof adjacent said opening, a clamp comprising a pair of separate unitary opposed jaw members, one of said jaw members having the ends thereof rounded to receive therein the ends of two armored cables, the other of said jaw members having the ends thereof complementarily rounded likewise to receive said cable ends therein, said other of said members having a rearward doubled back extension thereby providing a tongue substantially parallel with the plane of said other of said jaw members and spaced from said other of said jaw members, a screw, said jaw members and said tongue having aligned openings, said openings in said last-named jaw member and in said tongue being threaded, said screw being adapted to be passed



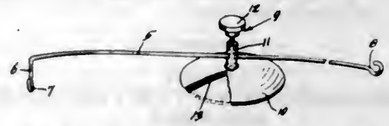
through said opening in said first-named jaw member between said cable ends and screwed into said threaded openings to clamp said cables between said jaw members and to secure said tongue in said spaced parallel relationship with said last-named jaw member, the transverse cross-sectional area of said clamp having approximately the same outline as said wall opening and having smaller dimensions than the latter so that said clamp with said cable ends attached is slidable into the box through said wall opening, said clamp with said cables thus secured thereon being thus insertible through said wall opening with said screw registering in said slot and said bottom wall positioned between said last-named jaw member and said tongue, and means for securing said tongue to said bottom wall, and limit stop means on the rear end of said clamp engageable with said wall.

2,590,005
FILM REWINDING APPARATUS
Peter F. Glenn, Philadelphia, Pa.
Application March 31, 1949, Serial No. 84,579
1 Claim. (Cl. 242—55)



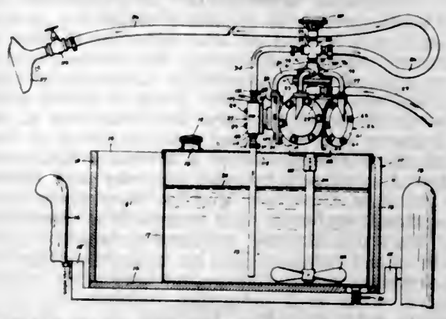
In a film re-winding apparatus, an elongated base, a pedestal having the form of a vertically elongated open rectangular frame rising from said base, a second pedestal having a substantially rectangular open frame rising from said base in spaced relation with respect to the first pedestal and of an equal height, vertical bearings mounted on the upper and lower sides of the top side of each of said pedestals, a shaft journalled through each of said bearings, spools keyed in a common plane on said shafts above the top sides of said pedestals, a bevel gear keyed on the lower end of the shaft carried by said second pedestal, another shaft journalled horizontally of said second pedestal below said gear and having an end projecting from its outer side, a second bevel gear keyed on the inner end of the latter shaft and meshed with the first named gear, and a hand crank keyed on the projecting end of said latter shaft.

2,590,006
NASAL TUBE HOLDER
Harry P. Gordon, Rochester, Minn.
Application July 27, 1950, Serial No. 176,129
4 Claims. (Cl. 128—206)



1. A holder for flexible nasal tubes and the like comprising an elongated shank having a substantially right angle bend at the lower end thereof, a tube receiving and gripping eyelet fixed at the free end of said bent portion, a second tube receiving and gripping eyelet fixed to said shank in spaced relation to said bent portion, means for securing said shank to the head of a patient to position the eyelet fixed at said bent portion adjacent the nostril of a patient.

2,590,007
LIQUID PROPORTIONING AND SPRAYING APPARATUS
Donald G. Griswold, San Marino, Calif.
Application July 22, 1946, Serial No. 685,396
19 Claims. (Cl. 299—84)



3. A liquid proportioning apparatus, comprising: a hydraulic motor including a plurality of cylinders, each containing a piston and requiring a predetermined volume of liquid to effect movement of the piston through its working stroke, said hydraulic motor having an exhaust outlet for operating liquid; a positive displacement pump for pumping a prescribed volume of a treating liquid, said pump having an inlet adapted to be connected with a supply of said treating liquid, and an outlet, said pump being mounted upon one of said cylinders of said hydraulic motor and having a pumping element arranged to be actuated by the piston in the cylinder associated therewith only during movement of said piston in a direction toward said

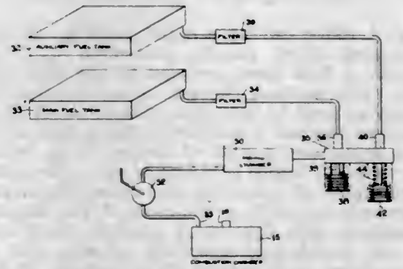
pump; and conduit means interconnecting the outlet of said pump and said exhaust outlet of said hydraulic motor so that the exhausted operating liquid and pumped treating liquid are mixed together in predetermined proportions.

2,590,008
CIRCULAR-KNIT MULTIFEED STOCKING AND METHOD OF MAKING SAME
Ivan W. Grothey and Robert H. Lawson, Laconia, N. H., assignors to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application April 26, 1948, Serial No. 23,224
14 Claims. (Cl. 66—187)



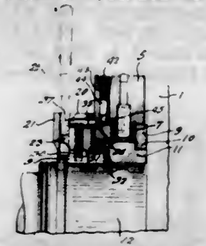
1. A circular-knit stocking knit multi-feed throughout having a turned welt, leg, heel, foot and toe, characterized in that the welt, heel and toe are knit of relatively heavy yarn or yarns and the leg and instep of the foot of relatively light yarn or yarns, in combination with the fact that the stocking is knit with the same number of feeds throughout and that the courses in the welt, leg and foot are all continued uninterrupted into the leg, heel and toe, whereby eyelets due to increase or decrease in the number of courses are eliminated.

2,590,009
METHOD OF PROPELLING HEAVIER-THAN-AIR DEVICES POWERED BY FUEL-BURNING PRIME MOVERS
John A. Hannum, Detroit, Mich., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 7, 1947, Serial No. 733,055
4 Claims. (Cl. 60—35.6)



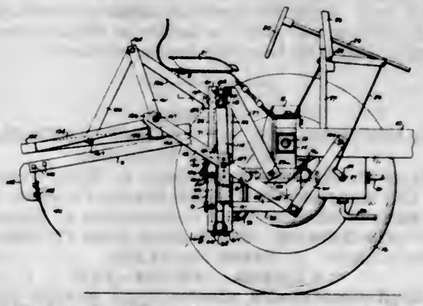
2. In the operation in flight of a heavier-than-air device powered by a fuel-burning prime mover, the improvement comprising varying with increasing altitude of the device the proportion of the combined oxygen in a liquid mixture of a fuel and a nitro aliphatic oxidant burned by the prime mover as a propellant, the variation in the proportion of the combined oxygen being effected by supplying progressively increasing amounts of a liquid nitro aliphatic oxidant selected from the group consisting of nitromethane, tetranitromethane, nitroethane, hexanitroethane, 1-nitropropane, 2-nitropropane, 1,1-dinitropropane, 2,2-dinitropropane, 1,2-dinitropropane, 1,3-dinitropropane, 1,1-dinitroethane, 1,1,1-trinitropropane, 1,2,3-trinitropropane, and mixtures thereof.

2,590,010
PLATE CLAMPING MECHANISM
Charles A. Harless, Riverside, and Thomas H. Johnson, Rowayton, Conn., assignors to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application November 4, 1948, Serial No. 58,202
5 Claims. (Cl. 101—378)



1. In a plate cylinder, and in combination, a plate clamp operating member having a socket for receiving a wrench and movable thereby, in a direction transverse to the direction of wrench insertion into the socket, between a clamping position and unclamping position, a locking member slidably carried by the operating member and positioned for movement by the wrench and parallel therewith upon insertion thereof in the socket, a plunger slidably carried by the locking member for movement into and out of the socket and in a direction transverse to the direction of wrench insertion, and a cooperating bevel on the operating member for forcing the plunger into the socket to hold the wrench therein upon movement of the locking member by the wrench being inserted in the socket, the surface of the operating member beyond the bevel abutting against the plunger to hold the same within the socket.

2,590,011
HYDRAULICALLY OPERATED LIFT FOR TRACTORS
Jesse C. Hawkins, Legerwood, N. C.
Application September 2, 1948, Serial No. 47,469
8 Claims. (Cl. 97—50)



7. Hydraulic lift means for a tractor having a hydraulic pump comprising a fixed frame

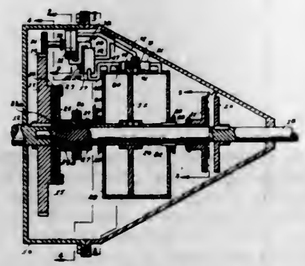
secured at its forward end to the rear end of the tractor, vertically movable hydraulic lift means mounted in the fixed frame, a boom disposed on each side of the fixed frame and having its front end pivotally secured to the fixed frame, a connection between the hydraulic lift means and a medial portion of the booms, an implement frame having its front end pivotally secured to the rear ends of the booms, an uprising lever bar rigidly secured to the front end of the implement frame, a pivoted link connection between the upper end of the lever bar and the connection between the hydraulic lift means and the medial portions of the booms, and manually operable means for admitting liquid from the hydraulic pump to the hydraulic lift means to raise the rear ends of the booms.

2,590,012

FLUID PRESSURE CLUTCH-ACTUATING MEANS FOR MOTOR VEHICLES

Ralph H. Hill, Flint, Mich.

Application March 4, 1949, Serial No. 79,654
3 Claims. (Cl. 192—12)



1. In a motor vehicle including a drive shaft, a driven shaft driven by said drive shaft, a driving clutch element on said drive shaft, and a driven clutch slidable on said driven shaft into and out of engagement with said driving clutch element whereby to couple said shafts together, the improvement comprising a sleeve slidably journaled on said driven shaft, said sleeve having a front end operatively connected to said driven clutch element for actuating the latter, said sleeve having a rear end having a first brake element fixed thereto, a second brake element fixed to said driven shaft for operative engagement with said first brake element upon sliding movement of said sleeve in a clutch-disengaging direction, a piston fixed to said sleeve concentrically thereof between said first brake element and said driven clutch element, a fixed cylinder surrounding said piston and adjacent portions of said sleeve, a source of fluid under pressure, and valve means for selectively supplying said fluid to opposite sides of said piston whereby to actuate the latter to engage and disengage said clutch and brake elements.

2,590,013

PLASTERBOARD, SCUFF RESISTANT PAPER LINER, AND PROCESS

Harry N. Huntsicker and John K. Wise, Evanston, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application June 22, 1948, Serial No. 34,555
6 Claims. (Cl. 154—45.9)

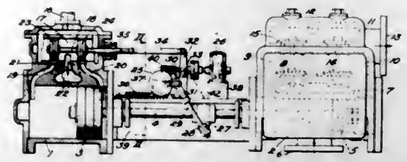
1. A decoratable plasterboard having secured to at least one surface thereof a porous, highly sized calendered paper sheet having scuff-resistant properties, said sheet containing in gradually diminishing quantities from the exposed surface thereof in an amount between about 0.5 and about 5 per cent by weight of the sheet, a heat-cured pre-formed heat reaction product of water, a polysaccharide selected from the group consisting of starches and dextrins, a compound selected from the group consisting of aliphatic amines and amides, and an aldehyde, the molar ratio of said aldehyde to said compound being within the range of about two to one and about four to one.

2,590,014

PISTON AND INDEPENDENTLY OPERATED DISTRIBUTING VALVE FOR RECIPROCATING PISTON ENGINES

Alexander Ivanoff and Giles Philip Eliot Howard, Luton, England

Application March 31, 1945, Serial No. 585,912
In Great Britain March 21, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires March 21, 1964
14 Claims. (Cl. 121—164)



1. A prime mover comprising a cylinder, a piston reciprocatable in said cylinder, valve means controlling the admission and exhaust of pressure fluid to and from said cylinder for reciprocating said piston, a cyclically operating cam device, means independent of said prime mover for driving said cam device and means operable on said valve means for moving said valve means in response jointly to the operation of said cam device and to the movements of said piston so that said piston is reciprocated in a controlled manner with a characteristic depending on the characteristic of said cam device.

2,590,015

GLOVE

Bert Kennedy, Johnstown, N. Y.

Application August 24, 1949, Serial No. 112,138
2 Claims. (Cl. 2—162)
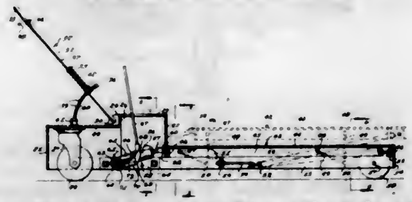


1. A glove having a wrist portion, comprising top and under panels connected by two side pieces, a first strap secured to one side piece at the wrist portion thereof, a cooperating second strap secured to the other side piece at the wrist portion thereof, a buckle having a pair of spaced side members, a pair of spaced cross bars connecting the upper portions of said side members, and a pair of upwardly and outwardly extending members connecting the ends of the spaced side members, said first strap passing under one end of said buckle and upwardly between said spaced cross bars, said second strap passing under the other end of said buckle and upwardly between said spaced cross bars, said first strap passing over one of said spaced cross bars and under one of said outwardly extending members, said first strap having a cinched portion between said one of said outwardly extending members, and another portion of said first strap, said first strap having a free end portion beyond said cinched portion, said second strap passing over the other of said spaced cross bars and under the other of said outwardly extending members, said second strap having a cinched portion between said other of said outwardly extending members and another portion of said second strap, said second strap having a free end portion beyond said cinched portion, said upwardly and outwardly extending members forming tabs upwardly and outwardly extending from each end of said buckle, said tabs being so disposed that pressure on one of said tabs at one end of said buckle causes the buckle to pivot upon the strap at that end of the buckle releasing the strap at the other end of the buckle from its cinched position.

2,590,016

HAND-PROPELLED HYDRAULIC LIFTING TRUCK

John H. Klassen, Inman, Kans.

Application December 9, 1949, Serial No. 131,945
2 Claims. (Cl. 254—10)



1. A lifting truck, comprising a low elongated horizontal support frame, wheels mounted upon one end of the support frame for supporting such end, and upstanding casing secured to the opposite end of the support frame and having its bottom open and projecting above the support frame, a steering caster mounted within the casing and connected with the top of the casing and including a wheel projecting below the casing for supporting the casing and the adjacent end of the support frame, a truck propelling and steering handle connected with the top of the casing and projecting above the casing for a substantial distance, a vertically shiftable lifting platform for the truck and arranged above the frame beyond the casing, vertically swingable hinges connecting the platform and frame, stops secured to the frame for engaging the hinges to limit their upward swinging movement, a spring connecting the platform and frame and serving to bias the platform toward a lowermost position, a hydraulic lifting jack mounted within the casing and having one end pivotally connected with the frame, the jack including a ram having its outer end pivotally connected with one end of the platform to raise and lower the platform, the casing including an end provided with an opening, the ram operating through said opening when actuated to raise and lower the platform, an upstanding vertically swingable ram operating lever pivotally connected near its lower end with the jack, the top of the casing having a slot formed therein, the upstanding ram actuating lever extending through the slot and above the top of the casing for a substantial distance, the ram actuating lever being arranged near the handle of the truck, and being swingable for extending the ram to raise the platform of the truck, and an exhaust valve for the lifting jack and operable to relieve the pressure behind the ram so that the spring may shift the lifting platform to its lowermost position.

2,590,017

FLUID SEAL PACKING

Kenneth H. Knight, Worcester, Mass., assignor to Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts

No Drawing. Application September 7, 1946, Serial No. 695,562
4 Claims. (Cl. 117—142)

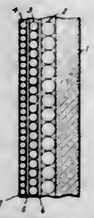
1. A fluid seal packing comprising porous tanned leather having its internal continuous pores substantially fully impregnated with a plastic gel comprising essentially a cooled mass formed of a preheated continuous molten phase of ethyl cellulose having castor oil dispersed therein in a chemically unaltered liquid phase.

2,590,018

PRODUCTION OF COLORED IMAGES

Lewis R. Koller and Ferd E. Williams, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application October 24, 1950, Serial No. 191,862
13 Claims. (Cl. 313—92)



1. A cathode ray tube screen for producing colored images comprising a plurality of uniform, mono-particle thick, continuous layers of materials producing different colored light, said layers being separated by films which absorb a part only of any electron energy passing therethrough.

2,590,019

CHLOROFLUOROCARBON AND METHOD OF MAKING THE SAME

Edward L. Kropa, Old Greenwich, and John J. Padbury, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 2, 1947, Serial No. 745,644
5 Claims. (Cl. 260—648)

1. 1,1,2-trichloropentafluorocyclobutane.

2. The method of preparing 1,1,2-trichloropentafluorocyclobutane which comprises heating together, at a temperature above the critical temperature of the mixed reactants and within the range of about 150° to about 300° C., and under a superatmospheric pressure of about 100 to about 5,000 pounds per square inch, a mixture of approximately equal molar amounts of 1,1-dichloro-2,2-difluoroethylene and chlorotrifluoroethylene, said heating being continued for a period sufficient to form 1,1,2-trichloropentafluorocyclobutane, and isolating 1,1,2-trichloropentafluorocyclobutane from the resulting reaction mass.

2,590,020

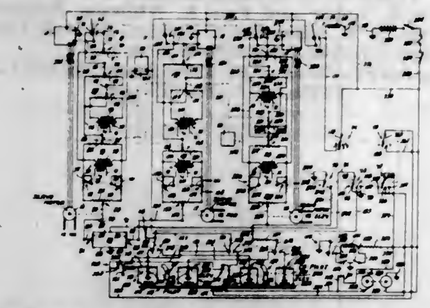
AUTOMATIC PILOT

Robert J. Kutzler and Theodore J. Wilson, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application June 27, 1945, Serial No. 601,816
25 Claims. (Cl. 244—77)

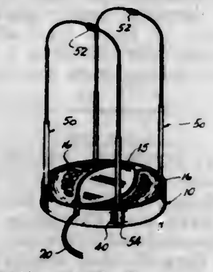
16. Control apparatus for an aircraft having

first and second control surfaces adapted to change the angular position of the aircraft about a first and second axis respectively, and including: control means associated with each of said control surfaces and including a controller responsive to the angular position of said aircraft about the axis about which said associated control surface is effective, and a manually operated control means, said responsively operated controller being capable of operating said control surface so as to tend to maintain said aircraft in a predetermined angular position about said axis, and said manually operated controller being capable of operating said control surface in accordance with the operation of said controller; and switching means operable to render the responsively operated controller and manually operated controller in each control means effective to cause



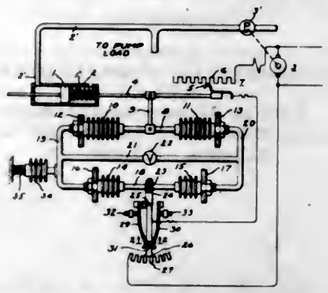
the operation of the associated control surface, whereby said manually operated controllers may be operated to vary the predetermined angular positions which said responsively operated controllers tend to maintain, or to render, in each control means, the manually operated controller effective and the responsively operated controller ineffective to cause the operation of the associated control surface, or to render the responsively operated controller in each said control means effective, the manually operated controller in said control means associated with said first control surface ineffective, and the manually operated controller in said control means associated with said second control surface effective, whereby said second control means may be operated to vary the predetermined angular position about said second axis which said corresponding responsively operated controller tends to maintain.

2,590,021
ELECTRICAL DRYING DEVICE
Esther C. Landon, Seattle, Wash.
Original application March 6, 1946, Serial No. 651,903. Divided and this application March 14, 1950, Serial No. 149,586
1 Claim. (Cl. 34—239)



In combination, a shallow, insulated tray, and a hot plate appliance removably contained therein for its functional uses, and a plurality of standards removably applied to the peripheral portion of the tray for the support of articles for drying over the hot plate appliance; said standards being telescopically adjustable in length and of flexible material and adapted to be joined at their upper ends to provide an umbrella form of support for articles to be dried.

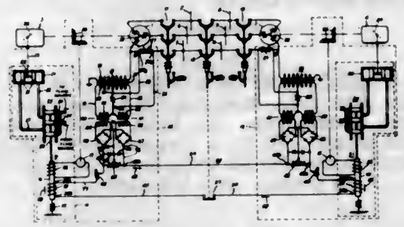
2,590,022
CONTROL DEVICE
Thomas E. Larkin, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 2, 1948, Serial No. 42,031
6 Claims. (Cl. 318—335)



1. A control ssytem for a drive means connected to a variable load for varying the speed of said drive means in response to variations in said load, said system comprising a control device movable in response to said load variations, hydraulic means responsive to movements of said control device to apply drooping and delayed de-drooping characteristics to said system, said hydraulic means comprising a pair of input bellows and a pair of output bellows, said bellows each having one fixed end and one free end, an input connector means interconnecting said free ends of said input bellows and connected to said control device to be actuated thereby, an output connector means interconnecting said free ends of said output bellows, means providing intercommunication between associated ones of said pairs of bellows to transmit motion from said input connector means to said output connector means, a member connecting said output connector and said control device for applying a drooping characteristic to said control system, means for biasing said member to a predetermined position, a connection between the interiors of said output bellows to provide for the return of said member to said predetermined position in accordance with its bias and to apply a time delayed de-drooping characteristic to said control system.

2,590,023
SYSTEM FOR PARALLELING ELECTRIC ALTERNATORS
Ernest E. Lewis, Scotia, and Raymond E. Thorn, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application May 5, 1950, Serial No. 160,262
9 Claims. (Cl. 290—4)

1. A regulating system for a plurality of parallel connected alternators driven by separate prime movers comprising a speed regulator for each of said alternators, each of said speed regulators comprising a spring biased solenoid, a speed control winding on said solenoid, said regulating system including at least one tachometer generator driven by one of said alternators and connected to energize said speed control windings to maintain each of said solenoids in a pre-determined position corresponding to a desired operating speed, a load power measuring device for each of said alternators, cross connections be-



tween said load measuring devices for determining deviations from a pre-determined desired generator load ratio, load adjusting windings on each of said solenoids and connections from said load measuring devices to said load adjusting windings for adjusting the individual speed regulators to maintain said pre-determined desired generator load ratio.

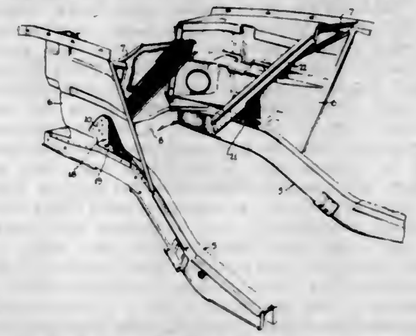
2,590,024
METHOD OF MAKING PINKING SCISSORS
Edgar M. Lieberman, Jackson County, Mo.
Application March 28, 1949, Serial No. 83,895
6 Claims. (Cl. 76—104)



1. The method of making pinking scissors which comprises, cutting a pair of flat metal blade blanks, placing said blanks one on the other with the edges of one parallel and offset transversely of the blades from the edges of the other, forming mating portions of the blades the axes of which are coincident and become the ultimate pivotal axis of the scissors, forming a plurality of corrugations in the overlapped portions only of the blades concentric with the ultimate pivotal axis of said blades, the adjacent faces of the blades being complementary, bending the blades to incline same to a plane normal to the ultimate pivotal axis thereof, removing a portion along the length of each of the overlapped edges to form cutting edges on said blades, and pivotally connecting together the formed blades for movement about the ultimate axis.

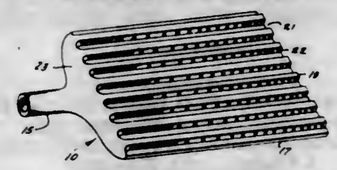
2,590,025
SELF-SUPPORTING AUTOMOBILE STRUCTURE AND WHEEL SUPPORTING BEAM SECURED BY VERTICAL BOLTS
Alexander R. Lindsay, Detroit, Mich., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 8, 1950, Serial No. 166,890
2 Claims. (Cl. 296—28)

1. In a self-supporting automobile structure having longitudinally extending side sill members connected on the outside with side wall panels, a transverse axle beam passing under said sills and vertical bolts extending through said sills and securing said beam, the provision of inwardly projecting, outwardly open pockets in the side wall panels at the locations of said bolts so as



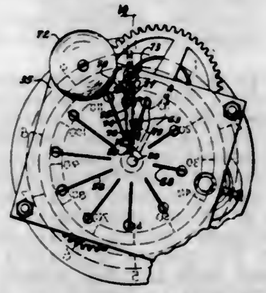
to render the upper ends of the latter accessible for installation and tightening.

2,590,026
VAPOR DELIVERY PAD FOR DISTRIBUTING MOIST HEAT
Zeppo Marx, Beverly Hills, Calif., assignor to Marman Products Co., Inc., Inglewood, Calif., a corporation of California
Application June 14, 1950, Serial No. 168,100
13 Claims. (Cl. 4—160)



1. In a hydrotherapy treatment apparatus, for use in connection with a means for supplying steam or heated water vapor, a delivery pad having at one end an inlet connection to receive the vapor and having in its upper face a series of depressions and a series of vapor outlets discharging into said depressions, said pad being provided with duct means connecting said inlet to said vapor outlets.

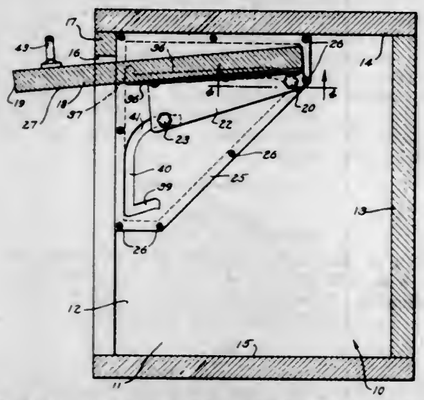
2,590,027
INTERVAL TIMER
Prather O. Mellard, Philadelphia, Pa., assignor of one-half to Morris M. Marks, Oreland, Pa.
Application February 15, 1949, Serial No. 76,577
17 Claims. (Cl. 161—23)



1. An interval timer comprising a clock mechanism, a time set, and a plurality of audible time indicating devices; said time set comprising a handle portion, a shaft, clutch mechanism, and a sound-actuating device adapted to be moved in

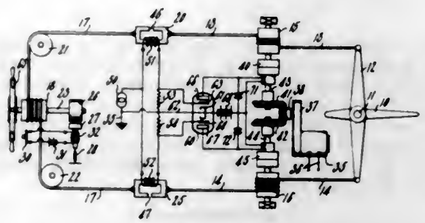
one direction during time setting operation, and in another direction during interval timing operation; said clutch mechanism comprising means for selectively engaging said clock mechanism with said shaft operably to permit said clock mechanism to impart motion to said shaft during interval timing operation, and for disengaging said clock mechanism therefrom during the setting operation of said shaft; a brake disposed between said time set and said clock mechanism; means to release said brake when said time set has been disposed in time interval setting condition and said clutch is engaging said shaft with said clock mechanism, and to engage said brake with said clock mechanism when said time interval is elapsed; said audible time indicating devices comprising a sound-emitting time indicator representing the termination of a time interval, and a sound-emitting time indicator representing the commencement of a time interval, said last-mentioned time indicator being actuated by said sound actuating device during said setting operation movement thereof, and again actuated by said sound-actuating device in the course of said interval timing movement thereof, and said first-mentioned time indicator being actuated by said sound-actuating device in the course of said interval timing movement thereof; each of said audible time indicating devices having a characteristic sound indicative of a specific time interval; and means selectively to withdraw an audible time indicating device from sound emitting engagement with said sound-actuating device.

2,590,028
GRAVITY ACTUATED DOOR MOUNTING
John Vance Miller, Phoenix, Ariz.
Application August 8, 1946, Serial No. 689,279
4 Claims. (Cl. 312—323)



2. In an enclosure having an entrance opening, a door completely filling said opening and means for firmly retaining the door in closed as well as in open position, said means comprising upper and lower trunnions on each side of the door and separate upper and lower bearing tracks for the upper and lower trunnions at each side of said opening, the trunnions being one inset relative to the other, the upper bearing tracks extending inwardly from the opening with short angularly directed closed ends forming pockets in which the upper trunnions are seated and maintained by the aid of the action of gravity and friction in the opened and closed positions of the door, the pocket of the upper track to hold the door in closed position being directed straight upwardly and the pocket for holding the door open being directed downwardly and inwardly from the general direction of the upper track, the lower bearing tracks being in angular relation to the upper tracks and having upwardly and inwardly directed lower end pockets receiving the lower trunnions for holding the door in closed position, and rollers carried by said trunnions and engaging the bearing tracks.

2,590,029
TORQUE AMPLIFYING SYSTEM
Nicholas Minorsky, Bethesda, Md., assignor, by mesne assignments, to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois
Application October 26, 1945, Serial No. 624,772
10 Claims. (Cl. 114—144)



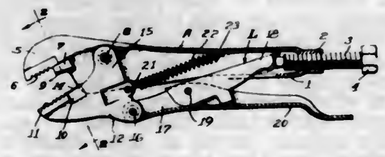
1. Torque amplifying apparatus comprising, in combination, a member for controlling a controlled element by the application to said member of a relatively small force variable in direction and magnitude; mechanism, including frictional clutch means and a source of power, for impressing on the controlled element a relatively large force variable in direction and magnitude; and control means for said mechanism including magnetic force responsive means operatively associated with said member; said control means continuously controlling the degree of engagement of said frictional clutch means to control the force exerted on the element by said mechanism in accordance with the direction and magnitude of the force applied to said member as measured by said force responsive means.

2,590,030
IRONING BOARD RAIL
Charles F. Obert, Detroit, Mich.
Application March 2, 1951, Serial No. 213,655
2 Claims. (Cl. 38—104)



1. In combination with an ironing board tapered in width at one end and having a top surface and side edges extending along the top surface, a mounting bracket secured to said board and disposed against one side edge thereof adjacent said one end, and a rail bar secured at one end to said bracket and extending from said bracket along and in spaced relationship to said one side edge of the board to a location adjacent the other end of the latter, said rail bar constituting a guard rail to maintain an electric iron extension cord out of contact with work pieces on said board, said bracket comprising an elongated base disposed against the corresponding edge of the ironing board, hook formations projecting outwardly from the side of said base remote from the ironing board and disposed one near each end of the base and at respectively opposite edges thereof, said hook formations extending inwardly transversely of the base and being mutually opposed to each other, and a pin projecting outwardly of the side of the base remote from said board and disposed between said hook formations, said pin having an elongated head spaced from the adjacent side of said base and extending transversely of the latter, and said rail bar having notches in respectively opposite edges thereof adjacent one end and spaced apart longitudinally of said rail bar a distance substantially equal to the distance between the hook formations on said bracket and having between said notches an elongated aperture extending longitudinally of the rail bar and dimensioned to receive the head of said pin.

2,590,031
CUTTER ATTACHMENT FOR TOGGLE-ACTUATED PLIER-TYPE WRENCHES
Christian Petersen, De Witt, Nebr., assignor to Petersen Mfg. Co., Inc., De Witt, Nebr., a corporation of Nebraska
Application April 28, 1947, Serial No. 744,409
1 Claim. (Cl. 81—181)



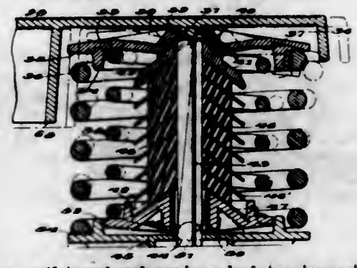
A tool of the class described, comprising two jaws, a handle rigid with one jaw, the other jaw being pivotally coupled to the handle adjacent to the rigid jaw, a lever means connected with said other jaw for moving the latter relative to the first jaw; in combination with wire cutting elements positioned at the inner portions of the working faces of the jaws, one of said elements constituting a knife having its cutting edge in the plane of and parallel with the working face of the adjacent jaw and the other element having a part coacting with said cutting edge and positioned in a plane lying in advance of the working face of the jaw with which it is associated, and means for varying the extent of movement of one of the jaws toward the other comprising a pivot coupling forming the connection between the lever and said other jaw, a toggle link pivoted at one end to said lever behind said pivot coupling and a screw threadably carried by said handle for adjustment longitudinally thereof and having the other end of the toggle link in thrust connection with its forward end the said coacting part of said other element being disposed at an acute angle to the plane of the working face of the jaw with which it is associated to bring the said cutting edge and the said coacting part substantially into parallelism when the jaws are at the limit of their swinging movement one toward the other, and the said other element having a long flat anvil face lying in a plane perpendicular to the plane of movement of the said knife cutting edge, said cutting edge contacting the longitudinal center of the anvil face when said elements are closed together.

2,590,032
LAMINATED COVERING AND PROCESS OF MAKING SAME
Robert K. Petry, Wilmington, Del., assignor, by mesne assignments, to Congoleum-Nairn Inc., Kearny, N. J., a corporation of New York
Application March 4, 1947, Serial No. 732,208
4 Claims. (Cl. 154—26)



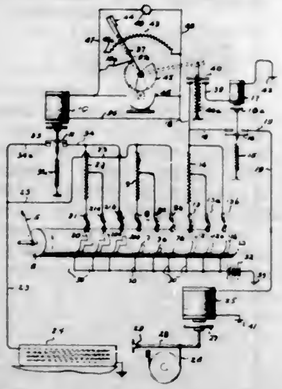
1. In a process of manufacturing flexible, laminated floor and wall coverings having a flexible supporting base and an adherently attached, flexible surface layer; placing edge to edge preformed pieces of different colored pliable sheet material containing from about 50% to about 75% by weight of filler material and binder consisting of a plasticized, synthetic vinyl polymer, to form a pattern, the said polymer being selected from a group consisting of polyvinyl chloride, polyvinyl acetate, polyvinyl butyral, and copolymer of vinyl chloride and vinyl acetate, and the plasticizer in the binder being nonoxidizable by atmospheric oxygen at atmospheric temperatures; applying heat and pressure to said edges to weld the pieces together and form a continuous flexible sheet in which the welded joints are as strong as other portions of said sheet, and bonding the resulting decorative sheet to a fibrous, flexible supporting base, the said filler material and plasticized polymer in the said pieces being proportioned to form a firm bond and also to reduce the elasticity of the said decorative sheet but to retain sufficient resilience and elasticity to resist delamination or curling under varying conditions of use.

2,590,033
SPRINGS FOR RAIL TRUCKS
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application September 4, 1945, Serial No. 614,374
4 Claims. (Cl. 105—187)



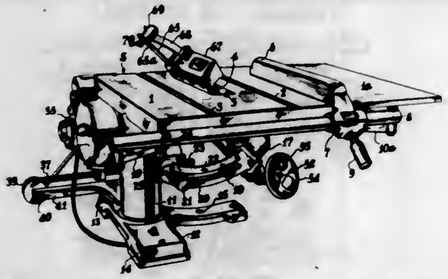
1. In a rail truck wherein a bolster is resiliently supported directly from the side rails of the frame of the truck, spring means supporting each end of said bolster each comprising a coil spring and another spring comprising rubber, said coil springs supporting the entire empty static loading of said body, said other springs jointly with said coil springs resisting all vertical loading in excess of empty static body loading, said other spring being composed of alternate vertical layers of metallic and rubber elements of conical interior and exterior shape whereby all of said springs act jointly in a vertical direction according to a load deflection curve such that the length of the projections of tangents from load points on said curve on the abscissa thereof decrease with increasing loads.

2,590,034
SEQUENTIAL BRAKING SYSTEM
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application September 9, 1948, Serial No. 48,439
9 Claims. (Cl. 172—285)



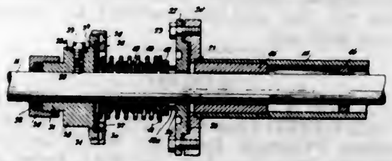
1. In a braking system for an electrically propelled vehicle, a dynamic brake, a friction brake and a track brake, automatic means operative in response to the setting of a manual controller for applying said brakes according to a predetermined normal braking sequence, and means operative in response to the failure of current in said dynamic brake at any time during a braking operation thereof for applying both said friction brake and said track brake but in reverse order with respect to said sequence.

2,590,035
TILTING-ARBOR SAW AND CRADLE SUSPENSION THEREFOR
Abraham Pollak, Linfield, Pa.
Application September 10, 1947, Serial No. 773,178
4 Claims. (Cl. 143—36)



4. A tilting arbor saw and cradle therefor comprising, in combination, a saw table having a table-top surface provided with a saw window having fixed longitudinal edges, pivot members mounted below the bottom surface of the saw table and having a pivotal axis positioned in substantial parallelism with the longitudinal axis of said saw window at a selected side thereof and also in substantial parallelism with the table-top surface, a saw cradle suspended from said pivot members to move concentrically about said pivotal axis, a saw arbor mounted to project from a side of the cradle into a position below said saw window, a saw blade mounted on said arbor and movable in a planetary path of movement about said pivotal axis, said pivotal axis being disposed on a line which coincides with the point of intersection of perpendiculars to a common arc drawn in tangency to lines indicating the two angular plane positions relatively to the table-top of the saw blade when the same is positioned at 90° and 45°, respectively, in a plane projection from the direction of the pivotal axis, and the saw arbor being arranged in the cradle at a distance below said pivotal axis which is sufficient to cause the same to be disposed beneath said lower surface of the table when said cradle is moved into its tilted position of 45° to the table-top.

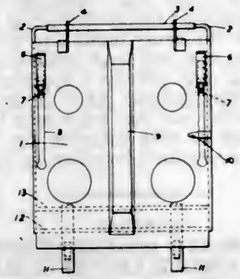
2,590,036
SHAFT SEAL
Lawrence D. Potts, Kenmore, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application December 16, 1944, Serial No. 568,425
2 Claims. (Cl. 308—36.2)



1. In a rotary pump for highly volatile liquefied gas having a pump body, an elongated tubular shaft housing connected thereto and projecting outwardly therefrom, a rotary drive shaft connected to said pump and projecting outwardly through said tubular housing, and an end thrust type of seal between said shaft and the outer end of said housing, said seal including complementary annular thrust bearing surfaces one of which comprises a ring of self-lubricating material substantially impervious to gas, said tubular housing having an inner diameter considerably larger than the shaft diameter, a guide bushing for said shaft of self-lubricating material located in said housing inwardly from said seal, said bushing also being adapted and arranged to form a barrier against fluid circulation and to provide a pocket of the material being pumped in a dry superheated gaseous state extending adjacent to and inwardly of said seal.

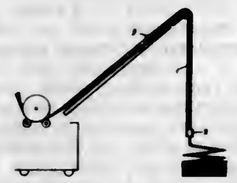
2,590,037
APPARATUS FOR FEEDING CARBON INTERLEAVED SHEETS TO TYPEWRITERS AND LIKE IMPRINTING MACHINES
John William Randall, Hemel Hempstead, England, assignor to John Dickinson & Co. Limited, Hemel Hempstead, England, a British company
Application August 5, 1947, Serial No. 766,290
In Great Britain June 14, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 14, 1965
5 Claims. (Cl. 197—126)

1. A carbon sheet holder for use with a carbon sheet carrier interleaved with multiple sheeted webs of relatively continuous stationery on a manifolding machine, said holder comprising a frame and means to clamp the same to a manifolding machine in a rearwardly and upwardly sloping position, guiding means on said frame to guide the webs thereon down to the platen of the machine, and self-releasable counter-balanced catches on the sides of the frame and having shoulders normally positioned in the path of movement of the carbon sheet carrier for temporarily checking forward movement of the carbon sheets, the catches releasing the carrier by movement of the catches against the influence of the counterbalance to disengage the shoulders and carrier in response to a slight forward pull exerted by the operator upon the



webs and interleaved carbon sheets, said catches being sloped on their forward faces to allow the carrier to ride thereover when the feed of the webs is reversed to again temporarily hold the carrier from forward feeding with the webs.

2,590,038
CARBON SHEET ARRANGEMENT FOR USE WITH CONTINUOUS STATIONERY
John William Randall, Hemel Hempstead, England, assignor to John Dickinson & Co. Limited, Hemel Hempstead, England, a British company
Application August 5, 1947, Serial No. 766,291
In Great Britain June 14, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires June 14, 1965
4 Claims. (Cl. 197—126)



1. A manifolding attachment for use with multiple sheeted webs of relatively continuous stationery on a manifolding machine having a rearwardly projecting support from which sheets may be fed to and around the platen of the manifolding machine, the attachment comprising a flexible smoothing sheet extending around the end of the machine support, a web guide at the far end of said sheet, from the platen, through which the continuous stationery is threaded, a support strip at the near end of said sheet, a carbon sheet holder formed of a single sheet folded transversely upon itself and having arms extending transversely from its open side held by said support strip, the holder having a pocket in its open side, one or more carbon sheets having strips across one end and projecting from the edges thereof, said carbon sheets being threaded through said pocket and held by said projecting strips from pulling therethrough, the continuous webs likewise being threaded through said pocket with sheets thereof on each side of said carbon sheets, whereby the webs and carbon sheets may be fed through the manifolding machine up to the holder and upon reversing the feeding movement, the carbon sheets and carbon sheet holder may be held stationary to permit fresh portions of the webs to be advanced into interleaved relation with the carbon sheets.

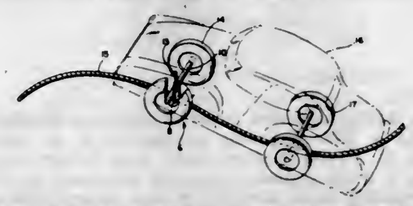
2,590,039
REACTION OF ORGANOSILICONHALIDES WITH ORGANODITHIOLS AND DISELENYL SUBSTITUTED ORGANO COMPOUNDS, AND PRODUCTS THEREOF
Frederick P. Richter, Woodbury, N. J., and Bernard A. Orkin, Philadelphia, Pa., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application July 30, 1948, Serial No. 41,716
16 Claims. (Cl. 260—448.8)

1. As a new composition of matter, the reaction product obtained by reacting: (1) a halide of silicon of the general formula

$$R_{(2-n)}SiX_{(2+n)}$$

where R represents a radical selected from the group consisting of alkyl, aryl, aralkyl and alkoxy radicals, X is halogen and n is 0 to 2, with (2) a compound of the general formula $H_yR'_zH$ where R' is an organic radical selected from the group consisting of alkylene and arylene radicals and y and z each represent a member of the group consisting of sulfur and selenium, in an inert solvent medium in the presence of a tertiary amine having a basic dissociation constant (K_B) value greater than that of alpha-picoline and which is free of steric hindrance.

2,590,040
VEHICLE GUIDING MEANS
Charles H. Rose, Chicago, Ill.
Application March 21, 1949, Serial No. 82,638
1 Claim. (Cl. 104—248)

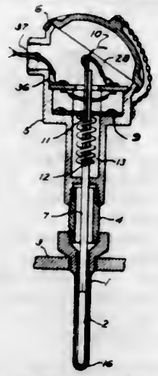


A road type of vehicle having front and rear wheels mounted on axles, the front axle being pivotally mounted about a vertical axis to the underframe of the said vehicle at a point forwardly of the said front axle, and a fork member secured to the said front axle extending downwardly and forwardly therefrom for cooperation with rail guide means to define its orbit of operation.

2,590,041
RESISTANCE THERMOMETER
Oscar W. Roost, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application September 9, 1949, Serial No. 114,769
2 Claims. (Cl. 201—63)

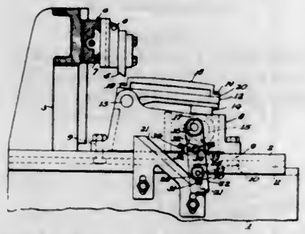
1. A temperature sensitive unit comprising a solid, integrally headed bobbin, a ceramic connector block mounted on the body end of said bobbin, a resistance wire winding on said bobbin between said connector block and the head of said bobbin, electrical lead wires connected to said winding, a binding cord winding over said wire winding and over said block and lead wires, a casing over said cord winding and secured to the head of said bobbin, and a body of insulation

between said casing and said cord winding, leaving no air space therebetween and extending



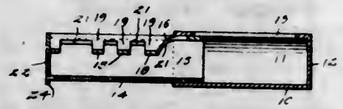
over the free end of said ceramic block in covering relation therewith.

2,590,042
APPARATUS FOR PRODUCING CURVED OR PLANE SURFACES
Charles F. Root, Cleveland, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application December 4, 1946, Serial No. 713,886
9 Claims. (Cl. 90—26)



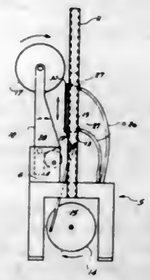
1. A fixture adapted to be applied to a machine wherein a tool performs an operation on work carried by a reciprocating base, said fixture comprising a work support pivotally mounted on the reciprocating base, stationary cam means located at one side of said base, a cam follower mounted on said base and adapted to follow the contour of said stationary cam means during reciprocation of said base, and means actuated by the movement of said cam follower during reciprocation of said base to rotate said work support and the work carried thereby in an arcuate path, whereby an arcuate path will be traversed by the tool with respect to the work.

2,590,043
TELESCOPIC ASH RECEIVER
Raymond R. Rundell, Miami, Fla.
Application January 31, 1946, Serial No. 644,626
2 Claims. (Cl. 131—241)



1. A telescopic ash receiver comprising a pair of telescoping tubular members constituting an encasing member and an encased member, a cigarette rest formed in the top of the encased member within the peripheral confines thereof, the encasing member having an elongated slot formed in its top along the length thereof, the encased member being slidable and rotatable in the encasing member whereby a cigarette on said rest may be positioned adjacent said slot, an end wall formed integral with said encased member, a segmental supporting member having a flat edge, and a pivot pin rotatably mounting said supporting member on said end wall within the peripheral confines of said wall and eccentric with respect to the longitudinal axis of said encased members whereby said flat edge may be disposed beyond the edge of said member for supporting said ash receiver against rotation on a fixed support.

2,590,044
FRANGIBLE PLATE SECURING MEANS FOR BED AND CYLINDER PRINTING MACHINES
Anton Schaller, Milwaukee, Wis., assignor to Perfex Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application May 1, 1947, Serial No. 745,143
1 Claim. (Cl. 101—250)

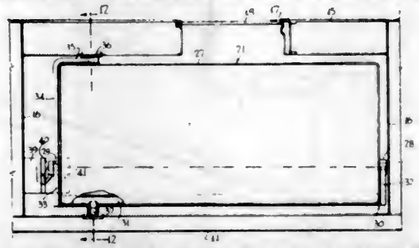


In a contact printing machine having a reciprocating carriage mechanism cooperating with an impression roller carrying a sheet of material to receive an impression from an inked image plate on said carriage, an image plate mounting block secured to the carriage, said block comprising a rigid face portion with spaced openings therein, a vacuum chamber operatively connected with said face portion by means of said openings, an image plate of frangible material adapted to be positioned in abutting relation to said face portion, means for maintaining a vacuum within said chamber and between said image plate and said face portion to hold said plate thereto, stop members secured to said mounting block and having portions extending above the plane of the plate supporting face of the block but terminating below the image carrying face of said plate and adapted to engage the edges of the image plate, and cushioning material interposed between the plate engaging portions of the stop members and said plate, said stop members being positioned on said block to engage the image plate at points to inhibit the inherent tendency of the plate to creep relative to the block under the influence of repeated impression contacts between the plate and said roller.

2,590,045
ROOM ARRANGEMENT WITH MOVABLE BED FOR SLEEPING CARS OR THE LIKE
Karl Ludwig Schiff, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 3, 1948, Serial No. 47,596
9 Claims. (Cl. 105—315)

1. In a sleeping car, a room defined by longitudinally extending center aisle and car side walls

and spaced transverse walls interconnecting said aisle and car side walls, a bed, when in use position, extending horizontally and substantially over the length and width of the room and movable between its horizontal use position and a vertically extending stowed position adjacent one of the room walls, and means supporting said

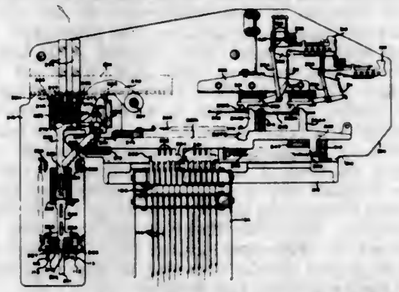


bed in the room for swinging movement about two axes intersecting each other in such movement between stowed and use positions, one of said axes extending longitudinally of the car generally parallel to the car side wall and the other axis extending transversely of the car generally at right angles to said side wall.

2,590,046
EMULSIFYING AGENTS
Henry Dawid Schoenfeld, Mitcham, England, assignor to Benninga (Mitcham) Limited, Mitcham, England
No Drawing. Application April 29, 1949, Serial No. 90,554. In Great Britain May 6, 1948
6 Claims. (Cl. 99—123)

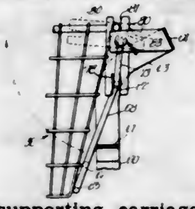
1. An emulsifying agent comprising a partial ester of a polyhydric alcohol with an estolised polyhydroxy higher fatty acid.

2,590,047
COMBINED TABULATOR AND SUMMARY PUNCH
Frederick A. Shultz, Herkimer, Floyd C. Gressel, Ilion, and Oscar J. Hobb, Little Falls, N. Y., and Gustav H. Kroeger, Cincinnati, Ohio, assignors to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application August 23, 1950, Serial No. 181,058
32 Claims. (Cl. 235—61.1)



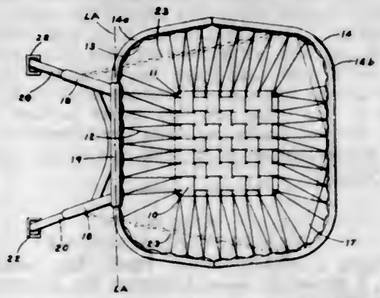
3. In a combined summary punch and tabulator the combination of a plurality of type bars advanced differentially, a plurality of positioning slides advanced on each cycle of the punch, means actuated by each positioning slide to sense the setting of a type bar and limit the advance of the positioning slide, a step sector advanced by each positioning slide, a plurality of gag bars advanced selectively on selected cycles of the punch to sense the settings of the step sectors, a set-pin storage unit set up in accordance with the settings of the gag bars and including a plurality of means selectively settable to erase all or a part of the set up of the storage unit, each of said means being operated on selected cycles of the punch under control of the tabulator.

2,590,048
BASKET CARRYING CARRIAGE
Harold I. Sides, Chicago, Ill.
Application November 1, 1949, Serial No. 124,866
2 Claims. (Cl. 280—50)



1. A basket-supporting carriage adapted for use in self-service stores and comprising, in combination, a frame structure including a base portion and an upright portion, a basket-supporting rest to which the rear side of a basket may be attached, connection means for pivotally connecting said rest to said frame upright portion whereby said rest is rotatable from a downward position to an upward position, and spring means having a stationary end connected with said frame upright portion and movable end connected with said rest so as to bias said rest from its downward to its upward position, a basket supported on said rest being in the horizontal position when said rest is in its downward position, and being in its vertically tilted position when said rest is in its upward position.

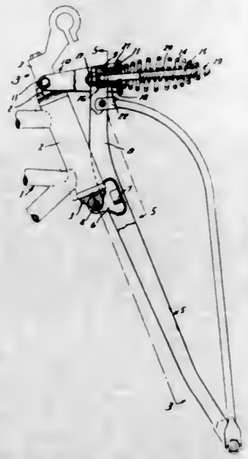
2,590,049
GYMNASIUM SPRINGBOARD
Bruce C. Sidlinger, Cedar Rapids, Iowa
Application February 7, 1949, Serial No. 74,939
5 Claims. (Cl. 272—65)



2. A foldable gymnasium springboard, comprising in combination, a two-part, generally rectangular frame, including two generally U-shaped members, the arms of which are respectively abutted at their ends, means including a hinge positioned below the level of the abutting ends of said arms for pivotably joining said U-shaped members whereby said U-shaped members lie in the same plane when the ends of said arms are in abutting relationship and the pivoting motion from the single plane is only upward, a flexible take-off surface resiliently supported within said frame, a fixed pair of short legs attached to and supporting one of said frame members, a pair of

relatively longer legs pivotably attached to the base of the other of said U-shaped members and extending downwardly and outwardly therefrom and defining an angle greater than 90° with said frame, and flexible tension means interconnecting said pairs of legs.

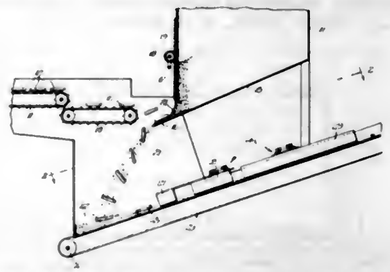
2,590,050
SAFETY SHOCK ABSORBER FOR FRONT FORK STRUCTURE OF BICYCLES
Leon A. Smith, Shelby, Ohio, assignor to The Shelby Cycle Company, Shelby, Ohio, a corporation of Ohio
Application August 3, 1950, Serial No. 177,403
11 Claims. (Cl. 280—276)



9. In a bicycle including a frame with a steering head, a steering post rotatably mounted in the head, a front fork structure dirigible with the post and pivotally connected to the lower end thereof for rocking forwardly and rearwardly about a horizontal axis, a yoke dirigible with the post and connected to the post above the head with its base spaced forwardly from the head, said front fork structure extending upwardly and forwardly from its pivotal axis and having an upper portion lying between the yoke arms and rearwardly of said base, and resilient compressible means interposed between and engaging the base of the yoke and the upper portion of said fork for resiliently resisting predetermined rocking movement of said fork about its horizontal pivotal axis.

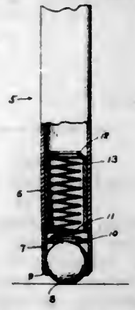
2,590,051
CONFECTION MACHINE
William P. Spain, Villa Park, Ill., assignor to E. J. Brach & Sons, Chicago, Ill., a corporation of Illinois
Application April 10, 1946, Serial No. 661,154
8 Claims. (Cl. 118—19)

1. In a machine for enrobing confection centers with a plastic coating and thereafter embedding relatively hard edible units within said coating, the combination comprising means for feeding a controlled stream of said units, means including a fixed surface arranged at a downward inclination from said feeding means for deflecting said stream of units laterally beneath said feeding means, conveyor means spaced a substantial distance beneath said feeding means, means for feeding coated centers into said stream of units against said inclined surface to embed said units in the surface of said coated centers and fall by gravity with said stream of units to said conveyor, said units and said coated centers being temporarily accumulated in a mass upon said conveyor whereby to embed additional units in the surfaces of said coated centers, and means



mounted along said conveyor to separate said mass of units and said centers containing embeded units into divergent paths whereby to roll the centers in the diverged mass of units as they are carried along by said conveyor.

2,590,052
CANE TIP
Johnny G. W. Stuits, Austin, Tex.; W. W. Patterson administrator of said Johnny G. W. Stuits, deceased, also known as J. G. Stuits
Application July 13, 1949, Serial No. 104,491
1 Claim. (Cl. 135—54)



The combination with a cane having a tubular lower end, a tubular cage having an elongated bore secured in the lower end of the cane, an enlarged socket formed on the lower end of the cage with its outer wall aligned with the outer side of the cane, a steel ball disposed in the socket with a portion thereof projecting from the lower end thereof, a washer of greater diameter than the bore in the cage and having a centrally disposed hole therein resting on the upper portion of the ball in opposed relation to the reduced upper end of the socket, an inturned flange formed on the lower end of the socket and retaining the ball therein, an inturned flange formed on the upper end of the cage, and an expansion coil spring disposed in the cage between the flange thereof and washer.

2,590,053
CONCRETE DRILLING DEVICE
Ervin W. Taylor, Micco, Fla.
Application April 7, 1950, Serial No. 154,527
2 Claims. (Cl. 255—61)

1. A drilling device comprising an elongated shank having means for attachment to a drilling tool on one end thereof, the other end of said shank being bifurcated to define a pair of longitudinally extending parallel arms, a flat cutter removably mounted between said arms, said cutter being provided with a plurality of spaced cutting teeth adjacent opposite edges thereof, a pin extending transversely through said arms and

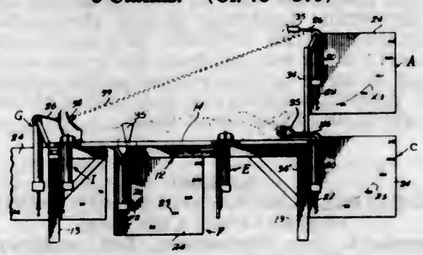


said cutter and removably secured to one of said arms for loosely supporting said cutter, and means on the bifurcated end of said shank and engageable between a pair of said teeth to thereby lock the latter in a fixed position relative to said shank.

2,590,054
PROCESS OF PRODUCING AMMONIUM NITRATE-CONTAINING COMPOSITION
James Taylor, Saltcoats, and John Whetstone, West Kilbride, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application July 15, 1948, Serial No. 38,955. In Great Britain September 1, 1947
9 Claims. (Cl. 52—19)

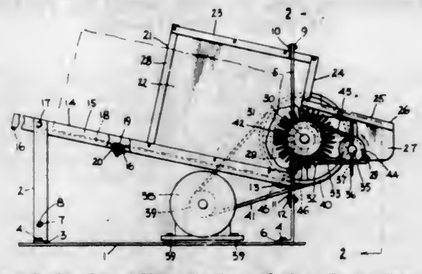
1. A process for the production of a composition comprising ammonium nitrate and potassium nitrate which comprises mixing together ammonium nitrate and powered potassium nitrate and maintaining the mixture thus formed within a temperature range of about 32° C. and about 100° C. for a time long enough to ensure that the ammonium nitrate is stabilized substantially as modification III which is that modification having a rhombic crystal form, a specific gravity of 1.654 and stable between the transition points normally occurring at 32.3° and 84° C.

2,590,055
APPARATUS FOR MEASURING MUSCULAR STRENGTH
Johannes Timmerman, Clifton, N. J.
Application June 28, 1946, Serial No. 680,006
5 Claims. (Cl. 73—379)



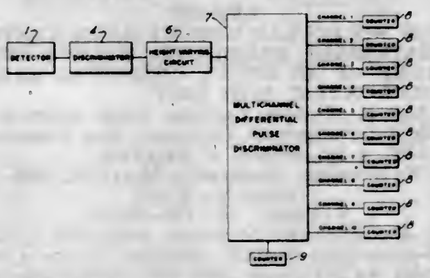
5. In an apparatus for measuring the muscular strength of a body member, a bracket having an axle thereon, a vertically elongated weighted pendulum having a head on its upper end journaled on said axle, said pendulum thereby normally occupying a dependent perpendicular starting position, a scale panel on said support having an arcuate scale concentric with said axle, a pointer projecting longitudinally from said pendulum across said scale panel, a stirrup, means operatively connecting said stirrup to said pendulum head to which force is adapted to be applied by a body member whereby said pendulum is swung to one side of its perpendicular starting position and the position of said pointer relative to said scale indicates the measure of muscular force applied, said means being directly connected to the pendulum head at one side thereof and trained over the head to the opposite side thereof and beyond.

2,590,056
BALED STRAW SHREDDER
Ernest U. Whitacre, Salem, Ohio
Application June 25, 1949, Serial No. 101,475
1 Claim. (Cl. 241—154)



In a bale shredding device of the character described, the combination of a plurality of shredding elements carried by a horizontal rotatable shaft, a second horizontal rotatable shaft disposed in parallelism with said first-named shaft, a plurality of shredding elements carried by said second shaft, said last-named shredding elements comprising rods extending diametrically through said second-named shaft and a solid web, of smaller radial dimension than said rods, extending across said rods, the orbit of rotation of said first-named elements intersecting the orbit of rotation of said rods, angularly inclined means for feeding a bale toward said first-named elements, said means extending at least partly below said first-named elements, and impaling means secured to said inclined feed means at the lower end thereof in the path of movement of said bale to arrest said bale at a position underlying said first-named shredding elements.

2,590,057
HALF-LIFE DETERMINING METHOD
Clyde E. Wiegand, Oakland, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application June 28, 1950, Serial No. 170,873
6 Claims. (Cl. 250—83.6)



1. A method of measuring the half-life of a radioactive sample comprising the steps of detect-

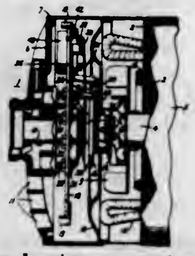
ing the individual quantum of radiation as a first pulsating electrical signal, producing a second electrical signal of predeterminable duration and having individual electrical pulses corresponding to the pulsations of said first electrical signal and of a magnitude proportional to the pulse interval of the corresponding pulsations of said first electrical signal, counting the total number of pulses in said electrical signal, and counting the number of pulses of said second electrical signal having magnitudes in a plurality of contiguous predeterminable ranges whereby the half-life of said radioactivity may be calculated therefrom.

2,590,058

MOTOR SWITCH ASSEMBLY

Glenn D. Willits, Leo, Ind., assignor to General Electric Company, a corporation of New York

Application June 27, 1950, Serial No. 170,635
4 Claims. (Cl. 171—252)



1. In a motor having an enclosing shell member and an end shield member cooperating therewith having an opening formed therein, a starting switch and overload assembly comprising a mounting and terminal board member formed of insulating material positioned within and secured to said shell member, a plurality of terminal studs secured to said board adjacent one end thereof and having interior portions for connection to the windings of said motor and exterior portions accessible to the exterior of said motor through said end shield opening for making external connections to said motor, a starting switch mounted on said board adjacent the center thereof, including a stationary switch contact secured to said board, and a movable switch contact adapted to be actuated by a speed responsive device on the shaft of said motor cooperating with said stationary contact, said stationary and movable contacts being adapted to be connected in circuit between the starting circuit of said motor and one of said terminal studs, and an overload element secured to said board adjacent the other end thereof adapted to be connected in circuit between the windings of said machine and one of said terminal studs.

2,590,059

HIGH MOLECULAR WEIGHT HALOGENATED MATERIALS STABILIZED WITH A MIXTURE OF AN EPOXY COMPOUND AND A CARBOXYLIC ACID SALT

De Loss E. Winkler, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 26, 1949, Serial No. 83,776
9 Claims. (Cl. 260—45.75)

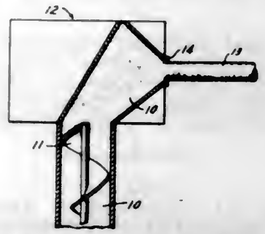
1. A composition of matter containing a halogen-containing organic substance having a molecular weight above 2000 and containing 10% to 75% of halogen in admixture with 0.1 to 10% of stabilizer therefor consisting essentially of each of a glycidyl ether having a 1,2-epoxy equivalency greater than one, and a carboxylic acid salt of a metal from the group consisting of cadmium and the alkaline earth metals, the weight ratio of said ether to said salt being from 1:9 to 9:1.

2,590,060

PROCESS FOR MANUFACTURE OF FUSES AND COMPOSITION THEREFOR

Henryk Zenftman and Joseph E. Forlin, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

Application February 6, 1948, Serial No. 6,827
In Great Britain May 7, 1947
7 Claims. (Cl. 52—2)



1. In the manufacture of fuse by a process which comprises intimately commingling with a deflagrating mixture of a reducing agent and a lead compound thermally decomposable to yield products comprising lead monoxide and free oxygen, a non-detonating thermoplastic material including nitrocellulose colloided by a non-volatile plasticizer, and extruding the thermoplastic composition so obtained in the form of a coherent, imperforate, rod-like core, the further step of adding an anti-hardening agent to the deflagrating mixture and the thermoplastic material for the purpose of preventing hardening of said thermoplastic composition during extrusion, said anti-hardening agent being selected from the group consisting of a water soluble polycarboxylic aliphatic acid, potassium binoxalate, butyl ether of ethylene glycol and mixtures of these.

7. A thermoplastic composition suitable for the production of fuse of the kind having a coherent imperforate extruded core, said composition comprising a deflagrating mixture of a reducing agent and a lead compound thermally decomposable to yield products comprising lead monoxide and free oxygen, a non-detonating thermoplastic material including nitrocellulose colloided by a non-volatile plasticizer, and an anti-hardening agent for preventing hardening of said thermoplastic composition during extrusion, said anti-hardening agent being selected from the group consisting of a water soluble polycarboxylic aliphatic acid, potassium binoxalate, butyl ether of ethylene glycol and mixtures of these.

2,590,061

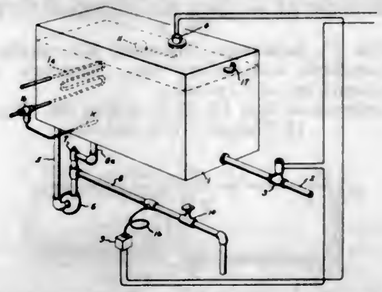
INDUSTRIAL LIQUID COOLER AUTOMATIC LIQUID LEVEL CONTROL

Clarence L. Ash, Churubusco, Ind., assignor to General Electric Company, a corporation of New York

Application September 1, 1949, Serial No. 113,643
2 Claims. (Cl. 62—7)

1. In a liquid cooling apparatus comprising a tank and means for cooling liquid in the tank to a predetermined temperature, said tank having a fresh liquid inlet and a cool liquid outlet having a valve therein, a control system for preventing

the admission of fresh liquid to said tank during the withdrawal of cool liquid therefrom, said system comprising a valve in said inlet and an energizing circuit therefor, first and second switches in series in said circuit, means dependent upon the liquid level in said tank for opening said first



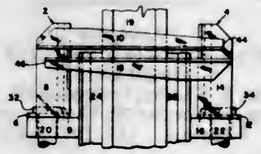
switch at a predetermined maximum liquid level, means responsive to a reduction in pressure of liquid in said outlet resulting from opening of the valve therein for opening said second switch, whereby said inlet valve may be energized only when said liquid in said tank is below said predetermined level and said outlet valve is closed.

2,590,062

BRAKE HEAD MOUNTING

Fred E. Bachman, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application July 5, 1946, Serial No. 681,567
6 Claims. (Cl. 188—73)



1. In a brake arrangement, a rotor with friction surfaces at opposite sides thereof, brake heads, brake shoes mounted upon respective heads and bearing upon respective surfaces, a plurality of oppositely arranged levers, guiding means superposed on respective heads, and pins pivotally connecting said heads to said levers and rigidly securing said means to said heads, said means operatively engaging each other for limiting rotation of said heads relative to their respective levers.

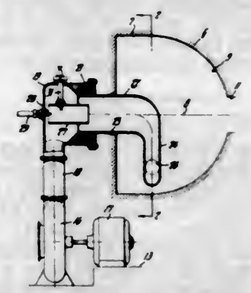
2,590,063

ROTARY REACTION NOZZLE FUEL BURNER

William D. Bailey, Jr., Oakland, Calif.

Application February 7, 1947, Serial No. 727,143
4 Claims. (Cl. 110—22)

1. A rotary reaction nozzle fuel burner comprising a drum-like combustion chamber having a central cylindrical portion and axial inlet and discharge openings in the ends, a stationary mounting outside said chamber, a combustion pipe extending axially though said inlet opening, a bearing for rotatably securing one end of said combustion pipe in said mounting, an extension on the other end of said combustion pipe having a tangential opening adjacent said central cylindrical portion of said combustion chamber, conduits for supplying said combustion pipe with combustible material, and an igniter for igniting said material to provide combustion products issuing into said combustion chamber from said tangential opening to rotate said combustion pipe



by reaction and to discharge through said discharge opening.

2,590,064

VERTICALLY OFFSET ROTARY WING AXES

Frank W. Caldwell, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application October 17, 1946, Serial No. 703,896
5 Claims. (Cl. 170—160.56)



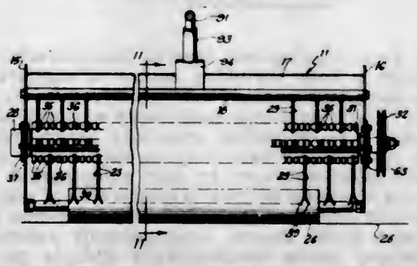
1. In rotary wing aircraft including a rotor hub and a plurality of rotor blades, means for separately pivotally mounting each blade on said hub including a flapping hinge for each blade permitting independent flapping movement of each blade relative to the other blades into a plurality of coned positions of said blades, said flapping hinges having their hinge axes located above the longitudinal axes of the several blades.

2,590,065

MOWER STRUCTURE

Carl W. Mott, Lake Ozark, Mo., assignor to International Harvester Company, a corporation of New Jersey

Original application August 16, 1947, Serial No. 768,993. Divided and this application July 29, 1948, Serial No. 41,344
13 Claims. (Cl. 56—289)



9. In a hammer knife mower, a rotatable carrier, flail mounting means on said carrier in radial spaced relation to the rotational axis thereof, a plurality of pairs of cutter flails pivotally mounted upon said mounting means and spaced lengthwise of said carrier, each of said flails comprising a rigid strap-like body having a shank portion lying in a plane normal to the carrier axis and pivotally connected at one end to the mounting means for pivotal movement within a plane parallel to flat faces at opposite

sides of said shank portion, said body also having a cutter end portion turned outwardly from a face of the associated shank portion within the limit of about 65°, and the knives of said pairs being arranged in back-to-back relation with said outwardly turned end portions in diverging relation.

2,590,066

METHOD OF STORING GASES OR LIQUIDS

Reginald L. Pattinson, Aylmer, Ontario, Canada

No Drawing. Application June 29, 1945, Serial No. 602,411. In Canada June 30, 1944
4 Claims. (Cl. 166—21)

1. A method of storing fluids which comprises feeding the fluid to be stored into a preformed substantially impervious cavity in a natural rock salt bed beneath the surface of the earth, said fluid being of such nature that it is substantially unaffected by the salt forming the walls of the cavity.

2,590,067

METHANOL COMPLEX OF DEHYDRO-L-ASCORBIC ACID

Benjamin Pecherer, Montclair, N. J., assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 10, 1950, Serial No. 161,259
1 Claim. (Cl. 260—344.5)

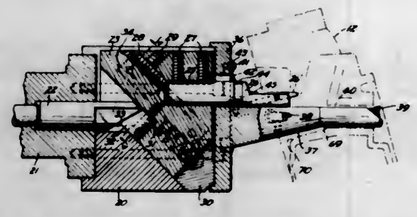
The crystalline complex consisting of dehydro-L-ascorbic acid combined with methanol in equimolecular proportions.

2,590,068

COMBINED BORING AND TURNING TOOL

Arthur F. Pekrul, New Britain, Conn., assignor to The New Britain Machine Company, New Britain, Conn., a corporation of Connecticut

Application January 19, 1950, Serial No. 139,435
3 Claims. (Cl. 77—58)



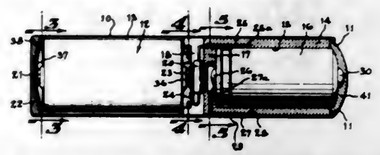
1. In a rotating-tool head of the character indicated, a body including means of support for rotation about a rotary axis, guide means on said body extending across said rotary axis and along a guide axis extending generally longitudinally and transversely relatively to said rotary axis, a tool slide embraced by said guide means and having its center of gravity on the side of said rotary axis that is on the rearwardly extending part of said guide means, longitudinally extending actuating means longitudinally slidably carried by said body on said rotary axis, a first cam wedge to be actuated by said actuating means and supported by said body for movement along said rotary axis, and a second cam wedge to actuate said tool slide and supported for movement with said tool slide, said cam wedges having mating sliding cam surfaces inclined at an angle intermediate said rotary axis and said guide axis, whereby there may be a linear relation between a movement of said actuating means and a feed of said tool slide, and whereby centrifugal force acting on said tool slide may substantially uniformly load said cam surfaces together for a plurality of feed positions of said tool slide.

2,590,069

ELECTRICAL SURGE DISCHARGE POWER UNIT

Charles C. Robinson, Newport, Ky., assignor to Shureflash Laboratory Inc., Newport, Ky., a corporation of Kentucky

Application July 12, 1950, Serial No. 173,388
16 Claims. (Cl. 320—1)



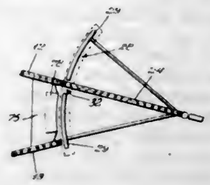
1. In an electrical power cartridge having a battery and capacitor each having respective pairs of terminals, a metal shell, a liner formed of dielectric material adapted to be inserted in the shell, the liner having respective cavities formed therein for confining the battery and capacitor, one terminal of the battery and capacitor being in common electrical connection with the shell, the respective second terminals of the battery and capacitor being insulated from the shell and interconnected with one another, the shell having an open end exposing the second terminal of the capacitor to provide a capacitor surge discharge circuit across the second capacitor terminal and shell.

2,590,070

MONORAIL CARRIER SWITCH SAFETY MECHANISM

John A. Shelby, Indianapolis, Ind.

Application September 30, 1948, Serial No. 51,950
4 Claims. (Cl. 104—103)



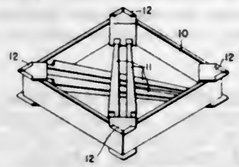
1. In a switch arrangement for a rail carrier system including a main track and first and second branch tracks; a switch mechanism for switching said first and second tracks into connection with said main track comprising a frame mounted for swinging movement in a horizontal plane; a short track section positioned on said frame, said section being in communication with said main track and having one end movable for connection with said branch tracks, a baffle means connected to said frame adjacent one end of said track section, said baffle having a surface adapted to be moved in a horizontal arcuate path over the ends of said branch tracks, said baffle being constructed and arranged to block one of said branch tracks when said track section is in communication with the other and to completely block the ends of both branch tracks when the short track section is moved; and baffle means positioned between the ends of the branch tracks for blocking the end of said track section in a position between said branch tracks.

2,590,071

MEANS FOR PACKING ARTICLES FOR SHIPMENT

Harry F. Zimmerman, Towson, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware

Application October 14, 1948, Serial No. 54,469
7 Claims. (Cl. 45—22)



1. As an article of manufacture, a packing pad comprising a rectangular sheet of self-supporting, deformable material bent along two substantially parallel lines to the shape of the letter C, a flap cut near each end of said sheet with its free end extending toward the adjacent end of the sheet, the corners of said sheet being bent back and inserted under the one of said flaps adjacent thereto, the central portion of said sheet having formed therein a pair of openings, said openings being symmetrically located with respect to the longitudinal center line of said sheet and being adjacent one of said parallel lines.

2,590,072

METHOD OF PREPARING STABILIZED ROSIN NITRILES

John Drew, De Ridder, La., and Joe C. Funderburk, Hattiesburg, Miss., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 14, 1950, Serial No. 149,654
9 Claims. (Cl. 260—100)

1. The process of preparing a stabilized rosin acid nitrile which comprises reacting the rosin acids of a stabilized rosin of the group consisting of dehydrogenated rosin and hydrogenated rosin in liquid phase with gaseous ammonia in the presence of a catalytic amount of a metal salt of rosin acids wherein said metal is a metal of group II of the periodic table.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

597,153. **STABILIZED CRIMPED FIBERS.** Byron N. Baer, Ridley Park, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware. Filed June 1, 1945. Published Mar. 18, 1952. Class 8—116.4. No drawing. 21 pages of specification.

The crimp in crimped filaments and fibers of regenerated cellulose can be permanently stabilized against the loss of crimp when said crimped fibers and filaments are under stress in the presence of water or moisture.

Crimped filaments and fibers of regenerated cellulose can be stabilized by impregnation with an aqueous solution containing 1 to 10% (preferably 2 to 5%) of glyoxal or a glyoxal yielding polymer and up to 2% of an acidic catalyst, such as boric acid, acetic acid, sulfanilic acid, oxalic acid, formic acid, ammonium chloride, ammonium sulfite, ammonium dihydrogen phosphate, α-chloracetic acid, α-bromacetic acid, and α-iodoacetic acid. The catalyst also functions to maintain the pH on the filaments and fibers, after drying, within the range of from 2 to 3.5. Optionally, a small amount of a polyhydric alcohol, such as sorbitol or other hexitols may be added to the glyoxal solution to assist in maintaining the pH within the preferred range. After impregnation, the fibers are dried and then cured by heating them to a temperature of 100° C. to 120° C. for about five minutes.

The filaments and fibers, though still pliant and flexible, are thereby permanently stabilized against loss of crimp, even against such loss during carding, combing and other operations usual in the spinning thereof into yarns, and during exposure to water and high humidity conditions, such as during the washing of fabrics made therefrom.

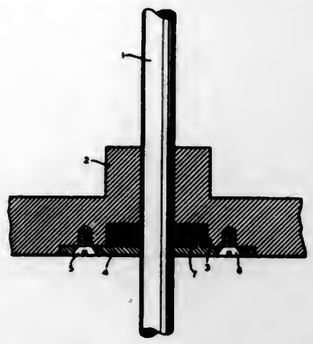
616,923. **METAL TEXTILE R-F GASKET.** Maurice B. Hall, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Filed Sept. 17, 1945. Published Mar. 18, 1952. Class 174—35. 1 sheet of drawings. 4 pages of specification.



This disclosure relates to a sealing gasket particularly for use in connection with radio frequency microwave conductors for preventing leakage of radio frequency energy through the metallic joints of such conductors.

With reference to the drawing, the gasket is constructed of knitted wire mesh of electrically conductive material to form a resilient annulus which is then formed under pressure to a desired configuration. Although when pressed into the form shown in the drawing some of the resiliency is lost, the gasket more nearly approaches a solid conductor electrically and retains sufficient resiliency to prevent leakage of radio frequency energy through metallic joints as a result of the inaccuracy of machining adjacent surfaces of the joints to be connected.

629,674. **ELECTRICAL CONTACT WITH MOVABLE SHAFT.** Fred Rosebury, Brookline, and Louis D. Smullin, Arlington, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Filed Nov. 19, 1945. Published Mar. 18, 1952. Class 173—324. 1 sheet of drawings. 4 pages of specification.



The disclosure relates to a device for providing good electrical contact especially but not exclusively in high frequency devices in which a rotating or sliding shaft is part of the electrical circuit.

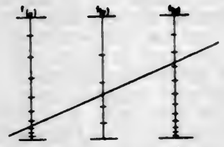
Referring to the drawing, a metallic support 2 is provided with a bore of suitable dimension to provide a reasonably frictionless bearing for shaft 1 and a resilient metallic wool packing 7 is located in a pocket 3 formed by enlarging the bore at one end of the support 2. The resilient metallic wool packing 7 is held in place under the pressure of a suitable cover plate 4 fastened to the bearing support 2 by screws 5. The improvement over prior contact devices lies in providing innumerable resilient contact fingers to provide a more reliable transfer of electric current than the substantially frictionless bore of the bearing structure.

634,111. **ELECTRO-MECHANICAL NOMOGRAPH.** Leopold E. Rovner, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Filed Dec. 10, 1945. Published Mar. 18, 1952. Class 235—61. 1 sheet of drawings. 5 pages of specification.

The disclosure relates to an electro-mechanical system arranged to operate as a nomograph for solving the roots of an equation having three variables.

Referring to the drawing, the system comprises a differential gear mechanism 13 having three

shafts 33, 34 and 35 geared thereto, three potentiometers 10, 11 and 12 respectively secured to these shafts, a voltage source for each potentiometer, and a voltmeter connected to each potentiometer for measuring the voltage between the movable contact and one end thereof. The potentiometers are wound to have a resistance each to correspond with the range of the numer-

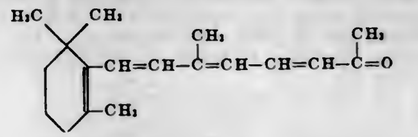


ical values of one of the three variables of the equation to be solved, the differential having such a gear ratio that upon setting two of the potentiometers at known roots of the equation, as indicated by their respective voltmeters, the third root is indicated on the third voltmeter. Locking means 36, 37 and 38 are provided for each of the shafts to facilitate operation of the system.

685,905. **SYNTHESIS OF VITAMIN A ACID AND INTERMEDIATES.** John D. Cawley, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Filed July 24, 1946. Published Mar. 18, 1952. Class 260—586. No drawing. 21 pages of specification.

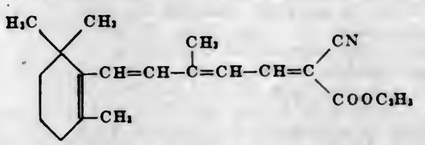
The application relates to the synthesis of vitamin A acid or closely related intermediates by the following methods.

1. Refluxing an acid chloride or similar acid halide of β-ionylidene crotonic acid with dimethyl cadmium, dimethyl zinc or dimethyl mercury in a solvent such as benzene, toluene or xylene and thereby forming a C_{18}-ketone of the formula

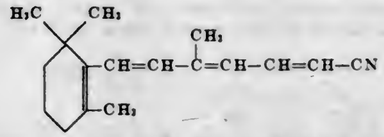


2. Heating at about 100° C. a mixture of ammonia and an ester of β-ionylidene crotonic acid, such as the ethyl ester, in ethyl alcohol or similar monohydric alcohol, reacting the resulting product with methyl magnesium chloride, methyl magnesium bromide or methyl magnesium iodide in ethyl ether at a temperature of about 0° C., adding aqueous ammonium chloride or dilute acid to the reaction product, and extracting out with ether the C_{18}-ketone obtained as a product.

3. Refluxing a mixture of β-ionone, ethyl gamma-bromo-alpha-cyanocrotonate or similar ester of gamma-halo-alpha-cyanocrotonic acid, and zinc or magnesium in benzene, toluene, xylene or similar solvent for about 3 hours to form a compound of the formula

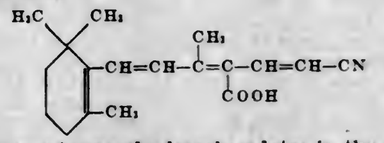


saponifying and decarboxylating the above compound at room temperature with 5% alcoholic KOH, NaOH or LiOH to form a cyanide of the formula

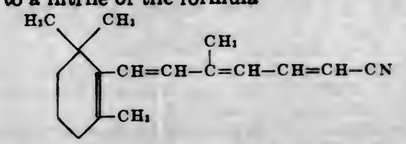


reacting such cyanide with methyl magnesium chloride, methyl magnesium bromide or methyl magnesium iodide at about 0° C. in solution in ethyl ether or a higher ether, decomposing the resulting Grignard complex to the C_{18}-ketone with aqueous ammonium salt or dilute acid, and extracting out the C_{18}-ketone with ether.

4. Refluxing gamma-bromocrotonic acid or similar gamma-halocrotonic acid with a metal cyanide such as potassium cyanide, sodium cyanide or copper cyanide for about 12 hours in a minimum volume of alcohol to form gamma-carboxy crotononitrile, refluxing a mixture of such gamma-carboxy crotononitrile, β-ionone, a lower aliphatic acid such as acetic acid and an amine salt such as acetamide, in solution in benzene, toluene or xylene to form a compound of the formula



which spontaneously decarboxylates in the reaction to a nitrile of the formula



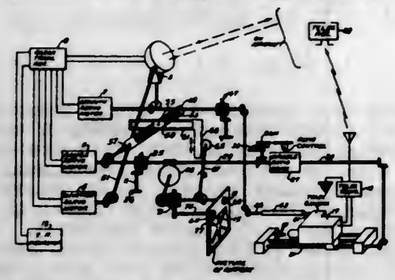
reacting such nitrile in ethyl ether or a higher ether at about 0° C. with methyl magnesium chloride, methyl magnesium bromide or methyl magnesium iodide to form a Grignard complex, decomposing the Grignard complex by addition of aqueous ammonium salt or dilute acid to form the C_{18}-ketone, and extracting out the C_{18}-ketone with ether.

5. Refluxing a mixture of C_{18}-ketone, zinc or magnesium, and ethyl bromoacetate or similar ester of haloacetic acid, in benzene, toluene or xylene for about 3 hours, acidifying the reaction mixture with dilute acid, and saponifying with 5% alcoholic potassium hydroxide, sodium hydroxide or lithium hydroxide to form vitamin A acid.

697,420. **RADIO SYSTEM FOR LANDING AIRCRAFT.** William A. Tolson and Carl A. Meneley, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware. Filed Sept. 17, 1946. Published Mar. 18, 1952. Class 343—6. 10 pages of specification.

This application discloses a blind landing or instrument ground approach system. A radar system preferably, but not necessarily, of the type designated by the U. S. Army Signal Corps as SCR-584, includes a sharply directive antenna supported on a trunnion arrangement 3 for motion in elevation and azimuth respectively by servo-motors 5 and 7. The motors 5 and 7 are controlled by signals derived from a transmitter-receiver set 8, to cause the antenna to follow or "track" a target or aircraft automatically. A

third motor 11 is controlled by the set 9 in accordance with range. A cathode ray indicator provides visual indication of range, elevation, and azimuth of the target being tracked.



A picture 15 of the terrain in the vicinity of a landing area is a photograph or drawing of the view from an aircraft flying along the desired glide path from a point at the beginning of the path looking toward the point of contact. A television camera 17 is directed toward the picture 15. The camera 17 may be moved toward or away from the picture by a leadscrew 21 and maintained in focus by a rack and pinion or other known arrangement (not shown).

The leadscrew 21 is coupled to a shaft 23 driven by range servo motor 11 through differential 25 and a variable ratio drive 27. The drive 27 ratio is controlled by a cam driven by range shaft 29 through gear train 33. The cam rotates once as the range shaft 29 turns through a number of revolutions from maximum to minimum range.

Inside the television camera at or near the focal plane is a small mask or silhouette in the shape of an airplane. The transverse motion of this mask is controlled through a spline coupling 43 to a shaft 41 and through a differential 47 to the azimuth servo motor 7.

The camera 17 is connected to a transmitter 18. The aircraft carries a television receiver 20 for reproducing on the aircraft the picture 15 as viewed by the camera 17 with the superimposed mask.

A radial arm 49 is secured to the elevation shaft 51 which is driven by the elevation servomotor 5. The radial arm 49 carries a leadscrew 53 which engages a nut 55. The leadscrew 53 is coupled through a universal joint 57 to range servo motor 11. The nut 55 is thus driven longitudinally of the arm 49 independently of the rotation of elevation shaft 51. The nut 55 is pivotally secured to a block 59 slidably supported in a bar 61. The bar 61 is restricted to motion in a direction at right angles to that of the block 59 as indicated by the double-headed arrow. A rack 63 connected to rotary motion of an altitude shaft 67. The shaft 67 is coupled to an altitude indicator 69 disposed adjacent the picture 15 and in the field of view of the camera 17.

The shaft 67 is coupled to one side of differential 71. The other side of differential 71 is connected through gears 73 to range shaft 29. The drive ratio of gears 73 is selected in accordance with the slope of the desired glide path. The output shaft 75 of the differential 71 is connected to an altitude error indicator 77 disposed adjacent the picture 15 and in the camera 17 field of view.

In operation, an operator observes the range and azimuth of an aircraft scanned by the radar antenna which is trained on the aircraft to be guided to a landing. The servo motors 5, 7, and 11 are then thrown into operation. The differential 25 is adjusted by handwheel 26 to correct for the range differential due to the antenna being displaced from the desired "touchdown" or point of contact of the aircraft on the runway.

The camera is initially positioned at the end of ways 19 remote from picture 15. As the aircraft approaches the runway, the camera moves toward the picture 15, presenting the same sort of view to the pilot as he would see if he were looking along the glide path from the aircraft position. The silhouette is superimposed as a shadow occupying the position that a shadow of the aircraft cast by the overhead sun would occupy. If the aircraft drifts to right or left of the desired glide path, the azimuth servo-motor 7 keeps the antenna pointed at the aircraft, and also causes the silhouette to move a corresponding amount right or left of the glide path representation in the picture.

The elevation servo motor 5 drives the antenna 1 in elevation and also keeps arm 49 at an angular position corresponding to the angle of elevation of the aircraft. The range servo-motor drives nut 55, and causes the vertical position of block 59 to be proportional to the present altitude H, indicated therefore by the indicator 69.

The differential 71 is supplied with the present altitude and the correct altitude, and indicates the difference on the indicator 77. In order to fly the aircraft at the correct glide angle, it is merely necessary for the pilot to control the craft to maintain the altitude error indication at zero, and to maintain the silhouette in the picture over the representation of the glide path in the picture.

A variable ratio drive, similar to drive mechanism 27, may be substituted for the gears 73 to permit variation of the glide path angle. Moreover, if a curved glide path is desired, the drive ratio may be controlled by a cam driven from the range shaft like the cam controlled by gear train 33.

720,391. **CEMENTED CARBIDE MATERIAL FOR WEAR SURFACE PARTS.** George F. Taylor, Grosse Pointe Woods, and George A. Perry, Royal Oak, Mich., assignors to General Electric Company, a corporation of New York. Filed Jan. 6, 1947. Published Mar. 18, 1952. Class 75—136. 12 pages of specification.



This application relates to a cemented carbide product having a temperature coefficient of expansion closer to the thermal expansion rate of the usual metal supporting members. The product, which is particularly useful for wear resisting surface applications, is a dual bonded barbide material consisting of (1) discrete particles of (a) a sintered mixture of a powdered hard metal carbide selected from the group consisting of tungsten carbide, tantalum carbide, titanium carbide and a mixture of tungsten carbide as a major component and one or both of the other carbides as a minor component, and (b) a primary binder for the metal carbide powder selected from the group consisting of nickel and cobalt which serves to bond the powdered carbide into the form of said discrete particles and (2) a secondary binder bonding said particles together in a form of a composite body. The secondary binder has a melting point lower than that of nickel or cobalt and a coefficient of thermal expansion higher than the mixture comprising the particles (1), and is selected from the group consisting of copper, brass, bronze, silver and an alloy comprising about 50% silver, 15.5% copper, 16.5% zinc, and 18% cadmium. The particles (1) are of the size falling within a range of from about 40 screen mesh to about 275 screen mesh and the secondary binder is present in said material in an amount of from about 15% to 50%, by volume, of the finished material, with the particles (1) being bonded together solely by means of said secondary binder.

758,478. **NEW ALCOHOL COMPOUND.** William F. Gresham, Richard E. Brooks and Walter M. Bruner, Wilmington, Del., assignors to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Filed July 1, 1947. Published Mar. 18, 1952. Class 260—632. No drawing. 9 pages of specification.

This disclosure relates to a new aliphatic alcohol, namely, 3,5,5-trimethylhexanol-1, and to methods for its preparation. This alcohol has a boiling point of 190° C. at 760 mm. mercury, a refractive index of $n_D25°=1.4300\pm0.0007$, and may be prepared by catalytic hydrogenation of the aldehyde 3,5,5-trimethylhexanal. The aforesaid aldehyde may be prepared by processing diisobutylene with CO and H_2 at a temperature of 75° to 200° C., and at a pressure in excess of 75 atmospheres in the presence of various hydrogenation catalysts, for example, the soluble salts of cobalt, nickel, and copper; the metal carbonyls, and the like.

Alternatively, the novel alcohol of this invention may be prepared directly from diisobutylene, CO and H_2 by reacting diisobutylene with CO and H_2 at a pressure in excess of 75 atmospheres and in the presence of a hydrogenation catalyst. Small amounts of the alcohol are normally obtained by its production from the aldehyde. These yields of alcohol may be improved if diisobutylene is treated with an equimolar mixture of CO and H_2, a cobalt catalyst promoted with ThO_2, and if temperatures of 120° to 175° C. are employed. An improvement of yield is also obtained if the CO-H_2 mixture is added continuously throughout the reaction in such amounts as to maintain a pressure of 75 to 125 atmospheres. Furthermore, the alcohol may be obtained directly from diisobutylene, CO and H_2, and in superior amounts, by reacting these ingredients at temperatures more elevated than those employed in the preparation of 3,5,5-trimethylhexanal.

The hydrogenation of 3,5,5-trimethylhexanal may be carried out by the methods known to the art, using catalysts such as nickel, cobalt, iron, copper, ruthenium, palladium, platinum, and the like, or mixtures or compounds thereof. These materials may be used in combination with each other or with inert materials such as kieselguhr, pumice, etc., or with promoters such as ThO_2, Mn, etc. Skeleton catalysts of nickel, cobalt, and copper may be especially useful. These latter are prepared by forming an alloy of the Ni, Co, or Cu with a metal such as aluminum, silicon, etc., and then treating the alloy with a solvent for the latter metal. Raney nickel is a well known example of this type of catalyst.

Crude mixtures containing 3,5,5-trimethylhexanal may be employed as the starting material for the hydrogenation. In general, however, improved results are obtained when the starting material is one which has previously been purified by vacuum distillation so that it consists of at least 90% 3,5,5-trimethylhexanal. Preferably, superatmospheric pressures are employed in carrying out the hydrogenation. A large number of inert organic solvents may be employed, if desired.

According to a preferred embodiment of this invention, outstanding results are obtained when the hydrogenation is carried out by passing a vaporized mixture of 3,5,5-trimethylhexanal and hydrogen in the mol ratio of H_2:aldehyde of from 5:1 to 100:1, at 100° to 300° C., and at a pressure of 0 to 5000 pounds per square inch gauge, over a copper-zinc catalyst containing copper and zinc in the weight ratio of about 1:2. The conversions of 3,5,5-trimethylhexanal obtained according to this latter process are consistently in excess of 99%, and the yields of refined alcohol are far superior to those obtainable by liquid phase hydrogenations or by vapor-phase processes employing other catalysts. Especially good results are obtained when temperatures of 200° to 250° C. and pressure of 300 to 600 pounds per square inch gauge are employed.

The copper-zinc catalyst referred to above contains the metals in the ratio of about one atom equivalent of Cu to two atom equivalents of Zn, (i. e., a weight ratio of Cu:Zn of approximately 1:2). This catalyst is preferably prepared by coprecipitating the metals as their carbonates from a solution containing soluble salts of copper and zinc in the proper proportions. This precipitate is ignited to the metal oxides by methods known to the art. At this stage, the catalyst may, if desired, be formed into pellets, pills, or granules the size of which will depend upon the size of the converter in which they are to be employed. Prior to use, the catalyst is reduced in hydrogen at 300° to 350° C.

This invention will be further illustrated by the following examples.

Example I

One hundred and twelve (112) grams of commercial diisobutylene (b. p. 100° to 103° C.), 75 ml. of diethyl ether (employed as a diluent), and 10 grams of reduced, fused, alkali-free cobalt catalyst are placed in a silver-lined shaker tube. A mixture of carbon monoxide and hydrogen in the mol ratio of 1:2 is introduced until the pressure is about 600 to 805 atmospheres and the reaction mixture is maintained at about 120° to 125° C. for a period of two hours. The reaction mixture, upon distillation, yields 44.1% of the colorless liquid, 3,5,5-trimethylhexanal [b. p. 170° to 171° C. at 760 mm.; carbonyl number (as determined by the method disclosed by Bryant and Smith, J. A. C. S. 57, 57) 383.2; theoretical carbonyl number for 3,5,5-trimethylhexanal, 394: refractive index, $n_D25°=1.4188$]. A small fraction [b. p. 118° to 145° C. at 50 mm. $n_D25°=1.4313$], which consists principally of 3,5,5-trimethylhexanol-1, is separated by distillation of the higher boiling fractions of the synthesis product.

Example II

3,5,5-trimethylhexanal is prepared in a continuous process by reacting commercial diisobutylene containing, as a catalyst, 0.05 weight percent cobalt in the form of cobalt naphthenate, with a gas mixture containing equal molar quantities of hydrogen and carbon monoxide. This gas mixture and the liquid diisobutylene containing the dissolved catalyst are compressed separately to 700 atmospheres, mixed, and passed through a stainless steel tubular reactor which is completely immersed in a liquid heating medium maintained at 200° C. The reactants are introduced at rates such that the mol ratio is 1.1 H_2/1.1 CO/1.0 diisobutylene and the contact time in the reactor is ten minutes. The converter effluent is cooled and discharged to atmospheric

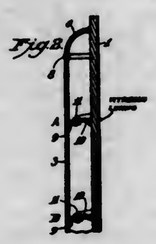
pressure. The crude product produced at these conditions contains 63% 3,5,5-trimethylhexanal, 12% miscellaneous materials, 12% isooctane, and 13% unreacted diisobutylene, corresponding to 84% conversion of diisobutylene, and 71% yield of 3,5,5-trimethylhexanal. This crude product may be distilled, if desired, to produce substantially pure 3,5,5-trimethylhexanal. Alternatively, it may be treated so as to produce a crude 3,5,5-trimethylhexanal fraction which is highly useful as a raw material for subsequent hydrogenation processes. This treatment involves removal of the hydrocarbons by vacuum or steam distillation followed by flash distillation at 100° C. and 10 mm. to remove tars and carbonylation catalyst. A typical crude aldehyde composition resulting from this treatment analyzes about 77% 3,5,5-trimethylhexanal and 7.3% 3,5,5-trimethylhexanoic acid and has a refractive index, $n_D^{25°}=1.4237$, and a density

$$d\frac{25°}{4°}=0.8296$$

The novel alcohol product of this invention is particularly useful in the preparation of a wide variety of esters. As disclosed in copending application S. N. 721,884 of W. E. Catlin and B. W. Howk, now U. S. P. 2,499,848, issued March 7, 1950, certain of these esters possess outstanding advantages when employed either as plasticizers for various resins, as lubricants, or in related applications. Included among the more attractive esters of 3,5,5-trimethylhexanol-1 are those derived from the following acids: phosphoric, acetic, propionic, phthalic, diglycolic, oxalic, glutaric, adipic, pimelic, suberic, azelaic, sebacic, acrylic, methacrylic, and others. 3,5,5-trimethylhexanol-1 may also be converted to acetals, formals, and ethers which are useful as synthetic lubricants. Furthermore, 3,5,5-trimethylhexanol-1 may be converted to useful sulfate detergents by processes which are well known. Many additional uses of this product will occur to those skilled in the art.

772,962. **JACKETED TREATING VESSELS.** Benjamin F. Schlimme, Wilmington, Del., and William O. Jewett, Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware. Filed Sept. 9, 1947. Published Mar. 18, 1952. Class 257—212. 1 sheet of drawings. 15 pages of specification.





This application discloses a construction of baffle for jacketed vessels of the type employed for the carrying out of chemical or food processing operations, and particularly for glass or other vitreous interior lined vessels.

The baffle of this application comprises an elastomeric material strip, such as rubber of 30 to 40 durometer hardness, for example, which is made sufficiently thick to support the weight of liquid which it is desired to circulate through the jacket interspace. The strip is attached to either the interior wall of the jacket or the exterior wall of the vessel before assembly of the jacket with the vessel, the width of the strip being greater than required to bridge the clearance between the jacket and the vessel, whereupon, after assembly, compression on the free edge brings the baffle strip into liquid-tight abutment with the adjacent wall, defining a path for liquid flow between successive turns.

In the embodiment of Fig. 2, a metal spiral 9 of a width less than the minimum clearance between jacket 3 and the outer wall of vessel 1 is provided as a support for a single length elastomeric strip 10 constituting the baffle. Strip 10 is attached to spiral 9 by rivets 11, the width of 10 being somewhat greater than the clearance between the inner edge of 9 and the outer wall of 1, so that strip 10 is compressed in liquid-tight relationship against 1 over its entire length. Thus, good sealing is obtained at points corresponding to both A and B, point B representing a region where the clearance between jacket 3 and vessel 1 is slightly greater than at point A.

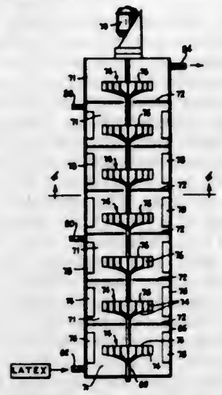
The embodiment of Fig. 3 is similar to that of Fig. 2, except that metal spiral 9 is eliminated and the elastomer strip 12 is made somewhat thicker and is provided with a peripheral channel for the reception of screws 13 attaching the baffle to the outside wall of vessel 1. A fluid-tight seal is obtained at both points C, farther removed from 1 than D, and D by the degree of compression applied by the jacket on the outer edge of 12.

772,984. **SELF-LOCKING PIN.** Eric A. Hallstrand, Stratford, Conn., assignor to General Electric Company, a corporation of New York. Filed Sept. 9, 1947. Published Mar. 18, 1952. Class 287—52.09. 1 sheet of drawings. 6 pages of specification.



This application discloses a pin for locking two members, such as a shaft and a gear thereon, against movement with respect to each other. The pin comprises a hollow, resilient, cylindrical, metallic member 1 having a longitudinal slot 3 in the wall thereof. Each of the opposed edges of the pin along the slot is formed to provide a pair of axially spaced, outwardly extending lips 2, 2, with each pair of lips being located in mutually opposing relation. The width of the slot intermediate the pairs of lips is substantially greater than the spacing between the opposed lips of each pair. This construction provides a pin adapted to be inserted in aligned apertures in the two members to be secured against relative movement; and when the pin is thus positioned, with the extreme portions of the pin including the two pairs of lips extending longitudinally beyond the ends of the outer aperture, the intermediate portion of the pin expands within the aligned apertures. This causes the two pairs of lips to protrude beyond the circumference of the outer aperture at the ends thereof and lock the pin in position.

781,326. **COAGULATION OF VINYL CHLORIDE RESIN LATICES.** George P. Rowland, Jr., Pottstown, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Filed Oct. 22, 1947. Published Mar. 18, 1952. Class 260—96. 2 sheets of drawings. 29 pages of specification.



This application relates to a process for coagulating latices of thermoplastic polymers without the addition of electrolytes. The coagulation is accomplished by vigorous agitation.

Latices including all known emulsifying agents may be coagulated by agitation, but it is preferred to use the sulfosuccinates or sulfated fatty monoglycerides, because small amounts of these can be used (0.1–0.75%) and the emulsions are readily broken.

For the agitation, at least the early stages should be violent enough to produce cavitation of the latex. An apparatus having revolving blades having a peripheral speed of approximately 200'–250' per second is preferred, and the latex is fed into the path of the blades. Substantially instant coagulation to the extent of 90% occurs.

Other suitable apparatus includes a Waring Blendor operated at speeds of 1500–2500 R. P. M. Also an ordinary centrifugal pump operating with the discharge throttled down below the efficient range may be used, so that churning and cavitation take place in the pump. Similarly, a single passage through a "Fitzpatrick" comminuting machine 28 (described on page 622 of the 1946 Chemical Engineering Catalog, Reinhold Publishing Company) coagulates the latex to the extent of 90%.

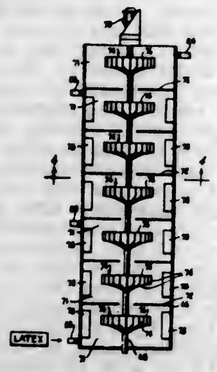
Other suitable apparatus is shown in Figure 3, which shows a vertically disposed 8" inside diameter cylindrical casing 66 having centrically disposed therein a 1½" rotary shaft 68 driven from above by a motor 70. The casing is divided into cells 71 by a series of baffles 72 extending from the walls and leaving a 1" clearance around the shaft. Within each cell and mounted on the shaft, is a 6" centrifugal pump impeller 74 having a shroud 76 on its upper side. Mounted on the walls of each cell is a vertical baffle 78 extending inward for 1". In operation, the shaft and impellers are driven at 600 R. P. M., the latex is introduced at 82 and passed upward. Water to the extent of twice the volume of the latex is supplied through inlets 80 to keep the latex workable. The coagulated latex is discharged at 84.

The precipitated resin, say, vinyl chloride polymer, may be filtered off, washed with water and a solution of 0.1% Na_2HPO_4 and 0.3% triethanolamine stearate and dried directly. It is preferred however to subject the aqueous slurry to a further digestion step which consists in heating it at temperatures at least 5° C. above the softening point of the resin (usually 80°–110° C.; pressure if needed). This serves to agglomerate the fine particles into larger, more readily filterable agglomerates. During this step, the incorporation of 0.5–2% based on the weight of the resin of sodium thiosulfate, will prevent deterioration of the resin during digestion. The time required ranges from 2 minutes to 4 hours, but deterioration due to long heating must be considered. The agitation-precipitated resin, before digestion, has a particle size on the order of 0.003–0.004 mm. diameter. After the treatment, these particles are clustered together into nodules averaging about 0.3 mm. in diameter, and which filter freely, and are non-dusting. As a result of improved filtering, when the resin is separated from the slurry by centrifuging, the cake contains less water. Thus the percent of moisture left in the centrifuge cake, can for example, be reduced to 38% by a 10–15 minute digestion at 100–110° C.

In a specific example, 95 parts of vinyl chloride and 5 parts of vinylidene chloride are copolymerized in aqueous emulsion, using 150 parts of deionized water, 0.3 parts of $K_2S_2O_8$, 0.6 parts of glycerol sodium monosulfate monoester of mixed lauric, myristic and stearic acids, and NaOH to maintain a pH of 7. After coagulation the digestion step was carried out with variations in temperature, duration and amount of sodium thiosulfate. It was found that the efficiency of the digestion depends principally on the temperature and not on the duration, temperatures around 100° C. being superior. The effect of these higher temperatures on the heat stability was offset by the inclusion of thiosulfates in the digestion bath.

The process is disclosed as being applicable to polymers of vinyl chloride with up to 20% of non-cross-linking comonomers, and with up to 2% cross-linking comonomers. Suitable non-cross-linking unsaturated comonomers capable of copolymerizing with vinyl chloride are a well-known class of compounds and include, for instance, vinyl esters on the order of vinyl bromide, vinyl fluoride, vinyl acetate, vinyl chloroacetate, vinyl butyrate, other higher fatty acid vinyl esters, vinyl alkyl sulfonates and the like; vinyl ethers such as vinyl ethyl ether, vinyl isopropyl ether, and the like; cyclic unsaturated compounds such as styrene, the mono- and polychlorostyrenes, coumarone, indene, vinyl naphthalenes, vinyl pyridine, vinyl pyrrole and the like; acrylic acid and its derivatives such as ethyl acrylate, methyl methacrylate, ethyl methacrylate, ethyl chloroacrylate, acrylonitrile, methacrylonitrile, diethyl maleate, diethyl fumarate and the like; vinylidene compounds on the order of vinylidene chloride, vinylidene bromide, vinylidene fluorochloride and the like; unsaturated hydrocarbons such as ethylene, propylene, isobutene and the like; allylic compounds such as allyl acetate, allyl chloride, allyl ethyl ether, and the like; and conjugated and cross-conjugated unsaturated compounds such as butadiene, isoprene, chloroprene, 2,3-dimethyl butadiene-1,3, piperylene, divinyl ketone, divinyl sulfone, and the like. Examples of cross-linking comonomers which may be included to the extent of 2% are diallyl phthalate, diallyl ether, divinyl ether, diallyl maleate, and the like.

781,418. COAGULATION OF VINYL CHLORIDE RESIN LATICES. Van A. Wente, Pottstown, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Filed Oct. 22, 1947. Published Mar. 18, 1952. Class 260—96. 2 sheets of drawings. 25 pages of specification.



This application relates to a process for coagulating latices of thermoplastic polymers without the addition of electrolytes. The coagulation is accomplished by vigorous agitation.

Latices including all known emulsifying agents may be coagulated by agitation, but it is preferred to use the sulfosuccinates or sulfated fatty monoglycerides, because small amounts of these can be used (0.1–0.75%) and the emulsions are readily broken.

For the agitation, at least the early stages should be violent enough to produce cavitation of the latex. An apparatus having revolving blades having a peripheral speed of approximately 200'–250' per second is preferred, and the latex is fed into the path of the blades. Substantially instant coagulation to the extent of 90% occurs.

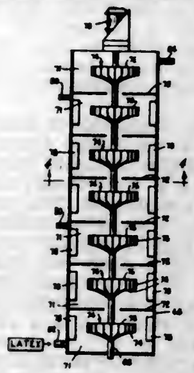
Other suitable apparatus includes a Waring Blendor operated by speeds of 1500–2500 R. P. M. Also an ordinary centrifugal pump operating with the discharge throttled down below the efficient range may be used, so that churning and cavitation take place in the pump. Similarly, a single passage through a "Fitzpatrick" comminuting machine 28 (described on page 622 of the 1946 Chemical Engineering Catalog, Reinhold Publishing Company) coagulates the latex to the extent of 90%.

Other suitable apparatus is shown in Figure 3, which shows a vertically disposed 8" inside diameter cylindrical casing 66 having centrically disposed therein a 1½" rotary shaft 68 driven from above by a motor 70. The casing is divided into cells 71 by a series of baffles 72 extending from the walls and leaving a 1" clearance around the shaft. Within each cell and mounted on the shaft, is a 6" centrifugal pump impeller 74 having a shroud 76 on its upper side. Mounted on the walls of each cell is a vertical baffle 78 extending inward for 1". In operation, the shaft and impellers are driven at 600 R. P. M., the latex is introduced at 82 and passed upward. Water to the extent of twice the volume of the latex is supplied through inlets 80 to keep the latex workable. The coagulated latex is discharged at 84.

The precipitated resin, say, vinyl chloride polymer, may be filtered off, washed with water and a solution of 0.1% Na_2HPO_4 and 0.3% triethanolamine stearate and dried directly. It is preferred however to subject the aqueous slurry to a further digestion step which consists in heating it at temperatures at least 5° C. about the softening point of the resin (usually 80°–110° C.; pressure if needed). This serves to agglomerate the fine particles into larger, more readily filterable agglomerates. During this step, the incorporation of 0.5–2% based on the weight of the resin of sodium thiosulfate, will prevent deterioration of the resin during digestion. The time required ranges from 2 minutes to 4 hours, but deterioration due to long heating must be considered.

The latices disclosed, that may be coagulated by the foregoing process are the homopolymers and copolymers of vinyl chloride. The copolymers may contain up to 20% of non-cross-linking ethylenically unsaturated compounds. Also up to 2% of cross-linking monomers may be tolerated. Suitable non-cross-linking unsaturated comonomers capable of copolymerizing with vinyl chloride are a well-known class of compounds and include, for instance, vinyl esters on the order of vinyl bromide, vinyl fluoride, vinyl acetate, vinyl chloroacetate, vinyl butyrate, other higher fatty acid vinyl esters, vinyl alkyl sulfonates and the like; vinyl ethers such as vinyl ethyl ether, vinyl isopropyl ether, and the like; cyclic unsaturated compounds such as styrene, the mono- and polychloro-styrenes, coumarone, indene, vinyl naphthalenes, vinyl pyridine, vinyl pyrrole and the like; acrylic acid and its derivatives such as ethyl acrylate, methyl methacrylate, ethyl methacrylate, ethyl chloroacrylate, acrylonitrile, methacrylonitrile, diethyl maleate, diethyl fumarate and the like; vinylidene compounds on the order of vinylidene chloride, vinylidene bromide, vinylidene fluorochloride and the like; unsaturated hydrocarbons such as ethylene, propylene, isobutene and the like; allylic compounds such as allyl acetate, allyl chloride, allyl ethyl ether, and the like; and conjugated and cross-conjugated unsaturated compounds such as butadiene, isoprene, chloroprene, 2,3-dimethyl butadiene-1,3, piperylene, divinyl ketone, divinyl sulfone, and the like. Examples of cross-linking comonomers which may be included to the extent of 2% are diallyl phthalate, diallyl ether, diallyl maleate, and the like.

781,456. COAGULATION OF RESIN LATICES. Robert H. Steiner, Pottstown, Pa., assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Filed Oct. 22, 1947. Published Mar. 18, 1952. Class 260—96. 2 sheets of drawings. 25 pages of specification.



This application relates to a process for coagulating latices of thermoplastic polymers without the addition of electrolytes. The coagulation is accomplished by vigorous agitation.

Latices including all known emulsifying agents may be coagulated by agitation, but it is preferred to use the sulfosuccinates or sulfated fatty monoglycerides, because small amounts of these can be used (0.1–0.75%) and the emulsions are readily broken.

For the agitation, at least the early stages should be violent enough to produce cavitation of the latex. An apparatus having revolving blades having a peripheral speed of approximately 200'–250' per second is preferred, and the latex is fed into the path of the blades. Substantially instant coagulation to the extent of 90% occurs.

Other suitable apparatus includes a Waring Blendor operated at speeds of 1500–2500 R. P. M. Also an ordinary centrifugal pump operating with the discharge throttled down below the efficient range may be used, so that churning and cavitation take place in the pump. Similarly, a single passage through a "Fitzpatrick" comminuting machine 28 (described on page 622 of the 1946 Chemical Engineering Catalog, Reinhold Publishing Company) coagulates the latex to the extent of 90%.

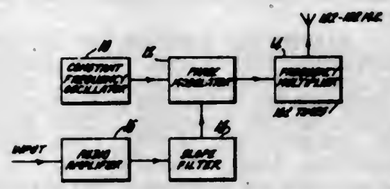
Other suitable apparatus is shown in Figure 3, which shows a vertically disposed 8" inside diameter cylindrical casing 66 having centrically disposed therein a 1½" rotary shaft 68 driven from above by a motor 70. The casing is divided into cells 71 by a series of baffles 72 extending from the walls and leaving a 1" clearance around the shaft. Within each cell and mounted on the shaft, is a 6" centrifugal pump impeller 74 having a shroud 76 on its upper side. Mounted on the walls of each cell is a vertical baffle 78 extending inward for 1". In operation, the shaft and impellers are driven at 600 R. P. M., the latex is introduced at 82 and passed upward. Water to the extent of twice the volume of the latex is supplied through inlets 80 to keep the latex workable. The coagulated latex is discharged at 84.

The precipitated resin, say, vinyl chloride polymer, may be filtered off, washed with water and a solution of 0.1% Na_2HPO_4 and 0.3% triethanolamine stearate and dried directly. It is preferred however to subject the aqueous slurry to a further digestion step which consists in heating it at temperatures at least 5° C. above the softening point of the resin (usually 80°–110° C.; pressure if needed). This serves to agglomerate the fine particles into larger, more readily filterable agglomerates. During this step, the incorporation of 0.5–2% based on the weight of the resin of sodium thiosulfate, will prevent deterioration of the resin during digestion. The time required ranges from 2 minutes to 4 hours, but deterioration due to long heating must be considered.

This coagulation process may be applied to latices of any thermoplastic resins. Especially mentioned are the crystalline polymers of 2,3-dichlorobutadiene-1,3. These orientable, extrudable polymers are those obtained by polymerizing 2,3 dichlorobutadiene-1,3 in aqueous emulsion in the presence of mercaptan or other sulfur containing modifiers. Also disclosed is the agitation coagulation of latices of polyvinyl acetate, polymethyl methacrylate, polyvinyl formate, polyacrylonitrile with vinyl methyl ether, vinyl-vinylidene chloride copolymer and copolymers of vinyl chloride with any of vinyl acetate, diethyl maleate, methyl acrylate or methyl methacrylate. In general, the process disclosed is applicable to the following monomers and combinations of monomers:

Vinyl chloride, vinyl bromide, vinyl fluoride, vinyl acetate, vinyl chloroacetate, vinyl butyrate, other higher fatty acid vinyl esters, vinyl alkyl sulfonates and the like; vinyl ethers such as vinyl ethyl ether, vinyl isopropyl ether and the like; cyclic unsaturated compounds such as styrene, the mono- and polychlorostyrenes, vinyl naphthalenes, vinyl pyridine, vinyl pyrrole and the like; substituted acrylic acid derivatives such as methyl methacrylate, ethyl methacrylate, ethyl chloroacrylate, acrylonitrile, methacrylonitrile, diethyl maleate, diethyl fumarate and the like; vinylidene compounds on the order of vinylidene chloride, vinylidene bromide, vinylidene fluorochloride and the like; and substituted conjugated and cross-conjugated unsaturated compounds such as 2,3-dichlorobutadiene-1,3, 2,3-dicyanobutadiene-1,3, divinyl ketone, divinyl sulfone, and the like. Such compounds may be copolymerized with each other and also with minor proportions of other extraneous unsaturated compounds, normally polymerizing to soft and rubbery materials without producing resins which are so soft and/or rubbery that the latices thereof are outside the scope of this invention. Such other extraneous comonomers may enter the copolymers to the extent of up to 20%, based on the total weight of copolymer, and include for instance the acrylic esters such as ethyl acrylate, propyl acrylate, chloroethyl acrylate and the like; and the diene-type compounds which polymerize alone to rubbery materials such as butadiene, isoprene, 2,3-dimethylbutadiene-1,3, chloroprene, and the like. It is noted that the monomers cited above are non-cross-linking, i. e., contain only one unsaturated bond, or two mutually conjugated or cross-conjugated bonds. However, the resin may also contain a small amount, say up to 2%, of a cross-linking monomer, without loss of thermoplasticity. Such cross-linking comonomers are exemplified in diallyl phthalate, diallyl ether, divinyl ether, diallyl maleate, and the like.

790,082. ANGLE MODULATION SYSTEM. Jarrett L. Hathaway, Manhassett, N. Y., and Ralph C. Kennedy, Arlington, N. J., assignors to Radio Corporation of America, a corporation of Delaware. Filed Dec. 6, 1947. Published Mar. 18, 1952. Class 250—6. 2 sheets of drawings. 10 pages of specification.

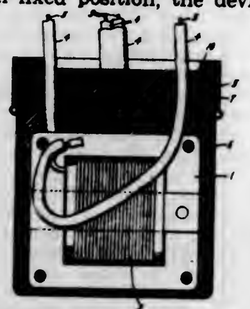


In a phase modulation transmitter, a slope filter 18 is inserted between the source of modulating potentials and the phase modulator. This filter attenuates the modulation potentials at a constant rate of change as the frequency thereof increases, but at a rate of change less than inversely proportional to frequency. A similar filter network is utilized in the receiver, following the modulation detector.

7,005. ENCASED ELECTRICAL APPARATUS. Philip H. Houser, Swampscott, Mass., assignor to General Electric Company, a corporation of New York. Filed Feb. 7, 1948. Published Mar. 18, 1952. Class 174—52 Orig. 1 sheet of drawings. 7 pages of specification.

The application discloses a positioning spider 7 supported in a container 5 above an electric

device 2 and holding the flexible lead wires 3 of the device in fixed position, the device and the



spider being immersed in an elastic insulating compound 10 filling the container.

22,743. **ELECTRICAL CIRCUIT ELEMENTS.** Clifford Mannal, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Apr. 23, 1948. Published Mar. 18, 1952. Class 178—44—7. 1 sheet of drawings. 7 pages of specification.



The disclosure relates to electrical circuit elements useful for the storage and discharge of electrical energy in the form of pulses of rectangular and other shapes.

Referring to the drawing, the element consists of a hollow thin walled tube of insulating material, preferably a ceramic substance, having a high dielectric constant, high dielectric and mechanical strength, and low dielectric losses; a conductor 3 in the form of a metallic coating applied to the outer surface of the tube wound about the exterior of the tube; and a thin conductive coating 2 formed on the inner surface of the tube, coating 2 being of striated or other configuration to reduce eddy current losses in the element.

83,531. **ALIPHATIC ETHERS OF 4,4'-DIHYDROXYDIBUTYL ETHER.** Kliem Alexander and Lester E. Schniepp, Peoria, Ill., assignors to United States of America as represented by the Secretary of Agriculture. Filed Mar. 25, 1949. Published Mar. 18, 1952. Class 260—615. No drawing. 4 pages of specification.

(Filed under the Act of March 3, 1883 as amended April 30, 1928; 370 O. G. 757.)

This specification relates to a new class of chemical compounds, herein named aliphatic ethers of 4,4'-dihydroxydibutyl ether. These have the following general formula:

$$RO(CH_2)_4O(CH_2)_4OR$$

in which R is a saturated aliphatic radical, such as methyl, ethyl, butyl, amyl, and isoamyl, and an unsaturated aliphatic radical, such as allyl.

In general, the method of preparation of these ethers is by reaction of 4,4'-dihalodibutyl ether:

$$Hal(CH_2)_4O(CH_2)_4Hal$$

with an alkali metal alkoxide. The preparation of 4,4'-dichlorodibutyl ether is described by Alexander and Schniepp in Jour. Am. Chem. Soc. 70, 1839.

The ethers of this invention are useful as solvents and intermediates in organic chemistry.

The following example illustrates the invention.

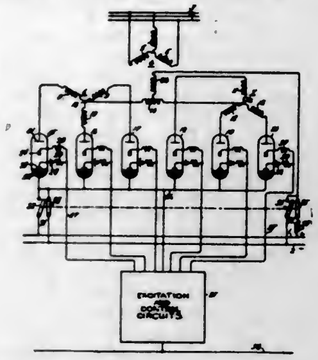
Example I

4,4'-Dimethoxydibutyl ether. To a solution of 32 g. (1.4 moles) of sodium in 280 cc. (7.0 moles) of anhydrous methanol was added 99.5 g. (0.5 mole) of 4,4'-dichlorodibutyl ether. The mixture was boiled under reflux for 4 hours and then filtered from a large accumulation of sodium chloride. The filtrate was returned to the reaction vessel and again boiled under reflux for approximately 10 hours. A further small quantity of sodium chloride separated. The excess methanol was distilled off and the oily product taken up in ether, washed with water and distilled at reduced pressure. The main fraction of 4,4'-dimethoxydibutyl ether.

$$CH_3O(CH_2)_4O(CH_2)_4OCH_3$$

passed over at 67–67.5° C. (0.55 mm.). The yield was 80 g., or 86 percent of theory. Analysis: C, calculated 63.1, found 62.4; H, calculated 11.66, found 11.3.

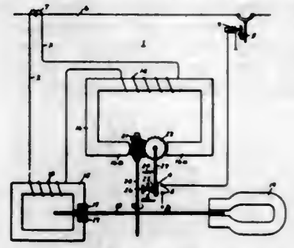
112,108. **ELECTRIC VALVE TRANSLATING SYSTEM.** August Schmidt, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Aug. 24, 1949. Published Mar. 18, 1952. Class 321—1. 1 sheet of drawings. 7 pages of specification.



This application discloses a power rectifier system for converting alternating current power from a three-phase power line 3 for supply to direct current load lines 1 and 2. The apparatus may also be used to invert direct current power to reverse the direction of power transfer by operation of the direct current reversing switch 31. When connected for use as an inverter, as shown, a resistance 37 is connected in series with the apparatus to broaden the operating current range of the inverter to cover a complete practical range. The resistor 37 reduces the direct current voltage from the load lines 1 and 2.

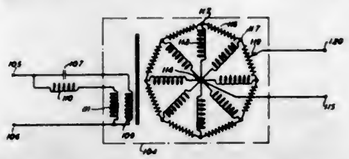
112,205. **TIME DELAY RELAY WITH INSTANTANEOUS RESET.** Albert R. van C. Warrington, Wallingford, Pa., assignor to General Electric Co., a corporation of New York. Filed Aug. 25, 1949. Published Mar. 18, 1952. Class 200—97. 1 sheet of drawings. 9 pages of specification.

This application discloses an inverse time delay relay having an eddy current driving motor including a rotor disk 18 which is coupled by means of a shaft 20 and magnetic gear-like members 21 and 22 to move a relay contact structure 4. The relay is operable in response to overload conditions in a power line 6 as detected through a current transformer 7 which energizes windings 13 and 14 of the relay motor stator structure 15 and the magnetic driving member magnetization yoke 16. Upon operation of the relay to close contacts 5 by movement of contact struc-



ture 4, a circuit is completed for trip coil 9 to open an associated circuit breaker 8 to thereby disconnect the overloaded power line.

129,987. **CARRIER FREQUENCY PHASE TRANSFORMATION MEANS.** Charles W. Thulin, Morristown, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York. Filed Nov. 29, 1949. Published Mar. 18, 1952. Class 321—57. 3 sheets of drawings. 29 pages of specification.



Phase transformation at carrier frequencies may be accomplished by employing two transformers each having a single primary winding and a number of secondary windings where transformation from a two-phase system is desired. Thus transformation from a balanced two-phase system to a balanced eight-phase system is attained by interconnecting twelve secondary windings, six secondaries being associated with each primary winding. Parasitic impedances may be controlled by interleaving the secondary windings of each transformer between two sections of the primary winding. Phase transformation may also be accomplished if a rotating field is produced by the primary windings and the secondary windings are properly displaced in that field. If a single-phase source is the supply and a phase shift to any phase angle is desired, a phase-splitting arrangement comprising capacitance 107 and inductance 110 is connected between the terminals 105 and 106 and the primary windings 109 and 111. Each of the secondary windings 112 is connected to a common point 114 joined to one output terminal 115. The other ends of the secondaries 112 are connected to evenly spaced taps 117 on the closed potentiometer 116. The potentiometer 116 is engaged by a sliding contact 119 which may be rotated through 360 degrees and is connected to the other output terminal 120. Thus by changing the position of the sliding contact phase variations up to 360 degrees may be obtained.

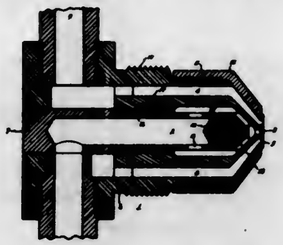
148,996. **PREFABRICATED BITUMINOUS MEMBRANE CANAL LINING.** Jewell R. Benson, Denver, Colo., assignor to U. S. Government Assignment. Filed Mar. 10, 1950. Published Mar. 18, 1952. Class 61—7. 1 sheet of drawings. 5 pages of specification.

The disclosure relates to a prefabricated bituminous membrane canal lining and particularly to one which is permanently flexible and prevents excessive seepage of water through the earth forming the bottom and sides of the canals, irrigation ditches, reservoirs and the like. A preferred embodiment of the disclosure comprises a prefabricated sheet consisting of a cataclytically blown asphaltic material, of from 40 to 60 penetration, having a softening point between 175 to 225 degrees Fahrenheit and varying from about $\frac{1}{8}$th to $\frac{1}{4}$th inch in thickness mounted on a relatively light and temporary reinforcement preferably a sulphite or like paper which will disintegrate in contact with moisture. The lining is coiled to form rolls for transport.



In use the lining is positioned in the canal or ditch, extending up the slopes thereof to an elevation which exceeds the normal water level in the said canal or ditch and an earth or gravel covering is placed on the lining which serves to hold it in place and protect it from abrasion.

157,051. **ATOMIZING NOZZLE FOR LIQUID FUELS.** Raymond L. Dills, Erie, Pa., assignor to General Electric Company, a corporation of New York. Filed Apr. 20, 1950. Published Mar. 18, 1952. Class 299—115. 1 sheet of drawings. 7 pages of specification.



This is a combination combustion nozzle for liquid fuel and air, in which liquid fuel is introduced through a conduit 8 into a central axial compartment 2, passes through radial openings 14 into a fuel portion 15 and then through radial grooves 16 in end plug 13 to vortex nozzle opening 3, from which the fuel is sprayed at a given angle depending upon the pressure of the fuel supplied. Combustion air enters through conduit 9 into an annular compartment 4, and is first guided inwardly toward and close to the fuel nozzle opening 3 and then is emitted through a pintle nozzle 5 at an angle with the axial center of the nozzle which is greater than the fuel spray angle. This produces a partial vacuum which tends to open up the fuel spray angle and assists mixing of fuel and air when the rate of fuel feed is low.

207,846. **METHOD OF PRESERVING EGGS.** John H. Moriarty, Medford, and Robert P. Joslin, Arlington, Mass., assignors to Massachusetts Institute of Technology, Cambridge, Mass., a corporation of Massachusetts. Filed Jan. 25, 1951. Published Mar. 18, 1952. Class 99—210. No drawing. 3 pages of specification.

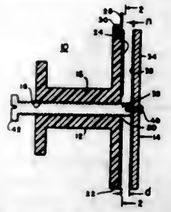
The application relates to methods of preserving eggs by removing the sugar from the egg whites as a part of the process of reducing the eggs to dry form. Fresh whole eggs are first separated according to well known techniques. The egg whites are then dialyzed to remove substantially all of the sugar therefrom. The dial-

ysis may be carried out by placing the egg whites on one side of a dialysis membrane, as for example cellophane or other suitable material, allowing the sugar in the egg whites to pass through the membrane into water or other suitable liquid medium. The dialyzed egg whites and the egg yolks are then dried and recombined, there being no substantial difference whether the recombination is carried out before or after the drying stage. The drying is preferably performed in one stage according to the usual techniques. Reduction of moisture to about 3% has been found sufficient. It is undesirable to dialyze the yolks since dialysis would remove constituents that contribute to the color and the food value of the yolks.

219,100. **VARIABLE CAPACITOR.** Abe Kampinsky, Belmar, N. J. Filed Apr. 3, 1951. Published Mar. 18, 1952. Class 175—41.5. 1 sheet of drawings. 5 pages of specification.

(Filed under the Act of March 3, 1883 as amended April 30, 1928; 370 O. G. 757

The variable capacitor is of the split-stator type, designed to have a maximum to minimum capacity ratio of at least 20:1, and comprises a stator unit of low-loss dielectric material with a pair of electrodes symmetrically disposed about a threaded aperture which extends through the dielectric. The rotor unit comprises a threaded shaft engaging the threaded aperture in the stator unit with an electrically conducting disk and a sheet of dielectric material overlying the



disk detachably mounted upon one end of the shaft so that the dielectric sheet lies between the rotor and stator electrodes to prevent short-circuiting. The thickness and the material of the dielectric sheet may be varied to provide different maximum capacities. Electrical connection to the capacitor is made through terminals affixed to the stator electrodes.

DESIGNS

MARCH 18, 1952

166,167
BATHING SUIT LINING
Sam Annis, New York, N. Y.
Application November 26, 1951, Serial No. 17,529
Term of patent 7 years
(Cl. D3—17)



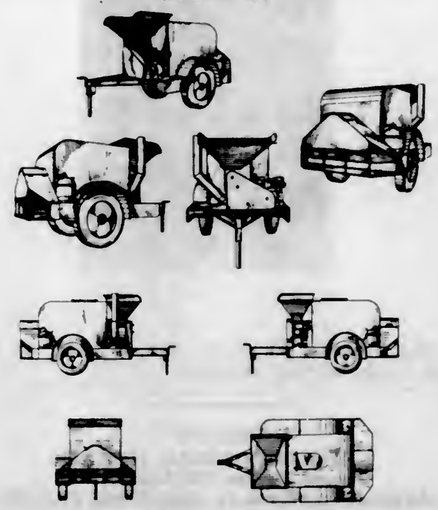
The ornamental design for a bathing suit lining, substantially as shown.

166,168
ELECTRIC LAMP OR SIMILAR ARTICLE
John C. Balyozian, Arlington, Mass.
Application April 3, 1951, Serial No. 14,705
Term of patent 7 years
(Cl. D48—20)



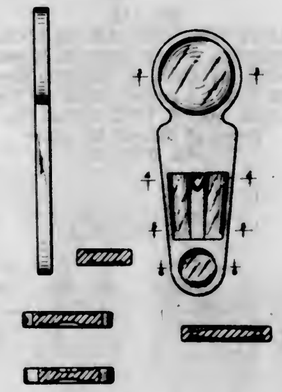
The ornamental design for an electric lamp or similar article, substantially as shown.

166,169
PAVEMENT REPAIRING MACHINE
Versal F. Baumgardner, Celina, Ohio
Application August 8, 1951, Serial No. 16,206
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a pavement repairing machine, substantially as shown.

166,170
MULTILENS MAGNIFIER
Albert H. Blum, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application November 21, 1951, Serial No. 17,491
Term of patent 14 years
(Cl. D57—1)



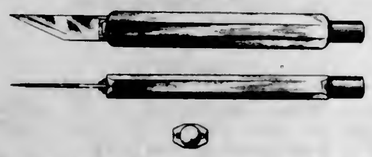
The ornamental design for a multilens magnifier, substantially as shown.

166,171
FABRIC OR THE LIKE
Simon Bochner, Yonkers, N. Y., assignor to Covington Fabrics Corporation, New York, N. Y., a corporation of New York
Application September 6, 1951, Serial No. 16,543
Term of patent 3½ years
(Cl. D92—1)



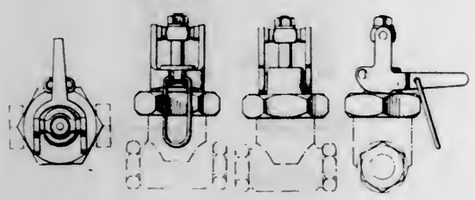
The ornamental design for a fabric or the like, as shown and described.

166,172
KNIFE OR SIMILAR ARTICLE
Benoni Bureau, Elmhurst, N. Y.
Application March 14, 1949, Serial No. 1,383
Term of patent 14 years
(Cl. D22—3)



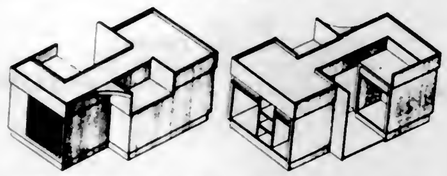
The ornamental design for a knife or similar article, substantially as shown and described.

166,173
VALVE OR SIMILAR ARTICLE
Lewis M. Burrows, North Quincy, Mass., assignor to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application May 4, 1951, Serial No. 15,069
Term of patent 14 years
(Cl. D91—3)



The ornamental design for a valve or similar article, substantially as shown and described.

166,174
CHECK STAND OR SIMILAR ARTICLE
Wayland H. Crawford, San Gabriel, Calif., assignor to Modern Village Stores, Inc.
Application November 3, 1951, Serial No. 17,275
Term of patent 14 years
(Cl. D80—2)



The ornamental design for a check stand or similar article, as shown.

166,175
EMBROIDERED FABRIC
Rudolph Dannecker, New York, N. Y.
Application October 4, 1951, Serial No. 16,826
Term of patent 3½ years
(Cl. D92—1)



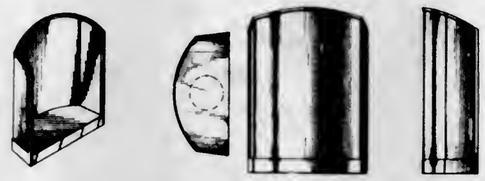
The ornamental design for an embroidered fabric, substantially as shown and described.

166,176
EMBROIDERED FABRIC
Rudolph Dannecker, New York, N. Y.
Application November 6, 1951, Serial No. 17,310
Term of patent 3½ years
(Cl. D3—9)



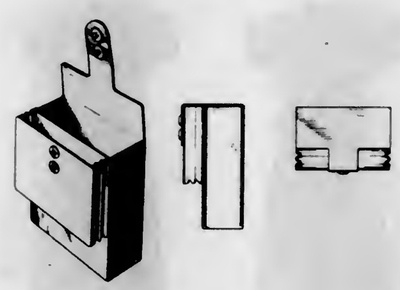
The ornamental design for an embroidered fabric, substantially as shown.

166,177
TELEVISION LAMP
William N. de Sherbinin, Brookfield, Conn.
Application March 16, 1951, Serial No. 14,522
Term of patent 14 years
(Cl. D48—20)



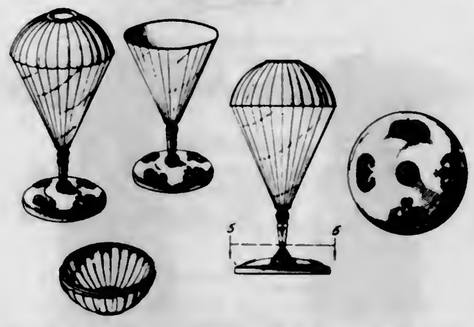
The ornamental design for a television lamp, substantially as shown and described.

166,178
COMBINED CIGARETTE AND CIGARETTE LIGHTER CASE
Marcelle D'Orsay, New York, N. Y.
Substituted for abandoned application Serial No. 14,015, January 27, 1951. This application December 12, 1951, Serial No. 17,712
Term of patent 14 years
(Cl. D85—2)



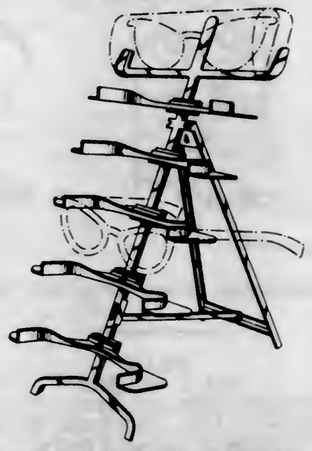
The ornamental design for a combined cigarette and cigarette lighter case, as shown.

166,179
GOBLET
John T. Dowd, Aldan, Pa.
Application December 17, 1951, Serial No. 17,758
Term of patent 14 years
(Cl. D36—8)



The ornamental design for a goblet, substantially as shown.

166,180
DISPLAY STAND FOR SUNGLASSES OR THE LIKE
Joseph C. Foster, Leominster, Mass., assignor to Foster Grant Co., Inc., Leominster, Mass., a corporation of Massachusetts
Application December 15, 1951, Serial No. 17,746
Term of patent 14 years
(Cl. D80—9)



The ornamental design for a display stand for sunglasses or the like, substantially as shown and described.

166,181
EYE PROTECTOR
Fred G. Gay, Jr., Greece, and Donald J. McCulloch, Rochester, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application December 15, 1951, Serial No. 17,748
Term of patent 14 years
(Cl. D57—1)



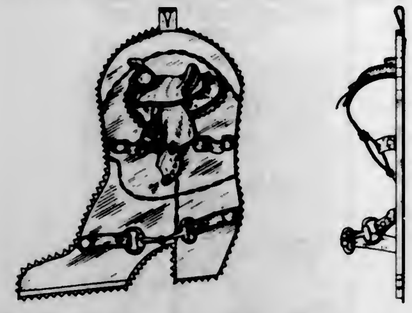
The ornamental design for an eye protector, substantially as shown and described.

166,182
EVAPORATIVE COOLER
Adam D. Goettl, Phoenix, Ariz.
Application September 18, 1951, Serial No. 16,676
Term of patent 7 years
(Cl. D62—4)



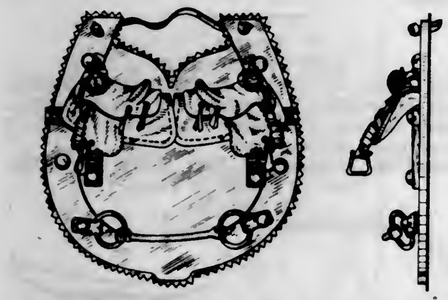
The ornamental design for an evaporative cooler, as shown.

166,183
WALL PLAQUE
Morris E. Goldstein, Denver, Colo.
Application July 21, 1951, Serial No. 15,978
Term of patent 7 years
(Cl. D29—23)



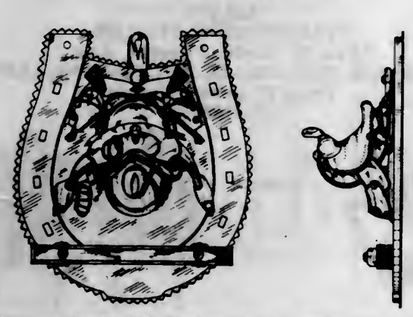
The ornamental design for a wall plaque, as shown.

166,184
WALL PLAQUE
Morris E. Goldstein, Denver, Colo.
Application July 21, 1951, Serial No. 15,979
Term of patent 7 years
(Cl. D29—23)



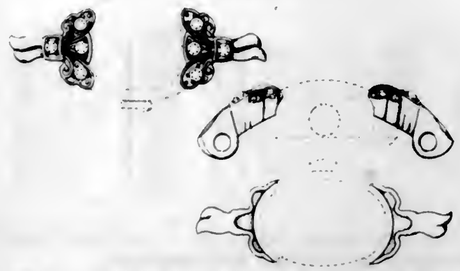
The ornamental design for a wall plaque, as shown.

166,185
WALL PLAQUE
Morris E. Goldstein, Denver, Colo.
Application July 21, 1951, Serial No. 15,980
Term of patent 7 years
(Cl. D29—23)



The ornamental design for a wall plaque, as shown.

166,186
WATCHCASE
Joseph Granat, San Francisco, Calif.
Application December 10, 1951, Serial No. 17,678
Term of patent 14 years
(Cl. D42—8)



The ornamental design for a watch case, substantially as shown and described.

166,187
KNITTED DRESS
Edward Guttman, New York, N. Y.
Application November 14, 1951, Serial No. 17,404
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a knitted dress, substantially as shown.

166,188
KNITTED DRESS
Edward Guttman, New York, N. Y.
Application November 14, 1951, Serial No. 17,405
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a knitted dress, substantially as shown.

166,189
KNITTED DRESS
Edward Guttman, New York, N. Y.
Application November 14, 1951, Serial No. 17,406
Term of patent 3½ years
(Cl. D3—26)



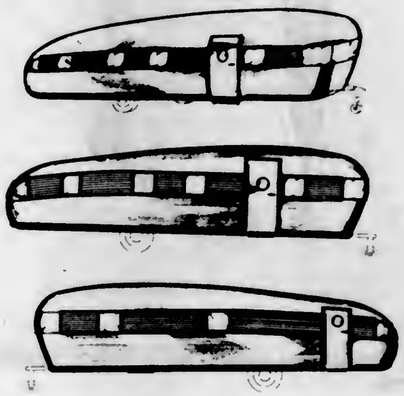
The ornamental design for a knitted dress, substantially as shown.

166,190
KNITTED DRESS
Edward Guttman, New York, N. Y.
Application November 14, 1951, Serial No. 17,408
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a knitted dress, substantially as shown.

166,191
TRAILER
D. G. Hadges, Rosemead, Los Angeles County, Calif.
Application August 8, 1949, Serial No. 4,366
Term of patent 14 years
(Cl. D14—3)

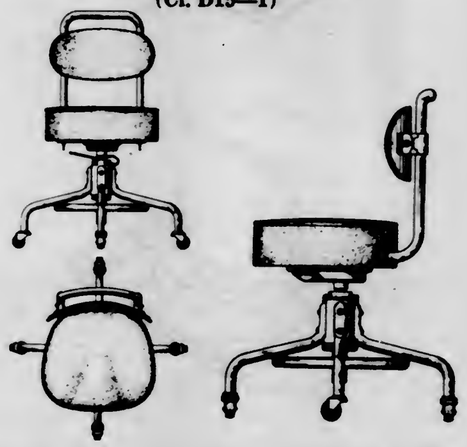


166,191—Continued



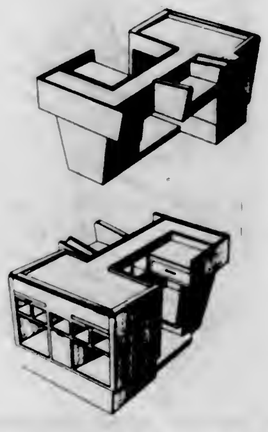
The ornamental design for a trailer, as shown and described.

166,192
CHAIR
Bertis F. Hamilton, Columbus, Ind.
Application November 27, 1950, Serial No. 13,141
Term of patent 14 years
(Cl. D15—1)



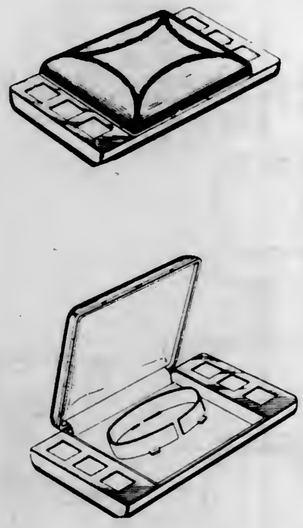
The ornamental design for a chair, as shown.

166,193
CHECK STAND OR SIMILAR ARTICLE
Frederick W. Hartup, Puente, Calif., assignor to Modern Village Stores, Inc.
Application November 15, 1951, Serial No. 17,418
Term of patent 14 years
(Cl. D80—2)



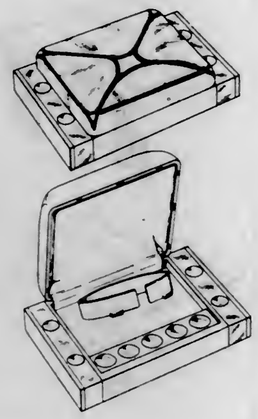
The ornamental design for a check stand or similar article, as shown.

166,194
BOX FOR WRIST WATCH AND PARTS THEREFOR
Jules Howard, San Jose, Calif.
Application August 16, 1949, Serial No. 4,531
Term of patent 14 years
(Cl. D80—5)



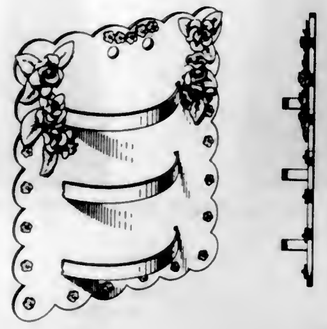
The ornamental design for a box for wrist watch and parts therefor, as shown.

166,195
BOX FOR WRIST WATCH AND PARTS THEREFOR
Jules Howard, San Jose, Calif.
Application August 16, 1949, Serial No. 4,532
Term of patent 14 years
(Cl. D80—5)



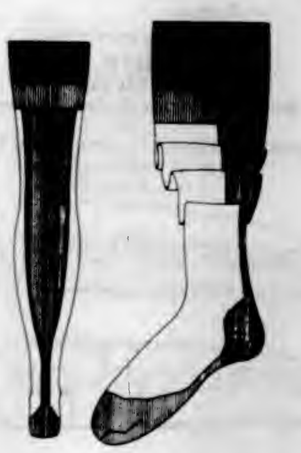
The ornamental design for a box for wrist watch and parts therefor, as shown.

166,196
EARRING HOLDER OR SIMILAR ARTICLE
Dorothy Johns, Fort Worth, Tex., assignor of one-half to George D. Berdan, Fort Worth, Tex.
Application May 22, 1951, Serial No. 15,279
Term of patent 14 years
(Cl. D80—9)



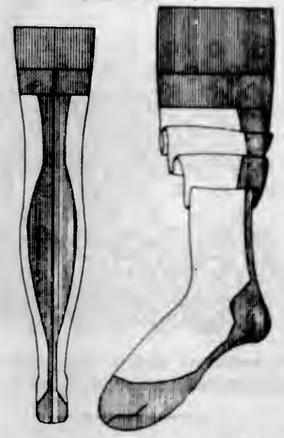
The ornamental design for an earring holder or similar article, substantially as shown.

166,197
LADY'S STOCKING
Nathaniel Judson, New York, N. Y., assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application August 14, 1951, Serial No. 16,271
Term of patent 14 years
(Cl. D47—7)



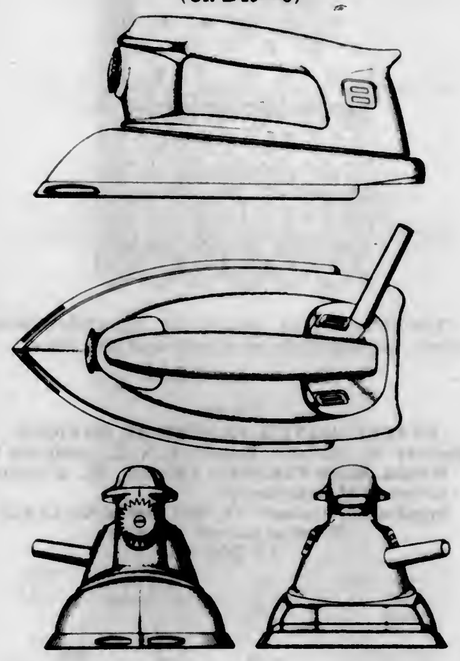
The ornamental design for a lady's stocking, as shown.

166,198
LADY'S STOCKING
Nathaniel Judson, New York, N. Y., assignor to Mojud Hosiery Co., Inc., Long Island City, N. Y., a corporation of Delaware
Application August 14, 1951, Serial No. 16,273
Term of patent 14 years
(Cl. D47—7)



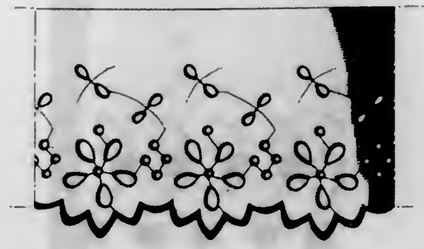
The ornamental design for a lady's stocking, as shown.

166,199
ELECTRIC IRON
Clarence Karstadt, Glen Ellyn, Ill., assignor to Birtman Electric Company, a corporation of Illinois
Application June 8, 1951, Serial No. 15,464
Term of patent 14 years
(Cl. D49—6)



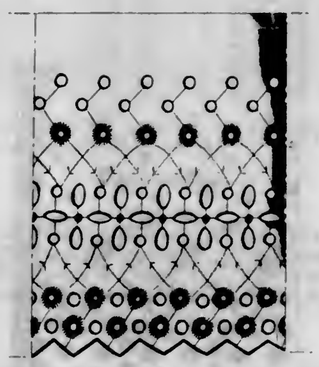
The ornamental design for an electric iron, substantially as shown.

166,200
EMBROIDERED FABRIC
Herman Krieger, New York, N. Y., assignor to Kaufman & Krieger, Inc., New York, N. Y.
Application October 17, 1951, Serial No. 16,987
Term of patent 3½ years
(Cl. D92—1)



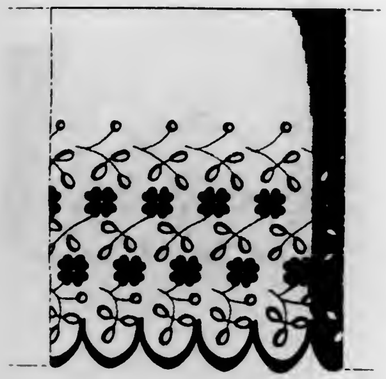
The ornamental design for an embroidered fabric, substantially as shown and described.

166,201
EMBROIDERED FABRIC
Herman Krieger, New York, N. Y., assignor to Kaufman & Krieger, Inc., New York, N. Y.
Application October 17, 1951, Serial No. 16,989
Term of patent 3½ years
(Cl. D92—1)



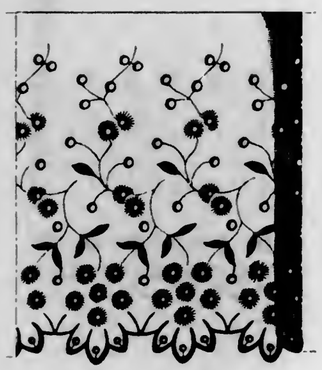
The ornamental design for an embroidered fabric, substantially as shown and described.

166,202
EMBROIDERED FABRIC
Herman Krieger, New York, N. Y., assignor to Kaufman & Krieger, Inc., New York, N. Y.
Application October 20, 1951, Serial No. 17,047
Term of patent 3½ years
(Cl. D92—1)



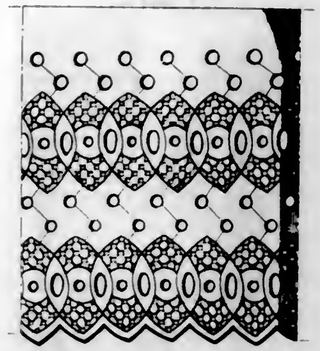
The ornamental design for an embroidered fabric, substantially as shown and described.

166,203
EMBROIDERED FABRIC
Herman Krieger, New York, N. Y., assignor to Kaufman & Krieger, Inc., New York, N. Y.
Application October 29, 1951, Serial No. 17,148
Term of patent 3½ years
(Cl. D92—1)



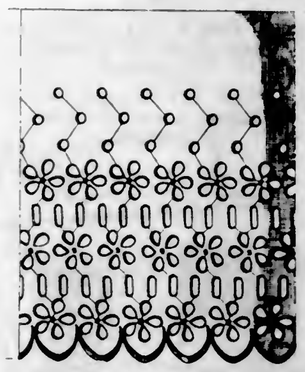
The ornamental design for an embroidered fabric, substantially as shown and described.

166,204
EMBROIDERED FABRIC
Herman Krieger, New York, N. Y., assignor to Kaufman & Krieger, Inc., New York, N. Y.
Application October 29, 1951, Serial No. 17,149
Term of patent 3½ years
(Cl. D92—1)



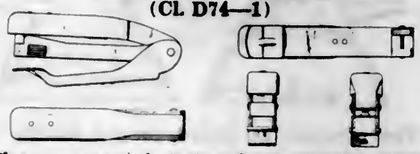
The ornamental design for an embroidered fabric, substantially as shown and described.

166,205
EMBROIDERED FABRIC
Herman Krieger, New York, N. Y., assignor to Kaufman & Krieger, Inc., New York, N. Y.
Application October 29, 1951, Serial No. 17,150
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for an embroidered fabric, substantially as shown and described.

166,206
STAPLE DRIVER OR SIMILAR ARTICLE
Herbert W. Marano, Brooklyn, N. Y., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application January 30, 1951, Serial No. 14,038
Term of patent 14 years
(Cl. D74—1)



The ornamental design for a staple driver or similar article, as shown and described.

166,207
WINDOW FOR AN OUTSIDE DOOR
John C. McNally and Samuel F. Fuston, Jr., Fort Worth, Tex.
Application March 30, 1950, Serial No. 8,866
Term of patent 14 years
(Cl. D13—1)



The ornamental design for a window for an outside door, substantially as shown.

166,208
PAPER NAPKIN OR THE LIKE
Joseph F. Meyer, St. Paul, Minn.
Application July 19, 1948, Serial No. 147,657
Term of patent 14 years
(Cl. D59—2)



The ornamental design for a paper napkin or the like, substantially as shown and described.

166,209
DINNER PLATE OR SIMILAR ARTICLE
Carlton L. Nelson, East Aurora, N. Y., assignor to John Wanamaker Philadelphia, Philadelphia, Pa., a corporation of Pennsylvania
Application January 12, 1951, Serial No. 13,778
Term of patent 7 years
(Cl. D44—15)



The ornamental design for a dinner plate or similar article, as shown.

166,210
WOVEN PLASTIC FABRIC
Vaclav Petracek, Long Island City, N. Y., assignor to Hafner Associates, Inc., New York, N. Y.
Application October 17, 1951, Serial No. 16,997
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a woven plastic fabric, substantially as shown.

166,211
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 11, 1951, Serial No. 17,683
Term of patent 7 years
(Cl. D45—19)



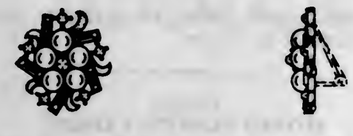
The ornamental design for a brooch or similar article, substantially as shown.

166,212
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,855
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

166,213
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,856
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

166,214
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,857
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,215
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,858
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,216
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,859
Term of patent 7 years
(Cl. D45—19)



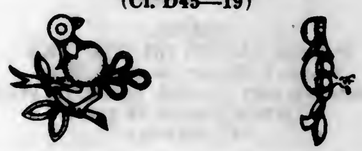
The ornamental design for a brooch or the like, substantially as shown.

166,217
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,860
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,218
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,861
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,219
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,918
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,220
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,919
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,221
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,920
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,222
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,923
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,223
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 21, 1952, Serial No. 18,126
Term of patent 7 years
(Cl. D45—9)



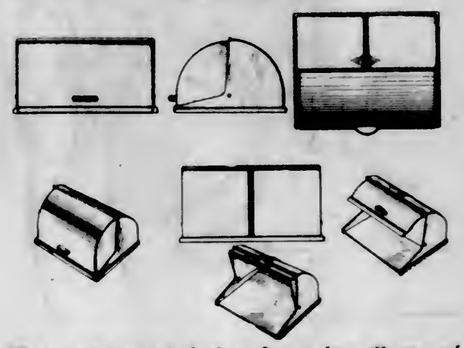
The ornamental design for an earring or the like, substantially as shown.

166,224
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 30, 1952, Serial No. 18,296
Term of patent 7 years
(Cl. D45—9)



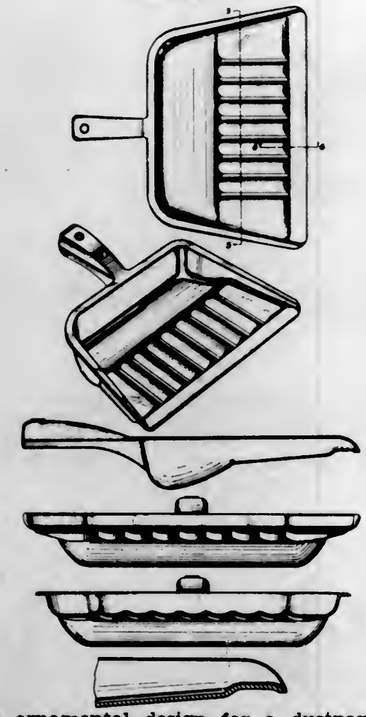
The ornamental design for an earring or the like, substantially as shown.

166,225
BREADBOX
Samuel J. Popell, Chicago, Ill.
Application March 26, 1951, Serial No. 14,621
Term of patent 14 years
(Cl. D44—5)



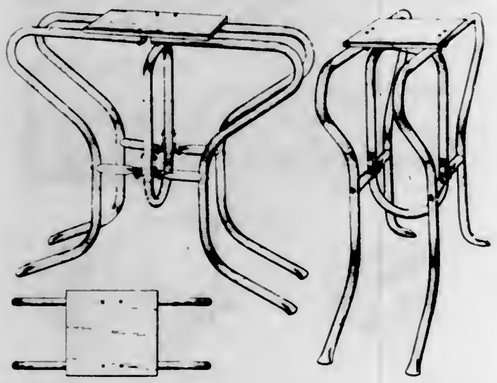
The ornamental design for a breadbox, substantially as shown.

166,226
DUSTPAN
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application January 10, 1952, Serial No. 17,983
Term of patent 14 years
(Cl. D44—18)

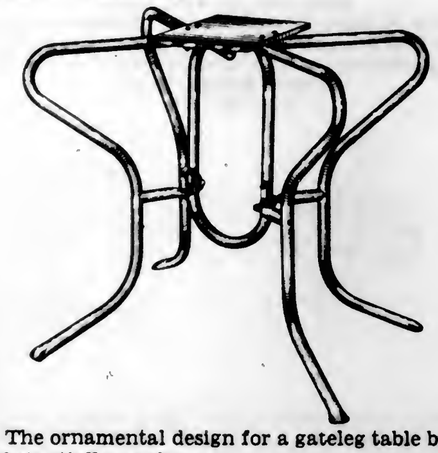


The ornamental design for a dustpan, substantially as shown.

166,227
GATELEG TABLE BASE
Albert Sachs, Chicago, Ill.
Application November 3, 1951, Serial No. 17,251
Term of patent 7 years
(Cl. D33—14)

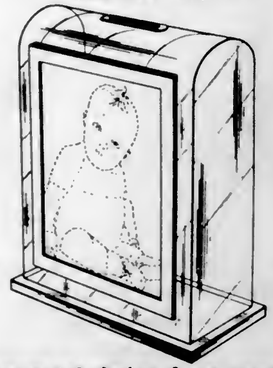


166,227—Continued



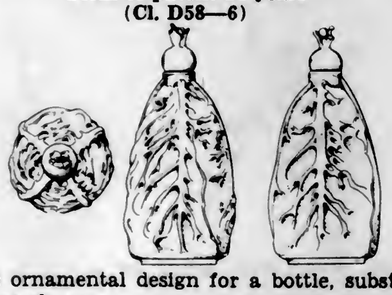
The ornamental design for a gateleg table base, substantially as shown.

166,228
COMBINED BANK AND PICTURE FRAME
Berle B. Salmon, Montreal, Quebec, Canada, assignor to Edith Jacques Clark, Westmont, Quebec, Canada
Application September 19, 1950, Serial No. 12,257
Term of patent 7 years
(Cl. D34—11)



The ornamental design for a combined bank and picture frame, as shown and described.

166,229
BOTTLE
Nathan W. Schwartz, Bronx, N. Y.
Application November 15, 1951, Serial No. 17,414
Term of patent 14 years
(Cl. D58—6)



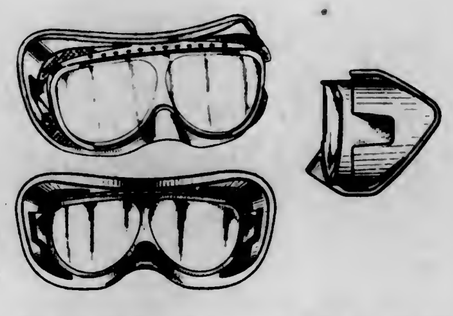
The ornamental design for a bottle, substantially as shown.

166,230
ANGLE HEAD METAL-CUTTING SHEARS
Willie M. Shoffner, Dayton, Ohio
Application May 3, 1951, Serial No. 15,048
Term of patent 14 years
(Cl. D22—5)



The ornamental design for an angle head metal-cutting shears, substantially as shown.

166,231
GOGGLE FRONT
Raymond F. E. Stegeman and Fred G. Gay, Jr., Greece, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application December 15, 1951, Serial No. 17,747
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a goggle front, substantially as shown.

166,232
MAN'S SOCK
Raymond A. Torgersen, Burlington, N. C., assignor to Standard Hosiery Mills, Inc., a corporation of North Carolina
Application May 25, 1951, Serial No. 15,307
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a man's sock, substantially as shown and described.

166,233
MAN'S SOCK
Raymond A. Torgersen, Burlington, N. C., assignor to Standard Hosiery Mills, Inc., a corporation of North Carolina
Application May 25, 1951, Serial No. 15,310
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a man's sock, substantially as shown and described.

166,234
PLACE MAT

Geoffrey H. Wood and Robert Mulholland, Toronto, Ontario, Canada, assignors to G. H. Wood and Company Limited, Toronto, Ontario, Canada

Application June 7, 1951, Serial No. 15,454
Term of patent 3½ years
(Cl. D59—2)

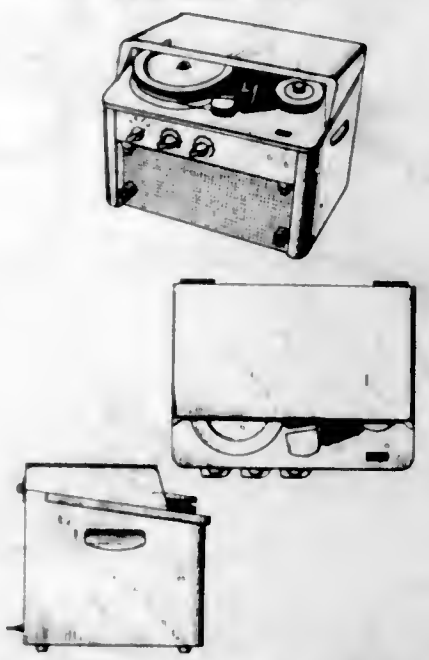


The ornamental design for a place mat, as shown and described.

166,235
WIRE RECORDER

Benjamin J. Zapolski, New York, N. Y., assignor to Telectro Industries Corp., Long Island City, N. Y., a corporation

Application October 1, 1951, Serial No. 16,790
Term of patent 14 years
(Cl. D26—14)



The ornamental design for a wire recorder, as shown.

Official Gazette

Containing the Patents, Trade-Marks, & Designs issued

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A. Boake, Roberts & Company Limited, London, England. Concentrated powdered flavourings. Serial No. 549,878, Mar. 25. Class 46.

Abbott Laboratories, North Chicago, Ill. Estrogenic preparation. Serial No. 592,114, Mar. 25. Class 18.

Abbott Laboratories, North Chicago, Ill. Preparation for use as an analgesic and in certain cardiac disturbances. Serial No. 609,835, Mar. 25. Class 18.

Abrasive Machine Tool Company, East Providence, R. I. Power operated surface grinders. Serial No. 604,173, Mar. 25. Class 23.

Advance Solvents & Chemical Corporation, New York, N. Y. Plastic resinous compositions, synthetic resins, etc. Serial No. 606,406, Mar. 25. Class 6.

Air Crest Products Company, Chicago, Ill. Rug and carpet cushions. Serial No. 614,803, Mar. 25. Class 50.

All Precision Engineering Limited, Newdigate, England. Workholding clamps. Serial No. 588,154, Mar. 25. Class 23.

All-Weather Aluminum Awnings, Inc., Silver Hill, Md., and Washington, D. C. Rigid metal awnings. Serial No. 584,476, Mar. 25. Class 12.

American Alcolac Corporation, New York, N. Y. Detergents. Serial No. 580,167, Mar. 25. Class 52.

American Anode Inc., Wilmington, Del., and Akron, Ohio. Liquid dispersions of plastic materials. Serial No. 578,122, Mar. 25. Class 6.

American Bottle Closure Corporation, New York, N. Y. Combination bottle stopper and dispensing spout. Serial No. 613,356, Mar. 25. Class 50.

American Grease Stick Company, Muskegon Heights and Muskegon, Mich. Preparations which clean and polish automobiles. Serial No. 598,776, Mar. 25. Class 4.

American Mat Corporation, Toledo, Ohio. Protective and cushioning mats and rugs. Serial No. 604,181, Mar. 25. Class 50.

American Meter Company, New York, N. Y. Gas pressure regulators. Serial No. 571,065, Mar. 25. Class 13.

American Ossacryl Company: *See*—
Rosenstein, Max.

Anabolic Food Products, Inc., Glendale, Calif. Medicinal preparations. Serial No. 541,066, Mar. 25. Class 18.

Archer Rubber Company, Milford, Mass. Rubber or rubberized raincoats. Serial No. 565,098, Mar. 25. Class 39.

Armstrong Rubber Company, The, West Haven, Conn. Pneumatic tire casings. Serial No. 592,245, Mar. 25. Class 35.

Associated Concentrates Inc., New York and Woodside, N. Y. Vitamin composition. Serial No. 608,735, Mar. 25. Class 18.

Atlantic Clothing Co., Inc., New York, N. Y. Men's and boys' suits, topcoats, overcoats, etc. Serial No. 618,282, Mar. 25. Class 39.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Coating or lining material. Serial No. 589,243, Mar. 25. Class 12.

Attapulgus Clay Company, Philadelphia, Pa. Low volatile fuller's earth. Serial No. 616,618, Mar. 25. Class 1.

Automatic Pump & Softener Corporation, assignee: *See*—
Water Treaters, Inc.

Barker, Moore & Mein Company, Philadelphia, Pa. Swine feed supplement. Serial No. 611,333, Mar. 25. Class 18.

Beta Gamma Sigma Fraternity, Cincinnati, Ohio. Fraternity pins, finger rings, buttons and badges. Serial No. 615,208, Mar. 25. Class 28.

Bienfang Products Corporation, Metuchen, N. J. Paper illustration board. Serial No. 615,437, Mar. 25. Class 37.

Black Panther Tool Company, Philadelphia, Pa. Wax. Serial No. 615,679, Mar. 25. Class 4.

Blancard & Co., Inc, New York, N. Y. Watches. Serial No. 615,621, Mar. 25. Class 27.

Bonne Bell, Inc., Lakewood, Ohio. Cologne. Serial No. 565,537, Mar. 25. Class 51.

Borg, George W., Corporation, The, Chicago, Ill., and Delavan, Wis. Automobile clocks. Serial No. 610,044, Mar. 25. Class 27.

Boston Table Mfg. Co., Inc., Boston, Mass. Dinette sets. Serial No. 616,274, Mar. 25. Class 32.

Brabender Corporation, Rochelle Park, N. J. Charts. Serial No. 618,148, Mar. 25. Class 38.

Brauer Bros. Mfg. Co., St. Louis, Mo. Holsters and cartridge carriers. Serial No. 616,813, Mar. 25. Class 9.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Fungicidal ointment. Serial No. 607,696, Mar. 25. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Streptomycin ear and nose drops. Serial No. 607,697, Mar. 25. Class 18.

Bristol Laboratories Inc., New York and Syracuse, N. Y. Penicillin ear and nose drops. Serial Nos. 607,698–9, Mar. 25. Class 18.

Brownsey, L. M., doing business as L. M. Brownsey Supply Co., Chicago, Ill. Liquid floor cleaner, white tire cleaner, and a combination penetrating floor cleaner and grease solvent. Serial No. 577,366, Mar. 25. Class 52.

Brownsey, L. M., Supply Co.: *See*—
Brownsey, L. M.

Burlington Mills Corporation, Greensboro, N. C. Piece goods. Serial No. 551,689, Mar. 25. Class 42.

Butler's, Inc., Atlanta, Ga. Ladies' handbags. Serial No. 608,055, Mar. 25. Class 3.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. Serial No. 612,384, Mar. 25. Class 11.

Cal-Crop Seeds, Inc., San Francisco, Calif. Field and pasture seeds. Serial No. 612,727, Mar. 25. Class 1.

Carpenter Steel Company, The, Reading, Pa. Steel. Serial No. 596,013, Mar. 25. Class 14.

Carya Hickory Industries, Stamford, Conn. Hickory disks. Serial No. 615,622, Mar. 25. Class 1.

Ceco Steel Products Corporation, Chicago, Ill. Metal ventilators. Serial No. 583,676, Mar. 25. Class 34.

Champion Textile Finishing Co., Chicago, Ill. Liquid composition for the weather-proofing of fabrics and leather. Serial No. 600,814, Mar. 25. Class 6.

Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Sedative and antispasmodic. Serial No. 607,942, Mar. 25. Class 18.

Ciba Limited, Basel, Switzerland. Coal-tar colors. Serial No. 617,228, Mar. 25. Class 6.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Ciba Limited.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparation. Serial No. 582,273, Mar. 25. Class 18.

Comfort Equipment Company, Kansas City, Mo. Tractor cover, tractor umbrella, etc. Serial No. 610,412, Mar. 25. Class 23.

Commercial Solvents Corporation, New York, N. Y. Ingredients or supplements of foods. Serial No. 607,795, Mar. 25. Class 18.

Commercial Solvents Corporation, New York, N. Y. Antibiotic feed supplement. Serial No. 608,034, Mar. 25. Class 18.

Commercial Solvents Corporation, New York, N. Y. Blood plasma substitute. Serial No. 616,368, Mar. 25. Class 18.

Corbin, William L., doing business under the assumed business name of Corbin's Optical Center, Portland, Oreg. Eyeglasses. Serial No. 617,784, Mar. 25. Class 26.

Corbin's Optical Center: *See*—
Corbin, William L.

Cornell, G. L., Company: *See*—
Cornell, George L.

Cornell, George L., doing business under the name and style of G. L. Cornell Company, Bethesda, Md. Servicing and repair of turf maintenance equipment. Serial No. 616,162, Mar. 25. Class 103.

Crown Togs Sportswear Co., New York, N. Y. Men's, boys' and children's outer garments. Serial No. 618,268, Mar. 25. Class 39.

Curzon, Matt, New York, N. Y. Comic strip. Serial No. 617,341, Mar. 25. Class 38.

Cussins and Fearn Company, The, Columbus, Ohio. Enameled kitchen utensils, aluminum kitchen utensils, etc. Serial No. 551,773, Mar. 25. Class 2.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. Serial Nos. 612,948–50, Mar. 25. Class 51.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. Serial No. 612,953, Mar. 25. Class 51.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. Serial No. 612,956, Mar. 25. Class 51.

Dana Perfumes, Inc., Chicago, Ill., assignor to Les Parfums de Dana, Inc., New York, N. Y. Lipstick. Serial No. 612,957, Mar. 25. Class 51.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. Serial No. 612,958, Mar. 25. Class 51.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. Serial No. 612,960, Mar. 25. Class 51.

Davis & Geck, Inc., Brooklyn, N. Y. Sterile surgical suture set. Serial No. 616,279, Mar. 25. Class 44.

Day's Tailor-D Clothing, Inc., Tacoma, Wash. Trousers, suits, knickers, breeches, etc. Serial No. 606,858, Mar. 25. Class 39.

Dayton Rubber Company, The, Dayton, Ohio. Vehicle tires. Serial No. 597,256, Mar. 25. Class 35.

Decto Products Co., Salem, Mass. Stick of wax composition material. Serial No. 606,970, Mar. 25. Class 15.

Dehn & Co., Inc., Seattle, Wash. Canned salmon. Serial No. 618,568, Mar. 25. Class 46.

Diamond Whip Company: *See*—
Soreghen, George L.
Dixie Fire Kindler Company, Sea Island, Ga., and Hollicong, Pa. Packaged wooden fuel chips. Serial No. 596,987, Mar. 25. Class 1.
Double Five Products, Inc., Washington, D. C. Traveling and utility cases. Serial No. 612,313, Mar. 25. Class 3.
Draper Brothers Company, Canton, Mass. Hooded ski jacket. Serial No. 606,702, Mar. 25. Class 39.
Duncan, Thomas P., Jr., doing business as Silhouette, Newport News, Va. Vases, bowls and goblets. Serial No. 615,307, Mar. 25. Class 30.
Duncan, Thomas P., Jr., doing business as Silhouette, Newport News, Va. Vases, bowls, and goblets. Serial No. 615,309, Mar. 25. Class 33.
Edmont Manufacturing Company, Coshocton, Ohio. Household and work gloves. Serial No. 618,291, Mar. 25. Class 39.
Edwal Laboratories, Inc., The, Ringwood, Ill. Chemical preparations. Serial No. 615,603, Mar. 25. Class 6.
Fake, Warren H., Ephrata, Pa. Men's, women's, children's underwear, pajamas, robes, etc. Serial No. 592,199, Mar. 25. Class 39.
Farley Manufacturing Company, Skokie, Ill. Candles. Serial No. 529,618, Mar. 25. Class 46.
Fatties Anonymous, Inc., New York, N. Y. Assisting individuals affected with obesity. Serial Nos. 609,716–18, Mar. 25. Class 107.
Finger Lakes Chemical Company, Inc., Ithaca and Etna, N. Y. Synthetic soap. Serial No. 576,116, Mar. 25. Class 52.
Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils, aromatic chemicals. Serial No. 602,254, Mar. 25. Class 18.
Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.
Flexible Tubing Corporation, The, Guilford, Conn. Flexible tubing. Serial No. 609,920, Mar. 25. Class 35.
Flintkote Company, The, New York, N. Y. Asbestos cement shingles and sidings. Serial No. 616,204, Mar. 25. Class 12.
Foods Plus, Inc., New York, N. Y. Multiple vitamin preparations. Serial No. 604,428, Mar. 25. Class 18.
Ford, Walter, and Associates: *See*—
Ford, Walter L.
Ford, Walter L., doing business under the fictitious name and style of Walter Ford and Associates, Sacramento, Calif. Small sections of food mounted in line on a stick. Serial No. 603,152, Mar. 25. Class 46.
Gemsco, Inc., New York, N. Y. Web belts. Serial No. 617,243, Mar. 25. Class 39.
Gerson-Stewart Corporation Company, The, Cleveland, Ohio. Cleaning powder. Serial No. 610,013, Mar. 25. Class 52.
Glaser, Crandell Co., Chicago, Ill. Berry preserves. Serial No. 603,921, Mar. 25. Class 46.
Gleason, John P., Mfg. Company: *See*—
Gleason, Lorine V.
Gleason, Lorine V., doing business as John P. Gleason Mfg. Company, Los Angeles, Calif. Rubber-like table place mats. Serial No. 598,647, Mar. 25. Class 50.
Goldberg, Bernard, New York, N. Y. Brushes and puffs. Serial No. 613,293, Mar. 25. Class 29.
Goodenow-Morley Company, also doing business under the style name of Mid-West Associates, Oklahoma City, Okla. Plastic adhesive and sealing product. Serial No. 607,587, Mar. 25. Class 5.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Garden hose. Serial No. 618,851, Mar. 25. Class 35.
Gorham Manufacturing Company, Providence, R. I. Sterling silver flatware, hollowware and table cutlery. Serial No. 615,383, Mar. 25. Class 28.
Gorham Manufacturing Company, Providence, R. I. Sterling silver flatware, hollowware and table cutlery. Serial No. 615,772, Mar. 25. Class 28.
Greatrex Ltd., New York, N. Y. Leather goods. Serial No. 598,359, Mar. 25. Class 3.
Greene, Tweed & Co., North Wales, Pa. Polishing leathers, leather polishing wheels, etc. Serial Nos. 573,244–6, Mar. 25. Class 4.
Griggs, Cooper & Company, St. Paul, Minn. Canned vegetables, canned fruits, canned seafoods, etc. Serial No. 592,486, Mar. 25. Class 46.
Haggar Company, Dallas, Tex. Men's and boys' trousers, riding breeches, sport shirts, etc. Serial No. 547,446, Mar. 25. Class 39.
Hairnet Corporation of America, New York, N. Y. Hair roll foundations. Serial No. 615,704, Mar. 25. Class 40.
Hamill, Annette C., Bethlehem, Pa. Adjustable metal tracks. Serial No. 602,259, Mar. 25. Class 13.
Hardwick Stove Company, Inc., Cleveland, Tenn. Gas cooking ranges. Serial No. 616,819, Mar. 25. Class 34.
Harlan-Wallins Coal Corporation, Verda, Ky. Coal. Serial Nos. 616,703–4, Mar. 25. Class 1.
Harms of California Glove Company: *See*—
Harms, Richard H.
Harms, Richard H., doing business as Harms of California Glove Company, San Francisco, Calif. Misses' and ladies' fabric gloves. Serial No. 616,426, Mar. 25. Class 39.
Hart Products Corporation, New York, N. Y. Water insoluble wetting out agent. Serial No. 613,913, Mar. 25. Class 6.
Hearst Corporation, The, New York, N. Y. Magazine. Serial No. 618,496, Mar. 25. Class 38.
Histamist Corporation, The, Chicago, Ill. Nasal drops. Serial No. 603,790, Mar. 25. Class 18.
Home Decorators, Inc., Newark, N. Y. Chinaware. Serial No. 608,163, Mar. 25. Class 30.
Hubbard Pants Company, Inc., Bremen, Ga. Men's and boys' trousers. Serial No. 606,143, Mar. 25. Class 39.
Huber, J. M., Corporation, Red Bank, N. J., and New York, N. Y. Clay. Serial No. 616,635, Mar. 25. Class 1.
Hudnut, Richard, New York, N. Y. Lipstick and nail lacquer. Serial No. 613,072, Mar. 25. Class 51.
Huntington Laboratories, Inc., Huntington, Ind. Dry cleaning soap. Serial No. 595,723, Mar. 25. Class 52.
Independent Milwaukee Brewery, Milwaukee, Wis. Beer. Serial No. 560,704, Mar. 25. Class 48.
Indian Creek Farms: *See*—
Steele, Lewis M.
International Sales Company, San Francisco, Calif. Gas furnaces. Serial No. 567,320, Mar. 25. Class 34.
International Salt Company, Scranton, Pa. Salt dissolving devices. Serial No. 582,690, Mar. 25. Class 23.
Jacobs Manufacturing Company, The, Hartford, Conn. Chucks. Serial No. 618,319, Mar. 25. Class 23.
Joseph & Feiss Co., The, Cleveland, Ohio. Men's suits. Serial No. 605,746, Mar. 25. Class 39.
Juliette Frocks: *See*—
Juliette Frocks, Inc.
Juliette Frocks, Inc., Chicago, Ill., assignee of Sam Rothbart, doing business as Juliette Frocks. Ladies' dresses. Serial No. 456,929, Mar. 25. Class 39.
Kenton Pharmacal Co., The, Covington, Ky. Hair coloring preparation. Serial No. 616,110, Mar. 25. Class 51.
Kermath Manufacturing Company, Detroit, Mich. Explosive engines, non-self-measuring pumps, clutches, etc. Serial No. 592,817, Mar. 25. Class 23.
Keuffel & Esser Company, Hoboken, N. J. Ink eradicator. Serial No. 602,765, Mar. 25. Class 52.
Keystone Wire Cloth Company, Hanover, Pa. Wire cloth. Serial No. 616,036, Mar. 25. Class 13.
Kniepkamp, Hanns P., assignee: *See*—
Kniepkamp, Heinrich E.
Kniepkamp, Heinrich E., Heilbronn (Neckar), West Germany, assignor to Hanns P. Kniepkamp, Trumansburg, N. Y. Closures for containers, vessels and bottles. Serial No. 612,289, Mar. 25. Class 50.
Knothe Brothers Co. Inc., New York, N. Y. Men's and boys' leather belts. Serial No. 612,921, Mar. 25. Class 39.
Kress, S. H., and Company, New York, N. Y. Buttons, needles, snap fasteners, etc. Serial No. 618,265, Mar. 25. Class 40.
Latrobe Electric Steel Company, Latrobe, Pa. Die steel. Serial No. 573,781, Mar. 25. Class 14.
Leathercraft, Inc., Chicago, Ill. Brief cases. Serial No. 575,915, Mar. 25. Class 3.
Leggett, Francis H., & Company, New York, N. Y. Canned berries, canned and bottled fruits, dried fruits, etc. Serial No. 600,492, Mar. 25. Class 46.
Leo Corporation, assignee: *See*—
Motor Chemical Corporation.
Leslie Co., Lyndhurst, N. J. Hand-operated valves, whistle valves, pressure-reducing valves, etc. Serial No. 537,597, Mar. 25. Class 13.
Les Parfums de Dana, Inc.: *See*—
Dana Perfumes, Inc.
Levitt, Daniel, New York, N. Y. Ladies' and misses' girdles, foundation garments, garter belts, etc. Serial No. 618,170, Mar. 25. Class 39.
Libbey-Owens-Ford Glass Company, Toledo, Ohio. Rear view mirrors. Serial No. 598,423, Mar. 25. Class 19.
Libbey-Owens-Ford Glass Company, Toledo, Ohio. Magazine. Serial No. 617,087, Mar. 25. Class 38.
Lilyette Brassiere Co. Inc., New York, N. Y. Brassières. Serial No. 617,964, Mar. 25. Class 39.
Llewellyn, Inc., New York, N. Y. Ladies' handbags. Serial No. 618,118, Mar. 25. Class 3.
Longmont Brick & Tile Company, Longmont, Colo. Kiln burned clay brick. Serial No. 602,618, Mar. 25. Class 12.
Lord Silver, Inc., Brooklyn, N. Y. Candy dishes, compotes, mayonnaise dishes, console dishes, etc. Serial No. 599,379, Mar. 25. Class 28.
Loveless, W. D., & Sons, Watsonville, Calif. Fresh vegetables. Serial No. 618,857, Mar. 25. Class 46.
Lub-X Refining Corporation, Napoleon, Ohio. Lubricating oil. Serial No. 609,874, Mar. 25. Class 15.
Lundbeck Corporation, The, Dover, Del. Sulphonamide preparation. Serial No. 589,029, Mar. 25. Class 18.
Luyties Pharmacal Company, St. Louis, Mo. Dentifrice. Serial No. 614,559, Mar. 25. Class 51.
MacMillan, H. R., Sales Ltd., Vancouver, British Columbia, Canada. Slab or flush doors. Serial No. 612,335, Mar. 25. Class 12.
Marchand, Charles, Company, The, New York, N. Y. Medicinal hydrogen peroxide. Serial No. 606,715, Mar. 25. Class 18.
Marshall, Walt, La Crosse, Wis. Non-alcoholic maltless soft drinks. Serial No. 608,995, Mar. 25. Class 45.
Mary Ellen's, Inc., Berkeley, Calif. Jams, jellies, honey, table syrup, etc. Serial No. 614,560, Mar. 25. Class 46.

Massengill, S. E., Company, The, Bristol, Tenn. Medicinal preparation. Serial No. 587,882, Mar. 25. Class 18.
Matson Navigation Company, San Francisco, Calif. Musical entertainment service. Serial No. 616,721, Mar. 25. Class 107.
Mautz Paint & Varnish Company, Madison, Wis. Putty. Serial Nos. 616,294–6, Mar. 25. Class 12.
McCarter, Gertrude E., doing business as Trudy Manufacturing Company, Osceola, Ind. Spread. Serial No. 599,517, Mar. 25. Class 46.
McCloskey, Elizabeth M., Forest Hills, N. Y. Smooth-finished, colored concrete tile. Serial No. 611,705, Mar. 25. Class 12.
McCord, Robert S., North Little Rock, Ark. Newspaper column. Serial No. 616,722, Mar. 25. Class 38.
McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal and pharmaceutical preparation. Serial No. 597,155, Mar. 25. Class 18.
Merzon, Ruth, Fifth Avenue, Inc., New York, N. Y. Brassières, bathing suits and slips. Serial No. 615,843, Mar. 25. Class 39.
Meyers, Louis, & Son, Inc., New York, N. Y. Fabric gloves. Serial No. 617,806, Mar. 25. Class 39.
Mid-West Associates: *See*—
Goodenow-Morley Company.
Millard Brothers Limited, London, England. Air-guns. Serial No. 602,274, Mar. 25. Class 9.
Miron Mills, Inc., Clinton, Mass. Wool fabrics in the piece. Serial Nos. 620,679–80, Mar. 25. Class 42.
Mitteldorfer Straus, Inc., New York, N. Y. Pottery. Serial No. 603,539, Mar. 25. Class 30.
Monsanto Chemical Company, St. Louis, Mo. Anti-freeze solutions. Serial No. 617,305, Mar. 25. Class 6.
Motor Chemical Corporation, assignor to Leo Corporation, Chicago, Ill. Metal organic and inorganic salts and compositions. Serial No. 613,182, Mar. 25. Class 6.
Motor Chemical Corporation, assignor to Leo Corporation, Chicago, Ill. Metal organic and inorganic salts and compositions. Serial No. 613,184, Mar. 25. Class 6.
Mt. Hood Soap Company, Portland, Oreg. Powdered soap. Serial No. 611,652, Mar. 25. Class 52.
Mueller Furniture Co., Grand Rapids, Mich. Household groups of furniture. Serial No. 617,157, Mar. 25. Class 32.
Multiple Breaker Company, The, Malden, Mass. Canned drinking water. Serial No. 616,567, Mar. 25. Class 45.
Napper Company, Incorporated, Winnetka, Ill. Baby's terry cloth play garment set. Serial No. 597,157, Mar. 25. Class 39.
National Silver Company, New York, N. Y. Sterling silver flatware and hollowware. Serial No. 615,132, Mar. 25. Class 28.
New Hermes, Inc., New York, N. Y. Engraving machines and parts therefor. Serial No. 588,831, Mar. 25. Class 23.
Newport Industries, Inc., Pensacola, Fla. Disproportionated rosin. Serial No. 602,280, Mar. 25. Class 1.
Northern Rubber Products, Inc., Minneapolis, Minn. Tile. Serial No. 565,355, Mar. 25. Class 12.
Northwest Poultry Tonics, Inc., Minneapolis, Minn. Conditioner and tonic for poultry and animals and drinking water antiseptic. Serial No. 595,084, Mar. 25. Class 18.
Pacific Hotel Publications, Inc., Los Angeles, Calif. Publication. Serial No. 612,928, Mar. 25. Class 38.
Packers Tar Soap, Inc., Mystic, Conn. Soap. Serial No. 588,104, Mar. 25. Class 52.
Pedigreed Seed Co., New York, N. Y. Grass seed. Serial No. 607,352, Mar. 25. Class 1.
Penick, S. B., & Company, New York, N. Y. Estrogenic materials. Serial No. 612,345, Mar. 25. Class 18.
Pennzoil Company, The, Oil City, Pa. Sundry mailing pieces. Serial No. 581,350, Mar. 25. Class 38.
Pennzoil Company, The, Oil City, Pa. High molecular weight hydrocarbon. Serial No. 615,790, Mar. 25. Class 15.
Perma Plaque Corporation, Los Angeles and Hollywood, Calif. Photographs, pictures, and other pictorial or printed matter, etc. Serial No. 589,985, Mar. 25. Class 38.
Per Venge, doing business under the fictitious name and style of Venge & Company, Los Angeles, Calif. Wine specialty. Serial No. 615,955, Mar. 25. Class 47.
Pharmaceutical Specialties, New York, N. Y. Pharmaceutical preparation. Serial No. 598,036, Mar. 25. Class 18.
Pharma-Craft Corporation, The, New York, N. Y. Medicated cream. Serial No. 608,379, Mar. 25. Class 18.
Phelps, Norman J., assignee: *See*—
Dana Perfumes, Inc.
Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. Serial No. 611,967, Mar. 25. Class 18.
Pittsburgh Chemical Laboratory, Pittsburgh, Pa. Powder compound for cleaning and polishing tile, etc. Serial No. 506,279, Mar. 25. Class 4.
Plastics Engineering Company, Sheboygan, Wis. Phenolic molding compounds. Serial No. 604,609, Mar. 25. Class 6.
Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Knitting yarns. Serial No. 618,098, Mar. 25. Class 43.
Pollak, Henry, Inc., New York, N. Y. Bodies for women's and girls' hats. Serial No. 608,949, Mar. 25. Class 39.
Powell Instrument Company, Port Chester, N. Y. Woodwind musical instrument. Serial No. 585,457, Mar. 25. Class 36.
Procter & Gamble Company, The, Cincinnati, Ohio. Mineral oil product. Serial No. 619,359, Mar. 25. Class 6.
Protex Products Company, Inc., New York, N. Y. Bags for carrying clothing by hand. Serial No. 612,624, Mar. 25. Class 3.
Pyramid Rubber Company, The, Ravenna, Ohio. Nursers and components thereof. Serial No. 570,318, Mar. 25. Class 44.
Quality Chemists, Inc., St. Louis, Mo. Shampoos. Serial No. 611,530, Mar. 25. Class 52.
Reliance Manufacturing Company, Chicago, Ill. Boys' pajamas, shirts, pants, etc. Serial No. 617,589, Mar. 25. Class 39.
Remington Arms Company, Inc., Bridgeport, Conn. Fastening devices. Serial No. 612,354, Mar. 25. Class 13.
Reuge et Cie., Ste-Croix, Switzerland. Music boxes and musical movements therefor. Serial No. 603,308, Mar. 25. Class 36.
Ridd Laboratories, Incorporated, Edmonds, Wash. Borated iodine powder. Serial No. 573,895, Mar. 25. Class 18.
Root Brothers, Inc., Chicago, Il. Pliers, carpenter pincers, draw shaves, etc. Serial No. 616,570, Mar. 25. Class 23.
Rosenstein, Max, doing business as American Ossacryl Company, New York, N. Y. Prostheses. Serial No. 615,135, Mar. 25. Class 44.
Rothbart, Sam: *See*—
Juliette Frocks, Inc.
Rust-A-Way: *See*—
Rustaway Corporation.
Rustaway Corporation, New York, N. Y., assignee of Rust-A-Way. Metal polish. Serial No. 593,086, Mar. 25. Class 4.
Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Olive oil. Serial No. 619,146, Mar. 25. Class 46.
St. Thomas Inc., Gloversville, N. Y. Pocketbooks and billfolds. Serial No. 613,145, Mar. 25. Class 3.
Salescorporation of Bohemian Sheet Glass Factories Ltd., Prague, Czechoslovakia. Sheet glass. Serial No. 558,739, Mar. 25. Class 33.
Salmons, Chapman H., Missouri Branch, W. Va. Liniment. Serial No. 609,066, Mar. 25. Class 18.
Salvajor Co., The, Kansas City, Mo. Unitary apparatus and electrically-operated garbage grinding and disposing machine. Serial No. 609,380, Mar. 25. Class 23.
Salvajor Company, The, Kansas City, Mo. Electric motor driven commercial garbage grinding and disposal machine. Serial No. 576,229, Mar. 25. Class 21.
Sandoz Chemical Works, Inc., New York, N. Y. Analgesic preparation. Serial No. 616,644, Mar. 25. Class 18.
Sandoz Chemical Works, Inc., New York, N. Y. Sedative and hypnotic. Serial No. 616,645, Mar. 25. Class 18.
Schering Corporation, Bloomfield, N. J. Antihistamine preparation. Serial No. 610,468, Mar. 25. Class 18.
Schloss Bros. & Co., Inc., Baltimore, Md. Men's and boys' suits, topcoats, overcoats. Serial No. 578,289, Mar. 25. Class 39.
Sellers Mfg. Co., Saxapahaw, N. C. Yarn. Serial No. 608,129, Mar. 25. Class 43.
Shepard, Charles, Rochester, N. Y. Magazine. Serial No. 618,602, Mar. 25. Class 38.
Silhouette: *See*—
Duncan, Thomas P., Jr.
Simer, Jerome, Company, Minneapolis, Minn. Power-driven compressor units. Serial No. 612,567, Mar. 25. Class 23.
Simonis Company, The, Chicago, Ill. Washing, polishing, cleaning, and dusting cloths. Serial No. 604,272, Mar. 25. Class 29.
Smith, C. D., Drug Company, St. Joseph, Mo. Medicines and pharmaceutical preparations. Serial No. 612,710, Mar. 25. Class 18.
Snap-Trac Corporation, The, Bedford, Ohio. Anti-skid traction lugs and chains, bars and the like. Serial No. 586,322, Mar. 25. Class 13.
Soreghen, George L., doing business as Diamond Whip Company, Chicago, Ill. Lariats. Serial No. 603,899, Mar. 25. Class 3.
Southern Gas Corporation, Atlanta, Ga. Liquefied petroleum gas. Serial No. 617,357, Mar. 25. Class 6.
Spiegel, Inc., Chicago, Ill. Women's, misses' and children's clothing and accessories. Serial No. 617,098, Mar. 25. Class 39.
Squibb, E. R., & Sons, New York, N. Y. Antianemic preparation. Serial No. 610,718, Mar. 25. Class 18.
Stanley Drug Products, Inc., Portland, Oreg. Preparation used as a relief for painful menstruation. Serial No. 616,455, Mar. 25. Class 18.
Star Brush Manufacturing Co., Inc., Boston, Mass. Brushes. Serial No. 577,234, Mar. 25. Class 29.
Steele, Lewis M., doing business under the name and style of Indian Creek Farms, Indianapolis, Ind. Seeds. Serial No. 612,835, Mar. 25. Class 1.
Sterling Machinery Corporation, Kansas City, Mo. Power hoists and winches and power lawn mowers. Serial No. 571,753, Mar. 25. Class 23.
Stewart, Samuel F., Miami, Fla. Ladies' hand bags. Serial No. 613,198, Mar. 25. Class 3.

Stone Manufacturing Co., Inc., Greenville, S. C. Ladies' slips and underwear, infants' slips and underwear, etc. Serial No. 596,881, Mar. 25. Class 39.
Suds-All Company, Inc., Evanston, Ill. Wetting agent. Serial No. 598,509, Mar. 25. Class 6.
Supreme Council, Mystic Order Veiled Prophets of the Enchanted Realm, Chicago, Ill. Banners, pennants and flags. Serial No. 615,912, Mar. 25. Class 50.
Tailored Woman, Inc., The, New York, N. Y. Women's and misses' wearing apparel. Serial No. 604,885, Mar. 25. Class 39.
Towle Manufacturing Company, Newburyport, Mass. Sterling silver flatware. Serial No. 604,284, Mar. 25. Class 28.
Trane Company, The, La Crosse, Wis. Refrigeration machines and parts thereof. Serial No. 611,745, Mar. 25. Class 31.
Trenton Milling Company, Trenton, Ill. Wheat flour. Serial No. 557,973, Mar. 25. Class 46.
Trudy Manufacturing Company: *See*—
McCarter, Gertrude E.
Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.
United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 610,503, Mar. 25. Class 42.
U. S. Handbag Corporation, New York, N. Y. Ladies' handbags, wallets, travelling cases and beach bags. Serial No. 618,184, Mar. 25. Class 3.
Upjohn Company, The, Kalamazoo, Mich. Antibiotic preparation. Serial No. 607,302, Mar. 25. Class 18.
Urantia Foundation, Chicago, Ill. Religious educational services. Serial No. 613,856, Mar. 25. Class 107.
Venge & Company: *See*—
Per Venge.
Virginia Smelting Company, West Norfolk, Va. Composition of zinc hydrosulphite and an organic acid. Serial No. 617,271, Mar. 25. Class 6.
Water Treaters, Inc., St. Paul, Minn., assignor to Automatic Pump & Softener Corporation, Rockford, Ill. Water softeners. Serial No. 595,432, Mar. 25. Class 31.
West Bend Aluminum Co., West Bend, Wis. Metal cooking utensils. Serial No. 612,639, Mar. 25. Class 13.
West Disinfecting Company, Long Island City, N. Y. Antiseptic hand cleanser. Serial No. 610,769, Mar. 25. Class 52.
Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Mechanical vacuum pumps, aircraft engines, gear reduction driving units, etc. Serial No. 606,102, Mar. 25. Class 23.
Wheaton, T. C., Co., Millville, N. J. Glassware. Serial No. 531,169, Mar. 25. Class 33.
Wiener, Gerhard, New York, N. Y. Protective clothing. Serial No. 609,708, Mar. 25. Class 39.
Willis, W. P., & Co., Inc., New York, N. Y. Worsted suitings. Serial No. 620,762, Mar. 25. Class 42.
Wollensak Optical Company, Rochester, N. Y. Photographic lenses. Serial No. 618,221, Mar. 25. Class 26.
Wyeth Incorporated, Philadelphia, Pa. Medicinal ophthalmic lotions. Serial No. 606,186, Mar. 25. Class 18.
Yarnall, C. Ralph, Wyncote, Pa. Vanilla concentrate. Serial No. 617,899, Mar. 25. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Abilene Flour Mills Company, The, Abilene, Kans. Wheat flour. 556,508–10, Mar. 25; Serial Nos. 562,091–3, published Dec. 18, 1951. Class 46.
Air Reduction Company, Incorporated: *See*—
Dryice Corporation of America.
Aktiebolaget Bofors, Bofors, Sweden. Plates of tungsten carbide and cutlery steel. 556,772, Mar. 25; Serial No. 617,594, published Jan. 8, 1952. Class 14.
Albritton, Oscar B., doing business as The Indian Chemical Company, Wichita Falls, Tex. Solvents. 556,532–3, Mar. 25; Serial Nos. 573,182–3, published Aug. 14, 1951. Class 52.
Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Alloy steel used in the production of metal working tools and dies. 556,773, Mar. 25; Serial No. 617,832, published Jan. 8, 1952. Class 14.
Amend, Fred W., Co., Chicago, Ill. Candy. 556,605, Mar. 25; Serial No. 596,966, published Jan. 1, 1952. Class 46.
American Box Board Company, Grand Rapids, Mich. Cardboard boxes. 556,479, Mar. 25; Serial No. 507,228, published July 24, 1951. Class 2.
American Hollow Boring Company, Erie, Pa. Drill collars. 556,614, Mar. 25; Serial No. 598,623, published Nov. 27, 1951. Class 23.
American Hollow Boring Company, Erie, Pa. Drill collars. 556,615, Mar. 25; Serial No. 598,624, published Nov. 6, 1951. Class 23.
American Stores Company, Philadelphia, Pa. Floor wax and polishing materials. 556,558, Mar. 25; Serial No. 588,542, published Dec. 25, 1951. Class 4.
American Stores Company, Philadelphia, Pa. Fresh eggs. 556,637, Mar. 25; Serial No. 602,015, published Jan. 8, 1952. Class 46.
American Tobacco Company, The, New York, N. Y. Plug cut tobacco. 556,531, Mar. 25; Serial No. 571,885, published Dec. 18, 1951. Class 17.
Ames Supply Company, Chicago, Ill. Platens. 556,751, Mar. 25; Serial No. 613,963, published Dec. 25, 1951. Class 23.
Angelo Petri Vineyards: *See*—
Petri Wine Company.
Apothecaries Hall Company, Waterbury, Conn. Preparation used for cannibalism in poultry. 294,361, renewed May 24, 1952. O. G. Mar. 25. Class 18.
Appell, D. S., Columbus, Ohio. Cleaning and polishing preparation. 556,562, Mar. 25; Serial No. 589,237, published Dec. 25, 1951. Class 4.
Arch-Aid Shoe Shop, Inc., New York, N. Y. Shoes. 556,679, Mar. 25; Serial No. 607,210, published Jan. 8, 1952. Class 39.
Armour and Company, Chicago, Ill. Butter, fresh eggs and dressed poultry. 556,483, Mar. 25; Serial No. 533,258, published Dec. 11, 1951. Class 46.
Armour and Company, doing business under the trade style Jacob E. Decker & Sons, Chicago, Ill. Meat and meat products. 556,680, Mar. 25; Serial No. 607,211, published Dec. 11, 1951. Class 46.
Armstrong Cork Company, Lancaster, Pa. Grouting material. 556,515, Mar. 25; Serial No. 565,160, published Dec. 18, 1951. Class 12.
Armstrong Cork Company, Lancaster, Pa. Linoleum. 556,748–9, Mar. 25; Serial Nos. 613,798–9, published Dec. 25, 1951. Class 20.
Arrioja y V., Delfino, Puebla, Mexico. Laxative. 556,794, Mar. 25; Serial No. 587,989. Class 18.
Associated Laboratories: *See*—
Chumlea, Leon W.
Atlanta Milling Company, Atlanta, Ga. Wheat flour. 556,523, Mar. 25; Serial No. 569,424, published Jan. 1, 1952. Class 46.
Atomised Food Products Limited, Hertfordshire, England. Coffee concentrate. 556,498, Mar. 25; Serial No. 554,290, published Nov. 1, 1949. Class 46.
Authentic Fishing Guide: *See*—
Bargren, Clayton L.
Automatic Pencil Sharpener Co.: *See*—
Spengler-Loomis Manufacturing Company.
"Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Automatic sprinkler systems. 556,690, Mar. 25; Serial No. 608,847, published Jan. 1, 1952. Class 13.
"Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Automatic sprinkler systems. 556,691, Mar. 25; Serial No. 608,855, published Jan. 1, 1952. Class 13.
Avon Shoe Co., Inc., Brooklyn, N. Y. Men's, women's and children's shoes. 556,671, Mar. 25; Serial No. 605,981, published Dec. 4, 1951. Class 39.
Baillod, Camile, Basel, Switzerland. Non-alcoholic, maltless syrups. 290,173, renewed Dec. 22, 1951. O. G. Mar. 25. Class 45.
Bambacigno, M., doing business as Modesto Olive Oil Company, Modesto, Calif. Olive oil and fresh grapes. 556,754, Mar. 25; Serial No. 614,128, published Dec. 11, 1951. Class 46.
Bargren, Clayton L., doing business under the name and style of Authentic Fishing Guide, Atlanta, Ga. Magazine. 556,812, Mar. 25; Serial No. 615,475. Class 38.
Basic Foods, Inc., assignee: *See*—
Michaelis, Curt.
Bates Shoe Company, Webster, Mass. Shoes. 556,606, Mar. 25; Serial No. 597,119, published Jan. 8, 1952. Class 39.
Bath Maid, Inc., Andrews, Ind. Bathroom cabinets, side storage cabinets, vanity tables, etc. 556,608, Mar. 25; Serial No. 597,491, published Jan. 1, 1952. Class 32.
Beaird, J. B., Company, Inc., The, Shreveport, La. Liquefied petroleum gas storage tanks. 556,501, Mar. 25; Serial No. 555,589, published Jan. 1, 1952. Class 2.
Beaumart Co., New York, N. Y. Ladies' and misses' dresses. 556,815, Mar. 25; Serial No. 618,145. Class 39.
Bedford, A. J., Shoe, Incorporated, Lititz, Pa. Infants', children's, misses' and little gent's cowboy boots and felt slippers. 556,665, Mar. 25; Serial No. 604,715, published Jan. 8, 1952. Class 39.
Bellerose Products Co., Manhasset, N. Y. Canvas reversible safety shoes. 556,643, Mar. 25; Serial No. 602,594, published Jan. 8, 1952. Class 39.
Bergen Preserving Company A/S, assignor to Norwegian Preserving Co. A/S, Bergen, Norway. Canned sardines. 556,502, Mar. 25; Serial No. 555,591, published Dec. 4, 1951. Class 46.
Bird & Son, Inc., East Walpole, Mass. Felt base ornamental surfaced wall covering, floor covering and counter topping. 556,714, Mar. 25; Serial No. 610,818, published Jan. 1, 1952. Class 20.

Bjarne Eckhoff's Konservesfabrik A/S, Odense, Denmark. Canned ham. 556,657, Mar. 25; Serial No. 604,353, published Jan. 1, 1952. Class 46.
Blair, J. C., Company, Huntingdon, Pa., to Western Tablet & Stationery Corporation, Dayton, Ohio. Envelops, writing-tablets, pencil-tablets, etc. 86,030, re-renewed Apr. 9, 1952. O. G. Mar. 25. Class 37.
Blair, J. C., Company, Huntingdon, Pa., to Western Tablet & Stationery Corporation, Dayton, Ohio. Paper, drawing-paper, pencil-paper, etc. 86,509, re-renewed May 14, 1952. O. G. Mar. 25. Class 37.
Blake, William J. Sandy, Oreg. Bulldozers and scarifiers. 556,610, Mar. 25; Serial No. 597,998, published Jan. 1, 1952. Class 23.
Blatchford Calf Meal Company, Waukegan, Ill. Animal food. 556,497, Mar. 25; Serial No. 553,666, published Dec. 4, 1951. Class 46.
Bock, H. Anton, Co. Inc., New York, N. Y. Cigars. 556,490, Mar. 25; Serial No. 544,033, published Jan. 1, 1952. Class 17.
Booth, F. E., Company, Inc., San Francisco, Calif. Poultry feed. 287,062, renewed Sept. 15, 1951. O. G. Mar. 25. Class 46.
Boss Manufacturing Company, The, Kewanee, Ill. Gloves and mittens. 556,581, Mar. 25; Serial No. 591,909, published Jan. 1, 1952. Class 39.
Bragado, Domingo R., doing business as Jewel Filipino Spinning Top Co., Brooklyn, N. Y. Spinning tops. 556,756, Mar. 25; Serial No. 614,399, published Jan. 8, 1952. Class 22.
British Cod Liver Oils (Hull &, Grimsby) Limited, Hull, England. Fish oils. 556,538, Mar. 25; Serial No. 575,818, published Jan. 1, 1952. Class 46.
Brooks Shoe Manufacturing Company, Philadelphia, Pa. Men's athletic shoes. 556,489, Mar. 25; Serial No. 539,643, published Jan. 23, 1951. Class 39.
Brown, Himan, New York, N. Y. Entertainment service. 556,780, Mar. 25; Serial No. 596,976, published Jan. 1, 1952. Class 107.
Brown, Samuel R., doing business as Romance of California, Los Angeles, Calif. Girdles and panty girdles. 556,478, Mar. 25; Serial No. 497,843, published Jan. 1, 1952. Class 39.
Bryant, Carlos M., doing business under the firm name and style of Sweetall Manufacturing Company, Williamstown, N. Y. Mixing ingredient to be mixed in livestock feed. 556,696, Mar. 25; Serial No. 609,164, published Dec. 25, 1951. Class 46.
Buckeye Soda Company, The, Painesville, Ohio. Fire extinguishing liquid. 556,738, Mar. 25; Serial No. 614,647, published Jan. 1, 1952. Class 6.
Burlington Mills Corporation: *See*—
May Hosiery Mills, Inc.
Cahill Manufacturing Co., Chicago, Ill. Brake shoes with bonded brake linings for automotive vehicles. 556,797, Mar. 25; Serial No. 593,053. Class 19.
Calavo Growers of California, Los Angeles, Calif. Fresh avocados. 556,752, Mar. 25; Serial No. 614,038, published Dec. 18, 1951. Class 46.
Caldwell Seed Company, by R. C. Fonder, doing business as Permalawn Products Co., Evanston, Ill. Fertilizers. 340,201, Nov. 3, 1936. Republished Mar. 25. Class 10.
Caldwell Seed Company, by R. C. Fonder, doing business as Permalawn Products Co., Evanston, Ill. Lawn seed. 341,084, Dec. 1, 1936. Republished Mar. 25. Class 1.
California Citrus Processors: *See*—
Wurgaft, R. B.
Calo Dog Food Company, Inc., Oakland, Calif. Canned dog food. 556,721, Mar. 25; Serial No. 611,590, published Jan. 1, 1952. Class 46.
Capitol Amusements, Inc., Erwin, Tenn. Entertainment service. 556,781, Mar. 25; Serial No. 611,601, published Jan. 1, 1952. Class 107.
Carey-McFall Company, Philadelphia, Pa. Venetian blinds. 556,640, Mar. 25; Serial No. 602,492, published Dec. 25, 1951. Class 32.
Cellini Shoes, Inc., Philadelphia, Pa. Women's shoes. 556,810, Mar. 25; Serial No. 614,487. Class 39.
Central O-B Products Co. Inc.: *See*—
Ulrich, Charles, & Co.
Central Soya Company, Inc., Fort Wayne, Ind. Concentrate for livestock and poultry feed. 556,541, Mar. 25; Serial No. 580,048, published Jan. 1, 1952. Class 46.
Chalex Corporation, Chicago, Ill. Counting apparatus. 556,526, Mar. 25; Serial No. 570,767, published Dec. 4, 1951. Class 26.
Chapman, Wayne L., Dallas, Tex. Women's dresses. 556,750, Mar. 25; Serial No. 613,867, published Jan. 1, 1952. Class 39.
Chen Yu, Inc., assignor to Richard Hudnut, New York, N. Y. Lipstick and nail lacquer. 556,561, Mar. 25; Serial No. 589,147, published Dec. 18, 1951. Class 51.
Chicago Pharmacal Company, Chicago, Ill. Liquid preparation for the treatment of earache. 346,824, June 8, 1937. Republished Mar. 25. Class 18.
Chipman's, Chas., Sons Co., Inc.: *See*—
Claflin, H. B., Company, The.
Chumlea, Leon W., doing business as Chumlea's Laboratories and as Associated Laboratories, Lebanon, Ind. Distilled milk. 556,590, Mar. 25; Serial No. 594,102, published Dec. 11, 1951. Class 46.
Chumlea's Laboratories: *See*—
Chumlea, Leon W.
Chunk-E-Nut Products Co.: *See*—
Chunk-E-Nut Products Company, Inc.
Chunk-E-Nut Products Company, Inc., doing business as Chunk-E-Nut Products Co., Philadelphia, Pa. Raw popping corn. 556,543, Mar. 25; Serial No. 580,770, published Dec. 25, 1951. Class 46.
Ciba Limited: *See*—
Society of Chemical Industry in Basle.
Cinderella Cosmetics: *See*—
Sinykin, Jack L.
Claflin, H. B., Company, The, to Chas. Chipman's Sons Co., Inc., New York, N. Y. Hosiery. 83,897, re-renewed Oct. 24, 1951. O. G. Mar. 25. Class 39.
Clayton & Lambert Manufacturing Company, Louisville, Ky. Metal corn cribs and grain bins. 556,762, Mar. 25; Serial No. 615,157, published Jan. 8, 1952. Class 2.
Clofine, Herbert K., Philadelphia, Pa. Dried cheese whey. 556,591, Mar. 25; Serial No. 594,197, published Jan. 8, 1952. Class 46.
Cluett, Peabody & Co., Inc.: *See*—
Tim & Co.
Coating Materials Laboratories, Inc., Belleville, N. J. Cement preparation. 556,592, Mar. 25; Serial No. 594,198, published Dec. 25, 1951. Class 5.
Coating Products, New York, N. Y. Acetate in roll form cut into narrow rolls and sheets. 556,795, Mar. 25; Serial No. 590,142. Class 1.
Colgate-Palmolive-Peet Company: *See*—
Kirkman & Son, Inc.
Colorado Fuel and Iron Company, The, to The Colorado Fuel and Iron Corporation, Denver, Colo. Wire fence. 291,282, renewed Feb. 9, 1952. O. G. Mar. 25. Class 13.
Colorado Fuel and Iron Corporation, The: *See*—
Colorado Fuel and Iron Company, The.
Columbian Rope Company, Auburn, N. Y. Manila and sisal rope. 84,727, re-renewed Jan. 2, 1952. O. G. Mar. 25. Class 7.
Columbus Dental Manufacturing Co., The, Columbus, Ohio. Laminated metallic backings for artificial teeth. 556,638, Mar. 25; Serial No. 602,371, published Dec. 25, 1951. Class 44.
Comfort Spring Corporation, Baltimore, Md. Spring cushion units. 556,597–8, Mar. 25; Serial Nos. 596,077–8, published Dec. 18, 1951. Class 32.
Commercial Solvents Corporation, New York, N. Y. Analgesic composition. 556,600, Mar. 25; Serial No. 596,265, published Nov. 6, 1951. Class 18.
Commercial Solvents Corporation, New York, N. Y. Ophthalmic solution. 556,702, Mar. 25; Serial No. 609,909, published Nov. 13, 1951. Class 18.
Commercial Solvents Corporation, New York, N. Y. Blood plasma substitute. 556,703, Mar. 25; Serial No. 609,910, published Nov. 13, 1951. Class 18.
Commercial Solvents Corporation, New York, N. Y. Blood plasma substitute. 556,704, Mar. 25; Serial No. 609,912, published Nov. 13, 1951. Class 18.
Conde Nast Publications, Inc., The: *See*—
McBride, Nast & Co.
Corega Chemical Company: *See*—
Wilson, Odell.
Corega Chemical Company, Cleveland, Ohio, by Corega Chemical Company, Jersey City, N. J. Dental powder. 196,843, Mar. 31, 1925. Republished Mar. 25. Class 51.
Corega Chemical Company, Cleveland, Ohio, by Corega Chemical Company, Jersey City, N. J. Dental powder. 200,438, June 30, 1925. Republished Mar. 25. Class 51.
Corral, Wodiska y Ca., Tampa, Fla. Cigars. 294,142, renewed May 17, 1952. O. G. Mar. 25. Class 17.
Covington, James O., doing business as Covington Sales Company, Nashville, Tenn. Prophylactics. 556,633, Mar. 25; Serial No. 601,714, published Dec. 25, 1951. Class 44.
Covington Sales Company: *See*—
Covington, James O.
Craddock-Terry Shoe Corporation, Lynchburg, Va. Women's shoes. 556,723, Mar. 25; Serial No. 611,770, published Jan. 8, 1952. Class 39.
Crystal, David, Inc., New York, N. Y. Ladies' and misses' dresses, coats, suits, etc. 556,557, Mar. 25; Serial No. 587,182, published Jan. 8, 1952. Class 39.
Daggett & Ramsdell, Inc., Newark, N. J. Soap and soap powder. 556,675, Mar. 25; Serial No. 606,598, published Jan. 1, 1952. Class 52.
Dairy Service Corporation, Washington, D. C. Frozen orange juice. 556,617, Mar. 25; Serial No. 599,557, published Dec. 4, 1951. Class 46.
Dakota Laboratories: *See*—
Lockhart, Jack H.
Daystrom, Incorporated, Elizabeth, N. J. Plastic-coated tubular furniture. 556,734, Mar. 25; Serial No. 612,850, published Jan. 1, 1952. Class 32.
Daystrom, Incorporated, Elizabeth, N. J. Chromed steel tubular, plastic, and wooden furniture. 556,739, Mar. 25; Serial No. 613,401, published Jan. 1, 1952. Class 32.
d-Con Company, a division of United Enterprises, Inc., assignor, by mesne assignments, to D-Con, Inc., Chicago, Ill. Rodent poison. 556,650, Mar. 25; Serial No. 603,577, published July 3, 1951. Class 6.
D-Con, Inc., assignee: *See*—
d-Con Company, a division of United Enterprises, Inc.
Decker, Jacob E., & Sons: *See*—
Armour and Company.

Dellwood Dairy Co., Inc., Yonkers, N. Y. Fluid milk, creamed cottage cheese, fresh eggs, etc. 556,504, Mar. 25; Serial No. 557,509, published Dec. 18, 1951. Class 46.

De Martini Macaroni Co., Inc., The, Brooklyn, N. Y. Macaroni, spaghetti, and egg noodles. 556,699, Mar. 25; Serial No. 609,539, published Jan. 1, 1952. Class 46.

Dick, A. B., Company, Niles, Ill. Cements. 556,639, Mar. 25; Serial No. 602,376, published Dec. 25, 1951. Class 5.

Dick, A. B., Company, Niles, Ill. Lithographic plates. 556,687, Mar. 25; Serial No. 608,411, published Nov. 27, 1951. Class 50.

Dickson Company, The, Chicago, Ill. Recording apparatus. 556,585, Mar. 25; Serial No. 592,618, published Dec. 4, 1951. Class 26.

Di Pietro, Pietro, New York, N. Y. Food sauces. 556,753, Mar. 25; Serial No. 614,043, published Jan. 8, 1952. Class 46.

Do/More Chair Company: *See*—
Ferris, William S.

Domore Chair Company, Inc.: *See*—
Ferris, William S.

Donbert Co., Inc., New York, N. Y. Combination refrigerated drinking straw and stirrer. 556,622, Mar. 25; Serial No. 600,470, published Nov. 27, 1951. Class 50.

Douglas Fir Plywood Association, Tacoma, Wash. Plywood. 556,782, Mar. 25; Serial No. 605,784, published Dec. 25, 1951. Class 12.

Douglas Furniture Corporation, Chicago, Ill. Chairs. 556,707, Mar. 25; Serial No. 610,121, published Jan. 1, 1952. Class 32.

Dryice Corporation of America, to Air Reduction Company, Incorporated, New York, N. Y. Apparatus for liquefying gas or solids. 292,486, renewed Mar. 15, 1952. O. G. Mar. 25. Class 23.

Duet Hosiery Corp., assignor to Warren Knitting Mills, Inc., New York, N. Y. Hosiery. 556,801, Mar. 25; Serial No. 599,159. Class 39.

Dunham, Carrigan & Hayden Co., San Francisco, Calif. Extension hack saw frames, lathing hatchets, claw hatchets, etc. 444,675, Mar. 25; Serial No. 525,071, published Dec. 11, 1951. Class 23.

Duplex Printing Press Co., Battle Creek, Mich., to The Goss Printing Press Company, Chicago, Ill. Rotary printing presses, rotary folders, and stereotype equipment, etc. 286,707, renewed Sept. 1, 1951. O. G. Mar. 25. Class 23.

Earnshaw Knitting Company, Chicago, Ill., to The Vanta Company, Inc., Waltham, Mass. Undershirts. 85,801, re-renewed Mar. 19, 1952. O. G. Mar. 25. Class 39.

Earnshaw Knitting Company, Newton, to The Vanta Company, Inc., Waltham, Mass. Castile soap. 292,060, renewed Mar. 1, 1952. O. G. Mar. 25. Class 52.

Earnshaw Knitting Company, Newton, to The Vanta Company, Inc., Waltham, Mass. Sterilized baby powder. 292,488, renewed Mar. 15, 1952. O. G. Mar. 25. Class 51.

Earnshaw Knitting Company, Newton, to The Vanta Company, Inc., Waltham, Mass. Sterilized olive oil. 292,580, renewed Mar. 15, 1952. O. G. Mar. 25. Class 46.

Eiseman, Alfred S., to National Mallinson Fabrics Corporation, New York, N. Y. Piece goods, dish cloths, hair nets, etc. 297,884, Oct. 4, 1932. New certificate. O. G. Mar. 25. Class 42.

Ellay Stores, Inc., New York, N. Y. Men's and women's suits and coats. 556,719, Mar. 25; Serial No. 611,507, published Jan. 8, 1952. Class 39.

Ender, Louis, New York, N. Y. Fruit preserves, bakers' supplies, canned fruits, etc. 556,517, Mar. 25; Serial No. 565,694, published Jan. 1, 1952. Class 46.

Endicott Johnson Corporation, Endicott, N. Y. Shoe counters. 556,737, Mar. 25; Serial No. 613,165, published Jan. 8, 1952. Class 39.

Enpro Engineered Products: *See*—
Evelyn, Steven F.

Eshelman, John W., & Sons, Lancaster, Pa. Poultry foods, pigeon feed, livestock foods, etc. 556,505, Mar. 25; Serial No. 553,024, published Jan. 8, 1952. Class 46.

Euclid Candy Company of California, Inc., San Francisco, Calif. Candy. 556,582, Mar. 25; Serial No. 592,020, published Jan. 8, 1952. Class 46.

Evelyn, Steven F., doing business as Enpro Engineered Products, Springfield, Mass. Counseling service. 556,776, Mar. 25; Serial No. 563,455, published Jan. 1, 1952. Class 100.

F & F Laboratories, Inc., Chicago, Ill. Topping to be applied to ice cream. 556,731, Mar. 25; Serial No. 612,685, published Dec. 25, 1951. Class 46.

Fairfield Glove Co., Fairfield, Iowa. Slipper sox. 556,654, Mar. 25; Serial No. 603,917, published Jan. 8, 1952. Class 39.

Fay, W., Company: *See*—
Woo, George.

Federal Equipment Company, Washington, D. C. Office desks and tables, and structural parts thereof. 556,631, Mar. 25; Serial No. 601,494, published Jan. 1, 1952. Class 32.

Feedwaters, Inc., New York, N. Y. Preparations for treating and conditioning water. 291,463, renewed Feb. 9, 1952. O. G. Mar. 25. Class 52.

Feedwaters, Inc., New York, N. Y. Preparations used for the prevention of rust and corrosion of metals. 292,258, renewed Mar. 8, 1952. O. G. Mar. 25. Class 52.

Feedwaters, Inc., New York, N. Y. Chemicals used for the prevention of rust and corrosion of metals. 293,827, renewed May 10, 1952. O. G. Mar. 25. Class 52.

Ferris, William S., doing business as Do/More Chair Company, to Domore Chair Company, Inc., Elkhart, Ind. Seats and back rests. 292,511, renewed Mar. 15, 1952. O. G. Mar. 25. Class 32.

Filterzone Auto-Vision Co., Brooklyn, N. Y. Plastic filters or sunshade filters. 556,647, Mar. 25; Serial No. 603,186, published Dec. 4, 1951. Class 26.

Fischer Industries, Inc., Cincinnati, Ohio. Soap concentrate. 556,783, Mar. 25; Serial No. 502,605. Class 52.

Florsheim Shoe Company, The, Chicago, Ill. Men's and women's shoes. 556,619, Mar. 25; Serial No. 600,041, published Jan. 8, 1952. Class 39.

Fo-Jo Studio, De Soto, Mo. Processing photographic film. 556,778, Mar. 25; Serial No. 594,708, published Jan. 1, 1952. Class 106.

Fonder, R. C.: *See*—
Caldwell Seed Company.

Forrest, Inc., Oyster Bay, N. Y. Children's aspirin. 556,559, Mar. 25; Serial No. 588,638, published Nov. 13, 1951. Class 18.

Foster-McClellan Co., to Foster-McClellan Co., Buffalo, N. Y. Specific for the cure of kidney and bladder complaints. 38,031, re-renewed Apr. 1, 1952. O. G. Mar. 25. Class 18.

Founders Furniture Company, Pleasant Garden, N. C. Cocktail tables, coffee tables, end tables, etc. 556,636, Mar. 25; Serial No. 601,898, published Dec. 25, 1951. Class 32.

Foundry Supplies Manufacturing Co., Chicago, Ill. Automatically-operated sifters and strainers. 556,652, Mar. 25; Serial No. 603,672, published Dec. 25, 1951. Class 23.

Foundry Supplies Manufacturnig Co., Chicago, Ill. Automatically operated vibrators. 556,653, Mar. 25; Serial No. 603,673, published Dec. 25, 1951. Class 23.

Frank, Jesse H., Philadelphia, Pa. Boys' wash suits. 556,488, Mar. 25; Serial No. 539,038, published Feb. 22, 1949. Class 39.

Friedberg, Bert, doing business under the firm name and style of Bert Friedberg & Co., San Francisco, Calif. Binoculars, field glases, and opera or theater glasess. 556,644, Mar. 25; Serial No. 602,829, published Nov. 27, 1951. Class 26.

Friedberg, Bert, doing business under the firm name and style of Bert Friedberg & Co., San Francisco, Calif. Binoculars, field glasses, and opera or theater glasses. 556,645, Mar. 25; Serial No. 602,830, published Dec. 4, 1951. Class 26.

Friedberg, Bert, doing business under the firm name and style of Bert Friedberg & Co., San Francisco, Calif. Binoculars, field glasses, and opera or theater glasses. 556,646, Mar. 25; Serial No. 602,831, published Nov. 27, 1951. Class 26.

Friedberg, Bert, & Co.: *See*—
Friedberg, Bert.

Fruitvale Canning Company: *See*—
Pacific Coast Canners, Inc.

Futura Corporation: *See*—
Nu-Pro Corporation.

Garfinckel, Julius, & Co., Incorporated, Washington, D. C. Ladies', misses', and girls' suits, dresses, skirts, etc. 556,648, Mar. 25; Serial No. 603,189, published Jan. 8, 1952. Class 39.

Garner & Co., New York, N. Y. Receptacle. 556,673, Mar. 25; Serial No. 606,215, published Jan. 1, 1952. Class 2.

Geigy Company, Inc., New York, N. Y. Dyestuffs, lakes, and chemical products. 290,749, renewed Jan. 12, 1952. O. G. Mar. 25. Class 6.

Geigy Company, Inc., New York, N. Y. Mothproofing and moth repellent agents. 444,586, Oct. 23, 1951. Republished Mar. 25. Class 6.

Geneva Modern Kitchens, Inc., Geneva, Ill. Wall cabinets, floor cabinets, doors, etc. 556,569, Mar. 25; Serial No. 590,149, published Dec. 18, 1951. Class 32.

Gilbert Shoe Co., The, Thiensville, Wis. Shoes. 321,351, Jan. 29, 1935. Republished Mar. 25. Class 39.

Gladding, McBean & Co., Los Angeles, Calif. Ceramic wall tile. 556,578, Mar. 25; Serial No. 591,568, published Dec. 25, 1951. Class 12.

Globe-Wernicke Co., The, Norwood, Cincinnati, Ohio. Record card filing tray. 556,682, Mar. 25; Serial No. 607,669, published Sept. 4, 1951. Class 32.

Golden Age Corporation, New York, N. Y., to Grocery Store Products Co., West Chester, Pa. Noodles. 291,192, renewed Feb. 2, 1952. O. G. Mar. 25. Class 46.

Goldman, Mary T., St. Paul, Minn., to Monroe Chemical Company, Quincy, Ill. Hair-restorers and other applications for the hair and cosmetics. 38,166, renewed Apr. 22, 1952. O. G. Mar. 25. Class 51.

Goldner, Orville C., Morris, N. Y. Film strips, motion picture films and still picture films. 556,676, Mar. 25; Serial No. 606,771, published Dec. 4, 1951. Class 26.

Goshen Manufacturing Company, Goshen, Ind. Outdoor furniture. 556,514, Mar. 25; Serial No. 564,939, published Jan. 1, 1952. Class 32.

Goss Printing Press Company, The: *See*—
Duplex Printing Press Co.

Grand Rapids Chair Company, Grand Rapids, Mich. Lounge chairs, lamp tables, cocktail tables, etc. 556,692, Mar. 25; Serial No. 608,989, published Jan. 1, 1952. Class 32.

Great Atlantic and Pacific Tea Company, The, New York, N. Y. Liquid air purifier and deodorant. 556,757, Mar. 25; Serial No. 614,622, published Jan. 1, 1952. Class 6.

Greene, Harry M., doing business as Greene Optical Mfg. Co., Chicago, Ill. Optical frames. 556,612, Mar. 25; Serial No. 598,416, published Dec. 4, 1951. Class 26.

Greene Optical Mfg. Co.: *See*—
Greene, Harry M.

Grocery Store Products Co.: *See*—
Golden Age Corporation.

Groov-Pin Corporation, Union City, N. J. Tapered grooved metal pins. 556,486, Mar. 25; Serial No. 536,689, published Dec. 25, 1951. Class 23.

H & M Cigar Factory, Inc., Jacksonville, Fla. Cigars. 556,572, Mar. 25; Serial No. 591,033, published Dec. 11, 1951. Class 17.

Hachmeister-Inc., Pittsburgh, Pa. Yeast food. 556,613, Mar. 25; Serial No. 598,469, published Jan. 1, 1952. Class 46.

Hadley, Charles R., Company, Los Angeles, Calif. Posting trays, rolling filing cabinets, rolling pedestals. 556,586, Mar. 25; Serial No. 593,347, published Jan. 1, 1952. Class 32.

Haines, Leigh C., & Sons, Fort Fairfield, Maine. Potatoes. 556,626, Mar. 25; Serial No. 600,887, published Jan. 1, 1952. Class 46.

Hall, Martin L., Company, Boston, Mass. Coffee. 556,487, Mar. 25; Serial No. 537,177, published Dec. 4, 1951. Class 46.

Halsey Drug Company Inc., Brooklyn, N. Y. Mineral oils, cod liver oil, mouth wash antiseptic, etc. 364,375, Jan. 31, 1939. Republished Mar. 25. Classes 1, 6, 18, 51, and 52.

Hammel, Riglander & Co. Inc.: *See*—
Hammel, Riglander-Pennant Corporation.

Hammel, Riglander-Pennant Corporation, now by change of name, Hammel, Riglander & Co. Inc., to Vve. Th. Dumont Fils et Cie., Montignez, Switzerland. Tweezers, pliers and nippers. 312,598, May 1, 1934. New certificate. O. G. Mar. 25. Class 23.

Hampden Brewing Company, Chicopee, to Hampden Brewing Company, Willimansett, Mass. Malt beverages. 287,287, renewed Sept. 15, 1951. O. G. Mar. 25. Class 48.

Hansen's, Chr., Laboratory, Inc., Little Falls, N. Y. Food flavoring extracts. 293,848, renewed May 10, 1952. O. G. Mar. 25. Class 46.

Harden Farms, Inc., Salinas, Calif. Fresh vegetables. 556,743–4, Mar. 25; Serial Nos. 613,637–8, published Dec. 18, 1951. Class 46.

Harris, A., and Company, Dallas, Tex. Women's sling capes. 556,580, Mar. 25; Serial No. 591,850, published Jan. 8, 1952. Class 39.

Hart's Bakery, Inc., Sikeston, Mo. Bread and rolls. 556,609, Mar. 25; Serial No. 597,752, published Jan. 8, 1952. Class 46.

Hasco Valve and Machine Co., Milwaukee, Wis. Plumbing and steam-fitting valves and metal pipe fittings. 352,356 Nov. 30, 1937. Republished Mar. 25. Class 13.

Hasco Valve and Machine Co., Milwaukee, Wis. Piston type force pumps. 424,504, Oct. 8, 1946. Republished Mar. 25. Class 23.

Haywood Publishing Company, Chicago, Ill. Magazine. 556,803, Mar. 25; Serial No. 605,953. Class 38.

Heinn Company, The, Milwaukee, Wis. Loose-leaf-book binders. 293,248, renewed Apr. 19, 1952. O. G. Mar. 25. Class 37.

Heli-Coil Corporation, Long Island City, N. Y. Screw connections and parts of screw connections. 556,693, Mar. 25; Serial No. 608,990, published Dec. 25, 1951. Class 13.

Heller Company, The, White Plains, N. Y. Thermally insulated base metal ice vaults and buckets. 444,673, Mar. 25; Serial No. 489,118, published Jan. 1, 1952. Class 2.

Herb-Craft Health Products, Inc., Valparaiso, Ind. Cough syrup, cold tablets, laxatives, etc. 556,519, Mar. 25; Serial No. 566,141, published Dec. 18, 1951. Class 18.

Hi-Life Packing Company: *See*—
Ready Foods Company, Inc.

Hirsch Bros. & Co. Inc., Louisville, Ky. Salad dressing, tomato ketchup, chili sauce, etc. 556,632, Mar. 25; Serial No. 601,674, published Jan. 1, 1952. Class 46.

Hoffmann, Harri, Co., Milwaukee, Wis. Shoe polish and dressing. 556,727, Mar. 25; Serial No. 612,325, published Jan. 1, 1952. Class 4.

Holeproof Hosiery Co., Milwaukee, Wis. Women's hosiery. 556,716, Mar. 25; Serial No. 611,276, published Jan. 1, 1952. Class 39.

Holly Manufacturing Company, Pasadena, Calif. Space wall heaters. 556,796, Mar. 25; Serial No. 590,157. Class 34.

Hosey, Harry A., doing business as The Old Hickory Sales Company, Old Hickory, Tenn. Laundry fastener or clip. 556,618, Mar. 25; Serial No. 599,766, published Jan. 8, 1952. Class 24.

Howes, S., Company, Inc.: *See*—
Howes, S., Company, The.

Howes, S., Company, The, to S. Howes Company, Inc., Silver Creek, N. Y. Grain-cleaners, grain-separators, grain-scourers, etc. 86,594. Re-renewed May 21, 1952. O. G. Mar. 25. Class 23.

Hudnut, Richard, assignee: *See*—
Chen Yu, Inc.

Hughes and Hatcher, Inc., Detroit, Mich. Men's coats, vests and pants. 556,811, Mar. 25; Serial No. 615,180. Class 39.

Hume, G. W., Company, San Francisco, Calif. Canned fruits, canned vegetables. 206,167, Nov. 24, 1925. Republished Mar. 25. Class 46.

Hume, G. W., Company, San Francisco, Calif. Canned fruits; canned vegetables. 234,118, Oct. 18, 1927. Republished Mar. 25. Class 46.

Hunter, H. B., Company, Inc., Norfolk, Va. Cooked and emulsified product of cocoa, sugar and flavorings for flavoring ice cream. 556,537, Mar. 25; Serial No. 574,269, published Jan 8, 1952. Class 46.

Hynson, Westcott & Dunning, Incorporated, Baltimore, Md. Pharmaceutical preparation, metal salt impregnated gauze, and a burn treatment unit package. 556,728, Mar. 25; Serial No. 612,546, published Nov. 27, 1951. Class 18.

Ideal Publishing Corporation, New York, N. Y. Periodical. 556,805, Mar. 25; Serial No. 607,858. Class 38.

Imperial Pearl Syndicate, Inc., Chicago, Ill. Simulated pearls and simulated pearl jewelry. 556,603, Mar. 25; Serial No. 596,667, published Nov. 27, 1951. Class 28.

Independent Lock Company, Fitchburg, Mass. Locksmiths' supplies. 556,511, Mar. 25; Serial No. 564,128, published Jan. 1, 1952. Class 25.

Indian Chemical Company, The: *See*—
Albritton, Oscar B.

Interchemical Corporation, New York, N. Y. Cloth, coated, impregnated, processed, or treated with oil or oils, etc., and adapted for use as a decorative and utility material for wall coverings, etc. 556,518, Mar. 25; Serial No. 565,991, published Jan. 1, 1952. Class 20.

International Harvester Company, Chicago, Ill. Refrigeration packaging products — namely, sealing tape. 556,634, Mar. 25; Serial No. 601,793, published Jan. 1, 1952. Class 5.

International Harvester Company, Chicago, Ill. Refrigeration packaging products — namely, sealing tape. 556,635, Mar. 25; Serial No. 601,796, published Jan. 1, 1952. Class 5.

International Shoe Company, St. Louis, Mo. Shoes. 556,611, Mar. 25; Serial No. 598,190, published Jan. 8, 1952. Class 39.

Ionite Battery Corporation, Price, Utah. Electrolytes or solutions for batteries. 556,565, Mar. 25; Serial No. 589,724, published Jan. 8, 1952. Class 6.

Iowa Packing Company, Division of Swift & Company: *See*—
Swift & Company.

Jacobs, Phil, Co., Inc., Kansas City, Mo. Women's suits, coats, and dresses. 556,708, Mar. 25; Serial No. 610,275, published Jan. 8, 1952. Class 39.

Jelke, John F., Company, Chicago, Ill., to Lever Brothers Company, New York, N. Y. Oleomargarin. 86,411, re-renewed May 7, 1952. O. G. Mar. 25. Class 46.

Jewel Filipino Spinning Top Co.: *See*—
Bragado, Domingo R.

Johnson Corporation, The, Three Rivers, Mich. Syphon unit. 556,521, Mar. 25; Serial No. 566,842, published Jan. 1, 1952. Class 23.

Johnson Educator Food Company, Cambridge, Mass., to Megowen-Educator Food Company, Lowell, Mass. Cookies. 291,175, renewed Feb. 2, 1952. O. G. Mar. 25. Class 46.

Josephart, Herman, Miami Beach, Fla. Cooked chicken. 556,567, Mar. 25; Serial No. 589,789, published Jan. 1, 1952. Class 46.

K & G Manufacturing Co., Culver City, Calif. Metal furniture. 556,620, Mar. 25; Serial No. 600,287, published Dec. 25, 1951. Class 32.

Kellogg Company, Battle Creek, Mich. Cereal breakfast foods. 556,485, Mar. 25; Serial No. 536,400, published Dec. 25, 1951. Class 46.

Kermath Manufacturing Company, Detroit, Mich. Internal-combustion engines. 556,596, Mar. 25; Serial No. 596,031, published Dec. 4, 1951. Class 23.

Keystone Slipper Co., Inc., Philadelphia, Pa. Women's shoes. 556,516, Mar. 25; Serial No. 565,631, published Jan. 8, 1952. Class 39.

Kiddie Kasuals, Inc., assignee: *See*—
Wise, Willard J.

Kilray Blind Company, Atlanta, Ga. Window cornices. 556,628, Mar. 25; Serial No. 601,107, published Dec. 25, 1951. Class 32.

Kirkman & Son, Inc., Brooklyn, N. Y., to Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 292,101, renewed Mar. 1, 1952. O. G. Mar. 25. Class 52.

Kleenzit Corporation, The, Brownsville, Tenn. Liquid chemical cleanser. 556,577, Mar. 25; Serial No. 591,488, published Jan. 1, 1952. Class 52.

Kleiner Cigar Manufacturing Company, Detroit, Mich., to Webster Tobacco Company, Inc., New York, N. Y. Cigars. 290,431–32, renewed Jan. 5, 1952. O. G. Mar. 25. Class 17.

Kosto Co., The, Chicago, Ill. Food preparation. 556,525, Mar. 25; Serial No. 570,562, published Jan. 8, 1952. Class 46.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Watch bands, cuff links and tie bars. 556,574, Mar. 25; Serial No. 591,090, published Nov. 27, 1951. Class 28.

Kreisler, Jacques, Manufacturing Corporation, North Bergen, N. J. Wrist watch bands. 556,630, Mar. 25; Serial No. 601,264, published Nov. 27, 1951. Class 28.

Kresge, S. S., Company, Detroit, Mich. Candy. 556,623, Mar. 25; Serial No. 600,778, published Jan. 8, 1952. Class 46.

Kronish, B., & Bro, Inc., to B. Kronish, New York, N. Y. Cosmetics. 294,215, renewed May 24, 1952. O. G. Mar. 25. Class 51.

Kronish, Bernhard: *See*—
Kronish, B., & Bro. Inc.

Kurs-Kasch Co., The, to Kurs-Kasch, Inc., Dayton, Ohio. Articles and parts formed in whole or in part from molded plastic insulating compounds, etc. 291,490, renewed Feb. 9, 1952. O. G. Mar. 25. Class 21.

Kurs-Kasch, Inc.: *See*—
Kurs-Kasch Co., The.

Lambert Pharmacal Company, Wilmington, Del., to Lambert Pharmacal Company, St. Louis, Mo. Medicated ointment. 291,938, renewed Feb. 23, 1952. O. G. Mar. 25. Class 18.

Lang, C. C., & Son, Inc., Baltimore, Md. Pickles. 556,573, Mar. 25; Serial No. 591,038, published Dec. 4, 1951. Class 46.

Lanvin Parfums, Inc., New York, N. Y. Perfumes and toilet water. 556,672, Mar. 25; Serial No. 606,020, published Dec. 18, 1951. Class 51.

Lasser, Aaron, executor: *See*—
Michaelis, Curt.

Laurentide Dairy Products Limited, Quebec, Quebec, Canada. Powdered milk. 556,575, Mar. 25; Serial No. 591,092, published Jan. 1, 1952. Class 46.

Lavino, E. J., and Company, Philadelphia, Pa. Conjoint acting combination of partly prepared units for kiln- and electric-furnace lining. 556,524, Mar. 25; Serial No. 569,627, published Dec. 18, 1951. Class 12.

Les Frigoriferes du Littoral, Oostende, Belgium. Frozen (quick-deep frozen) fish and canned fish. 556,579, Mar. 25; Serial No. 591,742, published Dec. 25, 1951. Class 46.

Leslie Fay Fashions, Inc., New York, N. Y. Women's and misses' coats and suits. 556,735, Mar. 25; Serial No. 612,901, published Jan. 8, 1952. Class 39.

Lever Brothers Company: *See*—
Jelke, John F., Company.
Pepsodent Co., The.

Liberty Rice Mill, Inc., Kaplan, La. Packages of rice. 556,564, Mar. 25; Serial No. 589,456, published Dec. 4, 1951. Class 46.

Lindt & Sprungli, Inc., New York, N. Y. Chocolate candy. 556,669, Mar. 25; Serial No. 605,751, published Dec. 11, 1951. Class 46.

Little Crow Milling Company, Inc., Warsaw, Ind. Mix of corn meal, wheat flour and other ingredients for corn bread, corn sticks, muffins, etc. 556,587, Mar. 25; Serial No. 593,805, published Jan. 8, 1952. Class 46.

Lockhart, Jack H., doing business as Dakota Laboratories, Redfield, S. Dak. Photographic prints, pictures and picture cards. 556,806, Mar. 25; Serial No. 608,363, Class 38.

Loft Candy Corporation: *See*—
Loft, Incorporated.

Loft, Incorporated, New York, N. Y., by Loft Candy Corporation. Candy. 114,368, Dec. 12, 1916. Republished Mar. 25. Class 46.

Loudonville Milling Company, The, Loudonville, Ohio, assignor to Standard Milling Company, Chicago, Ill. Wheat flour. 556,482, Mar. 25; Serial No. 532,732, published Dec. 4, 1951. Class 46.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections. 556,534, Mar. 25; Serial No. 573,429, published Jan. 8, 1952. Class 46.

Lubin-Weeker Co., Inc., New York, N. Y. Men's and boys' pajamas. 556,745, Mar. 25; Serial No. 613,716, published Jan. 1, 1952. Class 39.

Maar, Zvonko, Zurich, Switzerland. Time pieces for vehicles. 556,809, Mar. 25; Serial No. 612,023. Class 27.

Maiden Form Brassiere Co., Inc., New York, N. Y. Brassières, garter belts and girdles. 556,813–14, Mar. 25; Serial Nos. 617,965–6. Class 39.

Manco Watch Strap Co., Inc., New York, N. Y. Watch bands. 556,700, Mar. 25; Serial No. 609,688, published Nov. 27, 1951. Class 28.

Mann Company of Washington, The, Washington, D. C. Deep fried cheese flavored corn meal product. 556,583, Mar. 25; Serial No. 592,274, published Jan. 8, 1952. Class 46.

Mapleton Cheese Factory: *See*—
Tupper, L. J.

Marjack Co., Inc., The: *See*—
Marjack Company, The.

Marjack Company, The, also known as The Marjack Co., Inc., Washington, D. C. Popped corn. 556,599, Mar. 25; Serial No. 596,107, published Jan. 1, 1952. Class 46.

Markham, E. L., Jr., assignee: *See*—
Ruggles, Donald H.

Markwell Manufacturing Company, Inc., New York, N. Y. Stapling machines. 556,563, Mar. 25; Serial No. 589,265, published Dec. 18, 1951. Class 23.

Markwell Mfg. Co., Inc., New York, N. Y. Staples. 227,988, May 17, 1927. Republished Mar. 25. Class 13.

Marshall Field & Company, Chicago, Ill. Assorted hard candies. 556,528, Mar. 25; Serial No. 571,281, published Oct. 9, 1951. Class 46.

Martin, Horace G., New York, N. Y. Electric latrines. 444,674, Mar. 25; Serial No. 502,907, published Jan. 1, 1952. Class 13.

Marx, Nathaniel, Chicago, Ill. Artists' paint brushes. 556,800, Mar. 25; Serial No. 597,408. Class 29.

Masury-Young Company, Charlestown, Mass. Liquid preparation for waxing floors, wood work, metal work, etc. 289,914, renewed Dec. 15, 1951. O. G. Mar. 25. Class 4.

May Hosiery Mills, Inc., Burlington, to Burlington Mills Corporation, Greensboro, N. C. Hosiery. 293,140, renewed Apr. 12, 1952. O. G. Mar. 25. Class 39.

McBride, Nast & Co., to The Conde Nast Publications, Inc., New York, N. Y. Monthly magazine. 86,666, renewed May 21, 1952. O. G. Mar. 25. Class 38.

McGillvray, W. E., Stockton, Calif. Potatoes. 556,656, Mar. 25; Serial No. 604,209, published July 17, 1951. Class 46.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Publication. 556,807, Mar. 25; Serial No. 608,368. Class 38.

McRay's Company, Des Moines, Iowa. Hair shampoo. 556,790, Mar. 25; Serial No. 585,045. Class 52.

Meese, Inc., Madison, Ind. Cork insulated and canvas covered shipping and storage cases. 556,607, Mar. 25; Serial No. 597,450, published Jan. 8, 1952. Class 2.

Megowen-Educator Food Company: *See*—
Johnson Educator Food Company.

Megs Macaroni Company, Harrisburg, Pa. Alimentary pastes. 556,670, Mar. 25; Serial No. 605,865, published Dec. 25, 1951. Class 46.

Melodigrand Corp., New York, N. Y. Pianos. 556,554, Mar. 25; Serial No. 586,009, published Jan. 1, 1952. Class 36.

Merkel, Inc., Jamaica, N. Y. Meats. 556,566, Mar. 25; Serial No. 589,735, published Jan. 8, 1952. Class 46.

Micallef, A., & Co., Inc., Providence, R. I. Jewelry. 556,629, Mar. 25; Serial No. 601,113, published Nov. 27, 1951. Class 28.

Michaelis, Beatrice Y., executrix: *See*—
Michaelis, Curt.

Michaelis, Curt, deceased, Union City, N. J.; B. Y. Michaelis and A. Lasser, executors, assignors to Basic Foods, Inc. Icing. 556,658, Mar. 25; Serial No. 604,377, published Dec. 4, 1951. Class 46.

Midwest Footwear, Inc., Sullivan, Mo. Shoes, slippers and moccasins. 556,709, Mar. 25; Serial No. 610,288, published Jan. 8, 1952. Class 39.

Minneapolis Allied Grocers, Inc., Minneapolis, Minn. Canned, bottled and packaged products. 556,544, Mar. 25; Serial No. 581,074, published June 13, 1950. Class 46.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Pressure-sensitive adhesive tape. 556,555–6, Mar. 25; Serial No. 586,869–70, published Dec. 25, 1951. Class 5.

Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind. Light-weight rubber shoes. 556,720, Mar. 25; Serial No. 611,527, published Jan. 8, 1952. Class 39.

Modern Methods, Incorporated, Atlanta, Ga. Paint and woodwork cleaner, a floor cleaner, cleaner and deodorizer for toilet bowls, etc. 556,584, Mar. 25; Serial No. 592,574, published Jan. 1, 1952. Class 52.

Modesto Olive Oil Company: *See*—
Hambacigno, M.

Moench, R. G., & Co., Inc., New York, N. Y. Vanilla concentrates, emulsifiers, and stablizers, and powdered mixtures. 556,755, Mar. 25; Serial No. 614,361, published Dec. 18, 1951. Class 46.

Mojonnier Bros. Co., Chicago, Ill. Evaporators used for concentrating solutions under vacuum. 556,786, Mar. 25; Serial No. 571,036. Class 34.

Monroe Chemical Company: *See*—
Goldman, Mary T.

Monsanto Chemical Company, St. Louis, Mo. Flavors and chemical adjuvants. 556,500, Mar. 25; Serial No. 554,910, published Dec. 25, 1951. Class 46.

Mrizek Bakers, Inc., Kansas City, Mo. Bread, pies, doughnuts, etc. 556,761, Mar. 25; Serial No. 614,953, published Dec. 18, 1951. Class 46.

Murray, Arthur, Enterprises, Inc., New York, N. Y. Men's and women's hosiery. 556,667, Mar. 25; Serial No. 604,986, published Jan. 1, 1952. Class 39.

National Acme Company, The, Cleveland, Ohio. Instruments for the combined recording of time and production. 290,236, renewed Dec. 22, 1951. O. G. Mar. 25. Class 26.

National Blank Book Company, Holyoke, Mass. Blank sheets for bookkeeping records, paper sheet packs, etc. 556,733, Mar. 25; Serial No. 612,817, published Jan. 8, 1952. Class 37.

National Drying Machinery Co., The: *See*—
Parkes, Ralph C.

National Mallinson Fabrics Corporation: *See*—
Eiseman, Alfred S.

National Silver Company, New York, N. Y. Ceramic dinnerware. 556,616, Mar. 25; Serial No. 599,524, published Nov. 27, 1951. Class 30.

National Silver Company, New York, N. Y. 556,736, Mar. 25. Certain articles of holloware, Serial No. 613,142, published Nov. 13, 1951, Class 13; electric percolators and electric snack servers, Serial No. 613,143, published Dec. 4, 1951, Class 21. (Consolidated Certificate, Classes 13 and 21.)

National Store Fronts Co., Inc., Boston and Roxbury, Mass. Mouldings used for window panes for store front constructions, store entrances and doors for buildings, etc. 556,549, Mar. 25; Serial No. 582,851, published Dec. 18, 1951. Class 12.

Neptune Meter Company, to Neptune Meter Company, New York, N. Y. Meters. 281,675, renewed Mar. 24, 1951. O. G. Mar. 25. Class 26.

New Jersey Zinc Company, The, New York, N. Y. Die casting alloy. 552,346, Dec. 18, 1951. Corrected. O. G. Mar. 25. Class 14.

New York Knitting Mills, Inc., New York, N. Y. Knitted sweaters, jackets, and sports shirts. 556,740, Mar. 25; Serial No. 613,472, published Jan. 1, 1952. Class 39.

Nocona Leather Goods Company, Nocona, Tex. Baseball gloves. 556,775, Mar. 25; Serial No. 618,896, published Jan. 1, 1952. Class 22.

Noma Electric Corporation, New York, N. Y. Floor toys and pull toys. 556,662, Mar. 25; Serial No. 604,657, published Jan. 8, 1952. Class 22.

Noma Electric Corporation, New York, N. Y. Pop-up blocks, mechanical skiing figure toy, interlocking type blocks, etc. 556,663, Mar. 25; Serial No. 604,658, published Jan. 8, 1952. Class 22.

Norris Inc., Atlanta, Ga. Candy. 556,674, Mar. 25; Serial No. 606,233, published Dec. 11, 1951. Class 46.

Northern Metal Products Company, Chicago, Ill. Anti skid plates. 556,697, Mar. 25; Serial No. 609,411, published Nov. 27, 1951. Class 50.

Northhill Company, Inc., Los Angeles, Calif. Marine anchors. 556,774, Mar. 25; Serial No. 618,364, published Jan. 8, 1952. Class 14.

Norton Coal Corporation, Nortonville, Ky. Coal and washed coal. 551,596, Dec. 4, 1951. Corrected. O. G. Mar. 25. Class 1.

Norwegian Preserving Co. A/S, assignee: *See*—
Bergen Preserving Company A/S.

Nu-Pro Corporation, to Futura Corporation, Chicago, Ill. Beverage stirrers. 539,342, Mar. 13, 1951. New certificate. O. G. Mar. 25. Class 23.

Ohio Mattress Company, The, Cleveland, Ohio. Mattress side walls. 556,713, Mar. 25; Serial No. 610,629, published Jan. 1, 1952. Class 32.

Old Hickory Sales Company, The: *See*—
Hosey, Harry A.

Ollendorff Watch Co., Inc., New York, N. Y. Watches and clocks. 556,698, Mar. 25; Serial No. 609,415, published Nov. 13, 1951. Class 27.

Omega Louis Brandt & Frere, S. A., Biel, Switzerland. Watches, watch parts and watch movements. 556,602, Mar. 25; Serial No. 596,436, published Nov. 27, 1951. Class 27.

Pacific Coast Canners, Inc., by Fruitvale Canning Company, Oakland, Calif. Canned fruits. 236,685, Dec. 20, 1927. Republished Mar. 25. Class 46.

Pam Company, The, Kansas City, Mo. Pies. 556,627, Mar. 25; Serial No. 600,907, published Jan. 1, 1952. Class 46.

Parker Brothers, Inc., Salem, Mass. Table and parts thereof especially constructed for a game. 294,408, renewed May 24, 1952. O. G. Mar. 25. Class 22.

Parkes, Ralph C., doing business as The National Drying Machinery Co., Philadelphia, Pa. Drying, dyeing, bleaching and carbonizing machines and parts thereof, conveyors, etc. 556,551, Mar. 25; Serial No. 583,885, published Nov. 20, 1951. Class 23.

Pastene & Co., Inc., New York, N. Y. Canned salad and cooking oil. 556,499, Mar. 25; Serial No. 554,403, published Dec. 4, 1951. Class 46.

Pattreiouex, J. A. (Overseas) Limited, London and Westminister, London, England. Cigarettes. 556,688, Mar. 25; Serial No. 608,472, published Dec. 18, 1951. Class 17.

Penick, S. B., & Company, New York, N. Y. Flavoring products. 556,568, Mar. 25; Serial No. 590,102, published Jan. 1, 1952. Class 46.

Pepsodent Co., The, Chicago, Ill., to Lever Brothers Company, New York, N. Y. Antiseptics. 291,419, renewed Feb. 9, 1952. O. G. Mar. 25. Class 18.

Pepsodent Co., The, Chicago, Ill., to Lever Brothers Company, New York, N. Y. Dentifrices, antiseptics, and preparations for the treatment of constipation. 293,898, renewed May 10, 1952. O. G. Mar. 25. Class 51.

Perfecting Service Company, Chicago, Ill., and Charlotte, N. C. Rotary unions to convey liquid or gas into or out of revolving cylinders, rolls or drums. 556,788, Mar. 25; Serial No. 579,054. Class 13.

Permalawn Products Co.: *See*—
Caldwell Seed Company.

Perry Novelty Company, Providence, R. I. Ladies' costume jewelry. 556,548, Mar. 25; Serial No. 582,387, published Nov. 27, 1951. Class 28.

Petri Wine Company, also doing business as Angelo Petri Vineyards, San Francisco, Calif. Wines and champagnes. 556,683, Mar. 25; Serial No. 607,827, Nov. 13, 1951. Class 47.

Pettibone Mulliken Corporation, Chicago, Ill. Portable machines. 556,520, Mar. 25; Serial No. 566,765, published Oct. 23, 1951. Class 23.

Pharma-Craft Corporation, The, New York, N. Y. Deodorant spray and non-perspirant. 556,546, Mar. 25; Serial No. 582,054, published June 27, 1950. Class 51.

Phoenix Fuel Company, Louisville, Ky. Bituminous coal. 556,802, Mar. 25; Serial No. 600,785. Class 1.

Pickfair Associates, Fullerton, Calif. Fresh oranges. 556,766, Mar. 25; Serial No. 615,286, published Dec. 25, 1951. Class 46.

Pierce Watch Company, Inc., New York, N. Y. Watches, chronographs, stop watches, etc. 556,732, Mar. 25; Serial No. 612,758, published Jan. 8, 1952. Class 27.

Pittsburgh Tool Steel Wire Company, Monaca, Pa. Drill rods and cold drawn steel. 292,835, renewed Mar. 29, 1952. O. G. Mar. 25. Class 14.

Plastic-View Transparent Shades: *See*—
Voges, Sonny C.

Portable Industries, Inc., Cleveland, Ohio. Power actuated tools. 556,588, Mar. 25; Serial No. 593,936, published June 26, 1951. Class 23.

Pressure Products Corporation, Chicago, Ill. Liquefied petroleum gas. 556,593, Mar. 25; Serial No. 594,490, published Feb. 6, 1951. Class 6.

Priddy, Hugh A., Wichita Falls, Tex. Frozen watermelon confection. 556,715, Mar. 25; Serial No. 611,195, published Jan. 1, 1952. Class 46.

Procter & Gamble Company, The, Cincinnati, Ohio. Blend of soybean and cottonseed oils. 556,710, Mar. 25; Serial No. 610,354, published Jan. 1, 1952. Class 46.

Puppet House, The: *See*—
Sellers, Sarah E.

Puritan Furniture Mfrs., Melrose, Mass. Wood beds, dressers, chests of drawers, etc. 556,536, Mar. 25; Serial No. 574,050, published Jan. 1, 1952. Class 32.

Ready Foods Company, Inc., also doing business as Hi-Life Packing Company, by Hi-Life Packing Company, Chicago, Ill. Canned dog food. 389,548, Aug. 12, 1941. Republished Mar. 25. Class 46.

Red Devil Tools, Irvington, N. J. Wood scrapers, wall scrapers, putty knives, etc. 556,540, Mar. 25; Serial No. 579,214, published Nov. 27, 1951. Class 23.

Reilly-Whiteman-Walton Company, Conshohocken, Pa. Supplementary synthetic tanning agent. 556,768, Mar. 25; Serial No. 615,721, published Jan. 8, 1952. Class 6.

Remington Rand Business Service, Inc., Buffalo, to Remington Rand Inc., New York, N. Y. Index cards, index strips and sheets, etc. 289,923, renewed Dec. 15, 1951. O. G. Mar. 25. Class 37.

Remington Rand Inc., Buffalo, to Remington Rand Inc., New York, N. Y. Bound books, loose leaf binders, etc. 288,154, renewed Oct. 20, 1951. O. G. Mar. 25. Class 37.

Remington Rand Inc., Buffalo, to Remington Rand Inc., New York, N. Y. Cabinets, lockers, cupboards, etc. 288,168, renewed Oct. 20, 1951. O. G. Mar. 25. Class 32.

Remington Rand Inc. *See*—
Remington Rand Business Service, Inc.

Research Products Company, Kansas City, Mo. Chemicals. 556,725, Mar. 25; Serial No. 612,088, published Jan. 1, 1952. Class 6.

Research Products Company, Kansas City, Mo. Emulsifier for use in the manufacture of dough products. 556,763, Mar. 25; Serial No. 615,192, published Jan. 1, 1952. Class 46.

Rex Co., Inc., The, by The Rex Corporation, Cambridge, Mass. Plastic composition in the form of thread or rodding used as wound electrical insulation. 419,098, Feb. 5, 1946. Republished Mar. 25. Class 21.

Rex Corporation, The: *See*—
Rex Co., Inc., The.

Rheinische Gummi-und Celluloid-Fabrik, Mannheim, Germany, to Rheinische Gummi Und Celluloidfabrik, Mannheim-Neckarau, Germany. Combs. 278,872, renewed Dec. 20, 1950. O. G. Mar. 25. Class 40.

Rheinische Gummi Und Celluloidfabrik: *See*—
Rheinische Gummi-und Celluloid-Fabrik.

Richie, Robert Yarnall, Production, Inc., New York, N. Y. Motion picture film. 556,625, Mar. 25; Serial No. 600,852, published Dec. 4, 1951. Class 26.

Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y., to Riegel Paper Corporation, New York, N. Y. Tympan paper. 290,444, renewed Jan. 5, 1952. O. G. Mar. 25. Class 37.

Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y., to Riegel Paper Corporation, New York, N. Y. Waxed papers, plain glassine paper, waxed glassine paper, etc. 290,806, renewed Jan. 19, 1952. O. G. Mar. 25. Class 37.

Ritter Company, Inc., Rochester, N. Y. Dental, medical and surgical appliances. 556,681, Mar. 25; Serial No. 607,519, published Dec. 25, 1951. Class 44.

Rock City Tobacco Company (1936) Limited, Quebec, Quebec, Canada. Cigars, cigarettes, smoking tobacco, etc. 556,535, Mar. 25; Serial No. 573,740, published Jan. 1, 1952. Class 17.

Rodana A. G., Grenchen, Switzerland. Watches, clocks, watch movements, etc. 556,649, Mar. 25; Serial No. 603,309, published Nov. 27, 1951. Class 27.

Roiscreen Company, Pella, Iowa. Venetian blinds. 556,545, Mar. 25; Serial No. 581,734, published Jan. 1, 1952. Class 32.

Romance of California: *See*—
Brown, Samuel R.

Royce Shoe Corporation, Boston, Mass. Women's shoes. 556,724, Mar. 25; Serial No. 611,859, published Jan. 8, 1952. Class 39.

Rubens & Marble, to Rubens & Marble, Inc., Chicago, Ill. Knitted undershirts. 85,008, re-renewed Jan. 16, 1952. O. G. Mar. 25. Class 39.

Rubens & Marble, Inc.: *See*—
Rubens & Marble.

Ruggles, Donald H., Tulsa, Okla., assignor to E. L. Markham, Jr., Dallas, Tex. Venetian blinds. 556,506, Mar. 25; Serial No. 561,045, published Dec. 18, 1951. Class 32.

Rum and Maple Tobacco Corporation, New York, N. Y. Pipe tobacco and cigarettes. 556,659, Mar. 25; Serial No. 604,449, published Jan. 1, 1952. Class 17.

Sacks, Samuel, doing business as Uneeda Shine Machine Company, New York, N. Y. Shoe shine machines. 556,678, Mar. 25; Serial No. 607,099, published Oct. 23, 1951. Class 23.

Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Raisins. 556,655, Mar. 25; Serial No. 603,963, published Jan. 1, 1952. Class 46.

Safie Brothers, New Baltimore, Mich. Olives. 556,769, Mar. 25; Serial No. 615,726, published Jan. 8, 1952. Class 46.

St. John & Co., Chicago, Ill. Catch basins, spice bins, pails and buckets, etc. 556,480, Mar. 25; Serial No. 519,701, published Feb. 28, 1950. Class 2.

Santa Cruz Canning Company, assignee: *See*—
Verga, Frank.

Schiffer, Samuel S., New York, N. Y. Racks for books, racks for magazines, etc. 556,711, Mar. 25; Serial No. 610,379, published Jan. 1, 1952. Class 32.

Schoncite, Ina, Los Angeles, Calif. Jewelry. 556,552, Mar. 25; Serial No. 583,891, published Nov. 27, 1951. Class 28.

Schulman Enterprises: *See*—
Schulman, Nate.

Schulman, Nate, doing business as Schulman Enterprises, Chicago, Ill. Writing fluid. 556,785, Mar. 25; Serial No. 567,049. Class 11.

Schultz, Baujan & Co., Beardstown, Ill. Formula feeds for poultry, and cornmeal for human consumption. 556,492, Mar. 25; Serial No. 546,060, published Dec. 25, 1951. Class 46.

Schwartz, Max, Lingerie, Inc., New York, N. Y. Ladies' and misses' and junior misses' nightgowns, slips, and panties. 556,589, Mar. 25; Serial No. 594,070, published Jan. 1, 1952. Class 39.

Scorb Company, The: *See*—
Walter, H. G.

Seabrook Associates, Tyrone, Pa. Shelled peanuts. 556,595, Mar. 25; Serial No. 595,684, published Jan. 1, 1952. Class 46.

Sears, Roebuck and Co., Chicago, Ill. Water supply systems. 556,560, Mar. 25; Serial No. 588,893, published Nov. 13, 1951. Class 23.

Seeman Brothers, Inc., New York, N. Y. Imitation vanilla flavor. 556,484, Mar. 25; Serial No. 533,400, published Dec. 4, 1951. Class 46.

Selectile Company, Inc., West Los Angeles, Calif. Ceramic floor and wall tile. 556,571, Mar. 25; Serial No. 590,785, published Dec. 25, 1951. Class 12.

Sellers, Sarah E., doing business as The Puppet House, Cincinnati, Ohio. Puppets. 556,765, Mar. 25; Serial No. 615,263, published Jan. 8, 1952. Class 22.

Sequatchie Handle Works, Sequatchie, Tenn. Hickory tool handles. 556,512, Mar. 25; Serial No. 564,221, published Oct. 23, 1951. Class 23.

Shell Chemical Corporation, New York, N. Y. Insecticide. 556,764, Mar. 25; Serial No. 615,251, published Jan. 8, 1952. Class 6.

Shelton Manufacturing Co., Inc., Long Island City, N. Y. Corrugated paper boxes. 556,685, Mar. 25; Serial No. 607,904, published Jan. 8, 1952. Class 2.

Sho-Me, Inc., New York, N. Y. Multiple section storage boxes. 556,604, Mar. 25; Serial No. 596,811, published Jan. 8, 1952. Class 2.

Shreve & Adams, Inc., New York, N. Y. Children's, ladies' and misses' anklets and hosiery. 556,729, Mar. 25; Serial No. 612,564, published Jan. 1, 1952. Class 39.

Signal Publishing Corporation, by Signal Publications, Huntington Park, Calif. Newspaper. 288,025, Oct. 20, 1931. Republished Mar. 25. Class 38.

Signal Publications: *See*—
Signal Publishing Corporation.

Sinykin, Jack L., doing business as Cinderella Cosmetics, St. Paul, to J. L. Sinykin, Minneapolis, Minn. Hair tonics, perspiration lotion, toilet water, etc. 294,287, renewed May 24, 1952. O. G. Mar. 25. Class 51.

Skinner Machinery Company, Inc., Dunedin, Fla. Material for degreening citrus fruits and for controlling decay in fresh fruits and vegetables. 556,760, Mar. 25; Serial No. 614,902, published Jan. 1, 1952. Class 6.

Sloane, W. & J., New York, N. Y. Beds, chests, bureaus, etc. 444,628–9, Jan. 1, 1952. Corrected. O. G. Mar. 25. Class 32.

Society of Chemical Industry in Basle, to Ciba Limited, Basel, Switzerland. Chemical products for use as auxiliary agents in the textile industry. 290,076, renewed Dec. 22, 1951. O. G. Mar. 25. Class 52.

Society of Chemical Industry in Basle, to Ciba Limited, Basel, Switzerland. Coal tar colors. 291,408, renewed Feb. 9, 1952. O. G. Mar. 25. Class 6.

Sonneborn, L., Sons, Inc., New York, N. Y. Paints. 86,105, re-renewed Apr. 9, 1952. O. G. Mar. 25. Class 16.

Sonneborn, L., Sons, Inc., New York, N. Y. Disinfectant. 86,248, re-renewed Apr. 23, 1952. O. G. Mar. 25. Class 6.

Spengler-Loomis Manufacturing Company, doing business as Automatic Pencil Sharpener Co., Rockford, Ill. Pencil sharpeners and parts therefor. 556,527, Mar. 25; Serial No. 571,179, published Nov. 27, 1951. Class 23.

Spiegel, Inc., Chicago, Ill. Lounge chairs. 556,746, Mar. 25; Serial No. 613,737, published Dec. 25, 1951. Class 32.

Spurgeon Hosiery Corporation, Philadelphia, Pa. Hosiery. 556,741, Mar. 25; Serial No. 613,613, published Jan. 1, 1952. Class 39.

Standard Milling Company, assignee: *See*—
Loudonville Milling Company, The.

Stearns Manufacturing Company, Inc., Adrian, Mich. Concrete block making machines and parts thereof. 556,661, Mar. 25; Serial No. 604,603, published Dec. 25, 1951. Class 23.

Stephano Brothers, Philadelphia, Pa. Cigarettes. 556,738, Mar. 25; Serial No. 613,246, published Dec. 25, 1951. Class 17.

Stephens-Adamson Mfg. Co., Aurora, Ill. Apparatus for loading and trimming pulverulent, granular or small lump material. 556,481, Mar. 25; Serial No. 523,337, published Dec. 4, 1951. Class 23.

Sterling Pulp & Paper Company, Eau Claire, Wis. Waxed paper. 556,816, Mar. 25; Serial No. 621,602. Class 37.

Sterwin Chemicals Inc., New York, N. Y. Seasoning agent. 556,730, Mar. 25; Serial No. 612,630, published Dec. 25, 1951. Class 46.

Stich Bros. Mfg. Co., Los Angeles, Calif. Shower bath doors, bath tub enclosures and shower bath enclosures. 556,493, Mar. 25; Serial No. 547,578, published Dec. 18, 1951. Class 12.

Stockyards Packing Co. Inc., Chicago, Ill. Beef steaks. 556,686, Mar. 25; Serial No. 608,049, published Jan. 8, 1952. Class 46.

Stoeger Arms Corporation, New York, N. Y. Publication. 556,808, Mar. 25; Serial No. 608,683. Class 38.

Straub, W. F., & Company, Chicago, Ill. Prune juice and shredded coconut. 556,553, Mar. 25; Serial No. 584,088, published Jan. 1, 1952. Class 46.

Strausberg, Jack, Chicago, Ill. Entertainment service. 556,777, Mar. 25; Serial No. 593,023, published Jan. 1, 1952. Class 107.

Strawbridge & Clothier, Philadelphia, Pa. Women's shoes. 556,666, Mar. 25; Serial No. 604,866, published Dec. 11, 1951. Class 39.

Stuhmer, Geo. F., & Company, Brooklyn, N. Y. Bakery products. 556,601, Mar. 25; Serial No. 596,300, published Jan. 8, 1952. Class 46.

Stylon Corporation, Boston, Mass. Metal medicine cabinets. 556,747, Mar. 25; Serial No. 613,743, published Dec. 25, 1951. Class 32.

Suffolk Peanut Company, The, Suffolk, Va. Raw unshelled peanuts. 556,668, Mar. 25; Serial No. 605,380, published Jan. 8, 1952. Class 46.

Sunnydale Ice Cream Co. Inc., Brooklyn, N. Y. Bulk ice cream and ice cream novelties. 556,522, Mar. 25; Serial No. 568,007, published Jan. 8, 1952. Class 46.

Superior Steel Corporation, Carnegie, to Superior Steel Corporation, Pittsburgh, Pa. Metal strip or sheet material. 292,368, renewed Mar. 15, 1952. O. G. Mar. 25. Class 14.

Sweetall Manufacturing Company: *See*—
Bryant, Carlos M.

Swift & Company, Chicago, Ill., doing business as Iowa Packing Company, Division of Swift & Company, Des Moines, Iowa. Bacon. 556,621, Mar. 25; Serial No. 600,311, published Jan. 8, 1952. Class 46.

Tama Trading Company, Inc., Los Angeles, Calif. Edible oils, tomato paste and canned tuna. 556,513, Mar. 25; Serial No. 564,359, published Nov. 20, 1951. Class 46.

Tame Shoe Corporation, New York, N. Y. Shoes. 556,495, Mar. 25; Serial No. 551,829, published Jan. 8, 1952. Class 39.

Tanner, Edward E., Jr., Chicago, Ill. Sack type garment coverings for legs and torsos. 556,784, Mar. 25; Serial No. 534,836. Class 39.

Tel-A-Phony, Inc., Chicago, Ill. Rotative hand manipulable chart. 556,792, Mar. 25; Serial No. 586,891. Class 38.

Television Forecast, Inc., Chicago, Ill. Periodical publication. 556,791, Mar. 25; Serial No. 583,257. Class 38.

Tim & Co., New York and Troy, to Cluett, Peabody & Co., Inc., Troy, N. Y. Textile collars, underdrawers, undershirts, etc. 86,009, re-renewed Apr. 2, 1952. O. G. Mar. 25. Class 39.

Tip Top Ice Cream Company (Wellington) Limited, Waterloo Quay, Wellington, New Zealand. Water ices, and ice cream in bulk and in various frozen shapes and forms. 556,550, Mar. 25; Serial No. 583,058, published Jan. 8, 1952. Class 46.

Tobal Products Inc., Chicago, Ill. Rodenticide. 556,767, Mar. 25; Serial No. 615,614, published Jan. 8, 1952. Class 6.

Trabert & Hoeffer Inc., New York, N. Y. Emeralds and precious stones. 556,570, Mar. 25; Serial No. 590,766, published Nov. 27, 1951. Class 28.

Trans-Meter Corporation, New York, N. Y. Automatic coin-operated dispensing machines and parts therefor. 556,503, Mar. 25; Serial No. 555,851, published Nov. 20, 1951. Class 23.

Traver Corporation, Chicago, Ill. Partitions or fillers. 556,496, Mar. 25; Serial No. 552,898, published Sept. 11, 1951. Class 2.

Trimfoot Company, Farmington, Mo. Shoes. 556,689, Mar. 25; Serial No. 608,839, published Jan. 8, 1952. Class 39.

Trommer, Lawrence R., Washington, D. C. Stringed instrument. 556,641, Mar. 25; Serial No. 602,378, published Jan. 1, 1952. Class 36.

Tupper, L. J., doing business under the name and style of Mapleton Cheese Factory, Oconomowoc, Wis. Cheese. 556,742, Mar. 25; Serial No. 613,617, published Jan. 8, 1952. Class 46.

"21" Brands Distillers Corporation, New York, N. Y. Whiskey. 556,576, Mar. 25; Serial No. 591,446, published Nov. 13. 1951. Class 49.

Tyson Metal Products, Pittsburgh, Pa. Bar and restaurant equipment. 556,494, Mar. 25; Serial No. 547,581, published Jan. 1, 1952. Class 13.

Ulrich, Charles, & Co., to Central O-B Products Co. Inc., Buffalo, N. Y. Metal-polish. 37,449, re-renewed Dec. 10, 1951. O. G. Mar. 25. Class 4.

Uneeda Shine Machine Company: *See*—
Sacks, Samuel.

United States Aviex Company, Niles, Mich. Additive for fuel oils. 556,787, Mar. 25; Serial No. 575,103. Class 15.

United States Rubber Company, New York, N. Y. Vaginal douches. 288,982, Nov. 10, 1931. Republished Mar. 25. Class 44.

Universal Auto Products Corporation, Maywood, Ill. Imitation leather cases. 556,491, Mar. 25; Serial No. 545,601, published Jan. 1, 1952. Class 2.

Upjohn Company, The, Kalamazoo, Mich. Laxative preparations. 85,625, re-renewed Feb. 27, 1952. O. G. Mar. 25. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Emulsion of white mineral oil. 291,440, renewed Feb. 9, 1952. O. G. Mar. 25. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Suppository or an ointment. 291,458, renewed Feb. 9, 1952. O. G. Mar. 25. Class 18.

Utica Cutlery Company, Utica, N. Y. Household knives, pocket knives, hunting knives, etc. 556,594, Mar. 25; Serial No. 595,344, published Nov. 6, 1951. Class 23.

Vaca Foods, Inc., Chicago, Ill. Preserved sea foods and anchovies and crackers. 556,529, Mar. 25; Serial No. 571,304, published Jan. 1, 1952. Class 46.

Vaca Foods, Inc., Chicago, Ill. Preserved sea foods, and anchovies and crackers. 556,530, Mar. 25; Serial No. 571,305, published Jan. 8, 1952. Class 46.

Vacuum Products Corporation, Newark, N. J. Insulated vacuum bottle. 556,717, Mar. 25; Serial No. 611,318, published Jan. 8, 1952. Class 2.

Van Allen, Erwin, Peoria, Ill. Lecture stands. 556,726, Mar. 25; Serial No. 612,286, published Jan. 1, 1952. Class 32.

Vanta Company, Inc., The: *See*—
Earnshaw Knitting Company.

Verga, Frank, Moss Landing, assignor to Santa Cruz Canning Company, San Francisco, Calif. Canned sardines. 556,542, Mar. 25; Serial No. 580,385, published Jan. 8, 1952. Class 46.

Victor Balata & Textile Belting Co., Easton, Pa., New York, N. Y., and Chicago, Ill. Special car-lighting belting. 86,643, re-renewed May 21, 1952. O. G. Mar. 25. Class 35.

Vineland Poultry Laboratories, Landis Township, Cumberland County, N. J. Rodenticide. 556,804, Mar. 25; Serial No. 607,273. Class 6.

Voges, Sonny C., doing business under the fictitious firm name of Plastic-View Transparent Shades, Los Angeles, Calif. Transparent window shades. 556,624, Mar. 25; Serial No. 600,797, published Jan. 1, 1952. Class 32.

Vve Th. Dumont Fils et Cie.: *See*—
Hammel, Riglander-Pennant Corporation.

Wall-Streeter Shoe Co., North Adams, Mass. Men's and boys' shoes. 556,547, Mar. 25; Serial No. 582,195, published Oct. 16, 1951. Class 39.

Walter, H. G., doing business as The Scorb Company, Kansas City, Kans. Anti-oxidant for use in fresh fruits. 556,677, Mar. 25; Serial No. 606,915, published Jan. 1, 1952. Class 46.

Walun Trading Company, San Francisco, Calif. Canned clams and canned abalone. 556,684, Mar. 25; Serial No. 607,833, published Dec. 11, 1951. Class 46.

Ward Lumber Company, Aurora, Ill. Making loans and arranging for loans. 556,779, Mar. 25; Serial No. 594,821, published Jan. 1, 1952. Class 102.

Warren Knitting Mills, Inc., assignee: *See*—
Duet Hosiery Corp.

Washington Steel Products, Inc., Tacoma, Wash. Cabinet hardware. 556,770, Mar. 25; Serial No. 615,962, published Jan. 1, 1952. Class 13.

Watson, Harold E., Dallas, Tex. Artificial fishing lure. 556,799, Mar. 25; Serial No. 594,603. Class 22.

Webster Cigar Company, assignor to Webster Eisenlohr, Inc., to Webster Tobacco Company, Inc., New York, N. Y. Cigars. 290,511–12, renewed Jan. 5, 1952. O. G. Mar. 25. Class 17.

Webster Eisenlohr, Inc., to Webster Tobacco Company, Inc., New York, N. Y. Cigars. 293,614, renewed May 3, 1952. O. G. Mar. 25. Class 17.

Webster Eisenlohr, Inc.: *See*—
Webster Cigar Company.

Webster Tobacco Company, Inc.: *See*—
Kleiner Cigar Manufacturing Company.
Webster Cigar Company.
Webster Eisenlohr, Inc.

West Disinfecting Company, Long Island City, N. Y. Automatic deodorizers. 556,722, Mar. 25; Serial No. 611,671, published Jan. 1, 1952. Class 13.

Western Tablet & Stationery Corporation: *See*—
Blair, J. C., Company.

Western Tire Auto Stores, Inc., Chicago, Ill. Liquid polishing and cleaning compound. 556,660, Mar. 25; Serial No. 604,503, published Jan. 1, 1952. Class 4.

Westgate-Sun Harbor Company, San Diego and Monterey, Calif. Canned fish and canned shellfish. 556,695, Mar. 25; Serial No. 609,153, published Jan. 1, 1952. Class 46.

Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Store display screens. 556,539, Mar. 25; Serial No. 576,828, published Jan. 1, 1952. Class 32.

Whitman, Stephen F., & Son, Inc., Philadelphia, Pa. Candy. 556,759, Mar. 25; Serial No. 614,799, published Dec. 18, 1951. Class 46.

Willson Products, Inc., Reading, Pa. Display stands. 556,694, Mar. 25; Serial No. 609,064, published Jan. 1, 1952. Class 32.

Willson Products, Inc., Reading, Pa. Ophthalmic and protection lenses. 556,771, Mar. 25; Serial No. 617,173, published Nov. 27, 1951. Class 26.

Wilson, Odell, Cleveland, Ohio, by Corega Chemical Company, Jersey City, N. J. Dental powder. 96,214, Apr. 7, 1914. Republished Mar. 25. Class 51.

Winthrop-Stearns Inc., New York, N. Y. Analgesic preparation. 556,705, Mar. 25; Serial No. 610,112, published Nov. 13, 1951. Class 18.

Winthrop-Stearns Inc., New York, N. Y. Organic iodine compound. 556,706, Mar. 25; Serial No. 610,113, published Nov. 13, 1951. Class 18.

Wise, Willard J., assignor to Kiddie Kasuals, Inc., Chicago, Ill. Children's pinafores, slips, panties, etc. 556,793, Mar. 25; Serial No. 587,516. Class 39.

Wolf Brothers, Inc., Philadelphia, Pa. Merchandise bags and merchandise envelopes. 556,712, Mar. 25; Serial No. 610,483, published Jan. 8, 1952. Class 2.

Woo, George, doing business as W. Fay Company, Los Angeles, Calif. Fresh deciduous fruits and fresh vegetables. 556,507, Mar. 25; Serial No. 561,279, published Jan. 1, 1952. Class 46.

Wood Products Manufacturing Co., Rocky Mount, N. C. Venetian blinds. 556,664, Mar. 25; Serial No. 604,710, published Jan. 1, 1952. Class 32.

Woodenware Products Corporation, St. Louis, Mo. Step ladders, single ladders, extension ladders, etc. 556,798, Mar. 25; Serial No. 594,008. Class 50.

Wright, John H., Chicago, Ill. Jigsaw puzzle. 556,789, Mar. 25; Serial No. 582,872. Class 22.

Wurgaft, R. B., doing business as California Citrus Processors, Anaheim, Calif. Canned orange juice. 556,642, Mar. 25; Serial No. 602,590, published Jan. 1, 1952. Class 46.

Wyeth Incorporated, Philadelphia, Pa. Diethylstilbestrol implantation pellets for veterinary use. 556,701, Mar. 25; Serial No. 609,754, published Nov. 6, 1951. Class 18.

Young, J. H., Company: *See*—
Young, James H.

Young, James H., doing business as J. H. Young Company, Pittsburgh, Pa. Canisters. 556,651, Mar. 25; Serial No. 603,655, published Jan. 8, 1952. Class 2.

Zion Industries, Inc., Zion, Ill. Cookies. 556,718, Mar. 25; Serial No. 611,326, published Dec. 4, 1951. Class 46.

Zizine, Pierre, Paris, France. Medicinal preparation. 286,494, renewed Sept. 1, 1951. O. G. Mar. 25. Class 18.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Acetate in roll form cut into narrow rolls and sheets. Coating Products. 556,795, Mar. 25; Serial No. 590,142.
Coal and washed coal. Norton Coal Corporation. 551,596, Dec. 4, 1951. Corrected. O. G. Mar. 25.
Coal, Bituminous. Phoenix Fuel Company. 556,802, Mar. 25; Serial No. 600,785.
Mineral oils, cod liver oil, mouth wash antiseptic, etc. Halsey Drug Company Inc. 364,375, Jan. 31, 1939. Republished Mar. 25.
Seed, Lawn. Caldwell Seed Company. 341,084, Dec. 1, 1936. Republished Mar. 25.

CLASS 2

Bags, Merchandise, and merchandise envelopes. Wolf Brothers, Inc. 556,712, Mar. 25; Serial No. 610,483, published Jan. 8, 1952.
Basins, Catch, spice bins, pails and buckets, etc. St. John & Co. 556,480, Mar. 25; Serial No. 519,701, published Feb. 28, 1950.
Boxes, Cardboard. American Box Board Company. 556,479, Mar. 25; Serial No. 507,228, published July 24, 1951.
Boxes, Corrugated paper. Shelton Manufacturing Co., Inc. 556,685, Mar. 25; Serial No. 607,904, published Jan. 8, 1952.
Boxes, Multiple section storage. Sho-Me, Inc. 556,604, Mar. 25; Serial No. 596,811, published Jan. 8, 1952.
Canisters. James H. Young. 556,651, Mar. 25; Serial No. 603,655, published Jan. 8, 1952.
Cases, Cork insulated and canvas covered shipping and storage. Meese, Inc. 556,607, Mar. 25; Serial No. 597,450, published Jan. 8, 1952.
Cases, Imitation leather. Universal Auto Products Corporation. 556,491, Mar. 25; Serial No. 545,601, published Jan. 1, 1952.
Metal corn cribs and grain bins. Clayton & Lambert Manufacturing Company. 556,762, Mar. 25; Serial No. 615,157, published Jan. 8, 1952.
Partitions or fillers. Traver Corporation. 556,496, Mar. 25; Serial No. 552,898, published Sept. 11, 1951.
Receptacle. Garner & Co. 556,673, Mar. 25; Serial No. 606,215, published Jan. 1, 1952.
Tanks, Liquefied petroleum gas storage. The J. B. Beaird Company, Inc. 556,501, Mar. 25; Serial No. 555,589, published Jan. 1, 1952.
Vacuum bottle, Insulated. Vacuum Products Corporation. 556,717, Mar. 25; Serial No. 611,318, published Jan. 8, 1952.
Vaults and buckets, Thermally insulated base metal ice. The Heller Company. 444,673, Mar. 25; Serial No. 489,118, published Jan. 1, 1952.

CLASS 4

Cleaning and polishing preparation. D. S. Appell. 556,562, Mar. 25; Serial No. 589,237, published Dec. 25, 1951.
Liquid preparation for waxing floors, wood work, metal work, etc. Masury-Young Company. 289,914, renewed Dec. 15, 1951. O. G. Mar. 25.
Metal-polish. Charles Ulrich & Co. 37,449, re-renewed Dec. 10, 1951. O. G. Mar. 25.
Polish and dressing, Shoe. Harri Hoffmann Co. 556,727, Mar. 25; Serial No. 612,325, published Jan. 1, 1952.
Polishing and cleaning compound, Liquid. Western Tire Auto Stores, Inc. 556,660, Mar. 25; Serial No. 604,503, published Jan. 1, 1952.
Wax, Floor, and polishing materials. American Stores Company. 556,558, Mar. 25; Serial No. 588,542, published Dec. 25, 1951.

CLASS 5

Adhesive tape, Pressure-sensitive. Minnesota Mining & Manufacturing Company. 556,555–6, Mar. 25; Serial Nos. 586,869–70, published Dec. 25, 1951.
Cement preparation. Coating Materials Laboratories, Inc. 556,502, Mar. 25; Serial No. 594,198, published Dec. 25, 1951.
Cements. A. B. Dick Company. 556,639, Mar. 25; Serial No. 602,376, published Dec. 25, 1951.
Refrigeration packaging products—namely—sealing tape. International Harvester Company. 556,634, Mar. 25; Serial No. 601,793, published Jan. 1, 1952.
Refrigeration packaging products—namely—sealing tape. International Harvester Company. 556,635, Mar. 25; Serial No. 601,796, published Jan. 1, 1952.

CLASS 6

Air purifier, Liquid, and deodorant. The Great Atlantic and Pacific Tea Company. 556,757, Mar. 25; Serial No. 614,622, published Jan. 1, 1952.

Chemicals. Research Products Company. 556,725, Mar. 25; Serial No. 612,088, published Jan. 1, 1952.
Coal tar colors. Society of Chemical Industry in Basle. 291,408, renewed Feb. 9, 1952. O. G. Mar. 25.
Disinfectant. L. Sonneborn Sons, Inc. 86,248, re-renewed Apr. 23, 1952. O. G. Mar. 25.
Dyestuffs, lakes, and chemical products. Geigy Company, Inc. 290,749, renewed Jan. 12, 1952. O. G. Mar. 25.
Electrolytes or solutions for batteries. Ionite Battery Corporation. 556,565, Mar. 25; Serial No. 589,724, published Jan. 8, 1952.
Fire extinguishing liquid. The Buckeye Soda Company. 556,758, Mar. 25; Serial No. 614,647, published Jan. 1, 1952.
Insecticide. Shell Chemical Corporation. 556,764, Mar. 25; Serial No. 615,251, published Jan. 8, 1952.
Liquified petroleum gas. Pressure Products Corporation. 556,593, Mar. 25; Serial No. 594,490, published Feb. 6, 1951.
Material for degreening citrus fruits and for controlling decay in fresh fruits and vegetables. Skinner Machinery Company, Inc. 556,760, Mar. 25; Serial No. 614,902, published Jan. 1, 1952.
Mineral oils, cod liver oil, mouth wash antiseptic, etc. Halsey Drug Company Inc. 364,375, Jan. 31, 1939. Republished Mar. 25.
Mothproofing and moth repellent agents. Geigy Company, Inc. 444,586, Oct. 23, 1951. Republished Mar. 25.
Rodent poison. d-Con Company. 556,650, Mar. 25; Serial No. 603,577, published July 3, 1951.
Rodenticide. Tobal Products Inc. 556,767, Mar. 25; Serial No. 615,614, published Jan. 8, 1952.
Rodenticide. Vineland Poultry Laboratories. 556,804, Mar. 25; Serial No. 607,273.
Supplementary synthetic tanning agent. Reilly-Whiteman-Walton Company. 556,768, Mar. 25; Serial No. 615,721, published Jan. 8, 1952.

CLASS 7

Rope, Manila and sisal. Columbian Rope Company. 84,727, re-renewed Jan. 2, 1952. O. G. Mar. 25.

CLASS 10

Fertilizers. Caldwell Seed Company. 340,201, Nov. 3, 1936. Republished Mar. 25.

CLASS 11

Writing fluid. N. Schulman. 556,785, Mar. 25; Serial No. 567,049.

CLASS 12

Ceramic floor and wall tile. Selectile Company, Inc. 556,571, Mar. 25; Serial No. 590,785, published Dec. 25, 1951.
Ceramic wall tile. Gladding, McBean & Co. 556,578, Mar. 25; Serial No. 591,568, published Dec. 25, 1951.
Conjoint acting combination of partly prepared units for kiln- and electric-furnace lining. E. J. Lavino and Company. 556,524, Mar. 25; Serial No. 569,627, published Dec. 18, 1951.
Doors, Shower bath, bath tub enclosures and shower bath enclosures. Stich Bros. Mfg. Co. 556,493, Mar. 25; Serial No. 547,578, published Dec. 18, 1951.
Grouting material. Armstrong Cork Company. 556,515, Mar. 25; Serial No. 565,160, published Dec. 18, 1951.
Mouldings used for window panes for store front constructions, store entrances and doors for buildings, etc. National Store Fronts Co., Inc. 556,549, Mar. 25; Serial No. 582,851, published Dec. 18, 1951.
Plywood. Douglas Fir Plywood Association. 556,782, Mar. 25; Serial No. 605,784, published Dec. 25, 1951.

CLASS 13

Bar and restaurant equipment. Tyson Metal Products. 556,494, Mar. 25; Serial No. 547,581, published Jan. 1, 1952.
Cabinet hardware. Washington Steel Products, Inc. 556,770, Mar. 25; Serial No. 615,962, published Jan. 1, 1952.
Certain articles of holloware. National Silver Company. 556,736, Mar. 25; Serial No. 613,142, published Nov. 13, 1951. (Consolidated certificate, Classes 13 and 26.)
Deodorizers, Automatic. West Disinfecting Company. 556,722, Mar. 25; Serial No. 611,671, published Jan. 1, 1952.
Electric latrines. H. G Martin. 444,674, Mar. 25; Serial No. 502,907, published Jan. 1, 1952.
Rotary unions to convey liquid or gas into or out of revolving cylinders, rolls or drums. Perfecting Service Company. 556,788, Mar. 25; Serial No. 579,054.
Screw connections and parts of screw connections. Heli-Coil Corporation. 556,693, Mar. 25; Serial No. 608,990, published Dec. 25, 1951.

Sprinkler systems, Automatic. "Automatic" Sprinkler Corporation of America. 556,690, Mar. 25; Serial No. 608,847, published Jan. 1, 1952.
Sprinkler systems, Automatic. "Automatic" Sprinkler Corporation of America. 556,691, Mar. 25; Serial No. 608,855, published Jan. 1, 1952.
Staples. Markwell Mfg. Co., Inc. 227,988, May 17, 1927. Republished Mar. 25.
Valves, Plumbing and steam-fitting, and metal pipe fittings. Hasco Valve and Machine Co. 352,356, Nov. 30, 1937. Republished Mar. 25.
Wire fence. The Colorado Fuel and Iron Company. 291,282, renewed Feb. 9, 1952. O. G. Mar. 25.

CLASS 14

Alloy steel used in the production of metal working tools and dies. Allegheny Ludlum Steel Corporation. 556,773, Mar. 25; Serial No. 617,832, published Jan. 8, 1952.
Die casting alloy. The New Jersey Zinc Company. 552,346, Dec. 18, 1951. Corrected. O. G. Mar. 25.
Drill rods and cold drawn steel. Pittsburgh Tool Steel Wire Company. 292,835, renewed Mar. 29, 1952. O. G. Mar. 25.
Marine anchors. Northill Company, Inc. 556,774, Mar. 25; Serial No. 618,364, published Jan. 8, 1952.
Metal strip or sheet material. Superior Steel Corporation. 292,368, renewed Mar. 15, 1952. O. G. Mar. 25.
Plates of tungsten carbide and cutlery steel. Aktiebolaget Bofors. 556,772, Mar. 25; Serial No. 617,594, published Jan. 8, 1952.

CLASS 15

Additive for fuel oils. United States Aviex Company. 556,787, Mar. 25; Serial No. 575,103.

CLASS 16

Paints. L. Sonneborn Sons, Inc. 86,105, re-renewed Apr. 9, 1952. O. G. Mar. 25.

CLASS 17

Cigarettes. J. A. Pattreiouex (Overseas) Limited. 556,688, Mar. 25; Serial No. 608,472, published Dec. 18, 1951.
Cigarettes. Stephano Brothers. 556,738, Mar. 25; Serial No. 613,246, published Dec. 25, 1951.
Cigars. H. Anton Bock Co. Inc. 556,490, Mar. 25; Serial No. 544,033, published Jan. 1, 1952.
Cigars. Corral, Wodiska y Ca. 294,142, renewed May 17, 1952. O. G. Mar. 25.
Cigars. H & M Cigar Factory, Inc. 556,572, Mar. 25; Serial No. 591,033, published Dec. 11, 1951.
Cigars. Kleiner Cigar Manufacturing Company. 290,431–32, renewed Jan. 5, 1952 O. G. Mar. 25.
Cigars. Webster Cigar Company. 290,511–12, renewed Jan. 5, 1952. O. G. Mar. 25.
Cigars. Webster Eisenlohr, Inc. 293,614, renewed May 3, 1952. O. G. Mar. 25.
Cigars, cigarettes, smoking tobacco, etc. Rock City Tobacco Company (1936) Limited. 556,535, Mar. 25; Serial No. 573,740, published Jan. 1, 1952.
Tobacco, Pipe, and cigarettes. Rum and Maple Tobacco Corporation. 556,659, Mar. 25; Serial No. 604,449, published Jan. 1, 1952.
Tobacco, Plug cut. The American Tobacco Company. 556,531, Mar. 25; Serial No. 571,885, published Dec. 18, 1951.

CLASS 18

Analgesic composition. Commercial Solvents Corporation. 556,600, Mar. 25; Serial No. 596,265, published Nov. 6, 1951.
Analgesic preparation. Winthrop-Stearns Inc. 556,705, Mar. 25; Serial No. 610,112, published Nov. 13, 1951.
Antiseptics. The Pepsodent Co. 291,419, renewed Feb. 9, 1952. O. G. Mar. 25.
Aspirin, Children's. Forrest, Inc. 556,559, Mar. 25; Serial No. 588,638, published Nov. 13, 1951.
Blood plasma substitute. Commercial Solvents Corporation. 556,703, Mar. 25; Serial No. 609,910, published Nov. 13, 1951.
Blood plasma substitute. Commercial Solvents Corporation. 556,704, Mar. 25; Serial No. 609,912, published Nov. 13, 1951.
Cough syrup, cold tablets, laxatives, etc. Herb-Craft Health Products, Inc. 556,519, Mar. 25; Serial No. 566,141, published Dec. 18, 1951.
Diethylstilbestrol implantation pellets for veterinary use. Wyeth Incorporated. 556,701, Mar. 25; Serial No. 609,754, published Nov. 6, 1951.
Emulsion of white mineral oil. The Upjohn Company. 291,440, renewed Feb. 9, 1952. O. G. Mar. 25.
Laxative. Delfino Arrioja y V. 556,794, Mar. 25; Serial No. 587,989.
Laxative preparations. The Upjohn Company. 85,625, re-renewed Feb. 27, 1952. O. G. Mar. 25.
Liquid preparation for the treatment of earache. Chicago Pharmacal Company. 346,824, June 8, 1937. Republished Mar. 25.
Medicated ointment. Lambert Pharmacal Company. 291,938, renewed Feb. 23, 1952. O. G. Mar. 25.
Medicinal preparation. P. Zisine. 286,494, renewed Sept. 1, 1951. O. G. Mar. 25.
Mineral oils, cod liver oil, mouth wash antiseptic, etc. Halsey Drug Company Inc. 364,375, Jan. 31, 1939. Republished Mar. 25.
Ophthalmic solution. Commercial Solvents Corporation. 556,702, Mar. 25; Serial No. 609,909, published Nov. 13, 1951.
Organic iodine compound. Winthrop-Stearns Inc. 556,706, Mar. 25; Serial No. 610,113, published Nov. 13, 1951.
Pharmaceutical preparation, metal salt impregnated gauze, and a burn treatment unit package. Hynson, Westcott & Dunning, Incorporated. 556,728, Mar. 25; Serial No. 612,546, published Nov. 27, 1951.
Preparation used for cannibalism in poultry. Apothecaries Hall Company. 294,361, renewed May 24, 1952. O. G. Mar. 25.
Specific for the cure of kidney and bladder complaints. Foster-McClellan Co. 38,031, re-renewed Apr. 1, 1952. O. G. Mar. 25.
Suppository or an ointment. The Upjohn Company. 291,458, renewed Feb. 9, 1952. O. G. Mar. 25.

CLASS 19

Brake shoes with bonded brake linings for automotive vehicles. Cahill Manufacturing Co. 556,797, Mar. 25; Serial No. 593,053.

CLASS 20

Cloth, coated, impregnated, processed, or treated with oil or oils, etc., and adapted for use as a decorative and utility material for wall coverings, etc. Interchemical Corporation. 556,518, Mar. 25; Serial No. 565,991, published Jan. 1, 1952.
Linoleum. Armstrong Cork Company. 556,748–9, Mar. 25; Serial Nos. 613,798–9, published Dec. 25, 1951.
Wall covering, floor covering, and counter topping, Felt base ornamental surfaced. Bird & Son, Inc. 556,714, Mar. 25; Serial No. 610,818, published Jan. 1, 1952.

CLASS 21

Articles and parts formed in whole or in part from molded plastic insulating compounds, etc. The Kurs-Kasch Co. 291,490, renewed Feb. 9, 1952. O. G. Mar. 25.
Electric percolators and electric snack servers. National Silver Company. 556,736, Mar. 25; Serial No. 613,143, published Dec. 4, 1951. (Consolidated certificate, Classes 13 and 21.)
Plastic composition in the form of thread or rodding used as wound electrical insulation. The Rex Co., Inc. 419,098, Feb. 5, 1946. Republished Mar. 25.

CLASS 22

Baseball gloves. Nocona Leather Goods Company. 556,775, Mar. 25; Serial No. 618,896, published Jan. 1, 1952.
Blocks, Pop-up, mechanical skiing figure toy, interlocking type blocks, etc. Noma Electric Corporation. 556,663, Mar. 25; Serial No. 604,658, published Jan. 8, 1952.
Fishing lure, Artificial. H. E. Watson. 556,799, Mar. 25; Serial No. 594,603.
Puppets. S. E. Sellers. 556,765, Mar. 25; Serial No. 615,263, published Jan. 8, 1952.
Puzzle, Jigsaw. J. H. Wright. 556,789, Mar. 25; Serial No. 582,872.
Table and parts thereof especially constructed for a game. Parker Brothers, Inc. 294,408, renewed May 24, 1952. O. G. Mar. 25.
Tops, Spinning. D. R. Bragado. 556,756, Mar. 25; Serial No. 614,399, published Jan. 8, 1952.
Toys, Floor, and pull toys. Noma Electric Corporation. 556,662, Mar. 25; Serial No. 604,657, published Jan. 8, 1952.

CLASS 23

Apparatus for liquefying gas or solids. Dryice Corporation of America. 292,486, renewed Mar. 15, 1952. O. G. Mar. 25.
Apparatus for loading and trimming pulverulent, granular or small lump material. Stephens-Adamson Mfg. Co. 556,481, Mar. 25; Serial No. 523,337, published Dec. 4, 1951.
Beverage stirrers. Nu-Pro Corporation. 539,342, Mar. 13, 1951. New certificate. O. G. Mar. 25.
Bulldozers and scarifiers. W. J. Blake. 556,610, Mar. 25; Serial No. 597,998, published Jan. 1, 1952.
Concrete block making machines and parts thereof. Stearns Manufacturing Company, Inc. 556,661, Mar. 25; Serial No. 604,603, published Dec. 25, 1951.
Dispensing machines and parts thereof, Automatic coin-operated. Trans-Meter Corporation. 556,503, Mar. 25; Serial No. 555,851, published Nov. 20, 1951.
Drill collars. American Hollow Boring Company. 556,614, Mar. 25; Serial No. 598,623, published Nov. 27, 1951.
Drill collars. American Hollow Boring Company. 556,615, Mar. 25; Serial No. 598,624, published Nov. 6, 1951.
Drying, dyeing, bleaching, and carbonizing machines and parts thereof, conveyors, etc. R. C. Parkes. 556,551, Mar. 25; Serial No. 583,885, published Nov. 20, 1951.
Force pumps, Piston type. Hasco Valve and Machine Co. 424,504, Oct. 8, 1946. Republished Mar. 25.
Grain-cleaners, grain separators, grain-scourers, etc. The S. Howes Company. 86,594, re-renewed May 21, 1952. O. G. Mar. 25.

Hack saw frames, Extension, lathing hatchets, claw hatchets, etc. Dunham, Carrigan & Hayden Co. 444,675, Mar. 25; Serial No. 525,071, published Dec. 11, 1951.
Internal-combustion engines. Kermath Manufacturing Company. 556,596, Mar. 25; Serial No. 596,031, published Dec. 4, 1951.
Knives, Household, pocket knives, hunting knives, etc. Utica Cutlery Company. 556,594, Mar. 25; Serial No. 595,344, published Nov. 6, 1951.
Metal pins, Tapered grooved. Groov-Pin Corporation. 556,486, Mar. 25; Serial No. 536,689, published Dec. 25, 1951.
Pencil sharpeners and parts therefor. Spengler-Loomis Manufacturing Company. 556,527, Mar. 25; Serial No. 571,179, published Nov. 27, 1951.
Platens. Ames Supply Company. 556,751, Mar. 25; Serial No. 613,963, published Dec. 25, 1951.
Portable machines. Pettibone Mulliken Corporation. 556,520, Mar. 25; Serial No. 566,765, published Oct. 23, 1951.
Printing presses, Rotary, rotary folders, and stereotype equipment, etc. Duplex Printing Press Co. 286,707, renewed Sept. 1, 1951. O. G. Mar. 25.
Shoe shine machines. S. Sacks. 556,678, Mar. 25; Serial No. 607,099, published Oct. 23, 1951.
Sifters and strainers, Automatically-operated. Foundry Supplies Manufacturing Co. 556,652, Mar. 25; Serial No. 603,672, published Dec. 25, 1951.
Stapling machines. Markwell Manufacturing Company, Inc. 556,563, Mar. 25; Serial No. 589,265, published Dec. 18, 1951.
Syphon unit. The Johnson Corporation. 556,521, Mar. 25; Serial No. 566,842, published Jan. 1, 1952.
Tool handles, Hickory. Sequatchie Handle Works. 556,512, Mar. 25; Serial No. 564,221, published Oct. 23, 1951.
Tools, Power actuated. Portable Industries, Inc. 556,588, Mar. 25; Serial No. 593,936, published June 26, 1951.
Tweezers, pliers, and nippers. Hammel, Riglander-Pennant Corporation. 312,598, May 1, 1934. New certificate. O. G. Mar. 25.
Vibrators, Automatically operated. Foundry supplies Manufacturing Co. 556,653, Mar. 25; Serial No. 603,673, published Dec. 25, 1951.
Water supply systems. Sears, Roebuck and Co. 556,560, Mar. 25; Serial No. 588,893, published Nov. 13, 1951.
Wood scrapers, wall scrapers, putty knives, etc. Red Devil Tools. 556,540, Mar. 25; Serial No. 579,214, published Nov. 27, 1951.

CLASS 24

Laundry fastener or clip. H. A. Hosey. 556,618, Mar. 25; Serial No. 599,766, published Jan. 8, 1952.

CLASS 25

Locksmiths' supplies. Independent Lock Company. 556,511, Mar. 25; Serial No. 564,128, published Jan. 1, 1952.

CLASS 26

Binoculars, field glasses, and opera or theater glasses. B. Friedberg. 556,644, Mar. 25; Serial No. 602,829, published Nov. 27, 1951.
Binoculars, field glasses, and opera or theater glasses. B. Friedberg. 556,645, Mar. 25; Serial No. 602,830, published Dec. 4, 1951.
Binoculars, field glasses, and opera or theater glasses. B. Friedberg. 556,646, Mar. 25; Serial No. 602,831, published Nov. 27, 1951.
Counting apparatus. Chalex Corporation. 556,526, Mar. 25; Serial No. 570,767, published Dec. 4, 1951.
Film strips, motion picture films and still picture films. O. C. Goldner. 556,676, Mar. 25; Serial No. 606,771, published Dec. 4, 1951.
Instruments for the combined recording of time and production. The National Acme Company. 290,236, renewed Dec. 22, 1951. O. G. Mar. 25.
Meters. Neptune Meter Company. 281,675, renewed Mar. 24, 1951. O. G. Mar. 25.
Motion picture film. Robert Yarnall Richie Productions, Inc. 556,625, Mar. 25; Serial No. 600,852, published Dec. 4, 1951.
Ophthalmic and protection lenses. Willson Products, Inc. 556,771, Mar. 25; Serial No. 617,173, published Nov. 27, 1951.
Optical frames. H. M. Greene. 556,612, Mar. 25; Serial No. 598,416, published Dec. 4, 1951.
Plastic filters or sunshade filters. Filterzone Auto-Vision Co. 556,647, Mar. 25; Serial No. 603,186, published Dec. 4, 1951.
Recording apparatus. The Dickson Company. 556,585, Mar. 25; Serial No. 592,618, published Dec. 4, 1951.

CLASS 27

Time pieces for vehicles. Z. Maar. 556,809, Mar. 25; Serial No. 612,023.
Watches and clocks. Ollendorff Watch Co., Inc. 556,698, Mar. 25; Serial No. 609,415, published Nov. 13, 1951.
Watches, chronographs, stop watches, etc. Pierce Watch Company, Inc. 556,732, Mar. 25; Serial No. 612,758, published Jan. 8, 1952.
Watches, clocks, watch movements, etc. A. G. Rodana. 556,649, Mar. 25; Serial No. 603,309, published Nov. 27, 1951.
Watches, watch parts and watch movements. Omega Louis Brandt & Frere, S. A. 556,602, Mar. 25; Serial No. 596,436, published Nov. 27, 1951.

CLASS 28

Emeralds and precious stones. Trabert & Hoeffer Inc. 556,570, Mar. 25; Serial No. 590,766, published Nov. 27, 1951.
Jewelry. A. Micallef & Co., Inc. 556,629, Mar. 25; Serial No. 601,113, published Nov. 27, 1951.
Jewelry. I. Schoncite. 556,552, Mar. 25; Serial No. 583,891, published Nov. 27, 1951.
Jewelry, Ladies' costume. Perry Novelty Company. 556,548, Mar. 25; Serial No. 582,387, published Nov. 27, 1951.
Pearls, Simulated, and simulated pearl jewelry. Imperial Pearl Syndicate, Inc. 556,603, Mar. 25; Serial No. 596,667, published Nov. 27, 1951.
Watch bands. Manco Watch Strap Co., Inc. 556,700, Mar. 25; Serial No. 609,688, published Nov. 27, 1951.
Watch bands, cuff links and tie bars. Jacques Kreisler Manufacturing Corporation. 556,574, Mar. 25; Serial No. 591,090, published Nov. 27, 1951.
Wrist watch bands. Jacques Kreisler Manufacturing Corporation. 556,630, Mar. 25; Serial No. 601,264, published Nov. 27, 1951.

CLASS 29

Brushes, Artists' paint. N. Marx. 556,800, Mar. 25; Serial No. 597,408.

CLASS 30

Ceramic dinnerware. National Silver Company. 556,616, Mar. 25; Serial No. 599,524, published Nov. 27, 1951.

CLASS 32

Beds, chests, bureaus, etc. W. & J. Sloane. 444,628–9, Jan. 1, 1952. Corrected. O. G. Mar. 25.
Beds, Wood, dressers, chests of drawers, etc. Puritan Furniture Mfrs. 556,536, Mar. 25; Serial No. 574,050, published Jan. 1, 1952.
Cabinets, Bathroom, side storage cabinets, vanity tables, etc. Bath Maid, Inc. 556,608, Mar. 25; Serial No. 597,491, published Jan. 1, 1952.
Cabinets, lockers, cupboards, etc. Remington Rand Inc. 288,168, renewed Oct. 20, 1951. O. G. Mar. 25.
Cabinets, Metal medicine. Stylon Corporation. 556,747, Mar. 25; Serial No. 613,743, published Dec. 25, 1951.
Cabinets, Wall, floor cabinets, doors, etc. Geneva Modern Kitchens, Inc. 556,569, Mar. 25; Serial No. 590,149, published Dec. 18, 1951.
Chairs, Douglas Furniture Corporation. 556,707, Mar. 25; Serial No. 610,121, published Jan. 1, 1952.
Chairs, Lounge. Spiegel, Inc. 556,746, Mar. 25; Serial No. 613,737, published Dec. 25, 1951.
Chairs, Lounge, lamp tables, cocktail tables, etc. Grand Rapids Chair Company. 556,692, Mar. 25; Serial No. 608,989, published Jan. 1, 1952.
Desks and tables, Office, and structural parts thereof. Federal Equipment Company. 556,631, Mar. 25; Serial No. 601,494, published Jan. 1, 1952.
Display screens, Store. Westinghouse Electric Corporation. 556,539, Mar. 25; Serial No. 576,828, published Jan. 1, 1952.
Display stands. Willson Products, Inc. 556,694, Mar. 25; Serial No. 609,064, published Jan. 1, 1952.
Filing tray, Record card. The Globe-Wernicke Co. 556,682, Mar. 25; Serial No. 607,669, published Sept. 4, 1951.
Furniture, Chromed, steel tubular, plastic, and wooden. Daystrom, Incorporated. 556,739, Mar. 25; Serial No. 613,401, published Jan. 1, 1952.
Furniture, Metal. K & G Manufacturing Co. 556,620, Mar. 25; Serial No. 600,287, published Dec. 25, 1951.
Furniture, Outdoor. Goshen Manufacturing Company. 556,514, Mar. 25; Serial No. 564,939, published Jan. 1, 1952.
Furniture, Plastic-coated tubular. Daystrom, Incorporated. 556,734, Mar. 25; Serial No. 612,850, published Jan. 1, 1952.
Mattress side walls. The Ohio Mattress Company. 556,713, Mar. 25; Serial No. 610,629, published Jan. 1, 1952.
Posting trays, rolling filing cabinets, rolling pedestals. Charles R. Hadley Company. 556,586, Mar. 25; Serial No. 593,347, published Jan. 1, 1952.
Racks for books, racks for magazines, etc. S. S. Schiffer. 556,711, Mar. 25; Serial No. 610,379, published Jan. 1, 1952.
Seats and back rests. W. S. Ferris. 292,511, renewed Mar. 13, 1952. O. G. Mar. 25.
Spring cushion units. Comfort Spring Corporation. 556,597–8, Mar. 25; Serial Nos. 596,077–8, published Dec. 18, 1951.
Stands, Lecture. E. Van Allen. 556,726, Mar. 25; Serial No. 612,286, published Jan. 1, 1952.

Tables, Cocktail, coffee tables, end tables, etc. Founders Furniture Company. 556,636, Mar. 25; Serial No. 601,898, published Dec. 25, 1951.
Venetian blinds. Carey-McFall Company. 556,640, Mar. 25; Serial No. 602,492, published Dec. 25, 1951.
Venetian blinds. Rolscreen Company. 556,545, Mar. 25; Serial No. 581,734, published Jan. 1, 1952.
Venetian blinds. D. H. Ruggles. 556,506, Mar. 25; Serial No. 561,045, published Dec. 18, 1951.
Venetian blinds. Wood Products Manufacturing Co. 556,664, Mar. 25; Serial No. 604,710, published Jan. 1, 1952.
Window cornices. Kilray Blind Company. 556,628, Mar. 25; Serial No. 601,107, published Dec. 25, 1951.
Window shades, Transparent. S. C. Voges. 556,624, Mar. 25; Serial No. 600,797, published Jan. 1, 1952.

CLASS 34

Evaporators used for concentrating solutions under vacuum. Mojonnier Bros. Co. 556,786, Mar. 25; Serial No. 571,036.
Heaters, Space wall. Holly Manufacturing Company. 556,796, Mar. 25; Serial No. 590,157.

CLASS 35

Belting, Special car-lighting. Victor Balata & Textile Belting Co. 86,643, re-renewed May 21, 1952. O. G. Mar. 25.

CLASS 36

Pianos. Melodigrand Corp. 556,554, Mar. 25; Serial No. 586,009, published Jan. 1, 1952.
Stringed instrument. L. R. Trommer. 556,641, Mar. 25; Serial No. 602,378, published Jan. 1, 1952.

CLASS 37

Blank sheets for bookkeeping records, paper sheet packs, etc. National Blank Book Company. 556,733, Mar. 25; Serial No. 612,817, published Jan. 8, 1952.
Bound books, loose leaf binders, etc. Remington Rand Inc. 288,154, renewed Oct. 20, 1951. O. G. Mar. 25.
Envelopes, writing-tablets, pencil-tablets, etc. J. C. Blair Company. 86,030, re-renewed Apr. 9, 1952. O. G. Mar. 25.
Index cards, index strips and sheets, etc. Remington Rand Business Service, Inc. 289,923, renewed Dec. 15, 1951. O. G. Mar. 25.
Loose-leaf-book binders. The Heinn Company. 293,248, renewed Apr. 19, 1952. O. G. Mar. 25.
Paper, drawing-paper, pencil-paper, etc. J. C. Blair Company. 86,509, re-renewed May 14, 1952. O. G. Mar. 25.
Paper, Tympan. Riegel Paper Corporation. 290,444, renewed Jan. 5, 1952. O. G. Mar. 25.
Paper, Waxed. Sterling Pulp & Paper Company. 556,816, Mar. 25; Serial No. 621,602.
Papers, Waxed, plain glassine paper, waxed glassine paper, etc. Riegel Paper Corporation. 290,806, renewed Jan. 19, 1952. O. G. Mar. 25.

CLASS 38

Chart, Rotative hand manipulable. Tel-A-Phony, Inc. 556,792, Mar. 25; Serial No. 586,891.
Magazine. C. V. Bargren. 556,812, Mar. 25; Serial No. 615,475.
Magazine. Haywood Publishing Company. 556,803, Mar. 25; Serial No. 605,953.
Magazine, Monthly. McBride, Nast & Co. 86,666, re-renewed May 21, 1952. O. G. Mar. 25.
Newspaper. Signal Publishing Corporation. 288,025. Oct. 20, 1931. Republished Mar. 25.
Periodical. Ideal Publishing Corporation. 556,805, Mar. 25; Serial No. 607,858.
Photographic prints, pictures and picture cards. J. H. Lockhart. 556,806, Mar. 25; Serial No. 608,363.
Publication. McGraw-Hill Publishing Company, Inc. 556,807, Mar. 25; Serial No. 608,368.
Publication. Stoeger Arms Corporation. 556,808, Mar. 25; Serial No. 608,683.
Publication, Periodical. Television Forecast, Inc. 556,791, Mar. 25; Serial No. 585,257.

CLASS 39

Anklets and hosiery, Children's, ladies' and misses'. Shreve & Adams, Inc. 556,729, Mar. 25; Serial No. 612,364, published Jan. 1, 1952.
Boots and felt slippers, Infants', children's, misses' and little gents' cowboy. A. J. Beford Shoe, Incorporated. 556,665, Mar. 25; Serial No. 604,715, published Jan. 8, 1952.
Brassières, garter belts and girdles. Maiden Form Brassiere Co., Inc. 556,813–14, Mar. 25; Serial Nos. 617,963–6.
Capes, Women's sling. A. Harris and Company. 556,580, Mar. 25; Serial No. 591,850, published Jan. 8, 1952.
Coats and suits, Women's and misses'. Leslie Fay Fashions, Inc. 556,735, Mar. 25; Serial No. 612,901, published Jan. 8, 1952.
Coats, vests and pants, Men's. Hughes and Hatcher, Inc. 556,811, Mar. 25; Serial No. 615,180.
Collars, underdrawers, undershirts, etc., Textile. Tim & Co. 86,009, re-renewed Apr. 2, 1952. O. G. Mar. 25.
Dresses, coats, suits, etc., Ladies' and misses'. David Crystal, Inc. 556,557, Mar. 25; Serial No. 587,182, published Jan. 8, 1952.
Dresses, Ladies' and misses'. Beaumart Co. 556,815, Mar. 25; Serial No. 618,145.
Dresses, Women's. W. L. Chapman. 556,750, Mar. 25; Serial No. 613,867, published Jan. 1, 1952.
Garment coverings for legs and torsos, Sack type. E. E. Tanner, Jr. 556,784, Mar. 25; Serial No. 534,836.
Girdles and panty girdles. S. R. Brown. 556,478, Mar. 25; Serial No. 597,843, published Jan. 1, 1952.
Gloves and mittens. The Boss Manufacturing Company. 556,581, Mar. 25; Serial No. 591,909, published Jan. 1, 1952.
Hosiery. The H. B. Claflin Company. 83,897, re-renewed Oct. 24, 1951. O. G. Mar. 25.
Hosiery. Duet Hosiery Corp. 556,801, Mar. 25; Serial No. 599,159.
Hosiery. May Hosiery Mills, Inc. 293,140, renewed Apr. 12, 1932. O. G. Mar. 25.
Hosiery. Spurgeon Hosiery Corporation. 556,741, Mar. 25; Serial No. 613,613, published Jan. 1, 1952.
Hosiery, Men's and women's. Arthur Murray Enterprises, Inc. 556,667, Mar. 25; Serial No. 604,986, published Jan. 1, 1952.
Hosiery, Women's. Holeproof Hosiery Co. 556,716, Mar. 25; Serial No. 611,276, published Jan. 1, 1952.
Nightgowns, slips, and panties, Ladies' and misses' and junior misses'. Max Schwartz, Lingerie, Inc. 556,589, Mar. 25; Serial No. 594,070, published Jan. 1, 1952.
Pajamas, Men's and boys'. Lubin-Weeker Co., Inc. 556,745, Mar. 25; Serial No. 613,716, published Jan. 1, 1952.
Pinafores, slips, panties, etc., Children's. W. J. Wise. 556,793, Mar. 25; Serial No. 587,516.
Shoe counters. Endicott Johnson Corporation. 556,737, Mar. 25; Serial No. 613,165, published Jan. 8, 1952.
Shoes. Arch-Aid Shoe Shop, Inc. 556,679, Mar. 25; Serial No. 607,210, published Jan. 8, 1952.
Shoes. Bates Shoe Company. 556,606, Mar. 25; Serial No. 597,119, published Jan. 8, 1952.
Shoes. The Gilbert Shoe Co. 321,351, Jan. 29, 1935. Republished Mar. 25.
Shoes. International Shoe Company. 556,611, Mar. 25; Serial No. 598,190, published Jan. 8, 1952.
Shoes. Tame Shoe Corporation. 556,495, Mar. 25; Serial No. 551,829, published Jan. 8, 1952.
Shoes. Trimfoot Company. 556,689, Mar. 25; Serial No. 608,839, published Jan. 8, 1952.
Shoes, Canvas reversible safety. Bellerose Products Co. 556,643, Mar. 25; Serial No. 602,594, published Jan. 8, 1952.
Shoes, Light-weight rubber. Mishawaka Rubber and Woolen Manufacturing Company. 556,720, Mar. 25; Serial No. 611,527, published Jan. 8, 1952.
Shoes, Men's and boys'. Wall-Streeter Shoe Co. 556,547, Mar. 25; Serial No. 582,195, published Oct. 16, 1951.
Shoes, Men's and women's. The Florsheim Shoe Company. 556,619, Mar. 25; Serial No. 600,041, published Jan. 8, 1952.
Shoes, Men's athletic. Brooks Shoe Manufacturing Company. 556,489, Mar. 25; Serial No. 539,643, published Jan. 23, 1951.
Shoes, Men's, women's and children's. Avon Shoe Co., Inc. 556,671, Mar. 25; Serial No. 605,981, published Dec. 4, 1951.
Shoes, slippers and moccasins. Midwest Footwear, Inc. 556,709, Mar. 25; Serial No. 610,288, published Jan. 8, 1952.
Shoes, Women's. Cellini Shoes, Inc. 556,810, Mar. 25; Serial No. 614,487.
Shoes, Women's. Craddock-Terry Shoe Corporation. 556,723, Mar. 25; Serial No. 611,770, published Jan. 8, 1952.
Shoes, Women's. Keystone Slipper Co., Inc. 556,516, Mar. 25; Serial No. 565,631, published Jan. 8, 1952.
Shoes, Women's. Royce Shoe Corporation. 556,724, Mar. 25; Serial No. 611,859, published Jan. 8, 1952.
Shoes, Women's. Strawbridge & Clothier. 556,666, Mar. 25; Serial No. 604,866, published Dec. 11, 1951.
Slipper sox. Fairfield Glove Co. 556,654, Mar. 25; Serial No. 603,917, published Jan. 8, 1952.
Suits and coats, Men's and women's. Ellay Stores, Inc. 556,719, Mar. 25; Serial No. 611,507, published Jan. 8, 1952.
Suits, Boys' wash. J. H. Frank. 556,488, Mar. 25; Serial No. 539,038, published Feb. 22, 1949.
Suits, coats, and dresses, Women's. Phil Jacobs Co., Inc. 556,708, Mar. 25; Serial No. 610,275, published Jan. 8, 1952.
Suits, dresses, skirts, etc., Ladies', misses' and girls'. Julius Garfinckel & Co., Incorporated. 556,648, Mar. 25; Serial No. 603,189, published Jan. 8, 1952.
Sweaters, jackets, and sport shirts, Knitted. New York Knitting Mills, Inc. 556,740, Mar. 25; Serial No. 613,472, published Jan. 1, 1952.
Undershirts. Earnshaw Knitting Company. 85,801, re-renewed Mar. 19, 1952. O. G. Mar. 25.
Undershirts, Knitted. Rubens & Marble. 85,008, re-renewed Jan. 16, 1952. O. G. Mar. 25.

CLASS 40

Combs. Rheinische Gummi-und Celluloid-Fabrik. 278,872, renewed Dec. 20, 1950. O. G. Mar. 25.

CLASS 42

Piece goods, dish cloths, hair nets, etc. A. S. Eiseman. 297,884, Oct. 4, 1932. New certificate. O. G. Mar. 25.

CLASS 44

Dental, medical and surgical appliances. Ritter Company, Inc. 556,681, Mar. 25; Serial No. 607,519, published Dec. 25, 1951.
Laminated metallic backings for artificial teeth. The Columbus Dental Manufacturing Co. 556,638, Mar. 25; Serial No. 602,371, published Dec. 25, 1951.
Prophylactics. J. O. Covington. 556,633, Mar. 25; Serial No. 601,714, published Dec. 25, 1951.
Vaginal douches. United States Rubber Company. 288,982, Nov. 10, 1931. Republished Mar. 25.

CLASS 45

Non-alcoholic, maltless syrups. C. Baillod. 290,173, renewed Dec. 22, 1951. O. G. Mar. 25.

CLASS 46

Alimentary pastes. Megs Macaroni Company. 556,670, Mar. 25; Serial No. 605,865, published Dec. 25, 1951.
Anti-oxidant for use in fresh fruits. H. G. Walter 556,677, Mar. 25; Serial No. 606,915, published Jan. 1, 1952.
Avocados, Fresh. Calavo Growers of California. 556,752, Mar. 25; Serial No. 614,038, published Dec. 18, 1951.
Bacon. Swift & Company. 556,621, Mar. 25; Serial No. 600,311, published Jan. 8, 1952.
Bakery products. Geo. F. Stuhmer & Company. 556,601, Mar. 25; Serial No. 596,300, published Jan. 8, 1952.
Beef steaks. Stockyards Packing Co. Inc. 556,686, Mar. 25; Serial No. 608,049, published Jan. 8, 1952.
Blend of soybean and cottonseed oils. The Procter & Gamble Company. 556,710, Mar. 25; Serial No. 610,354, published Jan. 1, 1952.
Bread and rolls. Hart's Bakery, Inc. 556,609, Mar. 25; Serial No. 597,752, published Jan. 8, 1952.
Bread, pies, doughnuts, etc. Mrizek Bakers, Inc. 556,761, Mar. 25; Serial No. 614,953, published Dec. 18, 1951.
Butter, fresh eggs and dressed poultry. Armour and Company. 556,483, Mar. 25; Serial No. 533,258, published Dec. 11, 1951.
Candies, Assorted hard. Marshall Field & Company. 556,528, Mar. 25; Serial No. 571,281, published Oct. 9, 1951.
Candy. Fred W. Amend Co. 556,605, Mar. 25; Serial No. 596,966, published Jan. 1, 1952.
Candy. Euclid Candy Company of California, Inc. 556,582, Mar. 25; Serial No. 592,020, published Jan. 8, 1952.
Candy. S. S. Kresge Company. 556,623, Mar. 25; Serial No. 600,778, published Jan. 8, 1952.
Candy. Loft Incorporated. 114,368, Dec. 12, 1916. Republished Mar. 25.
Candy. Norris Inc. 556,674, Mar. 25; Serial No. 606,233, published Dec. 11, 1951.
Candy. Stephen F. Whitman & Son, Inc. 556,759, Mar. 25; Serial No. 614,799, published Dec. 18, 1951.
Candy, Chocolate. Lindt & Sprungli, Inc. 556,669, Mar. 25; Serial No. 605,751, published Dec. 11, 1951.
Canned, bottled and packaged products. Minneapolis Allied Grocers, Inc. 556,544, Mar. 25; Serial No. 581,074, published June 13, 1950.
Canned clams and canned abalone. Walun Trading Company. 556,684, Mar. 25; Serial No. 607,833, published Dec. 11, 1951.
Canned dog food. Calo Dog Food Company, Inc. 556,721, Mar. 25; Serial No. 611,590, published Jan. 1, 1952.
Canned dog food. Ready Foods Company, Inc. 389,548, Aug. 12, 1941. Republished Mar. 25.
Canned fish and canned shellfish. Westgate-Sun Harbor Company. 556,695, Mar. 25; Serial No. 609,153, published Jan. 1, 1952.
Canned fruits. Pacific Coast Canners, Inc. 236,685, Dec. 20, 1927. Republished Mar. 25.
Canned fruits; canned vegetables. G. W. Hume Company. 234,118, Oct. 18, 1927. Republished Mar. 25.
Canned fruits, canned vegetables. G. W. Hume Company. 206,167, Nov. 24, 1925. Republished Mar. 25.
Canned ham. Bjarne Eckhoff's Konservesfabrik A/S. 556,657, Mar. 25; Serial No. 604,353, published Jan. 1, 1952.
Canned orange juice. R. B. Wurgaft. 556,642, Mar. 25; Serial No. 602,590, published Jan. 1, 1952.
Canned salad and cooking oil. Pastene & Co., Inc. 556,499, Mar. 25; Serial No. 554,403, published Dec. 4, 1951.
Canned sardines. Bergen Preserving Company A/S. 556,502, Mar. 25; Serial No. 555,591, published Dec. 4, 1951.
Canned sardines. F. Verga. 556,542, Mar. 25; Serial No. 580,385, published Jan. 8, 1952.
Cereal breakfast foods. Kellogg Company. 556,485, Mar. 25; Serial No. 536,400, published Dec. 25, 1951.
Cheese. L. J. Tupper. 556,742, Mar. 25; Serial No. 613,617, published Jan. 8, 1952.
Cheese flavored corn meal product, Deep fried. The Mann Company of Washington. 556,583, Mar. 25; Serial No. 592,274, published Jan. 8, 1952.
Cheese whey, Dried. H. K. Clofine. 556,591, Mar. 25; Serial No. 594,197, published Jan. 8, 1952.
Chicken, Cooked. H. Josephart. 556,567, Mar. 25; Serial No. 589,789, published Jan. 1, 1952.
Coffee. Martin L. Hall Company. 556,487, Mar. 25; Serial No. 537,177, published Dec. 4, 1951.
Coffee concentrate. Atomised Food Products Limited. 556,498, Mar. 25; Serial No. 554,290, published Nov. 1, 1949.
Concentrate for livestock and poultry feed. Central Soya Company, Inc. 556,541, Mar. 25; Serial No. 580,048, published Jan. 1, 1952.
Cooked and emulsified product of cocoa, sugar and flavorings for flavoring ice cream. H. B. Hunter Company, Inc. 556,537, Mar. 25; Serial No. 574,269, published Jan. 8, 1952.
Cookies. Johnson Educator Food Company. 291,175, renewed Feb. 2, 1952. O. G. Mar. 25.
Cookies. Zion Industries, Inc. 556,718, Mar. 25; Serial No. 611,326, published Dec. 4, 1951.
Edible oils, tomato paste and canned tuna. Tama Trading Company, Inc. 556,513, Mar. 25; Serial No. 564,359, published Nov. 20, 1951.
Eggs, Fresh. American Stores Company. 556,637, Mar. 25; Serial No. 602,015, published Jan. 8, 1952.
Emulsifier for use in the manufacture of dough products. Research Products Company. 556,763, Mar. 25; Serial No. 615,192, published Jan. 1, 1952.
Feed, Poultry. F. E. Booth Company, Inc. 287,062, renewed Sept. 15, 1951. O. G. Mar. 25.
Feeds for poultry, Formula, and cornmeal for human consumption. Schultz, Banjan & Co. 556,492, Mar. 25; Serial No. 546,060, published Dec. 25, 1951.
Fish, Frozen (quick-deep frozen), and canned fish. Les Frigorifères du Littoral. 556,579, Mar. 25; Serial No. 591,742, published Dec. 25, 1951.
Fish oils. British Cod Liver Oils (Hull & Grimsby) Limited. 556,538, Mar. 25; Serial No. 575,818, published Jan. 1, 1952.
Flavoring products. S. B. Penick & Company. 556,568, Mar. 25; Serial No. 590,102, published Jan. 1, 1952.
Flavors and chemical adjuvants. Monsanto Chemical Company. 556,500, Mar. 25; Serial No. 554,910, published Dec. 25, 1951.
Flour, Wheat. The Abilene Flour Mills Company. 556,508–10, Mar. 25; Serial Nos. 563,091–3, published Dec. 18, 1951.
Flour, Wheat. Atlanta Milling Company. 556,523, Mar. 25; Serial No. 569,424, published Jan. 1, 1952.
Flour, Wheat. The Loudonville Milling Company. 556,482, Mar. 25; Serial No. 532,732, published Dec. 4, 1951.
Food, Animal. Blatchford Calf Meal Company. 556,497, Mar. 25; Serial No. 553,666, published Dec. 4, 1951.
Food flavoring extracts. Chr. Hansen's Laboratory, Inc. 293,848, renewed May 10, 1952. O. G. Mar. 25.
Food preparation. The Kosto Co. 556,525, Mar. 25; Serial No. 570,562, published Jan. 8, 1952.
Food sauces. P. Di Pietro. 556,753, Mar. 25; Serial No. 614,043, published Jan. 8, 1952.
Foods, Poultry, pigeon feed, livestock foods, etc. John W. Eshelman & Sons. 556,505, Mar. 25; Serial No. 558,024, published Jan. 8, 1952.
Frozen confections. Joe Lowe Corporation. 556,534, Mar. 25; Serial No. 573,429, published Jan. 8, 1952.
Fruit preserves, bakers' supplies, canned fruits, etc. L. Ender. 556,517, Mar. 25; Serial No. 565,694, published Jan. 1 1952.
Fruits, Fresh deciduous, and fresh vegetables. G. Woo. 556,507, Mar. 25; Serial No. 561,279, published Jan. 1, 1952.
Ice cream, Bulk, and ice cream novelties. Sunnydale Ice Cream Co. Inc. 556,522, Mar. 25; Serial No. 568,007, published Jan. 8, 1952.
Icing. C. Michaelis. 556,658, Mar. 25; Serial No. 604,377, published Dec. 4, 1951.
Macaroni, spaghetti, and egg noodles. The De Martini Macaroni Co., Inc. 556,699, Mar. 25; Serial No. 609,539, published Jan. 1, 1952.
Meat and meat products. Armour and Company. 556,680, Mar. 25; Serial No. 607,211, published Dec. 11, 1951.
Meats. Merkel, Inc. 556,566, Mar. 25; Serial No. 589,735, published Jan. 8, 1952.
Milk, Distilled. L. W. Chumlea. 556,590, Mar. 25; Serial No. 594,102, published Dec. 11, 1951.
Milk, Fluid, creamed cottage cheese, fresh eggs, etc. Dellwood Dairy Co., Inc. 556,504, Mar. 25; Serial No. 557,509, published Dec. 18, 1951.
Milk, Powdered. Laurentide Dairy Products Limited. 556,575, Mar. 25; Serial No. 591,092, published Jan. 1, 1952.
Mix of corn meal, wheat flour and other ingredients for corn bread, corn sticks, muffins, etc. Little Crow Milling Company, Inc. 556,587, Mar. 25; Serial No. 593,805, published Jan. 8, 1952.
Mixing ingredient to mixed in livestock feed. C. M. Bryant. 556,696, Mar. 25; Serial No. 609,164, published Dec. 25, 1951.

Noodles. Golden Age Corporation. 291,192, renewed Feb. 2, 1952. O. G. Mar. 25.
Oleomargarin. J. F. Jelke Company. 86,411, re-renewed May 7, 1952. O. G. Mar. 25.
Olive oil and fresh grapes. M. Bambacigno. 556,754, Mar. 25; Serial No 614,128, published Dec. 11, 1951.
Olive oil, Sterilized. Earnshaw Knitting Company. 292,580, renewed Mar. 15, 1952. O. G. Mar. 25.
Olives. Safie Brothers. 556,769, Mar. 25; Serial No. 615,726, published Jan. 8, 1952.
Orange juice, Frozen. Dairy Service Corporation. 556,617, Mar. 25; Serial No. 599,557, published Dec. 4, 1951.
Oranges, Fresh. Pickfair Associates. 556,766, Mar. 25; Serial No. 615,286, published Dec. 25, 1951.
Peanuts, Raw unshelled. The Suffolk Peanut Company. 556,668, Mar. 25; Serial No. 605,380, published Jan. 8, 1952.
Pickles. C. C. Lang & Son, Inc 556,573, Mar. 25; Serial No. 591,038, published Dec. 4, 1951.
Pies. The Pam Company. 556,627, Mar. 25; Serial No. 600,907, published Jan. 1, 1952.
Popped corn. The Marjack Company. 556,599, Mar. 25; Serial No. 596,107, published Jan. 1, 1952.
Popping corn, Raw. Chunk-E-Nut Products Company, Inc. 556,543, Mar. 25; Serial No. 580,770, published Dec. 25, 1951.
Potatoes. Leigh C. Haines & Sons. 556,626, Mar. 25; Serial No. 600,887, published Jan. 1, 1952.
Potatoes. W. E. McGillvray. 556,656, Mar. 25; Serial No. 604,209, published July 17, 1951.
Prune juice and shredded coconut. W. F. Straub & Company. 556,553, Mar. 25; Serial No. 584,088, published Jan. 1, 1952.
Raisins. Safeway Stores, Incorporated. 556,655, Mar. 25; Serial No. 603,963, published Jan. 1, 1952.
Rice, Packages of. Liberty Rice Mill, Inc. 556,564, Mar. 25; Serial No. 589,456, published Dec. 4, 1951.
Salad dressing, tomato ketchup, chili sauce, etc. Hirsch Bros. & Co. Inc. 556,632, Mar. 25; Serial No. 601,674, published Jan. 1, 1952.
Sea foods, Preserved, and anchovies and crackers. Vaca Foods, Inc. 556,529, Mar. 25; Serial No. 571,304, published Jan. 1, 1952.
Sea foods, Preserved, and anchovies and crackers. Vaca Foods, Inc. 556,530, Mar. 25; Serial No. 571,305, published Jan. 8, 1952.
Seasoning agent. Sterwin Chemicals Inc. 556,730, Mar. 25; Serial No. 612,630, published Dec. 25, 1951.
Shelled peanuts. Seabrook Associates. 556,595, Mar. 25; Serial No. 595,684, published Jan. 1 1952.
Topping to be applied to ice cream. F & F Laboratories, Inc. 556,731, Mar. 25; Serial No. 612,685, published Dec. 25, 1951.
Vanilla concentrates, emulsifiers, and stabilizers, and powdered mixtures. R. G. Moench & Co., Inc. 556,755, Mar. 25; Serial No. 614,361, published Dec. 18, 1951.
Vanilla flavor, Imitation. Seeman Brothers, Inc. 556,484, Mar. 25; Serial No. 533,400, published Dec. 4, 1951.
Vegetables, Fresh. Harden Farms, Inc. 556,743–4, Mar. 25; Serial Nos. 613,637–8, published Dec. 18, 1951.
Water ices, and ice cream in bulk and in various frozen shapes and forms. Tip Top Ice Cream Company (Wellington) Limited. 556,550, Mar. 25; Serial No. 583,058, published Jan. 8, 1952.
Watermelon confection, Frozen. H. A. Priddy. 556,715, Mar. 25; Serial No. 611,195, published Jan. 1, 1952.
Yeast food. Hachmeister-Inc. 556,613, Mar. 25; Serial No. 598,469, published Jan. 1, 1952.

CLASS 47

Wines and champagnes. Petri Wine Company. 556,683, Mar. 25; Serial No. 607,827, published Nov. 13, 1951.

CLASS 48

Malt beverages. Hampden Brewing Company. 287,287, renewed Sept. 15, 1951. O. G. Mar. 25.

CLASS 49

Whiskey. "21" Brands Distillers Corporation. 556,576, Mar. 25; Serial No. 591,446, published Nov. 13, 1951.

CLASS 50

Anti skid plates. Northern Metal Products Company. 556,697, Mar. 25; Serial No. 609,411, published Nov. 27, 1951.
Ladders, Step, single ladders, extension ladders, etc. Woodenware Products Corporation. 556,798, Mar. 25; Serial No. 594,008.
Lithographic plates. A. B. Dick Company. 556,687, Mar. 25; Serial No. 608,411, published Nov. 27, 1951.
Refrigerated drinking straw and stirrer, Combination. Donbert Co., Inc. 556,622, Mar. 25; Serial No. 600,470, published Nov. 27, 1951.

CLASS 51

Cosmetics. B. Kronish & Bro. Inc. 294,215, renewed May 24, 1952. O. G. Mar. 25.
Dental powder. Corega Chemical Company. 196,843, Mar. 31, 1925. Republished Mar. 25.
Dental powder. Corega Chemical Company. 200,438, June 30, 1925. Republished Mar. 25.
Dental powder. O. Wilson. 96,214, Apr. 7, 1914. Republished Mar. 25.
Dentifrices, antiseptics, and preparations for the treatment of constipation. The Pepsodent Co. 293,898, renewed May 10, 1952. O. G. Mar. 25.
Deodorant spray and non-perspirant. The Pharma-Craft Corporation. 556,546, Mar. 25; Serial No. 582,054, published June 27, 1950.
Hair-restorers and other applications for the hair and cosmetics. M. T. Goldman. 38,166, re-renewed Apr. 22, 1952. O. G. Mar. 25.
Hair tonics, perspiration lotion, toilet water, etc. J. L. Sinykin. 294,287, renewed May 24, 1952. O. G. Mar. 25.
Lipstick and nail lacquer. Chen Yu, Inc. 556,561, Mar. 25; Serial No. 589,147, published Dec. 18, 1951.
Mineral oils, cod liver oil, mouth wash antiseptic, etc. Halsey Drug Company Inc. 364,375, Jan. 31, 1939. Republished Mar. 25.
Perfumes and toilet water. Lanvin Parfums, Inc. 556,672, Mar. 25; Serial No. 606,020, published Dec. 18, 1951.
Sterilized baby powder. Earnshaw Knitting Company. 292,488, renewed Mar. 15, 1952. O. G. Mar. 25.

CLASS 52

Chemical products for use as auxiliary agents in the textile industry. Society of Chemical Industry in Basle. 290,076, renewed Dec. 22, 1951. O. G. Mar. 25.
Chemicals used for the prevention of rust and corrosion of metals. Feedwaters, Inc. 293,827, renewed May 10, 1952. O. G. Mar. 25.
Cleaner, Paint and woodwork, a floor cleaner, cleaner and deodorizer for toilet bowls, etc. Modern Methods, Incorporated. 556,584, Mar. 25; Serial No. 592,574, published Jan. 1, 1952.
Cleanser, Liquid chemical. The Kleenzit Corporation. 556,577, Mar. 25; Serial No. 591,488, published Jan. 1, 1952.
Mineral oils, cod liver oil, mouth wash antiseptic, etc. Halsey Drug Company Inc. 364,375, Jan. 31, 1939. Republished Mar. 25.
Preparations for treating and conditioning water. Feedwaters, Inc. 291,463, renewed Feb. 9, 1952. O. G. Mar. 25.
Preparations used for the prevention of rust and corrosion of metals. Feedwaters, Inc. 292,258, renewed Mar. 8, 1952. O. G. Mar. 25.
Shampoo, Hair. McRay's Company. 556,790, Mar 25; Serial No. 585,045.
Soap. Kirkman & Son, Inc. 292,101, renewed Mar. 1, 1952. O. G. Mar. 25.
Soap and soap powder. Daggett & Ramsdell, Inc. 556,675, Mar. 25; Serial No. 606,398, published Jan. 1, 1952.
Soap, Castile. Earnshaw Knitting Company. 292,060, renewed Mar. 1, 1952. O. G. Mar. 25.
Soap concentrate. Fischer Industries, Inc. 556,783, Mar. 25; Serial No. 502,605.
Solvents. O. B. Albritton. 556,532–3, Mar. 25; Serial Nos. 573,182–3, published Aug. 14, 1951.

CLASS 100

Counseling service. S. F. Evelyn. 556,776, Mar. 25; Serial No. 563,455, published Jan. 1, 1952.

CLASS 102

Making loans and arranging for loans. Ward Lumber Company. 556,779, Mar. 25; Serial No. 594,821, published Jan. 1, 1952.

CLASS 106

Processing photographic film. Fo-Jo Studio. 556,778, Mar. 25; Serial No. 594,708, published Jan. 1, 1952.

CLASS 107

Entertainment service. H. Brown. 556,780, Mar. 25; Serial No. 596,976, published Jan. 1, 1952.
Entertainment service. Capitol Amusements, Inc. 556,781, Mar. 25; Serial No. 611,601, published Jan. 1, 1952.
Entertainment service. J. Strausberg. 556,777, Mar. 25; Serial No. 593,023, published Jan. 1, 1952.

LIST OF PLANT PATENTEES

Ponteprino, Meyer E., Anaheim, Calif. Avocado tree. 1,080, Mar. 25.

LIST OF DESIGN PATENTEES

Adams, Dolores, Nashville, Tenn. Greeting card. 166,236, Mar. 25.

Aladdin Industries, Incorporated, assignee: *See*— Bramming, Carl.

Allen, Grosvenor N., Oneida, M. P. Fleming, Fulton, and L. E. Ressegger, assignors to Oneida Ltd., Oneida, N. Y. Spoon or similar article. 166,237, Mar. 25.

Bailey Meter Company, assignee: *See*— Dickey, Paul S., and Wood.

Bedinger, Frank M., assignor to F. H. Noble & Company, Chicago, Ill. Jewelry box. 166,238, Mar. 25.

Berman, Hymie D., Minneapolis, Minn. Toy clock. 166,239, Mar. 25.

Blair Manufacturing Company, assignee: *See*— McMaster, James K.

Bodorff, John H., assignor to Rockford Textile Mills, Inc., Rockford, Ill. Slipper sock. 166,240, Mar. 25.

Bramming, Carl, Nashville, Tenn., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Reflecting mantle lantern. 166,241, Mar. 25.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase. 166,242, Mar. 25.

Creston Full Fashioned Hosiery Mills, Inc., assignee: *See*— Nordman, Richard W.

Crist, James J., Rockford, Ill. Set of game pieces. 166,243, Mar. 25.

Davidhazy, Frank C., Grand Rapids, Mich. Clock. 166,244, Mar. 25.

Dickey, Paul S., East Cleveland, and K. A. Wood, South Euclid, Ohio, assignors to Bailey Meter Company. Indicating instrument face. 166,245, Mar. 25.

Doerfler, Robert L., assignor to The International Silver Company, Meriden, Conn. Spoon or other article of flatware. 166,246, Mar. 25.

Dormeyer Corporation, assignee: *See*— Morgan, Jack.

Dreyfuss, Henry, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn. Clockcase or similar article. 166,247, Mar. 25.

Dreyfuss, Henry, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn. Clockcase or similar article. 166,247, Mar. 25.

Dreyfuss, Henry, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn. Clock base or similar article. 166,249, Mar. 25.

Eagle Pencil Company, assignee: *See*— Fusco, Faust A.

Ferris, Elsie G., Alpena, Mich. Bottle. 166,250, Mar. 25.

Fleming, Mary P.: *See*— Allen, Grosvenor N., Fleming, and Ressegger.

Forman, Ben, Brooklyn, N. Y. Butter dish. 166,251, Mar. 25.

Fusco, Faust A., Kew Gardens Hills, N. Y., assignor to Eagle Pencil Company. Eraser. 166,252, Mar. 25.

Gazda, Antoine, Providence, R. I. Pencil. 166,253, Mar. 25.

Gazda, Antoine, Providence, R. I. Pencil. 166,254, Mar. 25.

Gazda, Antoine, Providence, R. I. Pencil. 166,255, Mar. 25.

Grimwades Limited, assignee: *See*— Plant, James.

Guttman, Edward, New York, N. Y. Knitted dress. 166,256, Mar. 25.

Haeger Potteries, Inc., The, assignee: *See*— Conover, Helen.

Ingraham, E., Company, The, assignee: *See*— Dreyfuss, Henry.

International Silver Company, The, assignee: *See*— Doerfler, Robert L.

Jones, Arthur K., Rumford, R. I. Goggle front. 166,257, Mar. 25.

Knee, Simon, Newark, N. J. Wallet or similar article. 166,258, Mar. 25.

Knee, Simon, Newark, N. J. Wallet or similar article. 166,259, Mar. 25.

Knee, Simon, Newark, N. J. Wallet or similar article. 166,260, Mar. 25.

Knee, Simon, Newark, N. J. Wallet or similar article. 166,261, Mar. 25.

Knee, Simon, Newark, N. J. Wallet or similar article. 166,262, Mar. 25.

Kurschner, Lloyd F., Minneapolis, Minn. Transparent cover for record players. 166,263, Mar. 25.

Langer, William M., Berlin, N. J. Stocking. 166,264, Mar. 25.

Levy, Seymour, Tarrytown, N. Y. Display shelf. 166,265, Mar. 25.

Lockwood-Butler Company, The, assignee: *See*— Nordman, Richard W.

Mainini, Rudolph R., Jr., West Upton, assignor to Miscoe Spring Water Company, Mendon, Mass. Neon advertising sign. 166,266, Mar. 25.

McMaster, James K., assignor to Blair Manufacturing Company, Springfield, Mass. Power lawn mower base. 166,267, Mar. 25.

Miscoe Spring Water Company, assignee: *See*— Mainini, Rudolph R., Jr.

Morgan, Jack, assignor to Dormeyer Corporation, Chicago, Ill. Combined liquifier jar and beater element. 166,268, Mar. 25.

Mueller, Walter, Clifton, N. J., assignor of one-half to R. E. Schletter, Philadelphia, Pa. Lady's stocking. 166,269, Mar. 25.

Mueller, Walter, Clifton, N. J., assignor of one-half to R. E. Schletter, Philadelphia, Pa. Lady's stocking. 166,270, Mar. 25.

Noble, F. H., & Company, assignee: *See*— Bedinger, Frank M.

Nordman, Richard W., assignor of fifty per cent to Creston Full Fashioned Hosiery Mills, Inc., and fifty per cent to The Lockwood-Butler Company, Charlotte, N. C. Lady's stocking. 166,271, Mar. 25.

Oneida Ltd., assignee: *See*— Allen, Grosvenor N., Fleming, and Ressegger.

Perlongo, Dominic R., Chicago, Ill. Ash tray. 166,272, Mar. 25.

Plant, James, Eccleshall, assignor to Grimwades Limited, Stoke-on-Trent, England. Transfer material or the like. 166,273, Mar. 25.

Plant, James, Eccleshall, assignor to Grimwades Limited, Stoke-on-Trent, England. Transfer material or the like. 166,274, Mar. 25.

Price, Duane W., Los Angeles, Calif. Amusement game apparatus. 166,275, Mar. 25.

Ressegger, Lloyd E.: *See*— Allen, Grosvenor N., Fleming, and Ressegger.

Rockford Textile Mills, Inc., assignee: *See*— Bodorff, John H.

Salvador, Lino, East Hempstead, N. Y. Combined flower stand and flower pot. 166,276, Mar. 25.

Schletter, Richard E., assignee: *See*— Mueller, Walter.

Sefiin, Arthur H., Los Angeles, Calif. Dish or similar article. 166,277, Mar. 25.

Silver, Myer S., Brookline, Mass. Slipper. 166,278, Mar. 25.

Staff, Aaron S., New York, N. Y. Lace. 166,279, Mar. 25.

Stillman, Isadore, Philadelphia, Pa. Stocking. 166,280, Mar. 25.

Stillman, Isadore, Philadelphia, Pa. Stocking. 166,281, Mar. 25.

Tabata, Shizuko, San Mateo, Calif. Purse. 166,282, Mar. 25.

Vischer, Alfred, Jr., Park Ridge, Ill. Autoclave. 166,283, Mar. 25.

White, Constance R., Beverly Hills, Calif. Egg cup or similar article. 166,289, Mar. 25.

Weilburg, Sidney, New York, N. Y. Aquarium cleaner. 166,284, Mar. 25.

Weinberg, Sol, New York, N. Y. Textile fabric. 166,285, Mar. 25.

Weissman, Harry, New Hyde Park, N. Y. Spectacle front. 166,286, Mar. 25.

Weissman, Harry, New Hyde Park, N. Y. Spectacle front. 166,287, Mar. 25.

Weissman, Harry, New Hyde Park, N. Y. Spectacle front. 166,288, Mar. 25.

Wood, Kenneth A.: *See*— Dickey, Paul S., and Wood.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abell, Liese L., New York, N. Y., W. F. Bruce, Havertown, and J. Seifter, Willow Grove, assignors to Wyeth Incorporated, Philadelphia, Pa. Tertiary butyl amines and their preparation. 2,590,079, Mar. 25.

Adair, Adolphus G., Fort Worth, Tex. Wheel adaptable to different hubs. 2,590,363, Mar. 25.

Adams, Paul R., Cranford, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y. Cathode-ray tube screen filter. 2,590,080, Mar. 25.

Adams, William J., Jr., Grafton, and D. E. Fischer, Cedar Grove, Wis., assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Snowplow construction. 2,590,143, Mar. 25.

Adas, Thomas L., Chicago, Ill. Bobby pin reconditioning device. 2,590,364, Mar. 25.

Adler, Lee E., Dallas, Tex. Control system for carrier telecommunication circuits. 2,590,746, Mar. 25.

Aktiebolaget Separator, assignee: *See*—
Svensjö, Nils E.

Aktiengesellschaft Fuer Technische Studien, assignee: *See*—
Keller, Curt.

Alarcon, Alfonso G.: *See*—
Polo, Dagoberto M., and Alarcon.

Albrecht, Otto, Munchenstein, assignor to Ciba Limited, Basel, Switzerland. Amide derivatives and making same. 2,590,073, Mar. 25.

Albright, Edward J., Chicago, Ill. Conveyer having pivotal pan. 2,590,291, Mar. 25.

Allied Chemical & Dye Corporation, assignee: *See*—
Jordan, Thomas E., and Cline.
Otto, Julian A.

Allied Laboratories, Inc., assignee: *See*—
Faith, Herman E.

Almgren, August E., Hillside, and J. P. Jakob, Roselle, N. J., assignors to American Can Company, New York, N. Y. Bag sealing machine. 2,590,081, Mar. 25.

Almgren, August E., Hillside, J. P. Jakob, Roselle, and F. W. Goodrich, Newark, N. J., assignors to American Can Company, New York, N. Y. Bag sealing machine. 2,590,082, Mar. 25.

Alton Box Board Company, assignee: *See*—
Breyfogle, Roy H., and Hollis.
Hollis, Robert F.

Alward, Kenneth J., South Bend, Ind. Hydraulic actuator. 2,590,144, Mar. 25.

American Can Company, assignee: *See*—
Almgren, August E., and Jakob.
Almgren, August E., Jakob, and Goodrich.

American Cyanamid Company, assignee: *See*—
Gabel, Joseph W., and Loukomsky.
Long, Robert S., and Tsang.
Mackay, Johnston S.
Scalera, Mario, and Stewart.
Schmutsler, Alfred F.
Stamm, Robert F., and Mariner.

American Machine and Foundry Company, assignee: *See*—
Milliman, Jacob, and Stabler.
Patterson, Morehead.

American Steel Foundries, assignee: *See*—
Light, David M.

Anderson, Clare, Kinnelon, N. J. Oscillatory timing mechanism. 2,590,365, Mar. 25.

Anderson, Leslie J., Moorestown, N. J., assignor to Radio Corporation of America. Shielded magnetic sound-head and tape-guide assembly. 2,590,292, Mar. 25.

Anderson, Orville E.: *See*—
Berberich, Leo J., and Anderson.

Anderson, Roger: *See*—
Wagner, Hugo, and Anderson.

Anderson, Roger, Seattle, Wash. Interscapular patient supporting device for application of an orthopedic brace. 2,590,670, Mar. 25.

Appliance Engineering Co., assignee: *See*—
Beuscher, William B.

Arbit, Harry A.: *See*—
Burtner, Robert R., and Arbit.

Armco Steel Corporation, assignee: *See*—
Bloom, Frederick K.

Armstrong, Adam E., assignor to Armstrong Machine Works, Three Rivers, Mich. Threading attachment for lathes. 2,590,224, Mar. 25.

Armstrong, John L., assignor to Eastern States Petroleum Co., Inc., Houston, Tex. Sealing device for regenerator apparatus. 2,590,293, Mar. 25.

Armstrong Machine Works, assignee: *See*—
Armstrong, Adam E.

Army, United States of America as represented by the Secretary of the, assignee: *See*—
Lippel, Bernard.

Arnold, Ernest A., Monument, Kans. Tractor jack. 2,590,361, Mar. 25.

Aronson, David, Greensburg, assignor to Elliott Company, Jeannette, Pa. Gas purifying method and apparatus. 2,590,145, Mar. 25.

Arvin Industries, Inc., assignee: *See*—
Farr, Edward A., and Theisen.

Atkinson, John F., H. W. Kelley, and J. M. McCutchen, Arlington, Va. Electric power distribution system. 2,590,083, Mar. 25.

Atwater-Strong Company, assignee: *See*—
Strong, Basil P.

Atwood, Wilmerth R., Odessa, Tex. Well conductor perforating gun. 2,590,366, Mar. 25.

Aubert, Fred B., Grosse Pointe, Mich. Scleroscope and clutching mechanism therefor. 2,590,486, Mar. 25.

Austin, Bascum O.: *See*—
Miner, John D., Jr., Austin, and Jessee.

Automatic Electric Laboratories, Inc., assignee: *See*—
Bakker, Pier.

"Automatic" Sprinkler Corporation of America, assignee: *See*—
Rider, Harry N.

Automatic Totalisators Limited, assignee: *See*—
Both, Edward T.

Autoyre Company, Incorporated, The, assignee: *See*—
Bunnell, Earl C.
Sanford, Roy S.

Avco Manufacturing Corporation, assignee: *See*—
Constantine, Arthur R.

Axelstrom, Raymond E., Chicago, Ill. Well rod grab. 2,590,487, Mar. 25.

Babcock & Wilcox Company, The, assignee: *See*—
Harter, Isaac, Isaac, Jr., and Carpenter.
Norton, Charles L., Jr.

Bade, Ernest P., Milwaukee, Wis. Smoking pipe. 2,590,488, Mar. 25.

Bailey, Edward V., Santa Paula, Calif. Mole trap. 2,590,489, Mar. 25.

Bailey, John L.: *See*—
Earland, Christopher, Bailey, and Carter.

Baker, Arthur W., Webster Groves, assignor to Illinois Powder Manufacturing Company, St. Louis, Mo. Explosive cartridge assembly. 2,590,671, Mar. 25.

Bakker, Pier, assignor to Automatic Electric Laboratories, Inc. Chicago, Ill. Carrier system having variable power level for supervisory signaling. 2,590,672, Mar. 25.

Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Jones, Edgar J.

Balshi, Andrew J., Catawissa, Pa. Sterilizer for feed bags and other articles. 2,590,367, Mar. 25.

Bard, Francis N., assignee: *See*—
Kuhn, Henry S.

Barrows, Donald S., Rochester, assignor to The Symington-Gould Corporation, Depew, N. Y. Railway truck. 2,590,360, Mar. 25.

Barry, Arthur J., assignor to The Dow Chemical Company, Midland, Mich. Siloxanes having hydrogen atom directly attached to silicon atoms. 2,590,812, Mar. 25.

Barsky, George, assignor to Freeport Sulphur Company, New York, N. Y. Production of hydrogen cyanide. 2,590,146, Mar. 25.

Bashore, Quinter E., Covina, Calif. Box handling mechanism. 2,590,225, Mar. 25.

Bassett, Clifford S., executor: *See*—
Moyer, Charles L.

Bates, Myron H.: *See*—
Unger, Magnus, and Bates.

Baumann, Arnold W., Chicago, Ill. Condensate separator. 2,590,226, Mar. 25.

Bausch & Lomb Optical Company, assignee: *See*—
Gay, Fred G., Jr., and McCulloch.

Bayer, Otto: *See*—
Rickert, Hans F., Stein, and Bayer.

Beck, Robert F., Paterson, assignor to Bendix Aviation Corporation, Teterboro, N. J. Valve. 2,590,368, Mar. 25.

Bedford, Alda V.: *See*—
Sziklai, George C., and Bedford.

Beeler, Francis S., Hamilton, Ohio. Bait casting reel. 2,590,369, Mar. 25.

Bell, Ralph E., assignor to Kirsch Company, Sturgis, Mich. Traverse curtain support and pulley housing. 2,590,370, Mar. 25.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bredehoft, Harold A., and Richardson.
Brown, John T. L.
Coxhead, Harry B.
Dehn, Joseph W., and Holden.
Holden, William H. T.
Joel, Amos E., Jr.
McAlpine, Roderick K.
Mead, Edward D., and Mesch.
Taylor, Raymond L.

Bellamy, John I., Brookfield, assignor to Sloan Valve Company, Chicago, Ill. Flush valve arrangement and installation. 2,590,147, Mar. 25.

Bendix Aviation Corporation, assignee: *See*—
Beck, Robert F.
Gordon, James F.
Holmes, Bradford B., and Pauly.
Noxon, Paul A.
Volk, Emil A., Jr.

Bends, Waldemar I., Weston, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,590,491, Mar. 25.

Benedict, Bruce C., Bartlesville, Okla., assignor to Phillips Petroleum Company. Refining lubricating oil. 2,590,490, Mar. 25.

Bennett, Frank P., Riverside, and A. E. Webb, assignors to Three Dimension Company, Chicago, Ill. Slide changing device for stereopticon projectors. 2,590,492, Mar. 25.

Bennett, John D., Beaumont, Tex., assignor to International Derrick & Equipment Company, Columbus, Ohio. Hydraulic adapter. 2,590,362, Mar. 25.

Berberich, Leo J., and O. E. Anderson, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Flexible siliceous sheet material, making, and composition therefor. 2,590,493, Mar. 25.

Berg, Clyde H. O.: *See*—
Imhoff, Donald H., and Berg.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Level control. 2,590,148, Mar. 25.

Bergstein, Robert M., Cincinnati, Ohio. Knockdown box. 2,590,371, Mar. 25.

Bernard, Arthur A., Chicago, Ill., assignor to National Cylinder Gas Company. Shielded arc welding method and gas confining means. 2,590,084, Mar. 25.

Beuscher, William B., assignor, by mesne assignments, to Appliance Engineering Co., Kansas City, Mo. Wringer assembly having interconnected roll pressure and drive. 2,590,494, Mar. 25.

Bezanson, Charles E., Malden, Mass. Vacuum cleaner for barber chairs. 2,590,673, Mar. 25.

Bienaimé, André, Pierrefitte, France. Float-operated draining device. 2,590,495, Mar. 25.

Billeter, Jean-René: *See*—
Miescher, Karl, and Billeter.

Bingman, Frederick P., Birmingham, Mich., assignor to The R. C. Mahon Company. Building construction. 2,590,227, Mar. 25.

Birdseye, Clarence, assignor to E. G. Birdseye, Gloucester, Mass. Method and apparatus for removing skin from fleshy products. 2,590,747, Mar. 25.

Birdseye, Eleanor G., assignee: *See*—
Birdseye, Clarence.

Blanchet, Ovila J., New Bedford, Mass. Electric circuit for controlling traffic signals. 2,590,748, Mar. 25.

Bley, Rudolph S., Milligan College, Tenn., assignor to North American Rayon Corporation, New York, N. Y. Twist barrier for double twist spindles. 2,590,372, Mar. 25.

Bloom, Fredrick K., Baltimore, Md., assignor to Armco Steel Corporation. Stainless steel process and product. 2,590,074, Mar. 25.

Blum, Oscar A., Bayonne, assignor to The M. W. Kellogg Company, Jersey City, N. J. Dechlorination of a halocarbon containing chlorine. 2,590,433, Mar. 25.

Bockmeyer, Eldon, Philadelphia, Pa. Refrigerated case with forced circulation of air. 2,590,496, Mar. 25.

Bodey, Charles E., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Valve. 2,590,674, Mar. 25.

Boeing Airplane Company, assignee: *See*—
Robertson, John A., and Rock.

Bolsey, Jacques, New York, N. Y. Combined camera and projector arrangement. 2,590,497, Mar. 25.

Bomberger, Harry H., Hershey, Pa. Check wire tension measuring apparatus. 2,590,498, Mar. 25.

Borg-Warner Corporation, assignee: *See*—
Swift, Clifford L.

Both, Edward T., Cremorne, assignor to Automatic Totalisators Limited, Meadowbank, near Sydney, New South Wales, Australia. Telegraphic facsimile recorder. 2,590,294, Mar. 25.

Bottorff, Albert H., St. Joseph, Mo. Gear power take-off drive for hammer mills. 2,590,675, Mar. 25.

Boyd-Welsh, Inc., assignee: *See*—
Jonas, Gilbert F.

Bradley, Neil C. H., Milwaukee, Wis. Cabineted toy railroad. 2,590,676, Mar. 25.

Bradley, William E., Springfield Township, Montgomery County, assignor to Philco Corporation, Philadelphia, Pa. Modulation system and method. 2,590,373, Mar. 25.

Braswell, James W., Jr., Wilmington, N. C. Ice-making machine. 2,590,499, Mar. 25.

Bredehoft, Harold A., Millington, and M. S. Richardson, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone ringer. 2,590,500. Mar. 25.

Breisford, Harlin A., Haddon Heights, N. J., assignor to Radio Corporation of America. Shaft coupling. 2,590,287, Mar. 25.

Brewer-Titchener Corporation, The, assignee: *See*—
Card, Charles S.

Breyfogle, Roy H., and R. F. Hollis, assignors to Alton Box Board Company, Alton, Ill. Cylinder type paper machine. 2,590,288, Mar. 25.

British Insulated Callender's Cables Limited, assignee: *See*—
Dixon, Henry J.

Britton, Edgar C., and J. D. Head, assignors to The Dow Chemical Company, Midlands, Mich. Dehalogenation of aromatic compounds. 2,590,813, Mar. 25.

Brodes, William S., New Haven, Conn. Educational toy. 2,590,501, Mar. 25.

Brostedt, Clinton B.: *See*—
Nord, Simon R., Jr., and Brostedt.

Brown, Cicero C., Houston, Tex. Slip expander assembly for well tools. 2,590,502, Mar. 25.

Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Inhaler with closure. 2,590,832, Mar. 25.

Brown, Frank K., South Dartmouth, assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass. Slotting the shanks of screw fasteners. 2,590,597, Mar. 25.

Brown, Howard M.: *See*—
Cawley, George and Brown.

Brown, Hugh M., assignor to Clemson Agricultural College of South Carolina, Clemson, S. C. Yarn twister for spinning frames. 2,590,374, Mar. 25.

Brown, John T. L., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Adjusting polar relays. 2,590,228, Mar. 25.

Brownstein, Benjamin, Ellwood City, Pa. Hydraulic pressure control apparatus. 2,590,503, Mar. 25.

Broyhill, Roy F., Dakota City, Nebr. Tractor mounted spray device. 2,590,677, Mar. 25.

Bruce, William F.: *See*—
Abell, Liese L., Bruce, and Seifter.

Brugmann, Frank J., Greeley, Colo. Tool for removing hub caps. 2,590,150, Mar. 25.

Brush Development Company, The, assignee: *See*—
Williams, Alfred L. W.

Buccino, Jerry M. and J. J., Canoga Park, Calif. Fastening device for brake linings. 2,590,749, Mar. 25.

Buccino, Julius J.: *See*—
Buccino, Jerry M. and J. J.

Buckey, Jefferson P., deceased, Easton, Conn.; J. F. McGowan, administrator, assignor to J. T. Kilbride, Stratford, Conn. Vacuum cleaner with sterilizing means. 2,590,152, Mar. 25.

Bump Pump Co., The, assignee: *See*—
Dale, Vernon F., and Reed.

Burns, Bruce, Yucca Valley, Calif. Release means for toggle-actuated wrenches. 2,590,750, Mar. 25.

Burns, Cloyd E., deceased, Fort Pierce, Fla.; M. Burns, executrix. Golf club carrier. 2,590,154, Mar. 25.

Burns, May, executrix: *See*—
Burns, Cloyd E.

Burr, Richard: *See*—
Colin, Jules, Burr, and Gafanesch.

Burtner, Robert R., assignor to G. D. Searle & Co., Skokie, Ill. 1-hydroxy naphthyl alkanoic acids and certain salts thereof. 2,590,086, Mar. 25.

Bryant Chucking Grinder Company, assignee: *See*—
Bryant, William J., Gates, and Ljunggren.
Gates, Hesslar H.

Bryant, William J., Springfield, Vt., H. H. Gates, Charlestown, N. H., and T. H. Ljunggren, assignors to Bryant Chucking Grinder Company, Springfield, Vt. Bore gauge head. 2,590,151, Mar. 25.

Buckeye Aluminum Company, The, assignee: *See*—
Fry, Clifford W.

Bueche-Rossé, Henri, Court, Jura Bernois, Switzerland. Mending needle structure. 2,590,375, Mar. 25.

Bunnell, Earl C., Stratford, assignor to The Autoyre Company, Incorporated, Oakville, Conn. Automatic gun charger. 2,590,153, Mar. 25.

Burdett, Roy, Long Beach, Calif. Spice can holder. 2,590,149, Mar. 25.

Bureau van Tongeren N. V., assignee: *See*—
Van der Kolk, Hendrik.

Burgess Battery Company, assignee: *See*—
Wilke, Milton E.

Burndy Engineering Company, Inc., assignee: *See*—
Matthysse, Irving F., and Dupre.
Skok, Sergius.

Burtner, Robert R., Skokie, and H. A. Arbit, Chicago, assignors to G. D. Searle & Co., Skokie, Ill. Hydroxy xenoyl alkanoic acids and derivatives thereof. 2,590,085, Mar. 25.

Burton, William P., Orange, and E. Solomon, Nutley, assignors to The M. W. Kellogg Company, Jersey City, N. J. Recovery of organic acids. 2,590,087, Mar. 25.

Byram, Frederick C., New Carlisle, and S. S. L. Chang, assignors to Robbins & Myers, Inc., Springfield, Ohio. Flat rotary pump. 2,590,751, Mar. 25.

Caesar, Orville S., Barrington, Ill. Chair having resiliently mounted seat and back. 2,590,504, Mar. 25.

Cahill, John L., New Albany, Ind. Gasoline lantern. 2,590,434, Mar. 25.

Calm, Louis, Jerusalem, Palestine. Photographic roll film. 2,590,678, Mar. 25.

California Research Corporation, assignee: *See*—
Hanson, John E.
Moody, Clark J.

Callahan, Oscar L., West Frankfort, Ill. Safety valve. 2,590,679, Mar. 25.

Cambridge Thermionic Corporation, assignee: *See*—
Hurlbut, Cornelius S., Jr.

Campbell, Calvin C., assignor of one-half to L. E. Chandler, Colorado City, Tex. Minnow transport container. 2,590,376, Mar. 25.

Campbell, Julian A., Long Beach, Calif. Apparatus for liquid level control. 2,590,680, Mar. 25.

Campbell, Julian A., Long Beach, Calif. Gas separator. 2,590,681, Mar. 25.

Cannon, Edward S., Shaker Heights, Ohio. Silent or seminoiseless vibrator. 2,590,155, Mar. 25.

Carbodies Limited, assignee: *See*—
Orr, John H.

Card, Charles S., assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Making socket for electrical hardware and fittings. 2,590,229, Mar. 25.

Cardwell, Paul H., A. W. Coultre, Jr., and H. H. Jones, Tulsa, Okla., assignors to The Dow Chemical Company, Midland, Mich. Deep well treatment. 2,590,814, Mar. 25.

Carlsen, Otto, Monrovia, Calif. Interlock for electrical connectors. 2,590,505, Mar. 25.

Carpenter, Otis R.: *See*—
Harter, Isaac and I, Jr., and Carpenter.

Carpentier, Pascal J., Paris, France. Making cellular thermoplastic materials. 2,590,156, Mar. 25.

Carrier Corporation, assignee: *See*—
Shawhan, Sam F.

Carter Carburetor Corporation, assignee: *See*—
Coffey, Irven E.

Carter, Dick: *See*—
Earland, Christopher, Bailey, and Carter.

Carter, Gerald M., Ocala, Fla. Portable traffic sign. 2,590,506, Mar. 25.

Carter, Ray E.: *See*—
Guier, William, and Carter.

Carver, James L., Birmingham, Ala. Inking roll and ink feed mechanism therefor. 2,590,507, Mar. 25.

Carver, Richard N., and R. J. Lohr, Erie, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y. Toy with automatic door. 2,590,508, Mar. 25.

Casco Products Corporation, assignee: *See*—
Samuels, Abe O.
Youhouse, Joseph.

Castle, Donald H., New Canaan, Conn., assignor to Radio Corporation of America. Cathode-ray tube amplitude indicating apparatus. 2,590,230, Mar. 25.

Cater, Joseph H., Los Angeles, Calif. Carburetor. 2,590,377, Mar. 25.

Caterpillar Tractor Co., assignee: *See*—
Kamp, Carl O.

Cawley, George, Upper Montclair, and H. M. Brown, Wood-Ridge, N. J. Core type winder drive. 2,590,682, Mar. 25.

Celanese Corporation of America, assignee: *See*—
Davis, Walter E.
Hieserman, Clarence E.

Centre National De La Recherche Scientifique, assignee: *See*—
Felici, Noël.

Chaffee, Harold D., Bedford, Ohio. Fishing plug. 2,590,752, Mar. 25.

Chamberlain, Dale W., Oakland, Calif. Razorstrop guard. 2,590,289, Mar. 25.

Chandler, Laurence D., assignee: *See*—
Campbell, Calvin C.

Chang, Sheldon S. L.: *See*—
Byram, Frederick, Cameron, and Chang.

Chang, Sheldon S. L., assignor to Robbins & Myers, Inc., Springfield, Ohio. Flat rotary pump. 2,590,435, Mar. 25.

Chase, Leon A., Denver, Colo. Valve for flexible hose. 2,590,290, Mar. 25.

Chilton, Roland, Glen Rock, N. J. Automatic transmission control. 2,590,231, Mar. 25.

Chilton, Roland, Ridgewood, N. J., assignor to Curtiss-Wright Corporation. Multispeed transmission and automatic transmission control. 2,590,232, Mar. 25.

Christenson, Hans-Eric E.: *See*—
Soper, Guy E., and Christenson.

Chromy, Ben J., assignee: *See*—
Schiavone, Edward L.

Church, Albert E., assignor to Union Manufacturing Company, New Britain, Conn. Power actuated chuck. 2,590,509, Mar. 25.

Ciba Limited, assignee: *See*—
Albrecht, Otto.
Maeder, Arthur.
Moser, Eduard.
Riat, Henri, and Mayer.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Druey, Jean, and Schmidt.
Miescher, Karl, and Billeter.
Miescher, Karl, Ehmann, and Wettstein.
Miescher, Karl, and Marxer.

Clapp, Charles W., Schenectady, N. Y., assignor to General Electric Company. Reactance tube circuit. 2,590,753, Mar. 25.

Clapp, Ralph E., Spokane, Wash. Tunnel lining form. 2,590,683, Mar. 25.

Clark Bros. Co., Inc., assignee: *See*—
Reeder, William H., III.

Clark Controller Company, The, assignee: *See*—
Few, William, Sauter, and Szabo.

Clark Equipment Company, assignee: *See*—
Turner, George L., and Sherriff.

Clark, Perley C., Denver, Colo. Attachment for hair clippers. 2,590,684, Mar. 25.

Clausing, George, assignor to Vulcan Corporation, Portsmouth, Ohio. Turning lathe for shoe lasts. 2,590,378, Mar. 25.

Clauss, Robert W., New York, N. Y. Pinticket manufacturing and attaching machine. 2,590,088, Mar. 25.

Clayton Manufacturing Company, assignee: *See*—
Cline, Edwin L.

Clemson Agricultural College of South Carolina, assignee: *See*—
Brown, Hugh M.

Cleveland Twist Drill Company, The, assignee: *See*—
Githens, Thomas F.

Cline, Edwin L.: *See*—
Jordan, Thomas E., and Cline.

Cline, Edwin L., Pasadena, assignor to Clayton Manufacturing Company, Alhambra, Calif. Deaerating apparatus. 2,590,754, Mar. 25.

Cloud, Raymond T., assignor to North American Geophysical Company, Houston, Tex. Mapping device. 2,590,755, Mar. 25.

Cloud, William S., Wilmette, Ill. Apparatus and method for wrapping articles and severing the wrapped articles from webs. 2,590,379, Mar. 25.

Cocke, Josephine, assignee: *See*—
Pratt, Robert J.

Coff, Leo, New York, N. Y. Prestressed concrete structure. 2,590,685, Mar. 25.

Coffey, Irven E., assignor to Carter Carburetor Corporation, St. Louis, Mo. Valve device. 2,590,686, Mar. 25.

Cohen, Carl and M. L., Waupaca, Wis. Apparatus for making cheese. 2,590,510, Mar. 25.

Cohen, Marvin L.: *See*—
Cohen, Carl and M. L.

Colin, Jules, R. Burr, and A. Gafanesch, Mulhouse, assignors to Mines Domaniales de Potasse d'Alsace, Mulhouse, Haut Rhin, France. Mineral separation. 2,590,756, Mar. 25.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Lacerenza, Joseph A.

Commercial Solvents Corporation, assignee: *See*—
Stengel, Leonard A.

Condra, Elmo L., Long Beach, Calif. Feeler tool for casing protuberances. 2,590,233, Mar. 25.

Constantine, Arthur R., South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y. Clothes drier. 2,590,295, Mar. 25.

Continental Foundry & Machine Company, assignee: *See*—
Meyers, Sidney E.

Continental Supply Company, The, assignee: *See*—
Slonneger, John C.

Cook, Charles A., Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Clutch brake. 2,590,089, Mar. 25.

Coote, Jack H., London, and W. H. Gathercole, Worcester Park, Surrey, assignors to Dufay-Chromex Limited, London, England. Photographic multilayer stripping film. 2,590,296, Mar. 25.

Copenhaver, John W., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Polyethers and preparing the same. 2,590,598, Mar. 25.

Corbett, Frederick W., Burbank, Calif. Doughnut machine. 2,590,157, Mar. 25.

Cornelius, Charles L., Jr. and F. H., Shade Gap, Pa. Cork bonding process. 2,590,757, Mar. 25.

Cornelius, Frank H.: *See*—
Cornelius, Charles L., Jr. and F. H.

Corning Glass Works, assignee: *See*—
Guyer, Edwin M.

Coulter, Albert W., Jr.: *See*—
Cardwell, Paul H., Coulter, and Jones.

Coxhead, Harry B., Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic selection of receiving channels. 2,590,234, Mar. 25.

Coykendall, Horatio F., Redwood City, Calif. Revolving antproof cooler shelf. 2,590,380, Mar. 25.

Crafton, Henry H., Baden, assignor to H. H. Robertson Company, Pittsburgh, Pa. Building structure. 2,590,687, Mar. 25.

Craig, Floyd B., Pitcairn, and R. H. Webb, Turtle Creek, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Ridged wave guide attenuator. 2,590,511, Mar. 25.

Crain, Robert L., assignor to Gray Tool Company, Houston, Tex. Oil well swivel. 2,590,512, Mar. 25.

Crain, Robert L., assignor to Gray Tool Company, Houston, Tex. Well manifold. 2,590,688, Mar. 25.

Crandall Dry Dock Engineers Inc., assignee: *See*—
Crandall, James S.

Crandall, James S., Lexington, assignor to Crandall Dry Dock Engineers Inc., Cambridge, Mass. Side-haul railway dry dock. 2,590,689, Mar. 25.

Cranmer, George H., Philadelphia, Pa., assignor to Electrolux Corporation, New York, N. Y. Vacuum cleaner. 2,590,235, Mar. 25.

Crossley, Royal E., Fayetteville, and H. M. Pattat, North Syracuse, assignors to Crouse-Hinds Company, Syracuse, N. Y. Ventilated light-responsive lamp-changing mechanism for lighting units. 2,590,513, Mar. 25.

Crouse-Hinds Company, assignee: *See*—
Crossley, Royal E., and Pattat.

Crucible Steel Company of America, assignee: *See*—
Lowe, Wallace K.

Currie, Hugh W., Skokie, assignor to Currie Manufacturing Company, Chicago, Ill. Candy cleaning machine. 2,590,381, Mar. 25.

Currie Manufacturing Company, assignee: *See*—
Currie, Hugh W.

Curtis, Alfred A., II, Glendale, Calif. Garment hanging fixture. 2,590,297, Mar. 25.

Curtiss-Wright Corporation, assignee: *See*—
Chilton, Roland.

Cusic, John W.: *See*—
Robinson, Richard A., and Cusic.

Cutler-Hammer, Inc., assignee: *See*—
Evans, Clarence T.

Dahlman, Eben D., Grandy, Minn. Machine for handling potato vines. 2,590,758, Mar. 25.

Dale, Vernon F., and G. Reed, Onalaska, assignors to The Bump Pump Co., La Crosse, Wis. Rotary seal. 2,590,759, Mar. 25.

Danielson, Ludwig P., Evanston, Ill. Stool. 2,590,382, Mar. 25.

D'Artenay, Francis A., Stratford, Calif. Hitch for ganging a plurality of implements in squadron arrangement. 2,590,158, Mar. 25.

Da Veiga, Vinicio, Sao Paulo, Brazil. Resin made from tannin, sulfuric acid, acetone, and potassium cyanide. 2,590,760, Mar. 25.

Davis, Walter E., Cumberland, Md., assignor to Celanese Corporation of America. Fugitive tint for cellulose acetate. 2,590,236, Mar. 25.

Davis, William E., Chicago, Ill. Corner fitting for knockdown structures. 2,590,159, Mar. 25.

Dean, Robert M., Auburn, N. Y. Nursing bottle holder. 2,590,383, Mar. 25.

De Beer, J. & Son, assignee: *See*—
Pneuman, James I., and Foote.

Decker, Robert W.: *See*—
Sanner, Weldon E., and Decker.

De Directie van de Staatsmijnen in Limburg, assignee: *See*—
Fontein, Freerk J.

Dehn, Joseph W., Great Neck, and W. H. T. Holden, Woodside, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulsing circuit. 2,590,514, Mar. 25.

Delastre, Jean, L. Gaizin, and P. Letrilliart, Jeumont, assignors to Societe Anonyme Dite: Forges & Ateliers de Constructions Electriques de Jeumont, Paris, France. Winding in collector machine. 2,590,298, Mar. 25.

Dent, Myrtle D., assignee: *See*—
Dent, Robert C., Pike, and Pike.

Dent, Robert C., D. P. and P. V. Pike, said Dent assignor of one-third, said D. P. Pike one-twelfth, and said P. V. Pike, one-twelfth to M. D. Dent, Caruthersville, Mo. Magazine display and dispensing rack for rolled goods. 2,590,384, Mar. 25.

Derby Sealers, Incorporated, assignee: *See*—
Krueger, Alfred P., and Erhardt.

Derham, Philip A., Rosemont, Pa., assignor to Louis Marx & Company, New York, N. Y. Wheeled toy. 2,590,515, Mar. 25.

De Vaney, Fred D., assignor to Erie Mining Company, Hibbing, Minn. Nodulizing process and apparatus. 2,590,090, Mar. 25.

Devereaux, Guy L., Edmore, Mich. Implement hitch for tractors. 2,590,385, Mar. 25.

Devol, George C., Greenwich, Conn., assignor to Remington Rand Inc., New York, N. Y. Magnetic process control. 2,590,091, Mar. 25.

De von Breymann, Maruja A., San Jose, Costa Rica. Trigger safety for firearms. 2,590,516, Mar. 25.

De Weiss, Ferdinand A.: *See*—
Tandler, William S., Walker, and de Weiss.

Diamond Alkali Company, assignee: *See*—
Rugar, George F.

Diamond Match Company, The, assignee: *See*—
Stevens, Samuel S.

Dick, A. B., Company, assignee: *See*—
Johnson, Clyde W.

Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Nitrobenzeneazo-N-difluoroalkyl-N-hydroxyalkylaniline dye compounds. 2,590,092, Mar. 25.

Distillers Company Limited, The, assignee: *See*—
Hawkins, Edwin G. E., and Salt.

Dixon, Henry J., West Kirby, assignor to British Insulated Callender's Cables Limited, London, England. Sealing conductor end structures. 2,590,160, Mar. 25.

Dobrick, August C., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill. Vacuum breaker. 2,590,386, Mar. 25.

Dodge, Adiel Y., Rockford, Ill. Friction brake for wheeled vehicles. 2,590,690, Mar. 25.

Dodge, John S., Exeter, N. H., assignor to Lowell Wrench Company, Worcester, Mass. Reversible ratchet wrench. 2,590,387, Mar. 25.

Doering, William A., Palo Alto, Calif. Juice extractor. 2,590,237, Mar. 25.

Dornath, Enno J., Coquille, Oreg. Toy logging truck and trailer. 2,590,388, Mar. 25.

Dorr Company, The, assignee: *See*—
Roberts, Elliott J.

Dorsey, Dennis B., Chicago, Ill. Camera exposure control. 2,590,161, Mar. 25.

Dosser, Robert C., Midland, and L. C. White, Jr., Bay City, assignors to The Dow Chemical Company, Midland, Mich. Alkanolamine salts of 2,4,5-trichlorophenoxyacetic acid. 2,590,815, Mar. 25.

Douglas, Beverly, Nashville, Tenn. Apparatus for removing human skin for grafting purposes. 2,590,299, Mar. 25.

Dow Chemical Company, The, assignee: *See*—
Barry, Arthur J.
Britton, Edgar C., and Head.
Cardwell, Paul H., Coulter, and Jones.
Dosser, Robert C., and White.
Hammer, Oscar H.

Doyle, Douglas J., Chicago, Ill. Time recording apparatus for race tracks. 2,590,389, Mar. 25.

Drangsholt, Christian, Oslo, Norway. Preparation of peptone and amino acid containing extracts from press water. 2,590,517, Mar. 25.

Driver, Cyril W.: *See*—
Frank, Edward J., and Driver.

Drogin, Isaac: *See*—
Skoog, Robert W., and Drogin.

Druey, Jean, Riehen, and P. Schmidt, Therwil, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Quinoxalines and making same. 2,590,075, Mar. 25.

Dudley, Victor I., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Vehicle steering mechanism. 2,590,300, Mar. 25.

Duerr, Carl F., Jr., Gates Mills, assignor, by mesne assignments, of thirty one-hundredths to R. R. Roemer, thirty-five one-hundredths to L. E. Roemer, twenty-five one-hundredths to W. R. Kiefer, and ten one-hundredths to J. E. Tompkins, Cleveland, Ohio. Hand-operated motor-driven radial machine tool. 2,590,093, Mar. 25.

Dufay-Chromex Limited, assignee: *See*—
Coote, Jack H., and Gathercole.

Duncan, William L., and E. L. Griggs, Jr., Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Kinetic stop motion device. 2,590,518, Mar. 25.

Dunlop Rubber Company Limited, assignee: *See*—
Trevaskis, Henry W.

Du Pont, E. I. de Nemours & Company, assignee: *See*—
Duncan, William L., and Griggs.
Messinger, Lester H.
Nichols, James B.

Du Pré, Frits K., White Plains, N. Y., assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Hot-gas engine or refrigerator. 2,590,519, Mar. 25.

Dupre, Henry P.: *See*—
Matthysse, Irving F., and Dupre.

Durham, Darrow P., Long Beach, Calif. Trailer brake operating link. 2,590,238, Mar. 25.

Duwos, André, Saint Cloud, assignor to Tecalemit, Societe Anonyme, Paris, France. Oil-bath intake-air filter. 2,590,520.

Dyche, Howard E., Jr., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Airplane stall warning system. 2,590,521, Mar. 25.

Dyer, Lloyd W., and G. J. Freese, Beaver, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Bus duct plug in adapter. 2,590,522, Mar. 25.

Earland, Christopher, J. L. Bailey, and D. Carter, assignors to Wolsey Limited, Leicester, England. Treatment of wool with N-chlorine compounds. 2,590,390, Mar. 25.

Eastern States Petroleum Co., Inc., assignee: *See*—
Armstrong, John L.

Eastman Kodak Company, assignee: *See*—
Dickey, Joseph B.

Edgar, Robert F., Pattersonville, N. Y., assignor to General Electric Company. Bearing. 2,590,761, Mar. 25.

Edwards, Andrew W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter contact pressure increasing device. 2,590,523, Mar. 25.

Edwards, Andrew W., East McKeesport, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,590,524, Mar. 25.

Egeberg, Birger, Meriden, M. A. Orr, Southington, and J. P. Phaneuf, assignors to The International Silver Company, Meriden, Conn. Method and material for preventing the tarnishing of silverware. 2,590,094, Mar. 25.

Egeberg, Birger, Meriden, M. A. Orr, Southington, and J. P. Phaneuf, assignors to The International Silver Company, Meriden, Conn. Silverware container. 2,590,095, Mar. 25.

Egry Register Company, The, assignee: *See*—
Sadgebury, Herman F., and Ward.

Ehmann, Ludwig: *See*—
Miescher, Karl, Ehmann, and Wettstein.

Ehrsam, Adolph, assignee: *See*—
Hurley, Herman W.

Eldridge, Hoxie: *See*—
Merkle, Arthur G., and Eldridge.

Electric Auto-Lite Company, The, assignee: *See*—
Stoltenberg, Delbert H.

Electric Controller & Manufacturing Company, The, assignee: *See*—
Noyes, Everett E.

Electrolux Corporation, assignee: *See*—
Cranmer, George H.

Electromode Corporation, assignee: *See*—
Mast, Lowell R.

Elliott Company, assignee: *See*—
Aronson, David.

Ellis, Kenneth A., Evansville, Wis. Fan oscillating mechanism. 2,590,762, Mar. 25.

Ellis, Samuel B., Long Island City, N. Y. Humidifying blanket. 2,590,301, Mar. 25.

Elmore, Frank R., Borger, Tex. Electric safety wall box. 2,590,391, Mar. 25.

Elsman, James L., Parchment, Mich. Method and apparatus for printing and applying labels to wrapping paper. 2,590,239, Mar. 25.

Epstein, David W., Princeton, N. J., assignor to Radio Corporation of America. Multiple image projector. 2,590,240, Mar. 25.

Erhardt, Oscar P.: *See*—
Krueger, Alfred P., and Erhardt.

Erie Mining Company, assignee: *See*—
De Vaney, Fred D.

Esarey, Raymond W., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dynamoelectric machine construction. 2,590,525, Mar. 25.

Ettel, Viktor, assignor to Spolek pro chemickou a hutni vyrobu, narodni podnik, also named United Chemical and Metallurgical Works, National Corporation, Prague, Czechoslovakia. Impregnating wood with soluble arsenical compounds. 2,590,162, Mar. 25.

Ettel, Viktor, assignor to Spolek pro chemickou a hutni vyrobu, narodni podnik, also named United Chemical and Metallurgical Works, National Corporation, Prague, Czechoslovakia. Production of an acid of the ascorbic acid type from a 2-keto-hexonic acid. 2,590,163, Mar. 25.

Evans, Clarence T., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electromagnetic timing relay. 2,590,302, Mar. 25.

Evans, David S., Radlett, England. Calculating machine. 2,590,599, Mar. 25.

Evans, Robert B., Natrona, assignor to Mine Safety Appliances Company, Pittsburgh, Pa. Lift front lens holder. 2,590,526, Mar. 25.

Ewart, Gweldon O., Ollie, Iowa. Coin-counting and wrapping device. 2,590,241, Mar. 25.

Fairbank, Murry N., Belmont, assignor to Polaroid Corporation, Cambridge, Mass. View finder centering device for photographic apparatus. 2,590,164, Mar. 25.

Fairbank, Murry N., Belmont, and L. Rosenblum, assignors to Polaroid Corporation, Cambridge, Mass. Brightness meter. 2,590,165, Mar. 25.

Fairey Aviation Company Limited, The, assignee: *See*—
Lisle, William G.

Faith, Herman E., New Palestine, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo. 2,2'-dihydroxy-3-hydroxymethyl-5,5'-dichlorodiphenylmethane. 2,590,816, Mar. 25.

Farbenfabriken Bayer, assignee: *See*—
Rickert, Hans F., Stein, and Bayer.

Farr, Edward A., and J. P. Theisen, assignors to Arvin Industries, Inc., Columbus, Ind. Electric room heater. 2,590,600, Mar. 25.

Farrell, Anna E., Seattle, Wash. Device for making flat curls. 2,590,166, Mar. 25.

Fasano, Ernest F.: *See*—
Fasano, Michael J. and E. F.

Fasano, Michael J. and E. F., Rochester, N. Y. Fishing lure. 2,590,167, Mar. 25.

Fast, John E., & Co., assignee: *See*—
Melsheimer, Charles A.

Federal Telephone and Radio Corporation, assignee: *See*—
Adams, Paul R.

Feilden, Geoffrey B. R., assignor to Ruston & Hornsby Limited, Lincoln, England. Flexible joint for pipes carrying internal fluid pressure. 2,590,392, Mar. 25.

Feldman, Julian, and M. Orchin, Pittsburgh, Pa. Purification of phenanthrene by azeotropic distillation. 2,590,096, Mar. 25.

Felici, Noël, Grenoble, assignor to Centre National De La Recherche Scientifique, Paris, France. Explosion engine ignition. 2,590,168, Mar. 25.

Felters Company, The, assignee: *See*—
Young, Joseph W.

Fenno, Joseph E., Rutherford, assignor to Stuyvesant Engineering Company, Lyndhurst, N. J. Package filling machine. 2,590,817, Mar. 25.

Ferris, Howard H.: *See*—
Moland, Warren P., and Ferris.

Fessler, Julius H., Berkeley, Calif. Treatment of wines. 2,590,076, Mar. 25.

Few, William, and J. D. Sauter, Cleveland Heights, and W. F. Szabo, assignors to The Clark Controller Company, Cleveland, Ohio. Frequency relay. 2,590,393, Mar. 25.

Filzer, Christian G., Erie, Pa. Apparatus for violet ray treatment. 2,590,601, Mar. 25.

Fiore, Alphonse T.: *See*—
Kunz, Eric C., and Fiore.

Fischer, Donald E.: *See*—
Adams, William J., Jr., and Fischer.

Fisher, Albert B., Jr.: *See*—
Shaffer, Chester E., and Fisher.

Fladmark, Morten, Oslo, Norway. Manufacture of oil and food products from herring, whales and other sea animals. 2,590,303, Mar. 25.

Flores, Manuel G., Mexico City, Mexico. Apparatus and method for molding concrete floor slabs in situ. 2,590,304, Mar. 25.

Floyd, Claude C., and J. H. Narron, Arlington, Va. Trimming for license plates. 2,590,763, Mar. 25.

Fluck, Fridolin, assignor of one-half to J. Niedermann, Lucerne, Switzerland. Suction massage device. 2,590,527, Mar. 25.

Fontein, Freerk J., assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands. Separation of solid substances of different specific gravity and grain size. 2,590,691, Mar. 25.

Food Machinery and Chemical Corporation, assignee: *See*—
Adams, William J., Jr., and Fischer.
Hait, James M.
Keesling, Thomas B.

Foote, James L.: *See*—
Pneuman, James I., and Foote.

Ford Motor Company, assignee: *See*—
MacPherson, Earle S.

Forgue, Stanley V., Cranbury, N. J., assignor to Radio Corporation of America. Color television image tube. 2,590,764, Mar. 25.

Forstmann Woolen Company, assignee: *See*—
Zimmerman, John, Wolf, and Weiner.

Fosdick Machine Tool Company, The, assignee: *See*—
Linden, Carl E., and Wetzel.

Foster, Emery L., Raytown, Mo. Hydraulically controlled continuously variable ratio torque converter. 2,590,305, Mar. 25.

Frank, Edward J., Springfield, and C. W. Driver, Secane, Pa., assignors to General Electric Company. Operating rod for electric switches. 2,590,765, Mar. 25.

Franks, Joseph, deceased, Lawrence; M. Young, Boston, Mass., executor, assignor to the said M. Young, as trustee. Flat tire indicator. 2,590,394, Mar. 25.

Fredendall, Gordon L., and A. C. Schroeder, Feasterville, Pa., assignors to Radio Corporation of America. Combined television and sound system. 2,590,306, Mar. 25.

Freeport Sulphur Company, assignee: *See*—
Barsky, George.

Freese, Gerald J.: *See*—
Dyer, Lloyd W., and Freese.

Freudenstein, Ferdinand, Buffalo, N. Y. Adjustable velocity-control mechanisms. 2,590,692, Mar. 25.

Frink, Russell E., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,590,602, Mar. 25.

Fritz, Dwain E., assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Torsional drive shaft. 2,590,169, Mar. 25.

Fry, Clifford W., assignor to The Buckeye Aluminum Company, Wooster, Ohio. Cover knob. 2,590,395, Mar. 25.

Fry, Douglas J.: *See*—
Kendall, John D., and Fry.

Fuel Research Corporation, assignee: *See*—
Stillman, Albert L.

Fusco, Carlo J., Chicago, Ill. Multiple disk filter. 2,590,242, Mar. 25.

Gabel, Joseph W., Sugar Grove, Ohio, and S. A. Loukomsky, North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Reference signal generator for flickering beam photometers. 2,590,693, Mar. 25.

Gabrielson, Samuel: *See*—
Sinks, Allen T., Pfuntner, and Gabrielson.

Gafanesch, André: *See*—
Colin, Jules, Burr, and Gafanesch.

Galzin, Louis: *See*—
Delastre, Jean, Galzin, and Letrilliart.

Gamel, Gayne D.: *See*—
Ludwig, Leon R., Stuellein, and Gamel.

Gannett, Wright K.: *See*—
Mast, Gifford M., and Gannett.

Garretson, Owen L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Regulator. 2,590,396, Mar. 25.

Gates, Hesslar H.: *See*—
Bryant, William J., Gates, and Ljunggren.

Gates, Hesslar H., Charlestown, N. H., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Portable air gauge. 2,590,170, Mar. 25.

Gates Rubber Company, The, assignee: *See*—
Kessler, David L., and Worley.

Gathercole, William H.: *See*—
Coote, Jack H., and Gathercole.

Gay, Fred G., Jr., Greece, and D. J. McCulloch, assignors to Bausch & Lomb Optical Company, Rochester, N. Y. Eyeshield. 2,590,397, Mar. 25.

Gegenschatz, Walter, assignor to Zellweger A. G. Apparate- und Maschinenfabriken Uster, Uster, Switzerland. Thread feeding device for thread testing machines. 2,590,398, Mar. 25.

Geh, Eugene: *See*—
Johnson, Le Baron B., and Geh.

General Aniline & Film Corporation, assignee: *See*—
Copenhaver, John W.
Williford, Edward A., and Sweet.

General Electric Company, assignee: *See*—
Clapp, Charles W.
Edgar, Robert F.
Frank, Edward J., and Driver.
Lautenberger, Elmer W.
Lynch, Edward E.
Mayer, Harry F.
Schaffer, Herman W.
Siciliano, Anthony C.
Sinks, Allen T., Pfuntner, and Gabrielson.
Stephenson, Hugh M.
Unger, Magnus, and Bates.
Wagner, Ernest A.
Young, Robert B.

General Motors Corporation, assignee: *See*—
Klopak, Joseph.
Large, Samuel R.
Muzzey, Clifford L.

General Precision Laboratory Incorporated, assignee: *See*—
Gilbert, Clarke M.

Geophysical Research Corporation, assignee: *See*—
Hartmann, Carl H. W.

George, Ross F., Seattle, Wash. Ruling guide for artists' pens. 2,590,243, Mar. 25.

Gerow, Theron G., assignee: *See*—
Hammond, Newton.

Ghelmini, Leon J., New York, N. Y. Crochet frame. 2,590,694, Mar. 25.

Gibson, Alexander J., Philadelphia, Pa. Wrench case. 2,590,307, Mar. 25.

Gieskieng, Marion W., Denver, Colo. Railway wheel checking device. 2,590,603, Mar. 25.

Gilbert, Clarke M., Chappaqua, N. Y., assignor to General Precision Laboratory Incorporated. Phase advance circuit. 2,590,528, Mar. 25.

Gilbert, Robert E., Gillette, Wyo. Mole chisel plow attachment. 2,590,399, Mar. 25.

Gillies, John, Ardrossan, and J. Rowe, Irvine, Scotland, assignors to Imperial Chemical Industries Limited. Fumigating compositions. 2,590,529, Mar. 25.

Githens, Thomas F., Cleveland Heights, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio. Forming tool blanks. 2,590,766, Mar. 25.

Giuffrida, Philip, Lawrence, assignor to Photoswitch Incorporated, Cambridge, Mass. Movie projector safety device. 2,590,604, Mar. 25.

Givaudan Corporation, The, assignee: *See*—
Kunz, Eric C., and Fiore.

Godsey, Frank W., Jr., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Series lamp cutout. 2,590,605, Mar. 25.

Golden, Robert, Los Angeles, Calif. Electrical control circuit. 2,590,606, Mar. 25.

Golinick, Helen, assignee: *See*—
Golinick, Theodore E.

Golinick, Theodore E., assignor of 50 per cent to H. Golinick, Fort Pierce, Fla. Tree sprayer. 2,590,400, Mar. 25.

Gomberg, Jacob, Chicago, Ill. Bobbin for hand knitting yarn and the like. 2,590,695, Mar. 25.

Goodman, Donald A., McCall, Idaho. Ski binding. 2,590,097, Mar. 25.

Goodrich, B. F., Company, The, assignee: *See*—
Krotz, Alvin S.

Goodrich, Frank W.: *See*—
Almgren, August E., Jakob, and Goodrich.

Gordon, James F., assignor to Bendix Aviation Corporation, Towson, Md. Radar pulsing system. 2,590,308, Mar. 25.

Gordon, Reed D., Detroit, Mich. Hat holder. 2,590,401, Mar. 25.

Grafiex, Inc., assignee: *See*—
Hineline, Edson S.

Graham, John D.: *See*—
Kincaid, Homer F., Graham, and Redmond.

Gray Tool Company, assignee: *See*—
Crain, Robert L.

Green, Edward A., assignor to Security Machine Products Company, Chicago, Ill. Apparatus for manufacturing nuts. 2,590,171, Mar. 25.

Gregoire, Resta S., Detroit, Mich. Oil seal. 2,590,696, Mar. 25.

Greig, John H.: *See*—
McVay, Millard S., and Greig.

Griggs, Ernest L., Jr.: *See*—
Duncan, William L., and Griggs.

Grimball, Burmain A., Charleston, S. C. Combined cane and crutch. 2,590,607, Mar. 25.

Griscom Russell Company, The, assignee: *See*—
Ris, Kenneth B.

Groat, Francis P., assignor to The Magee Carpet Company, Bloomsburg, Pa. Making pile fabrics. 2,590,608, Mar. 25.

Groat, Francis P., and H. W. Hill, assignors to The Magee Carpet Company, Bloomsburg, Pa. Pile wire. 2,590,609, Mar. 25.

Groenendyke, Goethe M., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Seismic prospecting system. 2,590,530, Mar. 25.

Grosch, George S., assignor to Safway Steel Products, Inc., Milwaukee, Wis. Winch. 2,590,610, Mar. 25.

Grove, Don S., Carnegie, Pa. Endless abrasive belt and manufacturing same. 2,590,697, Mar. 25.

Gruenberg, Otto C., Glen Rock, N. J. Guard device for axle-embracing gear housing. 2,590,309, Mar. 25.

Guardian Electric Manufacturing Co., assignee: *See*—
Leszczynski, Raymond S.

Guarino, Arthur A.: *See*—
Guarino, Mary A. and A. A.

Guarino, Mary A. and A. A., Brooklyn, N. Y. Venetian blind protector. 2,590,767, Mar. 25.

Guler, William, and R. E. Carter, assignors to Unit Rig & Equipment Company, Tulsa, Okla. Hoisting apparatus. 2,590,172, Mar. 25.

Guilford Hosiery Mills, Incorporated, assignee: *See*—
Longtin, Donald G.

Guilleminot, René: *See*—
Guilleminot, Roger, and R.

Guilleminot, Roger, Paris, and R. Guilleminot, Quievrechain, France. Apparatus for continuously producing corrugated glass sheets. 2,590,768, Mar. 25.

Gunter, Frank B., Glen Burnie, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Power supply. 2,590,611, Mar. 25.

Guyer, Edwin M., assignor to Corning Glass Works, Corning, N. Y. Deionized electrode in electric glassworking. 2,590,173, Mar. 25.

Gypsum, Lime and Alabastine, Canada, Limited, assignee: *See*—
Rourke, Terrence A.

Haas, Albert A., Macon, Ga. Retarding impacts on railroad cars. 2,590,406, Mar. 25.

Haas, Hermann, Remscheld-Lennep, Germany. Open width dyeing machine with perforated cylinders. 2,590,407, Mar. 25.

Haboush, Edward J., Brooklyn, N. Y. Device for bending fracture nails and the like for impacting fractures and extracting such nails. 2,590,532, Mar. 25.

Hagen, John P., Arlington, and A. H. Ryan, Alexandria, Va. Thyratron modulator. 2,590,098, Mar. 25.

Hait, James M., San Jose, Calif., assignor to Food Machinery and Chemical Corporation. Driven dirigible dual front wheel unit for tractors. 2,590,174, Mar. 25.

Hajdu, Julius, Cleveland, Ohio. Fastening device. 2,590,175, Mar. 25.

Hall, John D., Welwyn Garden City, B. P. Ridge, Potters Bar, and J. R. Whinfield, Hampstead, London, England, assignors to Imperial Chemical Industries Limited. Lightweight polymethylene terephthalate fabric produced by alkali treatment. 2,590,402, Mar. 25.

Hallas-Moller, Knud, Holte, and K. Peterson, assignors to Novo Terapeutisk Laboratorium A/S, Copenhagen, Denmark. Preparation of ammonium penicillin. 2,590,403, Mar. 25.

Hamer, Alfred A., Alexandria, Va. Hanger construction for supporting meat hooks. 2,590,533, Mar. 25.

Hammer, Oscar H., South Haven, assignor to The Dow Chemical Company, Midland, Mich. Parasiticide composition. 2,590,818, Mar. 25.

Hammond, Newton, Murphysboro, assignor to twenty-four and one-half per cent to F. Huff, Du Quoin, and twenty-four and one-half percent to T. G. Gerow, Skokie, Ill. Car coupler. 2,590,404, Mar. 25.

Hampe, Pierre, assignor of one-half to Societe dite: Etablissements & Laboratoires Georges Truffaut, Versailles, and one-half to G. Truffaut, Versailles, Seine-et-Oise, France. Apparatus for producing electrified powders by friction. 2,590,534, Mar. 25.

Hanchette, George D., Jr., Millburn, N. J., assignor to Radio Corporation of America. Selective squelch circuit. 2,590,310, Mar. 25.

Hancock, Charles L., Tuthill, S. Dak. Animal trap. 2,590,099, Mar. 25.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Signal to noise ratio of radar systems. 2,590,405, Mar. 25.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. High-frequency electron discharge device and circuits therefor. 2,590,612, Mar. 25.

Hanson, John E., Richmond, assignor to California Research Corporation, San Francisco, Calif. Detergent composition. 2,590,613, Mar. 25.

Harbison, Dixon T., Fort Worth, Tex. Valve cage. 2,590,244, Mar. 25.

Harbison, Dixon T., Fort Worth, Tex. Sand ring for insert pumps. 2,590,245, Mar. 25.

Harbison-Walker Refractories Company, assignee: *See*— Osborn, Elburt F.

Harper, Philip S., assignor to Harper-Wyman Company, Chicago, Ill. Gas valve. 2,590,535, Mar. 25.

Harper-Wyman Company, assignee: *See*—
Harper, Philip S.
Lamar, Charles C.
Peterson, Vincent C.

Harrison (Birmingham) Limited, assignee: *See*— Murphy, Reginald J.

Harrison, Robert G.: *See*— Ruthven, James, Jr., and Harrison.

Harter, Isaac, and I. Harter, Jr., Beaver, and O. R. Carpenter, Barberton, Ohio, assignors, by mesne assignments, to the Babcock & Wilcox Company, Jersey City, N. J. Process of and apparatus for continuously casting metals. 2,590,311, Mar. 25.

Harter, Isaac, Jr.: *See*— Harter, Isaac and I., Jr., and Carpenter.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Du Pré, Frits K.
Hofland, Karel R.
Van Weenen, Franciscus L.

Hartford National Bank and Trust Company, as trustee, assignee: *See*— Rinia, Herre.

Hartley, Emmett C., Euclid, assignor to The Parker Appliance Company, Cleveland, Ohio. Differential fuel regulator for turbojet engines. 2,590,312, Mar. 25.

Hartmann, Carl H. W., Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y. Tubular chart device. 2,590,313, Mar. 25.

Haun, Arnold H., Williamsport, Ind., assignor to Radio Corporation of America. On-off indicator for radio apparatus. 2,590,314, Mar. 25.

Hawk, George T.: *See*— Jasper, Cronje, and Hawk.

Hawkins, Edwin G. E., Lower Kingswood, Tadworth, and F. E. Salt, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Tertiary alcohols. 2,590,176, Mar. 25.

Hawkins, Henry L., Sr., Rustburg, Va. Bath sponge holder. 2,590,614, Mar. 25.

Hawley, William E., Jr., Rochester, N. Y. Play pen. 2,590,315, Mar. 25.

Hayden, George D., Newport, Mich. Adjustable bore gauge. 2,590,698, Mar. 25.

Haynes, Russell J., assignee: *See*— Rigstad, William W.

Head, James D.: *See*— Britton, Edgar C., and Head.

Heal, Lionel C., Winnersh, Reading, England. Animal trap. 2,590,316, Mar. 25.

Heal, Ralph E., Elizabeth, assignor to Merck & Co., Inc., Rahway, N. J. Ground parts of Ryania plant as insecticides. 2,590,536, Mar. 25.

Heckendorn, Clarence, Charlotte, N. C. Removable page and bookmark. 2,590,615, Mar. 25.

Heckman, Edward A., and J. J. Kling, Allentown, Pa., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for winding strands on articles. 2,590,246, Mar. 25.

Heil, Oskar, Konstanz, Germany. Power amplifier tube. 2,590,100, Mar. 25.

Heller, Max, Brooklyn, N. Y. Waistband. 2,590,616, Mar. 25.

Heminway & Bartlett Mfg. Co., The, assignee: *See*— Thompson, Walter E., Jr., and Taylor.

Henderson, Lee R., Kosmos, and A. C. Seago, Yakima, Wash. Scaffold for handling sheet material. 2,590,617, Mar. 25.

Henderson, Walter, Maywood, Ill. Track locating device for toy trains. 2,590,317, Mar. 25.

Henneman, Clarence O., Bartlesville, Okla., assignor to Phillips Petroleum Company. Double check quick filler valve. 2,590,408, Mar. 25.

Henschke, Ulrich K., Garmisch-Partenkirchen, and H. A. Mauch, Rottweil-on-the-Neckar, Germany. Tachistoscope. 2,590,101, Mar. 25.

Hercules Powder Company, assignee: *See*— Putnam, Stearns T.

Herrstrum, Rudolph E., assignor to Rockford Machine Tool Company, Rockford, Ill. Back-pressure valve for hydraulic machine tools. 2,590,769, Mar. 25.

Heyer, Eric H., Los Angeles, Calif. Drive for photographic material. 2,590,699, Mar. 25.

Hieserman, Clarence E., Cumberland, Md., assignor to Celanese Corporation of America. Brominating 1-amino-2-sulfoanthraquinone. 2,590,247, Mar. 25.

Hill, Harry W.: *See*— Groat, Francis P., and Hill.

Hineline, Edson S., assignor to Graflex, Inc., Rochester, N. Y. Hand-held roll-film camera. 2,590,409, Mar. 25.

Hirschle, Alfred, Philadelphia, Pa. Automatic fire alarm. 2,590,770, Mar. 25.

Hochman, Bruce I., Los Angeles, Calif. Cutting and salvaging automobile bodies. 2,590,700, Mar. 25.

Hodkin, Forest C., Dallas, Tex. Holder for invoice books. 2,590,618. Mar. 25.

Hoe, R., & Co., Inc., assignee: *See*— Huck, William F.

Hoffman, Max, Boston, Mass. Snow melting apparatus. 2,590,701, Mar. 25.

Hofland, Karel R., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cutting plate for a dry-shaving apparatus. 2,590,619, Mar. 25.

Holbik, Frank J., assignor to Speed-Meal Corporation, Racine, Wis. Safety and release valve for pressure cookers. 2,590,620, Mar. 25.

Holden, William H. T.: *See*— Dehn, Joseph W., and Holden.

Holden, William H. T., Woodside, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Voltage sensitive circuit. 2,590,248, Mar. 25.

Holliday, John B.: *See*— Mordell, Donald L., and Holliday.

Hollis, Robert F.: *See*— Breyfogle, Roy H., and Hollis.

Hollis, Robert F., assignor to Alton Box Board Company, Alton, Ill. Valve. 2,590,318, Mar. 25.

Holmes, Bradford B., New York, N. Y., and J. L. Pauly, Hasbrouck Heights, assignors to Bendix Aviation Corporation, Teterboro, N. J. High-pressure valve. 2,590,702, Mar. 25.

Holmes, Gray W., Miller, Mo. Tractor mowing attachment. 2,590,537, Mar. 25.

Holophane Company, Inc., assignee: *See*— Logan, Henry L.

Holt, William J., Jr., assignor to Varo Mfg. Co., Inc., Garland, Tex. Electric translating system. 2,590,319, Mar. 25.

Homan, John, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery plate and forming same. 2,590,703, Mar. 25.

Hoog, Helmer, assignee: *See*— Lagher, Gunnar H.

Hooker Electrochemical Company, assignee: *See*— Rosenberg, David S.

Hooper, Norbert, assignor to Tweedales and Smalley (1920) Limited, Castleton, Rochdale, England. Ring spinning machine. 2,590,621, Mar. 25.

Hoover, Vaino A., Los Angeles, Calif. Mechanical actuator. 2,590,251, Mar. 25.

Hopkins, Cecil W., assignor to Landis Machine Company, Waynesboro, Pa. Machine tool. 2,590,102, Mar. 25.

Hopwood, John A., Westfield, assignor to Monitor Process Corporation, Jersey City, N. J. Glass controlled dispensing valve. 2,590,177, Mar. 25.

Hörgård, Asbjörn, Drontheim, Norway. Fishing net attachment. 2,590,249, Mar. 25.

Horman, Alfred E., New York, N. Y. Excess flow check valve. 2,590,250, Mar. 25.

Houilleres du Bassin du Nord et du Pas de Calais, assignee: *See*— Tramblay, Robert.

Houser, Arthur V. T., Dayton, Ohio. Supplemental throttle controlling device. 2,590,320, Mar. 25.

Howard, Stanley R., Milton, and R. W. Vergobbi, assignors to Pneumatic Scale Corporation, Limited, Quincy, Mass. Check weighing machine. 2,590,704, Mar. 25.

Huber, Matthew W., Watertown, N. Y., assignor to The New York Air Brake Company. Feeder control for hydraulic pumps. 2,590,622, Mar. 25.

Huck, William F., Forest Hills, assignor to R. Hoe & Co., Inc., New York, N. Y. Inking mechanism for printing machines. 2,590,538, Mar. 25.

Hudson, Thomas B., Bartlesville, Okla., assignor to Phillips Petroleum Company. Catalyst control in organic reactions. 2,590,539, Mar. 25.

Huebner, William C., New York, N. Y. Printing means. 2,590,321, Mar. 25.

Huff, Fred, assignee: *See*— Hammond, Newton.

Hulse, Alexander B., Jr., Dallas, Tex. Concentric helical drum differential winch. 2,590,623, Mar. 25.

Huribut, Cornelius S., Jr., Belmont, assignor to Cambridge Thermionic Corporation, Cambridge, Mass. Film rack. 2,590,705, Mar. 25.

Hurley, Herman W., Louisville, Ky., assignor of fifty per cent to A. Ehrsam, Fredericksburg, Ind. Garment drying rack support. 2,590,410, Mar. 25.

Hursh, Lucile M., assignee: *See*— Snyder, Cyrus L., and Schroeder.

Hurst, Edmund E., and J. W. Paxton, Bloomington, Ill. Prospective drafting device. 2,590,252, Mar. 25.

Huyett, Robert B., assignor to Pangborn Corporation, Hagerstown, Md. Roll blasting equipment. 2,590,819, Mar. 25.

Hy-Way Machinery, Incorporated, assignee: *See*— Miller, William J.

Ilford Limited, assignee: *See*— Kendall, John D., and Fry.

Illinois Powder Manufacturing Company, assignee: *See*— Baker, Arthur W.

Imhoff, Donald H., and C. H. O. Berg, Long Beach, assignors to Union Oil Company of California, Los Angeles, Calif. Adsorption process. 2,590,322, Mar. 25.

Imperial Brass Manufacturing Company, The, assignee: *See*— Dobrick, August C.

Imperial Chemical Industries Limited, assignee: *See*— Gillies, John, and Rowe.
Hall, John D'A. H., Ridge, and Whinfield.
Wark, Robert.

Ing. C. Olivetti & C. S. p. A., assignee: *See*— Lanza, Guglielmo.

Interior, United States of America as represented by the Secretary of the, assignee: *See*— King, Howard L.

International Carbonic Engineering Company, assignee: *See*— Jones, Charles L.

International Derrick & Equipment Company, assignee: *See*— Bennett, John D.

International Harvester Company, assignee: *See*— Kincaid, Homer F., Graham, and Redmond.

International Silver Company, The, assignee: *See*— Egeberg, Birger, Orr, and Phaneuf.

Isaac, Peter, St. Catharines, Ontario, Canada. Gear-operated socket wrench. 2,590,706, Mar. 25.

Isenberg, Sampson, assignor, by mesne assignments, to Pollak Luminescent Corporation, Chicago, Ill. Cerium activated aluminate phosphors active in the erythemal range. 2,590,411, Mar. 25.

Jack & Heintz Precision Industries, Inc., assignee: *See*— Frits, Dwain E.
Walley, Omar C., and Scheu.

Jackson, Hagan L., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetron beacon. 2,590,540, Mar. 25.

Jakob, John P.: *See*— Almgren, August E., and Jakob.
Almgren, August E., Jakob, and Goodrich.

James, Bert I., Chanute, Kans. Automatic sash catch. 2,590,624, Mar. 25.

Jamison, Lloyd D., Phoenix, Ariz. Combination convertible golf club and equipment case and cart. 2,590,178, Mar. 25.

Jansen, Max P. J. M., assignor to N. V. Zuid-Nederlandsche Spiritusfabriek, Bergen op Zoom, Netherlands. Working up the waste liquor of fermentation industries in which molasses are used. 2,590,412, Mar. 25.

Janser, Arthur M. J., and C. S. Townsend, London, England, assignors to H. Tevis, Monterey, Capetown, South Africa. Electrical apparatus. 2,590,323, Mar. 25.

Jardines, S. Manuel A., Mayari, Cuba. Powder dispenser for brushes. 2,590,413, Mar. 25.

Jasper, Cronje, Villa Park, and G. T. Hawk, Chicago, Ill. Duct rodding machine. 2,590,414, Mar. 25.

Jedlicka, Rose, administratrix, assignee: *See*— Jedlicka, William.

Jedlicka, William, deceased, Garfield Heights, Ohio, R. Jedlicka, administratrix, assignor to herself individually. Outboard motor steering bar. 2,590,820, Mar. 25.

Jenne, Kenneth C., assignor to Malleable Iron Fittings Company, Branford, Conn. Cable messenger clamping bracket. 2,590,415, Mar. 25.

Jessee, Ralph D.: *See*— Miner, John D., Jr., Austin, and Jessee.

Jessen, Le Roy S., Dayton, Ohio. Automatic aerial target releasing device. 2,590,103, Mar. 25.

Jet-Heet, Inc., assignee: *See*— MacCracken, Calvin D., and Wood.

Joel, Amos E., Jr., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sorting device. 2,590,625, Mar. 25.

Johnson, Albert C., assignor to The Louden Machinery Company, Fairfield, Iowa. Air hay-drying apparatus and making same. 2,590,416, Mar. 25.

Johnson, Clyde W., Islington, Mass., assignor, by mesne assignments, to A. B. Dick Company, Niles, Ill. Sheet delivery device for rotary printing machines. 2,590,179, Mar. 25.

Johnson, Le Baron B., New York, N. Y., and E. Geh, Tenafly, N. J., assignors to Oakite Products, Inc., New York, N. Y. Disolving apparatus. 2,590,541, Mar. 25.

Johnson, Stanley A.: *See*— Weber, Ernst, and Johnson.

Jonas, Gilbert F., assignor to Boyd-Welsh, Inc., St. Louis, Mo. Turned slip-lasted shoe and making the same. 2,590,707, Mar. 25.

Jones, Barton, Los Angeles, Calif. Temperature compensated means for measuring differential pressures. 2,590,324, Mar. 25.

Jones, Charles L., Chicago, Ill., assignor to International Carbonic Engineering Company, Wilmington, Del. Composite solid carbon dioxide. 2,590,542, Mar. 25.

Jones, Edgar J., Cambridge, Mass., assignor to Baldwin-Lima-Hamilton Corporation. Tension yoke for compression load weighing units. 2,590,626, Mar. 25.

Jones, Harry H.: *See*— Cardwell, Paul H., Coulter, and Jones.

Jones, James L., assignee: *See*— Triplett, Lee.

Jones, Robert L., Swissvale, assignor to Edwin L. Wiegand Company, Pittsburgh, Pa. Electric heating. 2,590,417, Mar. 25.

Jordan, Thomas E., Philadelphia, and E. L. Cline, Pittsburgh, Pa., assignors to Allied Chemical & Dye Corporation, New York, N. Y. Polymerization by means of stannic chloride and a promoter therefor. 2,590,771, Mar. 25.

Joy Manufacturing Company, assignee: *See*— Dudley, Victor I.

Joyce, John R., Wimbledon, London, assignor to Power Jets (Research & Development) Limited, London, England. Liquid fuel burner and the like. 2,590,772, Mar. 25.

Juhola, Carl, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Voltage regulation system. 2,590,180, Mar. 25.

Jurasevich, Elsie M., assignee: *See*— Jurasevich, Mitchell L.

Jurasevich, Mitchell L., assignor to E. M. Jurasevich, Alturas, Calif. Interlocking roofing or siding. 2,590,708, Mar. 25.

Kahn, Gertrude, New York, N. Y. Spray guard for knives. 2,590,709, Mar. 25.

Kalaway, John A., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Spaced plate circuit interrupter. 2,590,543, Mar. 25.

Kallok, John L., Torrance, assignor to Montrose Chemical Corporation of California, Los Angeles, Calif. Crystallization of DDT. 2,590,544, Mar. 25.

Kamp, Carl O., assignor to Caterpillar Tractor Co., Peoria, Ill. Rotary grinding table. 2,590,325, Mar. 25.

Karolczuk, Edward: *See*— Owren, Erling, and Karolczuk.

Katz, Mortimer R., Montreal, Quebec, Canada. Drive for cloth spreading machines. 2,590,773, Mar. 25.

Kay, Arthur J., Los Angeles, Calif. Picking machine. 2,590,326, Mar. 25.

Kay, Arthur J., Los Angeles, Calif. Cushion and mattress filling machine having continuously reciprocating discharging means. 2,590,327, Mar. 25.

Kee Zipper Corporation, assignee: *See*— Lackritz, Samuel J.

Keefer, Walter L.: *See*— Rosenberger, William A., and Keefer.

Keesler, Clyde C., Prospect Park, assignor to Rogers Brothers Corporation, Albion, Pa. Power manipulated detachable gooseneck for trailers. 2,590,181, Mar. 25.

Keesling, Thomas B., Campbell, assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Tensioning device. 2,590,183, Mar. 25.

Keller, Curt, Kusnacht, assignor to Aktiengesellschaft fuer Technische Studien, Zurich, Switzerland. Plant for the production of compressed air. 2,590,545, Mar. 25.

Keller, Harry, Philadelphia, Pa. Box cutting attachment for paper box machines. 2,590,774, Mar. 25.

Kelley, Harold W.: *See*— Atkinson, John F., Kelley, and McCutchen.

Kelley, William F., Roxbury, Conn. Adjustable child's seat. 2,590,253, Mar. 25.

Kellogg, M. W., Company, The, assignee: *See*— Blum, Oscar A.
Burton, William P., and Solomon.

Kendall, John D., and D. J. Fry, assignors to Ilford Limited, Ilford, England. Silver halide emulsion containing a thio-imino-urazole as a stabilizer. 2,590,775, Mar. 25.

Kessler, David L., and W. S. Worley, assignors to The Gates Rubber Company, Denver, Colo. V belt power transmission system. 2,590,182, Mar. 25.

Kiefer, William R., assignee: *See*— Duerr, Carl F., Jr.
Osterhus, Ervin J.

Kilbride, John T., assignee: *See*— Buckey, Jefferson P.

Kincaid, Homer F., Carbon Cliff, Ill., J. D. Graham, Louisville, Ky., and J. A. Redmond, Baltimore, Md., assignors to Westinghouse Electric Corporation, and International Harvester Company. Heat-treatment of irregular metallic objects. 2,590,546, Mar. 25.

King, Howard L., Vancouver, Wash., assignor to the United States of America as represented by the Secretary of the Interior. Direct-coupled amplifier. 2,590,104, Mar. 25.

King, William D.: *See*— Winchester, Amos J., Jr., and King.

Kirsch Company, assignee: *See*— Bell, Ralph E.

Kiser, James L., assignor to Melpar, Inc., Alexandria, Va. Potted electrical subassembly. 2,590,821, Mar. 25.

Kling, John J.: *See*— Heckman, Edward A., and Kling.

Klopak, Joseph, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich. Feeding of tapered articles. 2,590,710, Mar. 25.

Kobler & Co., assignee: *See*— Kobler, Victor and W.

Kobler, Victor and W., assignors to Kobler & Co., Zurich, Switzerland. Plate warmer. 2,590,418, Mar. 25.

Kobler, Werner: *See*— Kobler, Victor and W.

Koci, Ludvik J., assignor to Sunbeam Corporation, Chicago, Ill. Heating unit for cooking devices. 2,590,328, Mar. 25.

Kolko, Aron, Seine, France. Adjustable crank for automatically variable-speed transmission gears. 2,590,547, Mar. 25.

Koonz, John C., Fort Wayne, and C. L. Piper, New Haven, assignors to The Magnavox Company, Fort Wayne, Ind. Pressure switch. 2,590,419, Mar. 25.

Kopczynski, John F., Buffalo, N. Y. Punch retainer with lock. 2,590,548, Mar. 25.

Koppers Company, Inc., assignee: *See*—
Shaffer, Chester E., and Fisher.

Koulomsine, Theodore, Val d'Or, Quebec, Canada. Magnetometer. 2,590,184, Mar. 25.

Koverroll, Inc., assignee: *See*—
Lauton, William M.

Kromex Corporation, assignee: *See*—
Ziskin, Manuel S., and Billig.

Kromray, Viva, Argo, Ill. Lipstick and brush compact. 2,590,329, Mar. 25.

Krotz, Alvin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Variable rate spring assembly. 2,590,711, Mar. 25.

Krueger, Alfred P., Stratford, and O. P. Erhardt, assignors to Derby Sealers, Incorporated, Derby, Conn. Tape-serving mechanism. 2,590,549, Mar. 25.

Krueger, Rudolph E., South Gate, Calif. Aircraft cabin pressure regulator. 2,590,330, Mar. 25.

Kuhn, Henry S., Park Ridge, Ill., assignor to F. N. Bard. Joint for molds. 2,590,776, Mar. 25.

Kuns, Eric C., Montclair, and A. T. Fiore, Teaneck, N. J., assignors to The Givaudan Corporation. Production of fatty alcohols. 2,590,105, Mar. 25.

Kupper, William H., West Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Case shifting mechanism and repeat typing mechanism for power-operated typewriters and like machines. 2,590,777, Mar. 25.

Lacerenza, Joseph A., New York, N. Y., assignor to Combustion Engineering-Superheater, Inc. Steam generator with double outlet furnace. 2,590,712, Mar. 25.

Lackritz, Samuel J., assignor to Kee Zipper Corporation, New York, N. Y. Slide for hookless fasteners. 2,590,106, Mar. 25.

Lackritz, Samuel J., assignor to Kee Zipper Corporation, New York, N. Y. Hookless fastener device. 2,590,107, Mar. 25.

Lackritz, Samuel J., assignor to Kee Zipper Corporation, New York, N. Y. Hookless slide fastener. 2,590,331, Mar. 25.

Lagher, Gunnar H., Skanes Viby, assignor to H. Hoog, Stockholm, Sweden. Toolhead with adjustment indicator. 2,590,420, Mar. 25.

Lamar, Charles C., assignor to Harper-Wyman Company, Chicago, Ill. Gas valve. 2,590,550, Mar. 25.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Pressure roller apparatus. 2,590,185, Mar 25.

Land, Edwin H., assignor to Polaroid Corporation, Cambridge, Mass. Forming films. 2,590,186, Mar. 25.

Landis & Gyr, A. G., assignee: *See*—
Pudelko, Richard.

Landis Machine Company, assignee: *See*—
Hopkins, Cecil W.

Landree, Ira, Ontonagon, Mich. Toy swinging crane. 2,590,188, Mar. 25.

Langenfeld, A. L., Inc., assignee: *See*—
Pitz, Carl A.

Langos, Alfred F., assignor to Langson Manufacturing Co., Chicago, Ill. Combination toy gun holster and package. 2,590,187, Mar. 25.

Langson Manufacturing Co., assignee: *See*—
Langos, Alfred F.

Lantz, Alpha P., Washington, D. C. Portable sectional ironing board. 2,590,254, Mar. 25.

Lantz, Alpha P., Washington, D. C. Portable collapsible ironing board. 2,590,551, Mar. 25.

Lansa, Guglielmo, Turin, assignor to Ing. C. Olivetti & C. S p. A., Ivrea, Italy. Printing telegraph apparatus. 2,590,421, Mar. 25.

Large, Samuel R., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Bearing seal. 2,590,422, Mar. 25.

Large, William E.: *See*—
Stadum, Clarence B., and Large.

Laurin, Eugene: *See*—
Laurin, James W. and E.

Laurin, James W. and E., International Falls, Minn. Automatic door holder. 2,590,423, Mar. 25.

Lautenberger, Elmer W., Schenectady, N. Y., assignor to General Electric Company. Dual plug ignition system. 2,590,778, Mar. 25.

Lauton, William M., assignor to Koverroll, Inc., Miami, Fla. Toilet tissue holder cover. 2,590,552, Mar. 25.

Leathers, L. M., Sons, assignee: *See*—
Tufts, William F.

Lehmann, Valentine C., Burbank, assignor to Utility Appliance Corp., Los Angeles, Calif. Water distributing apparatus for evaporative coolers. 2,590,779, Mar. 25.

Lehmkuhl, Joakim, Watertown, Conn. Ski binding. 2,590,424, Mar. 25.

Leitz, Ernst, G. m. b. H., assignee: *See*—
Sänger, Otto.
Wagner, Adam.

Lenehan, Bernard E., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Device for minimizing the effects of torsion when reproducing a magnetic record wire. 2,590,627, Mar. 25.

Lenhoff, Samuel H.: *See*—
Lesser, Julius, and Lenhoff.

Lesser, Julius, and S. H. Lenhoff, Chicago, Ill. Can opener suspended from a can. 2,590,553, Mar. 25.

Lessmann, Gerhard P., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control system. 2,590,628, Mar. 25.

Leszczynski, Raymond S., assignor to Guardian Electric Manufacturing Co., Chicago, Ill. Punching device. 2,590,189, Mar. 25.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Retaining windings on rotors. 2,590,255, Mar. 25.

Letrilliart, Pierre: *See*—
Delastre, Jean, Galzin, and Letrilliart.

Lev, Harry, Chicago, Ill. Ventilated cap. 2,590,190, Mar. 25.

Lever Brothers Company, assignee: *See*—
Meyer, Hans.

Levin, Joseph, Baltimore, Md., assignor to Umbrella Machinery Corp., New York, N. Y. Grommet for umbrellas. 2,590,332, Mar. 25.

Libbey, W. S., Company, assignee: *See*—
Libbey, Winfield S.

Libbey, Winfield S., assignor to W. S. Libbey Company, Lewiston, Maine. Coating and treating a pile fabric to set the fibers in the upstanding position. 2,590,713, Mar. 25.

Liebson, Sidney H., Washington, D. C. Chlorine counter. 2,590,108, Mar. 25.

Light, David M., assignor to American Steel Foundries, Chicago, Ill. Brake hanger stabilizer. 2,590,714, Mar. 25.

Linde, Hilding, Kalmar, Sweden. Dust cart. 2,590,256, Mar. 25.

Linden, Carl E., Cincinnati, and F. O. Wetzel, Norwood, assignors to The Fosdick Machine Tool Company, Cincinnati, Ohio. Tool ejector. 2,590,629, Mar. 25.

Lindenbaum, Bernard, Dayton, Ohio. Heater based on utilization of jet propulsion units. 2,590,109, Mar. 25.

Lindstrom, Oscar, assignee: *See*—
Lindstrom, Robert C.

Lindstrom, Robert C., Los Angeles, Calif., assignor of fifty per cent to O. Lindstrom, Great Falls, Mont. Cigarette extinguisher. 2,590,425, Mar. 25.

Linsmeier, Charles A., Two Rivers, Wis. Boat launching apparatus. 2,590,715, Mar. 25.

Lipari, Vincent, Detroit, Mich. Food tray rack. 2,590,630, Mar. 25.

Lippel, Bernard, Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army. System for producing an encoding device. 2,590,110, Mar. 25.

Lisle, William G., East Bedfont, assignor to The Fairey Aviation Company Limited, Hayes, England. Power-operated flying control system for aircraft. 2,590,716, Mar. 25.

Ljunggren, Thor H.: *See*—
Bryant, William J., Gates, and Ljunggren.

Loasby, Charles F., Ridgewood, N. J. Dog bed. 2,590,631, Mar. 25.

Lockheed, Allan H., Arcadia, and H. T. Seale, Alhambra, Calif.; said Seale assignor to said Lockheed. Valve apparatus for fuel distributing systems. 2,590,333, Mar. 25.

Logan, Henry L., New Rochelle, assignor to Holophane Company, Inc., New York, N. Y. Surgical lighting. 2,590,191, Mar. 25.

Logan, Henry L., Bronxville, assignor to Holophane Company, Inc., New York, N. Y. Direct lighting luminaire. 2,590,192, Mar. 25.

Lohr, Raymond J.: *See*—
Carver, Richard N., and Lohr.

Loikema, Jan, Hoogezand, assignor to Naamlooze Vennootschap: W. A. Scholten's Chemische Fabrieken, Groningen, Netherlands. Ice cream composition. 2,590,077, Mar. 25.

Long, Robert S., and S. M. Tsang, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y. Tertiary amine salts of 3,7-diaminodibenzothiophenedioxide 2,8-disulfonic acid. 2,590,632, Mar. 25.

Longtin, Donald G., assignor to Guilford Hosiery Mills, Incorporated, High Point, N. C. Wrap stripe stop motion. 2,590,193, Mar. 25.

Loomer, Morris W., Bellwood, assignor to Sunbeam Corporation, Chicago, Ill. Combined heating element and thermomotive device for cooking devices or toasters. 2,590,334, Mar. 25.

Lorenc, Thomas, assignee: *See*—
Warchalowski, Boleslaw.

Louden Machinery Company, The, assignee: *See*—
Johnson, Albert C.

Loukomsky, Serge A.: *See*—
Gabel, Joseph W., and Loukomsky.

Loverde, Anthony, Niagara Falls, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Photochemical chlorination of hydrocarbons. 2,590,426, Mar. 25.

Lowe, Wallace K., Syracuse, assignor to Crucible Steel Company of America, New York, N. Y. Automatic gauge regulator for grinding and polishing machines. 2,590,717, Mar. 25.

Lowell Wrench Company, assignee: *See*—
Dodge, John S.

Lucas, John G., Saginaw, Mich. Device for mounting and interchanging accessories on a fishing spoon. 2,590,633, Mar. 25.

Ludwig, Leon R., Buffalo, N. Y., W. H. Stuellein, East McKeesport, and G. D. Gamel, Verona, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,590,634, Mar. 25.

Lukacs, Joseph, Astoria, assignor, by mesne assignments, to Technicon Cardiograph Corporation, New York, N. Y. Electrical recording instrument for electrocardiographs. 2,590,554, Mar 25.

Lundquist, Carl E. E., Stockholm, Sweden. Adjustable chair back. 2,590,718, Mar. 25.

Luten, Daniel B., Jr., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Controlling chemical reactions. 2,590,436, Mar. 25.

Lynch Corporation, assignee: *See*—
Sandberg, Oscar.

Lynch, Edward E., Wakefield, Mass., assignor to General Electric Company. Compass controlled directional gyro. 2,590,780, Mar. 25.

Maass, William T., Chicago Heights, Ill. Bookkeeping device. 2,590,259, Mar. 25.

MacCracken, Calvin D., New Rochelle, N. Y., and C. W. Wood, Nutley, assignors to Jet-Heet, Inc., Englewood, N. J. Fuel oil control system. 2,590,111, Mar. 25.

MacCracken, Calvin D., Tenafly, N. J., and C. W. Wood, Dayton, Ohio, assignors to Jet-Heet, Inc., Englewood, N. J. Temperature-responsive throttling valve. 2,590,112, Mar. 25.

Mack Manufacturing Corporation, assignee: *See*—
Soper, Guy E., and Christenson.

Mackay, Johnstone S., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Guanidine synthesis. 2,590,257, Mar. 25.

MacKenzie, William E., South Croydon, England. Wrapping machine for lightly compressed granules. 2,590,427, Mar. 25.

MacPherson, Earle S., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Rotation permitting assembly for poppet valves. 2,590,719, Mar. 25.

Maeder, Arthur, assignor to Ciba Limited, Basel, Switzerland. Manufacture of the carbonyls of nickel. 2,590,078, Mar. 25.

Maeser, Mieth, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Method of and machine for treating hides and skins with liquid. 2,590,194, Mar. 25.

Maffie, James A., Belleville, assignor to Monroe Calculating Machine Company, Orange, N. J. Selective keyboard clearing means. 2,590,335, Mar. 25.

Magee Carpet Company, The, assignee: *See*—
Groat, Francis P.
Groat, Francis P., and Hill.

Magnavox Company, The, assignee: *See*—
Koonz, John C., and Piper.

Mahon, R. C., Company, The, assignee: *See*—
Bingman, Frederick P.

Malchiodi, Dario S., New York, N. Y. Cornice construction. 2,590,555, Mar. 25.

Malleable Iron Fittings Company, assignee: *See*—
Jenne, Kenneth C.

Manasse, Mervyn H., assignee: *See*—
McNabb, Walter J., and W. J. McNabb, Jr.

Manitowoc Shipbuilding Company, assignee: *See*—
Nickles, Edward B.

Mansfield Sanitary Pottery, Inc., assignee: *See*—
Smith, Harry F.

Marchadour, Henri, Quimper, France. Measuring and box filling machine. 2,590,556, Mar. 25.

Mariner, Thomas: *See*—
Stamm, Robert F., and Mariner.

Märki, Emil, Basel, Switzerland. Dental prothesis. 2,590,258, Mar. 25.

Martin, Peter, Leicester, assignor to Power Jets (Research and Development) Limited, London, England. Absorption dynamometer. 2,590,781, Mar. 25.

Mark, Louis, & Company, assignee: *See*—
Derham, Philip A.

Marx, Louis, & Company, Inc., assignee: *See*—
Carver, Richard N., and Lohr.

Marxer, Adrian: *See*—
Miescher, Karl, and Marxer.

Mast, Gifford M., and W. K. Gannett, Davenport, Iowa, assignors to Tru-Vue Company, Beaverton, Oreg. Stereoscopic film viewer. 2,590,260, Mar. 25.

Mast, Lowell R., East Rochester, assignor to Electromode Corporation, Rochester, N. Y. Explosion-proof heater. 2,590,336, Mar. 25.

Mathieson Chemical Corporation, assignee: *See*—
Robson, Homer L.

Matthysse, Irving F., and H. P. Dupre, New York, N. Y., assignors to Burndy Engineering Company, Inc. Intermediate jaw pliers. 2,590,261, Mar. 25.

Mauch, Hans A.: *See*—
Henschke, Ulrich K., and Mauch.

Maves, Verner A. H., Ottawa, Ontario, Canada. Combination salt and pepper shaker with slidable perforate valve plate for selective discharge. 2,590,437, Mar. 25.

Maxon, Glenway, Jr., Milwaukee, Wis. Concrete mixing apparatus. 2,590,438, Mar. 25.

Mayack, Stanley, Frankfort, N. Y. Artificial leg. 2,590,782, Mar. 25.

Mayer, Hans: *See*—
Riat, Henri, and Mayer.

Mayer, Harry F., Baldwinsville, N. Y., assignor to General Electric Company. Electronic time-delay system. 2,590,783, Mar. 25.

Mayer, Robert O., Cincinnati, Ohio. Sectional molder's flask. 2,590,720, Mar. 25.

McAlister, Hubert P., Wyandotte, Mich. Torque mechanism. 2,590,635, Mar. 25.

McAlpine, Roderick K., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Trunk frame designation transfer. 2,590,262, Mar. 25.

McCulloch, Donald J.: *See*—
Gay, Fred G., Jr., and McCulloch.

McCutchen, James M.: *See*—
Atkinson, John F., Kelley, and McCutchen.

McDermott, Eugene, Dallas, Tex. Geochemical prospecting. 2,590,113, Mar. 25.

McGowan, John F., administrator: *See*—
Buckey, Jefferson P.

McKnight, Joseph H., Pittsburgh, Pa., assignor to Star Electronics, Inc. Push-pull resistance type phonograph pickup. 2,590,439, Mar. 25.

McLoad, Kenneth W., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Selector arrangement for seismic prospecting system. 2,590,531, Mar. 25.

McNabb, Walter J., Delhi, and W. J. McNabb, Jr., assignors of one-third to M. H. Manasse, Napa, Calif., and two-thirds to said W. J. McNabb, Jr. Infant's crib. 2,590,337, Mar. 25.

McNabb, Walter J., Jr.: *See*—
McNabb, Walter J., and W. J. McNabb, Jr.

McVay, Millard S., Washington, D. C., and J. H. Greig, New York, N. Y. Cathode-ray indicator. 2,590,114, Mar. 25.

Mead, Edward D., Caldwell, N. J., and O. S. A. Mesch, St. Albans, assignors to Bell Telephone Laboratories Incorporated, New York, N. Y. Electrical control apparatus. 2,590,263, Mar. 25.

Melpar, Inc., assignee: *See*—
Kiser, James L.

Melsheimer, Charles A., Oak Park, assignor to John E. Fast & Co., Chicago, Ill. Metallizing process and apparatus. 2,590,557, Mar. 25.

Merck & Co., Inc., assignee: *See*—
Heal, Ralph E.
Schnebel, Verne H.
Wolf, Frank J.

Merkle, Arthur G., and H. Eldridge, assignors to Sherer-Gillett Company, Marshall, Mich. Adjustable shelf. 2,590,195, Mar. 25.

Merriam, Charles W., Jr., Taunton, and W. L. Morey, Melrose, Mass. Bearing circle. 2,590,115, Mar. 25.

Merrill, Roland A., Van Nuys, Calif. Pole climber with automatic impact drive. 2,590,338, Mar. 25.

Mesch, Orwar S. A.: *See*—
Mead, Edward D., and Mesch.

Messinger, Lester H., Bridgeport, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Retaining device. 2,590,196, Mar. 25.

Meyer, Jean G. A. M. J., Neuilly-sur-Seine, and R. L. Rambert, Gonesse, assignors to the Society S. A. T. A. M. Societe Anonyme Pour Tous Appareillages Mecaniques, La Courneuve, France. Fluid measuring and dispensing apparatus. 2,590,440, Mar. 25.

Meyer, Hans, Richmond, England, assignor, by mesne assignments, to Lever Brothers Company, Cambridge, Mass. Treating yellowish or off-white materials to obtain a white appearance using umbelliferone or methyl umbelliferone. 2,590,485, Mar. 25.

Meyers, George L., Willoughby, and J. C. Shutt, Wickliffe, assignors, by mesne assignments, to The Ohio Rubber Company, Willoughby, Ohio. Sleeve type fastening device for resilient plastic articles and the like. 2,590,264, Mar. 25.

Meyers, Sidney E., New York, N. Y., assignor, by mesne assignments, to Continental Foundry & Machine Company, East Chicago, Ind. Valve mechanism for soot blowers. 2,590,441, Mar. 25.

Mickelson, Lloyd J., St. Clair Shores, Mich., assignor to C. Miller, New York, N. Y. Fishing lure. 2,590,558, Mar. 25.

Miescher, Karl, Riehen, and J. R. Billeter, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Ketohalogenodimethylperhydrophenanthrenes and making same. 2,590,636, Mar. 25.

Miescher, Karl, Riehen, L. Ehmann, and A. Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. Direct halogenation of steroids with an unsaturated side chain in 17-position and the dehydrohalogenation of resultant products. 2,590,637, Mar. 25.

Miescher, Karl, Riehen, and A. Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. 2-cyclohexyl and 2-cyclohexylidene-1-(3-piperidino-propyl)-cyclohexanols. 2,590,638, Mar. 25.

Miller, Carl, assignee: *See*—
Michelson, Lloyd J.

Miller, Fred S.: *See*—
Miller, Glen W. and F. S.

Miller, Glen W., Covina, and F. S. Miller, Monrovia, Calif. Heating device. 2,590,442, Mar. 25.

Miller, Lawrence E., Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Cover means for terminals of dynamoelectric machines. 2,590,559, Mar. 25.

Miller, Lloyd G., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for applying pressure to shoe bottoms. 2,590,197, Mar. 25.

Miller, William J., assignor to Hy-Way Machinery, Incorporated, Youngstown, Ohio. Cutoff plate for spreader boxes. 2,590,443, Mar. 25.

Millman, Jacob, Flushing, N. Y., and H. P. Stabler, Williamstown, Mass., assignors to American Machine and Foundry Company. Bowling machine totalizer. 2,590,444, Mar. 25.

Mine Safety Appliances Company, assignee: *See*—
Evans, Robert B.

Miner, John D., Jr., B. O. Austin, and R. D. Jessee, Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control and protection of electric power system. 2,590,265, Mar. 25.

Mines Domaniales de Potasse d'Alsace, assignee: *See*—
Colin, Jules, Burr, and Gafanesch.

Minkow, Robert, New York, N. Y. Machine for applying glue in stripes to sheet material. 2,590,339, Mar. 25.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Bodey, Charles E.

Minton, John P., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Filter for seismic prospecting. 2,590,822, Mar. 25.

Moland, Warren P., Dorchester, and H. H. Ferris, Milton, Mass. Vacuum tube comparator. 2,590,116, Mar. 25.

Monitor Process Corporation, assignee: *See*—
Hopwood, John A.

Monroe Calculating Machine Company, assignee: *See*—
Maffie, James A.

Monsanto Chemical Company, assignee: *See*—
Skalkeas, Basil G.
Tomlin, Andrew.

Montelius, Carl O. J., Stockholm, Sweden. Screw pump. 2,590,561, Mar. 25.

Montelius, Carl O. T., Stockholm, Sweden. Screw pump. 2,590,560, Mar. 25.

Montrose Chemical Corporation of California, assignee: *See*—
Kallok, John L.

Moody, Clark J., New York, N. Y., assignor to California Research Corporation, San Francisco, Calif. Starting of internal-combustion engines. 2,590,445, Mar. 25.

Mordell, Donald L., Montreal, Quebec, Canada, and J. B. Holliday, assignors to Rolls-Royce Limited, Derby, England. Speed responsive device with fluid pressure modifier. 2,590,340, Mar. 25.

Morey, William L.: *See*—
Merriam, Charles W., Jr., and Morey.

Moser, Eduard, assignor to Ciba Limited, Basel, Switzerland. Azo dyestuff. 2,590,639, Mar. 25.

Moser, Eduard, assignor to Ciba Limited, Basel, Switzerland. Azo dyestuff. 2,590,640, Mar. 25.

Moulton, Stephen W., assignor to Philco Corporation, Philadelphia, Pa. Heterodyne frequency modu'ator with automatic deviation control. 2,590,784, Mar. 25.

Moyer, C. L., Company, assignee: *See*—
Moyer, Charles L.

Moyer, Charles L., deceased, by C. S. Bassett, executor, assignor to C. L. Moyer Company, Chicago, Ill. Feed and transfer mechanism for book-trimming machines. 2,590,198, Mar. 25.

Murphy, Reginald J., assignor to Harrison (Birmingham) Limited, Birmingham, England. Bracket for supporting curtain rails. 2,590,446, Mar. 25.

Musk, Henry A., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Frequency shift monitor. 2,590,641, Mar. 25.

Muth, Charles H., New York, N. Y. Fishing apparatus. 2,590,721, Mar. 25.

Muzzey, Clifford L., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Propeller pitch control apparatus. 2,590,199, Mar. 25.

N. V. Betonfabriek "De Meteoor," assignee: *See*—
Voslamber, Berend J.

N. V. Zuid-Nederlandsche Spiritusfabriek, assignee: *See*—
Jansen, Max P. J. M.

Naamlooze Vennootschap: W. A. Scholten's Chemische Fabrieken, assignee: *See*—
Lolkema, Jan.

Nabholz, Orvie E., Shellsburg, Iowa. Filing cabinet. 2,590,341, Mar. 25.

Narron, James H.: *See*—
Floyd, Claude C., and Narron.

National Cylinder Gas Company, assignee: *See*—
Bernard, Arthur A.

National Organ Supply Company, assignee: *See*—
Roehri, Bruno C.

National Steel Corporation, assignee: *See*—
Raymond, Antonin.

Nealy, William G., assignor to Terrell Manufacturing Company, Inc., Terrell, Tex. Poultry dressing tool. 2,590,785, Mar. 25.

Neidich, George G., assignor to The Todd Company, Inc., Rochester, N. Y. Ink transfer ribbon. 2,590,200, Mar. 25.

Nelson, Carroll H., Cedar Rapids, Iowa. Hog waterer. 2,590,266, Mar. 25.

Nelson, John W.: *See*—
Teter, John W., and Nelson.

Nelson, John W., Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y. Grease. 2,590,786, Mar. 25.

New York Air Brake Company, The, assignee: *See*—
Huber, Matthew W.

Nichols, James B., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Solutions of polyamides in solvent mixtures. 2,590,642, Mar. 25.

Nickles, Edward B., assignor to Manitowoc Shipbuilding Company, Manitowoc, Wis. Truck type articulated crane. 2,590,787, Mar. 25.

Niedermann, Joseph, assignee: *See*—
Fluck, Fridolin.

Niehaus, Carl F. and W. G., Indianapolis, Ind. Air washer. 2,590,342, Mar. 25.

Niehaus, William G.: *See*—
Niehaus, Carl F. and W. G.

Nielsen, Adolph, Oakland, Calif. Tractor hitch. 2,590,201, Mar. 25.

Nielsen, Russell A., South Pasadena, Calif., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Progressive dielectric heating. 2,590,562, Mar. 25.

Nightingale, William J., Valparaiso, Ind. Diving board. 2,590,563, Mar. 25.

Nissen, Charles H., assignor of two-thirds to W. I. and H. H. Nissen, Fairview Township, Erie County, Pa. Concrete window frame and sash. 2,590,267, Mar. 25.

Nissen, Harley H., assignee: *See*—
Nissen, Charles H.

Nissen, Walter I., assignee: *See*—
Nissen, Charles H.

Noble, Robert R., assignee: *See*—
Pittenger, Harold W.

Noffsinger, Harold E., Salt Lake City, Utah. Screw holding screw driver. 2,590,564, Mar. 25.

Nord, Simon R., Jr., South Pasadena, and C. B. Brostedt, Los Angeles, Calif. Electrical comb. 2,590,447, Mar. 25.

Nordlund, Karl F., Edsviken, Sweden. Steam generator. 2,590,117, Mar. 25.

North American Geophysical Company, assignee: *See*—
Cloud, Raymond T.

North American Rayon Corporation, assignee: *See*—
Bley, Rudolph S.

Northwestern Steel and Wire Company, assignee: *See*—
Vorderstrasse, Rudolph C.

Norton, Charles L., Jr., New York, N. Y., assignor to The Babcock & Wilcox Company, Rockleigh, N. J. Material discharge mechanism. 2,590,202, Mar. 25.

Novak, Joseph E., Berwyn, Ill. Mower cutter bar guard. 2,590,788, Mar. 25.

Novo Terapeutisk Laboratorium A/S, assignee: *See*—
Hallas-Moller, Knud, and Petersen.

Noxon, Paul A., Tenafly, assignor to Bendix Aviation Corporation, Teterboro, N. J. Orientation system. 2,590,428, Mar. 25.

Noyes, Everett E., assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Wire connector. 2,590,789, Mar. 25.

Oakite Products, Inc., assignee: *See*—
Johnson, Le Baron B., and Geh.

Oddo, Vincent J., Jr., Providence, R. I. Mouthpiece. 2,590,118, Mar. 25.

Ohio Rubber Company, The, assignee: *See*—
Meyers, George L., and Shutt.

Ohio State University Research Foundation, The, assignee: *See*—
Wolfram, Melville L., and Olin.

Olin, Stephano M.: *See*—
Wolfram, Melville L., and Olin.

Orchin, Milton: *See*—
Feldman, Julian, and Orchin.

Orr, John H., assignor to Carbodies Limited, Coventry, England. Movable window for vehicles. 2,590,448, Mar. 25.

Orr, Malcolm A.: *See*—
Egeberg, Birger, Orr, and Phaneuf.

Ortho Pharmacentical Corporation, assignee: *See*—
Willis, Sumner C.

Osborn, Alden E., Mount Vernon, N. Y. Pipe joint. 2,590,565, Mar. 25.

Osborn, Elburt F., State College, assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa. Hydrothermal synthesis of forsterite. 2,590,566, Mar. 25.

Osborne, Charles V., Wise, Va. Car wheel. 2,590,567, Mar. 25.

Osterhus, Ervin J., assignor, by mesne assignments, of thirty one-hundredths to R. R. Roemer, thirty-five one-hundredths to L. E. Roemer, twenty-five one-hundredths to W. R. Kiefer, and ten one-hundredths to J. E. Tompkins, Cleveland, Ohio. Power-operated radial sawing machine. 2,590,119, Mar. 25.

Otis, Nelson G., Bay Village, assignor to H. M. Warner, Olmstead Falls, Ohio. Wheel aligning device. 2,590,722, Mar. 25.

Otto, Julian A., Long Island City, assignor to Allied Chemical & Dye Corporation, New York, N. Y. Cation exchange resins. 2,590,449, Mar. 25.

Owren, Erling, Foster, and E. Karolczuk, Coventry, R. I.; said Karolczuk assignor to said Owren. Textile printing. 2,590,643, Mar. 25.

Palmer, George J., Long Beach, Calif. Defectively labeled and nonlabeled can detecting device. 2,590,343, Mar. 25.

Pangborn Corporation, assignee: *See*—
Huyett, Robert B.
Rosenberger, William A., and Keefer.

Panoramic Laboratories, assignee: *See*—
Wallace, Marcel.

Parker Appliance Company, The, assignee: *See*—
Hartley, Emmett C.

Parsons, John B., Toledo, Ohio. Mounting clip for regulators. 2,590,450, Mar. 25.

Pastore, Michele C., Visalia, Calif. Olive pitter. 2,590,268, Mar. 25.

Pattat, Harlow M.: *See*—
Crossley, Royal E., and Pattat.

Patterson, Morehead, New York, N. Y., assignor to American Machine and Foundry Company. Bowling ball lifting apparatus. 2,590,644, Mar. 25.

Pauly, Jacob L.: *See*—
Holmes, Bradford B., and Pauly.

Paxton, John W.: *See*—
Hurst, Edmund E., and Paxton.

Pelton Water Wheel Company, The, assignee: *See*—
Rued, Fred H.

Pennsylvania Railroad Company, The, assignee: *See*—
Steins, Carleton K.

Perks, Joseph H., Sr., Henrico County, Va. Rerailer. 2,590,344, Mar. 25.

Perry, George L., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Metalworking lubricant. 2,590,451, Mar. 25.

Pestarini, Joseph M., Staten Island, N. Y. Speed control system. 2,590,120, Mar. 25.

Peters, Harry, and C. D. Pierson, assignors to The Raymond Bag Company, Middletown, Ohio. Sleeve for bag valves. 2,590,568, Mar. 25.

Petersen, Gerald A., San Francisco, Calif. Traveler. 2,590,645, Mar. 25.

Petersen, Karl: *See*—
Hallas-Moller, Knud, and Petersen.

Peterson, Albin K., Redondo Beach, Calif. Mechanical razor. 2,590,452, Mar. 25.

Peterson, Vincent C., assignor to Harper-Wyman Company, Chicago, Ill. Gas valve. 2,590,569, Mar. 25.

Petit, William H., Pasadena, Calif. Gear testing and finishing machine. 2,590,203, Mar. 25.

Pettibone, Elmer K., San Francisco, Calif. Cocoa processing and products. 2,590,646, Mar. 25.

Pettibone, Elmer K., San Francisco, Calif. Soybean powder bases and products. 2,590,647, Mar. 25.

Pettit, Dorn L., assignor to Square D Company, Milwaukee, Wis. Control system for hoist motors. 2,590,453, Mar. 25.

Pettman, Albert V., Epsom, Auckland, New Zealand. Rotary cultivating tool. 2,590,790, Mar. 25.

Pfuntner, Richard A.: *See*—
Sinks, Allen T., Pfuntner, and Gabrielson.

Phaneuf, Jean P.: *See*—
Egeberg, Birger, Orr, and Phaneuf.

Phelan, Thomas H.: *See*—
Rackey, Chester A., and Phelan.

Philco Corporation, assignee: *See*—
Bradley, William E.
Moulton, Stephen W.

Phillips, Hardy K., Morganton, N. C. Acoustical Venetian blind. 2,590,204, Mar. 25.

Phillips Petroleum Company, assignee: *See*—
Benedict, Bruce C.
Garretson, Owen L.
Henneman, Clarence O.
Hudson, Thomas R.

Photoswitch Incorporated, assignee: *See*—
Giuffrida, Philip.

Pierce, Frederick E., Hanover, N. H. Storing and recovering peat. 2,590,205, Mar. 25.

Pierce, John B., Foundation, assignee: *See*—
Rapp, George M.

Pierson, Clyde D.: *See*—
Peters, Harry, and Pierson.

Pike, David P.: *See*—
Dent, Robert C., D. P. and P. V. Pike.

Pike, Paul V.: *See*—
Dent, Robert C., D. P. and P. V. Pike.

Pike, Robert D., Greenwich, Conn. Apparatus for water ice refrigeration. 2,590,269, Mar. 25.

Pilch, John S., Ware, Mass. Hydraulic by-pass system and valve therefor. 2,590,454, Mar. 25.

Piper, Chester L.: *See*—
Koons, John C., and Piper.

Pittenger, Harold W., Los Angeles, assignor to R. R. Noble, San Diego, Calif. Micrometer height gauge. 2,590,455, Mar. 25.

Pitz, Carl A., assignor, by mesne assignments, to A. L. Langenfeld, Inc., New Holstein, Wis. Slotted sole sandal. 2,590,648, Mar. 25.

Pneuman, James I., Oneida, and J. L. Foote, assignors to J. de Beer & Son, Albany, N. Y. Machine for printing on spherical objects. 2,590,456, Mar. 25.

Pneumatic Scale Corporation, Limited, assignee: *See*—
Howard, Stanley R., and Vergobbi.

Polaroid Corporation, assignee: *See*—
Fairbank, Murry N.
Fairbank, Murry N., and Rosenblum.
Land, Edwin H.

Pollak Luminescent Corporation, assignee: *See*—
Isenberg, Sampson.

Polo, Dagoberto M., and A. G. Alarcon, Mexico City, Mexico. Preparation of lysozyme from ass milk. 2,590,121, Mar. 25.

Polytechnic Institute of Brooklyn, assignee: *See*—
Weber, Ernst, and Johnson.

Poulit, Robert, Lyon, assignor to Societe Industrielle Generale De Mecanique Appliquee (S. I. G. M. A.) Villeurbanne (Rhone), France. Jet propulsion device for air-screws or rotary wings. 2,590,457, Mar. 25.

Power Jets (Research & Development), Limited, assignee: *See*—
Joyce, John R.
Martin, Peter.

Pratt, Robert J., assignor of fifty per cent to J. Cocke, Fort Worth, Tex. Cooking vessel. 2,590,270, Mar. 25.

Prickett, Mona E., assignee: *See*—
Prickett, Wilbur W.

Prickett, Wilber W., assignor of one half to M. E. Prickett, San Diego, Calif. Measuring and dispensing apparatus for containers. 2,590,458, Mar. 25.

Pudark, Arthur, and H. Rapaport, assignors to Rapaport Brothers, Inc., Chicago, Ill. Toy bank. 2,590,271, Mar. 25.

Pudelko, Richard, Zug, Switzerland, assignor to Landis & Gyr, A. G. Maximum demand meter. 2,590,459, Mar. 25.

Putnam, Stearns T., assignor to Hercules Powder Company, Wilmington, Del. Preparation of stabilized tall oil nitriles. 2,590,570, Mar. 25.

Putnam, Stearns T., assignor to Hercules Powder Company, Wilmington, Del. Preparation of stabilized tall oil amines. 2,590,571, Mar. 25.

Quam, Ranold F., Milwaukee, Wis. Vessel filling valve. 2,590,206, Mar. 25.

Rackey, Chester A., Crestwood, N. Y., and T. H. Phelan, Maywood, N. J., assignors to Radio Corporation of America. Sound level and sound integrating device. 2,590,460, Mar. 25.

Radio Corporation of America, assignee: *See*—
Anderson, Leslie J.
Breleford, Harlin A.
Castle, Donald H.
Epstein, David W.
Forgue, Stanley V.
Fredendall, Gordon L., and Schroeder.
Hanchett, George D., Jr.
Hansel, Clarence W.
Haun, Arnold H.
Rackey, Chester A., and Phelan.
Salkial, George C., and Bedford.

Rambert, Raymond L.: *See*—
Meyer, Jean G. A. M. J., and Rambert.

Ramsay, Adelaide H.: *See*—
Ramsay, Samuel R. and A. H.

Ramsay, Samuel R. and A. H., Santa Cruz, Calif. Automatic roll control for ships or the like. 2,590,207, Mar. 25.

Randol, Glenn T., Muncie, Ind. Fluid actuated motor control valving. 2,590,122, Mar. 25.

Rapaport Brothers, Inc., assignee: *See*—
Pudark, Arthur, and Rapaport.

Rapaport, Herman: *See*—
Pudark, Arthur, and Rapaport.

Rapp, George M., New Haven, Conn., assignor to J. B. Pierce Foundation, New York, N. Y. Building construction and structural units therefor. 2,590,123, Mar. 25.

Ras, Max, Zurich, Switzerland. Cylinder dampener for offset-printing machines. 2,590,429, Mar. 25.

Rasch, Louis E., Brainerd, Minn. Fish lure. 2,590,461, Mar. 25.

Rasmussen, Luther L., Edinburg, Ind. Bracelet mounting for watches. 2,590,572, Mar. 25.

Rasmussen, Theodore E., Scottsbluff, Nebr. Spring suspension means for vehicles. 2,590,791, Mar. 25.

Rassenfoss, Albert J., Kenilworth, Ill. Garment protecting bag. 2,590,462, Mar. 25.

Ray, William B., Pensacola, Fla. Antiglare attachment for vehicles. 2,590,463, Mar. 25.

Raymond, Antonin, New York, N. Y., assignor to National Steel Corporation. Airplane hangar. 2,590,464, Mar. 25.

Raymond Bag Company, The, assignee: *See*—
Peters, Harry, and Pierson.

Raytheon Manufacturing Company, assignee: *See*—
Turner, Edwin E., Jr.

Read Standard Corporation, assignee: *See*—
Rhodes, Herbert C.

Redmond, John A.: *See*—
Kincaid, Homer F., Graham, and Redmond.

Reed, George: *See*—
Dale, Vernon F., and Reed.

Reeder, William H., III, Olean, N. Y., assignor to Clark Bros. Co., Inc. Partial oxidation of hydrocarbons using gaseous sulfur trioxide. 2,590,124, Mar. 25.

Reichert, Carl, Fort Wayne, Ind. Bale ejector. 2,590,649, Mar. 25.

Reid, Colin C.: *See*—
Robinson, Preston, and Reid.

Remington Rand Inc., assignee: *See*—
Devol, George C.

Reneer, Charles R., Paintsville, Ky. Slidable side jaw wrench. 2,590,792, Mar. 25.

Reppert, Richard V., Rochester, N. Y. Differential actuating mechanism. 2,590,345, Mar. 25.

Research Engineering & Manufacturing, Inc., assignee: *See*—
Brown, Frank K.

Rhodes, Herbert C., Portland, Oreg., assignor to Read Standard Corporation. Automatic dough panning machine. 2,590,823, Mar. 25.

Riat, Henri, and H. Mayer, assignors to Ciba Limited, Basel, Switzerland. Cupriferous disazo-dyestuffs. 2,590,346, Mar. 25.

Richardson, Max S.: *See*—
Bredehoft, Harold A., and Richardson.

Rickert, Hans F., Leverkusen-Bayerwerk, E. Stein, Leverkusen, and O. Bayer, Leverkusen-Bayerwerk, assignors to Farbenfabriken Bayer, Leverkusen, Germany. Preparing cyclohexene. 2,590,208, Mar. 25.

Rider, Harry N., assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Pneumatically actuated valve controlling apparatus. 2,590,347, Mar. 25.

Rider, Harry N., assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Foam injection sprinkler system. 2,590,348, Mar. 25.

Rider, Harry N., assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Foam injection sprinkler system with anticontamination connections. 2,590,349, Mar. 25.

Ridge, Bertram P.: *See*—
Hall, John D. H., Ridge, and Whinfield.

Rigstad, William W., assignor of 40 per cent to R. J. Haynes, Detroit, Mich. Utility shelf for laundry tubs. 2,590,793, Mar. 23.

Rinia, Herre, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Piston apparatus comprising a bell crank cam drive. 2,590,573, Mar. 25.

Ris, Kenneth B., Garden City, assignor to The Griscom Russell Company, New York, N. Y. Heat exchanger. 2,590,465, Mar. 25.

Risse, John T., Eldora, Iowa. Hydraulic master cylinder. 2,590,430, Mar. 25.

Robbins & Myers, Inc., assignee: *See*—
Byram, Frederick C., and Chang.
Chang, Sheldon S. L.

Roberts, Elliott J., Westport, assignor to The Dorr Company, Stamford, Conn. Fractionation of amino acid mixtures. 2,590,209, Mar. 25.

Robertson, H. H., Company, assignee: *See*—
Crafton, Henry H.

Robertson, John A., Albuquerque, N. Mex., and E. A. Rock, Mercer Island, assignors to Boeing Airplane Company, Seattle, Wash. Adjustable jet orifice. 2,590,272, Mar. 25

Robins, Seymour, New York, N. Y. Envelope with hanger support. 2,590,273, Mar. 23.

Robinson, Marion B., Great Neck, N. Y. Steering means for vehicles. 2,590,574, Mar. 25.

Robinson, Preston, Williamstown, Mass., and C. C. Reid, Falls Church, Va., assignors to Sprague Electric Company, North Adams, Mass. Electrical condenser. 2,590,650, Mar. 25.

Robinson, Richard A., Morton Grove, and J. W. Cusic, assignors to G. D. Searle & Co., Skokie, Ill. 10-(quaternary-ammonium alkyl) phenothiazine salts 2,590,125, Mar. 25.

Robinson, Richard A., Morton Grove, assignor to G. D. Searle & Co., Skokie, Ill. Quaternary ammonium salts of 2,6-lupetidine. 2,590,126, Mar. 25.

Robson, Homer L., Lewiston, N. Y., assignor to Mathieson Chemical Corporation. Stable lithium hypochlorite composition. 2,590,794, Mar. 25.

Rock, John A.: *See*—
Robertson, John A., and Rock.

Rockford Machine Tool Company, assignee: *See*—
Herrstrum, Rudolph E.

Rockledge Manufacturing Company, assignee: *See*—
Weaklend, Walter L.

Roehrl, Bruno C., assignor to National Organ Supply Company, Erie, Pa. Battery. 2,590,824, Mar. 25.

Roemer, Louise E., assignee: *See*—
Duerr, Carl F., Jr.
Osterhus, Ervin J.

Roemer, Ralph R., assignee: *See*—
Duerr, Carl F., Jr.
Osterhus, Ervin J.

Roeper, Paul M., Paris, France. Device relative to color television. 2,590,350, Mar. 25.

Roes, Carl W., Pikesville, Md. Fishing spoon hook mounting. 2,590,723, Mar. 25.

Rogers Brothers Corporation, assignee: *See*—
Keesler, Clyde C.
Rogers, Hugh L.

Rogers, Gardiner M., Ithaca, N. Y. Fuel injector. 2,590,575, Mar. 25.

Rogers, Hugh L., assignor to Rogers Brothers Corporation, Albion, Pa. Detachable fluid pressure operated gooseneck for trailers. 2,590,210, Mar. 25.

Rolls-Royce Limited, assignee: *See*—
Mordell, Donald L., and Holliday.

Rose, Le Roy, Bradenton, Fla. Water aerator and filter. 2,590,431, Mar. 25.

Rosenberg, David S., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y. After-chlorination of polyvinyl chloride. 2,590,651, Mar. 25.

Rosenberger, William A., and W. L. Keefer, Hagerstown, Md., assignors to Pangborn Corporation. Abrading apparatus. 2,590,576, Mar. 25.

Rosenblum, Louis: *See*—
Fairbank, Murry N., and Rosenblum.

Rourke, Terrence A., Joliette, Quebec, assignor to Gypsum, Lime and Alabastine, Canada, Limited, Toronto, Ontario, Canada. Blasting switch. 2,590,274, Mar. 25.

Rowe, John: *See*—
Gillies, John, and Rowe.

Royal Typewriter Company, Inc., assignee: *See*—
Kupper, William H.

Rued, Fred H., Lafayette, assignor to The Pelton Water Wheel Company, San Francisco, Calif. Multistage sleeve valve. 2,590,466, Mar. 25.

Ruemelin, Richard, Milwaukee, Wis. Welding cabinet. 2,590,577, Mar. 25.

Rugar, George F., Willoughby, assignor to Diamond Alkali Company, Cleveland, Ohio. Flameproof thermoplastic molding compositions. 2,590,211, Mar. 25.

Rumpel, Harvey H., Whitefish Bay, assignor to Smith Engineering Works, Milwaukee, Wis. Gyratory crusher. 2,590,795, Mar. 25.

Russell, Clarence J., Churchton, Md. Magazine wrapping machine. 2,590,351, Mar. 25.

Ruston & Hornsby Limited, assignee: *See*—
Felden, Geofrey B. R.

Ruth, Joseph P., Denver, Colo. Sugar diffusing apparatus. 2,590,578, Mar. 25.

Ruthven, James, Jr., Rockland, and R. G. Harrison, North Quincy, Mass. Insulated box. 2,590,724, Mar. 25.

Ryan, Alden H.: *See*—
Hagen, John P., and Ryan.

Ryder, Frank A., Chicago, Ill., and M. H. Weeks, deceased, by F. Weeks, administratrix, Oakland, Calif. Fluid meter. 2,590,275, Mar. 25.

Sacks, Milton D., New York, N. Y. Children's wheeled toy. 2,590,467, Mar. 25.

Sadgebury, Herman F., and R. N. Ward, assignors to The Egry Register Company, Dayton, Ohio. Speed feed manifolding attachment for typewriters. 2,590,652, Mar. 25.

Safway Steel Products, Inc., assignee: *See*—
Grosch, George S.

Salt, Francis E.: *See*—
Hawkins, Edwin G. E., and Salt.

Samuels, Abe O., assignor to Casco Products Corporation, Bridgeport, Conn. Heating pad. 2,590,212, Mar. 25.

Sandberg, Oscar, Defiance, Ohio, assignor to Lynch Corporation, Anderson, Ind. Package end sealing mechanism. 2,590,127, Mar. 25.

Sandberg, Oscar, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind. Wrapping generally cylindrically shaped articles. 2,590,128, Mar. 25.

Sandor, George N., Mexico City, Mexico. Preparing concentrated vat acids. 2,590,213, Mar. 25.

Sanford, Roy S., Woodbury, assignor to The Autoyre Company, Incorporated, Oakville, Conn. Feeding mechanism for automatic guns. 2,590,214, Mar. 25.

Sänger, Otto, assignor to E. Leitz, G. m. b. H., Wetzlar, Germany. Microtomes. 2,590,725, Mar. 25.

Sanner, Weldon E., Rockwood, and R. W. Decker, Garrett, Pa. Ditch digger. 2,590,352, Mar. 25.

Sarazin, Gilles F., Paris, France. Torsional vibration damper. 2,590,579, Mar. 25.

Sausa, Frank C., Englewood, Colo. Variable throat restricter valve. 2,590,215, Mar. 25.

Sauter, John D.: *See*—
Few, William, Sauter, and Szabo.

Sawaya, George K., Hammond, La. Transversely folding bed. 2,590,129, Mar. 25.

Sawyer, Marion B., Sr., Whittier, Calif. Orchard or lawn sprinkler 2,590,726, Mar. 25.

Scalera, Mario, Somerville, and H. W. Stewart, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y. Preparing anthrimides. 2,590,823, Mar. 25.

Schaar, Charles H., Chicago, and G. J. Zilligen, Hazelcrest, Ill. Washing apparatus. 2,590,353, Mar. 25.

Schaffer, Herman W., Erie, Pa., assignor to General Electric Company. Brush mechanism. 2,590,796, Mar. 25.

Schenck, Remsen T., Lower Mount Bethel Township, Northampton County, Pa., assignor to the United States of America as represented by the United States Atomic Energy Commission. Oscillator controlled relay circuit. 2,590,826, Mar. 25.

Schermuly, Joseph J., Wichita, Kans. Thrust bearing for disk plows. 2,590,468, Mar. 25.

Scheu, Carl F.: *See*—
Walley, Omar C., and Scheu.

Schiavone, Edward L., Silver Spring, Md., assignor of one-half to B. J. Chromy, Washington, D. C. High-frequency corn popping apparatus. 2,590,580, Mar. 25.

Schlesinger, Max A., New York, N. Y. Apparatus for projecting images from television receivers. 2,590,130, Mar. 25.

Schmidt, Paul: *See*—
Druey, Jean, and Schmidt.

Schmutzler, Alfred F., Teaneck, N. J., assignor to American Cyanamid Company, New York, N. Y. Tall oil modified alkyd resins and preparing the same. 2,590,653, Mar. 25.

Schmutzler, Alfred F., Teaneck, N. J., assignor to American Cyanamid Company, New York, N. Y. Printing ink from tall oil modified alkyd resins. 2,590,654, Mar. 25.

Schmutzler, Alfred F., Teaneck, N. J., assignor to American Cyanamid Company, New York, N. Y. Modified tall oil esters and preparing the same. 2,590,655, Mar. 25.

Schnebel, Verne H., Clark Township, assignor to Merck & Co., Inc., Rahway, N. J. Safety valve. 2,590,656, Mar. 25.

Schonstedt, Erick O., Minneapolis, Minn. Anchoring and connecting means for strain-cored electrical cables. 2,590,131. Mar 25.

Schroeder, Alfred C.: *See*—
Fredendall, Gordon L., and Schroeder.

Schroeder, John W.: *See*—
Snyder, Cyrus L., and Schroeder.

Schuhfried, Felix, Vienna, Austria. Device for producing electric pulses, particularly for medical purposes. 2,590,216, Mar. 25.

Schumann, Konrad H. H., Lyttelton, Pretoria, Transvaal, Union of South Africa. Instructional device. 2,590,469, Mar. 25.

Schwarz, Gerald L., Cleveland Heights, Ohio. Furnace thermometer. 2,590,276, Mar. 25.

Scognamillo Engineering Company, assignee: *See*—
Scognamillo, Frank.
Scognamillo, Salvatore.

Scognamillo, Frank, Bronx, assignor to Scognamillo Engineering Company, New York, N. Y. Rotor cylinder rotary device. 2,590,132, Mar. 25.

Scognamillo, Frank, assignor to Scognamillo Engineering Company, Bronx, N. Y. Self-contained rotary device. 2,590,727, Mar. 25.

Scognamillo, Frank, Fair Lawn, N. J., assignor to Scognamillo Engineering Company, Bronx, N. Y. Rotary pump. 2,590,728, Mar. 25.

Scognamillo, Salvatore, assignor to Scognamillo Engineering Company, Bronx, N. Y. Rotary compressor. 2,590,729, Mar. 25.

Scognamillo, Salvatore, assignor to Scognamillo Engineering Company, Bronx, N. Y. Blade driven rotary pump. 2,590,730, Mar. 25.

Seago, Alfred C.: *See*—
Henderson, Lee R., and Seago.

Seale, Homer T.: *See*—
Lockheed, Allan H., and Seale.

Searle, G. D., & Co., assignee: *See*—
Burtner, Robert R.
Burtner, Robert R., and Arbit.
Robinson, Richard A.
Robinson, Richard A., and Cusic.

Security Machine Products Company, assignee: *See*—
Green, Edward A.

Seifter, Joseph: *See*—
Abell, Liese L., Bruce, and Seifter.

Shaffer, Chester E., Arlington, N. J., and A. B. Fisher, Jr., Wilkinsburg, assignors to Koppers Company, Inc., Pittsburgh, Pa. Stoking apparatus fuel storage bin and conveyer. 2,590,133, Mar. 25.

Shawhan, Sam F., assignor to Carrier Corporation, Syracuse, N. Y. Reducing noises in refrigeration systems. 2,590,731, Mar. 25.

Shell Development Company, assignee: *See*—
Luten, Daniel B., Jr.
Perry, George L.

Shepard, Carl F., Chicago, Ill. Bedside reading device. 2,590,657, Mar. 25.

Sherer-Gillett Company, assignee: *See*—
Merkle, Arthur G., and Eldridge.

Sherriff, Fred: *See*—
Turner, George L., and Sherriff.

Shirley, Dwight W., Cumberland, Wis. Device for aerating water. 2,590,581, Mar. 25.

Shutt, John C.: *See*—
Meyers, George L., and Shutt.

Siciliano, Anthony C., Wesleyville, Pa., assignor to General Electric Company. Low-pressure drop fluid duct bend. 2,590,797, Mar. 25.

Silvius, Paul, Murrysville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Rotary electric switch. 2,590,658, Mar. 25.

Simancik, Frank M., Detroit, Mich. Book tray. 2,590,732, Mar. 25.

Sinclair Refining Company, assignee: *See*—
Nelson, John W.
Teter, John W., and Nelson.

Sinks, Allen T., deceased, Beach Bluff; by A. C. Sinks, administratrix, and R. A. Pfuntner, Saugus, and S. Gabrielson, South Lynnfield, Mass., assignors to General Electric Company. Gyroscopic direction indicator. 2,590,798, Mar. 25.

Sinks, Anna C., administratrix: *See*—
Sinks, Allen T., Pfuntner, and Gabrielson.

Skalkeas, Basil G., Lowell, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Compositions and methods for processing textile fibers. 2,590,659, Mar. 25.

Skocic, John M., Lowellville, Ohio. Barbecuing machine. 2,590,470, Mar. 25.

Skok, Sergius, St. Albans, N. Y., assignor to Burndy Engineering Company, Inc. Supporting clip. 2,590,277, Mar. 25.

Skoog, Robert W., Borger, Tex., and I. Drogin, assignors to United Carbon Company, Inc. (Maryland), Charleston, W. Va. Apparatus for the manufacture of carbon black. 2,590,660, Mar. 25.

Sloan Valve Company, assignee: *See*—
Bellamy, John I.

Slonneger, John C., assignor to The Continental Supply Company, Dallas, Tex. Internal-combustion engine. 2,590,134, Mar. 25.

Slonneger, John C., assignor to The Continental Supply Company, Dallas, Tex. Safety device for cooling systems. 2,590,135, Mar. 25.

Slyk, Stanley S., Chicago, Ill. Oil check for piston rings. 2,590,278, Mar. 25.

Smith Engineering Works, assignee: *See*—
Rumpel, Harvey H.

Smith, Harry F., Lexington, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio. Close-coupled water closet. 2,590,471, Mar. 25.

Snyder, Cyrus L., Hawthorne, and J. W. Schroeder, Los Angeles, assignors to L. M. Hursh, San Marino, Calif. Combined air filter and needle valve. 2,590,217, Mar. 25.

Societe Anonyme Dite: Forges & Ateliers De Constructions Electriques De Jeumont, assignee: *See*—
Delastre, Jean, Galzin, and Letrilliart.

Societe dite: Etablissements & Laboratoires Georges Truffaut, assignee: *See*—
Hampe, Pierre.

Societe Industrielle Generale De Mecanique Appliquee (S. I. C. M. A.), assignee: *See*—
Poult, Robert.

Society S. A. T. A. M. Societe Anonyme Pour Tous Appareillages Mecaniques: *See*—
Meyer, Jean G. A. M. J., and Rambert.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Groenendyke, Goethe M.
McLoad, Kenneth W.
Minton, John P.

Solomon, Ernest: *See*—
Burton, William P., and Solomon.

Solowey, Sol, Merrick, N. Y. Suture package holder. 2,590,799, Mar. 25.

Soper, Guy E., New Brunswick, and H.-E. E. Christenson, Florham Park, N. J., assignors to Mack Manufacturing Corporation, New York, N. Y. Hydraulic transmission. 2,590,472, Mar. 25.

Soss, Mark, Spokane, Wash. Bubbling liquid toy. 2,590,279, Mar. 25.

Speed-Meal Corporation, assignee: *See*—
Holbik, Frank J.

Spolek pro chemickou a hutni vyrobu, narodni podnik, assignee: *See*—
Ettel, Viktor.

Sprague Electric Company, assignee: *See*—
Robinson, Preston, and Reid.

Square D Company, assignee: *See*—
Pettit, Dorn L.

Stabler, Howard P.: *See*—
Milliman, Jacob, and Stabler.

Stacey, Ernest W., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Outsole roughing machine. 2,590,136, Mar. 25.

Stadum, Clarence B., Buffalo, and W. E. Large, Tonawanda, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Welding control. 2,590,582, Mar. 25.

Stamm, Robert F., Stamford, Conn., and T. Mariner, Mount Joy, Pa., assignors to American Cyamid Company, New York, N. Y. Turbidimeter. 2,590,827, Mar. 25.

Star Electronics, Inc., assignee: *See*—
McKnight, Joseph H.

Stell, Donald F., Dodgeville, Wis. Tractor hitch. 2,590,218, Mar. 25.

Stein, Eberhard: *See*—
Rickert, Hans F., Stein, and Bayer.

Steins, Carleton K., Merion, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Locomotive. 2,590,473, Mar. 25.

Stengel, Leonard A., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Separation of hydrogen chloride from nitric acid. 2,590,828, Mar. 25.

Stephanoff, Nicholas N., Bryn Mawr, Pa., assignor, by mesne assignments, to C. H. Wheeler Manufacturing Company. Effecting chemical reactions. 2,590,219, Mar. 25.

Stephanoff, Nicholas N., Bryn Mawr, assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa. Apparatus for treating materials in suspension in elastic fluid. 2,590,220, Mar. 25.

Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Variable-speed transmission. 2,590,800, Mar. 25.

Stevens, Samuel S., Plattsburgh, assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y. Receptacle and making the same. 2,590,221, Mar. 25.

Stewart, Hugh W.: *See*—
Scalera, Mario, and Stewart.

Stillman, Albert L., Plainfield, N. J., assignor to Fuel Research Corporation, New York, N. Y. Molybdenum-containing fertilizer. 2,590,474, Mar. 25.

Stillman, Albert L., Plainfield, N. J., assignor to Fuel Research Corporation, New York, N. Y. Manufacture of stable suspensions of coal particles. 2,590,733, Mar. 25.

Stoltenberg, Delbert H., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Parking valve for expansible chamber windshield wiper motors. 2,590,475, Mar. 25.

Stough, Turney H., Jeannette, Pa. Candy containing musical toy telephone. 2,590,476, Mar. 25.

Stromberg-Carlson Company, assignee: *See*—
Thompson, Moody C., Jr.

Strong, Basil P., assignor to Atwater-Strong Company, Atwater, Ohio. Leaf machine. 2,590,734, Mar. 25.

Stuellein, William H.: *See*—
Ludwig, Leon R., Stuellein, and Gamel.

Stuyvesant Engineering Company, assignee: *See*—
Fenno, Joseph E.

Sunbeam Corporation, assignee: *See*—
Koel, Ludvik J.
Loomer, Morris W.

Svensjö, Nils E., Nockeby, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal bowl for separating sludge from liquids. 2,590,735, Mar. 25.

Sweet, Monroe H.: *See*—
Williford, Edward A., and Sweet.

Sweet, Richard A., assignee: *See*—
Triplett, Lee.

Swift, Clifford L., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,590,280, Mar. 25.

Symington-Gould Corporation, The, assignee: *See*—
Barrows, Donald S.

Szabo, William F.: *See*—
Few, William, Sauter, and Szabo.

Sziklai, George C., and A. V. Bedford, Princeton, N. J., assignors to Radio Corporation of America. Television film scanner. 2,590,281, Mar. 25.

Tacalemit, Societe Anonyme, assignee: *See*—
Duwos, André.

Tandler, William S., D. S. Walker, and F. A. de Weiss, assignors to Vendomatic Machine Corporation, New York, N. Y. Device for dispensing books, packages, and the like. 2,590,736, Mar. 25.

Taylor, McKinley, Iraan, Tex. Piston type differential pressure gauge for rate of flow indicators. 2,590,583, Mar. 25.

Taylor, Raymond L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sea-water battery. 2,590,584, Mar. 25.

Taylor, Rollin W.: *See*—
Thompson, Walter E., Jr., and Taylor.

Technicon Cardiograph Corporation, assignee: *See*—
Lukacs, Joseph.

Temple, Robert, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del. Explosively actuated bonding tool. 2,590,585, Mar. 25.

Temple Velocity Equipment, Inc., assignee: *See*—
Temple, Robert.

Terrell Manufacturing Company, Inc., assignee: *See*—
Nealy, William G.

Teter, John W., Chicago, Ill., and J. W. Nelson, Hammond, Ind., assignors to Sinclair Refining Company, New York, N. Y. Grease composition. 2,590,801, Mar. 25.

Tevis, Hugh, assignee: *See*—
Janser, Arthur M. J., and Townsend.

Theisen, John P.: *See*—
Farr, Edward A., and Theisen.

Thomas, George T., Denville, N. J. Cleaning apparatus for pipes and the like. 2,590,479, Mar. 25.

Thompson, Moody C., Jr., Washington, D. C., assignor to Stromberg-Carlson Company. Variable impedance device. 2,590,282, Mar. 25.

Thompson, Walter E., Jr., Watertown, and R. W. Taylor, Terryville, Conn., assignors to The Heminway & Bartlett Mfg. Co. Fish net formed of synthetic resin strands and strands therefor and producing same. 2,590,586, Mar. 25.

Thompson, William G., Clinton, Mass. Dispenser and applicator. 2,590,661, Mar. 25.

Three Dimension Company, assignee: *See*—
Bennett, Frank P., and Webb.

Timken-Detroit Axle Company, The, assignee: *See*—
Cook, Charles A.

Todd Company, Inc., The, assignee: *See*—
Neidich, George G.

Tomlin, Andrew, Hudson, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanization of rubber with aromatic sulfonamide activators. 2,590,737, Mar. 25.

Tompkins, J. Everette, assignee: *See*—
Duerr, Carl F., Jr.
Osterhus, Ervin J.

Towler, Frank H.: *See*—
Towler, John M. and F. H.

Towler, John M., Harrogate, and F. H. Towler, Otley, England. Antisurge control and exhaust valve for hydrulic apparatus. 2,590,137, Mar. 25.

Townsend, Charles S.: *See*—
Janser, Arthur M. J., and Townsend.

Tramblay, Robert, assignor to Houilleres du Bassin du Nord et du Pas de Calais, Douai, France. Pusher conveyor with sectional trough. 2,590,802, Mar. 25.

Trevaskis, Henry W., Solihull, assignor to Dunlop Rubber Company Limited, London County, England. Fluid pressure relay for brake mechanisms. 2,590,587, Mar. 25.

Triplett, Lee, Magna, assignor of one-third to J. L. Jones, and one-third to R. A. Sweet, Salt Lake City, Utah. Detachable latched electrical plug and socket connection. 2,590,354, Mar. 25.

Truffaut, Georges, assignee: *See*—
Hampe, Pierre.

Tru-Vue Company, assignee: *See*—
Mast, Gifford M., and Gannett.

Tsang, Sien M.: *See*—
Long, Robert S., and Tsang.

Tufts, William F., Atlanta, assignor to L. M. Leathers Sons, Athens, Ga. Slip resistant pants guard for coat hangers. 2,590,738, Mar. 25.

Turnbull, Frederick M., assignee: *See*—
Brown, Frank E.

Turner, Edwin E., Jr., West Roxbury, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company. Electric motor speed control system. 2,590,356, Mar. 25.

Turner, George L., and F. Sherriff, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Industrial truck. 2,590,355, Mar. 25.

Tweedales and Smalley (1920) Limited, assignee: *See*—
Hooper, Norbert.

Umbrella Machinery Corp., assignee: *See*—
Levin, Joseph.

Unger, Magnus, and M. H. Bates, Pittsfield, Mass., assignors to General Electric Company. Tank joint. 2,590,803, Mar. 25.

Union Manufacturing Company, assignee: *See*—
Church, Albert E.

Union Oil Company of California, assignee: *See*—
Berg, Clyde H. O.
Imhoff, Donald H., and Berg.

Unit Rig & Equipment Company, assignee: *See*—
Guier, William, and Carter.

United Carbon Company, Inc., (Maryland), assignee: *See*—
Skoog, Robert W., and Drogin.

United Chemical and Metallurgical Works, National Corporation, assignee: *See*—
Ettel, Viktor.

United Shoe Machinery Corporation, assignee: *See*—
Juhola, Carl.
Maeser, Mieth.
Miller, Lloyd G.
Stacey, Ernest W.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Loverde, Anthony.
Schenck, Remsen T.

U. S. Machine Corporation, assignee: *See*—
Winkler, Herman E.

Utility Appliance Corp., assignee: *See*—
Lehmann, Valentine C.

Van der Kolk, Hendrik, assignor to Bureau van Tongeren N. V., Heemstede, Netherlands. Cyclone separator. 2,590,480, Mar. 25.

Van Veen, Anton, Canton Center, Conn. Feeder for envelope stuffing machines. 2,590,222, Mar. 25.

Van Weenen, Franciscus L., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Crankshaft arrangement in a multicylinder V-type piston machine. 2,590,662, Mar. 25.

Varo Mfg. Co., Inc., assignee: *See*—
Holt, William J., Jr.

Vendomatic Machine Corporation, assignee: *See*—
Tandler, William S., Walker, and de Weiss.

Vergobbi, Robert W.: *See*—
Howard, Stanley R., and Vergobbi.

Vitale, Anthony S., Brooklyn, N. Y. Battery casing. 2,590,804, Mar. 25.

Vitale, Anthony S., Brooklyn, N. Y. Electronic rectifying circuits. 2,590,805, Mar. 25.

Vogel, Alvin R., Los Angeles, Calif. Telephone handset attachment. 2,590,481, Mar. 25.

Volk, Emil A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Energy absorbing stop. 2,590,482, Mar. 25.

Vols, Carl, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Track circuit apparatus using alternating current. 2,590,483, Mar. 25.

Vorderstrasse, Rudloph C., assignor to Northwestern Steel and Wire Company, Sterling, Ill. Wire feeding machine. 2,590,806, Mar. 25.

Voslamber, Berend J., Hoogkerk, assignor to N. V. Betonfabriek "De Meteoor," De Steeg, Netherlands. Striking lugs of headed form from a metal sheet. 2,590,807, Mar. 25.

Vulcan Corporation, assignee: *See*—
Clausing, George.

Wagner, Adam, assignor to Ernst Leitz, G. m. b. H., Wetzler, Germany. Curtain shutter camera with flash synchroniser attachment. 2,590,829, Mar. 25.

Wagner, Ernest A., Lordship, Conn., assignor to General Electric Company. Control system for laundry driers and the like. 2,590,808, Mar. 25.

Wagner, Hugo, and R. Anderson, Seattle, Wash. Orthopedic bone aligning and fixing mechanism. 2,590,739, Mar. 25.

Walker, David S.: *See*—
Tandler, William S., Walker, and de Weiss.

Walker, Eugene J., Beaver, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit breaker. 2,590,663, Mar. 25.

Wallace, David A., Grosse Pointe Farms, Mich., and P. E. Wallace, Omaha, Nebr., assignors, by mesne assignments, to said D. A. Wallace. Structure. 2,590,588, Mar. 25.

Wallace, Marcel, assignor, by mesne assignments, of one-half to said Wallace doing business as Panoramic Laboratories, East Portchester, Conn. Variable selectivity panoramic system. 2,590,809, Mar. 25.

Wallace, Paul E.: *See*—
Wallace, David A. and P. E.

Walley, Omar C., Cleveland, and C. F. Scheu, Lakewood, assignors to Jack & Heints Precision Industries, Inc., Cleveland, Ohio. Electrical regulator. 2,590,223, Mar. 25.

Walsh, Philip J., San Francisco, Calif. Gravity meter. 2,590,740, Mar. 25.

Warchalowski, Boleslaw, Amsterdam, assignor of forty-five per cent to T. Lorenc, Herkimer, N. Y. Airplane with auxiliary lift means. 2,590,589, Mar. 25.

Ward, Robert N.: *See*—
Sadgebury, Herman F., and Ward.

Wark, Robert, Irvine, Scotland, assignor to Imperial Chemical Industries Limited. Self-combustible solid charge operated engine starter. 2,590,432, Mar. 25.

Warner, Helen M., assignee: *See*—
Otis, Nelson G.

Watkins, John E., Maywood, Ill. Liquid return trap in refrigerating systems. 2,590,741, Mar. 25.

Weakland, Walter L., Platte City, Mo., assignor to Rockledge Manufacturing Company. Seat cover. 2,590,664, Mar. 25.

Weaver, John L., Encinitas, Calif. Multiple spindle drill apparatus. 2,590,283, Mar. 25.

Webb, Albert E.: *See*—
Bennett, Frank P., and Webb.

Webb, Richard H.: *See*—
Craig, Floyd B., and Webb.

Weber, Ernst, Mount Vernon, and S. A. Johnson, New York, assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y. Bolometer. 2,590,477, Mar. 25.

Weeks, Fern, administratrix: *See*—
Ryder, Frank A., and Weeks.

Weeks, Milton H.: *See*—
Ryder, Frank A., and Weeks.

Weiller, Eugene W., Philadelphia, Pa. Frame made of paper. 2,590,357, Mar. 25.

Weinberg, Victor, Paris, France. Apparatus and method for molding prestressed concrete structural members. 2,590,478, Mar. 25.

Weiner, Louis I.: *See*—
Zimmerman, John, Wolf, and Weiner.

Western Electric Company, Incorporated, assignee: *See*—
Heckman, Edward A., and Kling.

Westinghouse Air Brake Company, assignee: *See*—
Vols, Carl.

Westinghouse Electric Corporation, assignee: *See*—
Bends, Waldemar I.
Berberich, Leo J., and Anderson.
Craig, Floyd B., and Webb.
Dyche, Howard E., Jr.
Dyer, Lloyd W., and Freese.
Edwards, Andrew W.
Esarey, Raymond W.
Frink, Russell E.
Godsey, Frank W., Jr.
Gunter, Frank B.
Jackson, Hagan L.
Kalaway, John A.
Kincaid, Homer F., Graham, and Redmond.
Lenehan, Bernard E.
Lessmann, Gerhard P.
Ludwig, Leon R., Stuellin, and Gamel.
Miller, Lawrence E.
Miner, John D., Jr., Austin, and Jessee.
Musk, Henry A.
Nielsen, Russell A.
Silvius, Paul.
Stadum, Clarence B., and Large.
Walker, Eugene J.
Winchester, Amos J., Jr., and King.
Yeoman, Frederick A.

Wettstein, Albert: *See*—
Miescher, Karl, Ehmann, and Wettstein.

Wetzel, Frank O.: *See*—
Linden, Carl E., and Wetzel.

Wheeler, C. H., Manufacturing Company, assignee: *See*—
Stephanoff, Nicholas N.

Whinfield, John R.: *See*—
Hall, John D. H., Ridge, and Whinfield.

White, Leeds C., Jr.: *See*—
Dosser, Robert C., and White.

Wiegand, Edwin L., Company, assignee: *See*—
Jones, Robert L.

Wilke, Milton E., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Electric terminal for dry batteries. 2,590,284, Mar. 25.

Willard Storage Battery Company, assignee: *See*—
Homan, John.

Williams, Alfred L. W., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Stopping device for tape in magnetic recorders. 2,590,665, Mar. 25.

Williams, Bill D., Evansville, Ind. Packaging of nails and the like. 2,590,358, Mar. 25.

Williams, Henry S., Sharon, Pa. Apparatus for wrapping potted plants. 2,590,742, Mar. 25.

Williford, Edward A., and M. H. Sweet, Binghamton, assignors to General Aniline & Film Corporation, New York, N. Y. Emulsion sensitometry. 2,590,830, Mar. 25.

Willis, Sumner C., White Plains, N. Y., assignor to Ortho Pharmaceutical Corporation. Dispenser. 2,590,138, Mar. 25.

Wilson, Joseph L., Matawan, N. J. Gauge for vehicle wheels. 2,590,590, Mar. 25.

Wiltshire, James D., Hemet, Calif. Nesting marketing carrier. 2,590,285, Mar. 25

Winchester, Amos J., Jr., Pittsburgh, Pa., and W. D. King, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reel control system. 2,590,666, Mar. 25.

Winkler, Herman E., assignor, by mesne assignments, to U. S. Machine Corporation, Lebanon, Ind. Adjustable tail gate lift assembly. 2,590,591, Mar. 25.

Wintriss, George, Summit, N. J., assignor to Wintriss Inc., New York, N. Y. Sound maker for toys and other devices. 2,590,743, Mar. 25.

Wintries, Inc., assignee: *See*—
Wintriss, George.

Wirtanen, Carl A., and E. R., Mount Hamilton, Calif. Spoon holder. 2,590,286, Mar. 25.

Wirtanen, Edith A.: *See*—
Wirtanen, Carl A. and E. R.

Wittemann, Walter B., Interlaken, N. J. Article transfer mechanism. 2,590,592, Mar. 25.

Wittman, Joseph J., Detroit, Mich. Adjustable tool. 2,590,593, Mar. 25.

Wittman, Joseph J., Detroit, Mich. Knurling machine. 2,590,667, Mar. 25.

Wolf, Frank J., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Preparing crystalline streptomycin hydrochloride. 2,590,139, Mar. 25.

Wolf, Frank J., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Preparation of crystalline dihydrostreptomycin sesquisulfate. 2,590,140, Mar. 25.

Wolf, Frank J., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Preparation of crystalline dihydrostreptomycin sulfate. 2,590,141, Mar. 25.

Wolf, Harold W.: *See*—
Zimmerman, John, Wolf, and Weiner.

Wolfram, Melville L., Columbus, Ohio, and S. M. Olin, Elkhart, Ind., assignors to The Ohio State University Research Foundation, Columbus, Ohio. Synthesis of streptamine. 2,590,831, Mar. 25.

Wolsey Limited, assignee: *See*—
Earland, Christopher, Bailey, and Carter.

Wood, Charles W.: *See*—
MacCracken, Calvin D., and Wood.

Woodbury, Glen P., Reading, Mass. Frame for photographs and pictures. 2,590,744, Mar. 25.
Worley, William S.: *See*—
Kessler, David L., and Worley.
Wüensch, Guido, Berlin, Germany. Screw and nut mechanism. 2,590,745, Mar 25.
Wyeth Incorporated, assignee: *See*—
Abell, Liese L., Bruce, and Seifter.
Yeoman, Frederick A., Turtle Creek, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Castor oil-unsaturated dicarboxylic acid copolymer resins. 2,590,668, Mar. 25.
Youhouse, Joseph, Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Drive mechanism for extendible antennas. 2,590,484, Mar. 25.
Young, Joseph W., Worcester, assignor to The Felters Company, Boston, Mass. Felting machine. 2,590,142, Mar. 25.
Young, Maurice, executor, trustee, assignee: *See*—
Franks, Joseph.
Young, Robert B., Pittsfield, Mass., assignor to General Electric Company. Preparation of vinyl chloride. 2,590,810, Mar. 25.
Yutang, Lin, Zurich, Switzerland. Spring powered type bar actuating mechanism for typewriters. 2,590,594, Mar. 25.
Zachary, Alexis, New York, N. Y. Hair curler. 2,590,669, Mar. 25.
Zellweger A. G. Apparate-und Maschinenfabriken Uster, assignee: *See*—
Gegenschatz, Walter.
Ziebell, Harvey R., Oshkosh, Wis. Gaff hook. 2,590,595, Mar. 25.
Zilligen, Grady J.: *See*—
Schaar, Charles H., and Zilligen.
Zimmerman, John, Philadelphia, Pa., H. W. Wolf, Clifton, N. J., and L. I. Weiner, Philadelphia, Pa., said Wolf assignor to Forstmann Woolen Company, Passaic, N. J. Shrinkage resistance treatment of woolen goods. 2,590,811, Mar. 25.
Ziskin, Manuel S., University Heights, and R. B. Billig, Erieside, assignors to Kromex Corporation, Cleveland, Ohio. Teakettle. 2,590,596, Mar. 25.
Zopf, Oscar P. N., Oxnard, Calif. Portable collapsible conveyer. 2,590,359, Mar. 25.

LIST OF PLANT INVENTIONS

Avocado tree. M. E. Ponteprino. 1,080, Mar. 25.

LIST OF DESIGN INVENTIONS

Ash tray. D. R. Perlongo. 166,272, Mar. 25.
Autoclave. A. Vischer, Jr. 166,283, Mar. 25.
Base, Power lawn mower. J. K. McMaster. 166,267, Mar. 25.
Bottle. E. G. Ferris. 166,250, Mar. 25.
Box, Jewelry. F. M. Bedinger. 166,238, Mar. 25.
Card, Greeting. D. Adams. 166,236, Mar. 25.
Cleaner, Aquarium. S. Wellburg. 166,284, Mar. 25.
Clock. F. C. Davidhazy. 166,244, Mar. 25.
Clock base or similar article. H. Dreyfuss. 166,249, Mar. 25.
Clockcase or similar article. H. Dreyfuss. 166,247–8, Mar. 25.
Combined flower stand and flower pot. L. Salvador. 166,276, Mar. 25.
Combined liquifier jar and beater element. J. Morgan. 166,268, Mar. 25.
Cover for record players, Transparent. L. F. Kurschner. 166,263, Mar. 25.
Cup or similar article, Egg. C. R. White. 166,289, Mar. 25.
Dish, Butter. B. Forman. 166,251, Mar. 25.
Dish or similar article. A. H. Seflin. 166,277, Mar. 25.
Display shelf. S. Levy. 166,265, Mar. 25.
Dress, Knitted. E. Guttman. 166,256, Mar. 25.
Eraser. F. A. Fusco. 166,252, Mar. 25.
Fabric, Textile. S. Weinberg. 166,285, Mar. 25.
Game apparatus, Amusement. D. W. Price. 166,275, Mar. 25.
Goggle front. A. K. Jones. 166,257, Mar. 25.
Indicating instrument face. P. S. Dickey and K. A. Wood. 166,245, Mar. 25.
Lace. A. S. Staff. 166,279, Mar. 25.
Lantern, Reflecting mantle. C. Bramming. 166,241, Mar. 25.
Pencil. A. Gazda. 166,253–5, Mar. 25.
Purse. S. Tabata. 166,282, Mar. 25.
Set of game pieces. J. J. Crist. 166,243, Mar 25.
Sign, Neon advertising. R. R. Mainini, Jr. 166,266, Mar. 25.
Slipper. M. S. Silver. 166,278, Mar. 25.
Slipper sock. J. H. Bodorff. 166,240, Mar. 25.
Spectacle front. H. Weissman. 166,286–8, Mar. 25.
Spoon or other article of flatware. R. L. Doerfler. 166,246, Mar. 25.
Spoon or similar article. G. N. Allen, M. P. Fleming, and L. E. Ressegger. 166,237, Mar. 25.
Stocking. W. M. Langer. 166,264, Mar. 25.
Stocking. I. Stillman. 166,280–1, Mar. 25.
Stocking, Lady's. W. Mueller. 166,269–70, Mar. 25.
Stocking, Lady's. R. W. Nordman. 166,271, Mar. 25.
Toy clock. H. D. Berman. 166,239, Mar. 25.
Transfer material or the like. J. Plant. 166,273–4, Mar. 25.
Vase. H. Conover. 166,242, Mar. 25.
Wallet or similar article. S. Knee. 166,258–62, Mar. 25.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF MARCH, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading apparatus. W. A. Rosenberger and W. L. Keefer. 2,590,376, Mar. 25.
Abrasive belt and manufacturing same, Endless. D. S. Grove. 2,590,697, Mar. 25.
Absorption dynamometer. P. Martin. 2,590,781, Mar. 25.
Acid of the ascorbic acid type from a 2-keto-hexonic acid, Production of an. V. Ettel. 2,590,163, Mar. 25.
Adjustable bore gauge. G. D. Hayden. 2,590,698, Mar. 25.
Adjustable child's seat. W. F. Kelley. 2,590,253, Mar. 25.
Adjustable tool. J. J. Wittman. 2,590,593, Mar. 25.
Adjusting polar relays. J. T. L. Brown. 2,590,228, Mar. 25.
Adsorption process. D. H. Imhoff and C. H. O. Berg. 2,590,322, Mar. 25.
Aerator and filter, Water. L. Rose. 2,590,431, Mar. 25.
Aerial target releasing device, Automatic. L. S. Jessen. 2,590,103, Mar. 25.
After-chlorination of polyvinyl chloride. D. S. Rosenberg. 2,590,651, Mar. 25.
Aircraft cabin pressure regulator. R. E. Krueger. 2,590,330, Mar. 25.
Air filter and needle valve, Combined. C. L. Snyder and J. W. Schroeder. 2,590,217, Mar. 25.
Air hay-drying apparatus and making same. A. C. Johnson. 2,590,416, Mar. 25.
Airplane hangar. A. Raymond. 2,590,464, Mar. 25.
Airplane stall warning system. H. E. Dyche, Jr. 2,590,521, Mar. 25.
Airplane with auxiliary lift means. B. Warchalowski. 2,590,589, Mar. 25.
Air washer. C. F. and W. G. Niehaus. 2,590,342, Mar. 25.
Alkanolamine salts of 2,4,5-trichlorophenoxyacetic acid. R. C. Dosser and L. C. White, Jr. 2,590,815, Mar. 25.
Amide derivatives and making same. O. Albrecht. 2,590,073, Mar. 25.
Ammonium penicillin, Preparation of. K. Hallas-Moller and K. Petersen. 2,590,403, Mar. 25.
Amplifier, Direct-coupled. H. L. King. 2,590,104, Mar. 25.
Anchoring and connecting means for strain-cored electrical cables. E. O. Schonstedt. 2,590,131, Mar. 25.
Animal trap. C. L. Hancock. 2,590,099, Mar. 25.
Animal trap. L. C. Heal. 2,590,316, Mar. 25.
Anthrimides, Preparing. M. Scalera and H. W. Stewart. 2,590,825, Mar. 25.
Antiglare attachment for vehicles. W. B. Ray. 2,590,463, Mar. 25.
Antisurge control and exhaust valve for hydraulic apparatus. J. M. and F. H. Towler. 2,590,137, Mar. 25.
Apparatus and method for molding concrete floor slabs in situ. M. G. Flores. 2,590,304, Mar. 25.
Apparatus and method for molding prestressed concrete structural members. V. Weinberg. 2,590,478, Mar. 25.
Apparatus and method for wrapping articles and severing the wrapped articles from webs. W. S. Cloud. 2,590,379, Mar. 25.
Apparatus for continuously producing corrugated glass sheets. Roger and Rene Guilleminot. 2,590,768, Mar. 25.
Apparatus for liquid level control. J. A. Campbell. 2,590,680, Mar. 25.
Apparatus for making cheese. C. and M. L. Cohen. 2,590,310, Mar. 25.
Apparatus for manufacturing nuts. E. A. Green. 2,590,171, Mar. 25.
Apparatus for producing electrified powders by friction. P. Hampe. 2,590,534, Mar. 25.
Apparatus for projecting images from television receivers. M. A. Schlesinger. 2,590,130, Mar. 25.
Apparatus for removing human skin for grafting purposes. B. Douglas. 2,590,299, Mar. 25.
Apparatus for the manufacture of carbon black. R. W. Skoog and I. Drogin. 2,590,660, Mar. 25.
Apparatus for treating materials in suspension in elastic fluid. N. N. Stephanoff. 2,590,220, Mar. 25.
Apparatus for violet ray treatment. C. G. Filzer. 2,590,601, Mar. 25.
Apparatus for water ice refrigeration. R. D. Pike. 2,590,269, Mar. 25.
Apparatus for winding strands on articles. E. A. Heckman and J. J. Kling. 2,590,246, Mar. 25.
Apparatus for wrapping potted plants. H. S. Williams. 2,590,742, Mar. 25.
Article transfer mechanism. W. B. Wittemann. 2,590,592, Mar. 25.
Artificial leg. S. Mayack. 2,590,782, Mar. 25.
Attachment for hair clippers. P. C. Clark. 2,590,684, Mar. 25.
Automatic door holder. J. W. and E. Laurin. 2,590,423, Mar. 25.
Automatic gun charger. E. C. Bunnell. 2,590,153, Mar. 25.
Automatic roll control for ships or the like. S. R. and A. H. Ramsay. 2,590,207, Mar. 25.
Automatic selection of receiving channels. H. B. Coxhead. 2,590,234, Mar. 25.
Automatic transmission control. R. Chilton. 2,590,231, Mar. 25.
Azo dyestuff. E. Moser. 2,590,639–40, Mar. 25.
Bag: *See*—
Garment protecting bag.
Bag sealing machine. A. E. Almgren and J. P. Jakob. 2,590,081, Mar. 25.
Bag sealing machine. A. E. Almgren, J. P. Jakob, and F. W. Goodrich. 2,590,082, Mar. 25.
Bait casting reel. F. S. Beeler. 2,590,369, Mar. 25.
Bale ejector. C. Reichert. 2,590,649, Mar. 25.
Ball lifting apparatus, Bowling. M. Patterson. 2,590,644, Mar. 25.
Bar: *See*—
Outboard motor steering bar.
Bar actuating mechanism for typewriters, Spring powered type. L. Yutang. 2,590,594, Mar. 25.
Barbecuing machine. J. M. Skocic. 2,590,470, Mar. 25.
Bath sponge holder. H. L. Hawkins, Sr. 2,590,614, Mar. 25.
Battery. B. C. Roehrl. 2,590,824, Mar. 25.
Battery casing. A. S. Vitale. 2,590,804, Mar. 25.
Battery plate and forming same, Storage. J. Homan. 2,590,703, Mar. 25.
Battery, Sea-water. R. L. Taylor. 2,590,584, Mar. 25.
Bearing. R. F. Edgar. 2,590,761, Mar. 25.
Bearing circle. C. W. Merriam, Jr. 2,590,115, Mar. 25.
Bearing seal. S. R. Large. 2,590,422, Mar. 25.
Bed, Dog. C. F. Loasby. 2,590,631, Mar. 25.
Bed, Transversely folding. G. K. Sawaya. 2,590,129, Mar. 25.
Blade driven rotary pump. S. Scognamillo. 2,590,730, Mar. 25.
Blasting switch. T. A. Rourke. 2,590,274, Mar. 25.
Board: *See*—
Diving board. Portable sectional ironing board.
Portable collapsible ironing board.
Boat launching apparatus. C. A. Linsmeier. 2,590,715, Mar. 25.
Bobbin for hand knitting yarn and the like. J. Gomberg. 2,590,695, Mar. 25.
Bobby pin reconditioning device. T. L. Adas. 2,590,364, Mar. 25.
Bolometer. E. Weber and S. A. Johnson. 2,590,477, Mar. 25.
Bookkeeping device. W. T. Maass. 2,590,259, Mar. 25.
Bore gauge head. W. J. Bryant, H. H. Gates, and T. H. Ljunggren. 2,590,151, Mar. 25.
Bowling machine totalizer. J. Millman and H. P. Stabler. 2,590,444, Mar. 25.
Box: *See*—
Electric safety wall box. Knockdown box.
Insulated box.
Box handling mechanism. Q. E. Bashore. 2,590,225, Mar. 25.
Bracelet mounting for watches. L. L. Rasmussen. 2,590,572, Mar. 25.
Bracket: *See*—
Cable messenger clamping bracket.
Bracket for supporting curtain rails. R. J. Murphy. 2,590,446, Mar. 25.
Brake: *See*—
Clutch brake.
Brake for wheeled vehicles, Friction. A. Y. Dodge. 2,590,690, Mar. 25.
Brake hanger stabilizer. D. M. Light. 2,590,714, Mar. 25.
Brightness meter. M. N. Fairbank and L. Rosenblum. 2,590,165, Mar. 25.
Brominating 1-amino-2-sulfoanthraquinone. C. E. Hieserman. 2,590,247, Mar. 25.
Brush mechanism. H. W. Schaffer. 2,590,796, Mar. 25.

Building construction. F. P. Bingman. 2,590,227, Mar. 25.
Building construction and structural units therefor. G. M. Rapp. 2,590,123, Mar. 25.
Building structure. H. H. Crafton. 2,590,687, Mar. 25.
Bus duct plug in adapter. L. W. Dyer and G. J. Freese. 2,590,522, Mar. 25.
Cabinet: *See*—
Filing cabinet. Welding cabinet.
Cable messenger clamping bracket. K. C. Jenne. 2,590,415, Mar. 25.
Calculating machine. D. S. Evans. 2,590,599, Mar. 25.
Camera and projector arrangement, Combined. J. Bolsey. 2,590,497, Mar. 25.
Camera exposure control. D. B. Dorsey. 2,590,161, Mar. 25.
Camera, Hand-held roll-film. E. S. Hineline. 2,590,409, Mar. 25.
Camera with flash synchronizer attachment, Curtain shutter. A. Wagner. 2,590,829, Mar. 25.
Can opener suspended from a can. J. Lesser and S. H. Lenhoff. 2,590,553, Mar. 25.
Candy cleaning machine. H. W. Currie. 2,590,381, Mar. 25.
Cane and crutch, Combined. B. A. Grimball. 2,590,607, Mar. 25.
Cap: *See*—
Ventilated cap.
Car coupler. N. Hammond. 2,590,404, Mar. 25.
Car wheel. C. V. Osborne. 2,590,567, Mar. 25.
Carburetor. J. H. Cater. 2,590,377, Mar. 25.
Carrier: *See*—
Golf club carrier. Nesting marketing carrier.
Carrier system having variable power level for supervisory signaling. P. Bakker. 2,590,672, Mar. 25.
Cart, Dust. H. Linde. 2,590,256, Mar. 25.
Case: *See*—
Wrench case.
Case shifting mechanism and repeat typing mechanism for power-operated typewriters and like machines. W. H. Kupper. 2,590,777, Mar. 25.
Caster oil-unsaturated dicarboxylic acid copolymer resins. F. A. Yeoman. 2,590,668, Mar. 25.
Catalyst control in organic reactions. T. B. Hudson. 2,590,539, Mar. 25.
Cathode-ray indicator. M. S. McVay. 2,590,114, Mar. 25.
Cathode-ray tube amplitude indicating apparatus. D. H. Castle. 2,590,230, Mar. 25.
Cathode-ray tube screen filter. P. R. Adams. 2,590,080, Mar. 25.
Cation exchange resins. J. A. Otto. 2,590,449, Mar. 25.
Cellular thermoplastic materials, Making. P. J. Carpentier. 2,590,156, Mar. 25.
Centrifugal bowl for separating sludge from liquids. N. E. Svensjö. 2,590,735, Mar. 25.
Cerium activated aluminate phosphors active in the erythemal range. S. Isenberg. 2,590,411, Mar. 25.
Chair back, Adjustable. C. E. E. Lundquist. 2,590,718, Mar. 25.
Chair having resiliently mounted seat and back. O. S. Caesar. 2,590,504, Mar. 25.
Check wire tension measuring apparatus. H. H. Bomberger. 2,590,498, Mar. 25.
Chlorine counter. S. H. Liebson. 2,590,108, Mar. 25.
Cigarette extinguisher. R. C. Lindstrom. 2,590,425, Mar. 25.
Circuit: *See*—
Electrical control circuit. Pulsing circuit.
Oscillator controlled relay circuit. Reactance tube circuit.
Selective squelch circuit.
Phase advance circuit. Voltage sensitive circuit.
Circuit breaker. L. R. Ludwig, W. H. Stuellein and G. D. Gamel. 2,590,634, Mar. 25.
Circuit breaker. E. J. Walker. 2,590,663, Mar. 25.
Circuit for controlling traffic signals, Electric. O. J. Blanchet. 2,590,748, Mar. 25.
Circuit interrupter. A. W. Edwards. 2,590,524, Mar. 25.
Circuit interrupter. R. E. Frink. 2,590,602, Mar. 25.
Circuit interrupter contact pressure increasing device. A. W. Edwards. 2,590,523, Mar. 25.
Circuit interrupter, Spaced plate. J. A. Kalaway. 2,590,543, Mar. 25.
Cleaner: *See*—
Vacuum cleaner.
Cleaning apparatus for pipes and the like. G. T. Thomas. 2,590,479, Mar. 25.
Clip: *See*—
Supporting clip.
Clothes drier. A. R. Constantine. 2,590,295, Mar. 25.
Clutch brake. C. A. Cook. 2,590,089, Mar. 25.
Coating and treating a pile fabric to set the fibers in the upstanding position. W. S. Libbey. 2,590,713, Mar. 25.
Cocoa processing and products. E. K. Pettibone. 2,590,646, Mar. 25.
Coin-counting and wrapping device. G. O. Ewart. 2,590,241, Mar. 25.
Color television image tube. S. V. Forgue. 2,590,764, Mar. 25.
Comb, Electrical. S. R. Nord, Jr., and C. B. Brostedt. 2,590,447, Mar. 25.
Combined heating element and thermomotive device for cooking devices or toasters. M. W. Loomer. 2,590,334, Mar. 25.
Combined television and sound system. G. L. Fredendall and A. C. Schroeder. 2,590,306, Mar. 25.
Compass controlled directional gyro. E. E. Lynch. 2,590,780, Mar. 25.
Composite solid carbon dioxide. C. L. Jones. 2,590,542, Mar. 25.
Compositions and methods for processing textile fibers. B. G. Skalkeas. 2,590,659, Mar. 25.
Compressor, Rotary. S. Scognamillo. 2,590,729, Mar. 25.
Concentrated vat acids, Preparing. G. N. Sandor. 2,590,213, Mar. 25.
Concrete mixing apparatus. G. Maxon, Jr. 2,590,438, Mar. 25.
Concrete window frame and sash. C. H. Nissen. 2,590,267, Mar. 25.
Condensate separator. A. W. Baumann. 2,590,226, Mar. 25.
Condenser: *See*—
Electrical condenser.
Connector: *See*—
Wire connector.
Container: *See*—
Minnow transport container. Silverware container.
Continuously casting metals, Process of and apparatus for. I. and I. Harter, Jr., and O. R. Carpenter. 2,590,311, Mar. 25.
Control and protection of electric power system. J. D. Miner, Jr., B. O. Austin and R. D. Jessee. 2,590,265, Mar. 25.
Control system. W. I. Bendz. 2,590,491, Mar. 25.
Control system. G. P. Lessmann. 2,590,628, Mar. 25.
Control system for carrier telecommunication circuits. L. E. Adler. 2,590,746, Mar. 25.
Control system for hoist motors. D. L. Pettit. 2,590,453, Mar. 25.
Control system for laundry driers and the like. E. A. Wagner. 2,590,808, Mar. 25.
Controlling chemical reactions. D. B. Luten, Jr. 2,590,436, Mar. 25.
Conveyer having pivotal pan. E. J. Albright. 2,590,291, Mar. 25.
Conveyer, Portable collapsible. O. P. N. Zopf. 2,590,359, Mar. 25.
Core type winder drive. G. Cawley and H. M. Brown. 2,590,682, Mar. 25.
Cork bonding process. C. L., Jr., and F. H. Cornelius. 2,590,757, Mar. 25.
Corn popping apparatus, High-frequency. E. L. Schiavone. 2,590,580, Mar. 25.
Corner fitting for knockdown structures. W. E. Davis. 2,590,159, Mar. 25.
Cornice construction. D. S. Malchiodi. 2,590,555, Mar. 25.
Coupling: *See*—
Shaft coupling.
Cover: *See*—
Seat cover. Toilet tissue holder cover.
Cover knob. C. W. Fry. 2,590,395, Mar. 25.
Cover means for terminals of dynamo-electric machines. L. E. Miller. 2,590,559, Mar. 25.
Crane, Truck type articulated. E. B. Nickles. 2,590,787, Mar. 25.
Crank for automatically variable-speed transmission gears, Adjustable. A. Kolko. 2,590,547, Mar. 25.
Crankshaft arrangement in a multicylinder V-type piston machine. F. L. van Weenen. 2,590,662, Mar. 25.
Crib, Infant's. W. J. and W. J. McNabb, Jr. 2,590,337, Mar. 25.
Crochet frame. L. J. Ghelmini. 2,590,694, Mar. 25.
Crystalline dihydrostreptomycin sesquisulfate, Preparation of. F. J. Wolf. 2,590,140, Mar. 25.
Crystalline dihydrpstreptomycin sulfate, Preparation of F. J. Wolf. 2,590,141, Mar. 25.
Crystalline streptomycin hydrochloride, Preparing. F. J. Wolf. 2,590,139, Mar. 25.
Crystallization of DDT. J. L. Kallok. 2,590,544, Mar. 25.
Cupriferous disazo-dyestuffs. H. Riat and H. Mayer. 2,590,346, Mar. 25.
Cushion and mattress filling machine having continuously reciprocating discharging means. A. J. Kay. 2,590,327, Mar. 25.
Cutoff plate for spreader boxes. W. J. Miller. 2,590,443, Mar. 25.
Cutting and salvaging automobile bodies. B. I. Hochman. 2,590,700, Mar. 25.
Cutting attachment for paper box machines, Box. H. Keller. 2,590,774, Mar. 25.
Cutting plate for a dry-shaving apparatus. K. R. Hofland. 2,590,619, Mar. 25.
Cyclohexene, Preparing. H. F. Rickert, E. Stein, and O. Bayer. 2,590,208, Mar. 25.
Cyclone separator. H. van der Kolk. 2,590,480, Mar. 25.
Cylinder dampener for offset-printing machines. M. Ras. 2,590,429, Mar. 25.
Cylinder, Hydraulic master. J. T. Risse. 2,590,430, Mar. 25.

Deaerating apparatus. E. L. Cline. 2,590,754, Mar. 25.
Dechlorination of a halocarbon containing chlorine. O. A. Blum. 2,590,433, Mar. 25.
Deep well treatment. P. H. Cardwell, A. W. Coulter, Jr., and H. H. Jones. 2,590,814, Mar. 25.
Defectively labeled and nonlabeled can detecting device. G. J. Palmer. 2,590,343, Mar. 25
Dehalogenation of aromatic compounds. E. C. Britton and J. D. Head. 2,590,813, Mar. 25.
Deionized electrode in electric glassworking. E. M. Guyer. 2,590,173, Mar. 25.
Dental prothesis. E. Märki. 2,590,258, Mar. 25.
Detachable latched electrical plug and socket connection. L. Triplett. 2,590,354, Mar. 25.
Detergent composition. J. E. Hanson. 2,590,613, Mar. 25.
Device for aerating water. D. W. Shirley. 2,590,581, Mar. 25.
Device for bending fracture nails and the like for impacting fractures and extracting such nails. E. J. Haboush. 2,590,532, Mar. 25.
Device for dispensing books, packages, and the like. W. S. Tandler, D. S. Walker, and F. A. de Weiss. 2,590,736, Mar. 25.
Device for making flat curls. A. E. Farrell. 2,590,166, Mar. 25.
Device for minimizing the effects of torsion when reproducing a magnetic record wire. B. E. Lenehan. 2,590,627, Mar. 25.
Device for mounting and interchanging accessories on a fishing spoon. J. G. Lucas. 2,590,633, Mar. 25.
Device for producing electric pulses, particularly for medical purposes. F. Schuhfried. 2,590,216, Mar. 25.
Device relative to color television. P. M. Roeper. 2,590,350, Mar. 25.
Differential actuating mechanism. R. V. Reppert. 2,590,345, Mar. 25.
Differential, Concentric helical drum winch. A. B. Hulse, Jr. 2,590,623, Mar. 25.
Direct halogenation of steriods with an unsaturated side-chain in 17-position, and the dehydrohalogenation of resultant products. K. Miescher, L. Ehmann, and A. Wettstein. 2,590,637, Mar. 25.
Dispenser. S. C. Willis. 2,590,138, Mar. 25.
Dispenser and applicator. W. G. Thompson. 2,590,661, Mar. 25.
Dissolving apparatus. L. B. Johnson and E. Geh. 2,590,541, Mar. 25.
Ditch digger. W. E. Sanner and R. W. Decker. 2,590,352, Mar. 25.
Diving board. W. J. Nightingale. 2,590,563, Mar. 25.
Double check quick filler valve. C. O. Henneman. 2,590,408, Mar. 25.
Doughnut machine. F. W. Corbett. 2,590,157, Mar. 25.
Dough panning machine, Automatic. H. C. Rhodes. 2,590,823, Mar. 25.
Drier: *See*—
Clothes drier.
Drive for cloth spreading machines. M. R. Katz. 2,590,773, Mar. 25.
Drive for photographic material. E. H. Heyer. 2,590,699, Mar. 25.
Drive mechanism for extendible antennas. J. Youhouse. 2,590,484, Mar. 25.
Driven dirigible dual front wheel unit for tractors. J. M. Hait. 2,590,174, Mar. 25.
Dry dock, Side-haul railway. J. S. Crandall. 2,590,689, Mar. 25.
Duct rodding machine. C. Jasper and G. T. Hawk. 2,590,414, Mar. 25.
Dyeing machine with perforated cylinders, Open width. H. Haas. 2,590,407, Mar. 25.
Dynamoelectric machine construction. R. W. Esarey. 2,590,525, Mar. 25.
Effecting chemical reactions. N. N. Stephanoff. 2,590,219, Mar. 25.
Electric heating. R. L. Jones. 2,590,417, Mar. 25.
Electric motor speed control system. E. E. Turner, Jr. 2,590,356, Mar. 25.
Electric power distribution system. J. F. Atkinson, H. W. Kelley, and J. M. McCutchen. 2,590,083, Mar. 25.
Electric room heater. E. A. Farr and J. P. Theisen. 2,590,600, Mar. 25.
Electric safety wall box. F. R. Elmore. 2,590,391, Mar. 25.
Electric terminal for dry batteries. M. E. Wilke. 2,590,284, Mar. 25.
Electric translating system. W. J. Holt, Jr. 2,590,319, Mar. 25.
Electrical apparatus. A. M. J. Janser and C. S. Townsend. 2,590,323, Mar. 25.
Electrical condenser. P. Robinson and C. C. Reid. 2,590,650, Mar. 25.
Electrical control apparatus. E. D. Mead and O. S. A. Mesch. 2,590,263, Mar. 25.
Electrical control circuit. R. Golden. 2,590,606, Mar. 25.
Electrical regulator. O. C. Walley and C. F. Scheu. 2,590,223, Mar. 25.
Electromagnetic timing relay. C. T. Evans. 2,590,302, Mar. 25.
Electronic rectifying circuits. A. S. Vitale. 2,590,805, Mar. 25.
Electronic time-delay system. H. F. Mayer. 2,590,783, Mar. 25.
Emulsion sensitometry. E. A. Willifford and M. H. Sweet. 2,590,830, Mar. 25.
Energy absorbing stop. E. A. Volk, Jr. 2,590,482, Mar. 25.
Engine: *See*—
Internal - combustion engine.
Engine starter, Self-combustible solid charge operated. R. Wark. 2,590,432, Mar. 25.
Envelope with hanger support. S. Robins. 2,590,273, Mar. 25.
Excess flow check valve. A. E. Horman. 2,590,250, Mar. 25.
Explosion engine ignition. N. Felici. 2,590,168, Mar. 25.
Explosion-proof heater. L. R. Mast. 2,590,336, Mar. 25.
Explosive cartridge assembly. A. W. Baker. 2,590,671, Mar. 25.
Explosively actuated bonding tool. R. Temple. 2,590,585, Mar. 25.
Extractor: *See*—
Juice extractor.
Eyeshield. F. G. Gay, Jr., and D. J. McCulloch. 2,590,397, Mar. 25.
Fan oscillating mechanism. K. A. Ellis. 2,590,762, Mar. 25.
Fastener: *See*—
Hookless slide fastener.
Fastener device, Hookless. S. J. Lackritz. 2,590,107, Mar. 25.
Fastening device. J. Hajdu. 2,590,175, Mar. 25.
Fastening device for brake linings. J. M. and J. J. Buccino. 2,590,749, Mar. 25.
Fatty alcohols, Production of. E. C. Kunz and A. T. Flore. 2,590,105, Mar. 25.
Feed and transfer mechanism for book-trimming machines. C. L. Moyer. 2,590,198, Mar. 25.
Feeder control for hydraulic pumps. M. W. Huber. 2,590,822, Mar. 25.
Feeder for envelope stuffing machines. A. Van Veen. 2,590,222, Mar. 25.
Feeding mechanism for automatic guns. R. S. Sanford. 2,590,214, Mar. 25.
Feeding of tapered articles. J. Klopak. 2,590,710, Mar. 25.
Felting machine. J. W. Young. 2,590,142, Mar. 25.
Filing cabinet. O. E. Nabholz. 2,590,341, Mar. 25.
Film, Photographic roll. L. Calm. 2,590,678, Mar. 25.
Film rack. C. S. Hurlbut, Jr. 2,590,705, Mar. 25.
Filter: *See*—
Cathode-ray tube screen filter.
Multiple disk filter.
Oil-bath intake-air filter.
Filter for seismic prospecting. J. P. Minton. 2,590,822, Mar. 25.
Fire alarm, Automatic. A. Hirschle. 2,590,770, Mar. 25.
Fish lure. L. E. Rasch. 2,590,461, Mar. 25.
Fish net formed of synthetic resin strands and strands therefor and producing same. W. E. Thompson, Jr., and R. W. Taylor. 2,590,586, Mar. 25.
Fishing apparatus. C. H. Muth. 2,590,721, Mar. 25.
Fishing lure. M. J. and E. F. Fasano. 2,590,167, Mar. 25.
Fishing lure. L. J. Mickelson. 2,590,558, Mar. 25.
Fishing net attachment. A. Hörgård. 2,590,249, Mar. 25.
Fishing plug. H. D. Chaffee. 2,590,752, Mar. 25.
Fishing spoon hook mounting. C. W. Roes. 2,590,723, Mar. 25.
Flameproof thermoplastic molding compositions. G. F. Rugar. 2,590,211, Mar. 25.
Flask, Sectional molder's. R. O. Mayer. 2,590,720, Mar. 25.
Flat rotary pump. F. C. Byram and S. S. L. Chang. 2,590,751, Mar. 25.
Flat rotary pump. S. S. L. Chang. 2,590,435, Mar. 25.
Flat tire indicator. J. Franks. 2,590,394, Mar. 25.
Flexible siliceous sheet material, making, and composition therefor. L. J. Berberich and O. E. Anderson. 2,590,493, Mar. 25.
Float-operated draining device. A. Bienaimé. 2,590,495, Mar. 25.
Fluid actuated motor control valving. G. T. Randol. 2,590,122, Mar. 25.
Fluid measuring and dispensing apparatus. J. G. A. M. J. Meyer and R. L. Rambert. 2,590,440, Mar. 25.
Fluid meter. F. A. Ryder and M. H. Weeks. 2,590,275, Mar. 25.
Fluid pressure relay for brake mechanisms. H. W. Trevaskis. 2,590,587, Mar. 25.
Flush valve arrangement and installation. J. I. Bellamy. 2,590,147, Mar. 25.
Foam injection sprinkler system. H. N. Rider. 2,590,348, Mar. 25.
Foam injection sprinkler system with anticontamination connections. H. N. Rider. 2,590,349, Mar. 25.
Food tray rack. V. Lipari. 2,590,630, Mar. 25.
Forming films. E. H. Land. 2,590,186, Mar. 25.
Forming tool blanks. T. F. Githens. 2,590,766, Mar. 25.
Fractionation of amino acid mixtures. E. J. Roberts. 2,590,209, Mar. 25.
Frame: *See*—
Crochet frame.
Frame for photographs and pictures. G. P. Woodbury. 2,590,744, Mar. 25.
Frame made of paper. E. W. Weiller. 2,590,357, Mar. 25.
Frequency relay. W. Few, J. D. Sauter, and W. F. Szabo. 2,590,393, Mar. 25.

Frequency shift monitor. H. A. Musk. 2,590,641, Mar. 25.
Fuel injector. G. M. Rogers. 2,590,575, Mar. 25.
Fuel oil control system. C. D. MacCracken and C. W. Wood. 2,590,111, Mar. 25.
Fugitive tint for cellulose acetate. W. E. Davis. 2,590,236, Mar. 25.
Fumigating compositions. J. Gillies and J. Rowe. 2,590,529, Mar. 25.
Gaff hook. H. R. Ziebell. 2,590,595, Mar. 25.
Garment drying rack support. H. W. Hurley. 2,590,410, Mar. 25.
Garment hanging fixture. A. A. Curtis. 2,590,297, Mar. 25.
Garment protecting bag. A. J. Rassenfoss. 2,590,462, Mar. 25.
Gas purifying method and apparatus. D. Aronson. 2,590,145, Mar. 25.
Gas separator. J. A. Campbell. 2,590,681, Mar. 25.
Gas valve. P. S. Harper. 2,590,535, Mar. 25.
Gas valve. C. C. Lamar. 2,590,550, Mar. 25.
Gas valve. V. C. Peterson. 2,590,569, Mar. 25.
Gauge: *See*—
Adjustable bore gauge.
Micrometer height gauge.
Portable air gauge.
Gauge for vehicle wheels. J. L. Wilson. 2,590,590, Mar. 25.
Gear-operated socket wrench. P. Isaac. 2,590,706, Mar. 25.
Gear power take-off drive for hammer mills. A. H. Bottorff. 2,590,675, Mar. 25.
Gear testing and finishing machine. W. H. Petit. 2,590,203, Mar. 25.
Generator: *See*—
Steam generator.
Generator for flickering beam photometers, Reference signal. J. W. Gabel and S. A. Loukomsky. 2,590,693, Mar. 25.
Generator with double outlet furnace, Steam. J. A. Lacerenza. 2,590,712, Mar. 25.
Geochemical prospecting. E. McDermott. 2,590,113, Mar. 25.
Glass controlled dispensing valve. J. A. Hopwood. 2,590,177, Mar. 25.
Golf club and equipment case and cart, Combination convertible. L. D. Jamison. 2,590,178, Mar. 25.
Golf club carrier. C. E. Burns. 2,590,154, Mar. 25.
Gooseneck for trailers, Detachable fluid pressure operated. H. L. Rogers. 2,590,210, Mar. 25.
Gravity meter. P. J. Walsh. 2,590,740, Mar. 25.
Grease. J. W. Nelson. 2,590,786, Mar. 25.
Grease composition. J. W. Teter and J. W. Nelson. 2,590,801, Mar. 25.
Grommet for umbrellas. J. Levin. 2,590,332, Mar. 25.
Ground parts of Ryania plant as insecticides. R. E. Heal. 2,590,536, Mar. 25.
Guanidine synthesis. J. S. Mackay. 2,590,257, Mar. 25.
Guard device for axle-embracing gear housing. O. C. Gruenberg. 2,590,309, Mar. 25.
Guard for knives, Spray. G. Kahn. 2,590,709, Mar. 25.
Gyratory crusher. H. H. Rumpel. 2,590,795, Mar. 25.
Gyroscopic direction indicator. A. T. Sinks, R. A. Pfuntner, and S. Gabrielson. 2,590,798, Mar. 25.
Hair curler. A. Zachary. 2,590,669, Mar. 25.
Hand-operated motor-driven radial machine tool. C. F. Duerr, Jr. 2,590,093, Mar. 25.
Hanger construction for supporting meat hooks. A. A. Hamer. 2,590,533, Mar. 25.
Hat holder. R. D. Gordon. 2,590,401, Mar. 25.
Heat exchanger. K. B. Ris. 2,590,465, Mar. 25.
Heat-treatment of irregular metallic objects. H. F. Kincaid, J. D. Graham, and J. A. Redmond. 2,590,546, Mar. 25.
Heater: *See*—
Electric room heater.
Explosion-proof heater.
Heater based on utilization of jet propulsion units. B. Lindenbaum. 2,590,109, Mar. 25.
Heating device. G. W. and F. S. Miller. 2,590,442, Mar. 25.
Heating pad. A. O. Samuels. 2,590,212, Mar. 25.
Heating unit for cooking devices. L. J. Koci. 2,590,328, Mar. 25.
Heterodyne frequency modulator with automatic deviation control. S. W. Moulton. 2,590,784, Mar. 25.
High-frequency electron discharge device and circuits therefor. C. W. Hansell. 2,590,612, Mar. 25.
High-pressure valve. B. B. Holmes and J. L. Pauly. 2,590,702, Mar. 25.
Hitch for ganging a plurality of implements in squadron arrangement. F. A. D'Artenay. 2,590,158, Mar. 25.
Hog waterer. C. H. Nelson. 2,590,266, Mar. 25.
Hoisting apparatus. W. Guier and R. E. Carter. 2,590,172, Mar. 25.
Holder: *See*—
Automatic door holder.
Bath sponge holder.
Hat holder.
Lift front lens holder.
Nursing bottle holder.
Spice can holder.
Spoon holder.
Suture package holder.
Holding for invoice books. F. C. Hodkin. 2,590,618, Mar. 25.
Hook: *See*—
Gaff hook.
Hookless slide fastener. S. J. Lackritz. 2,590,331, Mar. 25.
Hot-gas engine or refrigerator. F. K. du Pré. 2,590,519, Mar. 25.
Humidifying blanket. S. B. Ellis. 2,590,301, Mar. 25.
Hydraulic actuator. K. J. Alward. 2,590,144, Mar. 25.
Hydraulic adapter. J. D. Bennett. 2,590,362, Mar. 25.
Hydraulic by-pass system and valve therefor. J. S. Pilch. 2,590,454, Mar. 25.
Hydraulic pressure control apparatus. B. Brownstein. 2,590,503, Mar. 25.
Hydraulic transmission. G. E. Soper and H.-E. E. Christenson. 2,590,472, Mar. 25.
Hydraulically controlled continuously variable ratio torque converter. E. L. Foster. 2,590,305, Mar. 25.
Hydrogen cyanide, Production of. G. Barsky. 2,590,146, Mar. 25.
Hydrothermal synthesis of forsterite. E. F. Osborn. 2,590,566, Mar. 25.
Hydroxy xenoyl alkanoic acids and derivatives thereof. R. R. Burtner and H. A. Arbit. 2,590,085, Mar. 25.
Ice cream composition. J. Lolkema. 2,590,077, Mar. 25.
Ice-making machine. J. W. Braswell, Jr. 2,590,499, Mar. 25.
Ignition system, Dual plug. E. W. Lautenberger. 2,590,778, Mar. 25.
Implement hitch for tractors. G. L. Devereaux. 2,590,385, Mar. 25.
Impregnating wood with soluble arsenical compounds. V. Ettel. 2,590,162, Mar. 25.
Indicator: *See*—
Cathode-ray indicator.
Flat tire indicator.
Gyroscopic direction indicator.
Indicator for radio apparatus, On-off. A. H. Haun. 2,590,314, Mar. 25.
Inhaler with closure. F. E. Brown. 2,590,832, Mar. 25.
Ink from tall oil modified alkyd resins, Printing. A. F. Schmutzler. 2,590,654, Mar. 25.
Ink transfer ribbon. G. G. Neidich. 2,590,200, Mar. 25.
Inking mechanism for printing machines. W. F. Huck. 2,590,538, Mar. 25.
Inking roll and ink feed mechanism therefor. J. L. Carver. 2,590,507, Mar. 25.
Instructional device. K. H. H. Schumann. 2,590,469, Mar. 25.
Insulated box. J. Ruthven, Jr., and R. G. Harrison. 2,590,724, Mar. 25.
Interlock for electrical connectors. O. Carlsen. 2,590,505, Mar. 25.
Interlocking roofing or siding. M. L. Jurasevich. 2,590,708, Mar. 25.
Internal-combustion engine. J. C. Slonneger. 2,590,134, Mar. 25.
Interscapular patient supporting device for application of an orthopedic brace. R. Anderson. 2,590,670, Mar. 25.
Jack: *See*—
Tractor jack.
Jet orifice, Adjustable. J. A. Robertson and E. A. Rock. 2,590,272, Mar. 25.
Jet propulsion device for airscrews or rotary wings. R. Poulit. 2,590,457, Mar. 25.
Joint: *See*—
Pipe joint.
Tank joint.
Joint for molds. H. S. Kuhn. 2,590,776, Mar. 25.
Joint for pipes carrying internal fluid pressure, Flexible. G. B. R. Feilden. 2,590,392, Mar. 25.
Juice extractor. W. A. Doering. 2,590,237, Mar. 25.
Ketohalogenodimethylperhydrophenanthrenes and making same. K. Miescher and J.-R. Billeter. 2,590,636, Mar. 25.
Kinetic stop motion device. W. L. Duncan and E. L. Griggs, Jr. 2,590,518, Mar. 25.
Knockdown box. R. M. Bergstein. 2,590,371, Mar. 25.
Knurling machine. J. J. Wittman. 2,590,687, Mar. 25.
Lantern, Gasoline. J. L. Cahill. 2,590,434, Mar. 25.
Leaf machine. B. P. Strong. 2,590,734, Mar. 25.
Level control. C. H. O. Berg. 2,590,148, Mar. 25.
Lift front lens holder. R. B. Evans. 2,590,526, Mar. 25.
Lightweight polymethylene terephthalate fabric produced by alkali treatment. J. D'A. H. Hall, B. P. Ridge, and J. R. Whinfield. 2,590,402, Mar. 25.
Lipstick and brush compact. V. Kromray. 2,590,329, Mar. 25.
Liquid fuel burner and the like. J. R. Joyce. 2,590,772, Mar. 25.
Liquid return trap in refrigerating systems. J. E. Watkins. 2,590,741, Mar. 25.
Locomotive. C. K. Steins. 2,590,473, Mar. 25.
Low-pressure drop fluid duct bend. A. C. Siciliano. 2,590,797, Mar. 25.
Luminaire, Direct lighting. H. L. Logan. 2,590,192, Mar. 25.
Machine for applying glue in stripes to sheet material. R. Minkow. 2,590,339, Mar. 25.
Machine for applying pressure to shoe bottoms. L. G. Miller. 2,590,197, Mar. 25.
Machine for handling potato vines. E. D Dahlman. 2,590,758, Mar. 25.
Machine for printing on spherical objects. J. I. Pneuman and J. L. Foote. 2,590,456, Mar. 25
Machine tool, C. W. Hopkins. 2,590,102, Mar. 25.
Magazine wrapping machine. C J. Russell. 2,590,351, Mar. 25.
Magnetic process control. G. C. Devol. 2,590,091, Mar. 25.

Magnetometer. T. Koulomsine 2,590,184, Mar. 25.
Magnetron beacon. H. L. Jackson. 2,590,540, Mar. 25.
Manifolding attachment for typewriters, Speed feed. H. F Sadgebury and R. N. Ward. 2,590,652, Mar. 25.
Manufacture of oil and food products from herring, whales and other sea animals. M. Fladmark. 2,590,303, Mar. 25
Manufacture of the carbonyls of nickel. A. Maeder. 2,590,078, Mar. 25.
Mapping device. R. T. Cloud. 2,590,755, Mar. 25.
Material discharge mechanism C. L. Norton, Jr. 2,590,202, Mar. 25.
Maximum demand meter. R. Pudelko. 2,590,459, Mar. 25.
Measuring and box filling machine. H. Marchadour. 2,590,556, Mar. 25
Measuring and dispensing apparatus for containers. W. W. Prickett. 2,590,458, Mar. 25.
Mechanical actuator. V. A. Hoover. 2,590,251, Mar 25.
Metalworking lubricant. G. L. Perry. 2,590,451, Mar. 25.
Metallising process and apparatus. C A. Melsheimer. 2,590,557, Mar. 25.
Meter: *See*—
Brightness meter. Gravity meter.
Fluid meter. Maximum demand meter.
Micrometer height gauge. H. W. Pittenger. 2,590,455, Mar. 25.
Microtomes. O. Slnger 2,590,725, Mar. 25.
Mineral separation. J. Colin, R. Burr, and A. Gafanesch. 2,590,756, Mar. 25.
Minnow transport container. C. C Campbell. 2,590,376, Mar. 25.
Modified tall oil esters and preparing the same. A. F. Schmutzler. 2,590,655, Mar. 25.
Modulation system and method W. E. Bradley. 2,590,373, Mar. 25.
Mole chisel plow attachment. R. E. Gilbert. 2,590,399, Mar. 25.
Mole trap. E. V Bailey. 2,590,489, Mar. 25.
Molybdenum-containing fertilizer. A. L. Stillman. 2,590,474, Mar. 25.
Mounting: *See*—
Fishing spoon hook mounting.
Mounting clip for regulators. J. B Parsons. 2,590,450, Mar. 25.
Mouthpiece. V. J. Oddo, Jr. 2,590,118, Mar. 25.
Movie projector safety device P. Giuffrida. 2,590,604, Mar. 25.
Mower cutter bar guard. J. E. Novak. 2,590,788, Mar. 25.
Multiple disk filter. C. J Fusco. 2,590,242, Mar. 25.
Multiple image projector. D. W. Epstein. 2,590,240, Mar. 25.
Multistage sleeve valve. F. H Rued. 2,590,466, Mar. 25.
Multiple spindle drill apparatus. J. L. Weaver. 2,590,283, Mar. 25.
Multispeed transmission and automatic transmission control. R. Chilton 2,590,232, Mar. 25.
Needle structure, Mending. H. Bueche-Rossé. 2,590,375, Mar. 25.
Nesting marketing carrier. J. D. Wiltshire 2,590,285, Mar. 25.
Nitrobenzeneazo-N-difluoroalkyl-N-hydroxyalkylaniline dye compounds. J. B. Dickey. 2,590,092, Mar. 25
Nodulizing process and apparatus. F. D. De Vaney. 2,590,090, Mar. 25
Nursing bottle holder. R. M. Dean. 2,590,383, Mar. 25.
Oil-bath intake-air filter. A. Duwos. 2,590,520, Mar 25.
Oil check for piston rings. S. S. Slyk. 2,590,278, Mar. 25.
Oil seal. R S. Gregoire. 2,590,696, Mar. 25.
Oil well swivel. R. L. Crain. 2,590,512, Mar. 25.
1-hydroxy naphthyl alkenoic acids and certain salts thereof. R. R. Burtner 2,590,086, Mar. 25.
Operating rod for electric switches. E. J. Frank and C. W. Driver. 2,590,765, Mar. 25.
Orientation system P. A. Noxon. 2,590,428, Mar. 25.
Orthopedic bone aligning and fixing mechanism. H. Wagner and R. Anderson. 2,590,739, Mar. 25.
Oscillator controlled relay circuit. R. T. Schenck. 2,590,826, Mar 25.
Oscillatory timing mechanism. C. Anderson. 2,590,365, Mar. 25.
Outboard motor steering bar. W. Jedlicka. 2,590,820, Mar. 25.
Outsole roughing machine E. W. Stacey. 2,590,136, Mar. 25.
Package end sealing mechanism. O. Sandberg. 2,590,127, Mar. 25.
Package filling machine. J. E. Fenno. 2,590,817, Mar 25.
Packaging of nails and the like. B. D. Williams. 2,590,358, Mar. 25.
Pad: *See*—
Heating pad.
Page and bookmark, Removable C. Heckendorn. 2,590,615, Mar. 25.
Pants guard for coat hangers, Slip resistant. W. F. Tufts. 2,590,738, Mar. 25.
Paper machine, Cylinder type. R. H Breyfogle and R. F. Hollis. 2,590,288, Mar. 25.
Parasiticide composition. O. H. Hammer. 2,590,818, Mar. 25.
Partial oxidation of hydrocarbons using gaseous sulfur trioxide. W. H. Reeder, III. 2,590,124, Mar. 25.
Pen, Play. W. E. Hawley, Jr 2,590,315, Mar. 25.
Peptone and amino acid containing extracts from press water, Preparation of. C. Drankshoit. 2,590,517, Mar. 25.
Perspective drafting device. E. E Hurst and J. W. Paxton. 2,590,252, Mar. 25.
Phase advance circuit. C. M. Gilbert. 2,590,528, Mar. 25
Phonograph pickup, Push-pull resistance type. J. H. McKnight. 2,590,439, Mar. 25
Photochemical chlorination of hydrocarbons. A. Loverde. 2,590,426, Mar. 25.
Photographic multilayer stripping film. J. H. Coote and W H. Gathercole. 2,590,296, Mar. 25.
Picking machine. A. J. Kay. 2,590,326, Mar. 25.
Pile fabrics, Making. F. P. Groat. 2,590,608, Mar 25.
Pile wire. F. P. Groat and H. W. Hill. 2,590,609, Mar 25.
Pinticket manufacturing and attaching machine. R. W. Clauss. 2,590,088, Mar 25.
Pipe: *See*—
Smoking pipe.
Pipe joint. A. E. Osborn. 2,590,565, Mar. 25.
Piston apparatus comprising a bell crank cam drive. H. Binla. 2,590,573, Mar 25.
Piston type differential pressure gauge for rate of flow indicators. M. Taylor. 2,590,583, Mar. 25.
Pitter, Olive. M. C. Pastore 2,590,268, Mar. 25.
Plant for the production of compressed air. C. Keller. 2,590,545, Mar. 25.
Plate warmer V. and W. Kobler. 2,590,418, Mar. 25.
Pliers, Intermediate jaw. I. F. Matthysse and H. P. Dupre. 2,5890,261, Mar. 25.
Plug: *See*—
Fishing plug.
Pole climber with automatic impact drive. R. A. Merrill 2,590,338, Mar. 25.
Polyethers and preparing the same. J. W. Copenhaver. 2,590,598, Mar. 25
Polymerization by means of stannic chloride and a promoter therefor. T. E. Jordan and E. L. Cline. 2,590,771, Mar. 25.
Portable air gauge H. H. Gates. 2,590,170, Mar. 25.
Portable collapsible ironing board. A. P. Lants. 2,590,551, Mar 25.
Portable sectional ironing board. A. P. Lantz. 2,590,254, Mar 25.
Portable traffic sign. G. M. Carter 2,590,506, Mar. 25.
Potted electrical subassembly. J. L. Kiser. 2,590,821, Mar 25.
Poultry dressing tool. W. G. Nealy. 2,590,785, Mar. 25.
Powder dispenser for brushes. M. A. Jardines. S. 2,590,413, Mar. 25.
Power actuated chuck. A. E. Church. 2,590,509, Mar 25.
Power amplifier tube. O. Heil. 2,590,100, Mar. 25
Power manipulated detachable gooseneck for trailers. C. C. Keesler. 2,590,181, Mar. 25.
Power-operated flying control system for aircraft. W. G. Lisle. 2,590,716, Mar 25.
Power supply. F. B. Gunter. 2,590,611, Mar. 25.
Preparation of lysozyme from ass milk. D M. Polo and A. G. Alarcon. 2,590,121, Mar. 25.
Pressure roller apparatus. E. H. Land 2,590,185, Mar. 25.
Pressure switch. J. C. Koonz and C. L. Piper. 2,590,419, Mar. 25.
Prestressed concrete structure. L. Coff. 2,590,685, Mar. 25.
Preventing the tarnishing of silverware, Method and material for. B. Egeberg, M. A. Orr, and J P. Phaneuf. 2,590,094, Mar. 25.
Printing and applying labels to wrapping paper, Method and apparatus for. J. L. Elsman. 2,590,239, Mar. 25.
Printing means. W. C. Huebner. 2,590,321, Mar. 25.
Printing telegraph apparatus. G. Lanza. 2,590,421, Mar. 25.
Progressive dielectric heating. R. A. Nielsen. 2,590,562, Mar. 25.
Propeller pitch control apparatus. C. L. Muzzey. 2,590,199, Mar. 25.
Protector: *See*—
Venetian blind protector.
Pulsing circuit. J. W. Dehn and W. H. T. Holden. 2,590,514, Mar. 25.
Pump: *See*—
Blade driven rotary pump. Rotary pump.
Flat rotary pump. Screw pump.
Punch retainer with lock. J. F. Kopczynski. 2,590,548, Mar. 25.
Punching device. R. S. Leszczynski. 2,590,189, Mar. 25.
Purification of phenanthrene by azeotropic distillation. J. Feldman and M. Orchin. 2,590,096, Mar. 25.
Pusher conveyer with sectional trough. R. Tramblay. 2,590,802, Mar. 25.
Quaternary ammonium salts of 2,6-lupetidine. R. A. Robinson. 2,590,126, Mar. 25.
Quinoxalines and making same. J. Druey and P. Schmidt. 2,590,075, Mar. 25.
Rack: *See*—
Film rack. Food tray rack.
Rack for rolled goods, Magazine display and dispensing. R. C. Dent and D. P. and P. V. Pike. 2,590,384, Mar. 25.
Radar pulsing system. J. F. Gordon. 2,590,308, Mar. 25.
Railway wheel checking device. M. W. Gleskieng. 2,590,603, Mar. 25.
Razor, Mechanical. A. K. Peterson. 2,590,452, Mar. 25.

Razorstrop guard. D. W. Chamberlain. 2,590,289, Mar. 25.
Reactance tube circuit. C. W. Clapp. 2,590,753, Mar. 25.
Reading device, Bedside. C. F. Shepard. 2,590,657, Mar. 25.
Receptacle and making the same. S. S. Stevens. 2,590,221, Mar. 25.
Recorder, Telegraphic facsimile. E. T. Both. 2,590,294, Mar. 25.
Recording instrument for electrocardiographs, Electrical. J. Lukacs. 2,590,534, Mar. 25.
Recovery of organic acids. W. P. Burton and E. Solomon. 2,590,087, Mar. 25.
Reducing noises in refrigeration systems. S. F. Shawhan. 2,590,731, Mar. 25.
Reel: *See*—
Bait casting reel.
Reel control system. A. J. Winchester, Jr., and W. D. King. 2,590,666, Mar. 25.
Refining lubricating oil. B. C. Benedict. 2,590,490, Mar. 25.
Refrigerated case with forced circulation of air. E. Bockmeyer. 2,590,496, Mar. 25.
Regulator: *See*—
Aircraft cabin pressure regulator. Electrical regulator.
Regulator. O. L. Garretson. 2,590,396, Mar. 25.
Regulator for grinding and polishing machines, Automatic gauge. W. K. Lowe. 2,590,717, Mar. 25.
Regulator for turbojet engines, Differential fuel. E. C. Hartley. 2,590,312, Mar. 25.
Release means for toggle-actuated wrenches. B. Burns. 2,590,730. Mar. 25.
Removing skin from fleshy products, Method and apparatus for. C. Birdseye. 2,590,747, Mar. 25.
Rerailer. J. H. Perks, Sr. 2,590,344, Mar. 25.
Resin made from tannin, sulfuric acid, acetone, and potassium cyanide. V. Da Veiga. 2,590,760, Mar. 25.
Retaining device. L. H. Messinger. 2,590,196, Mar. 25.
Retaining windings on rotors. R. G. Le Tourneau. 2,590,255, Mar. 25.
Retarding impacts on railroad cars. A. A. Haas. 2,590,406, Mar. 25.
Reversible ratchet wrench. J. S. Dodge. 2,590,387, Mar. 25.
Revolving antproof cooler shelf. H. F. Coykendall. 2,590,380, Mar. 25
Ridged wave guide attenuator. F. B. Craig and R. H. Webb. 2,590,511, Mar. 25.
Roll blasting equipment. R. B. Huyett. 2,590,819, Mar. 25.
Rotary cultivating tool. A. V. Pettman. 2,590,790, Mar. 25.
Rotary electric switch. P. Silvius. 2,590,658, Mar. 25.
Rotary grinding table. C. O. Kamp. 2,590,325, Mar. 25.
Rotary pump. F. Scognamillo. 2,590,728, Mar. 25.
Rotary seal. V. F. Dale and G. Reed. 2,590,759, Mar. 25.
Rotation permitting assembly for poppet valves. E. S. MacPherson. 2,590,719, Mar. 25.
Rotor cylinder rotary device. F. Scognamillo. 2,590,132, Mar. 25.
Ruling guide for artists' pens. R. F. George. 2,590,243, Mar. 25.
Safety device for cooling systems. J. C. Slonneger. 2,590,135, Mar. 25.
Safety valve. O. L. Callahan. 2,590,679, Mar. 25.
Safety valve. V. H. Schnebel. 2,590,656, Mar. 25.
Salt and pepper shaker with slidable perforate valve plate for selective discharge, Combination. V. A. H. Maves. 2,590,437. Mar. 25.
Sand ring for insert pumps. D. T. Harbison. 2,590,245, Mar. 25.
Sandal, Slotted sole. C. A. Pitz. 2,590,648, Mar. 25.
Sash catch, Automatic. B. I. James. 2,590,624, Mar. 25.
Sawing machine, Power-operated radial. E. J. Osterhus. 2,590,119, Mar. 25.
Scaffold for handling sheet material. L. R. Henderson and A. C. Seago. 2,590,617, Mar. 25.
Scleroscope and clutching mechanism therefor. F. B. Aubert. 2,590,486, Mar. 25.
Screw and nut mechanism. G. Wüensch. 2,590,745, Mar. 25.
Screw driver, Screw holding. H. E. Noffsinger. 2,590,564, Mar. 25.
Screw pump. C. O. J. Montelius. 2,590,561, Mar. 25.
Screw pump. C. O. T. Montelius. 2,590,560, Mar. 25.
Sealing conductor end structures. H. J. Dixon. 2,590,160, Mar. 25.
Sealing device for regenerator apparatus. J. L. Armstrong. 2,590,293, Mar. 25.
Seat: *See*—
Adjustable child's seat.
Seat cover. W. L. Weaklend. 2,590,664, Mar. 25.
Seismic prospecting system. G. M. Groenendyke. 2,590,530. Mar. 25.
Selective keyboard clearing means. J. A. Maffie. 2,590,335. Mar. 25.
Selective squelch circuit. G. D. Hanchett, Jr. 2,590,310, Mar. 23.
Selector arrangement for seismic prospecting system. K. W. McLoad. 2,590,531, Mar. 25.
Self-contained rotary device. F. Scognamillo. 2,590,727, Mar. 25.
Separation of hydrogen chloride from nitric acid. L. A. Stengel. 2,590,828. Mar. 25.
Separation of solid substances of different specific gravity and grain size. F. J. Fontein. 2,590,691, Mar. 25.
Separator: *See*—
Condensate separator. Gas separator.
Cyclone separator.
Series lamp cutout. F. W. Godsey, Jr. 2,590,605, Mar. 25.
Shaft coupling. H. A. Brelsford. 2,590,287, Mar. 25.
Sheet delivery device for rotary printing machines. C. W. Johnson. 2,590,179, Mar. 25.
Shelf, Adjustable. A. G. Merkle and H. Eldridge. 2,590,195, Mar. 25.
Shelf for laundry tubs, Utility. W. W. Rigstad. 2,590,793, Mar. 25.
Shielded arc welding method and gas confining means. A. A. Bernard. 2,590,084, Mar. 25.
Shielded magnetic sound-head and tape-guide assembly. L. J. Anderson. 2,590,292, Mar. 25.
Shoe and making the same, Turned slip-lasted. G. F. Jonas. 2,590,707. Mar. 25.
Shrinkage resistance treatment of woolen goods. J. Zimmerman, H. W. Wolf, and L. I. Weiner. 2,590,811, Mar. 25.
Sign: *See*—
Portable traffic sign.
Signal to noise ratio of radar systems. C. W. Hansell. 2,590,405. Mar. 25.
Silent or seminoiseless vibrator. E. S. Cannon. 2,590,155, Mar. 25.
Siloxanes having hydrogen atom directly attached to silicon atoms. A. J. Barry. 2,590,812, Mar. 25.
Silver halide emulsion containing a thio-imino-urazole as a stabilizer. J. D. Kendall and D. J. Fry. 2,590,775, Mar. 25.
Silverware container. B. Egeberg, M. A. Orr, and J. P. Phaneuf. 2,590,095, Mar. 25.
Ski binding. D. A. Goodman. 2,590,097, Mar. 25.
Ski binding. J. Lehmkuhl. 2,590,424, Mar. 25.
Sleeve for bag valves. H. Peters and C. D. Pierson. 2,590,568. Mar. 25.
Sleeve type fastening device for resilient plastic articles and the like. G. L. Meyers and J. C. Shutt. 2,590,264. Mar. 25.
Slidable side jaw wrench. C. R. Reneer. 2,590,792, Mar. 25.
Slide changing device for stereopticon projectors. F. P. Bennett and A. E. Webb. 2,590,492, Mar. 25.
Slide for hookless fasteners. S. J. Lackritz. 2,590,106, Mar. 25.
Slip expander assembly for well tools. C. C. Brown. 2,590,502. Mar. 25.
Slotting the shanks of screw fasteners. F. K. Brown. 2,590,597. Mar. 25.
Smoking pipe. E. P. Bade. 2,590,488, Mar. 25.
Snow melting apparatus. M. Hoffman. 2,590,701, Mar. 25.
Snowplow construction. W. J. Adams, Jr., and D. E. Fischer. 2,590,143. Mar. 25.
Socket for electrical hardware and fittings, Making. C. S. Card. 2,590,229. Mar. 25.
Solutions of polyamides in solvent mixtures. J. B. Nichols. 2,590,642. Mar. 25.
Sorting device. A. E. Joel, Jr. 2,590,625, Mar. 25.
Sound level and sound integrating device. C. A. Rackey and T. H. Phelan. 2,590,460. Mar. 25.
Sound maker for toys and other devices. G. Wintriss. 2,590,743. Mar. 25.
Soybean powder bases and products. E. K. Pettibone. 2,590,647. Mar. 25.
Speed control system. J. M. Pestarini. 2,590,120, Mar. 25.
Speed responsive device with fluid pressure modifier. D. L. Mordell and J. B. Holliday. 2,590,340, Mar. 25.
Spice can holder. R. Burdett. 2,590,149, Mar. 25.
Spining machine, Ring. N. Hooper. 2,590,621, Mar. 25.
Spoon holder. C. A. and E. R. Wirtanen. 2,590,286, Mar. 25.
Spray device, Tractor mounted. R. F. Broyhill. 2,590,677, Mar. 25.
Sprayer, Tree. T. E. Golinick. 2,590,400, Mar. 25.
Spring assembly, Variable rate. A. S. Krotz. 2,590,711, Mar. 25.
Spring suspension means for vehicles. T. E. Rasmussen. 2,590,791. Mar. 25.
Sprinkler, Orchard or lawn. M. B. Sawyer, Sr. 2,590,726, Mar. 25.
Stabilized tall oil amines, Preparation of. S. T. Putnam. 2,590,571, Mar. 25.
Stabilized tall oil nitriles, Preparation of. S. T. Putnam. 2,590,570. Mar. 25.
Stable lithium hypochlorite composition. H. L. Robson. 2,590,794. Mar. 25.
Stable suspensions of coal particles, Manufactnre of A. L. Stillman. 2,590,733. Mar. 25.
Stainless steel process and product. F. K. Bloom. 2,590,074, Mar. 25.

Starting of internal-combustion engines. C. J. Moody. 2,590,445, Mar. 25.
Steam generator. K. F. Nordlund. 2,590,117, Mar. 25.
Steering means for vehicles. M. B. Robinson. 2,590,574, Mar. 25.
Stereoscopic film viewer. G. M. Mast and W. K. Gannett. 2,590,260, Mar. 25.
Sterilizer for feed bags and other articles. A. J. Balshi. 2,590,367, Mar. 25.
Stoking apparatus fuel storage bin and conveyer. C. E. Shaffer and A. B. Fisher, Jr. 2,590,133, Mar. 25.
Stool. L. P. Danielson. 2,590,382, Mar. 25.
Stopping device for tape in magnetic recorders. A. L. W. Williams. 2,590,665, Mar. 25.
Storing and recovering peat. F. E. Pierce. 2,590,205, Mar. 25.
Striking lugs of headed form from a metal sheet. B. J. Voslamber. 2,590,807, Mar. 25.
Structure. D. A. and P. E. Wallace. 2,590,588, Mar. 25.
Suction massage device. F. Fluck. 2,590,527, Mar. 25.
Sugar diffusing apparatus. J. P. Ruth. 2,590,578, Mar. 25.
Supplemental throttle controlling device. A. V. T. Houser. 2,590,320, Mar. 25.
Support: *See*—
  Garment drying rack support.
Supporting clip. S. Skok. 2,590,277, Mar. 25.
Surgical lighting. H. L. Logan. 2,590,191, Mar. 25.
Suture package holder. S. Solowey. 2,590,799, Mar. 25.
Switch: *See*—
  Blasting switch.
  Pressure switch.
  Rotary electric switch.
Synthesis of streptamine. M. L. Wolfram and S. M. Olen. 2,590,831, Mar. 25.
System for producing an encoding device. B. Lippel. 2,590,110, Mar. 25.
Table: *See*—
  Rotary grinding table.
Tachistoscope. U. K. Henschke and H. A. Mauch. 2,590,101, Mar. 25.
Tail gate lift assembly, Adjustable. H. E. Winkler. 2,590,591, Mar. 25.
Tall oil modified alkyd resins and preparing the same. A. F. Schmutzler. 2,590,653, Mar. 25.
Tank joint. M. Unger and M. H. Bates. 2,590,803, Mar. 25.
Tape-serving mechanism. A. P. Krueger and O. P. Erhardt. 2,590,549, Mar. 25.
Teakettle. M. S. Ziskin and R. B. Billig. 2,590,596, Mar. 25.
Telephone handset attachment. A. R. Vogel. 2,590,481, Mar. 25.
Telephone ringer. H. A. Bredehoft and M. S. Richardson. 2,590,500, Mar. 25.
Television film scanner. G. C. Szikiai and A. V. Bedford. 2,590,281, Mar. 25.
Temperature compensated means for measuring differential pressures. B. Jones. 2,590,324, Mar. 25.
Temperature-responsive throttling valve. C. D. MacCracken and C. W. Wood. 2,590,112, Mar. 25.
10-(quaternary-ammonium alkyl) phenothiazine salts. R. A. Robinson and J. W. Cusic. 2,590,125, Mar. 25.
Tension yoke for compression load weighing units. E. J. Jones. 2,590,626, Mar. 25.
Tensioning device. T. B. Keesling. 2,590,183, Mar. 25.
Tertiary alcohols. E. G. E. Hawkins and F. E. Salt. 2,590,176, Mar. 25.
Tertiary amine salts of 3,7-diaminodibenzothiophenedioxide 2,8-disulfonic acid. R. S. Long and S. M. Tsang. 2,590,632, Mar. 25.
Tertiary butyl amines and their preparation. L. L. Abell, W. F. Bruce and J. Seifter. 2,590,079, Mar. 25.
Textile printing. E. Owren and E. Karolczuk. 2,590,643, Mar. 25.
Thermometer, Furnace. G. L. Schwarz. 2,590,276, Mar. 25.
Thread feeding device for thread testing machines. W. Gegenschatz. 2,590,398, Mar. 25.
Threading attachment for lathes. A. E. Armstrong. 2,590,224, Mar. 25.
Thrust bearing for disk plows. J. J. Schermuly. 2,590,468, Mar. 25.
Thyratron modulator. J. P. Hagen and A. H. Ryan. 2,590,098, Mar. 25.
Time recording apparatus for race tracks. D. J. Doyle. 2,590,389, Mar. 25.
Toilet tissue holder cover. W. M. Lauton. 2,590,552, Mar. 25.
Tool: *See*—
  Adjustable tool.
  Explosively actuated bonding tool.
  Hand-operated motor-driven radial machine tool.
  Machine tool.
  Poultry dressing tool.
  Rotary cultivating tool.
Tool ejector. C. E. Linden and F. O. Wetzel. 2,590,629, Mar. 25.
Tool for casing protuberances, Feeler. E. L. Condra. 2,590,233, Mar. 25.
Tool for removing hub caps. F. J. Brugmann. 2,590,150, Mar. 25.
Toolhead with adjustment indicator. G. H. Lagher. 2,590,420, Mar. 25.
Torque mechanism. H. P. McAlister. 2,590,635, Mar. 25.
Torsional drive shaft. D. E. Fritz. 2,590,169, Mar. 25.
Torsional vibration damper. G. F. Sarazin. 2,590,579, Mar. 25.
Toy bank. A. Pudark and H. Rapaport. 2,590,271, Mar. 25.
Toy, Bubbling liquid. M. Soss. 2,590,279, Mar. 25.
Toy, Children's wheeled. M. D. Sacks. 2,590,467, Mar. 25.
Toy, Educational. W. S. Brodes. 2,590,501, Mar. 25.
Toy gun holster and package, Combination. A. F. Langos. 2,590,187, Mar. 25
Toy logging truck and trailer. E. J. Dornath. 2,590,388, Mar. 25.
Toy railroad, Cabineted. N. C. H. Bradley. 2,590,676, Mar. 25.
Toy swinging crane. I. Landree. 2,590,188, Mar. 25.
Toy telephone, Candy containing musical. T. H. Stough. 2,590,476, Mar. 25.
Toy, Wheeled. P. A. Derham. 2,590,515, Mar. 25.
Toy with automatic door. R. N. Carver and R. J. Lohr. 2,590,508, Mar. 25.
Track circuit apparatus using alternating current. C. Volz. 2,590,483, Mar. 25.
Track locating device for toy trains. W. Henderson. 2,590,317, Mar. 25.
Tractor hitch. A. Nielsen. 2,590,201, Mar. 25.
Tractor hitch. D. F. Steil. 2,590,218, Mar. 25.
Tractor jack. E. A. Arnold. 2,590,361, Mar. 25.
Tractor mowing attachment. G. W. Holmes. 2,590,537, Mar. 25.
Trailer brake operating link. D. P. Durham. 2,590,238, Mar. 25.
Transmission. C. L. Swift. 2,590,280, Mar. 25.
Trap: *See*—
  Animal trap.
  Mole trap.
Traveler. G. A. Petersen. 2,590,645, Mar. 25.
Traverse curtain support and pulley housing. R. E. Bell. 2,590,370, Mar. 25.
Tray, Book. F. M. Simancik. 2,590,732, Mar. 25.
Treating hides and skins with liquid, Method of and machine for. M. Maeser. 2,590,194, Mar. 25.
Treating yellowish or off-white materials to obtain a white appearance using umbelliferone or methyl umbelliferone. H. Meyer. 2,590,485, Mar. 25.
Treatment of wines. J. H. Fessler. 2,590,076, Mar. 25.
Treatment of wool with N-chlorine compounds. C. Earland, J. L. Bailey and D. Carter. 2,590,390, Mar. 25.
Trigger safety for firearms. M. A. de von Breymann. 2,590,516, Mar. 25.
Trimming for license plates. C. C. Floyd and J. H. Narron. 2,590,763, Mar. 25.
Truck, Industrial. G. L. Turner and F. Sherriff. 2,590,355, Mar. 25.
Truck, Railway. D. S. Barrows. 2,590,360, Mar. 25.
Trunk frame designation transfer. R. K. McAlpine. 2,590,262, Mar. 25.
Tube: *See*—
  Color television image tube.
  Power amplifier tube.
Tubular chart device. C. H. W. Hartmann. 2,590,313, Mar. 25.
Tunnel lining form. R. E. Clapp. 2,590,683, Mar. 25.
Turbidimeter. R. F. Stamm and T. Mariner. 2,590,827, Mar. 25.
Turning lathe for shoe lasts. G. Clausing. 2,590,378, Mar. 25.
Twist barrier for double twist spindles. R. S. Bley. 2,590,372, Mar. 25.
2-cyclohexyl and 2-cyclohexylidene-1-(3-piperidino-propyl)-cyclohexanols. K. Miescher and A. Marxer. 2,590,638, Mar. 25.
2,2'-dihydroxy-3-hydroxymethyl-5,5'-dichlorodiphenylmethane. H. E. Faith. 2,590,816, Mar. 25.
V belt power transmission system. D. L. Kessler and W. S. Worley. 2,590,182, Mar. 25.
Vacuum breaker. A. C. Dobrick. 2,590,386, Mar. 25.
Vacuum cleaner. G. H. Cranmer. 2,590,235, Mar. 25.
Vacuum cleaner for barber chairs. C. E. Bezanson. 2,590,673, Mar. 25.
Vacuum cleaner with sterilizing means. J. P. Buckey. 2,590,152, Mar. 25.
Vacuum tube comparator. W. P. Moland and H. H. Ferris. 2,590,116, Mar. 25.
Valve: *See*—
  Automatic shutoff valve.
  Double check quick filler valve.
  Excess flow check valve.
  Gas valve.
  Glass controlled dispensing valve.
  High-pressure valve.
  Multistage sleeve valve.
  Safety valve.
  Temperature-responsive throttling valve.
  Variable throat restricter valve.
  Vessel filling valve.
Valve. R. F. Beck. 2,590,368, Mar. 25.
Valve. C. E. Bodey. 2,590,674, Mar. 25.
Valve. R. F. Hollis. 2,590,318, Mar. 25.
Valve apparatus for fuel distributing systems. A. H. Lockheed and H. T. Seale. 2,590,333, Mar. 25.
Valve cage. D. T. Harbison. 2,590,244, Mar. 25.
Valve controlling apparatus, Pneumatically actuated. H. N. Rider. 2,590,347, Mar. 25.
Valve device. I. E. Coffey. 2,590,686, Mar. 25.

Valve for expansible chamber windshield wiper motors, Parking. D. H. Stoltenberg. 2,590,475, Mar. 25.
Valve for flexible hose. L. A. Chase. 2,590,290, Mar. 25.
Valve for hydraulic machine tools, Back-pressure. R. E. Herrstrum. 2,590,769, Mar. 25.
Valve for pressure cookers, Safety and release. F. J. Holbik. 2,590,620, Mar. 25.
Valve mechanism for soot blowers. S. E. Meyers. 2,590,441, Mar. 25.
Variable impedance device. M. C. Thompson, Jr. 2,590,282, Mar. 25.
Variable selectivity panoramic system. M. Wallace. 2,590,809, Mar. 25.
Variable speed transmission. H. M. Stephenson. 2,590,800, Mar. 25.
Variable throat restricter valve. F. C. Sausa. 2,590,215, Mar. 25.
Vehicle steering mechanism. V. I. Dudley. 2,590,300, Mar. 25.
Velocity-control mechanisms, Adjustable. F. Freudenstein. 2,590,692, Mar. 25.
Venetian blind, Acoustical. H. K. Phillips. 2,590,204, Mar. 25.
Venetian blind protector. M. A. and A. A. Guarino. 2,590,767, Mar. 25.
Ventilated cap. H. Lev. 2,590,190, Mar. 25.
Ventilated light-responsive lamp-changing mechanism for lighting units. R. E. Crossley and H. M. Pattat. 2,590,513, Mar. 25.
Vessel, Cooking. R. J. Pratt. 2,590,270, Mar. 25.
Vessel filling valve. R. F. Quam. 2,590,206, Mar. 25.
View finder centering device for photographic apparatus. M. N. Fairbank. 2,590,164, Mar. 25.
Vinyl chloride, Preparation of. R. B. Young. 2,590,810, Mar. 25.
Voltage regulation system. C. Juhola. 2,590,180, Mar. 25.
Voltage sensitive circuit. W. H. T. Holden. 2,590,248, Mar. 25.
Vulcanization of rubber with aromatic sulfonamide activators. A. Tomlin. 2,590,737, Mar. 25.
Waistband. M. Heller. 2,590,616, Mar. 25.
Washer: *See*—
  Air washer.
Washing apparatus. C. H. Schaar and G. J. Zilligen. 2,590,353, Mar. 25.
Water closet, Close-coupled. H. F. Smith. 2,590,471, Mar. 25.
Water distributing apparatus for evaporative coolers. V. C. Lehmann. 2,590,779, Mar. 25.
Weighing machine, Check. S. R. Howard and R. W. Vergobbi. 2,590,704, Mar. 25.
Welding cabinet. R. Ruemelin. 2,590,577, Mar. 25.
Welding control. C. B. Stadum and W. E. Large. 2,590,582, Mar. 25.
Well conductor perforating gun. W. R. Atwood. 2,590,366, Mar. 25.
Well manifold. R. L. Crain. 2,590,688, Mar. 25.
Well rod grab. R. E. Axelstrom. 2,590,487, Mar. 25.
Wheel: *See*—
  Car wheel.
Wheel adaptable to different hubs. A. G. Adair. 2,590,363, Mar. 25.
Wheel aligning device. N. G. Otis. 2,590,722, Mar. 25.
Winch. G. S. Grosch. 2,590,610, Mar. 25.
Winding in collector machine. J. Delastre, L. Galzin, and P. Letrilliart. 2,590,298, Mar. 25.
Window for vehicles, Movable. J. H. Orr. 2,590,448, Mar. 25.
Wire connector. E. E. Noyes. 2,590,789, Mar. 25.
Wire feeding machine. R. C. Vorderstrasse. 2,590,806, Mar. 25.
Working up the waste liquor of fermentation industries in which molasses are used. M. P. J. M. Jansen. 2,590,412, Mar. 25.
Wrap stripe stop motion. D. G. Longtin. 2,590,193, Mar. 25.
Wrapping generally cylindrically shaped articles. O. Sandberg. 2,590,128, Mar. 25.
Wrapping machines for lightly compressed granules. W. E. MacKenzie. 2,590,427, Mar. 25.
Wrench: *See*—
  Gear-operated socket wrench.
  Reversible ratchet wrench.
  Slidable side jaw wrench.
Wrench case. A. J. Gibson. 2,590,307, Mar. 25.
Wringer assembly having interconnected roll pressure and drive. W. B. Beuscher. 2,590,494, Mar. 25.
Yarn twister for spinning frames. H. M. Brown. 2,590,374, Mar. 25.

CLASSIFICATION OF PATENTS

ISSUED MARCH 25, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,590,091:	318—28	2,590,206:	226—124	2,590,325:	308—163	2,590,481:	179—188	2,590,596:	87—1	2,590,726:	299—69
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Classification of Designs

D 1—12: Des. 166,266	D40— 1: Des. 166,267	D47— 7: Des. 166,240	D54—12: Des. 166,237	D59— 2: Des. 166,273	D85— 2: Des. 166,272
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Condition of Applications Under Examination at Close of Business March 7, 1952

Total number of patent applications awaiting action, 103,252. Date of oldest new application, May 12, 1951; date of oldest amended application, May 12, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	5-23-51	5-24-51	2165
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	8-13-51	8-7-51	1130
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	8-1-51	8-1-51	1602
4. FALLER, E. A., (Acting Chief), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	5-18-51	5-16-51	1915
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	7-18-51	7-23-51	1262
6. SURLE, H., Carbon Chemistry (part)	6-6-51	6-12 51	1847
7. GONSALVES, J. E., Optics; Photography (part)	8-3-51	8-2-51	1251
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	5-25-51	5-24-51	1768
9. BRANSON, J. H. (Acting), Pumps and Fans; Fluid Motors	5-24-51	5-24-51	1511
10. ANDRUS, L. M., Radiant Energy (part, e. g., Portable Radio Sets, Radio Accessories, Detectors, Oscillation Generators, Wave Meters, Tuners); Music; Modulators; Piezo-electric Crystals.	6-2-51	5-28-51	1321
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	6-16-51	6-9-51	925
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	6-6-51	5-28-51	1164
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	5-23-51	5-19-51	1325
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	5-16-51	5-19-51	1674
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	8-10-51	7-28-51	1099
16. LOVEWELL, N. N., Television, Telephony	5-14-51	5-14-51	1268
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	5-25-51	5-26-51	1960
18. KURZ, J. A., Power Plants; Speed Responsive Devices	5-28-51	5-24-51	1330
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	5-28-51	6-9-51	1100
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	6-15-51	6-16-51	1444
21. MADER, R. C., Textiles	5-21-51	5-21-51	1389
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	6-5-51	6-2-51	1151
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	5-21-51	5-15-51	828
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	7-5-51	6-22-51	1490
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	6-16-51	6-15-51	1168
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	6-1-51	6-4-51	1197
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	6-7-51	6-11-51	1584
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	6-6-51	6-8-51	1377
29. HABECKER, L. B., Baggage; Cloth, Leather, and Rubber Receptacles; Button Making; Woodworking; Tools.	6-1-51	6-6-51	1112
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	7-16-51	7-16-51	1510
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	7-6-51	6-22-51	2006
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-15-51	6-15-51	1211
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	6-1-51	6-2-51	2067
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	6-16-51	6-11-51	1358
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	5-24-51	5-25-51	1535
36. McFADYEN, A. D., Measuring and Testing	5-25-51	5-28-51	1318
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	6-21-51	6-19-51	1194
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	6-16-51	6-8-51	1456
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	6-14-51	6-14-51	2531
40. DRUMMOND, E. J., Receptacles (part); Packages	6-9-51	6-4-51	1484
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	6-2-51	5-22-51	1233

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 103,252. Date of oldest new application, May 12, 1951; date of oldest amended application, May 12, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
42. MABANS, H., Telegraphy (part); Electric Signaling; Signals and Indicators; Signs	6-9-51	6-11-51	1172
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	7-16-51	7-10-51	1225
44. HARVEY, L. P., Beds; Chairs, Seats	6-1-51	6-1-51	1436
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	6-12-51	6-5-51	1391
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	5-17-51	6-13-51	901
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	6-28-51	6-21-51	1388
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	5-24-51	5-22-51	1606
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	6-1-51	6-1-51	1525
50. LEVIN, S., Synthetic Resins	8-23-51	8-16-51	1498
51. YAFFEE, S., Radiant Energy (part e. g., Radio Transmission and Reception, Transmitters, Receivers, Antennae); Radiant Energy Communications.	5-14-51	5-12-51	1315
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	6-8-51	6-8-51	2134
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	7-14-51	7-2-51	1052
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	6-12-51	6-8-51	1632
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	6-12-51	5-31-51	1112
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	6-15-51	6-15-51	1808
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	6-9-51	6-4-51	1846
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Bottles and Jars; Closure Operators.	6-7-51	5-24-51	1007
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	6-14-51	5-28-51	1124
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	6-22-51	7-6-51	1112
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	6-6-51	6-7-51	1209
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	5-25-51	6-4-51	1450
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	6-9-51	6-8-51	1502
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	8-2-51	8-3-51	1780
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	6-15-51	6 12-51	1482
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	5-17-51	5-23-51	1109
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	6-18-51	6-18-51	1217
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	5-25-51	5-23-51	1712
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	6-1-51	5-29-51	1325
70. BREWRINK, J. L., Firearms, Ordnance; Ammunition and Explosive Charge Making; Explosive Devices and Composition; Mass Spectrometry; Actinide Series Chemical Elements; Miscellaneous Electrical, Radiant and Wave Energy Chemistry.	5-12-51	5-12-51	3345
DESIGNS: A. BREHM, G. L., Industrial Arts	11-8-51	11-13-51	682
B. GRAY, M. A., Household, Personal and Fine Arts	11-9-51	11-13-51	745

Total number of trade-mark applications awaiting action (including renewals and republications), 14,886. Date of oldest new application, August 19, 1951; date of oldest amended application, August 20, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	8-19-51	8-20-51	4631
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	9-13-51	9-13-51	3102
Renewals (All Classes)	1-4-52	2-2-52	739
Republications (All Classes)	1-23-52	2-2-52	208
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	9-17-51	9-14-51	3467
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	10-4-51	9-27-51	2739

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

UNITED STATES *v.* NEW WRINKLE, INC., ET AL.

No. 250. Decided February 4, 1952

[— U. S. —; 92 USPQ 158]

1. PATENTS—LICENSES—COVERED BY SHERMAN ACT WHEN USED TO RESTRAIN COMMERCE.

Held that patent license contracts, although not in themselves interstate commerce, are covered by the prohibitions of section 1 of the Sherman Act where the licenses are used in a scheme to restrain commerce.

2. SAME—SAME—POSSESSION OF PATENT DOES NOT EXEMPT FROM SHERMAN ACT.

Although the Bement and General Electric cases (*Bement & Sons* v. *National Harrow Co.*, 186 U. S. 70, 101 O. G. 887; *United States* v. *General Electric Co.*, 272 U. S. 476) allowed a patentee to license a competitor in commerce to make and vend, with a price limitation controlled by the patentee, it was pointed out in the Line Material decision (*United States* v. *Line Material Co.*, 333 U. S. 287) that the possession of a valid patent or patents does not give the patentee any exemption from the provisions of the Sherman Act beyond the limits of the patent monopoly.

3. SAME—SAME—POOLING OF PATENTS TO FIX PRICES VIOLATES SHERMAN ACT.

Where competitors in an industry assigned their patent rights to a corporation organized for that purpose and the corporation granted uniform patent licenses, including price fixing limitations to the assignees and substantially all other manufacturers in the field, *Held* that such acts, in purpose and result, plainly violate the Sherman Act.

APPEAL from District Court for Southern District of Ohio.

REVERSED.

Charles H. Weston (*Philip B. Perlman*, *H. G. Morison*, *Robert L. Stern*, and *Daniel M. Friedman* of counsel) for appellant.

H. A. Toulmin, Jr., for appellees.

MR. JUSTICE REED delivered the opinion of the Court.

This suit against New Wrinkle, Inc., and The Kay & Ess Co. was instituted in the United States District Court for the Southern District of Ohio by the United States as a civil proceeding under § 4 of the Sherman Act.[1] Defendants are charged with having violated § 1 of that law[2] by conspiring to fix uniform minimum prices and to eliminate competition throughout substantially all of the wrinkle finish industry[3] of the United States by means of patent license agreements. Motions to dismiss the suit were filed by defendants. The defendants Kay & Ess urged that the complaint failed to state a cause of action. Defendant New Wrinkle pressed a sole contention: that it was not then and never had been engaged in interstate commerce and could, therefore, not be guilty of violating the Sherman Act.

The district court, without opinion, thereafter entered separate judgments as to each defendant dismissing the complaint and reciting in each judgment that the motion to dismiss was "well taken." A petition for appeal was filed and allowed, and on October 8, 1951 [91 USPQ —], probable jurisdiction was noted on direct appeal pursuant to a jurisdiction conferred on this Court by § 2 of the Expediting Act of February 11, 1903. 15 U. S. C. § 29.

I. In granting the motions of defendants, the district court, of course, treated the allegations of the complaint as true. In substance the complaint charges that prior to and during 1937, defendant Kay & Ess was engaged in litigation with a named coconspirator, the Chadeloid Chemical Co., in regard to certain patents covering manufacture of wrinkle finish enamels, varnishes and paints. Each company claimed it controlled the basic patents on wrinkle finish, contending that the patents of the other were subservient to its own. Negotiations throughout 1937 resulted in a contract entered into by Kay & Ess and Chadeloid on November 2, 1937. This contract made provision for the organization of a new corporation, the defendant New Wrinkle. Both Kay & Ess and Chadeloid agreed to accept stock in the new company in exchange for assignments of their wrinkle finish patents. New Wrinkle was to grant patent licenses, incorporating agreements which fixed the minimum prices at which all licensed manufacturers might sell, to the manufacturers in the wrinkle finish industry, including Kay & Ess and Chadeloid. The price-fixing schedules were not to become operative until twelve of the principal producers of wrinkle finishes had subscribed to the minimum prices prescribed in the license agreements.

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Pursuant to this arrangement, the complaint charges New Wrinkle was incorporated, and the patent rights of Kay & Ess and Chadeloid were transferred to it. In conjunction with other named companies and persons, the defendants and Chadeloid thereafter worked together to induce makers of wrinkle finishes to accept the price-fixing patent licenses which New Wrinkle had to offer. These prospective licensees were advised of the agreed-upon prices, terms and conditions of sale in the New Wrinkle licenses, and they were assured that like advice was being given to other manufacturers "in order to establish minimum prices throughout the industry." After May 7, 1938, when the requisite twelve leading manufacturing companies had accepted New Wrinkle licenses, the price schedules became operative. By September 1948, when the complaint was filed in this action, more than two hundred, or substantially all, manufacturers of wrinkle finishes in the United States held nearly identical ten-year extendable license agreements from New Wrinkle. These agreements required, among other things, that a licensee observe in all sales of products covered by the licensed patents a schedule of minimum prices, discounts and selling terms established by the licensor New Wrinkle. Upon thirty days' notice in writing, New Wrinkle might alter any or all of the terms of the price schedule, but such prices, terms and discounts as New Wrinkle might establish were to bind the licensee only if imposed at the same time and in the same terms upon the licensor and all other licensees.[4] Termination provisions in the agreements required a licensee to give three months' written notice and allowed the licensor to terminate the license if a licensee failed to remedy a violation of the agreement within thirty days after written notice thereof by the licensor. A 5-cent per gallon royalty was made payable on all wrinkle finish sold or used by a licensee, said royalty to be reduced to the same figure as that contained in any subsequent license granted at a lower royalty charge.

New Wrinkle, acting with the consent of its licensees, issued at intervals "License Rulings" giving minimum prices, detailed terms and conditions such as allowable discounts and permissible practices. The requirements of these "Rulings" were adhered to by the licensees. Since an entire copy of "License Rulings," as filed with the complaint as an exhibit, is too bulky for reprinting, the schedule of prices operative at the time of the filing of the complaint in this action, as illustrative, is set out in an appendix to this opinion. It precisely details and makes rigid the selling procedure for a variety of minutely prescribed products deemed to be covered by the patents and the license agreements.

II. Since the motions to dismiss must be deemed to admit all of the above as true, we need only consider whether or not these facts would establish a violation of § 1 of the Sherman Act by appellees, New Wrinkle and Kay & Ess.

Appellee, New Wrinkle, differs from Kay & Ess. New Wrinkle is not a manufacturer of the commodities covered by its patents. It is solely a holder or owner of the patents, granting the right of making and vending to others. Kay & Ess does manufacture under the New Wrinkle license. New Wrinkle urges that its abstention from manufacturing activities and concentration on patent licensing insulates its activity from the prohibitions of § 1 of the Sherman Act. Persons engaged exclusively in licensing patents are said by appellee to be exempt from the Sherman Act because such contracts are not commerce and are functions solely controlled by the patent laws. For the contention that its licensing is not commerce, reliance is placed on *New York Life Ins. Co.* v. *Deer Lodge County*, 231 U. S. 495, and cases involving such local incidents of interstate commerce as were treated in *United Shoe Machinery Co.* v. *United States*.[5] For the latter contention, if we understand the argument correctly, New Wrinkle asserts that since patents give their owners a right to sell, they may do so on such terms as they please because they are merely selling personal services, and such services are not commerce, citing *Apex Hosiery Co.* v. *Leader*, 310 U. S. 469, 502, a case holding a strike to unionize a factory did not violate the Sherman Act.

These contentions leave out of consideration the allegations of the complaint concerning the alleged combination in restraint of trade. The United States charges the use of patent licenses as an essential part of the plan to restrain trade, a trade in enamels, varnishes and paints that is alleged to be and obviously is interstate in character. It charges that the price control is an essential part of that restraint.

We think it beyond question that the making of license contracts for the purpose of regulating distribution and fixing prices of commodities in interstate commerce is subject to the Sherman Act even though the isolated act of contracting for the licenses is wholly within a single state. Certainly since *United States* v. *Trenton Potteries*, 273 U. S. 392, 397 (decided in 1927) price fixing in commerce, reasonable or unreasonable, has been considered a per se violation of the Sherman Act.[6] Likewise it is clear that although the execution of a contract of insurance may not be interstate commerce

"If contracts of insurance are in fact made the instruments of restraint in the marketing of goods and services in or affecting interstate commerce, they are not beyond the reach of the Sherman Act more than contracts for the sale of commodities—contracts which, not in themselves interstate commerce, may nevertheless be used as the means of its restraint."[7]

[1] And so it is with patent license contracts which are a part of a plan to restrain commerce. Patents give no protection from the prohibitions of the Sherman Act to such activities, when the licenses are used, as here, in the scheme to restrain. The allegations of the complaint cover such a situation and New Wrinkle and its manufacturing licensee, Kay & Ess, are alike covered by the prohibitions of § 1.

[2] III. Appellees argue further, however, that the principles of *United States* v. *General Electric Co.*, 272 U. S. 476, and *Bement & Sons* v. *National Harrow Co.*, 186 U. S. 70, control here. Since we examined these principles in detail as recently as 1948, we draw upon that discussion for our conclusions here.[8] The Bement and General Electric cases allowed a patentee to license a competitor in commerce to make and vend with a price limitation controlled by the patentee. When we examined the rule in 1948, the holding of the General Electric case was left as stated above. 333 U. S. at 310 [76 USPQ at 409]. But it was pointed out that

"• • • the possession of a valid patent or patents does not give the patentee any exemption from the provisions of the Sherman Act beyond the limits of the patent monopoly." P. 308 [76 USPQ at 408].

We said that

"two or more patentees in the same patent field may [not] legally combine their valid patent monopolies to secure mutual benefits for themselves through contractual agreements, between themselves and other licensees, for control of the sale price of the patented devices." P. 305 [76 USPQ at 407].

Price control through cross-licensing was barred as beyond the patent monopoly.

On the day of the Line Material decision, this Court handed down *United States* v. *United States Gypsum Co.*, 333 U. S. 364 [76 USPQ 430]. The Gypsum case was based on facts similar to those here alleged except that the patent owner was also a manufacturer. We have pointed out above in section II of this opinion that we consider the fact that New Wrinkle is exclusively a patent-holding company of no significance as a defense to the alleged violation of the Sherman Act. We said in Gypsum that

"• • • industry-wide license agreements, entered into with knowledge on the part of licensor and licensees of the adherence of others, with the control over prices and methods of distribution through the agreements and the bulletins, were sufficient to establish a prima facie case of conspiracy." P. 389 [76 USPQ at 440].

On remand, the prima facie case resulted in a final judgment, affirmed by this Court.[9] In discussing the General Electric case, the Court was unanimous in saying that it

"gives no support for a patentee, acting in concert with all members of an industry, to issue substantially identical licenses to all members of the industry under the terms of which the industry is completely regimented, the production of competitive unpatented products suppressed, a class of distributors squeezed out, and prices on unpatented products stabilized. • • • it would be sufficient to show that the defendants, constituting all former competitors in an entire industry, had acted in concert to restrain commerce in an entire industry under patent licenses in order to organize the industry and stabilize prices." Pp. 400–401 [76 USPQ at 445].

[3] We see no material difference between the situation in Line Material and Gypsum and the case presented by the allegations of this complaint. An arrangement was made between patent holders to pool their patents and fix prices on the products for themselves and their licensees. The purpose and result plainly violate the Sherman Act. The judgment below must be reversed.

MR. JUSTICE CLARK took no part in the consideration or decision of this case.

APPENDIX

NEW WRINKLE, INC.

Licensors of Processes and Finishes

MINIMUM PRICE SCHEDULE No. 5

(Announced June 1, 1947)

EFFECTIVE JULY 1, 1947

(Superseding Minimum Price Schedule No. 4 as revised December 12, 1946) Part of New Wrinkle, Inc., License Agreement

Dated April 1, 1938

The following are the minimum prices at which patented Wrinkle Finish may be sold under License Agreement, to take effect on July 1, 1947 and to remain in force until further notice.

WRINKLE FINISH CLEAR

	1 Gal.	*5 Gal.*	*½ Drum*	*Drum*
−100	$2.85	$2.70	$2.65	$2.60
100	2.70	2.55	2.50	2.45

WRINKLE FINISH BLACK

−100	3.40	3.25	3.20	3.10
+100	3.25	3.10	3.05	2.95

WRINKLE FINISH ORDINARY COLORS

−100	3.65	3.50	3.40	3.35
+100	3.50	3.35	3.25	3.20

WRINKLE FINISH ORGANICS (see page 3)

−100	4.00	3.85	3.75	3.70
+100	3.85	3.70	3.60	3.55

WRINKLE FINISH METALLICS (see page 3)

(Addition of metallic to clear Wrinkle)

−100	3.50	3.35	3.25	3.20
+100	3.35	3.20	3.10	3.05

In the event that a metallic is added to a pigmented Wrinkle Finish, the established minimum for that pigmented finish, plus $.25, will be the minimum price.

Reductions in price for quantity as shown on above schedule are permissible on and shall apply only to quantities of wrinkle finish contained in a single shipment.

Wrinkle Finish in concentrated form or ingredients from which customer may produce wrinkle finish may be sold by Licensee only at minimum price per gallon on the number of gallons of the kind or color of wrinkle finish for final use by the customer that can normally be produced by adding to such concentrate or ingredients supplied by Licensee.

Clear Wrinkle Finish sold by Licensee under circumstances charging seller with knowledge that customer intends converting same into colored wrinkle finish may be sold only in accordance with the minimum price per gallon hereby established for wrinkle finish of the color and quantity in question.

Prices are f. o. b. destination or freight allowed.

In the event of cancellation of orders or return of goods prices shall be readjusted and settlement made according to the actual quantities purchased and retained.

Terms: 30 days net, 1% for cash within ten days after shipment.

In making bids, it is not permissible to deduct the cash discount. The cash discount of 1% can only be given or allowed if the "Wrinkle Finish" is actually paid for within ten days after shipment.

See minimum Price Schedule (No. 2–A) on Page 7 for Canadian Prices.

[1] 15 U. S. C. § 4:
"The several district courts of the United States are invested with jurisdiction to prevent and restrain violations of sections 1–7 of this title; and it shall be the duty of the several district attorneys of the United States, in their respective districts, under the direction of the Attorney General, to institute proceedings in equity to prevent and restrain such violations. Such proceedings may be by way of petition setting forth the case and praying that such violation shall be enjoined or otherwise prohibited. When the parties complained of shall have been duly notified of such petition the court shall proceed, as soon as may be, to the hearing and determination of the case; and pending such petition and before final decree, the court may at any time make such temporary restraining order or prohibition as shall be deemed just in the premises."

[2] Id., § 1:
"Every contract, combination in the form of trust or otherwise, or conspiracy, in restraint of trade or commerce among the several States, or with foreign nations, is declared to be illegal: * * *."

[3] "8. 'Wrinkle' finishes, also known as 'Crinkle,' 'Shrivel,' 'Sag,' 'Morocco,' and by other designations, are defined as enamels, varnishes and paints which have been compounded from such materials and by such methods as to produce when applied and dried, a hard wrinkled surface on metal or other material.
"9. Wrinkle finishes are widely used as coverings for the surfaces of typewriters, cash registers, motors, adding machines, and many other articles of manufacture. They have the following advantages over smooth finishes such as ordinary enamels and varnishes:
"a. One coat of wrinkle finish is sufficient for many purposes for which two or more coats of smooth finish would be required;
"b. Surfaces to which wrinkle finishes are to be applied need not be prepared as carefully as those which are to receive smooth finishes, since the wrinkle finishes cover small imperfections; and
"c. The original appearance of wrinkle-finished articles can be maintained with less cleaning and polishing than that of smooth-finished articles."

[4] A copy of the license is filed with the complaint. An important section, § 7, reads, so far as material in this proceeding, as follows:
"7. The Licensor hereby reserves and shall have the right at any time to establish a Schedule of Minimum Prices, Discounts, and Selling Terms only in accordance with which Licensee, Licensor, and all other Licensees shall thereafter sell or otherwise dispose of products covered by patents included herein, and thereafter to modify, amend and suspend any such Schedule and/or establish a New Schedule. * * * The Licensor announces as a matter of policy that it will fix said price based upon the cost of raw materials and labor as reported by the United States Department of Commerce and the United States Department of Labor, plus the royalty charged hereunder, it being the intent and purpose of the Licensor to open to the entire trade the use of these patents so licensed at the lowest price consistent with a reasonable profit to the manufacturer, Licensee, the trade and to this Licensor. No Schedule of Minimum Prices, Discounts and Selling Terms nor any modification or amendment or suspension thereof shall be binding upon Licensee unless at the same time and in the same terms imposed upon Licensor and all other Licensees."

[5] 258 U. S. 451, 465. There it is said:
"It is true that the mere making of the lease of the machines is not of itself interstate commerce."

[6] *United States* v. *Line Material Co.*, 333 U. S. 287, 307 [76 USPQ 399, 408].

[7] *United States* v. *Underwriters Assn.*, 322 U. S. 533, dissent 570, see majority 546. And see *Polish Alliance* v. *Labor Board*, 322 U. S. 643, 647, and *Lorain Journal* v. *United States*, 342 U. S. 143, 149.

[8] *United States* v. *Line Material Co.*, 333 U. S. 287 [76 USPQ 399]; *United States* v. *United States Gypsum Co.*, 333 U. S. 364 [76 USPQ 430].

[9] *United States* v. *United States Gypsum Co.*, 340 U. S. 76 [87 USPQ 276], 642 O. G. 703. Compare as to copyrights *United States* v. *Paramount Pictures*, 334 U. S. 131, 143 [77 USPQ 243, 247].

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,106,329. (See 2,275,676.)

2,119,654, P. E. Stone, Rear view mirror, suit for declaratory judgment filed Feb. 15, 1952, D. C., E. D. Mich. (Detroit), Doc. 11340, *Nelmor Corp.* v. *P. E. Stone et al.*

2,155,295, J. B. Bartow, Airport lighting system, filed Feb. 13, 1952, D. C. Kans. (Topeko), Doc. T–476, *Bartow Beacons, Inc., et al.* v. *Douglas Construction Co. et al.*

2,226,449, F. C. Stephens, Repairing textile fabrics, filed Feb. 13, 1952, D. C., S. D. Tex. (Houston), Doc. 6626, *National Multiweaving Co., Inc.* v. *Darnit Weaving Co.*

2,230,250, A. Jackson, Lifting jack; 2,552,965, J. F. Harris, Air jack, D. C., S. D. Calif. (Los Angeles), Doc. 13373–PH, *Bay Mfg. Co.* v. *L. F. Reisig et al.* Patent 2,230,250 held valid and infringed, injunction; 2,552,965 held not infringed; counterclaim dismissed (notice Feb. 21, 1952).

2,275,676, L. Gelbman et al., Concrete block machine; 2,366,780, same, Method for making building blocks; 2,106,329, E. J. Scott, Apparatus for treating material, C. C. A., 6th Cir., Doc. 11364, *Howard W. Goetsch et al.* v. *Hamlin F. Andrus et al.* Doc. 11365, *L. Gelbman et al.* v. *M. O. Wenzel et al.* Doc. 11366, *Besser Mfg. Co.* v. *John A. Whitman.* "Decree amended by excising therefrom the remedy based on holding that the Gelbman machine patent is valid and infringed and cause remanded with instructions to dismiss bill which so charges; the decree in all other respects is affirmed" Feb. 19, 1952.

2,300,157, G. R. Hunt, Feather-picking apparatus for fowls, D. C. N. D. Ga. (Gainesville), Doc. 482, *A. M. Hunt et al.* v. *Piedmont Poultry Exchange.* Consent judgment Oct. 13, 1951.

2,304,053, C. A. Kaufman, Stocking and knitting, suit for declaratory judgment filed Feb. 11, 1952, D. C., S. D. N. Y., Doc. 73/161, *Aberdeen Hosiery Mills Co., Inc., et al.* v. *Standard Hosiery Mills, Inc., et al.*

2,349,623, J. J. Hickey, Mixing and dispensing device, D. C. N. J. (Newark), Doc. 2/51, *J. J. Hickey* v. *John A. Roberts Co., Inc.* Order dismissing complaint favor defendant Feb. 15, 1952.

2,365,910, E. H. Shaff, Carburetor, filed Feb. 20, 1952, D. C., N. D. Ind. (South Bend), Doc. 1339, *General Motors Corp.* v. *Bendix Aviation Corp. et al.*

2,366,780. (See 2,275,676.)

2,389,192, 2,486,835, A. Friedland, Garment, D. C., E. D. N. Y. (Brooklyn), Doc. c–10966, *Evan-Picone, Inc.* v. *Drum Skirts, Inc.* Consent order of dismissal Feb. 19, 1952. Same, S. D. N. Y., Doc. 60/356, *Drum Skirts, Inc.* v. *Evan-Picone, Inc.* Order of dismissal (notice Feb. 19, 1952).

2,441,482, E. D. Gerry, Shoulder pad construction, D. C., S. D. N. Y., Doc. 45/775, *E-Z Thread Co.* v. *Stern Bros.* Consent judgment, complaint dismissed; counterclaim for declaratory judgment holding patent invalid sustained Feb. 19, 1952.

2,458,970, J. C. Wilson, Mystery toy or puzzle, D. C., S. D. N. Y., Doc. 50/398, *Wilson Mfg. Co.* v. *Royal Magic & Novelty Co. et al.* Consent judgment holding patent infringed, injunction against Royal Magic & Novelty Co. and Better Novelties, action dismissed against Joker Novelties and Bengor Products (notice Feb. 20, 1952).

2,486,835. (See 2,389,192.)

2,510,438, K. M. Tuohy, Contact lens, filed Feb. 5, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 13798–WB, *Tru-Fit Contact Lense* v. *Solex Laboratories, Inc., et al.*

2,513,506, D. Mendelson, Viewer and water sprayer (suit for declaratory judgment), D. C., S. D. N. Y., Doc. 62/16, *Wilson Mfg. Co.* v. *Royal Magic & Novelty Co.* Consent decree and judgment holding patent infringed, injunction (notice Feb. 20, 1952).

2,530,700, H. W. Jewell et al., Pressure pipe joint, D. C., S. D. Calif. (Los Angeles), Doc. 13472–Y, *Joints, Inc.* v. *Garrett Co.* Claims 9 and 10 held valid and infringed; injunction (notice Feb. 21, 1952).

2,531,234, P. H. Seckel, Longitudinally separable extruded thermoplastic strip and process of producing same, filed Feb. 13, 1952, D. C., S. D. N. Y., Doc. 73/164, *R. A. Fisch* v. *Justrite Novelty Co.* Doc. 73/219, *R. A. Fisch* v. *General Notions Co., Inc.*

2,552,965. (See 2,230,250.)

2,566,287, L. H. Finneburgh, Television antenna system, filed Feb. 20, 1952, D. C., N. D. Ohio (Cleveland), Doc. 28860, *L. H. Finneburgh, Jr.* v. *Palmer Mfg. Co.*

Des. 151,733, W. G. Bley, Lady's stocking, filed Feb. 15, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13276, *Sanson Hosiery Mills, Inc., et al.* v. *Pentagon Hosiery Co.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 334,168, St. George Textile Corp., Rayon and cotton piece goods, D. C., S. D. N. Y., Doc. 71/180, *St. George Textile Corp.* v. *Darlyn Junior, Inc.* Order of discontinuance (notice Feb. 14, 1952).

T. M. 350,859, L. L. Gluck, Inc., Women's and misses' dresses, D. C., S. D. N. Y., Doc. 71/181, *Lew L. Gluck Co.* v. *Sutton Fabrics Corp.* Consent judgment, defendant enjoined Feb. 19, 1952.

T. M. 366,223, Union Premier Food Stores, Inc., Butter and eggs, filed Feb. 20, 1952, D. C. N. J. (Trenton), Doc. 125/52, *Food Fair Stores, Inc.* v. *Midway Food Fair.*

NOTICES

Disclaimers

2,047,110.—*Clarence E. Reed*, Wichita, Kans. EARTH BORING APPARATUS. Patent dated July 7, 1936. Disclaimer filed Feb. 19, 1952, by the inventor; the assignee, *Chicago Pneumatic Tool Company*, concurring.

Hereby enters this disclaimer to claims 36 and 42 of said patent.

2,065,742.—*Clarence E. Reed*, Wichita, Kans. ROLLER CUTTER SPINDLE AND BEARING ASSEMBLY FOR EARTH BORING DRILLS. Patent dated Dec. 29, 1936. Disclaimer filed Feb. 19, 1952, by the inventor; the assignee, *Chicago Pneumatic Tool Company*, concurring.

Hereby enters this disclaimer to claims 5 and 7 of said patent.

2,412,974.—*Edmond Maurice Deloraine*, New York, N. Y. ELECTRIC WAVE COMMUNICATION SYSTEM. Patent dated Dec. 24, 1946. Disclaimer filed Feb. 13, 1952, by the assignee, *International Standard Electric Corporation.*

Hereby enters this disclaimer to claims 1, 2, 3, 4, 10, 11, and 12 of said patent.

2,437,580.—*William W. Wilson*, Memphis, Tenn. LATCH FOR SOFA BED HINGES. Patent dated Mar. 9, 1948. Disclaimer filed Feb. 18, 1952, by the inventor.

Hereby enters this disclaimer to claims 7, 9, 10, 12, 16, and 17 of said patent.

2,468,166.—*George G. Bruck*, East Orange, N. J. MIXING APPARATUS. Patent dated Apr. 26, 1949. Disclaimer filed Feb. 18, 1952, by the assignee, *Raytheon Manufacturing Company.*

Hereby enters this disclaimer to claims 12 and 14 of said patent.

2,520,967.—*Heinz E. Schmitt*, Patterson Field, Ohio. TURBOJET ENGINE WITH AFTERBURNER AND FUEL CONTROL SYSTEM THEREFOR. Patent dated Sept. 5, 1950. Disclaimer filed Feb. 26, 1952, by the inventor.

Hereby enters this disclaimer to claim 5 of said patent.

Cancellation Notices

Paul Kenda, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Harold D. Douglas, 7208 Sepulveda Boulevard, Van Nuys, California, to effect the cancellation of trademark registration of Paul Kenda, 424 Carson Street, San Antonio, Texas, No. 370,462, dated August 29, 1939, and the notice of such proceeding sent by registered mail to the said Paul Kenda, at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Paul Kenda, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Mar. 11, 1952.)

ERNEST F. KLINGE,
Assistant Commissioner of Patents.

Feb. 12, 1952.

Stamatis Polychronopoulos, his assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by Lekas & Drivas, Inc., 19–21 Roosevelt St., New York, N. Y., to effect the cancellation of trade-mark registration of Stamatis Polychronopoulos, 214 East 22nd St., New York, N. Y., No. 311,412, dated March 20, 1934, and the notice of such proceeding sent by registered mail to the said Stamatis Polychronopoulos, at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Stamatis Polychronopoulos, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Mar. 11, 1952.)

ERNEST F. KLINGE,
Feb. 19, 1952. *Assistant Commissioner of Patents.*

Adjudicated Patents

(C. A. Pa.) Battey Patent No. 2,149,571, for a hammer mill. Claims 4, 6, 9, and 10, *Held* invalid and uninfringed. *Pennsylvania Crusher Co. et al.* v. *Bethlehem Steel Co. et al.*, 193 F.2d 445; 92 USPQ 31.

(C. A. Pa.) Schacht Patent No. 2,135,151, for a method of crushing. Claim 2 *Held* invalid and uninfringed. *Id.*

(C. A. Mass.) Echikson Patent No. 2,271,920, for a tool, *Held* invalid. *Red Devil Tools* v. *Hyde Mfg. Co.*, 193 F.2d 491; 92 USPQ 27.

Rearrangement of Patents in The Official Gazette

The Commissioner of Patents, with the issue of July 1, 1952, will institute a rearrangement of the sequence of presentation of patents in the OFFICIAL GAZETTE. On that date and thereafter patents will appear in the OFFICIAL GAZETTE under three main headings, viz., General and Mechanical, Chemical, and Electrical. Within each main category patents will appear in numerical sequence by class and subclass. The patent number will be determined by the sequence within category by class and subclass of the particular patents in the issue of date.

The purpose of the proposed presentation is solely to enable and facilitate greater utilization of the OFFICIAL GAZETTE by the public and members of the patent law profession.

Consequent to the publication of patents in the OFFICIAL GAZETTE as outlined herewith, there will be a slight extension of time required to furnish the receipt for payment of final fee, and notice of patent number assigned, of from five to eight days, depending on the incidence of non-work days in the Office immediately after the payment of final fee. On the average, the issue date of a given patent will ordinarily be the fifth Tuesday after the closing Thursday, instead of the fourth Tuesday as it has been under the random order method of presenting patents in the OFFICIAL GAZETTE practiced heretofore.

Issue calendar showing closing dates is printed below.

REVISED FEB. 15, 1952

1952	TUESDAYS ISSUE DAYS FOR PATENTS DEPARTMENT OF COMMERCE, UNITED STATES PATENT OFFICE	1952

• • • When the final fee has been paid, and the patent to be issued has received its date and number, the application will not be withdrawn from issue on account of any mistake or change of purpose of the applicant, his attorney or his agent, nor for the purpose of enabling the inventor to procure a foreign patent. • • • —Rule 313.

Assignments must be recorded on or before payment of final fee to secure the issuance of the patent to the assignee.—Rule 334.

Final fee will NOT be received from other than the applicant, his assignee or attorney, or a party in interest as shown by the records of the Patent Office.

Dates of issue of patents in large figures; close of issue in small figures in the same square.—See Rule 354

JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
1 Dec. 6	5 Jan. 10	4 Feb. 7	1 Mar. 6	6 Apr. 10	3 May 8	1 May 29	5 July 8	2 July 31	7 Sept. 4	4 Oct. 6	2 Oct. 29
8 Dec. 13	12 Jan. 17	11 Feb. 14	8 Mar. 13	13 Apr. 17	10 May 15	8 June 5	12 July 15	9 Aug. 7	14 Sept. 11	11 Oct. 9	9 Nov. 6
15 Dec. 20	19 Jan. 24	18 Feb. 21	15 Mar. 20	20 Apr. 24	17 May 20	15 June 12	19 July 17	16 Aug. 14	21 Sept. 18	18 Oct. 16	16 Nov. 13
22 Dec. 27	26 Jan. 31	25 Feb. 28	22 Mar. 27	27 May 1	24 May 29	22 June 19	26 July 24	23 Aug. 21	28 Sept. 25	25 Oct. 23	23 Nov. 20
29 Jan. 3	=	=	29 Apr. 3	=	=	29 June 26	=	30 Aug. 28	=	=	30 Nov. 27

OFFICIAL GAZETTE, MONTHLY, VOLS. 654 TO 665, INCLUSIVE

Classification Order No. 119

February 13, 1952

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

in *Class 12, Boot and Shoe Making* (Division 11)

Laying and leveling
35 Oscillating jack and former

in *Class 81, Tools* (Division 29)

Wrenches
Clutched head
59 Segmental

in *Class 126, Stoves and Furnaces* (Division 19)

Stove doors and windows
195 Knobs

CHANGE SUBCLASS TITLES

in *Class 5, Beds*, change the title of subclass 226 to read:

Bedsteads
Bed bottoms
Fabricated elastic flats
226 Reinforcers

in *Class 12, Boot and Shoe Making* (Division 11) change the titles of subclasses 34, 37, and 38 to read:

Sole machines
Laying and leveling
34 With rotatable pressure roll
Multiple work supports
37 Rotary work support carrier
38 Pads or formers

in *Class 81, Tools* (Division 29) change the titles of subclasses 58 and 60 to read:

Wrenches
58 Handle clutched to head
60 One-way detent drive, e. g., ratchet

in *Class 131, Tobacco* (Division 2), change the title of subclass 240 to read:

Tobacco users' appliances
With ash receiver
240 Cigar, cigarette or smoking device

in *Class 164, Cutting and Punching Sheets and Bars* (Division 57) change the title of subclass 40 to read:

Machines
40 Apertured cutters

in *Class 260, Chemistry, Carbon Compounds* (Division 31) change the title of subclass 624 to read:

Carbocyclic or acyclic
Hydroxy
Aromatic
Phenols
Less than 12 nuclear carbons
624 C-polycarbon alkyl or alkylene

ESTABLISH SUBCLASSES

in *Class 12, Boot and Shoe Making* (Division 11) establish the following subclasses:

(W. S. COLE and E. V. BENHAM, *Classifiers*)

Sole machines
Laying and leveling
33.2 With heating means (to follow subclass 33)
33.4 With welt pressing means
33.6 With sole positioning means
33.7 Configured oscillating former indexed with sole
33.8 Oscillating jack
Roll
34.5 With power operated transverse roll tilting (to follow subclass 34)
35.5 Hammering and/or slicking
Multiple work supports
36.5 Traveling work support carrying fluid pressure applying means (to follow subclass 36)
36.8 Rotary work support carrier

in *Class 19, Textiles, Fiber Preparation* (Division 21) establish the following subclasses:

(W. F. PURDY and D. W. PARKER, *Classifiers*)

.3 **Stapilizing** (to precede subclass 1)
.32 With crimping or curling
.35 Tension breaking
.37 With weakening
.39 Multi-stage
.41 With lateral filament deflection
.43 Differential effect
.46 With prior treatment
.48 Aligning or separating
.51 With stapled fiber overlapping
.56 Combined
.58 Continuously flowing work
.6 Cutting
.62 Differential speed rotary cutter
.64 Fraying (e. g., abrasive)

in *Class 26, Textiles, Cloth Finishing* (Division 21), establish the following subclasses:

(W. F. PURDY, *Classifier*)

Cutting
10.4 Weft end or selvage float loop removal (to precede subclass 11)
Float threads
11.4 Venetian blind tapes (to precede subclass 12)

in *Class 30, Cutlery* (Division 11) establish the following subclass:

(W. S. COLE and E. V. BENHAM, *Classifiers*)

Can openers
With can moving means
8.5 Bead gripping (to follow subclass 8)

in *Class 81, Tools* (Division 29) establish the following subclasses:

(R. A. WAHL, S. M. NEWMAN and C. A. BEVELACQUA, *Classifiers*)

Wrenches
57.5 Turret head (to follow subclass 57)
Handle clutched to head
58.1 With additional head turning means (to follow subclass 58)
58.2 Radially slotted or open end head
58.3 Axially movable clutching parts
58.4 Positive two-way drive, e. g., dog clutch
58.5 Radially extending eccentrically movable handle
59.1 Ball or roller wedge
One-way detent drive, e. g., ratchet
63.1 Reversing (to follow subclass 63)
63.2 Single pawl
Handles and shanks
177.8 Angularly adjustable handle (to follow subclass 177)
177.9 With yieldable one-way detent

in *Class 139, Textiles, Weaving* (Division 21) establish the following subclasses:

(W. F. PURDY, *Classifier*)

Weft manipulation
170.3 Inactive-weft restrainers (to follow subclass 170)
170.4 With cutter
170.6 Box position responsive
170.7 Dummy or displaced warps

in *Class 250, Radiant Energy* (Division 54) establish the following subclass:

(S. W. CAPELLI, *Classifier*)

Ray energy
Fluent material
43.5 With detection or measurement (to follow subclass 43)

MISCELLANEOUS CHANGES

in *Class 30, Cutlery*, move subclass 9 one step of indentation to the right to be indented under subclass 8.5 established in this order and as shown below:

Can openers
With can moving means
Bead gripping
9 Rotatable disc cutter

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
12	35	12	33.8
81	59	81	58.2, 177.8+
126	195	16	110+
126	195	126	289

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established Class	Established Subclass	Source Class	Source Subclass
12	33. 2	12	33, 34, 36, 37, 38
12	33. 4	12	33, 34, 36
12	33. 6	12	33, 36, 37
12	33. 7	12	34, 35, 36
12	33. 8	12	35
12	34. 5	12	34
12	35. 5	12	33, 51
12	36. 5	12	36
12	36. 8	12	37
19	.3+	19	1
		57	2
26	10. 4	26	7, 11
26	11. 4	26	7
30	8. 5	30	8
81	57. 5	81	58
81	58. 1	81	58, 60, 61
81	58. 2	81	59
81	58. 3	81	58, 60
81	58. 4	81	58, 60
81	58. 5	81	58
81	59. 1	81	58
81	63. 1	81	60
81	63. 2	81	60
81	177. 8	81	58, 59
81	177. 9	81	58, 59
139	170. 3+	139	116
250	43. 5	250	43–49

IN THE DEFINITIONS:

2, Apparel

in subclass 9, under "Search this class, subclass", add:

8—for face guards supported by the head and designed to protect from the heat and glare of welding and similar operations.

12, Boot and Shoe Making

in subclass 33, cancel the definition and notes and substitute:

33. Machines under subclass 17 for forcing outsoles against uppers which have insoles attached thereto (i. e., lasted uppers) for the purpose of holding the outsoles while an adhesive, used to attach the outsoles, is being dried or set, or for conforming outsoles to a desired shape after they have been secured to the uppers.

(1) Note.—The machines generally apply the force by reciprocating the pressing mechanism. However, the force may be applied progressively over the outsole or by percussive means. Where the force is applied progressively over the shoe bottom (*a*) see this class, subclass 34 where the force applying means is a rotating roll, (*b*) subclasses 33.7 and 33.8 where the force applying means is an oscillatable former which has a rolling contact with the outsole and (*c*) subclass 35.5 where the force applying means is a tool which conforms the outsole by a wiping action. Where the force is applied by a percussive action see this class, subclass 35.5.

Search this class, subclass—

1.5—for machines adapted to conform an upper to a foot shaped form or last and to attach an insole thereto and, additionally, to lay or level an outsole on the lasted upper.
7+—for machines adapted to conform an upper to a foot shaped form or last and to attach thereto a sole which may be an outsole.
16.4—for machines for laying a portion of an outsole on a heel breast.
19.3—for machines for laying and leveling an outsole and attaching the same by inserted fasteners.
34—for rotating rollers for applying laying and leveling pressure, and see (1) Note above.
33.7—for oscillating formers and see (1) Note above.
33.8—for oscillating shoe supports and formers and see (1) Note above.
35.5—for percussive tools and wipers used in laying and leveling and see (1) Note above.
36+—for multiple laying or leveling devices of the type which would be classifiable per se in Class 12, subclass 33+.

establish the following subclasses:

33.2. Machines under subclass 33 which are provided with means to raise the temperature of all or a portion of the outsole being attached and/or the contacting portions of the shoe to which the outsole is to be attached.

(1) Note.—The heating is generally for the purpose of drying or setting the cement used in attaching the outsole to the shoe.

33.4. Machines under subclass 33 which are provided with means to support the welt of a welted shoe being treated against movement by forces applied to the opposite face of the outsole during laying and leveling.

(1) Note.—The term "welt" as used in the above definition is limited to a strip of material lying above the outsole and extending substantially to the edge of the outsole and located outside the upper of the shoe.

33.6. Machines under subclass 33 with means to orient, guide and/or place the outsole of a shoe relative to the upper to which it is to be attached.

(1) Note.—The means to position the outsole is usually, but not necessarily, a guide or gauge to facilitate manual alignment of the sole with a shoe supported on a form.

33.7. Machines under subclass 33 in which the former is oscillated over the bottom of a shoe held upon a work support in rolling contact therewith, the former having a surface design or configuration to apply pressure to or to conform the outsole, the former being so related to or indexed with respect to the work support that the design or configuration retraces the same path of contact for each cycle of operation.

33.8. Machines under subclass 33.7 in which a support holding the shoe being treated is pivotally supported and cooperates with a former pivotally mounted on an axis parallel thereto, both the support and former being oscillated and coacting in rolling contact as do gear wheels.

(1) Note.—The term "former" as employed in subclasses 33.7, 33.8 and 38 is used to denote a member which is shaped, or adapted to be shaped to conform to the desired shape of the shoe bottom exterior and is to be distinguished from "formers" as contemplated by Class 12, subclass 128, which shape the finished shoe upper. See (1) Note to subclass 38 of this class.

cancel the definition and note to subclass 34 and substitute:

34. Machines under subclass 33 in which the shoe is usually held on a support and the sole is subjected to pressure by a rotating roller, the roller or shoe or both being relatively moved along the length of the sole to present the whole shoe bottom to the roller.

(1) Note.—The shoe support is usually termed a "jack" in the art.

Search this class, subclass—

33.7 and 33.8, for laying and leveling machines in which a configured former which may be shaped somewhat like a roll is oscillated over the shoe being treated in indexed rolling contact therewith.

abolish subclass 35.

establish the following subclasses:

34.5. Machines under subclass 34 having power means to tilt or rock the roll transversely in a plane generally perpendicular both to the surface of the sole and to the path of movement of a translated roll.

Search this class, subclass—

34—for rollers which may roll along the length of the sole in rolling contact therewith and are free to tilt transversely in response to undulations in the shoe bottom surface or to forces manually applied by an operator.

35.5. Machines under subclass 33 in which the laying and leveling operation is produced by a tool adapted (1) to give a series of percussive blows upon the outsole being treated and/or (2) to conform the outsole to shape by a wiping movement of the tool over the outsole being operated upon.

(1) Note.—The machines in this subclass may, by movement of their tools, perform a burnishing or polishing action on the sole but this result is considered incidental to their functions of conforming the sole to the desired shape.
(2) Note.—Machines employing rotating rollers whose periphery slides with respect to the sole have not been considered "slicking" or wiping and such patents have been classified in subclass 34+ of this class.

Search this class, subclass—

70+—for sole burnishing machines which condense and polish the edge and tread surfaces of shoe soles which are not designed to force the soles to a desired shape.

cancel the definition and notes to subclass 36 and substitute:

36. Machines under subclass 33 which are provided with a plurality of supports for the shoes being operated upon so that the operator may have one or more shoes in pressing relation while he is changing the shoe on another support.

(1) Note.—Each support may be provided with its own sole former or pad or a single former or pad may contact a number of work supports alternately or successively.

establish the following subclasses:

36.5. Machines under subclass 36 in which the work support travels past a loading position or zone and a pressure applying position or zone in a closed path and in which a fluid actuated pressure applying device is carried along the path with the work support.

(1) Note.—The work supports in this subclass are, for the most part, supported on endless belts.
(2) Note.—Patents claiming multiple traveling work supports but no traveling fluid actuated pressure means will be classified in Class 12, subclass 36 except for work supports mounted on rotatable carriers which are classified in subclass 37 of this class.

36.8. Machines under subclass 36.5 in which the work supports are held on a turret or wheel rotating about a single fixed axis and which is progressively rotated to move the work supports past loading and pressure applying stations or zones.

(1) Note.—Many of the patents in subclasses 36.5 and 36.8 claim the means for conducting or controlling the fluid which actuates the traveling pressure applying means.

Search this class, subclass—

37—for work supports held on a rotary carrier in which pressure is applied at a pressure station by means other than a traveling fluid pressure actuated means such as, for example, a pressure means in a fixed location which engages traveling work supports in succession.

cancel the definitions and notes to subclasses 37 and 38, and substitute:

37. Machines under subclass 36 in which the work supports are held on a turret or wheel rotating about a single fixed axis and which is progressively rotated to move the work support past loading and pressure applying stations or zones.

Search this class, subclass—

36.8—for similar rotary work supports in which a fluid actuated pressure applying means is carried in a circular path with the work supports.

38. Sole engaging members of laying and leveling machines under subclass 33 which are adapted to contact the sole and conform it to shape.

(1) Note.—Such sole engaging members, generally called "pads" or formers in the art, may consist of platens or blocks shaped to impart the desired form to the work and may be rigid, resilient, inflatable or deformable (such as a flexible bag filled with a liquid).
(2) Note.—A patent is placed in this subclass even though a work support and/or a means to relatively move the pad or former and work support is nominally claimed.

cancel the definition only of subclass 79.6, and substitute:

79.6. Machines under the class definition for use in inserting filling material in shoe bottoms and/or for smoothing and packing the same.

(1) Note.—These machines may be provided with means functioning to keep the filling material in a proper plastic condition, by heating, for example.

15, Brushing, Scrubbing and General Cleaning

in subclass 236, under "Search Class", in the reference to Class 29, insert before "subclass 81", *subclass 78+ for files*; and add in numerical order:

69—LEATHER MANUFACTURES, subclass 20, for scrapers used in leather-working.
72—MASONRY AND CONCRETE STRUCTURES, subclass 128, for scrapers used in masonry and plaster work.
81—TOOLS, subclass 15.2+, for scrapers combined with means for repairing a resilient vehicle tire.
132—TOILET, subclasses 75.6 and 76.4, for nail files.
146—VEGETABLE AND MEAT CUTTERS AND COMMINUTORS, subclass 177+, for scrapers adapted to comminute meat and vegetables.
166—FARRIERY, subclass 48, for scrapers used to clean or trim horses' hooves.

16, Miscellaneous Hardware

in subclass 35, add:

(1) Note.—The line established between Class 188, BRAKES, and Class 16, MISCELLANEOUS HARDWARE, subclass 35, is as follows: Casters having means to restrain or lock the vertical shank or pintle against rotary motion are classified in Class 16, MISCELLANEOUS HARDWARE, subclass 35; casters having means to restrain or lock both the vertical shank or pintle and the horizontal or wheel carrying axle or wheel against rotary motion are classified in Class 16, MISCELLANEOUS HARDWARE, subclass 35; casters having means to lock or restrain the horizontal wheel carrying axle or wheel against rotary motion are classified in Class 188, BRAKES, appropriate subclasses, particularly subclasses 2–85.

and add:

Search Class—

188—BRAKES, appropriate subclasses, especially subclasses 2–85 for means to retard or prevent the motion of the horizontal axle or wheel of a caster, and see (1) Note above.

in subclass 110, in "(2) Note", cancel:

126—STOVES AND FURNACES, subclass 195.

and in "(3) Note", in the reference to Class 81, change subclass "177" to read *177+*.

19, Textiles, Fiber Preparation

establish the following subclass definitions:

.3. Processes and apparatus for severing filaments of indefinite length, before such filaments are incorporated into a fabric, to produce fibers approximating in length the staple fibers of natural origin.

(1) Note.—Although this and the indented subclasses do not include inventions relating to the severing of continuous filaments after they have been incorporated into a fabric, it does include those directed to the breaking of filaments united in a yarn or other twisted bundle.
(2) Note.—Mere cutting, i. e., mechanical shearing or abrading of a filament or bundle of filaments unaccompanied by any textile handling or treating operation is not within the scope of this or the indented subclasses, but comprises subject matter of Class 164, CUTTING AND PUNCHING SHEETS AND BARS, or Class 51, ABRADING.
(3) Note.—For classification in this or the indented subclasses, the severing operation must be claimed significantly. That is, some detail of the severing apparatus or process must be set forth in a patent claim, so that the claim expresses a more specific embodiment of this subject matter than that imparted by the mere recitation of such terms as "stapilising", "breaking" or "severing".

Search Class—

18—PLASTICS, subclass 2.4+, for apparatus intended to form discrete fiber-like particles from a mass of molten material, such as glass; and subclass 47.2+, for corresponding processes.
28—TEXTILES, subclass 78, for miscellaneous textile products containing stapled fibers obtained by the use and practice of the apparatus and processes of this and the indented subclasses.
30—CUTLERY, appropriate subclasses, for cutter elements per se and for hand cutting implements (e. g., razors).
49—GLASS, appropriate subclasses, particularly subclasses 1 and 17, for the combination of means for forming glass staple fibers and means for accomplishing some other glass working or treating operation, and for apparatus for forming glass staple fibers other than by liquid comminution, and subclass 77.5, for corresponding methods; and subclass 48+ for means for cutting hard glass, including continuous glass rods and tubes, and subclass 77 for corresponding processes.
51—ABRADING, appropriate subclasses, for apparatus for abrading continuous filamentary material, noting particularly subclasses 74, 75 and 156; and subclass 281 for methods of abrading continuous filamentary material.
57—TEXTILES, SPINNING, TWISTING, AND TWINING, subclass 140, for stapilised yarns and for yarns fabricated at least partly from stapled fibers.
107—BREAD, PASTRY, AND CONFECTION MAKING, subclass 20+, for severing devices particularly adapted to operation upon sheets or rod-like bodies of dough from which such substances as macaroni and spaghetti are formed.
131—TOBACCO, subclasses 46, 63, 64, 65, 83, and 91, for processes and apparatus directed to cigar and cigarette end trimming or cutting in combination with other cigar or cigarette making operations, and subclasses 117 and 118 for methods of and means for trimming or cutting associated with the formation of a compressed tobacco charge.
146—VEGETABLE AND MEAT CUTTERS AND COMMINUTORS, appropriate subclasses, for methods and means specialised to the comminution of animal and vegetable products and material similar thereto, and particularly subclass 81+, for devices effective to sever the ends of work pieces, and the succeeding subclasses directed to types of cutter mechanisms.
164—CUTTING AND PUNCHING SHEETS AND BARS, appropriate subclasses, for means for cutting continuous filamentary material by a mechanical shearing operation, and subclass 125 for corresponding processes.

.32. Processes and apparatus under subclass .3 in which the continuous filaments or resulting fibers, or both, are subjected to additional treatment intended to impart a crimp or curl to the product of the stapilizing operation.

Search this class, subclass—
66—for methods and apparatus relating to the crimping or curling of fibers by mechanical treatment per se.

Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, subclasses 114+; and subclasses 115.5+, particularly subclasses 115.7 and 117; and subclasses 129+ and 130.1+, for the crimping or curling of fibers by chemical treatment.

.35. Processes and apparatus under subclass .3 according to which the severing is produced by the application of oppositely directed forces to the continuous filaments substantially longitudinally thereof.

(1) Note.—This type of stapilizing is often referred to by those working in the art as "stretch breaking", although no substantial stretching of the filamentary material need be accomplished by the employment of the inventions herein classified. (See Patent Number 2,096,795 to Dreyfus in subclass .37, indented hereunder.)

(2) Note.—The typical tension breaking apparatus comprises plural sets of drafting rolls, the peripheral speed of the delivery rolls being considerably greater than that of the feed rolls, causing the drafted filaments to be stressed beyond the breaking point, the length of the stapled fibers produced being determined (at least in part) by the spacing or ratch of the roll pairs. Classification in this and the indented subclasses, however, does not require that the breaking forces be so supplied.

Search this class, subclass—
130+—for textile drafting apparatus and processes of general application.

Search Class—
164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 84.5, for apparatus effective to cut sheet- and rod-like material by a tearing action which operates to completely sever the material along a continuous surface of cleavage, and subclass 125 for corresponding processes.
254—PUSHING AND PULLING IMPLEMENTS, appropriate subclasses, for pulling implements of general application.

.37. Processes and apparatus under subclass .35 characterized by a weakening of the continuous filaments before, or while, being subjected to the breaking forces.

(1) Note.—An example of weakening which takes place while the weakened filament is being subjected to the breaking forces is that produced by means located within the ratch of breaking roll pairs. (See Patent Number 2,077,320 to Hale, here classified.)

(2) Note.—Such weakening is resorted to mainly for the purpose of minimizing the requisite magnitude of the breaking forces and the consequent loss of fiber extensibility, and for the purpose of predetermining the points along their length at which certain filaments will be broken.

.39. Processes and apparatus under subclass .35 in which the filamentary material is subjected to a tension breaking operation and the product thereof is subjected to a second such operation.

.41. Processes and apparatus under subclass .35 in which the continuous filaments are deflected from a straight line or planar path in the zone of application of the opposed breaking forces.

(1) Note.—The deflection is usually provided to ensure an effective grasp of the filaments by the breaking means.

Search this class, subclass—
.37—for filament deflecting means which function to weaken the filaments.

.43. Processes and apparatus under subclass .35 in which either (1) a variegated starting material is submitted to the stapilising operation or (2) the operation is so carried out that the stapilizing effect varies either laterally (i. e., from filament to filament of the substantially parallel filaments making up the stapilized bundle) or longitudinally (i. e., along the length of the stapilized fibrous product in the direction of the opposed breaking forces).

(1) Note.—The mere random staggering of fiber ends inherently produced by the severing operation, and which is necessary to the production or preservation of a continuous top or yarn, is not sufficient variation or differential effect to meet the above definition of this subclass.

(2) Note.—Variations in starting material may be based on any of the characteristics of textile strands, such as color, texture, chemical composition, denier or count, breaking strength, etc.

Search this class, subclass—
144, 145, and 146—for fiber blending methods and means per se.

.46. Processes and apparatus under subclass .3 which include some treatment, ancillary to the stapilizing, of the continuous filaments before they enter the stapilizing zone.

(1) Note.—The term "treatment" as used herein does not embrace the formation of the filaments or their treatment or working in the uncoagulated state, for which see Class 18, subclasses 8 and 54.

(2) Note.—For a more detailed statement of the line with the textile treating classes see (3) Note to subclass .3 and see the reference to each of Classes 8 and 68 under Search Class in the definition of subclass .56.

Search this class, subclass—
.37—for prior treatment apparatus and processes effective to weaken filaments about to be subjected to stretch breaking.

Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, appropriate subclasses, for particular processes for chemically treating textiles.
68—TEXTILES, FLUID TREATING APPARATUS, appropriate subclasses, for textile fluid treating apparatus.

.48. Processes and apparatus under subclass .46 in which the prior treatment comprises aligning the continuous filaments, separating or spacing them from one another, or both.

Search Class—
28—TEXTILES, subclass 40, for means for separating adjacent strands of a warp sheet, one up and one down, subclass 71.5+, for means for feeding single filaments, or for means for feeding sheets of filaments operative to select a single filament or group of filaments from the sheet for individual treatment, and subclass 72.5+, for methods of warp preparing.
139—TEXTILES, WEAVING, subclass 98, for devices for separating adjacent warp strands while they are being fed in a loom.
271—SHEET OR WEB FEEDING OR DELIVERING, subclass 2.1+, for apparatus and processes for feeding filaments in the form of a sheet or web without individual treatment or handling of discrete filaments or groups of filaments comprising only portions of the sheet or web.

.51. Processes and apparatus under subclass .3 in which the severing operation is combined with a subsequent overlapping of the stapled fibers to form a sliver, top or other longitudinally cohesive, substantially continuous product.

(1) Note.—Mere rearranging, as by drafting, of the fibers of an already cohesive, substantially continuous stapled fiber product is not such overlapping as will of itself result in placement of an invention in this subclass. There must be a placing of severed fiber ends into overlapping relationship to form a cohesive product from individual fibers, bundles or web sections. (The mere fact, however, that a patent claims or discloses a drafting operation in addition to such overlapping will not keep the patent from this subclass.)

Search this class, subclass—
130+—for fibrous product drafting apparatus and processes of general application.

.56. Processes and apparatus under subclass .3 constituting combinations of stapilizing means and methods with those directed to other operations.

(1) Note.—All preceding subclasses must be investigated for particular combinations as shown by the preceding subclass titles.

Search this class, subclass—
66, 72 and 80+—for processes and means for fiber bundle opening, per se.
144, 145 and 146—for fiber mixing apparatus and methods, per se.

Search Class—
8—BLEACHING AND DYEING; FLUID TREATMENT AND CHEMICAL MODIFICATION OF TEXTILES AND FIBERS, appropriate subclasses, for the combination, with a stapilizing method not claimed significantly, of a significantly claimed method of bleaching, dyeing, or chemically treating either the starting material or the product of such stapilizing method. See (3) Note to the definition of subclass .3 above.
18—PLASTICS, particularly subclasses 8 and 54, and see the notes thereto, for significantly claimed apparatus and processes, respectively, for plastic filament working combined with stapilizing, regardless of whether the stapilizing means or method is claimed significantly. See (3) Note to the definition of subclass .3 above.

28—TEXTILES, subclass 57+, for the combination of significantly claimed thread finishing apparatus with stapilizing apparatus not claimed significantly. And see (3) Note to the definition of subclass .3 above.
57—TEXTILES, SPINNING, TWISTING AND TWINING, subclass 2, for significantly claimed twisting apparatus combined with stapilizing apparatus, whether the latter is claimed significantly or not, and subclass 157 for the combination of a significantly claimed twisting process with a stapilizing process, regardless of whether the latter is claimed significantly. See (3) Note to the definition of subclass .3 above.
66—TEXTILES, FLUID TREATING APPARATUS, appropriate subclasses, for the combination of significantly claimed textile fluid treating apparatus with stapilizing apparatus which is not claimed significantly. See (3) Note to the definition of subclass .3 above.
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, appropriate subclasses, for processes and apparatus directed to combined stapilizing and laminating operations (e. g., stapilizing and the adhering of stapled fiber webs by application of binder material).
241—SOLID MATERIAL COMMINUTION OR DISINTEGRATION, subclass 4, for processes, and subclass 31+ for apparatus for opening spicules or bundles of parallelly arranged fibers (such as asbestos) by a comminuting operation, e. g., by flexing the bundle under pressure.

.58. Processes and apparatus under subclass .3 in which the filamentary starting material moves in an axial direction and is both laterally and longitudinally cohesive and, as a whole, remains so during the stapilizing operation.

(1) Note.—Where a group of strands constitutes a discrete sheet or web in and of itself, the mere feeding thereof is proper subject matter for Class 271, SHEET OR WEB FEEDING OR DELIVERING, the feeding of a multiplicity of such groups being considered a plural web feeding; where, however, a strand or groups of strands are segregated or diverted (temporarily or otherwise) from a sheet or web which is being fed as a unit, the feeding means is classified in Class 28, subclass 71.5+.

Search this class, subclass—
.35+—for stapilising apparatus and methods effective to break continuously running filamentary material by application of opposed longitudinal forces.
.46+—for inventions relating to the stapilizing of continuously flowing filamentary material, characterized by the treatment of the material prior to or preparatory to severing.
.56—for processes and apparatus for stapilizing continuously running material, the performance or use of which results in some additional treatment of the material subsequent to or during the stapilizing.

Search Class—
28—TEXTILES, subclass 22+, for apparatus intended for the manipulation, other than mere feeding, of sheets of parallel strands, the sheet generally having the thickness of one strand; subclass 71.5+, for means for feeding or advancing strand material, including means for feeding or advancing such material in sheet form, which latter means effects a handling or positioning of individual strands or groups of strands each of which comprises a part only of the basic sheet, and see (1) Note; and subclass 72.5+, for methods of manipulating sheets of parallel strands.
271—SHEET OR WEB FEEDING OR DELIVERING, subclass 2.1+, for methods of and means for feeding sheets of strand material in the manner of feeding a web, i. e., without effecting individual feeding, handling or positioning of single strands or groups of strands which constitute component parts of the sheet or web being fed, and see (1) Note.

.6. Processes and apparatus under subclass .58 in which the severing is accomplished by mechanical shearing or fraying means.

Search Class—
164—CUTTING AND PUNCHING SHEETS AND BARS, appropriate subclasses, for apparatus, and subclass 125 for processes for cutting substantially continuous filaments, either individually or in sheets or bundles, into staple fiber lengths involving no additional operation other than feeding the filamentary material or handling the stapled fibers for mere collection and/or transportation.

.62. Processes and apparatus under subclass .6 in which a bundle or web of filaments travelling in a plane parallel to the axis of a rotating cutter comes into contact with the cutter at a translational speed differing from the peripheral speed of such cutter.

(1) Note.—The cutter may be provided with a helical cutting blade or blades or some other form of blade which is inclined to the cutter axis.

.64. Inventions under subclass .6 in which the stapilizing is accomplished by drawing the continuous filamentary material past a sharp edged cutting member so that the material maintains rubbing contact with such member.

(1) Note.—The cutting member may comprise an abrasive or other roughened surface.

(2) Note.—The filamentary material is often given a component of motion effective to vary, more or less continuously, the transverse portion of the surface which is presented to the cutter.

Search Class—
28—TEXTILES, subclass 67, for means for finishing strand material by rubbing the surface thereof.
51—ABRADING, appropriate subclasses, particularly subclasses 74, 75 and 156 for apparatus operative merely to abrade running filamentary material without effecting any typically textile result other than the filament or fiber abrading itself and without utilizing means peculiar to the textile arts; and subclass 281 for corresponding processes.

in subclass 66, add:

Search this class, subclass—
.32—for the combination of stapilizing and crimping or curling to form a stapled fiber product having a crimp or curl.
.56—for the combination of stapilizing and the opening of bundles of substantially parallel, staple length fibers.

in subclass 129, add:

Search this class, subclass—
.6—for gills operative to cut filaments of indefinite length and draft the resulting fibers.

in subclass 130, under "Search this class, subclass", add in numerical order:

.35+—for drafting apparatus and processes effective to sever continuous filaments by stressing them beyond their breaking points.

in subclass 144, add:

Search this class, subclass—
.51—for the combination of stapilizing and overlapping of the stapled ilbers.
.56—for the combination of stapilizing and mixing or blending the resulting fibers.

23, Chemistry

in subclass 230 under "Search Class", in the reference to Class 73, change "calorinetric" to *calorimetric*.

26, Textiles, Cloth Finishing

establish the following subclass definitions:

10.4. Processes and apparatus under subclass 7 for the removal of projecting weft ends from the edge of fabric, or for the removal of loops connecting non-adjacent wefts and floating along the edge of the fabric.

(1) Note.—Selvage float loops often are formed in weaving on looms equipped with multiple shuttle boxes, one or more of which boxes (at any stage of weaving) contain inactive filling packages each of which is still connected by an integral length of weft yarn to the last pick of filling laid from that package and which, upon re-entry into active filling laying, operates to extend such length of weft adjacent to but outside of the fabric selvage in the form of a loop or external float thread.

Search this class, subclass—
11+—for inventions related to the cutting of threads floating along the surface of a fabric.

Search Class—
139—TEXTILES, WEAVING, subclass 170.3+, for means effective to prevent the fouling of inactive filling threads in multiple-shuttle-box looms, noting particularly subclass 170.4, for such apparatus combined with a cutter; and subclass 302+, for loom-mounted selvage trimmers.

in subclass 11, add:

Search this class, subclass—
10.4—for inventions related to the severing of threads floating along the edge, but not over the surface, of woven fabrics (selvage loops).

establish the following subclass:

11.4. Processes and apparatus under subclass 11 for severing the connecting or unwoven warp threads (float or cross threads) in Venetian blind ladder tapes.

26, Textiles

in subclass 57, change "Search Classes" to *Search Class*, and insert:

19—TEXTILES, FIBER PREPARATION, subclass .3+, for the combination of significantly claimed stapilising apparatus with thread finishing means.

in subclass 67, add:

Search Class—
19—TEXTILES, FIBER PREPARATION, subclass .64, for apparatus for stapilising continuous filament bundles by rubbing contact with a cutting member.
51—ABRADING, appropriate subclasses, particularly subclasses 74, 75 and 156 for means for abrading a running strand without performing any textile operation thereon, and subclass 281 for corresponding processes.

29, Metal Working

in subclass 78, under "Search Class", add:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 236+, for scrapers of general cleaning utility, and see the notes thereto for miscellaneous scrapers of more specialized application.

in subclass 155.56, in "(3) Note", in the reference to Class 242, change the words "which is analogous to the form in which coil" to *which is analogous to the form in which wire.*

30, Cutlery

establish the following subclass definition:

8.5. Devices under subclass 8 in which the can is moved against the cutting element by means engaging the chime or the joint or seam between the end and sides of the can.

cancel the definition of subclass 9, and substitute:

9. Devices under subclass 8.5 in which the cutting element has a generally circular cutting edge and rotates about its center.

37, Excavating

in subclass 124, under the definition, insert "(1)" before the note, and add:

(2) Note.—Devices of this type in which the scoop is mounted on a swingable support which is capable of translating the scoop through a vertical arc beyond the confines of the wheeled support so as to provide an operating or material engaging sphere materially beyond the confines of the running gear are found in Class 214, subclass 131+.

43, Fishing, Trapping and Vermin Destroying

in subclass 57, add:

Search Class—
261—GAS AND LIQUID CONTACT APPARATUS, for aerators of general utility even though disclosed for use in minnow buckets where no structure which specialises it for use in a minnow bucket is claimed.

57, Textiles, Spinning, Twisting and Twining

in subclass 2, cancel the definition only and substitute:

2. Apparatus for both stapilising and twisting continuous filament yarns or bundles to produce spun or simulated spun yarn.

and cancel "(1) Note" and substitute:

(1) Note.—The stapilising operation may be performed upon individual continuous filaments, a tow or slightly twisted bundle of such filaments, or upon a yarn produced by twisting such filaments.

and add:

Search this class, subclass—
88 and 91—for means for producing yarn of irregular form by irregularity in the feeding of strand material to the twisting instrumentalities.

and cancel "(2) Search Class" and the reference to Class 19, and substitute:

Search Class—
19—TEXTILES, FIBER PREPARATION, subclass .3+, for the combination of a significantly claimed stapilising process or apparatus with a twisting method or means not claimed significantly, also for stapilising processes and apparatus per se.

69, Leather Manufactures

in subclass 20, under "Search Class", insert:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 236+, for scrapers of general cleaning utility, and see the notes thereto for miscellaneous scrapers of more specialized application.

72, Masonry and Concrete Structures

in subclass 128, under "Search Class", insert:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 236+, for scrapers of general cleaning utility, and see the notes thereto for miscellaneous scrapers of more specialized application.

74, Machine Elements and Mechanisms

in subclass 675, in "(1) Note", cancel the first sentence and add:

Search this class, subclass—
626—for plural power paths to and/or from planetary gearing wherein one of the power sources is manually operated and the other is motor operated.

77, Boring and Drilling

in subclass 44, under "Search Class", in the reference to Class 81, cancel "subclasses 58 and 63" and substitute *subclass 58+.*

81, Tools

in subclass 15.2, add:

Search Class—
15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 236+, for scrapers of general cleaning utility, and see the notes thereto for miscellaneous scrapers of more specialized application.

establish the following subclass definition:

57.5. Wrenches under subclass 53 having a plurality of alternately useable work engaging sockets or paired jaws movably mounted on an operating handle, with means to fasten a selected pair of jaws or sockets in operating position with respect to the handle.

cancel the definition of subclass 58 and substitute:

58. Wrenches under subclass 53 wherein the head or driven part is rotatable through 360° or more with respect to the handle or driving part, there being inter-engaging means on the handle and head to permit intermittent and/or continuous driving engagement between the head and handle.

Search this class, subclass—
177.7+—for wrenches wherein the handle is adjustable with respect to the head, the adjustment being less than 360°.

Search Class—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 126+, for oscillating to intermittent unidirectional intermittent grip type mechanical movements, and subclass 144+, for grip units per se.
145—WOODWORKING TOOLS, subclass 70+, for bit stocks provided with ratchet mechanism for driving the bit.
192—CLUTCHES AND POWER-STOP CONTROL, subclass 30+, for clutches per se.

establish the following subclass definitions:

58.1. Wrenches under subclass 58 having means for imparting rotation to the head other than by a translating movement of the handle with respect to the work piece engaged by the head.

(1) Note.—The means for imparting rotation may consist merely of a modification of the head, as by an extended or enlarged or roughened portion adapted to be manually gripped and actuated, provided only that such actuation be specifically disclosed.

Search this class, subclass—
54—for machine wrenches wherein the casing constitutes a handle which does not itself move to provide a clutching engagement with the head.

58.2. Wrenches under subclass 58 wherein the head has a slot extending from the center outwardly through the outer periphery to permit the use of the head as an "open end" wrench.

(1) Note.—There may be included means functioning to close the slot to complete the circular or other configuration of the head.

58.3. Wrenches under subclass 58 wherein the driving and driven parts themselves or elements associated therewith are mounted for relative movement parallel to the axis of rotation of the head or driven part and are provided with clutching means whereby such relative movement will engage and/or disengage the clutching means.

58.4. Wrenches under subclass 58 wherein the inter-engaging means when engaged rigidly connect the two parts to provide for positively driving the head in either or both directions of rotation.

58.5. Wrenches under subclass 58 wherein the handle extends generally radially from the axis of rotation of the head and is pivoted or mounted to rotate eccentrically thereof whereby motion of the handle in one direction about its pivot will cause clutching or driving engagement with the head, motion in the opposite direction releasing the engagement.

(1) Note.—In some instances movement of the handle to extreme positions in each direction will effect driving engagement in that direction, there being a neutral position approximately midway between the extreme position wherein the driving engagement is disabled.

abolish the definition of subclass 59.

establish the following subclass definition:

59.1. Wrenches under subclass 58 wherein the clutching elements include ball or roller devices arranged between two surfaces so shaped or otherwise related to each other as to wedge the ball or roller therebetween in one direction of movement of the handle with respect to the head to effect driving engagement between the handle and head.

cancel the definition of subclass 60 and substitute:

60. Wrenches under subclass 58 wherein the clutching elements include a catch, dog, pawl or similar detent means, so arranged that movement of the handle in one direction will drive the head while movement in the opposite direction permits relative rotation of the head and handle.

(1) Note.—These wrenches are commonly known as "ratchet" wrenches.

Search this class, subclass—
58.4—for wrenches wherein a detent-type clutch is positively engaged for driving in both directions of movement of the handle.
59.1—for wrenches wherein a ball or roller is wedged between two surfaces to effect driving engagement between the handle and head.

establish the following subclass definitions:

63.1. Wrenches under subclass 60 provided with means whereby the direction of driving can be selectively reversed.

63.2. Wrenches under subclass 63.1 having a single pawl, the effect of which can be controlled to provide for selective reversing of the drive.

Search this class, subclass—
63—for reversing one-way detent drive wrenches where the pawl is pivoted.

177.8. Wrenches under subclass 177 having means for changing the angle between the handle and the work engaging part, the angular adjustment being less than 360°.

Search this class, subclass—
58+—for clutched head wrenches having handle and head adjustments of 360° or more.

177.9. Wrenches under subclass 177.8 wherein a dog on one member is resiliently urged against one of a plurality of surfaces on the other member to permit adjustment in one direction of rotation of the handle relative to the head by the shifting of the dog to a different surface without manual actuation of the dog.

120, Stationery

in subclass 42.06, under "Search Class", cancel the reference to Class 346, and substitute:

346—RECORDERS, subclass 140, for fountain pen structure of the recorder type where structure is claimed which limits the structure to use in recorders. Merely claiming the supporting arm and/or its means for attaching the pen to the arm will not be sufficient to exclude the patent from this class (120). Structure provided to attach the pen supporting arm to the recording mechanism, or any structure of the supporting arm which is peculiarly adapted for use with a recorder and/or is more than the mere support for the pen will be sufficient to exclude the patent from Class 120 and to cause classification in Class 346.

126, Stoves and Furnaces

in subclass 195, abolish the definition and all search classes thereunder.

128, Surgery

in subclass 151, cancel the definition and substitute:

151. Shields under subclass 132 to prevent injury to the ear by fitting into the auditory canal and sealing it against the entrance of foreign matter.

Search Class—
2—APPAREL, subclass 174, for devices which cover the outer ear (pinna) to keep hair clippings, hair treating solutions and the like out of the ear during toilet operations.

in subclass 326, add:

Search Class—
132—TOILET, subclass 91+, for thread holding and guiding features of dental floss holders.

131, Tobacco

in subclass 106, cancel "(4) Note", and under "Search Class", in the reference to Class 53, change the period to a comma and add:

subclasses 3 and 98 for banding per se, and subclasses 8 and 82 for plural layer cover application where at least one layer is a band.

132, Toilet

in subclass 76.4, under "Search Class", insert:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 236+, for scrapers of general cleaning utility, and see the notes thereto for miscellaneous scrapers of more specialized application.

135, Tents, Canopies, Umbrellas and Canes

in the class definition, under "Search Class", add:

D88—subclass 3+, for designs of tents, umbrellas and canes.

138, Pipes and Tubular Conduits

in the class definition, under "Search Class", insert:

222—DISPENSING, particularly subclass 92+, for containers having collapsible walls of a particular character. Structures disclosed as dispensing containers and having collapsible walls are classified in Class 222, collapsibility per se being a dispensing feature. On the other hand, mere tubular collapsible members not disclosed or claimed as containers or receptacles are classified in this class (138).

139, Textiles, Weaving

in subclass 98, add:

Search Class—
19—TEXTILES, FIBER PREPARATION, subclass .48, for apparatus and processes for separating or aligning substantially parallel continuous filaments before stapilising such filaments.

establish the following subclass definitions:

170.3. Means under subclass 116 for preventing inactive weft threads from being drawn into the shed simultaneously with the active weft during the operation of multiple-shuttle looms.

(1) Note.—Such devices, sometimes called filling locks or sideline eliminators, commonly function to maintain the length of inactive weft extending from its shuttle in a position in which it cannot be contacted by the active weft or shuttle.

(2) Note.—While devices which are mounted near the fell (as on the breast beam or temple support) may exert little more restraint on the inactive weft than that imposed by such weft's attachment to the fabric, they are included in this and indented subclasses since they are most frequently found in conjunction with inactive weft cutters (in which case they supply the support and restraint which can no longer be provided by the fabric itself) and since the additional function performed by those such devices not associated with cutters is the further removal of the inactive weft from the path of the active shuttle. (See Patent 2,219,794 to Turner in subclass 170.6 indented hereunder.)

Search this class, subclass—
134—for multiple shuttle boxes per se.

170.4. Apparatus under subclass 170.3 provided with additional means for severing the inactive weft between its shuttle and the selvage of the fabric being woven.

(1) Note.—Cutters associated with inactive-filling restrainers often are mounted jointly with the loom temples.

Search this class, subclass—
263+—for weft end cutters associated with filling replenishing mechanism.
302+—for loom-mounted selvage trimmers per se.
Search Class—
26—TEXTILES, CLOTH FINISHING, subclass 10.4, for cutters not mounted on a loom and adapted to sever weft loops floating along the selvage of fabric woven on multiple-shuttle looms.

170.6. Apparatus under subclass 170.3 in which the functioning of the restrainer or restrainers with respect to any particular weft is related to the position, relative to the shuttle race, of the shuttle box holding the package of such weft.

Search this class, subclass—
171+—for box change motions for multiple-shuttle looms.

170.7. Apparatus under subclass 170.6 comprising flexible strand or strand-like members disposed substantially parallel to the warps of the fabric being woven but outside the selvage thereof, and provided with means for raising and lowering such members for the purpose of disposing the inactive wefts above or below the path of travel of the active shuttle.

(1) Note.—When the strand member employed is taken from the loom warp supply (later to be returned thereto for weaving into the fabric) it is referred to as a displaced warp. Strand or strand-like restraining members which are extraneous to the fabric being woven are known as dummy warps.

in subclass 263, add:

Search this class, subclass—

170.4—for inactive-weft cutters associated with means for preventing the extending end of such weft in a multiple-shuttle loom from becoming fouled with the active weft supply or otherwise drawn into the shed.

**302 + **—for loom-mounted selvage trimmers not associated with filling replenishing mechanism.

in subclass 302, add:

Search this class, subclass—

170.4—for inactive-weft cutters associated with means for preventing the extending end of such weft from becoming fouled with the active weft supply or otherwise drawn into the shed of a multiple-shuttle loom.

**263 + **—for weft end cutters associated with filling replenishing mechanism.

Search Class—

26—TEXTILES, CLOTH FINISHING, subclass 10.4, for apparatus and processes for the same purpose as those of this subclass, the severing means of which is not loom-mounted.

146, Vegetable and Meat Cutters and Comminutors

in subclass 82, cancel the note and add:

Search Class—

19—TEXTILES, FIBER PREPARATION, subclass .51, for longitudinal overlapping of cut fibers.

100—PRESSES, subclass 31, for bundling in lengths per se.

in subclass 177, under "Search Class", insert:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 236 +, for scrapers of general cleaning utility, and see the notes thereto for miscellaneous scrapers of more specialized application.

in subclass 222, under "Search Class" add:

19—TEXTILES, FIBER PREPARATION, subclass .51, for longitudinal overlapping of cut fibers, and subclass .56 for other treatment or handling of cut fibers.

160, Closures, Partitions and Panels, Flexible and Portable

in the class definition, in "Section I, (c)", change "insets" to *insects*.

164, Cutting and Punching Sheets and Bars

in subclass 10.6, under "Search Class", cancel the reference to Class 75.

in subclass 40, in the definition, cancel "rotated" and substitute *moved*.

168, Farriery

in subclass 48, under "Search Class", insert:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 236 +, for scrapers of general cleaning utility, and see the notes thereto for miscellaneous scrapers of more specialized application.

179, Telephony

in subclass 146, cancel "(1) Note" and substitute:

(1) Note.—Supports adapted for more general use and not limited by structure to use with telephone instruments are classified in the appropriate class providing for the specific type of support. See the references under Search Class below.

and under "Search Class", cancel the reference to Class 211 and Class 248 and substitute:

211—SUPPORTS, RACKS, subclass 168 +, for supporting racks having a pivotally mounted article supporting element, and subclass 175 +, for supporting racks in which the article supporting element is adjustable.

248—SUPPORTS, appropriate subclasses, see especially subclass 127 +, for stands, subclass 200 +, for brackets, and subclass 346 +, for bases such as may be used for supporting a telephone, and see also (2) Note above.

311—SUPPORTS, TABLES, appropriate subclasses for tables and table-like supports, see especially subclass 31 +, for rotatable tables.

188, Brakes

under the class definition, insert:

(3) Note.—The line established between Class 188, BRAKES, and Class 16, MISCELLANEOUS HARDWARE, subclass 35, is as follows: Casters having means to restrain or lock the vertical shank or pintle against rotary motion are classified in Class 16, subclass 35; casters having means to restrain or lock both the vertical shank or pintle and the horizontal or wheel carrying axle or wheel against rotary motion are classified in Class 16, subclass 35; casters having means to lock or restrain the horizontal wheel carrying axle or wheel against rotary motion are classified in Class 188, appropriate subclasses, particularly subclasses 2–85.

206, Special Receptacles and Packages

in subclass 65 under "Search Class", insert:

215—BOTTLES AND JARS, subclass 10, for receptacles of the bottle or jar type which are formed in a manner particularly to adapt them for nesting or stacking with others of the same kind.

211, Supports, Racks

in the class definition, delete "and easels".

220, Metallic Receptacles

in subclass 97, under "Search Class", add:

215—BOTTLES AND JARS, subclass 10, for receptacles of the bottle or jar type which are formed in a manner particularly to adapt them for nesting or stacking with others of the same kind.

222, Dispensing

under the class definition, in note "20", cancel:

For receptacle and container structures, per se.

and substitute:

Collapsibility, per se, is considered to be a dispensing feature, relative to structures disclosed as dispensing containers. For receptacles, containers and tubular conduit structures, not involving dispensing features:

and under "Search Class", insert:

138—PIPES AND TUBULAR CONDUITS, appropriate subclasses, for tubular conduit structures not disclosed as dispensing containers and not including dispensing features. For a statement of the line between Class 138 and Class 222 see the reference to Class 222 in the Search Class note to the class definition of Class 138.

and in the reference to Class 220, change "releated" to *related*.

and add:

229—PAPER RECEPTACLES, and see the notes for related art.

in note "24", in the reference to Class 138, change "22" to *20 and 22*.

and in the reference to Class 229, before "subclasses" insert *sec. 20*.

in subclass 92, under "Search Class", insert:

138—PIPES AND TUBULAR CONDUITS, appropriate subclasses, for mere tubular conduit structures not disclosed as dispensing containers and not involving any other dispensing features. For a statement of the line, see the reference to Class 222 in the Search Class note to the class definition of Class 138.

and cancel the reference to Class 220, and substitute:

220—METALLIC RECEPTACLES, appropriate subclasses, for collapsible container sub-combinations per se, not involving characteristics of the collapsible walls and not involving other dispensing features. See (1) Note to the definition of this subclass, above.

and insert:

229—PAPER RECEPTACLES, for paper container subcombinations not involving characteristics of collapsible walls and not involving dispensing features at present classified in Class 229. Certain subclasses (such as subclasses 7 and 17) of Class 229 contain dispensers and structures of the nature of the types now retained in that class (229) are classified in those subclasses.

223, Apparel Apparatus

in subclass 57, in "(7) Note", cancel the reference to Class 149, and in the reference to Class 12, cancel "21–26, 38, 48, 64 and indented subclasses" and substitute *21, 22, 48, 64 +*.

in subclass 94, add:

Search this class, subclass—

89—for combined type hangers which are foldable or telescopic.

241, Solid Material Comminution or Disintegration

in subclass 4, under "Search Class", insert:

19—TEXTILES, FIBER PREPARATION, subclass .56, for methods of and means for opening bundles of substantially parallel stapled fibers in combination with a stapilizing step or device, and subclasses 66, 72 and 80 +, for fiber mass opening processes and apparatus of general application.

242, Winding and Reeling

in subclass 147, change "(2) Search Class" to *Search Class* and add:

318—ELECTRICITY, MOTIVE POWER SYSTEMS, subclass 6 +, for electrical motive power systems which are effective to control the tension on running material solely by appropriate control of an electric motor.

248, Supports

in subclass 69, in the definition, change "60" to *68*, and "pipe" to *pipes*.

250, Radiant Energy

establish the following subclass:

43.5. Subject matter under subclass 43 having combined therewith means to detect or measure the radiant energy rays or emanations.

(1) Note.—Most of the patents in this subclass detect or measure the rays after they have passed through the fluent material to give an indication of some characteristic of the fluent material.

(2) Note.—The detecting means may be a photographic film or plate or a fluorescent screen.

(3) Note.—Disclosures which teach the subjecting of the fluent material to a ray which causes the material to fluoresce and the amount of fluorescence gives an indication of a characteristic of the material are included in this subclass.

in subclass 83, after "To Complete the Search for This Subject Matter, Search This Class, Subclass", insert:

43.5—for this subject matter where a fluent material is subjected to radiant energy rays or emanations.

in subclass 84, cancel the definition and "(1) Note", and substitute:

84. Subject matter under subclass 42 designed for the production of radiant energy rays and which is not otherwise classified.

(1) Note.—For other classes which provide for ray generators per se, and for ray generators in combination with supporting structure or ray handling means (e. g., reflectors) or ray generators in combination with electrical supply circuits, see the Search Notes below.

cancel "(3)" before "Search Class", and insert:

Search this class, subclass—

106—and the classes specified in the Search Notes thereto for miscellaneous applications of radio active material, (e. g., devices which include radio active material).

in subclass 84, insert:

(2) Note.—For radio active sources with supporting structure (e. g., a radium capsule), see this class, subclass 106.

260, Chemistry, Carbon Compounds

in subclass 29.1, in "(2) Note", correct the spelling of *dispersing*.

in subclass 57, correct the spelling of *formaldehydebisulfite*.

in subclass 77.5, in "(1) Note", cancel the word *carbonylic*.

in subclass 78.4, change "esters or anhydrides" to read *esters, anhydrides or nitriles*.

in subclass 85.5, under "Search this class, subclass", add:

**78.4 + **—for polymers and interpolymers of nitriles derived from polycarboxylic acids.

in subclass 88.7, after "(1) Note", add:

Search this class, subclass—

**78.4 + **—for polymers and interpolymers of nitriles derived from polycarboxylic acids.

in subclass 125, in "(3) Note", change "begetal" to *vegetable*.

in subclass 624, after "methyl" insert *or an alkylene group*.

261, Gas and Liquid Contact Apparatus

in the class definition, under "(3) Search Classes", insert:

43—FISHING, TRAPPING AND VERMIN DESTROYING, for aerators permanently associated with minnow buckets or in combination with significant minnow bucket structure.

266, Metallurgical Apparatus

in the class definition, under "Search Class", insert:

219—ELECTRIC HEATING, subclass 11 +, for electrical heating apparatus for heating solid metal. See especially subclass 13 for heating metal by means of electrical induction.

in subclass 5, change "(2) Search Class" to "Search Class", and insert:

219—ELECTRIC HEATING, subclass 11 +, for electrical heating apparatus for heating solid metal. See especially subclass 13 for heating metal by means of electrical induction.

268, Closure Operators

in the class definition under "Operators special to respective classes" insert:

292—CLOSURE-FASTENERS, appropriate subclasses, for devices for starting a closure open, or drawing it from a substantially closed to a fully closed position, wherein such operation is accomplished by cooperating surfaces on the latch bolts and keepers which function during movement of the bolts into or out of latching condition relative to the keepers.

in subclass 72, under "Search this class, subclass", cancel the reference to subclass 44 and substitute:

44—for operators including starters for reciprocating doors for freight cars.

and add:

Search Class—

292—CLOSURE FASTENERS, appropriate subclasses for devices for starting a closure open, or drawing it from a substantially closed to a fully closed position, wherein such operation is accomplished by cooperating surfaces on the latch bolts and keepers which function during movement of the bolts into or out of latching condition relative to the keepers.

292, Closure Fasteners

in the class definition, under "Search Class", in the reference to Class 268, change the period to a comma and add:

and this class (292) for devices for starting a closure open, or drawing it from a substantially closed to a fully closed position, wherein such operation is accomplished by cooperating surfaces on the latch bolts and keepers which function during movement of the bolts into or out of latching position relative to the keepers.

306, Tool-Handle Fastenings

in the class definition, cancel the word "scythes".

313, Electric Lamp and Discharge Devices

in the class definition, change the "V" before "Lamp and Discharge Device Systems" to *IV*.

and in the same section, under "Search Class", in the reference to Class 314, after "Section III", change the "7" to *9*.

and under "Index to the Classes Referred to in the Previous Sections", in the reference to Class 240, subclass 2.25, change "IV" to *XV*.

318, Electricity, Motive Power Systems

in subclass 18, cancel the definition only and substitute:

18. Subject matter under the class definition having means for starting an electric motor in response to a

change in position of a motor control device or a change in a condition, and having means for stopping the motor automatically when the degree or magnitude of movement of the motor (or the device driven thereby) bears a predetermined relationship or mathematical ratio to the degree or magnitude of such changes.

321, Electricity Conversion Systems

in the class definition, "section VIII", in section "b. Filters", change the word "alternate" to *suppress*.

346, Recorders

in subclass 140, under "Search Class", cancel the reference to Class 120, and substitute:

120—STATIONERY, subclass 42+, for fountain pens, especially subclass 42.06 for such pens having special features adapted for use with recorders, and subclass 113+, for pens with reservoir attachments.

M. C. ROSA,
Executive Examiner.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,517,662. Pipe, Cigar, and Cigarette Lighter. Patented Aug. 8, 1950. Lighter may be used in the usual manner and may also be used for any purpose for which a match would otherwise be appropriate, since a long lighted taper is provided that may be projected above the top of the lighter. The lighter is unique in providing for a fuel supply container with an elongated taper to by-pass igniting mechanism in projecting lighted taper outward of the casing without cutting down on the normal size of the fuel supply container. Lighter is of simplified and compact construction. (Owner) James F. Head, 3121 16th St., NW, Apt. 42, Washington 10, D. C. Groups 34—51; 39—99; 40. Reg. No. 46,852.

Pat. 2,555,132. Portable Game Playing Device Utilizing Balls Simulating Playing Cards. Patented May 29, 1951. Device for the mechanical playing of card games, in which cards are replaced by balls marked with card indicia, is designed for rehabilitation use when players are not able to handle cards. It is particularly adapted for stud poker. Device comprises a casing in which a semi-rotatable mixing drum is turned by a handle; an allocating chamber at opening of drum; and a detachable tray having a display channel and a "down-card" pocket for each player. Rotation of drum back and forth mixes the balls. Counter-clockwise movement brings drum against a stop, depositing balls onto a pivoted runway, which is adjustable by a lever to deal balls to proper channels. By raising a gate at lower end of each channel, balls are stored or returned to drum. Tray and pockets are removed and stored in casing. (Owner) John J. Hickey, 11 Prospect St., Belleville, N. J. Groups 26—99; 39—41—49—81. Reg. No. 46,853.

Pat. 2,504,277. Three-In-One Greeting Card. Patented Apr. 18, 1950. Folded greeting card having front and rear sheet members may be selectively transformed into an easel type calendar having a picture on the back, or into a hanging wall calendar having a picture at the top. A picture concealing a calendar is mounted on the outer side of the front sheet by inserting the corners of the picture in slits in the sheet. A message card concealing a tab is mounted on the inner side of the rear sheet in the same manner. The picture and message card may be removed, and the picture mounted on the outer side of the rear sheet. The tab may then be used to hold the greeting card in inverted V-shape on a desk, or as a hanger to hold the greeting card unfolded on a wall. (Owner) Oscar L. Otterson, 527 Morton Ave., Butler, Pa. Groups 27—41—51—61—92; 40. Reg. No. 46,854.

Pat. 2,573,876. Fastener for Buttons. Patented Nov. 6, 1951. Button and fastener therefor for detachably fastening to garments without sewing. A boss on under side of button has a transverse opening with slot extending to center of button and a communicating opening. A wire stem has a spiral coil forming a base, with a pointed end providing a pin lock. Upper end of stem has a loop on one side and a U-shaped bow with leg on other side to snap into the openings and lock fastener to button. To attach button to garment, the pin is extended through the material and the button turned to screw the coil into the material. The pin is placed on top of coil, locking the stem. To remove button, the pin is dropped below the coil, and the button turned in opposite direction. (Owner) Manuel J. Rodrigues, 518 South Virgil Ave., Los Angeles 5, Calif. Groups 39—61—99; 40. Reg. No. 46,855.

Des. 122,575. Design for a Combination Container Cap Remover and Screw Driver. Patented Sept. 17, 1940. (Term of patent 14 years). Combination screw driver, 3-inch measure, and tool for removing vacuum caps, crown caps, screw caps, and pressed-down lids. Small enough to be carried in a pocket. (Owner) John B. Smiley, 2000 Connecticut Ave., N. W., Washington 8, D. C. Groups 33—51—52—73; 40. Reg. No. 46,856.

Pat. 2,232,680. Standard Typewriter Type Cleaner. Patented Feb. 25, 1941. Cleaner may be held in one hand and typewriter keys struck with fingers of other hand to clean the type. A cleaning element such as a stiff brush is fastened in a ferrule which has a handle at upper side. A downwardly extending flat guiding tongue extends from handle to under side of ferrule to slide between the members of the typewriter type guide. When a key is struck, its end will strike the cleaning element and remove accumulated ink, etc. The shoulder on the type guide support will engage the guiding tongue and prevent the device from striking the platen or disturbing any work thereon. (Owner) John B. Smiley, 2000 Connecticut Ave., N. W., Washington 8, D. C. Groups 28—93; 35—72; 39—22; 40. Reg. No. 46,857.

Pat. 2,567,392. Fluid Sustained Aircraft. Patented Sept. 11, 1951. Helicopter of the type having a circular streamline body providing a combination fuselage and wing has a vertical well with a frusto-conical base mounted in the lower end of the well, and a horisontal propeller mounted inside the well on top of the base. The periphery of the lower end of the base is spaced from the wall of the well to provide a comparatively small annular air passage through which air from the propeller may be discharged with jet-like action. Slides may be adjusted to close the passage and direct the air through a rearwardly extending tunnel having a restricted throat through which the air is discharged with jet-like action for traveling horizontally. A jet engine in the throat may be used to provide power for traveling horizontally, or as auxiliary power. Shutter units at the top of the well are adjustable for controlling the admission of air into the well. (Owner) Harold Naught, R. R. 5, Rushville, Ill. Groups 37—21. Reg. No. 46,858.

Pat 2,333,614. Pump System. Patented Nov. 2, 1943. This invention relates to a section of a driveway designed to utilize vehicles passing thereover to compress air in a storage tank. Flanged plates are anchored in a driveway. Compressible dome-shaped cups secured to the flanges normally project above the face of the pavement. Inlet and outlet conduits communicating with each cup are provided with check valves. The inlet conduits communicate with the atmosphere, and the outlet conduits communicate with a storage tank. The cups are collapsed when a vehicle passes thereover and deliver air trapped therein to a storage tank. (Co-owner) Coley B. Whelchel, 3956 Pennsylvania Ave., S. E., Washington 20, D. C. Group 35—61. Reg. No. 46,859.

Pat. 2,469,781. Lens Holder for Projector Enlargers and Cameras. Patented May 10, 1949. Lens support for an enlarging camera facilitates rapid changing of lenses, and adjustment of diaphragm apertures especially under darkroom conditions. A changeable barrel of the support carries a conventional lens assembly having a diaphragm-changing ring. A downwardly flaring skirt member secured to the ring is formed with a knurled annular bottom rim, which underlies and is spaced from a knurled bottom rim of the barrel. The bottom of the barrel rim adjacent a scale is formed with spaced notches, and the skirt rim carries a tapered upstanding lug engageable in the notches. The skirt may be rotated relative to the barrel to adjust the lens diaphragm. When the scale is invisible under darkroom conditions, the operator may count the notches as he turns the skirt to set the diaphragm to a predetermined aperture size. (Owner) Jerry M. Peters, Box 168, Springfield, Mo. Group 39—12. Reg. No. 46,860.

Des. 165,273. Combined Table and Cabinet. Patented Nov. 27, 1951 (Term of patent 14 years). Design for a coffee table having a cabinet underneath the center portion closed at front and rear by hinged side panels which swing downwardly. (Owner) Richard J. Dunlap, 1024 Bonfoy Ave., Colorado Springs, Colo. Group 25—11—13—14. Reg. No. 46,861.

General Electric Company offers the following 22 patents for non-exclusive licensing on reasonable terms to domestic manufacturers. Applications for licenses may be addressed to the Manager, Patent Department, General Electric Company, 1 River Road, Schenectady, N. Y.

Included in this list are electrical wiring devices such as convenience outlets, connectors, sockets, fixtures, plates, and plugs. Also included are paper containers for shipping and displaying electric attachment cord sets, and a portable electric service tray for electric coffee makers, toasters, waffle irons, etc. Groups 26—61—63—64; 36—11—21. Reg. Nos. 46,862 through 46,883.

Pat. 2,031,453. Convenience Outlet. Feb. 18, 1936.

Pat. 2,055,329. Electrical Connector. Sept. 22, 1936

Pat. 2,095,121. Heater Plug With Rocker Switch. Oct. 5, 1937.

Pat. 2,145,107. Tray. Jan. 24, 1939.

Pat. 2,158,848. Electric Socket. May 16, 1939.

Pat. 2,162,545. Electric Fixture. June 13, 1939.

Pat. 2,166,790. Electrical Device. July 18, 1939.

Pat. 2,169,868. Electric Socket. Aug. 15, 1939.

Pat. 2,173,705. Electric Fixture. Sept. 19, 1939.

Pat. 2,196,052. Plug Cap. Apr. 2, 1940.

Pat. 2,211,591. Attachment Plug Cap. Aug. 13, 1940.

Pat. 2,215,316. Electrical Receptacle. Sept. 17, 1940.

Pat. 2,221,505. Combined Adapter and Reflector for Lamps. Nov. 12, 1940.

Pat. 2,229,403. Lamp Socket. Jan. 21, 1941.

Pat. 2,230,719. Paper Container. Feb. 4, 1941.

Pat. 2,233,195. Electric Connector. Feb. 24, 1941.

Pat. 2,253,163. Electric Socket. Aug. 19, 1941.

Pat. 2,253,974. Paper Container. Aug. 26, 1941.

Pat. 2,398,996. Electric Plug. Apr. 23, 1946.

Pat. 2,440,924. Cord Set and Junction Block Therefor. May 4, 1948.

Pat. 2,457,520. Plug Connector. Dec. 28, 1948.

Pat. 2,495,623. Plug Connector. Jan. 24, 1950.

E. I. du Pont de Nemours & Company offers the following 14 patents for non-exclusive licenses to (1) make adhesive cement compositions containing a polyisocyanate and an elastomeric material, (2) use such compositions in the bonding together of two or more surfaces to make composite structures other than pressure-sensitive adhesive tapes and sheets, and (3) use or sell such structures, at a specified royalty per pound on all polyisocyanates used in practicing the licensed inventions under such patents.

Inquiries concerning these patents should be addressed to Patent Division, E. I. du Pont de Nemours and Company, Wilmington 98, Del.

SCHEDULE XXIII—14 Patents

*Pat. 2,284,896. Process for Making Polymeric Products and for Modifying Polymeric Products. Patented June 2, 1942. Reaction of diisocyanates and related compounds with substances containing at least two reactive hydrogen atoms. Groups 22—23; 28—83; 39—12. Reg. No. 46,884.

Pat. 2,333,639. Treatment of Polyesters and Product Therefrom. Patented Nov. 9, 1943. Diisocyanate-treated polyesters or polyesteramides. Groups 22—23; 28—83; 39—12. Reg. No. 46,885.

Pat. 2,333,914. Isocyanate Treatment of Polyamides. Patented Nov. 9, 1943. Process for reacting isocyanates and isothiocyanates with polyamides and products obtained therefrom. Groups 22—23; 28—83; 39—12. Reg. No. 46,886.

*Pat. 2,339,912. Treatment of Cellulose Derivatives. Patented Jan. 25, 1944. Modification of organic solvent-soluble cellulose derivatives containing esterifiable hydroxyl groups, especially cellulose acetate, by reaction with organic diisocyanates. Groups 28—51—83—89; 39—12. Reg. No. 46,887.

*Pat. 2,339,913. Cellulose Treatment Process. Patented Jan. 25, 1944. Modification of cellulosic materials by treatment with polyisocyanates or polyisothiocyanates. Groups 28—51—83—89; 39—12. Reg. No. 46,888.

Pat. 2,381,186. Rubber-To-Metal Adhesions. Patented Aug. 7, 1945. A composite article of rubber bonded to metal in which the bonding layer is an adhesive comprising a cyclized rubber and an organic diisocyanate. Groups 28—83—99; 30—51. Reg. No. 46,889.

Pat. 2,400,474. Adhesives Comprising an Olefin Polysulphide Rubber. Patented May 14, 1946. An adhesive comprising an olefin polysulphide rubber and an organic diisocyanate. Groups 28—83—99; 30—51. Reg. No. 46,890.

*Pat. 2,415,839. Composite Structures. Patented Feb. 18, 1947. Reinforced rubber articles are made by applying to a fibrous reinforcing structure an organic cyanate from the group consisting of polyisocyanates, polyisothiocyanates, and mixed isocyanate-isothiocyanate compounds, and a rubber. Groups 28—83—99; 30—51. Reg. No. 46,891.

*Pat. 2,417,424. Treatment of Aldehyde-Modified Rubbers With Polyiso or Polyisothiocyanates. Patented Mar. 18, 1947. Reaction product of aldehyde-modified natural rubber or neoprene with an organic compound containing 2 or 3 isocyanate or isothiocyanate radicals. Groups 28—83; 30—11—31—93. Reg. No. 46,892.

*Pat. 2,417,792. Adhesive Compositions and Process. Patented Mar. 18, 1947. The reaction product of an elastic isoprene polymer or natural rubber and an organic diisocyanate. When the product is dissolved in an organic solvent it is an adhesive suitable for bonding textile reinforcing structures to elastomeric stock, e. g., neoprene. Groups 28—83—99; 30—51. Reg. No. 46,893.

*Pat. 2,430,479. Bonding of Laminates by Means of Isocyanates. Patented Nov. 11, 1947. Bonding of different active hydrogen-containing polymers by means of diisocyanates, e. g., bonding of neoprene to cellulosic yarn by a diisocyanate and the bonding of the modified yarn to rubber. Groups 22—23; 28—51—83. Reg. No. 46,894.

*Pat. 2,436,222. Adhesive Cement Compositions. Patented Feb. 17, 1948. An adhesive cement composition containing an elastoprene, an organic diisocyanate, and a non-reactive volatile organic solvent. Groups 28—99; 30—51. Reg. No. 46,895.

Pat. 2,439,369. Condensation Derivative of Rubber. Patented Apr. 6, 1948. An adhesive comprising a condensation derivative of rubber and an organic diisocyanate. Groups 28—99; 30—51. Reg. No. 46,896.

*Pat. 2,439,514. Composite Structures. Patented Apr. 13, 1948. The use of active hydrogen-containing rubber and a diisocyanate for the bonding of tire cord to rubber. Groups 22—11—13; 30—11—41—51—92—93. Reg. No. 46,897.

*These patents were published in the OFFICIAL GAZETTE, March 14, 1950, under the conditions of Schedule XIV. They are hereby withdrawn from that category and included under the conditions of Schedule XXIII.

Royalty-Free Patent

E. I. du Pont de Nemours & Company hereby grants a free, irrevocable, and unlimited license to the Government and People of the United States of America under the following patent. The term "People" as used herein is to be understood to include sole individuals, firms, corporations and other business associations and institutions, whether operated for profit or not. This patent was previously registered as available for licensing on reasonable terms, and published in the OFFICIAL GAZETTE, Jan. 4, 1949. It is hereby withdrawn from this category and becomes a royalty-free patent.

Inquiries concerning this patent should be addressed to Patent Division, E. I. du Pont de Nemours and Company, Wilmington 98, Del.

Pat. 2,230,559. Packaging Stockings. Patented Feb. 4, 1941. Hosiery package in which the hosiery is supported on a card in predetermined fashion and the whole contained in a transparent envelope on which is printed a scale so that the length of the hosiery is readily apparent without opening the package. Groups 22—41—42; 35—52—69; 26—41. Reg. No. 46,898.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING FEBRUARY, 1952

EX PARTE EMPIRE STATE THERMOMETER CO., INC., 173 Ms. D. 644, 92 USPQ 218, February 5, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing the registration of the term "IDEAL" for clinical thermometers on the Principal Register under the 1946 act, in view of a prior registration of the identical mark used upon thermometers and steam pressure and altitude gauges.

After noting that the question here presented is whether an ordinary purchaser familiar with the registrant's mark "IDEAL" would be likely to be deceived into thinking that applicant's clinical thermometer sold with the mark "IDEAL" thereon or in connection therewith, originated with the registrant, it was held that confusion in trade would be likely as to the source of origin of the applicant's goods.

EX PARTE PERCY BARKER, 173 Ms. D. 643, 92 USPQ 218, February 5, 1952.

Application was made for registration on the Principal Register under the provisions of the act of 1946 of the term "CHERRY—BERRY—BING" applied to a fruit and berry preserves. The Examiner of Trade-Marks refused registration on the ground that the term is not capable of functioning as a trade-mark to distinguish the applicant's goods in commerce for the reason that the principal ingredients of applicant's goods are bing cherries and loganberries, so that the words "CHERRY," "BERRY," and "BING" were considered to be generic and merely indicative of the principal ingredients of the applicant's goods. *Assistant Commissioner Klinge* reversed.

It was held that while it may be true that each of the individual words in the present applicant's mark are generic and thus independently unregistrable, nevertheless, their unusual association or arrangement in the applicant's mark results in a unique and catchy expression which does not, without some analysis and rearrangement of its components suggest the contents of applicant's goods, so that disagreement was expressed with the Examiner's holding in the present case that the applicant's mark is incapable of functioning as a trade-mark to distinguish the applicant's goods in commerce.

G. R. KINNEY CO., INC. *v.* STYLECRAFT HOSIERY CORP., 173 Ms. D. 646, 92 USPQ 219, February 6, 1952, Opposition No. 28,969.

Application was made for registration of the mark "STYLECRAFT JIGGER SOX" in the form of a composite mark including an outline resembling a shield within which the words appear. The notation "STYLECRAFT" is displayed near the top of the shield, but within the border thereof, with the notation "JIGGER SOX" appearing below and likewise within the border. The word "SOX" has been disclaimed apart from the mark as shown. Opposition was filed. Applicant conceded priority of use of the mark "STYLE-CRAFT" in the opposer as well as opposer's ownership of its pleaded registration. The applicant set up as an affirmative defense the ground of res judicata. There was a prior opposition proceeding No. 23,552, between the same parties, as a result of which Registration No. 430,707 was issued to the applicant for the identical notation "STYLECRAFT" shown in opposer's registration because in that proceeding opposer failed to prove title to its pleaded registration. The Examiner of Trade-Mark interferences dismissed the instant opposition, because the fact that the applicant prevailed in the prior proceeding because of the opposer's failure to prove title to its registration does not preclude the application of the doctrine of res judicata in the present proceeding since a judgment, even if it be a default judgment, is just as binding as one following contest, the prior proceeding being conclusive as to every issue that was or could have been decided therein. *Assistant Commissioner Klinge* affirmed.

It was held that the ground of res judicata relied upon by applicant here is proper and the Examiner's decision so holding should be sustained.

It was held that the fact that this application is under the act of 1946 whereas the earlier application was under the act of 1905, is of no importance in the present proceeding, since the issues in both proceedings being the same, so far as the type of proceeding is concernd, the act of 1946 gives no greater right to an opposer than does the act of 1905, an opposition proceeding being no different under the one act as compared to the other.

It was held that in view of the substantial similarity between the mark of the opposer and that of the applicant here, and further in view of the fact that priority of use of the mark "STYLECRAFT" and ownership of the pleaded registrations concededly reside in the opposer, the Examiner of Trade-Marks will reconsider ex parte the registrability of the applicant's mark when the present proceeding is finally terminated.

HERITAGE FURNITURE, INC. *v.* UNITED FURNITURE STORES, 173 Ms. D. 649, 92 USPQ 221, February 7, 1952, Cancellation No. 5457.

Registration No. 369,403 for the trade-mark "HERITAGE" used on specified items of furniture was obtained on an application filed May 19, 1938, under the act of 1905, making the necessary averments required of an applicant for registration of a trade-mark. Registrant is an association whose members are retail dealers in furniture and the mark is used by the dealers alone, registrant itself not using the mark on any goods. Petition for cancellation was filed. The Examiner of Interferences sustained the petition on the ground that the registration was improperly obtained. *Assistant Commissioner Klinge* affirmed.

It was held that the application made on May 19, 1938, was obviously improper, since it contained actual misstatements under oath; the actual facts were not revealed to the Patent Office so that the decision of the Examiner of Trade-Mark Interferences holding that the registration was improperly obtained must therefore be affirmed.

After noting section 7(g) of the Trade-Mark Act of 1946, it was held that if it be assumed that this section is applicable to a registration defective for the reasons here present, which is doubtful, nevertheless the registration should not be treated as though amended, since registrant has taken no steps to secure a correction under this statute; in a case where false statements are made under oath in an application for registration it is difficult to see how the registrant could make out a case warranting amendment of the registration.

It was noted that registrant has obtained a new registration, as a collective mark, for the trade-mark "HERITAGE" under the Trade-Mark Act of 1946.

EX PARTE SAMSON UNITED CORPORATION, 173 Ms. D. 653, 92 USPQ 223, February 8, 1952.

Application was made for registration on the Principal Register of the act of 1946 of the expression "STEEL-ROCK" for electric heating units used in electric waffle irons, electric flat irons and similar electrical appliances, the word "STEEL" being disclaimed except when used as a component of the trade-mark sought to be registered. Since the specimens submitted with the application illustrate applicant's heating unit, composed essentially of resistance wire imbedded in some sort of nonconductive material which the applicant terms "chemi-rock," which is "encased in steel," the Examiner considered the word "STEEL" directly descriptive of the goods and also considered the word "ROCK" as being descriptive and if not descriptive, then deceptively misdescriptive of the goods, and therefore refused registration on the theory that a registrable mark cannot be made by combining two nonregistrable words, especially where the two words in combination describe the quality of the applicant's goods. *Assistant Commissioner Klinge* reversed.

It was held that while the word "STEEL" may indicate the character of the casing for applicant's resistance units and the word "ROCK" is a component part of the undefined expression "chemi-rock," nevertheless, when the mark "STEEL-ROCK" is considered in its entirety it is not merely descriptive of the goods, but is more or less fanciful and therefore proper subject matter for registration when used on the merchandise defined in the present application.

BROWN & BIGELOW *v.* EUGENE DIETZGEN CO., 173 Ms. D. 654, 92 USPQ 228, February 11, 1952, Opposition No. 28,894.

Application was made for registration of the trade-mark "REDIRULE" applied to slide rules. Opposition proceeding was instituted under the act of 1946 in which the Examiner of Trade-Mark Interferences sustained the notice of opposition, holding that, in view of the conceded ownership and prior use by the opposer of its mark "REDIPOINT" applied to magazine-pencils, since as applied to slide rules the term "Redi" is the only part of the applicant's mark "REDIRULE" capable of denoting origin of the goods, confusion, or mistake, or deception of purchasers is clearly likely to arise from the contemporaneous use of the two marks for the goods involved. *Assistant Commissioner Klinge* reversed.

Considering first the marks of the respective parties, it was held that except for the prefix "REDI" common to both marks, there is no similarity in sound, appearance or meaning.

It was held that the notation "REDI" is obviously a phonetic misspelling of the common word "ready," and no one is entitled to monopolize the word "ready," even in its phonetic equivalent.

As to the goods on which the respective marks are used, it was held that slide rules, regardless of their size or portability, are sold to a relatively small and discriminating class of purchasers who select them with a view to their mechanical excellence and accuracy, with due regard to the price the customer can afford to pay and considering the reputation of a particular manufacturer.

Considering the marks in their entireties, and taking into consideration all of the above-mentioned factors, it was held that there would be no likelihood of confusion as to the source of origin of the applicant's goods.

EX PARTE THE STANDARD OIL COMPANY, 173 Ms. D. 665, — USPQ —, February 19, 1952.

Examiner-in-Chief Federico affirmed the decision of the Examiner of Trade-Marks refusing registration of the term "LUBRI-CHECK" as a service mark, used for certain services rendered by automobile service stations, on the ground that the services are not in "commerce" as defined and intended by the Trade-Mark Act of 1946, but are wholly intrastate in character.

After noting that the question is presented of whether a mark used solely in intrastate commerce but which commerce may or does affect interstate commerce, may be registered, it was held that registration cannot be obtained when the services are rendered in intrastate commerce and not actively rendered in interstate commerce.

GENERAL MOTORS CORPORATION *v.* UNITED STATES AIR CONDITIONING CORPORATION, 173 Ms. D. 662, — USPQ —, February 19, 1952, Opposition No. 28,579.

Application was made to register the term "KOOLER-AIRE" under the provisions of section 2(f) of the Trade-Mark Act of 1946 as a trade-mark for mechanically actuated air cooling and conditioning apparatus for stationary installation. Opposition was filed predicated upon opposer's prior use and ownership of the trade-mark "FRIGIDAIRE" for mechanical refrigerators, mechanical refrigerating systems and elements thereof, and for mechanically actuated air cooling and conditioning apparatus for stationary installation including room coolers and air conditioning apparatus. The Examiner found that the opposer was the prior user of its mark on substantially the same goods as those of the applicant, but dismissed the opposition on the ground of estoppel by laches without making any ruling on the question of whether the respective marks are confusingly similar. *Examiner-in-Chief Federico* reversed and remanded.

It was held that laches has no application to the present case for a number of reasons; first, this is an opposition proceeding filed within the period specified in the statute and opposer could not have filed the opposition in any other period; second, the application is still a pending application within the jurisdiction of the Patent Office, and no reason is seen for considering the question of laches in an opposition proceeding when the Office would have to act on the application ex parte disregarding any question of laches; and finally applicant waited almost twenty years to secure a Federal registration and should not be heard to complain when someone opposes the registration within the time permitted by statute.

After noting that the Examiner did not in fact rule on the question of the similarity of the marks, which is the only real issue in the case, it was held that the Examiner's consideration of and decision on this question should be in the record and the case will be remanded to the Examiner to render a decision on this question.

It was further held that the application should be reexamined ex parte, since the right to registration is predicated upon a sworn allegation of five years' substantially exclusive use, yet a letter written by applicant in 1946 indicated knowledge of a number of companies who use on heating, ventilating and cooling equipment the term "Koolair," "Koolare," etc., which terms are so close to applicant's mark that their use would rebut any claim by applicant of substantially exclusive use.

EX PARTE RADIO CORPORATION OF AMERICA, 173 Ms. D. 667, — USPQ —, February 20, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing registration of the slogan "THE MUSIC YOU WANT WHEN YOU WANT IT" as a service mark in connection with a serial radio program of which the slogan is the title, on the ground that the notation is used by the applicant to advertise its *goods* rather than in the sale or advertising of services rendered by the applicant as required by statute.

It was held that the applicant's slogan primarily advertises the records played on its program even though it may also function to identify a program which is a sales promotion program which may be a medium to promote goodwill, but which applicant neither sells nor advertises as a service which others may use, to bring it within the provisions of the trade-mark law. Even though the applicant's slogan identifies its program and distinguishes it from the programs of others, that is not enough where the primary purpose of the program is the advertising of goods, not services.

EX PARTE BROWN & BIGELOW, 173 Ms. D. 675, — USPQ —, February 20, 1952.

Application was made for registration of the mark "B & B" for pyrophoric cigar lighters, under the act of July 5, 1946. The Examiner refused registration in view of six registrations of marks for various articles used by smokers, on the ground that applicant's notation "B & B," which is the sole feature of the applicant's mark, is so nearly like the letters "B," "B B" and "B B B" of the registered marks that their concurrent use on closely related goods, smokers' articles, would quite likely result in confusion in trade. *Assistant Commissioner Klinge* affirmed.

It was held that while certain dissimilarities in the arrangement of the letters in the marks under consideration are readily apparent on inspection, they would hardly serve to distinguish the marks when spoken and would not readily be retained in the minds of prospective purchasers of the goods, so that the similarities characterizing the several marks are considered to outweigh the dissimilarities between them.

In response to applicant's contention that its date of use was earlier than that claimed in one registration, and that it should be withdrawn as a reference, it was held that section 2(d) prohibits the registration of a mark which so closely resembles a registered mark that, when applied to the goods of the applicant, there would be confusion or mistake or deception of purchasers, so that, as the registration was granted on May 30, 1922, and renewed, while the present application was filed April 17, 1948, registration of the applicant's mark was properly refused.

WAWAK COMPANY, INC. *v.* A. SOLOMON, 173 Ms. D. 660, — USPQ —, February 20, 1952, Opposition No. 29,112.

Application was made for registration of the trade-mark "So-Cool" for clothing for men, students and boys, namely, suits, coats, pants and vests, under section 2(f) of the act of 1946. Opposition was filed, opposer alleging that the applicant's mark so resembles the previously adopted mark "O-So-Cool" as shown in opposer's Registration No. 407,832, applied to piece goods, namely, woolen, worsted and mohair summer suiting, as to be likely to cause confusion in trade as to the source of origin of the applicant's goods. The Examiner of Trade-Mark Interferences sustained the opposition. *Assistant Commissioner Klinge* affirmed.

It was held that in regard to the marks it is considered that the notation "So-Cool" so resembles the opposer's mark "O-So-Cool" in sound and appearance that when applied to similar goods there would be likelihood of confusion in trade.

It was held that opposer's tropical worsted material and the articles of wearing apparel sold by the applicant are unquestionably closely related, opposer's textile materials being used in making the same type of articles of clothing to which the applicant's mark is applied, and are so inseparably or intimately related that the contemporaneous marketing thereof under the same or confusingly similar marks would be likely to cause confusion in trade.

In response to applicant's contention that opposer has not sustained its burden of proof, because no actual sales by the opposer have been proven, and, if any were, they were only sporadic to custom fabricators, it was held that interruptions in the sale of opposer's goods, referred to by applicant as "sporadic," was clearly the result of unforeseeable conditions over which the opposer had no control and there is no foundation for the applicant's assertion that the consumer never saw opposer's mark when selecting material for a custom-made suit, so that the testimony submitted by opposer is considered sufficient in this case to establish use of its mark on the goods specified and to sustain the opposition.

EX PARTE BROWN & BIGELOW, 173 Ms. D. 677, — USPQ —, February 20, 1952.

Application was made for registration under the act of 1946, of a trade-mark consisting of the letters "B & B" for use on ash trays. Registration was refused by the Examiner of Trade-Marks in view of certain registrations. *Assistant Commissioner Klinge* affirmed.

After noting that the refusal to register the mark in the present application is based upon the same registrations considered in a decision of even date, and the same issue therein presented is here involved, the single difference residing in the goods to which the mark is applied, it was held that for the reasons stated there the decision of the Examiner of Trade-Marks in the present appeal is likewise sustained.

EX PARTE CARTER PUBLICATIONS, INC., 173 Ms. D. 671, — USPQ —, February 20, 1952.

Application was made for registration as a service mark of the representation of a fictitious character in the form of a puppet claimed to be used for entertainment services in the nature of a puppet show rendered in a series of television programs, in Class 107, Education and entertainment. Photographs of the puppet were submitted as specimens, each accompanied by a typewritten description of the appearance, character, voice, mannerisms and the name "Hagbag, the Glamorous Dame"; the name does not appear on the photographs and it is agreed that its inclusion would not affect the registrability of the applicant's mark one way or the other. The Examiner of Trade-Marks refused registration. *Assistant Commissioner Klinge* affirmed.

After noting that the issue here presented is whether a fictitious character appearing in a series of televised film programs as a service to the public is registrable as a service mark under sections 3 and 45 of the statute, it was held that it appears that the puppet which the applicant's alleged mark represents is used neither to sell nor to advertise the applicant's services, nor is it clear how it is a "distinctive" feature of radio in that sense, so that the mark is not registrable as a service mark. It is not the show itself which would be identified, but merely one of the characters appearing therein.

It was held that decisions involving character *names* to which applicant calls attention in the brief are not decisive of the issue here presented and they need not be discussed.

EX PARTE LOFT CANDY CORP., 173 Ms. D. 678, 92 USPQ 279, February 21, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing to register the words "JOY POPS," used on candy, on the Principal Register under the act of 1946, on the ground that it is confusingly similar to the mark shown in Registration No. 419,191 for the trade-mark "POPJOY" superimposed on the representation of an ear of corn, the goods to which the registered mark is applied being popped and unpopped corn.

It was held that each mark contains precisely the same syllables, reversely arranged, so that each resembles the other to that marked extent, and the background of the ear of corn in the registered mark would be of little or no significance in the mind of the average purchaser of the respective commodities to which the marks are applied.

EX PARTE THE SCHATZ MANUFACTURING COMPANY, 173 Ms. D. 679, 92 USPQ 254, February 21, 1952.

Application was made for registration of the word "Commercial" for annular ball bearings on the Principal Register of the act of 1946. The Examiner of Trade-Marks refused registration on the ground that the mark is not distinctive, being nothing more than a grade mark, and for the further reason that the word "Commercial" is so descriptive of products fit for commerce, or fit for exchange or buying and selling in the market as to be incapable of distinguishing goods in commerce. *Assistant Commissioner Klinge* held that there is nothing in the record to indicate that applicant uses the term "Commercial" to denote one of several types of bearings in which it deals, but affirmed the decision of the Examiner.

It was held that considering the descriptive nature of the word "Commercial," i. e., that it is incapable of distinguishing the goods in commerce, there is no question but that those in this field have referred to certain types of bearings as being designed for commercial use as distinguished from other uses, it being further noted that the labels submitted with this application refer to the applicant's products as Schatz "Commercial" ball bearings, the "low-cost multipurpose ball bearing," and that applicant's labels indicate that the word "Commercial" is used in a descriptive sense rather than being set apart as a mark of origin.

It was held that the fact that the applicant has used the word "Commercial" for thirty-four years does not establish that the word has acquired trade-mark significance, nor is an affidavit of the president of a jobber corporation to the effect that he has never heard the word "Commercial" used descriptively by purchasers or manufacturers in connection with ball bearings, considered persuasive that the word is not in fact descriptive or that the word as used by applicant has acquired trade-mark significance or is even capable of that function.

VESTAL LABORATORIES, INC. *v.* HILLYARD CHEMICAL COMPANY, HILLYARD CHEMICAL COMPANY *v.* VESTAL LABORATORIES, INC., 173 Ms. D. 682, 92 USPQ 289, February 25, 1952, Opposition No. 28, 169, Cancellation No. 5426.

Hillyard obtained Registration No. 184,889 (renewed) of the words "Shine-All" with a background of a radiating sun for furniture cleaning and polishing compound. Later, Vestal obtained Registration No. 228,523 (renewed) of the words "Briten-All" set over a picture of a radiating barrel head. Hillyard in 1928 obtained, under the Trade-Mark Act of 1920, Registration No. 250,718 of the mark "Briten-Zit" for cleaner for floors and woodwork. On the approach of the expiration of its act of 1920 registration Hillyard applied for a new registration of "Briten-Zit" under section 2(f) of the Trade-Mark Act of 1946. The Hillyard "Briten-Zit" application was published for opposition and Vestal filed a notice of opposition based on Vestal's prior and continuous use of "Briten-All" and on its registration. Thereafter Hillyard filed a petition to cancel the Vestal "Briten-All" registration based upon Hillyard's prior and continuous use of "Shine-All and on its registration." The Examiner of Interferences sustained the opposition, and dismissed the cancellation proceeding on the ground of laches, and on the ground of lack of confusing similarity between "Shine-All" and "Briten-All." *Examiner-in-Chief Federico* affirmed the decision sustaining the opposition and reversed the decision which had dismissed the petition for cancellation.

It was held that the Examiner was right in ruling that the two marks "Briten-Zit" and "Briten-All" are confusingly similar, as they not only have similar connotations but they are also similar in sound, so that the mark of the application cannot be registered as the opposer is prior in the use of its mark. Furthermore, the application is based upon section 2(f) of the Trade-Mark Act of 1946, asserting distinctiveness by reason of substantially exclusive use for the five years preceding the filing of the application, and the concurrent use of a confusingly similar mark during the same period rebuts this allegation.

It was held that the terms "Shine-All" and "Briten-All" when used with reference to cleaning and polishing compositions are practically identical in meaning, and the remaining parts of both marks being identical, the marks as a whole mean about the same thing and are confusingly similar.

The application of laches in the cancellation proceeding was held not justified, in view of the fact that laches may not ordinarily be raised when the statute specifies a definite time within which a purely statutory action may be brought and the action has been brought within the specified time, namely within five years from the date of republication of the registration under the provisions of section 12(c) of the Trade-Mark Act of 1946.

It was further held that laches is not applicable where the cancellation was brought as a matter of defense by counter-attack, since there is nothing opprobrious in bringing a petition to cancel a registration upon which an opposition is based when there are bona fide grounds on which the petition is based; in fact, an applicant is required to do so, because it has been held in numerous cases that an applicant in an opposition proceeding may not challenge the validity of a registered mark of the opposer relied on in the opposition as a direct defense to the opposition.

EX PARTE TOBIAS KOTZIN (DOING BUSINESS AS A-1 MANUFACTURING COMPANY), 173 Ms. D. 690, 92 USPQ 280, February 26, 1952.

Application was made for registration of the words "GOLD RIVET" as a trade-mark for trousers, dungarees and jackets. The application

was originally filed under the act of 1905, and was subsequently converted to the act of 1946, registration now being sought on the Principal Register under the provisions of section 2(f). The Examiner of Trade-Marks refused registration on the ground that the notation "GOLD RIVET" which describes the color and type of fastening and reinforcing devices used on applicant's garments is incapable of indicating origin or of identifying and distinguishing applicant's goods from those manufactured and sold by others. *Assistant Commissioner Klinge* reversed.

It was held that while it is unquestionably true that metal rivets are commonly used as fastening and reinforcing means on work clothes, in the form of either brass or copper rivets, nevertheless the proof of distinctiveness submitted in this case, including affidavits by those in the trade handling the applicant's goods to the effect that customers in their stores identify and purchase the applicant's goods by the name "GOLD RIVET," is believed to be sufficient to warrant registration of the applicant's trade-mark "GOLD RIVET" for the garments specified.

EX PARTE TOBIAS KOTZIN (DOING BUSINESS AS A-1 MANUFACTURING COMPANY), 173 MS. D. 685, 92 USPQ 281, February 26, 1952.

Application was made for registration under the provisions of section 2(f) of the act of 1946 of a gold-covered rivet as a trade-mark for trousers, dungarees and jackets. The rivet is illustrated on the drawing of the application both in plan view and in side elevation with the legend "Gold Plated" associated therewith, to indicate the color thereof. Other descriptive matter on the drawing indicates that the device serves the purpose of securing fabric layers of a garment together. The Examiner of Trade-Marks refused registration on the ground that applicant's gold-covered rivet is incapable of functioning as a trade-mark to indicate origin or to identify and distinguish applicant's garments from those manufactured and sold by others. *Assistant Commissioner Klinge* affirmed.

It was held that, after carefully considering applicant's exhibits and affidavits, the showing there made is insufficient to establish that applicant's gold headed rivets have acquired or could acquire trade-mark significance to distinguish applicant's goods in the mind of the public from like goods of others, so that applicant's gold-colored rivet does not function as a trade-mark.

EX PARTE STEVENS WALDEN, INC., 173 MS. D. 694, 92 USPQ 282, February 26, 1952.

Application was made for registration on the Principal Register of the act of 1946 of the letters "WW" enclosed in an ellipse as a trade-mark for socket wrenches. The Examiner of Trade-Marks refused registration in view of a prior registration, No. 104,112, for a mark consisting of the letter "W" enclosed in a diamond-shaped border, the goods disclosed in the registration including, among others, wrenches. *Assistant Commissioner Klinge* affirmed.

It was held that under the 1946 act it is sufficient in a case of this kind if the goods are similar or related and here the goods are such as to be identical in nature.

It was held that in view of the close similarity between the marks and the substantial identity of the goods, applicant is not entitled to register the mark disclosed in this application for the goods specified.

EX PARTE HEVI DUTY ELECTRIC COMPANY, 173 MS. D. 687, 92 USPQ 279, February 26, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing registration on the Supplemental Register of the Trade-Mark Act of 1946 of the notation "MULTIPLE UNIT" for box-type muffle electric furnaces on the ground that the words "MULTIPLE UNIT" are generically descriptive of the goods to which the mark is applied.

It was held that the evidence here submitted is not sufficient to show that the mark sought to be registered has acquired a secondary meaning.

It was held that applicant's mark generally denotes the very nature and type of electric furnace to which it is applied and as such is generically descriptive thereof.

It was held that applicant's 1920 act registration is of no significance in this connection.

EX PARTE SAN FRANCISCO BREWING CORPORATION, 13 MS. D. 692, 92 USPQ 286, February 28, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing registration of the slogan "A Truly Fine Pale Beer," used for beer, on the ground that the notation is nothing more than a puffing or laudatory expression which functions merely to convey information to purchasers regarding the quality of applicant's beer and is therefore incapable of distinguishing the applicant's goods in trade.

It was held that a slogan to be registrable upon the Supplemental Register under section 23 of the act of 1946 must be capable of distinguishing the applicant's goods.

In response to applicant's complaint that the Examiner failed to afford the applicant an opportunity to present evidence as to whether the notation sought to be registered is capable of distinguishing the applicant's goods, it was held that the Examiner has no authority to require the submission of such a showing nor is it incumbent upon the Examiner to invite the same, since the duty of presenting all the facts bearing upon the registration of a mark is upon the applicant, and he has no right to complain that the Examiner has failed to consider that which has not been presented, much less require of the applicant something of which he has no knowledge.

EX PARTE HERCULES FASTENERS, INC., 173 MS. D. 694, 92 USPQ 287, February 28, 1952.

Application was made, according to the statement filed with the application, for registration on the Principal Register in accordance with the act of 1946, of the mark "FASTIE" and design, for tube sealing machines which apply barrel fasteners, sometimes called eyelet fasteners, to seal the ends of flexible tubes. The notation "FASTIE" appears on the drawing in black letters superimposed upon a background comprising the ends of three tubular elements each having a fastener attached to the end thereof, all superimposed upon a fanciful black and white background of circular form. The Examiner of Trade-Marks refused registration in the absence of a disclaimer of the notation "FASTIE" which the Examiner considers to be descriptive, since the notation is the phonetic equivalent of "fast tie" which is descriptive of the characteristics of the goods in that the machines are designed to make fast ties in the preparation of artificial casings for sausage stuffing. *Assistant Commissioner Klinge* affirmed.

It was held that, assuming that registration is here sought on the Principal Register of the act of 1946 without recourse to the provisions of section 2(f) thereof (and the "Statement" in the application shows that it is), and assuming that the notation "FASTIE" is descriptive, then section 6 of that act would apply where, as here, the mark is otherwise registrable on the Principal Register.

Considering next the question of descriptiveness of the notation "FASTIE" it was held that the notation obviously connotes that which ties or fastens quickly, and it is entirely clear from applicant's advertising that such is the intended meaning of the notation since it is stated that applicant's machine does casing-end ties two or three times faster than human hands.

It was held that whether a mark consists of or comprises descriptive matter is of no particular concern in so far as the scope of section 2(f) is concerned.

It was held that since the application is not in proper form for registration of the mark under section 2(f) and was not filed under this section of the act and was not so considered by the Examiner, the affidavit filed in this case by applicant's president is not pertinent and need not be considered.

NOMA ELECTRIC CORPORATION *v.* ON-A-LITE CORPORATION, 173 MS. D. 700, — USPQ —, February 28, 1952, Opposition No. 29,262.

Application was made for registration of the trade-mark "ON-A-LITE" for decorative Christmas electric lighting sets and parts therefor, the word "LITE" being disclaimed apart from the mark as shown. Opposition was filed, based upon opposer's allegations of prior use and ownership of its registered mark "NOMA" and use of the notation "NOMA LITES" applied to Christmas electric lighting sets. The Examiner of Trade-Mark Interferences sustained the opposition. *Assistant Commissioner Klinge* affirmed.

In response to the applicant's contention that the use by the opposer of the notation "NOMA LITES" or "NOMA LIGHTS" in its advertising was not *trade-mark* use, it was held that it is not essential, in order for an opposer to prevail in proceedings of this character, that he establish trade-mark use of the mark on which he relies, it being sufficient if prior use thereof be shown *analogous* to trade-mark use.

It was held that the use which the opposer made of its mark "NOMA" and the notations "NOMA LITES" and "NOMA LIGHTS" is sufficient to establish a proper basis upon which the present proceeding may be brought.

It was held that the hyphens separating the words in applicant's mark do not necessarily insure the pronunciation which applicant intends for its mark, nor is there any assurance that purchasers would pronounce opposer's mark "NOMA" with such preciseness that, when combined with "LITE," a clear distinction between the marks of the parties would be maintained so as to avoid the likelihood of confusion as to the source of origin of the applicant's goods.

FULTON SMOKED FISH COMPANY *v.* THE GREAT ATLANTIC AND PACIFIC TEA COMPANY, 173 MS. D. 697, — USPQ —, February 28, 1952, Cancellation No. 5471.

Registration No. 504,121 was obtained for the trade-mark "YUKON CLUB" used for quick frozen fish, namely, deep sea scallops, cod steaks, and haddock fillets, the word "YUKON" being disclaimed apart from the mark as shown, including a representation of the head and shoulders of a male figure wearing a yachtman's cap, before which is a partial representation of a helm. Petition for cancellation was filed based upon petitioner's allegation of prior use of its mark "BARBEQUED YUKON COAST" applied to smoked salmon and ownership of Registration No. 289,761 for the same mark applied to the same goods. Respondent showed use of the mark "YUKON CLUB" on ginger ale prior to the earliest date of use by the petitioner of its mark "BARBEQUED YUKON COAST" on smoked salmon. The Examiner of Trade-Mark Interferences dismissed the petition for cancellation. *Assistant Commissioner Klinge* affirmed.

It was held that in the present case the question of likelihood of confusion should be considered in the light of the two marks as a whole, and when so considered, the marks neither look alike, sound alike, nor do they have similar meanings; the presence of the common word "YUKON" and the

fact that "COAST" and "CLUB" have the same initial letter is considered insufficient to lead to likelihood of confusion; petitioner's mark consists of three words while respondent's mark comprises but two, and the words "CLUB" and "COAST" are totally lacking in similarity but for the initial letter "C."

It was held that since the marks are so distinctly different, it is considered unnecessary for the purpose of this appeal to determine whether respondent should prevail by reason of the use of the mark "YUKON CLUB" on ginger ale prior to the date of use by the petitioner of its mark "BARBEQUED YUKON COAST" on smoked salmon.

TRADE-MARKS

OFFICIAL GAZETTE, MARCH 25, 1952

[VOL. 656. No. 4]

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.
As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 596,987. Dixie Fire Kindler Company, Sea Island, Ga., and Hollcong, Pa. Filed May 6, 1950.

DIXIE

For Packaged Wooden Fuel Chips.
Claims use since Oct. 2, 1946.

Ser. No. 602,280. Newport Industries, Inc., Pensacola, Fla. Filed Aug. 16, 1950.

NILOX

For Disproportionated Rosin.
Claims use since Mar. 17, 1949.

Ser. No. 607,352. Pedigreed Seed Co., New York, N. Y. Filed Dec. 6, 1950. (Sec. 2f.)

SWARTHMORE CHOICE

The word "Choice" is disclaimed.
For Grass Seed.
Claims use since 1939.

Ser. No. 612,727. Cal-Crop Seeds, Inc., San Francisco, Calif. Filed Apr. 17, 1951.

CC CAL-CROP

The word "Crop" is disclaimed.
For Field and Pasture Seeds.
Claims use since Sept. 1, 1949.

Ser. No. 612,835. Lewis Max Steele, doing business under the name and style of Indian Creek Farms, Indianapolis, Ind. Filed Apr. 18, 1951.



For Seeds—Namely, Wheat, Oats, Soy Beans, and Hybrid Corn.
Claims use since Mar. 20, 1951.

Ser. No. 615,622. Carya Hickory Industries, Stamford, Conn. Filed June 25, 1951.

Carya

For Hickory Disks for Imparting Hickory Wood Smoke Flavor to Meat, Fish, and Fowl.
Claims use since Nov. 13, 1950.

Ser. No. 616,618. Attapulgus Clay Company, Philadelphia, Pa. Filed July 18, 1951.

ATTASORB

Applicant claims ownership of Registration No. 421,948.
For Low Volatile Fuller's Earth.
Claims use since May 16, 1951.

Ser. No. 616,635. J. M. Huber Corporation, Red Bank, N. J., and New York, N. Y. Filed July 18, 1951.

HYDRAPEL

For Clay.
Claims use since June 18, 1951.

Ser. No. 616,703. Harlan-Wallins Coal Corporation, Verda, Ky. Filed July 20, 1951. (Sec. 2f.)

MARNE

For Coal.
Claims use since 1935.

Ser. No. 616,704. Harlan-Wallins Coal Corporation, Verda, Ky. Filed July 20, 1951. (Sec. 2f as to "Marne.")



The representation of the goods is disclaimed. The drawing is lined for red, no claim being made to color, and is stippled for shading purposes only. Applicant claims ownership of Registration No. 302,396.

For Coal.

Claims use since 1935.

CLASS 2

RECEPTACLES

Ser. No. 551,773. The Cussins and Fearn Company, Columbus, Ohio. Filed Mar. 12, 1948.

RELIANCE

For Enameled Kitchen Utensils—Namely, Pails and Garbage, and Refuse Cans; Aluminum Kitchen Utensils—Namely, Dinner Pails; Galvanized Metal Utensils—Namely, Pails, Ash Cans, Garbage Cans, Coal Hods, Baskets, Water Sprinkling Cans, Auxiliary Paint Buckets and Cans; and Vacuum Bottles.

Claims use since Apr. 1, 1945.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 575,915. Leathercraft, Inc., Chicago, Ill. Filed Mar. 23, 1949. (Sec. 2f—Additional evidence.)

Leathercraft

For Brief Cases Made of Leather and Simulated Leather.

Claims use since Dec. 18, 1943.

Ser. No. 598,359. Greatrex Ltd., New York, N. Y. Filed May 31, 1950.

GREATREX LTD. 1755 ENGLAND

The word "England" is disclaimed.

For Leather Goods—Namely, Billfolds, Wallets, Brief Cases, Handbags, Suitcases, Valises, and Saddles.

Claims use since 1755.

Ser. No. 603,899. George L. Soreghen, doing business as Diamond Whip Company, Chicago, Ill. Filed Sept. 22, 1950.

BLACKSNAKE

For Lariats.

Claims use since 1943.

Ser. No. 608,055. Butler's, Inc., Atlanta, Ga. Filed Dec. 26, 1950.

Southern Charm

For Ladies' Handbags.

Claims use since October 1942.

Ser. No. 612,313. Double Five Products, Inc., Washington, D. C. Filed Apr. 6, 1951.

DOUBLE FIVE

For Traveling and Utility Cases, Which Are Sold Empty.

Claims use since Mar. 15, 1951.

Ser. No. 612,624. Protex Products Company, Inc., New York, N. Y. Filed Apr. 13, 1951.

PAKLITE

For Bags for Carrying Clothing by Hand.

Claims use since May 1950.

Ser. No. 613,145. St. Thomas Inc., Gloversville, N. Y. Filed Apr. 25, 1951.

Saratoga Trio

Applicant claims ownership of Registrations Nos. 503,032 and 536,239.

For Pocketbooks and Billfolds.

Claims use since Apr. 2, 1951.

Ser. No. 613,198. Samuel F. Stewart, Miami, Fla. Filed Apr. 26, 1951.

panabag

For Ladies' Hand Bags of Straw and Leather Suede, and Straw and Cloth Construction.

Claims use since July 14, 1950.

Ser. No. 618,118. Llewellyn, Inc., New York, N. Y. Filed Aug. 27, 1951.

Lewsid Jewel by Llewellyn

For Ladies' Handbags.

Claims use since June 6, 1951.

Ser. No. 618,184. U. S. Handbag Corporation, New York, N. Y. Filed Aug. 28, 1951.

PATENTEX

For Ladies' Handbags, Wallets, Travelling Cases, and Beach Bags.

Claims use since Dec. 18, 1950.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 506,279. Pittsburgh Chemical Laboratory, Pittsburgh, Pa. Original filed, act of 1905, July 24, 1946; amended to application under act of 1946, Principal Register, May 17, 1951. (Sec. 2f.)

LUSTRETILE

For Powder Compound for Cleaning and Polishing Tile, Porcelain, and Enamelware.

Claims use since Dec. 17, 1945.

Ser. No. 573,244. Greene, Tweed & Co., North Wales, Pa. Filed Feb. 3, 1949.

TUSKO

For Polishing Leathers Generally Cut to Size for Use in Polishing Various Articles, Leather Polishing Wheels for Arbor Mounted High Speed Polishing, and Polishing Bobs Made of Leather.

Claims use since Jan. 14, 1949.

Ser. No. 573,245. Greene, Tweed & Co., North Wales, Pa. Filed Feb. 3, 1949.



For Polishing Leathers Generally Cut to Size for Use in Polishing Various Articles, Leather Polishing Wheels for Arbor Mounted High Speed Polishing, and Polishing Bobs Made of Leather.

Claims use since Jan. 14, 1949.

Ser. No. 573,246. Greene, Tweed & Co., North Wales, Pa. Filed Feb. 3, 1949.



For Polishing Leathers Generally Cut to Size for Use in Polishing Various Articles, Leather Polishing Wheels for Arbor Mounted High Speed Polishing, and Polishing Bobs Made of Leather.

Claims use since 1894.

Ser. No. 593,086. Rustaway Corporation, New York, N. Y., assignee of Rust-A-Way Company. Filed Feb. 25, 1950.

Metalure

For Metal Polish.

Claims use since Aug. 3, 1949.

Ser. No. 598,776. American Grease Stick Company, Muskegon Heights and Muskegon, Mich. Filed June 8, 1950.

GLOMITE

For Preparations Which Clean and Polish Automobiles.

Claims use since May 17, 1950.

Ser. No. 615,679. Black Panther Tool Company, Philadelphia, Pa. Filed June 26, 1951.

Black Panther

For Wax for Polishing Floors, Furniture, Woodwork, and Linoleum.

Claims use since June 14, 1951.

CLASS 5

ADHESIVES

Ser. No. 607,587. Goodenow-Morley Company, also doing business under the style name of Mid-West Associates, Oklahoma City, Okla. Filed Dec. 12, 1950.

Plyon

For Plastic Adhesive and Sealing Product Adapted for General Household Utility and Commercial Usage.

Claims use since May 1, 1950.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 578,122. American Anode Inc., Wilmington, Del., and Akron, Ohio. Filed May 3, 1949.

AMERAN

Applicant claims ownership of Registration No. 321,235.
For Liquid Dispersions of Plastic Materials for General Use in the Industrial Arts—Namely, Dispersions of Synthetic Polymeric Materials in Liquid Plasticizers Therefor, Both With and Without Added Compounding and Conditioning Ingredients.
Claims use since November 1948.

Ser. No. 598,509. Suds-All Company, Inc., Evanston, Ill. Filed June 2, 1950.

POLAR WET

The word "Wet" is disclaimed.
For Wetting Agent Used in Conjunction With Soap and Employed Primarily in Laundering.
Claims use since Mar. 1, 1950.

Ser. No. 600,814. Champion Textile Finishing Co., Chicago, Ill. Filed July 18, 1950.

RAIN-CHEK

For Liquid Composition for the Weather-Proofing of Fabrics and Leather.
Claims use since Apr. 28, 1950.

Ser. No. 604,609. Plastics Engineering Company, Sheboygan, Wis. Filed Aug. 17, 1950.

PLENCO

For Phenolic Molding Compounds.
Claims use since July 1, 1949.

Ser. No. 606,406. Advance Solvents & Chemical Corporation, New York, N. Y. Filed Nov. 15, 1950.



The drawing is lined for shading.
For Plastic Resinous Compositions; Synthetic Resins Sold to the Paint, Varnish and Rubber Industries; Synthetic Liquid Hydrocarbon Polymers, Mixtures of Polybutene Polymers and Hydrocarbon Waxes, Wetting and Foaming Agents, Emulsifiers, Softeners and Penetrating Agents; Materials Used as Plasticizers in the Paint and Protective Coating, Rubber, Plastics, Adhesive and Related Industries, Particularly for Vinyl Resins, Phenol-Aldehyde Resins, Alkyd Resins, Cellulose Derivatives, Acrylic Resins; Hydrocarbon and Other Polymers and Copolymers, Stabilizers, Particularly for Halogen-Containing and Vinyl Resins, Rubber Tackifiers.
Claims use since Nov. 15, 1949.

Ser. No. 613,182. Motor Chemical Corporation, Chicago, Ill., assignor to Leo Corporation, Chicago, Ill., a corporation of Illinois. Filed Apr. 26, 1951.

PD

Applicant claims ownership of Registration No. 410,679.
For Metal Organic and Inorganic Salts and Compositions Essentially Composed of These Adapted for Use as Combustion Catalysts With Hydrocarbon Fuels and Other Fuels.
Claims use since July 31, 1936.

Ser. No. 613,184. Motor Chemical Corporation, Chicago, Ill., assignor to Leo Corporation, Chicago, Ill., a corporation of Illinois. Filed Apr. 26, 1951.

Pee Dee

Applicant claims ownership of Registration No. 410,679.
For Metal Organic and Inorganic Salts and Compositions Essentially Composed of These Adapted for Use as Combustion Catalysts With Hydrocarbon Fuels and Other Fuels.
Claims use since September 1950.

Ser. No. 613,913. Hart Products Corporation, New York, N. Y. Filed May 16, 1951.

ALKAMERCE

For Water Insoluble Wetting Out Agent Used in Mercerizing Cotton Goods.
Claims use since Dec. 28, 1945.

Ser. No. 615,603. The Edwal Laboratories, Inc., Ringwood, Ill. Filed June 23, 1951.

DIAZOLITH

For Chemical Preparations Comprising Light Sensitive Materials for Use in Photographic Processes Wherein, Upon Exposure to Active Light, Said Materials Form Water-Resistant Coatings.
Claims use since May 31, 1950.

Ser. No. 617,228. Ciba Limited, Basel, Switzerland. Filed Aug. 2, 1951.

NEUTROLAN

Applicant claims ownership of Swiss Registration No. 134,885, dated Sept. 2, 1950.
For Coal-Tar Colors.

Ser. No. 617,271. Virginia Smelting Company, West Norfolk, Va. Filed Aug. 2, 1951.

PENNDRO

For Composition of Zinc Hydrosulphite and an Organic Acid.
Claims use since July 12, 1951.

Ser. No. 617,305. Monsanto Chemical Company, St. Louis, Mo. Filed Aug. 3, 1951.



The representation of an Eskimo child is fanciful. Applicant claims ownership of Registration No. 340,690.
For Anti-Freeze Solutions for the Cooling Systems of Internal Combustion Engines.
Claims use since July 24, 1951.

Ser. No. 617,357. Southern Gas Corporation, Atlanta, Ga. Filed Aug. 4, 1951.

Dixi-glo
LP GAS
"Friend of the Family"

The notations "L P Gas" and "Friend of the Family" are disclaimed.
For Liquified Petroleum Gas.
Claims use since Apr. 1, 1951.

Ser. No. 619,359. The Procter & Gamble Company, Cincinnati, Ohio. Filed Sept. 28, 1951.

PROZAN

For Mineral Oil Product for Processing Fibers and Fabrics.
Claims use since July 20, 1951.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 602,274. Millard Brothers Limited, London, England. Filed Aug. 16, 1950.



DIANA

The feminine figure is fanciful and represents the legendary huntress or mountain goddess known as Diana.
For Air-Guns.
Claims use since October 1948 in Great Britain; and since Oct. 26, 1949, in commerce between Great Britain and the United States.

Ser. No. 616,813. Brauer Bros. Mfg. Co., St. Louis, Mo. Filed July 23, 1951. (Sec. 2f.)

"SNAP-OFF"

For Holsters and Cartridge Carriers.
Claims use since November 1928.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 612,384. Godfrey L. Cabot, Inc., Boston, Mass. Filed Apr. 9, 1951.

MOGUL

Applicant claims ownership of Registrations Nos. 299,681 and 502,518.
For Carbon Black as a Pigment for the Manufacture of Inks.
Claims use since October 1947.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 565,355. Northern Rubber Products, Inc., Minneapolis, Minn. Filed Sept. 17, 1948.

NORTHERN

For Tile—Namely, Rubber Floor Tile.
Claims use since June 15, 1948.

Ser. No. 584,476. All-Weather Aluminum Awnings, Inc., Silver Hill, Md., and Washington, D. C. Filed Sept. 6, 1949.

AIR-LUX
"Comfort is not a Luxury"

The notation "Comfort Is Not a Luxury" is disclaimed.
For Rigid Metal Awnings.
Claims use since Apr. 6, 1949.

Ser. No. 589,243. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed Dec. 13, 1949.

ATLASTAVON

For Coating or Lining Material for Tanks, Said Material Comprising a Sheet Plastic Lining Based on Synthetic Rubber.
Claims use since Nov. 30, 1949.

Ser. No. 602,618. Longmont Brick & Tile Company, Longmont, Colo. Filed Aug. 23, 1950.

NUBRICSTONE

For Kiln Burned Clay Brick.
Claims use since Nov. 11, 1947.

Ser. No. 611,705. Elizabeth M. McCloskey, Forest Hills, N. Y. Filed Mar. 23, 1951.

Tropic Tile

The word "Tile" is disclaimed.
For Smooth-Finished, Colored Concrete Tile.
Claims use since Mar. 1, 1949.

Ser. No. 612,335. H. R. MacMillan Sales Ltd., Vancouver, British Columbia, Canada. Filed Apr. 6, 1951.

MONO·DOR

The word "Dor" is disclaimed. Applicant claims ownership of Canadian Registration No. N. S. 9623/35, dated June 20, 1938.
For Slab or Flush Doors.

Ser. No. 616,204. The Flintkote Company, New York, N. Y. Filed July 7, 1951.

"THE MONTICELLO"

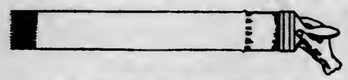
For Asbestos Cement Shingles and Sidings.
Claims use since June 13, 1951.

Ser. No. 616,294. Mautz Paint & Varnish Company, Madison, Wis. Filed July 10, 1951. (Sec. 2f.)

MAUTZ

Applicant claims ownership of Registration No. 288,413.
For Putty.
Claims use since 1922.

Ser. No. 616,295. Mautz Paint & Varnish Company, Madison, Wis. Filed July 10, 1951. (Sec. 2f.)



Applicant claims ownership of Registration No. 288,413.
For Putty.
Claims use since 1928.

Ser. No. 616,296. Mautz Paint & Varnish Company, Madison, Wis. Filed July 10, 1951.



For Putty.
Claims use since 1935.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 537,597. Leslie Co., Lyndhurst, N. J. Filed Oct. 11, 1947. (Sec. 2f.)

LESLIE

For Hand-Operated Valves, Whistle Valves, Pressure-Reducing Valves, Small-Flow Pressure-Reducing Valves, Differential Pressure-Reducing Valves, Self-Operating Pressure-Controlled Valves, Self-Cleaning Pipe Strainers, and Manually-Controlled Valves.
Claims use since Aug. 8, 1927.

Ser. No. 571,065. American Meter Company, New York, N. Y. Filed Dec. 24, 1948. (Sec. 2f.)

AMERICAN METER CO EST. 1836

The words "Meter Co., Est. 1836" and "Measurement Engineers" are disclaimed.
For Gas Pressure Regulators for Controlling the Flow and Pressure of Gas, Including Regulators of This Type Which Are Sometimes Called Gas Pressure Governors.
Claims use since 1930.

Ser. No. 586,322. The Snap-Trac Corporation, Bedford, Ohio. Filed Oct. 14, 1949.

SNAP-TRAC

The word "Snap" is disclaimed.
For Anti-Skid Traction Lugs and Chains, Bars, and the Like for Securing the Lugs to Resilient Tires and Wheels.
Claims use since May 9, 1949.

Ser. No. 602,259. Annette C. Hamill, Bethlehem, Pa. Filed Aug. 16, 1950.

LO-ROD
Magic Touch

For Adjustable Metal Tracks With Sliding Plates, for Window Frames, to Which Curtains, Drapes, and Shades Are Affixed.
Claims use since Jan. 8, 1949.

Ser. No. 612,354. Remington Arms Company, Inc., Bridgeport, Conn. Filed Apr. 6, 1951.



For Fastening Devices—Namely, Studs, Pins, and Bolts.
Claims use since Mar. 28, 1951.

Ser. No. 612,639. West Bend Aluminum Co., West Bend, Wis. Filed Apr. 13, 1951.

Hawthorn

For Metal Cooking Utensils of the Waterless Cooking Type—Namely, Sauce and Vegetable Pans, Covered Skillets, Dutch Ovens, Coffee Makers, Griddles, and Kettles.
Claims use since January 1946.

Ser. No. 616,036. Keystone Wire Cloth Company, Hanover, Pa. Filed July 3, 1951.

Keystone

For Wire Cloth of the Types Suitable for Window Screens.
Claims use since 1910.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 573,781. Latrobe Electric Steel Company, Latrobe, Pa. Filed Feb. 12, 1949.

VDC

For Die Steel.
Claims use since Nov. 15, 1944.

Ser. No. 596,013. The Carpenter Steel Company, Reading, Pa. Filed Apr. 13, 1950.

EXCELO

For Steel in the Form of Wire, Strips, Bars, Billets, and Other Shapes.
Claims use since 1922.

CLASS 15

OILS AND GREASES

Ser. No. 606,970. Decto Products Co., Salem, Mass. Filed Nov. 27, 1950.

DECTO
RUN-SMOOTH

The words "Run-Smooth" are disclaimed. Applicant claims ownership of Registration No. 444,115.
For Stick of Wax Composition Material for Furniture Drawers, Doors, and Window Shades To Prevent Wear of and To Smooth Binding Surfaces.
Claims use since Nov. 7, 1950.

Ser. No. 609,874. Lub-X Refining Corporation, Napoleon, Ohio. Filed Feb. 9, 1951.

LUB-X

Applicant claims ownership of Registration No. 279,970.
For Lubricating Oil.
Claims use since Jan. 6, 1930.

Ser. No. 615,790. The Pennzoil Company, Oil City, Pa. Filed June 27, 1951.

REEZOIL

For High Molecular Weight Hydrocarbon Extracted From Mineral Oil Residuum for Use as a Base for Motor Lubricating Oils, Lubricating Oils for Industrial Use, Gear Lubricants, and Lubricating Greases.
Claims use since May 16, 1951.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 541,066. Anabolic Food Products, Inc., Glendale, Calif. Filed Nov. 14, 1947. (Sec. 2f—Additional evidence.)

ANABOLIC

For Medicinal Preparations in Capsule Form, Containing Dried Vegetables or Vegetable Substances Combined With Dried Garlic for Reducing Intestinal Toxemia, Reduced Iron Useful in Correcting Iron Deficiency, Niacinamide Useful in Correcting Vitamin Deficiency, Dried Papaya Juice Useful as a Digestant, Kelp Useful in Supplying Iodine for Correcting Iodine Deficiency, Niacin and Other Vitamins Useful in Correcting Vitamin Deficiencies, and Bile Salts Useful for Correcting Bile Salts Deficiency or in Certain Liver Conditions.
Claims use since Jan. 25, 1926.

Ser. No. 573,895. Ridd Laboratories, Incorporated, Edmonds, Wash. Filed Feb. 15, 1949.

BORADYNE

For Borated Iodine Powder for Use as a Fungicide, Germicide, and Deodorant for Skin and Mucous Membranes, the Iodine Powder Having No Particular Function as a Deodorant Except as Incidental to Healing the Skin and Mucous Membranes.
Claims use since Dec. 1, 1948.

Ser. No. 582,273. Ciag Aktiengesellschaft, Schaffhausen, Switzerland. Filed July 21, 1949.

CILOPRINE

Applicant claims ownership of Swiss Registration No. 118,181, dated Nov. 21, 1946.

For Pharmaceutical Preparation for the Treatment of Otitis.

Ser. No. 587,882. The S. E. Massengill Company, Bristol, Tenn. Filed Nov. 16, 1949.

DASIN

For Medicinal Preparation Possessing Action Which Is Analgesic, Antipyretic, Diaphoretic, and Sedative in Effect. Dasin Reduces the Discomfortable Symptoms of Acute Respiratory Involvements and Aids in Shortening the Course of the Infection.

Claims use since May 20, 1942.

Ser. No. 589,029. The Lundbeck Corporation, Dover, Del. Filed Dec. 8, 1949.

UROLUCOSIL

For Sulphonamide Preparation in Powder Form or in Solution, That Is, a Water Potential Soluble Agent Used in the Treatment of Urinary Tract Infections.

Claims use since Sept. 1, 1949.

Ser. No. 592,114. Abbott Laboratories, North Chicago, Ill. Filed Feb. 8, 1950.

SULESTREX

For Estrogenic Preparation Intended for Oral Administration Only.

Claims use since Jan. 27, 1950.

Ser. No. 595,084. Northwest Poultry Tonics, Inc., Minneapolis, Minn. Filed Apr. 1, 1950.

WA-KA-TO-NA

For Conditioner and Tonic for Poultry and Animals (in Powder Form) and Drinking Water Antiseptic for Poultry Only (in Tablet and Powder Form).

Claims use since 1917.

Ser. No. 597,155. McNeil Laboratories, Incorporated, Philadelphia, Pa. Filed May 9, 1950.

ORESTRALYN

For Medicinal and Pharmaceutical Preparation Useful in the Treatment of Manifestations of Estrogen Deficiency.

Claims use since Feb. 6, 1950.

Ser. No. 598,036. Pharmaceutical Specialties, New York, N. Y. Filed May 24, 1950.

ENCYNEX

For Pharmaceutical Preparation Consisting of a Tablet for Use in the Treatment of Rheumatism and Rheumatoid-Arthritis.

Claims use since Jan. 15, 1950.

Ser. No. 602,254. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware. Filed Aug. 16, 1950.

EXALTOLIDE

Applicant claims ownership of Registration No. 270,793.

For Natural and Synthetic Essential Oils, Aromatic Chemicals From Natural or Other Sources, Used as a Flavoring Material or an Ingredient in Medicines and Pharmaceutical Preparations.

Claims use since Apr. 30, 1928.

Ser. No. 603,790. The Histamist Corporation, Chicago, Ill. Filed Sept. 20, 1950.

HISTAMIST

For Nasal Drops.

Claims use since Jan. 10, 1950.

Ser. No. 604,428. Foods Plus, Inc., New York, N. Y. Filed Oct. 4, 1950.

Cholinos

For Multiple Vitamin Preparations.

Claims use since March 1947.

Ser. No. 606,186. Wyeth Incorporated, Philadelphia, Pa. Filed Nov. 9, 1950.

PROLLYRIUM

For Medicinal Ophthalmic Lotions.

Claims use since Oct. 18, 1950.

Ser. No. 606,715. The Charles Marchand Company, New York, N. Y. Filed Nov. 21, 1950. (Sec. 2f.)

MARCHAND'S

Applicant claims ownership of Registrations Nos. 45,205, 393,144, and 539,617.

For Medicinal Hydrogen Peroxide.

Claims use since 1890.

Ser. No. 607,302. The Upjohn Company, Kalamazoo, Mich. Filed Dec. 5, 1950.

Mycitracin

Applicant claims ownership of Registration No. 434,963.

For Antibiotic Preparation for Use as a Decongestant and Antibacterial Agent.

Claims use since Sept. 8, 1950.

Ser. No. 607,696. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Dec. 15, 1950.

Nexdro

For Fungicidal Ointment.

Claims use since Nov. 27, 1950.

Ser. No. 607,697. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Dec. 15, 1950.

Montanol

For Streptomycin Ear and Nose Drops.

Claims use since Nov. 27, 1950.

Ser. No. 607,698. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Dec. 15, 1950.

Montedol

For Penicillin Ear and Nose Drops.

Claims use since Nov. 27, 1950.

Ser. No. 607,699. Bristol Laboratories Inc., New York and Syracuse, N. Y. Filed Dec. 15, 1950.

Montema

For Penicillin Ear and Nose Drops.

Claims use since Nov. 27, 1950.

Ser. No. 607,795. Commercial Solvents Corporation, New York, N. Y. Filed Dec. 18, 1950.

BACIFERM

For Ingredients or Supplements of Foods, Containing Bacitracin, for Addition to the Feed of Poultry, Hogs, and Other Non-Ruminant Livestock.

Claims use since Nov. 9, 1950.

Ser. No. 607,942. Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Filed Dec. 21, 1950.

NEURO—TRASENTINA

Applicant claims ownership of Swiss Registration No. 114,846, dated Feb. 27, 1946, and United States Registration No. 396,673.

For Sedative and Antispasmodic.

Ser. No. 608,034. Commercial Solvents Corporation, New York, N. Y. Filed Dec. 23, 1950.

DUOFERM

For Antibiotic Feed Supplement Containing Vitamin B_{12} and Bacitracin.

Claims use since Nov. 16, 1950.

Ser. No. 608,379. The Pharma-Craft Corporation, New York, N. Y. Filed Jan. 4, 1951.

Chad

Applicant claims ownership of Registration No. 431,045.

For Medicated Cream for the Treatment of Athlete's Foot.

Claims use since Apr. 12, 1949.

Ser. No. 608,735. Associated Concentrates Inc., New York and Woodside, N. Y. Filed Jan. 13, 1951.

ACLETIN

For Vitamin Composition in Capsule Form in a Soya Lecithin.

Claims use since May 1, 1945.

Ser. No. 609,066. Chapman H. Salmons, Missouri Branch, W. Va. Filed Dec. 15, 1950.

Salmons'



The word "Salmons" is disclaimed. The portrait is that of applicant. Applicant claims ownership of Registration No. 249,293.

For Liniment for Cuts, Bruises, Stiff Joints, Sprains, Swelling Rheumatism, Colic, Earache, Headache, Stiff Neck, Tonsilitis, Weak Kidneys, Weak Back, Sour Stomach, Itch, and Skin Irritations.

Claims use since 1907.

Ser. No. 609,835. Abbott Laboratories, North Chicago, Ill. Filed Feb. 9, 1951.

MINOTHYL

For Preparation for Use as an Analgesic and in Certain Cardiac Disturbances.

Claims use since Jan. 25, 1951.

Ser. No. 610,468. Schering Corporation, Bloomfield, N. J. Filed Feb. 23, 1951.

TRIMODAN

Applicant claims ownership of Registration No. 509,760.

For Antihistamine Preparation.

Claims use since Dec. 6, 1950.

Ser. No. 610,718. E. R. Squibb & Sons, New York, N. Y. Filed Mar. 1, 1951.

RUBRAFERATO

Applicant claims ownership of Registration No. 547,549.

For Antianemic Preparation.

Claims use since May 25, 1950.

Ser. No. 611,333. Barker, Moore & Mein Company, Philadelphia, Pa. Filed Mar. 15, 1951.

BAR-HO-VITE

For Swine Feed Supplement.

Claims use since Feb. 14, 1951.

Ser. No. 611,967. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Filed Mar. 29, 1951. (Sec. 2f.)

BORO-JEL

The fact that the trade-mark is always imprinted in white on a red background is indicated by the conventional lining for red.

For Medical Preparation—Namely, a Water Soluble Surgical Lubricant.

Claims use since Jan. 1, 1925.

Ser. No. 612,345. S. B. Penick & Company, New York, N. Y. Filed Apr. 6, 1951.

AQUESTROL

For Estrogenic Materials Particularly Water-Soluble, Conjugated Estrogenic Substances for Use in Conditions Associated With Estrogenic Deficiencies.

Claims use since Mar. 7, 1951.

Ser. No. 612,710. C. D. Smith Drug Company, St. Joseph, Mo. Filed Apr. 16, 1951.



The words "C. D. Smith Drug Co." are disclaimed.

For Medicines and Pharmaceutical Preparations and Ingredients of Medicines and Pharmaceutical Preparations—Namely, Talcum Powder, Carbon Bisulfate, Tobacco Dust, Carbon Tetrachloride, Whiting Spanish, Witch Hazel, White Lead in Oil, Citric Acid, Litharge, Copperas Powder, Zinc Sulfate (Technical), Blue Vitrol Copper Sulfate, Mineral Oil, Soda Silicate Solution, Cottonseed Oil, Sal Epsom, Oil Tar, Alum, Peroxide Hydrogen, Boric Acid, Methanol, Cream Tartar, Dobell Solution, Flaxseed, Distilled Water, Fuller's Earth, Rock Candy Syrup, Glauber Salts, Liquid Soap, Compound Licorice Powder, Amyl Acetate, Castile Soap Powder, Ammonium Chloride Granular Technical, Sodium Bicarbonate U. S. P., Fish Oil, Sodium Hyposulfite, Soda Phosphate Tribasic, Gelatine Sheet S. L., Sulphur Commercial, Acetone, Sulphur Flowers, Bensol Technical, Oxalic Acid, Potassium Permanganate, Paraffin Oil, Rochell Salts, Salt Peter, Sal Soda, Soda Ash, Castor Oil, Turpentine and Sassafras Bark.

Claims use since Jan. 4, 1951.

Ser. No. 616,368. Commercial Solvents Corporation, New York, N. Y. Filed July 12, 1951.

EXPANDEX

For Blood Plasma Substitute.

Claims use since June 21, 1951.

Ser. No. 616,455. Stanley Drug Products, Inc., Portland, Oreg. Filed July 13, 1951.

FEMEZE

For Preparation Used as a Relief for Painful Menstruation.

Claims use since June 27, 1951.

Ser. No. 616,644. Sandoz Chemical Works, Inc., New York, N. Y. Filed July 18, 1951.

FIORINAL

For Analgesic Preparation To Be Used for the Treatment of Headache.

Claims use since July 10, 1951.

Ser. No. 616,645. Sandoz Chemical Works, Inc., New York, N. Y. Filed July 18, 1951.

PLEXONAL

For Sedative and Hypnotic for Use Against Insomnia and Excitatory States.

Claims use since July 10, 1951.

CLASS 19

VEHICLES

Ser. No. 598,423. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed June 1, 1950.

E • Z • I

For Rear View Mirrors for Automobiles.

Claims use since July 1, 1940.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 576,229. The Salvajor Company, Kansas City, Mo. Filed Mar. 28, 1949.

WasteXit

The term "Waste" is disclaimed.

For Electric Motor Driven Commercial Garbage Grinding and Disposal Machine.

Claims use since Mar. 11, 1949.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 571,753. Sterling Machinery Corporation, Kansas City, Mo. Filed Jan. 6, 1949. (Sec. 2f.)



Applicant claims ownership of Registration No. 256,429.

For Power Hoists and Winches and Power Lawn Mowers.

Claims use since Oct. 1, 1928.

Ser. No. 582,690. International Salt Company, Scranton, Pa. Filed July 29, 1949.

STERLING

For Salt Dissolving Devices Comprised of a Tank, a Hopper for Admission of Salt, and Filtered Brine Outlet for Production of Brine for Use in Industry.

Claims use since Nov. 2, 1948.

Ser. No. 588,154. All Precision Engineering Limited, Newdigate, England. Filed Nov. 22, 1949.



Applicant claims ownership of British Registration No. 682,894, dated Oct. 3, 1949.

For Workholding Clamps.

Ser. No. 588,831. New Hermes, Inc., New York, N. Y. Filed Nov. 1, 1949.

ENGRAVOGRAPH

For Engraving Machines and Parts Therefor for Engraving on Metal, Plastic, or Like Materials.

Claims use since Aug. 17, 1949.

Ser. No. 592,817. Kermath Manufacturing Company, Detroit, Mich. Filed Feb. 21, 1950. (Sec. 2f.)

KERMATH

Applicant claims ownership of Registration No. 263,499.

For Explosive Engines, Non-Self-Measuring Pumps, Clutches, and Reverse Gears.

Claims use since Jan. 1, 1911.

Ser. No. 604,173. Abrasive Machine Tool Company, East Providence, R. I. Filed Sept. 29, 1950.

HYDRABRASIVE

For Power Operated Surface Grinders.

Claims use since Sept. 15, 1950.

Ser. No. 606,102. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa. Filed Nov. 8, 1950. (Sec. 2f as to "Westinghouse.")



Applicant claims ownership of Registrations Nos. 103,016, 103,017, and others.

For Mechanical Vacuum Pumps; Aircraft Engines; Gear Reduction Driving Units and Steam Turbines for Ship Propulsion Equipment; Steam and Gas Turbines; Auxiliary Apparatus for Condensers, Consisting of Air-Ejectors, Condensate-Pumps, Circulating Pumps, and Air Pumps; Steam Engines; Gas-Engines; Reduction Gears; Gear Units for Marine, Locomotive and Railway Propulsion; Pneumatic Conveyors; Marine Bearings, Such as Stern Tube Bearings and Pintle Bearings, Gears, Pulleys and Bearings Constructed of Fibrous Material With a Heat-Hardened Binder; Hydraulic Servo-Motors and Parts Therefor; Vacuum Cleaners; Compressors; Spray Water Mechanical Air Washers; Reel Drive Gears and Winding and Rewinding Machines.

Claims use since June 1, 1941.

Ser. No. 609,380. The Salvajor Co., Kansas City, Mo. Filed Jan. 29, 1951.

Salvajector

Applicant claims ownership of Registration No. 415,198.

For Unitary Apparatus Comprising a Dish Washing Machine Having the Property of Separating Garbage and Tableware and Electrically-Operated Garbage Grinding and Disposing Machine.

Claims use since Nov. 10, 1949.

Ser. No. 610,412. Comfort Equipment Company, Kansas City, Mo. Filed Feb. 23, 1951. (Sec. 2f.)

COMFORT

Applicant claims ownership of Registration No. 431,358.

For Tractor Cover, Tractor Umbrella, and Power-Operated Sprayer for General Farm Use.

Claims use since Oct. 14, 1944.

Ser. No. 612,567. Jerome Simer Company, Minneapolis, Minn. Filed Apr. 12, 1951.

"LIQUE-FLATOR"

For Power-Driven Compressor Units.
Claims use since Sept. 15, 1949.

Ser. No. 616,570. Root Brothers, Inc., Chicago, Ill. Filed July 16, 1951.

NOR CRAFT

For Pliers, Carpenter Pincers, Draw Shaves, Hammers, Bit Braces, Carpenter Planes.
Claims use since June 1, 1951.

Ser. No. 618,319. The Jacobs Manufacturing Company, Hartford, Conn. Filed Sept. 1, 1951. (Sec. 2f.)

JACOBS

Applicant claims ownership of Registration No. 405,993.
For Chucks for Use on Machine Tools, Hand Tools, Portable Power Tools, and Parts Thereof.
Claims use since Nov. 1, 1903.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 617,784. William L. Corbin, doing business under the assumed business name of Corbin's Optical Center, Portland, Oreg. Filed Aug. 17, 1951.

"Popularity"

For Eyeglasses.
Claims use since July 15, 1951.

Ser. No. 618,221. Wollensak Optical Company, Rochester, N. Y. Filed Aug. 29, 1951.

AMATON

Applicant claims ownership of Registration No. 85,306.
For Photographic Lenses.
Claims use since Aug. 23, 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 610,044. The George W. Borg Corporation, Chicago, Ill., and Delavan, Wis. Filed Feb. 14, 1951. (Sec. 2f.)

BORG

For Automobile Clocks.
Claims use since Mar. 1, 1934.

Ser. No. 615,621. Blancard & Co., Inc., New York, N. Y. Filed June 25, 1951.

CINDERELLA

Applicant claims ownership of Registration No. 251,816.
For Watches.
Claims use since May 25, 1951.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 599,379. Lord Silver, Inc., Brooklyn, N. Y. Filed June 19, 1950.

Lord Silver

The word "Silver" is disclaimed.
For Candy Dishes, Compotes, Mayonnaise Dishes, Console Dishes, Candlesticks, Candelabras, Bon Bon Dishes, Bread and Butter Plates, and Sandwich Plates, All of the Foregoing Being Made of Sterling Silver.
Claims use since August 1945.

Ser. No. 604,284. Towle Manufacturing Company, Newburyport, Mass. Filed Sept. 30, 1950.

CONTOUR

For Sterling Silver Flatware.
Claims use since Aug. 23, 1950.

Ser. No. 615,132. National Silver Company, New York, N. Y. Filed June 13, 1951.

PORTRAIT OF A ROSE

The word "Rose" is disclaimed. Applicant claims ownership of Registration No. 538,353.
For Sterling Silver Flatware and Hollowware.
Claims use since Apr. 2, 1951.

Ser. No. 615,208. Beta Gamma Sigma Fraternity, Cincinnati, Ohio. Filed June 15, 1951.

B
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Σ

For Fraternity Pins, Finger Rings, Buttons, and Badges, Made in Whole or Part of Precious Metal.
Claims use since 1913.

Ser. No. 615,383. Gorham Manufacturing Company, Providence, R. I. Filed June 19, 1951.

RONDO

For Sterling Silver Flatware, Hollowware, and Table Cutlery.
Claims use since June 4, 1951.

Ser. No. 615,772. Gorham Manufacturing Company, Providence, R. I. Filed June 27, 1951. (Sec. 2f.)

MELROSE

Applicant claims ownership of Registration No. 431,795.
For Sterling Silver Flatware, Hollowware, and Table Cutlery.
Claims use since May 27, 1946.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 577,234. Star Brush Manufacturing Co., Inc., Boston, Mass. Filed Apr. 15, 1949.



Applicant claims ownership of Registrations Nos. 101,536 and 241,739.
For Brushes — Namely, Wall Brushes, Scrubbing Brushes, Clothes-Brushes, Paint and Whitewash Brushes.
Claims use since 1881.

Ser. No. 604,272. The Simoniz Company, Chicago, Ill. Filed Sept. 30, 1950.

Homotex

For Washing, Polishing, Cleaning, and Dusting Cloths.
Claims use since June 29, 1949.

Ser. No. 613,293. Bernard Goldberg, New York, N. Y. Filed Apr. 28, 1951.

BeGe

For Brushes and Puffs—Namely, Powder Puffs, and Tooth, Nail, Hand, Hair, Face, Shaving, Lipstick, Mascara, Dental Plate, Scrub Brushes, and Paint Brushes.
Claims use since Mar. 29, 1950.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 603,539. Mitteldorfer Straus, Inc., New York, N. Y. Filed Sept. 14, 1950.

P. V.

Applicant claims ownership of Registration No. 259,856.
For Pottery—i. e., Earthenware Plates and Dishes, China Candy Dishes, and Porcelain Plates and Dishes.
Claims use since Feb. 15, 1928.

Ser. No. 608,163. Home Decorators, Inc., Newark, N. Y. Filed Dec. 28, 1950.

ARCADIAN

For Chinaware—Namely, Dishes, Plates, Cups, and Saucers.
Claims use since Oct. 25, 1950.

Ser. No. 615,307. Thomas P. Duncan, Jr., doing business as Silhouette, Newport News, Va. Filed June 18, 1951.

SILHOUETTE

For Vases, Bowls, and Goblets Made of Earthenware and Porcelain.
Claims use since Aug. 2, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 595,432. Water Treaters, Inc., St. Paul, Minn., assignor to Automatic Pump & Softener Corporation, Rockford, Ill. Filed Apr. 7, 1950.

SOLO-MATIC

For Water Softeners of the Zeolite Type.
Claims use since Jan. 1, 1949.

Ser. No. 611,745. The Trane Company, La Crosse, Wis. Filed Mar. 24, 1951.

CENTRAVAC

For Refrigeration Machines and Parts Thereof — Namely, Compressors, Condensers, Evaporators, and Purge Units of Refrigeration Machines.
Claims use since Nov. 21, 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 616,274. Boston Table Mfg. Co., Inc., Boston, Mass. Filed July 10, 1951.

DURA QUEEN

For Dinette Sets—Namely, a Table and a Certain Number of Chairs.
Claims use since May 22, 1950.

Ser. No. 617,157. Mueller Furniture Co., Grand Rapids, Mich. Filed July 31, 1951.

Suburban

For Household Groups of Furniture of Wood Construction—Namely, Davenports, Sofas, Love Seats, Chairs, Tables, Chests, Cabinets, and Beds.
Claims use since May 1951.

CLASS 33

GLASSWARE

Ser. No. 531,169. T. C. Wheaton Co., Millville, N. J. Filed Aug. 12, 1947.

TRONEX

The lining used in the drawing indicates shading only.
Applicant claims ownership of Registrations Nos. 406,334 and 409,920.
For Glassware—Namely, Glass Bottles and Cooking Ware.
Claims use since Sept. 1, 1943.

Ser. No. 538,739. Salescorporation of Bohemian Sheet Glass Factories Ltd., Prague, Czechoslovakia. Filed June 8, 1948.

VITREA

Applicant claims ownership of Czechoslovakian Registration No. 93,967, dated Jan. 30, 1947.
For Sheet Glass of All Kinds.

Ser. No. 615,309. Thomas P. Duncan, Jr., doing business as Silhouette, Newport News, Va. Filed June 18, 1951.

SILHOUETTE

For Vases, Bowls, and Goblets Made of Glass.
Claims use since Aug. 2, 1950.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 567,320. International Sales Company, San Francisco, Calif. Filed Oct. 23, 1948. (Sec. 2f.)

HOMHEATER

The word "Heater" is disclaimed.
For Gas Furnaces.
Claims use since 1925.

Ser. No. 583,676. Ceco Steel Products Corporation, Chicago, Ill. Filed Aug. 19, 1949.

CECO

Applicant claims ownership of Registrations Nos. 118,162, 405,471, and 408,908.
For Metal Ventilators for Attic and Roof Use.
Claims use since July 1946.

Ser. No. 616,819. Hardwick Stove Company, Inc., Cleveland, Tenn. Filed July 23, 1951. (Sec. 2f as to "Hardwick.")

HARDWICK EconoMatic

For Gas Cooking Ranges for Domestic Use.
Claims use since June 21, 1951, on the mark as shown; and since 1879 on the word "Hardwick."

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 592,245. The Armstrong Rubber Company, West Haven, Conn. Filed Feb. 10, 1950.



For Pneumatic Tire Casings.
Claims use since July 13, 1946.

Ser. No. 597,256. The Dayton Rubber Company, Dayton, Ohio. Filed May 11, 1950.

MULTI-MILE

For Vehicle Tires.
Claims use since August 1935.

Ser. No. 609,920. The Flexible Tubing Corporation, Guilford, Conn. Filed Feb. 10, 1951.

FLEXFLYTE

For Flexible Tubing Made of Plastic-Coated Fabric Reinforced With Spirally-Wound Wire or Cord or Both.
Claims use since Jan. 11, 1951.

Ser. No. 618,851. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed Sept. 15, 1951.

FIESTA

For Garden Hose.
Claims use since Sept. 11, 1950.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 585,457. Powell Instrument Company, Port Chester, N. Y. Filed Sept. 28, 1949.

ORKON

For Woodwind Musical Instrument in the Nature of and Having Some of the Characteristics and Advantages of a Clarinet, a Flute, an Oboe, a Saxophone, and Like Wind Musical Instruments, Including a Chimney-Keyed Chromatic Fipple-Flute.
Claims use since July 30, 1949.

Ser. No. 603,308. Reuge et Cie., Ste-Croix, Switzerland. Filed Sept. 8, 1950. (Sec. 2f.)

REUGE

Applicant claims ownership of Swiss Registration No. 129,903, dated July 26, 1949.
For Music Boxes and Musical Movements Therefor.
Claims use since 1910 in Switzerland; and since 1923 in commerce between foreign nations and the United States.

CLASS 37

PAPER AND STATIONERY

Ser. No. 615,437. Bienfang Products Corporation, Metuchen, N. J. Filed June 20, 1951.

BIENFANG master ILLUSTRATION BOARD

The words "Bienfang Illustration Board" are disclaimed.
For Paper Illustration Board.
Claims use since June 1, 1951.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 581,350. The Pennzoil Company, Oil City, Pa. Filed June 30, 1949.

KONTOX PENNZOIL SYSTEM

The word "System" is disclaimed.
For Sundry Mailing Pieces To Be Used by Dealers, Jobbers and Distributors in Direct-By-Mail Advertising—Namely, Advertising Post Cards, Other Advertising Cards, Leaflets and Pamphlets, All Sold as Such.
Claims use since Nov. 1, 1938.

Ser. No. 589,985. Perma Plaque Corporation, Los Angeles and Hollywood, Calif. Filed Dec. 27, 1949.

PermaPlaque

The word "Plaque" is disclaimed.
For Photographs, Pictures and Other Pictorial or Printed Matter Mounted on Wooden Backs and Covered With Laminated Plastic Coating.
Claims use since July 1, 1948.

Ser. No. 612,928. Pacific Hotel Publications, Inc., Los Angeles, Calif. Filed Apr. 20, 1951.

GUEST INFORMANT

For Publication Containing Information of Interest to Tourists, Issued From Time to Time, to Hotels, Transportation Agencies, and the Like.
Claims use since Dec. 1, 1939.

Ser. No. 616,722. Robert S. McCord, North Little Rock, Ark. Filed July 20, 1951.

SPARKS FROM THE GRINDSTONE MAG

For Newspaper Column.
Claims use since Sept. 17, 1948.

Ser. No. 617,087. Libbey-Owens-Ford Glass Company, Toledo, Ohio. Filed July 28, 1951.

THE PLASKON MAGAZINE

The word "Magazine" is disclaimed.
For Magazine.
Claims use since Sept. 15, 1948.

Ser. No. 617,341. Matt Curzon, New York, N. Y. Filed Aug. 4, 1951.

PIXIE PUZZLE ADVENTURES

The word "Puzzle" is disclaimed.
For Comic Strip Published Periodically.
Claims use since May 2, 1948.

Ser. No. 618,148. Brabender Corporation, Rochelle Park, N. J. Filed Aug. 28, 1951.

EXTENSOGRAM

For Charts Showing the Viscosity, the Plasticity, the Extensibility, and the Resistance of Materials.
Claims use since May 20, 1937.

Ser. No. 618,496. The Hearst Corporation, New York, N. Y. Filed Sept. 7, 1951. (Sec. 2f.)

the Woman Editor

Applicant claims ownership of Registration No. 433,839.
For Magazine Published Monthly.
Claims use since Apr. 15, 1948.

Ser. No. 618,602. Charles Shepard, Rochester, N. Y. Filed Sept. 10, 1951.

GENTRY

For Magazine.
Claims use since Sept. 8, 1951.

CLASS 39

CLOTHING

Ser. No. 456,929. Juliette Frocks, Inc., Chicago, Ill., assignee of Sam Rothbart, doing business as Juliette Frocks. Original filed, act of 1905, Nov. 19, 1942; amended to application under act of 1946, Principal Register, Sept. 8, 1949.

MADEMOISELLE Juliette

The word "Mademoiselle" is disclaimed.
For Ladies' Dresses.
Claims use since Jan. 1, 1938, as to the mark shown; and since Sept. 1, 1937, as to "Juliette."

Ser. No. 547,446. Haggar Company, Dallas, Tex. Filed Jan. 19, 1948. (Sec. 2f.)

STYLE TREND

Applicant claims ownership of Registration No. 393,259.
For Men's and Boys' Trousers, Riding Breeches, Sport Shirts, Slack Suits, Sport Jackets, and Sweaters.
Claims use since Nov. 25, 1940.

Ser. No. 563,098. Archer Rubber Company, Milford, Mass. Filed Sept. 14, 1948. (Sec. 2f.)

ArcoVent

For Rubber or Rubberized Raincoats.
Claims use since December 1942.

Ser. No. 578,289. Schloss Bros. & Co., Inc., Baltimore, Md. Filed May 3, 1949.

Gold Ribbon Group

For Men's and Boys' Suits, Topcoats, Overcoats.
Claims use since Mar. 23, 1949.

Ser. No. 592,199. Warren H. Fake, Ephrata, Pa. Filed Feb. 9, 1950.

DUTCHMAID

Applicant claims ownership of Registration No. 298,267.
For Men's, Women's, and Children's Underwear, Pajamas, Robes, and Housecoats, Outer Sport Jackets; Women's and Girls' Slips, Nightgowns, Brassières, Aprons, Bedjackets, Sweaters, Blouses, Hosiery, and Gloves; Men's and Boys' Vests, Negligee Shirts, and Sport Shirts; and Children's Shoes and Overalls.
Claims use since May 28, 1932.

Ser. No. 596,881. Stone Manufacturing Co., Inc., Greenville, S. C. Filed May 4, 1950.

Salliforth

For Ladies' Slips and Underwear; Infants' Slips and Underwear; Children's Slips, Underwear, Sun Suits, Sun Shorts, Outer Shirts, Aprons, Creepers, Diapers, Sun Shorts and Brassière Combination Garments, Pedal Pushers, and Water Repellant Jackets; and Men's Underwear.
Claims use since Apr. 5, 1950.

Ser. No. 597,157. Napper Company, Incorporated, Winnetka, Ill. Filed May 9, 1950.



For Baby's Terry Cloth Play Garment Set.
Claims use since July 11, 1949.

Ser. No. 604,885. The Tailored Woman, Inc., New York, N. Y. Filed Sept. 12, 1950. (Sec. 2f—Additional evidence.)

Tailored Woman

For Women's and Misses' Wearing Apparel—Namely, Dresses, Coats, Fur Coats, Fur Scarves, Fur Jackets, Fur Stoles, Fur Muffs, Suits, Wraps, Outer Skirts, Jackets, Blouses and Shirtwaists, Hats, Sweaters, Hosiery, Scarves, Collars, Neckties, Neckerchiefs, Handkerchiefs, Bathing Suits, Beach Robes, Halters, Bathing Caps, Playsuits, Slacks, Shorts, Outer Shorts, Negligees, Pajamas, Nightgowns, Slips, Undershirts, Petticoats, Corsets, Girdles, Panties, Drawers, Step-ins, Brassières, Chemises, Riding Jackets, Riding Trousers, Jodhpurs, Ski Suits, Ski Pants, Raincoats, Gloves Made of Leather or Fabric or a Combination Thereof, Shoes and Slippers and Mules Made of Canvas, Leather, Fabric, Rubber, and Combinations Thereof.
Claims use since Sept. 28, 1919.

Ser. No. 605,746. The Joseph & Feiss Co., Cleveland, Ohio. Filed Nov. 1, 1950.

AERLON

For Men's Suits.
Claims use since Aug. 17, 1950.

Ser. No. 606,143. Hubbard Pants Company, Inc., Bremen, Ga. Filed Nov. 9, 1950. (Sec. 2f.)

Hubbard

Applicant claims ownership of Registration No. 432,200.
For Men's and Boys' Trousers.
Claims use since January 1936.

Ser. No. 606,702. Draper Brothers Company, Canton, Mass. Filed Nov. 21, 1950.

Alparka - Draper Warmer

For Hooded Ski Jacket, Having a Nylon Shell and Alpaca Pile Lining.
Claims use since Aug. 18, 1950.

Ser. No. 606,858. Day's Tailor-D Clothing, Inc., Tacoma, Wash. Filed Nov. 24, 1950. (Sec. 2f.)

Day's

Applicant claims ownership of Registrations Nos. 249,724, 120,907, 341,773, and 307,132.
For Trousers, Suits, Knickers, Breeches, and Industrial Uniforms for Men and Boys.
Claims use since Dec. 6, 1916.

Ser. No. 608,949. Henry Pollak, Inc., New York, N. Y. Filed Jan. 18, 1951.

MELANGE

For Bodies for Women's and Girls' Hats.
Claims use since Oct. 17, 1950.

Ser. No. 609,708. Gerhard Wiener, New York, N. Y. Filed Feb. 6, 1951.

FLASHREADY

For Protective Clothing Against Fire and Heat, Flash and Radiation of Atomic Attacks—Namely, Hoods, Head-Guards, Face-Guards, Overalls, Coveralls, Fabric Gloves, Mittens.
Claims use since Sept. 25, 1950.

Ser. No. 612,921. Knothe Brothers Co. Inc., New York, N. Y. Filed Apr. 20, 1951.

BELT-MATE

The word "Belt" is disclaimed.
For Men's and Boys' Leather Belts.
Claims use since Apr. 5, 1951.

Ser. No. 615,843. Ruth Merzon Fifth Avenue, Inc., New York, N. Y. Filed June 28, 1951. (Sec. 2f.)

CURVES 2-U

For Brassières, Bathing Suits, and Slips for Women and Girls.
Claims use since Dec. 1, 1941.

Ser. No. 616,426. Richard H. Harms, doing business as Harms of California Glove Company, San Francisco, Calif. Filed July 13, 1951.

"Flirtie"

For Misses' and Ladies' Fabric Gloves.
Claims use since May 11, 1951.

Ser. No. 617,098. Spiegel, Inc., Chicago, Ill. Filed July 28, 1951.

Sally

Applicant claims ownership of Registrations Nos. 281,661 and 186,446.
For Women's, Misses', and Children's Clothing and Accessories — Namely, Slips, Pajamas, Dressing Gowns, Housecoats, Panties, Dresses, Jackets, Suits, Blouses, Outershirts, Skirts, Jumpers, Sweaters, Brassières, and Coats.
Claims use since Apr. 24, 1926.

Ser. No. 617,243. Gemsco, Inc., New York, N. Y. Filed Aug. 2, 1951.

GEMRAY

For Web Belts for Personal Wear.
Claims use since June 1, 1951.

Ser. No. 617,589. Reliance Manufacturing Company, Chicago, Ill. Filed Aug. 11, 1951.

Rocket Ranger

For Boys' Pajamas, Shirts, Pants, Caps, and Belts.
Claims use since July 23, 1951.

Ser. No. 617,806. Louis Meyers & Son, Inc., New York, N. Y. Filed Aug. 17, 1951. (Sec. 2f.)

MEYERS
LYKA-MOKA

Applicant claims ownership of Registration No. 168,279.
For Fabric Gloves for Men, Women, and Children.
Claims use since Aug. 6, 1921.

Ser. No. 617,964. Lilyette Brassiere Co. Inc., New York, N. Y. Filed Aug. 22, 1951.

fulfillment

For Brassières.
Claims use since Aug. 2, 1948.

Ser. No. 618,170. Daniel Levitt, New York, N. Y. Filed Aug. 28, 1951.

GAYFLEX

For Ladies' and Misses' Girdles, Foundation Garments, Garter Belts, and Brassières.
Claims use since May 1, 1951.

CLASS 39

CLOTHING

Ser. No. 456,929. Juliette Frocks, Inc., Chicago, Ill., assignee of Sam Rothbart, doing business as Juliette Frocks. Original filed, act of 1905, Nov. 19, 1942; amended to application under act of 1946, Principal Register, Sept. 8, 1949.

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Claims use since Nov. 25, 1940.

Ser. No. 565,098. Archer Rubber Company, Milford, Mass. Filed Sept. 14, 1948. (Sec. 2f.)

ArcoVent

For Rubber or Rubberized Raincoats.
Claims use since December 1942.

Ser. No. 578,289. Schloss Bros. & Co., Inc., Baltimore, Md. Filed May 5, 1949.

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Claims use since July 11, 1949.

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For Women's and Misses' Wearing Apparel—Namely, Dresses, Coats, Fur Coats, Fur Scarves, Fur Jackets, Fur Stoles, Fur Muffs, Suits, Wraps, Outer Skirts, Jackets, Blouses and Shirtwaists, Hats, Sweaters, Hosiery, Scarves, Collars, Neckties, Neckerchiefs, Handkerchiefs, Bathing Suits, Beach Robes, Halters, Bathing Caps, Playsuits, Slacks, Shorts, Outer Shorts, Negligees, Pajamas, Nightgowns, Slips, Undershirts, Petticoats, Corsets, Girdles, Panties, Drawers, Step-ins, Brassières, Chemises, Riding Jackets, Riding Trousers, Jodhpurs, Ski Suits, Ski Pants, Raincoats, Gloves Made of Leather or Fabric or a Combination Thereof, Shoes and Slippers and Mules Made of Canvas, Leather, Fabric, Rubber, and Combinations Thereof.
Claims use since Sept. 28, 1919.

Ser. No. 605,746. The Joseph & Feiss Co., Cleveland, Ohio. Filed Nov. 1, 1950.

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Claims use since Dec. 6, 1916.

Ser. No. 608,949. Henry Pollak, Inc., New York, N. Y. Filed Jan. 18, 1951.

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Ser. No. 609,708. Gerhard Wiener, New York, N. Y. Filed Feb. 6, 1951.

FLASHREADY

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Claims use since Sept. 25, 1950.

Ser. No. 612,921. Knothe Brothers Co. Inc., New York, N. Y. Filed Apr. 20, 1951.

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Ser. No. 615,843. Ruth Merzon Fifth Avenue, Inc., New York, N. Y. Filed June 28, 1951. (Sec. 2f.)

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Ser. No. 616,426. Richard H. Harms, doing business as Harms of California Glove Company, San Francisco, Calif. Filed July 13, 1951.

"Flirtie"

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Claims use since May 11, 1951.

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Sally

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For Women's, Misses', and Children's Clothing and Accessories — Namely, Slips, Pajamas, Dressing Gowns, Housecoats, Panties, Dresses, Jackets, Suits, Blouses, Outershirts, Skirts, Jumpers, Sweaters, Brassières, and Coats.
Claims use since Apr. 24, 1926.

Ser. No. 617,243. Gemsco, Inc., New York, N. Y. Filed Aug. 2, 1951.

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Claims use since June 1, 1951.

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Rocket Ranger

For Boys' Pajamas, Shirts, Pants, Caps, and Belts.
Claims use since July 23, 1951.

Ser. No. 617,806. Louis Meyers & Son, Inc., New York, N. Y. Filed Aug. 17, 1951. (Sec. 2f.)

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Ser. No. 618,170. Daniel Levitt, New York, N. Y. Filed Aug. 28, 1951.

GAYFLEX

For Ladies' and Misses' Girdles, Foundation Garments, Garter Belts, and Brassières.
Claims use since May 1, 1951.

Ser. No. 618,268. Crown Togs Sportswear Co., New York, N. Y. Filed July 19, 1951.

Tropicoat

For Men's, Boys', and Children's Outer Garments Consisting of Coats, Sport Shirts, and Lounging and Sport Jackets.
Claims use since May 19, 1947.

Ser. No. 618,282. Atlantic Clothing Co., Inc., New York, N. Y. Filed Aug. 31, 1951.

BAYCHESTER

For Men's and Boys' Suits, Topcoats, Overcoats, Slacks, and Pants.
Claims use since Aug. 1, 1951.

Ser. No. 618,291. Edmont Manufacturing Company, Coshocton, Ohio. Filed Aug. 31, 1951.

Juleps

For Household and Work Gloves Made of Rubber, Plastic, or Rubber-Coated or Plastic-Coated Fabric.
Claims use since July 26, 1951.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 615,704. Hairnet Corporation of America, New York, N. Y. Filed June 26, 1951.

HAIR-TRIX

The word "Hair" is disclaimed.
For Hair Roll Foundations.
Claims use since May 15, 1951.

Ser. No. 618,265. S. H. Kress and Company, New York, N. Y. Filed July 20, 1951.

BONITA

Applicant claims ownership of Registrations Nos. 289,937, 289,938, and others.
For Buttons (Pearl and Fancy Not Made of Precious Metal), Needles for Hand Use, Snap Fasteners, Combs of All Kinds Not Made of Precious Metal, All Kinds of Hairpins Not Made of Precious Metal, Bobby Pins or Clasps in Metal or Celluloid, Dress Shields, Bias Seam Tapes, Narrow Elastics, Common Pins and Safety Pins Not Made of Precious Metal.
Claims use since May 15, 1931.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 551,689. Burlington Mills Corporation, Greensboro, N. C. Filed Mar. 11, 1948.

CONCORDIA

Applicant claims ownership of Registrations Nos. 224,740, 418,028, 503,497, and 512,797.
For Piece Goods of Synthetic Fibers.
Claims use since Dec. 23, 1947, as shown; and since June 10, 1926, as to the word "Concordia."

Ser. No. 610,503. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Feb. 24, 1951.

COHAMA

Applicant claims ownership of Registrations Nos. 334,050, 415,956, and others.
For Piece Goods of Rayon, Nylon, and/or Wool, or Combinations Thereof.
Claims use since 1936.

Ser. No. 620,679. Miron Mills, Inc., Clinton, Mass. Filed Oct. 30, 1951.

MIRSEC

For Wool Fabrics in the Piece.
Claims use since Aug. 31, 1951.

Ser. No. 620,680. Miron Mills, Inc., Clinton, Mass. Filed Oct. 30, 1951.

MITAFFA

For Wool Fabrics in the Piece.
Claims use since Aug. 31, 1951.

Ser. No. 620,762. W. P. Willis & Co., Inc., New York, N. Y. Filed Oct. 31, 1951.

WILFLAIRE

For Worsted Suitings in the Piece and Cut Lengths.
Claims use since Sept. 20, 1951.

CLASS 43

THREAD AND YARN

Ser. No. 608,129. Sellers Mfg. Co., Saxapahaw, N. C. Filed Dec. 27, 1950.

Nylile

For Yarn.
Claims use since February 1950.

Ser. No. 618,098. Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Filed Aug. 25, 1951. (Sec. 2f.)

Carroll HOUSE

Applicant claims ownership of Registration No. 503,304.
For Knitting Yarns of Wool and Worsted.
Claims use since Aug. 23, 1946.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 570,318. The Pyramid Rubber Company, Ravenna, Ohio. Filed Dec. 10, 1948. (Sec. 2f.)

EVENFLO

Applicant claims ownership of Registrations Nos. 322,650 and 349,434.
For Nursers Comprising Nipples, Nipple Retaining Caps, Sealing Discs, and Nursing Bottles; and for Separate Nursing Bottles.
Claims use since 1934 in a horizontal form; and since 1936 in the form shown.

Ser. No. 615,135. Max Rosenstein, doing business as American Ossacryl Company, New York, N. Y. Filed June 13, 1951.

OSSACRYL

For Prostheses—Namely, Artificial Femoral Heads.
Claims use since Dec. 15, 1948.

Ser. No. 616,279. Davis & Geck, Inc., Brooklyn, N. Y. Filed July 10, 1951.

Emergiset

For Sterile Surgical Suture Set.
Claims use since June 7, 1951.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 608,995. Walt Marshall, La Crosse, Wis. Filed Jan. 19, 1951.

Walt's

For Non-Alcoholic Maltless Soft Drinks.
Claims use since December 1944.

Ser. No. 616,567. The Multiple Breaker Company, Malden, Mass. Filed July 16, 1951.

LIFE TIME

For Canned Drinking Water.
Claims use since Oct. 16, 1947.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 529,618. Farley Manufacturing Company, Skokie, Ill. Filed July 26, 1947. (Sec. 2f as to the word "Farley's.")

Farley's Creamy Mint CUBES

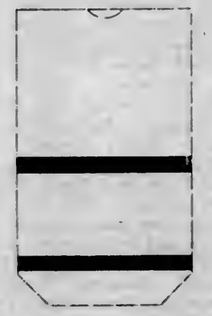
The words "Creamy Mint Cubes" are disclaimed.
For Candies in the Form of Cubes.
Claims use since August 1943 as shown; and since 1909 as to "Farley's."

Ser. No. 549,878. A. Boake, Roberts & Company Limited, London, England. Filed Feb. 17, 1948.

AROMEX

Applicant claims ownership of British Registration No. 553,220, dated Aug. 10, 1934.
For Concentrated Powdered Flavourings in Which the Flavouring Part Consists Mainly of a Mixture of Essential Oils, Esters, Aldehydes, Ketones, and Fruit Juices, for Use in the Manufacture of Cereal Preparations, Pudding Mixtures, Cake Mixtures, Bun Mixtures, Blanc-Mange Powders, Gelatin Desserts, Jelly Powders, and the Like.

Ser. No. 557,973. Trenton Milling Company, Trenton, Ill. Filed May 27, 1948.



The drawing is lined for red and blue. Applicant claims ownership of Registration No. 176,505.
For Wheat Flour.
Claims use since June 6, 1918.

Ser. No. 592,486. Griggs, Cooper & Company, St. Paul, Minn. Filed Feb. 15, 1950.

Home

Applicant claims ownership of Registrations Nos. 11,850, 22,829, and others.

For Canned Vegetables, Canned Fruits, Canned Seafoods—Namely, Clams, Clam Chowder, Crab Meat, Sardines, Oysters, Lobsters, Shrimp and Tuna Fish; Canned Chicken, Canned Pork and Beans, Canned Hominy, Buckwheat Flour, Alimentary Pastes, Food Gelatin, Canned Vegetable Juice; Canned Fruit Juices—Namely, Apple Juice, Orange Juice, Grapefruit Juice, and Pineapple Juice; Peanut Butter, Table Syrup, Catsup, Olives, Salad Dressing, Chili Powder, Food Flavoring Extracts, Tea, Coffee, Canned Milk, Canned Soups, Table Salt, Marmalade, Jam, Mincemeat, Apple Butter, and Honey.

Claims use since 1877.

Ser. No. 599,517. Gertrude E. McCarter, doing business as Trudy Manufacturing Company, Osceola, Ind. Filed June 21, 1950.

O-Cin-O

For Spread, Including Pure Creamery Butter, Sugar, and Spices Used for Toast, Pancakes, Waffles, and French Toast.

Claims use since Apr. 27, 1950.

Ser. No. 600,492. Francis H. Leggett & Company, New York, N. Y. Filed July 11, 1950.

Premier

Applicant claims ownership of Registrations Nos. 301,717, 165,597, and others.

For Canned Berries; Canned and Bottled Fruits; Dried Fruits; Canned and Bottled Vegetables; Dried Vegetables; Dehydrated Vegetables; Canned Soups; Canned Fish; Canned Evaporated Milk; Canned Condensed Milk; Canned Fruit Juices; Canned Vegetable Juices; Canned Mushrooms; Canned Beans With Pork; Canned Baked Beans; Canned Sauerkraut; Canned Tomato Puree; Canned Apple Sauce; Canned and Bottled Cranberry Sauce; Bottled Cranberry Juice Cocktail; Bottled Spaghetti in Tomato Sauce; Canned Meats—Namely, Chicken, Deviled Ham, Potted Meat Food Product Containing Beef, Beef Tripe, Beef Broth, Cooked Beef Hearts, and Cooked Pork Kidneys; Pigs Feet, Pork Tongue in Gelatin, and Corned Beef Hash; Bottled Meats—Namely, Dried Beef, Chicken, and Frankfurters; Glace Fruit Peels; Nuts, Shelled and Salted; Alimentary Paste Products—Namely, Spaghetti, Macaroni, Noodles, Vermicelli; Cheese; Fruit Preserves; Fruit Jellies; Fruit Jams; Fruit Syrup for Food Flavoring Purposes; Pickles; Olives; Sweet Relish; Pickled Melon Rind; Chow Chow; Pickled Onions; Pimientos; Food Sauce—Namely, Chili Sauce, Spaghetti Sauce, and Chow Mein Sauce; Maraschino Style Cherries; Table Syrups; Molasses; Honey; Mincemeat; Salad Dressings—Namely, Mayonnaise, French Dressing, Roquefort Cheese Dressing; Raw Popcorn; Peanut Butter; Apple Butter; Mustard; Horseradish; Vinegar; Tomato Catsup; Marshmallow Creme; Food Flavoring Extracts; Seasonings for Flavoring Soups, Sauces, Gravies, Meats, and Vegetable Dishes; Spices; Gelatin Dessert Powders; Preparations for Making Puddings; Cereals—Namely, Farina, Tapioca, Oats, and Toasted Wheat; Corn Starch; Shredded Cocoanut; Cracker Meal; Tea; Cocoa; Coffee; Vegetable Shortening; Salad Oil—Namely, Peanut Oil, Corn Oil, and Cotton Seed Oil; Olive Oil; Canned Chicken and Egg Noodle Dinner; Bouillon Cubes; Canned and Bottled Ravioli; Canned Welsh Rarebit; Dried Lentils; Chutney; Mint Sauce; Monosodium Glutamate; Gelatin; Seafood Cocktail Sauce; Table Salt; Almond Paste; Kernel Paste; Macaroon Paste; Fondant Icing; Baking Chocolate; Grenadine Syrup for Food Flavoring Purposes; Instant Cocoa Mix; Arrowroot; Barley; Rice Flour; Canned Potatoes and Canned Potato Salad; Canned Fruit Nectars; Canned Chicken Broth; Canned Consomme; Canned Tamales; Herbs for Food Purposes; Canned Macaroni Creole; Canned Rice Dinner; Rice; Canned Chow Mein; Candy; Canned Brown Bread With Raisins; Canned Hominy; Canned Clam Juice; Canned Noodles for Chow Mein; Canned Tomato Sauce; Flour and Flour Mixes—Namely, Wheat Flour, Cake Flour, and Waffle and Pancake Flour; Potato Starch; Fruit Marmalade; Bottled Tomato Conserve; Canned Chili Con Carne; Canned Seafood—Namely, Anchovy Paste, Clams, Crab Meat, Herring Roe, Kippered Herring, Lobster, Oysters, Shad Roe, Shrimp, and Codfish Cakes; Sauerkraut Juice; and Rhubarb.

Claims use since September 1880.

Ser. No. 603,152. Walter L. Ford, doing business under the fictitious name and style of Walter Ford and Associates, Sacramento, Calif. Filed Sept. 5, 1950.



The representation of the goods and the words "A Meal on a Stick" are disclaimed.

For Small Sections of Food Mounted in Line on a Stick.

Claims use since July 1, 1950.

Ser. No. 603,921. Glaser, Crandell Co., Chicago, Ill. Filed Sept. 23, 1950.

STRASBERY

The word "Bery" is disclaimed.

For Berry Preserves.

Claims use since Sept. 19, 1950.

Ser. No. 614,560. Mary Ellen's, Inc., Berkeley, Calif. Filed May 31, 1951.

Mary Ellen's

Applicant claims ownership of Registration No. 431,211.

For Jams, Jellies, Honey, Table Syrup, Peanut Butter.

Claims use since July 20, 1932.

Ser. No. 617,899. C. Ralph Yarnall, Wyncote, Pa. Filed Aug. 20, 1951.

YARNILLA

For Vanilla Concentrate for Food Flavoring Purposes.

Claims use since May 26, 1951.

Ser. No. 618,568. Dehn & Co., Inc., Seattle, Wash. Filed Sept. 10, 1951.

HONEY BOY

Applicant claims ownership of Registration No. 103,188.

For Canned Salmon.

Claims use since Apr. 22, 1936.

Ser. No. 618,857. W. D. Loveless & Son, Watsonville, Calif. Filed Sept. 15, 1951.

KNOW HOW

For Fresh Vegetables—Namely, Tomatoes.

Claims use since July 20, 1951.

Ser. No. 619,146. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Filed Sept. 22, 1951.

Toranto

For Olive Oil.

Claims use since July 20, 1951.

CLASS 47

WINES

Ser. No. 615,955. Per Venge, doing business under the fictitious name and style of Venge & Company, Los Angeles, Calif. Filed June 30, 1951.

VENCOM

For Wine Specialty Made With Cherry Wine, Sugar, and Natural Flavoring Materials.

Claims use since Apr. 15, 1948.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 560,704. Independent Milwaukee Brewery, Milwaukee, Wis. Filed July 3, 1948.

CADET

For Beer.

Claims use since June 1, 1941.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 598,647. Lorine V. Gleason, doing business as John P. Gleason Mfg. Company, Los Angeles, Calif. Filed June 6, 1950.

Greenleaf

The representation of a mat in the form of a leaf colored green is disclaimed.

For Rubber-Like Table Place Mats.

Claims use since Oct. 26, 1946.

Ser. No. 604,181. American Mat Corporation, Toledo, Ohio. Filed Sept. 29, 1950. (Sec. 2f.)

TUF TRED

For Protective and Cushioning Mats and Rugs Fabricated From Rubber, Rubber Substitutes, and Similar Materials.

Claims use since October 1932.

Ser. No. 612,289. Heinrich Ernst Kniepkamp, Heilbronn (Neckar), West Germany, assignor to Hanns P. Kniepkamp, Trumansburg, N. Y. Filed Jan. 18, 1951.

Rollo

Priority is claimed under section 44(d). West German application filed July 19, 1950; Registration No. K 1420/IXfWz, dated July 19, 1950.

For Closures for Containers, Vessels, and Bottles for Storage and Transportation of Fluids and Food Products.

Ser. No. 613,356. American Bottle Closure Corporation, New York, N. Y. Filed May 1, 1951.

HERMATIC

For Combination Bottle Stopper and Dispensing Spout.

Claims use since Dec. 12, 1950.

Ser. No. 614,803. Air Crest Products Company, Chicago, Ill. Filed June 6, 1951.

AIR-STEP

For Rug and Carpet Cushions.

Claims use since May 16, 1951.

Ser. No. 615,912. Supreme Council, Mystic Order Veiled Prophets of the Enchanted Realm, Chicago, Ill. Filed June 29, 1951.



The human head represented in the mark is fanciful.
Applicant claims ownership of Registration No. 431,841.
For Banners, Pennants, and Flags.
Claims use since 1910.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 565,537. Bonne Bell, Inc., Lakewood, Ohio. Filed Sept. 21, 1948.

the final touch

Applicant claims ownership of Registration No. 506,883.
For Cologne.
Claims use since Sept. 3, 1948.

Ser. No. 612,948. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Filed Apr. 21, 1951.

BLUE DAHLIA

The word "Blue" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 612,949. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Filed Apr. 21, 1951.

CRIMSON PEARL

The word "Crimson" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 612,950. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Filed Apr. 21, 1951.

FUCHSIA JADE

The word "Fuchsia" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 612,953. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Filed Apr. 21, 1951.

ORANGE FROST

The word "Orange" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 612,956. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Filed Apr. 21, 1951.

RED SABLE

The word "Red" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 612,957. Dana Perfumes, Inc., Chicago, Ill., assignor to Les Parfums de Dana, Inc., New York, N. Y., a corporation of New York. Filed Apr. 21, 1951.

RENEGADE RED

The word "Red" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 612,958. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Filed Apr. 21, 1951.

RUNAWAY RED

The word "Red" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 612,960. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill. Filed Apr. 21, 1951.

SCARLET TULIP

The word "Scarlet" is disclaimed.
For Lipstick.
Claims use since Apr. 9, 1945.

Ser. No. 613,072. Richard Hudnut, New York, N. Y. Filed Apr. 24, 1951.

FLOWERING PLUM

The word "Plum" is disclaimed.
For Lipstick and Nail Lacquer.
Claims use since 1947.

Ser. No. 614,559. Luyties Pharmacal Company, St. Louis, Mo. Filed May 31, 1951. (Sec. 2f.)

DENTABS

For Dentifrice in Tablet Form.
Claims use since Oct. 2, 1928.

Ser. No. 616,110. The Kenton Pharmacal Co., Covington, Ky. Filed July 5, 1951.

Brownatone

Applicant claims ownership of Registration No. 132,718.
For Hair Coloring Preparation.
Claims use since Mar. 15, 1911.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 576,116. Finger Lakes Chemical Company, Inc., Ithaca and Etna, N. Y. Filed Mar. 26, 1949.

HYGEE

For Synthetic Soap of the Alkaline Type Used for Glasses, Dishes, Cooking and Eating Utensils, and Food Product Equipment.
Claims use since May 1948.

Ser. No. 577,366. L. M. Brownsey, doing business as L. M. Brownsey Supply Co., Chicago, Ill. Filed Apr. 19, 1949.

SPEED-X

For Liquid Floor Cleaner, White Tire Cleaner, and a Combination Penetrating Floor Cleaner and Grease Solvent.
Claims use since November 1938.

Ser. No. 580,167. American Alcolac Corporation, New York, N. Y. Filed May 17, 1949.

ATALCO

For Detergents Containing Anionic or Kationic or Non-Ionic Substances for General Use in the Industrial Art.
Claims use since May 16, 1949.

Ser. No. 588,104. Packers Tar Soap, Inc., Mystic, Conn. Filed Nov. 19, 1949. (Sec. 2f as to "Packer's.")

PACKER'S *Charm Soap*

The word "Soap" is disclaimed. Applicant claims ownership of Registrations Nos. 407,047, 430,785, and 430,786.
For Soap.
Claims use since Nov. 15, 1949, as to the mark shown; and since 1877 as to "Packer's."

Ser. No. 595,723. Huntington Laboratories, Inc., Huntington, Ind. Filed Apr. 14, 1950.

PUR-O-SAN

For Dry Cleaning Soap.
Claims use since Nov. 5, 1934.

Ser. No. 602,765. Keuffel & Esser Company, Hoboken, N. J. Filed Aug. 25, 1950. (Sec. 2f.)

INKOFF

Applicant claims ownership of Registration No. 278,139.
For Ink Eradicator for Removing Drawing or India Ink From Drawings.
Claims use since June 26, 1926.

Ser. No. 610,013. The Gerson-Stewart Corporation Company, Cleveland, Ohio. Filed Feb. 13, 1951.

Thesco Organic Cleaner

The words "Organic Cleaner" are disclaimed.
For Cleaning Powder for Toilet Bowls.
Claims use since January 1918.

Ser. No. 610,769. West Disinfecting Company, Long Island City, N. Y. Filed Mar. 2, 1951.

GERMIDYNE

For Antiseptic Hand Cleanser in Powder Form.
Claims use since Dec. 7, 1950.

Ser. No. 611,530. Quality Chemists, Inc., St. Louis, Mo. Filed Mar. 19, 1951.

Eridan

Applicant claims ownership of Registration No. 549,018.
For Shampoos.
Claims use since July 21, 1949.

Ser. No. 611,632. Mt. Hood Soap Company, Portland, Oreg. Filed Mar. 22, 1951.

HOOD C-20

For Powdered Soap.
Claims use since Apr. 8, 1949.

SERVICE MARKS

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 616,162. George L. Cornell, doing business under the name and style of G. L. Cornell Company, Bethesda, Md. Filed July 6, 1951.



For Servicing and Repair of Turf Maintenance Equipment—Namely, Power and Hand Mowers, Tractors, and Power Sprayers.

Claims use since Jan. 1, 1950.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 609,716. Fatties Anonymous, Inc., New York, N. Y. Filed Feb. 7, 1951.

FATTIES ANONYMOUS

For Assisting Individuals Affected With Obesity, Through Education, Group Associations and Exchanges and Through Individual Study, Supervision and Training, To Obtain a Proper Psychological Attitude and Understanding Regarding Their Condition and To Develop an Intelligent Willingness To Mold and Control Their Habits and Desires.

Claims use since September 1944.

Ser. No. 609,717. Fatties Anonymous, Inc., New York, N. Y. Filed Feb. 7, 1951.



For Assisting Individuals Affected With Obesity, Through Education, Group Associations and Exchanges and Through Individual Study, Supervision and Training, To Obtain a Proper Psychological Attitude and Understanding Regarding Their Condition and To Develop an Intelligent Willingness To Mold and Control Their Habits and Desires.

Claims use since June 1948.

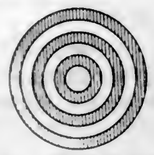
Ser. No. 609,718. Fatties Anonymous, Inc., New York, N. Y. Filed Feb. 7, 1951.



For Assisting Individuals Affected With Obesity, Through Education, Group Associations and Exchanges and Through Individual Study, Supervision and Training, To Obtain a Proper Psychological Attitude and Understanding Regarding Their Condition and To Develop an Intelligent Willingness To Mold and Control Their Habits and Desires.

Claims use since June 1948.

Ser. No. 613,856. Urantia Foundation, Chicago, Ill. Filed May 14, 1951.



The drawing is lined for blue.

For Religious Educational Services—Namely, Instructing the Peoples of the World in the Comprehension and Understanding of Cosmology and the Relation of the Planet on Which We Live to the Universe, of the Genesis and Destiny of Man and His Relation to God, and of the True Teachings of Jesus Christ; and for the Inculcation and Encouragement of the Realization and Appreciation of the Fatherhood of God and the Brotherhood of Man—in Order To Increase and Enhance the Comfort, Happiness, and Well-Being of Man, as an Individual and as a Member of Society, Through the Fostering of a Religion, a Philosophy, and a Cosmology Which Are Commensurate With Man's Intellectual and Cultural Development.

Claims use since Oct. 25, 1950.

Ser. No. 616,721. Matson Navigation Company, San Francisco, Calif. Filed July 20, 1951.

ROYAL HAWAIIAN SERENADERS

The words "Hawaiian" and "Serenaders" are disclaimed.

For Musical Entertainment Service Rendered by an Instrumental and Vocal Group.

Claims use since June 4, 1947.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,673. Thermally Insulated Base Metal Ice Vaults and Buckets. The Heller Company, White Plains, N. Y.
Filed Sept. 28, 1945, Serial No. 489,118. Published Jan. 1, 1952. Class 2.

444,674. Electric Latrines. Horace G. Martin, New York, N. Y.
Filed May 28, 1946, Serial No. 502,907. Published Jan. 1, 1952. Class 13.

444,675. Extension Hack Saw Frames, Lathing Hatchets, Claw Hatchets, Butcher Saws, Kitchen Saws, Hand Operated Hammers, Garden Shovels, and Spades. Dunham, Carrigan & Hayden Co., San Francisco, Calif.
Filed June 28, 1947, Serial No. 525,071. Published Dec. 11, 1951. Class 23.

ACT OF 1946, PRINCIPAL REGISTER

556,478. Girdles and Panty Girdles. Samuel R. Brown, doing business as Romance of California, Los Angeles, Calif.
Original filed, act of 1905, Mar. 8, 1946; amended to application under act of 1946, Principal Register, Jan. 18, 1949, Serial No. 497,843. Published Jan. 1, 1952. Class 39.

556,479. Cardboard Boxes. American Box Board Company, Grand Rapids, Mich.
Original filed, act of 1905, Aug. 12, 1946; amended to application under act of 1946, Principal Register, Sept. 19, 1947, Serial No. 507,228. Published July 24, 1951. Class 2.

556,480. Catch Basins, Spice Bins, Pails and Buckets, Sausage and Meat Cooking Tanks, Steel Containers for Food Products Not Including Milk Cans. St. John & Co., Chicago, Ill.
Original filed, act of 1905, Mar. 27, 1947; amended to application under act of 1946, Principal Register, Jan. 29, 1949, Serial No. 519,701. Published Feb. 28, 1950. Class 2.

556,481. Apparatus for Loading and Trimming Pulverulent, Granular or Small Lump Material in Cars, Ships, Bins, and the Like, Including a Feed Spout and Thrower Unit. Stephens-Adamson Mfg. Co., Aurora, Ill.
Original filed, act of 1905, May 31, 1947; amended to application under act of 1946, Principal Register, Feb. 20, 1951, Serial No. 523,337. Published Dec. 4, 1951. Class 23.

556,482. Wheat Flour. The Loudonville Milling Company, Loudonville, Ohio, assignor to Standard Milling Company, Chicago, Ill., a corporation of Illinois.
Filed Aug. 28, 1947, Serial No. 532,732. Published Dec. 4, 1951. Class 46.

556,483. Butter, Fresh Eggs, and Dressed Poultry. Armour and Company, Chicago, Ill.
Filed Sept. 4, 1947, Serial No. 533,258. Published Dec. 11, 1951. Class 46.

556,484. Imitation Vanilla Flavor Used for Food Flavoring Purposes. Seeman Brothers, Inc., New York, N. Y.
Filed Sept. 4, 1947, Serial No. 533,400. Published Dec. 4, 1951. Class 46.

556,485. Cereal Breakfast Foods. Kellogg Company, Battle Creek, Mich.
Filed Oct. 1, 1947, Serial No. 536,400. Published Dec. 25, 1951. Class 46.

556,486. Tapered Grooved Metal Pins for Securing Parts of Machinery Together. Groov-Pin Corporation, Union City, N. J.
Filed Oct. 3, 1947, Serial No. 536,689. Published Dec. 25, 1951. Class 23.

556,487. Coffee. Martin L. Hall Company, Boston, Mass.
Filed Oct. 8, 1947, Serial No. 537,177. Published Dec. 4, 1951. Class 46.

556,488. Boys' Wash Suits. Jesse H. Frank, Philadelphia, Pa.
Filed Oct. 25, 1947, Serial No. 539,038. Published Feb. 22, 1949. Class 39.

556,489. Men's Athletic Shoes Made of Leather, Rubber, or Fabric, or Combinations Thereof. Brooks Shoe Manufacturing Company, Philadelphia, Pa.
Filed Oct. 31, 1947, Serial No. 539,643. Published Jan. 23, 1951. Class 39.

556,490. Cigars. H. Anton Bock Co. Inc., New York, N. Y.
Filed Dec. 11, 1947, Serial No. 544,033. Published Jan. 1, 1952. Class 17.

556,491. Imitation Leather Cases, Sold Empty by Applicant and Designed To Receive and Enclose All of the Tools and Tire Changing Equipment Normally Found in an Automobile. Universal Auto Products Corporation, Maywood, Ill.
Filed Dec. 27, 1947, Serial No. 545,601. Published Jan. 1, 1952. Class 2.

556,492. Formula Feeds for Poultry, and Cornmeal for Human Consumption. Schultz, Baujan & Co., Beardstown, Ill.
Filed Jan. 2, 1948, Serial No. 546,060. Published Dec. 25, 1951. Class 46.

556,493. Shower Bath Doors, Bath Tub Enclosures, and Shower Bath Enclosures. Stich Bros. Mfg. Co., Los Angeles, Calif.
Filed Jan. 20, 1948, Serial No. 547,578. Published Dec. 18, 1951. Class 12.

556,494. Bar and Restaurant Equipment—Namely, Faucets, Pipes, and Tanks for Beer Coolers and Metal Sinks With or Without Integral Workboards. Tyson Metal Products, Pittsburgh, Pa.
Filed Jan. 20, 1948, Serial No. 547,581. Published Jan. 1, 1952. Class 13.

556,495. Shoes Made of Leather. Tame Shoe Corporation, New York, N. Y.
Filed Mar. 12, 1948, Serial No. 551,829. Published Jan. 8, 1952. Class 39.

556,496. Partitions or Fillers Made of Paper and Providing Adjacent Compartments for Boxes and Cartons. Traver Corporation, Chicago, Ill.
Filed Mar. 24, 1948, Serial No. 552,898. Published Sept. 11, 1951. Class 2.

556,497. Animal Food—Namely, Dog Food. Blatchford Calf Meal Company, Waukegan, Ill.
Filed Apr. 2, 1948, Serial No. 553,666. Published Dec. 4, 1951. Class 46.

556,498. Coffee Concentrate in Powder Form. Atomised Food Products Limited, Hertfordshire, England.
Filed Apr. 10, 1948, Serial No. 554,290. Published Nov. 1, 1949. Class 46.

556,499. Canned Salad and Cooking Oil. Pastene & Co., Inc., New York, N. Y.
Filed Apr. 12, 1948, Serial No. 554,403. Published Dec. 4, 1951. Class 46.

556,500. Flavors and Chemical Adjuvants for Foods, Etc. Monsanto Chemical Company, St. Louis, Mo.
Filed Apr. 17, 1948, Serial No. 554,910. Published Dec. 25, 1951. Class 46.

556,501. Liquefied Petroleum Gas Storage Tanks. The J. B. Beaird Company, Inc., Shreveport, La.
Filed Apr. 26, 1948, Serial No. 555,589. Published Jan. 1, 1952. Class 2.

556,502. Canned Sardines. Bergen Preserving Company A/S, Bergen, Norway, assignor to Norwegian Preserving Co. A/S, Bergen, Norway, a joint-stock company of Norway.
Filed Apr. 26, 1948, Serial No. 555,591. Published Dec. 4, 1951. Class 46.

556,503. Automatic Coin-Operated Dispensing Machines and Parts Therefor. Trans-Meter Corporation, New York, N. Y.
Filed Apr. 29, 1948, Serial No. 555,851. Published Nov. 20, 1951. Class 23.

556,504. Fluid Milk, Creamed Cottage Cheese, Fresh Eggs, and Butter. Dellwood Dairy Co., Inc., Yonkers, N. Y.
Filed May 21, 1948, Serial No. 557,509. Published Dec. 18, 1951. Class 46.

556,505. Poultry Foods Having as Their Principal Ingredients Mixed Grains, Meat Scrap and Minerals, Etc. John W. Eshelman & Sons, Lancaster, Pa.
Filed May 28, 1948, Serial No. 558,024. Published Jan. 8, 1952. Class 46.

556,506. Venetian Blinds. Donald H. Ruggles, Tulsa, Okla., assignor to E. L. Markham, Jr., Dallas, Tex.
Filed July 9, 1948, Serial No. 561,045. Published Dec. 18, 1951. Class 32.

556,507. Fresh Deciduous Fruits and Vegetables. George Woo, doing business as W. Fay Company, Los Angeles, Calif.
Filed July 13, 1948, Serial No. 561,279. Published Jan. 1, 1952. Class 46.

556,508. Wheat Flour. The Abilene Flour Mills Company, Abilene, Kans.
Filed Aug. 10, 1948, Serial No. 563,091. Published Dec. 18, 1951. Class 46.

556,509. Wheat Flour. The Abilene Flour Mills Company, Abilene, Kans.
Filed Aug. 10, 1948, Serial No. 563,092. Published Dec. 18, 1951. Class 46.

556,510. Wheat Flour. The Abilene Flour Mills Company, Abilene, Kans.
Filed Aug. 10, 1948, Serial No. 563,093. Published Dec. 18, 1951. Class 46.

556,511. Lock-Smith's Supplies—Namely, Locking Devices, Examples of Which Are Desk Drawer, Wardrobe, Locker, and File Locks, Coin Controlled Vending Machine Locks and Key Plugs and Cylinders for the same. Independent Lock Company, Fitchburg, Mass.
Filed Aug. 25, 1948, Serial No. 564,128. Published Jan. 1, 1952. Class 25.

556,512. Hickory Tool Handles. Sequatchie Handle Works, Sequatchie, Tenn.
Filed Aug. 26, 1948, Serial No. 564,221. Published Oct. 23, 1951. Class 23.

556,513. Edible Oils—Namely, Olive Oil; Tomato Paste and Canned Tuna. Tama Trading Company, Inc., Los Angeles, Calif.
Filed Aug. 28, 1948, Serial No. 564,359. Published Nov. 20, 1951. Class 46.

556,514. Outdoor Furniture—Namely, Chairs, Seats, Settees, Benches, Portable Lawn Swings, and Gliders. Goshen Manufacturing Company, Goshen, Ind.
Filed Sept. 10, 1948, Serial No. 564,939. Published Jan. 1, 1952. Class 32.

556,515. Grouting Material—Namely, a Resin Emulsion and Dehydrating Powder Packaged for Admixture on the Job. Armstrong Cork Company, Lancaster, Pa.
Filed Sept. 15, 1948, Serial No. 565,160. Published Dec. 18, 1951. Class 12.

556,516. Women's Shoes. Keystone Slipper Co., Inc., Philadelphia, Pa.
Filed Sept. 22, 1948, Serial No. 565,631. Published Jan. 8, 1952. Class 39.

556,517. Fruit Preserves, Bakers' Supplies—Namely, Almond-Apricot Kernel Paste, Etc. Louis Ender, New York, N. Y.
Filed Sept. 23, 1948, Serial No. 565,694. Published Jan. 1, 1952. Class 46.

556,518. Cloth, Coated, Impregnated, Processed, or Treated With Oil or Oils, Etc. Interchemical Corporation, New York, N. Y.
Filed Apr. 14, 1948, Serial No. 565,991. Published Jan. 1, 1952. Class 20.

556,519. Cough Syrup, Cold Tablets, Laxatives, Diuretics, Foot Powder, Antiseptics, Chest Rub, Nasal Balm, Nerve Sedative, Palliatives, First Aid Salve, Liniment, Poison Ivy Lotion, Vitamin Tablets, and Mineral Tablets. Herb-Craft Health Products, Inc., Valparaiso, Ind.
Filed Sept. 30, 1948, Serial No. 566,141. Published Dec. 18, 1951. Class 18.

556,520. Portable Machines for Collecting, Screening, Removing Scrap From, Aerating and Discharging in Stream Form Molding Sand. Pettibone Mulliken Corporation, Chicago, Ill.
Filed Oct. 9, 1948, Serial No. 566,765. Published Oct. 23, 1951. Class 23.

556,521. Syphon Unit for Removing Condensate From Steam Heated Rotating Cylinders Such as Cotton Slashers and the Like. The Johnson Corporation, Three Rivers, Mich.
Filed Oct. 7, 1948, Serial No. 566,842. Published Jan. 1, 1952. Class 23.

556,522. Bulk Ice Cream and Ice Cream Novelties—Namely, Ice Cream Cakes, Fruit Ices, Ice Cream Sandwiches, Ice Cream Pops, Ice Cream Sundaes, Ice Cream Tarts, Twin Ice Sticks. Sunnydale Ice Cream Co. Inc., Brooklyn, N. Y.
Filed Nov. 1, 1948, Serial No. 568,007. Published Jan. 8, 1952. Class 46.

556,523. Wheat Flour. Atlanta Milling Company, Atlanta, Ga.
Original filed, act of 1946, Supplemental Register, Nov. 26, 1948; amended to application, Principal Register, May 25, 1950, Serial No. 569,424. Published Jan. 1, 1952. Class 46.

556,524. Conjoint Acting Combination of Partly Prepared Units for Kiln- and Electric-Furnace Lining, Etc. E. J. Lavino and Company, Philadelphia, Pa.
Filed Nov. 30, 1948, Serial No. 569,627. Published Dec. 18, 1951. Class 12.

556,525. Food Preparation in Powdered Form for Making Puddings, Pies, Desserts, and Cakes. The Kosto Co., Chicago, Ill.
Filed Dec. 15, 1948, Serial No. 570,562. Published Jan. 8, 1952. Class 46.

556,526. Counting Apparatus Which Automatically Registers the Sales in Vending Machine. Chalex Corporation, Chicago, Ill.
Filed Dec. 18, 1948, Serial No. 570,767. Published Dec. 4, 1951. Class 26.

556,527. Pencil Sharpeners and Parts Therefor. Spengler-Loomis Manufacturing Company, doing business as Automatic Pencil Sharpener Co., Rockford, Ill.
Filed Dec. 27, 1948, Serial No. 571,179. Published Nov. 2, 1951. Class 23.

556,528. Assorted Hard Candies. Marshall Field & Company, Chicago, Ill.
Filed Dec. 29, 1948, Serial No. 571,281. Published Oct. 9, 1951. Class 46.

556,529. Preserved Sea Foods—Namely, Sardines and Shrimp Cocktail; and Anchovies and Crackers. Vaca Foods, Inc., Chicago, Ill.
Filed Dec. 29, 1948, Serial No. 571,304. Published Jan. 1, 1952. Class 46.

556,530. Preserved Sea Foods—Namely, Sardines and Shrimp Cocktail; and Anchovies and Crackers. Vaca Foods, Inc., Chicago, Ill.
Filed Dec. 29, 1948, Serial No. 571,305. Published Jan. 8, 1952. Class 46.

556,531. Plug Cut Tobacco for Smoking and Chewing. The American Tobacco Company, New York, N. Y.
Filed Jan. 10, 1949, Serial No. 571,885. Published Dec. 18, 1951. Class 17.

556,532. Solvents for Removing Paraffin From Oil Wells, Oil Storage Tanks, Pipe Lines, and the Like. Oscar B. Albritton, doing business as The Indian Chemical Company, Wichita Falls, Tex.
Filed Feb. 2, 1949, Serial No. 573,182. Published Aug. 14, 1951. Class 52.

556,533. Solvents for Removing Paraffin From Oil Wells, Oil Storage Tanks, Pipe Lines, and the Like. Oscar B. Albritton, doing business as The Indian Chemical Company, Wichita Falls, Tex.
Filed Feb. 2, 1949, Serial No. 573,183. Published Aug. 14, 1951. Class 52.

556,534. Frozen Confections on a Stick and Powdered Flavoring Materials for Making the Same. Joe Lowe Corporation, New York, N. Y.
Filed Feb. 7, 1949, Serial No. 573,429. Published Jan. 8, 1952. Class 46.

556,535. Cigars, Cigarettes, Smoking Tobacco, and Chewing Tobacco. Rock City Tobacco Company (1936) Limited, Quebec, Quebec, Canada.
Filed Feb. 11, 1949, Serial No. 573,740. Published Jan. 1, 1952. Class 17.

556,536. Wood Beds, Dressers, Chests of Drawers, Kneehole Desks, Chestrobes, Wardrobes, Vanities, and Night Stands. Puritan Furniture Mfrs., Melrose, Mass.
Filed Feb. 17, 1949, Serial No. 574,050. Published Jan. 1, 1952. Class 32.

556,537. Cooked and Emulsified Product of Cocoa, Sugar, and Flavorings for Flavoring Ice Cream. H. B. Hunter Company, Inc., Norfolk, Va.
Filed Jan. 26, 1949, Serial No. 574,269. Published Jan. 8, 1952. Class 46.

556,538. Fish Oils for Use as Food and Ingredients in food. British Cod Liver Oils (Hull & Grimsby) Limited, Hull, England.
Filed Mar. 18, 1949, Serial No. 575,818. Published Jan. 1, 1952. Class 46.

556,539. Store Display Screens. Westinghouse Electric Corporation, Pittsburgh and East Pittsburgh, Pa.
Filed Apr. 8, 1949, Serial No. 576,828. Published Jan. 1, 1952. Class 32.

556,540. Wood Scrapers, Wall Scrapers, Putty Knives, Glass Cutters. Red Devil Tools, Irvington, N. J.
Filed May 20, 1949, Serial No. 579,214. Published Nov. 27, 1951. Class 23.

556,541. Concentrate for Livestock and Poultry Feed Containing as Ingredients Fish Meal, Etc. Central Soya Company, Inc., Fort Wayne, Ind.
Filed June 7, 1949, Serial No. 580,048. Published Jan. 1, 1952. Class 46.

556,542. Canned Sardines. Frank Verga, Moss Landing, Calif., assignor to Santa Cruz Canning Company, San Francisco, Calif., a corporation.
Filed June 13, 1949, Serial No. 580,385. Published Jan. 8, 1952. Class 46.

556,543. Raw Popping Corn. Chunk-E-Nut Products Company, Inc., doing business as Chunk-E-Nut Products Co., Philadelphia, Pa.
Filed June 20, 1949, Serial No. 580,770. Published Dec. 25, 1951. Class 46.

556,544. Canned, Bottled and Packaged Products—Namely, Beans, Corn, Tomatoes, Peas, Pumpkin, Butter, Salmon, Coffee, Grapefruit, Pineapple, Etc. Minneapolis Allied Grocers, Inc., Minneapolis, Minn.
Filed June 25, 1949, Serial No. 581,074. Published June 13, 1950. Class 46.

556,545. Venetian Blinds. Rolscreen Company, Pella, Iowa.
Filed July 9, 1949, Serial No. 581,734. Published Jan. 1, 1952. Class 32.

556,546. Deodorant Spray and Non-Perspirant for Personal Use. The Pharma-Craft Corporation, New York, N. Y.
Filed July 15, 1949, Serial No. 582,054. Published June 27, 1950. Class 51.

556,547. Men's and Boys' Shoes of Leather, and Leather and Rubber. Wall-Streeter Shoe Co., North Adams, Mass.
Filed July 19, 1949, Serial No. 582,195. Published Oct. 16, 1951. Class 39.

556,548. Ladies' Costume Jewelry—Namely, Necklaces, Ornamental Pins, Lapel Pins, Ear Rings, Bracelets, and Finger Rings Which Are Made of Brass, Sterling Silver and Gold Filled Stock. Perry Novelty Company, Providence, R. I.
Filed June 1, 1949, Serial No. 582,387. Published Nov. 27, 1951. Class 28.

556,549. Mouldings Used for Window Panes for Store Front Constructions, Etc. National Store Fronts Co., Inc., Boston and Roxbury, Mass.
Filed Aug. 2, 1949, Serial No. 582,851. Published Dec. 18, 1951. Class 12.

556,550. Water Ices, and Ice Cream in Bulk and in Various Frozen Shapes and Forms. Tip Top Ice Cream Company (Wellington) Limited, Waterloo, Quay, Wellington, New Zealand.
Filed Aug. 5, 1949, Serial No. 583,058. Published Jan. 8, 1952. Class 46.

556,551. Drying, Dyeing, Bleaching and Carbonizing Machines and Parts Thereof; Conveyors; Squeeze Rolls; Wetting Rolls; Synthetic Material Curing and Setting Machines and Parts Thereof, and Mixing and Extruding Machines. Ralph C. Parkes, doing business as The National Drying Machinery Co., Philadelphia, Pa.
Filed Aug. 23, 1949, Serial No. 583,885. Published Nov. 20, 1951. Class 23.

556,552. Jewelry for Personal Wear, Not Including Watches—Namely, Charms, Bracelets, and Anklets. Ina Schoncite, Los Angeles, Calif.
Filed Aug. 23, 1949, Serial No. 583,891. Published Nov. 27, 1951. Class 28.

556,553. Prune Juice and Shredded Coconut. W. F. Straub & Company, Chicago, Ill.
Filed Aug. 26, 1949, Serial No. 584,088. Published Jan. 1, 1952. Class 46.

556,554. Pianos. Melodigrand Corp., New York, N. Y.
Filed Oct. 8, 1949, Serial No. 586,009. Published Jan. 1, 1952. Class 36.

556,555. Pressure-Sensitive Adhesive Tape — Namely, Cellophane Tape. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed Oct. 26, 1949, Serial No. 586,869. Published Dec. 25, 1951. Class 5.

556,556. Pressure-Sensitive Adhesive Tape — Namely, Cellophane Tape. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed Oct. 26, 1949, Serial No. 586,870. Published Dec. 25, 1951. Class 5.

556,557. Ladies' and Misses' Dresses, Coats, Suits, Blouses, and Skirts. David Crystal, Inc., New York, N. Y.
Filed Nov. 2, 1949, Serial No. 587,182. Published Jan. 8, 1952. Class 39.

556,558. Floor Wax. American Stores Company, Philadelphia, Pa.
Filed Nov. 30, 1949, Serial No. 588,542. Published Dec. 25, 1951. Class 4.

556,559. Children's Aspirin. Forrest, Inc., Oyster Bay, N. Y.
Filed Dec. 1, 1949, Serial No. 588,638. Published Nov. 13, 1951. Class 18.

556,560. Water Supply Systems, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 6, 1949, Serial No. 588,893. Published Nov. 13, 1951. Class 23.

556,561. Lipstick and Nail Lacquer. Chen Yu, Inc., New York, N. Y., assignor to Richard Hudnut, New York, N. Y., a corporation of New York.
Filed Dec. 10, 1949, Serial No. 589,147. Published Dec. 18, 1951. Class 51.

556,562. Cleaning and Polishing Preparation for Use on Automobiles, Furniture, and Upon All Painted, Varnished, and Lacquered Surfaces. D. S. Appell, Columbus, Ohio.
Filed Dec. 13, 1949, Serial No. 589,237. Published Dec. 25, 1951. Class 4.

556,563. Stapling Machines Used for Fastening Papers, Cardboard, Fabrics, and Light Gauge Metal Together, and Also for Fastening Papers, Cardboard, Fabrics, and Light Gauge Metal on to Wood. Markwell Manufacturing Company, Inc., New York, N. Y.
Filed Dec. 13, 1949, Serial No. 589,265. Published Dec. 18, 1951. Class 23.

556,564. Packages of Rice. Liberty Rice Mill, Inc., Kaplan, La.
Filed Dec. 16, 1949, Serial No. 589,456. Published Dec. 4, 1951. Class 46.

556,565. Electrolytes or Solutions for Batteries. Ionite Battery Corporation, Price, Utah.
Filed Dec. 21, 1949, Serial No. 589,724. Published Jan. 8, 1952. Class 6.

556,566. Meats—Namely, Canned Ham, Smoked Pork Shoulder, and Bacon. Merkel, Inc., Jamaica, N. Y.
Filed Dec. 21, 1949, Serial No. 589,735. Published Jan. 8, 1952. Class 46.

556,567. Cooked Chicken. Herman Josephart, Miami Beach, Fla.
Filed Dec. 22, 1949, Serial No. 589,789. Published Jan. 1, 1952. Class 46.

556,568. Flavoring Products—Namely, a Flavoring Base Used in the Manufacture of Foods. S. B. Penick & Company, New York, N. Y.
Filed Dec. 29, 1949, Serial No. 590,102. Published Jan. 1, 1952. Class 46.

556,569. Wall Cabinets, Floor Cabinets, Doors, Drawers, and Other Structural Parts for Completing Cabinets Sold as Such, Desks, Drawers, Drawbins, Panels for Cabinets, and Finished Shelves. Geneva Modern Kitchens, Inc., Geneva, Ill.
Filed Dec. 30, 1949, Serial No. 590,149. Published Dec. 18, 1951. Class 32.

556,570. Emeralds and Precious Stones. Trabert & Hoeffer Inc., New York, N. Y.
Filed Jan. 12, 1950, Serial No. 590,766. Published Nov. 27, 1951. Class 28.

556,571. Ceramic Floor and Wall Tile. Selectile Company, Inc., West Los Angeles, Calif.
Filed Jan. 10, 1950, Serial No. 590,785. Published Dec. 25, 1951. Class 12.

556,572. Cigars. H & M Cigar Factory, Inc., Jacksonville, Fla.
Filed Jan. 18, 1950, Serial No. 591,033. Published Dec. 11, 1951. Class 17.

556,573. Pickles. C. C. Lang & Son, Inc., Baltimore, Md.
Filed Jan. 18, 1950, Serial No. 591,038. Published Dec. 4, 1951. Class 46.

556,574. Watch Bands, Cuff Links, and Tie Bars Made in Part of or Plated With Precious Metal. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Filed Jan. 19, 1950, Serial No. 591,090. Published Nov. 27, 1951. Class 28.

556,575. Powdered Milk. Laurentide Dairy Products Limited, Quebec, Quebec, Canada.
Filed Jan. 19, 1950, Serial No. 591,092. Published Jan. 1, 1952. Class 46.

556,576. Whiskey. "21" Brands Distillers Corporation, New York, N. Y.
Filed Jan. 25, 1950, Serial No. 591,446. Published Nov. 13, 1951. Class 49.

556,577. Liquid Chemical Cleanser for General Household Cleaning; also for Use on the Hands. The Kleenzit Corporation, Brownsville, Tenn.
Filed Jan. 26, 1950, Serial No. 591,488. Published Jan. 1, 1952. Class 52.

556,578. Ceramic Wall Tile. Gladding, McBean & Co., Los Angeles, Calif.
Filed Jan. 27, 1950, Serial No. 591,568. Published Dec. 25, 1951. Class 12.

556,579. Frozen (Quick-Deep Frozen) Fish and Canned Fish. Les Frigoriferes du Littoral, Oostende, Belgium.
Filed Jan. 31, 1950, Serial No. 591,742. Published Dec. 25, 1951. Class 46.

556,580. Women's Sling Capes. A. Harris and Company, Dallas, Tex.
Filed Feb. 2, 1950, Serial No. 591,850. Published Jan. 8, 1952. Class 39.

556,581. Gloves and Mittens of Leather, Fabric, and a Combination of Leather and Fabric. The Boss Manufacturing Company, Kewanee, Ill.
Filed Feb. 3, 1950, Serial No. 591,909. Published Jan. 1, 1952. Class 39.

556,582. Candy. Euclid Candy Company of California, Inc., San Francisco, Calif.
Filed Feb. 6, 1950, Serial No. 592,020. Published Jan. 8, 1952. Class 46.

556,583. Deep Fried Cheese Flavored Corn Meal Product in Puffed Form. The Mann Company of Washington, Washington, D. C.
Filed Feb. 10, 1950, Serial No. 592,274. Published Jan. 8, 1952. Class 46.

556,584. Paint and Woodwork Cleaner, a Floor Cleaner, a Cleaner and Deodorizer for Toilet Bowls, a Cleaner for All Types of Metal, and a Degreasing Agent for Cleaning Floors. Modern Methods, Incorporated, Atlanta, Ga.
Filed Feb. 16, 1950, Serial No. 592,574. Published Jan. 1, 1952. Class 52.

556,585. Recording Apparatus Including Charts Sold as a Unit, Etc. The Dickson Company, Chicago, Ill.
Filed Feb. 17, 1950, Serial No. 592,618. Published Dec. 4, 1951. Class 26.

556,586. Posting Trays, Rolling Filing Cabinets, Rolling Pedestals for Supporting Posting Trays, Accounting Boards, Machine Bookkeeping Binders, and Similar Office Equipment. Charles R. Hadley Company, Los Angeles, Calif.
Filed Mar. 3, 1950, Serial No. 593,347. Published Jan. 1, 1952. Class 32.

556,587. Mix of Corn Meal, Wheat Flour, and Other Ingredients for Corn Bread, Corn Sticks, Muffins, Pancakes, and the Like. Little Crow Milling Company, Inc., Warsaw, Ind.
Filed Mar. 11, 1950, Serial No. 593,805. Published Jan. 8, 1952. Class 46.

556,588. Power Actuated Tools Designed for Firing Pins, Bolts, Studs, Screws, Rivets, and Plugs Into or Through Metal, Concrete, Masonry, and the Like. Portable Industries, Inc., Cleveland, Ohio.
Filed Mar. 14, 1950, Serial No. 593,936. Published June 26, 1951. Class 23.

556,589. Ladies' and Misses' and Junior Misses' Nightgowns, Slips, and Panties. Max Schwartz Lingerie, Inc., New York, N. Y.
Filed Mar. 16, 1950, Serial No. 594,070. Published Jan. 1, 1952. Class 39.

556,590. Distilled Milk Used as an Ingredient for Butter, Cheese, and Milk and Cheese Coagulators. Leon W. Chumlea, doing business as Chumlea's Laboratories and as Associated Laboratories, Lebanon, Ind.
Filed Mar. 17, 1950, Serial No. 594,102. Published Dec. 11, 1951. Class 46.

556,591. Dried Cheese Whey. Herbert K. Clofine, Philadelphia, Pa.
Filed Mar. 18, 1950, Serial No. 594,197. Published Jan. 8, 1952. Class 46.

556,592. Cement Preparation for Bonding or Laminating Purposes and Also Capable of Bonding Plastic Material, Masonite, or Paper to Wood as Well as Paper to Masonite. Coating Materials Laboratories, Inc., Belleville, N. J.
Filed Mar. 18, 1950, Serial No. 594,198. Published Dec. 25, 1951. Class 5.

556,593. Liquified Petroleum Gas Packaged in Disposable Containers for Use With Small Portable Gas Burners. Pressure Products Corporation, Chicago, Ill.
Filed Mar. 23, 1950, Serial No. 594,490. Published Feb. 6, 1951. Class 6.

556,594. Household Knives—Namely, Table Knives, Paring Knives, and Grapefruit Knives, Pocket Knives, Hunting Knives, Fishing Knives, Butchers' Knives, Cleavers, Spatulas, and Forks. Utica Cutlery Company, Utica, N. Y.
Filed Apr. 6, 1950, Serial No. 595,344. Published Nov. 6, 1951. Class 23.

556,595. Shelled Peanuts, Both Salted and Unsalted. Seabrook Associates, Tyrone, Pa.
Filed Apr. 13, 1950, Serial No. 595,684. Published Jan. 1, 1952. Class 46.

556,596. Internal Combustion Engines. Kermath Manufacturing Company, Detroit, Mich.
Filed Apr. 20, 1950, Serial No. 596,031. Published Dec. 4, 1951. Class 23.

556,597. Spring Cushion Units, Including Inner Springs, Bed Springs, Mattresses, and Seat Cushions. Comfort Spring Corporation, Baltimore, Md.
Filed Apr. 21, 1950, Serial No. 596,077. Published Dec. 18, 1951. Class 32.

556,598. Spring Cushion Units, Including Inner Springs, Bed Springs, Mattresses, and Seat Cushions. Comfort Spring Corporation, Baltimore, Md.
Filed Apr. 21, 1950, Serial No. 596,078. Published Dec. 18, 1951. Class 32.

556,599. Popped Corn in Both the Natural State and Flavored. The Marjack Company, also known as The Marjack Co., Inc., Washington, D. C.
Filed Apr. 21, 1950, Serial No. 596,107. Published Jan. 1, 1952. Class 46.

556,600. Analgesic Composition. Commercial Solvents Corporation, New York, N. Y.
Filed Apr. 25, 1950, Serial No. 596,265. Published Nov. 6, 1951. Class 18.

556,601. Bakery Products—Namely, Bread. Geo. F. Stuhmer & Company, Brooklyn, N. Y.
Filed Apr. 25, 1950, Serial No. 596,300. Published Jan. 8, 1952. Class 46.

556,602. Watches, Watch Parts, and Watch Movements. Omega Louis Brandt & Frere, S. A., Biel, Switzerland.
Filed Apr. 27, 1950, Serial No. 596,436. Published Nov. 27, 1951. Class 27.

556,603. Simulated Pearls and Simulated Pearl Jewelry for Personal Wear—Namely, Necklaces, Bracelets, Earrings, Clasps, Studs, Scarf Pins, and Finger Rings. Imperial Pearl Syndicate, Inc., Chicago, Ill.
Filed May 1, 1950, Serial No. 596,667. Published Nov. 27, 1951. Class 28.

556,604. Multiple Section Storage Boxes Used for Transporting Materials Such as Cement and Aggregate To Be Mixed, Said Materials To Be Kept Separate During Transportation. Sho-Me, Inc., New York, N. Y.
Filed May 3, 1950, Serial No. 596,811. Published Jan. 8, 1952. Class 2.

556,605. Candy. Fred W. Amend Co., Chicago, Ill.
Filed May 6, 1950, Serial No. 596,966. Published Jan. 1, 1952. Class 46.

556,606. Shoes. Bates Shoe Company, Webster, Mass.
Filed May 9, 1950, Serial No. 597,119. Published Jan. 8, 1952. Class 39.

556,607. Cork Insulated and Canvas Covered Shipping and Storage Cases for Shipping and Storing Packages Containing Frozen Foods. Meese, Inc., Madison, Ind.
Filed May 15, 1950, Serial No. 597,450. Published Jan. 8, 1952. Class 2.

556,608. Bathroom Cabinets Consisting of Under-Lavatory Storage Cabinets, Side Storage Cabinets, Vanity Tables, Open-Shelf Units, Vanity Seats, and Linen Storage Cabinets. Bath Maid, Inc., Andrews, Ind.
Filed May 16, 1950, Serial No. 597,491. Published Jan. 1, 1952. Class 32.

556,609. Bread and Rolls. Hart's Bakery, Inc., Sikeston, Mo.
Filed May 19, 1950, Serial No. 597,752. Published Jan. 8, 1952. Class 46.

556,610. Bulldozers and Scarifiers. William J. Blake, Sandy, Oreg.
Filed May 24, 1950, Serial No. 597,998. Published Jan. 1, 1952. Class 23.

556,611. Shoes of Leather, Fabric, and/or Combinations Thereof for Men, Women, and Children. International Shoe Company, St. Louis, Mo.
Filed May 26, 1950, Serial No. 598,190. Published Jan. 8, 1952. Class 39.

556,612. Optical Frames. Harry M. Greene, doing business as Greene Optical Mfg. Co., Chicago, Ill.
Filed June 1, 1950, Serial No. 598,416. Published Dec. 4, 1951. Class 26.

556,613. Yeast Food Used as a Dough Improver in the Baking Industry. Hachmeister-Inc., Pittsburgh, Pa.
Filed June 2, 1950, Serial No. 598,469. Published Jan. 1, 1952. Class 46.

556,614. Drill Collars. American Hollow Boring Company, Erie, Pa.
Filed June 6, 1950, Serial No. 598,623. Published Nov. 27, 1951. Class 23.

556,615. Drill Collars. American Hollow Boring Company, Erie, Pa.
Filed June 6, 1950, Serial No. 598,624. Published Nov. 6, 1951. Class 23.

556,616. Ceramic Dinnerware. National Silver Company, New York, N. Y.
Filed June 21, 1950, Serial No. 599,524. Published Nov. 27, 1951. Class 30.

556,617. Frozen Orange Juice. Dairy Service Corporation, Washington, D. C.
Filed June 22, 1950, Serial No. 599,557. Published Dec. 4, 1951. Class 46.

556,618. Laundry Fastener or Clip of Metal or a Plastic Material for Holding Closed the Cuffs and Neckbands of Shirts. Harry A. Hosey, doing business as The Old Hickory Sales Company, Old Hickory, Tenn.
Filed June 26, 1950, Serial No. 599,766. Published Jan. 8, 1952. Class 24.

556,619. Men's and Women's Shoes, Made of Leather. The Florsheim Shoe Company, Chicago, Ill.
Filed June 30, 1950, Serial No. 600.041. Published Jan. 8, 1952. Class 39.

556,620. Metal Furniture for Babies and Children—Namely, High Chairs, Rocking Chairs, and Toy Chests. K & G Manufacturing Co., Culver City, Calif.
Filed July 6, 1950, Serial No. 600,287. Published Dec. 25, 1951. Class 32.

556,621. Bacon. Swift & Company, Chicago, Ill., doing business as Iowa Packing Company, Division of Swift & Company, Des Moines, Iowa.
Filed July 6, 1950, Serial No. 600,311. Published Jan. 8, 1952. Class 46.

556,622. Combination Refrigerated Drinking Straw and Stirrer. Donbert Co., Inc., New York, N. Y.
Filed July 11, 1950, Serial No. 600,470. Published Nov. 27, 1951. Class 50.

556,623. Candy. S. S. Kresge Company, Detroit, Mich.
Filed July 17, 1950, Serial No. 600,778. Published Jan. 8, 1952. Class 46.

556,624. Transparent Window Shades. Sonny Claude Voges, doing business under the fictitious firm name of Plastic-View Transparent Shades, Los Angeles, Calif.
Filed July 17, 1950, Serial No. 600,797. Published Jan. 1, 1952. Class 32.

556,625. Motion Picture Film. Robert Yarnall Richie Productions, Inc., New York, N. Y.
Filed July 18, 1950, Serial No. 600,852. Published Dec. 4, 1951. Class 26.

556,626. Potatoes in Their Natural State. Leigh C. Haines & Sons, Fort Fairfield, Maine.
Filed July 19, 1950, Serial No. 600,887. Published Jan. 1, 1952. Class 46.

556,627. Pies Comprising Pastry and Ice Cream in Combination. The Pam Company, Kansas City, Mo.
Filed July 19, 1950, Serial No. 600,907. Published Jan. 1, 1952. Class 46.

556,628. Window Cornices. Kilray Blind Company, Atlanta, Ga.
Filed July 22, 1950, Serial No. 601,107. Published Dec. 25, 1951. Class 32.

556,629. Jewelry for Personal Wear, Not Including Watches—Namely, Neck Chains, Brooches, Lockets, Necklaces, Earrings, Ornamental Pins, Chatelaines, and Bracelets, Other Than Watch Bracelets, All Made of or Plated With Precious Metals. A. Micallef & Co., Inc., Providence, R. I
Filed July 22, 1950, Serial No. 601,113. Published Nov. 27, 1951. Class 28.

556,630. Wrist Watch Bands. Jacques Kreisler Manufacturing Corporation, North Bergen, N. J.
Filed July 26, 1950, Serial No. 601,264. Published Nov. 27, 1951. Class 28.

556,631. Office Desks and Tables, and Structural Parts Thereof. Federal Equipment Company, Washington, D. C.
Filed July 31, 1950, Serial No. 601,494. Published Jan. 1, 1952. Class 32.

556,632. Salad Dressing, Tomato Ketchup, Chili Sauce, Red Pepper Sauce, Mustard, Sandwich Spread, Mayonnaise, Chili Con Carne, and Canned Tomato Juice. Hirsch Bros. & Co. Inc., Louisville, Ky.
Filed Aug. 3, 1950, Serial No. 601,674. Published Jan. 1, 1952. Class 46.

556,633. Prophylactics. James Otto Covington, doing business as Covington Sales Company, Nashville, Tenn.
Filed Aug. 4, 1950, Serial No. 601,714. Published Dec. 25, 1951. Class 44.

556,634. Refrigeration Packaging Products — Namely, Sealing Tape. International Harvester Company, Chicago, Ill.
Filed Aug. 5, 1950, Serial No. 601,793. Published Jan. 1, 1952. Class 5.

556,635. Refrigeration Packaging Products — Namely, Sealing Tape. International Harvester Company, Chicago, Ill.
Filed Aug. 5, 1950, Serial No. 601,796. Published Jan. 1, 1952. Class 5.

556,636. Cocktail Tables, Coffee Tables, End Tables, Lamp Tables, Step Tables, Corner Tables, Bookcases, Cabinets, Dinette Tables, Chairs, Desks, Sofas, Love-Seats, and Foot Stools. Founders Furniture Company, Pleasant Garden, N. C.
Filed Aug. 8, 1950, Serial No. 601,898. Published Dec. 25, 1951. Class 32.

556,637. Fresh Eggs. American Stores Company, Philadelphia, Pa.
Filed Aug. 10, 1950, Serial No. 602,015. Published Jan. 8, 1952. Class 46.

556,638. Laminated Metallic Backings for Artificial Teeth. The Columbus Dental Manufacturing Co., Columbus, Ohio.
Filed Aug. 18, 1950, Serial No. 602,371. Published Dec. 25, 1951. Class 44.

556,639. Cements for General Use as Adhesive With Stencil Sheets and in Stencil Duplication. A. B. Dick Company, Niles, Ill.
Filed Aug. 18, 1950, Serial No. 602,376. Published Dec. 25, 1951. Class 5.

556,640. Venetian Blinds. Carey-McFall Company, Philadelphia, Pa.
Filed Aug. 21, 1950, Serial No. 602,492. Published Dec. 25, 1951. Class 32.

556,641. Stringed Instrument in the Nature of a Violin. Lawrence R. Trommer, Washington, D. C.
Filed Aug. 22, 1950, Serial No. 602,578. Published Jan. 1, 1952. Class 36.

556,642. Canned Orange Juice for Food Purposes. R. B. Wurgaft, doing business as California Citrus Processors, Anaheim, Calif.
Filed Aug. 22, 1950, Serial No. 602,590. Published Jan. 1, 1952. Class 46.

556,643. Canvas Reversible Safety Shoes, for Industrial Use by Both Men and Women. Bellerose Products Co., Manhasset, N. Y.
Filed Aug. 23, 1950, Serial No. 602,594. Published Jan. 8, 1952. Class 39.

556,644. Binoculars, Field Glasses, and Opera or Theater Glasses. Bert Friedberg, doing business under the firm name and style of Bert Friedberg & Co., San Francisco, Calif.
Filed Aug. 28, 1950, Serial No. 602,829. Published Nov. 27, 1951. Class 26.

556,645. Binoculars, Field Glasses, and Opera or Theater Glasses. Bert Friedberg, doing business under the firm name and style of Bert Friedberg & Co., San Francisco, Calif.
Filed Aug. 28, 1950, Serial No. 602,830. Published Dec. 4, 1951. Class 26.

556,646. Binoculars, Field Glasses, and Opera or Theater Glasses. Bert Friedberg, doing business under the firm name and style of Bert Friedberg & Co., San Francisco, Calif.
Filed Aug. 28, 1950, Serial No. 602,831. Published Nov. 27, 1951. Class 26.

556,647. Plastic Filters or Sunshade Filters for Covering Windows, Windshields, and the Like. Filterzone Auto-Vision Co., Brooklyn, N. Y.
Filed Sept. 6, 1950, Serial No. 603,186. Published Dec. 4, 1951. Class 26.

556,648. Ladies', Misses', and Girls' Suits, Dresses, Skirts, Etc. Julius Garfinckel & Co., Incorporated, Washington, D. C.
Filed Sept. 6, 1950, Serial No. 603,189. Published Jan. 8, 1952. Class 39.

556,649. Watches, Clocks, Watch Movements, Watch Dials, Watch Bridges, and Watch Ratchet Wheels. Rodana A. G., Grenchen, Switzerland.
Filed Sept. 8, 1950, Serial No. 603,309. Published Nov. 27, 1951. Class 27.

556,650. Rodent Poison. d-Con Company, a Division of United Enterprises, Inc., Chicago, Ill., assignor, by mesne assignments, to D-Con, Inc., Chicago, Ill., a corporation of Illinois.
Filed Sept. 15, 1950, Serial No. 603,577. Published July 3, 1951. Class 6.

556,651. Canisters Having Metal Covers and Body Portions for Use in Storing Crackers, Cookies, Pretzels, Popcorn, Sugar, Potato Chips, Salted Nuts, Breakfast Food, Salt, and the Like. James H. Young, doing business as J. H. Young Company, Pittsburgh, Pa.
Filed Sept. 16, 1950, Serial No. 603,655. Published Jan. 8, 1952. Class 2.

556,652. Automatically-Operated Sifters and Strainers for Paints, Lacquers, Enamels, Foundry Sand, and the Like. Foundry Supplies Manufacturing Co., Chicago, Ill.
Filed Sept. 18, 1950, Serial No. 603,672. Published Dec. 25, 1951. Class 23.

556,653. Automatically Operated Vibrators for Foundry Use and the Like. Foundry Supplies Manufacturing Co., Chicago, Ill.
Filed Sept. 18, 1950, Serial No. 603,673. Published Dec. 25, 1951. Class 23.

556,654. Slipper Sox for Men, Women, and Children Made of Leather and Knitted Fabrics Combined. Fairfield Glove Co., Fairfield, Iowa.
Filed Sept. 23, 1950, Serial No. 603,917. Published Jan. 8, 1952. Class 39.

556,655. Raisins. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif.
Filed Sept. 25, 1950, Serial No. 603,963. Published Jan. 1, 1952. Class 46.

556,656. Potatoes in Their Natural State. W. E. McGillvray, Stockton, Calif.
Filed Sept. 29, 1950, Serial No. 604,209. Published July 17, 1951. Class 46.

556,657. Canned Ham. Bjarne Eckhoff's Konservesfabrik A/S, Odense, Denmark.
Filed Oct. 3, 1950, Serial No. 604,353. Published Jan. 1, 1952. Class 46.

556,658. Icing in Solid Form for Cakes and Cookies. Curt Michaelis, Union City, N. J.; Beatrice Y. Michaelis and Aaron Lasser, executors of said Curt Michaelis, deceased, assignors to Basic Foods, Inc., a corporation of New York.
Filed Oct. 3, 1950, Serial No. 604,377. Published Dec. 4, 1951. Class 46.

556,659. Pipe Tobacco and Cigarettes. Rum and Maple Tobacco Corporation, New York, N. Y.
Filed Oct. 4, 1950, Serial No. 604,449. Published Jan. 1, 1952. Class 17.

556,660. Liquid Polishing and Cleaning Compound for Automobiles and Other Lacquered Veneers. Western Tire Auto Stores, Inc., Chicago, Ill.
Filed Oct. 5, 1950, Serial No. 604,503. Published Jan. 1, 1952. Class 4.

556,661. Concrete Block Making Machines and Parts Thereof. Stearns Manufacturing Company, Inc., Adrian, Mich.
Filed Oct. 7, 1950, Serial No. 604,603. Published Dec. 25, 1951. Class 23.

556,662. Floor Toys in the Nature of Cube Blocks and Interlocking Blocks and Pull Toys in the Nature of Walking Dogs and Walking Ducks Which Are Adapted To Be Pulled by Children. Noma Electric Corporation, New York, N. Y.
Filed Oct. 9, 1950, Serial No. 604,657. Published Jan. 8, 1952. Class 22.

556,663. Pop-Up Blocks, Mechanical Skiing Figure Toy, Interlocking Type Blocks, and Wheeled Pull Toys in the Form of a Goose or Other Fowl. Noma Electric Corporation, New York, N. Y.
Filed Oct. 9, 1950, Serial No. 604,658. Published Jan. 8, 1952. Class 22.

556,664. Venetian Blinds. Wood Products Manufacturing Co., Rocky Mount, N. C.
Filed Oct. 10, 1950, Serial No. 604,710. Published Jan. 1, 1952. Class 32.

556,665. Infants', Children's, Misses', and Little Gents' Cowboy Boots and Felt Slippers. A. J. Beford Shoe, Incorporated, Lititz, Pa.
Filed Oct. 11, 1950, Serial No. 604,715. Published Jan. 8, 1952. Class 39.

556,666. Women's Shoes Made of Leather, Rubber, Canvas, and/or Any Combinations Thereof. Strawbridge & Clothier, Philadelphia, Pa.
Filed Oct. 13, 1950, Serial No. 604,866. Published Dec. 11, 1951. Class 39.

556,667. Men's and Women's Hosiery. Arthur Murray Enterprises, Inc., New York, N. Y.
Filed Oct. 16, 1950, Serial No. 604,986. Published Jan. 1, 1952. Class 39.

556,668. Raw Unshelled Peanuts. The Suffolk Peanut Company, Suffolk, Va.
Filed Oct. 24, 1950, Serial No. 605,380. Published Jan. 8, 1952. Class 46.

556,669. Chocolate Candy. Lindt & Sprungli, Inc., New York, N. Y.
Filed Nov. 1, 1950, Serial No. 605,751. Published Dec. 11, 1951. Class 46.

556,670. Alimentary Pastes—Namely, Noodles. Mega Macaroni Company, Harrisburg, Pa.
Filed Nov. 3, 1950, Serial No. 605,865. Published Dec. 25, 1951. Class 46.

556,671. Men's, Women's, and Children's Shoes of Leather, Suede, Canvas, Fabric or Composition, and Combinations Thereof. Avon Shoe Co., Inc., Brooklyn, N. Y.
Filed Nov. 7, 1950, Serial No. 605,981. Published Dec. 4, 1951. Class 39.

556,672. Perfumes and Toilet Water. Lanvin Parfums, Inc., New York, N. Y.
Filed Nov. 7, 1950, Serial No. 606,020. Published Dec. 18, 1951. Class 51.

556,673. Receptacle for Holding and Dispensing Paper Towels and Wax Paper. Garner & Co., New York, N. Y.
Filed Nov. 10, 1950, Serial No. 606,215. Published Jan. 1, 1952. Class 2.

556,674. Candy. Norris Inc., Atlanta, Ga.
Filed Nov. 10, 1950, Serial No. 606,233. Published Dec. 11, 1951. Class 46.

556,675. Soap and Soap Powder. Daggett & Ramsdell, Inc., Newark, N. J.
Filed Nov. 18, 1950, Serial No. 606,598. Published Jan. 1, 1952. Class 52.

556,676. Film Strips, Motion Picture Films, and Still Picture Films. Orville C. Goldner, Morris, N. Y.
Filed Nov. 22, 1950, Serial No. 606,771. Published Dec. 4, 1951. Class 26.

556,677. Anti-Oxidant in Powder Form for Use in Fresh Fruits in Preparation for Canning and/or Freezing To Protect Color and Flavor Thereof. H. G. Walter, doing business as The Scorb Company, Kansas City, Kans.
Filed Nov. 24, 1950, Serial No. 606,915. Published Jan. 1, 1952. Class 46.

556,678. Shoe Shine Machines. Samuel Sacks, doing business as Uneeda Shine Machine Company, New York, N. Y.
Filed Nov. 29, 1950, Serial No. 607,099. Published Oct. 23, 1951. Class 23.

556,679. Shoes for Men and Women. Arch-Aid Shoe Shop, Inc., New York, N. Y.
Filed Dec. 2, 1950, Serial No. 607,210. Published Jan. 8, 1952. Class 39.

556,680. Meat and Meat Products—Namely, Beef, Veal, and Lamb Carcasses and Cuts, Pork Feet, Pork Hocks, Chopped Pork, Pork Tongue, Pork Shoulder Picnics, Pork Loin Roll, and Luncheon Meat. Armour and Company, doing business under the trade style Jacob E. Decker & Sons, Chicago, Ill.
Filed Dec. 2, 1950, Serial No. 607,211. Published Dec. 11, 1951. Class 46.

556,681. Dental, Medical, and Surgical Appliances Comprising Dental Fountain Cuspidors, Equipment Stands, Sterilizers, and Dental Engines and Foot Operated Controllers Therefor Sold as a Unit. Ritter Company, Inc., Rochester, N. Y.
Filed Dec. 9, 1950, Serial No. 607,519. Published Dec. 25, 1951. Class 44.

556,682. Record Card Filing Tray. The Globe-Wernicke Co., Norwood, Ohio.
Filed Dec. 14, 1950, Serial No. 607,669. Published Sept. 4, 1951. Class 32.

556,683. Wines and Champagnes. Petri Wine Company, also doing business as Angelo Petri Vineyards, San Francisco, Calif.
Filed Dec. 18, 1950, Serial No. 607,827. Published Nov. 13, 1951. Class 47.

556,684. Canned Clams and Canned Abalone. Walun Trading Company, San Francisco, Calif.
Filed Dec. 18, 1950, Serial No. 607,833. Published Dec. 11, 1951. Class 46.

556,685. Corrugated Paper Boxes. Shelton Manufacturing Co., Inc., Long Island City, N. Y.
Filed Dec. 20, 1950, Serial No. 607,904. Published Jan. 8, 1952. Class 2.

556,686. Beef Steaks Put up and Sold in Package Form. Stockyards Packing Co. Inc., Chicago, Ill.
Filed Dec. 23, 1950, Serial No. 608,049. Published Jan. 8, 1952. Class 46.

556,687. Lithographic Plates. A. B. Dick Company, Niles, Ill.
Filed Jan. 5, 1951, Serial No. 608,411. Published Nov. 27, 1951. Class 50.

556,688. Cigarettes. J. A. Pattreiouex (Overseas) Limited, London and Westminster, London, England.
Filed Jan. 6, 1951, Serial No. 608,472. Published Dec. 18, 1951. Class 17.

556,689. Shoes Made Substantially of Leather, Fabric or Rubber or Combinations Thereof, for Women and Children. Trimfoot Company, Farmington, Mo.
Filed Jan. 16, 1951, Serial No. 608,839. Published Jan. 8, 1952. Class 39.

556,690. Automatic Sprinkler Systems for Fire Protection, Etc. "Automatic" Sprinkler Corporation of America, Youngstown, Ohio.
Filed Jan. 17, 1951, Serial No. 608,847. Published Jan. 1, 1952. Class 13.

556,691. Automatic Sprinkler Systems for Fire Protection, and Parts Thereof, Etc. "Automatic" Sprinkler Corporation of America, Youngstown, Ohio.
Filed Jan. 17, 1951, Serial No. 608,855. Published Jan. 1, 1952. Class 13.

556,692. Lounge Chairs, Lamp Tables, Cocktail Tables, Etc. Grand Rapids Chair Company, Grand Rapids, Mich.
Filed Jan. 19, 1951, Serial No. 608,989. Published Jan. 1, 1952. Class 32.

556,693. Screw Connections and Parts of Screw Connections—Namely, Screws, Bolts, Studs, Nuts, Thread Inserts, and Thread Bushings. Heli-Coil Corporation, Danbury, Conn.
Filed Jan. 19, 1951, Serial No. 608,990. Published Dec. 25, 1951. Class 13.

556,694. Display Stands for Supporting Cases for Eyeglasses in a Pilfer-Proof Manner. Willson Products, Inc., Reading, Pa.
Filed Jan. 20, 1951, Serial No. 609,064. Published Jan. 1, 1952. Class 32.

556,695. Canned Fish and Canned Shellfish. Westgate-Sun Harbor Company, San Diego and Monterey, Calif.
Filed Jan. 23, 1951, Serial No. 609,153. Published Jan. 1, 1952. Class 46.

556,696. Mixing Ingredient To Be Mixed in Livestock Feed, the Primary Ingredients Being Concentrated Malt Sugar Syrup, Dried Corn Distillers Solubles, Anise Oil, Cocoa and Cocoa Shell Meal (Theobromine Extracted). Carlos M. Bryant, doing business under the firm name and style of Sweetall Manufacturing Company, Williamstown, N. Y.
Filed Jan. 24, 1951, Serial No. 609,164. Published Dec. 25, 1951. Class 46.

556,697. Anti Skid Plates, for Use in Shipping Heavy Crated Items Such as Farm Machinery, Trucks, Armaments, and Large Motors. Northern Metal Products Company, Chicago, Ill.
Filed Jan. 30, 1951, Serial No. 609,411. Published Nov. 27, 1951. Class 50.

556,698. Watches and Clocks. Ollendorff Watch Co. Inc., New York, N. Y.
Filed Jan. 30, 1951, Serial No. 609,415. Published Nov. 13, 1951. Class 27.

556,699. Macaroni, Spaghetti, and Egg Noodles. The De Martini Macaroni Co., Inc., Brooklyn, N. Y.
Filed Feb. 2, 1951, Serial No. 609,539. Published Jan. 1, 1952. Class 46.

556,700. Watch Bands Made of Silver, Gold, Gold-Filled, Brass, Stainless Steel, Chrome, Nickel, and Nickel-Silver. Manco Watch Strap Co., Inc., New York, N. Y.
Filed Feb. 6, 1951, Serial No. 609,688. Published Nov. 27, 1951. Class 28.

556,701. Diethylstilbestrol Implantation Pellets for Veterinary Use. Wyeth Incorporated, Philadelphia, Pa.
Filed Feb. 7, 1951, Serial No. 609,754. Published Nov. 6, 1951. Class 18.

556,702. Ophthalmic Solution. Commercial Solvents Corporation, New York, N. Y.
Filed Feb. 10, 1951, Serial No. 609,909. Published Nov. 13, 1951. Class 18.

556,703. Blood Plasma Substitute. Commercial Solvents Corporation, New York, N. Y.
Filed Feb. 10, 1951, Serial No. 609,910. Published Nov. 13, 1951. Class 18.

556,704. Blood Plasma Substitute. Commercial Solvents Corporation, New York, N. Y.
Filed Feb. 10, 1951, Serial No. 609,912. Published Nov. 13, 1951. Class 18.

556,705. Analgesic Preparation. Winthrop-Stearns Inc., New York, N. Y.
Filed Feb. 14, 1951, Serial No. 610,112. Published Nov. 13, 1951. Class 18.

556,706. Organic Iodine Compound Used as Radiopaque Medium for X-ray Examination. Winthrop-Stearns Inc., New York, N. Y.
Filed Feb. 14, 1951, Serial No. 610,113. Published Nov. 13, 1951. Class 18.

556,707. Chairs. Douglas Furniture Corporation, Chicago, Ill.
Filed Feb. 15, 1951, Serial No. 610,121. Published Jan. 1, 1952. Class 32.

556,708. Women's Suits, Coats, and Dresses. Phil Jacobs Co., Inc., Kansas City, Mo.
Filed Feb. 19, 1951, Serial No. 610,275. Published Jan. 8, 1952. Class 39.

556,709. Shoes, Slippers, and Moccasins of Leather, Cloth, Plastic, Felt, or Combinations Thereof for Women. Midwest Footwear, Inc., Sullivan, Mo.
Filed Feb. 19, 1951, Serial No. 610,288. Published Jan. 8, 1952. Class 39.

556,710. Blend of Soybean and Cottonseed Oils for Food Purposes. The Procter & Gamble Company, Cincinnati, Ohio.
Filed Feb. 17, 1951, Serial No. 610,354. Published Jan. 1, 1952. Class 46.

556,711. Racks for Books, Racks for Magazines, and Racks for Papers. Samuel S. Schiffer, New York, N. Y.
Filed Feb. 21, 1951, Serial No. 610,379. Published Jan. 1, 1952. Class 32.

556,712. Merchandise Bags and Merchandise Envelopes Made of Paper. Wolf Brothers, Inc., Philadelphia, Pa.
Filed Feb. 23, 1951, Serial No. 610,483. Published Jan. 8, 1952. Class 2.

556,713. Mattress Side Walls Also Known as Borders. The Ohio Mattress Company, Cleveland, Ohio.
Filed Feb. 28, 1951, Serial No. 610,629. Published Jan. 1, 1952. Class 32.

556,714. Felt Base Ornamental Surfaced Wall-Covering, Floor Covering, and Counter Topping. Bird & Son, Inc., East Walpole, Mass.
Filed Mar. 5, 1951, Serial No. 610,818. Published Jan. 1, 1952. Class 20.

556,715. Frozen Watermelon Confection on a Stick. Hugh A. Priddy, Wichita Falls, Tex.
Filed Mar. 12, 1951, Serial No. 611,195. Published Jan. 1, 1952. Class 46.

556,716. Women's Hosiery. Holeproof Hosiery Co., Milwaukee, Wis.
Filed Mar. 14, 1951, Serial No. 611,276. Published Jan. 1, 1952. Class 39.

556,717. Insulated Vacuum Bottle. Vacuum Products Corporation, Newark, N. J.
Filed Mar. 14, 1951, Serial No. 611,318. Published Jan. 8, 1952. Class 2.

556,718. Cookies. Zion Industries, Inc., Zion, Ill.
Filed Mar. 14, 1951, Serial No. 611,326. Published Dec. 4, 1951. Class 46.

556,719. Men's and Women's Suits and Coats. Ellay Stores, Inc., New York, N. Y.
Filed Mar. 19, 1951, Serial No. 611,507. Published Jan. 8, 1952. Class 39.

556,720. Light-Weight Rubber Shoes for Men and Boys. Mishawaka Rubber and Woolen Manufacturing Company, Mishawaka, Ind.
Filed Mar. 19, 1951, Serial No. 611,527. Published Jan. 8, 1952. Class 39.

556,721. Canned Dog Food. Calo Dog Food Company, Inc., Oakland, Calif.
Filed Feb. 26, 1951, Serial No. 611,590. Published Jan. 1, 1952. Class 46.

556,722. Automatic Deodorizers—Namely, Drip Dispensers for Urinals and Toilets; Liquid Soap Containers Made of Glass and Metal; Etc. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 22, 1951, Serial No. 611,671. Published Jan. 1, 1952. Class 13.

556,723. Women's Shoes. Craddock-Terry Shoe Corporation, Lynchburg, Va.
Filed Mar. 26, 1951, Serial No. 611,770. Published Jan. 8, 1952. Class 39.

556,724. Women's Shoes Made of Leather, Fabric, Synthetic Materials, and Combinations Thereof. Royce Shoe Corporation, Boston, Mass.
Filed Mar. 27, 1951, Serial No. 611,859. Published Jan. 8, 1952. Class 39.

556,725. Chemicals for Poisoning or Killing Rats. Research Products Company, Kansas City, Mo.
Filed Mar. 31, 1951, Serial No. 612,088. Published Jan. 1, 1952. Class 6.

556,726. Lecture Stands. Erwin Van Allen, Peoria, Ill.
Filed Apr. 5, 1951, Serial No. 612,286. Published Jan. 1, 1952. Class 32.

556,727. Shoe Polish and Dressing. Harri Hoffmann Co., Milwaukee, Wis.
Filed Apr. 6, 1951, Serial No. 612,325. Published Jan. 1, 1952. Class 4.

556,728. Pharmaceutical Preparation for Use in the Treatment of Burns and Lesions, Etc. Hynson, Westcott & Dunning, Incorporated, Baltimore, Md.
Filed Apr. 12, 1951, Serial No. 612,546. Published Nov. 27, 1951. Class 18.

556,729. Children's, Ladies', and Misses' Anklets and Hosiery. Shreve & Adams, Inc., New York, N. Y.
Filed Apr. 12, 1951, Serial No. 612,564. Published Jan. 1, 1952. Class 39.

556,730. Seasoning Agent in Powder Form for Use in Connection With a Salt-Free Diet. Sterwin Chemicals Inc., New York, N. Y.
Filed Apr. 13, 1951, Serial No. 612,630. Published Dec. 25, 1951. Class 46.

556,731. Topping To Be Applied to Ice Cream, and for Use in Flavoring Milk. F & F Laboratories, Inc., Chicago, Ill.
Filed Apr. 16, 1951, Serial No. 612,685. Published Dec. 25, 1951. Class 46.

556,732. Watches; Chronographs—Namely, a Combination of Timepiece and Stop Watch in One Instrument; Stop Watches, Watch Movements, Chronograph Movements, Stop Watch Movements, Watch Cases, Chronograph Cases, and Stop Watch Cases. Pierce Watch Company, Inc., New York, N. Y.
Filed Apr. 17, 1951, Serial No. 612,758. Published Jan. 8, 1952. Class 27.

556,733. Blank Sheets for Bookkeeping Records; Paper Sheet Packs for Filling Loose Leaf Binders; Blank Sheets of Writing Paper, and Paper Sheets for Bound Blank Books. National Blank Book Company, Holyoke, Mass.
Filed Apr. 18, 1951, Serial No. 612,817. Published Jan. 8, 1952. Class 37.

556,734. Plastic-Coated Tubular Furniture — Namely, Kitchen and Dinette Tables, Chairs, and Sets; Juvenile Size Tables, Chairs, and Sets; Club, Lounge, and Barrel Back Chairs; Sectional Lounge Settees; Rollaway Tables; and Bar, Kitchen, and Household Stools. Daystrom, Incorporated, Elizabeth, N. J.
Filed Apr. 19, 1951, Serial No. 612,850. Published Jan. 1, 1952. Class 32.

556,735. Women's and Misses' Coats and Suits of Woolen, Silk, Rayon, and Cotton Fabrics. Leslie Fay Fashions, Inc., New York, N. Y.
Filed Apr. 20, 1951, Serial No. 612,901. Published Jan. 8, 1952. Class 39.

556,736. CONSOLIDATED CERTIFICATE. National Silver Company, New York, N. Y.
Certain Articles of Hollowware Wholly Made of Base Metal or Having a Base of Copper, Etc. Filed Apr. 25, 1951, Serial No. 613,142. Published Nov. 13, 1951. Class 13.
Electric Percolators and Electric Snack Servers. Filed Apr. 25, 1951, Serial No. 613,143. Published Dec. 4, 1951. Class 21.

556,737. Shoe Counters. Endicott Johnson Corporation, Endicott, N. Y.
Filed Apr. 26, 1951, Serial No. 613,165. Published Jan. 8, 1952. Class 39.

556,738. Cigarettes. Stephano Brothers, Philadelphia, Pa.
Filed Apr. 27, 1951, Serial No. 613,246. Published Dec. 25, 1951. Class 17.

556,739. Chromed Steel Tubular, Plastic and Wooden Furniture, Etc. Daystrom, Incorporated, Elizabeth, N. J.
Filed May 2, 1951, Serial No. 613,401. Published Jan. 1, 1952. Class 32.

556,740. Knitted Sweaters, Jackets, and Sport Shirts for Men, Women, and Children. New York Knitting Mills, Inc., New York, N. Y.
Filed May 3, 1951, Serial No. 613,472. Published Jan. 1, 1952. Class 39.

556,741. Hosiery for Women and Girls. Spurgeon Hosiery Corporation, Philadelphia, Pa.
Filed May 7, 1951, Serial No. 613,613. Published Jan. 1, 1952. Class 39.

556,742. Cheese. L. J. Tupper, doing business under the name and style of Mapleton Cheese Factory, Oconomowoc, Wis.
Filed May 7, 1951, Serial No. 613,617. Published Jan. 8, 1952. Class 46.

556,743. Fresh Vegetables. Harden Farms, Inc., Salinas, Calif.
Filed May 8, 1951, Serial No. 613,637. Published Dec. 18, 1951. Class 46.

556,744. Fresh Vegetables. Harden Farms, Inc., Salinas, Calif.
Filed May 8, 1951, Serial No. 613,638. Published Dec. 18, 1951. Class 46.

556,745. Men's and Boys' Pajamas. Lubin-Weeker Co., Inc., New York, N. Y.
Filed May 10, 1951, Serial No. 613,716. Published Jan. 1, 1952. Class 39.

556,746. Lounge Chairs. Spiegel, Inc., Chicago, Ill.
Filed May 10, 1951, Serial No. 613,737. Published Dec. 25, 1951. Class 32.

556,747. Metal Medicine Cabinets. Stylon Corporation, Boston, Mass.
Filed May 10, 1951, Serial No. 613,743. Published Dec. 25, 1951. Class 32.

556,748. Linoleum. Armstrong Cork Company, Lancaster, Pa.
Filed May 12, 1951, Serial No. 613,798. Published Dec. 25, 1951. Class 20.

556,749. Linoleum. Armstrong Cork Company, Lancaster, Pa.
Filed May 12, 1951, Serial No. 613,799. Published Dec. 25, 1951. Class 20.

556,750. Women's Dresses. Wayne L. Chapman, Dallas, Tex.
Filed May 15, 1951, Serial No. 613,867. Published Jan. 1, 1952. Class 39.

556,751. Platens for Typewriters and Office Machines. Ames Supply Company, Chicago, Ill.
Filed May 17, 1951, Serial No. 613,963. Published Dec. 25, 1951. Class 23.

556,752. Fresh Avocados. Calavo Growers of California, Los Angeles, Calif.
Filed May 18, 1951, Serial No. 614,038. Published Dec. 18, 1951. Class 46.

556,753. Food Sauces for Use on Sea Food, Meat, Spaghetti, and Omelets. Pietro Di Pietro, New York, N. Y.
Filed May 18, 1951, Serial No. 614,043. Published Jan. 8, 1952. Class 46.

556,754. Olive Oil and Fresh Grapes. M. Bambacigno, doing business as Modesto Olive Oil Company, Modesto, Calif.
Filed May 21, 1951, Serial No. 614,128. Published Dec. 11, 1951. Class 46.

556,755. Vanilla Concentrates, Emulsifiers and Stabilizers, Etc. R. G. Moench & Co., Inc., New York, N. Y.
Filed May 25, 1951, Serial No. 614,361. Published Dec. 18, 1951. Class 46.

556,756. Spinning Tops of the Bandalore Type. Domingo R. Bragado, doing business as Jewel Filipino Spinning Top Co., Brooklyn, N. Y.
Filed May 26, 1951, Serial No. 614,399. Published Jan. 8, 1952. Class 22.

556,757. Liquid Air Purifier and Deodorant. The Great Atlantic and Pacific Tea Company, New York, N. Y.
Filed June 1, 1951, Serial No. 614,622. Published Jan. 1, 1952. Class 6.

556,758. Fire Extinguishing Liquid. The Buckeye Soda Company, Painesville, Ohio.
Filed June 2, 1951, Serial No. 614,647. Published Jan. 1, 1952. Class 6.

556,759. Candy. Stephen F. Whitman & Son, Inc., Philadelphia, Pa.
Filed June 5, 1951, Serial No. 614,799. Published Dec. 18, 1951. Class 46.

556,760. Material for Degreening Citrus Fruits and for Controlling Decay in Fresh Fruits and Vegetables by Applying It to the Surface Thereof. Skinner Machinery Company, Inc., Dunedin, Fla.
Filed June 7, 1951, Serial No. 614,902. Published Jan. 1, 1952. Class 6.

556,761. Bread, Pies, Doughnuts, Sweet Rolls, and Pastries. Mrizek Bakers, Inc., Kansas City, Mo.
Filed June 8, 1951, Serial No. 614,953. Published Dec. 18, 1951. Class 46.

556,762. Metal Corn Cribs and Grain Bins. Clayton & Lambert Manufacturing Company, Louisville, Ky.
Filed June 14, 1951, Serial No. 615,157. Published Jan. 8, 1952. Class 2.

556,763. Emulsifier for Use in the Manufacture of Dough Products Such as Bread. Research Products Company, Kansas City, Mo.
Filed June 14, 1951, Serial No. 615,192. Published Jan. 1, 1952. Class 46.

556,764. Insecticide. Shell Chemical Corporation, New York, N. Y.
Filed June 15, 1951, Serial No. 615,251. Published Jan. 8, 1952. Class 6.

556,765. Puppets. Sarah Elizabeth Sellers, doing business as The Puppet House, Cincinnati, Ohio.
Filed June 14, 1951, Serial No. 615,263. Published Jan. 8, 1952. Class 22.

556,766. Fresh Oranges. Pickfair Associates, Fullerton, Calif.
Filed June 16, 1951, Serial No. 615,286. Published Dec. 25, 1951. Class 46.

556,767. Rodenticide. Tobal Products Inc., Chicago, Ill.
Filed June 23, 1951, Serial No. 615,614. Published Jan. 8, 1952. Class 6.

556,768. Supplementary Synthetic Tanning. Reilly-Whiteman-Walton Company, Conshohocken, Pa.
Filed June 26, 1951, Serial No. 615,721. Published Jan. 8, 1952. Class 6.

556,769. Olives. Safie Brothers, New Baltimore, Mich.
Filed June 26, 1951, Serial No. 615,726. Published Jan. 8, 1952. Class 46.

556,770. Cabinet Hardware—Namely, Door Knobs and Drawer Knobs. Washington Steel Products, Inc., Tacoma, Wash.
Filed June 30, 1951, Serial No. 615,962. Published Jan. 1, 1952. Class 13.

556,771. Ophthalmic and Protection Lenses. Willson Products, Inc., Reading, Pa.
Filed July 31, 1951, Serial No. 617,173. Published Nov. 27, 1951. Class 26.

556,772. Plates of Tungsten Carbide and Cutlery Steel. Aktiebolaget Bofors, Bofors, Sweden.
Filed July 11, 1951, Serial No. 617,594. Published Jan. 8, 1952. Class 14.

556,773. All Steel Used in the Production of Metal Working Tools and Dies. Allegheny Ludlum Steel Corporation, Pittsburgh, Pa.
Filed Aug. 18, 1951, Serial No. 617,832. Published Jan. 8, 1952. Class 14.

556,774. Marine Anchors. Northill Company, Inc., Los Angeles, Calif.
Filed Sept. 4, 1951, Serial No. 618,364. Published Jan. 8, 1952. Class 14.

556,775. Baseball Gloves. Nocona Leather Goods Company, Nocona, Tex.
Filed Sept. 17, 1951, Serial No. 618,896. Published Jan. 1, 1952. Class 22.

Service Marks

556,776. Counseling Service to Manufacturers in the Design, Manufacture, and Sales of Products of Said Manufacturers. Steven F. Evelyn, doing business as Enpro Engineered Products, Springfield, Mass.
Filed Aug. 16, 1948, Serial No. 563,455. Published Jan. 1, 1952. Class 100.

556,777. Entertainment Service in the Nature of a Television Broadcast Program Consisting of Animated Cartoons and Associated Cinema Presentation With Accompanying Sound Track. Jack Strausberg, Chicago, Ill.
Filed Feb. 24, 1950, Serial No. 593,023. Published Jan. 1, 1952. Class 107.

556,778. Processing Photographic Film—Namely, Developing, Printing, Enlarging, and Retouching. Fo-Jo Studio, De Soto, Mo.
Filed Mar. 27, 1950, Serial No. 594,708. Published Jan. 1, 1952. Class 106.

556,779. Making Loans and Arranging for Loans Through Banks and Other Financial Institutions for Building Construction, Remodeling, and Repair. Ward Lumber Company, Aurora, Ill.
Filed Mar. 28, 1950, Serial No. 594,821. Published Jan. 1, 1952. Class 102.

556,780. Entertainment Service Rendered Through the Medium of a Series of Dramatic Radio Broadcast Programs. Himan Brown, New York, N. Y.
Filed May 6, 1950, Serial No. 596,976. Published Jan. 1, 1952. Class 107.

556,781. Entertainment Service in the Nature of Minstrel Shows and Novelty Acts. Capitol Amusements, Inc., Erwin, Tenn.
Filed Mar. 21, 1951, Serial No. 611,601. Published Jan. 1, 1952. Class 107.

Collective Mark

556,782. Plywood. Douglas Fir Plywood Association, Tacoma, Wash.
Filed Nov. 2, 1950, Serial No. 605,784. Published Dec. 25, 1951. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

556,783. (Class 52. Detergents and Soaps.) Fischer Industries, Inc., Cincinnati, Ohio. Original filed, act of 1920, May 22, 1946; amended to application under act of 1946, Principal Register, Sept. 20, 1948; amended to Supplemental Register, Jan. 2, 1952, Serial No. 502,605.

SOYASOPE

For Soap Concentrate for Household and Toilet Uses.
Claims use since Feb. 1, 1936.

556,784. (Class 39. Clothing.) Edward E. Tanner, Jr., Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 17, 1947; amended to application, Supplemental Register, Aug. 22, 1951, Serial No. 534,836.

STADIUM SACK

For Sack Type Garment Coverings for Legs and Torsos.
Claims use since Sept. 12, 1947.

556,785. (Class 11. Inks and Inking Materials.) Nate Schulman, doing business as Schulman Enterprises, Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 15, 1948; amended to application, Supplemental Register, Mar. 10, 1950, Serial No. 567,049.



For Writing Fluid.
Claims use since Sept. 14, 1948.

556,786. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Mojonnier Bros. Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 23, 1948; amended to application, Supplemental Register, May 19, 1951, Serial No. 571,036.

LO-TEMP

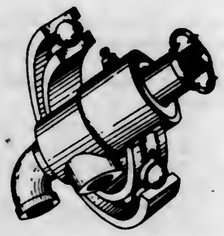
For Evaporators Used for Concentrating Solutions Under Vacuum, Using a Refrigerating Cycle Wherein a Compressed Refrigerant Gas Having a Relatively High Temperature Is Employed To Supply the Heat To Be Imparted to the Solution Undergoing Evaporation and Thereafter Using the Water Vapor Given Off During Said Evaporation Step in Heat Exchange Relationship With Said Refrigerant To Evaporate Said Refrigerant and Condense Said Water Vapor.
Claims use since June 1, 1948.

556,787. (Class 15. Oils and Greases.) United States Aviex Company, Niles, Mich. Original filed, act of 1946, Principal Register, Mar. 8, 1949; amended to application, Supplemental Register, June 13, 1950, Serial No. 575,103.



The drawing is lined for red.
For Additive for Fuel Oils That Absorbs Condensation and Aids Combustion.
Claims use since Sept. 11, 1946.

556,788. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Perfecting Service Company, Chicago, Ill., and Charlotte, N. C. Original filed, act of 1946, Principal Register, May 18, 1949; amended to application, Supplemental Register, Mar. 10, 1951, Serial No. 579,054.



The representation of the goods is disclaimed. The mark comprises the combination of a representation of a rotary union, printed at an angle and partially encircled by annular inner and outer races which contain a series of ball bearings; the races being broken away and some of the bearings being visible, and the races being in a different plane from the plane of rotation of the longitudinal axis of the union; and stylized arrows about the nozzle of the union.

For Rotary Unions To Convey Liquid or Gas Into or Out of Revolving Cylinders, Rolls, or Drums.

Claims use since March 1947.

556,789. (Class 22. Games, Toys, and Sporting Goods.) John H. Wright, Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 2, 1949; amended to application, Supplemental Register, Jan. 17, 1952, Serial No. 582,872.

ZOO-OGRAPHY

For Jigsaw Puzzle Consisting of a Cardboard or Plastic Map of the World Cut Into Segments, Each Segment Having Mounted Thereon and Extending Vertically Thereabove a Plastic Representation of an Animal Indigenous to the Geographical Area Represented by the Segment.

Claims use since July 20, 1949.

556,790. (Class 52. Detergents and Soaps.) McRay's Company, Des Moines, Iowa. Original filed, act of 1946, Principal Register, Sept. 19, 1949; amended to application, Supplemental Register, Aug. 7, 1950, Serial No. 585,045.



The drawing is lined for red and green, but color is not claimed as a material feature of the mark.

For Hair Shampoo.

Claims use since July 14, 1949.

556,791. (Class 38. Prints and Publications.) Television Forecast, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 23, 1949; amended to application, Supplemental Register, Sept. 9, 1950, Serial No. 585,257.

TV Forecast

Applicant claims ownership of Registrations Nos. 524,044 and 524,273.

For Periodical Publication, Including Advertising Matter and the Coming Programs of Television Broadcasting Stations.

Claims use since Sept. 3, 1949.

556,792. (Class 38. Prints and Publications.) Tel-A-Phony, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Oct. 26, 1949; amended to application, Supplemental Register, June 22, 1951. Serial No. 586,891.

TEL-A-PHONY

For Rotative Hand Manipulable Chart With Printed Information Thereon Used for the Purpose of Detecting Counterfeit Currency Prepared for Distribution by Others.

Claims use since Oct. 19, 1949.

556,793. (Class 39. Clothing.) Willard J. Wise, Chicago, Ill., assignor to Kiddie Kasuals, Inc., Chicago, Ill., a corporation of Illinois. Original filed, act of 1946, Principal Register, Nov. 8, 1949; amended to application, Supplemental Register, Jan. 9, 1952, Serial No. 587,516.

Kiddie Kasuals

For Children's Pinafores, Slips, Panties, Smocks, and Sun Suits.

Claims use since Apr. 1, 1944.

556,794. (Class 18. Medicines and Pharmaceutical Preparations.) Delfino Arrioja y V., Puebla, Mexico. Original filed, act of 1946, Principal Register, Oct. 25, 1949; amended to application, Supplemental Register, Oct. 17, 1951, Serial No. 587,989.



Applicant claims ownership of Mexican Registrations Nos. 20,487, dated Feb. 6, 1922 and 24,438, dated Mar. 13, 1925; and United States Registration No. 264,313, dated Nov. 26, 1929.

For Laxative.

556,795. (Class 1. Raw or Partly Prepared Materials.) Coating Products, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 30, 1949; amended to application, Supplemental Register, Oct. 4, 1951, Serial No. 590,142.

SAFE T BRITE

For Acetate in Roll Form Cut Into Narrow Rolls and Sheets.

Claims use since Dec. 15, 1949.

556,796. (Class 34. Heating, Lighting and Ventilating Apparatus.) Holly Manufacturing Company, Pasadena, Calif. Original filed, act of 1946, Principal Register, Dec. 30, 1949; amended to application, Supplemental Register, Nov. 15, 1951, Serial No. 590,157.

NARROWALL

For Space Wall Heaters.

Claims use since Nov. 2, 1949.

556,797. (Class 19. Vehicles.) Cahill Manufacturing Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 25, 1950; amended to application, Supplemental Register, Jan. 13, 1951, Serial No. 593,053.

Shur Bond

For Brake Shoes With Bonded Brake Linings for Automotive Vehicles.

Claims use since Nov. 29, 1949.

556,798. (Class 50. Merchandise Not Otherwise Classified.) Woodenware Products Corporation, St. Louis, Mo. Original filed, act of 1946, Principal Register, Mar. 15, 1950; amended to application, Supplemental Register, Mar. 9, 1951, Serial No. 594,008.

WATLING

For Step Ladders, Single Ladders, Extension Ladders, Trestle Ladders, Extension Planks, Scaffolds Principally of Wood, and Step Stools.

Claims use since Mar. 10, 1947.

556,799. (Class 22. Games, Toys, and Sporting Goods.) Harold E. Watson, Dallas, Tex. Original filed, act of 1946, Principal Register, Mar. 24, 1950; amended to application, Supplemental Register, Jan. 18, 1952, Serial No. 594,603.

Bass-Hopper

The word "Bass" is disclaimed.

For Artificial Fishing Lure.

Claims use since Oct. 28, 1949.

556,800. (Class 29. Brooms, Brushes, and Dusters.) Nathaniel Marx, Chicago, Ill. Original filed, act of 1946, Principal Register, May 13, 1950; amended to application, Supplemental Register, Jan. 14, 1952, Serial No. 597,408.

PAINT-RITE

For Artists' Paint Brushes.

Claims use since July 1947.

556,801. (Class 39. Clothing.) Duet Hosiery Corp., New York, N. Y., assignor to Warren Knitting Mills, Inc., New York, N. Y., a corporation of New Jersey. Original filed, act of 1946, Principal Register, June 15, 1950; amended to application, Supplemental Register, Aug. 15, 1951, Serial No. 599,159.

NU-NURSE

For Hosiery for Women and Girls.

Claims use since May 31, 1950.

556,802. (Class 1. Raw or Partly Prepared Materials.) Phoenix Fuel Company, Louisville, Ky. Original filed, act of 1946, Principal Register, July 17, 1950; amended to application, Supplemental Register, April 26, 1951, Serial No. 600,785.



The drawing is lined for blue.

For Bituminous Coal.

Claims use since June 15, 1949.

556,803. (Class 38. Prints and Publications.) Haywood Publishing Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 6, 1950; amended to application, Supplemental Register, Dec. 10, 1951, Serial No. 605,953.

Boxboard CONTAINERS

For Magazine.

Claims use since Oct. 13, 1950.

556,804. (Class 6. Chemicals and Chemical Compositions.) Vineland Poultry Laboratories, Landis Township, N. J. Original filed, act of 1946, Principal Register, Dec. 4, 1950; amended to application, Supplemental Register, Jan. 11, 1952, Serial No. 607,273.

VINELAND RATRID

For Rodenticide.

Claims use since Sept. 20, 1950.

556,805. (Class 38. Prints and Publications.) Ideal Publishing Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 19, 1950; amended to application, Supplemental Register, Jan. 3, 1952, Serial No. 607,858.

movie pin-ups

For Periodical.
Claims use since Dec. 1, 1950.

556,806. (Class 38. Prints and Publications.) Jack H. Lockhart, doing business as Dakota Laboratories, Redfield, S. Dak. Original filed, act of 1946, Principal Register, Jan. 4, 1951; amended to application, Supplemental Register, Dec. 7, 1951, Serial No. 608,363.

PHOTO-CARD

For Photographic Prints, Pictures, and Picture Cards.
Claims use since Dec. 1, 1950.

556,807. (Class 38. Prints and Publications.) McGraw-Hill Publishing Company, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 4, 1951; amended to application, Supplemental Register, Dec. 12, 1951, Serial No. 608,368.

FOOD ENGINEERING

For Publication Issued Periodically.
Claims use since Dec. 6, 1950.

556,808. (Class 38. Prints and Publications.) Stoeger Arms Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 11, 1951; amended to application, Supplemental Register, Jan. 8, 1952, Serial No. 608,683.

"The Angler's Bible"

The words "The" and "Bible" are disclaimed. Applicant claims ownership of Registration No. 394,657.
For Publication Embracing Matters Principally Descriptive of Fishing Reels, Rods Tackle, Equipment, Accessories and Items of Wear and Merchandise Related to the Sport of Fishing, Published From Time to Time.
Claims use since Dec. 15, 1950.

556,809. (Class 27. Horological Instruments.) Zvonko Maar, Zurich, Switzerland. Filed Mar. 30, 1951, Serial No. 612,023.

MAAR
AUTOMATIC CAR-WATCH

For Time Pieces for Vehicles, in Particular Automotive Vehicles, and Parts of Such Time Pieces.
Claims use since September 1949 and since September 1949 in commerce among the several States and between Switzerland and the United States.

556,810. (Class 39. Clothing.) Cellini Shoes, Inc., Philadelphia, Pa. Filed May 29, 1951, Serial No. 614,487.

Cellini

For Women's Shoes.
Claims use since Jan. 29, 1948.

556,811. (Class 39. Clothing.) Hughes and Hatcher, Inc., Detroit, Mich. Filed June 14, 1951, Serial No. 615,180.

montclair

For Men's Coats, Vests, and Pants.
Claims use since May 18, 1950.

556,812. (Class 38. Prints and Publications.) Clayton La Verne Bargren, doing business under the name and style of Authentic Fishing Guide, Atlanta, Ga. Original filed, act of 1946, Principal Register, June 21, 1951; amended to application, Supplemental Register, Dec. 26, 1951, Serial No. 615,475.

Authentic
FISHING GUIDE

For Magazine Published Periodically.
Claims use since May 1, 1947.

556,813. (Class 39. Clothing.) Maiden Form Brassiere Co., Inc., New York, N. Y. Filed Aug. 22, 1951, Serial No. 617,965.

Le Corsage

Applicant claims ownership of Registration No. 283,503.
For Brassières, Garter Belts and Girdles.
Claims use since Jan. 1, 1929.

556,814. (Class 39. Clothing.) Maiden Form Brassiere Co., Inc., New York, N. Y. Filed Aug. 22, 1951, Serial No. 617,966.

"EVER-SHEER"

Applicant claims ownership of Registration No. 287,679.
For Brassières, Garter Belts and Girdles.
Claims use since May 1, 1930.

556,815. (Class 39. Clothing.) Beaumart Co., New York, N. Y. Filed Aug. 28, 1951, Serial No. 618,145.

THE COUNTRY SHOPPER

For Ladies' and Misses' Dresses.
Claims use since May 8, 1950.

556,816. (Class 37. Paper and Stationery.) Sterling Pulp & Paper Company, Eau Claire, Wis. Filed Oct. 19, 1951, Serial No. 621,602.

"PORE-FILLED"

For Waxed Paper.
Claims use since Apr. 7, 1950.

TRADE-MARK REGISTRATIONS RENEWED

37,449. "A-O-K" ETC. AND DESIGN. Registered Dec. 10, 1910. Charles Ulrich & Co. Re-renewed Dec. 10, 1951, to Central O-B Products Co. Inc., Buffalo, N. Y., a corporation of New York. Metal-Polish. Class 4.

38,031. "FOSTER'S" ETC. AND DRAWING. Registered Apr. 1, 1902. Foster-McClellan Co. Re-renewed Apr. 1, 1952, to Foster-McClellan Co., Buffalo, N. Y., a corporation of New York. Specific for the Cure of Kidney and Bladder Complaints. Class 18.

38,166. REPRESENTATION OF WOMAN'S HEAD WITH LONG HAIR AND DESIGN. Registered Apr. 22, 1902. Mary T. Goldman, St. Paul, Minn. Re-renewed Apr. 22, 1952, to Monroe Chemical Company, Quincy, Ill., a corporation of Maryland. Hair-Restorers and Other Applications for the Hair and Cosmetics. Class 51.

83,897. TRUSO. Registered Oct. 24, 1911. The H. B. Claflin Company. Re-renewed Oct. 24, 1951, to Chas. Chipman's Sons Co., Inc., New York, N. Y., a corporation of New York. Hosiery. Class 39.

84,727. REGAL. Registered Jan. 2, 1912. Columbian Rope Company, Auburn, N. Y., a corporation of New York. Re-renewed Jan. 2, 1952. Manila and Sisal Rope. Class 7.

85,008. RUBENS. Registered Jan. 16, 1912. Rubens & Marble. Re-renewed Jan. 16, 1952, to Rubens & Marble, Inc., Chicago, Ill., a corporation of Illinois. Knitted Undershirts. Class 39.

85,625. PHENOLAX. Registered Feb. 27, 1912. The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan. Re-renewed Feb. 27, 1952. Laxative Preparations. Class 18.

85,801. "VANTA VEST" WITH HEAVY UNDERLINES. Registered Mar. 19, 1912. Earnshaw Knitting Company, Chicago, Ill. Re-renewed Mar. 19, 1952, to The Vanta Company, Inc., Waltham, Mass., a corporation of Rhode Island. Undershirts. Class 39.

86,009. GOTHIC. Registered Apr. 2, 1912. Tim & Co., New York and Troy, N. Y. Re-renewed Apr. 2, 1952, to Cluett, Peabody & Co., Inc., Troy, N. Y., a corporation of New York. Textile Collars, Underdrawers, Undershirts, Union Suits, and Pajamas. Class 39.

86,030. REPRESENTATION OF BIRD AND DRAWING. Registered Apr. 9, 1912. J. C. Blair Company, Huntingdon, Pa. Re-renewed Apr. 9, 1952, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware. Envelops, Writing-Tablets, Pencil-Tablets, Drawing-Tablets, Spelling-Tablets, and Blank Books. Class 37.

86,105. CEMCOAT. Registered Apr. 9, 1912. L. Sonneborn Sons, Inc., New York, N. Y., a corporation of Delaware. Re-renewed Apr. 9, 1952. Paints Adapted To Form a Tough Elastic and Wear-Resisting Finish for Cement, Etc. Class 16.

86,248. CREFENOL. Registered Apr. 23, 1912. L. Sonneborn Sons, Inc., New York, N. Y., a corporation of Delaware. Re-renewed Apr. 23, 1952. Disinfectant Which May Be Used as a Dip for Sheep or Other Animals. Class 6.

86,411. "LAKESIDE" AND DESIGN. Registered May 7, 1912. John F. Jelke Company, Chicago, Ill. Re-renewed May 7, 1952, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Oleomargarin. Class 46.

86,509. "ENDEAVOR" AND DRAWING. Registered May 14, 1912. J. C. Blair Company, Huntingdon, Pa. Re-renewed May 14, 1952, to Western Tablet & Stationery Corporation, Dayton, Ohio, a corporation of Delaware. Paper for Writing and Printing Purposes, Drawing-Paper, Pencil-Paper, Envelops, Writing-Tablets, Pencil-Tablets, Drawing-Tablets, Etc. Class 37.

86,594. "EUREKA" AND DESIGN. Registered May 21, 1912. The S. Howes Company. Re-renewed May 21, 1952, to S. Howes Company, Inc., Silver Creek, N. Y., a corporation of New York. Grain-Cleaners, Grain-Separators, Grain-Scourers, Etc. Class 23.

86,643. AXONELAT. Registered May 21, 1912. Victor Balata & Textile Belting Co., Easton, Pa., New York, N. Y., and Chicago, Ill., a corporation of Pennsylvania. Re-renewed May 21, 1952. A Special Car-Lighting Belting Composed of Woven Duck Impregnated With Pure Balata Gum. Class 35.

86,666. HOUSE & GARDEN. Registered May 21, 1912. McBride, Nast & Co. Re-renewed May 21, 1952, to The Conde Nast Publications, Inc., New York, N. Y., a corporation of New York. Monthly Magazine. Class 38.

278,872. ELASTRONG. Registered Dec. 30, 1930. Rheinische Gummi- und Celluloid-Fabrik, Mannheim, Germany. Renewed Dec. 30, 1950, to Rheinische Gummi und Celluloidfabrik, Mannheim-Neckarau, Germany, a German corporation. Combs Not Made of Precious Metal. Class 40.

281,675. REPRESENTATION OF TRIDENT. Registered Mar. 24, 1931. Neptune Meter Company. Renewed Mar. 24, 1951, to Neptune Meter Company, New York, N. Y., a corporation of New Jersey. Meters for Measuring Liquids. Class 26.

286,494. AGOZIZINE. Registered Sept. 1, 1931. Pierre Zizine, Paris, France. Renewed Sept. 1, 1951. Medicinal Preparation in Granular Form Used for Diseases of the Liver and the Alimentary Canal and Diseases of Metabolism, Headaches, Vertigo, and Affections of the Skin. Class 18.

286,707. DUPLEX TUBULAR. Registered Sept. 1, 1931. Duplex Printing Press Co., Battle Creek, Mich. Renewed Sept. 1, 1951, to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois. Rotary Printing Presses, Rotary Folders, and Stereotype Equipment—Namely, Matrix Rollers, Etc. Class 23.

287,062. SARDILENE. Registered Sept. 15, 1931. F. E. Booth Company, Inc., San Francisco, Calif., a corporation of Nevada. Renewed Sept. 15, 1951. Poultry Feed. Class 46.

287,287. "HAMPDEN" ETC. AND DRAWING LINED FOR GOLD AND RED. Registered Sept. 15, 1931. Hampden Brewing Company, Chicopee, Mass. Renewed Sept. 15, 1951, to Hampden Brewing Company, Williamsett, Mass., a corporation of Massachusetts. Malt Beverages Containing Less Than One-Half of One Per Cent Alcohol by Volume. Class 48.

288,154. "REMINGTON RAND" AND DRAWING. Registered Oct. 20, 1931. Remington Rand Inc., Buffalo, N. Y. Renewed Oct. 20, 1951, to Remington Rand Inc., New York, N. Y., a corporation of Delaware. Bound Books for Accounts and Records; Loose Leaf Binders for Accounts and Records and Blank, Partially, Printed and/or Ruled Sheets, Etc. Class 37.

288,168. "REMINGTON RAND" AND DRAWING. Registered Oct. 20, 1931. Remington Rand Inc., Buffalo, N. Y. Renewed Oct. 20, 1951, to Remington Rand Inc., New York, N. Y., a corporation of Delaware. Cabinets, Lockers, Cupboards, Shelving Constituting Office and Factory Furniture and Equipment; Etc. Class 32.

289,914. "MYCO GLOSS" AND DRAWING. Registered Dec. 15, 1931. Masury-Young Company, Charlestown, Mass., a corporation of Massachusetts. Renewed Dec. 15, 1951. Liquid Preparation for Waxing Floors, Wood Work, Metal Work, and Like Surfaces. Class 4.

289,923. LINEDEX. Registered Dec. 15, 1931. Remington Rand Business Service, Inc., Buffalo, N. Y. Renewed Dec. 15, 1951, to Remington Rand Inc., New York, N. Y., a corporation of Delaware. Index Cards, Index Strips and Sheets, Index Strips in Sheet Form and Holders Therefor Including Holders, Etc. Class 37.

290,076. OLIGAN. Registered Dec. 22, 1931. Society of Chemical Industry in Basle. Renewed Dec. 22, 1951, to Ciba Limited, Basel, Switzerland, a corporation organized under the laws of Switzerland. Chemical Products for Use as Auxiliary Agents in the Textile Industry—Namely, Dressing, Etc. Class 52.

290,173. "CITROMIEL" AND DRAWING. Registered Dec. 22, 1931. Camille Baillod, Basel, Switzerland. Renewed Dec. 22, 1951. Non-Alcoholic, Maltless Syrups for Beverage Purposes. Class 45.

290,236. CHRONOLOG. Registered Dec. 22, 1931. The National Acme Company, Cleveland, Ohio, a corporation of Ohio. Renewed Dec. 22, 1951. Instruments for the Combined Recording of Time and Production. Class 26.

290,431. "TOM MOORE" ETC. AND DRAWING. Registered Jan. 5, 1932. Kleiner Cigar Manufacturing Company, Detroit, Mich. Renewed Jan. 5, 1952, to Webster Tobacco Company, Inc., New York, N. Y., a corporation of Pennsylvania. Cigars. Class 17.

290,432. TOM MOORE. Registered Jan. 5, 1932. Kleiner Cigar Manufacturing Company, Detroit, Mich. Renewed Jan. 5, 1952, to Webster Tobacco Company, Inc., New York, N. Y., a corporation of Pennsylvania. Cigars. Class 17.

290,444. DRUMHEAD. Registered Jan. 5, 1932. Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y. Renewed Jan. 5, 1952, to Riegel Paper Corporation, New York, N. Y., a corporation of New Jersey. Tympan Paper. Class 37.

290,511. "WEBSTER" ETC. AND DRAWING. Registered Jan. 5, 1932. Webster Cigar Company, assignor to Webster Eisenlohr, Inc. Renewed Jan. 5, 1952, to Webster Tobacco Company, Inc., New York, N. Y., a corporation of Pennsylvania. Cigars. Class 17.

290,512. "WEBSTER" ETC. AND DESIGN. Registered Jan. 5, 1932. Webster Cigar Company, assignor to Webster Eisenlohr, Inc. Renewed Jan. 5, 1952, to Webster Tobacco Company, Inc., New York, N. Y., a corporation of Pennsylvania. Cigars. Class 17.

290,749. INOCYL. Registered Jan. 12, 1932. Geigy Company, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 12, 1952. Dyestuffs, Lakes, and Chemical Products Suitable for Dyeing Purposes. Class 6.

290,806. RIEGELITE. Registered Jan. 19, 1932. Riegel Paper Corporation, Riegelsville, N. J., and New York, N. Y. Renewed Jan. 19, 1952, to Riegel Paper Corporation, New York, N. Y., a corporation of New Jersey. Waxed Papers, Plain Glassine Paper, Waxed Glassine Paper, Transparent Wrapping Paper, Etc. Class 37.

291,175. TOOKIES. Registered Feb. 2, 1932. Johnson Educator Food Company, Cambridge, Mass. Renewed Feb. 2, 1952, to Megowen-Educator Food Company, Lowell, Mass., a corporation of Massachusetts. Cookies. Class 46.

291,192. "GOLDEN EGG" AND REPRESENTATION OF EGG LINED FOR GOLD. Registered Feb. 2, 1932. Golden Age Corporation, New York, N. Y. Renewed Feb. 2, 1952, to Grocery Store Products Co., West Chester, Pa., a corporation of Delaware. Noodles. Class 46.

291,282. GUARDIAN. Registered Feb. 9, 1932. The Colorado Fuel and Iron Company. Renewed Feb. 9, 1952, to The Colorado Fuel and Iron Corporation, Denver, Colo., a corporation of Colorado. Wire Fence. Class 13.

291,408. CIBASOL. Registered Feb. 9, 1932. Society of Chemical Industry in Basle. Renewed Feb. 9, 1952, to Ciba Limited, Basel, Switzerland, a corporation organized under the laws of Switzerland. Coal Tar Colors. Class 6.

291,419. "PEPSODENT" ETC. AND REPRESENTATION OF CONTAINER. Registered Feb. 9, 1932. The Pepsodent Co., Chicago, Ill. Renewed Feb. 9, 1952, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Antiseptics. Class 18.

291,440. EMULSEROL. Registered Feb. 9, 1932. The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan. Renewed Feb. 9, 1952. Emulsion of White Mineral Oil for Medicinal Use. Class 18.

291,458. TANICAINE. Registered Feb. 9, 1932. The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan. Renewed Feb. 9, 1952. Suppository or an Ointment for the Treatment of Hemorrhoids. Class 18.

291,463. FEEDWATERS INC. Registered Feb. 9, 1932. Feedwaters, Inc., New York, N. Y., a corporation of New York. Renewed Feb. 9, 1952. Preparations for Treating and Conditioning Water for the Prevention of Rust and Corrosion of Metals in Contact With Water; Etc. Class 52.

291,490. REPRESENTATION OF MONOGRAM "KK". Registered Feb. 9, 1932. The Kurz-Kasch Co. Renewed Feb. 9, 1952, to Kurz-Kasch, Inc., Dayton, Ohio, a corporation of Ohio. Articles and Parts Formed in Whole or in Part From Molded Plastic Insulating Compounds, Etc. Class 21.

291,938. LISTERINE. Registered Feb. 23, 1932. Lambert Pharmacal Company, Wilmington, Del. Renewed Feb. 23, 1952, to Lambert Pharmacal Company, St. Louis, Mo., a corporation of Delaware. Medicated Ointment for the Relief of Congestion, Sore Muscles, Colds, Neuralgia, Etc. Class 18.

292,060. VANTA. Registered Mar. 1, 1932. Earnshaw Knitting Company, Newton, Mass. Renewed Mar. 1, 1952, to The Vanta Company, Inc., Waltham, Mass., a corporation of Rhode Island. Castile Soap. Class 52.

292,101. "KIRKMAN'S" ETC. AND DRAWING LINED FOR RED AND BLACK. Registered Mar. 1, 1932. Kirkman & Son, Inc., Brooklyn, N. Y. Renewed Mar. 1, 1952, to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware. Soap. Class 52.

292,258. TANGITE. Registered Mar. 8, 1932. Feedwaters, Inc., New York, N. Y., a corporation of New York. Renewed Mar. 8, 1952. Preparations Used for the Prevention of Rust and Corrosion of Metals in Contact With Water; Etc. Class 52.

292,368. SUVENEER. Registered Mar. 15, 1932. Superior Steel Corporation, Carnegie, Pa. Renewed Mar. 15, 1952, to Superior Steel Corporation, Pittsburgh, Pa., a corporation of Virginia. Metal Strip or Sheet Material Consisting of a Sheet of Ordinary Steel and a Facing of Corrosion-Resistant Metal on One or Both Sides Thereof. Class 14.

292,486. "LIQUIDOR" WITH HEAVY UNDERLINE. Registered Mar. 15, 1932. Dryice Corporation of America. Renewed Mar. 15, 1952, to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York. Apparatus for Liquefying Gas or Solids. Class 23.

292,488. VANTA. Registered Mar. 15, 1932. Earnshaw Knitting Company, Newton, Mass. Renewed Mar. 15, 1952, to The Vanta Company, Inc., Waltham, Mass., a corporation of Rhode Island. Sterilized Baby Powder. Class 51.

292,511. FORM-FLEX. Registered Mar. 15, 1932. William S. Ferris, doing business as Do/More Chair Company. Renewed Mar. 15, 1952, to Domore Chair Company, Inc., Elkhart, Ind., a corporation of Indiana. Seats and Back Rests for Chairs and Upholstered Chairs. Class 32.

292,580. VANTA. Registered Mar. 15, 1932. Earnshaw Knitting Company, Newton, Mass. Renewed Mar. 15, 1952, to The Vanta Company, Inc., Waltham, Mass., a corporation of Rhode Island. Sterilized Olive Oil. Class 46.

292,835. DUKANE. Registered Mar. 29, 1932. Pittsburgh Tool Steel Wire Company, Monaca, Pa., a corporation of Pennsylvania. Renewed Mar. 29, 1952. Drill Rods and Cold Drawn Steel. Class 14.

293,140. INSPIRATION. Registered Apr. 12, 1932. May Hosiery Mills, Inc., Burlington, N. C. Renewed Apr. 12, 1952, to Burlington Mills Corporation, Greensboro, N. C., a corporation of Delaware. Hosiery. Class 39.

293,248. SALES-PAC. Registered Apr. 19, 1932. The Heinn Company, Milwaukee, Wis., a corporation of Wisconsin. Renewed Apr. 19, 1952. Loose-Leaf-Book Binders. Class 37.

293,614. WEBSTER. Registered May 3, 1932. Webster Eisenlohr, Inc. Renewed May 3, 1952, to Webster Tobacco Company, Inc., New York, N. Y., a corporation of Pennsylvania. Cigars. Class 17.

293,827. TANG. Registered May 10, 1932. Feedwaters, Inc., New York, N. Y., a corporation of New York. Renewed May 10, 1952. Chemicals Used for the Prevention of Rust and Corrosion of Metals in Contact With Water; Etc. Class 52.

293,848. FLAVOTINT. Registered May 10, 1932. Chr. Hansen's Laboratory, Inc., Little Falls, N. Y., a corporation of New York. Renewed May 10, 1952. Food Flavoring Extracts. Class 46.

293,898. PEPSODENT. Registered May 10, 1932. The Pepsodent Co., Chicago, Ill. Renewed May 10, 1952, to Lever Brothers Company, New York, N. Y., a corporation of Maine. Dentifrices, Antiseptics, and Preparations for the Treatment of Constipation. Class 51.

294,142. CORRAL DE LUXE. Registered May 17, 1932. Corral, Wodiska y Ca., Tampa, Fla., a corporation of Florida. Renewed May 17, 1952. Cigars. Class 17.

294,215. SILVARAY. Registered May 24, 1932. B. Kronish & Bro. Inc. Renewed May 24, 1952, to Bernhard Kronish, New York, N. Y. Cosmetics—Namely, Nail Polish, Face Cream, Rouge, Lipstick, Etc. Class 51.

294,287. GOLF. Registered May 24, 1932. Jack L. Sinykin, doing business as Cinderella Cosmetics, St. Paul, Minn. Renewed May 24, 1952, to Jack L. Sinykin, Minneapolis, Minn. Hair Tonics, Perspiration Lotion, Toilet Water, Hand Cream, Face Powder, and Hair Lotion. Class 51.

294,361. "LIBERTY" ETC. Registered May 24, 1932. Apothecaries Hall Company, Waterbury, Conn., a corporation of Connecticut. Renewed May 24, 1952. Preparation Used for Cannibalism in Poultry. Class 18.

294,408. "PING-PONG" LINED FOR RED. Registered May 24, 1932. Parker Brothers, Inc., Salem, Mass., a corporation of Maine. Renewed May 24, 1952. Table and Parts Thereof Especially Constructed for a Game. Class 22.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

444,628. SLOANE. Registered Jan. 1, 1952. W. & J. Sloane, New York, N. Y. Beds, Chests, Bureaus, Mirrors, Etc. Class 32. Corrected as follows: In the statement, column 2, line 11, strike out "BATH".

444,629. W & J SLOANE. Registered Jan. 1, 1952. W. & J. Sloane, New York, N. Y. Traditional and Modern Bedroom Furniture as Follows: Beds, Chests, Bureaus, Etc. Class 32. Corrected as follows: In the statement, column 2, lines 7 and 8, strike out "OF METAL AND/OR PLASTIC OR MIRROR"; line 11, after "SHELVES" insert *OF METAL AND/OR PLASTIC OR MIRROR.*

551,596. CRABTREE. Registered Dec. 4, 1951. Norton Coal Corporation, Nortonville, Ky. Coal and Washed Coal. Class 1. Corrected as follows: Column 2, line 19, signature to the statement, for "By D. L. LANIER," read *By R. D. LANIER,*

552,346. HYPRALOY. Registered Dec. 18, 1951. The New Jersey Zinc Company, New York, N. Y. Die Casting Alloy. Class 14. Corrected as follows: In the statement, column 2, line 6, for the date of use, "1941" read *1951.*

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

297,884. DASHAWAY. Registered Oct. 4, 1932. Alfred S. Eiseman. Piece Goods of Cotton, Silk, Linen, and/or Rayon or Combinations Thereof; Dish Cloths, Hair Nets, Etc. Class 42. New certificate under section 7(c) issued Mar. 25, 1952, to National Mallinson Fabrics Corporation, New York, N. Y., a corporation of Delaware.

312,598. DUMONT. Registered May 1, 1934. Hammel, Riglander-Pennant Corporation, now by change of name Hammel, Riglander & Co. Inc. Tweesers, Pliers and Nippers. Class 23. New certificate under section 7(c) issued Mar. 25, 1952, to Vve Th. Dumont Fils et Cie., Successeurs de Theodore Dumont Fils, a partnership domiciled and doing business in Montignes, Switzerland.

539,342. "SPORT STIRS" AND DESIGN. Registered Mar. 13, 1951. Nu-Pro Corporation. Beverage Stirrers. Class 23. New certificate under section 7(c) issued Mar. 25, 1952, to Futura Corporation, Chicago, Ill., a corporation of Illinois.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 341,084. Registered Dec. 1, 1936. Caldwell Seed Company, Evanston, Ill. Republished by R. C. Fonder, doing business as Permalawn Products Co., Evanston, Ill.

PERMALAWN

For Lawn Seed.
Claims use since Apr. 10, 1935.

Reg. No. 364,375. Registered Jan. 31, 1939. (Classified in Class 51.) Halsey Drug Company Inc., Brooklyn, N. Y. Republished by registrant.
See this serial number in Class 51 for goods and mark.
Claims use since Jan. 1, 1936.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 364,375. Registered Jan. 31, 1939. (Classified in Class 51.) Halsey Drug Company Inc., Brooklyn, N. Y. Republished by registrant.
See this serial number in Class 51 for goods and mark.
Claims use since Jan. 1, 1936.

Reg. No. 444,586. Registered Oct. 23, 1951. Geigy Company, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

TRIX

For Mothproofing and Moth Repellent Agents for Industrial and Household Use.
Claims use since May 29, 1946.

CLASS 10

FERTILIZERS

Reg. No. 340,201. Registered Nov. 3, 1936. Caldwell Seed Company, Evanston, Ill. Republished by R. C. Fonder, doing business as Permalawn Products Co., Evanston, Ill.

PERMALAWN

For Fertilizers.
Claims use since Apr. 10, 1935.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Reg. No. 227,988. Registered May 17, 1927. Markwell Mfg. Co., Inc., New York, N. Y., a corporation of New York. Republished by registrant.

176

For Staples for Use in Stapling Together Sheets of Paper, Fibre, Cardboard, and Like Materials, and for Stapling Boards Together in the Manufacture of Boxes and Other Articles.
Claims use since about Nov. 13, 1925.

Reg. No. 352,356. Registered Nov. 30, 1937. Hasco Valve and Machine Co., Milwaukee, Wis., a corporation of Wisconsin. Republished by registrant.

HASCO

For Plumbing and Steam-Fitting Valves and Metal Pipe Fittings.
Claims use since June 15, 1932.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 346,824. Registered June 8, 1937. Chicago Pharmacal Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

Antotal

For Liquid Preparation for the Treatment of Earache.
Claims use since June 19, 1936.

Reg. No. 364,375. Registered Jan. 31, 1939. (Classified in Class 51.) Halsey Drug Company Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant.
See this serial number in Class 51 for goods and mark.
Claims use since Jan. 1, 1936.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 419,098. Registered Feb. 5, 1946. The Rex Co., Inc., Cambridge, Mass. Republished by The Rex Corporation, Cambridge, Mass., a corporation of Massachusetts.

Rexolite

The drawing is lined for red.
For Plastic Composition in the Form of Thread or Rodding Used as Wound Electrical Insulation for Electric Wiring.
Claims use since Jan. 26, 1945.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 424,504. Registered Oct. 8, 1946. Hasco Valve and Machine Co., Milwaukee, Wis., a corporation of Wisconsin. Republished by registrant.

HASCO

For Piston Type Force Pumps Used for Pumping Molten Sulfur and Similar Products and Parts Thereof.
Claims use since June 15, 1932.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 288,025. Registered Oct. 20, 1931. Signal Publishing Corporation, Huntington Park, Calif. Republished by Signal Publications, Huntington Park, Calif., a partnership.

Huntington Park Signal

For Newspaper Published Every Evening Except Sunday.
Claims use since Aug. 20, 1925.

CLASS 39

CLOTHING

Reg. No. 321,351. Registered Jan. 29, 1935. The Gilbert Shoe Co., Thiensville, Wis., a corporation of Wisconsin. Republished by registrant.

ALLENITE TIP

The word "Tip" is disclaimed apart from the mark as shown.
For Shoes Made of Leather, Rubber, or Fabric, or Combinations of These Materials.
Claims use since Mar. 6, 1934.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 288,982. Registered Nov. 10, 1931. United States Rubber Company, New York, N. Y., a corporation of New Jersey. Republished by registrant.

VALESSE

For Vaginal Douches.
Claims use since May 29, 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 114,368. Registered Dec. 12, 1916. Loft, Incorporated, New York, N. Y. Republished by Loft Candy Corporation, a corporation of New York.

PARLAYS

For Candy.
Claims use since January 1916.

Reg. No. 206,167. Registered Nov. 24, 1925. G. W. Hume Company, San Francisco, Calif., a corporation of California. Republished by registrant.

PROVEN

For Canned Fruits, Canned Vegetables.
Claims use since July 1, 1925.

Reg. No. 234,118. Registered Oct. 18, 1927. G. W. Hume Company, San Francisco, Calif., a corporation of California. Republished by registrant.

HONEY BEE

For Canned Fruits—Namely, Peaches, Pears; Canned Vegetables—Namely, Asparagus, Spinach.
Claims use since May 15, 1926.

Reg. No. 236,685. Registered Dec. 20, 1927. Pacific Coast Canners, Inc., Oakland, Calif. Republished by Fruitvale Canning Company, Oakland, Calif., a corporation of California.

Miss California

For Canned Fruits.
Claims use since June 27, 1924.

Reg. No. 389,548. Registered Aug. 12, 1941. Ready Foods Company, Inc., also doing business as Hi-Life Packing Company, Chicago, Ill. Republished by Hi-Life Packing Company, Chicago, Ill., a corporation of Tennessee.

HI-LIFE

For Canned Dog Food.
Claims use since July 31, 1939.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 96,214. Registered Apr. 7, 1914. Odell Wilson, Cleveland, Ohio. Republished by Corega Chemical Company, Jersey City, N. J., a corporation of Ohio.

COREGA

For Dental Powder Used in Holding Dental Plates in the Mouth.
Claims use since June 12, 1913.

Reg. No. 196,843. Registered Mar. 31, 1925. Corega Chemical Company, Cleveland, Ohio. Republished by Corega Chemical Company, Jersey City, N. J., a corporation of Ohio.

CO-RE-GA

For Dental Powder for Assisting in Holding Dental Plates in the Mouth.
Claims use since July 12, 1913.

Reg. No. 200,438. Registered June 30, 1925. Corega Chemical Company, Cleveland, Ohio. Republished by Corega Chemical Company, Jersey City, N. J., a corporation of Ohio.

For Dental Power for Assisting in Holding Dental Plates in the Mouth.
Claims use since July 12, 1913.

Reg. No. 364,375. Registered Jan. 31, 1939. Halsey Drug Company Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant.

BLUE CROSS

For Mineral Oils, Cod Liver Oil, Mouth Wash Antiseptic, Mouth Wash Astringent, Milk of Magnesia, Liquid and Solid Citrates and Carbonates; Sodium Perborate, Plain and Flavored; Antacid Powder, Saltpetre, Sodium Fluoride, White Henna, Tincture Green Soap, Castor Oil, Glycerine, Glycerine and Rose Water, Cream Tartar, Egyptian Henna, Epsom Salt, Fennel Seed, Flaxseed, Senna Pods, Sulphur, Alum, Anise Seed, Bicarbonate of Soda, Borax, Boric Acid, Orris Root, Camomile Flowers, Comp. Licorice, Henna Leaves, Oxalic Acid, Rochelle Salt, Senna Leaves, and Roach Powder.
Claims use since Jan. 1, 1936.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 364,375. Registered Jan. 31, 1939. (Classified in Class 51.) Halsey Drug Company Inc., Brooklyn, N. Y., a corporation of New York. Republished by registrant.
See this serial number in Class 51 for goods and mark.
Claims use since Jan. 1, 1936.

PLANT PATENTS

GRANTED MARCH 25, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,080
AVOCADO TREE
Meyer E. Ponteprino, Anaheim, Calif.
Application February 9, 1948, Serial No. 7,127
1 Claim. (Cl. 47—62)

An avocado tree substantially as described and illustrated characterized in that its fruit is summer ripening, is generally of pear-shape, and is characterized in that the skin of the fruit has a green color shading between parsley green, spinach green and fern green and having flecks upon its surface of garnet brown shading down to a lavender green, and that its interior meat has a barium yellow coloring and further characterized in that the leaf foliage of the tree is the green color of that generally designated as spinach green shading into parsley green color.

PATENTS

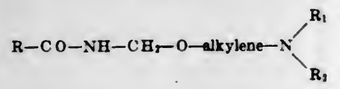
GRANTED MARCH 25, 1952

2,590,073
AMIDE DERIVATIVES AND PROCESS OF MAKING SAME

Otto Albrecht, Munchenstein, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

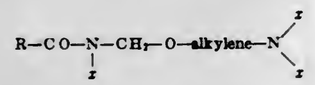
No Drawing. Application February 17, 1948, Serial No. 9,030. In Switzerland March 17, 1947
16 Claims. (Cl. 260—404.5)

1. A process for the manufacture of a new amide derivative which comprises adding at least one mol of an alkylene oxide to an N-acylated amino methyl ether of the formula



wherein R—CO— is the acyl radical of a fatty acid containing at least 12 carbon atoms and R_1 and R_2 are lower hydroxy alkyl radicals.

9. A product of the general formula



wherein R—CO— is the acyl radical of a fatty acid containing at least 12 carbon atoms and wherein at least one x is lower hydroxy alkyl interrupted by at least one ether bridge the remaining x being lower hydroxy alkyl radicals.

2,590,074
STAINLESS STEEL PROCESS AND PRODUCT

Fredrick Kenneth Bloom, Baltimore, Md., assignor to Armco Steel Corporation, a corporation of Ohio

No Drawing. Application December 28, 1948, Serial No. 67,750
5 Claims. (Cl. 148—1)

1. In a method for producing magnetic sound recording steel products, the art which includes providing stainless steel wire, tape or the like of about 0.02 inch thickness and in which there are correlated about 0.02% to 0.20% carbon, 16% to 20% chromium, 6% to 15% nickel, 0.20% to 2.5% manganese and the remainder substantially all iron in relationship substantially consistent with the formula:

$$\%\ \text{chromium}\ (\%\ \text{nickel}+\frac{\%\ \text{manganese}}{2}+20\times\%\ \text{C})=X$$

where X=170 to 210 dictates a 40% to 80% cold reduction of said steel and where X=210 to 240 dictates more than about 80% cold reduction,

and cold-working said steel wire, tape or the like, substantially consistent with the formula.

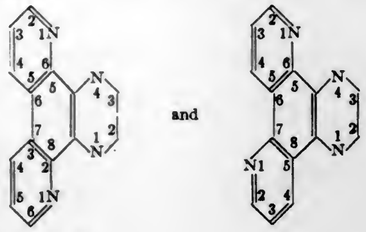
2,590,075
QUINOXALINES AND PROCESS OF MAKING SAME

Jean Druey, Riehen, and Paul Schmidt, Therwil, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application April 30, 1951, Serial No. 223,822. In Switzerland May 5, 1950
8 Claims. (Cl. 260—250)

1. A process for the manufacture of new quinoxalines, which comprises reacting a member of the group consisting of 4:7- and 1:7-phenanthrolines carrying in each of the positions 5 and 6 a substituent replaceable by an amino group with a diprimary aliphatic diamine, the amino groups of which are linked to adjacent carbon atoms.

6. A member of the group consisting of 5:6:7:8-dipyrido-(5′:6′:2″:3″)- and 5:6:7:8-dipyrido-(5′:6′:5″:6″)-quinoxalines with the nuclei of the formulae



and salts thereof.

2,590,076
TREATMENT OF WINES

Julius H. Fessler, Berkeley, Calif.

No Drawing. Application December 29, 1948, Serial No. 68,067
4 Claims. (Cl. 99—35)

1. A process for treating wine to obviate pasteurization and the incorporation of bactericide additives, comprising precoating a multiplate filter with a diatomaceous earth filter aid, washing the precoated filter with an aqueous fruit acid solution, flushing the washed filter with water, and filtering the wine through the so-prepared filter to reduce the bacteria and yeast content below that at which growth occurs, and collecting the filtered wine in sterile equipment.

2,590,077
ICE CREAM COMPOSITION

Jan Lolkema, Hoogezand, Netherlands, assignor to Naamlooze Vennootschap: W. A. Scholten's Chemische Fabrieken, Groningen, Netherlands, a corporation of the Netherlands

No Drawing. Application June 2, 1949, Serial No. 96,834. In the Netherlands February 12, 1949
3 Claims. (Cl. 99—136)

1. Ice cream composition containing as a stabilizer a cold water soluble material selected from the group consisting of starch ethers and starch esters, said water soluble starch material consisting of particles of a comminuted thin film in the form of small scales.

2,590,078
PROCESS FOR THE MANUFACTURE OF THE CARBONYLS OF NICKEL

Arthur Maeder, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm

No Drawing. Application February 12, 1948, Serial No. 7,997. In Switzerland February 27, 1947
3 Claims. (Cl. 23—203)

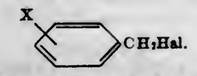
1. A process for the manufacture of nickel carbonyl, which comprises heating a mixture produced by the action of an alkaline reacting substance selected from the group consisting of ammonia and alkali metal hydroxides upon a nickel salt and a member selected from the group consisting of nickel sulfide and nickel cyanide in an aqueous alkaline medium with carbon monoxide under a pressure range from 50 to 200 atmospheres to a temperature of 70–200° C.

2,590,079
TERTIARY BUTYL AMINES AND THEIR PREPARATION

Liese L. Abell, New York, N. Y., and William F. Bruce, Havertown, and Joseph Seifter, Willow Grove, Pa., assignors to Wyeth Incorporated, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application September 23, 1947, Serial No. 775,754
4 Claims. (Cl. 260—570.8)

1. The method of preparing an N-alkyl-omega-phenyl tertiary-butylamine comprising adding a mixture of isobutyrophenone and a benzylating agent having the formula

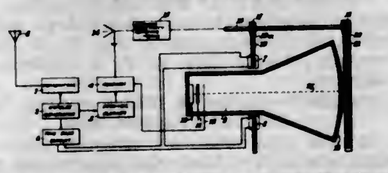


wherein Hal. stands for a halogen radical and X represents a member of the group consisting of hydrogen and lower alkyl radicals, to an alkaline material of the group consisting of alkali metal amide and alkali metal alcoholate, cleaving the diaryl reaction product formed in the preceding step by contact with an alkali metal amide, treating the amido reaction product thus obtained with an alkali metal hypohalite to form a substituted urea, decomposing the latter by aqueous, alkaline hydrolysis to form an amine, condensing said amine with benzaldehyde to form a Schiff base, reacting the latter with a lower alkyl halide alkylating agent, hydrolyzing the alkylated reaction product and finally separating the desired product from the reaction mixture.

2,590,080
CATHODE-RAY TUBE SCREEN FILTER

Paul R. Adams, Cranford, N. J., assignor to Federal Telephone and Radio Corporation, New York, N. Y., a corporation of Delaware

Application July 9, 1945, Serial No. 603,932
11 Claims. (Cl. 343—11)

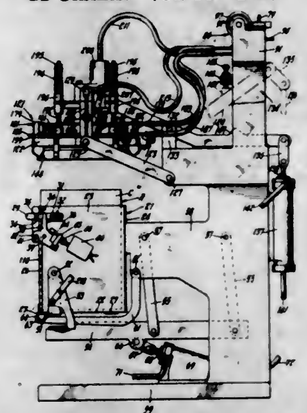


5. In a cathode ray oscillograph indicator having a luminescent screen and an associated rotatable electron beam producing an indication trace progressively decreasing in brilliance with respect to time; luminescent screen filter means comprising a circular light wedge having a decreasing filtering action in a circular direction from one radius thereof, means to align said circular light wedge filter for rotary movement about the axis of rotation of said beam with its highest filtering portion overlying the point of impingement of said electron beam on said screen, and drive means to rotate said circular light wedge in synchronism with the circular displacement of the electron beam.

2,590,081
BAG SEALING MACHINE

August E. Almgren, Hillside, and John P. Jakob, Roselle, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 17, 1947, Serial No. 792,123
11 Claims. (Cl. 53—150)



1. In a machine for sealing a bag or other flexible container filled with articles, the combination of a movable support, a cradle carried on said support for receiving and holding a filled bag to be sealed, said cradle having a movable side wall expandable to receive and contractible to hold a bag in said cradle, means operable against said cradle through the movement of said support for shifting said cradle into different positions including positions for receiving, sealing and discharging said filled bag, actuating means for moving said support, locking means on said cradle for locking said movable wall in contracted position, and starting means engaged by said locking means when the wall is moved into contracted bag holding position for starting said actuating means.

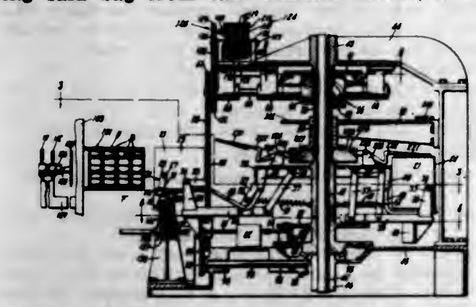
2,590,082
BAG SEALING MACHINE

August E. Almgren, Hillside, John P. Jakob, Roselle, and Frank W. Goodrich, Newark, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

Application December 17, 1947, Serial No. 792,124
18 Claims. (Cl. 53—102)

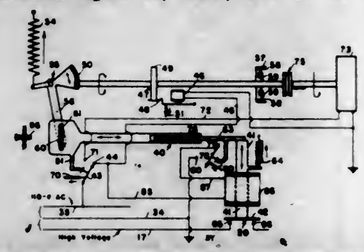
1. In a machine for sealing a bag or other flexible container filled with articles, the combination of a holder for a bag filled with articles, transfer means disposed adjacent said holder for removing said filled bag from said holder, a cradle movable along a substantially horizontal path of travel adjacent said holder, means for moving said cradle along its path of travel, and means for tilting said cradle and for reciprocating it laterally relative to its path of travel into dif-

ferent positions including a position for receiving said bag from said transfer means, a bag



sealing position and other positions for subsequent treatment of said bag.

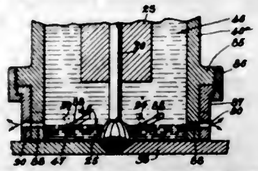
2,590,083
ELECTRIC POWER DISTRIBUTION SYSTEM
John F. Atkinson, Harold W. Kelley, and James M. McCutchen, Arlington, Va.
Application September 14, 1949, Serial No. 115,754
7 Claims. (Cl. 171—97)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an electric power distribution system provided with a power supply, at least two switches connected in the system in series with each other and with the power supply, power loads connected to the portion of the system between the switches and beyond the switch more remote from the power supply, switch-opening means operating automatically as a result of zero voltage in the system to open the more remote switch, and switch-closing means operating automatically as a result of re-established voltage in that portion of the system between the switches due to closing of the switch less remote from the power supply to close the more remote switch, said switch-closing means being constructed to operate a selected interval of time after closing of the less remote switch, thus to re-establish the voltage in the system beyond the more remote switch a selected interval of time after its re-establishment in that portion between the switches.

2,590,084
SHIELDED ARC WELDING METHOD AND GAS CONFINING MEANS
Arthur A. Bernard, Chicago, Ill., assignor to National Cylinder Gas Company, a corporation of Delaware
Application August 6, 1945, Serial No. 609,090
3 Claims. (Cl. 219—10)

1. In the art of electric arc welding wherein an arc is established between a base metal and an electrode above the base metal, the improvement that consists in enclosing a space around the arc to confine the arc-generated gas, continually introducing into said space at a level above the lower end of said arc a gaseous fluid lighter than said arc-generated gas, continually venting said space at a level above the lower end of said arc, correlating the introduction of said gaseous fluid and said venting to



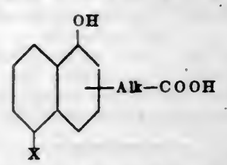
cause said arc-generated gas and said gaseous fluid to form separate bodies with an interface at substantially said level, and varying said venting level to shift said interface along the arc thereby to vary the rate of metal deposition from the electrode through the arc.

2,590,085
HYDROXY XENOYL ALKANOIC ACIDS AND DERIVATIVES THEREOF
Robert R. Burtner, Skokie, and Harry A. Arbit, Chicago, Ill., assignors to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois
No Drawing. Application January 19, 1948, Serial No. 3,166
10 Claims. (Cl. 260—520)

1. As a new composition of matter, a hydroxyxenoylalkanoic acid wherein the alkanoic acid portion of said hydroxyxenoylalkanoic acid contains at least 2 and no more than 9 carbon atoms, and salts thereof.

2,590,086
1-HYDROXY NAPHTHYL ALKANOIC ACIDS AND CERTAIN SALTS THEREOF
Robert R. Burtner, Skokie, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois
No Drawing. Application March 31, 1948, Serial No. 18,285
5 Claims. (Cl. 260—520)

5. A member of the group consisting of an acid and salts threreof, said acid having the formula

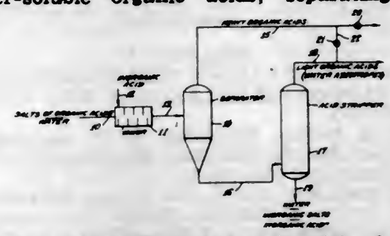


wherein X is a member of the group consisting of hydrogen and hydroxyl radicals and Alk is an alkylene radical containing at least two and not more than seven carbon atoms.

2,590,087
RECOVERY OF ORGANIC ACIDS
William P. Burton, Orange, and Ernest Solomon, Nutley, N. J., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application November 14, 1946, Serial No. 709,882
5 Claims. (Cl. 260—450)

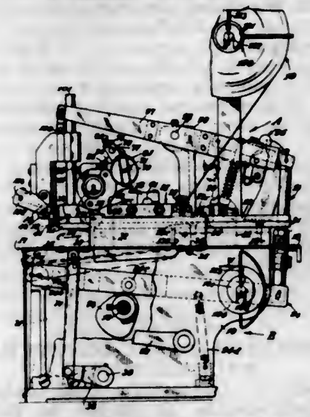
1. In the separation of organic acids from aqueous solutions of their alkali salts, the process comprising the steps of: contacting an aqueous solution of alkali salts of water-soluble and water-insoluble organic acids, each of said acids having at least 2 carbon atoms per molecule, with an inorganic acid to acidify said solution; separating

the mixture thus obtained into an acid-rich phase comprising water-insoluble organic acids and a water-rich phase comprising inorganic salts and water-soluble organic acids; separating said



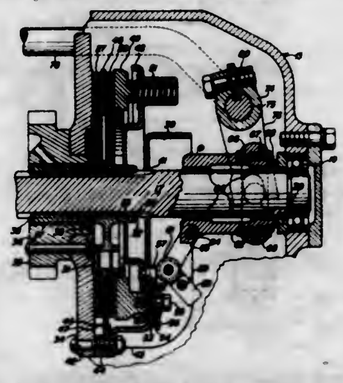
phases; and distilling said water-rich phase to separate substantially all water-soluble organic acids having at least 3 carbon atoms per molecule as their water azeotropes from the remaining aqueous solution.

2,590,088
PINTICKET MANUFACTURING AND ATTACHING MACHINE
Robert W. Clauss, New York, N. Y.
Application April 30, 1947, Serial No. 744,921
2 Claims. (Cl. 93—38)



1. In a ticket manufacturing and attaching device having a horizontal base plate with a front and rear portion, a horizontal table spaced below the front portion of the base plate, said base plate being only supported by its rear portion, leaving a long space between said base plate and table for the entrance of garments to be ticketed, a ticket holder for the finished ticket, and a cutter for cutting off the finished ticket, said holder and knife being in front of said base plate and above the table, the combination of a printing and feeding head unit, a paper guide unit, said printing and feeding head and paper guide units being detachably secured to the upper surface of said base plates for adjustment on said base plate, the distance of said printing and feeding unit and paper guide unit from said cutter determining the length of the ticket and said paper guide unit determining the width of the ticket, and determining the registration of the cutter with the printed matter on the paper, operating mechanism below said table, means actuated by said mechanism extending to the rear of the table and base plate and to above the base plate to said printing and feeding head unit for operating said printing and feeding head unit, means actuated by said mechanism extending to the rear of the table and base plate and then to above and to the front of the base plate, for operating the ticket holder and knife in front of the base plate, and a supporting means on said base plate for said last named means, whereby different sized tickets are made and applied to any portion of the garment in said long space.

2,590,089
CLUTCH BRAKE
Charles A. Cook, Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application December 10, 1947, Serial No. 790,834
14 Claims. (Cl. 192—13)

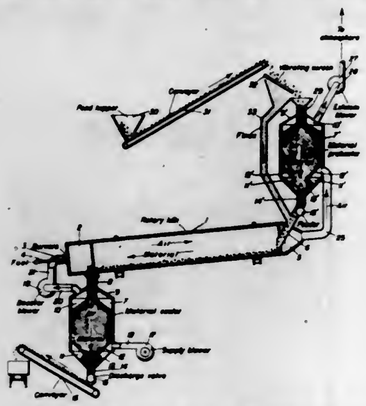


1. In a friction clutch assembly, rotatable driving and driven clutch members, a shift collar operatively connected to, axially slidable with respect to, and rotatable with the driven clutch member, means operatively connected to said collar for controlling axial movement thereof and coacting means on said collar and said control means actuated by said control means for restraining rotation of said collar and the associated driven clutch member when the clutch members are disengaged.

2,590,090
NODULIZING PROCESS AND APPARATUS
Fred D. De Vaney, Hibbing, Minn., assignor to Erie Mining Company, Hibbing, Minn., a corporation of Minnesota
Application September 16, 1946, Serial No. 697,373
4 Claims. (Cl. 263—32)

3. In a rotary kiln apparatus including a rotary kiln provided with lower and upper stationary hoods, a fuel burner in the lower stationary hood and a solids-feeding means in the upper stationary hood, the provision of a feed screening means, a conveyor in communication with said solids-feeding means and adapted to convey material passed by said screening means to said solids-feeding means, a stationary preheating chamber above the inlet end of the rotary kiln and communicating with the solids-feeding means, means for delivering solids not passed by said screening means into said preheating chamber, upon a bed of similar solids therein, valve means at the bottom of said preheating chamber for controlling gravitational movement of solids therefrom into said solids-feeding means whereby to maintain a bed of such solids in said preheating chamber, means adjacent the bottom of said preheating chamber for establishing and maintaining a lower open space therein adjacent a lower free surface of a bed of solids contained in said preheating chamber, a conduit communicating between the

upper stationary hood of the rotary kiln and the lower open space of the preheating chamber, a stationary cooling chamber below the discharge end of the rotary kiln and communicating with the latter in substantially gas-tight manner, a conduit for gravitationally directing solid product discharged from the lower end of the rotary kiln into the upper end of said cooling chamber, valve means at the bottom of said chamber for controlling gravitational discharge of solid product from said chamber, means for establishing and maintaining in said cooling chamber a gas-



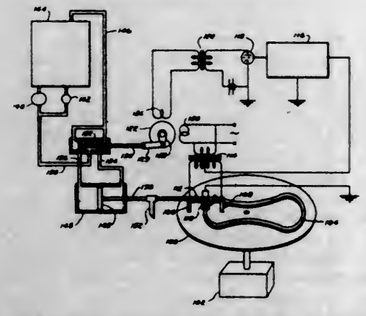
collecting space above and contiguous with an upper free surface of a bed of solid product maintained in said cooling chamber, a gas conduit communicating between said gas-collecting space and a fuel burner in the lower stationary hood of the rotary kiln, and means for forcing a current of combustion-supporting gas upwardly through said cooling chamber into and through said gas-collecting space, said gas conduit, the burner, the rotary kiln, the lower open space of the preheating chamber, and upwardly through said preheating chamber.

2,590,091

MAGNETIC PROCESS CONTROL

George C. Devol, Greenwich, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware

Application April 3, 1946, Serial No. 659,223
23 Claims. (Cl. 318—18)



15. A contour tracer including a body incorporting a magnetically distinctive contour, means differently responsive to magnetic differences including a sensing element including a magnetic core and means separate and distinct from said contour or the motion thereof for producing magnetic variations in said core, said core coacting with said contour, and an actuator controlled by said responsive means for maintaining said sensing element in predetermined proximity to said contour.

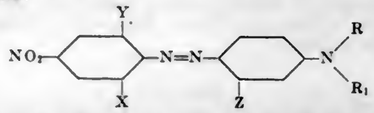
2,590,092

NITROBENZENEAZO-N-DIFLUOROALKYL-N-HYDROXYALKYLANILINE DYE COMPOUNDS

Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application August 6, 1949, Serial No. 109,056
7 Claims. (Cl. 260—207.3)

1. The azo compounds having the general formula:



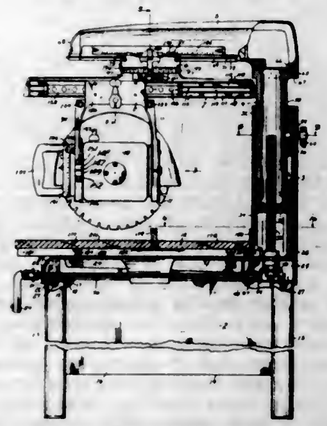
wherein R represents a member selected from the group consisting of a β-sulfatoethyl group, a γ-sulfatopropyl group and a sulfated β,γ-dihydroxypropyl group, R_1 represents a member selected from the group consisting of a 2,2-difluoroethyl group, a 2,2-difluoro-n-propyl group, a 3,3-difluoro-n-propyl group, a 3,3-difluoro-n-butyl group and a 4,4-difluoro-n-amyl group, X represents a member selected from the group consisting of a hydrogen atom, a bromine atom and a chlorine atom, Y represents a member selected from the group consisting of a hydrogen atom, a bromine atom, a chlorine atom, a fluorine atom, a methylsulfone group and a trifluoromethyl group and Z represents a member selected from the group consisting of a hydrogen atom, a bromine atom, a chlorine atom, a methyl group and an ethyl group.

2,590,093

HAND-OPERATED MOTOR-DRIVEN RADIAL MACHINE TOOL

Carl F. Duerr, Jr., Gates Mills, Ohio, assignor, by mesne assignments, of 30/100 to Ralph R. Roemer, 35/100 to Louise E. Roemer, 25/100 to William R. Kiefer, and 10/100 to J. Everette Tompkins, all of Cleveland, Ohio

Application January 18, 1946, Serial No. 641,980
15 Claims. (Cl. 143—6)



13. In a machine tool having a work table and an arm overhanging the work table; a pivot bearing construction mounted for reciprocation along said arm; a trackway pivotally supported on said pivot bearing construction and thereby adapted to be swung over said work table to different angular positions with respect to said arm; a carriage supported for reciprocation along said trackway, said carriage being adapted to support a tool over said work table.

2,590,094

METHOD AND MATERIAL FOR PREVENTING THE TARNISHING OF SILVERWARE

Birger Egeberg, Meriden, Malcolm A. Orr, Southington, and Jean P. Phaneuf, Meriden, Conn., assignors to The International Silver Company, Meriden, Conn., a corporation of Connecticut

Application May 12, 1948, Serial No. 26,598
6 Claims. (Cl. 139—425)



1. The method of making a woven textile fabric material for protecting silverware and the like from tarnish which comprises incorporating at intervals in the fabric during the weaving thereof threads of a suitable tarnish prevention metal and then napping the fibrous threads to conceal the metallic threads.

2,590,095

SILVERWARE CONTAINER

Birger Egeberg, Meriden, Malcolm A. Orr, Southington, and Jean P. Phaneuf, Meriden, Conn., assignors to The International Silver Company, Meriden, Conn., a corporation of Connecticut

Application September 30, 1948, Serial No. 51,882
4 Claims. (Cl. 117—29)



1. A silverware container having a coating on the inner side thereof comprising a layer of adhesive, particles of metallic silver scattered over and secured in place by said adhesive, and porous fibrous organic flock material anchored by said adhesive and extending over and concealing the silver particles.

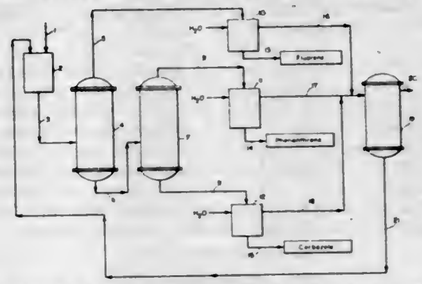
2,590,096

PURIFICATION OF PHENANTHRENE BY AZEOTROPIC DISTILLATION

Julian Feldman and Milton Orchin, Pittsburgh, Pa.

Application March 14, 1951, Serial No. 215,617
10 Claims. (Cl. 202—42)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method for the purification of phenanthrene by the removal of fluorene and carbazole from admixture therewith comprising the steps of distilling the impure phenanthrene at sub-atmospheric pressures in the presence of an entrainer selected from the group consisting of



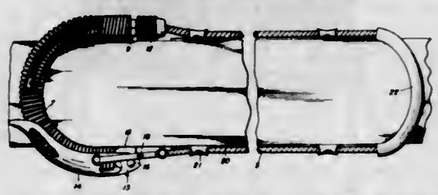
diethylene glycol, triethylene glycol, tripropylene glycol, tetradecanol and heptadecanol.

2,590,097

SKI BINDING

Donald A. Goodman, McCall, Idaho

Application January 5, 1948, Serial No. 484
7 Claims. (Cl. 280—11.35)



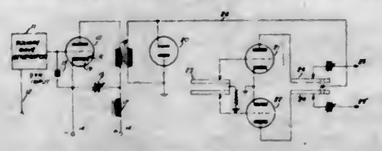
1. A ski binding comprising an endless flexible member including elastic and inelastic sections adapted for placing over the toe and heel portions respectively of a ski boot, guide means carried by a ski on which the boot is placed, said guide means being positioned adjacent the toe and heel portions of the boot and engaging the flexible member to exert a downward pulling force on both the toe and heel portions of the boot, and a tightening device for said flexible member, said tightening device comprising a lever pivoted to one end of the elastic section and a link connecting the lever to the adjacent end of the inelastic section, said lever being swingable inwardly to move the link beyond the pivot of the lever to lock the lever in its tightening position.

2,590,098

THYRATRON MODULATOR

John P. Hagen, Arlington, and Alden H. Ryan, Alexandria, Va.

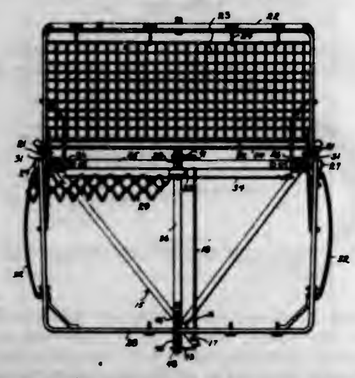
Application July 3, 1943, Serial No. 493,354
10 Claims. (Cl. 171—97)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



9. A pulse modulator circuit comprising, an alternating current power source, a power transformer having primary and secondary windings, means connecting the primary winding to the power source, a pulse transformer having primary and secondary windings, a charge storage device, an impedance means, a grid controlled gaseous discharge device having a cathode, an

anode and a grid, means connecting the impedance means and the storage device in series across the secondary winding of the power transformer to form a closed circuit, means connecting the primary winding of the pulse transformer and the anode-cathode path of the gaseous discharge device in series across the storage device, and phase shift means connecting the grid of said gaseous discharge device to said power transformer at a point operative to hold said grid negative relative to the cathode to maintain the gas tube nonconductive while the storage means is charging and to initiate a discharge in said tube when the charge in said storage device is a maximum.

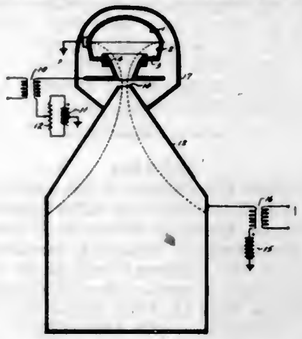
2,590,099
ANIMAL TRAP
Charles L. Hancock, Tuthill, S. Dak.
Application May 6, 1947, Serial No. 746,201
4 Claims. (Cl. 43—63)



1. An animal trap comprising a triangular shaped base having angularly disposed side members with extended ends and a transverse member connecting the said side members and spaced from the ends thereof, a pair of U-shaped frames with wire mesh thereon having end and side members providing first and second frames, hinge pins on the transverse member of the triangular shaped base on which the side members of the U-shaped frames are pivotally mounted, means temporarily attaching the side members of the said first frame to the extended ends of the side members of the base for retaining the said first frame in an extended position in relation to the base, latch means including a trigger and actuator pedal for securing the second of said U-shaped frames against the base, and resilient means adapted to move the said second frame to closed position against the first frame as the latch means is sprung.

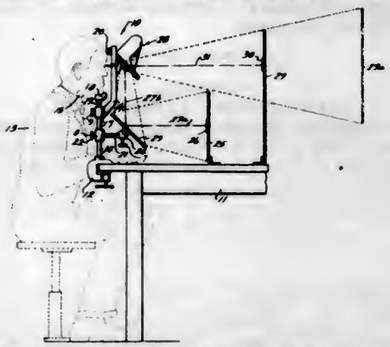
2,590,100
POWER AMPLIFIER TUBE
Oskar Heil, Konstanz, Germany
Application February 3, 1949, Serial No. 74,282
7 Claims. (Cl. 313—83)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. An amplifier tube comprising an electron gun for producing a beam of electrons of high density, said gun containing means for modulating the current in said beam in accordance with a signal to be amplified, and an anode of conductive material having a cavity fully closed except for an opening slightly larger than the cross-section of said electron beam, said anode being positioned with said opening close to said electron gun and in axial alignment with the electron beam produced thereby so that said



electron beam passes into said cavity through said opening immediately after leaving said electron gun.

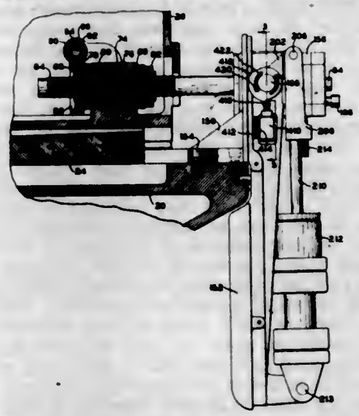
2,590,101
TACHISTOSCOPE
Ulrich K. Henschke, Garmisch-Partenkirchen, and Hans A. Mauch, Rottweil-on-the-Neckar, Germany
Application April 18, 1949, Serial No. 88,202
4 Claims. (Cl. 88—20)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a tachistoscope, a first display, a second display, shutter means comprising movable reflecting means shiftable to two positions whereby to bring alternately into view the first display and the second display, said shutter means being positioned substantially at a point from which both displays are observable, electromagnetic means connected with said shutter means for controlling the shifting of said shutter means and timing means connected to the shutter means for controlling the period during which the second display is presented, an interval timer electrically connected to the timing means for indicating the duration of the time interval during which the second display is presented, whereby the time of observation may be determined.

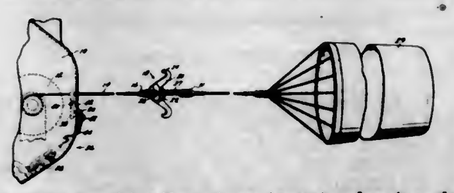
2,590,102
MACHINE TOOL
Cecil W. Hopkins, Waynesboro, Pa., assignor to Landis Machine Company, Waynesboro, Pa., a corporation of Pennsylvania
Application November 19, 1948, Serial No. 61,018
17 Claims. (Cl. 51—103)

6. In work feeding mechanism for machine tools, a supporting bracket for attachment to the machine bed, said bracket having a housing portion, a shaft extending axially through said housing and adapted to be operatively connected to a work feeding slide mounted on the machine bed, power operated means carried by said bracket,



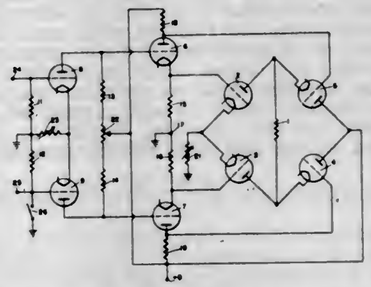
means in said housing for transmitting axial thrust to said shaft to advance and retract the slide comprising eccentric members mounted in opposite sides of the housing wall, and means operatively connecting said power operated mechanism to said eccentric members.

2,590,103
AUTOMATIC AERIAL TARGET RELEASING DEVICE
Le Roy S. Jessen, Dayton, Ohio
Application March 28, 1950, Serial No. 152,435
4 Claims. (Cl. 273—105.3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. The combination, in a target releasing device, of a cable drum, a main cable windable on said drum, a clevis fast on the trailing end of said main cable, a pair of angularly spaced hook arms hinged at the leading ends between the arms of the clevis, a ring-and-sleeve assembly comprising a ring normally positioned to surround said main cable and adapted to be drawn along said main cable and forced over said angularly spaced hook arms to reduce their angular spacing, and a sleeve attached to said ring by a short cable, a wishbone shaped fork spanning the outside of said ring and pivoted at opposite points thereon, swivel means connecting said wishbone shaped fork to said cable, a pair of ring retaining hooks on the outside of said arms near the free end, a pair of target releasing hooks on the inside of said arms near the hinge end, whereby, when the ring is drawn over the hook arms by the sleeve, the target releasing hooks are spread apart to release the target and the ring is retained by the ring retaining hooks, resilient means to force the free ends of said hook arms apart, and stop means to prevent the angular spacing of said arms being changed beyond a predetermined value.

2,590,104
DIRECT-COUPLED AMPLIFIER
Howard L. King, Vancouver, Wash., assignor to the United States of America as represented by the Secretary of the Interior
Application November 3, 1950, Serial No. 193,999
4 Claims. (Cl. 179—171)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an amplifying circuit the combination of a bridge circuit comprising four electronic amplifiers connected in pairs the first pair of two connected together at the plates, and the second pair of two connected together at the cathodes, the pairs being connected with the cathodes of the first pair being respectively connected to the plates of the second pair, a source of plate current connected to the junction of the plates of said first pair and to the junction of the cathodes of said second pair, an output circuit connected between the two said cathode-plate junctions of the pairs, and means completely external of said bridge circuit for exciting the grids of said amplifiers so that the two grids of each pair are excited in opposite phase.

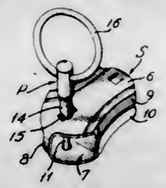
2,590,105
PRODUCTION OF FATTY ALCOHOLS
Eric C. Kunz, Montclair, and Alphonse T. Fiore, Teaneck, N. J., assignors to The Givaudan Corporation, a corporation of New Jersey
No Drawing. Application June 22, 1945, Serial No. 601,066
9 Claims. (Cl. 260—638)

1. The process for preparing saturated aliphatic alcohols containing eleven to eighteen carbon atoms in the molecule, which comprises reacting an aliphatic carboxylic acid having eleven to eighteen carbon atoms, a copper salt of such acid and hydrogen, under elevated temperature and pressure said acid being present at the start of the reaction in preponderating amount in comparison with said salt.

2,590,106
SLIDE FOR HOOKLESS FASTENERS
Samuel J. Lackritz, New York, N. Y., assignor to Kee Zipper Corporation, New York, N. Y., a corporation of New York
Application May 10, 1946, Serial No. 668,678
13 Claims. (Cl. 24—205.15)

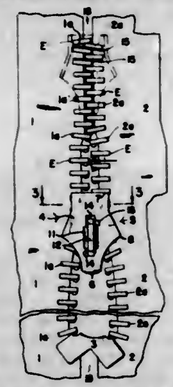
1. A hookless fastening assembly, wherein a succession of stringer-borne elements are moved into and out of engaged positions by the movement of a slider in the direction of length of the stringers, said slider having an open end; wherein the slider is formed with means for moving said stringer-borne elements into engaged positions by slider advance in one direction, said slider carrying a release member, for releasing

said stringer-borne elements from the engaged positions by slider advance in the opposite direction, and wherein the slider is formed to permit such slider means to be rendered active and inactive with the stringer-borne elements at will, an assembly of such type characterized by said slider being of sheet metal and having opposing planar walls connected at one connection end which is opposed to said open end by a biasing resilient wall connection, said walls being flanged toward each other to produce a slider element moving means, said resilient wall connection permitting relative movement of the opposing walls to render the means active or inactive relative to the stringer-borne elements at will, said release member being turnably connected to said bottom wall and extending through an opening of said top wall and being movable pivotally about



its axis relative to both walls, said release member having control means which are operative in one position of said release member to maintain the walls substantially parallel to thereby render the slider means active with the slider-borne elements and said control means being operative in another position of said releasable member to permit said walls to move relatively by resilient connection activity to positions inclined relative to each other to thereby render the slider means inactive with such elements, the configuration of said control means being such as to constitute said release member a controlling agency for the walls and also to cooperate with the stringer-borne elements in moving the latter from their closed positions to their open positions by slider movement in one direction.

2,590,107
HOOKLESS FASTENER DEVICE
Samuel J. Lackritz, New York, N. Y., assignor to Kee Zipper Corporation, New York, N. Y., a corporation of New York
Application October 20, 1948, Serial No. 55,480
3 Claims. (Cl. 24—205.15)



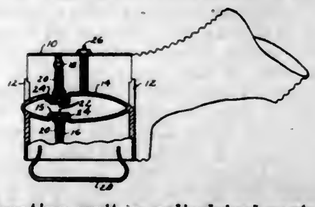
1. A slide for longitudinally disposed hookless fasteners, said slide having longitudinal top and bottom walls, said walls having front and rear ends, said rear ends being integral with a resilient rear transverse yoke which biases said walls transversely away from each other to selected separated positions, said walls having flange means which are operative and located to slidably engage and interlock the hookless fasteners when said slide is moved longitudinally rearwardly relative to said hookless fasteners, a transverse pin turnably connected to the bottom wall of said slide and extending through an opening of said top wall and being turnable about its axis relative to both walls, said pin having an enlarged head, the bottom portion of said head being cam-shaped, said head abutting the upper face of said top wall in a first turned position of said pin to force said longitudinal walls toward each other from said selected separated positions to selected proximate positions, said cam portion of said head being positioned within said top wall hole in a second turned position of said pin to release said walls to permit them to move to said selected separated positions, said walls being closer to each other in said selected proximate positions than in said selected separated positions, said cam portion of said head and said top wall hole being cooperatively shaped whereby said pin may be moved from its second turned position to its first turned position by exerting a force of rotation on said head about the axis of said pin, said pin being located and operative to separate said hookless fasteners when said slide is moved longitudinally forwardly.

2,590,108
CHLORINE COUNTER
Sidney H. Liebson, Washington, D. C.
Application April 30, 1948, Serial No. 24,294
8 Claims. (Cl. 313—93)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An ionization pulse counter tube comprising an envelope, a pair of electrodes therein, and a gaseous filling therefor consisting essentially of chlorine and a noble gas lighter than radon in an amount less than 2.5% thereof.

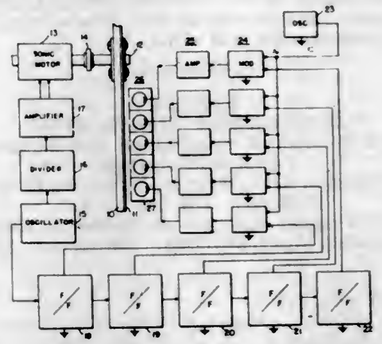
2,590,109
HEATER BASED ON UTILIZATION OF JET PROPULSION UNITS
Bernard Lindenbaum, Dayton, Ohio
Application March 8, 1948, Serial No. 13,735
4 Claims. (Cl. 126—110)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a heating unit, a cylindrical casing open at the ends, fuel supply means carried within said casing and having a bearing portion, means for holding said fuel supply means in said casing with said bearing portion coaxially positioned therein,

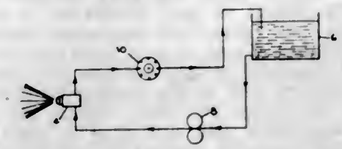
a bladed fan rotatable about the axis of said portion, a plurality of ramjets carried on the blades of said fan, said ramjets all being oriented to produce torque in the same direction, said blades having fuel ducts extending from said bearing portion through said blades to said ramjets, and said bearing portion having a passage communicating said supply means with said ducts.

2,590,110
SYSTEM FOR PRODUCING AN ENCODING DEVICE
Bernard Lippel, Red Bank, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application April 3, 1951, Serial No. 219,102
13 Claims. (Cl. 177—380)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



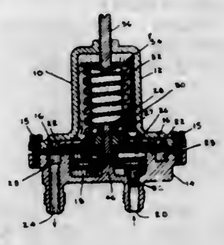
1. A system for dividing a surface of revolution into aliquot parts comprising a surface of revolution rotatable about its axis and an index member in operative relation thereto, a source of reference frequency, means operatively controlled by said source for rotating said surface uniformly at a chosen frequency which is a sub-multiple of said reference frequency, means for electrically producing energy having a fundamental frequency which is a chosen sub-multiple of said reference frequency and higher than said first mentioned sub-multiple frequency and means comprising said index member operatively controlled by said last mentioned frequency for marking said surface at time intervals which divide said surface into aliquot parts.

2,590,111
FUEL OIL CONTROL SYSTEM
Calvin D. MacCracken, New Rochelle, N. Y., and Charles W. Wood, Nutley, N. J., assignors to Jet-Heet, Inc., Englewood, N. J., a corporation of New York
Application January 13, 1949, Serial No. 70,773
3 Claims. (Cl. 158—36.3)



1. A system for supplying to a burner a constant atomized flow of liquid fuel subject to variations in viscosity due to changes in its temperature, said system comprising, a fuel atomizer of the return-flow type, means for supplying fuel to said atomizer under pressure, a return flow pipe for conducting unatomized fuel away from said atomizer, and a pressure actu..ted throttling device in said pipe, said device including temperature responsive means bathed by the fuel flowing through said device and arranged to increase the throttling effect of said device upon an increase in fuel temperature and to decrease the throttling effect of said device upon a decrease in fuel temperature, whereby the flow of atomized fuel from said nozzle is maintained substantially constant notwithstanding variations in its temperature.

2,590,112
TEMPERATURE-RESPONSIVE THROTTLING VALVE
Calvin D. MacCracken, Tenafly, N. J., and Charles W. Wood, Dayton, Ohio, assignors to Jet-Heet, Inc., Englewood, N. J., a corporation of New York
Original application January 13, 1949, Serial No. 70,773. Divided and this application November 13, 1950, Serial No. 195,202
6 Claims. (Cl. 236—92)

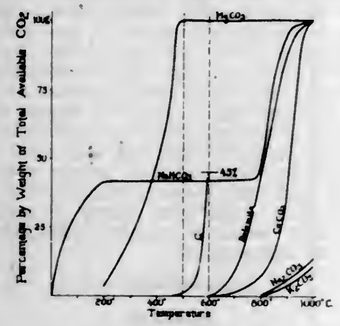


1. A temperature-responsive throttling valve for liquid fuel subject to variations in temperature and adapted to increase the throttling effect with increase in temperature comprising, a casing having a chamber, a valve seat surrounding said chamber, a flexible diaphragm overlying said seat and forming a wall of said chamber, said casing having a fuel inlet communicating with said chamber and a fuel outlet communicating with the space outside said valve seat, resilient means positioned on the opposite side of the diaphragm from said chamber urging said diaphragm toward said seat, and a thermally responsive pressure element in said chamber bathed by the fuel passing therethrough and acting in opposition to said resilient means to increase and decrease the closing pressure on said diaphragm according, respectively, to an increase or decrease in temperature of the fuel in said chamber.

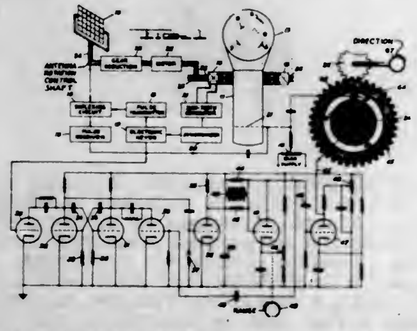
2,590,113
GEOCHEMICAL PROSPECTING
Eugene McDermott, Dallas, Tex.
Application March 12, 1947, Serial No. 734,072
3 Claims. (Cl. 23—232)

1. In a method of geochemical prospecting for petroleum in which soil samples are collected and analyzed, the steps which comprise subjecting the soil samples to combustion at a temperature of about 500° C. until organic matter is destroyed and CO_2 is eliminated from soil components which produce the same upon heating to 500° C., subject the said soil samples to a fur-

ther heating to a temperature of about 600° C. in an inert atmosphere, thereby producing additional CO_2, and measuring such additional CO_2 so produced.



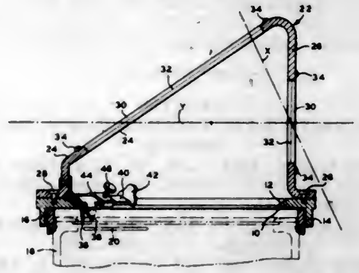
2,590,114
CATHODE-RAY INDICATOR
Millard S. McVay, Washington, D. C., and John H. Greig, New York, N. Y.
Continuation of application Serial No. 441,732, May 4, 1942. This application December 26, 1947, Serial No. 794,074
8 Claims. (Cl. 315—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



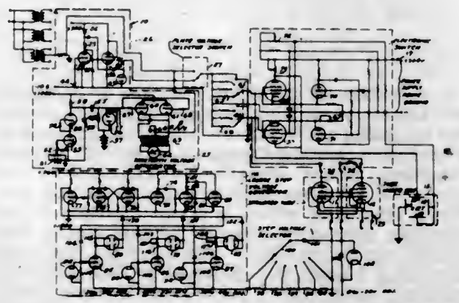
1. A cathode ray indicator comprising a cathode ray tube having means for generating a beam and an indicator screen for receiving the beam, sweep means for deflecting the beam radially of the screen, sweep control means operative to control the direction of the radial sweep, beam control signal generator means operative to modulate the beam intensity to provide a reference indication on the radial sweep, and variable time delay means becoming operative in definite time relation with the sweep means to initiate operation of the signal generator means to provide a reference indication on the radial sweep.

2,590,115
BEARING CIRCLE
Charles W. Merriam, Jr., Taunton, and William L. Morey, Melrose, Mass.
Application October 26, 1945, Serial No. 624,921
6 Claims. (Cl. 33—72)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A bearing circle comprising a ring adapted to be mounted for rotation with respect to a bearing indicating card, a sight having an inclined vane extending from said ring at one side to a point directly above said ring at the opposite side thereof and a substantially erect vane integral with said inclined vane, said erect vane being fixed to said ring at the said opposite side thereof, and a pointer mounted on said ring for adjustment in azimuth at each side of a position of alignment with said sight.

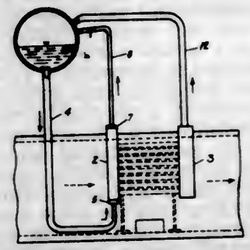


2,590,116
VACUUM TUBE COMPARATOR
Warren P. Moland, Dorchester, and Howard H. Ferris, Milton, Mass.
Application April 10, 1951, Serial No. 220,324
5 Claims. (Cl. 315—370)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A device for visually indicating for comparison the static characteristic curves of plate voltage versus current, of a pair of vacuum tubes comprising a cathode ray tube having a fluorescent viewing screen and two sets of beam deflecting means operative to deflect the beam simultaneously in planes parallel to mutually perpendicular coordinate axes respectively, a pair of plate circuits each having an identical load resistance therein each circuit being operatively associated with one of said pair of vacuum tubes, a saw-tooth voltage wave generator connected in parallel with said plate circuits and one of the sets of cathode ray beam deflecting means, means for selectively varying the peak voltage of the saw-tooth output of said generator, a pair of amplifiers each operatively connected across the load resistance of one of said plate circuits such that the amplifier output voltage is a measure of the current flow in the associated plate circuit, an electronic switching means connected to said amplifiers and operative to alternately connect the amplifier outputs to the other set of cathode ray beam deflecting means and means for supplying a selected grid voltage to the grids of the vacuum tubes to be compared.

2,590,117
STEAM GENERATOR
Karl Folke Nordlund, Edsviken, Sweden
Application May 11, 1944, Serial No. 535,968
In Sweden May 14, 1943
11 Claims. (Cl. 122—355)



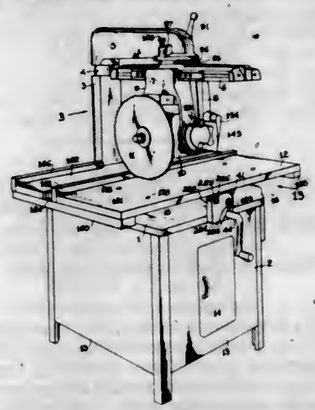
1. A steam generator for natural circulation comprising a plurality of parallel coupled steam generating tubes formed by tube coils of small internal diameter and great length; an elongated inlet header common to the inlet ends of said steam generating tubes, a steam separator above said inlet header and tubes; connections between said steam separator and said inlet header and steam generating coils arranged to form a closed circuit for water and generated steam with defined direction of flow in the steam generating tubes directed from said inlet header to all of said tubes; the connections between said inlet header and said steam separator consisting of at least one descent tube arranged for an uninterrupted flow of the circulation water from the water space of the steam separator by gravity to one end of the inlet header, the lowest point of said descent tube being disposed at least as low as the lower part of the inlet header, and at least one steam escape tube connected to the inlet header at the opposite end thereof above the connection points of the steam generating tubes therewith and to the steam separator above the level of the water therein and further being so dimensioned and arranged that it is able quickly to lead off from the upper portion of the inlet header to the steam space of the steam separator the steam quantities which now and then on account of irregularities in the circulation enter the inlet header and thus prevent these steam quantities from disturbing the circulation process in the circuit as a whole.

2,590,118
MOUTHPIECE
Vincent J. Oddo, Jr., Providence, R. I.
Application October 1, 1949, Serial No. 119,100
3 Claims. (Cl. 128—136)



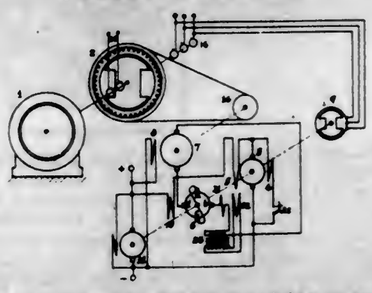
1. A mouthpiece comprising a soft rubber sheath formed to fit over the upper teeth and gums, and a second sheath formed to fit over the lower teeth and gums, said upper and lower sheaths being integrally joined adjacent the rear portions thereof to produce a hinge effect and being separable towards the front portions thereof.

2,590,119
POWER-OPERATED RADIAL SAWING MACHINE
Ervin J. Osterhus, Cleveland, Ohio, assignor, by mesne assignments, of 30/100 to Ralph R. Roemer, 35/100 to Louise E. Roemer, 25/100 to William R. Kiefer, and 10/100 to J. Everette Tompkins, all of Cleveland, Ohio
Application February 9, 1948, Serial No. 7,167
8 Claims. (Cl. 143—6)



4. In a machine tool, a stationary part, and a rotary part adjustably rotatable thereon to a plurality of different positions; means to predetermine said positions relative to each other angularly, comprising a plurality of angularly spaced wedge form index grooves in the rotary part radial to its rotational axis; a pin support supported on said stationary part and having an eccentric through bore; and an index pin supported for longitudinal reciprocatory movement in said bore and having a tapering end portion reciprocable with the pin into and out of engagement with said grooves selectively and being adjustably movable on the stationary part transversely with respect to a pin engaged groove upon rotation of said pin support, to accurately adjust all of said positions of the rotary part relative to the stationary part.

2,590,120
SPEED CONTROL SYSTEM
Joseph Maximus Pestarini, Staten Island, N. Y.
Application September 23, 1948, Serial No. 50,732
5 Claims. (Cl. 318—140)



1. In a power system comprising a machine consisting of two members rotatable about a common axis, one of said members being mechanically coupled to a power shaft rotating at a predetermined speed, a speed regulator dynamo rotatable at a critical speed, said dynamo including a field winding operative to self excite

said dynamo at said critical speed, an auxiliary dynamo and an amplifier metadyne comprising an armature and at least one stator winding, means for driving said regulator dynamo at a speed proportional to the relational speed between the two members of said machine, means for coupling said auxiliary dynamo to the other rotatable member of said machine, means for connecting a stator winding of said metadyne to said regulator dynamo and means for connecting said auxiliary dynamo with the armature of said metadyne, whereby the two rotatable members of said machine are caused to rotate at a relative speed proportional to the critical speed of said regulator dynamo, independent of the rotational speed of said power shaft.

2,590,121

PROCESS FOR THE PREPARATION OF LYSOZYME FROM ASS MILK

Dagoberto Molina Polo and Alfonso Guillermo Alarcon, Mexico City, Mexico

No Drawing. Application December 11, 1947, Serial No. 791,156
5 Claims. (Cl. 195—66)

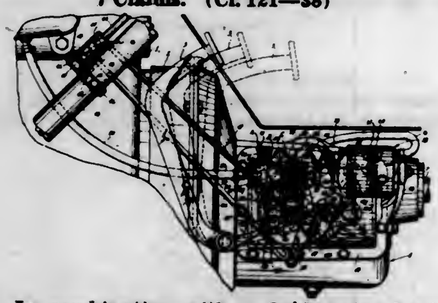
1. The process of extracting lysozyme from ass milk which consists in effecting precipitation with four volumes of acetone, washing precipitate in acetone and ether, extracting lysozyme in solution of alcohol and acetic acid, collecting precipitate in alkaline solution containing dilute sulphuric acid, reducing volume of precipitate by distillation, purifying and concentrating precipitate in weak alkaline solution, repeating purifying and concentrating step of precipitate with addition of sulphuric acid in presence of flavianic acid, washing precipitate with alcohol containing ammonia, washing precipitate with cold alcohol and ether, and finally subjecting precipitate to vacuum desiccation over P_2O_5 at less than ten degrees centigrade.

2,590,122

FLUID ACTUATED MOTOR CONTROL VALVING

Glenn T. Randol, Muncie, Ind.

Application March 22, 1945, Serial No. 584,155
7 Claims. (Cl. 121—38)



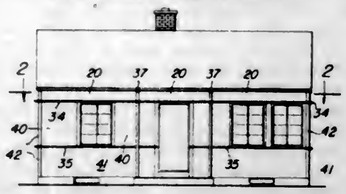
1. In combination with a fluid motor having an element movable reciprocably within a closed cylinder between two extreme positions, a source of fluid pressure different from atmosphere, a first conduit communicating with said source, and additional conduits joining said first conduit to opposite ends of said motor; the improvements which comprise a selecting valve interposed between said additional conduits and said first conduit for selectively connecting one of said additional conduits to the first conduit and the other of said additional conduits with the atmosphere to subject said motor movable element to differential pressure, and a plurality of tandem control valves interposed in said first conduit between said source and said selecting valve including a shut-off valve having an open position for accommodating the flow of fluid therethrough and a closed position, spring means biasing said shut-off valve to closed position, means for opening said shut-off valve against the biasing effect of said spring means, a conditioning valve operable to a first position to vent said conduits therebeyond to said source and to a second position to vent said conduits therebeyond to atmospheric pressure, means for selectively actuating said conditioning valve to its two positions, a restricting valve having a fluid flow control element interposed in said first conduit, spring means biasing said control element toward an open position, cam means actuated by said motor and acting directly on said control element to urge the same toward a closed position against the biasing force of said spring means, said cam means overruling said spring means during actuation of said motor to move said control element to an at least partially closed position to restrict communication of said motor with said source and thereby retard movement of said movable element within said cylinder.

2,590,123

BUILDING CONSTRUCTION AND STRUCTURAL UNITS THEREFOR

George M. Rapp, New Haven, Conn., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York

Application November 19, 1947, Serial No. 786,887
13 Claims. (Cl. 189—1)



1. Wall construction, comprising a plurality of spaced vertical columns, each having a long hollow body provided with laterally, oppositely, and outwardly projecting longitudinal flanges which extend vertically along the length of the column, and at least one horizontal seat formed intermediate the length of the column for the reception and support of horizontally positioned lintel girder units; and a plurality of lintel girder units spanning said columns and secured at their ends thereto in supported engagement with the longitudinal seats formed on said columns, said lintel girder units each having mutually spaced and substantially coextensive outer and inner panel members, an upper plate member having a longitudinal cantilever margin which overhangs the said inner panel member, a lower longitudinal framing member, and vertically-extending bearing stiffeners interposed between said outer and inner panel members at intervals along the length of the unit.

2,590,124

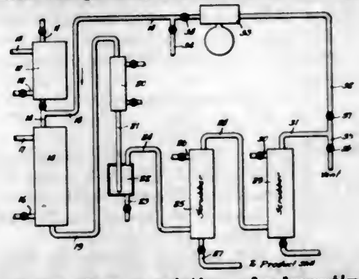
PARTIAL OXIDATION OF HYDROCARBONS USING GASEOUS SULFUR TRIOXIDE

William H. Reeder, III, Olean, N. Y., assignor to Clark Bros. Co., Inc.

Application June 8, 1946, Serial No. 675,372
25 Claims. (Cl. 260—604)

1. The method of oxidizing saturated aliphatic hydrocarbon gases to form partially oxygenated compounds containing residual hydrogen including compounds containing the carbonyl group

which comprises admixing such gases with sulfur trioxide in vapor form in the absence of free oxygen and contacting the mixed gases with a contact mass comprising an adsorptive catalytic ma-



terial of the class consisting of adsorptive carbonaceous, silicious and aluminiferous materials while maintaining a temperature in the range from about 175° to about 450° C.

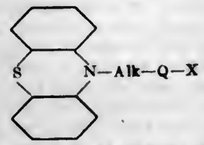
2,590,125

10-(QUATERNARY-AMMONIUM ALKYL) PHENOTHIAZINE SALTS

Richard A. Robinson, Morton Grove, and John W. Cusic, Skokie, Ill., assignors to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois

No Drawing. Application June 6, 1947, Serial No. 753,050
10 Claims. (Cl. 260—243)

1. A 10 - (quaternary - ammonium - alkyl) - phenothiazine salt having the following structural formula



wherein Alk is a lower alkylene radical, X is one equivalent of an anion, and Q is a quaternary ammonium radical of the group consisting of NRR'R'' and



in which R, R' and R'' are lower alkyl radicals and Z is a lower alkylene radical which with N forms a saturated monocyclic heterocyclic radical in which the sole hetero element is nitrogen and which contains at least 5 and not more than 6 ring members.

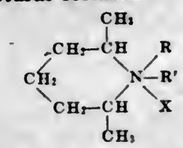
2,590,126

QUATERNARY AMMONIUM SALTS OF 2,6-LUPETIDINE

Richard A. Robinson, Morton Grove, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois

No Drawing. Application March 10, 1948, Serial No. 14,164
4 Claims. (Cl. 260—293)

1. A new composition of matter having the following structural formula



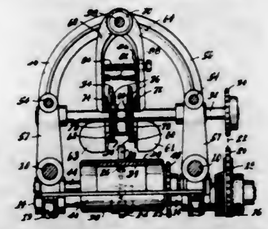
wherein R and R' are members of the group consisting of alkyl and alkenyl radicals, and X is a monovalent anion, and wherein the total number of carbon atoms of R and R' is at least 3 and not greater than 10.

2,590,127

PACKAGE END SEALING MECHANISM

Oscar Sandberg, Defiance, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana

Application July 29, 1946, Serial No. 686,842
4 Claims. (Cl. 53—149)



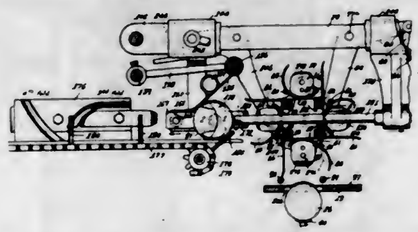
1. In a folding mechanism for the ends of round packages, a pair of angle-shaped members, a belt conveyor opposing the horizontal flanges of said angle-shaped members for rolling packages between their vertical flanges which are engageable with the ends of the package, means for maintaining the portion of the belt conveyor opposing the horizontal flanges in a straight line, an initial conveyor for delivering packages to said belt conveyor, a rotating shaft provided with fingers for engaging the packages and transferring them from the initial conveyor to said belt conveyor, and means to spring bias said horizontal flanges toward said belt conveyor and said vertical flanges toward each other to press against the package during the rolling operation.

2,590,128

METHOD OF WRAPPING GENERALLY CYLINDRICALLY SHAPED ARTICLES

Oscar Sandberg, Toledo, Ohio, assignor to Lynch Corporation, Anderson, Ind., a corporation of Indiana

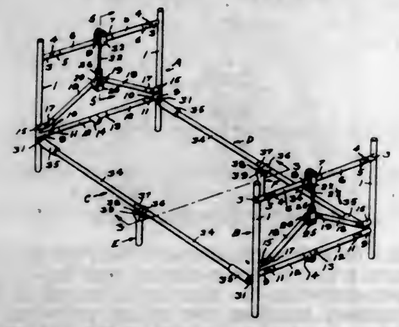
Application November 29, 1946, Serial No. 712,971
1 Claim. (Cl. 53—14)



The method of wrapping a generally cylindrical article having flat end faces which comprises providing about said article a tubular wrapper of heat sealable sheet material having ends projecting beyond the flat article faces, folding the projecting wrapper ends inwardly against each of said article end faces to form flaps, sealing said flaps by application of heat, the resultant wrapping having projections at the base corners of said flaps and having wrinkles at the ends of the tubular wrapping portion, and while at both wrapping ends folding in and heat sealing each of said projections successively, also at the same time subjecting the ends of said tubular

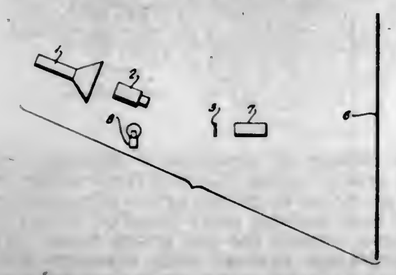
wrapping simultaneously to heat and to a generally tangentially directed compressive force, said subjection to heat and force being effected progressively around the peripheries of said tubular wrapping ends whereby said wrinkles are ironed out.

2,590,129
TRANSVERSELY FOLDING BED
George Kalil Sawaya, Hammond, La.
Application January 6, 1949, Serial No. 69,514
4 Claims. (Cl. 5—176)



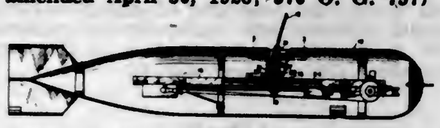
3. In a bed, the combination of a pair of identical end members; and a pair of identical side members, said side members being hinged to said end members, each of said end members comprising a pair of posts, a brace rail hinged to said posts adjacent their upper ends, a second brace rail hinged to said posts adjacent their lower ends, a third brace rail hinged to said posts intermediate said first and second brace rails, each of said brace rails comprising two relatively hinged portions for expansion and collapse of said end members, said hinged portions of said first brace rail being adapted to collapse by swinging only downwardly, and said hinged portions of said second and third brace rails being adapted to collapse by swinging only upwardly, and releasable means to couple said first and third brace rails, when their portions are expanded, to prevent collapse of said portions.

2,590,130
APPARATUS FOR PROJECTING IMAGES FROM TELEVISION RECEIVERS
Max A. Schlesinger, New York, N. Y.
Application March 5, 1949, Serial No. 79,812
3 Claims. (Cl. 177—316)



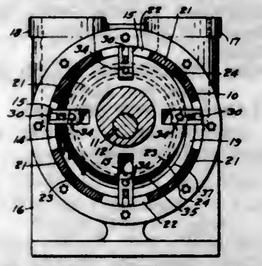
1. An apparatus for producing enlarged images upon a distant receiving screen from a television receiver's cathode ray tube's fluorescent screen, including in combination, a cathode ray tube having a fluorescent image receiving screen, an illuminated screen externally spaced from the tube and disposed to receive the image from the tube, an optical system externally of the tube for concentrating the image of the tube upon the illuminated screen, an enlarged screen spaced from the illuminated screen, a second optical system mounted between the two screens, and a source of light disposed to have its rays projected through the illuminated screen and through the second optical system upon the enlarged screen.

2,590,131
ANCHORING AND CONNECTING MEANS FOR STRAIN-CORED ELECTRICAL CABLES
Erick O. Schonstedt, Minneapolis, Minn.
Application June 5, 1946, Serial No. 674,408
7 Claims. (Cl. 174—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an airborne magnetic detecting apparatus adapted to be supported horizontally and stably beneath an aircraft in flight, the combination of an aerodynamic body for enclosing said apparatus and having a frame for supporting the apparatus, and means including said frame for supporting the body horizontally in stable flight below the aircraft at a point substantially at the center of form, along the vertical center line and above the center of gravity of the body, said body supporting means comprising a cable including a strain core secured to said aircraft and having a plurality of conductors arranged thereabout for transmitting signals between the aircraft and the apparatus, a gimbal assembly including an outer ring pivotally mounted in said frame and an inner ring thereof pivotally mounted within the outer ring such that the rings pivot on axes which intersect at said point of support, a first connector member secured to said inner ring, a second connector member secured to said first connector member and to said strain core, said connector members being constructed and arranged for passing said conductors therethrough adjacent said point of support and into said detecting apparatus whereby signals detected by said apparatus are communicated through said conductors to said aircraft.

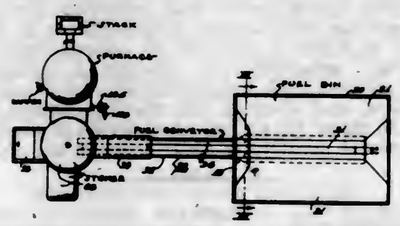
2,590,132
ROTOR CYLINDER ROTARY DEVICE
Frank Scognamillo, Bronx, N. Y., assignor to Scognamillo Engineering Company, New York, N. Y., a company of New York
Application April 15, 1949, Serial No. 87,658
4 Claims. (Cl. 103—121)



1. A rotary device of the character disclosed comprising a housing having spaced end walls connected by a cylindrical peripheral wall forming a cylindrical chamber, said houisng having

spaced inlet and outlet ports opening into said chamber, a cylindrical core projecting from one end wall toward the opposite end wall and disposed eccentrically of the cylindrical chamber, a shaft journaled in the opposite end wall and in said cylindrical core in concentric relation to said cylindrical chamber, a cylindrical rotor carried by said shaft and in rotary running engagement with the peripheral wall of said chamber, said cylindrical rotor having slots therein, a floating rotor journaled on said eccentrically disposed cylindrical core and in running engagement with the inner periphery of said cylindrical rotor at a point between the inlet and outlet ports, and a blade seated in sliding engagement in said floating rotor and projecting through one of the slots in the cylindrical rotor into wiping contact with the cylindrical peripheral wall of the chamber.

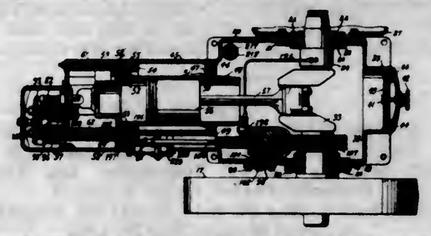
2,590,133
STOKING APPARATUS FUEL STORAGE BIN AND CONVEYER
Chester E. Shaffer, Arlington, N. J., and Albert Boyd Fisher, Jr., Wilkinsburg, Pa., assignors to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application August 1, 1945, Serial No. 608,234
6 Claims. (Cl. 198—53)



1. In combination, a stoker feeder, a separate fuel bin adapted to contain a fuel supply, an apparatus arranged to deliver fuel from the bin to the feeder comprising: an elongated trough connecting the bin with the feeder, a smooth flat plate mounted to reciprocate in the bottom of the trough, guides in the trough extending to the edges of the plate to expose only the upper surface of the plate to the fuel to be transported, driving means secured to the bottom of the plate arranged to reciprocate the plate with a continuing controlled stroke, and means to retard the backward movement of the fuel on the plate whereby on the forward stroke of the plate the fuel feeds along the plate and on the return stroke of the plate, the plate slides under the fuel.

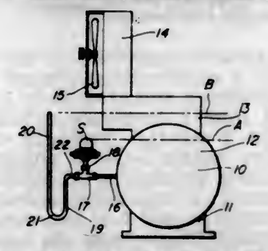
2,590,134
INTERNAL-COMBUSTION ENGINE
John C. Slonneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware
Application March 14, 1946, Serial No. 654,427
13 Claims. (Cl. 123—195)

1. An internal combustion engine including, a crankcase, a crankshaft mounted in the crankcase, a cylinder extending from the case having a piston therein connected with the crankshaft, said crankcase having an opening in one side wall, a plate secured over the opening, a hanger block secured and supported upon the portion of the plate exposed through the opening, and a



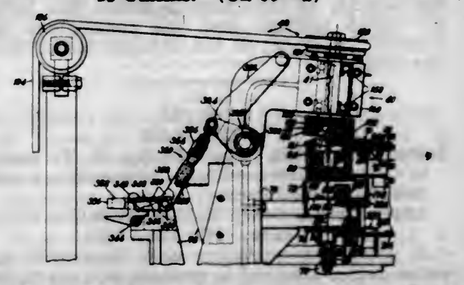
camshaft rotatably carried by the block and rotatably connected with the crankshaft.

2,590,135
SAFETY DEVICE FOR COOLING SYSTEMS
John C. Slonneger, Dallas, Tex., assignor to The Continental Supply Company, Dallas, Tex., a corporation of Delaware
Application May 18, 1949, Serial No. 93,946
4 Claims. (Cl. 123—41.15)



1. A control system for internal combustion engines having coolant jackets, including, an open-ended conductor having one end connected into the coolant jacket and its opposite end open and disposed in a horizontal plane above the point of connection of the conductor into the coolant jacket, a pressure-responsive member in direct communication with the conductor, said member being below the open upper end of the conductor, and means adapted to be actuated by the pressure-responsive member for rendering the engine inoperative.

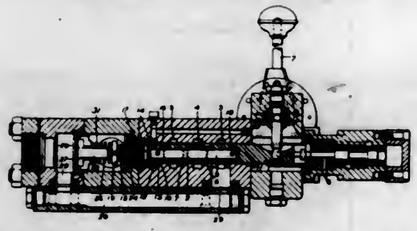
2,590,136
OUTSOLE ROUGHING MACHINE
Ernest W. Stacey, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application November 24, 1950, Serial No. 197,213
45 Claims. (Cl. 69—1)



1. In an outsole roughing machine, a roughing tool rotatable about an axis, said tool having teeth the loci of which, when the tool is rotated, lie substantially in a frusto conical surface, a work support which is arranged in opposed relation to the tool, and means comprising an edge gage for

guiding an outsole upon said work support past the tool, portions of the edge gage engaged by the outsole being positioned between an adjacent portion of said axis of rotation of the tool and the portion of the support engaged by the outsole.

2,590,137
ANTISURGE CONTROL AND EXHAUST VALVE FOR HYDRAULIC APPARATUS
John Maurice Towler, Harrogate, and Frank Hathorn Towler, Otley, England
Application May 24, 1946, Serial No. 672,067
In Great Britain May 25, 1945
7 Claims. (Cl. 121—46.5)



1. In a hydraulic apparatus of the kind specified wherein a reciprocating plunger valve controls the admission and exhaust of pressure liquid to and from a hydraulic cylinder, an exhaust outlet from the hydraulic cylinder, a plunger valve having a valve plunger presenting a transverse pressure area, a resistance element presenting a transverse pressure area in opposed relation to said first mentioned area, an inlet for exhaust liquid from the hydraulic cylinder formed at one end of the plunger valve and a restricted outlet for exhaust liquid formed at the other end of said plunger valve, said inlet and outlet being connected by the interior of said plunger valve, the exhaust inlet of said valve plunger being initially opened to the exhaust outlet of the hydraulic cylinder in a minute amount upon displacement of the plunger valve, the exhaust outlet of the plunger valve being formed as to impose a restriction on the free escape of exhaust liquid flowing through the plunger valve, said areas being exposed to the pressure of exhaust liquid flowing through said plunger valve, whereby the exhaust liquid entering into and passing through the said valve plunger builds up a back-pressure at the exhaust outlet thereof reacting on said areas and sufficient to resist further longitudinal movement of the plunger valve towards increasing the amount of opening of the exhaust inlet thereof until the velocity of the exhaust liquid flow through the valve plunger and the consequent back-pressure produced at the exhaust outlet thereof has fallen.

2,590,138
DISPENSER
Sumner C. Willis, White Plains, N. Y., assignor to Ortho Pharmaceutical Corporation, a corporation of New Jersey
Application October 23, 1948, Serial No. 56,178
1 Claim. (Cl. 128—261)

A combined container and disposable applicator device adapted to contain and inject pharmaceutical formulations contained therein into body cavities; said device comprising a tube including a chamber for pharmaceutical formulations having a discharge opening at one end, a moveable wall in the tube forming the other end of the chamber, said moveable wall being composed of an elastic material and having a diameter slightly larger than the interior diameter of the said tube, an abutment on the tube remote from the chamber, an expansible spring between the abutment and the moveable wall adapted to urge the moveable wall toward the discharge



opening, a spring cup in which the spring is seated and adapted to evenly distribute the force of the spring against the moveable wall, means confined substantially within the tube for compressing the spring and retaining it in a compressed state, said spring being readily releasable from the exterior of the tube.

2,590,139
PROCESS FOR PREPARING CRYSTALLINE STREPTOMYCIN HYDROCHLORIDE
Frank J. Wolf, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application June 4, 1948, Serial No. 31,199
4 Claims. (Cl. 260—210)

1. The process for preparing crystalline streptomycin hydrochloride that comprises dissolving amorphous streptomycin hydrochloride in methanol to form a solution of approximately 40 mg./cc. concentration, diluting a volume of said solution with approximately five volumes of acetone, and allowing the resulting turbid solution to stand for an extended period of time with occasional scratching until crystals are formed.

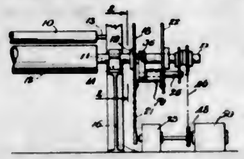
2,590,140
PREPARATION OF CRYSTALLINE DIHYDROSTREPTOMYCIN SESQUISULFATE
Frank J. Wolf, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application January 13, 1949, Serial No. 70,807
7 Claims. (Cl. 260—210)

1. The process for preparing crystalline dihydrostreptomycin sesqui-sulfate that comprises dissolving a quantity of highly purified amorphous dihydrostreptomycin sulfate in water, acidifying the resulting solution to a pH of about 4.5 by addition of sulfuric acid, adjusting the resulting solution to a concentration of approximately 1 to 10 gm. of dihydrostreptomycin sulfate per 100 cc. of solution, adding to the dilute solution a quantity of methanol merely sufficient to produce a faint turbidity in the solution, and permitting the turbid solution to stand until crystals of dihydrostreptomycin sesqui-sulfate form therein.

2,590,141
PREPARATION OF CRYSTALLINE DIHYDROSTREPTOMYCIN SULFATE
Frank J. Wolf, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application April 6, 1949, Serial No. 85,946
10 Claims. (Cl. 260—210)

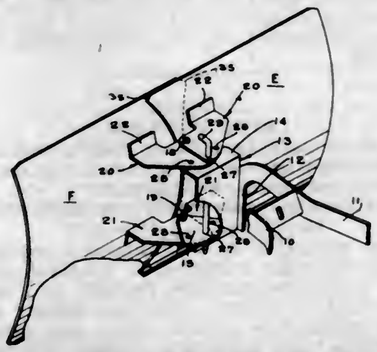
1. The process for producing crystalline dihydrostreptomycin sulfate that comprises preparing an aqueous methanol solution containing dihydrostreptomycin hydrochloride and ammonium sulfate and having a pH of about 4.5, adjusting the concentration of methanol to an amount merely sufficient to produce a faint turbidity in the solution, and allowing the solution to stand with stirring for crystallization of dihydrostreptomycin sulfate therefrom.

2,590,142
FELTING MACHINE
Joseph W. Young, Worcester, Mass., assignor to The Felters Company, Boston, Mass., a corporation of Massachusetts
Application February 11, 1950, Serial No. 143,669
6 Claims. (Cl. 28—5)



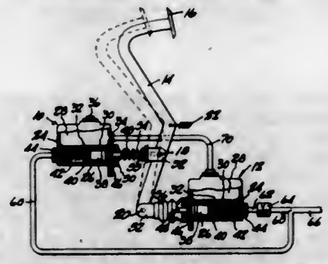
4. In a felting machine, a main shaft having an oscillatable roll fixed thereon, revolving drive means free on the shaft, vibrating mechanism connected to the revolving drive means and keyed to the shaft, independently driven means for actuating the vibrating mechanism and causing the oscillatable roll to vibrate circumferentially about its axis, the revolving drive means cooperating with the vibrating mechanism to impart relatively slow rotative movement to the oscillatable roll as it vibrates, and said vibrating mechanism including an eccentrically driven arm keyed to the shaft.

2,590,143
SNOWFLOW CONSTRUCTION
William J. Adams, Jr., Grafton, and Donald E. Fischer, Cedar Grove, Wis., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application December 16, 1949, Serial No. 133,296
7 Claims. (Cl. 37—53)



1. A snow plow attachment for a garden tractor comprising a mounting bracket adapted to be attached to a garden tractor to extend forwardly therefrom, said bracket comprising a pair of horizontal, vertically spaced apart mounting flanges each having a pivot hole in the forward end thereof and a plurality of positioning pin receiving holes separated from the pivot holes by equal radial distances, the holes in each mounting bracket flange being similar to those in the other, the corresponding holes of each being in superposed alignment with those in the other, a pair of forwardly curved blade sections, a pair of parallel blade flanges extending rearwardly from the convex rear face of each blade section, and adapted to interfit in relatively overlapping relation with the flanges of the mounting bracket, said blade flanges each having a pivot hole adapted to register with the pivot hole in the mounting flanges and positioning pin receiving holes adapted to register selectively with those in the mounting bracket flanges, pivot means in the pivot holes to pivotally connect the flanges of the mounting bracket to the blade flanges, and a positioning pin insertable in selected aligned pairs of superposed positioning pin receiving holes in said mounting bracket and in each blade mounted flange to secure the blade sections in selectively adjusted position to the mounting bracket.

2,590,144
HYDRAULIC ACTUATOR
Kenneth J. Alward, South Bend, Ind.
Application August 14, 1948, Serial No. 44,265
2 Claims. (Cl. 60—54.6)

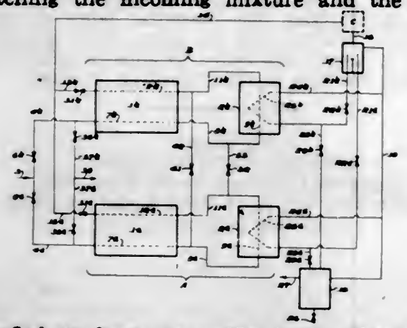


2. A brake operating device comprising a pair of master cylinder units each having a cylinder, a piston reciprocable therein and a reservoir communicating with the cylinder through a compensating port while the piston is at an inoperative position; a pair of pressure outlet lines connected with said cylinders and with a pressure transmitting line; an actuator including a rigid member spring-urged to inoperative position and pivotally connected at spaced points to said pistons and having a point of pressure application unequally spaced from said pivot connections whereby pressure is applied to said pistons unequally, said actuator constituting a foot pedal, said units being adapted to be fixedly mounted and said pivot connections between said pedal and units forming the sole support of said pedal whereby the fulcrum of the pedal will depend upon the relative resistances of said units at all points throughout the stroke of the pedal.

2,590,145
GAS PURIFYING METHOD AND APPARATUS
David Aronson, Greensburg, Pa., assignor to Elliott Company, Jeannette, Pa., a corporation of Pennsylvania
Application April 13, 1950, Serial No. 155,686
6 Claims. (Cl. 62—175.5)

1. Apparatus for continuously purifying a gaseous mixture by heat exchange with a cold liquefied gas, comprising a pair of interchangeable purifiers; each purifier including (1) a heat exchanger provided with a warm end and a cold end and having a first passage for the incoming gaseous mixture that is to be purified and having a second passage for the countercurrent flow of outgoing gaseous mixture that has previ-

ously been cooled and purified, whereby the incoming mixture will be initially cooled by heat exchange with the outgoing mixture and most of the impurities contained in the incoming mixture will be condensed in the first passage of the exchanger, and (2) a liquid cooler having a first passage that connects the cold ends of the first and second passages of the exchanger and having a second passage for the cold liquefied gas, whereby the initially cooled incoming mixture will be further cooled and will be further purified by condensation of its residual impurities in the first passage of the cooler to form said cold purified outgoing mixture; valve means for switching the incoming mixture and the cold



liquefied gas from one purifier to the other when the first passages in the exchanger and cooler of one of the purifiers become obstructed by impurities deposited therein by the incoming mixture; and valve means for directing a portion of the purified outgoing mixture withdrawn from the warm end of the unobstructed purifier after said switching operation to the warm end of the second exchanger passage in the obstructed purifier, whereby said portion will flow successively through said second exchanger passage then through the first cooler and exchanger passages in a reverse direction to the previous flow of mixture therein and will remove the impurities previously deposited in both said first passages of the obstructed purifier.

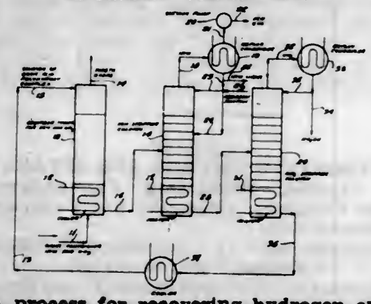
2,590,146

PRODUCTION OF HYDROGEN CYANIDE

George Barsky, New York, N. Y., assignor to Freeport Sulphur Company, New York, N. Y., a corporation of Delaware

Application March 24, 1949, Serial No. 83,132

11 Claims. (Cl. 23—151)



1. A process for recovering hydrogen cyanide from reactant gas mixtures containing the same which comprises intimately contacting the mixture with an aqueous solution of an acidic boric acid-polyhydroxy organic complex thereby dissolving and stabilizing the same and then vaporizing off the cyanide from the resulting solution.

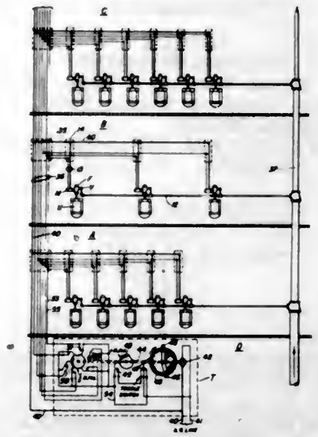
2,590,147

FLUSH VALVE ARRANGEMENT AND INSTALLATION

John I. Bellamy, Brookfield, Ill., assignor to Sloan Valve Company, Chicago, Ill., a corporation of Illinois

Application June 3, 1946, Serial No. 674,136

3 Claims. (Cl. 4—101)



1. In a plumbing system having a plurality of groups of plumbing fixtures, each of said groups including a plurality of said plumbing fixtures, a common water supply for the fixtures of each group, a flush valve for each fixture and an electrically operable actuator for each flush valve; an electrical control system for energizing said electrically operable actuators including main circuit means common to all of said electrically operable actuators and electrically connecting together one side of each thereof, individual circuit means for each electrically operable actuator and connected to the other side of each thereof respectively, and plural branch circuit means each connecting a plurality of different individual circuit means associated respectively with predetermined electrically operable actuators of flush valves, selected one each from several of said fixture groups, and timing switch mechanism for consecutively energizing the branch circuit means to thereby simultaneously actuate the flush valves of selected fixtures only at predetermined timed intervals.

2,590,148

LEVEL CONTROL

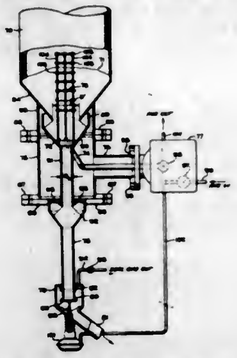
Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application September 22, 1947, Serial No. 775,554

23 Claims. (Cl. 183—4.2)

1. An apparatus for maintaining a column of flowing granular solids at a constant height which comprises movable vertical grid means maintained in contact with said flowing solids and a solids flow control valve, said movable grid means being cylindrical in shape and having perforations sufficient to permit a substantially unimpeded flow of solids therethrough and thereby permit said movable grid means to be acted upon by the frictional and gravitational forces established by said flowing granular solids so as to cause a deflection of said movable grid means in accordance with the varying height of said solids, and said solids control valve adapted to vary the rate of flow of said granular solids in accordance with said deflection.

16. An apparatus for the separation of a gaseous mixture by continuous selective adsorption on a solid granular adsorbent comprising an adsorption column provided with an adsorption zone in the upper portion thereof, a stripping zone in the lower portion thereof, means for introducing said gaseous mixture into the lower portion of said adsorption zone, means for removing the unadsorbed constituents of said gaseous mixture from the upper portion of said adsorption zone, means for introducing stripping gas into the lower portion of said stripping zone, means for removing stripping gas and adsorbed constituents of said gaseous mixture from the upper portion of said stripping zone, an elongated sealing leg below said column and communicating therewith, a solids control valve for controlling the withdrawal of said granular adsorbent from the bottom of said sealing leg, means for conveying said granular adsorbent withdrawn from the bottom of said sealing leg



to the top of said adsorption column, a solids feeder near the lower end of said adsorption column below said stripping zone, said solids feeder being adapted to support a continuous bed of said solids throughout said adsorption zone and stripping zone thereabove and to discharge solids at a controlled rate into a free space in the bottom of said column, and means for automatically maintaining a moving bed of solids in said sealing leg and controlling the level of said granular adsorbent in the free space in the bottom of said adsorption column, said last-named means comprising in combination a vertically elongated and vertically movable grid structure through and around which said granular adsorbent passes, a suspension arm supporting said grid structure, a torsional tube assembly adapted to provide a restoring torque to said grid structure through said suspension arm, and a controller adapted to be actuated by said torsional tube assembly and adapted to actuate said control valve in accordance therewith.

2,590,149

SPICE CAN HOLDER

Roy Burdett, Long Beach, Calif.

Application May 24, 1948, Serial No. 28,876

3 Claims. (Cl. 211—73)



1. A holder for containers having a bead thereon comprising a substantially flat plate having a plurality of struck out portions anchored at both ends and narrowed at their forward ends to permit the beaded portions of the containers to pass through the edges of the struck-out portions.

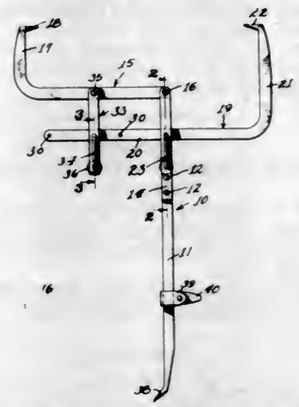
2,590,150

TOOL FOR REMOVING HUB CAPS

Frank J. Brugmann, Greeley, Colo.

Application October 25, 1948, Serial No. 56,431

1 Claim. (Cl. 29—245)



In a tool for removing hub caps, an elongated handle, a first arm having one end pivotally connected to an end of said handle and extending in angular relation with respect thereto, a second arm pivotally connected with said handle intermediate its ends inwardly from the said handle end and substantially parallel with respect to said first arm, angled portions at the outer ends of said arms, inturned hook portions at the outer ends of said angled portions adapted to be engaged behind the edge of a hub cap at opposite points thereon, and means pivotally connecting the inner end portions of said arms outwardly from the pivot connections of the same with said handle, said interconnecting means constituted in a pair of links abutted against the opposite sides of said inner end portions of said arms, the pivot connections between said second arm and said handle and said links being constituted in substantially U-shaped elements carried by said handle and said links, and coil springs mounted on one leg of said elements to releasably tension the other legs thereof in second arm pivoted positions.

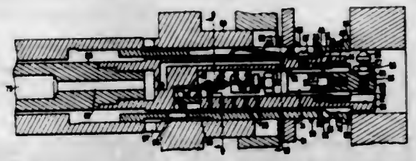
2,590,151

BORE GAUGE HEAD

William J. Bryant, Springfield, Vt., Hesslar H. Gates, Charlestown, N. H., and Thor H. Ljunggren, Springfield, Vt., assignors to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont

Application July 23, 1949, Serial No. 106,476

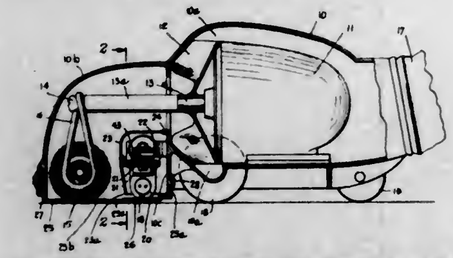
5 Claims. (Cl. 33—178)



4. A gaging mechanism comprising a tubular member for insertion within a hole to be gaged and provided with a pair of angularly spaced

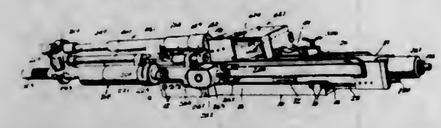
work-engaging anvils, a stem extending through said tubular member and having a portion of substantially smaller diameter than the bore of said tubular member, a work-engaging anvil carried by said stem for engagement with the work angularly spaced from said pair of anvils, and a pivot connection between said stem and member spaced from said anvils, said pivot connection including a diaphragm and a leaf spring secured at opposite ends to said tubular member and stem on the opposite side of said diaphragm from said anvils and limiting the direction of flexure of said stem at said diaphragm to a single plane containing said stem-carried anvil and the axis of said tubular member.

2,590,152
VACUUM CLEANER WITH STERILIZING MEANS
Jefferson P. Buckey, Easton, Conn.; John F. McGowan, administrator of said Jefferson P. Buckey, deceased, assignor to John T. Kilbride, Stratford, Conn.
Application January 16, 1945, Serial No. 573,133
10 Claims. (Cl. 15—319)



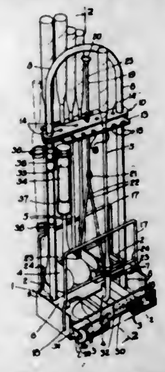
3. A vacuum cleaner having a suction nozzle provided with an open surface-traversing end adapted to be located closely adjacent the surface being cleaned; a germ inactivating ray generator carried within the nozzle immediately adjacent the open end to direct rays against the surface under the nozzle which is being cleaned and exposed to the air sucked through the nozzle to sterilize the surface and said air; and a protective screen interposed between the generator and the surface being cleaned and secured to extend across the nozzle to protect the generator against damage by projections on the surface being cleaned without preventing the rays from engaging the surface or the air from passing into said nozzle through said screen.

2,590,153
AUTOMATIC GUN CHARGER
Earl C. Bunnell, Stratford, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application June 24, 1947, Serial No. 756,743
8 Claims. (Cl. 89—1)



1. In an automatic gun including a receiver, a breechblock slide and, a bolt, having a driving spring, the combination comprising a charging cylinder adjacent the receiver, a piston within said cylinder and adapted to engage a portion of the breechblock slide to charge the gun, a spring for returning said piston to a position ready for a succeeding charging operation, means for admitting compressed air to said cylinder including a timing valve and a quick-release valve, said quick-release valve having a short exhaust path to atmosphere, both said valves being intermediate the source of air and the cylinder, whereby air admitted to said charging cylinder through said timing valve and quick-release valve will retract the breechblock slide and bolt to open-bolt position, and means interconnecting said charging cylinder and quick-release valve to permit release of pressure from said charging cylinder through said quick-release valve to atmosphere and allow rapid return of the bolt to closed-bolt position under bias of the driving spring.

2,590,154
GOLF CLUB CARRIER
Cloyd E. Burns, Fort Pierce, Fla.; May Burns executrix of said Cloyd E. Burns, deceased
Application December 17, 1948, Serial No. 65,821
9 Claims. (Cl. 280—50)

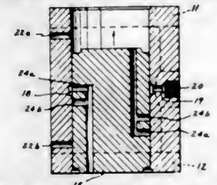


1. A golf club carrier comprising a base having a pair of superposed, vertically spaced, generally horizontal supporting surfaces having depressions in their upper faces of sizes to receive the heads of golf clubs with the shanks of the clubs upright, a U-shaped handle inverted on said base and having the free ends of the arms of the U secured to said base, and with the cross part of the U at the top and constituting a grip by which the base may be moved, a cross member intermediate said handle and base, and formed to receive and detachably hold the upstanding shanks of the clubs, a pair of guards extending crosswise of the shanks of said clubs and hinged to said base at opposite sides thereof, to swing from upstanding positions in directions away from said handle and club shanks to positions in which they project generally horizontally in opposite directions from said base and engage the ground on which the base rests, and means releasably securing said guards in their generally horizontal positions.

2,590,155
SILENT OR SEMINOISELESS VIBRATOR
Edward S. Cannon, Shaker Heights, Ohio
Application July 15, 1948, Serial No. 38,885
4 Claims. (Cl. 121—101)

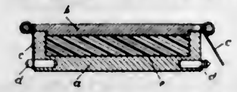
1. A vibration inducing device comprising a cylinder, having means closing said cylinder at each end, said cylinder having exhaust ports near each end and an annular groove at its midsection, duct means opening into said groove for the entry of a compressed fluid thereto; piston means reciprocably disposed in said cylinder

forming a chamber at each end thereof, two internal ducts formed within said piston means, each opening at opposite ends of said piston means; two entry means in the side of said piston means for each internal duct cooperating with said annular groove, the first entry arranged to transmit fluid pressure to said chamber at one



end of the cylinder to initiate motion of the piston, the second entry arranged to transmit additional fluid pressure to said chamber to accelerate the motion of said piston means and on the return stroke to allow pressure to enter the chamber to prevent impact of said piston means with said cylinder closing means.

2,590,156
METHOD OF MAKING CELLULAR THERMOPLASTIC MATERIALS
Pascal J. Carpentier, Paris, France
Application February 27, 1948, Serial No. 11,813
In France February 18, 1947
7 Claims. (Cl. 18—48)

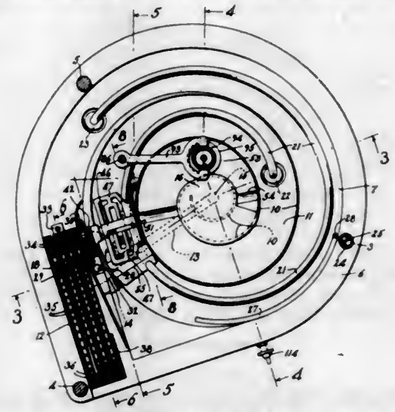


1. Method for producing cellular thermoplastic materials having a polyhedral cell formation, comprising the steps of forming a mass from at least one thermoplastic material into a miniature model of a desired shape while minimizing the amount of air occluded in said mass, locating said model in a mold, placing said mold under pressure, heating the mass while under pressure to an incipient gelatinating temperature, distributing at least one inert gas throughout said mass in an extremely fine and uniform manner under pressure, suddenly reducing the pressure to a controlled but lower degree of super-atmospheric pressure to cause the system composed of the mass and occluded gas to swell, applying heat to further gelatinize the mass, cooling the mass to room temperature, reducing the pressure at atmospheric pressure, demolding the mass and allowing it to expand, heating said expanded mass to a plastic state under atmospheric pressure to further expand said mass, and finally cooling said expanding mass to ordinary temperatures.

2,590,157
DOUGHNUT MACHINE
Frederick W. Corbett, Burbank, Calif.
Application April 26, 1948, Serial No. 23,192
11 Claims. (Cl. 99—406)

2. In a doughnut machine, the combination of a spiral channel cooking vessel adapted to contain a quantity of cooking oil, means for heating said oil, means for dropping blanks of dough into said oil, a pump and a return conduit connected thereto adapted to maintain a circulation of oil along said channel at a constant volumetric rate with resultant propulsion of said blanks along said channel; said channel being of uniform width through its length and of less depth

at the point at which said blanks are dropped than at other points along its length with resultant increase in the linear rate of flow of the



cooking oil at said point and increase in the linear speed with which a dropped blank is moved by said oil out of the vertical path of the next blank to be dropped by said dropping means.

2,590,158
HITCH FOR GANGING A PLURALITY OF IMPLEMENTS IN SQUADRON ARRANGEMENT
Francis A. D'Artenay, Stratford, Calif.
Application September 13, 1949, Serial No. 115,364
5 Claims. (Cl. 97—77)

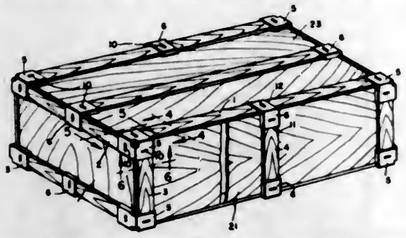


1. A hitch for interconnecting a plurality of implements in a squadron of echelon arrangement and for connecting the squadron to a draft appliance comprising a plurality of endwardly aligned beams pivotally connected for relative horizontal movement, means pivotally interconnecting the implements of the squadron individually to the beams, cables interconnecting the rearward end portion of each beam and a common connecting position on a draft appliance, said cables being of graduated length whereby the beams are aligned angularly to a line of draft upon forward movement of the draft appliance, and a cable connected to the forward end portion of the forwardmost beam and to the draft appliance at a position laterally displaced from the connection of the other cables to said draft appliance to the side thereof toward which the aligned beams are directed.

2,590,159
CORNER FITTING FOR KNOCKDOWN STRUCTURES
William E. Davis, Chicago, Ill.
Application April 5, 1947, Serial No. 739,679
8 Claims. (Cl. 217—65)

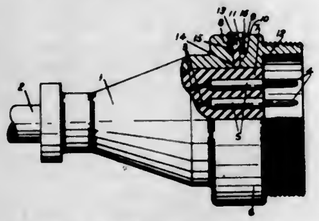
4. A corner device comprising three tubular members having their ends meeting in trans-

versely overlapping right angular relation with each other, the central axis of each member lying in a different plane than the central axis of any



one of the other members, each of said members having an end opening outwardly from the juncture of said members, and said members being secured together to form a unitary body.

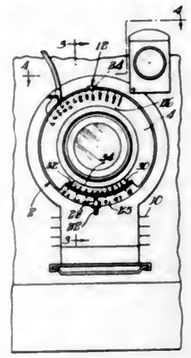
2,590,160
MEANS FOR SEALING CONDUCTOR END STRUCTURES
Henry Johnson Dixon, West Kirby, England, assignor to British Insulated Callender's Cables Limited, London, England, a British company
Application June 7, 1950, Serial No. 166,744
In Great Britain May 12, 1950
1 Claim. (Cl. 174—138)



Electrical apparatus comprising a metal casing having a spew-hole, an outer part of which is of greater cross-sectional area than that of an adjacent inner part, a step being thus formed between the two parts, a mouldable insulating material in the casing, a head of insulating material in the outer part of the spew-hole and a shank of insulating material in the adjacent inner part thereof, a resilient gasket disposed between the head and the step held under elastic compression by the head and forming a seal against the entry of moisture through the spew-hole into the casing, and a conducting member supported by the insulating material in the casing.

2,590,161
CAMERA EXPOSURE CONTROL
Dennis B. Dorsey, Chicago, Ill.
Application July 1, 1948, Serial No. 36,500
1 Claim. (Cl. 95—64)

In a shutter type camera having a lens tube, an exposure time setter adjustable arcuately about the axis of the lens tube, a shutter speed scale with which said time setter cooperates, an exposure opening setter oppositely positioned on the opposite side of said lens tube from said time setter and also adjustable arcuately about the axis of said lens tube, an exposure opening scale with which said exposure opening setter cooperates, an exposure control ring shiftably mounted on said lens tube and having a light rating scale alignable with the time setter to align a number of said scale corresponding to light rating conditions with the time setter, said control ring having a film speed scale and an arcuate notched segment adjacent the exposure opening scale, said exposure opening setter including a resilient arm portion providing an indicator for said film speed scale and said exposure opening scale, said arm traversing said arcuate segment and selectively engageable with the notches there-



in and normally maintained in locked engagement with a notch corresponding to the predetermined setting of the arm with respect to the film speed scale whereby the ring and exposure opening setter and arm are rotated in unison upon variation of the relative settings of the light rating scale and the shutter speed scale.

2,590,162
PROCESS OF IMPREGNATING WOOD WITH SOLUBLE ARSENICAL COMPOUNDS
Viktor Ettel, Prague, Czechoslovakia, assignor to Spolek pro chemickou a hutni vyrobu, narodni podnik, also named United Chemical and Metallurgical Works, National Corporation, Prague, Czechoslovakia
No Drawing. Application April 8, 1949, Serial No. 86,378. In Czechoslovakia April 14, 1948
4 Claims. (Cl. 117—151)

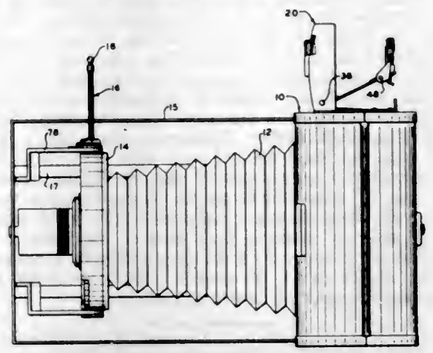
1. A process of impregnating wood, comprising the steps of treating wood with an aqueous solution of a thioarsenite of a concentration of one to three percent, containing as cation a metal selected from the group consisting of Ca, Sr, Ba and Mg, and then allowing the impregated wood to dry in the air, thus transforming the said compound inside the wood into insoluble form.

2,590,163
PRODUCTION OF AN ACID OF THE ASCORBIC ACID TYPE FROM A 2-KETO-HEXONIC ACID
Viktor Ettel, Prague, Czechoslovakia, assignor to Spolek pro chemickou a hutni vyrobu, narodni podnik, also named United Chemical and Metallurgical Works, National Corporation, Prague, Czechoslovakia
No Drawing. Application May 10, 1949, Serial No. 92,520. In Czechoslovakia May 13, 1948
3 Claims. (Cl. 260—344.5)

1. A process for the production of an acid of the ascorbic acid type from a 2-keto-hexonic acid, which comprises enolizing esters of 2-keto-hexonic acid by heating them in a water-free lower alcohol with an alkali compound of amphoteric hydroxides of heavy metals selected from the group Pb and Zn treating this precipitate of a metal salt of ascorbic acid with a substance selected from the group consisting of hydrogen sulphide and sulphuric acid, filtering to obtain

a filtrate containing soluble ascorbic acid, concentrating the filtrate, and working up the concentrate to pure ascorbic acid.

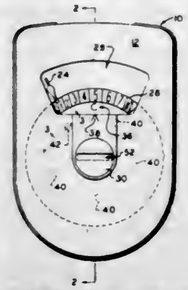
2,590,164
VIEW FINDER CENTERING DEVICE FOR PHOTOGRAPHIC APPARATUS
Murry N. Fairbank, Belmont, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application August 11, 1948, Serial No. 43,680
3 Claims. (Cl. 88—1.5)



1. A view finder centering device adapted to be mounted on a camera having an eye level view finder and to be observed through said view finder when sighting on an object to be photographed, said centering device comprising a resilient columnar member which normally extends in a straight line and which is substantially universally bendable from its straight condition upon the application of a deforming force thereto but which, due to its resiliency, is returnable to said straight condition upon the removal of said force, said columnar member being formed of a tightly coiled helical spring having a high initial tension, hinge means connected to one end of said columnar member and pivotally securing said centering device to said camera, the end of said columnar member away from said hinge means being unsupported and free, and at least one sighting member carried by said columnar member adjacent said free end of the columnar member, said sighting member providing means for locating the center of the field of view observed through said view finder.

2,590,165
BRIGHTNESS METER
Murry N. Fairbank, Belmont, and Louis Rosenblum, Cambridge, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application November 5, 1948, Serial No. 58,518
1 Claim. (Cl. 88—23)

In a brightness meter comprising a housing having a front portion provided with a viewing aperture for observation into the interior of said housing, a pointer mounted within the housing for movement in response to the intensity of light adapted to be directed into the housing, and a dial scale plate, in the form of a relatively flat, circular member having sets of scale markings peripherally arranged around the front face thereof, mounted within said housing between said pointer and said viewing aperture for adjustment in a plane substantially parallel to the front of said housing and also parallel to a plane in which said pointer is movable whereby at least the indicating portion of the pointer and a peripheral portion of said dial scale plate are observable through said viewing aperture, in combination, a mounting member for said dial scale plate, the front portion of said housing being provided with an opening therein through which said mounting member extends and within which said mounting member is rotatably supported and said dial scale plate being provided with a centrally located opening engaged with said mounting member, means for effecting the rotation of said mounting member provided on the end thereof adjacent the outer face of said housing and adapted to be held in rotatable bearing engagement with the outer face of the front portion



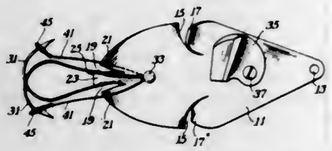
of said housing, fastening means fixedly securing said dial scale plate to said mounting member for rotation with the mounting member, and detent means carried by said housing within the interior thereof and releasably engageable with a portion of said dial scale plate located directly opposite the detent means, said detent means being adapted to restrain said dial scale plate against accidental rotative displacement from a position wherein a set of scale markings is in register with said viewing aperture and said detent means being released from said engagement by rotation of said plate upon the application of sufficient rotative force to said mounting member to overcome the holding action of said detent means.

2,590,166
DEVICE FOR MAKING FLAT CURLS
Anna E. Farrell, Seattle, Wash.
Application February 6, 1950, Serial No. 142,685
1 Claim. (Cl. 132—40)



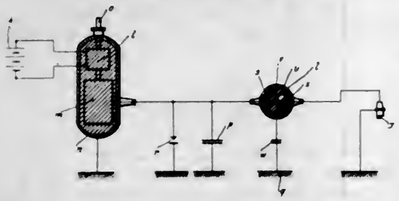
A device for shaping and setting curls of hair on heads, including, a shoulder member, a neck member extended centrally from the shoulder at right angles thereto for a spindle for winding hair and for sustaining hair thereon and having an indent around the same adjacent to the extremity thereof for temporarily preventing coils of hair from escaping from the same in operation and having side rails in spaced relation behind the indent, a pair of arms extended from the ends of the shoulder and conically disposed toward the side rails to provide a frame for winding locks of hair thereover for shaping flat curls and for retaining the curls within the arms for setting the curls, the extremities of the arms having detents normally and flexibly disposed adjacent to the rails of the neck and having grooves along the detents in alinement to the rails for latching beneath the rails for securing the curls of hair within the arms for setting the curls in desired shapes as formed.

2,590,167
FISHING LURE
Michael J. Fasano and Ernest F. Fasano, Rochester, N. Y.
Application October 1, 1946, Serial No. 700,400
7 Claims. (Cl. 43—42.51)



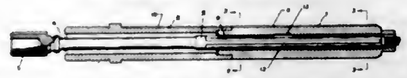
3. A fishing appliance including a plate-like member having a longitudinally extending flat central portion adapted to be drawn through the water, a pair of hooks having shanks including substantially straight portions and curved portions terminating in sharp points, the substantially straight portions of said shanks of said hooks being pivotally mounted on opposite surfaces of said member for swinging movement relative to said member in a plane approximately parallel to the plane of the central portion of said member, and protuberances near the rear end of said member over which the shanks of said hooks may be sprung to hold the shanks resiliently in an effective rearwardly-extending position, each hook being adapted to be swung forwardly from said position and to have the curved portion and point thereof twisted to an ineffective position in which the point lies on the opposite face of said member from the face on which the straight portion of the shank is pivoted and points toward said opposite face in close proximity thereto.

2,590,168
EXPLOSION ENGINE IGNITION
Noël Felici, Grenoble, France, assignor to Centre National De La Recherche Scientifique, Paris, France, a corporation of France
Application February 9, 1948, Serial No. 7,149
In France February 20, 1947
14 Claims. (Cl. 315—223)



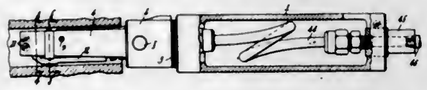
1. An ignition system comprising means providing a source of electrostatic potential difference, a static condenser, a spark gap ignition member, means for intermittently connecting said condenser across said source of electrostatic potential difference to charge said condenser, means cooperating with said intermittent connecting means for discharging said condenser to said ignition member upon interruption of the charging of said condenser and for preventing discharge of said condenser to said ignition member upon charging of said condenser, and means for confining said intermittent connecting means and said means cooperating therewith in a fluid medium having a dielectric strength substantially equal to that of a gas at a pressure not substantially less than 4 atmospheres.

2,590,169
TORSIONAL DRIVE SHAFT
Dwain E. Fritz, Cleveland, Ohio, assignor to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application January 31, 1951, Serial No. 208,815
5 Claims. (Cl. 64—1)



1. In a machine adapted to be driven by a pulsating power source, a hollow tube and a rotor mounted thereon, a torsionally resilient drive shaft mounted in said tube to be driven by said power source, said shaft having a set of radially outwardly extending longitudinal splines for engaging a set of radially inwardly extending longitudinal splines on said tube to constitute a driving connection between said shaft and said tube, at least one of said sets of splines being formed to progressively vary in width toward one end of said shaft so as to mate with progressively decreasing clearance with said other set of splines toward that end of said shaft to provide an inherently infinitely variable torsional spring shaft drive to absorb the vibrations set up by said pulsating power source.

2,590,170
PORTABLE AIR GAUGE
Hesslar H. Gates, Charlestown, N. H., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont
Application June 14, 1947, Serial No. 754,789
5 Claims. (Cl. 33—178)

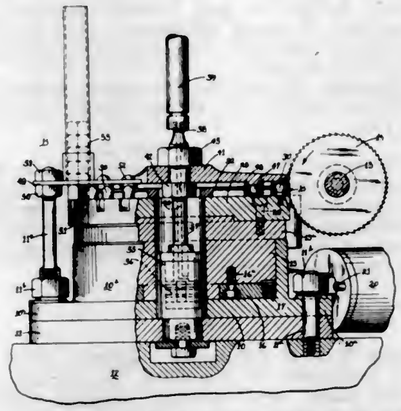


5. A feeler mechanism for an air gage comprising an elongated body having a longitudinally extending slot centrally therethrough, a member pivoted adjacent to one end within said slot for motion parallel thereto, said body having lands extending into said slot and provided with guiding faces for said pivoted member, means limiting the extent of pivotal motion of said member, a second member, a reed pivot supporting said second member on said first mentioned member for pivotal motion parallel to said slot, a work-engaging element carried by each of said members in a transverse plane, a pair of work-engaging elements carried by said body in substantially the same transverse plane with said member carried elements, said members having confronting face portions, one of said members having an orifice through its said face portion, and a conduit connected with said orifice and extending through said one of said members for connection to the indicator of an air gage.

2,590,171
APPARATUS FOR MANUFACTURING NUTS
Edward A. Green, Chicago, Ill., assignor to Security Machine Products Company, Chicago, Ill., a corporation of Delaware
Application August 30, 1946, Serial No. 693,833
2 Claims. (Cl. 10—82)

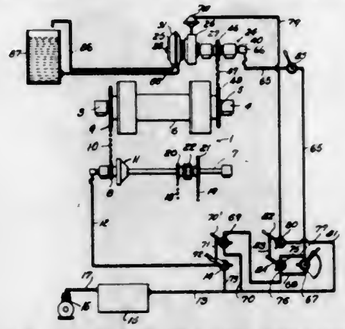
1. In an apparatus of the character described, a support, an indexible member on said support, a series of circularly spaced nut blank receiving means on said member, locking means carried

by said support and engageable with said member for locking the same in its various indexed positions, movable mechanical means operatively connected with and moved by said locking means during locking and unlocking movement of the latter and having a portion located in each indexed position of said member adjacent to one of said receiving means and adapted during unlocking movement of said locking means to be operatively connected with said member to move the same to the next indexed position, a non-rotatable element carried by said support and overlying said member and having its periphery concentrically arranged with respect to said circularly spaced nut blank receiving means on said member and located closely adjacent to said series of receiving means wherefore the periphery of said element will engage the adjacent sides of nut blanks on said receiving means to prevent said blanks from rotating on said receiving means, said element being provided at a predetermined location adjacent to its periphery with means including a peripheral notch and a movable element adjacent to said notch and adapted to engage with the nut blank currently located adjacent said location to impart a partial turn to the blank as said member is indexed, a non-rotatable member carried by said support and mounted above said indexible member and said non-rotatable element and having arms overlying the path of movement of the series of receiving means on said indexible member, said non-rotatable member being movable toward and away from said indexible member, and means carried by said support and connected to said non-rotatable member for moving the same toward said indexible member to bring the arms of the non-rotatable member into close proximity to the receiving means on said indexible member when the latter is locked in indexed position, wherefore said arms will engage certain of the nut blanks on said receiving means.



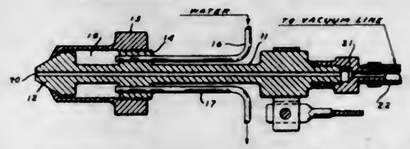
2,590,172
HOISTING APPARATUS
William Guier and Ray E. Carter, Tulsa, Okla., assignors to Unit Rig & Equipment Company, Tulsa, Okla., a partnership composed of Jerry Underwood, Hugh Chancey, William E. Guier, and Ray E. Carter
Application October 8, 1945, Serial No. 620,886
8 Claims. (Cl. 254—187)

4. In combination with the winding drum of a drawworks, a control unit, a driving connection between the winding drum and the control unit, a clutch including a member having positive driving engagement with the driving connection and a complementary member, means mounting the complementary member for rotation coaxially with the other clutch member, a brake having frictional engagement with the complementary clutch member, pressure expandable means between the clutch members, means for supplying a pressure medium to the pressure expandable



means for connecting the clutch members for rotation by the winding drum, an actuator for the brake, means in said pressure medium supply for controlling air pressure in the expandable means, means connecting the control means with the brake actuating means, and a valve in bypassing relation with the control means having a finer adjustment of control than said control means.

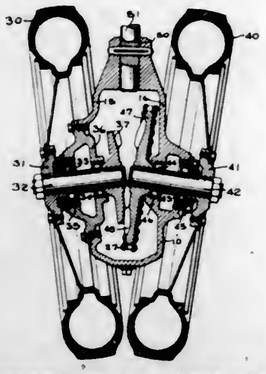
2,590,173
DEIONIZED ELECTRODE IN ELECTRIC GLASSWORKING
Edwin M. Guyer, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application January 9, 1948, Serial No. 1,293
8 Claims. (Cl. 49—82)



1. The method of working a hard glass body which comprises arranging that portion of the body to be heated in a path between two power input electrodes, applying electric power to such electrodes of a character suitable for establishing a discharge for heating to softness that portion of the body arranged therebetween and of a voltage tending to create a discharge around rather than through the body and preventing the discharge from passing around the body by partial withdrawal of ionized atmosphere from between the body and electrodes.

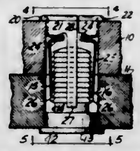
5. The method of effecting a sealing-together of two glass articles at meeting surfaces, which includes applying a readily dissipated conductive stripe on one of the articles along an edge of one of such surfaces, arranging the articles where they meet between two power input electrodes, applying sufficient power to dissipate the conductive coating to heat the glass in the area to be sealed to a more conductive temperature than that of the adjoining regions and thereafter increasing the power input to rapidly melt the glass in the sealing region while removing volatile foreign matter from the power input areas by creating air currents toward the working ends of the electrodes.

2,590,174
DRIVEN DIRIGIBLE DUAL FRONT WHEEL UNIT FOR TRACTORS
James M. Hait, San Jose, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware
Application January 27, 1947, Serial No. 724,688
10 Claims. (Cl. 180—42)



1. Arrangement for simultaneously driving a pair of cambered traction wheels, including a first axle having an inner and an outer end, a sprocket mounted on the inner end of said axle for rotation therewith, said sprocket having radial gear teeth provided on its inner face, a second axle having an inner and an outer end and angularly disposed relatively to said first axle with its inner end adjacent to the inner end of said first axle, a bevel gear mounted on the inner end of said second axle for rotation therewith and in mesh with the radial gear teeth on the inner face of said sprocket, drive means engaging the cogs of said sprocket, and traction wheels firmly mounted on the outer ends of said axles.

2,590,175
FASTENING DEVICE
Julius Hajdu, Cleveland, Ohio
Application August 20, 1949, Serial No. 111,491
1 Claim. (Cl. 24—211)



A separable fastening device for joining objects of appreciable thickness having aligned holes therethrough, comprising in combination, a stud member including a shouldered head adapted to interfit one end of one of the aforesaid aligned holes, the said stud having a grooved shank portion of lesser diameter than the said shoulder and axially aligned therewith, the combined length of the shoulder and shank being less than that of the aligned holes; and a sheet metal clip member comprising a cup shaped head having a cylindrical body portion adapted to interfit the end of the other of the aforesaid aligned holes opposite to that containing the said stud member, and including a peripheral flange at the top thereof for engagement with the outer surface of one of the joined objects, the body portion having a cross-slotted bottom bent upon itself to form two pairs of yieldable trigger elements at a ninety degree angle to each other, each of the said trigger elements having an integral finger dependent therefrom adapted to receive the aforesaid stud shank therebetween, one pair of said dependent fingers being bent away from the longitudinal axis of the said clip to normally press against the wall of the aforesaid aligned holes, the other pair of said fingers being bent toward the said longitudinal axis and having laterally extending inwardly faced teeth at the lower end thereof normally engaged with the said shank groove to hold the said stud and clip in locked engagement, whereby the joined objects are rendered inseparable, the said toothed fingers being bent away from the longitudinal axis when the said yieldable trigger elements are depressed to disengage the said groove and release the aforesaid stud, thereby rendering the joined objects separable.

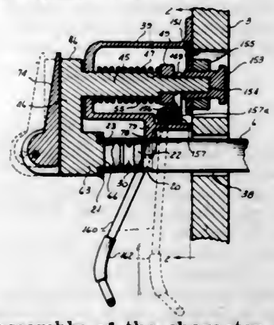
2,590,176
TERTIARY ALCOHOLS
Edwin George Edward Hawkins, Lower Kingswood, Tadworth, and Francis Edward Salt, Banstead, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application November 8, 1949, Serial No. 126,256. In Great Britain November 16, 1948
16 Claims. (Cl. 260—617)

1. Process for the production of tertiary alcohols which comprises reacting in liquid phase at elevated temperatures a hydroperoxide compound in which the hydroperoxide group is linked to a tertiary carbon atom, with an amine compound of the general formula

$$R-\underset{\displaystyle R_1}{\overset{\displaystyle R}{\underset{|}{\overset{|}{N}}}}-R_1$$

wherein R is a substituent selected from the group consisting of the alkyl, cyclo-alkyl, substituted alkyl, aryl, aralkyl radicals and the methylene groups adjacent to the nitrogen atom of cyclic nitrogen compounds, R_1 is a substituent selected from the group consisting of hydrogen, the alkyl, cyclo-alkyl, substituted alkyl, aryl, aralkyl radicals and the methylene groups adjacent to the nitrogen atom of cyclic nitrogen compounds, and R_2 is a substituent selected from the group consisting of hydrogen, an alkyl, cyclo alkyl, substituted alkyl, aryl, aralkyl or acyl group.

2,590,177
GLASS CONTROLLED DISPENSING VALVE
John A. Hopwood, Westfield, N. J., assignor to Monitor Process Corporation, Jersey City, N. J., a corporation of New Jersey
Application December 6, 1949, Serial No. 131,477
5 Claims. (Cl. 226—128)



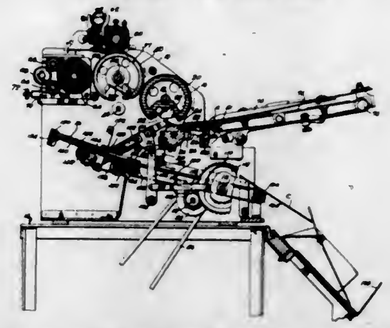
1. In an assembly of the character described: a liquid discharge tube provided in its outer end with a slide valve movable longitudinally of the tube to cover and uncover a discharge port in the wall of the tube, a housing mounted in fixed position with respect to the tube, a plunger mounted for longitudinal movement in a direction parallel to the axis of the tube, a valve carrying arm supported on said plunger and secured to the valve, a spring embracing the plunger and normally moving the plunger into a position wherein the valve will seal the port of the tube, a lever pivoted within said housing and engaging with an abutment on the plunger, and a pressure arm rigid with said lever and extending to a point beneath the tube and into the path of a drinking glass when the latter is moved into a position beneath the discharge port of the tube, whereby pressure exerted by the glass against the pressure arm will tilt the lever and move the plunger against the tension of said spring into a position to slide the valve and uncover the discharge port of the tube.

2,590,178
COMBINATION CONVERTIBLE GOLF CLUB AND EQUIPMENT CASE AND CART
Lloyd D. Jamison, Phoenix, Ariz.
Application November 29, 1950, Serial No. 198,212
3 Claims. (Cl. 280—37)



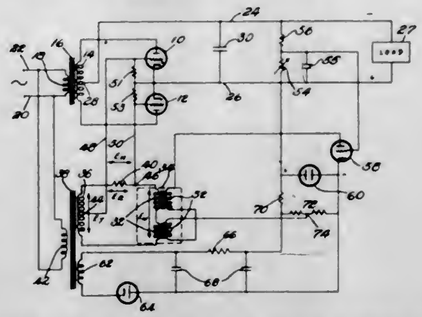
1. A combination golf club case and cart, comprising in combination, a rigid rectangular case, laterally disposed longitudinally extending compartments therein adapted to contain golf culbs, a centrally disposed compartment adapted to receive folded wheel supports, spaced openings oppositely positioned in the lower portion of the sides of said case to receive and removably retain the upper ends of the struts of wheel supports, an opening in the upper end portion of the bottom of said case provided with a cart handle receiving thimble; a pair of wheel supporting struts each including a block with a projecting wheel spindle, a wheel thereon, and struts extending therefrom having their upper ends curved to extend at right angles to their lower portions and pivotally mounted in said block so as to pivot from a folded position with their upper ends directed toward each other, to an extended position with their upper ends directed from and extending parallel to said wheel spindle, removably attached to said case by insertion of the upper ends of said struts, when in extended position into the spaced openings in the sides of said case with the ends of said upper portions of each oppositely positioned strut mutually engaging to maintain rigidity, and a cart handle having an upturned outer end removably retained in said thimble in the bottom of said case.

2,590,179
SHEET DELIVERY DEVICE FOR ROTARY PRINTING MACHINES
Clyde W. Johnson, Islington, Mass., assignor, by mesne assignments, to A. B. Dick Company, Niles, Ill., a corporation of Illinois
Application June 17, 1947, Serial No. 755,065
16 Claims. (Cl. 101—232)



1. In a printing machine having a blanket cylinder and a cooperating pressure roller, transfer means for engaging each successive sheet of paper at the rear of the bite of the cylinder and roller and for guiding it rearward, rearward movable carrier belts for receiving each successive sheet of paper from the transfer means, forward movable carrier belts for receiving each successive sheet from the rearward moving belts and for moving it outward beneath the pressure roller, and a support beneath the path of rearward movement of the successive sheets under the guidance of the transfer means, the said support being near the front of the rearward moving belts and near the rear of the forward moving belts and the said support being reciprocable upward and downward in synchronism with the rearward moment of the successive sheets and being in its upper position to momentarily support each sheet during rearward movement after it has been disengaged by the transfer means.

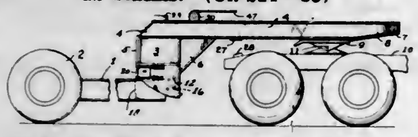
2,590,180
VOLTAGE REGULATION SYSTEM
Carl Juhola, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application January 10, 1947, Serial No. 721,300
1 Claim. (Cl. 321—40)



Apparatus for regulating a direct voltage converted from an alternating voltage by means of a grid-controlled rectifier tube, comprising, in combination with a grid-controlled rectifier tube, a direct current output circuit supplied by said

tube, alternating current supply means for said tube, a control circuit connected to said tube to control the rectifying action thereof for regulating the magnitude of the output voltage, said control circuit including a transformer secondary winding, a resistor and variable inductance means, all three in mutual series connection, means for varying said inductance means in accordance with variations in said output voltage, said latter means comprising a saturating winding, a magnetic core magnetically linked with said inductance means and said saturating winding, and means for producing direct current in said saturating winding to saturate said core to a controlled degree determined in accordance with the magnitude of said output voltage thereby to regulate the latter automatically comprising an amplifier circuit including the following, in combination: an amplifier tube, a grid-cathode circuit for said tube and comprising a constant-voltage gaseous discharge tube, a source of direct current independent of said output circuit for producing a constant-voltage discharge in said gaseous discharge tube for supplying a fixed bias to said amplifier tube; a resistance network across said direct current output circuit, said network including a fixed resistor and a variable resistor connected in series therewith, the voltage across said variable resistor being applied to the control grid of said amplifier tube in opposition to said fixed bias to provide a variable bias determined by the magnitude of the output voltage; an anode-cathode circuit for said amplifier tube, said latter circuit including said saturating winding and a source of electric energy independent of said output circuit, the arrangement being such that the current in said saturating winding and thus the magnitude of the voltage of said output circuit may be varied by means of said variable resistor thereafter to be regulated automatically.

2,590,181
POWER MANIPULATED DETACHABLE GOOSENECK FOR TRAILERS
Clyde C. Keesler, Prospect Park, Pa., assignor to Rogers Brothers Corporation, Albion, Pa., a corporation of Pennsylvania
Application December 23, 1949, Serial No. 134,818
12 Claims. (Cl. 214—85)



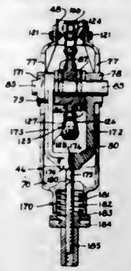
1. The combination with a tractor, a power operated winch thereon, a trailer including a body, a gooseneck on the forward portion of the body and having an upwardly extending portion and a forwardly extending portion overhanging the rear of the tractor and coupled thereto by a fifth wheel which is rockable about an axis extending transversely of the tractor, of complementary coupling means on the gooseneck and forward portion of the body detachably coupling the gooseneck and body together with the rear portion of the gooseneck and forward portion of the body in a predetermined elevated position, ground engaging extensible compression elevating means carried by, and movable upwardly and downwardly relative to, the gooseneck and operable to be moved into engagement with the ground and elevate the rear portion of the gooseneck, and thereby the forward portion of the body, when the body is connected to the gooseneck, to said elevated position, a cable connected to said winch for reeling up thereby, power multiplying and applying means operatively interposed between and connecting the cable and elevating means and operated by reeling up of the cable to operate the elevating means for elevating and lowering the rear portion of the gooseneck and forward portion of the trailer to and from, respectively, said predetermined position, and means to lock said gooseneck and trailer in coupled relation in said predetermined elevated position.

2,590,182
V BELT POWER TRANSMISSION SYSTEM
David L. Kessler and William S. Worley, Denver, Colo., assignors to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application July 27, 1950, Serial No. 176,156
6 Claims. (Cl. 74—221)



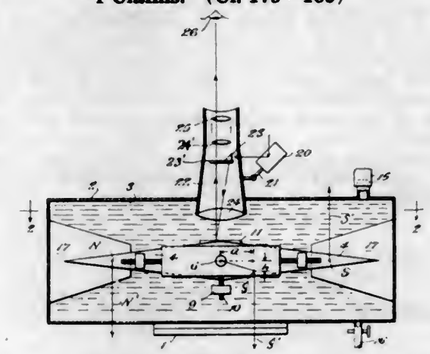
1. A power transmission system comprising; a drive V-sheave, a driven V-sheave, a V-belt connecting the sheaves in a manner such that the drive sheave transmits its power to the driven sheave, an idler pulley disposed between the sheaves having a circular belt contacting surface engaging the outer wide side of the belt, the idler pulley having resilient means adjacent its belt contacting surface extending peripherally thereabout of appropriate modulus of elasticity and shape to cause the belt to track onto the idler pulley in a plane perpendicular to its axis of rotation, the resilient means being constructed and operable to eliminate any substantial lateral vibration of the belt between the idler pulley and the driven sheave.

2,590,183
TENSIONING DEVICE
Thomas B. Keesling, Campbell, Calif., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Original application February 25, 1946, Serial No. 650,017. Divided and this application October 18, 1948, Serial No. 55,053
9 Claims. (Cl. 198—208)



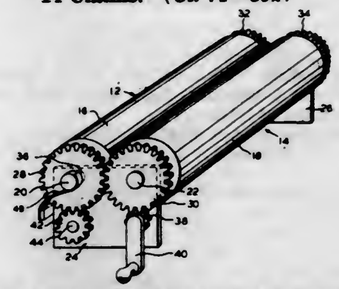
1. In an endless chain conveyor arranged to travel over a driven and a floating sprocket, a stationary support, means mounting said floating sprocket on said support for movement toward and from said chain, said mounting means having a threaded shank extending for axial sliding movement through said support in the direction of movement of said mounting means toward said chain, a spring encompassing the free end of said shank and engaging said support, an adjusting nut on said shank beyond said spring for compressing said spring whereby the latter exerts a predetermined spring load to said floating sprocket to maintain the latter in tensioning engagement with said chain, and means spaced from said adjusting nut and engageable by the same in the event of spring breakage for limiting movement of said floating sprocket away from said chain to thereby prevent excessive drooping of said chain.

2,590,184
MAGNETOMETER
Theodore Koulomzine, Val d'Or, Quebec, Canada
Application April 29, 1947, Serial No. 744,618
4 Claims. (Cl. 175—183)



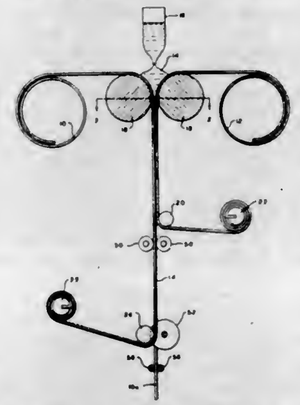
1. An improved magnetometer which comprises a vessel for confining a liquid, a balance system immersed in the liquid, means mechanically connecting the vessel and the balance system for maintaining the balance system at a predetermined position when in a normal magnetic field, said balance system being mounted to oscillate about a horizontal axis and comprising a permanent magnet and an attached float, the center of gravity of the balance system being displaced both horizontally and vertically from the axis, and means for making determinations in the movement of the balance system.

2,590,185
PRESSURE ROLLER APPARATUS
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application December 1, 1945, Serial No. 632,193
14 Claims. (Cl. 74—392)



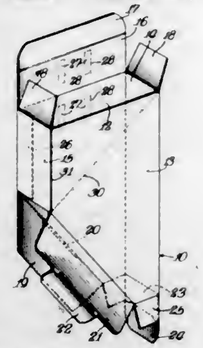
1. A pressure roller apparatus for automatically and predeterminedly varying compression between pressure rollers according to the rate of rotation thereof and for substantially eliminating said compression when torque is removed therefrom, said apparatus comprising, in combination, a pair of pressure rollers suitably surfaced for compressing and advancing sheet materials disposed therebetween, means for simultaneously rotating said pressure rollers, means for mounting one of said pressure rollers so that it may be moved bodily toward and away from the other of said rollers, and means responsive to the rotation of said bodily movable pressure roller in a direction for advancing said sheet materials for urging said roller toward the other of said rollers, said last-named means comprising a cylinder, a rotatable shaft coaxial with said cylinder and a viscous liquid contained between said shaft and cylinder and in frictional contact therewith, said fluid acting to transmit a torque between said shaft and cylinder.

2,590,186
METHOD OF FORMING FILMS
Edwin H. Land, Cambridge, Mass., assignor to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application April 24, 1948, Serial No. 23,081
5 Claims. (Cl. 18—57)



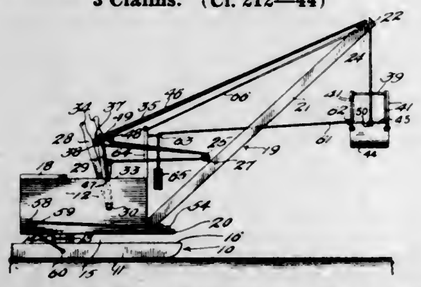
1. The method of forming a continuous solid film which comprises guiding a sheet material into substantially parallel relation with another sheet, said sheets travelling along converging paths to provide a converging space between facing surfaces of said sheets, at least one of said sheets being absorbent to portions of a viscous liquid mass containing a film-forming material capable of forming said solid film, feeding a bulk of said liquid into said space between converging inner surfaces of said sheets, said bulk of liquid being of greater thickness than the desired thickness of spread liquid, supporting outer surfaces of said sheets during convergence to confine said bulk of liquid, maintaining inner surfaces of said sheets predeterminedly spaced at the point of convergence thereof by liquid pressure created in said bulk of liquid at the point of convergence by passage of said inner surfaces past and in contact with said bulk to thereby create a substantially uniform layer of said film-forming liquid between said sheets, maintaining said two sheets in substantially parallel relation with said layer of film-forming material therebetween at least until such time as said absorbent sheet has removed from said layer a sufficient quantity of said portion of said liquid absorbable by said sheet so that said layer includes a substantially continuous solid phase of said film-forming material, removing one of said sheets, and drying said formed film.

2,590,187
COMBINATION TOY GUN HOLSTER AND PACKAGE
Alfred F. Langos, Chicago, Ill., assignor to Langson Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application December 21, 1949, Serial No. 134,290
9 Claims. (Cl. 224—2)



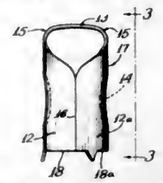
1. A combined carton and holster for a toy gun comprising a pair of parallel side walls generally conforming in shape to the outline of the gun, wall elements connecting said side walls along defining edges thereof including a top flap hingedly connected to the top edge of one said side walls, a plurality of apertures in said one wall, a plurality of apertures in said top flap registrable with said wall apertures upon swinging of said top flap into overlying relation with said one wall, and a removable portion in the other side wall defined at least partially by the top edge thereof and a line of weakness in said other wall.

2,590,188
TOY SWINGING CRANE
Ira Landree, Ontonagon, Mich.
Application May 7, 1946, Serial No. 667,795
3 Claims. (Cl. 212—44)



1. A toy swinging crane including a body, a boom supported by the body, a pick-up device suspended on the boom and including hinged sections, operating levers on the body operatively connected to the pick-up device for raising and lowering the pick-up device and for opening and closing the same, the operative connections between the levers and the pick-up device including cables having ends connected to the levers and movably connected to the boom and upper portions of the levers, said cables further being movably mounted over the free end of the boom and movably connected to the hinged sections of the pick-up device, links connecting said hinged sections, said cables being fixedly connected to the upper ends of the links, and a seat on the body adapted to support the operator in position to straddle the body and operate said levers.

2,590,189
PUNCHING DEVICE
Raymond Stanley Leszczynski, Chicago, Ill., assignor to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application September 10, 1949, Serial No. 114,961
6 Claims. (Cl. 30—6.1)



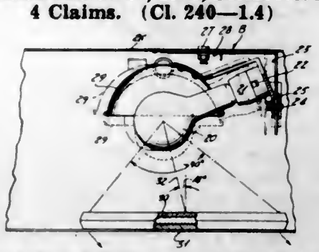
1. A punching device for perforating cans of the type whose tops have a series of partially perforated knock-out plugs therein, comprising a tubular body having a bottom edge, a plurality of prongs extending from said bottom edge, the bases of adjacent prongs being spaced circumferentially from each other, and said bottom edge adapted to engage the top of the can when said prongs have punched through said knock-out plugs.

2,590,190
VENTILATED CAP
Harry Lev, Chicago, Ill.
Application April 15, 1950, Serial No. 156,167
2 Claims. (Cl. 2—176)



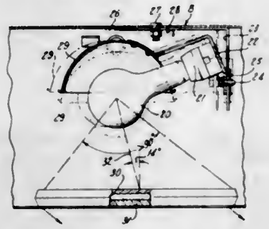
1. In a ventilated cap, the combination with an endless frame, of a self-sustaining reticulated crown extending endlessly above the frame with only its lower edge portion lapping the top edge portion of the frame interiorly thereof, a flexible top for the cap extended across the crown contiguous to the upper edge thereof and provided with a narrow depending marginal portion lapping the top edge portion of the crown exteriorly thereof, a facing ribbon extended exteriorly around the frame and inwardly over the top edge thereof and in juxtaposition with the lower edge portion of the crown, and means interconnecting the ribbon, crown and frame at the region where the ribbon laps the lower edge portion of the crown.

2,590,191
SURGICAL LIGHTING
Henry L. Logan, New Rochelle, N. Y., assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application March 27, 1948, Serial No. 17,401
4 Claims. (Cl. 240—1.4)



1. Means for lighting an extensive surgical work area above an operating table and of substantial depth to secure high levels of illumination in horizontal planes and in vertical planes in selected azimuths, comprising a plurality of luminaires mounted at a higher elevation than the work area and remote from a vertical axis through the center of the work area, each luminaire including a lighting unit having an incandescent lamp, an inverted hemispherical reflector, a horizontal lens system accepting the direct and reflected rays throughout a solid angle of substantially 90° and concentrating them into a beam of parallel rays of substantial cross sectional area and oblique to the vertical, each lens system being oriented to direct the beam in the direction of the vertical plane through the center of the work area and the corresponding lamp, and means for mounting each lamp and reflector for independent vertical and horizontal movement in said vertical azimuthal plane to maintain its orientation and obtain variation in the obliquity of the beam so that the output of all of the units may be caused to cross in said work area.

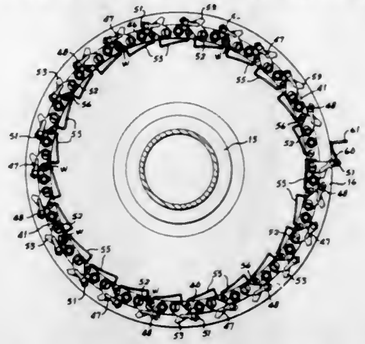
2,590,192
DIRECT LIGHTING LUMINAIRE
Henry L. Logan, Bronxville, N. Y., assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Original application March 27, 1948, Serial No. 17,401. Divided and this application May 7, 1951, Serial No. 225,020
1 Claim. (Cl. 240—1.4)



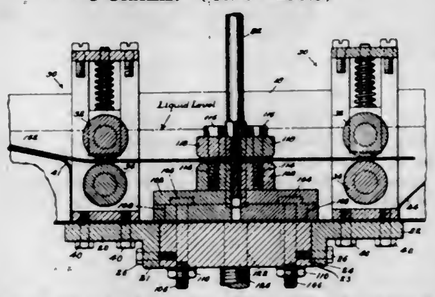
A direct lighting luminaire for surgical lighting comprising a downwardly opening elongated lamp box, a plurality of lenses closing the bottom of the box, each lens having a prismatic formation which collects light from a focal point above the center of the lens and transforms it into an oblique beam of parallel rays, all the beams being in the direction of the median vertical plane through the lens centers and focal points, a plurality of incandescent lamps, one for each lens, and mounting means for the lamps whereby each may be shifted both vertically and horizontally in said plane relative to the respective focal point whereby the obliquities of the beams may be adjusted while they are kept in said vertical median plane.

2,590,193
WRAP STRIPE STOP MOTION
Donald G. Longtin, High Point, N. C., assignor to Guilford Hosiery Mills, Incorporated, High Point, N. C., a corporation of North Carolina
Application February 12, 1951, Serial No. 210,454
5 Claims. (Cl. 66—164)

1. In a knitting machine having a revolving wrap stripe mechanism disposed thereabove and which includes a rotatable table supported by the revolving wrap stripe mechanism and having a plurality of circularly spaced bobbin pins projecting upwardly therefrom on which tubes of wrap yarn are adapted to be mounted, said knitting machine also having movable means disposed adjacent the rotatable table for stopping the machine, improved means for effecting movement of said movable means for stopping the machine comprising a pivoted knock-off lever mounted for movement about a vertical axis adjacent each of the bobbin pins, spring means normally urging the knock-off lever to a position extending radially of the rotatable table and clamping means on the knock-off lever to which a tail of yarn from the tube mounted on the adjacent bobbin pin may be clampingly secured whereby the free end of said knock-off lever may be moved inwardly of the outer edge of the rotatable table, manually, as the tail of yarn is clampingly connected thereto and, upon exhaustion of the yarn on said tube, the tail of yarn will be withdrawn from said clamping means to thus release the knock-off lever and to permit the same to move outwardly to subsequently engage the movable means for stopping the knitting machine.

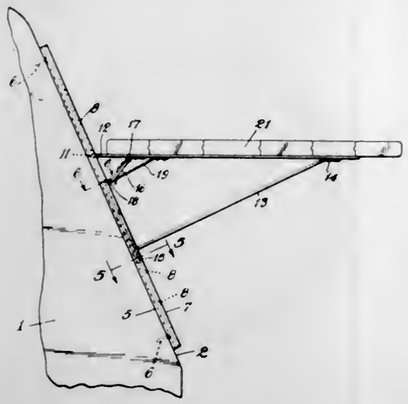


2,590,194
METHOD OF AND MACHINE FOR TREATING HIDES AND SKINS WITH LIQUID
Mieth Maeser, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 19, 1950, Serial No. 180,357
3 Claims. (Cl. 8—150.5)



3. A method of treating hides which comprises feeding a spread-out work piece along a predetermined path leading through and transverse to a narrow work treatment zone in a bath of liquid and simultaneously with the feeding individually distorting each of successive narrow cross-sectional portions of said work piece as it is fed through said zone by subjecting said portions to reciprocatory movement in directions normal to the said predetermined path with a high frequency and amplitude adequate to increase penetration of the liquid into the work piece while restraining against reciprocatory movement portions of said work piece adjoining said narrow cross-sectional portions.

2,590,195
ADJUSTABLE SHELF
Arthur G. Merkle and Hoxie Eldridge, Marshall, Mich., assignors to Sherer-Gillett Company, Marshall, Mich., a corporation of Illinois
Application November 21, 1947, Serial No. 787,464
4 Claims. (Cl. 248—245)



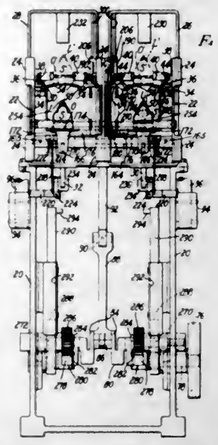
3. A flat base plate having inwardly turned transversely slotted channel forming edges, a slide plate mounted for adjustable movement along the base plate with its opposed edges masked by the channel forming edges of the base plate, a shelf supporting member of such width that it clears the channel forming edges extending laterally from the upper portion of the slide plate, an inclined strut of such width that it clears the channel forming edges joining the lower portion of the slide plate and the outer portion of the shelf supporting member and a latch pivoted on the underside of the shelf supporting member adapted to overlie the channel forming edges, the latch plate having a portion adapted to penetrate each of an opposed pair of slots in opposite channel forming edges and yielding means for biasing the latch into engagement with the channel forming edges.

2,590,196
RETAINING DEVICE
Lester H. Messinger, Bridgeport, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 25, 1947, Serial No. 743,741
2 Claims. (Cl. 138—54)



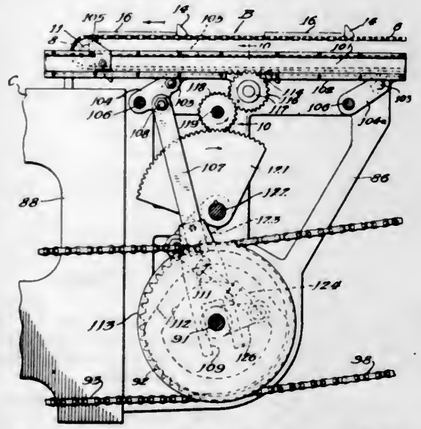
1. An internal support for flexible gas-conducting tubing consisting of an extended wire helix, and means within the periphery of the helix for holding said helix in collapsed or compressed condition, comprising mutually engageable means integral with the ends forming hooks made from the ends of said wire helix and reposing wholly within the helix.

2,590,197
MACHINE FOR APPLYING PRESSURE TO SHOE BOTTOMS
Lloyd G. Miller, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application September 1, 1949, Serial No. 113,628
52 Claims. (Cl. 12—36)



1. A machine for operating upon shoes having, in combination, means for performing a pressing operation upon a shoe, and means controlled by the removal of a processed shoe from the machine for causing the pressing means to perform the pressing operation upon the first-named shoe.

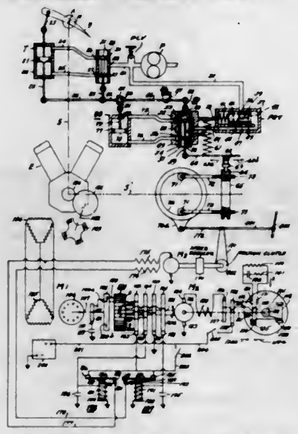
2,590,198
FEED AND TRANSFER MECHANISM FOR BOOK-TRIMMING MACHINES
Charles L. Moyer, deceased, late of Chicago, Ill., by Clifford S. Bassett, executor, Chicago, Ill., assignor to C. L. Moyer Company, Chicago, Ill., a corporation of Illinois
Original application December 22, 1947, Serial No. 793,076. Divided and this application May 5, 1949, Serial No. 91,622
3 Claims. (Cl. 198—24)



1. In a book feed mechanism, an endless conveyor having an upper flight disposed to carry books, a carrier frame disposed below and parallel to said upper flight, rocker links to support said carrier frame for movement toward and away from said upper flight, a lug carrier guided

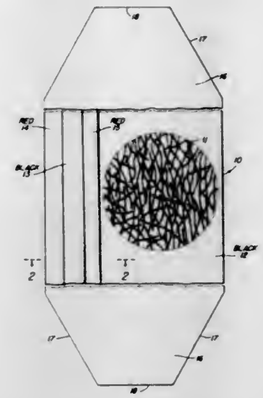
for reciprocative movement along said carrier frame, a lug secured on said carrier to engage a book on said upper flight when said carrier frame is moved toward said upper flight, rack teeth provided on said lug carrier, a planetary gear journaled on said carrier frame to engage said rack teeth, a sun gear to drive said planetary gear, a fan gear to drive said sun gear, means to actuate said fan gear to impart reciprocative movement to said lug carrier, and means to move said carrier frame toward and away from said upper flight.

2,590,199
PROPELLER PITCH CONTROL APPARATUS
Clifford L. Muzzey, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 8, 1946, Serial No. 675,359
5 Claims. (Cl. 170—160.17)



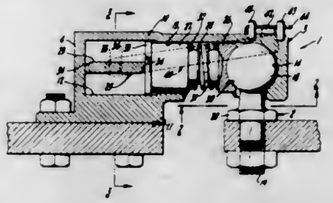
5. In an engine-propeller combination, apparatus for controlling propeller blade angle to effect propeller rotation at a selected speed, the combination comprising, a hub driven by the engine and rotatably supporting pitch shiftable blades, blade angle control means for adjusting the blades and including a double acting fluid pressure blade actuating servo-motor and a source of fluid pressure, a distributor valve for selectively energizing the blade actuating servo, a control valve having a movable plunger and movable porting sleeve for the control of the distributor valve, manual means operating on the control valve for initially setting the control valve to control at a selected speed, master speed means for modifying the setting of the control means in accordance with any speed error between the speed of propeller operation and the speed of the master speed means, said control valve being connected with the speed setting means through a lever and a spring acting upon the plunger and a carriage movable by the speed setting means, whereby an equilibrium position of the plunger and porting sleeve is attained on balance of centrifugal force and spring force, said plunger responding for any speed error correction in proportion to the integrated speed error and in proportion to the amount of speed error, an auxiliary servo-motor transmitting to the distributor valve the control applied by the control valve, and operable in conjunction with the blade actuating servo to shift the porting sleeve to a new equilibrium relation with the movable plunger, whereby the rate of blade angle change is in proportion to the speed error and in proportion to the rate of change of speed error.

2,590,200
INK TRANSFER RIBBON
George G. Neidich, Rochester, N. Y., assignor to The Todd Company, Inc., Rochester, N. Y., a corporation of New York
Application November 19, 1949, Serial No. 128,409
7 Claims. (Cl. 197—172)



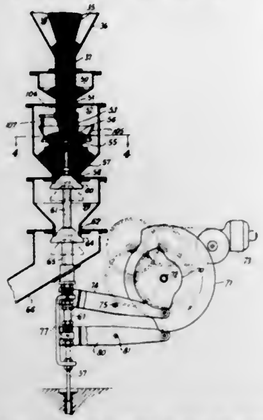
1. An ink transfer ribbon comprising a thin, flexible, tough paper ribbon made of relatively straight, cylindrical fibers having the size and shape characteristic of bast fibers, laid mainly longitudinally of said ribbon to afford greater strength longitudinally than transversely thereof and to produce a multiplicity of substantially continuous, longitudinally extending capillaries providing free recovery flow of ink material longitudinally of said ribbon, said paper ribbon being impregnated with an ink transfer material.

2,590,201
TRACTOR HITCH
Adolph Nielsen, Oakland, Calif.
Application June 22, 1948, Serial No. 34,362
11 Claims. (Cl. 280—33.17)



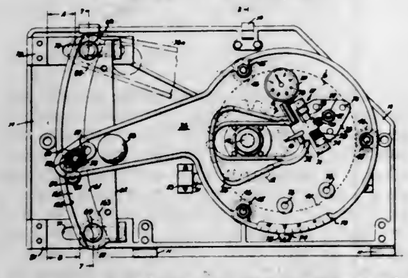
8. A coupling device comprising, a body having a chamber and an opening to enable a headed member to be passed into the chamber, means for clamping a headed member in the chamber comprising a head-engaging member adapted to engage a headed member, a cam in the chamber having laterally extending pivots received in slots in the body enabling both pivotal and bodily movement of the cam, and having two spaced oppositely disposed camming faces engaging the head-engaging member and the interior of the body respectively when pivoted to camming position, and means for pivoting the cam to camming position.

2,590,202
MATERIAL DISCHARGE MECHANISM
Charles L. Norton, Jr., New York, N. Y., assignor to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Original application July 4, 1944, Serial No. 543,441. Divided and this application October 29, 1945, Serial No. 625,239
9 Claims. (Cl. 214—17)



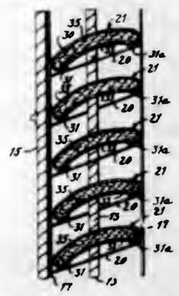
7. A material discharge mechanism for a receptacle containing a fluent mass of solid material comprising means forming a solid material outlet from said receptacle, a movable valve member coaxially arranged with respect to and having a peripheral configuration similar to said outlet, the upper surface of said valve being spaced below said outlet in the path of said material discharging therefrom and in a position in which the angle between the periphery of said outlet and the periphery of said valve member is less than the normal angle of repose of said material on the upper surface of said valve member, whereby the flow of solid material from said outlet is dammed, a shroud ring flexibly supported in radially spaced encircling relationship to said solid material outlet and contacting the periphery of said valve member when the member is in a material flow damming position, and means for moving said valve member out of peripheral contact with said shroud ring to cause the discharge of solid material over the periphery thereof.

2,590,203
GEAR TESTING AND FINISHING MACHINE
William H. Petit, Pasadena, Calif.
Application September 15, 1950, Serial No. 185,040
6 Claims. (Cl. 51—58)



6. A device for finishing the contours of gear teeth comprising a gear tooth finishing tool, means for supporting a gear in cooperative relation to said tool, a tool supporting device, means on said tool supporting device for oscillating said tool about an axis extending perpendicular to a plane tangent to a gear tooth engaged by said tool, and means for moving said tool supporting device to cause said tool to follow the profile of said gear tooth.

2,590,204
ACOUSTICAL VENETIAN BLIND
Hardy K. Phillips, Morganton, N. C.
Application June 30, 1950, Serial No. 171,415
2 Claims. (Cl. 160—236)



1. A slat for a Venetian blind comprising a metallic outer shell member which is concavo-convex in cross section and having the side edges thereof bent inwardly toward each other to overlap the concave surface of the shell member, a layer of fibrous sound absorbent material disposed against the concave side of the shell member and a perforated strip disposed against the concave side of the fibrous material and confined in position by the inturned edges of the shell member.

2,590,205
METHOD OF STORING AND RECOVERING PEAT
Frederick E. Pierce, Hanover, N. H.
Application November 4, 1947, Serial No. 783,966
3 Claims. (Cl. 214—152)



3. The method of preparing a substantially waterproof covering which comprises forming said covering of comminuted peat and intermittently sprinkling said covering with water containing 1% to 2% of a water-miscible oil and allowing the covering to dry between said intermittent sprinkling until a protective crust has been formed.

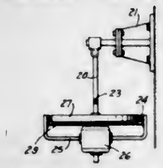
2,590,206
VESSEL FILLING VALVE
Ranold F. Quam, Milwaukee, Wis.
Application August 2, 1948, Serial No. 41,995
12 Claims. (Cl. 226—93)

1. A vessel filling valve comprising a liquid inlet conduit, a first sleeve member telescopically slidable on said conduit, said sleeve having an end portion insertable into a vessel to be filled, a second sleeve telescopically slidable on said first mentioned sleeve, said second sleeve having a vessel-mouth-sealing portion and also having a vent, there being an annular space between said sleeves adjacent said mouth-sealing-means, said annular space communicating with said vent and with the vessel engaging side of said mouth-sealing-means when the sleeves are in one position of telescopic movement, means responsive to tele-



scopic movement of said first sleeve in one direction on said inlet conduit for selectively preventing the flow of fluid through said first sleeve, and means on said first sleeve for selectively sealing off the annular space between said first and second sleeves.

2,590,207
AUTOMATIC ROLL CONTROL FOR SHIPS OR THE LIKE
Samuel R. Ramsay and Adelaide H. Ramsay, Santa Cruz, Calif.
Application August 27, 1945, Serial No. 612,742
2 Claims. (Cl. 74—5.8)



1. In a gyroscopic roll control for a ship or the like, a yoke comprising a suspension rod, a pair of horizontal cross-rods extending in opposite directions from the lower end of the rod and a pair of legs projecting downwardly from the ends of the cross-rods, a knuckle joint for suspending the rod at its upper end with freedom of universal swinging motion, a ring pivotally supported in the legs of the yoke, a second inverted yoke comprising a vertically disposed motor, a pair of cross-arms projecting horizontally from the central portion thereof and a pair of arms projecting upwardly from the ends of the cross-arms, the arms being substantially co-extensive in lentgh with the legs of the yoke, means for suspending the arms from the ring on an axis at a right angle to the ring pivots, the upper portion of the motor extending to within close proximity of the plane of the ring and the motor shaft having a spinning wheel within the plane of the ring, and the spinning wheel being arranged due to the equal lengths of the legs and arms of the two yokes, substantially midway between the cross-rods and cross-arms of the two yokes.

2,590,208
PROCESS FOR PREPARING CYCLOHEXENE
Hans F. Rickert, Leverkusen-Bayerwerk, Eberhard Stein, Leverkusen, and Otto Bayer, Leverkusen-Bayerwerk, Germany, assignors to Farbenfabriken Bayer, Leverkusen, Germany
No Drawing. Application September 27, 1950, Serial No. 187,151. In Germany September 21, 1949
3 Claims. (Cl. 260—666)

1. In a process for preparing cyclohexene the step which comprises heating a halogenocyclohexane in contact with a compound of the group consisting of phthalic acid anhydride and halogen substitution products of phthalic acid anhydride to a temperature sufficient to split off hydrogen halide from the halogenocyclohexane.

2,590,209
FRACTIONATION OF AMINO ACID MIXTURES
Elliott J. Roberts, Westport, Conn., assignor to The Dorr Company, Stamford, Conn., a corporation of Delaware
Substitute for abandoned application Serial No. 732,161, May 4, 1947. This application April 5, 1950, Serial No. 154,053
3 Claims. (Cl. 260—529)

1. The process for the separation of an aqueous solution mixture of amino acids such as a protein hydrolysate into groups of acidic-, neutral-, and basic-amino acids respectively by treatment with ion exchange material, characterized in that the mixture is passed through a bed of acid-regenerated cation exchange material for absorbing thereon the amino acids indiscriminately while impurity anions pass in the effluent from the bed, selectively unloading the acidic and neutral amino acids by displacing them from their combination with the exchange material by passing through the bed an unloading solution comprising ammonium hydroxide as a base to effect converting the acidic and neutral amino acids but substantially not the more strongly held basic amino acids into noncationic form in which they are eluted from the exchange material whereby the material is left containing basic-amino acids along with NH_4^+-cations while the acidics and neutral amino acids are obtained in the effluent as displaced free amino acids, meanwhile collecting the resulting effluent solution in a first fraction up to a point defined substantially by a point of abrupt increase in the pH-change of the effluent solution, said fraction containing acidic and neutral amino acids substantially pure, namely uncontaminated by NH_4^+-cations, and in a second fraction containing substantially the remainder of the acidic and neutral amino acids although contaminated by NH_4^+-cations from the unloading solution and also mixed with a minor quantity of the basic-amino acids displaced by the unloading solution while a major quantity thereof remains on the bed, then passing through the bed a stripping solution comprising as stripping reagent a salt of a group consisting of ammonium carbonate and bicarbonate providing a high concentration of ammonium cations as distinct from the base ammonia which is not highly ionized in solution for effecting ionic exchange as between the ammonium cations and the cationic basic-amino acids on the bed whereby there result in the effluent the basic-amino acids as salts together with volatile molecules of excess stripping reagent, such stripping reagent being separable from the basic-amino acid salts by volatilization, and employing said second fraction in addition to said unload-

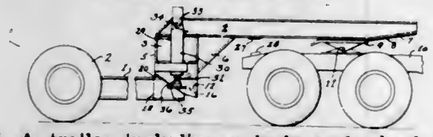
ing solution in a subsequent unloading operation whereby acidic and neutral amino acids in said fraction are recovered while NH_4^+ as well as the basic amino acids therein act as unloading agents.

2,590,210

DETACHABLE FLUID PRESSURE OPERATED GOOSENECK FOR TRAILERS

Hugh L. Rogers, Albion, Pa., assignor to Rogers Brothers Corporation, Albion, Pa., a corporation of Pennsylvania

Application November 26, 1949, Serial No. 129,614
25 Claims. (Cl. 214—85)



1. A trailer including a body and wheel assemblages supporting the rear end of the body, a gooseneck detachably connected at its lower portion to the forward end of the body, power operable extensible compression means carried by and depending from the gooseneck and operable to engage a supporting surface therebeneath at its lower end and selectively elevate and lower the gooseneck and thereby the forward end of the body when the body is coupled thereto and supported thereby, weight supporting complementary coupling means on the lower rear portion of the gooseneck and forward end of the body, respectively, and engageable with each other in coupling relation by predetermined movement of the gooseneck in a predominantly upright path toward said forward end of the body while the coupling means are approximately aligned along said path and the body and gooseneck remain in substantially fixed position relative to each other longitudinally of the body, and locking means for locking the coupling means in coupling relation and for unlocking the coupling means for detachment from each other selectively.

2,590,211

FLAMEPROOF THERMOPLASTIC MOLDING COMPOSITIONS

George F. Rugar, Willoughby, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application September 18, 1947, Serial No. 774,896
7 Claims. (Cl. 106—15)

1. A composition of matter consisting of a moldable thermoplastic composition of substantial flameproof properties, said composition being an intimate mixture of at least 50% of a thermoplastic material and at least 15% of a flameproofing mixture, said thermoplastic material and said flameproofing mixture being substantially 100% of said composition, said flameproofing mixture consisting of a highly chlorinated organic aliphatic compound having more than 8 carbon atoms and between 50% and 80% of chemically combined chlorine, an inorganic flame retardant compound selected from the group consisting of bismuth oxide, arsenic oxide, antimony oxide, bismuth sulfide, arsenic sulfide, and antimony sulfide, and a stabilizer for said highly chlorinated organic composition, said stabilizer having inappreciable vapor pressure at temperatures of the order of 300–450° F., having a stabilizing influence at such temperatures, and having inappreciable stabilizing influence at flame temperatures.

2,590,212

HEATING PAD

Abe O. Samuels, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut

Application April 2, 1947, Serial No. 738,839
3 Claims. (Cl. 128—254)



1. The combination of an elongate heating pad of generally rectangular configuration, having lead wires extending from one end thereof; a rectangular fomentation pad; and a rectangular slip cover having separate pockets respectively carrying said heating pad and fomentation pad in superposed relationship, said pads being substantially co-extensive with each other, one of said pockets having a mouth extending along a longitudinal edge of the slip cover and the other pocket having a mouth located at one end of the slip cover, and said lead wires projecting from an end of the slip cover; and means secured to the ends of the slip cover for securing the same to the body of a user.

2,590,213

PROCESS OF PREPARING CONCENTRATED VAT ACIDS

George N. Sandor, Mexico City, Mexico

No Drawing. Application July 23, 1949, Serial No. 106,510
1 Claim. (Cl. 260—262)

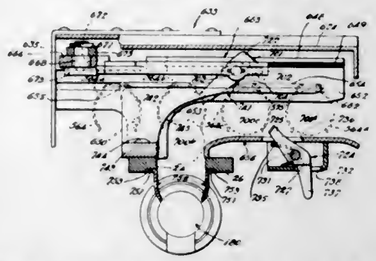
A method of preparing concentrated free vat acids from difficultly soluble vat dyestuffs comprising the steps of mixing a vat dyestuff with alkali and a reducing agent to a dispersion containing water in an amount insufficient to dissolve the dyestuff, reducing the dyestuff in said partly undissolved state to its leuco compound, and adding an acid agent in an amount sufficient to form the free vat acid, thereby obtaining the readily soluble vat acid of said vat dyestuff in fine dispersion.

2,590,214

FEEDING MECHANISM FOR AUTOMATIC GUNS

Roy S. Sanford, Woodbury, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut

Application April 12, 1946, Serial No. 661,545
14 Claims. (Cl. 89—33)



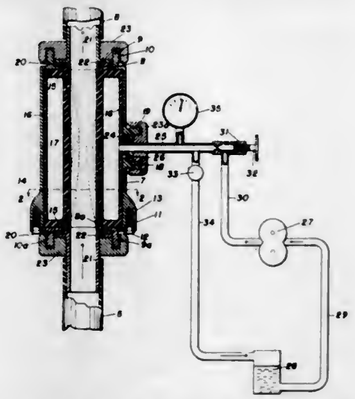
1. In an automatic gun adapted to fire cartridges and including a receiver having an aperture for passage of cartridges thereinto immediately adjacent the breech of the gun, the combination comprising a link member individual to each cartridge and having resilient elements for gripping the cartridge for presentation thereof to a predetermined position immediately adjacent the aperture, means for moving said link member to presenting position, and means for dislodging the cartridge from said resilient elements, said resilient elements being movable along a line adjacent the aperture whereby said resilient elements are effective after such dislodgment for maintaining the cartridge in said predetermined position immediately adjacent the aperture.

2,590,215

VARIABLE THROAT RESTRICTER VALVE

Frank C. Sausa, Englewood, Colo.

Application February 21, 1947, Serial No. 730,094
4 Claims. (Cl. 138—45)



1. A variable throat liquid flow control valve comprising, an elongated tubular housing having end closures provided with openings of smaller cross sectional area than and in axial alignment with the interior of the housing, a cylindrical flange integral with and projecting outwardly from each end closure, the inside diameter of the flange being larger than the diameter of the opening, forming an inwardly extending flange, a tube of elastic material positioned in the housing, the ends of the tube projecting through the openings in the end closures, the tube terminating in outward flanges lapping the flanges within the cylindrical flanges, one surface of each cylindrical flange being threaded, a clamping member threadedly connected with each flange and provided with a tubular plug positioned to engage the corresponding flange of the tube, forcing it against the end closure to form a seal, and means for introducing a fluid into the space between the tube and the inside of the housing, under sufficient pressure to decrease the cross sectional area of the tube.

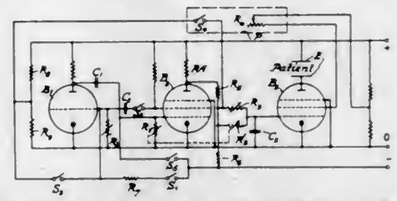
2,590,216

DEVICE FOR PRODUCING ELECTRIC PULSES, PARTICULARLY FOR MEDICAL PURPOSES

Felix Schuhfried, Vienna, Austria

Application January 21, 1949, Serial No. 71,968
In Austria June 30, 1948
13 Claims. (Cl. 128—422)

1. A device for producing electrical pulses for purposes of medical therapy and/or diagnostic, comprising, in combination, a multivibrator circuit having two thermionic tubes each including a cathode, a plate and at least one grid therebetween, said two thermionic tubes being interconnected by a first time-constant network for controlling the duration of the pulses, by a second time-constant network for controlling the intervals between the pulses, of which said two time-constant networks one at least is variable,



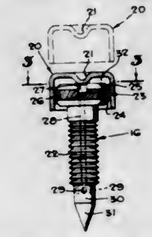
and also by a third time-constant network adapted to receive the output pulses of the multivibrator and being variable for controlling the rise time (slope of the curve) of the output pulses, and means for connecting the output of said multivibrator circuit to two electrodes adapted to be applied to the body of the patient.

2,590,217

COMBINED AIR FILTER AND NEEDLE VALVE

Cyrus L. Snyder, Hawthorne, and John W. Schroeder, Los Angeles, Calif., assignors, by direct and mesne assignments, to Lucile M. Hursh, San Marino, Calif.

Application August 31, 1948, Serial No. 47,086
5 Claims. (Cl. 183—44)



1. For use with an air bleed needle valve of the type in which air is admitted through a passageway formed in the shank of said valve, a filter for said air comprising: a head formed on the rearward end of said valve, said head having a rearward opening of said passageway formed therein; an imperforate cap received on said head to enclose all but the undersurface thereof and to form an enclosed chamber adjacent said opening; and a plurality of relatively restricted channels formed in said head and opening in said undersurface to admit air into said chamber.

2,590,218

TRACTOR HITCH

Donald F. Steil, Dodgeville, Wis.

Application January 27, 1949, Serial No. 73,031
5 Claims. (Cl. 280—33.15)

4. A hitch mechanism for hitching an unpowered mobile unit to a powered vehicle, said mechanism comprising a plurality of extensible members including a substantially hook-shaped member whereby the hitch coupling of said unpowered unit may be moved from a remote position to a position adjacent the hitch coupling of said powered vehicle, a pin substantially at one end of said extensible members for securing said hitch couplings in adjacent relationship, a locking member pivotally mounted adjacent said pin for securing said pin in securing position, and a mem-

ber pivotally mounted on one of said extensible members and on said locking member to pivot



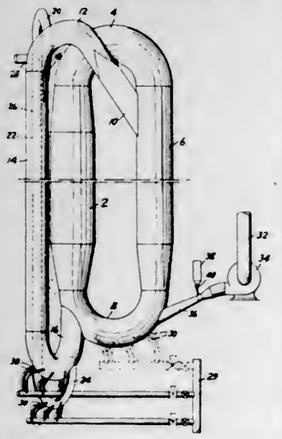
said member to and from locking position in response to relative collapse and extension of said extensible members.

2,590,219

METHOD OF EFFECTING CHEMICAL REACTIONS

Nicholas N. Stephanoff, Bryn Mawr, Pa., assignor, by mesne assignments, to C. H. Wheeler Manufacturing Company, a corporation of Pennsylvania

Application June 15, 1945, Serial No. 599,690
6 Claims. (Cl. 23—1)



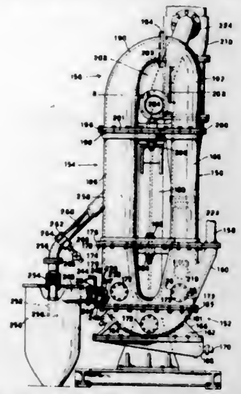
1. The method of producing chemical action and maintaining prolonged contact between an elastic fluid and a non-gaseous material while continuously removing finer non-gaseous material comprising effecting suspension of the material in the elastic fluid; recirculating the suspension through an agitation zone in a closed first path to effect, by centrifugal force, a gradation in the distribution according to particle size of the suspended material in the elastic fluid; extracting from said first path in a direction substantially non-concurrent, at the point of extraction, with the direction of flow of the suspension in said first path material of a smaller particle size than the suspension recirculating in the said first path; subjecting the extracted suspension to curved flow in a second path to effect, by centrifugal force, a gradation in the distribution according to particle size of the suspended material in the elastic fluid; extracting from said second path a minor portion of the elastic fluid with entrained suspended material of smaller average particle size than the suspension extracted from said first path; and returning the remaining major portion of the elastic fluid, with entrained suspended material of larger average particle size than that extracted from said first path, to said closed first path.

2,590,220

APPARATUS FOR TREATING MATERIALS IN SUSPENSION IN ELASTIC FLUID

Nicholas N. Stephanoff, Bryn Mawr, Pa., assignor to C. H. Wheeler Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 17, 1948, Serial No. 8,887
13 Claims. (Cl. 241—39)



1. Apparatus for the treatment of material in comminuted form in suspension in elastic fluid comprising an endless casing having a curved grinding chamber section, a stack section, said grinding chamber section having a flange which is bolted to a corresponding flange in the stack section, a bolt passing through said flanges forming an axis about which the grinding chamber section may be rotated, a curved classifier section having a flange which is bolted to a corresponding flange on the stack section, a bolt through the classifier section flange and the corresponding stack section flange providing an axis about which the classifier section may be rotated, means for supporting the stack section, means to admit raw material into the casing, means to admit an elastic fluid to provide high velocity jets in the casing and an exhaust passage.

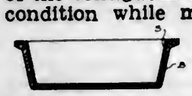
2,590,221

RECEPTACLE AND METHOD OF MAKING THE SAME

Samuel S. Stevens, Plattsburg, N. Y., assignor, by mesne assignments, to The Diamond Match Company, New York, N. Y., a corporation of Delaware

Application April 25, 1947, Serial No. 743,857
10 Claims. (Cl. 154—83)

1. The method of compositing an imperforate fibrous receptacle body and a sheet of thermoplastic which comprises: heating an imperforate fibrous receptacle body to a temperature above the fusion temperature of the thermoplastic sheet to be composited therewith, thereafter shaping and bringing such sheet of thermoplastic into facially contacting conformation with one face of said imperforate heated fibrous body, and holding them in contact for a sufficient period of time to permit the heat of the body to fuse the surface strata of the contiguous side of the sheet into bonding condition while maintaining the



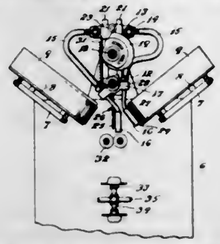
opposite side of the sheet at a temperature below the fusion point of such thermoplastic, whereby the sheet and fibrous body become firmly adhered together by solidification and setting of the resulting thermoplastic bond when subsequently cooled.

2,590,222

FEEDER FOR ENVELOPE STUFFING MACHINES

Anton Van Veen, Canton Center, Conn.

Application May 31, 1946, Serial No. 673,409
12 Claims. (Cl. 271—9)



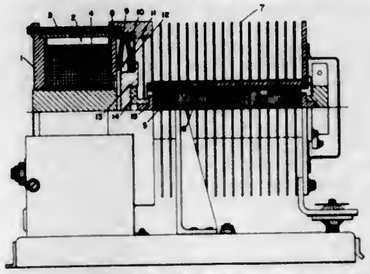
1. A stuffing machine which comprises a conveyor, a pair of hoppers, the said hoppers being located at opposite sides of the conveyor and each having a discharge end spaced from the conveyor and from the discharge end of the opposite hopper, picker fingers between said discharge ends and spaced from each other, each of said fingers being associated with one of said discharge ends for picking material therefrom; the said fingers being relatively spaced so that one finger is in position to receive material from its respective hopper while the other finger is in position to deliver material upon the conveyor, and mechanism for moving said fingers into material receiving and delivering positions.

2,590,223

ELECTRICAL REGULATOR

Omar C. Walley, Cleveland, and Carl F. Scheu, Lakewood, Ohio, assignors to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware

Application May 24, 1951, Serial No. 228,048
5 Claims. (Cl. 201—51)



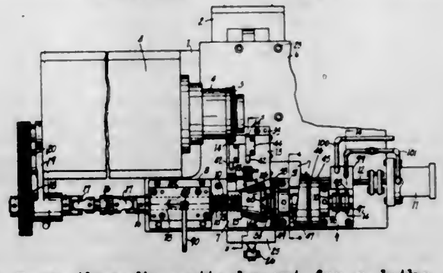
1. In an electromagnetic spring actuated carbon pile regulator having an electromagnet, a carbon pile having one end fixed relative to said magnet, a spring ring assembly engaging the other and movable end of said carbon pile and an armature of said magnet for carrying said spring ring assembly, said spring ring assembly comprising a pair of spring rings mounted to have their concave surfaces opposing each other in peripheral abutment with each other to exert a resilient compressive force on said carbon pile discs and form a pneumatic cushion to oppose and damp out linear movements of said armature against the action of said spring rings.

2,590,224

THREADING ATTACHMENT FOR LATHES

Adam E. Armstrong, Three Rivers, Mich., assignor to Armstrong Machine Works, Three Rivers, Mich.

Application January 17, 1947, Serial No. 722,488
29 Claims. (Cl. 10—101)



8. In a threading attachment for a lathe, a longitudinally movable carriage adapted to be mounted on a lathe, a transversely movable tool holder mounted on said carriage, a cam shaft, a lead cam on said shaft arranged to effect movement of said carriage, a fixed member on said carriage and extending around said cam shaft, a bushing extending through said fixed member and around said cam shaft, a ratchet cam member rotatable on said bushing, spring pressed detents restraining said ratchet cam against rotation, a plurality of axially stepped cam surfaces on said ratchet cam opposing said fixed member, a stop mounted in said fixed member and successively engageable with said cam surfaces to impart axial motion to said ratchet cam, a second cam rotatable with said cam shaft and having a cam surface arranged to impart transverse motion to said tool holder upon rotation of said second cam, a pawl carried by said second cam and spring urged toward engagement with said ratchet cam, and a pawl disengaging band carried on said fixed member arranged to hold said pawl in disengaged position except during a fraction of the rotation of said second cam equal to the reciprocal of the number of different cam faces on said ratchet cam, said second cam having an oblique engagement with said tool holder whereby axial movement of said ratchet cam and second cam imparts transverse movement to said tool holder.

2,590,225

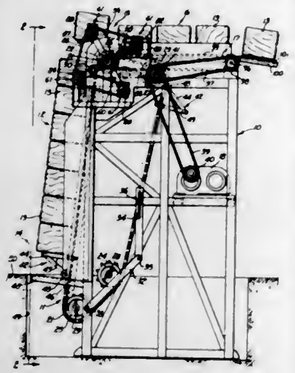
BOX HANDLING MECHANISM

Quinter E. Bashore, Covina, Calif.

Application June 27, 1947, Serial No. 757,522
20 Claims. (Cl. 214—8.5)

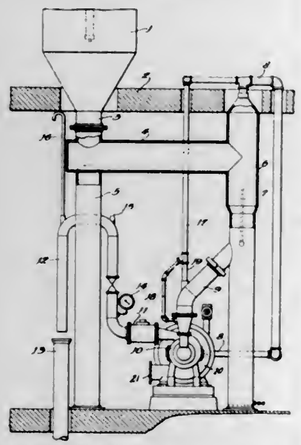
1. A box-handling apparatus of the character described, including: a supporting structure; a pair of clamping members which are carried by said supporting structure and which are movable relative thereto from inoperative to operative positions along horizontally spaced, downwardly

converging paths, said clamping members, when in their inoperative positions, being spaced apart horizontally a distance sufficient to receive a box therebetween and, when in their operative positions, engaging opposite surfaces of the box, whereby the weight of the box tends to cause



said clamping members to continue to move along said downwardly converging paths so as to increase the clamping forces applied to the box thereby; and means for moving said clamping members between said inoperative and operative positions.

2,590,226
CONDENSATE SEPARATOR
Arnold W. Baumann, Chicago, Ill.
Application June 25, 1947, Serial No. 756,994
4 Claims. (Cl. 183—34)



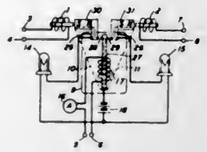
1. In a condensate separator of the type adapted for use with a condenser in milk condensing plants, a condensate discharge pump, a dry vacuum pump, and a gas and water separating piping unit making sealed connection between the condenser and said pumps, said piping unit including an upright header whose upper portion is connected to said dry vacuum pump and whose lower portion forms a liquid receiver connected to said condensate pump, and a laterally extending flume-like conduit connecting the condenser and said header and providing a passage only partially filled with liquid during normal operation of the device so that gas may readily escape from the condensate flowing through the conduit to the header.

2,590,227
BUILDING CONSTRUCTION
Frederick P. Bingman, Birmingham, Mich., assignor to The R. C. Mahon Company
Application April 7, 1947, Serial No. 739,790
6 Claims. (Cl. 108—23)



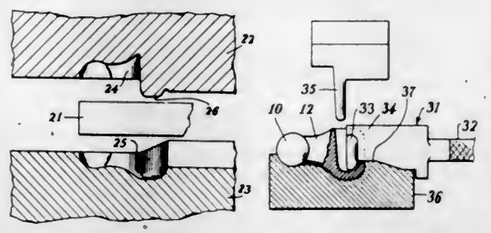
1. A truss structure comprising a continuous lower sheet forming the tension chord of the truss structure, a continuous upper sheet forming the upper chords of the truss structure, said sheets having their longitudinal side edges deformed to provide male and female flanges respectively whereby a plurality of such truss structures may be interconnected by connecting the male flange of one such truss structure with the female flange of an adjacent structure, a plurality of braces for interconnecting said upper and lower sheets, and means interconnecting said braces and including plate means adapted to be gripped between one of said first-named flanges and a cooperating flange on an adjacent truss structure.

2,590,228
METHOD OF ADJUSTING POLAR RELAYS
John T. L. Brown, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 31, 1948, Serial No. 68,690
3 Claims. (Cl. 175—320)



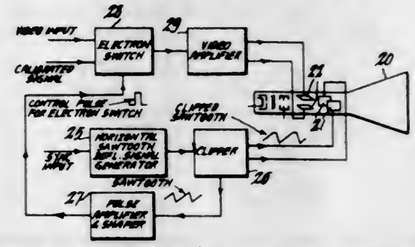
1. In a method for adjusting the sensitivity of unadjusted polar relays of the type wherein an armature is to be actuated in response to currents of specified amplitudes and directions of flow through a winding which is magnetically coupled to said armature so as to cause said armature to make contact with one or the other of two pole-pieces which are initially over-magnetized for the winding current sensitivity values ultimately required by two permanent magnets of opposite polarity individually associated therewith, the steps comprising the permanent demagnetization of any one of said over-magnetized permanent magnets in small increments until a first sensitivity current through said winding of specified amplitude and a direction of flow which magnetizes the armature to an opposite magnetic polarity with respect to said demagnetized permanent magnet is capable of causing the armature to move away from the pole-piece associated with the demagnetized permanent magnet if said armature is in contact therewith thereby contacting the armature with the opposite pole-piece, the permanent demagnetization of the other of said permanent magnets in small increments until a second sensitivity current value flowing through said winding is capable of causing the armature to move away from the pole-piece associated with the second demagnetized permanent magnet if said armature is in contact therewith thereby contacting the armature with the opposite pole-piece, and the repeating of these demagnetization steps until no further demagnetization of either permanent magnet is required to render the armature capable of traversing from one pole-piece to the other pole-piece in response to said first sensitivity current of specified amplitude and direction of flow and in the reverse direction in response to said second sensitivity current of specified amplitude and direction of flow.

2,590,229
METHOD OF MAKING SOCKET FOR ELECTRICAL HARDWARE AND FITTINGS
Charles S. Card, Cortland, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York
Application February 17, 1948, Serial No. 8,818
1 Claim. (Cl. 29—148)



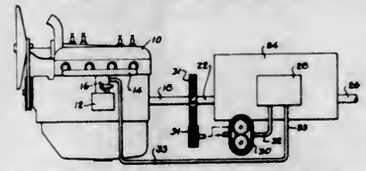
The method of making from a blank of metal a fitting having a ball socket adapted to removably receive a ball fitting and having a side entrance opening and a top opening communicating therewith which comprises: first heating the blank to forging temperature; forging a socket in the blank from one side thereof so as to form a socket with a base, outwardly flared side walls and a side opening at the end of the outwardly flared side walls with the side walls turned inwardly at the top so as to form an inturned lip with a top opening communicating with the socket and extending to the side opening from a point adjacent the wall opposite to the side opening and flaring outwardly substantially parallel to the side walls; thereafter inserting in the socket a tool having curved upper surfaces similar to the surfaces of the ball fitting which is to be used with the socket and having an upwardly extending web which is inserted in the top opening; then inserting a wedge-like mandrel in the lower portion of the socket between the base and the tool so as to force the tool against the top of the socket and with the mandrel projecting outwardly through the lower portion of the side opening so as to provide support for the lower portion of the side walls but leaving the upper portion of the side walls adjacent the side opening unsupported by the tool or mandrel; next bending the unsupported upper ends of the side walls while they are at forging temperature inwardly around the web and around the top and sides of the tool so as to provide a concave top for the socket with a slotted opening and with ball retaining portions at the upper end of the side entrance opening and with the lower portion of the side walls held in spread condition by the mandrel so as to provide an enlarged entrance at the lower portion of the side opening; then removing the mandrel through the lower portion of the side opening; and finally shifting the tool to the lower portion of the socket and removing it through the entrance portion of the side opening.

2,590,230
CATHODE-RAY TUBE AMPLITUDE INDICATING APPARATUS
Donald H. Castle, New Canaan, Conn., assignor to Radio Corporation of America, a corporation of Delaware
Application December 26, 1947, Serial No. 794,030
9 Claims. (Cl. 171—95)



1. In a signal level indicating apparatus, a source of signals of known voltage, a cathode ray tube having means for generating and directing a cathode ray toward a reproducing target, means for sweep deflecting said cathode ray beam in a first coordinate of movement at a predetermined rate, means to interrupt the sweep deflection of said beam for a predetermined time, means for deflecting said cathode ray beam in a second coordinate of movement and means for impressing the signals of known voltage onto the second coordinate deflecting means of the cathode ray tube during the predetermined timed interruption of the beam sweep deflection.

2,590,231
AUTOMATIC TRANSMISSION CONTROL
Roland Chilton, Glen Rock, N. J.
Application July 12, 1946, Serial No. 683,134
23 Claims. (Cl. 74—336)

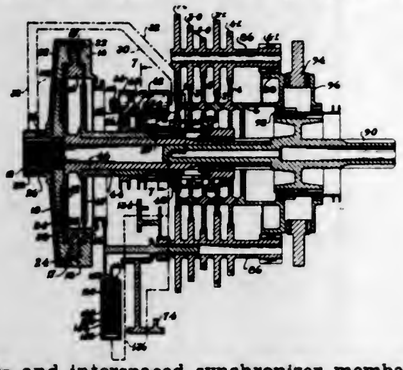


1. In combination, a fluid motor having a piston movable with changes in the pressure of a fluid, means providing a sharp-edged pressure-relief orifice for said fluid, a member having an edge so arranged that movement of said piston effects relative movement of said orifice and edge to vary the effective size of said orifice, and means for independently adjusting the position of the ends of said member for varying the relationship between the piston position and the effective size of said orifice.

2,590,232
MULTISPEED TRANSMISSION AND AUTOMATIC TRANSMISSION CONTROL
Roland Chilton, Ridgewood, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Original application June 23, 1943, Serial No. 492,165, now Patent No. 2,416,154, dated February 18, 1947. Divided and this application October 26, 1946, Serial No. 705,955
26 Claims. (Cl. 74—336)

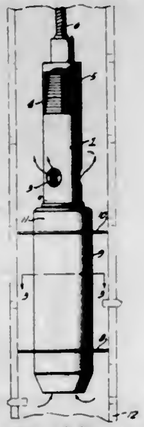
1. In a multi-speed transmission, a co-axial series of gears and interspaced frictionally cooperating synchronizer members all having

teeth, and a selector member having a set of teeth shiftable back and forth through said series of



gears and interspaced synchronizer members to engage and disengage said set of teeth with said synchronizer and gear teeth from either side.

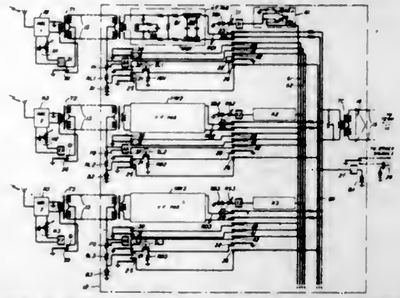
2,590,233
FEELER TOOL FOR CASING PROTUBERANCES
Elmo L. Condra, Long Beach, Calif.
Application February 5, 1949, Serial No. 74,759
2 Claims. (Cl. 33—1)



1. A feeler tool comprising a mandrel, coupling means on the upper end of said mandrel, a shoulder on the lower end of said mandrel, a plate resting on said shoulder, a sleeve surrounding the mandrel and bearing against said plate, a second plate resting on said sleeve, a nut threaded on said mandrel and bearing against the second plate, each of said plates being materially greater in diameter than the mandrel, said mandrel having a longitudinally extending bore therein, and having lateral openings in the wall thereof extending to the bore, said openings being positioned above the upper plate.

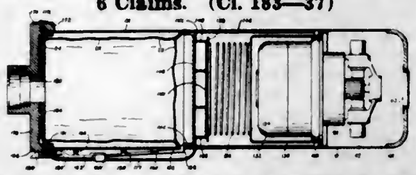
2,590,234
AUTOMATIC SELECTION OF RECEIVING CHANNELS
Harry B. Coxhead, Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 30, 1948, Serial No. 17,917
8 Claims. (Cl. 250—20)

1. A radio receiving system comprising a plurality of radio receivers at different geographical locations and all adapted to receive the same signal, a common signal channel, a signal circuit respective to each receiver and normally connected with said common channel for delivering the receiver signal output into said channel whenever said signal output is of preassigned minimum signal-to-noise ratio, relay means at each receiver responsive to signal output thereat of such ratio, relay means respective to each signal circuit and responsive to operation of said first-mentioned means, additional relay means respective to each signal circuit and normally responsive to operation of the first-to-operate of said second-mentioned relay means in and respective to said other signal circuits for disconnecting its respective signal circuit from said common channel, and key-controlled means respective to each of said additional relay means for



maintaining the latter in either of its operated and non-operated conditions whereby its respective signal circuit remains either connected with or disconnected from said common channel regardless of the operating condition of said second-mentioned relay means respective to the other signal circuits; such key-controlled means comprising normally-closed contacts included in the normal operating circuit of its respective additional relay means and normally-opened contacts included in a normally-open operating circuit for such additional relay means independent of such first-mentioned operating circuit, such contacts being arranged for individual opening or closure, respectively, upon manipulation of the key, to open the normal operating circuit of such additional relay means or to close such normally-open operating circuit of such additional relay means.

2,590,235
VACUUM CLEANER
George H. Cranmer, Philadelphia, Pa., assignor to Electrolux Corporation, New York, N. Y., a corporation of Delaware
Original application September 22, 1945, Serial No. 618,022, now Patent No. 2,564,467, dated August 14, 1951. Divided and this application November 24, 1950, Serial No. 197,443
6 Claims. (Cl. 183—37)



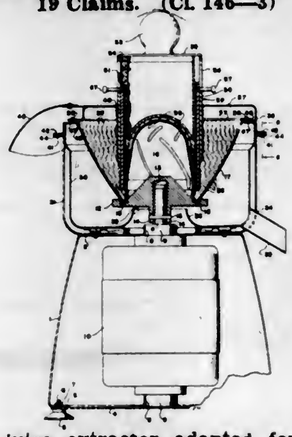
1. In a vacuum cleaner, a casing having an opening, a cover for closing said opening, a dust bag insertable into and removable from said container through said opening, means for producing flow of air through said casing and through the dust bag therein, said dust bag having an aperture through which the air enters the bag, a valve member on said bag for closing said aperture, means biasing said valve member towards closed position, a displaceable abutment on said bag for holding said valve member in open position, and means on said cover for displacing said abutment out of valve holding position when the cover is closed and for holding said valve member open until the cover is opened.

4. A dust separating and containing member for a vacuum cleaner including, a disc formed with an inlet opening, a bag of filter material secured to said disc, a valve member on said disc for closing said opening, means for biasing said valve towards closed position, and a displaceable tab struck out of said disc for retaining said valve member in open position.

2,590,236
FUGITIVE TINT FOR CELLULOSE ACETATE
Walter E. Davis, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application February 25, 1949, Serial No. 78,469
1 Claim. (Cl. 8—56)

A textile tinting composition suitable for the fugitive tinting of cellulose acetate textile materials containing 1.5 parts by weight of p-aminobenzene-azo-1:8-dihydroxynaphthalene-3:6 - disulfonic acid dispersed in a mixture of 96.3 parts by weight of water and 2 parts by weight of isobutyl alcohol with the aid of 0.2 part by weight of the dibutyl ester of sodium sulfosuccinic acid.

2,590,237
JUICE EXTRACTOR
William A. Doering, Palo Alto, Calif.
Application December 19, 1949, Serial No. 133,704
19 Claims. (Cl. 146—3)



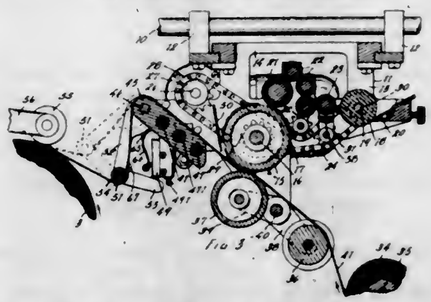
18. A juice extractor adapted for removing juice from leafy vegetables and citrus fruits comprising a conoidal reamer having a hemispherical dome, teeth on the hemispherical and conical surfaces of said reamer, a motor for rotating said reamer about its axis at high speeds, a chute surrounding said reamer at one end and extending at the other end a substantial distance beyond the dome of the reamer to provide a feed chamber for leafy vegetables, said chute and reamer having closely spaced substantially parallell surfaces adjacent to the said one end of the chute, said parallel surfaces having cooperating disintegrating means, and a bowl for receiving juice from said chute.

2,590,238
TRAILER BRAKE OPERATING LINK
Darrow P. Durham, Long Beach, Calif.
Application October 11, 1948, Serial No. 53,871
3 Claims. (Cl. 74—582)



1. An operating link for trailer brakes consisting of a clamp, a set screw threaded into the clamp, a second clamp, bolts on the second clamp fixedly securing the second clamp to a brake pedal of a car, an elongated coil spring, means securing one end of said spring to the first named clamp, a rod, a pin extending through the lower end of the rod and through the second clamp to pivotally secure the rod to said second clamp, a head on the upper end of said rod fitted in the coils of said spring and slidable within the spring whereby said rod may move longitudinally in the spring.

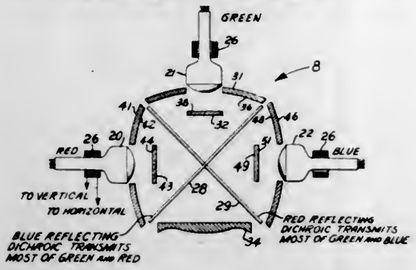
2,590,239
METHOD AND APPARATUS FOR PRINTING AND APPLYING LABELS TO WRAPPING PAPER
James L. Elsman, Parchment, Mich.
Application December 30, 1948, Serial No. 68,156
19 Claims. (Cl. 154—1.6)



1. In the art of applying a printed band or label strip to the web of a roll of wrapping paper as it is unwound for use comprising, the steps of providing a label strip of paper having a wax penetration barrier on one side thereof and a paraffin wax coating over the barrier, the other side of the strip being without wax and receptive to printing, translating the printing receptive side across a printing cylinder to receive printing therefrom, immediately thereafter translating the strip across a heating element with the waxed side contacting therewith and whereby the wax is fused and rendered adhesive and the ink is dried, and while the wax remains in adhesively fused condition guiding the strip by

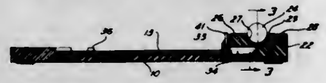
means coacting with the printed side thereof to and pressing it upon the peripheral convolution of the roll of wrapping paper by pressure applied to the printed side of the strip and as the wrapping web is being unwound from the roll.

2,590,240
MULTIPLE IMAGE PROJECTOR
David William Epstein, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1948, Serial No. 41,851
6 Claims. (Cl. 178—5.4)



1. A projector for superposing a plurality of projected images in substantially accurate register to be viewed as a single image by an observer comprising a plurality of reflective projector systems, each system having a mirror, the reflecting surface of which is a surface of revolution and a plane mirror, the optical axes of all of said systems each having a portion extending in the direction of the superposed image which coincides, and each system having associated therewith a luminous image source and deflectable means for producing a bidimensional luminous image.

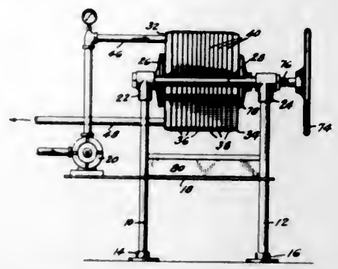
2,590,241
COIN-COUNTING AND WRAPPING DEVICE
Gweldon O. Ewart, Ollie, Iowa
Application February 9, 1950, Serial No. 143,300
5 Claims. (Cl. 53—114)



1. In a device of the class described, a base plate, V blocks for receiving a stack of coins, spacers for limiting the space available for coins to thus limit the number of coins to be placed in the space, and a slot for directing a wrapper upwardly from beneath and around the coins so that the stack of coins may be rotated to carry the wrapper around the coins and thus wrap the coins.

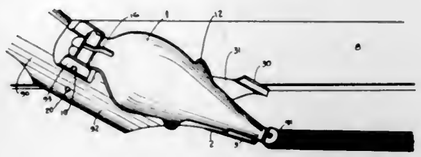
2,590,242
MULTIPLE DISK FILTER
Carlo J. Fusco, Chicago, Ill.
Application November 23, 1945, Serial No. 630,355
2 Claims. (Cl. 210—188)

1. A filter unit comprising a supporting frame having a pair of front upright post members and a pair of back upright post members, a cross-brace horizontally connected between said pair of front upright post members and a similar cross-brace connected between said pair of back upright post members, a pair of parallel horizontally disposed rod members connected between the two front and the two back cross-braces, a front and a back end plate, a fluid inlet conduit and a fluid outlet conduit connected to said back end plate, a medial boss on each of said end plates, the boss on said back end plate positioned against said back cross-brace, a plurality of generally square, similarly shaped filter plates and filter sheets, each filter plate and each filter sheet having hook members formed thereon by removing



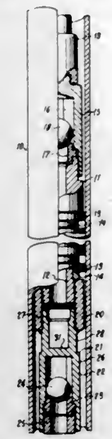
small portions thereof at opposite corners within the square, said hook members terminating in parallel side edges and adapted to engage on said rods to support said filter plates and filter sheets thereon, the rods being adjacent the parallel side edges and said plates and sheets being supported by gravity upon said rods, said plates and sheets having openings therein aligned with said fluid inlet and outlet, and clamping means screw-threadedly mounted in said front cross-brace adapted to bear against the boss on said front end plate to assemble said end plates, filter plates and filter sheets in operative relation against the boss on said back end plate.

2,590,243
RULING GUIDE FOR ARTISTS' PENS
Ross F. George, Seattle, Wash.
Application June 22, 1945, Serial No. 600,999
15 Claims. (Cl. 33—41)



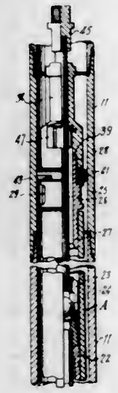
10. A reservoir device for pens of the split nibs type, having means for movable support from the pen body, back from the writing tip, and extending thence along the pen to the vicinity of such tip as a feeder for ink, and so movable away from such tip for cleaning, said feeder means extending laterally outward beyond and out of contact with the opposite outer edges of the pen's nibs in the vicinity of its tip and being curled about such edges, respectively, to present to a straightedge generally uprightly disposed outer ruling guides, such ruling guides being of a length which is a material portion of the length of such nibs.

2,590,244
VALVE CAGE
Dixon T. Harbison, Fort Worth, Tex.
Application February 21, 1948, Serial No. 10,061
2 Claims. (Cl. 251—121)



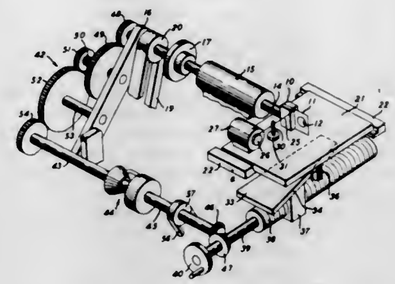
1. A blind valve cage including, a one-piece body having an axial bore therein, an annular shoulder in the bore constructed to receive a valve seat thereagainst, the body having a valve-ball-receiving chamber in the bore above the annular shoulder, an integral bridge extending transversely and substantially diametrically of the bore immediately above the valve-ball-receiving chamber, the bore having equally spaced longitudinal grooves in its wall in the chamber and valve-ball-guide surfaces formed intermediate the grooves, said grooves being arcuate and relatively shallow in cross-section and being of substantially the same transverse width as the guide surfaces and merging smoothly thereinto so as to eliminate sharp corners and areas of small radii of curvature within the bore of the body and to retain the optimum tensile and bursting strength therefor.

2,590,245
SAND RING FOR INSERT PUMPS
Dixon T. Harbison, Fort Worth, Tex.
Application May 8, 1948, Serial No. 25,853
5 Claims. (Cl. 103—220)



5. In combination with an insert well pump having a pump barrel and adapted to be inserted as a unit in a well tubing, a rod guide connected to the pump barrel, means forming a ring groove between the rod guide and the pump barrel, and a collapsible sand ring mounted in the ring groove adapted to engage the wall of the well tubing.

2,590,246
APPARATUS FOR WINDING STRANDS ON ARTICLES
Edward A. Heckman and John J. Kling, Allentown, Pa., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 18, 1949, Serial No. 122,066
3 Claims. (Cl. 242—7)

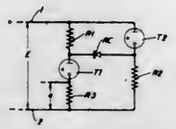


1. A machine for winding strand material on an article comprising rotating means to support and rotate the article about a fixed axis, a carriage supported for movement in a given path relative to the article between a starting position and a stopping position, a supply of strand material rotatably supported at a given position on the carriage, a tensioning unit mounted on the carriage for creating a given tension in the strand material during winding of the material on the article, a distributor element mounted on and movable with the carriage, a straight surface cam movable relative to the carriage, a follower supported by the carriage to engage the cam, and means to move the cam at a given speed in synchronism with the rotary speed of the article to move the carriage to simultaneously move the distributor element, the supply and the tension unit to uniformly distribute the material on the article.

2,590,247
METHOD OF BROMINATING 1-AMINO-2-SULFO-ANTHRAQUINONE
Clarence E. Hieserman, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application August 28, 1948, Serial No. 46,721
3 Claims. (Cl. 260—371)

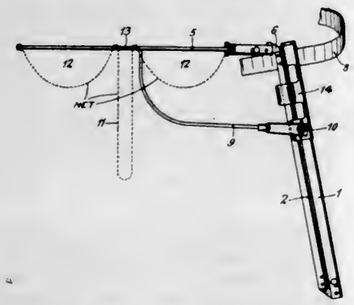
1. Process for the production of 1-amino-2-sulfo-4-brom-anthraquinone, which comprises passing a mixture of bromine vapor and air into a solution containing essentially water, from about 2.5 to 4%, based on the weight of the solution, of 1-amino-2-sulfo-anthraquinone and an inorganic salt, selected from the group consisting of sodium chloride, potassium chloride and sodium sulfate, in an amount sufficient to cause the precipitation of the 1-amino-2-sulfo-4-brom-anthraquinone while substantially avoiding the replacement of the 2-sulfo group in the 1-amino-2-sulfo-anthraquinone by bromine.

2,590,248
VOLTAGE SENSITIVE CIRCUIT
William H. T. Holden, Woodside, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 18, 1948, Serial No. 66,129
2 Claims. (Cl. 323—23)



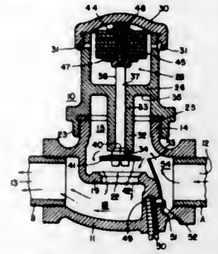
1. A voltage-sensitive circuit comprising in combination a first and a second conductor, means for producing a voltage between said two conductors, a first and a second diode gas-discharge device, a first, a second, and a third resistor, and a rectifier, the anode of said first gas-discharge device being connected to said first conductor and the cathode thereof being connected to said second conductor through said first resistor, the anode of said second gas-discharge device being connected to said first conductor through said second resistor and the cathode thereof being connected to said second conductor through said third resistor, and said rectifier being connected between the cathode of said first gas-discharge device and the anode of said second gas-discharge device, whereby said elements are responsive to said voltage to produce a voltage drop in said third resistor substantially equal to the sum of the sustaining voltages of said gas-discharge devices when said voltage is greater than said sum.

2,590,249
FISHING NET ATTACHMENT
Asbjörn Hörgård, Drontheim, Norway
Application October 8, 1946, Serial No. 702,005
In Norway October 16, 1945
1 Claim. (Cl. 43—4)



An attachment for a landing net of the type having a handle with a ring-shaped frame and a net secured thereon, comprising a holder having means to clamp it on said handle and adapted to be secured on a belt, an arm pivotally mounted at one end on the holder and means to secure said arm in a pivotally adjusted position on the holder, said arm having an offset portion terminating in an eye member at the other end thereof, said arm being adjustable to bring the eye member into the plane of the ring-shaped frame of the net so that a portion of the net may be drawn through the eye member to form an annular trough with the remaining part of the net between said eye and frame into which a fishing line may be coiled for casting purposes.

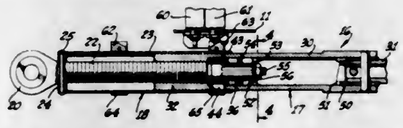
2,590,250
EXCESS FLOW CHECK VALVE
Alfred E. Horman, New York, N. Y.
Application September 10, 1948, Serial No. 48,594
5 Claims. (Cl. 251—148)



1. In a protective device for closing a conduit in the event of excessive flow therethrough, the combination of a valve casing comprising three separate parts screwed together, one of said parts being a hollow shell having an inlet at one end, an outlet at the opposite end, an opening in the side thereof, and an interior partition facing the side opening and dividing the interior of the shell into a valve chamber and a discharge chamber, said partition provided with an opening normally placing the two chambers in fluid communication, said opening on the side facing the valve chamber being beveled to form a main valve seat facing the flow from the inlet, another of said parts being a barrel-like extension closing the side opening and provided with a barrel partition dividing in the interior thereof into an extension chamber opening into the valve chamber and a weight-containing chamber whose outer end is open for access thereto, and the third part constituting a closure cap for closing the open end of the weight-containing chamber, the barrel partition provided with a bore extending between the valve chamber and the weight-containing chamber and perpendicular to the plane of the main valve seat, the portion of the barrel partition outlining the bore at the end facing the valve chamber being beveled to form a secondary valve seat, a freely floating valvular construction comprising a stem guided in the bore and provided at the end of the stem within the valve chamber with two superposed valves, one of said two valves forming a main valve of the differential type fashioned to fit the main valve seat with its greater area exposed to the pressure in the discharge chamber and its lesser area exposed to the pressure in the valve chamber and said valve operative when in engagement with its seat to close the same at least substantially, and a secondary valve fashioned to fit the secondary valve seat to defeat leakage from the valve chamber out through the bore, the end of the stem within the weight-containing chamber provided with fastening means for securing one or a plurality of weight-forming disks to the valvular construction and at least one of said disks secured to the stem by said fastening means and operating in a tendency to load the main valve and to move the same gravitationally on to its associated main valve seat.

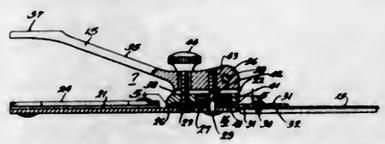
3. An excess flow check valve including a valve casing provided with a conduit extending therethrough having at one end an inlet and at its other end an outlet and therebetween having means forming a valve seat facing the direction of flow from the inlet and provided with an opening therethrough forming a portion of the conduit between its inlet and outlet, a differential valve normally biased to fall gravitationally on to the seat to close the same at least substantially, the area of the valve on the side thereof engaging the seat and thus the area exposed to the pressure of the fluid passing therethrough at the outlet being greater than the area of the valve on the opposite side exposed to the pressure at the inlet whereby normally and with a free flow through the conduit and thus with the pressures on opposite sides of the seat approximately balanced the valve will be held off its seat and the conduit open, means for guiding the valve along a pressure line perpendicular to the plane of the valve seat and means including a baffle plate located in the conduit between the inlet and the valve seat for directing the fluid reflectively on to the smaller area of the valve and in the direction to close the valve on to its seat.

2,590,251
MECHANICAL ACTUATOR
Vaino A. Hoover, Los Angeles, Calif.
Application September 29, 1948, Serial No. 51,783
5 Claims. (Cl. 74—424.8)
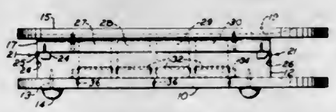


1. A linear actuator of the class described which includes: a female screw-threaded rotatable and axially immovable driving member; a male screw-threaded non-rotatable driven member threadedly engaging said driving member and axially movable with respect thereto, said female driving member defining an elongated tubular bearing surface; connecting means attached to one end of said driven member for connection to a load to be moved by said linear actuator; a first stop member connected to said driving member for rotation therewith having a jaw with a generally axially extending face; and a second stop member connected to said driven member at the other end thereof remote from said connecting means for axial movement therewith and having a jaw with a generally axially extending face, said first and second stop members being located so that the jaws thereof engage to prevent further rotation of said driving member in one direction when said driven member has reached the limit of its axial travel in said direction, said second stop member defining an outer cylindrical bearing surface engaging and coacting with said elongated tubular bearing surface to support and guide said other end of said driven member during the relative axial and rotational movement of said driven and driving members.

2,590,252
PERSPECTIVE DRAFTING DEVICE
Edmund E. Hurst and John Warren Paxton, Bloomington, Ill.
Application October 30, 1948, Serial No. 57,452
8 Claims. (Cl. 33—77)



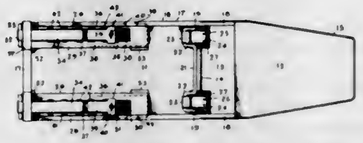
8. In a drafting device of the class described, the combination of a mounting member, an arm pivotally attached to said member, a straight edge attached to said arm, a lever attached to said member above said arm for pivotal movement about an axis transverse to the axis of the pivotal mounting of said arm, friction means interposed between said lever and said arm, a shoulder on the underside of said lever adapted to press said friction means against said arm when said lever is depressed thereby to prevent swinging movement of said arm, and an abutment connected to said member and engageable with the upper side of said lever, said abutment being adjustable toward and away from said member for regulating the minimum pressure of said friction means on said arm, said shoulder being disposed intermediate said abutment and said transverse axis.

2,590,253
ADJUSTABLE CHILD'S SEAT
William F. Kelley, Roxbury, Conn.
Application March 24, 1948, Serial No. 16,752
2 Claims. (Cl. 155—88)



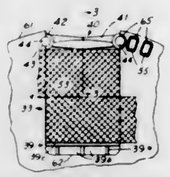
1. In an adjustable seat, a base member, a pair of elongated horizontal support block elements fixed in spaced parallel relationship to the top thereof, a top seat member, and leaf spring clip means attached to the underside of said top seat member and engaged with holding means in the ends of said support block elements for detachably holding said base member and said top seat member interengaged.

2,590,254
PORTABLE SECTIONAL IRONING BOARD
Alpha Perry Lantz, Washington, D. C.
Application January 8, 1947, Serial No. 720,813
5 Claims. (Cl. 38—104)



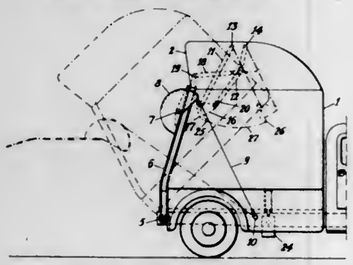
1. A portable ironing board and means for temporarily attaching the same to a supporting article of furniture, comprising a board having side edges reinforced by flanges extending downwardly and inwardly of the board, said inwardly extending flanges being increased in width adjacent one end of the board and having guide parts struck upwardly to the bottom of the board to provide shallow guide chambers beneath said board, hooks for attaching the board to the article of furniture provided with shanks passing through guide openings in the downwardly and inwardly extending reinforcing flanges of the board end, said shanks having portions lying approximately in the same plane as the lower edges of the board enlarged end portions slidably received in said chambers and intermediate portions angularly disposed with reference to the other named portions of the shanks, and latch means carried by the shanks to hold the hooks in adjusted position.

2,590,255
MEANS FOR RETAINING WINDINGS ON ROTORS
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill., a corporation of California
Application May 16, 1950, Serial No. 162,262
8 Claims. (Cl. 171—252)



1. Winding retaining means for a dynamo-electric machine comprising: a rotor, a slot in said rotor having side walls therein, keyways in said side walls, a winding inserted in said slot, a wedge, outwardly facing cups at the lateral edges thereof, said cups being in alignment with said keyways and forming an opening therewith, and a rod inserted in each such opening to key the wedge into firm engagement with the walls to retain said winding in said slot.

2,590,256
DUST CART
Hilding Linde, Kalmar, Sweden
Application March 18, 1949, Serial No. 82,097
In Sweden September 1, 1947
8 Claims. (Cl. 214—67)



1. In a dust cart comprising a collecting container and a swingable device for distribution of the upper layer of the load in the container, said swingable device comprising at least two swingable arms being oscillatorily journalled at their upper ends in bearings located above the proper collecting container and passing through an opening at the top of the collecting container and carrying at their lower ends a load distributing member, and said swingable arms being connected with a mechanism for setting said arms with said distributing member in a motion forwards and backwards.

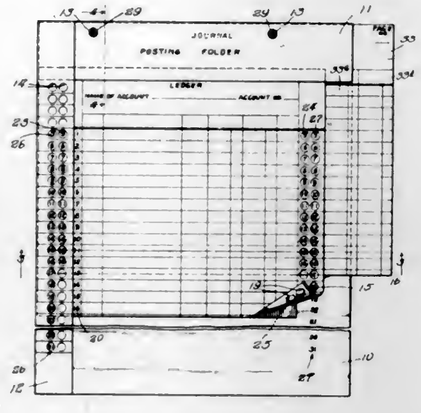
2,590,257
GUANIDINE SYNTHESIS
Johnstone S. Mackay, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application March 31, 1949, Serial No. 84,722
5 Claims. (Cl. 260—564)

1. A process of converting urea to guanidine-containing salt comprising heating urea at a temperature between 190° and 300° C. while in contact with sulfamide.

2,590,258
DENTAL PROTHESIS
Emil Märki, Basel, Switzerland
No Drawing. Application January 10, 1949, Serial No. 70,151. In Switzerland June 17, 1948
4 Claims. (Cl. 32—2)

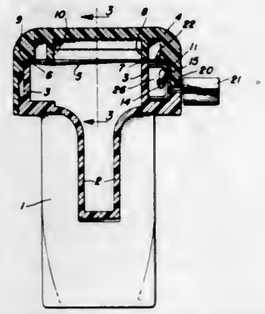
1. In a dental prothesis including artificial teeth, the teeth being embedded in a coherent mass, at least the front face of said mass consisting of synthetic resin, the remaining part of said mass consisting of a material including a polymerized synthetic resin-metal mass, at least a part of said metal consisting of tin-mercury alloy.

2,590,259
BOOKKEEPING DEVICE
William Theodore Maass, Chicago Heights, Ill.
Application March 18, 1950, Serial No. 150,413
8 Claims. (Cl. 282—26)



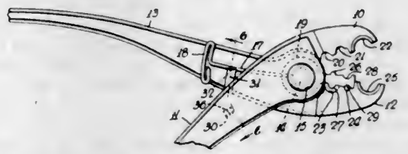
1. A bookkeeping device comprising a first record sheet having a vertical row of spaced holes at each side margin with each lateral pair of holes being located at the ends of a section on said sheet adapted to receive writing and bearing indicia at one end of said section; a second record sheet having similarly spaced sections bearing indicia on each end of said section so that the indicia are visible through said holes when the first sheet is placed over the second sheet to permit alignment of a given section on one sheet with a given section on the other sheet; a holder in which said superposed sheets are held to maintain said alignment, said holder including holding means on at least one margin embracing corresponding portions of said superposed sheets, said holder comprising a heavy paper sheet provided with a top flap overlying a corresponding portion of at least one of said sheets and provided with a plurality of spaced holes, said one sheet bearing contrasting sections appearing through said holes when said sheets are properly aligned in said holder, each of said contrasting sections being of substantially the same size and shape as its corresponding hole, and provided with a side flap overlying a corresponding portion of said sheets and provided with a row of holes spaced similarly to the holes in said first sheet for alignment with said first sheet holes and through which said indicia on said second sheet appear when said sheets are properly aligned and arranged in said holder, said indicia on said first sheet being located beyond said side flap.

2,590,260
STEREOSCOPIC FILM VIEWER
Gifford M. Mast and Wright K. Gannett, Davenport, Iowa, assignors to Tru-Vue Company, Beaverton, Oreg., a copartnership
Application August 24, 1948, Serial No. 46,832
3 Claims. (Cl. 88—31)



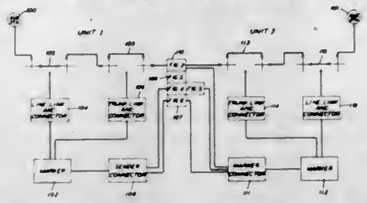
1. A stereoscopic film-viewer, comprising a pair of parallel, spaced-apart viewing tubes, an elongated body and cover for supporting and guiding film to be viewed, said tubes being secured to said body at adjacent ends of said tubes and adjacent to the ends of said body, said cover extending over said body on the side thereof away from said tubes whereby to form a film passage between said cover and body perpendicular to the plane of the axes of the tubes, said body having an elongated recess parallel to said passage and opening toward an edge of a film in said passage, a film-advancing assembly freely received and positioned in said recess, said assembly comprising a channel of a size to fit said recess, a slide positioned within said channel slidable longitudinally thereof, a spring attached to said slide and channel for biasing said slide toward one end of said channel and for allowing manual movement of said slide in the opposite direction, a film-advancing lug carried by said slide, and a spring actuated normally to bias said lug toward a film in said passage for engagement in openings along an edge of said film, said slide having an arm movable therewith extending outwardly from said recess for manual actuation of said slide.

2,590,261
INTERMEDIATE JAW PLIERS
Irving Frederick Matthysse and Henry Peter Dupre, New York, N. Y., assignors to Burndy Engineering Company, Inc., a corporation of New York
Application September 29, 1945, Serial No. 619,326
4 Claims. (Cl. 81—15)



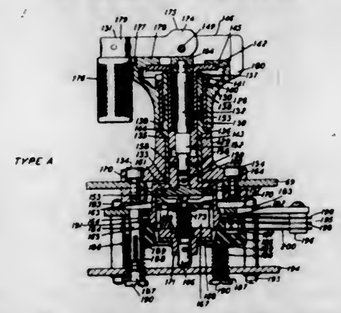
1. A tool having a plurality of pivotally connected main jaw members, each containing a working surface, and each having a handle extending from said jaw members; an intermediate jaw member pivotally mounted on the same axis as said main jaw members and having working surfaces each complementary to a working surface on said main jaw members, said intermediate jaw member terminating in a spring latch; said handles each having a catch for engagement with said spring latch; one of said catches having a camming surface thereon for engaging said spring latch when positioned between the two catches and causing said latch to be cammed into and secured on the catch having said camming surface for predetermining the position of the intermediate jaw member when the handles are pressed towards each other, and the spring latch is positioned between the two catches.

2,590,262
TRUNK FRAME DESIGNATION TRANSFER
Roderick K. McAlpine, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 9, 1950, Serial No. 194,830
9 Claims. (Cl. 179—18)



1. In a telephone system, means for transmitting designations comprising three conductors, means for marking said conductors with battery or ground in a code representing one of said designations, primary test means for testing said conductors for one of said markings, secondary test means for testing said conductors for the other of said markings, means under the control of said primary test means to connect certain of said conductors to said secondary test means, a register and means under the control of said primary test means and said secondary test means to operate said register in accordance with a different code also representing said designation.

2,590,263
ELECTRICAL CONTROL APPARATUS
Edward D. Mead, Caldwell, N. J., and Orwar S. A. Mesch St. Albans, N. Y., assignors to Bell Telephone Laboratories Incorporated, New York, N. Y., a corporation of New York
Application February 13, 1945, Serial No. 577,632
3 Claims. (Cl. 74—548)



1. An electrical control device comprising a fixed body, a bearing supported in said body, a control knob rotatably supported on said bearing, a bushing rotatably supported in said bearing and secured to said control knob, a rotatable shaft extending through said bushing and in rotatable driving connection with said bushing, a

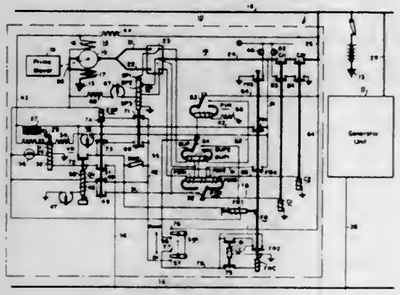
return spring for said shaft, a driving connection between said shaft and said bushing, said shaft being operable longitudinally within said bushing and against the action of said spring and a crank supported in said control knob and operable to longitudinally move said shaft in said bushing.

2,590,264
SLEEVE TYPE FASTENING DEVICE FOR RESILIENT PLASTIC ARTICLES AND THE LIKE
George L. Meyers, Willoughby, and John C. Shutt, Wickliffe, Ohio, assignors, by mesne assignments, to The Ohio Rubber Company, Willoughby, Ohio, a corporation of Delaware
Application August 24, 1946, Serial No. 692,780
10 Claims. (Cl. 24—213)



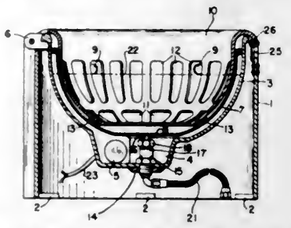
1. A fastening device comprising a stud of material resiliently deformable upon stretching, and a tubular sleeve adapted to fit over said stud when the latter is longitudinally stretched and its cross-sectional area thereby reduced, said sleeve having an inturned annular flange at one end adapted to grip and constrict said stud when in normal, unstretched, state and being additionally formed with a rebent, inwardly directed prong adjacent its other end adapted to engage the surface of a supporting member with said stud protruding therethrough.

2,590,265
CONTROL AND PROTECTION OF ELECTRIC POWER SYSTEM
John D. Miner, Jr., Bascum O. Austin, and Ralph D. Jessee, Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 12, 1950, Serial No. 179,055
19 Claims. (Cl. 171—119)



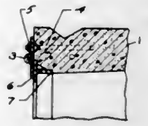
1. In a control system for a plurality of generators each having a field winding and supplying a load bus, in combination, switching means for connecting the generators to the load bus for parallel operation, a voltage regulator for each generator, a paralleling coil on each regulator, equalizer relays for controlling the interconnecting of the paralleling coils, field relays connected to control the energization of the field windings and to control energizing circuits for effecting operation of the switching means for the generators, voltage relays responsive to the generator voltages for controlling the operation of the field relays, and a reverse current relay for each generator cooperating with the equalizer relay for that generator to control the energization of the voltage relay for that generator.

2,590,266
HOG WATERER
Carroll H. Nelson, Cedar Rapids, Iowa
Application December 12, 1949, Serial No. 132,542
6 Claims. (Cl. 119—81)



1. A stock waterer, including a housing, a reservoir removably mounted in said housing, a floatable removable bowl or water container mounted in said reservoir and having lateral openings near its upper edge, and a bowl-shaped grid removably seatable in the bowl having a flange extending over the upper edges of the reservoir and bowl, said flange extending downwardly to seat upon the upper edge of the housing and a hinge uniting both the grid and the reservoir to the housing.

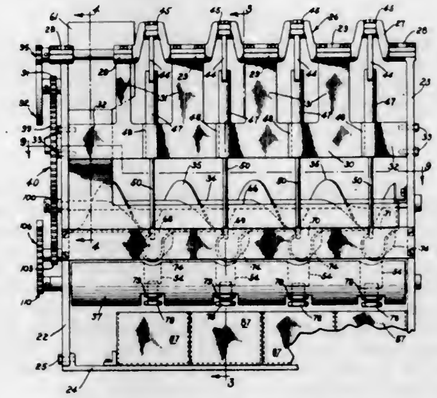
2,590,267
CONCRETE WINDOW FRAME AND SASH
Charles H. Nissen, Fairview Township, Erie County, Pa., assignor of two-thirds to Walter I. Nissen and Harley H. Nissen, Fairview Township, Erie County, Pa.
Application August 16, 1946, Serial No. 691,029
1 Claim. (Cl. 72—99)



In a window construction, in combination, a rectangular frame including upper and lower, spaced, parallel, horizontally extending members and a pair of spaced, parallel, vertically extending concrete side members, all of said members being integrally cast and forming a unitary structure, said structure including an outer and an inner face and external and internal peripheral surfaces, the outer face of all of said members having a marginal seating surface, said marginal seating surface being situated adjacent the internal peripheral surfaces of the members of the structure, a second seating surface at right angles to and offset laterally inwardly from said marginal seating surface and spaced inwardly therefrom on the inner peripheral top and sides of said concrete frame, a transverse marginal beveled surface directed inwardly from said marginal seating surface and connecting said marginal seating surface and said inner seating surface on the top and sides of said concrete frame, a metal rectangular frame having a T-shaped cross section comprising a crosspiece and an inwardly extending flange, one side of the crosspiece of said T-shaped cross section of

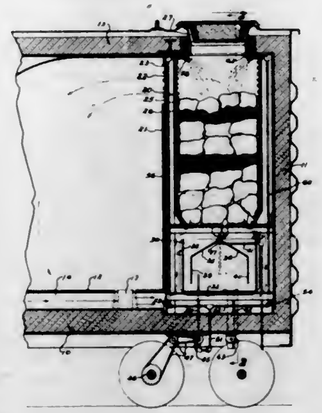
said metal frame sealingly engaging said marginal seating surface and said inwardly projecting flange on said T-shaped cross section of said metal frame sealingly engaging said inner seating surface at right angles to said marginal seating surface, a closed marginal chamber being defined between the inwardly directed flange of said T-shaped cross section of said metal frame and the transverse marginal beveled surface of said concrete frame, hinged means hinging said metal frame on said concrete frame, and means securing said metal frame in engagement with the above mentioned seating surfaces on said concrete frame.

2,590,268
OLIVE PITTER
Michele C. Pastore, Visalia, Calif.
Application August 6, 1949, Serial No. 108,886
7 Claims. (Cl. 146—27)



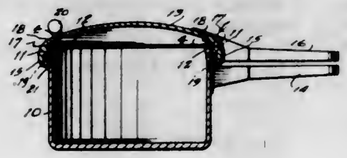
1. An olive pitting and sorting machine comprising a frame, a crank shaft mounted for horizontal rotational movement in the frame, a plurality of guides mounted in the frame below the crank shaft, pitting punches slideably mounted in the guides and operatively connected to the crank shaft for vertical reciprocating movement in the guides, a horizontal elongated trough supported in the frame, said trough having a series of openings formed in alignment longitudinally of the bottom thereof of progressively increased diameter, a screw conveyor rotatably mounted in the trough to feed olives longitudinally thereof successively over the openings of increased diameter, chutes mounted in the frame in registry with the openings and having downwardly extended open end portions, a roller having longitudinally aligned compartments formed therein rotatably mounted for periodic registry of the compartments with the lower ends of the chutes, the pitting punches being aligned with the compartments when said compartments are aligned with their respective chutes, hollow cylindrical pitting knives coaxially disposed in each of said compartments, and drive means periodically rotating the roller to discharge olives deposited therein and to return the compartments to chute alignment, the screw conveyor to feed olives along the trough for deposit through an opening of appropriate size into a chute and thence into a compartment while the compartments are aligned with the chutes, and periodically to rotate the crank shaft to drive the pitting punches downwardly into the olives in the compartments to eject pits through the pitting knives thereof and subsequently to retract the pitting punches for rotor rotation.

2,590,269
APPARATUS FOR WATER ICE REFRIGERATION
Robert D. Pike, Greenwich, Conn.
Application November 16, 1948, Serial No. 60,263
1 Claim. (Cl. 62—133)



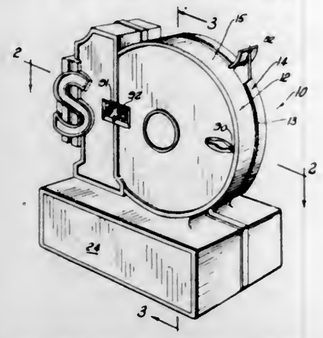
In a refrigerating apparatus, an ice bunker for receiving ice and salt; a brine collecting tank directly beneath the bunker and arranged to receive brine from the bunker; a sloping baffle at the top of the tank for collecting solids dropping from the bunker; a pump and liquid distributing system for pumping brine from the tank and discharging the same into the upper part of the bunker; and air impelling means for forcing a circulation of air vertically through the bunker.

2,590,270
COOKING VESSEL
Robert J. Pratt, Fort Worth, Tex., assignor of fifty per cent to Josephine Cocke, Fort Worth, Tex.
Application April 18, 1947, Serial No. 742,383
4 Claims. (Cl. 220—40)



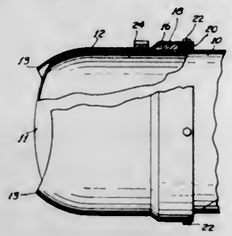
1. In a cooking vessel, in combination with a cover for said vessel having a depending flange, a plurality of spaced tortuous channels formed internally of said flange, each of said channels having a portion extending from the rim of said flange upwardly thereof and then at right angles thereto, thence upwardly to communicate, intermediate its ends, with a portion of said channel extending circumferentially of said flange, a plurality of pins arranged integrally of the upper outer rim of said vessel capable of engagement with said channels providing a detachable association between said cover and said vessel, whereby to lock said cover in sealed position on said vessel and secure the same in unsealed position with respect to said vessel.

2,590,271
TOY BANK
Arthur Pudark and Herman Rapaport, Chicago, Ill., assignors to Rapaport Brothers, Inc., Chicago, Ill., a corporation of Illinois
Application April 24, 1948, Serial No. 23,078
2 Claims. (Cl. 235—100)



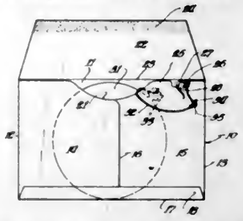
1. In a registering toy bank, a shaft rotatable about a horizontal axis, a counter gear wheel rotatable coaxially of said shaft, a disc rotatable on said shaft and having on one face thereof a lug engageable with the teeth of said wheel and having on the other face thereof a plurality of lugs projecting laterally, a lever pivoted on said shaft and rockable about the axis of said shaft, said lever having a coin carrying member open at one end thereof and arranged to support a coin in any position of movement in a plane disposed substantially radially of the axis of said shaft, an actuator pivotally mounted on said lever and normally biased in the direction of said carrying member, said actuator comprising a lever arranged to be actuated by a coin to assume a position correlated to the size characteristics of the coin in the carrying member and having on abutment serving to engage one of said lugs on said disc and to rotate the same when said lever is actuated.

2,590,272
ADJUSTABLE JET ORIFICE
John A. Robertson, Albuquerque, N. Mex., and Edward A. Rock, Mercer Island, Wash., assignors to Boeing Airplane Company, Seattle, Wash., a corporation of Delaware
Application June 21, 1948, Serial No. 34,228
6 Claims. (Cl. 60—35.55)



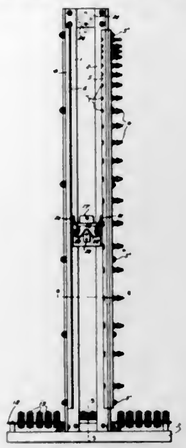
1. An adjustable jet orifice for an aircraft jet engine, comprising a pair of generally cylindrical end-opening tubular jet-discharge members, one closely encircling the other, said members having approximately coterminous discharge end portions which gradually taper in diameter toward their terminal edges, the terminal edge of each such member defining a central discharge opening therein of noncircular form generally aligned longitudinally with that of the other member to define thereby a common gas exit, said members being relatively rotatable about their common longitudinal axis, and each such member having a terminal edge rim portion which in one relatively rotated position of the members partly overlaps, hence restricts, the discharge opening of the other member and thereby restricts the common exit opening, but in a different relatively rotated position of the members generally coincides with the corresponding rim portion of the other member, and thereby increases the common exit opening.

2,590,273
ENVELOPE WITH HANGER SUPPORT
Seymour Robins, New York, N. Y.
Application May 15, 1950, Serial No. 162,095
4 Claims. (Cl. 229—68)



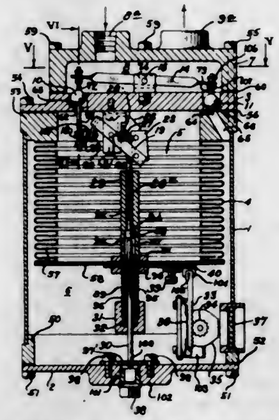
1. As an article of manufacture, a paper mailing envelope having a front panel, a closure flap and a crease between the said panel and closure flap forming a hinge for said flap; together with a hanger supporting tab positioned immediately under said flap and having its free end projecting substantially to the crease between the flap and the front panel of the envelope, so that the flap, when closed and sealed in position, will closely overlie the end of said tab to secure a hanger in position thereon.

2,590,274
BLASTING SWITCH
Terrence A. Rourke, Joliette, Quebec, Canada, assignor to Gypsum, Lime and Alabastine, Canada, Limited, Toronto, Ontario, Canada, a corporation of Canada
Application January 16, 1950, Serial No. 138,726
2 Claims. (Cl. 200—16)



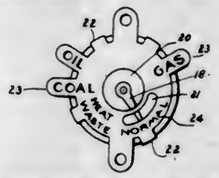
1. A multiple firing blasting switch comprising a base, an upright frame mounted on the base and having a pair of vertically disposed guide surfaces thereon, a weighted slide between and engaging said guide surfaces, said surfaces exerting substantially no pressure on said slide and said slide being freely slidable thereon under the influence of gravity, a pair of electrically connected contact arms mounted on the slide, a strip of nonconducting material fixed to the frame adjacent each of said guide surfaces, a vertically disposed contact rod mounted in one of said strips and in continuous engagement with one of said contact arms, a plurality of vertically aligned spaced contacts mounted in the other of said strips and successively engageable by the other contact arm during sliding movement of the slide, and a fusible link for holding said slide at the upper end of said guide surfaces, said aligned contacts being spaced from each other a distance which increases gradually from the first to the last contact to compensate for the increasing momentum of said slide in its sliding movement.

2,590,275
FLUID METER
Frank A. Ryder, Chicago, Ill., and Milton H. Weeks, deceased, late of Oakland, Calif., by Fern Weeks, administratrix, Oakland, Calif.
Application March 24, 1945, Serial No. 584,670
8 Claims. (Cl. 73—270)



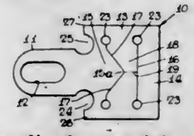
1. A fluid measuring device, comprising a housing, a bellows mounted therein so as to divide said housing into a chamber within and a chamber externally of said bellows, a fluid inlet, a fluid outlet, valve means having alternate positions, said valve means in one position connecting said inlet with the chamber within said bellows and said outlet with the chamber externally of said bellows and in the other position connecting said inlet with the chamber externally of said bellows and the outlet with the chamber within said bellows, a counter within said housing, means connecting said bellows with said counter to actuate said counter by movement of said bellows, comprising a positive driving connection between said counter and said bellows including a member mounted on said bellows and adjustable relative thereto and a member pivoted on said adjustable member and engaging said counter to drive the same, and means for alternating the position of said valve means, comprising a member actuated by said bellows, snap action mechanism connected with said last mentioned member, and valve operating members connecting said snap action mechanism with said valve means.

2,590,276
FURNACE THERMOMETER
Gerald L. Schwarz, Cleveland Heights, Ohio
Application December 21, 1949, Serial No. 134,320
4 Claims. (Cl. 73—367)



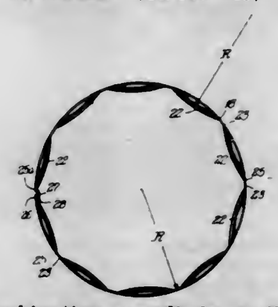
1. In a thermometer of the type wherein a movable indicator registers the temperature on a dial, the combination with said thermometer of a movable indexing plate, adapted to be mounted over said dial and provided with a slot permitting the position of said temperature indicator to be observed, said dial being provided with a marginal notch and the periphery of said indexing plate being provided with arms adapted to be selectively seated in said dial notch, for the purposes described.

2,590,277
SUPPORTING CLIP
Sergius Skok, St. Albans, N. Y., assignor to Burndy Engineering Company, Inc., a corporation of New York
Application July 8, 1946, Serial No. 682,014
1 Claim. (Cl. 248—50)



A supporting clip for receiving a rod-like end thereto made from a single piece of sheet material having a tubularly formed body, and a terminal attaching means, said tubular body having a plurality of transversely extending strap sections forming one side of the tubular body, and an intermediate transversely extending strap section forming the other side, one of the straps forming said one side having a projection extending from a transverse edge toward the other strap, said intermediate strap having a recess substantially complementary with said projection:

2,590,278
OIL CHECK FOR PISTON RINGS
Stanley S. Slyk, Chicago, Ill.
Application February 18, 1946, Serial No. 648,413
19 Claims. (Cl. 309—45)



2. In combination, a cylinder wall, a piston therein, said piston having an annular groove, a

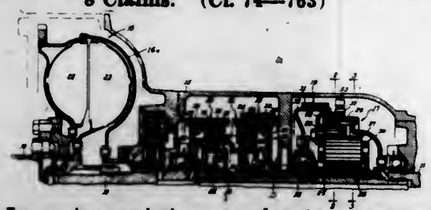
piston ring in said groove, an annular oil check located in the annular space between the circumferential wall of said groove and the adjacent side of said piston ring, said oil check being resilient and having a biased overall dimension axially of said piston such that it will fit readily into said groove, said oil check having an approximately cylindrical portion adapted to engage the adjacent side of said piston ring and the adjacent side of said groove, said oil check having portions offset relative to said cylindrical portion, parts at least of said offset portions being inclined relative to the axis of said piston, said oil check being expansible into firm engagement with the top and bottom walls of said groove when pressure is exerted radially upon said oil check between said circumferential wall and said piston, said oil check being split in its perimeter, the ends of said oil check providing a lap joint.

2,590,279
BUBBLING LIQUID TOY
Mark Soss, Spokane, Wash.
Application June 4, 1951, Serial No. 229,733
3 Claims. (Cl. 272—8)



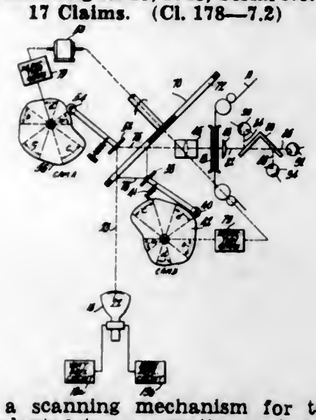
1. A toy comprising a transparent tube, a volatile liquid, means for maintaining said liquid at a level in the tube, an image within the tube and adapted to float upon said liquid, a heater for causing the liquid to bubble, whereby said image is caused to bob, and means for heating said heater.

2,590,280
TRANSMISSION
Clifford L. Swift, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application January 6, 1949, Serial No. 69,518
8 Claims. (Cl. 74—763)



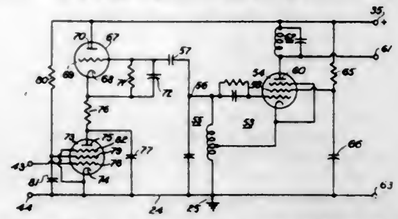
1. In a transmission, a planetary gear set comprising a ring gear, a sun gear, a first planet gear in mesh with said sun gear, a second planet gear in mesh with said ring gear and with said first planet gear, a second sun gear, a third planet gear in mesh with said first planet gear and with said second sun gear, a carrier for said planet gears, and means for causing a selected one of the gears of said planetary gear set to serve as a reaction member.

2,590,281
TELEVISION FILM SCANNER
George C. Sziklai and Alda V. Bedford, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application August 13, 1948, Serial No. 43,986
17 Claims. (Cl. 178—7.2)



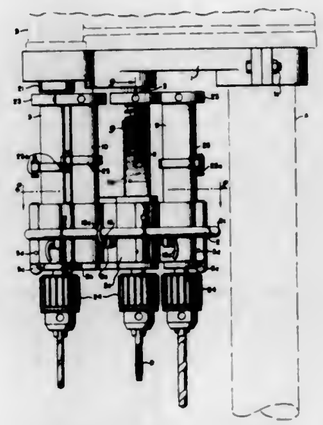
17. In a scanning mechanism for television systems adapted to scan motion picture film by a light emitting line type scanning raster, the combination of, means for continuously driving a motion picture film along means for defining a scanning surface, a plurality of optical paths for accepting, transmitting and directing image rays from the scanning raster to a focussed position on said scanning surface, ray diverting means in each optical path for independently and controllably establishing the exact position of the focused raster image on said scanning surface as transmitted by that path, shuttering means for successively blocking each optical path for adjacent time intervals of predetermined durations such that only one optical path at any given instant is active to produce a raster image on said scanning surface, means for controlling said ray diverting means, and synchronizing means for holding the action of said ray diverting control means and the action of said shuttering means in a predetermined timing relation whereby each optical path is blocked by said shuttering means during alteration of said ray diverting means by said control means.

2,590,282
VARIABLE IMPEDANCE DEVICE
Moody C. Thompson, Jr., Washington, D. C., assignor to Stromberg-Carlson Company, a corporation of New York
Application November 8, 1947, Serial No. 784,807
3 Claims. (Cl. 250—36)



3. An oscillation generator comprising a resonant circuit associated with first electron discharge means to form a high-frequency oscillator; a source of frequency-control voltage; second electron discharge means connected effectively in shunt with said resonant circuit and controllable to alter the resonant frequency of said generator; and third electron discharge means connected effectively in series with said second electron discharge means, whereby said third electron discharge means is adapted to control the current flowing in said second electron discharge means in response to changes in said frequency-control voltage.

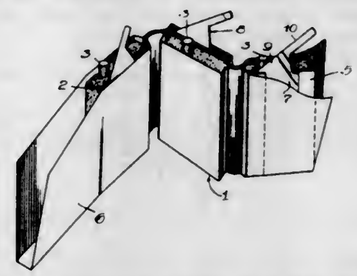
2,590,283
MULTIPLE SPINDLE DRILL APPARATUS
John L. Weaver, Encinitas, Calif.
Application May 28, 1945, Serial No. 596,167
9 Claims. (Cl. 29—26)



1. In a multiple spindle drilling apparatus of the class described, the combination of a drill press having a vertical head supporting post and a spindle, a connecting frame member secured to said vertical head supporting post, and having a spindle frame shaft extending vertically therefrom at one side of the spindle axis of said drill press, said connecting frame member provided with a bore surrounding the spindle bearing housing of said drill press, and a spindle supporting frame secured on said spindle frame shaft having a plurality of radially disposed spindle bearing bosses, a plurality of shiftable spindle shafts reciprocally mounted in said bearing bosses having clutch means on the upper ends thereof, and clutch means on the spindle of said drill press individually engageable with each of said clutch means on each of said spindle shafts.

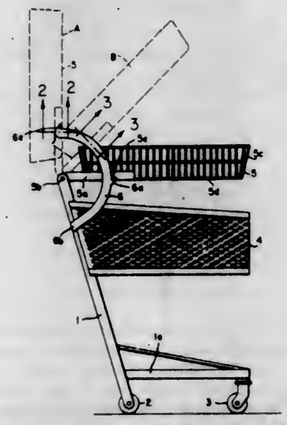
2,590,284
ELECTRIC TERMINAL FOR DRY BATTERIES
Milton E. Wilke, Freeport, Ill., assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill., a corporation of Delaware
Original application February 5, 1948, Serial No. 6,425. Divided and this application May 17, 1948, Serial No. 27,508
4 Claims. (Cl. 136—135)

1. An electrode terminal for a dry cell comprising a metallic plate having a lug integral therewith and projecting from one edge at one side of the middle thereof, said lug comprising a relatively broad base portion and a narrower elongated extremity extending sidewise as well of said plate, the width of said extremity being as outwardly from said base portion in the plane



least at the juncture thereof with said base portion, said lug being flexible at said juncture.

2,590,285
NESTING MARKETING CARRIER
James D. Wiltshire, Hemet, Calif.
Application August 26, 1949, Serial No. 112,602
3 Claims. (Cl. 280—50)

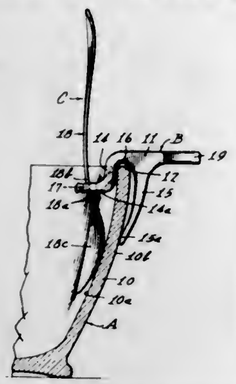


1. In a nesting marketing carrier, a frame, caster wheels supporting said frame, a stationary basket, and a pivoted basket arranged in superimposed relationship to said stationary basket, and pivotal out of superimposed relationship with said stationary basket, whereby said stationary basket is accessible from the upper side thereof, arcuate brackets at opposite sides of said pivoted basket, stop means thereon and detent means on said brackets and connectible with said pivoted basket for maintaining said pivoted basket in elevated position relative to said stationary basket.

2,590,286
SPOON HOLDER
Carl A. Wirtanen and Edith R. Wirtanen, Mount Hamilton, Calif.
Application November 9, 1948, Serial No. 59,148
3 Claims. (Cl. 65—65)

1. A spoon-holder comprising: a bar made to be mounted across the rim of a bowl, or the like; a pair of spaced-apart lugs depending from the bar to define a recess therebetween for receiving the wall of the bowl, with one of the lugs bearing against the interior surface of the bowl wall and the other lug bearing against the exterior surface of the bowl wall; the interiorly-disposed lug having an extension projecting forwardly and sub-

stantially horizontally therefrom; the extension having a notch therein to receive a spoon handle;



the bar including a handle extending outwardly beyond the exteriorly-disposed lug.

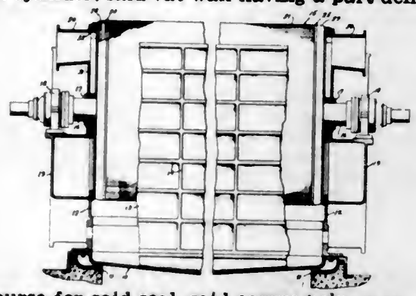
2,590,287
SHAFT COUPLING
Harlin A. Breisford, Haddon Heights, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 26, 1948, Serial No. 17,270
2 Claims. (Cl. 74—63)



1. In combination, a driving shaft and a driven shaft mounted for non-synchronous rotation about a common axis, a rocker arm mounted for tiltable movement upon and for rotation with said driving shaft, a radially extending cam follower on said rocker arm, a stationary undulate cam surface surrounding said axis and upon which said cam follower is adapted to travel with an undulate movement upon rotation of said driving shaft, and coupling means connected between said rocker arm and said driven shaft for translating said undulate movement into non-synchronous rotary movement of said driven shaft with respect to said driving shaft, said coupling means comprising an arm inclined at an angle with respect to said axis and pivotally connected at its opposite ends to said rocker arm and said driven shaft, respectively.

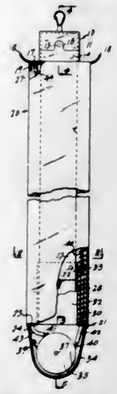
2,590,288
CYLINDER TYPE PAPER MACHINE
Roy H. Breyfogle and Robert F. Hollis, Alton, Ill., assignors to Alton Box Board Company, Alton, Ill., a corporation of Delaware
Application April 19, 1947, Serial No. 742,708
7 Claims. (Cl. 92—43)

1. In a cylinder type paper machine having a stock vat including oppositely disposed walls, and a cylinder rotatable in said vat with the ends of said cylinder being adjacent opposite walls of said vat, apparatus for sealing off the space between an end of said cylinder and a wall of said vat comprising an annular rubber-like seal compressed between the vat wall and the cylinder end, said seal being attached to and rotatable with said cylinder, said vat wall having a part defining



a course for said seal, said course being non-uniformly spaced from said cylinder end.

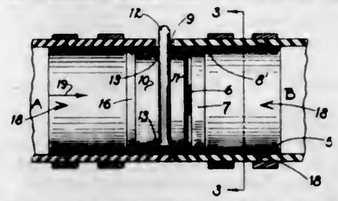
2,590,289
RAZORSTROP GUARD
Dale W. Chamberlain, Oakland, Calif.
Application December 18, 1950, Serial No. 201,460
9 Claims. (Cl. 51—200)



1. A guard for a razor strop comprising a head to which the upper end of the strop is secured, a base to which the lower end of the strop is secured, a sliding member slidable on said strop, a flexible sleeve encompassing said strop and having its respective ends secured to said sliding member and said base, and means for supporting said sliding member in contact with said head to envelop the strop throughout its length by said sleeve, said sliding member with said sleeve being manually retractable to clear the strop for stropping a razor at will; said sliding member and said base having outwardly projecting shoulders, and compression springs cooperating between the shoulder on said base and on said sliding member and located on opposite sides of said strop, to return said sliding member to contact with said head and complete enclosure of the strop within said sleeve when the sliding member is manually released following withdrawal.

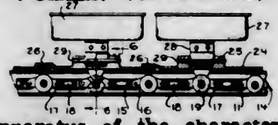
2,590,290
VALVE FOR FLEXIBLE HOSE
Leon Allen Chase, Denver, Colo.
Application November 30, 1945, Serial No. 631,813
9 Claims. (Cl. 251—84)

1. A valve for use between two sections of garden hose or the like, comprising a tube of a diameter to fit the inside of the hose sections, a transverse partition wall rigidly secured to the inner wall surface of the tube dividing its interior into two substantially equal parts, said transverse wall having a plurality of openings arranged symmetrically about the center, the maximum dimension of the openings in a direction perpendicular to a bisecting radius of the openings being less than the corresponding distance between adjacent openings, the wall of the tube having a slot extending in a transverse plane, a cup-shaped valve member positioned in the tube, the bottom of the cup being positioned in contact with the stationary transverse



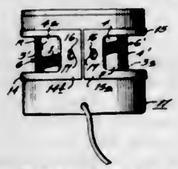
wall and provided with openings positioned to be brought into register with the openings in the transverse wall in one relative rotary position, and a handle secured to the cup-shaped valve member passing through the slot into position to be engaged for turning the cup valve to bring the openings into and out of register, the construction and arrangement of parts being such that when the openings are out of register, flow of liquid through the valve is shut off completely.

2,590,291
CONVEYER HAVING PIVOTAL PAN
Edward J. Albright, Chicago, Ill.
Application January 22, 1949, Serial No. 72,102
7 Claims. (Cl. 198—148)



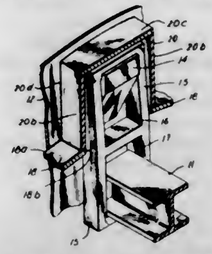
2. An apparatus of the character described comprising, in combination, an endless track substantially U-shaped in section, an endless conveyor chain in said track, said conveyor chain including substantially rectangular plates overlying said track and overlapped at their ends, a hinge element on each plate, a plurality of pans carried by said conveyor, and a complemental hinge element on each pan adjacent one end for hingedly connecting the pans one to each plate, and means coextensive with a substantial portion of the endless track to support the other ends of the pans while they are carried along said track portion.

2,590,292
SHIELDED MAGNETIC SOUND-HEAD AND TAPE-GUIDE ASSEMBLY
Leslie J. Anderson, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 1, 1949, Serial No. 124,894
5 Claims. (Cl. 179—100.2)



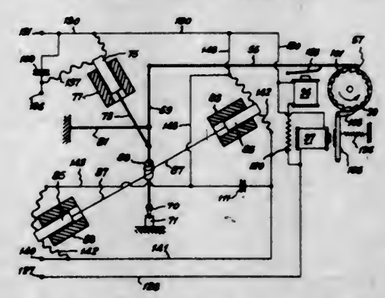
1. A sound-head assembly for a magnetic-tape record, said assembly comprising a magnetic structure containing a non-magnetic gap over which said record travels during recording or reproducing intervals, a housing in which said magnetic structure is mounted, said housing containing an opening through which said tape passes in approaching and leaving said non-magnetic gap, and guide means supported on and for angular adjustment with respect to said housing adjacent to said opening for presenting said tape to said non-magnetic gap at a desired angle.

2,590,293
SEALING DEVICE FOR REGENERATOR APPARATUS
John L. Armstrong, Houston, Tex., assignor to Eastern States Petroleum Co., Inc., Houston, Tex., a corporation of Texas
Application November 25, 1949, Serial No. 129,275
7 Claims. (Cl. 23—288)



1. The combination with a vessel having a metallic outer wall and a refarctory inner wall and also having a hanger assembly mounted on the inner surface of said outer wall with a portion thereof exposed through the refractory inner wall to the interior of the vessel, whereby one end of a transverse member may be supported by said hanger, of an annular seal ring secured to the inner surface of the metallic outer wall at a point intermediate the top and bottom of the hanger assembly, said ring having an opening therein through which the hanger assembly extends, and a box-like sealing enclosure resting upon the seal ring and secured thereto and encompassing the upper portion of the hanger assembly.

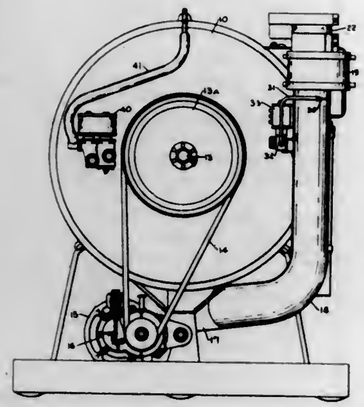
2,590,294
TELEGRAPHIC FACSIMILE RECORDER
Edward Thomas Both, Cremorne, near Sydney, New South Wales, Australia, assignor to Automatic Totalisators Limited, Meadowbank, near Sydney, New South Wales, Australia, a company of New South Wales, Australia
Application April 28, 1949, Serial No. 90,166
In Australia May 26, 1948
5 Claims. (Cl. 178—18)



1. In a facsimile recording system including, at a transmitting station, a pair of parallel-

connected potentiometers arranged and adapted to convert relative horizontal and vertical components of motion of a pen into equivalent voltage variations, and, at a receiving station, a plurality of moving-coil solenoids arranged and adapted to drive a reproducing pen in relative horizontal and vertical directions in response to differential energisation of said solenoids by said voltage variations; the construction wherein said reproducing pen comprises a tubular writer arm and a support rod therefor, one end of said writer arm being provided with a downwardly directed ink delivery nozzle, means for connecting the other end of said writer arm to an ink reservoir, means at said other end of said writer arm for pivotally connecting the latter to the upper end of said support rod, and means for universally, pivotally supporting the lower end of said support rod.

2,590,295
CLOTHES DRIER
Arthur R. Constantine, South Bend, Ind., assignor, by mesne assignments, to Avco Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application January 23, 1948, Serial No. 3,999
1 Claim. (Cl. 34—75)



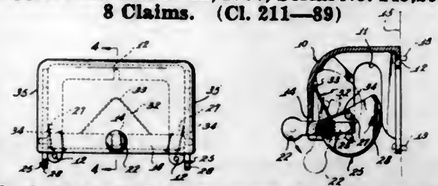
In a dryer, the combination of a chamber including a cylindrical tub and a rotatable perforate inner clothes tumbling member, said tub having an outlet near the bottom thereof, a conduit communicating with said outlet and having a substantially vertical and elongated cylindrical portion extending outside of said tub from said outlet to a position adjacent the top portion of said tub, water inlet means positioned at said top portion to inject water tangentially onto the inner surface of said vertical portion, a transverse conduit interconnected with said top portion, a heating chamber in said transverse conduit communicating with the interior of said tub and the top of said vertical portion, and air circulating means located between said top portion and said transverse conduit, said circulating means circulating air from said tub outlet through said vertical portion and said heating chamber and thence back into said tub, whereby moisture may be condensed from and lint may be collected from air circulating in said vertical portion of said conduit by contact with the water cooled inner surface thereof.

2,590,296
PHOTOGRAPHIC MULTILAYER STRIPPING FILM
Jack Howard Coote, London, and William Harry Gathercole, Worcester Park, Surrey, England, assignors to Dufay-Chromex Limited, London, England, a British company
Application September 11, 1948, Serial No. 48,928
In Great Britain September 9, 1947
5 Claims. (Cl. 95—2)



1. A multi-layer stripping material comprising a support carrying upon one side thereof three silver halide emulsion layers, each silver halide emulsion layer being separated from the adjoining one by a layer comprising a copolymer of sodium methacrylate and methyl methacrylate the copolymer layer separating the outermost silver halide emulsion layer from the second silver halide emulsion layer containing about 11.5% by weight of sodium methacrylate in the copolymer and the copolymer layer separating the second and third silver halide emulsion layers containing about 10% by weight of sodium methacrylate in the copolymer, the remaining constituent of each copolymer being methyl methacrylate.

2,590,297
GARMENT HANGING FIXTURE
Alfred A. Curtis, II, Glendale, Calif.
Application March 11, 1950, Serial No. 149,201
8 Claims. (Cl. 211—89)

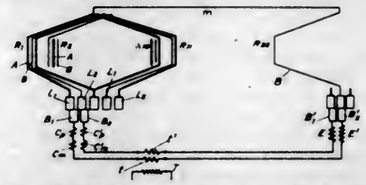


3. A garment hanger comprising in combination: a frame having means to attach the same to a vertical surface and having a pair of horizontally spaced, fixed abutments formed therein; a pair of eccentric cams each having a jaw portion and each mounted in said frame adjacent one of said abutments for rotation about a horizontal axis to move the jaw portion of said cam toward and away from said adjacent abutment; a torsion spring connected to said frame and each of said cams to urge rotation of the latter in a direction to move said jaw portion thereof against said abutment to grip material between said cams and abutments; and an operating member pivotally supported in said frame, said operating member having operative connection with said cams to effect concurrent rotation thereof away from said abutments to release material gripped as aforesaid.

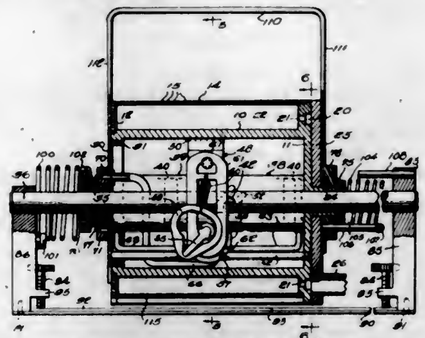
2,590,298
WINDING IN COLLECTOR MACHINE
Jean Delastre, Louis Galxin, and Pierre Letrilliart, Jeumont, France, assignors to Societe Anonyme Dite: Forges & Ateliers De Constructions Electriques De Jeumont, Paris, France
Application January 18, 1949, Serial No. 71,514
In France January 21, 1948
13 Claims. (Cl. 171—228)

1. In a collector machine having $4p$ poles, means for improving the half-turn commuta-

tion, comprising a combination of multiple rotor windings with an odd number of slots per double pole pitch, an odd number of sections per slot, a shortened winding pitch with equipotential connections interposed between conductors occupying the same positions in the slots which are themselves located in the same way with respect to the magnetic field, whereby a complete electric and magnetic symmetry of the windings is obtained.

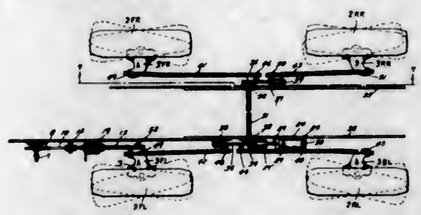


2,590,299
APPARATUS FOR REMOVING HUMAN SKIN FOR GRAFTING PURPOSES
Beverly Douglas, Nashville, Tenn.
Application September 20, 1948, Serial No. 50,096
16 Claims. (Cl. 128—305)



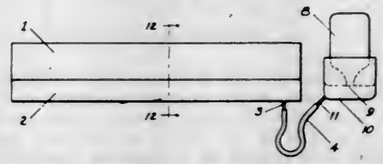
3. A device for severing skin for grafting purposes, comprising a blade mounted for endwise movement, a reciprocating motor connected to said blade to reciprocate it endwise to advance it in cutting relation beneath a skin area to be removed, and vacuum means adjacent said blade for picking up and holding the skin as it is progressively severed by said blade, said vacuum means comprising a housing in which said motor is arranged.

2,590,300
VEHICLE STEERING MECHANISM
Victor I. Dudley, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 6, 1948, Serial No. 58,713
22 Claims. (Cl. 280—91)



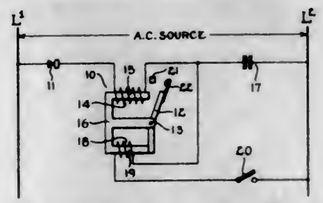
2. Steering mechanism for a vehicle having front and rear sets of steerable wheels each having a steering arm connected thereto, comprising a transverse shaft carrying gear sectors at the opposite sides of the longitudinal center line of the vehicle, gear sectors pivotally supported, on axes offset from the axis of said shaft, at the opposite sides of the longitudinal center line of said vehicle and meshing with said first mentioned gear sectors, means for effecting swinging of one of said gear sectors upon its axis, and rods each connecting the steering arm of one wheel to a gear sector, each of said rods connected with but one steering arm and but one gear sector and each pivotally connected to its associated gear sector at a point offset from the axis of pivotal support of the latter.

2,590,301
HUMIDIFYING BLANKET
Samuel B. Ellis, Long Island City, N. Y.
Application June 22, 1949, Serial No. 100,661
4 Claims. (Cl. 299—20)



1. In a humidifying device, a sheet of pliable water absorbent material, said absorbent sheet having attached across its bottom portion a pliable water retaining cover forming a narrow channel for holding water in contact with the sheet, said channel being supplied with water through a fitting on said cover, the complete unit being flaccidly subject to bending, folding, or winding into various shapes.

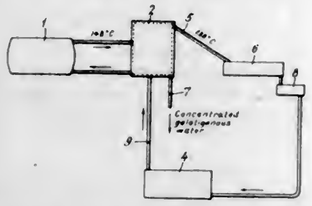
2,590,302
ELECTROMAGNETIC TIMING RELAY
Clarence T. Evans, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application May 12, 1950, Serial No. 161,687
5 Claims. (Cl. 175—320)



1. In a timing system, a relay comprising an oscillatable armature normally biased to an open position, a closing direct current electromagnet and a lockout direct current electromagnet acting upon and tending to move said armature in opposite directions respectively, said electromagnets being so constructed and calibrated that for equal currents in the winding of each of them the operating effect of said closing electromagnet upon said armature exceeds the effect of said lockout electromagnet, a capacitor electrically connected in series with the winding of said closing electromagnet for connection therewith across a source of direct current supply to maintain said capacitor normally fully charged, and means in circuit with the winding of said lockout electromagnet including a switch operable to connect the latter winding in shunt

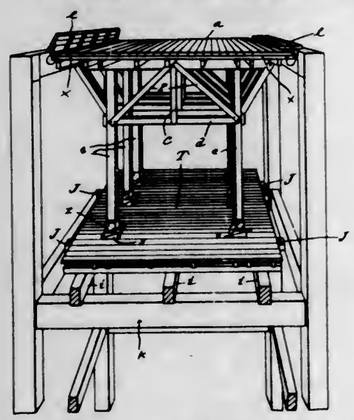
with said capacitor whereby said capacitor will discharge through said lockout winding and both of said windings will be connected in series.

2,590,303
PROCESS FOR THE MANUFACTURE OF OIL AND FOOD PRODUCTS FROM HERRING, WHALES, AND OTHER SEA ANIMALS
Morten Fladmark, Oslo, Norway
Application June 1, 1951, Serial No. 229,382
In Norway October 9, 1943
4 Claims. (Cl. 99—2)



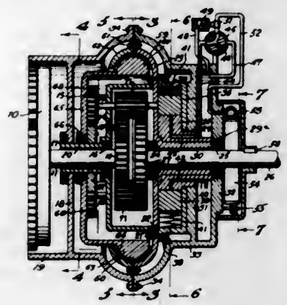
1. A process for the treatment of herring, parts of whales and other marine animals to obtain cattle food, oils and other useful products therefrom, comprising the steps of heating the raw material with steam as a heating medium, subjecting the heated material to a treatment to separate as a liquid the so-called "glue water" from the undissolved solids, evaporating the glue water to a high degree of concentration at a temperature considerably above 100° C. under a pressure sufficiently high to result in the production of pressure steam, of which a part at least is thereupon utilized to heat the raw materials without entering into direct contact with the same.

2,590,304
APPARATUS AND METHOD FOR MOLDING CONCRETE FLOOR SLABS IN SITU
Manuel Gonzalez Flores, Mexico City, Mexico
Application August 20, 1947, Serial No. 769,650
4 Claims. (Cl. 25—131.5)



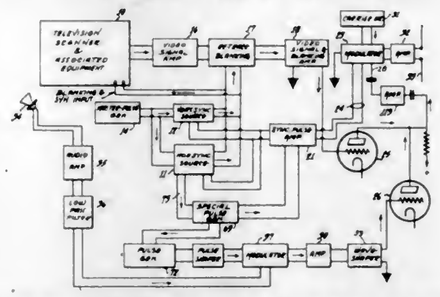
1. Apparatus for pouring a concrete slab in a structure having spaced apart vertical and horizontal structural supporting members of at least two floors of the structure constituting upper and lower floor levels comprising a supporting platform having the marginal edges thereof disposed inwardly of adjacent vertical supporting members of the structure, removable support means extending from adjacent the upper floor level to a point below the level of the lower floor and engageable below said supporting platform for supporting said platform on the horizontal members of said lower level of the structure, an upper platform having the marginal edges thereof disposed inwardly of said vertical members of the structure to provide a concrete form for the upper level, cleats on said vertical supporting members disposed above said supporting platform, wedge means engageable between said cleats and said supporting platform and adapted to move said upper platform vertically relative to said supporting platform, and elevating and lowering means carried by said horizontal members of the lower level and connected to said supporting platform positioned at the upper level for effecting vertical movement of said supporting platform and said upper platform whereby after the concrete poured above said upper platform positioned at the upper level has set sufficiently to support its own weight, said wedge means engageable between said cleats and said supporting platform may be removed to allow for moving of said upper platform downwardly towards said supporting platform and free of the concrete, and said elevating and lowering means may be operated to lower said upper and supporting platforms to the next lower level after said wedge means have been disengaged from said supporting platform.

2,590,305
HYDRAULICALLY CONTROLLED CONTINUOUSLY VARIABLE RATIO TORQUE CONVERTER
Emery L. Foster, Raytown, Mo.
Application June 24, 1949, Serial No. 101,186
5 Claims. (Cl. 74—794)



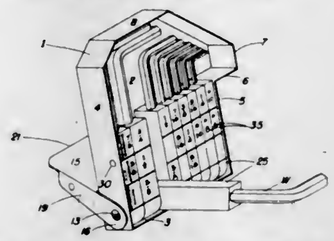
1. A torque converter of the character disclosed comprising, in combination, coaxially arranged drive and driven shafts each having a sun gear secured thereto for rotation therewith, coacting primary and secondary rotors arranged for rotation about the axis of said shafts having adjacently disposed coacting fluid gripping surfaces, a quantity of driving fluid, casing means for rotatively supporting said shafts and submerging said rotors in said quantity of fluid whereby a fluid connection is developed therebetween as the speed of rotation of the primary rotor is progressively increased, a sun gear carried by the secondary rotor, a first planetary gear rotatively supported on the primary rotor and arranged in meshed engagement with the sun gear on said driven shaft, an idler gear rotatively supported on the primary rotor and interposed between said first planetary gear and the drive shaft sun gear in meshed engagement therewith, and a second planetary gear secured to said first planetary gear and arranged in meshed engagement with said rotor sun gear.

2,590,306
COMBINED TELEVISION AND SOUND SYSTEM
Gordon L. Fredendall and Alfred C. Schroeder, Feasterville, Pa., assignors to Radio Corporation of America, a corporation of Delaware
Application May 29, 1943, Serial No. 488,968
1 Claim. (Cl. 178—5.8)



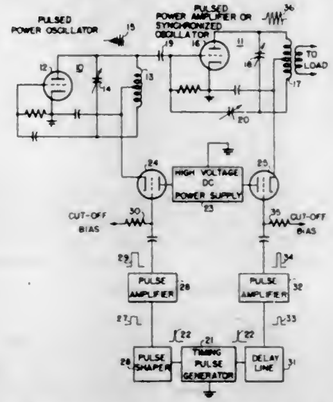
The method of receiving and translating video and sound signals transmitted by a single carrier where the sound signals are impulses of varying duration, comprising the steps of generating local pulses in timed relationship with said video signal, clipping one side of said local pulse and shifting the time of occurrence of the other side of said local pulse in accordance with the timed duration of the received impulse.

2,590,307
WRENCH CASE
Alexander J. Gibson, Philadelphia, Pa.
Application April 15, 1950, Serial No. 156,219
7 Claims. (Cl. 206—16)



1. A container for a plurality of substantially similar wrenches of different sizes, each wrench having work engaging portions at its ends extending respectively in planes normal to each other, the container comprising a casing having rear, top, bottom and side walls and a back wall the top wall including a portion extending parallel to the bottom wall and one extending angularly thereto, a spindle extending between the side walls and spaced from the back wall, a plurality of tool holders respectively pivoted independently and near one end on said spindle for movement from positions substantially parallel to and proximate the back wall into engagement and substantial parallelism with the bottom wall, each tool holder having a socket for reception of an end portion of a corresponding wrench, the socket in each holder extending from the outer free end thereof toward said spindle a distance proportioned to the wrench length whereby when each holder has received corresponding a wrench with an end thereof engaging the bottom of the holder socket and the other end lying in a plane parallel with the back wall of the casing each wrench intersects a plane normal to the spindle axis which is also intersected by at least one other of the wrenches lying in said parallel plane and having an end extending into the socket of an adjacent holder.

2,590,308
RADAR PULSING SYSTEM
James F. Gordon, Towson, Md., assignor to Bendix Aviation Corporation, Towson, Md., a corporation of Delaware
Application June 15, 1949, Serial No. 99,320
3 Claims. (Cl. 250—17)

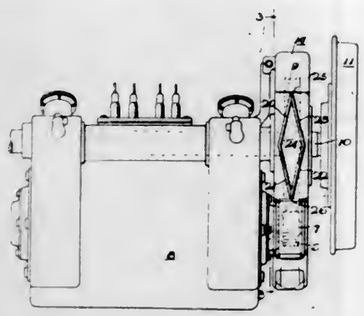


1. In a radio pulse echo system: a pulsed power oscillator feeding a pulsed power amplifier, the output of which is radiated as a signal, a source of timing pulses, a source of plate voltage for said oscillator and said amplifier, means providing a normally non-conductive path between said source of plate voltage and said oscillator, means shaping said timing pulses and applying said shaped pulses to said path in a manner to render it conductive for the duration thereof, said shaped pulses being of greater duration than said timing pulses, means providing a normally non-conductive path between said source of plate voltage and said amplifier, a pulse delaying and squaring circuit, means impressing timing pulses from said source on said circuit, said circuit squaring said timing pulses and delaying them by an interval which taken together with the duration of each of said squared pulses is equal to the duration of each of said shaped pulses and means applying said delayed pulses to the path between said source of plate voltage and said amplifier to render the same conductive for the duration thereof.

2,590,309
GUARD DEVICE FOR AXLE-EMBRACING GEAR HOUSING
Otto C. Gruenberg, Glen Rock, N. J.
Application January 18, 1950, Serial No. 139,206
2 Claims. (Cl. 37—29)

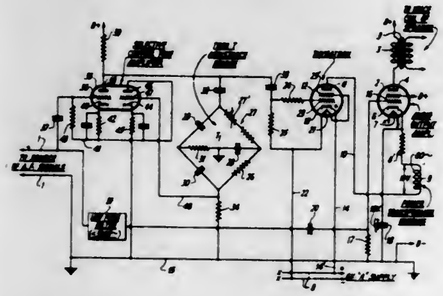
1. A protective guard device for integral mounting on a railway vehicle power plant of the axle-embracing type wherein the vehicle propelling motor and the gear train connecting said motor with the vehicle axle are suspended beneath the floor of the vehicle, in a housing which surrounds said axle, which housing has its lowest section disposed below said axle and closely adjacent to one of the wheels of the vehicle, said protective guard device comprising a plurality of blade-like strips of metal integrally secured to the gear train housing wall

and depending vertically downward from the lowest portion of said housing to a level approximating the level of the lowest point on the vehicle's wheel assembly, said blade-like strips being



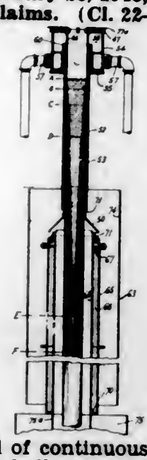
positioned with their forward edges joined to form an acute-angled cutting instrument adapted to exert cleaving pressure upon ice-laden snow or other obstruction in the path it traverses.

2,590,310
SELECTIVE SQUELCH CIRCUIT
George D. Hanchett, Jr., Millburn, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 20, 1947, Serial No. 769,600
10 Claims. (Cl. 179—171)



1. In combination with a source of audio frequency signals to be amplified in which a control tone signal of a predetermined high audio frequency may be selectively introduced, an amplifier tube for said signals to be amplified having input and output electrodes, filter means between said source and said input electrodes effective to apply only the signals to be amplified to said input electrodes, said output electrodes being adapted for connection to an audio utilization circuit, a direct current voltage supply circuit including the space current path of said tube, an electronic control device included serially in circuit with said space current path of said tube, and a second filter means responsive to said control tone frequency connected between said source and said electronic control device and effective to apply only control tone frequency signal currents to said electronic discharge device, whereby said electronic discharge device is rendered operable only when said control tone signal is introduced in said source to effect operation of said amplifier tube and consequent amplifiction thereby of the signals to be amplified.

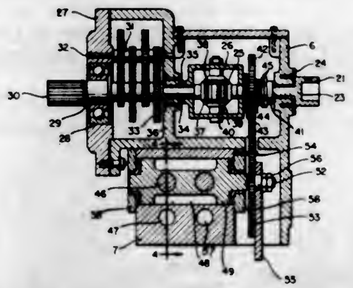
2,590,311
PROCESS OF AND APPARATUS FOR CONTINUOUSLY CASTING METALS
Isaac Harter and Isaac Harter, Jr., Beaver, Pa., and Otis R. Carpenter, Barberton, Ohio, assignors, by mesne assignments, to The Babcock & Wilcox Company, Jersey City, N. J., a corporation of New Jersey
Application February 26, 1948, Serial No. 10,956
12 Claims. (Cl. 22—144)



1. The method of continuously casting molten ferrous metals and alloys in an open-ended vertical mold having a laterally confined space around the mold wall outer surface for the flow of a liquid coolant and including a movable dummy bottom to which the casting formed in the mold initially attaches, which comprises delivering the molten metal to be cast into the upper end of the mold, maintaining a non-wetting heat transfer contact between the molten metal in the mold and the mold wall inner surface continuously introducing cooling water at a substantial superatmospheric pressure into the laterally confined space around the mold wall outer surface at a level therein above the normal maximum level of molten metal in the mold and passing the cooling water downwardly through said space at a velocity insuring a highly turbulent cooling water flow in contact with said mold wall outer surface at the level of molten metal in the mold and in quantities of at least one gallon of cooling water per pound of ferrous metal cast, insuring a rate of heat transfer through the mold wall sufficient to cause a rapid progressive formation of a casting shell around the mass of molten metal in the mold, and withdrawing the dummy bottom and embryo casting formed thereon downwardly from the bottom of the mold.

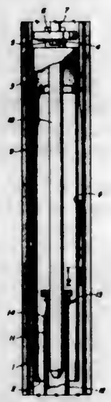
9. Continuous casting apparatus comprising a mold assembly including an open-ended stationary upright vertically elongated tubular mold liner formed of high thermal conductivity metal, an open-ended vertically elongated tubular member at the outer side of said mold liner and cooperating therewith to form a peripheral cooling liquid passage therebetween opening at its lower end directly to a zone of atmospheric pressure, means for supporting said mold liner and tubular member at their upper ends only, whereby their lower ends are free to expand and contract, and means for supplying cooling liquid to the upper end of said passage comprising means arranged to form a cooling liquid supply chamber surrounding the upper portions of said mold liner and tubular member and means arranged to form a progressively converging cooling liquid entrance section connecting the upper part of said supply chamber to the upper end of said passage.

2,590,312
DIFFERENTIAL FUEL REGULATOR FOR TURBOJET ENGINES
Emmett C. Hartley, Euclid, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application January 31, 1947, Serial No. 725,491
2 Claims. (Cl. 264—9)



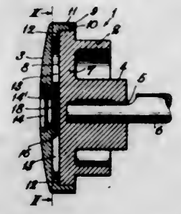
1. In combination, means for regulating the fuel fed to an internal combustion engine comprising, a fuel valve, a valve adjusting means, a differential gear for actuating the valve adjusting means, gearing responsive to the engine speed acting on the differential gear, and a motor acting on said differential gear, a manually operated speed control for the motor and a thermostatic speed control for the motor, responsive to engine temperatures, both said controls being connected in series.

2,590,313
TUBULAR CHART DEVICE
Carl H. W. Hartmann, Tulsa, Okla., assignor to Geophysical Research Corporation, New York, N. Y., a corporation of New Jersey
Application May 26, 1949, Serial No. 95,410
4 Claims. (Cl. 346—138)



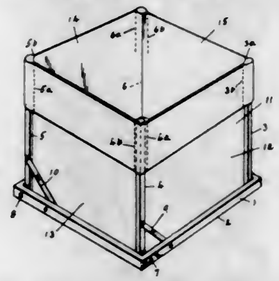
1. A recorder assembly including in combination a chart holder having a substantially cylindrical bore for holding the chart, a recording tool mounted in said bore to work against a chart held therein, means for relatively moving said holder and tool in recording directions, and a normally substantially flat chart made of elastic material and fitted inside said bore by being elastically bent to conform substantially to its shape with its side edge portions mutually adjacent and permanently bent inwardly to form longitudinally extending flanges that normally angle more sharply away from the central portion of said chart and which have their outer edge portions intercontacting and thus elastically springing each of said flanges backwardly, said spring flanges applying force circumferentially to said chart forcing its portions adjacent thereto to press radially against said bore.

2,590,314
ON-OFF INDICATOR FOR RADIO APPARATUS
Arnold Haven Haun, Williamsport, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application May 12, 1945, Serial No. 593,501
6 Claims. (Cl. 116—124.1)



1. An on-off indicator provided for operation with a rotatable operating shaft, comprising a control knob affixed to and rotatable with the shaft, said knob being formed with a slot extending in a direction transverse to the shaft axis and with a single viewing aperture axially disposed with respect to the knob at the center thereof and having a distinctive background, a semi-circular portion on said knob extending from the periphery into said slot and about said aperture and a circular disc contained within the slot, said slot being of such configuration that the disc is adapted in the "off" position of the switch to occupy a position in the semi-circular portion within the slot in registry with the viewing aperture and in the "on" position of the switch to gravitate to a position in the slot which is out of registry with said aperture and to thereby expose the distinctive background of the slot wall aligned with the viewing aperture.

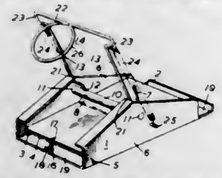
2,590,315
PLAY PEN
William Earl Hawley, Jr., Rochester, N. Y.
Application December 4, 1948, Serial No. 63,510
1 Claim. (Cl. 5—98)



A flexible fabric play pen forming enclosure, for forming a play pen in conjunction with an upended four leg rectangular table of the folding card table type, comprising a rectangular fabric bottom and four rectangular fabric side walls, said adjacent side walls being connected along the entire length of the respective corners formed thereby and said side walls being connected to said bottom along the entire perimeter thereof,

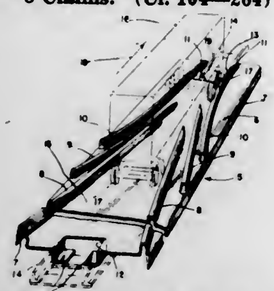
said side walls having a substantial portion of the upper ends thereof turned over outwardly and overlying the upper portions of the remainder of said side walls, the turned over portion extending downwardly over the remainder at least a third of the width of the remainder, and said turned over portions being secured to said upper portions along vertical lines spaced from, but adjacent to said corners on opposite sides thereof, whereby to form four relatively deep vertical pockets to receive the legs of said table, said pockets being of a length equal to the width of the turned over portions and said pockets being the sole means for securing said play pen enclosure upon an upended table, the upturned portion of said side walls being of a height commensurate with the leg length and said bottom being dimensioned commensurate with the spacing between the legs of the table to which the flexible enclosure is adapted.

2,590,316
ANIMAL TRAP
Lionel C. Heal, Winnersh, Reading, England
Application August 5, 1949, Serial No. 108,698
In Great Britain June 20, 1949
6 Claims. (Cl. 43—83.5)



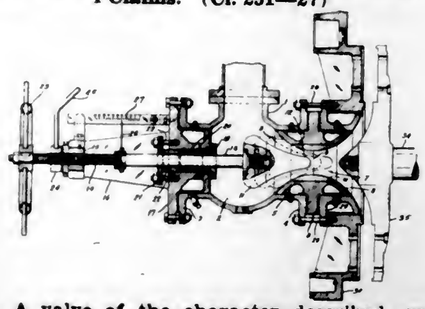
1. An animal trap of break-back type comprising a base, a platform hinged to said base, a striker pivotally supported on said base and engaging said platform to hold said platform in a cocked position, spring means biassing said striker toward the closed position, said spring means extending between the outer part of the striker and an anchorage on the base below the pivotal axis of the striker and offset toward the bait-carrying end of the platform, and said spring means being ineffective to throw down the striker from the cocked position until light pressure on the bait-carrying end of the platform displaces said platform sufficiently to effect disengagement between said platform and the striker.

2,590,317
TRACK LOCATING DEVICE FOR TOY TRAINS
Walter Henderson, Maywood, Ill.
Application May 25, 1948, Serial No. 29,068
8 Claims. (Cl. 104—264)



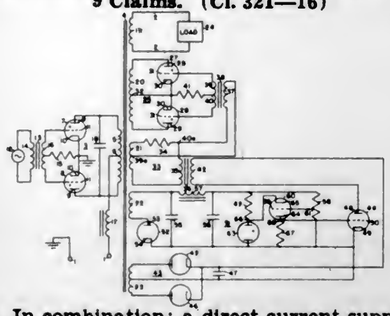
1. Track locating means for toy trains comprising, a bed portion substantially wider than a toy train track to which it may be attached, resilient rail locating means at the front and rear ends of the said bed portion engaging the inner sides of the rails of said toy train track in snap-on and off relationships supporting the said bed on the top surfaces of the said toy train track, the said bed portion being at least twice the length of a toy train to be aligned thereby, and converging guide rail means of greater magnitude than the width of the said toy train track tapering inwardly to a width equivalent to that of the said toy train track.

2,590,318
VALVE
Robert F. Hollis, Alton, Ill., assignor to Alton Box Board Company, Alton, Ill., a corporation of Delaware
Application August 7, 1948, Serial No. 43,031
4 Claims. (Cl. 251—27)



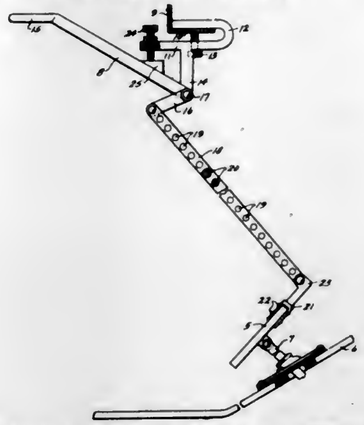
1. A valve of the character described, comprising a throat member having an orifice of circular cross section, the surface elements of said throat being inwardly convex, a valve head movable axially of the throat member, the exterior surface of said head being generally concavo-conical, said throat member and head having a section at which the radius of each is the same, said section constituting a circle of tangence at which the throat member and head make line contact when the valve is closed, the radius of said throat at sections adjacent its circle of tangence being greater on both sides of said circle of tangence than the radius of said head at a section correspondingly adjacent its circle of tangence, and the differential between said radii varying on substantially the same gradient on both sides of the circle of tangence.

2,590,319
ELECTRIC TRANSLATING SYSTEM
William J. Holt, Jr., Garland, Tex., assignor to Varo Mfg. Co., Inc., Garland, Tex., a corporation of Texas
Application February 9, 1950, Serial No. 143,329
9 Claims. (Cl. 321—16)



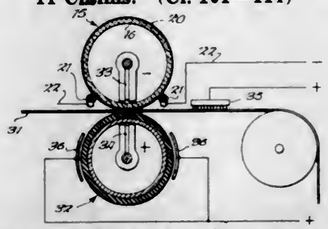
9. In combination: a direct current supply circuit; an alternating current load circuit; electric translating apparatus connected between said circuits and comprising a transformer having a primary winding and a first secondary winding, a plurality of electric valves connected between said primary winding and said direct current supply circuit, and a capacitor connected across said primary winding; means for varying the impedance of said transformer, said means comprising a second secondary winding and electric valve means for varying the current in said second secondary winding; and control means operatively associated with said alternating current load circuit and said electric valve means for varying the current in said second secondary winding in accordance with the voltage of said alternating current load circuit.

2,590,320
SUPPLEMENTAL THROTTLE CONTROLLING DEVICE
Arthur V. T. Houser, Dayton, Ohio
Application September 18, 1946, Serial No. 697,655
5 Claims. (Cl. 74—482)



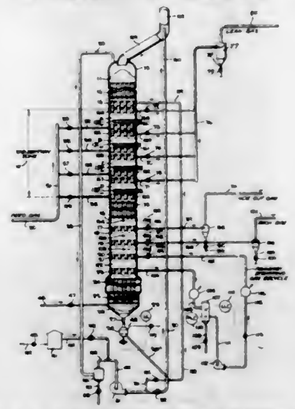
3. A supplemental throttle controlling device for a motor vehicle in which the throttle is controlled by a pedal supported above the floor of said vehicle, said device including a supporting structure adapted to be mounted within the body of said vehicle in a fixed position adjacent the instrument board thereof, a lever pivotally mounted on said supporting structure for movement about a transverse axis and extending rearwardly from said axis to a point adjacent to and above the level of the driver's seat, means for connecting said lever with said pedal to cause the lever and the pedal to move in unison, and a member adjustably mounted on said supporting structure to interrupt the movement of said lever in throttle closing direction while said throttle is partly open.

2,590,321
PRINTING MEANS
William C. Huebner, New York, N. Y.
Application June 23, 1945, Serial No. 601,145
11 Claims. (Cl. 101—114)



1. A continuous cylindrical printing element comprising a porous body which is permeable by fluid inks, dyes and the like and is provided with a printing surface including non-printing areas which are impervious to said fluids and leave printing areas which are porous and provide exit for said fluids from the pores of said body to the exterior of said printing areas, said printing element including electrically conductive material which bridges said printing areas of the printing surface and has minute interstices through which said fluids exit, means for electrically charging said conductive material, and an electrode of a polarity opposite to that of said conductive material and which charges the web to be printed, to cause printing fluid to be transferred by electric charges to said web.

2,590,322
ADSORPTION PROCESS
Donald H. Imhoff and Clyde H. O. Berg, Long Beach, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application December 13, 1947, Serial No. 791,577
29 Claims. (Cl. 183—4.2)

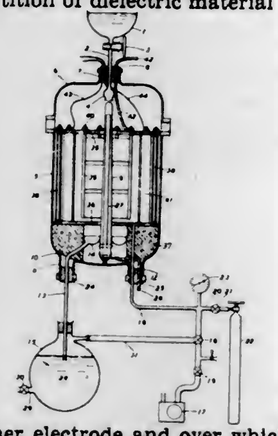


26. An apparatus for the separation of gaseous mixtures which comprises a selective adsorption column provided at successively lower levels therein with a primary cooling zone, an adsorption zone, a plurality of rectification zones and a desorption zone which contains a heating zone, means for removing adsorbent from the bottom of said column and conveying it for introduction into the top of said column to maintain a continuous downward flow of solid granular adsorbent as a moving bed through the aforementioned zones, means for introducing said gaseous mixture into said adsorption zone, means for removing a substantially unadsorbed lean gas product from said adsorption zone, means for removing a gas product from one of said rectification zones, means for introducing a primary stripping gas into said desorption zone to desorb the more readily adsorbable constituents at a low temperature and in the absence of said secondary stripping gas, means for introducing a secondary stripping gas into said desorption zone, means for removing desorbed primary stripping gas together with secondary stripping gas from said desorption zone, means for separating said primary stripping gas from said secondary stripping gas, and means for returning said primary stripping gas to said desorption zone.

2,590,323
ELECTRICAL APPARATUS
Arthur M. J. Janser and Charles S. Townsend, London, England, assignors to Hugh Tevis, Monterey, Capetown, South Africa
Application December 30, 1947, Serial No. 794,628
In Great Britain October 23, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 23, 1966
3 Claims. (Cl. 204—312)

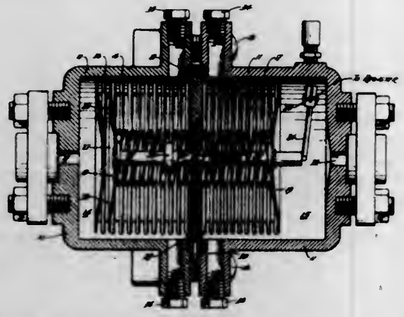
1. Apparatus for subjecting liquid material to

electrical treatment, comprising a closed treatment chamber, means for feeding the liquid material to the treatment chamber, means for collecting the treated material therefrom, means for reducing the pressure in such chamber in combination with means for introducing a processing gas into the chamber while a reduced pressure is maintained therein during the flow of the material therethrough in contact with the processing gas, an inner electrode, a tubular partition of dielectric material surround-



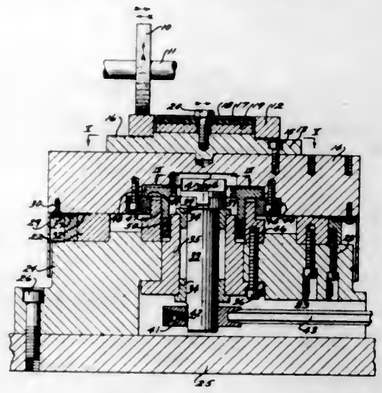
ing said inner electrode and over which the liquid material flows as a film during treatment, an outer interrupted electrode surrounding said partition and composed of spaced staggered arcuate plates coaxially disposed, and an induction coil surrounding said outer electrode within the chamber.

2,590,324
TEMPERATURE COMPENSATED MEANS FOR MEASURING DIFFERENTIAL PRESSURES
Barton Jones, Los Angeles, Calif.
Application March 28, 1944, Serial No. 528,409
8 Claims. (Cl. 137—156.5)



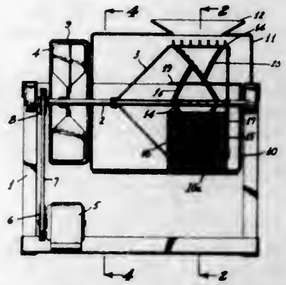
6. A differential pressure-responsive device including two opposed bellows of substantially equal effective areas in normal communication with each other and filled with liquid, one end of each bellows being stationarily mounted, means connecting the other ends of each of the bellows to cause them to move in unison, a supplemental bellows attached to one of said bellows having its interior in communication therewith through its mentioned other end to compensate for expansion and contraction of the liquid, means for conducting one of the pressures between which a differential may exist to a confined space surrounding one of said bellows, and means for conducting the other of said pressures to a confined space surrounding the other of said bellows and said supplemental bellows.

2,590,325
ROTARY GRINDING TABLE
Carl O. Kamp, Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application October 8, 1948, Serial No. 53,419
2 Claims. (Cl. 308—135)



1. The combination of a bearing and a rotatable work support for a precision grinding machine or the like comprising an annulus of bearing material having a flat bearing surface in supporting contact with the work support, said bearing surface being cut away from its opposite edges at alternately spaced positions to avoid a continuous bearing circle and to provide edges intercepting the continuity of the bearing surface to prevent accumulation on the surface of foreign materials.

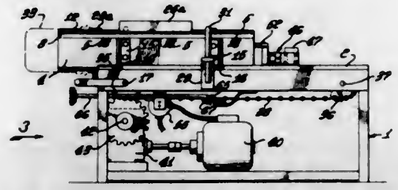
2,590,326
PICKING MACHINE
Arthur J. Kay, Los Angeles, Calif.
Application March 8, 1946, Serial No. 652,956
3 Claims. (Cl. 19—90)



1. In a picking machine, a frame, a shaft rotatable in said frame, means for rotating said shaft, a picking drum rigidly mounted on the shaft, said drum comprising a network of annular diagonally and axially directed bars, teeth radially rising from said bars, a fan on the shaft adjacent said drum, a coaxial casing snugly encompassing said drum, said casing comprising a stationary upper half portion having at the top series of arcuate centripetally directed teeth in close proximity to said drum teeth and having its lower half-portion hingedly secured to the machine frame, there being an opening in said lower half-portion in registration with said drum teeth, a screen covering said opening, a coaxial casing encompassing said fan, the adjacent casing walls having aligned passages therethrough, means seatable between said walls for controlling

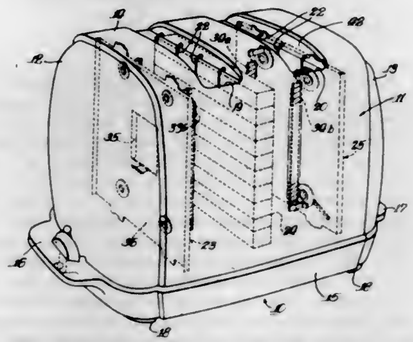
the said passages, a hopper on said drum casing for admitting material to said drum, and a discharge outlet from said fan casing.

2,590,327
CUSHION AND MATTRESS FILLING MACHINE HAVING CONTINUOUSLY RECIPROCATING DISCHARGING MEANS
Arthur J. Kay, Los Angeles, Calif.
Application December 8, 1947, Serial No. 790,357
8 Claims. (Cl. 226—46)



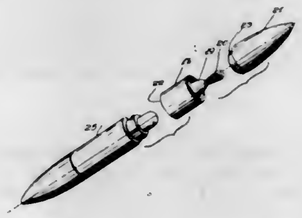
7. A mattress cover filling machine comprising, a table having a slot longitudinally through the center thereof, a filler frame mounted on said table, one end of said frame overhanging the end of the table to form a support for the mattress cover to be filled, means for adjusting said frame to suit the size of cover to be filled, a power driven transfer mechanism including a member mounted for reciprocatory movement within the slot of the table, means within said frame for discharging filler therefrom, said means extending rearwardly above said member, and an element seatable in the extended portion of the discharging means and projecting through the member to interlock these parts and so continuously to transmit reciprocating movement to the discharging means thereby to advance the filler through the casing and subsequently to retract the discharging means.

2,590,328
HEATING UNIT FOR COOKING DEVICES
Ludvik J. Koci, Chicago, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois
Original application January 30, 1948, Serial No. 5,247. Divided and this application February 26, 1948, Serial No. 11,102
10 Claims. (Cl. 219—19)



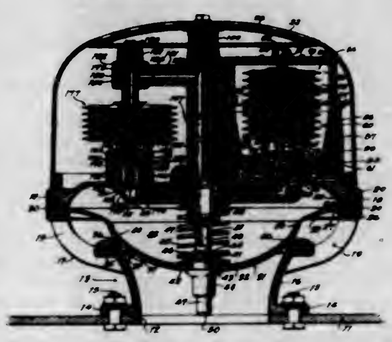
5. In a cooking device, a heating unit for producing uniform heating over an entire plane surface having an area of the order of that of the surface of a bread slice, including solely a pair of spaced linear heat sources each comprising a thin strip of insulating material and an electrical conductor having a substantial electrical resistance so as to function as a heater element when electric current flows therethrough, said electrical conductor being wound as a flattened spiral about said strip, and means for supporting said linear heat sources with their longitudinal axes disposed in a common plane parallel with said plane surface with the flat sides of said flattened spiral perpendicular to said plane surface, said linear heat sources being spaced from each other by a distance which is relatively large compared to the distance between said heating unit and said plane surface.

2,590,329
LIPSTICK AND BRUSH COMPACT
Viva Kromray, Argo, Ill.
Application March 24, 1950, Serial No. 151,727
1 Claim. (Cl. 132—79)



Lipstick and applicator compact means, comprising a lipstick unit provided with a reduced shoulder portion having frictional gripping portions thereon, an applicator unit including a brush holder element having a conical cavity therein and a reduced shoulder portion, and an applicator having recessed portions at each end thereof adapted to be frictionally removably and optionally secured to the said last-mentioned reduced shoulder portion in order to conceal an operative portion thereof in the said conical cavity and expose alternately the said applicator unit, and further adapted to assemble the said lipstick unit to the said applicator unit to form a flush outer cylindrical surface at the points of juncture.

2,590,330
AIRCRAFT CABIN PRESSURE REGULATOR
Rudolph E. Krueger, South Gate, Calif.
Application June 6, 1947, Serial No. 752,885
33 Claims. (Cl. 98—1.5)



33. In an aircraft cabin pressure control valve, means defining an outlet for discharge of air from the cabin to atmosphere, and a valve seat adjacent said outlet; a diaphragm; a housing

to which the periphery of said diaphragm is secured, said housing cooperating with said diaphragm to define a control chamber in which air pressure may act on one side of said diaphragm; the central portion of said diaphragm constituting a vent valve cooperable with said seat to regulate outflow of air through said outlet; a bellows responsive to changes in the differential of cabin pressure over atmospheric pressure; and means including a pilot valve actuated by said bellows for providing a flow of air from the cabin into said control chamber, so as to control the operation of said vent valve to maintain said differential substantially fixed at a predetermined value; said central portion and the portion of the diaphragm circumscribing the same, having their respective surfaces on the other side of the diaphragm subjected respectively to cabin pressure and atmospheric pressure, said respective surfaces being so proportioned as to have substantially equal effective areas of pressure responsiveness, whereby the pressure in said control chamber will be substantially the midpoint in the pressure drop from cabin pressure to atmosphere through said control chamber.

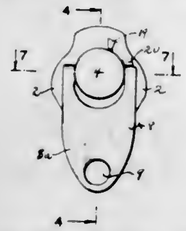
2,590,331

HOOKLESS SLIDE FASTENER

Samuel J. Lackritz, New York, N. Y., assignor to Kee Zipper Corporation, New York, N. Y., a corporation of New York

Application December 1, 1949, Serial No. 130,409

4 Claims. (Cl. 24—205.14)



1. A slide having Y-shaped channels for engaging and disengaging longitudinally disposed hookless fasteners, said slide having longitudinal top and bottom walls, said walls having front and rear ends, said rear ends being integral with a resilient rear transverse yoke which biases said walls transversely away from each other to selected separated positions, holding means comprising a pin which is turnably connected to the bottom wall of said slide and which extends through an opening in the top wall of said slide and which is turnable about the axis of said pin relative to said walls, said holding means being operative to force said longitudinal walls towards each other from said selected separated positions to selected proximate positions and to release said walls to permit them to move to said selected transverse positions, said walls being closer to each other in said selected proximate positions than in said selected separated positions, said holding means being located and operative to separate said hookless fasteners when said slide is moved longitudinally forwardly, and a turnable member which is turnably connected to said pin to turn relative to said pin about a pivot axis which is perpendicular to the axis of said pin, said turnable member having cam means which abut the top face of said top wall when said pivot axis is laterally disposed to hold said walls in said selected proximate positions, said cam means being shaped to permit said walls to move to said selected separated positions when said pivot axis is longitudinally disposed.

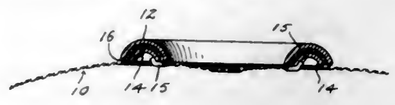
2,590,332

GROMMET FOR UMBRELLAS

Joseph Levin, Baltimore, Md., assignor to Umbrella Machinery Corp., New York, N. Y., a corporation of New York

Application April 14, 1949, Serial No. 87,419

1 Claim. (Cl. 24—141)



A grommet for use with a fabric umbrella comprising a pair of separable rings, each having an arcuate cross-sectional configuration, the convex side of one of said rings nesting in the concave side of the other, said rings being so dimensioned that when so seated, their rims are substantially flush, a plurality of equidistantly spaced pointed tongues on the inner edge of the rim of said other ring adapted to be overlapped over the inner edge of the rim of said one ring, and extend inwardly into the concavity of said one ring, the outer edge of the rim and the inner edge of the rim between the tongues of said other ring and both edges of the rim of said one ring being of rounded arcuate configuration whereby no sharp edges of the rims are exposed to contact with the fabric of said umbrella.

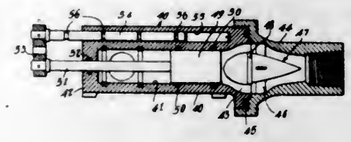
2,590,333

VALVE APPARATUS FOR FUEL DISTRIBUTING SYSTEMS

Allan H. Lockheed, Arcadia, and Homer T. Seale, Alhambra, Calif.; said Seale assignor to said Lockheed

Application May 14, 1945, Serial No. 593,714

3 Claims. (Cl. 251—78)



1. A valve apparatus comprising a main body having a bore, a plurality of spaced apart annular grooves in said bore, a packing ring in each of said grooves, a port in said body communicating with said bore between adjacent packing rings, a hollow valve member having a running fit with said bore and of a length sufficient to bridge said adjacent packing rings and to shut off the port therebetween, said valve member being open at its ends for the flow of fluid axially therethrough, the bore of said body expanding at one end, one of the spaced grooves being adjacent to the zone of expansion of said bore and, a body disposed centrally of said bore at said expanded end and provided with a packing ring adapted for engagement with the interior of said hollow valve member to close the axial flow of fluid through said valve member, said valve member being of sufficient length to bridge between the packing ring of said body and the packing ring in the groove adjacent the expanding zone of said body to close said bore.

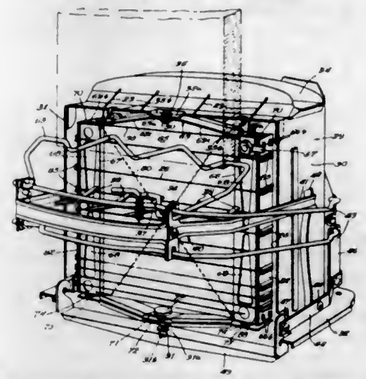
2,590,334

COMBINED HEATING ELEMENT AND THERMOMOTIVE DEVICE FOR COOKING DEVICES OR TOASTERS

Morris W. Loomer, Bellwood, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois

Application February 27, 1948, Serial No. 11,646

8 Claims. (Cl. 99—335)



1. The combination in a toaster of spaced heating elements for performing a toasting operation on a bread slice disposed therebetween, a movable carriage for moving said bread slice toward and away from a position between said heating elements, said heating elements comprising an expansible wire which expands and contracts with heating and cooling, and means connected to said carriage utilizing the expansion and contraction of said wire for moving said carriage relative to said heating elements.

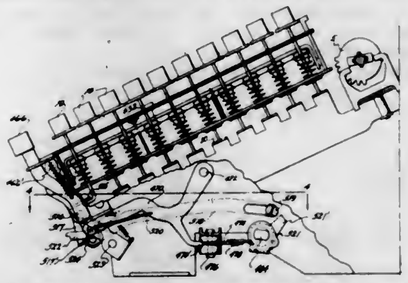
2,590,335

SELECTIVE KEYBOARD CLEARING MEANS

James A. Maffie, Belleville, N. J., assignor to Monroe Calculating Machine Company, Orange, N. J., a corporation of Delaware

Application March 12, 1949, Serial No. 81,144

4 Claims. (Cl. 235—130)



1. In a motor operated calculating machine having value entering mechanism including a plurality of columns of depressible value keys; each of said columns including digital value keys and a zero key, and latching means for each of said columns for holding any one of said keys of the related column in depressed position and movable upon depression of any one of said keys to release any latched key of the same column; the combination of a bail movable to simultaneously depress all of said zero keys, means driven by the motor for moving and thereafter releasing said bail, spring means for restoring said bail from key depressing position, an operating key for initiating operation of said driving means, and normally disabled latching means controlled by said operating key to hold said bail in key depressing position whereby depression of digital value keys will be ineffective to release the related zero keys.

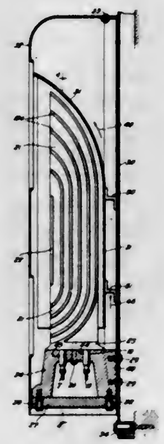
2,590,336

EXPLOSION-PROOF HEATER

Lowell R. Mast, East Rochester, N. Y., assignor to Electromode Corporation, Rochester, N. Y.

Application January 28, 1949, Serial No. 73,369

10 Claims. (Cl. 219—38)



1. In a heater, in combination, a grid member including a backbone portion having a plurality of fins thereon, said backbone portion including a base portion, an electric heating element cast within the backbone portion of said grid member and having its terminals extending from said base portion, a connection box including four walls and an integral top, said terminals extending through said top into the interior of said connection box, means connecting said base portion tightly to the top of said connection box, and a cover closing the bottom of said connection box, means connecting said cover tightly to said box, the engaging surfaces of all portions of said connection box, said base portion and said cover being smooth to fit closely to thereby provide tight flame paths from the interior of said connection box to the exterior thereof whereby the flame resulting from any explosion in the interior of said connection box will be completely dissipated in said flame paths before reaching the exterior of said connection box.

2,590,337

INFANT'S CRIB

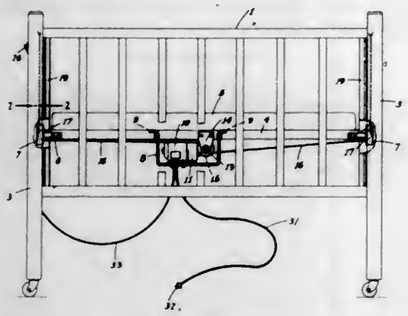
Walter J. McNabb, Delhi, and Walter J. McNabb, Jr., Napa, Calif., assignors of one-third to Mervyn H. Manasse, Napa, Calif., and two-thirds to said McNabb, Jr.

Application January 3, 1949, Serial No. 68,908

5 Claims. (Cl. 5—63)

1. In an infant's crib structure which includes a vertically movable mattress frame; an electric motor-driven power unit mounted in connection with the mattress frame beneath the same and for movement therewith, power unit actuated connections between the mattress frame and fixed parts of the crib structure operative to raise or

lower said mattress frame; and a circuit for the unit including a control switch mounted on a



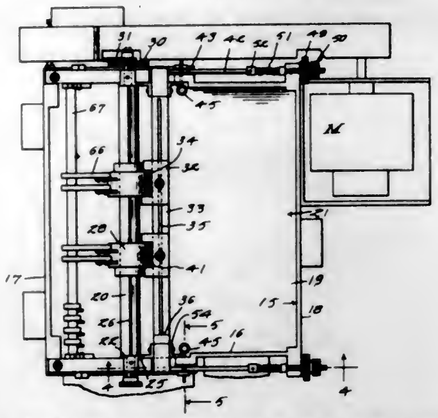
fixed part of the crib in an exteriorly accessible position but so as to be relatively inaccessible to the occupant of the crib.

2,590,338
POLE CLIMBER WITH AUTOMATIC IMPACT DRIVE
Roland A. Merrill, Van Nuys, Calif.
Application January 20, 1951, Serial No. 206,965
14 Claims. (Cl. 227—27)



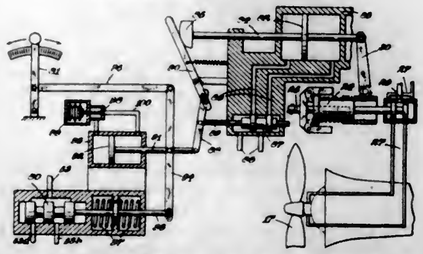
1. In a linesman's climber, a stirrup, an elongated casing secured to said stirrup, a claw having a shaft extending into said casing, and having an abutment member, a striker slideable longitudinally within said casing and adapted to engage said abutment member, a spring under compression between the upper end of said striker and the upper end of said casing, for driving said striker downwardly relative to said shaft, a trigger element carried by said striker and releasably engageable with said shaft to load said spring by relative upward movement of said striker in said casing when the casing is moved downwardly under the weight of the operator, and means carried by the upper end of said casing and rendered operative by the arrival of the casing at a downward limit of movement relative to said shaft, to release said trigger from its engagement with said shaft and thereby cause the striker to be propelled downwardly by the loaded spring and to strike a blow against said abutment member, whereby to drive said claw into a body engaged thereby.

2,590,339
MACHINE FOR APPLYING GLUE IN STRIPES TO SHEET MATERIAL
Robert Minkow, New York, N. Y.
Application May 6, 1949, Serial No. 91,719
5 Claims. (Cl. 118—221)



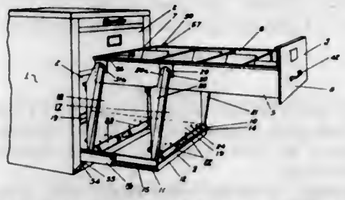
1. A gluing machine comprising a base formed with a glue well, a table engaging over said well, a shaft rotatably carried by said base and extending across said well, said shaft having a longitudinal key engaging surface, a gluing roller slidably carried by said shaft, having a key means engaging said surface for simultaneous rotation with sliding movement of said roller on the shaft, a pair of feeding rollers disposed over said gluing roller, and means offset from said gluing roller and engageable therewith for adjusting said gluing roller lengthwise of said shaft, said adjusting means including means for regulating the depth of glue retained on said gluing roller for application to an article passing over the latter.

2,590,340
SPEED RESPONSIVE DEVICE WITH FLUID PRESSURE MODIFIER
Donald Louis Mordell, Montreal, Quebec, Canada, and John Bertram Holliday, Derby, England, assignors to Rolls-Royce Limited, Derby, England, a British company
Application April 30, 1948, Serial No. 24,377
In Great Britain May 13, 1947
16 Claims. (Cl. 264—7)



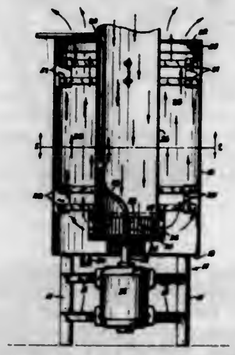
9. A control-system for an airscrew pitch-controlling mechanism of the type including a variable datum governing means having a datum-setting member, which system comprises a variable speed motor connected to adjust said datum-setting member; an operator-controlled member operative to initiate movement of said motor and to determine the amount of such movement; speed control means to determine the speed of operation of said motor; and pressure-sensitive means subjected to ambient pressure and operatively connected to adjust said speed-control means.

2,590,341
FILING CABINET
Orvie E. Nabholz, Shellsburg, Iowa
Application February 23, 1946, Serial No. 649,527
2 Claims. (Cl. 312—266)



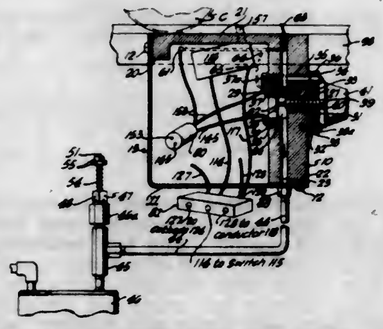
1. In a cabinet, a drawer, a mounting frame, means for slideably mounting the said mounting frame in the said cabinet, supporting means including generally parallel supporting members spaced longitudinally of the said drawer and pivotally secured to said drawer, generally adjacent the rear thereof, spring-biased hinge means operatively connecting the said parallel supporting means to said mounting frame adjacent the forward portion thereof, the said spring-biased hinge means urging the said supporting means upwardly and forwardly to raise the drawer to an elevated position, and buffing means for the drawer comprising a guide rod pivotally secured to the drawer at the rear end thereof, the forwardmost of the parallel supporting members having means for guiding the forward portion of the guide rod and a compression spring mounted on the guide rod between the drawer and said guiding means.

2,590,342
AIR WASHER
Carl F. Niehaus and William G. Niehaus, Indianapolis, Ind.
Application June 24, 1947, Serial No. 756,612
4 Claims. (Cl. 183—24)



1. An air cleansing device comprising a vertically arranged casing having an annularly open top and a closed bottom, a conduit having open ends concentrically fixedly secured in said casing with one end of said conduit disposed near the bottom of said casing and the other end of said conduit projecting through and beyond said casing open top, said conduit being spaced from the perimeter of said casing to define therewith a vertically-extending chamber open at its top, a shaft journalled for rotation upon a vertical axis and centrally projecting through said casing bottom, means for driving said shaft at high speed, a centrifugal fan carried on said shaft within said casing and registering with said one end of said conduit, said fan being arranged and adapted to draw air downwardly through said conduit and to discharge air radially into said chamber for upward flow to and through said open top of said casing to the atmosphere, and means disposed adjacent the center of rotation of said fan for continuously delivering liquid to said fan for discharge therefrom with such air.

2,590,343
DEFECTIVELY LABELED AND NONLABELED CAN DETECTING DEVICE
George J. Palmer, Long Beach, Calif.
Application October 25, 1948, Serial No. 56,314
12 Claims. (Cl. 209—72)

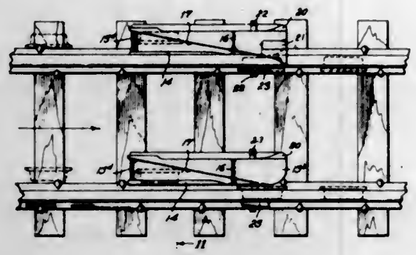


2. A device to detect and eject loosely labeled cans which includes: a pair of rails over which a plurality of cans roll; a housing positioned below and between said rails, with said housing having a passage extending downwardly from the upper face thereof; means to draw a stream of air through said passage; a resilient member mounted in said housing and in communication with said passage, with said member being deformed by a vacuum formed in said passage as a loose label on one of said cans momentarily blocks the entrance to said passage; a normally open electric circuit; a can ejecting device that is actuated by the completion of said circuit; electrical means to close a portion of said circuit upon said member being deformed; a member that is moved by each of said cans; and electrical contact means associated with said member that completes said circuit when said member is moved and said resilient member is deformed.

2,590,344
RERAILER
Joseph Herman Perks, Sr., Henrico County, Va.
Application March 22, 1948, Serial No. 16,208
7 Claims. (Cl. 104—268)

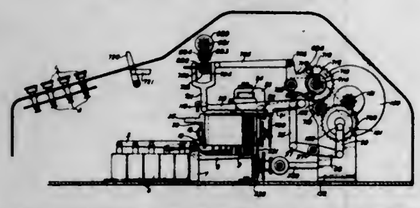
1. A rerailer for replacing derailed flanged wheels of a railway vehicle upon its track, comprising, an elongated block bounded on its sides by first and second spaced parallel vertical planes, said block forming a plane ramp surface rising from one end of the base of said block to a point between the ends thereof, the remainder of said block being of constant height equal to the over all height of the rail, the corner of the other end of said block adjacent said first plane being rounded, whereby said block may be positioned either with said first plane in contact with the side of the ball of the rail or at an angle to the

rail with said rounded corner in contact therewith, there being an upstanding flange in said



first plane along one side of said ramp surface, said flange terminating just short of said point, there being a shoulder formed in the top of said block and beginning at said one end substantially in said second plane and extending upwardly and laterally of said ramp surface toward said first plane, said shoulder intersecting said first plane between said point and the other end of said block, said flange and shoulder being of substantially the same height and forming a channel opening through said first plane, and a pad secured over the rounded corner of said block, and having a plane lower surface adapted to extend over the ball of the rail when said block or said rounded corner is in contact therewith.

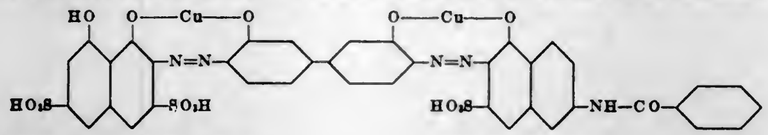
2,590,345
DIFFERENTIAL ACTUATING MECHANISM
Richard V. Reppert, Rochester, N. Y.
Application October 31, 1950, Serial No. 193,146
2 Claims. (Cl. 235—79)



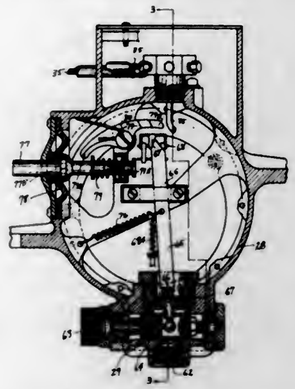
1. In a calculating machine having a register, the combination of register gears, two series of racks for rotating the register gears and engageable and disengageable therewith, actuating levers operatively connected to the racks and oscillatable about selectable points of oscillation to thereby vary the reciprocatory movement imparted to the racks by the levers, keys representing the digits, a carriage movable step by step by the operation of the keys, a series of rows of pins representing the digits in the carriage, settable to serve as points of oscillation for the actuating levers, said carriage being movable to bring the rows of pins in succession into operative relation with their setting means, means under control of the keys to set pins in said carriage in accordance with the digit value of the keys operated, means to engage one series of racks with the register gears during the initial stroke of a reciprocatory movement of the racks and to engage the other series of racks with the register gears, during the return stroke of a reciprocatory movement of the racks, to thereby impart rotation to the register gears in accordance with the digit value of the keys operated during a complete reciprocatory movement of the racks and means to impart oscillatory movement to the actuating levers about the selected points of oscillation.

2,590,346
CUPRIFEROUS DISAZO-DYESTUFFS
Henri Riat and Hans Mayer, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application June 7, 1948, Serial No. 31,603. In Switzerland June 26, 1947
4 Claims. (Cl. 260—148)

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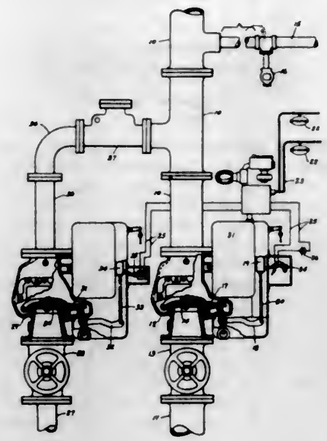


2,590,347
PNEUMATICALLY ACTUATED VALVE CONTROLLING APPARATUS
Harry N. Rider, Youngstown, Ohio, assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio, a corporation of Delaware
Application January 25, 1946, Serial No. 643,428
2 Claims. (Cl. 137—161)



1. A flow line valve and controlling apparatus therefor and comprising in combination a fluid control valve having a clapper therein and a hydraulic piston and cylinder assembly thereon, the said piston operatively connected to said clapper and a source of fluid pressure in communication with said hydraulic cylinder normally holding said piston and clapper in open position, means for venting the said fluid pressure to permit the said piston and clapper to move to closed position, said venting means comprising a pressure responsive release mechanism including a fluid relief valve in communication with said fluid pressure supply, pneumatically actuated means for effecting movement of the said fluid relief valve and a pneumatic thermostat in a fire zone in communication with said pneumatically actuated means for actuating the same.

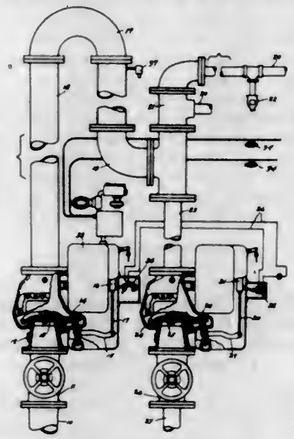
2,590,348
FOAM INJECTION SPRINKLER SYSTEM
Harry N. Rider, Youngstown, Ohio, assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio, a corporation of Delaware
Application January 25, 1950, Serial No. 140,421
5 Claims. (Cl. 169—14)



1. A foam injection sprinkler system comprising in combination a single system of distributing piping having open sprinklers thereon and a water supply source and a foam liquid supply source in communication therewith in spaced relation to the sprinklers, and a pair of automatic valves, one normally controlling the said water supply source and one normally controlling the foam liquid supply source, heat actuated devices in a fire zone, the said automatic valve controlling the water supply source being responsive in operation to action of the said heat actuated devices and opened thereby, and actuating means interconnecting the said automatic valves, the automatic valve controlling the foam liquid supply source being responsive in operation to the operation of the said water controlling automatic valve and thereby opened after opening of the water controlling valve.

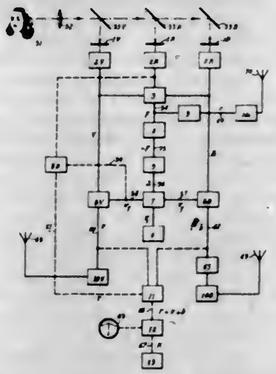
2,590,349
FOAM INJECTION SPRINKLER SYSTEM WITH ANTICONTAMINATION CONNECTIONS
Harry N. Rider, Youngstown, Ohio, assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio, a corporation of Delaware
Application January 25, 1950, Serial No. 140,422
4 Claims. (Cl. 169—14)

1. A foam injection sprinkler system comprising in combination a single system of distributing piping having open sprinklers thereon and a separately controlled water supply source and a separately controlled foam liquid supply source both in communication therewith in advance of the sprinklers, the means establishing communication between the said water supply source and the said distributing piping including an inverted U-shaped anti-siphoning section having



a vent thereon and positioned above the highest portion of the said distributing piping.

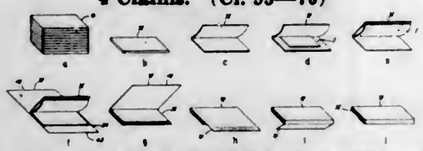
2,590,350
DEVICE RELATIVE TO COLOR TELEVISION
Paul M. Roeper, Paris, France
Application May 10, 1950, Serial No. 161,116
In France May 14, 1949
4 Claims. (Cl. 178—5.2)



1. System for colour television comprising in combination scanning means for exploring simultaneously elemental areas of the object to be shown at distance in a plurality of colours associated in polychromic groups, and for giving video signals in each of said colours, means for amplifying the video signals of a group of colours, with a gain inversely proportional to the sum of said video signals of the group, and for producing of modified video signals the sum of which would be constant for a group, means for measuring audio signals equal to the average variation with respect to the time of the sum of video signals of each group, electrical means for transmitting directly to a distant station a number of modified signals equal to the total number of colours minus the total number of the colour groups, electrical means for transmitting directly to the same station each of the audio signals representing the average variation of the sum of video signals of each group, means for receiving the modified image video signals and the audio signals, means for subtracting of the sum of the modified video

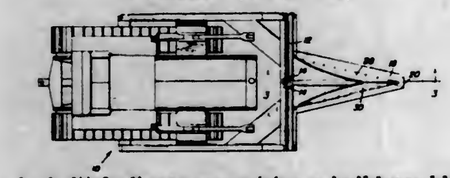
signals transmitted in each group from the voltage equal to the constant sum of the modified video signals of the group, and for restoring the modified video signal non transmitted in each group, means for amplifying the transmitted modified video signals and the restored modified video signal of each group with a gain proportionate to the audio signal relative to said group, and for obtention of signals the sum of which will no more be constant in each group, means for reproducing the coloured images by the signals coming from the receiver amplifiers the gain of which is proportional to the audio signal, and optical means for superposing these images.

2,590,351
MAGAZINE WRAPPING MACHINE
Clarence J. Russell, Churchton, Md.
Application January 7, 1948, Serial No. 978
4 Claims. (Cl. 53—70)



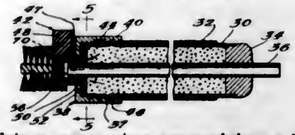
1. A machine for wrapping magazines and the like comprising unidirectional conveying means for successively engaging and directly supporting magazines from a stack and causing continuous travel flatwise of said magazines through said machine, means for opening each of said magazines at a predetermined level to enable matter to be inserted therein, means for thereafter opening each of said magazines at a different level to pocket said matter therewithin, means for thereafter supporting the upper portion of said magazine in opened position, means for thereafter feeding a succession of wrappers into the path of travel of said magazines and causing each of said magazines to lie flat on a side of one of said wrappers with its front edge disposed inwardly transversely of a transverse end of said wrapper, means for thereafter infolding said end into the opening in said magazine, means for thereafter closing said magazine, means operative during the infolding of said edge for overfolding the other side of said wrapper over the face of said magazine with a flap extending beyond the front edge thereof, means for thereafter applying adhesive to the underside of said flap inwardly of front and rear edges thereof, means for thereafter underfolding said flap over the front edge of said magazine against the underside of the other side of said flap, and means for thereafter applying sealing pressure to seal said wrapper.

2,590,352
DITCH DIGGER
Weldon E. Sanner, Rockwood, and Robert W. Decker, Garrett, Pa.
Application September 27, 1949, Serial No. 118,014
2 Claims. (Cl. 37—98)



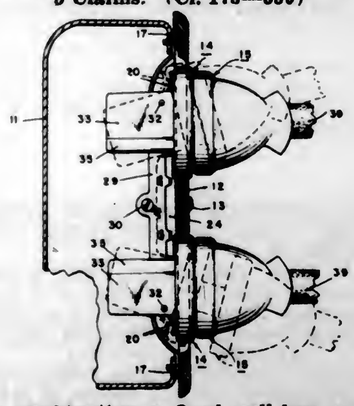
1. A ditch digger comprising a bulldozer blade, a base plate of substantially triangular shape having its rear edge portion secured to the lower edge of the blade, a pair of side members secured at their lower edges to said base plate and adjacent the rearwardly angular divergent edges of said base plate, said side members being convergent upwardly and divergent rearwardly, said base plate being inclined downwardly from the blade.

2,590,353
WASHING APPARATUS
Charles H. Schaar, Chicago, and Grady J. Zilligen, Hazelcrest, Ill.
Application January 14, 1948, Serial No. 2,294
10 Claims. (Cl. 299—83)



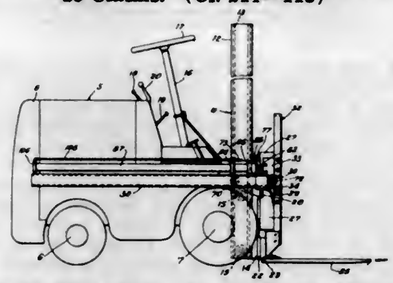
1. Washing apparatus comprising a body member having a soap receptacle therein adapted to hold a quantity of soap, means for feeding water into said body member including a tubular member extending through said body member, and a valve member mounted in said body member adjacent to one end of said tubular member and having a passageway for discharging water from said tubular member outwardly from said body member, said valve member having a portion mounted in position in said body member relative to said tubular member whereby said portion of said valve member and said tubular member define a passageway therebetween interconnecting said soap receptacle and said first mentioned passageway during a washing operation for the passage of soap from said receptacle into said first mentioned passageway, said portion of said valve member being movable into engagement with said tubular member to thereby close said second mentioned passageway.

2,590,354
DETACHABLE LATCHED ELECTRICAL PLUG AND SOCKET CONNECTION
Lee Triplett, Magna, Utah, assignor of one-third to James L. Jones and one-third to Richard A. Sweet, both of Salt Lake City, Utah
Application September 27, 1950, Serial No. 187,079
5 Claims. (Cl. 173—330)



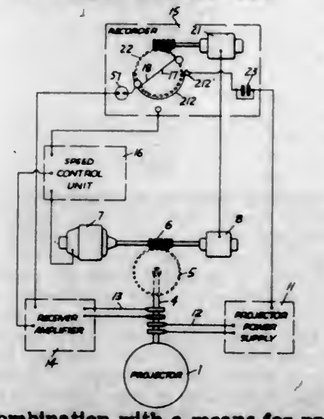
1. In combination, a fixed wall box, a median strap mounted thereon, a center plate on the strap, a pair of parallel contact bars held by the center plate, a socket member tiltably pivoted on the adjacent ends of the contact bars, said socket member being transversely slotted, a locking bar on the strap for projection into the socket member, and a plug having a pair of notched prongs insertable in the socket member and in locking engagement with the locking bar.

2,590,355
INDUSTRIAL TRUCK
George L. Turner and Fred Sherriff, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application August 6, 1947, Serial No. 766,558
15 Claims. (Cl. 214—113)



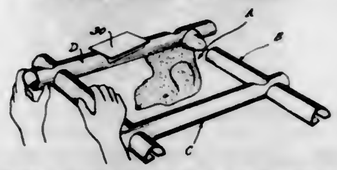
1. The combination, with the load supporting carriage of an industrial truck, of forwardly extending plate means for receiving the load to be transported, a vertical rack disposed above said plate means and having a transverse jaw member at the lower end thereof, arms secured to the sides of said rack and extending rearwardly therefrom, anti-friction guide means on said carriage mounting said arms for fore and aft sliding movement relative to said carriage, hydraulic means including a cylinder supported on said carriage and an extending piston rod directly connected to said rack, a vertically movable blade member carried by said rack, and hydraulic means carried by said rack for moving said blade into and out of clamping engagement with said jaw member.

2,590,356
ELECTRIC MOTOR SPEED CONTROL SYSTEM
Edwin E. Turner, Jr., West Roxbury, Mass., assignor, by mesne assignments, to Raytheon Manufacturing Company, a corporation of Delaware
Original application April 10, 1945, Serial No. 587,633. Divided and this application May 25, 1949, Serial No. 95,301
5 Claims. (Cl. 318—318)



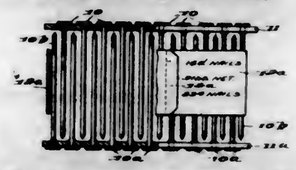
1. In combination with a means for producing electrical impulses in response to substantially periodically repeated phenomena, an electric motor, and a gaseous grid-controlled rectifier tube circuit having its anode-cathode path connected in the electric current supply path to said motor for controlling the speed of said motor including a condenser, means for impressing said impulses upon said condenser to charge the same, a vacuum tube having a control grid, means impressing the charge on said condenser upon said grid, means impressing a direct positive control voltage upon the grid of said rectifier and in opposition thereto a voltage proportional to the current flow through said vacuum tube.

2,590,357
FRAME MADE OF PAPER
Eugene W. Weiller, Philadelphia, Pa.
Application November 30, 1949, Serial No. 130,240
2 Claims. (Cl. 40—155)



1. A paper frame adapted to be adjusted to different size lithograph works comprising side members each of which have longitudinal folds, and a rounded central section which may be shipped flat, and a top and a bottom member having a longitudinal fold adjacent the sides but with transverse aligned openings near each end, said transverse openings do not completely sever the top or bottom member of the frame, and the side members being adapted to completely pass through said openings in the top and bottom members.

2,590,358
PACKAGING OF NAILS AND THE LIKE
Bill D. Williams, Evansville, Ind.
Application July 7, 1950, Serial No. 172,431
6 Claims. (Cl. 206—46)

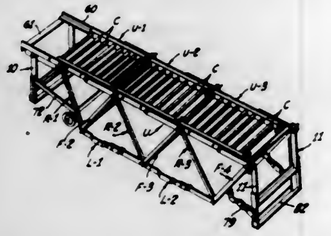


1. A nail package comprising two separate sub-assemblies, each sub-assembly comprising a supporting sheet and a group of nails having their shanks projecting in generally parallel relation through said supporting sheet and having their heads juxtaposed to one side of the sheet, the nail shanks of each sub-assembly being interpositioned with those of the other so that the tips of the nails of each sub-assembly are juxtaposed to the supporting sheet of the other sub-assembly, and a strip extending about the interpositioned nail shanks of the assembly between the said sheets and releasably binding the sub-assemblies together as a unit.

2,590,359
PORTABLE COLLAPSIBLE CONVEYER
Oscar P. N. Zopf, Oxnard, Calif.
Application October 30, 1947, Serial No. 783,182
17 Claims. (Cl. 198—113)

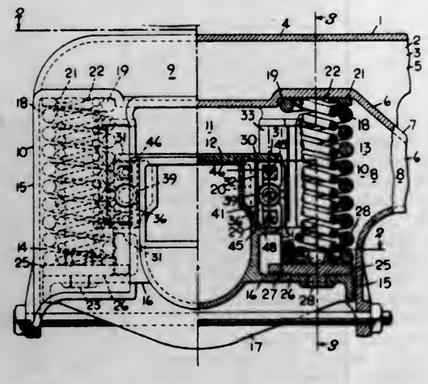
1. A collapsible conveyor which includes: a plurality of rectangular conveyor components; a

rigid member pivotally mounted on the longitudinal side of each of said components; a downwardly extending supporting member pivotally mounted on the longitudinal side of each of said components; a second downwardly extending supporting member pivotally connected to each of said rigid members; a pin pivotally connecting said first and said second supporting members; a plurality of longitudinally extending connecting members, with the ends of each end of said members being pivotally mounted on one of said pins, and being each formed of two pieces pivotally



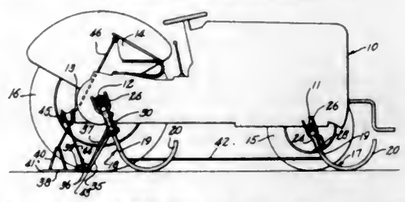
connected together to provide a breaking joint, whereby said connecting member can fold upwardly; means for holding each of said connecting members in an extended position; a plurality of conveying units, with each of said units being adapted to be removably supported in one of said conveyor components; and locking means for holding each of said conveyor components and said pair of rigid members attached thereto in an extended position when each of said connecting members is in a similar extended position whereby material can be moved over said conveying units.

2,590,360
RAILWAY TRUCK
Donald S. Barrows, Rochester, N. Y., assignor to The Symington-Gould Corporation, Depew, N. Y., a corporation of Maryland
Application November 23, 1945, Serial No. 630,230
28 Claims. (Cl. 105—224)



2. In a railway truck of the type wherein a side frame and journal box are arranged for relative vertical movement, the combination of, side frame supporting springs carried by said journal box adjacent each side thereof, a longitudinally opening housing on each side of said journal box, and snubbing means within each housing for frictionally engaging said side frame and controlling the action of said supporting springs.

2,590,361
TRACTOR JACK
Ernest A. Arnold, Monument, Kans.
Application January 30, 1948, Serial No. 5,291
7 Claims. (Cl. 254—94)



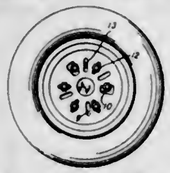
7. A jack for elevating at least the rear wheels of a tractor above a supporting surface comprising, a rocker jack positioned adjacent the rear axle of said tractor and mounted on the latter for rocking movement about said axle, a rearwardly directed lever arm having one end fixedly secured to said jack and having the other end engaging said supporting surface to support said jack in downwardly inclined relation with respect to said axle, means adapted to be connected to a power takeoff shaft of a tractor and operatively connected to said lever arm for effecting said rocking movement of said jack to thereby elevate said axle above said supporting surface, and a brace pivotally connected to the other end of said lever arm, said brace being automatically engageable with said supporting surface when said axle is elevated for maintaining the latter in its elevated position.

2,590,362
HYDRAULIC ADAPTER
John D. Bennett, Beaumont, Tex., assignor to International Derrick & Equipment Company, Columbus, Ohio, a corporation of Ohio
Application September 15, 1947, Serial No. 773,988
6 Claims. (Cl. 267—1)



1. A hydraulic adapter for suspending elevator links, swivel hooks and the like from traveling blocks comprising a cylindrical housing, a thrust bearing positioned in the lower end of the cylindrical housing, a pressure cylinder receivable in the cylindrical housing and adapted to be rotatably supported by the thrust bearing, an adapter member having a cylindrical bore receiving the lower end of the cylindrical housing and being slidable and rotatable with respect thereto, a hydraulic ram receivable in the cylindrical housing and including a pin which is secured at its lower end to the adapter member and extends upwardly thru central openings formed in the lower ends of the cylindrical housing and the pressure cylinder, a shoulder formed on the pin adjacent its upper end and slidably engaging the interior surface of the pressure cylinder, and a closed pressure cylinder formed integrally with the pin and extending upwardly therefrom, the second pressure cylinder being connected with the portion of the first mentioned pressure cylinder below said shoulder by a valved opening, the pressure cylinders being adapted to be filled with fluids and the hydraulic ram being capable of a reciprocating movement as actuated by weight applied to the adapter member and in response to the action of fluid pressure.

2,590,363
WHEEL ADAPTABLE TO DIFFERENT HUBS
Adolphus G. Adair, Fort Worth, Tex.
Application January 26, 1948, Serial No. 4,271
3 Claims. (Cl. 301—9)



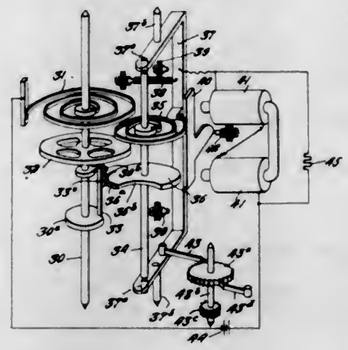
3. In a wheel for automobiles or the like, an arrangement of multiple elongated openings through the body of the wheel and wherein the length of each said slot is radially disposed with respect to the center of said wheel and whereby said wheel may be mounted on different automobile hubs having different arrangements for mounting stock wheels thereon, and projecting ribs on the inner surface of said wheel whereby the same may be spaced from the automobile hub so as to accommodate projecting rivets on the latter.

2,590,364
BOBBY PIN RECONDITIONING DEVICE
Thomas L. Adas, Chicago, Ill.
Application November 1, 1949, Serial No. 124,830
2 Claims. (Cl. 81—15)



1. A device for reconditioning bobby pins and the like comprising, a base plate having a substantially flat continuous surface, a lever pivoted adjacent an end thereof to said base plate on an axis normal to said surface and for swinging movement closely adjacent said surface, an edge of said lever adjacent said axis being formed as an arcuate cam surface of substantial width extending substantially to said continuous surface of said base and generally normal thereto, a pair of spaced abutments fixed to said base plate and extending substantially normal to said continuous surface, said abutments being spaced from said pivot axis and arranged to define, with said arcuate cam, a pocket adapted to receive the U-bend of a sprung bobby pin with its leg portions lying flat against said continuous surface, said abutments having work-engaging portions lying respectively in the two sides of a right angle, one of the sides of which passes through the pivot axis, said portions being substantially equidistant from the vertex of said right angle.

2,590,365
OSCILLATORY TIMING MECHANISM
Clare Anderson, Kinnelon, N. J.
Application February 28, 1945, Serial No. 580,212
12 Claims. (Cl. 58—28)



5. A timing mechanism comprising two synchronous oscillatory systems, and a source of energy for maintaining the systems in oscillation, each of said systems having the periphery of one of its oscillatory parts engaging the periphery of one of the oscillatory parts of the other system by a rolling engagement for thereby transferring energy between the systems, one of said parts having a resilient support and thereby movable in a radial direction toward and from its axis when engaged and disengaged by the other of said parts.

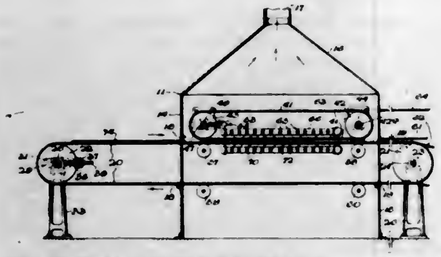
2,590,366
WELL CONDUCTOR PERFORATING GUN
Wilmerth R. Atwood, Odessa, Tex.
Application August 12, 1946, Serial No. 689,935
8 Claims. (Cl. 164—0.5)



1. A well casing perforating gun including, a gun body adapted to be lowered in a well bore, firing impulse conducting means extending axially of the body, means for suspending additional gun bodies from the uppermost body, each gun body having impulse conducting means extending axially thereof and intersecting a plurality of bores extending transversely of the bodies, a tapered sleeve disposed within each bore in vertical alinement with the conducting means, said sleeve having an annular groove about its cir-

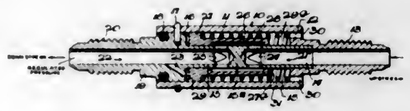
cumference, the bodies having a mating groove formed in each of the bores, said grooves registering with the conducting means to make provision for conducting a firing impulse around the sleeve and to a lower sleeve, ports in the sleeves for conducting a firing impulse to the interior thereof, a projectile disposed within the sleeve, said projectile having an annular groove and a longitudinal groove for conducting a firing impulse to the rearward portion of the bore, a powder charge disposed within said rearward portion of the bore, a removable plug for holding said charge in place, and a removable barrel positioned in the forward end of the bore for holding the sleeve in place.

2,590,367
STERILIZER FOR FEED BAGS AND OTHER ARTICLES
Andrew J. Balshi, Catawissa, Pa.
Application February 2, 1949, Serial No. 74,099
1 Claim. (Cl. 21—80)



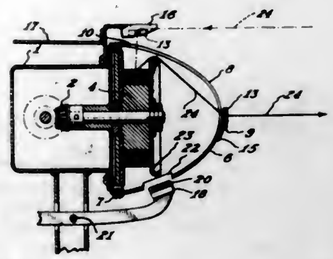
A sterilizer for cloth bags comprising substantially vertical walls and an upwardly converging roof surmounting said walls, said walls and roof defining a chamber within which the bags are sterilized, a vertical outlet surmounting said roof for the discharge of vapor moving upwardly within the chamber, said walls having openings on opposite sides of the chamber, a foraminous belt conveyor in the chamber having horizontal upper and lower reaches projecting through said openings, said reaches extending beyond said openings on the exterior of the chamber, means on the exterior of the chamber for supporting and driving said belt conveyor and for maintaining constant tension therein, a portion of the upper reach on the exterior of the chamber being sufficiently long to support a cloth bag to be sterilized in a flattened spread out position, a second foraminous belt conveyor having upper and lower reaches wholly within said chamber and above said openings and supported directly above the first-mentioned belt conveyor, means for maintaining constant tension in said upper belt conveyor and for driving it at the same linear speed as the lower belt conveyor, the upper reach of the lower belt conveyor and the lower reach of the upper belt conveyor being separated by a space corresponding substantially to the thickness of the bags to be sterilized, a pair of parallel banks of horizontal pipes extending transversely of the belt conveyors, the pipes of one bank having each rows of downwardly directed discharge openings disposed directly above the lower reach of the upper belt conveyor and the pipes of the other bank having each rows of upwardly directed discharge openings directly below the upper reach of the lower belt conveyor, and means for transmitting a sterilizing fluid under pressure into all said pipes for discharge through said openings to bags in the said space between the reaches of the belt conveyors.

2,590,368
VALVE
Robert F. Beck, Paterson, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application March 6, 1945, Serial No. 581,250
7 Claims. (Cl. 50—35)



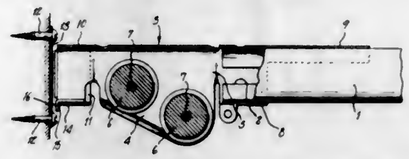
1. A through-flow throttling valve including a chamber, an inflow passage, an outflow passage, a port-opening for each passage symmetrically disposed relatively to the center of said, chamber, a valve means dividing the chamber and cooperating with the port openings, apertures respectively connecting the separate parts of the chamber with one of the passages and with a source of reference pressure, and a spring coacting with the valve means to oppose the differential pressure across the valve means, the spring and the valve means operating as a unit which may be axially reversed end for end between one position and another to maintain the spring and the valve means in given relation to each other characterized in that the valve means and ports are constructed and arranged to provide regulation of the pressure in the aperture-connected passage in a positive-pressure sense when said unit is in one of said positions and in a negative-pressure or suction sense when said unit is in the other of said positions.

2,590,369
BAIT CASTING REEL
Francis S. Beeler, Hamilton, Ohio
Application April 24, 1948, Serial No. 23,034
4 Claims. (Cl. 242—84.5)



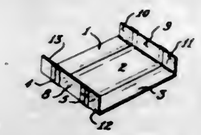
1. A bait casting reel comprising a line carrying spool having a flange over which the line is adapted to slip in casting, a shell enclosing said spool and having a line passing slot therein, one terminal of which is in axial alignment with said spool and the other terminal aligned normal to the spool core and means adapted to selectively confine a fishing line passing through said slot to one terminal or the other, and means for rotating the spool, said line confining means comprising a bail pivoted to said shell and having a line passing grommet therein positioned to ride along said slot and a releasable latch for holding said bail with the grommet normal to the spool core and a spring urging said bail to the other end of said slot.

2,590,370
TRAVERSE CURTAIN SUPPORT AND PULLEY HOUSING
Ralph E. Bell, Sturgis, Mich., assignor to Kirsch Company, Sturgis, Mich., a corporation of Michigan
Application October 23, 1951, Serial No. 252,725
6 Claims. (Cl. 160—345)



4. A traverse curtain support comprising a hollow curtain rod having a longitudinally-extending lateral slot and a housing having an open end and having a socket substantially surrounding said open end and fitting over and engaging the bottom of the end of said rod and having a bearing member extending beyond said socket at the upper portion only thereof and bearing on the top surface of said rod only leaving the lateral slot thereof uncovered.

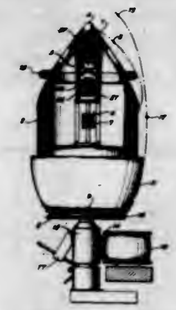
2,590,371
KNOCKDOWN BOX
Robert Morris Bergstein, Cincinnati, Ohio
Application April 2, 1947, Serial No. 738,826
3 Claims. (Cl. 229—30)



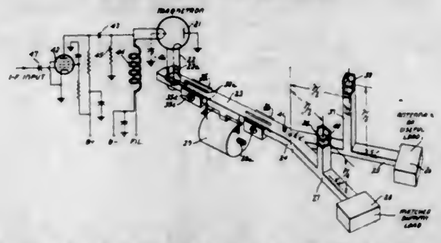
1. A box structure formed of three separate panels of plastic sheeting material which is nonscorable, said sheeting panels having their end portions bent so that the panels are substantially U-shaped in longitudinal section and permanently set in the bent condition, said panels being hingedly articulated together along the bases of the U's by means of narrow strips of flexible hinging material secured to marginal edge portions of adjacent panels, the bases of the outermost two of said panels lying at substantially right angles to the base of the intermediate panel, the bent end portions of said panels lying in face-to-face contacting relationship and secured to each other.

2,590,372
TWIST BARRIER FOR DOUBLE TWIST SPINDLES
Rudolph S. Biey, Milligan College, Tenn., assignor to North American Rayon Corporation, New York, N. Y., a corporation of Delaware
Application February 3, 1950, Serial No. 142,133
20 Claims. (Cl. 57—58)

1. In a double twist spindle including a device for tensioning yarn or thread, comprising in combination a thread passage extending axially of said spindle, means comprising two members arranged to contact with each other and to engage said yarn or thread between them at a point within said spindle after the tension has been applied to the yarn, said members constituting a barrier to prevent the twist from running back to the tensioning device, the portions of said members adjacent to each other being of magnetic material and one of said portions being magnetized so that said members are urged toward each other.



2,590,373
MODULATION SYSTEM AND METHOD
William E. Bradley, Springfield Township, Montgomery County, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application November 20, 1947, Serial No. 787,043
16 Claims. (Cl. 332—5)

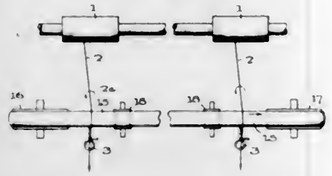


1. In a modulating system, an oscillator having a tank circuit, means responsive to a signal of modulated frequency for controlling said oscillator in a manner to produce in said tank circuit a plurality of frequency components, at least one of which tends to be frequency-modulated in some degree in substantial accordance with the modulation of said signal and at least another of which is of substantially greater magnitude than said one component, a resonant circuit coupled to said tank circuit, said resonant circuit being tuned to substantially the mean frequency of said one component and being operative to reduce the tendency of said one component to be frequency-modulated and to impart to said other component frequency variations according in some degree to the modulation of said one component which would have existed in the absence of said reduction, and means for deriving from said oscillator an output signal which varies in frequency in accordance with the frequency variations of said other component.

2,590,374
YARN TWISTER FOR SPINNING FRAMES
Hugh M. Brown, Clemson, S. C., assignor to Clemson Agricultural College of South Carolina, Clemson, S. C., a corporation of South Carolina
Application October 7, 1949, Serial No. 120,148
2 Claims. (Cl. 57—51)

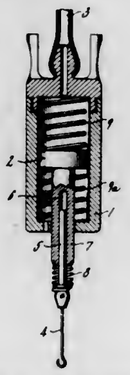
1. In a textile machine in which a plurality of parallel strands of yarn are delivered each from a pair of delivery rolls to an individual thread guide spaced from said rolls, the combination of a twisting device for applying false twist to said

strands at a point between said pairs of rolls and said thread guides, said twisting device including an endless belt arranged below said strands and extending transversely under each strand, said belt being positioned so that the outer surface of the upper reach thereof engages each strand on the underside thereof and deflects each strand



upwardly from its normal path of movement between its pair of rolls and its individual thread guide, whereby each strand is held in frictional engagement with the surface of said belt by the normal tension of the strand and false twist is applied to the strand by the rolling of said strand over the surface of said endless belt.

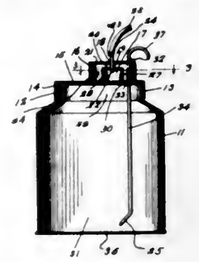
2,590,375
MENDING NEEDLE STRUCTURE
Henri Bueche-Rossé, Court, Jura Bernois, Switzerland
Application October 26, 1950, Serial No. 192,309
In Switzerland October 28, 1949
3 Claims. (Cl. 66—1.5)



1. A pneumatically driven mending needle comprising a piston including a cylinder therefor, a piston rod rigidly connected to said piston and provided with a longitudinal bore, a mending needle supporting member axially movable within said bore and relative to said piston, and spring means interconnecting said supporting member and said piston rod.

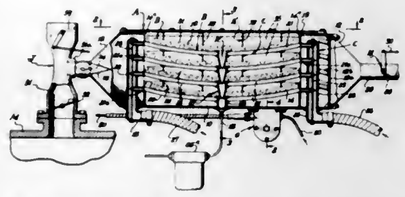
2,590,376
MINNOW TRANSPORT CONTAINER
Calvin C. Campbell, Colorado City, Tex., assignor of one-half to Laurence E. Candler, Colorado City, Tex.
Application October 11, 1945, Serial No. 621,818
1 Claim. (Cl. 43—56)

In combination with a cover for a minnow bucket, a dome secured to said cover, a smaller dome secured to said cover and positioned within the first dome, said domes having aligned openings for the reception of a vacuum tube, the first dome and the cover having aligned openings for an air inlet tube, and the smaller dome and cover having communicating open-



ings, whereby air passing from the air inlet tube underneath the cover may pass through said communicating openings to the vacuum tube.

2,590,377
CARBURETOR
Joseph H. Cater, Los Angeles, Calif.
Application June 11, 1946, Serial No. 675,930
17 Claims. (Cl. 261—15)

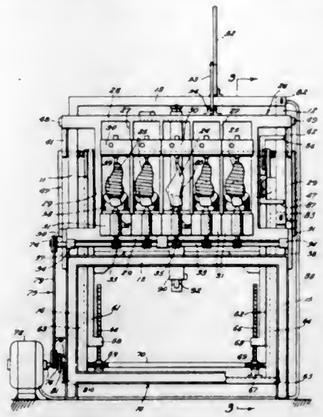


17. A carburetor including, a body having an air inlet and a delivery opening, a plurality of vertically spaced cupped trays in the body, means for heating the trays, an evaporator pad corresponding in plan configuration with each tray and carried on and in contact with the top surface of each tray, there being a space above each pad, fuel distributing means supplying liquid fuel to the pad and trays, fuel supply means admitting fuel to the distributing means, a main shut off for the air inlet, means controlling the delivery opening, and overflow means draining surplus liquid from the trays including drain nozzles in each tray, the nozzle in one tray being above and in alignment with the nozzle in the next lower tray and discharging one into another to conduct fluid away from the trays to a drain pipe the spaces above the pads being in communication with the air inlet and delivery openings and conducting air between said openings.

2,590,378
TURNING LATHE FOR SHOE LASTS
George Clausing, Portsmouth, Ohio, assignor to Vulcan Corporation, Portsmouth, Ohio
Application December 26, 1946, Serial No. 718,535
3 Claims. (Cl. 142—15)

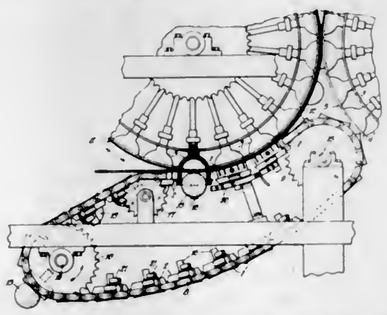
1. In a lathe for turning lasts a base, a model last and work piece carrying frame, means for mounting the frame on the base in a vertical position for substantially horizontal, reciprocating movement, a work cutter and copying disc table mounted on the base for vertical movement in a plane parallel to, and spaced from the frame, a guide member fixed to the table, a copy disc platform slidably mounted on the member for vertical movement relative to said table, a copying disc block on the said platform, and a

differential, length grading connection between the member and the platform, and means for



yieldably urging the model last and work piece carrying frame toward the table.

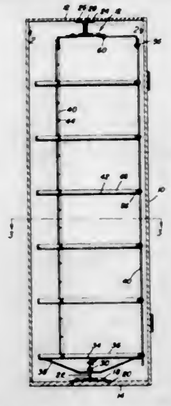
2,590,379
APPARATUS AND METHOD FOR WRAPPING ARTICLES AND SEVERING THE WRAPPED ARTICLES FROM WEBS
William S. Cloud, Wilmette, Ill.
Application February 16, 1949, Serial No. 76,808
30 Claims. (Cl. 18—1)



13. Apparatus for severing wrapped articles from a web of elastic film passing around a drum in elastically stretched condition including a plurality of rims shaped to conform to the web on the drum around the articles and a sagging conveyor carrying the rims successively into position surrounding sucessive wrapped articles and clamping the web against the drum, and holding it so clamped to hold the material of the web against contraction, and means for severing the wrapped articles from the web while the surrounding material is so held.

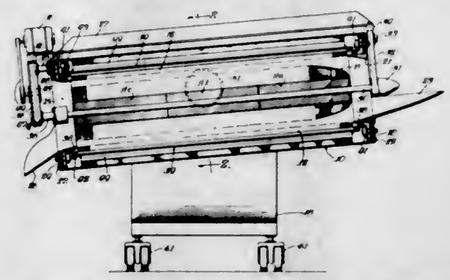
26. The method of wrapping articles comprising enclosing said articles successively between two strips of elastic thermoplastic film by pressing pockets in said film while holding the film outside of the pockets, and bringing successive pairs of facing pockets together around the articles, thus forming a common web; and applying a hot member to the webs to sever the successive wrappers from the common web while holding the common web continuously between the points of severance and the article to prevent the pockets from snapping away from each other.

2,590,380
REVOLVING ANTPROOF COOLER SHELF
Horatio F. Coykendall, Redwood City, Calif.
Application May 10, 1948, Serial No. 26,105
1 Claim. (Cl. 312—305)



In combination with a cabinet having a top wall and bottom wall, an insect-proof shelf unit comprising a dished base plate mounted on the bottom wall and having an upstanding rod, a supporting shelf rotatably mounted on the rod, anti-friction means disposed between said rod and shelf, a plurality of vertical standards carried by the supporting shelf, a plurality of horizontally disposed shelves adjustably secured to the standards, a top dished supporting plate having radially extending angle irons adjustably secured to the upper ends of the standards for vertical adjustment with respect to said top supporting plate, said angle irons being adjustably carried by said top supporting plate, an upstanding tube carried by the plate, a member secured to the top wall of the cabinet, and a downwardly extending rod carried by the member and received in the tube.

2,590,381
CANDY CLEANING MACHINE
Hugh W. Currie, Skokie, Ill., assignor to Currie Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 5, 1949, Serial No. 125,685
18 Claims. (Cl. 107—44)



1. In a candy cleaning machine of the type adapted to remove a thin coating of finely divided powdered material such as starch or the like from molded candies; a hollow drum, a ground engaging pedestal, a hollow trunnion structure connecting said drum to said pedestal, a central rotatable brush structure longitudinally disposed within the hollowed interior of said drum, an annular brush structure surrounding said central brush and positioned inside said drum and dis-

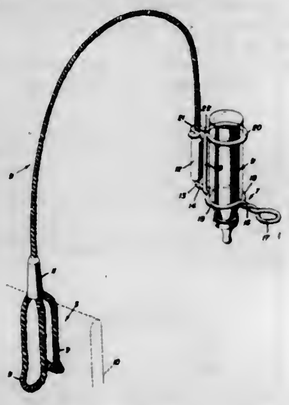
posed in concentric relation with the interior surface thereof, and driving means disposed at one end of said drum for rotatably driving said two brushing structures whereby said thin coating of powdered material may be removed from said candy being fed between and contacted by said two brushing structures.

2,590,382
STOOL
Ludwig P. Danielson, Evanston, Ill.
Application April 9, 1949, Serial No. 86,464
7 Claims. (Cl. 155—88)



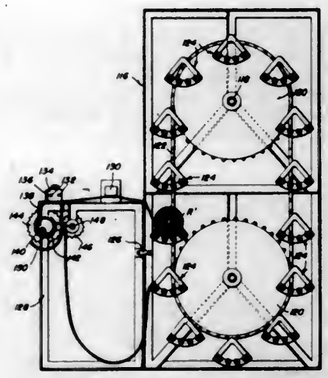
6. A stool including in combination a base comprising floor engaging members, a seat having an additional floor-engaging member depending therefrom, said seat being mounted on said base and said additional floor-engaging member being of sufficient length to engage the floor upon said seat being occupied, and biasing means mounted on said base for automatically raising said seat and said additional floor-engaging member upon said seat being vacated.

2,590,383
NURSING BOTTLE HOLDER
Robert M. Dean, Auburn, N. Y.
Application December 21, 1948, Serial No. 66,485
1 Claim. (Cl. 248—104)



A nursing bottle holder fashioned from a single length of malleable wire, the latter formed into a bendable hand-set elongated reach arm provided at one end with clamping and retaining jaws applicable to a relatively fixed support, said arm being formed at its opposite end into a single strand, the latter being disposed laterally to said arm and being bent upon itself into a finger-loop and then bent adjacent to said loop into opposed semi-circular bends, the latter being diametrically opposite and in a plane with each other, as well as in a plane with said finger-loop and collectively defining a closed bottle embracing ring, the end portion of said strand being then directed at right angles to said ring, at a point diametrically opposite to said finger-loop, and defining a brace, the free end of the latter being laterally directed and formed into a split ring in spaced parallelism with said first named ring, and the terminal of said strand being finally formed into a latching hook to engage the arm, the latter being in a plane with the split ring and at right angles to said brace.

2,590,384
MAGAZINE DISPLAY AND DISPENSING RACK FOR ROLLED GOODS
Robert C. Dent, David P. Pike, and Paul V. Pike, Caruthersville, Mo.; said Dent assignor of one-third, said David P. Pike one-twelfth, and said Paul V. Pike one-twelfth to Myrtle D. Dent, Caruthersville, Mo.
Application November 2, 1948, Serial No. 57,862
3 Claims. (Cl. 242—55.4)

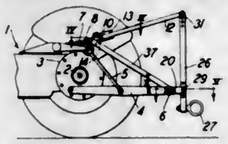


1. In a magizine display and dispensing rack of the type in which a plurality of rolls of goods are supported, dispensing means for rolling a predetermined length of goods selected from the goods on the rack comprising a pair of winding tubes mounted adjacent opposite ends of the rack to move longitudinally along an axis which lies parellel to the axis of a roll of goods in the rack into operative and inoperative positions, each tube having a goods receiving slot extending longitudinally thereinto from one end, and means to rotate said tubes in unison about the axis along which they move longitudinally when said tubes are in operative positions.

2,590,385
IMPLEMENT HITCH FOR TRACTORS
Guy L. Devereaux, Edmore, Mich.
Application May 24, 1950, Serial No. 163,958
3 Claims. (Cl. 280—33.44)

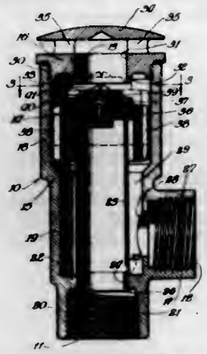
1. In a rearwardly extending hitch for a tractor, said tractor having a draw bar mounted to said tractor below the rear axle thereof, said hitch comprising: a substantially vertical lever element; a link element having a rearward end and a forward end; at a point on said tractor

spaced substantially above said rear axle, means for attaching the forward end of said link element to said tractor for pivotal movement laterally of said tractor; means for pivotally attaching said link element to said lever element adjacent the upper end of said lever element;



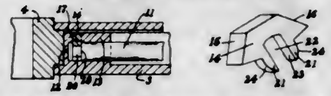
an implement hitch mounted to the lower end of said lever element; said lever element adjacent its lower end and above said implement hitch anchored to said draw bar for vertical pivotal movement about said draw bar and lateral sliding movement along said draw bar.

2,590,386
VACUUM BREAKER
August C. Dobrick, Chicago, Ill., assignor to The Imperial Brass Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 29, 1947, Serial No. 751,255
3 Claims. (Cl. 251—118)



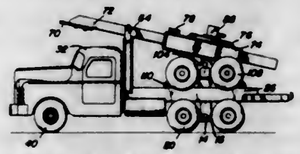
1. A vacuum breaker comprising a casing having a hollow generally cylindrical single main part and a single-piece closure receivable in one end of said main part, said main part having a liquid inlet formed in the end thereof opposite said closure and a liquid outlet opening through the side near the inlet end, a tube extending longitudinally within said casing communicating at one end with the inlet and terminating at the other end beyond the outlet, said tube having a diameter smaller than the internal diameter of said casing to provide an annular passage around said tube, said closure having a longitudinal passage communicating at its outer end with atmosphere and terminating at its inner end in an annular valve seat disposed opposite and spaced axially from the inner end of said tube, and a valve of the float type comprising an inverted relatively deep cup-like member operable in one position to project over the inner end of said tube and seat on the end of said tube to break communication between the outlet and the inlet, circumferentially spaced, radially outwardly projecting elements on said cup-like member forming means for loosely guiding said valve in its movements, a composition disk carried by the closed end of said cup-like member for seating on the valve seat formed by said closure, and a second disk overlying said first mentioned disk including means for retaining both disks on said cup-like member, said second disk having a maximum diameter smaller than the internal diameter of the valve seat formed on said closure to be receivable therein and having a beveled peripheral edge serving as cam means operable in the event said valve is not precisely centered to engage said valve seat formed on said closure to effect proper positioning of said valve, said projecting elements and the beveled peripheral edge cooperating to prevent tilting of the valve and to accurately guide and seat said valve.

2,590,387
REVERSIBLE RATCHET WRENCH
John S. Dodge, Exeter, N. H., assignor to Lowell Wrench Company, Worcester, Mass., a corporation of Massachusetts
Application December 1, 1948, Serial No. 62,953
1 Claim. (Cl. 81—62)



A reversible ratchet wrench having a body presenting a handle portion at one end and a socket-receiving portion at the other end, a socket member rotatable in the socket-receiving portion, two oppositely disposed spring pressed pawls cooperating with the socket member, a shaft extending longitudinally of the handle portion and having a bearing therein at each end thereof, said shaft having two oppositely disposed notches adjacent to but separated from the inner end thereof and which form between them a neck portion having flat parallel sides, a pawl-reversing member having two legs forming between them an open ended slot in which the neck portion of the shaft is received, said body having a slot in which the pawl reversing member is received, said pawl-reversing member being removable from or replaceable on said neck portion when the shaft has been turned into a position midway between its two extreme positions and while it is still in its operative position in an axial direction.

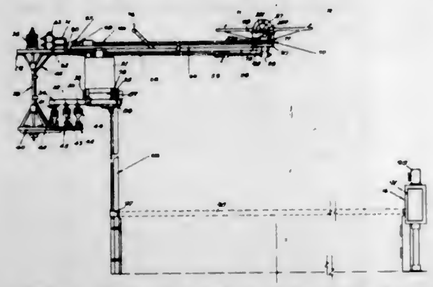
2,590,388
TOY LOGGING TRUCK AND TRAILER
Enno J. Dornath, Coquille, Oreg.
Application October 26, 1949, Serial No. 123,552
1 Claim. (Cl. 280—33.2)



A combination of a logging truck comprising a truck body supported by a truck chassis with a trailer comprising a trailer body supported by a wheeled trailer chassis, log supporting means pivotally secured to said truck body and to said trailer body, said log supporting means being adapted to pivot relatively to the angular displacement of the truck relative to the trailer, said log supporting means comprising U-shaped members each having parallel end walls and a central connecting transverse member and curvilinear retainers terminally connected to the upper end of said end walls and to the central portion of said transverse member, a pair of spaced parallel cross bars transversely secured to said truck

body on opposing sides of said log-supporting means, said chassis of said trailer being positionable over said log supporting means secured to said truck body, the wheels of the chassis of the trailer being engageable and supportable by said cross bars to substantially retain the trailer from movement relative to said truck, and means secured to said truck body at the forward portion thereof for supporting the tongue of said trailer.

2,590,389
TIME RECORDING APPARATUS FOR RACE TRACKS
Douglas J. Doyle, Chicago, Ill.
Application August 23, 1946, Serial No. 692,549
6 Claims. (Cl. 95—86)



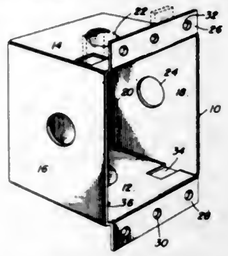
1. In a time recording apparatus for race tracks, an elevated train track along one side of the race track, a carrier movable upon the elevated track, a supporting beam in the form of a lever mounted upon the carrier and projecting over the race track at one side and beyond the elevated track at the other side, a camera and means for rotatably supporting it at the race track end of the lever in front of contestants on the track, a contact rail extending from the lower side of the elevated track and contact means extending from above the adjacent end of the lever to a position below and engaging the contact rail to hold the said lever and the camera in position extending over the race track.

2,590,390
TREATMENT OF WOOL WITH N-CHLORINE COMPOUNDS
Christopher Earland, John Leggett Bailey, and Dick Carter, Leicester, England, assignors to Wolsey Limited, Leicester, England, a British company
No Drawing. Application June 5, 1948, Serial No. 31,408. In Great Britain June 24, 1947
9 Claims. (Cl. 8—127.6)

1. A process for reducing the tendency of textile materials consisting at least partly of wool to shrink, which comprises immersing a textile material consisting at least partly of wool in an aqueous solution containing a chlorine compound selected from the group consisting of chloramides and chlorsulphonamides which do not tend to yield chloramines in cold acid solutions, said aqueous solution having a pH not greater than 2 and a chloride ion concentration greater than 0.3 N.

2,590,391
ELECTRIC SAFETY WALL BOX
Frank R. Elmore, Borger, Tex.
Application August 13, 1948, Serial No. 44,057
1 Claim. (Cl. 220—3.6)

An electrical outlet wall box comprising a back wall, upper and lower walls having vertical sides connected therebetween and an open front end, oppositely directed vertically projecting flanges extending from the front edge of said upper and lower walls, said flanges lying in the same plane and being perpendicular to said upper and lower walls, horizontally spaced vertically aligned apertures in said upper and lower walls, said apertures disposed adjacent said sides and flange,

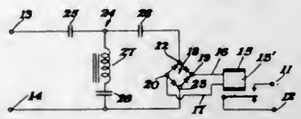


U-shaped brackets having elongated flat central web portions and outwardly projecting leg members lying in a plane of the web portions, the apertures in said upper and lower walls adjustably receiving said legs whereby said legs are in parallel disposition relative to said flanges, aligned apertures in each of the adjacent flanges and bracket legs and means for securing a wall board between said legs and flanges.

2,590,392
FLEXIBLE JOINT FOR PIPES CARRYING INTERNAL FLUID PRESSURE
Geoffrey Bertram Robert Feilden, Lincoln, England, assignor to Ruston & Hornsby Limited, Lincoln, England, a British company
Application April 26, 1950, Serial No. 158,232
In Great Britain April 29, 1949
2 Claims. (Cl. 285—90)

2. For connecting two rigid pipe elements end to end, a flexible joint comprising a fluid tight, flexible bellows connected to each pipe element and an articular structure interconnecting the pipe elements externally of the bellows and comprising rigid elements, hinges connecting said elements and spring-loaded elements associated with said hinges and bearing resiliently on the corrugations of the bellows.

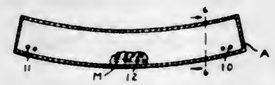
2,590,393
FREQUENCY RELAY
William Few and John D. Sauter, Cleveland Heights, and William F. Szabo, Cleveland, Ohio, assignors to The Clark Controller Company, Cleveland, Ohio, a corporation of Ohio
Application September 22, 1948, Serial No. 50,636
1 Claim. (Cl. 175—320)



Relay apparatus responsive to alternating-currents above a predetermined band of frequencies comprising in combination a pair of

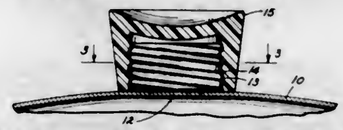
apparatus input terminals, a full-wave rectifier having input and output terminals, a relay having a winding for direct-current connected to the output terminals of said rectifier, and a high-pass filter comprising two serially connected capacitors connected between one of said apparatus input terminals and one of said rectifier input terminals and an inductor and a capacitor in serial connection between the junction of the said two serially connected capacitors and the remaining apparatus input terminal, the constants of said high-pass filter being chosen for passing frequencies exceeding the maximum frequency of said band of frequencies for which the relay apparatus is designed.

2,590,394
FLAT TIRE INDICATOR
Joseph Franks, Lawrence, Mass.; Maurice Young, Boston, Mass., executor of said Joseph Franks, deceased, assignor to said Maurice Young, as trustee
Application June 11, 1949, Serial No. 98,425
5 Claims. (Cl. 200—52)



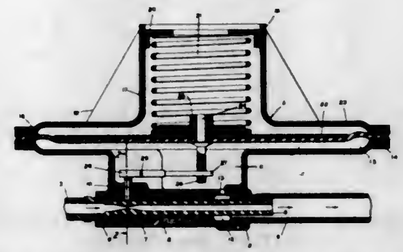
1. In a liquid operated electric switch, an elongated tubular outer container having closed ends; an electric conducting liquid filling the lower portion of said container to a predetermined level; an elongated tubular inner container of less diameter and less length than said outer container, having closed ends, each with a small liquid aperture at the bottom and a small aperture at the top thereof, said inner container being mounted, above the level of the liquid, in the upper portion of said outer container to form end chambers in opposite ends of said outer container and a pair of electric contacts, located in the inner container, arranged to complete an electric circuit through said switch when in contact with said liquid.

2,590,395
COVER KNOB
Clifford W. Fry, Wooster, Ohio, assignor to The Buckeye Aluminum Company, Wooster, Ohio, a corporation of Ohio
Application October 13, 1949, Serial No. 121,121
2 Claims. (Cl. 16—118)



1. A knob assembly for a cooking utensil comprising a thin walled ductile metallic cup of a depth substantially equal to the diameter thereof, a screw thread rolled in the side wall of said cup, the base of the cup being adapted for affixation upon a cooking utensil, a moulded non-metallic hollow knob, a moulded internal screw thread therein of complementary configuration to the threads on the cup, said knob being screwed upon said cup and being adapted for abutting engagement with the face of a cooking utensil to effect impingement of the threads in the cup and knob, the walls of the cup and knob defining a void constituting an insulating medium for the knob.

2,590,396
REGULATOR
Owen L. Garretson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application December 26, 1945, Serial No. 637,165
2 Claims. (Cl. 50—26)

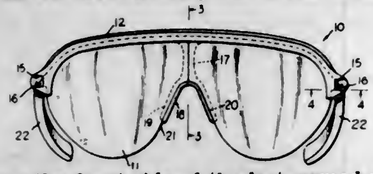


1. A regulator in which freezing is inhibited, comprising in combination a metal, heat conducting body having a conduit therein, said conduit having an upstream inlet end adapted to be connected to a supply of fluid under pressure, and a downstream outlet end adapted to be connected to a dispensing pipe, said conduit comprising in part an orifice member made entirely and solely of a flexible resilient heat insulating tube which is axially longer than its external diameter, whereby heat travels slowly from the upstream to the downstream end of said member, the remainder of said conduit being of greater internal diameter than the internal diameter of said orifice member, means securing the upstream end of said orifice member sealed to the walls of said conduit so the entire flow in said conduit passes through said orifice member, the remaining major portion of said orifice member being loose in said conduit, said heat conducting body contacting at least the upstream half of said orifice member, whereby heat is supplied thereto more readily than said heat travels to the downstream end of said member, the walls of said body throughout said contact being thicker than the wall of said orifice member in order to furnish a reservoir of heat therefor, at least the downstream third of said orifice member being out of contact with the walls of said conduit whereby cooling at the downstream end of said member is not in contact with said body and room for expansion of said downstream end is provided so that ice formed therein will blow out upon such expansion, and means to constrict and release said orifice member at a point adjacent the upstream end of said member biased to release said member and responsive to pressure in said conduit downstream of said orifice to constrict said member whereby the pressure of said outlet end is regulated.

2,590,397
EYESHIELD
Fred G. Gay, Jr., Greece, and Donald J. McCulloch, Rochester, N. Y., assignors to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 31, 1951, Serial No. 229,008
3 Claims. (Cl. 2—14)

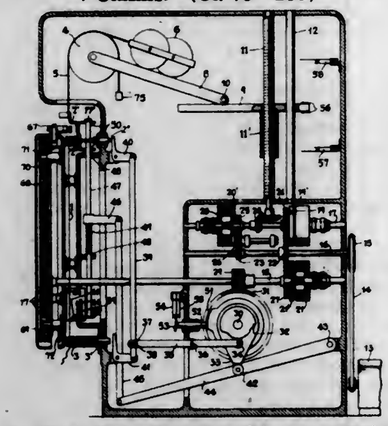
3. In an eyeshield having an integral lens member provided with a re-entrant portion adapted to fit over the wearer's nose and a bar extending along the top edge of the lens member, the combination of a bridge element positioned behind the lens member and depending from the bar, the

lower end of the element having an inverted U-shaped portion adapted to straddle the wearer's nose, nose engaging surfaces extending rearwardly from the last-named portion, and a rabbeted



edge on the front side of the last-named portion on which is seated the re-entrant portion of the lens member.

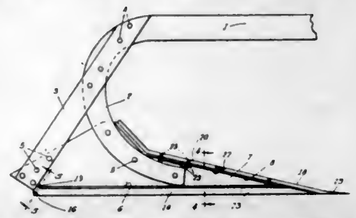
2,590,398
THREAD FEEDING DEVICE FOR THREAD TESTING MACHINES
Walter Gegenschatz, Uster, Switzerland, assignor to Zellweger A. G. Apparate-und Maschinenfabriken Uster, Uster, Switzerland, a corporation of Switzerland
Application April 4, 1951, Serial No. 219,191
In Switzerland April 14, 1950
7 Claims. (Cl. 73—160)



4. A thread testing machine comprising a source of thread to be tested, thread tension measuring means including a thread clamp for supporting a length of thread to be tested, thread supply means including a chain, rotatable means supporting said chain to form a loop situated in a plane parallel to the length of therad to be tested, drive means connected with said rotatable means for moving the chain around the loop formed thereby, a thread gripper connected with and extending laterally of said chain and travelling in a loop extending around said clamp and being adapted to receive the thread extending from said source and to lay it into said clamp, and stationary means disposed in the path of said gripper and adapted to close it after it has received a thread and to open it after it has laid the thread into said clamp.

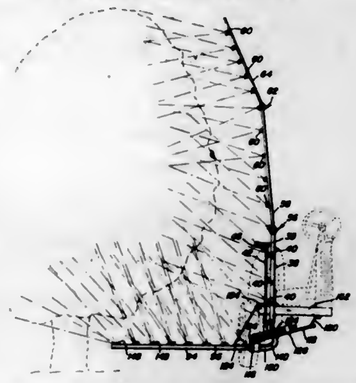
2,590,399
MOLE CHISEL PLOW ATTACHMENT
Robert E. Gilbert, Gillette, Wyo.
Application July 13, 1949, Serial No. 104,525
1 Claim. (Cl. 97—78)

In a mole plow, the combination with a horizontally disposed base which is rectangular in cross section and a side wall extending longitudinally of the base and fixed thereon and said side wall having a transversely arranged attaching plate secured to the upper edge of the side wall at an acute angle to the base and terminating in a rear obtuse angular portion and forming a shoulder adjacent the front of the base, of a channel shaped wear shoe having a declining flat toe plate and fitted over the base, means for securing the rear end of the shoe to the base while the toe plate fits over the front end of the



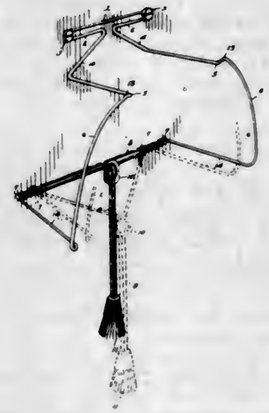
base and abuts the shoulder formed by said attaching plate, a sectional angular mole plate having a cutting edge in front of the toe plate and adjoining lapped ends mounted on the attaching plate and a beam having a curved shank bolted to the base in engagement with the opposite ends of said rear obtuse angular portion and a diagonally extended brace uniting the shank with the base.

2,590,400
TREE SPRAYER
Theodore Edward Gollnick, Fort Pierce, Fla., assignor of fifty per cent to Helen Gollnick, Fort Pierce, Fla.
Application June 6, 1949, Serial No. 97,358
7 Claims. (Cl. 299—41)



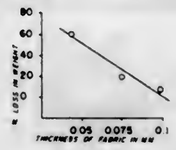
7. A mobile spray apparatus comprising a vehicle having a storage tank and a pump for delivering spray material therefrom, a feed line extending from said pump, a substantially vertical conduit having nozzles and secured to one side of said vehicle, a conduit extension located on said side of said vehicle and pivotally secured to said conduit and having nozzles, a discharge pipe with discharge outlet members therein, means securing said pipe to the vehicle for pivotal movement in a substantially horizontal plane and for pivotal movement in a substantially vertical plane, a normally horizontal spray boom operatively connected with said securing means and located on said side of said vehicle, springs opposing the pivotal operation of said pipe, an auxiliary spray line carried by said boom, said auxiliary spray line having nozzles, and a rearwardly extending shield fixed to said boom to form a baffle to protect said nozzles.

2,590,401
HAT HOLDER
Reed Druley Gordon, Detroit, Mich.
Application April 17, 1947, Serial No. 742,158
2 Claims. (Cl. 211—32)



1. A hat holder, comprising a spring wire form having a cross arm with inturned ends, said ends being below and in the same vertical plane as the cross arms, diverging inclined sections connected to the ends, outwardly extending horizontal parallel portions connected to the inclined sections, downwardly extending outwardly bowed sections connected to said outwardly extending portions, the lower ends of said bowed sections being bent back to provide inwardly extending parallel arms, the ends of said inwardly extending arms being curled to form eyelets, and a cord passing through said eyelets.

2,590,402
LIGHTWEIGHT POLYMETHYLENE TEREPHTHALATE FABRIC PRODUCED BY ALKALI TREATMENT
John D'Arcy Henry Hall, Welwyn Garden City, Bertram Pusey Ridge, Potters Bar, and John Rex Whinfield, Hampstead, London, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application August 8, 1949, Serial No. 109,078
In Great Britain August 13, 1948
5 Claims. (Cl. 8—115.5)

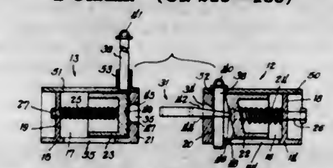


1. A process for producing improved light weight fabrics comprising immersing a fabric composed of a highly polymerised polymethylene terephthalate having 2 to 10 inclusive carbon atoms in the polymethylene chain with an aqueous solution of an alkali selected from the group consisting of caustic soda and caustic potash whereby the weight of the fabric is uniformly reduced, said fabric being immersed in said aqueous solution for a length of time such that a thin, lightweight fabric is obtained.

2,590,403
PREPARATION OF AMMONIUM PENICILLIN
Knud Hallas-Møller, Holte, and Karl Petersen, Copenhagen, Denmark, assignors to Novo Terapeutisk Laboratorium A/S, Copenhagen, Denmark, a firm
No Drawing. Application June 17, 1948, Serial No. 33,666
11 Claims. (Cl. 260—239.1)

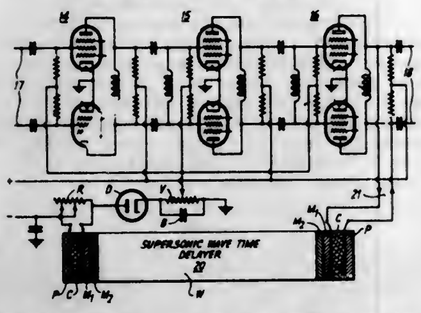
1. In a process for producing ammonium salts of penicillins, the steps which comprise, adding a water-miscible aliphatic ketone to a solution of free penicillin acids in a water-immiscible solvent showing a potency of above 500 units per milligram of dry substance, passing gaseous ammonia through the solution until a pH value of 5 to 9 is obtained, and separating the precipitated ammonium salt crystals.

2,590,404
CAR COUPLER
Newton Hammond, Murphysboro, Ill., assignor of twenty-four and one-half per cent to Fred Huff, Du Quoin, and twenty-four and one-half per cent to Theron G. Gerow, Skokie, Ill.
Application August 14, 1950, Serial No. 179,196
1 Claim. (Cl. 213—188)



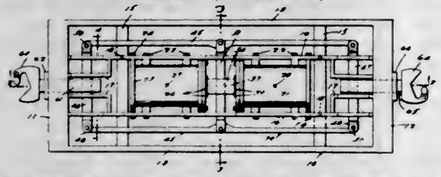
For use in coupling a pair of railroad mine cars, a car coupler of the class described, comprising in combination, a male and a female coupling mechanism mounted in opposed separated relation to adjacent ends of the pair of mine cars, each coupler mechanism comprising a housing, a slide member journaled for sliding rectilinear movement within said housing, front and rear walls enclosing opposite ends of said housing and limiting movement of said slide therein, compressive spring means mounted between said slide and rear wall for biasing the same toward said front wall, and a removable connector pin passing vertically through said housing between said slide and front wall thereof; a coupling link reaching between said two mechanisms and engageable, at its opposite ends, with the slide members therein via suitable apertures formed in the front walls of said two mechanisms, the front wall aperture in said female mechanism converging uniformly inward to guide the entry thereinto of one end of said link and the front wall aperture in said male mechanism having a substantially horizontal planar surface defining its lower side with the remainder of its periphery converging uniformly inward to guide the entry thereinto of said link's other end; said link receiving the connector pin of each of said mechanisms therethrough for locking the latter together; and a downwardly and rearwardly sloping front face formed on said male mechanism's slide member and having a detent recess formed therein in substantial horizontal alignment with the planar face of said male mechanism's front wall aperture whereby such serves to guide said link's other end downwardly, upon entering said male mechanism, to engage said detent recess which cooperates with said planar face to maintain said link in a substantially horizontal coupling position for ready entry into said female mechanism's front wall aperture.

2,590,405
SIGNAL TO NOISE RATIO OF RADAR SYSTEMS
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 13, 1946, Serial No. 690,134
8 Claims. (Cl. 343—5)



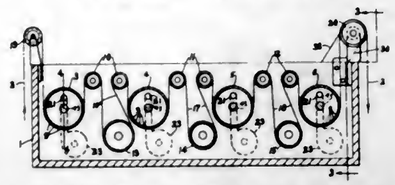
5. Means for improving the signal to noise ratio in radar systems adapted to receive repetitive signals comprising an amplifier, a supersonic wave delayer for time delaying a portion of the output wave energy of the amplifier and a rectifier for the time delayed energy, output from which varies the amplification of the amplifier.

2,590,406
MEANS FOR RETARDING IMPACTS ON RAILROAD CARS
Albert A. Haas, Macon, Ga.
Application June 15, 1948, Serial No. 33,068
1 Claim. (Cl. 213—8)



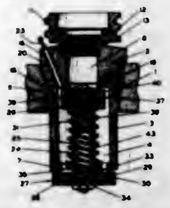
A device for retarding impacts on railroad cars comprising a pair of longitudinal parallel sills rigid with a car and provided with spaced elongated slots, a plurality of transverse bars having the ends mounted slidably in adjacently disposed slots in the sills, a side bar parallel to each sill, means connecting the ends of the transverse bars to contiguous portions of the side bars to form a reciprocative frame, opposed cylinders having the inner ends facing ends formed with center openings, a piston in each cylinder, a common rod connecting the pistons together and provided with a slot to receive a transverse bar, each cylinder having a port open to the atmosphere and controlled by the pistons, a pipe connecting the cylinders together adjacent their inner ends, the ends of the pipe forming an outlet for the air in one cylinder when an impact on one end of the frame shifts the frame and pistons away from the impacting force, the air being compressed by the piston in the other cylinder, the increased pressure in the last-mentioned cylinder and decreased pressure in the other cylinder causing the pistons to be moved in opposite directions, and a coupling attached to each end of the frame, the connecting rod between the pistons being square in cross-section, and rollers carried by the inner ends of the cylinders in advance of and encompassing the center openings and engageable with the faces of said rod for preventing rotative movement of the rod and binding of the rod and the transverse bar and providing means for the uniform travel of said rod and the pistons.

2,590,407
OPEN WIDTH DYEING MACHINE WITH PERFORATED CYLINDERS
Hermann Haas, Remscheid-Lennep, Germany
Application October 14, 1950, Serial No. 190,124
In Germany January 30, 1950
2 Claims. (Cl. 68—175)



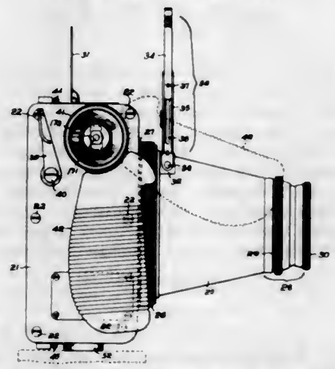
1. A machine for treating cloth in open-width web formation comprising a vat to contain the liquid with which the cloth is to be treated, a plurality of horizontal parallel stationary cylinders in said vat, each cylinder having its lower portion only perforated, a driven feed roll for feeding the cloth to be treated from each stationary cylinder to the next, guide rolls for directing the cloth around and in contact with the perforated portion of each cylinder and around and in contact with the feed roll, means for rotating the driven feed roll which delivers cloth to each stationary cylinder at a slightly greater surface speed than that which takes the cloth from said cylinder and delivers it to the next succeeding cylinder, and means to force the cloth-treating liquid into each cylinder and outwardly through the perforations thereof and through the cloth passing over the perforated portion of the cylinder, whereby the difference in surface speed of the feed rolls on the in-put side and out-put side of each stationary cylinder together with the pressure of the liquid against the cloth as it passes over the perforated portion of said cylinder maintains the cloth in contact with said cylinder with a gentle touch and free from harmful tension.

2,590,408
DOUBLE CHECK QUICK FILLER VALVE
Clarence O. Henneman, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application August 18, 1947, Serial No. 769,120
7 Claims. (Cl. 277—44)



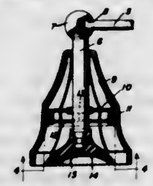
7. A double-check filler valve for a liquefied gas storage or fuel tank comprising in combination a valve housing having a passageway therethrough; means for mounting a valve in the inner end of said passageway; a first valve mounted in said valve mounting means, said first valve comprising a stem hollowed in one of its end portions, the hollowed end portion of said stem being within said passageway, and a valve head on the solid end portion of said valve stem, said valve head having a resilient, compressible face on its side adjacent said hollowed end portion of said stem and seated at the lower end of said passageway; a compression spring extending about said hollowed stem from said mounting means and connected at its other end to said valve stem; a weaker compression spring within and supported by said hollowed stem; a second valve comprising a stem and a valve head, said valve head having a resilient compressible face on its side opposite said first valve, said second valve stem being mounted in said hollowed stem of said first valve and supported by said weaker compression spring therein so as to seat said second valve and to shut off said passageway intermediate its ends.

2,590,409
HAND-HELD ROLL-FILM CAMERA
Edson S. Hineline, Rochester, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware
Original application August 10, 1946, Serial No. 689,714, now Patent No. 2,556,967, dated June 12, 1951. Divided and this application July 24, 1947, Serial No. 763,238
62 Claims. (Cl. 95—34)



1. A camera having film advancing means including a film rewind pinion **88**, a gear **86** meshing with the said pinion, a cam plate **89** attached to a face of the gear **86** and having driving studs **90**, a gear sector **92** having an extending arm **93**, and ratchet drive members **94**, **95** pivotally attached to said arm **93** and adapted to engage said driving studs **90** of the cam plate **89**, and means to impart rotary movement to said gear sector **92**.

2,590,410
GARMENT DRYING RACK SUPPORT
Herman W. Hurley, Louisville, Ky., assignor of fifty per cent to Adolph Ehrsam, Fredericksburg, Ind.
Application June 26, 1947, Serial No. 757,237
1 Claim. (Cl. 248—206)



A bracket comprising an arm, a rubber suction cup carried at the inner end of said arm for attaching to a supporting structure, a cover enclosing said cup and slidably receiving the arm, and connecting means between the cover and the arm to hold the cover against the structure, said connecting means comprising a resilient bar.

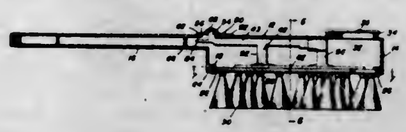
2,590,411
CERIUM ACTIVATED ALUMINATE PHOSPHORS ACTIVE IN THE ERYTHEMAL RANGE
Sampson Isenberg, Chicago, Ill., assignor, by mesne assignments, to Pollak Luminescent Corporation, Chicago, Ill., a corporation of Illinois
No Drawing. Application December 18, 1947, Serial No. 792,619
2 Claims. (Cl. 252—301.6)

2. As a luminescent material, active in the erythemal range, a member selected from the group consisting of an aluminate of a metal selected from the group consisting of zinc, calcium, strontium, barium, magnesium, beryllium and cadmium, and containing cerium as an activator in the proportion of from about 0.05% to 5%.

2,590,412
METHOD OF WORKING UP THE WASTE LIQUOR OF FERMENTATION INDUSTRIES IN WHICH MOLASSES ARE USED
Max Petrus Jozef Maria Jansen, Bergen op Zoom, Netherlands, assignor to N. V. Zuid-Nederlandsche Spiritusfabriek, Bergen op Zoom, Netherlands, a corporation of the Netherlands
No Drawing. Application November 2, 1948, Serial No. 58,013. In the Netherlands November 14, 1947
3 Claims. (Cl. 23—63)

1. Method of working up the waste liquor of fermentation industries to recover the potassium values thereof in the form of potassium carbonate comprising burning the evaporated waste liquor with a quantity of air insufficient to prevent the reduction to potassium sulfide of the greater part of the potassium sulphate contained in the waste liquor by the carboniferous substances formed in situ during the combustion process to form a salt mixture comprising potassium carbonate and potassium sulfide, dissolving the salt mixture obtained in water, introducing carbon dioxide into the solution so as to convert the potassium sulfide into additional potassium carbonate and separating the potassium carbonate from the solution.

2,590,413
POWDER DISPENSER FOR BRUSHES
Manuel A. Jardines. S, Mayari, Cuba
Application October 8, 1948, Serial No. 53,575
4 Claims. (Cl. 222—510)



2. In a brush comprising a casing defining a material reservoir and having a top wall, depending side walls and an apertured bottom wall, valve means for controlling the discharge of the material through the apertures in the bottom wall including an apertured plate slidably superimposed on the bottom wall, an elongated operating arm mounted for sliding movement on

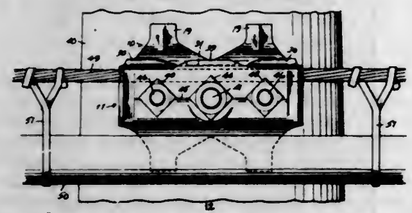
the interior of the top wall, guide means for said arm, connecting means between said arm and plate and a lateral extension on the rear end of the arm positioned through the top wall, and a button member encompassing the outer end of the extension and slidably disposed on the top wall.

2,590,414
DUCT RODDING MACHINE
Cronje Jasper, Villa Park, and George T. Hawk, Chicago, Ill.
Application March 17, 1950, Serial No. 150,182
18 Claims. (Cl. 175—378)



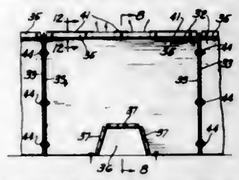
1. A laterally flexible duct rodding machine, comprising a main fluid pressure operated reciprocating motor having two relatively movable parts, a pair of auxiliary pressure actuated means, one flexibly connected to each of said main motor parts whereby the longitudinal axes of said auxiliary pressure actuated means are free to move out of coincidence with the longitudinal axis of said main motor, and expansible duct gripping means actuated by said auxiliary pressure actuated means for gripping a duct at one end of the device when the main motor advances the other end of the device.

2,590,415
CABLE MESSENGER CLAMPING BRACKET
Kenneth C. Jenne, Branford, Conn., assignor to Malleable Iron Fittings Company, Branford, Conn., a corporation of Connecticut
Application July 21, 1949, Serial No. 105,994
2 Claims. (Cl. 248—66)



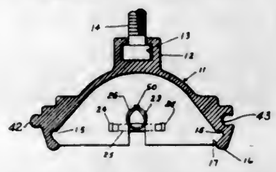
1. A reversible clamping bracket for attachment to a transmission line pole or like support comprising a clamp body having a support engaging rearward side and a cable clamping forward side, a clamping plate engaged with the forward side of said clamp body, clamping bolt means connecting said clamp body and said clamping plate, said clamp body and said clamping plate being provided in vertically spaced relation at one side of said bolt means with complementary longitudinal cable receiving grooves in their opposed surfaces, fulcrum means in vertically spaced relation at the other side of said bolt means cooperatively arranged between said clamp body and said clamping plate whereby said grooves are movable toward and away from each other, a projecting lip carried by said clamping plate adjacent the outer edge of its cable receiving groove substantially centrally between the outer ends of said groove and in the clamped position of said clamping plate extending over the edge of said clamp body adjacent the outer edge of its cable receiving groove, and a pair of projecting lips carried by said clamp body adjacent the outer edge of its cable receiving groove disposed at each side of said lip of said clamping plate and substantially adjacent to the ends of said groove, said pair of lips in the clamped position of said clamping plate extending over the edge of said clamping plate adjacent the outer edge of its cable receiving groove, said bolt means providing a cable retaining barrier below the clamped cable in the position of said bracket with the cable above the bolt means and said pair of lips providing a cable retaining barrier below the clamped cable in the reversed position of said bracket with the cable below the bolt means.

2,590,416
AIR HAY-DRYING APPARATUS AND METHOD OF MAKING SAME
Albert C. Johnson, Fairfield, Iowa, assignor to The Louden Machinery Company, Fairfield, Iowa, a corporation of Iowa
Application August 21, 1947, Serial No. 769,911
15 Claims. (Cl. 98—56)



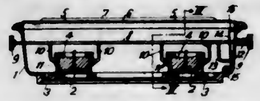
1. A metal duct air hay-drying apparatus for mows of barns, comprising a duct having a plurality of spaced cross supporting arches of T bars with the stems of the bars on the outside of the arches, and two metal sheets one on either side filling the space between consecutive arches, said sheets being conformed to the arches and overlying and secured to the flanges and stems thereof and secured together along the crown of the arched duct so formed.

2,590,417
ELECTRIC HEATING
Robert L. Jones, Swissvale, Pa., assignor to Edwin L. Wiegand Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 18, 1948, Serial No. 49,904
7 Claims. (Cl. 219—34)



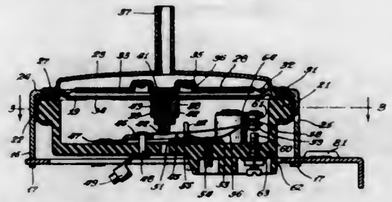
1. An infra-red electric heater comprising an elongated metal housing providing an elongated substantially rectilinear open sided concavity, longitudinally extending overhanging ribs along the rear surface of the housing forming a longitudinally extending undercut channel, mounting bolts having their heads disposed in said undercut channel and adjustable along said channel into positions appropriate to supporting means on which said housing is to be mounted, a recess and a lip along each edge of the open-sided concavity, each of said recesses and lips together forming a ledge, a pair of supporting plates mounted on said ledges transversely of the open-sided concavity, said supporting plates being spaced from the respective ends of the housing to divide the open-sided concavity into an extended central recess and two relatively short end recesses, an elongated, substantially rectilinear, radiant electric heating element extending longitudinally of the central recess of the open-sided concavity and supported on said supporting plates, said heating element having its ends extending into the respective end recesses and being provided on its respective ends with terminals for the reception of electric conductors, a forwardly opening recess in each of the heating element supporting plates in which the heating element is disposed, a pair of apertures in each of said supporting plates adjacent the open ends of said recesses, and a strap extending through said recesses and transversely overlying said heating element whereby said heating element is supported in said supporting plates for lineal expansion and contraction movement.

2,590,418
PLATE WARMER
Victor Kobler and Werner Kobler, Zurich, Switzerland, assignors to Kobler & Co., Zurich, Switzerland
Application September 14, 1950, Serial No. 184,814
In Switzerland September 22, 1949
6 Claims. (Cl. 126—261)



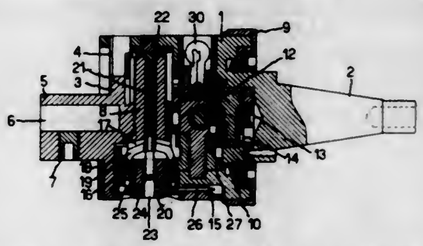
1. In a candle heated plate warmer, comprising candle sockets, a container surrounding said sockets, a cover plate at the top of said container, said cover plate having openings therethrough, a hoisting device, for hoisting said sockets into said openings so that the upper edge of the sockets is approximately flush with the upper side of the cover plate, a checking device for arresting the candle sockets in raised positions thereof, and at least one spring-plate provided in said checking device for cooperation with a part of the hoisting device.

2,590,419
PRESSURE SWITCH
John C. Koonz, Fort Wayne, and Chester L. Piper, New Haven, Ind., assignors to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application July 16, 1948, Serial No. 39,024
5 Claims. (Cl. 200—83)



1. In a pressure switch, in combination, a multiple section over-center leaf spring including at last one tension element and at least one compression element, with a pair of limit stops for the spring; means including a shiftable mounting for one of said limit stops and a shiftable pivot for a compression element of the spring to adjust the spring to actuation at a specified pressure; additional means to adjust the spring for return movement, said additional means consisting of a shiftable mounting for the other of the limit stops, a manually shiftable camshaft, at least one cam surface on said camshaft, and means responsive to said cam to shift said second limit stop; together with an air chamber, a freely suspended limp membrane closing one side of the air chamber; a thin, light, relatively stiff pressure disc within said air chamber and positioned to normally maintain said membrane in a position of zero initial load; a sleeve in the wall of said air chamber with a bleeder orifice adjacent the center of the pressure disc and an enlarged bore opening toward the multiple section leaf spring; an actuating rod extending into the bore of the sleeve and in single point engagement with the leaf spring, and a needle on said actuating rod extending through the bleeder orifice, with the end of the needle in engagement with the center of the pressure disc.

2,590,420
TOOLHEAD WITH ADJUSTMENT INDICATOR
Gunnar Hjalmar Lagher, Skanes Viby, Sweden, assignor to Helmer Hoog, Stockholm, Sweden
Application September 23, 1946, Serial No. 698,704
In Sweden July 6, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 6, 1965
11 Claims. (Cl. 177—311)

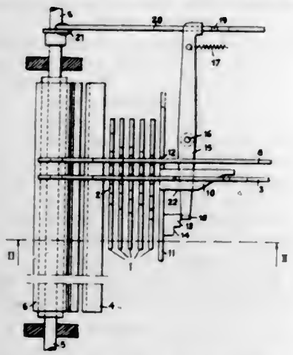


1. In a tool head, a rotatable body having a radial guide, a tool holder adjustable in said guide, a member rotatable in said head and operable to move the holder in the guide in degree proportional to the angular movement of said member, an adjusting member mounted on said body, a transmission including gears connecting said two members, an indicator circuit, a contact device mounted on said body and controlling the closing of said circuit, and operating means for the contact device actuated periodically by one of the gears in said transmission during movement of the tool holder.

2,590,421
PRINTING TELEGRAPH APPARATUS
Guglielmo Lanza, Turin, Italy, assignor to Ing. C. Olivetti & C. S. p. A., Ivrea, Italy
Application May 7, 1951, Serial No. 224,889
In Italy March 20, 1951
7 Claims. (Cl. 178—33)

1. In a printing telegraph receiving apparatus, a set of receiving code bars individually movable into two different positions upon reception of a combination of impulses, a plurality of operating members arranged adjacent said code bars, each operating member being adapted, upon actuation thereof, to operate a particular machine function of a plurality of machine functions, said code bars being formed with notches for selecting said operating members, one operating member being normally selected for each permutative position of said set of code bars, and means for operating further machine functions, said means being associated with one of said operating members and

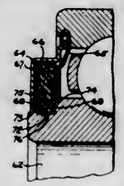
conditioned thereby upon actuation thereof to operate said further machine functions upon repeated actuation of said last named operating member.



2,590,422
BEARING SEAL

Samuel R. Large, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application January 19, 1946, Serial No. 642,152
12 Claims. (Cl. 286—5)



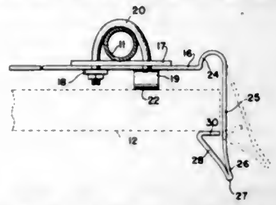
1. In a device of the character indicated, a pair of relatively rotatable inner and outer members having an annular lubricant chamber therebetween, a yieldable annular slinger secured to one of said members for rotation therewith, means on said other member providing an annular groove loosely receiving said yieldable slinger, said groove having side walls in close proximity to said slinger, and a nap on the slinger having closely spaced flexible fibers which project outwardly from the body of the slinger into light wiping engagement with one of said side walls to provide between these fibers a multiplicity of very small interconnecting labyrinthian passages that prevent the entrance of dirt into the lubricant chamber and prevent leakage of lubricant from said chamber.

2,590,423
AUTOMATIC DOOR HOLDER

James W. Laurin and Eugene Laurin, International Falls, Minn.

Application February 3, 1950, Serial No. 142,156
1 Claim. (Cl. 292—80)

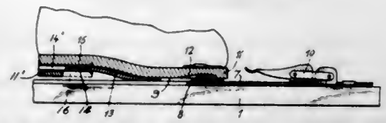
In a catch device for a door, a vertical post member adapted to be anchored in the ground adjacent said door, a pair of vertically aligned U-bolts engaged around said post member, a first plate member receiving the legs of said U-bolts and positioned against the post member, respective vertical strap elements connecting the vertically aligned side legs of the U-bolts, a horizontally extending bar disposed between the U-bolts and clampingly received between said first plate member and the strap elements, a spring arm integrally carried at one end of said bar, said spring arm projecting forwardly substantially at right angles to said bar, an inwardly inclined camming element carried at the end of said spring arm, and a resilient detent element carried by said camming element at its inner end, said bar being adjustable horizontally whereby the position of the resilient detent element may be adjusted horizontally relative to the post member so that the side marginal portion of a door may successively engage said camming element and detent element when the door is swung open.



2,590,424
SKI BINDING

Joakim Lehmkuhl, Watertown, Conn.

Application August 31, 1948, Serial No. 47,070
In Norway July 18, 1947
2 Claims. (Cl. 280—11.35)

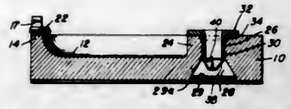


1. A ski binding for ski shoes of the type having a recess in the sole and a slot in the heel thereof, said binding comprising a plate adapted to be fixedly secured to a ski, said plate having sole edge gripping lugs at the forward end thereof for engaging the sole of a ski shoe, a heel engaging strap at the other end of said plate, a slot in said plate intermediate said gripping and engaging means, an upstanding lug slidable in said slot to engage the recess in the sole of the shoe, and means for drawing said lug forward to lock the shoe and lug in an advanced position to clamp said sole between said edge gripping lugs, said strap simultaneously entering the slot in said heel if the heel is in a lowered position, or passing below said slot if the heel is in a raised position with respect to the ski.

2,590,425
CIGARETTE EXTINGUISHER

Robert C. Lindstrom, Los Angeles, Calif., assignor of fifty per cent to Oscar Lindstrom, Great Falls, Mont.

Application September 24, 1947, Serial No. 775,861
1 Claim. (Cl. 131—235)



A cigarette tray comprising a body having an upstanding marginal flange, a projection integrally formed with said flange and extending radially inwardly of the flange, said projection including a substantially vertical bore having an enlarged lower portion, a sleeve received in the upper end of said bore and having an upper flange bearing against the upper face of said projection, a substantially U-shaped wire member disposed in the enlarged portion of said bore, arcuate extensions at the ends of said U-shaped member fixed to the lower end of said sleeve, an elongated upwardly disposed pointed element fixed to said substantially U-shaped member at the bottom of the U and having its upper portion entering the sleeve, and a fire resistant disk mounted in the enlarged portion of said bore.

2,590,426
PROCESS FOR PHOTOCHEMICAL CHLORINATION OF HYDROCARBONS

Anthony Loverde, Niagara Falls, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

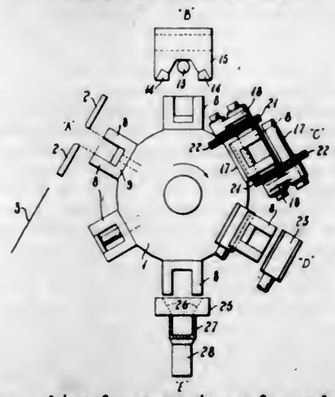
No Drawing. Application May 28, 1945, Serial No. 596,217
3 Claims. (Cl. 204—163)

1. The process for photochemical chlorination of heptane to approximately eighty per cent chlorine which comprises bringing the heptane, under actinic light, in contact with chlorine diluted with approximately an equal volume of an inert gas at a temperature rising gradually from about 25° to about 50° C. for approximately 48 hours, then in contact with undiluted chlorine for a further period of approximately 80 hours at a temperature rising gradually to approximately 150° C.

2,590,427
WRAPPING MACHINE FOR LIGHTLY COMPRESSED GRANULES

William Ewan MacKenzie, South Croydon, England

Application August 25, 1947, Serial No. 770,512
In Great Britain August 26, 1946
4 Claims. (Cl. 53—130)

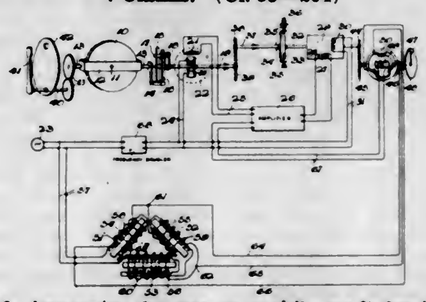


1. A machine for wrapping a formed article of lightly compressed granules without deformation thereof, comprising an intermittently driven rotor, a plurality of carriers on the rotor, a plurality of successively positioned operating stations positioned at intervals around the rotor in the cycle of travel of each carrier, a wrapper feed arrangement and an article feed mechanism at the first of said stations, said carriers being shaped to form the wrapper into a U-formation around the article to be wrapped, a pair of oppositely disposed packing pieces adapted to feed endwise into the open ends of the U-shaped wrapper on each side of the article in the wrapper, a rod positioned above the article between the ends of the U-shaped wrapper, a pair of folding elements adapted to fold over the upper ends of said U-shaped wrapper into engagement with each side of said rod, whereby when the said folding elements abut together they form a two-ply upstanding lip, said folding elements being heated to seal the plies of the lips together, operatively connected linkage adapted to successively withdraw the said packing pieces and said folding elements as the carrier turns to the next station, wiper means mounted above the carrier as it turns to said next station adapted to wipe said sealed lip flush against the top of the article, two pairs of end folding means at said next station, one pair of said end folding means being above and the other pair below the article and being sector shaped, movable supporting means for each pair of end folding means adapted to pivot the same towards each other and rotate the sectors thereof, to thereby fold the ends of the wrapper with an upstanding sealed two-ply lip by the abutting action of the sector-shaped folding means, means for returning said supporting means and said sector-shaped folding means to inoperative position, a final wrapper former at the last station of the carrier adapted to fold the end lip flush, and an ejector operatively associated with said former to eject the finished article.

2,590,428
ORIENTATION SYSTEM

Paul A. Noxon, Tenafly, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

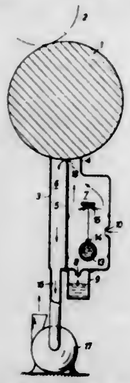
Application September 21, 1944, Serial No. 555,155
7 Claims. (Cl. 33—204)



6. Apparatus for use on mobile craft for indicating the magnetic heading of said craft, comprising an indicator, gyroscopic means mounted for precession in response to and in accordance with the turn of said craft, an induction motor, an inductive device having a wound stator and a wound rotor mechanically connected to and actuated by said gyroscopic means for developing a signal in said stator proportional to the precessional torque developed by said gyroscopic means during turn, means electrically connecting said stator to said motor for transmitting said signal to said motor for operation thereof, means comprising a yieldable coupling included in the connection between said motor and the rotor of said inductive device, whereby said motor, upon operation thereof in response to said signal, produces an opposing torque on said gyroscopic means proportional to the rate of turn of said craft and also simultaneously integrates said rate of turn to obtain the amount of turn, means responsive to the earth's magnetic field connected to and controlling said motor for correcting the integrated amount of turn for an erroneous integrated change of heading, and means drivably con-

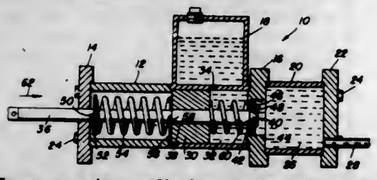
necting said motor to said indicator for operating the latter in accordance with the corrected integrated amount of turn.

2,590,429
CYLINDER DAMPENER FOR OFFSET-PRINTING MACHINES
Max Ras, Zurich, Switzerland
Application June 9, 1950, Serial No. 167,042
In Switzerland March 20, 1950
4 Claims. (Cl. 101—147)



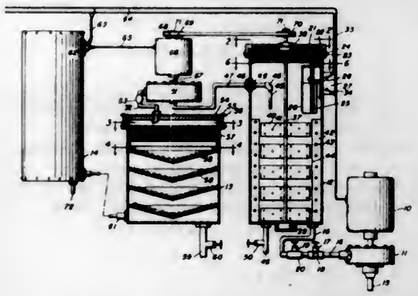
1. A cylinder damping apparatus for offset printing machines, comprising an atomizer box having an open top in the form of a longitudinal slot, a damping cylinder closely positioned above said slot and extending therealong, a partition wall projecting into the range of said slot and subdividing said box into two compartments, the top edge of said wall being spaced from said cylinder a distance slightly greater than the distance between the edges of the box walls forming the longitudinal slot and said cylinder, means for atomizing water in one of said compartments, an air entrance opening in said one compartment, suction means connected to the other said compartment, said suction means producing an air stream through said box over said top edge of said wall and carrying therewith the atomized water in a uniformly distributed condition through the said slot and onto said cylinder for the damping thereof.

2,590,430
HYDRAULIC MASTER CYLINDER
John T. Risse, Eldora, Iowa
Application February 16, 1951, Serial No. 211,327
3 Claims. (Cl. 60—54.6)



3. In a master cylinder, a housing having a first fluid chamber and a fluid reservoir communicating therewith, a housing extension having a second fluid chamber in communication with said first chamber and having an outlet port therein, a large piston slidable in said housing and having an axial bore therethrough, a small piston being slidably received in said bore, a shoulder intermediate the ends of said small piston, a stop on said small piston spaced from said shoulder, a collar slidably received on said small piston and initially abutting said shoulder and one end of said large piston, a compression spring surrounding said small piston and having one end abutting said stop and the other end abutting said collar to initially urge the collar against said shoulder and said large piston, a wall separating said first and second chambers and having a central aperture therein, a check-valving seal in said aperture, the inner end of said small piston engaging said seal and being projectible therethrough into said second chamber when the pressure of the fluid in the first chamber equalizes the pressure exerted by the compression spring on the large cylinder whereby the first chamber becomes a low pressure chamber and the second cylinder becomes a high pressure chamber, a second spring interposed between said separating wall and the other end of said large piston to urge the large piston to its initial position with respect to the small piston as the small piston is retracted from the second fluid chamber.

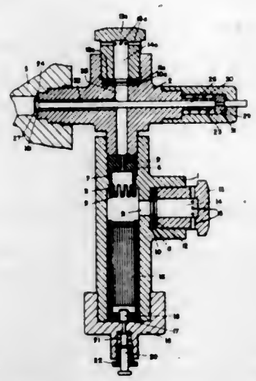
2,590,431
WATER AERATOR AND FILTER
Le Roy Rose, Bradenton, Fla.
Application December 15, 1947, Serial No. 791,691
2 Claims. (Cl. 210—16)



1. In a liquid purification and supply system including a well pump delivering water and occluded gases, an aerator tank connected at its lower end to said pump, means associated with said tank and controlled by the liquid in the tank for operating said well pump, a filter tank, a conduit connecting system between the upper portions of said aerator tank and filter tank, a second pump associated with said conduit system for forcing liquid though the connecting system, a prime mover for said second pump, an agitator rotatably mounted in said aerator tank and actuated by the prime mover for said second pump, a pressure tank connected at its lower end with the lower end of said filter tank for receiving liquid therefrom, and means controlled by the withdrawal of liquid from the pressure tank for automatically operating said prime mover.

2,590,432
SELF-COMBUSTIBLE SOLID CHARGE OPERATED ENGINE STARTER
Robert Wark, Irvine, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
Application March 31, 1950, Serial No. 153,013
In Great Britain May 31, 1949
4 Claims. (Cl. 123—183)

1. A cartridge operated starting device comprising in combination a firing chamber to accommodate a cartridge, a spring controlled non-return valve positioned in the housing and adapted to release pressure within said housing, a pressure controlling orifice, a trap to prevent



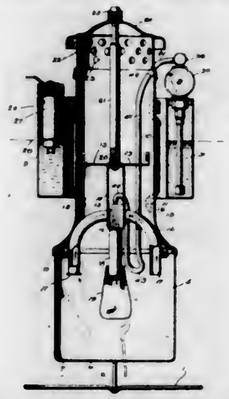
choking of said pressure controlling orifice, and a breech, the said pressure controlling orifice being positioned between said trap and said spring controlled non-return valve.

2,590,433
DECHLORINATION OF A HALOCARBON CONTAINING CHLORINE
Oscar A. Blum, Bayonne, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
No Drawing. Application May 13, 1949, Serial No. 93,188
10 Claims. (Cl. 260—653)

1. The improved process for the dechlorination of a perhalocarbon containing chlorine which comprises reacting a metal with a perhalocarbon containing chlorine at a temperature lower than about 75° C. and a corresponding pressure sufficient to maintain said perhalocarbon in the liquid phase in the presence of an acidified solvent containing between about 0.01 and about 5 mol per cent of an acid to produce a more unsaturated perhalocarbon as the product of the process.

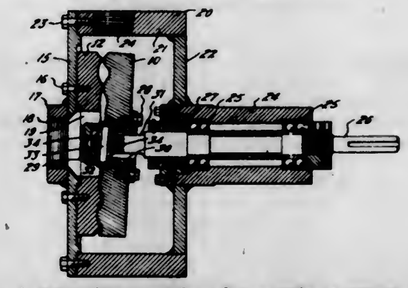
2,590,434
GASOLINE LANTERN
John Lewis Cahill, New Albany, Ind.
Application October 29, 1947, Serial No. 782,940
2 Claims. (Cl. 67—50)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A vapor lamp including a substantially cylindrical chimney portion, an annular tank of substantially cylindrical formation surrounding said chimney in heat-exchange relation thereto and extending throughout a substantial portion of the length of the chimney whereby a continuous pressure is created within the tank while the lamp continues in operation, a hand pump on the tank for applying initial fluid pressure to the surface of fuel in the tank to initiate operation of the lamp, a mixing chamber mounted in the interior of the chimney, a conduit for carburized air communicating with the lower end of the mixing chamber and adapted to receive a gas mantle, a generator tube connecting the mixing chamber with the upper end of the tank in spaced relation to the pump, said tube provided with a loop portion positioned adjacent the gas mantle to receive heat therefrom to vaporize the fuel, and a second tube leading from



the upper end of the generator tube to a point adjacent the bottom of the tank.

2,590,435
FLAT ROTARY PUMP
Sheldon S. L. Chang, Springfield, Ohio, assignor to Robbins & Myers, Inc., Springfield, Ohio, a corporation of Ohio
Application April 29, 1950, Serial No. 159,077
15 Claims. (Cl. 103—133)

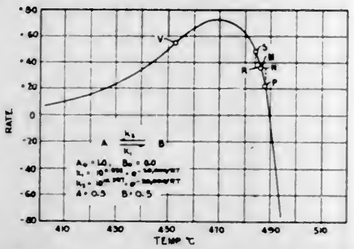


1. A pumping member for a rotary pump comprising a disc-like member having a spiral thread progressing outwardly from the axis, the surface of said member being approximately that generated by a circle about an element of a cone in a plane perpendicular to said element, as said element is moved around the surface of said cone, accompanied by a continuous change in the distance from the periphery of said circle to the apex of said cone.

2,590,436
METHOD FOR CONTROLLING CHEMICAL REACTIONS
Daniel B. Luten, Jr., Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 21, 1948, Serial No. 34,157
8 Claims. (Cl. 23—1)

1. In a process of carrying out a reversible exothermic chemical reaction, the improvement which comprises controlling the temperature of a positioned portion of the reaction mixture by the method comprising: isolating and transferring two small portions of the reaction mixture of said positioned portion into adiabatic reaction zones; imparting an incremental temperature change to at least one of the isolated por-

tions so that one isolated portion is at a higher temperature than the other isolated portion; continuing the same chemical reaction in each isolated portion in said adiabatic reaction zones under substantially the same conditions as those of the said positioned portion except for said incremental temperature difference to thereby produce in each of said portions a measurable change in the value of a measurable property of the reaction mixture which changes progressively as said chemical reaction proceeds; comparing reaction rates in the isolated portions within the adiabatic reaction zones at substantially the composition of the reaction mixture of said positioned portion by measuring changes in the values of said measurable property over short time periods; and adjusting the temperature of said positioned portion of the reaction mixture in the direction of the temperature of the isolated portion which produces the greater reaction rate.

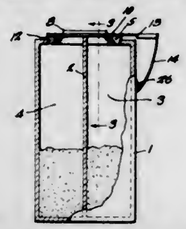


2,590,437

COMBINATION SALT AND PEPPER SHAKER WITH SLIDABLE PERFORATE VALVE PLATE FOR SELECTIVE DISCHARGE

Verner A. H. Maves, Ottawa, Ontario, Canada

Application August 24, 1946, Serial No. 692,803
In Canada June 1946
1 Claim. (Cl. 222—142.8)



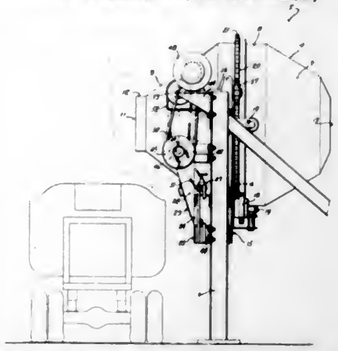
A combination salt and pepper shaker comprising a container having a closed end and an opposing open end, a vertical partition centrally disposed in said container and defining a pair of vertical compartments therein, a detachable guideway on said open end and having a central opening aligned with the open end, a valve plate slidably disposed in a rectilinear path in the guideway and closing off the open end of the container, resilient anchoring means connected to said valve plate for resiliently urging the same to a first position, said valve plate including a transversely disposed perforate outlet section and an adjacent imperforate closure section, means carried by the valve plate for limiting the reciprocatory movement of the plate whereby either of the sections thereof is selectively aligned with one of the compartments, said means including an arcuate shoulder formed on said plate and a depending stop member carried by one end of said plate, said shoulder and member being longitudinally spaced on the plate.

2,590,438

CONCRETE MIXING APPARATUS

Glenway Maxon, Jr., Milwaukee, Wis.

Application February 27, 1950, Serial No. 146,452
11 Claims. (Cl. 259—161)



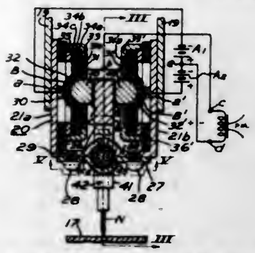
1. In a mixing machine: a mixing drum having a substantially cylindrical medial section and substantially frusto-conical front and rear end sections coaxial with said medial section, the front section having a restricted opening at its forward extremity through which the contents of the drum may discharge; a substantially U-shaped cradle embracing the cylindrical medial section of the drum and upon which the drum is rotatably mounted; extensions on the legs of the cradle projecting forwardly along opposite sides of said front section of the drum toward the discharge end thereof; and pivot defining means on the forward extremities of said extensions to provide for pivotally supporting the cradle for tilting motion about an axis near to but crosswise of the drum axis and closely adjacent to the discharge opening in said front section of the drum.

2,590,439

PUSH-PULL RESISTANCE TYPE PHONOGRAPH PICKUP

Joseph H. McKnight, Pittsburgh, Pa., assignor to Star Electronics, Inc., a corporation of Pennsylvania

Application May 12, 1948, Serial No. 26,511
18 Claims. (Cl. 179—100.41)



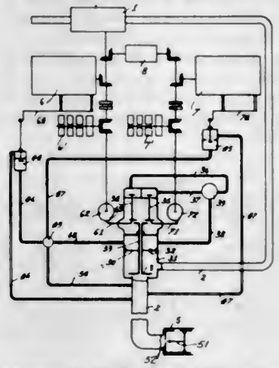
1. An improved electrical pick-up device which comprises, an electrical resistance having relatively loosely-positioned, pressure-sensitive-conductive portions; a contact wall in an electrical contacting relationship with the conductive portions of one side of said resistance; a pressure-applying flexible diaphragm having a contact portion one side of said contact portion being in an electrical contacting relationship with the conductive portions of an opposite side of said resistance; said flexible diaphragm having a portion operably connected with said contact portion to normally urge said contact portion in a direction away from the conductive portions of the opposite side of said resistance; an actuating means; a flexibly-compressible dampening buffer of comparatively soft material having the physical properties of a solid operably positioned between said actuating means and an opposite side of said contact portion; and said actuating means being in an operative pressure contact through said dampening buffer with the opposite side of said contact portion to move the one side of said portion towards the conductive portions of said resistance and compress the conductive portions between said contact portion and said contact wall.

2,590,440

FLUID MEASURING AND DISPENSING APPARATUS

Jean Gustave Antoine Marie Joseph Meyer, Neuilly-sur-Seine, and Raymond Lucien Rambert, Gonesse, France, assignors to the Society S. A. T. A. M. Societe Anonyme Pour Tous Appareillages Mecaniques, La Courneuve, France

Application June 14, 1945, Serial No. 599,400
In France October 20, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 20, 1963
5 Claims. (Cl. 222—20)



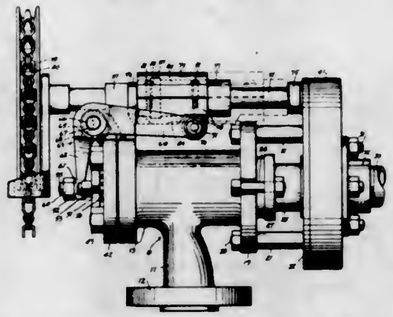
1. A measuring and dispensing apparatus for fluids comprising a main dispensing conduit, a measuring element, a main valve capable of closing said conduit, three by-passes bypassing said valve, a first auxiliary valve capable of closing the first of said by-passes, means operated by said measuring element in order to maintain said first auxiliary valve open in all positions except one, means for maintaining said first auxiliary valve open controlled by the position of the main valve, a second auxiliary valve capable of closing the second of said by-passes, a predeterminating mechanism operated by said measuring element, means operated by said predeterminating mechanism in order to close the second auxiliary valve, means controlled by the operator for closing either said third by-pass or said second by-pass, a piston of a larger cross section than that of the main valve integral with said main valve, one of the faces of said piston being subjected to the action of the pressure prevailing above the main valve, which action tends to open the latter while the other face is subjected to the action of the pressure of the fluid at a point of the said by-passes located upon the above said auxiliary valve of the first by-pass, the action of the pressure upon this latter face tending to close the main valve and bring about the closure of the latter when the flow from the by-passes falls below a maximum value and the opening of said valve when the flow from said by-passes is above such maximum value a closing valve placed upon the main dispensing conduit below the main valve controlled by the operator and capable of closing partially said main conduit and to reduce in such position the flow in the by-passes below the above said maximum value which will bring about the closing of the main valve.

2,590,441

VALVE MECHANISM FOR SOOT BLOWERS

Sidney E. Meyers, New York, N. Y., assignor, by mesne assignments, to Continental Foundry & Machine Company, East Chicago, Ind., a corporation of Delaware

Application August 4, 1948, Serial No. 42,529
5 Claims. (Cl. 15—318)



4. In a soot blower with a rotatable blower nozzle, a rotatable shaft, means connecting the shaft to turn the blower nozzle when the shaft rotates, a valve body with a passageway coaxial with and connected at one end to said nozzle for directing soot-blowing fluid under pressure to said nozzle, and a valve chamber co-axial with and connected to the other end of said passageway, a valve seat at said other end of said passageway, a valve movably mounted in said valve chamber for axial movement, means biasing said valve shut against said valve seat to close said passageway, movable means connected to said valve to open said valve when said movable means moves in one direction and cam means operatively connected to the shaft to move said movable means through rotation of the shaft, said cam means being shaped to move said movable means to move the valve from a closed to an open position during initial rotation of the shaft and to hold said movable means with the valve open during continued rotation of the shaft while the blower nozzle completes its turning cycle.

2,590,442

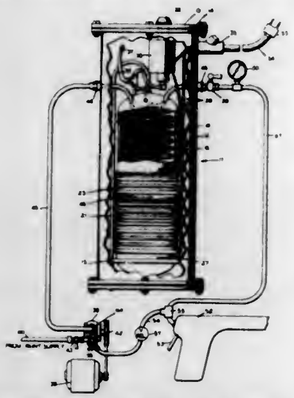
HEATING DEVICE

Glen W. Miller, Covina, and Fred S. Miller, Monrovia, Calif.

Application September 6, 1949, Serial No. 114,142
2 Claims. (Cl. 219—39)

1. A heating device for continuously maintaining a flowing fluid between close limits of temperature variation comprising, a hermetically sealed vessel, heating means positioned adjacent the exterior of the vessel, an elongated conduit passing through the vessel and so positioned within the vessel as to be at least partially surrounded by the vapor phase of a heat-transfer medium contained in the vessel, means to flow fluid to be heated through the conduit, means to energize the heating means to maintain the medium at least partially in its vapor phase,

and pressure responsive means communicating with the vessel and connected to the heating



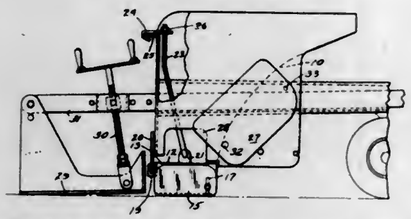
means to automatically control the latter means to regulate the temperature of the fluid passing through the conduit.

2,590,443

CUTOFF PLATE FOR SPREADER BOXES

William J. Miller, Youngstown, Ohio, assignor to Hy-Way Machinery, Incorporated, Youngstown, Ohio, a corporation of Ohio

Application February 5, 1948, Serial No. 6,461
2 Claims. (Cl. 94—44)



1. In a spreader box having front, rear and side walls defining a transverse opening at the bottom of the box for discharge of material therethrough, means for adjustably limiting the transverse dimension of the opening, said means including a cutoff plate disposed in the opening adjacent one side wall and closing off a side portion of the transverse opening, and means supporting said cutoff plate in preselected positions of transverse adjustment relative to the spreader box, said spreader box being provided with a vertically adjustable back wall at the lower edge of the rear wall, said supporting means including a clamp slidably engaged on the upper edge of the rear wall and connected to the cutoff plate, and an inverted U-shaped hook secured to said plate and slidably engageable on the bottom edge of said adjustable back wall, said clamp and hook being cooperative to adjustably secure the cutoff plate in preselected positions of transverse adjustment.

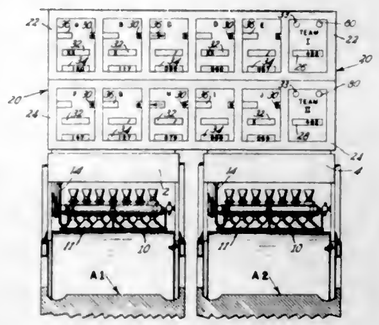
2,590,444

BOWLING MACHINE TOTALIZER

Jacob Millman, Flushing, N. Y., and Howard P. Stabler, Williamstown, Mass., assignors to American Machine and Foundry Company, a corporation of New Jersey

Application January 2, 1947, Serial No. 719,869
30 Claims. (Cl. 273—43)

1. In combination, a bowling pin spotting machine, a scoring and totalizing device, said machine being provided with a plurality of pinfall registering elements, comprising a scoreboard, automatic computing and indicating mechanism in said scoreboard, including means actuated by said pinfall registering elements of said machine for automatically tabulating the pinfall results for each ball rolled in a normal ten frame game, operating means for said mechanism including



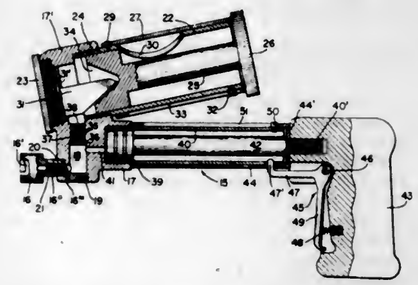
an electric circuit, means connecting said pinfall registering elements in said circuits for sending selective scoring impulses to said operating means and means operative in response to impulses received from said bowling pin spotting machine as the result of the rolling of a ball for energizing said circuit and actuating said indicating mechanism to indicate the score resulting from said pinfall.

2,590,445

STARTING OF INTERNAL-COMBUSTION ENGINES

Clark J. Moody, New York, N. Y., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application March 13, 1950, Serial No. 149,288
18 Claims. (Cl. 123—187.5)



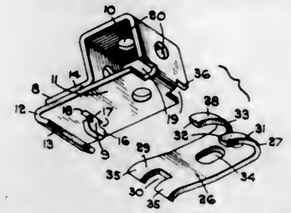
1. A device for puncturing a starting-fluid capsule and expelling said fluid, said device comprising, in combination, a chamber for receiving a capsule, puncturing means therein, a second chamber, valve means normally preventing escape of fluid from said first to said second chamber but operable to permit such escape, means movable in one direction to cause operation of said valve means to permit such escape, a fitting connected to said second chamber, and valve means normally preventing escape of fluid from said second chamber through said fitting but operable upon actuation of said movable means in the opposite direction to permit such escape.

2,590,446

BRACKET FOR SUPPORTING CURTAIN RAILS

Reginald John Murphy, Birmingham, England, assignor to Harrison (Birmingham) Limited, Birmingham, England, a British company

Application May 29, 1948, Serial No. 30,117
In Great Britain June 7, 1947
2 Claims. (Cl. 248—262)



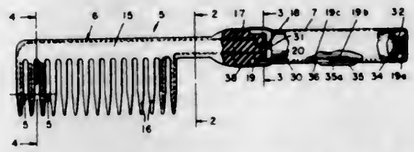
1. A bracket for supporting a curtain rail having a flanged top comprising a strip of metal bent at a position between its ends to form a rectangular loop forming an attachment portion and having two end portions which are disposed in contact and form an arm projecting from said attachment portion, one of said end portions being bent at the end into a channel for engaging over one side of the rail flange, opposite edges of the strip being slotted at one corner of the loop, and a retaining member formed as a strip having one end bent at an acute angle to the plane of said strip, said end having a longitudinal slot and projecting into said rectangular loop at its slotted corner, the sides of the slot in the retaining member being guided on the ends of the slots in the corner of the loop, and further guiding means on the arm for guiding the other end of the retaining member, said retaining member being capable of projecting beyond the end face of said loop, both pairs of opposite sides of the loop having holes for a securing screw, whereby when a screw is passed through either pair of holes and secures the bracket to a fixed structure the retaining member is moved endwise so that it grips the rail.

2,590,447

ELECTRICAL COMB

Simon R. Nord, Jr., South Pasadena, and Clinton B. Brostedt, Los Angeles, Calif.

Application June 30, 1950, Serial No. 171,342
1 Claim. (Cl. 128—393)



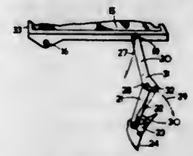
An electrical comb comprising a base having comb teeth of electrically insulative material formed integral therewith, each of said teeth having a longitudinal groove in one of its edges opening towards the next contiguous tooth, an electrical switch carried by said base, an electrically conductive wire connected at one end to one terminal of said switch and thence leading downwardly along and imbedded within each of said respective teeth, thence upwardly in exposed position along said groove therein and thence being connected at its other end to the other terminal of said switch, and means for electrically energizing said wire through said switch.

2,590,448

MOVABLE WINDOW FOR VEHICLES

John H. Orr, Coventry, England, assignor to Carbodies Limited, Coventry, England

Application December 10, 1948, Serial No. 64,593
In Great Britain September 16, 1948
2 Claims. (Cl. 296—44)



1. An automobile body with a window having a lower corner pivoted to the body for arcuate movement, about an axis which is transverse to the plane of the window, between a closed position and an open position, in which latter position the window lies within the body, a pair of toggle arms acting in a plane parallel to that of the window and interconnecting the body and the window remotely from the pivot of the latter, the toggle arms being only slightly out of alignment and acting from opposite sides of the lower edge of the window when the latter is in its extreme positions but folding to a greater extent in intermediate positions of the window, and a resilient means interconnecting the toggle arms and biassing them towards an aligned position for holding the window in its said extreme positions, said resilient means, in intermediate angular positions of the window, being stressed by the relative movement of its interconnections to counter balance the movement of the window.

2,590,449

CATION EXCHANGE RESINS

Julian A. Otto, Long Island City, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 8, 1949,
Serial No. 97,915
24 Claims. (Cl. 210—24)

1. A water-insoluble cation exchange resin obtained by condensation of a substance selected from the group consisting of acetaldehyde disulfonic acid, monochloroacetaldehyde disulfonic acid and the alkali metal salts thereof, with a phenol, in the presence of an acid condensing agent, said phenol containing from 1 to 3 nuclear hydroxyl groups, the hydroxyl groups occupying the 1-, 3- and 5-positions in the aromatic nucleus when there are 3 such groups present, said phenol being otherwise unsubstituted, 2¾ to 3 mols of the aldehyde compound being condensed per 2 mols of said phenol.

2,590,450

MOUNTING CLIP FOR REGULATORS

John B. Parsons, Toledo, Ohio

Application February 20, 1948, Serial No. 9,883
2 Claims. (Cl. 189—36)



2. A mounting for a regulator mechanism unit having a frame including a cross bar, said mounting comprising a headed bolt adapted to be secured to a rigid support, said cross bar having an aperture loosely fitting the head of said bolt to afford limited rocking movement of the

cross bar relative to the bolt, said bolt head being of polygonal shape, a U-shaped sheet metal clip embracing said bar, an integral spring tongue forming a part of one arm of said clip abutting against the outer face of said bolt head, the other arm of said clip comprising a pair of integral fingers, the inner edge portions of said fingers being relieved to accommodate said bolt, and a nubbin projecting inwardly from each finger for engagement with said bar, the bar engaging surface of said nubbin being rounded thereby to afford limited transverse rocking movement of said bar.

2,590,451

METALWORKING LUBRICANT

George L. Perry, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application August 9, 1947, Serial No. 767,860
1 Claim. (Cl. 252—56)

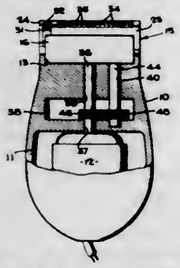
A metal fabricating lubricant consisting essentially of a blend of a microcrystalline slop wax and from 20% and 40% by weight of gas oil and a minor amount of from 1% to about 5% by weight of polyalkylene glycol diester said diester compound being compatible with said blend.

2,590,452

MECHANICAL RAZOR

Albin K. Peterson, Redondo Beach, Calif.

Application July 26, 1947, Serial No. 763,825
9 Claims. (Cl. 30—34)



1. A mechanically actuated shaving implement including: a relatively stationary holder; a pair of adjoining, parallel members carried by the stationary holder, each of said members including a thin, apertured, skin-contacting convex portion, said skin-contacting portions forming an upper smoothly contoured continuously convex skin-contacting surface, said portions being oppositely oscillatable and edges of said portions being in slidable contact along the summit of said convex surface; a single inner cutter element in sliding contact with the inner surface of both skin-contacting portions; and means for reciprocating said parallel members longitudinally and in opposing directions to impart a twisting motion to skin in contact with the skin-contacting portions.

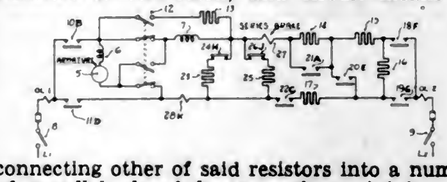
2,590,453

CONTROL SYSTEM FOR HOIST MOTORS

Dorn L. Pettit, Milwaukee, Wis., assignor to Square D Company, Milwaukee, Wis., a corporation of Wisconsin

Application December 17, 1948, Serial No. 65,873
14 Claims. (Cl. 318—274)

6. A hoist motor control system, comprising: a D. C. series type motor having armature and field windings; a plurality of resistors; variable circuit means for connecting the armature and field windings with a power source with said windings in parallel and with certain of the resistors in series with the armature and field windings for operation of the motor at speeds depending upon the arrangement and number of resistors so connected; and circuit means for



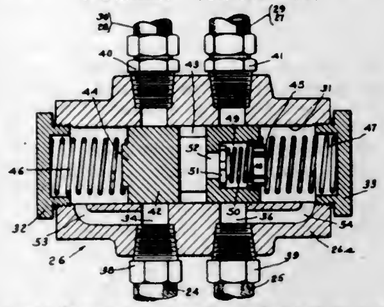
connecting other of said resistors into a number of parallel closed loops, each containing the armature and field windings and a normally closed switch, said closed loops providing a plurality of dynamic braking loops and the opening of the normally closed switches in said loops increasing the voltage impressed upon the armature and thereby increasing the motor speed.

2,590,454

HYDRAULIC BY-PASS SYSTEM AND VALVE THEREFOR

John S. Pilch, Ware, Mass.

Application September 13, 1949, Serial No. 115,331
6 Claims. (Cl. 121—38)



1. In a flow control valve adapted to be interposed in the lines of a hydraulic system having a pressure line and a return line and to be positioned between a hydraulic cylinder and the control valve therefor to increase the speed of operation of the hydraulic system, a valve body communicating with said lines, a slideway in said body adapted to control the passage of fluid through said body, a pressure operated slide in said slideway, said slide having a first fluid passage therethrough and said slide being adapted to be moved by fluid pressure to a position wherein it permits flow from said return line into said first passage in said slide, a second fluid passage in said slide and communicating with said first fluid passage and adapted to establish fluid passage through said slide from said first fluid passage to the pressure line, and valve means in said slide for controlling the passage of fluid through said second passage and allow fluid to pass directly from said return line to said pressure line without passing through the control valve for said hydraulic system.

2,590,455

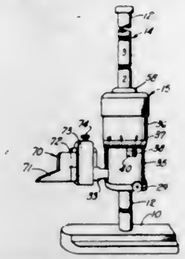
MICROMETER HEIGHT GAUGE

Harold W. Pittenger, Los Angeles, Calif., assignor to Robert R. Noble, San Diego, Calif.

Application February 3, 1949, Serial No. 74,292
17 Claims. (Cl. 33—170)

7. In combination in a gaging instrument: an elongated body sleeve having an axial bore

adapted for a close sliding fit on a supporting post and providing a smooth outer surface; a lead screw sleeve mounted against rotation on said body sleeve adjacent one end and having a central bore providing a close sliding fit on said outer surface of said body sleeve, said lead screw sleeve having external lead screw threads; an overhanging nut rotatably mounted on the other end of said body sleeve and retained thereon against axial movement, said nut having internal threads engaging said sleeve lead screw threads; a barrel fixed upon and around said nut and extending into outwardly spaced relationship with certain of said threads; scale means fixed to said lead screw sleeve and providing a micrometer scale cooperating with micrometer scale means on said barrel; and a gaging arm fixed to said lead screw sleeve to move therewith and projecting radially therefrom.



10. A combination as in claim 7 including a guard casing fixed on said one end of said body sleeve and extending around said lead screw sleeve and into cooperative relation with said barrel, said casing having an opening in which said arm is adapted to move and having a window adjacent said micrometer scale of said lead screw sleeve.

15. In combination in a precision instrument: a post having annular locking grooves therein; a micrometer head comprising a body sleeve slidably mounted on said post and relatively movable gaging means mounted on said body sleeve, said body sleeve having a transverse bore; a locking ball mounted in said transverse bore to engage selectively in said grooves; yielding means engaging said ball to urge the latter into locking position; and movable engaging means movable to force said ball into unlocked position against the tension of said yielding means, said yielding means being a spring-pressed plunger mounted in said bore on one side of said ball and said engaging means being a plunger held in said bore on the other side of said ball and having a portion projecting into accessible position beyond said bore.

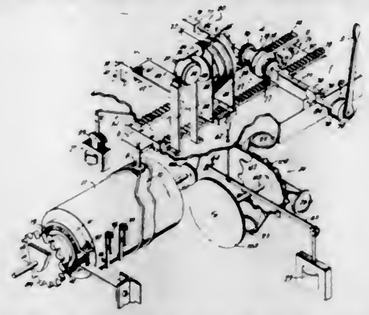
2,590,456

MACHINE FOR PRINTING ON SPHERICAL OBJECTS

James I. Pneuman, Oneida, and James L. Foote, Albany, N. Y., assignors to J. de Beer & Son, Albany, N. Y., a firm

Application August 19, 1949, Serial No. 111,278
18 Claims. (Cl. 101—44)

1. In a device for printing on a spherical object such as a baseball; the combination with means for holding said object; of a plurality of stamps having spherical printing surfaces conforming in curvature to the surface of said object; means for applying ink to said printing surfaces; means for effecting relative movement of said object-holding means and said stamps to bring said object and each of said stamps, in sequence, into juxtaposed relation; means for effecting relative movement of said holding means and each of said stamps when in juxtaposed relation to bring said stamps into printing contact with said object; means for effecting a rela-



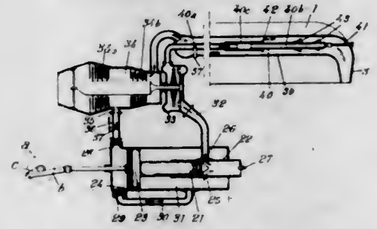
tive rotative movement of said holding means and said stamps between said contacts to present an unprinted surface of said object to each of said stamps; and a motor for actuating said device.

2,590,457

JET PROPULSION DEVICE FOR AIRSCREWS OR ROTARY WINGS

Robert Pouit, Lyon, France, assignor to Societe Industrielle Generale De Mecanique Appliquee (S. I. G. M. A.) Villeurbanne (Rhone), France, a society of France

Application April 9, 1947, Serial No. 740,327
In France April 20, 1946
9 Claims. (Cl. 170—135.4)



1. In connection with an aerodynamic rotary blade, a propulsion device for said blade which comprises, in combination, an internal combustion device, a gas turbine, means for conveying the exhaust gases of said combustion device to the input of said turbine, a rotary air compressor driven by said turbine adapted to supply an air stream at a pressure substantially equal to that of the gas stream leaving said turbine, a tube extending through said blade from hub to tip connected with the output of said turbine, a conduit surrounding said tube, the annular space between said tube and said conduit being connected with the output of said air compressor, and jet propulsion means at the tip of said blade supplied with the streams from said tube and said annular space.

2,590,458

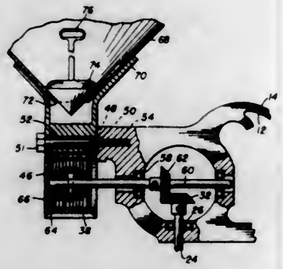
MEASURING AND DISPENSING APPARATUS FOR CONTAINERS

Wilber W. Prickett, San Diego, Calif., assignor of one-half to Mona E. Prickett, San Diego, Calif.

Application July 11, 1947, Serial No. 760,185
4 Claims. (Cl. 222—368)

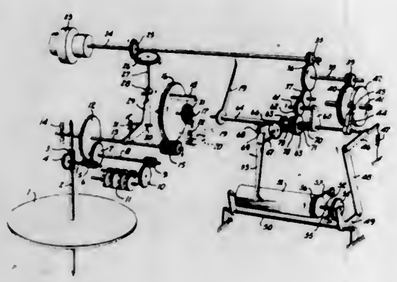
4. A dispensing apparatus comprising a frame, a hopper having an arcuate delivery chute in-

cluding a substantially vertical delivery opening, means adjustable and detachably securing said hopper to said frame, a rotor mounted in said chute and having a plurality of measuring chambers, and means mounted in said chute about



the rotor for regulating the flow of material from said chute into said chambers, said last mentioned means including an arcuate plate fixed in said chute and having an opening tapering toward said rotor and forming a passage between said chute and said rotor.

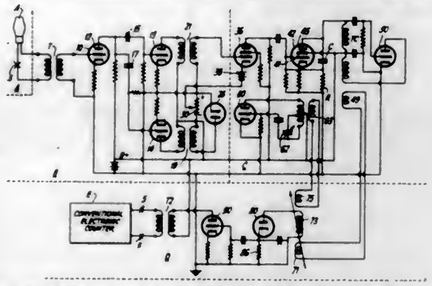
2,590,459
MAXIMUM DEMAND METER
Richard Pudelko, Zug, Switzerland, assignor to Landis & Gyr, A. G., a body corporate of Switzerland
Application November 30, 1946, Serial No. 713,263
3 Claims. (Cl. 346—30)



1. An energy metering and recording mechanism including in combination a meter, driving means connected to the meter, means for returning the driving means to an original position after the expiration of a predetermined period of time, an indicator to be engaged by said driving means to indicate maximum movements thereof, mechanically operated means for automatically returning said indicator to an original position after the expiration of a second predetermined period of time, said period comprising a plurality of said first periods, and recording means connected to said indicator returning means for making a permanent record of the maximum position of said indicator during the return thereof to the original position, said recording means comprising a recording hand connected to said indicator to follow maximum indicating and returning movements thereof and a record receiving member movable to engage said hand during returning movement of said indicator.

2,590,460
SOUND LEVEL AND SOUND INTEGRATING DEVICE
Chester A. Rackey, Crestwood, N. Y., and Thomas H. Phelan, Maywood, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application March 19, 1948, Serial No. 15,876
6 Claims. (Cl. 181—.5)

6. In combination, means for producing a po-



tential having a frequency which changes substantially in direct proportion to the successive values of a variable quantity, means for producing a pulse for each cycle of said potential, means for counting and indicating said pulses, and means responsive to said quantity for preventing production of said pulses until said quantity exceeds a predetermined value.

2,590,461
FISH LURE
Louis E. Rasch, Brainerd, Minn.
Application December 31, 1948, Serial No. 68,649
2 Claims. (Cl. 43—42.15)



1. A fish lure comprising a body portion consisting of a unitary mass of light uniformly compressible cellular rubber formation throughout having a smooth peripheral surface expanding from a front center point to a maximum diameter toward the rear to simulate bait and adapted to readily yield to the grasp of a fish's jaws and provided with a central bore and a groove formation having at least one narrow longitudinal groove extending radially from said central bore to said surface, a metal hook and shank assembly having the shank portion positioned in said bore and the hook portion contained entirely between the longitudinal surfaces of said groove formation so that said hook and shank assembly is insertable in said body by forward movement from the rear into bore and groove formation into position to guard the hook portion against catching on weeds, rushes and the like, said groove formation having a portion corresponding in shape and width to the hook formation between the shank and point thereof to curve around from rearward to forward between the hook point and shank.

2,590,462
GARMENT PROTECTING BAG
Albert J. Rassenfoss, Kenilworth, Ill.
Application March 18, 1950, Serial No. 150,521
1 Claim. (Cl. 206—7)

A garment protective bag of the class described having a body portion adapted to be slipped down

over and to enclose a garment suspended on a hanger having a supporting hook, said bag having an upstanding restricted neck at the top through which said hook extends, an edge binding at each side of the neck, a tying cord around the outside of said neck and spaced from the top thereof and adapted to be tightly drawn and tied



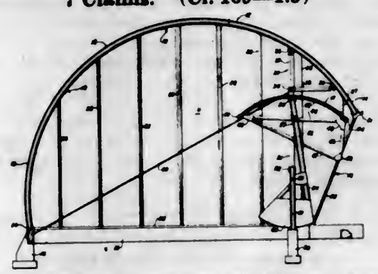
to close said neck about said hook in sealed relation thereto, the said cord being attached intermediate its ends to said binding at one side of the neck, and a loop attached to the binding on the other side of the neck, the free ends of the cord passing through said loop from the opposite sides of the neck and being adapted to be grasped and drawn therethrough and tied together.

2,590,463
ANTIGLARE ATTACHMENT FOR VEHICLES
William B. Ray, Pensacola, Fla.
Application November 9, 1948, Serial No. 59,086
6 Claims. (Cl. 296—97)



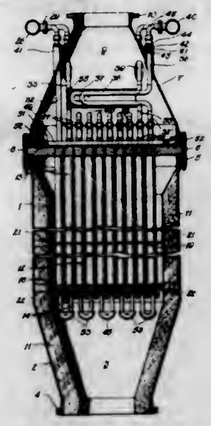
1. In a vehicle windshield including a window frame and an inner convexed retainer strip; an anti-glare attachment comprising an elongated opaque strip bearing against the windshield the entire length of the windshield, a channeled member extending throughout the length of the strip and integrally formed with said strip and receiving the retainer strip, said channeled member extending throughout the length of said strip, and fasteners extending through said channeled member and said retainer strip.

2,590,464
AIRPLANE HANGAR
Antonin Raymond, New York, N. Y., assignor to National Steel Corporation, a corporation of Delaware
Application March 2, 1946, Serial No. 651,532
7 Claims. (Cl. 189—1.5)



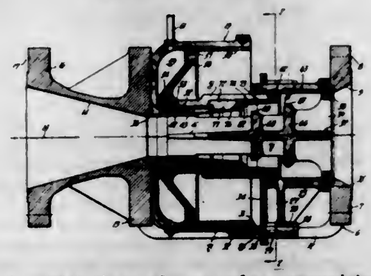
1. In a building, the combination comprising, a plurality of spaced laterally positioned arched ribs, the ribs having corresponding ends thereof terminating adjacent the top of a doorway, a truss extending transversely of and supporting the ribs intermediate the rib crowns and the said corresponding ends thereof, a beam extending transversely of and supporting the ribs intermediate the truss and the said corresponding ends of the ribs, and members connecting together the truss and beam.

2,590,465
HEAT EXCHANGER
Kenneth B. Ris, Garden City, N. Y., assignor to The Griscom Russell Company, New York, N. Y., a corporation of Delaware
Application November 14, 1944, Serial No. 563,434
4 Claims. (Cl. 257—228)



1. In a heat exchanger for transferring heat between a fluid and a mixture of gaseous and finely divided solid materials, a shell supported in upright position having an inlet chamber for the mixture at the bottom and an outlet chamber therefor at the top, a tube sheet adjacent said outlet chamber, a plurality of upright mixture conveying tubes having their upper ends secured in said tube sheet and descending to said inlet chamber, tubes for conveying said fluid disposed one within each of said mixture conveying tubes leaving a flow space for said mixture between the walls of said two tubes, a partition in said inlet chamber having perforations coacting with the lower ends of the mixture conveying tubes to maintain them in spaced relation, and deflecting elements on said mixture directing partition for directing the said mixture into said tubes.

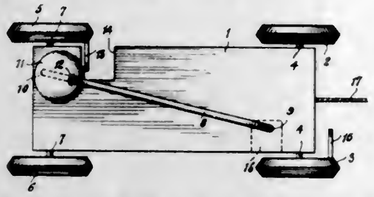
2,590,466
MULTISTAGE SLEEVE VALVE
Fred H. Rued, Lafayette, Calif., assignor to The Pelton Water Wheel Company, San Francisco, Calif., a corporation of California
Application August 23, 1946, Serial No. 692,446
7 Claims. (Cl. 251—78)



1. A multi-stage sleeve valve comprising a cylindrical casing, a central stem in said casing, a sleeve surrounding said stem and slidable within said casing, a plurality of axially spaced throttling discs on said stem, a plurality of interiorly conical throttling portions on said sleeve movable with said sleeve into simultaneous throttling relationship with said discs, a stop for said sleeve

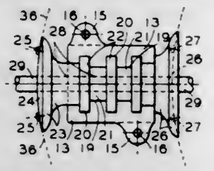
on said stem, and an abutment on said sleeve independent of said throttling portions for engaging said stop with said throttling portions spaced from said discs.

2,590,467
CHILDREN'S WHEELED TOY
Milton D. Sacks, New York, N. Y.
Application December 21, 1949, Serial No. 134,203
2 Claims. (Cl. 46—204)



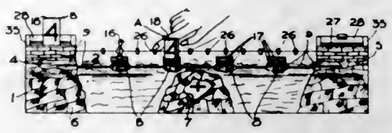
1. A toy consisting of a vehicle having a platform supported by wheels, a wire loop attached at the top of the platform and arising from the same in arcuate fashion, one end of the loop being situated near one of the rear wheels and the other end of the loop being situated near one of the front wheels, a ball slidable on the loop from one end of the loop to the other, said ball normally resting on the platform at either end of the loop, one of the front wheels being provided with an inwardly-extending spring impeller-finger, means on the platform adjacent said finger for causing flexure of the finger by engagement of the same with said means whereby said finger, when moving away from said means, will snap against the ball and toss the same upwardly and along the loop to the rear end of the loop, and means on one of the rear wheels for then engaging the ball and tossing it to cause it to move along the loop to the front end of the loop, all of the wheels of the vehicle being rotated in the same direction as the vehicle is moved forwardly over a supporting surface, and the tossing of the ball occurring during such forward movement of the vehicle.

2,590,468
THRUST BEARING FOR DISK PLOWS
Joseph J. Schermuly, Wichita, Kans.
Application February 11, 1949, Serial No. 75,881
1 Claim. (Cl. 97—220)



In a thrust bearing device of the kind described; said thrust bearing device consisting of the combination of a journal element and a bearing element in which the journal element is revolvably carried, said journal element comprising a single piece of material formed into a journal shaft section on which is integrally formed a series of spaced apart annular and outwardly extending flange portions, the sides of which lie in parallel planes, one end of the journal shaft section having a disk holder element integrally formed thereon having a convex sphere portion formed thereon that is positioned concentric with the said journal shaft section, the other end of the said journal shaft section having a disk holder integrally formed thereon and having a concave spherical shaped portion for disk receiving purposes formed therein and being positioned concentric with the said journal shaft section, each of said convex and concave formations having studs projecting therefrom for reception in holes in a disk whereby the revolving of the disks will revolve the entire foregoing defined structure, said bearing element being made in two halves that are detachably attached each to the other and form an annular grooved bearing that matches the aforedefined shaft section and flanges thereon and in which the shaft section and flanges thereon are revolvably carried, and hanger means integrally formed on one of said bearing halves for attachment to a supporting element for the bearing, said hanger means and bearing half having a lubrication passage therethrough and terminating at the central portion of the said journal section.

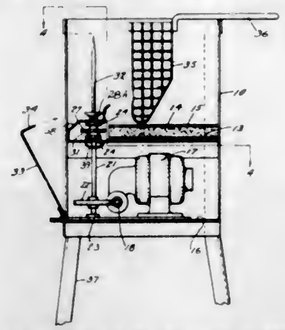
2,590,469
INSTRUCTIONAL DEVICE
Konrad Heinrich Hermann Schumann, Lyttelton, Pretoria, Transvaal, Union of South Africa
Application September 21, 1950, Serial No. 185,937
In the Union of South Africa July 5, 1949
4 Claims. (Cl. 35—31)



1. An instructional apparatus comprising in combination a support member, means on said support member for containing in concealment a plurality of cards bearing a series of numbers for inclusion in an arithmetical process, means for selectively moving said cards into view from said containing means, means bearing the four arithmetic process symbols representing addition, subtraction, multiplication, and division, means providing an aperture in the support member, and means for moving said symbol bearing means relative to said aperture for selectively displaying one of said symbols, said apparatus further comprising support means on said support member for presenting to view a card bearing a basic number to be subjected to the process indicated by the symbol presented to view through the aperture in the support member and the number borne by the card presented to view by said card moving means from said card containing means, and said apparatus further comprising means visibly representing progress stages in linear arrangement, a figure movable with respect to said progress stage representing means to represent a predetermined progress stage, and means for moving said figure.

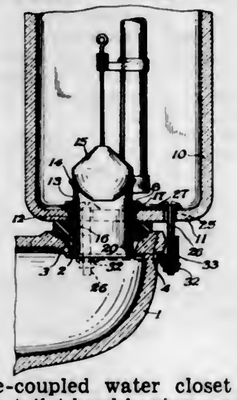
2,590,470
BARBECUING MACHINE
John M. Skocic, Lowellville, Ohio
Application October 13, 1949, Serial No. 121,139
2 Claims. (Cl. 99—421)

1. In a barbecuing machine having a frame, a pair of apertured housing bars positioned horizontally in said frame and in vertically spaced relation to one another, the apertures in one bar being in vertical alignment with the apertures of the other bar, a plurality of horizontally disposed, longitudinally aligned, intermeshed gears positioned between said housing bars, upwardly and downwardly extending bosses on said gears, said bosses registering in said vertically aligned apertures in said housing bars, the upwardly extending bosses terminating above the uppermost one of the said pair of housing bars, cups integrally formed on the uppermost por-



tions of said upwardly extending bosses, vertical passageways through said bosses and solid longitudinally grooved skewers removably positioned in said passageways and extending vertically thereabove, and means in said frame for rotating at least one of said gears.

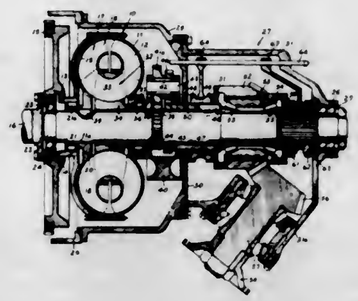
2,590,471
CLOSE-COUPLED WATER CLOSET
Harry F. Smith, Lexington, Ohio, assignor to Mansfield Sanitary Pottery, Inc., Perrysville, Ohio, a corporation of Ohio
Application July 7, 1950, Serial No. 172,509
4 Claims. (Cl. 4—12)



1. A close-coupled water closet combination comprising a toilet bowl having a rear extension, a flange projecting outwardly from said extension, a tank, and means securing said tank in assembled position on said bowl, said means comprising a generally V-shaped member beneath said flange, a clip engaging said member near its apex, and means connecting the clip and the ends of said member to said tank.

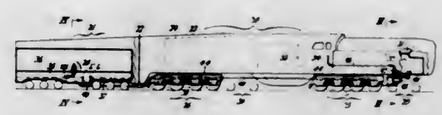
2,590,472
HYDRAULIC TRANSMISSION
Guy E. Soper, New Brunswick, and Hans-Eric E. Christenson, Florham Park, N. J., assignors to Mack Manufacturing Corporation, New York, N. Y., a corporation of Delaware
Application February 28, 1947, Serial No. 731,480
15 Claims. (Cl. 74—677)

1. A hydraulic transmission comprising a torque converter having a rotatable casing for receiving liquid, an impeller rotor, a turbine rotor and a reaction rotor, means for rotating said impeller rotor to rotate said turbine and reaction rotors, said turbine and reaction rotors being rotatable in opposite directions in one speed range and in the same direction in another higher speed range, a driven shaft fixed to said turbine rotor and driven thereby, a first gear fixed to said shaft, a secondary stationary gear, a pinion car-



rier, means including an overrunning clutch connecting said reaction rotor to said pinion carrier to drive the latter when said reaction rotor rotates oppositely to said turbine rotor, at least one pinion rotatably mounted on said pinion carrier and meshing with said first and second gears, an output shaft, a shiftable clutch for selectively connecting said driven shaft to said output shaft and for connecting said output shaft to said pinion carrier.

2,590,473
LOCOMOTIVE
Carleton K. Steins, Merion, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 25, 1946, Serial No. 656,912
7 Claims. (Cl. 105—73)

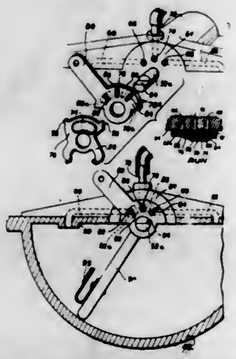


1. In a locomotive, a body with a boiler at one end, and with fuel storage and water ballast compartments at the other end; wheeled trucks with frames and spring suspensions whereby the body is yieldingly supported at opposite ends respectively beneath the boiler and beneath the fuel and water compartments; a coupled tender with a ballast water storage compartment; a conduit extending between the ballast water compartment of the locomotive and the storage water compartment on the tender; a valve and a pump interposed in the conduit; and a linkage means between the valve and the truck beneath the fuel storage and water ballast compartment on the locomotive automatically operative upon rise of the last mentioned end of the locomotive as fuel is consumed, to actuate the valve and thereby permit transfer of weight loss compensating ballast water by the pump, from the tender to the ballast water compartments on the locomotive for maintenance of a constant load on the last mentioned truck.

2,590,474
MOLYBDENUM-CONTAINING FERTILIZER
Albert Leeds Stillman, Plainfield, N. J., assignor to Fuel Research Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application November 26, 1948, Serial No. 62,238
9 Claims. (Cl. 71—44)

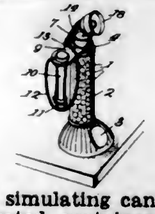
1. The herein described process of making fertilizer comprising adding to a ton of coal an amount of molybdenum compound such as to provide between one-half to three ounces of molybdenum oxide, and a member of the group consisting of insoluble phosphate rock and insoluble potash bearing rock, and mixtures thereof then burning the mixture at ordinary combustion temperatures to convert the same to ash, and then subjecting the resultant ash to a homogenizing step.

2,590,475
PARKING VALVE FOR EXPANSIBLE CHAMBER WINDSHIELD WIPER MOTORS
Delbert Henry Stoltenberg, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application November 13, 1944, Serial No. 563,264
6 Claims. (Cl. 121—97)



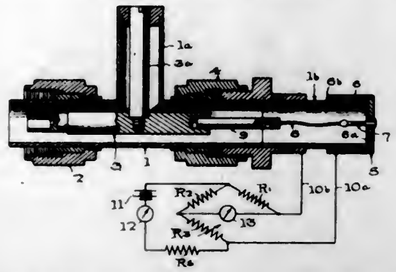
5. In a fluid motor, first and second members movable relative to each other back and forth between normal limits under the influence of a reversibly applied differential between higher and lower fluid pressures, a supply passage adapted for connection to a source of one of said pressures, and valve mechanism for controlling said motor including reversing and control valves for providing running and parking connections between said motor and said passage and between said motor and a source of the other of said pressures, said parking connections between said motor and said source of the other of said pressures including said control valve independently of the position of said reversing valve, said reversing valve being automatically operable at said limits, said control valve being movable between a first position in which it establishes said running connections and in which said reversing valve is operable to reverse the connection between said passage and said motor and a second position in which it establishes said parking connections and in which said reversing valve is ineffective to so reverse said connection and including at least one passageway which forms a part of said running connections when said control valve is in said first position and which forms a part of said parking connections when said control valve is in said second position.

2,590,476
CANDY CONTAINING MUSICAL TOY TELEPHONE
Turney H. Stough, Jeannette, Pa.
Application June 23, 1948, Serial No. 34,660
2 Claims. (Cl. 46—11)
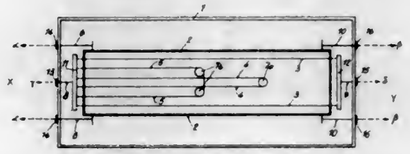


1. A telephone simulating candy filled toy including an elongated container having an enlarged base, a reduced threaded neck and a screw cap closure, and an attachment for said container comprising an elongated flat plate having an opening through one end thereof slightly larger than the neck of said container and positioned thereover and clamped between said cap and the shoulder on said container defined by the reduced neck, said plate further having an opening through the opposite end thereof defining a ring for loosely holding the enlarged end of a simulated telephone receiver, said receiver being normally positioned in said ring and having a cord attached to its smaller end, means on said plate for fixedly holding the free end of said cord, said attachment also comprising a mouthpiece supporting arm extending from said plate upwardly and over the neck engaging opening, and a mouthpiece simulating element secured to the end of said arm.

2,590,477
BOLOMETER
Ernst Weber, Mount Vernon, and Stanley A. Johnson, New York, N. Y., assignors to Polytechnic Institute of Brooklyn, Brooklyn, N. Y., a corporation of New York
Application October 23, 1945, Serial No. 624,032
2 Claims. (Cl. 178—44)



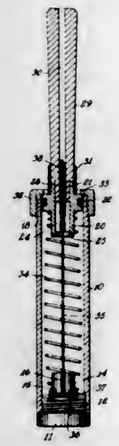
1. A bolometer structure for the measurement of current in the ultra-high frequency range comprising a tubular metallic casing, a closure for one end of said casing, a transmission conductor arranged centrally within said casing and having a gap between its end and said closure, a bolometer resistance element mounted within said casing and connected between the end of said conductor and said casing, said resistance element comprising a thin-walled dielectric carrier having a thin metallic film formed thereon of a thickness of less than the depth of penetration of the current to be measured, said resistance element having a length which is of the order of one-tenth of the shortest wave length of the current to be measured thereby to present a real resistance at the input terminal thereof when mounted in said casing, and means interposed between said resistance element and said conductor for matching said input resistance to the characteristic impedance of said conductor.

2,590,478
APPARATUS AND METHOD FOR MOLDING PRESTRESSED CONCRETE STRUCTURAL MEMBERS
Victor Weinberg, Paris, France
Application June 2, 1950, Serial No. 165,620
In France September 13, 1946
8 Claims. (Cl. 25—118)



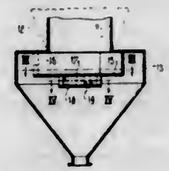
1. An arrangement for molding prestressed concrete structural members comprising an elongated rigid frame, at least one mold lying inside the frame, two cross-members lying inside the frame near the ends of the mold, between which reinforcing members are adapted to be laid, means for rigidly connecting one of said cross-members to the adjacent end of the frame, means for tensioning the other cross-member to stretch the reinforcing members between the two cross-members, means for tensioning the mold through action thereon in the vicinity of said other cross-member and means associated with the end of the mold adjacent the first cross-member and including an abutment cooperating with the first mentioned end of the frame to form a resistance to the tensioning of the mold.

2,590,479
CLEANING APPARATUS FOR PIPES AND THE LIKE
George T. Thomas, Denville, N. J.
Application July 9, 1949, Serial No. 103,887
4 Claims. (Cl. 131—244)



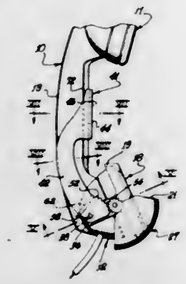
4. A bore cleaning device comprising, an elongated cylindrical fluid chamber, a removable closure plug for one end of said chamber, said plug having a slotted boss extending into the chamber, a piston reciprocable in said chamber having an axial bore, a fluid sealing member carried by said piston, a compression spring positioned between said plug and said piston to move the piston to the end of the chamber opposite from said plug and having a portion surrounding the slot in said boss, an apertured retaining cap removably secured to said opposite end of the chamber for retaining the piston therein, a scrubbing member having a stem engageable in said slot and extending through the bore of said piston, and a resilient sleeve carried by said piston for forming a fluid-tight seal with a pipe part to be cleaned when positioned in alignment with the bore in said piston.

2,590,480
CYCLONE SEPARATOR
Hendrik van der Kolk, Heemstede, Netherlands, assignor to Bureau van Tongeren N. V., Heemstede, Netherlands, a company of the Netherlands
Application March 4, 1949, Serial No. 79,689
In the Netherlands March 16, 1948
6 Claims. (Cl. 183—83)



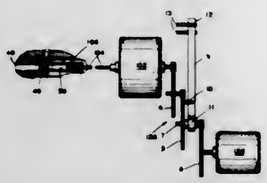
1. Apparatus for removing dust from gases, comprising, a closed-top, open-bottom upright casing of substantially circular cross section, means for the delivery of dust-laden gases tangentially into the top portion of said casing whereby the gases are caused to rotate in their travel downwardly through and from said casing, a dust-collection bunker below and in communication at its top with said casing through the open bottom of the latter, a gas discharge pipe extending through the top of said casing downwardly a limited distance into said casing, a first wall in said bunker below the open bottom of said casing, second wall means substantially parallel to the axis of the casing connecting said first wall and the top of said bunker having at least one tangential slot for escape of the rotating gases into said bunker without having their direction of rotation changed, said first wall having therein an opening for return flow of the gases therethrough from said bunker upwardly to and through said casing substantially centrally of the latter to said discharge pipe, a third wall below and substantially parallel to said first mentioned wall, an annular set of spaced blades between said parallel walls in surrounding relationship to the space between said walls which is alined with the opening in said first mentioned wall, said blades being inclined to reverse the direction of rotation of the gases flowing from said bunker between said parallel walls to the opening in said first mentioned wall, and a second set of spaced blades between said parallel walls inwardly with respect to the blades of said first mentioned set effective to again reverse the direction of rotation of the gases and to return them to their original direction of rotation before they pass upwardly through the opening in said first mentioned horizontal wall.

2,590,481
TELEPHONE HANDSET ATTACHMENT
Alvin R. Vogel, Los Angeles, Calif.
Application October 23, 1950, Serial No. 191,541
9 Claims. (Cl. 179—188)



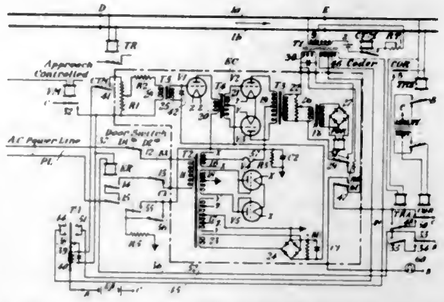
1. An attachment for hand telephones comprising: a hollow, virtually semi-spherical scoop-like member including a lune, a port adjacent thereto and provided with a skirt terminating in large part in an edge which is in the plane of a small circle of a sphere, said skirt being arranged to slidably fit and resiliently grasp the mouthpiece ring of a telephone; and a hollow movable hood in the form of a lune, said hollow hood being pivotally connected to the scoop-like member at points corresponding to the poles of a great circle for selective slidable movement over said member and over the port therein to selectively close the port.

2,590,482
ENERGY ABSORBING STOP
Emil Albert Volk, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 11, 1947, Serial No. 760,363
4 Claims. (Cl. 192—138)



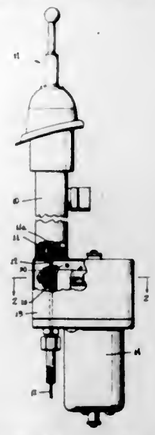
1. In a device comprising a member linearly movable oppositely within given limits, rotatable driving means for said member, and a train of gears connected to said driving means including on oppositely rotatable element rotatable through substantially one revolution in each direction while said member moves in a corresponding direction between said limits, the combination of a resilient arm pivoted about the axis of and relative to said element, said resilient arm extending substantially along the axis of symmetry of said member, driving means and gears, stop means outwardly of said arm and substantially along the axis of symmetry so as to prevent rotation of the arm about the axis of said element, and means carried by said element adapted to engage said arm substantially along said axis of symmetry and at positions between the axis of said element and said stop means, and said stop means being arranged at opposite sides of the arm.

2,590,483
TRACK CIRCUIT APPARATUS USING ALTERNATING CURRENT
Carl Volz, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application December 20, 1946, Serial No. 717,482
13 Claims. (Cl. 246—34)



1. In combination with a track circuit to which alternating current is to be supplied, a tuned alternator having a member which is vibrated when current is supplied to an operating winding through a contact actuated by said member; an electron tube having an anode, a grid and a cathode; an anode-cathode circuit including a source of unidirectional current for said tube, a grid cathode circuit for said tube having connections across said operating winding of said tuned alternator to vary the current flowing in said anode-cathode circuit at a rate determined by the rate of operation of said tuned alternator, and circuit means coupled to said anode-cathode circuit and having connections to said track circuit to supply an alternating current to the track circuit due to said variations of the current flowing in said anode-cathode circuit.

2,590,484
DRIVE MECHANISM FOR EXTENDIBLE ANTENNAS
Joseph Youhouse, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application December 23, 1949, Serial No. 134,671
10 Claims. (Cl. 250—33)



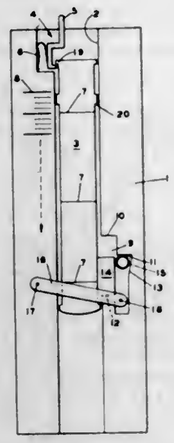
1. In an antenna having an elongate, longitudinally extendable and retractable section and a friction driving strip connected to actuate said section, means for driving said friction strip

comprising a pulley having two relatively axially movable halves presenting opposed faces for engagement with different surfaces of said strip; a rigid backing plate disposed at the rear of one pulley half; and means including a member of resilient, yieldable rubber-like substance, interposed between said backing plate and one pulley half for yieldably maintaining both said halves in continuous pressing engagement with the driving strip during rotation of the pulley, said plate and pulley half engaging directly opposite surfaces of the resilient member.

2,590,485
PROCESS OF TREATING YELLOWISH OR OFF-WHITE MATERIALS TO OBTAIN A WHITE APPEARANCE USING UMBELLIFERONE OR METHYL UMBELLIFERONE
Hans Meyer, Richmond, England, assignor, by mesne assignments, to Lever Brothers Company, Cambridge, Mass., a corporation of Maine
No Drawing. Application July 13, 1943, Serial No. 494,590. In Great Britain June 2, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires June 2, 1959
3 Claims. (Cl. 117—33.5)

1. The process of treating materials having a yellowish off-white tint, which comprises contacting the same uniformly with a compound selected from the group consisting of umbelliferone and methyl umbelliferone which when dissolved produces a blue fluorescence, as the only material to affect the characteristics of the materials being treated, in a solution of a mild alkaline material to facilitate the solubility of the compound and enhance its fluorescence, whereby the yellowish off-white tint is eliminated and a white appearance is obtained.

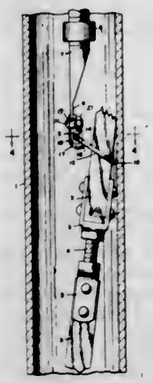
2,590,486
SCLEROSCOPE AND CLUTCHING MECHANISM THEREFOR
Fred B. Aubert, Grosse Pointe, Mich.
Application February 23, 1950, Serial No. 145,859
12 Claims. (Cl. 73—79)



1. A scleroscope comprising a supporting member defining a guideway, a hammer plunger of a magnetic material positioned for dropping and rebound movement in said guideway, upper and lower stops disposed along said guideway, said guideway having a lateral recess between said stops having a portion of reduced width forming a side stop, a magnet movable between said stops and initially seated against the lower of said stops, said magnet being movable by said plunger toward said upper stop upon rebound movement thereof, and a wedging member of magnetic material in said recess and initially adjacent the upper end of said magnet and movable by said magnet into wedging relation to said magnet and said plunger upon movement of said magnet to said upper stop.

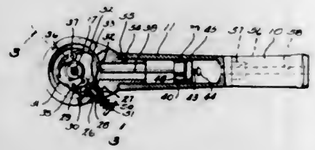
10. In combination, a movable member of magnetic material arranged to have movement first in one direction and then in the opposite direction, a plurality of stops adjacent said movable member; a magnet engaging said movable member as a brake shoe, movable between two of said stops, and initially seated against one of said stops; said magnet being movable by said movable member toward the second of said stops upon movement thereof in said opposite direction, the third one of said stops being spaced laterally from said magnet at a point between the other two stops, and a wedging member of magnetic material movable by said magnet into a wedging position between said magnet and the third stop upon movement to said second stop and operable thereby to apply a braking force to said movable member at any point of movement that said movable member attempts to reverse its direction of movement from said other direction to said one direction.

2,590,487
WELL ROD GRAB
Raymond E. Axelstrom, Chicago, Ill.
Application November 30, 1948, Serial No. 62,698
3 Claims. (Cl. 294—92)



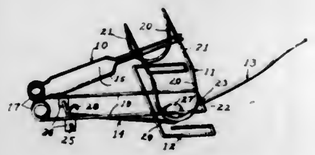
1. A well rod grab, comprising a fishing shank, a slip-grab member pivoted on a transverse axis on said shank, and a spring normally supporting said member in a downwardly and outwardly inclined position with respect to said shank, said member comprising a plate having an aperture spaced outward from said pivotal axis and shaped to receive freely an article to be retrieved, the sides of said aperture and the external edges of said plate being shaped to meet so as to form opposed pointed horns converging toward each other at their tips to form a gap of less width than the diameter of said aperture, said horns being symmetrically spaced from a plane radial to the axis of said shank at right angles to said pivotal axis.

2,590,488
SMOKING PIPE
Ernest P. Bade, Milwaukee, Wis.
Application February 27, 1947, Serial No. 731,223
2 Claims. (Cl. 131—171)



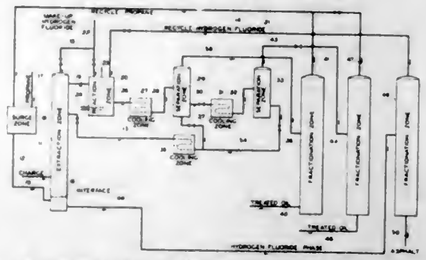
1. A smoking pipe comprising a tobacco bowl, a stem having an enlarged bore for a portion of its length, a piston assembly reciprocable therein and having vent means longitudinally therethrough, a bell crank subjoined to said bowl for actuating said piston assembly, a pusher-pin extending exteriorly of the base of said bowl and connected to said bell crank, and spring means for maintaining said pusher-pin in extended position.

2,590,489
MOLE TRAP
Edward V. Bailey, Santa Paula, Calif.
Application August 13, 1946, Serial No. 690,185
1 Claim. (Cl. 43—86)



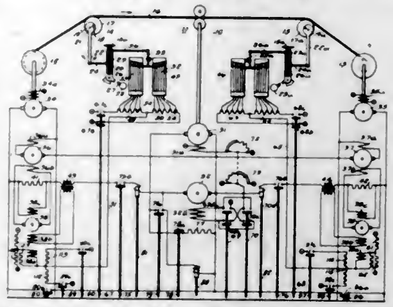
In a mole trap, a body formed of a length of wire to provide a lower part and an upper part, said lower part being formed of a medial portion of the wire which is bent at its center to provide a relatively short transversely disposed straight front end portion and rearwardly extending parallel straight arm portions, coil springs formed at the rear ends of said arm portions and merging into forwardly directed arm portions, constituting the upper part, the latter arm portions having rear end portions thereof extending parallel to, above and slightly inward from the adjacent portions of the first arm portions and their free end portions extending in parallel closely spaced relation to a point above the approximate center of the said transverse straight portion, a substantially U-shaped frame disposed crosswise of the first arm portions inwardly of the forward ends thereof, the leg portions of said frame being angularly bent inwardly and rearwardly to provide partially enclosed spaces at the opposite sides of said lower part, a second open frame disposed crosswise of the free end portions of the said upper part and having its ends made arcuate and down-turned to enter the said partially enclosed spaces whenever the upper part is depressed toward the lower part, a pair of transversely aligned ears depending from the first arm portions adjacent the said springs, a trigger member pivoted in said ears and extending forwardly beneath the center of the lower part, a trigger pull at the forward end of said trigger member, and a latch member pivoted on said transverse straight portion and extending rearwardly for engagement with said trigger member.

2,590,490
PROCESS FOR REFINING LUBRICATING OIL
Bruce C. Benedict, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 24, 1948, Serial No. 28,810
6 Claims. (Cl. 196—14.20)



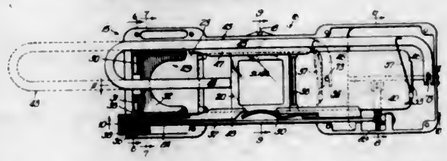
1. A process for refining lubricating oil which comprises introducing a lubricating oil stock, a normal paraffin hydrocarbon solvent containing not more than 4 carbon atoms per molecule, and a hydrogen fluoride-rich phase from a reaction zone to an extraction zone wherein said oil is extracted at a temperature in the range of 100 to 210° F. and a pressure above the vapor pressure of the constituents with said solvent and said hydrogen fluoride-rich phase, removing said hydrogen fluoride-rich phase from said extraction zone, removing a solvent-oil phase from said extraction zone to a reaction zone wherein it is reacted with hydrogen fluoride at a temperature in the range of 300 to 400° F. and for a reaction time in the range of 10 minutes to 5 hours, separating effluent from said reaction zone into a solvent-oil phase and a hydrogen fluoride-rich phase which latter is recycled to said extraction zone as aforesaid, and separating said solvent-oil phase from said extraction zone into solvent which is recycled to said extraction zone and treated oil which is recovered as a product of the process.

2,590,491
CONTROL SYSTEM
Waldemar I. Bendz, Weston, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 2, 1945, Serial No. 602,861
8 Claims. (Cl. 318—6)



1. An electric drive comprising, a main motor, a pair of motors each having a mechanical connection with the main motor, a main generator for supplying variable voltage power to said motors, a booster generator individual to each motor, a regulator exciter individual to each booster generator operable to control the excitation thereof, a regulator for controlling the excitation of each regulator exciter, said regulators being actuated in accordance with operating conditions of their mechanical connections with the main motor, means operable to connect the booster generators in closed circuit relation with their associated motors and control the operation of their associated regulator exciters to selectively operate each motor in either direction of rotation to effect jogging operations, means operable to connect said booster generators in series circuit relation with their associated motors to the main generator and render the regulators effective to control their associated regulator exciters, thereby to establish stalled tension operating conditions of the mechanical connections on opposite sides of the main motor, and means operable thereafter to connect the main motor to the main generator.

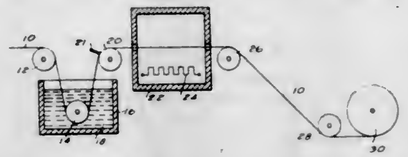
2,590,492
SLIDE CHANGING DEVICE FOR STEREOPTICON PROJECTORS
Frank P. Bennett, Riverside, and Albert E. Webb, Chicago, Ill., assignors to Three Dimension Company, Chicago, Ill., a corporation of Illinois
Application August 17, 1949, Serial No. 110,762
20 Claims. (Cl. 88—28)



1. A slide changing device for a stereopticon projector having light beam projecting means comprising, in combination, a tray for storing a plurality of slides in parallel juxtaposed position, mounting means on said device for supporting said tray parallel and to one side of said light beam, shutter means on said device movable horizontally across said light beam, an operating member separate and distinct from said shutter means, guide means on said device directing said operating member for horizontal movement, and a rigid member transmitting the horizontal movement of said operating member in opposite horizontal directions thereby to apply forces in opposite directions to the slide in said tray in alignment with said shutter means to move said slide horizontally out of said tray into registry with said light beam and then back into said tray, said slide moving said shutter means out of registry with said light beam on movement out of said tray and being accompanied by movement of said shutter into registry with said light beam on movement of said slide back into said tray.

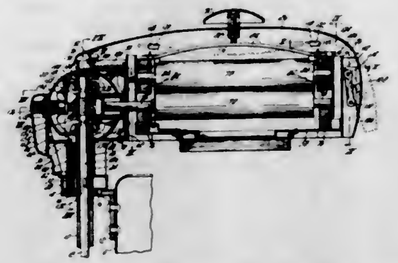
2,590,493
FLEXIBLE SILICEOUS SHEET MATERIAL, PROCESS OF MAKING, AND COMPOSITION THEREFOR
Leo J. Berberich and Orville E. Anderson, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1946, Serial No. 706,759
8 Claims. (Cl. 117—46)

4. In the process of producing a flexible sheet material from a sheet of glass fibers carrying an organic lubricant capable of carbonization at a temperature of from 300° C. to 320° C., the steps comprising applying to the sheet of glass fibers, in an amount equal to from 5% to 15% of the weight of the glass fibers, a coating of a composition composed essentially of (*a*) from 99% to 50% by weight of a fluid polymerizable phenyl methyl polysiloxane in which the phenyl groups comprise at least 20% of the total number of phenyl and methyl groups and (*b*) from 1% to 50% by weight of a liquid terphenyl hydrogenated at least 40%, heat-treating the coated sheet of glass fibers at a temperature of from 300° C.



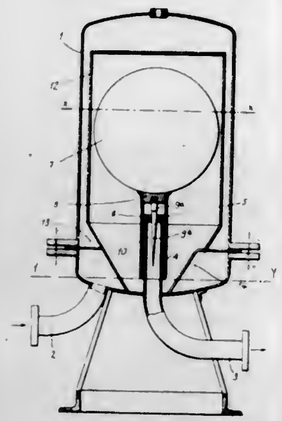
to 320° C. for a sufficient period of time to volatilize and carbonize the organic lubricant but not sufficient to deteriorate substantially the phenyl methyl polysiloxane or to evaporate an excess of the hydrogenated terphenyl, and applying an additional coating of the said composition, and heat-treating the sheet with the applied coating to polymerize the phenyl methyl polysiloxane.

2,590,494
WRINGER ASSEMBLY HAVING INTERCONNECTED ROLL PRESSURE AND DRIVE
William B. Beuscher, Kansas City, Mo., assignor, by mesne assignments, to Appliance Engineering Co., Kansas City, Mo., a corporation of Missouri
Application May 23, 1949, Serial No. 94,807
3 Claims. (Cl. 68—253)



1. A wringer assembly for washing machines comprising a frame, a pair of wringer rolls carried rotatably by said frame in parallel relation, a wringer drive housing secured to the inner end of said frame, a top rail extending over the upper of said wringer rolls and over said drive housing, a resilient member disposed between said top rail and said upper roll whereby said upper roll is urged against the lower of said wringer rolls, a power driving connection extending through said drive housing to the lower wringer roll, suitable clutch means within said housing for making, breaking, or reversing said driving connection, a toggle joint connecting the outer end of said top rail with said frame and normally securing said top rail against upward or longitudinal movement, a release handle carried by said top rail and manually operable to break said toggle joint to permit upward and longitudinal movement of said top rail, a lever pivotally carried in said drive housing and having one of its arms secured to the inner end portion of said top rail to hold said rail down, pivotal movement of said lever being normally prevented by its engagement with said top rail, and means operable by said lever whenever said top rail is freed by operation of said release handle to return said clutch means to its neutral position.

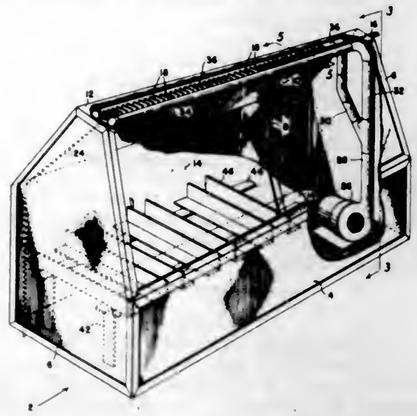
2,590,495
FLOAT-OPERATED DRAINING DEVICE
André Bienaimé, Pierrefitte, France
Application February 21, 1947, Serial No. 730,147
In France May 26, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 26, 1964
2 Claims. (Cl. 137—103)



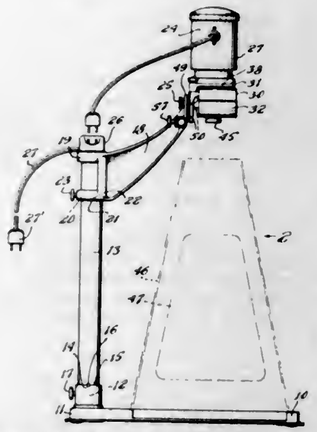
1. A float-operated draining device comprising a container having an inlet opening, an outlet tube extending through the bottom of said container and vertically upwards into said container, a plane horizontal valve seat formed with a central outlet opening at the upper end of said outlet tube, a float vertically movable in said container, a valve secured to said float, said valve comprising a plane valve base adapted to seat on said valve seat and a conical valve spindle centrally mounted on said valve base and depending vertically therefrom into said outlet opening, the maximum diameter of said valve spindle at its base being smaller than the diameter of said outlet opening so as to form a narrow annular passage between said valve spindle and said outlet opening when said valve base is lowered into engagement with said plane valve seat, and a cylindrical depending, laterally imperforate sleeve secured to said valve base and surrounding said outlet tube, the inner diameter of said depending sleeve being slightly greater than the outer diameter of said outlet tube, and the length of said depending sleeve being such that its lower end is near the bottom of said container when said valve base is seated upon said valve seat.

2,590,496
REFRIGERATED CASE WITH FORCED CIRCULATION OF AIR
Eldon Bockmeyer, Philadelphia, Pa.
Application August 6, 1949, Serial No. 108,981
3 Claims. (Cl. 62—89.5)

1. A refrigerated storage chamber comprising a casing, spaced metal cooling fins located in the upper portion of the casing, said fins being angularly disposed so as to have one end lower than the other and having roughened surfaces, a refrigerating coil passing through said fins, a drain trough located below the lowest point of said fins, the width of the trough being relatively small in comparison with the width of each fin, a blower located within said casing and a pair of air ducts connected to the discharge side of said blower and disposed on opposite sides of the fins, the ducts having openings facing the coil and lying in a substantially horizontal plane to provide oppositely directed streams of air to pass through the fins and coil.



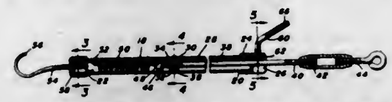
2,590,497
COMBINED CAMERA AND PROJECTOR ARRANGEMENT
Jacques Bolsey, New York, N. Y.
Application October 11, 1949, Serial No. 120,637
2 Claims. (Cl. 88—24)



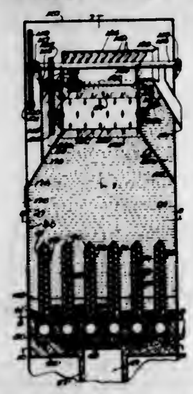
1. A photographic arrangement comprising in combination a plate-shaped horizontal base having a rear edge; a vertical post; an annular holding member on said plate-shaped horizontal base near said rear edge thereof, slidably enclosing and thereby easily detachably holding the lower end portion of said vertical post; locating means combined with said annular holding member for preventing turning of said vertical post relative to said plate-shaped horizontal base while slidably enclosed and easily detachably held by said annular holding member; a forward projecting arm; an annular attaching sleeve at the rear end of said forward projecting arm easily removably slid over the upper end of said vertical post; locating means for preventing sliding down of said annular attaching sleeve along said vertical post and turning of said sleeve relative to said post; attaching means at the front end of said forward projecting arm for easily detachably attaching thereto a photographic device; an electric light source forming part of said photographic device; a first electric cord secured at one end to said electric light source; a first electric plug secured to the other end of said first electric cord, said first electric cord and first electric plug being detachable together with said photographic device; an electric socket mounted on said forward projecting arm into which said first electric plug might be plugged; a second electric cord secured at one end to said electric socket; and a second electric plug secured to the other end of said second electric cord and adapted to be connected with a source of electric current.

2,590,498
CHECK WIRE TENSION MEASURING APPARATUS
Harry H. Bomberger, Hershey, Pa.
Application August 3, 1949, Serial No. 108,301
1 Claim. (Cl. 73—143)

In a wire tension checking device, an elongated tube, apertured cap members threaded onto the ends of said tube, a rod slidably extending through the aperture in one of said cap members, resilient means in said tube and attached to the inner end of said rod, said rod having a flattened portion, a threaded pin arranged in the flange of the last-mentioned cap member and engageable with said flattened portion for locking said rod, means on the outer end of said rod for fastening same to an anchor member, a hook member having a shank passing through the aperture of the other cap member and threadedly engaged therein, the free end of said shank being secured to the opposite end of said resilient means and means for indicating the extent of movement of said rod relative to said tube.

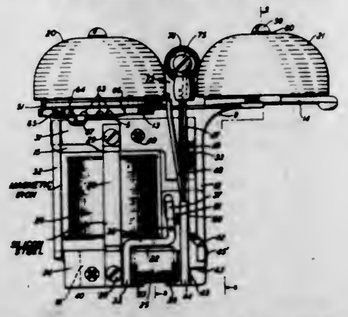


2,590,499
ICE-MAKING MACHINE
James W. Braswell, Jr., Wilmington, N. C.
Application January 18, 1949, Serial No. 71,435
12 Claims. (Cl. 62—105)



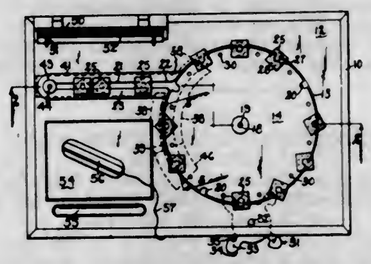
1. An ice making machine, comprising a tank to contain water, freezer elements mounted within the tank and submerged in the water and adapted to have pieces of ice formed thereon which float toward the top of the tank, rotary crusher elements mounted within the tank above the freezer elements and submerged in the water and adapted to crush the pieces of ice into fragments as the pieces float upwardly between the rotary crusher elements, guide means mounted within the tank for conducting the floating pieces of ice between the inner sides of the rotary crusher elements and forming outer water circulating passages with the sides of the tank and adjacent to the outer sides of the rotary crusher elements, driving means to rotate the rotary crusher elements so that their inner sides travel upwardly and their outer sides travel downwardly, and a rotary conveyor element mounted upon the tank above the rotary crusher elements and adapted to receive the fragments of ice as they float upwardly from the rotary crusher elements for conveying the same from the rotary crusher elements.

2,590,500
TELEPHONE RINGER
Harold A. Bredehoft, Millington, and Max S. Richardson, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 9, 1949, Serial No. 86,518
8 Claims. (Cl. 177—7)



7. The combination in a telephone ringer of a gong, clapper means for striking said gong, an armature supporting said clapper means, electromagnetic means for vibrating said armature including a coil supporting core, a unit pole-piece associated with said core and effecting an air-gap, and a bar type polarizing permanent magnet, and a spring type hinge supporting said armature on said unit pole-piece for vibration in said air-gap, said spring hinge having its axis of flexure located at right angles to and on an extension of the polar axis of said permanent magnet.

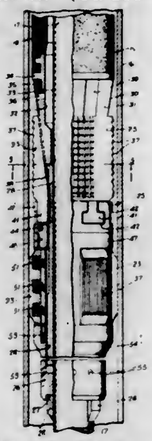
2,590,501
EDUCATIONAL TOY
William S. Brodes, New Haven, Conn.
Application December 31, 1949, Serial No. 136,312
12 Claims. (Cl. 35—73)



1. An educational toy comprising a base member having a circular aperture therein and a slot opening into said aperture, a turntable rotatably

mounted in the aperture, the upper surface of which is substantially in the same plane as that of the upper surface of the base member, said turntable having a plurality of spaced apart recesses opening through the edge thereof adapted to selectively communicate with said slot, blocks rotatably supported in said recesses to be moved by the rotation of the turntable to a position opposite the mouth of the slot, and means on the base member arranged to engage a part of the blocks during rotation of the turntable and rotate the blocks relatively to the turntable.

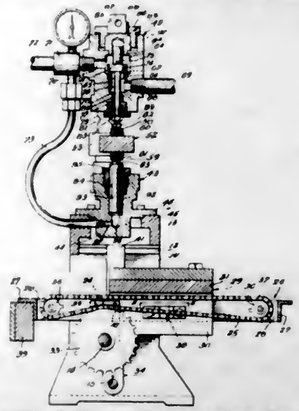
2,590,502
SLIP EXPANDER ASSEMBLY FOR WELL TOOLS
Cicero C. Brown, Houston, Tex.
Application November 22, 1948, Serial No. 61,450
2 Claims. (Cl. 166—12)



1. In well tools of the hook-wall type, an improved slip and slip-expander assembly, comprising, an expander shaped in the form of a regular polygonal pyramid, slip members disposed for longitudinal sliding movement on the several faces of said expander, the inner surfaces of said slip members being generally flat and of complementary slope to said faces, interlocking longitudinally splined connections between said slip members and said faces, a segmental collar member having at one end thereof radially movable inter-locking tongue-and-slot connections with the base of each of said slip members and an externally threaded extension at its other end, an internally threaded tubular keeper member threadedly engageable about said extension, said collar member being composed of a plurality of separable arcuate segments having radially abutting end faces, a socket having a closed end in one of said end faces of each of said segments, and a dowel embedded in the other end face of each of said segments and slidable into the opposed socket in the adjacent end face for circularly joining said segments.

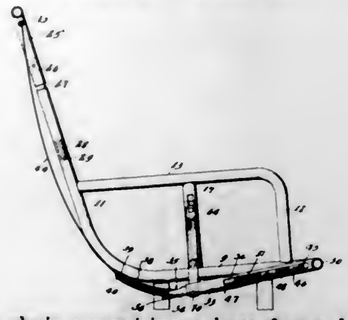
2,590,503
HYDRAULIC PRESSURE CONTROL APPARATUS
Benjamin Brownstein, Ellwood City, Pa.
Application March 25, 1946, Serial No. 656,882
6 Claims. (Cl. 137—153)

6. For use in connection with a fluid pressure generator and a machine operated thereby and connected thereto by a pressure delivery pipe line; a flow and pressure controller comprising a fluid actuated ram, means for imposing a variable resistance to the actuation of the ram under fluid pressure, a valve unit including a housing having a fluid inlet and a fluid outlet, a valve element interposed between and normally closing fluid flow from the inlet to the outlet, means by which the ram when actuated a prescribed distance against said resistance functions to apply thrust to the valve element tending to unseat the latter, means for conducting fluid from the pressure delivery pipe line simul-



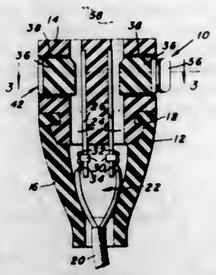
taneously and at the same pressure through said inlet and against the ram, means by which the full fluid pressure delivery through said inlet is applied to the valve element at a pressure closely approaching the fluid actuated thrust of the ram to oppose movement of the valve element from its seat by the thrust applied by the ram, said last means comprising a stem integral with the valve element, a guide opening into the housing upon the fluid inlet side of the valve element in which said stem has a snug sliding fit, and means for conducting the fluid into the guide behind the stem.

2,590,504
CHAIR HAVING RESILIENTLY MOUNTED SEAT AND BACK
Orville S. Caesar, Barrington, Ill.
Application March 15, 1946, Serial No. 654,531
9 Claims. (Cl. 155—53)



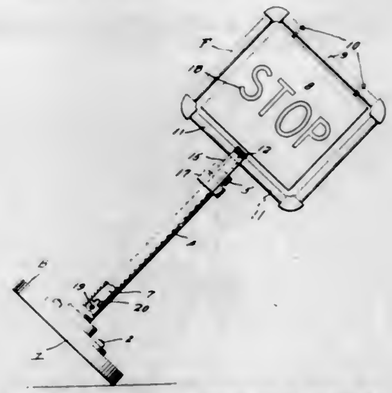
3. A chair comprising a base frame having a downwardly swingable seat frame, flexible material providing back- and seat-forming portions, means securing the back-forming portion of said material to the base frame for yielding downward motion, means securing said back-forming portion of the material to the rear of the seat frame to be moved downwardly thereby, and means securing the seat portion of the material to the seat frame to form a seat.

2,590,505
INTERLOCK FOR ELECTRICAL CONNECTORS
Otto Carlsen, Monrovia, Calif.
Application August 10, 1949, Serial No. 109,607
1 Claim. (Cl. 173—343)



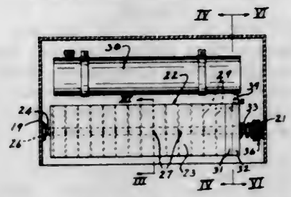
In an electrical connector, the combination of an elongated body provided in one end thereof with a set of longitudinally extending slots having inner and outer opposing walls, a set of flat conductor members provided at the inner walls of the respective slots and spaced from the outer walls whereby to receive therebetween the prongs of an attachment plug, the side wall of said body being formed adjacent the slotted end thereof with a perimetric keeper groove and with a set of recesses extending inwardly from said groove to the outer walls of the respective slots, a set of prong clamping blocks slidable inwardly and outwardly in said recesses, an expansible and contractible band positioned in said groove in engagement with outer ends of said blocks, the ends of said band being provided with a pair of spaced out-turned ears, an adjustable fastening element attached to one ear and extending slidably through the second ear, an eye on said element adjacent said second ear, and a cam pivoted to said eye and operatively engaging said band, whereby the latter may be contracted to frictionally engage inner ends of said blocks with prongs inserted in said slots.

2,590,506
PORTABLE TRAFFIC SIGN
Gerald M. Carter, Ocala, Fla.
Application September 7, 1949, Serial No. 114,364
5 Claims. (Cl. 40—125)



1. A signal device comprising a circular base, a tubular column carried by the base at substantially the axial center thereof, a standard telescopically engaged with the column and having endwise movement independently of the column, means for limiting outward movement of the standard relative to the column, a signal unit carried by the outer extremity of the standard, said standard moving by gravity inwardly of the column when the column is placed in upright position, and means for locking the column and standard against rotation one with respect to the other after the upright has been moved inwardly of the column, outward movement of the standard with respect to the column releasing the locking means for free rotation of the base as a wheel for shifting the device.

2,590,507
INKING ROLL AND INK FEED MECHANISM THEREFOR
James Lee Carver, Birmingham, Ala.
Application December 9, 1949, Serial No. 132,071
5 Claims. (Cl. 101—367)



1. In apparatus for inking printing rolls and the like, a rotary roll of ink absorbent material, a tubular axle at the center of the inking roll having a plurality of openings along the length thereof, a wick in the tubular axle extending substantially the length of the inking roll, a plurality of wicks smaller in transverse sectional area than the wick in the axle having one end disposed in the bore of the axle and the other end extending into the roll of ink absorbent material, and a rotary valve operable upon rotation of the roll to supply the bore of the axle with a predetermined quantity of ink.

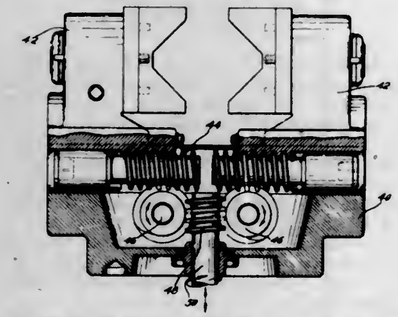
2,590,508
TOY WITH AUTOMATIC DOOR
Richard N. Carver and Raymond J. Lohr, Erie, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application March 9, 1948, Serial No. 80,345
7 Claims. (Cl. 160—192)



1. A toy building comprising a door including an upper panel hinged at its top edge, a lower panel hinged to the upper panel by means of a panel hinge, said lower panel being wider vertically than said upper panel, a guide pin for said lower panel at a point displaced downwardly from the panel hinge an amount equal to the distance between the door hinge and the panel hinge, stop means to prevent folding of the door with the panel hinge moving inward but per-

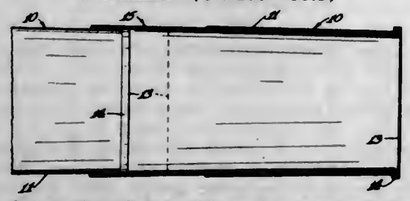
mitting folding of the door with the panel hinge moving outward, said panel hinge being offset inwardly from a line between the door hinge and the guide pin, a pull spring connected at its lower end to the lower panel and having a line of force extending upwardly between the panel hinge and the door hinge, whereby the door remains closed, said arrangement constituting the sole means for keeping the door closed, the arrangement being such that a slight inward movement of the portion of the lower panel beneath the guide pin displaces the panel hinge outward to the same side of the line of force as the door hinge, whereupon the spring pulls the door panels upward to fully open position, the portion of the lower panel beneath the guide pin being provided with an outwardly projecting bumper protuberance of appropriate height to be engaged by a toy vehicle approaching the door for entry.

2,590,509
POWER ACTUATED CHUCK
Albert E. Church, New Britain, Conn., assignor to Union Manufacturing Company, New Britain, Conn., a corporation of Connecticut
Application May 14, 1948, Serial No. 27,117
4 Claims. (Cl. 279—117)



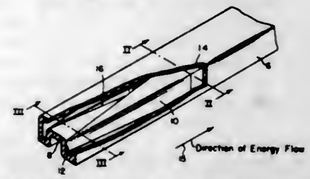
4. A work clamping chuck comprising a body member, jaws slidable radially therein, toothed members extending in the direction of movement of said jaws and rotatably mounted therein, threaded means to individually adjust the radial position of said jaws relative to their threaded members, worm gears rotatably mounted within said body member and individually meshing with said threaded members on said jaws, a worm within said body member meshing with said worm gears, and a shaft carrying said worm extending centrally and axially within said chuck, whereby axial or rotative movement of said shaft will radially actuate said jaws.

2,590,510
APPARATUS FOR MAKING CHEESE
Carl Cohen and Marvin L. Cohen, Waupaca, Wis.
Application December 15, 1949, Serial No. 133,125
8 Claims. (Cl. 100—55.5)



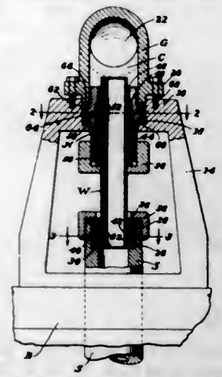
1. Apparatus for making cheeses including a frustro-conical hoop having its smaller end provided with a bottom and its larger end open, said smaller end having an annular flange extending radially outwardly, and a split sleeve of greater length than that of said hoop and removably receivable therein and extending to the bottom thereof, said sleeve being flexible to assume the general shape of said hoop when inserted therein to form a curd receiving unit, and the bottom and flange of one unit being receivable within and closely fitting the sleeve of an adjacent similar unit to form a follower around which the curd in the adjacent unit cannot escape during compression of the curd.

2,590,511
RIDGED WAVE GUIDE ATTENUATOR
Floyd B. Craig, Pitcairn, and Richard H. Webb, Turtle Creek, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 1, 1949, Serial No. 119,179
3 Claims. (Cl. 178—44)



1. An attenuator for a ridged waveguide comprising a resistive material inserted in said ridged waveguide, said resistive material substantially filling the ridged waveguide at one part of the ridged waveguide and thence tapering inward gradually from the sides of the guide in such manner that said attenuator ends with a thin layer of resistive material surrounding the re-entrant portion of said waveguide inside of said waveguide, said resistive material having a slot therein, said slot being more than a wave length long as measured in the waveguide, and said slot being located above the ridge extending in a longitudinal direction and with its wider portion at the thin end of the attenuator.

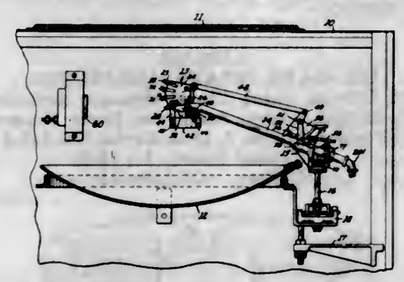
2,590,512
OIL WELL SWIVEL
Robert L. Crain, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a corporation of Texas
Application July 8, 1946, Serial No. 682,023
2 Claims. (Cl. 285—97.1)



1. In an oil well swivel, a body having means for suspending same in the derrick, a swivel tube

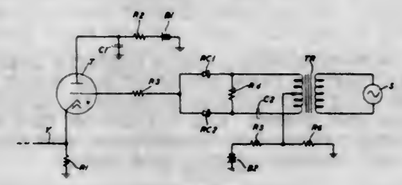
extending upwardly into said body, said body having means for supporting said tube for rotation therein, said tube having means adjacent its lower end for connection with the rotary drilling string and being thereby subject to the bending movements incident to rotary drilling operations, said body having an enclosure at its upper end which forms a closed chamber for conveying fluid into said tube and into said drilling string, a wash pipe connected between the upper ends of said tube and body to form a fluid connection between said chamber and said tube, means joining and sealing the lower end of said pipe with the upper end of said tube while providing for limited and universal misalignment of said pipe during rotary drilling operations, and a sealed driving connection between the lower end of said pipe and the upper end of said tube providing for the rotation of said pipe with said tube and for limited and universal misalignment of said pipe during rotary drilling operations, said connection including a packing chamber on said tube to receive the lower end of said pipe and loosely interfitting radially presented key members and grooves on said tube and said pipe, and a quantity of yieldable packing compressed in said packing chamber between said pipe and said tube.

2,590,513
VENTILATED LIGHT-RESPONSIVE LAMP-CHANGING MECHANISM FOR LIGHTING UNITS
Royal E. Crossley, Fayetteville, and Harlow M. Pattat, North Syracuse, N. Y., assignors to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application February 19, 1947, Serial No. 729,556
6 Claims. (Cl. 240—37.1)



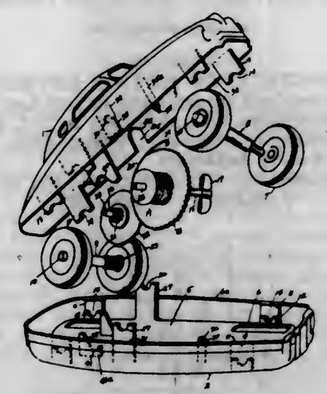
1. A lamp changing mechanism for lighting units comprising a tubular support arranged in the unit and being connected at one end to a supply of cooling medium and terminating at its inner end in juxtaposition to the focal axis of the unit, a lamp carrier movably mounted on the inner end of said support and being adapted to carry a series of at least three lamps and being movable to successively position the lamps of said series in the focal axis of the unit, a nozzle secured to the inner end of said tubular support and arranged to discharge the cooling medium on the lamp positioned in said focal axis, and means operable when the light output of the lamp positioned in said focal axis drops to a predetermined intermediate percentage to effect movement of said carrier to position the next succeeding lamp in said focal axis.

2,590,514
PULSING CIRCUIT
Joseph W. Dehn, Great Neck, and William H. T. Holden, Woodside, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application May 17, 1946, Serial No. 670,358. Divided and this application September 28, 1948, Serial No. 51,591
2 Claims. (Cl. 250—27)



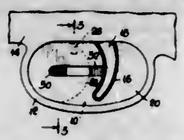
1. A pulse generator comprising a source of alternating potential, means responsive to said alternating potential for producing two alternating potentials having a phase difference of less than 180 degrees and having greater negative than positive amplitude, rectifying means responsive to the negative half cycles of said two alternating potentials, means responsive to said rectifying means for producing pulses, and means responsive to said pulse producing means for suppressing a part of each of said pulses.

2,590,515
WHEELED TOY
Philip A. Derham, Rosemont, Pa., assignor to Louis Marx & Company, New York, N. Y., a corporation of New York
Application October 20, 1948, Serial No. 55,543
10 Claims. (Cl. 46—206)



1. In a vehicle toy, longitudinally split upper and lower body sections having respectively downwardly and upwardly extending registering side walls, an axle received between the body sections, said axle being short enough to be received within said side walls, whereby said side walls are unmarred by bearing holes for said axle, and projections on the inner surfaces of the side walls having mating edges forming a bearing for the axle.

2,590,516
TRIGGER SAFETY FOR FIREARMS
Maruja Acosta de von Breymann, San Jose, Costa Rica
Application December 30, 1948, Serial No. 68,217
In Costa Rica January 2, 1948
2 Claims. (Cl. 42—70)

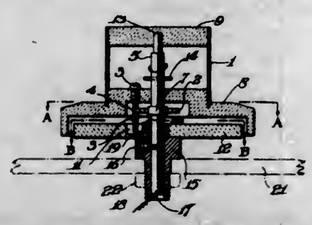


1. A firearm comprising: a trigger, a guard for said trigger, a block fitting in said guard, said block being provided with a recess for accommodating said trigger, and a plate on said block movable between two end positions, said plate in one end position covering said recess.

2,590,517
METHOD FOR THE PREPARATION OF PEPTONE AND AMINO ACID CONTAINING EXTRACTS FROM PRESS WATER
Christian Drangsholt, Oslo, Norway
No Drawing. Application March 22, 1948, Serial No. 16,402. In Norway March 27, 1947
2 Claims. (Cl. 195—29)

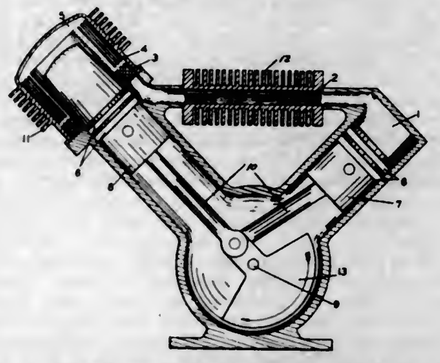
1. A method for the preparation of peptone and amino acid from a solution containing protein and fatty materials comprising the steps of alkalizing the solution to a pH value of 8 to 9, subjecting the alkaline solution to proteolysis by means of pancreatin to split the protein in the solution into polypeptides, peptones and amino acids, and to form insoluble fatty acid salts, adding bile to the solution subsequent to the addition of pancreatin, whereby the lipase of the pancreatin is activated to accelerate the decomposition of the fatty materials present in the solution into fatty acids, thereafter separating the insoluble components by filtration, and evaporating the solution to recover the soluble components.

2,590,518
KINETIC STOP MOTION DEVICE
William Lankford Duncan and Ernest Lee Griggs, Jr., Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 2, 1948, Serial No. 18,616
7 Claims. (Cl. 200—52)



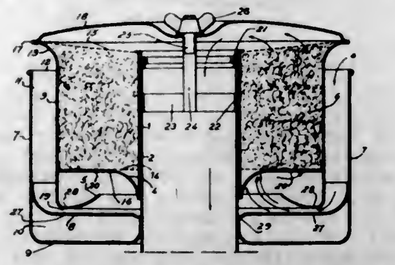
1. Apparatus for detecting failure in a filament kept running by a feeding mechanism which comprises an electrical switch; a pivoted member rotatable by said filament in the direction of travel of said filament when it is running in frictional contact with the outer surface of said member; and means for rotating said member in the reverse direction upon filament failure to alter said switch, whereby stoppage of the feeding mechanism is effected.

2,590,519
HOT-GAS ENGINE OR REFRIGERATOR
Frits Karel du Pre, White Plains, N. Y., assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 21, 1948, Serial No. 3,452
9 Claims. (Cl. 60—24)



1. A closed cycle hot-gas apparatus having elements comprising means defining a hot chamber, means defining a cold chamber, a regenerator having a heat transfer ratio of between .9 and 1.0, a quality coefficient of between 0.05 and 0.6 and a heat capacity at least about two and one-half times the heat capacity of the work medium flowing therethrough in one direction during one cycle, a heater interposed between the hot chamber and the regenerator and having a heat transfer ratio of between .2 and .75 and a quality coefficient of between 0.1 and 0.6, and a cooler interposed between the cold chamber and the regenerator, said cooler having a heat transfer ratio of between .2 and .75 and a quality coefficient of between 0.1 and 0.6, each of said elements being arranged in open communication with the adjacent element.

2,590,520
OIL-BATH INTAKE-AIR FILTER
André Duwos, Saint Cloud, France, assignor to Tecalemit, Societe Anonyme, Paris, France
Application March 3, 1950, Serial No. 147,384
In France March 15, 1949
2 Claims. (Cl. 183—15)



1. An air filter comprising a vertical tube for the delivery of the purified air connected at its lower end with air-sucking means, an annular receptacle delimited by an inner tubular wall fitted on said tube, an outer cylindrical wall coaxial with said tubular wall, a cover resting with its rim on the upper edge of said cylindrical wall and extending clear of the upper ends of said tubular wall and tube and a perforate annular bottom rigid at its inner edge with said inner tubular wall and at its outer edge with the said cylindrical wall, the latter being formed beyond

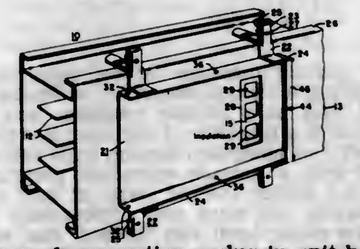
said perforate bottom with a downwardly-projecting extension bent inwards to an annular gutter below part of said perforate annular bottom, said gutter being perforated in its lowermost portion with a circular row of drip holes, a cloth ring laid on said perforate annular bottom, filtering material rested on said cloth ring and filling said annular receptacle, a cloth ring covering said filling, a double-bottomed casing surrounding said receptacle, rigid with said vertical tube and delimiting together with the outside of said annular receptacle an annular air-intake passageway, the perforate false-bottom of said double-bottomed casing delimiting a choked air-intake passageway together with the outside of said annular gutter and an oil sump together with the imperforate bottom of said casing.

2,590,521
AIRPLANE STALL WARNING SYSTEM
Howard E. Dyche, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 1, 1948, Serial No. 30,306
4 Claims. (Cl. 73—180)



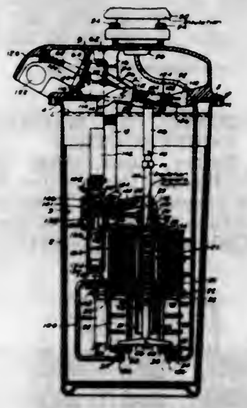
1. A device for use on airplanes in conjunction with stall warning systems to produce a pressure-differential in accordance with airflow conditions over the upper surface of a wing of the plane comprising; a main elongated tubular member adapted to be mounted in a backwardly inclined position; said tubular member being closed at its rear end and having an inlet opening in its front nose facing the direction of airflow over the wing surface, a side opening adjacent the front opening, and a discharge opening adjacent its closed rear end; an auxiliary tubular member mounted concentrically within the main elongated member and extending out through the closed rear end thereof; said auxiliary tubular member having a closed front end in spaced relation to the inlet opening in the nose of the main tubular member and a side opening adjacent its closed front end connected with the side opening in the main tubular member.

2,590,522
BUS DUCT PLUG IN ADAPTER
Lloyd W. Dyer and Gerald J. Freese, Beaver, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 9, 1949, Serial No. 80,396
5 Claims. (Cl. 175—307)



1. Means for mounting a plug-in unit housing having an openable cover and stab connectors extending from a side opposite the cover on a bus duct having an opening therein providing access to bus bars within the duct comprising, an adapter plate having an opening therein, clamping means secured to the adapter plate for adjustably attaching said adapter plate to the exterior of the bus duct with said openings in alignment, pivotal means for mounting the plug-in unit housing on the adapter plate with the stab connectors engaging the bus bars within the duct, and toggle mechanisms connected to the plug-in unit housing and the adapter plate for actuating the complete plug-in unit housing about its pivot point to disengage the stab connectors from the bus bars, said toggle mechanisms being operable to a locked position to retain the stab connectors in the disengaged position, said cover being openable without disengaging the connectors from the bus bars.

2,590,523
CIRCUIT INTERRUPTER CONTACT PRESSURE INCREASING DEVICE
Andrew W. Edwards, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 11, 1947, Serial No. 779,277
14 Claims. (Cl. 200—87)

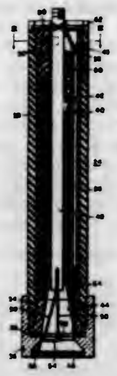


1. A circuit interrupter, comprising, separable contacts which are biased into engagement, contact separating means having a part movable a predetermined amount before causing separation of said contacts, means acting on said contacts and responsive to overload currents in the circuit to exert additional pressure on said contact, and means cooperating with said additional pressure means and positioned to be operated by said part at a point adjacent but spaced from the end of its aforesaid movement to render said additional pressure means substantially less effective just before said part causes separation of said contacts.

2,590,524
CIRCUIT INTERRUPTER
Andrew W. Edwards, East McKeesport, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 29, 1949, Serial No. 118,500
14 Claims. (Cl. 200—149)

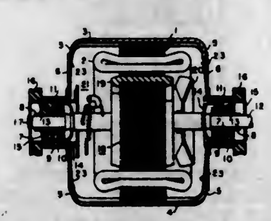
4. An electrical circuit interrupter comprising, separable arcing terminals normally held adjacent each other, means biasing at least one of said arcing terminals for rapid separation move-

ment, frictional braking means located adjacent said one arcing terminal, said one arcing terminal and braking means being relatively movable into and out of braking engagement, means for releasing said terminals and causing an arc



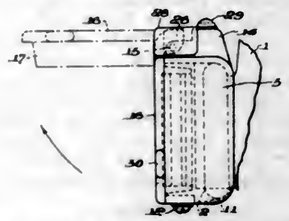
to be formed between said terminals, and current responsive means for causing relative movement of said one arcing terminal and braking means into engagement so that separating movement of said one arcing terminal will vary in accordance with the value of current in the circuit.

2,590,525
DYNAMOELECTRIC MACHINE CONSTRUCTION
Raymond W. Esarey, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 16, 1949, Serial No. 99,438
3 Claims. (Cl. 171—252)



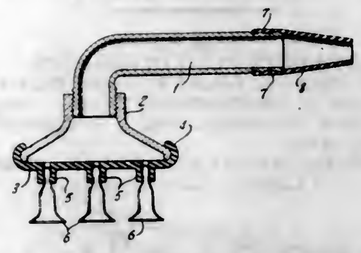
1. A dynamo-electric machine having a laminated stator core, a winding on said core, two longitudinal support members, said longitudinal support members being disposed on diametrically opposite sides of the core and secured rigidly thereto, the longitudinal support members extending axially beyond the ends of the core and having radially inwardly extending end portions, the outer surfaces of said end portions being accurately perpendicular to the axis of the stator core, elongated bearing support members disposed at opposite ends of the machine, each of said bearing support members having flat end surfaces lying substantially in the same plane, a bearing on each of said bearing support members, the axis of the bearing being accurately perpendicular to the end surfaces of the bearing support member, said bearing support members extending transversely of the machine, the end surfaces of the bearing support members engaging the outer surfaces of the end portions of the longitudinal support members and being rigidly secured thereto, and a rotor member supported in said bearings.

2,590,526
LIFT FRONT LENS HOLDER
Robert B. Evans, Natrona, Pa., assignor to Mine Safety Appliances Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 29, 1950, Serial No. 176,664
4 Claims. (Cl. 2—8)



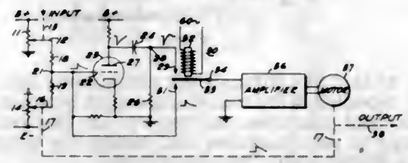
1. A lift front lens holder comprising a main frame adapted to be supported by the front of a face-shielding device and provided on top with a stationary hinge member having a transverse horizontal opening through it, a normally vertical cover frame in front of the main frame and provided on top with a movable hinge member having a transverse horizontal opening through it registering with said first-mentioned opening, said movable hinge member having a substantially straight front side, a hinge pin extending through said openings for hinging said frames together, a protective glass mounted in the cover frame, and a leaf spring secured to said stationary hinge member behind the movable hinge member and extending forward over the latter, said spring being positioned to press down on said front side of the movable hinge member with sufficient force when the cover frame is swung upward into substantially horizontal position to hold the cover frame in that position, and the spring having side portions extending downward across the ends of the hinge pin to hold the pin in place.

2,590,527
SUCTION MASSAGE DEVICE
Fridolin Fluck, Lucerne, Switzerland, assignor of one-half to Joseph Niedermann, Lucerne, Switzerland
Application April 22, 1948, Serial No. 22,640
In Switzerland April 3, 1947
6 Claims. (Cl. 128—67)



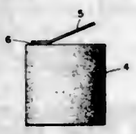
1. A suction massage device, comprising in combination a suction chamber; a flexible cover located over said suction chamber and being formed with a plurality of openings therein; and a plurality of elongated suction cups each being formed with a passage extending therethrough along the length thereof, each of said suction cups having one open end substantially larger than the other open end thereof, and each of said suction cups being respectively connected at its smaller end to one of said openings of said flexible cover.

2,590,528
PHASE ADVANCE CIRCUIT
Clarke M. Gilbert, Chappaqua, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application August 19, 1949, Serial No. 111,127
8 Claims. (Cl. 323—119)



1. A circuit for advancing the phase of a variable electrical signal comprising, means for inverting said signal, means for differentiating said inverted signal, a utilization circuit and means for alternately and successively impressing said electrical signal and at least a portion of said differentiated inverted signal on said utilization circuit whereby an alternating current signal is produced in said utilization circuit the alternate peak amplitudes of which are proportional to the instantaneous amplitudes of said electrical signal and said differentiated inverted signal.

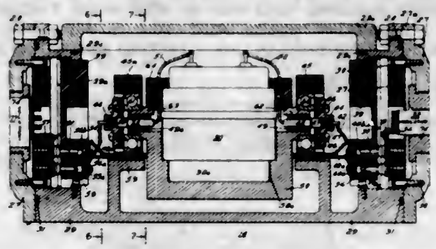
2,590,529
FUMIGATING COMPOSITIONS
John Gillies, Ardrossan, and John Rowe, Irvine, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application December 16, 1948, Serial No. 65,706
In Great Britain March 3, 1948
11 Claims. (Cl. 167—40)



1. A fumigating composition comprising an admixture of a thermally vaporisable pesticidal compound and ammonium nitrate-charcoal grains formed by milling charcoal and ammonium nitrate together in the presence of water and thereby at least partially absorbing the ammonium nitrate by the charcoal, the amount of ammonium nitrate being insufficient to bring about the oxidation of all of the charcoal to carbon monoxide and sufficient to undergo self-sustained thermal decomposition and thereby vaporize said pesticidal compound.

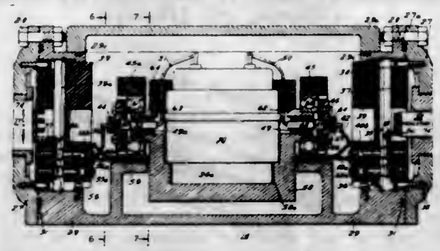
2,590,530
SEISMIC PROSPECTING SYSTEM
Goethe M. Groenendyke, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application March 10, 1948, Serial No. 14,027
6 Claims. (Cl. 177—352)

1. In a seismic surveying apparatus, the combination of a geophone housing, a first gimbal ring within and rotatably supported by said housing, a second gimbal ring supported by said first gimbal ring and having an axis of rotation perpendicular to and intersecting the axis of rotation of said first gimbal ring, a seismic detector supported in said second gimbal ring, said second gimbal ring being gravity biased to maintain said detector in a vertical position regardless of the position of said housing, a pair of contacts carried by said second gimbal ring co-axially of its axis of rotation and connected to said detector, insulated spring-biased contact plungers engaging said contacts, insulated contacts carried by



said first gimbal ring co-axially of its axis of rotation and connected to said plungers, and insulated spring-biased contact plungers engaging said second insulated contacts for transmission thereto of signals from said detector.

2,590,531
SELECTOR ARRANGEMENT FOR SEISMIC PROSPECTING SYSTEM
Kenneth W. McLoad, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application March 10, 1948, Serial No. 14,115
9 Claims. (Cl. 177—352)

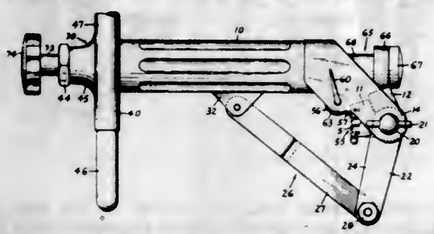


1. A seismic surveying apparatus in which a plurality of detectors are respectively separated and electrically interconnected by cable sections, each cable section having pairs of conductors corresponding in number with the number of said plurality of detectors, characterized by conducting members forming terminal assemblies between each cable section and a detector, said conducting members, one of each for each conductor, being circumferentially symmetrically disposed with respect to the axis of each cable section, means for interconnecting corresponding conducting members of adjacent terminal assemblies, and means for connecting each said detector to conductors leading to said assemblies whereby each said detector may be selectively connected to any pair of said conductors.

2,590,532
DEVICE FOR BENDING FRACTURE NAILS AND THE LIKE FOR IMPACTING FRACTURES AND EXTRACTING SUCH NAILS
Edward J. Haboush, Brooklyn, N. Y.
Application November 30, 1949, Serial No. 130,253
5 Claims. (Cl. 128—303)

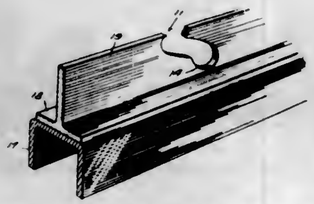
1. An instrument for bending bone nails and the like comprising a handle member, a pair of spaced apart arms extending obliquely from one end of said handle member, a fulcrum pin detachably mounted in and extending between said

arms, a pair of anvil members mounted between said arms for angular movement about the axis of said pin, said anvil members being spaced from said pin, pawl and ratchet elements on said handle member and one of said anvil members to releasably retain said one anvil member against movement in one direction and allow an-



gular adjustment of said one anvil member in either angular direction, a toggle mechanism connected to the other anvil member, and means carried by and rotatable relative to said handle member to collapse and straighten said toggle mechanism and move said other anvil member angularly around said fulcrum pin.

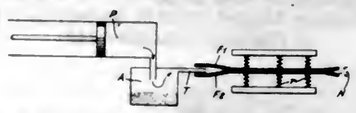
2,590,533
HANGER CONSTRUCTION FOR SUPPORTING MEAT HOOKS
Alfred A. Hamer, Alexandria, Va.
Application February 23, 1951, Serial No. 212,352
4 Claims. (Cl. 211—113)



1. An overhead meat hook supporting rail comprising a body portion having an upstanding longitudinal flange, and an inverted U-shaped base, said flange having spaced notches formed therein, each notch embodying spaced rearwardly disposed walls continuing in forwardly and downwardly inclined parallel walls terminating in a curved meat hook seat, one wall of the notch overlying the meat hook seat guarding against accidental displacement of a meat hook positioned within the seat.

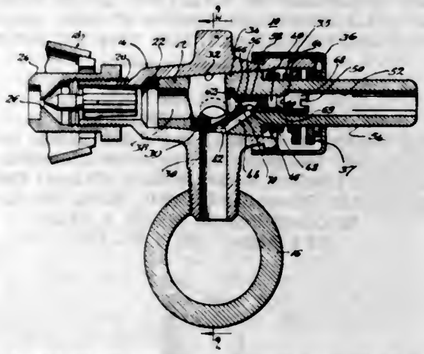
2,590,534
APPARATUS FOR PRODUCING ELECTRIFIED POWDERS BY FRICTION
Pierre Hampe, Versailles, France, assignor of one-half to Societe dite: Etablissements & Laboratoires Georges Truffaut, Versailles, France, a French company, and one-half to Georges Truffaut, Versailles, Seine-et-Oise, France
Original application July 23, 1947, Serial No. 763,132. Divided and this application July 22, 1949, Serial No. 106,176. In France October 21, 1946
12 Claims. (Cl. 175—265)

10. Apparatus for dusting plants and the like with electrically charged particles which comprises, in combination, means for supplying a stream of gas carrying particles to be charged, a passageway having closely spaced parallel walls, means for directing the stream of gas and particles between said walls, said walls being normally in engagement but being sufficiently yieldable to be separated by said stream of gas and particles to permit substantially laminar



flow of said gas through the passageway and provide repeated frictional engagement between said walls and particles to impart an electrostatic charge to said particles and means for conducting a charge away from said walls.

2,590,535
GAS VALVE
Philip S. Harper, Chicago, Ill., assignor to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois
Application February 7, 1945, Serial No. 576,673
8 Claims. (Cl. 277—41)

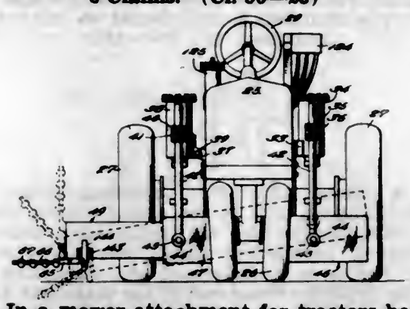


1. A gas valve including a rotatable valve plug having an axial outlet passageway, a hollow stem, a substantially uniform diameter passageway smaller than said outlet passageway and hollow portion of the stem interconnecting them, and a pasageway from the exterior of the plug to said interconnecting passageway, opposed sealing shoulders at the ends of said interconnecting passageway, and an auxiliary rotatable valve rotatably mounted in said interconnecting passageway, said valve having a portion of substantially uniform diameter in said first mentioned passageway, said portion having a passageway adapted to interconnect the passageway leading to the exterior of the plug valve and the outlet passageway, and sealing surfaces engaging each shoulder for rotatably securing said auxiliary valve within said plug valve.

2,590,536
GROUND PARTS OF RYANIA PLANT AS INSECTICIDES
Ralph E. Heal, Elizabeth, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application September 14, 1945, Serial No. 616,459
2 Claims. (Cl. 167—24)

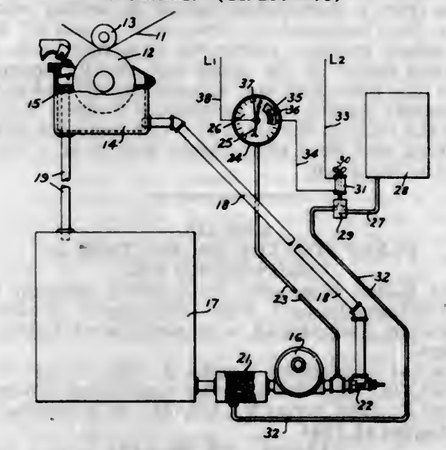
1. An insecticidal dust effective in the control of the European corn borer comprising 10% to 50% by weight of ground plant parts selected from the group consisting of leaves, stems, and roots of plants of the genus Ryania in an inert powdered solid carrier.

2,590,537
TRACTOR MOWING ATTACHMENT
Gray W. Holmes, Miller, Mo.
Application March 4, 1946, Serial No. 651,898
8 Claims. (Cl. 56—25)



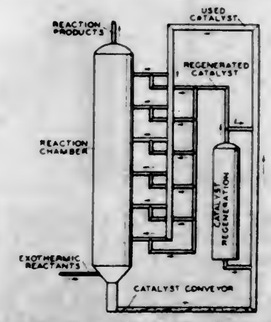
2. In a mower attachment for tractors having a power take-off, an elongated frame assembly, means to mount said frame assembly on and transversely of the tractor between the front and rear wheels thereof, a transverse horizontal shaft journaled in one end of said frame assembly, a yoke journaled on said shaft, a sickle bar fixed to said yoke, a sickle slidable on said sickle bar, means operatively connecting said shaft to said sickle to reciprocate the latter, driving mechanism for said shaft carried by said frame assembly and adapted to be operatively connected to said power take-off at the other end of said frame assembly, driving mechanism for said yoke carried by the frame assembly, a releasable and reversible driving connection between said first named driving mechanism and said second-named driving mechanism at said other end of the frame assembly, a double-acting reciprocating hydraulic motor carried by said frame assembly and selectively operable to release or reverse said driving connection, and means operable from the driver's seat of the tractor for controlling the operation of said motor.

2,590,538
INKING MECHANISM FOR PRINTING MACHINES
William F. Huck, Forest Hills, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application May 30, 1945, Serial No. 596,625
3 Claims. (Cl. 137—78)



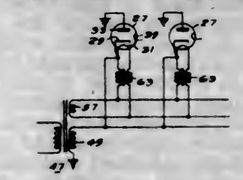
1. An ink circulating system for a printing machine including an ink fountain, an ink reservoir, a suitably driven pump having a first connection through which it receives ink from the reservoir and a second connection through which it discharges ink to the fountain, there being a third connection through which ink from the fountain is returned to the reservoir; the combination therewith of means for determining the consistency of the circulating ink, including a restriction in the said second connection to raise the fluid pressure at the discharge side of the pump, and means to indicate the fluid pressure between the outlet of the pump and the restriction.

2,590,539
METHOD OF CATALYST CONTROL IN ORGANIC REACTIONS
Thomas B. Hudson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 14, 1947, Serial No. 779,786
4 Claims. (Cl. 260—449.6)



1. The improved method of effecting catalyzed exothermic organic conversions which comprises passing a fluid reaction mixture to be converted through a reaction zone at conditions effective to obtain said conversion and so chosen that the temperature is caused to increase in the direction of flow of the reaction mixture due to the exothermic heat of reaction, introducing a solid mobile catalyst for the reaction into said reaction zone at a plurality of points spaced in the direction of flow, passing the thus-introduced catalyst through said reaction zone countercurrently to the reaction mixture, and separately controlling the quantity and activity of catalyst introduced at each said point to provide a decreasing amount of catalyst activity in the direction of flow of reactants as an inverse function of the temperature thus tending to equalize the extent of reaction throughout said reaction zone.

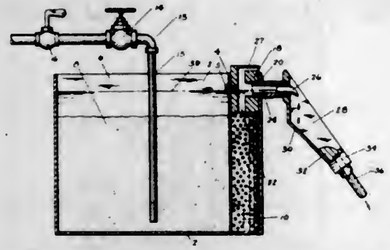
2,590,540
MAGNETRON BEACON
Hagan L. Jackson, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 28, 1946, Serial No. 679,957
3 Claims. (Cl. 332—5)



1. A beacon comprising a magnetron of the cavity type having a cavity anode and a cathode,

means for deriving from a commercial supply of alternating current potential pulsations having the frequency of said supply and having an amplitude sufficient, when said pulsations are impressed between said anode and said cathode, to cause said magnetron to oscillate at its natural frequency, means for impressing said pulsations between said anode and cathode and means for radiating energy derived from the oscillations of said magnetron.

2,590,541
DISSOLVING APPARATUS
Le Baron B. Johnson, New York, N. Y., and Eugene Geh, Tenafly, N. J., assignors to Oakite Products, Inc., New York, N. Y., a corporation
Application November 14, 1947, Serial No. 786,008
2 Claims. (Cl. 23—267)



1. A device for feeding a solution or suspension of a solid material in a liquid, comprising a tank, a substantially vertical wall dividing said tank into compartments, said wall extending from top to bottom of the tank and having small perforations along its whole height to permit communication between such compartments at all levels while preventing the passage of large particles of solid material from one compartment to the other, the first of said compartments being adapted to contain a solid material, and an overflow passage having a first substantially horizontal part through the wall of the tank adjacent the top thereof and having a second part extending downwardly into the second of said compartments and communicating therewith at a point in the upper half of the tank adjacent but somewhat below said first part, said passage including a third part communicating with said first part and with the outside at a point above said first part.

2,590,542
COMPOSITE SOLID CARBON DIOXIDE
Charles L. Jones, Chicago, Ill., assignor to International Carbonic Engineering Company, Wilmington, Del., a corporation of Delaware
No Drawing. Original application May 12, 1947, Serial No. 747,587. Divided and this application August 7, 1950, Serial No. 178,173
1 Claim. (Cl. 252—67)

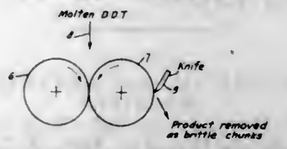
As an article of manufacture, a composite comprised of; a dense block or cake of solid carbon dioxide, and from approximately five to twenty percent (5% to 20%) of a frozen water solution of approximately five to ten percent (5% to 10%) of methanol, said frozen water solution being in the form of frozen particles substantially uniformly distributed throughout the block or cake of solid carbon dioxide whereby as the carbon dioxide sublimes there is formed and maintained a substantially coherent skeletally continuous blanket of frozen particles of water solution substantially enclosing the composite.

2,590,543
SPACED PLATE CIRCUIT INTERRUPTER
John A. Kalaway, Turtle Creek, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 5, 1947, Serial No. 759,270
2 Claims. (Cl. 200—144)



1. A circuit interrupter including means for establishing an arc, an arc extinguishing means for extinguishing the arc including a plurality of spaced conducting plates, each conducting plate having a single-ended slot extending inwardly from the front end of the plate and along the central axis thereof, an insulating enclosure substantially enclosing the rear ends of the plates, each plate having a pair of notches provided therein at the rear corners thereof, the several notches aligning and cooperating with the insulating enclosure to define two continuous venting passages at the rear corners of the plates to minimize back pressure of the formed arc gases and to prevent unbalanced gas pressure forces, and the portions of the insulating enclosure which bound on the two continuous passages being completely closed to confine the arc gases within said continuous venting passages.

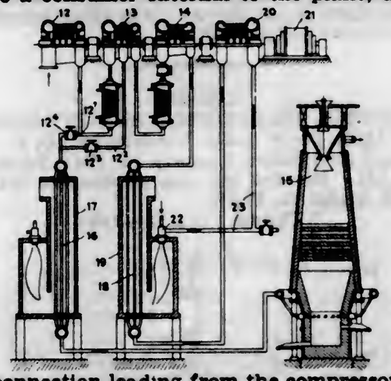
2,590,544
PROCESS FOR THE CRYSTALLIZATION OF DDT
John L. Kallok, Torrance, Calif., assignor to Montrose Chemical Corporation of California, Los Angeles, Calif., a corporation of Delaware
Application April 19, 1949, Serial No. 88,489
3 Claims. (Cl. 18—57)



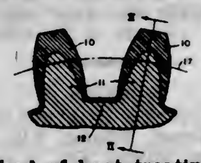
1. The process of solidifying DDT to a hard crystalline form which consists essentially in continuously cooling molten DDT in the form of a film from a temperature above its setting point to a final temperature between 5° C. and 30° C., to effect, initially, formation of a multitude of crystal nuclei in the liquid and, finally, formation of a firm solid and, simultaneously and continuously during such continuous cooling, working the DDT in the form of a film until the DDT attains said final temperature and is of a hard crystalline form.

2,590,545
PLANT FOR THE PRODUCTION OF COMPRESSED AIR
Curt Keller, Kusnacht, Switzerland, assignor to Aktiengesellschaft Fuer Technische Studien, Zurich, Switzerland, a corporation of Switzerland
Original application August 8, 1945, Serial No. 609,679. Divided and this application November 22, 1949, Serial No. 128,738. In Switzerland August 12, 1944
3 Claims. (Cl. 263—19)

1. In a plant for producing wind for metallurgical furnaces or similar consumers, the combination of a stage turbine having an inlet and exhaust; a multi-stage rotary compressor connected to be driven by said turbine and having an air intake and a discharge for compressed air; and air tap leading from said compressor at a point in advance of at least its last stage; a first connection for conducting air from said tap to a consumer external to the plant; a second connection leading from the compressor discharge to the turbine inlet; surface heat exchangers, one interposed in each of said first and second connections; combustion heating means arranged to deliver heat to said exchangers and discharger combustion products to atmosphere; and a third connection leading from the turbine exhaust and serving to supply combustion air to said heating means.

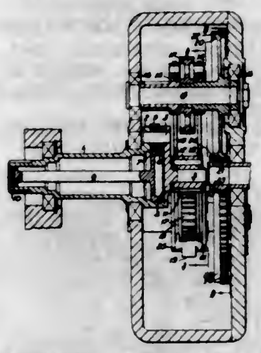


2,590,546
HEAT-TREATMENT OF IRREGULAR METALLIC OBJECTS
Homer F. Kincaid, Carbon Cliff, Ill., John D. Graham, Louisville, Ky., and John A. Redmond, Baltimore, Md., assignors to Westinghouse Electric Corporation, a corporation of Pennsylvania, and International Harvester Company, a corporation of New Jersey
Application July 25, 1949, Serial No. 106,594
12 Claims. (Cl. 148—10.5)



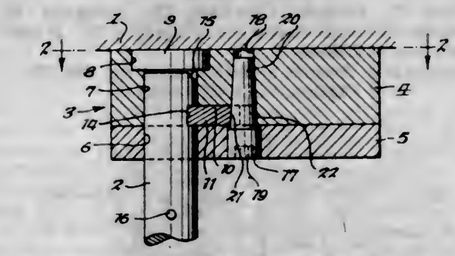
1. The method of heat treating an article of quench-hardenable metal in the operation of zone hardening which comprises heating the article with a relatively low frequency electrical induced current at a plurality of heating stations, the application of which consists of a plurality of evenly timed and spaced impulses, each of said impulses being applied at a different one of said stations, thereby heating said article to a temperature near the transformation point of its metal, stopping the application of heat to said article for a time period sufficient to allow the temperature of said article to fall to a temperature below the critical hardening temperature of the metal, immediately thereafter heating said article with an electrical induced current of substantially higher frequency through a time cycle of such duration whereby a temperature is reached such that a hardened surface zone of relatively shallow depth is obtained upon quenching said article by a coolant.

2,590,547
ADJUSTABLE CRANK FOR AUTOMATICALLY VARIABLE-SPEED TRANSMISSION GEARS
Aron Kolko, Seine, France
Application May 29, 1947, Serial No. 751,372
In France June 6, 1946
3 Claims. (Cl. 74—116)



1. An adjustable crank for use in a variable speed transmission gear, the improvement comprising a hollow driving shaft having a crank at the inner end thereof, a rotatable crank pin mounted in said crank, a pinion fixed to the crank pin, a second crank angularly adjustable with respect to the first named crank and having one end engaging the rotatable crank pin, a torsion bar mounted within and driven by the driving shaft, the torsion bar at its outer end having an adjustable spline connection with the driving shaft and at its inner end having a rack engageable with the crank pin pinion, and the torsion bar initially stressed to thereby tend to maintain the second named crank at its maximum eccentricity with respect to the driving shaft axis.

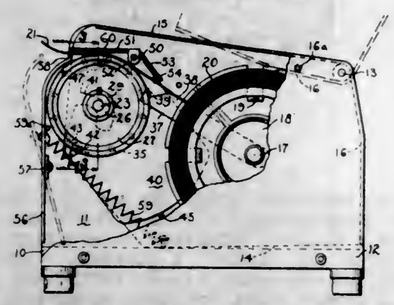
2,590,548
PUNCH RETAINER WITH LOCK
John F. Kopczynski, Buffalo, N. Y.
Application November 3, 1948, Serial No. 58,051
12 Claims. (Cl. 279—79)



3. A punch retainer construction for perforating dies and the like which comprises a punch holder, a punch retainer secured to a face of said holder and having a pair of superposed plates with alined openings forming a common passage therethrough to said holder for detachably receiving the shank of a punch to be held, one of said plates having in its face abutting the other plate, a recess intersecting said passage, a plate-like key sliding freely in said recess into and out of said passage and having a straight edge which enters said passage, spring means within said recess and urging said key across said recess into said passage, where it may engage in a groove in the shank of said punch, a screw threaded to one of said plates and having

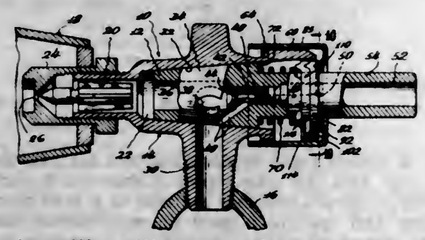
a longitudinally tapered part extending crosswise of said recess and engaging with said key to force it towards said recess when the screw is threaded in one direction, and to fully release the key when removed from both of said plates.

2,590,549
TAPE-SERVING MECHANISM
Alfred P. Krueger, Stratford, and Oscar P. Erhardt, Derby, Conn., assignors to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application August 5, 1948, Serial No. 42,594
4 Claims. (Cl. 164—84.5)



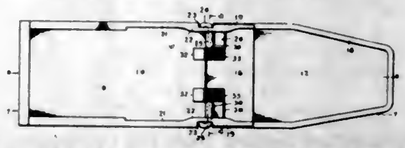
1. Mechanism for dispensing pressure-sensitive tape comprising a frame, a drum rotatably mounted on the frame to which the tape adheres, a carrier member adjacent the drum, means for mounting said member on the frame for movement relatively to the axis of said drum, means actuated by the rotation of the drum in a forward direction to move said carrier member in the general direction in which the tape is drawn, a severing member swingably mounted on the carrier, and means on said severing member to restrain said carrier member against reverse movement during the severing operation.

2,590,550
GAS VALVE
Charles C. Lamar, Chicago, Ill., assignor to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois
Application August 9, 1945, Serial No. 609,789
9 Claims. (Cl. 251—163)



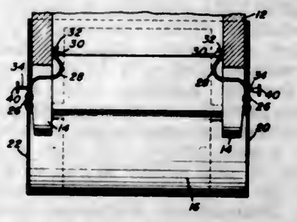
1. A multi-position gas valve of the type including spaced apart stationary stop defining shoulders and a member movable angularly to different positions indicative of the position of the valve, including in combination, a first detent plate mounted on said member and constrained for angular movement therewith, a second detent plate movably mounted in contact with the first plate and movable angularly relative to and with said first plate and member, said second plate having a radial extension having an angular extent less than the distance between said shoulders and movable between and engageable with the shoulders, and means including complementary angularly spaced apart axially extending frictional driving portions on said plates and axially acting spring means for resiliently urging the two plates into frictional contact with each other so that said second plate is movable with said first plate when said radial extension is disengaged from said shoulders and is movable relative to said first mentioned plate when said extension engages the shoulder.

2,590,551
PORTABLE COLLAPSIBLE IRONING BOARD
Alpha Perry Lantz, Washington, D. C.
Original application January 15, 1947, Serial No. 722,262. Divided and this application May 19, 1948, Serial No. 27,875
3 Claims. (Cl. 38—139)



1. A foldable ironing board comprising inner and outer sections and means for pivotally connecting the sections together, said inner section having a depressed portion forming a seat for the inner end of the outer section and side flanges having apertures therein spaced from the outer ends of said flanges, the depressed portion being provided with transversely arranged openings, the outer section including spaced lugs extending from its inner end and pivot receiving bearings, said lugs being adapted to pass through the openings of the depressed portion and engage the bottom surface of the inner section, the pivot receiving bearings being carried by the inner end of the outer section and positioned adjacent to its side edges, and the means for pivotally connecting the sections together comprising L-shaped pivot pins each having a short leg and a long leg arranged parallel to one another, the short legs of the pivot pins being pivotally secured in the apertures of the flanges while the longer legs are pivotally received in the bearings of the outer section.

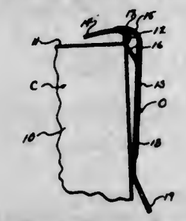
2,590,552
TOILET TISSUE HOLDER COVER
William M. Lauton, Miami, Fla., assignor to Koverroll, Inc., Miami, Fla., a corporation of Florida
Application December 22, 1950, Serial No. 202,237
3 Claims. (Cl. 242—55.2)



1. In a wall fixture having spaced laterally extending brackets and a toilet tissue roll rotatably suspended on said brackets; a cover for the roll comprising a hood including side walls, resilient means carried by said side walls interiorly of the hood for frictionally engaging the brackets to hold the cover thereon, and manually operable

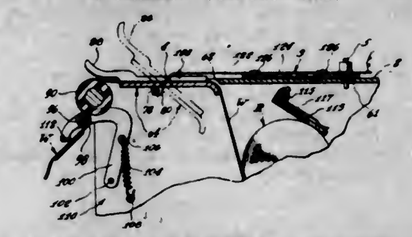
means for urging said resilient means inwardly of and away from the side walls of the hood to clear the brackets.

2,590,553
CAN OPENER SUSPENDED FROM A CAN
Julius Lesser and Samuel H. Lenhoff, Chicago, Ill.
Application February 13, 1950, Serial No. 143,962
3 Claims. (Cl. 30—16)



1. A can opener of the type comprising an elongated handle, a V-shaped can puncturing nose on the outer end of the handle and a fulcrum hook struck out from the handle for engaging a can bead, and means on said opener cooperating with said hook to clamp said opener to a can bead when the opener is not in use with the handle lying along side of the can body.

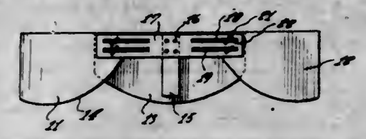
2,590,554
ELECTRICAL RECORDING INSTRUMENT FOR ELECTROCARDIOGRAPHS
Joseph Lukacs, Asteria, N. Y., assignor, by mesne assignments, to Technicon Cardiograph Corporation, New York, N. Y.
Application December 4, 1946, Serial No. 714,884
6 Claims. (Cl. 346—145)



1. In an electrical recording instrument of the designated character provided with a platen for a web on which the record is made during the travel of the web over the platen, and means for mounting a recording scriber for oscillatory movement over said web in a path transversely of said direction of web movement; means mounting said platen in position for operation of the scriber thereon, said mounting means comprising a frame and a bracket carrying said platen and mounted for rectilinear movement on said frame in a direction normal to said platen, and movable means connected to said bracket for moving the latter rectilinearly for adjusting the position of said platen in relation to the scriber.

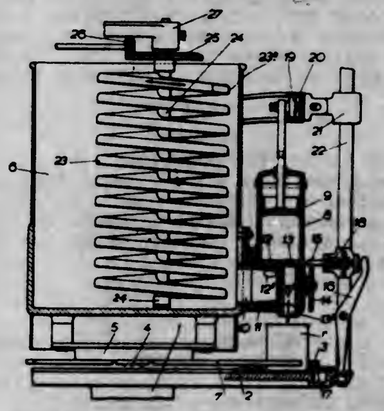
2,590,555
CORNICE CONSTRUCTION
Dario S. Malchiodi, New York, N. Y.
Application May 28, 1949, Serial No. 96,097
2 Claims. (Cl. 160—39)

2. A cornice construction comprising a center structure, a slotted elongated piece secured longitudinally of and to the center structure, said slotted, elongated piece having parallel slots, wing cornice members extending between the slotted elongated piece and the center structure



to be guided and retained by the same, fastening means extending through the wing members and the slots of the slotted elongated piece.

2,590,556
MEASURING AND BOX FILLING MACHINE
Henri Marchadour, Quimper, France
Application June 2, 1947, Serial No. 751,817
In France March 26, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 26, 1963
7 Claims. (Cl. 226—19)

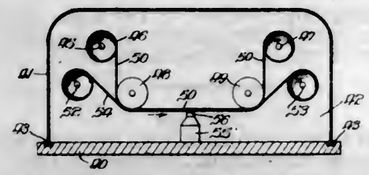


1. A measuring and container-filling machine for a mixture of solid and liquid products such as preserves of fruit in a syrup, comprising a rotary reservoir formed with lateral outlet openings in the lower part of the peripheral wall thereof, distributing means connected to each of said lateral outlet opening and operable at each revolution of said reservoir for withdrawing a quantity of the contents of said reservoir through one of said lateral openings and expelling said quantity through a discharge opening into a container to be filled, a vertical conveyor screw mounted in said reservoir, in spaced relation to the peripheral wall thereof, extending from above the level of the mixture in said reservoir down to the level of said lateral outlet openings, and means for rotating said conveyor screw in a direction opposite to the direction of rotation of said reservoir, so as to cause a circulation of the solid products floating on the surface of the contents of said reservoir toward the lower part of said reservoir.

2,590,557
METALLIZING PROCESS AND APPARATUS
Charles A. Meisheimer, Oak Park, Ill., assignor to John E. Fast & Co., Chicago, Ill., a corporation of Illinois
Application November 15, 1949, Serial No. 127,396
4 Claims. (Cl. 117—48)

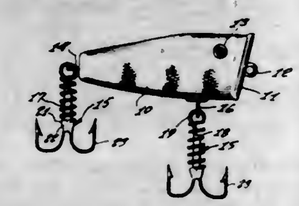
1. The herein-described process which comprises continuously advancing a strip of dielectric material lengthwise past a source of metallic vapor in such physical disposition with re-

spect to said source that an exposed portion of the strip facing said source is metallized, maintaining a masking tape in masking contact relation with said exposed portion of the dielectric strip with an edge of the masking tape at a longitudinal margin of the exposed portion of the dielectric strip throughout the entire length of said exposed portion during the metallizing



thereof, and continuously advancing the masking tape lengthwise relatively to said source in a direction parallel to the length of the strip while maintaining contact therewith and at a speed rate many times different from that of the strip and thereby producing a concurrent and continuous shearing of the deposited metal at a uniform speed sharply along the edge line defined by the tape when in masking relation to the strip.

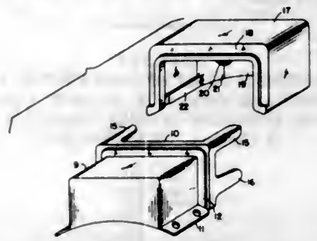
2,590,558
FISHING LURE
Lloyd J. Mickelson, St. Clair Shores, Mich., assignor to Carl Miller, New York, N. Y.
Application July 3, 1950, Serial No. 171,805
2 Claims. (Cl. 43—44.83)



1. A fish hook construction comprising an upwardly extending shank terminating at the upper end in a suspension hook adapted to be connected to a lure body, a base portion of greater cross section than that of said shank fixed upon the lower end of the latter, a plurality of hook prongs fixed to the lower portion of the base and individually directed outward therefrom, and a compression spring surrounding said shank and fixed at the lower end thereof to said base and at the upper end normally bearing resiliently against the end of said suspension hook to prevent accidental displacement of said hook from said lure body.

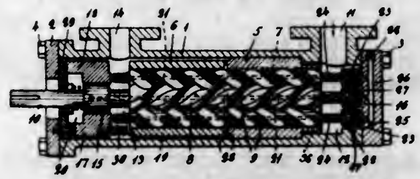
2,590,559
COVER MEANS FOR TERMINALS OF DYNAMOELECTRIC MACHINES
Lawrence E. Miller, Lima, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 12, 1950, Serial No. 179,075
2 Claims. (Cl. 171—252)

1. In a dynamo-electric machine having a frame structure and terminals mounted externally on the frame structure, a support member mounted on the frame structure adjacent the terminals, said support member having fingers extending axially past the terminals, and a flexible, insulating cover member enclosing the terminals, the cover member having longitudinal recesses in its inner surface for receiving said



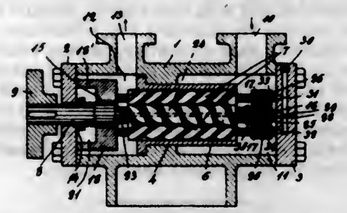
fingers for removably supporting the cover member in place.

2,590,560
SCREW PUMP
Carl Oscar Torsten Montelius, Stockholm, Sweden
Application September 25, 1948, Serial No. 51,135
In Sweden May 10, 1948
5 Claims. (Cl. 103—128)



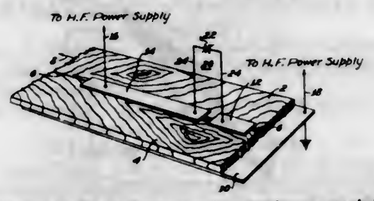
1. A rotary pump having a housing with an inlet and an outlet, a plurality of intermeshing, parallel, rotary screws, and a sleeve with intersecting, parallel bores, closely fitting the outside perimeters of said screws, the sleeve being divided perpendicularly to the axes of the bores into parts freely movable in relation to each other, one of the parts of the sleeve being fixed in the housing, and the other part being exposed at its outer end to said outlet and in clearance relationship to the housing for freedom to properly align itself with the first mentioned part when it is urged towards the first mentioned part by the working pressure of the pump.

2,590,561
SCREW PUMP
Carl Oscar Josef Montelius, Stockholm, Sweden
Application September 25, 1948, Serial No. 51,136
In Sweden December 10, 1947
2 Claims. (Cl. 103—128)
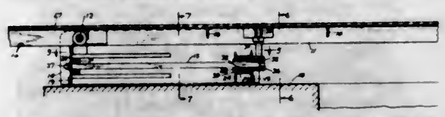


1. A rotary pump comprising a housing having an inlet and an outlet and providing a plurality of intersecting parallel bores, a central power screw and a plurality of idler screws intermeshing with said power screw, said screws being rotatable in said bores, said central power screw being free to move in directions transverse to its axis within limits defined solely by its bore, a balancing piston on said power screw at the outlet end thereof, a sleeve member surrounding and supported by said piston and free to move axially of the piston under action of the working pressure of the pump fluid against a stop surface of the housing and free to move across said surface as determined by said piston.

2,590,562
MEANS FOR PROGRESSIVE DIELECTRIC HEATING
Russell A. Nielsen, South Pasadena, Calif., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 11, 1947, Serial No. 760,475
10 Claims. (Cl. 219—47)



1. Dielectric heating equipment comprising a plurality of pairs of spaced heating-electrodes between each of which a high-frequency electric field can be established, each pair comprising an insulated heating-electrode, said plurality of pairs of heating-eletcrodes being so arranged that a dielectric material to be heat-treated can pass successively therebetween, connection means for connecting a source of high-frequency power having a first voltage between a first pair of said plurality of pairs of spaced heating-electrodes, and circuit means, comprising a voltage controlling connection, for deriving a second voltage from said first pair of heating-electrodes and applying said second voltage to a second pair of said plurality of pairs of spaced heating-electrodes.

2,590,563
DIVING BOARD
William J. Nightingale, Valparaiso, Ind.
Application September 29, 1949, Serial No. 118,606
4 Claims. (Cl. 272—66)



1. In an apparatus of the class described, a supporting structure, a diving board hinged adjacent its rear end to said structure, a member on said supporting structure and having an angular aperture, an angular torsion member freely extending through said aperture, a crank arm upon said torsion member, a crank arm engaging actuator on said diving board for operating said crank arm in one direction, and means for relatively adjusting said members for varying the effective length of said torsion member.

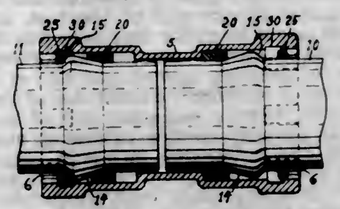
2,590,564
SCREW HOLDING SCREW DRIVER
Harold E. Noffsinger, Salt Lake City, Utah
Application July 17, 1948, Serial No. 39,252
4 Claims. (Cl. 145—52)

1. A screw holding screw driver comprising: a shank terminating at its lower extremity in a screw engaging bit, and at its upper extremity in a handle; a tubular barrel surrounding said shank; a slotted screw holding seat on the lower extremity of said barrel; a spring seat adjacent the bottom of said barrel; a collar on said shank within said barrel; a spring compressed between said collar and said spring seat so as to urge said screw holding seat away from said bit; a lever pivoted to said collar for swinging move-



ment longitudinally of the shank and the barrel, a link pivoted to said lever and extending longitudinally of the barrel, and a member carried by said barrel and slidably connected with the link, said link being adapted for abutting engagement with the said member at points spaced from each other longitudinally of the link for shifting the barrel longitudinally along the shank predetermined distances when the lever is tilted.

2,590,565
PIPE JOINT
Alden E. Osborn, Mount Vernon, N. Y.
Application June 2, 1950, Serial No. 165,781
10 Claims. (Cl. 285—196)

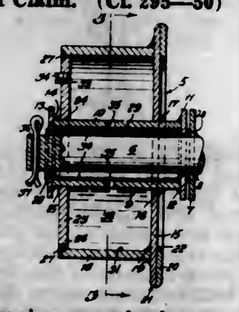


1. A joint for connecting a collared pipe, comprising a socket member into which an end of said pipe is inserted with the collar of said pipe within said socket, a circumferentially arranged shoulder in the interior of said socket surrounding said pipe on the opposite side of said collar from the end of said pipe, a separable expandable lock ring inserted into said socket after said collared pipe has been entered therein and, when expanded, positioned between the side of said pipe collar and said interior shoulder of said socket to retain said pipe in said socket, with said ring being contractable and removable from said socket while said pipe is still inserted therein, to release said pipe from said socket, and packing means, within said socket and between a wall of said socket and an exterior surface on said pipe, to prevent leakage thru said joint.

2,590,566
HYDROTHERMAL SYNTHESIS OF FORSTERITE
Elburt F. Osborn, State College, Pa., assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 22, 1949, Serial No. 100,698
9 Claims. (Cl. 23—110)

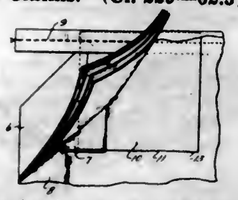
1. That method of synthesizing forsterite hydrothermally that comprises heating a mixture of a finely divided material containing a compound chosen from the group consisting of magnesia and magnesium carbonate and finely divided material containing a compound chosen from the group consisting of silica and silicates to at least about 500° C. in a closed system in the presence of water vapor under a pressure of at least about 350 pounds per square inch.

2,590,567
CAR WHEEL
Charles V. Osborne, Wise, Va.
Application April 21, 1950, Serial No. 157,300
1 Claim. (Cl. 295—50)



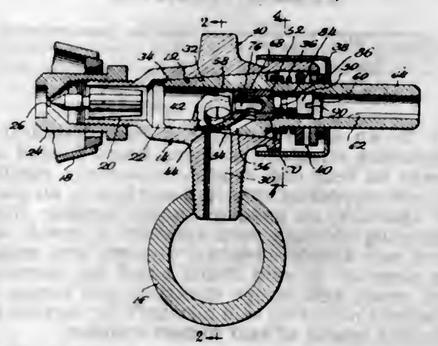
A track engaging car wheel comprising a hub composed of a length of pipe and an annular member fixed to each end of the pipe, each of said annular members providing an inwardly extending annular flange, said inwardly extending annular flanges defining aligned openings adapted to be loosely disposed around a wheel axle; an annular disk having a bore fitting snugly around the pipe of the hub and secured thereto adjacent one end of the hub, a length of pipe of larger diameter than said hub disposed concentrically around the hub and having one end thereof abutting against one side of the annular member forming the inner side of the wheel and secured thereto, said inner side of the wheel having an annular portion extending outwardly from the last mentioned pipe and forming an annular wheel flange, said last mentioned pipe forming the wheel rim or felly, an annular member forming the outer side of the wheel having a central opening snugly fitting around the pipe of the hub and secured thereto adjacent its opposite end, said outer wheel side having an external diameter corresponding to the internal diameter of the wheel rim and fitting snugly therein adjacent the opposite end of the wheel rim and secured thereto, and a plurality of needle bearings disposed between the pipe of the hub and the wheel axle and between the inwardly extending flanges of the end portions of the hub and providing an anti-friction support for said wheel relatively to the axle, said hub pipe, wheel rim and the inner and outer sides of the wheel combining to form an annular lubricating chamber, one of said side walls having a threaded filling opening for supplying a lubricant to said chamber, a threaded plug for closing and sealing said filling opening, and said hub pipe having at least one radial opening communicating with its bore and with said lubricating chamber for supplying a lubricant from the chamber to the needle bearings, and annular oil seals of channel-shaped cross section engaging between the inwardly extending annular flanges of the hub ends and the axle and sealing the ends of the hub space occupied by the needle bearings.

2,590,568
SLEEVE FOR BAG VALVES
Harry Peters and Clyde D. Pierson, Middletown, Ohio, assignors to The Raymond Bag Company, Middletown, Ohio, a corporation of Ohio
Application May 27, 1949, Serial No. 95,738
2 Claims. (Cl. 229—62.5)



1. In a bag having a part folded inwardly to form a valve, a sleeve for said valve comprising a section of sleeve forming material folded upon itself and supported in said valve with the fold line thereof adjacent to and substantially parallel with the fold line of said valve, and with the major portion thereof extending inwardly beyond said valve, said sleeve having a slit adjacent to and extending lengthwise of said fold line from the inner end of said valve to a point adjacent to and narrowly spaced from the inner end of said sleeve to provide a weak connection between the inner edge portions of said sleeve which is easily broken to release said end portions of said sleeve for relative movement.

2,590,569
GAS VALVE
Vincent C. Peterson, Chicago, Ill., assignor to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois
Application June 21, 1945, Serial No. 600,795
12 Claims. (Cl. 277—41)



3. In a stem adjustment gas valve, the combination including, a rotatable valve plug having an axial passageway therethrough and a transverse passageway leading from said axial passageway to the exterior of the plug, a tubular member mounted within said axial passageway and including a first portion fixedly securing the member in said axial passageway in gas tight manner and a second portion comprising a tubular

thin walled extension from said first portion, said first portion having a transverse passageway intermediate its end and communicating with said transverse passageway in the plug, and a valve member rotatably mounted in said tubular member for access through said axial passageway and including structure cooperating with said transverse passageway in said tubular member for adjusting the gas flow through the latter upon rotation of the valve member, and means including an annular external groove in said valve member and a portion of the thin wall of said extension depressed into said groove for preventing leakage of gas between said tubular and valve members.

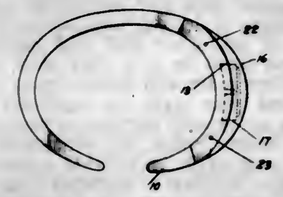
2,590,570
PREPARATION OF STABILIZED TALL OIL NITRILES
Stearns T. Putnam, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 7, 1950, Serial No. 148,259
7 Claims. (Cl. 260—97.5)

1. A stabilized tall oil nitrile of the group consisting of dehydrogenated tall oil nitrile and hydrogenated tall oil nitrile, substantially free of emulsion polymerization inhibitors and abietonitrile.

2,590,571
PREPARATION OF STABILIZED TALL OIL AMINES
Stearns T. Putnam, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 7, 1950, Serial No. 148,260
8 Claims. (Cl. 260—97.5)

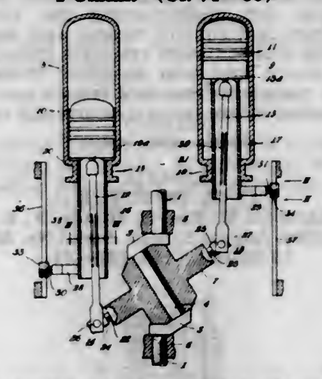
1. An amine of a stabilized tall oil, suitable for use in cationic emulsification of peroxide-catalyzed emulsion polymerization systems, of the group consisting of hydrogenated tall oil amine and dehydrogenated tall oil amine, said amines being substantially free of emulsion polymerization inhibitors and abietylamine.

2,590,572
BRACELET MOUNTING FOR WATCHES
Luther L. Rasmussen, Edinburg, Ind.
Application March 11, 1946, Serial No. 653,585
1 Claim. (Cl. 224—4)



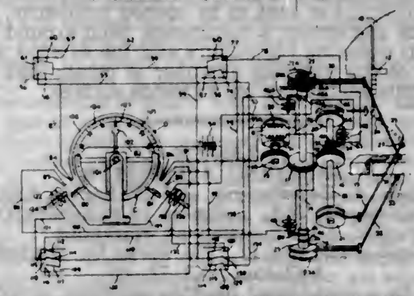
A bracelet mounting for a watch comprising the combination of a wrist-engaging body portion having a recess therein of size and shape to receive the lower portion of a watch and a notch in said body portion, a transparent cover member having a recess therein adapted to mate with said first mentioned recess to receive the upper portion of a watch and a notch in said upper portion adapted to mate with a notch in said lower portion to form a stem receiving recess, said cover member having a pair of flanges shaped to fit the contour of the wrist, said flanges adapted to be received in recesses in said body portion and pin members for securing said flange members to said body portion when said covering member is in covering position whereby a watch is carried between said members and the face of said watch is visible through said transparent cover member.

2,590,573
PISTON APPARATUS COMPRISING A BELL CRANK CAM DRIVE
Herre Rinia, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 26, 1946, Serial No. 718,578
In the Netherlands February 25, 1946
1 Claim. (Cl. 74—60)



Piston apparatus comprising a bell crank cam drive, a cylinder, a piston mounted therein, a hollow piston rod attached to said piston and mounted for reciprocable movement in bushing means in said cylinder wall, a connecting rod within said hollow piston rod and connected at one end to said piston by resilient means and at the other end to said bell crank cam drive by gimbal ring means, said connecting rod having less torsional resistance for part of the length thereof than for the remaining part, a straight guide mounted outside said cylinder, and means attached to said piston rod and engaging said straight guide at all times whereby rotational movement of said piston in said cylinder is prevented.

2,590,574
STEERING MEANS FOR VEHICLES
Marion B. Robinson, Great Neck, N. Y.
Application October 5, 1944, Serial No. 557,289
3 Claims. (Cl. 244—14)



1. In a means for controlling movement of a body from an initial position by radiation transmitted to said body from a remote source, directing means, means controlling movement of the

body vertically and horizontally, means for operating the said control means, time mechanism for connecting the control means to the directing means and movable from an inoperative position for initially directing the body from said initial position to a second position, said time mechanism returnable to inoperative position upon said body being directed to said second position, gyroscopic means for connecting said operating means to said directing means for maintaining said body on a predetermined course, said gyroscopic means being ineffective to operate said control means upon connecting said control means by the time mechanism to the directing means, said gyroscopic means effective to operate said control means upon said time mechanism returning to inoperative position, means for receiving radiation from said remote source, means, normally inoperative, for disconnecting the gyroscopic means from said control means, and means for connecting said radiation receiving means to said control means and said directing means upon receiving radiation from said remote source, said disconnecting means being concurrently operated.

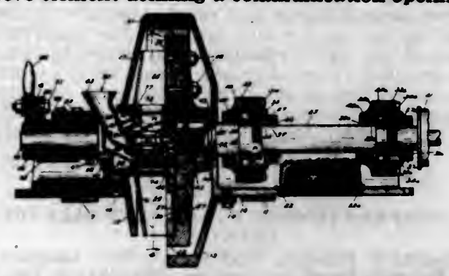
2,590,575
FUEL INJECTOR
Gardiner M. Rogers, Ithaca, N. Y.
Application August 2, 1945, Serial No. 608,588
13 Claims. (Cl. 103—41)



1. In a fuel injector for an internal-combustion engine, an injector pump comprising a pumping chamber, apparatus for determining the operating pressure of the pump comprising a vent in the pumping chamber and a closure therefore, a spring holding the closure in closed condition and permitting the vent to be opened resiliently, the spring comprising a continuous band around the pump engaging the closure and the exterior surface of the pumping chamber at points that are opposite each other on its inside surface.

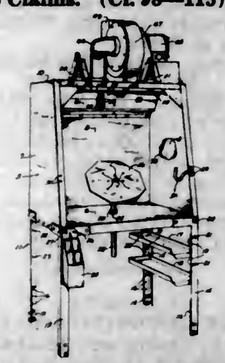
2,590,576
ABRADING APPARATUS
William A. Rosenberger and Walter L. Keefer, Hagerstown, Md., assignors to Pangborn Corporation, a corporation of Maryland
Application May 17, 1934, Serial No. 726,188
8 Claims. (Cl. 51—9)

1. In a centrifugal blasting machine, a rotatably supported member having a plurality of outwardly extending abrasive impelling blades projecting therefrom, the inner ends of said blades terminating short of the axis of rotation of said member and defining an abrasive supplying space, a cylindrical sleeve element non-rotatably held within said space and having an inwardly extending flange adjacent the rotatably supported member defining an abrasive impelling chamber, and a passageway in the cylindrical wall of the sleeve element defining a communication opening



of limited peripheral extent to discharge abrasive from the chamber into the blades over a limited range to effect directional control of the abrasive by the revolving blades, and a plurality of rotatable abrasive impelling vanes on said member and disposed within said sleeve, said vanes extending outwardly beyond the inner periphery of said flange.

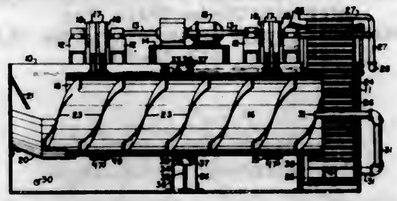
2,590,577
WELDING CABINET
Richard Ruemelin, Milwaukee, Wis.
Application May 20, 1949, Serial No. 94,269
5 Claims. (Cl. 98—115)



1. A welding cabinet comprising an enclosure in which work is adapted to be positioned having a top wall, rear wall, and having an open front; a baffle having a length substantially equal to the width of said rear wall and having a rear edge portion fixed to said rear wall, said baffle extending forwardly and upwardly to form with said top and rear walls an auxiliary chamber and having a forward portion connected to said top wall, there being an elongated opening formed in said baffle to provide communication between said auxiliary chamber and the remainder of the enclosure; said enclosure having an exhaust vent communicating with the auxiliary chamber; and an exhaust blower having an inlet communicating with said vent.

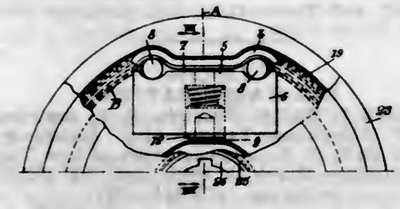
2,590,578
SUGAR DIFFUSING APPARATUS
Joseph P. Ruth, Denver, Colo.
Application March 4, 1950, Serial No. 147,676
11 Claims. (Cl. 127—7)

1. A diffusing apparatus, comprising a tank, means for simultaneously agitating and translating material with leaching effect within a liquid body confined by said tank, means including a partition transversely dividing the liquid body exteriorly of said first means for circulating the liquid body to cause generation therein of a flow current through said first means opposed to translatory travel of material therethrough,



means for continuously feeding material to the initial end of its translatory path through the liquid body, means for continuously removing material from the liquid body at the terminal end of its translatory path, and means for selectively withdrawing liquid from the body adjacent the infeed of material thereto.

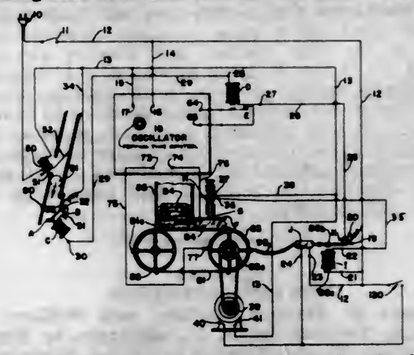
2,590,579
TORSIONAL VIBRATION DAMPER
Gilles François Sarazin, Paris, France
Application June 20, 1949, Serial No. 100,284
In France September 17, 1948
20 Claims. (Cl. 74—574)



1. A torsional vibration damper for use on a rotating shaft which comprises, in combination, at least one vibrating block secured to said shaft, at least one pendular mass, rolling contact means interposed between said block and said mass, a fluidtight closed envelope containing said block, said mass and said rolling means, said envelope being rigid with said shaft, and an amount of lubricant in said envelope sufficient at least partly to bathe said rolling contact means without substantially bathing said mass when said envelope is rotating.

2,590,580
HIGH-FREQUENCY CORN POPPING APPARATUS
Edward L. Schiavone, Silver Spring, Md., assignor of one-half to Ben J. Chromy, Washington, D. C.
Application July 26, 1946, Serial No. 686,488
12 Claims. (Cl. 219—47)

5. In apparatus of the class described the combination of a high frequency current generator for generating a high frequency field, a conveyor for positioning popcorn to be popped in said high frequency field, a motor for driving said conveyor, control means for controlling the energization of said high frequency current generator for processing said popcorn until said popcorn has been popped, and switch means automatically actuated by the expansion of said popped corn for connecting said motor to a source of current supply



whereby said popped corn is moved out of said high frequency field.

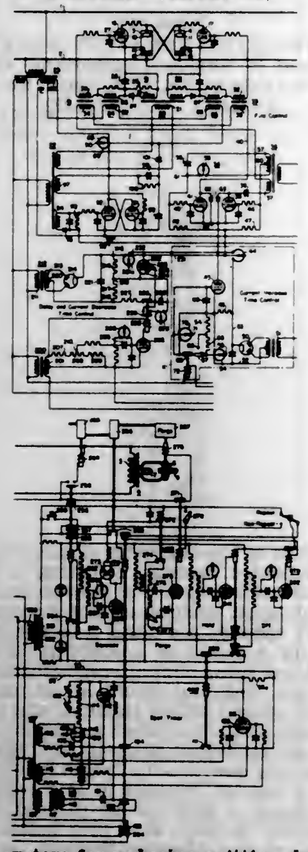
2,590,581
DEVICE FOR AERATING WATER
Dwight W. Shirley, Cumberland, Wis.
Application February 6, 1950, Serial No. 142,582
2 Claims. (Cl. 261—93)



1. A device of the character described comprising an elongated housing including a first hollow element providing a first inlet passageway for a gas at an upper portion of said housing, a second hollow element providing a second inlet passageway for a liquid at a lower portion of the housing, there being circumferentially spaced outlets for said gas and liquid at an upper portion of said second hollow element, and an inverted cup shape element between and connecting said first and second hollow elements, a hollow projection extending downwardly from said first hollow element in spaced relation to said inverted cup shape element, a shaft to be rotated extending longitudinally through said first hollow element in spaced relation thereto, through said hollow projection and into an upper portion of said second hollow element, there being an inlet for flow of air from said first inlet passageway by way of an exterior portion of said hollow projection to said inverted cup shape element and second hollow element and the hollow projection being otherwise closed to the inverted cup shape element and the second hollow element, an actuator in said second hollow element in proximate relation to a lower portion of said hollow projection at the elevation of and in adjacent relation to said gas and liquid circumferentially spaced out-

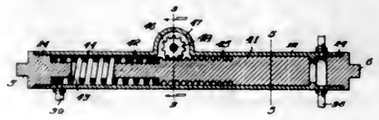
lets constituted as a disc member including radially extending blades for drawing gas through said first inlet passageway and said hollow projection over and around an upper, external surface of the disc member and forcing gas and liquid out of said housing by way of said circumferentially spaced outlets, a stationary ported partition in said second hollow element in spaced relation to said actuator, a closure member for a lower portion of the second hollow element including inlet ports at the side of said ported partition opposite the actuator, and means for rotating said actuator.

2,590,582
WELDING CONTROL
Clarence B. Stadum, Buffalo, and William E. Large, Tonawanda, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 21, 1949, Serial No. 100,511
15 Claims. (Cl. 219—4)



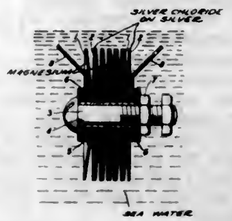
1. In a system for reducing spitting during spot welding of oxide coated metal, wherein said spot welding requires predetermined welding current and predetermined forge pressure to effect welding, the combination comprising, means for passing an initial pre-heating current less than said predetermined welding current through said metal, means for applying greater than said predetermined forge pressure to said metal during flow of said pre-heating current, and means for increasing said pre-heating current to said predetermined welding current and for reducing said greater than said predetermined forge pressure to said predetermined forge pressure during a spot weld period following said flow of said pre-heating current.

2,590,583
PISTON TYPE DIFFERENTIAL PRESSURE GAUGE FOR RATE OF FLOW INDICATORS
McKinley Taylor, Iraan, Tex.
Application January 25, 1949, Serial No. 72,611
1 Claim. (Cl. 73—419)



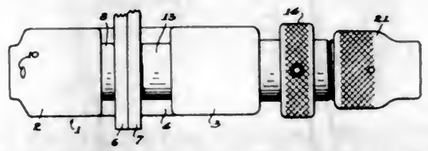
An indicating device comprising a cylinder, the opposite ends of said cylinder being threaded interiorly, a plug arranged in threaded engagement with each end of said cylinder, a nose projecting inwardly from one of said plugs, a plunger slidably arranged in said cylinder and having one end of reduced diameter for engagement with said nose, a coil spring circumposed on the reduced end of said plunger and on said nose, a plurality of gear teeth arranged on said plunger, a housing arranged intermediate the ends of said cylinder and projecting therefrom, and a gear rotatably positioned in said housing and meshing with said gear teeth for operating an indicator, said cylinder being provided with means at either end, on opposite sides of the plunger, for transmitting fluid pressure thereto.

2,590,584
SEA-WATER BATTERY
Raymond L. Taylor, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 29, 1945, Serial No. 585,419
9 Claims. (Cl. 136—103)



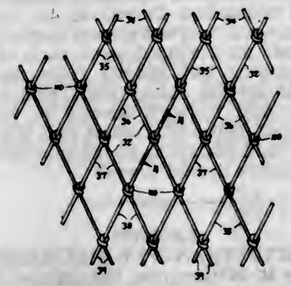
6. In a structure adapted to function as an electric battery when immersed in an electrolyte a metal disc forming an electrode of one cell and a second disc of an electrochemically dissimilar metal forming the opposite electrode of a second cell said discs being mounted by means of central holes upon a rod and being disposed adjacent to one another and in mechanical and electrical contact, at least one of said discs possessing a dished shape such that said mechanical contact is confined to substantially a line along the periphery of said dished disc and an area surrounding the central hole of said disc substantially less than the total area of said disc, substantial pressure being exerted by said periphery against the other disc so as substantially to exclude the electrolyte from between said discs during the life of the battery.

2,590,585
EXPLOSIVELY ACTUATED BONDING TOOL
Robert Temple, Swissvale, Pa., assignor to Temple Velocity Equipment, Inc., Wilmington, Del., a corporation of Delaware
Substituted for application Serial No. 745,087, April 30, 1947. This application February 1, 1951, Serial No. 208,959
7 Claims. (Cl. 1—47)



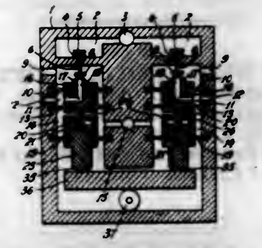
1. A tool comprising a frame having substantially parallel arms spaced apart to form a slot between them adapted to receive a plurality of superimposed members to be riveted together, an anvil carried by one of the arms and facing the other arm, said other arm having an opening therethrough in line with the anvil, a barrel extending through said opening and adjustable axially therein, whereby said members can be clamped between the barrel and anvil, means carried by the outer end of the barrel for supporting an explosive cartridge, the barrel being adapted to slidably receive a stud, and means carried by the outer end of the barrel to detonate the cartridge in order to drive the stud partially through said members, said anvil being provided with a socket shorter and wider than the portion of the stud partially driven through said members to receive that portion in order to upset it to form a head engaging the superimposed members.

2,590,586
FISH NET FORMED OF SYNTHETIC RESIN STRANDS AND STRANDS THEREFOR AND METHOD OF PRODUCING SAME
Walter E. Thompson, Jr., Watertown, and Rollin W. Taylor, Terryville, Conn., assignors to The Heminway & Bartlett Mfg. Co.
Application November 21, 1951, Serial No. 257,452
31 Claims. (Cl. 87—12)



1. A fishnet consisting mainly of coated high-polymer synthetic resin strands knotted together at intervals to form the desired open mesh of the fishnet, each of the coated strands comprising a core of high-polymer synthetic resin stretched and set to render it substantially retraction-proof when the fishnet is wetted at ordinary temperatures of use, and a water-insoluble coating of synthetic resin tightly adhering to said core, which coating has greater compressibility than the material of said stretched and set core, the coating of one strand being forced into tight engagement with the similar coating of another strand at the knotted-together portions of the fishnet whereby the fishnet is rendered substantially immune to the opening-up of its said knotted-together portions under conditions of use.

2,590,587
FLUID PRESSURE RELAY FOR BRAKE MECHANISMS
Henry William Trevaskis, Solihull, England, assignor to Dunlop Rubber Company Limited, London County, England, a British company
Application July 7, 1948, Serial No. 37,381
In Great Britain July 11, 1947
4 Claims. (Cl. 137—144)



1. A fluid pressure relay device for the control of two fluid pressure operated mechanisms which comprises a casing, two compartments within said casing in side by side relationship, a valve-controlled inlet passage at one end of each compartment, an axially movable valve-control member within each compartment adjacent the inlet end thereof, an exhaust passage in said member, an axially movable actuating member within each compartment coaxial with the valve-control member and having a lost-motion connection with said member, two fluid-tight connections between each valve-control member and the wall of its compartment and a fluid-tight connection between each actuating member and the wall of its compartment, said connections dividing each compartment into an operating chamber communicating with the valve-controlled inlet, an exhaust chamber communicating with the operating chamber through the exhaust passage and a control chamber, inlet and exhaust valves in each compartment co-operating with the inlet and exhaust passages respectively, said valves being actuated by axial displacement of the valve-control member, means for connecting each inlet valve to a source of pressure fluid, means for connecting each operating chamber to a fluid pressure operated mechanism, and means for connecting each control chamber to a source of pressure fluid, and a lever mechanism for adjusting relative axial movement of the two actuating members which comprises a lever in operative connection at each end with one of said actuating member, and a pivot for said lever displaceable to vary the relative distances of the pivot from the ends of the lever.

2,590,588
STRUCTURE
David A. Wallace, Grosse Pointe Farms, Mich., and Paul Eugene Wallace, Omaha, Nebr., assignors, by mesne assignments, to said David A. Wallace
Application September 7, 1946, Serial No. 695,352
5 Claims. (Cl. 189—88)

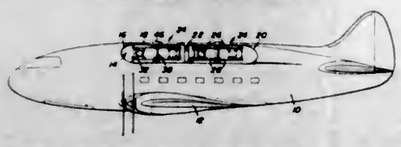
1. In combination in a prefabricated building construction, a sheet metal building frame rib having a slotted edge, a sheet metal cross frame

member having a margin secured within said slotted edge of the frame rib member and extending cross-wise of the frame rib member to opposite sides thereof, the opposite margin of



said cross frame member being slotted, and a sheet metal sheathing panel having an inturned rib secured within the slotted margin of said cross frame member.

2,590,589
AIRPLANE WITH AUXILIARY LIFT MEANS
Bolesław Warchałowski, Amsterdam, N. Y., assignor of forty-five per cent to Thomas Lorenc, Herkimer, N. Y.
Application February 25, 1949, Serial No. 78,366
2 Claims. (Cl. 244—6)



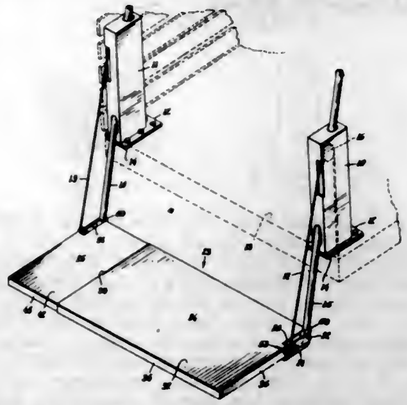
1. Lift means for an aircraft including a quadrafoil comprised of upper and lower parallel airfoils, a motor driven airscrew carried by and operatively associated with said quadrafoil, said quadrafoil being freely rotatably mounted on a vertical shaft supported on an aircraft, and means directly engaging portions of the quadrafoil to brake said quadrafoil and to lock the same in position parallel to the longitudinal axis of the aircraft.

2,590,590
GAUGE FOR VEHICLE WHEELS
Joseph L. Wilson, Matawan, N. J.
Application May 14, 1947, Serial No. 748,025
2 Claims. (Cl. 33—203.2)



1. In a wheel aligning gauge, a pair of tubular members telescopically assembled for relative endwise movement, means at the outer ends of said members for engaging the rims of the wheels, a gauge member mounted on one of said tubular members and positioned relatively to the telescoped ends of said tubular members, the said one tubular member having an elongated slot in its telescoped end and in line with a like slot formed in said gauge member, the slot in said gauge member having a scale of graduations extending along the lower edge thereof, an index carried by the telescoped end of the other of said tubular members and projecting through the aligned slots for cooperation with the said scale of graduations, a screw shaft journalled at its opposite ends in the lower part of said gauge member, a second index mounted on said shaft, and a knurled head at one end of said shaft for turning the same to affect movement of said second index therealong relative to the said scale of graduations.

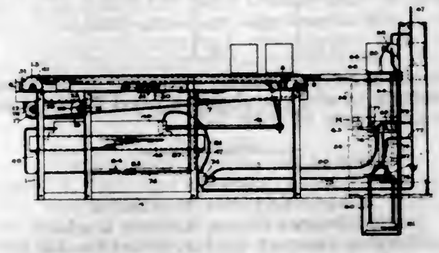
2,590,591
ADJUSTABLE TAIL GATE LIFT ASSEMBLY
Herman E. Winkler, Lebanon, Ind., assignor, by mesne assignments, to U. S. Machine Corporation, Lebanon, Ind., a corporation of Indiana
Application March 28, 1950, Serial No. 152,329
14 Claims. (Cl. 214—75)



1. A load-lifting kit comprising a pair of towers, means for securing said towers independently to a selected foundation in laterally-spaced relation at a selected distance from each other, each tower providing guide means, a slide element for each tower freely reciprocably mounted in the guide means of its tower, said slide elements being guided for reciprocation along parallel, generally vertical paths, a platform comprising a plurality of joined sections relatively adjustable in the direction of spacing between said towers and having a range of adjustment covering such selected distance, means providing a pivotal connection between one of said sections and one of said slide elements adjacent the lower end of the latter, means providing a pivotal connection between another of said sections and the other of said slide elements adjacent the lower end of the latter, said pivotal connections being established upon a common axis substantially at a common edge of said platform adjacent said towers, said platform spanning said slide elements and projecting therefrom, at times, away from said towers, halyard means operatively connected to said platform adjacent each of said pivotal connections but spaced from said towers beyond said pivotal connections, and means for controlling said halyard means to control reciprocation of said slide means and the adjusted position of said platform about said pivotal connections relative to said towers.

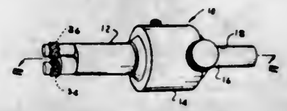
2,590,592
ARTICLE TRANSFER MECHANISM
Walter B. Wittemann, Interlaken, N. J.
Application May 14, 1948, Serial No. 27,067
25 Claims. (Cl. 198—20)

8. An article transfer mechanism comprising a conveyor, at least one projectable and retractable member for transferring articles to said conveyor, means for projecting and retracting said member, a driver chain, a pawl-supporting means carried by said projectable and retractable member, a pawl supported by said pawl-supporting means and engageable with said driver chain to impart a driving force thereto in timed relation with the operation of said projectable and retractable member, means for reducing the rate of travel of the projectable and retractable member during its retraction stroke prior to the engagement of the pawl with the driver chain, and means operatively connecting the driver



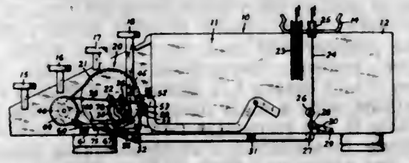
chain with the conveyor, whereby a driving force imparted to the driver chain by the pawl is transmitted to the conveyor.

2,590,593
ADJUSTABLE TOOL
Joseph J. Wittman, Detroit, Mich.
Application May 15, 1950, Serial No. 162,101
2 Claims. (Cl. 80—5.1)



1. An adjustable tool for machining internal surfaces of a cylindrical hole comprising a body member, a plurality of shafts journaled in parallel relationship in said body member, pins mounted in each of said shafts in offset positions and adapted for mounting cutting tools in parallel relationship thereon, a sleeve member mounted for rotation on said body member, means operatively disposed between said sleeve member and said shafts for rotating said shafts relative to said body member, and a screw mechanism for rotating said sleeve member with respect to said body member so that when said screw mechanism is actuated the effective cutting diameter of said tool can be selectively determined.

2,590,594
SPRING POWERED TYPE BAR ACTUATING MECHANISM FOR TYPEWRITERS
Lin Yutang, Zurich, Switzerland
Application August 22, 1950, Serial No. 180,719
8 Claims. (Cl. 197—17)



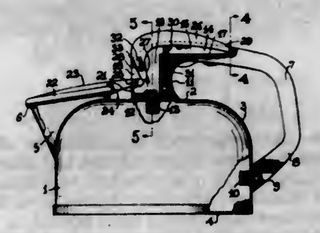
1. In a typewriter having manually depressible key elements to actuate type bars; the combination of a projection on each key element, a spring motor, a rotary member driven by said motor and having outwardly extending arms corresponding to each projection and adjacent to each key element, each arm being rotatable through a path intersecting the path traversed by a corresponding projection, during depression of the key element bearing the projection, to engage the projection and fully depress the key element, the projection normally being outside the paths of said arms when the key elements are not depressed, a releasable latch to retain said rotary member against rotation, and means responsive to depression of any of said key elements sufficiently to bring its projection into the path of a corresponding arm to release said latch and allow said rotary member to rotate and fully depress the key element.

2,590,595
GAFF HOOK
Harvey R. Ziebell, Oshkosh, Wis.
Application October 18, 1947, Serial No. 780,703
2 Claims. (Cl. 294—26)



1. A gaff hook comprising a handle having a forwardly projecting terminal provided with a longitudinally extending groove, a shank having a hinge barrel on its inner end fitted in the rear end of said groove, a bight portion and bill on its forward end, a pivot pin extending through the hinge barrel and the forwardly projecting terminal, said shank being movable in the groove, and means carried by the extended portion for locking the shank in said groove.

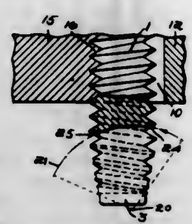
2,590,596
TEAKETTLE
Manuel S. Ziskin, University Heights, and Ralph B. Billig, Erieside, Ohio, assignors to Kromex Corporation, Cleveland, Ohio, a corporation of Ohio
Application April 8, 1948, Serial No. 19,684
5 Claims. (Cl. 222—474)



1. In a teakettle of the character described, a receptacle having a body portion and closed top,

a spout extending from said receptacle, a closure for said spout, a handle secured to said receptacle, means for raising said closure, said means comprising a lever pivotally mounted in the upper portion of said handle, and adapted to be depressed by the thumb of the hand which grasps said handle, and means constraining said lever to move in a predetermined pivotal path and preventing said lever from becoming displaced from said handle, said last-named means comprising an arcuate slot extending transversely through the lever and a pin extending through said slot and having its ends mounted in said handle.

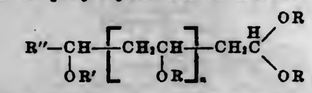
2,590,597
METHOD OF SLOTTING THE SHANKS OF SCREW FASTENERS
Frank K. Brown, South Dartmouth, Mass., assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass., a corporation of Massachusetts
Application July 22, 1949, Serial No. 106,232
1 Claim. (Cl. 10—2)



The herein described process of slotting threaded fasteners, which consists in holding the fastener to be slotted by a thread-engaging gripper in alignment with a saw to cut the slot and with the center of the saw eccentric to the axis of the fastener, thereupon effecting relative movement between the fastener and saw lengthwise of the fastener to cut a slot in the same from the pilot end inwardly to a predetermined depth, the depth of the saw-cut being slanting from the entering edge to the emergence, with the entering cut formed on the flank of a thread face at a relatively acute angle and emerging from the same thread face at nearly a right angle, whereupon the tendency to create a burr is eliminated.

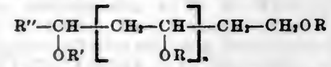
2,590,598
POLYETHERS AND PROCESS OF PREPARING THE SAME
John W. Copenhaver, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 7, 1948, Serial No. 64,039
8 Claims. (Cl. 260—615)

1. The method of producing polyethers by the reduction of polyoxyacetals of the formula:



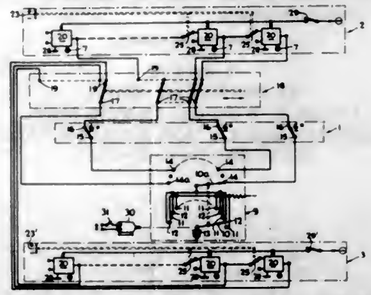
wherein the R's represent the same or different hydrocarbon radicals chosen from the group consisting of alkyl, aryl and aralkyl radicals, and n is a whole number including 0 and less than 10, which comprises subjecting said acetal to the action of hydrogen at a pressure of at least 1,000 pounds per square inch and a temperature of at least 160° C. under substantially anhydrous neutral to alkaline conditions, and in the presence of a metal hydrogenation catalyst.

5. Compounds of the formula



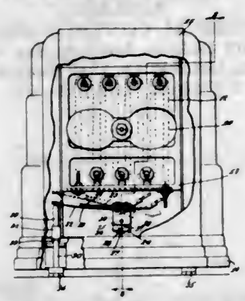
where in the R's represent a member of the group consisting of alkyl, aryl and aralkyl radicals and n is an integer of from 1–5.

2,590,599
CALCULATING MACHINE
David Silvester Evans, Radlett, England
Application January 6, 1950, Serial No. 137,099
In Great Britain January 7, 1949
12 Claims. (Cl. 235—61)



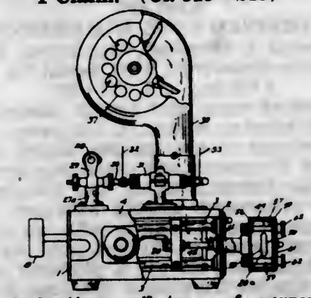
1. A binary calculating machine capable of operation to perform addition, subtraction, multiplication and division, comprising a binary accumulator having a plurality of elements each occupying a position identifiable with one of the digit places of a binary number to be entered in the accumulator and each operable to assume either one of two states respectively identifiable with binary 0 and binary 1, column-transfer means associated with each element identifiable with a lower digit place and rendered operative by each alternate change in state of the associated element directly to change the state of the element identifiable with the next higher digit place, conditioning means operable to either one of two positions in one of which the transfer means are rendered operative by those changes of state of the accumulator elements which each correspond to a change from binary 1 to binary 0, these elements then being conditioned for addition, and in the other of which positions the transfer means are rendered operative by those intervening changes of state which each correspond to a change from binary 0 to binary 1, the accumulator elements then being conditioned for subtraction, a binary register having a plurality of devices each identifiable with one of the digit places of a binary number to be entered in the register and each operable to either one of two settings respectively identifiable with binary 0 and binary 1, a plurality of means each associated with a digit place of the register and operable if the respective device is in its binary 1 setting to transmit a state-changing impulse from the associated digit place to that accumulator element which is in the same relative digit place in a group of such elements, operating means which when actuated will sequentially operate all the impulse-transmitting means, for which the associated register devices are in the binary 1 setting, in a predetermined order of significance of digit place and at intervals of time at least long enough to permit a change of state of an accumulator element to be effected in the interval between any two successive impulses, a register comprising digital counting means, and means adapted to change the indication of the counting means by one digit in the least significant digit place for each transmission of a sequence of state-changing impulses to the group of accumulator elements identifiable with the least significant digit places of the binary number to be entered in the accumulator.

2,590,600
ELECTRIC ROOM HEATER
Edward A. Farr and John P. Theisen, Columbus, Ind., assignors to Arvin Industries, Inc., Columbus, Ind., a corporation of Indiana
Application July 2, 1948, Serial No. 36,684
7 Claims. (Cl. 219—39)



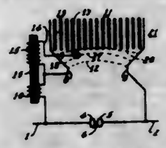
1. In an electric room heater, a frame, an electrical resistance heating element supported from said frame, feet for supporting said frame from a horizontal supporting surface, a vertical rod bearing one of said feet at its lower end and mounted in said frame for sliding movement downwardly relative to the frame from a normal position in which the associated foot is co-planar with the remaining feet, and switch means for controlling the supply of current to said heating element, said switch means comprising a support, upper and lower flexible leaves mounted on said support, switch contacts carried by said leaves, said leaves when unstressed supporting said contacts in spaced relation, said support being swingable to force the lower leaf downwardly against the upper end of said rod whereby to flex the lower leaf to cause interengagement of the contacts and the application of a downwardly directed force to said rod, and releasable means for holding the support against movement as a result of the reaction of the lower leaf upon it.

2,590,601
APPARATUS FOR VIOLET RAY TREATMENT
Christian G. Filzer, Erie, Pa.
Application May 18, 1949, Serial No. 94,028
1 Claim. (Cl. 315—248)



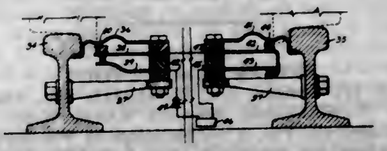
In an induction coil type of current generator designed for supplying violet ray apparatus and the like, the current generator including a magnetic coil and a condenser, a case enclosing the magnetic coil, hollow studs projecting from a wall of the case, a condenser enclosing case carried by the projecting ends of the studs, leads for the condenser extending through the studs, a motor driven fan energized during the operation of the current generator carried by and for blowing cooling air into the coil enclosing case, an air outlet in said wall, and an air inlet to the condenser enclosing case aligned with and facing into the air stream discharged from said outlet, the inlet to the condenser coil being spaced from the outlet from the coil case whereby the cooling air discharged from the coil case flows across the intervening space.

2,590,602
CIRCUIT INTERRUPTER
Russell E. Frink, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 27, 1947, Serial No. 776,502
14 Claims. (Cl. 200—147)



14. A circuit interrupter including a pair of separable contacts for establishing an arc, arc-extinguishing means including an arc chute composed mainly of insulating material including a plurality of spaced insulating portions against the edges of which the arc is forced, a conducting probe disposed intermediate the ends of the arc chute so that insulating portions exist on both sides of the probe, a pair of stationary arc horns at opposite ends of the arc chute, blowout means including a pair of tightly coupled blowout coils connected in series and shorted out in the closed circuit position of the interrupter, one of the arcing horns being connected intermediate the coils, the probe being connected to the end of one of the coils, one of the separable contacts being connected to the other end of the other of the coils, the other of the separable contacts being connected to the other arcing horn, the arrangement functioning to successively insert the coils into series circuit with the transfer arc of the said one of the coils being interrupted in the portion of the arc chute between the probe and said one of the arcing horns, and said one of the blowout coils having more turns than the other of the blowout coils.

2,590,603
RAILWAY WHEEL CHECKING DEVICE
Marion W. Gieskieng, Denver, Colo.
Application January 31, 1949, Serial No. 73,679
4 Claims. (Cl. 246—218)



1. A missing wheel detector for use on the two rails of a railway track, comprising: a first relatively long, wheel contact member positioned to

be contracted by wheels passing along one rail; a second relatively short, wheel contact member positioned to be contacted by wheels passing along the other rail approximately opposite the mid-portion of the first contact member; and a signal circuit including both contact members; a first means actuated by said first contact when the latter is contacted to prevent current flow through said signal circuit; and a second means actuated by said second contact for causing current flow through said circuit unless said first means is actuated.

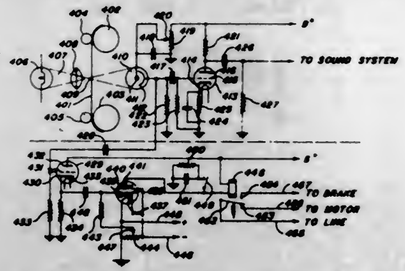
2,590,604

MOVIE PROJECTOR SAFETY DEVICE

Philip Giuffrida, Lawrence, Mass., assignor to Photoswitch Incorporated, Cambridge, Mass., a corporation of Massachusetts

Original application November 1, 1946, Serial No. 707,107. Divided and this application June 10, 1948, Serial No. 32,193

3 Claims. (Cl. 88—17)



1. In combination with a motion picture projector having a photoelectric target for receiving a light beam from a source modulated in accordance with the characteristics of an intervening film sound track whereby a sound amplifier is operated, an improved safety device which comprises an alternating-current amplifier having an input and output circuit, said input circuit being connected between the output of said photoelectric target and the input of said sound amplifier, said output circuit including a gas tube and a safety control relay for initiating emergency action upon film breakage, said relay being operated by current flow in an anode-cathode space path of said gas tube, and an adjustable biasing network connected to said gas tube and being so adjusted that the amplitude of the alternating-current impulses generated by said photoelectric target in response to the modulation of said light beam by said film sound track is insufficient to discharge said gas tube whereas the initial impulse generated by said photoelectric target in response to the absence of said intervening film from between said photoelectric target and said light source due to breakage is sufficient to overcome said bias and discharge said gas tube whereby said relay is operated thereby initiating an emergency action in response to film breakage.

2,590,605

SERIES LAMP CUTOUT

Frank W. Godsey, Jr., Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 28, 1950, Serial No. 152,419

8 Claims. (Cl. 200—118)

1. An electric cutout device comprising, two conducting surfaces, spacer means disposed in contact relation therebetween, said spacer means being formed of a non-linear conducting material, a movable contact member mounted on one of said surfaces, a thermally responsive



means normally retaining said contact member in an open position, and operable to connect said surfaces together when heated to a predetermined degree by current flow through said spacer means.

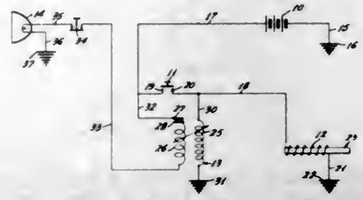
2,590,606

ELECTRICAL CONTROL CIRCUIT

Robert Golden, Los Angeles, Calif.

Application October 11, 1948, Serial No. 53,838

5 Claims. (Cl. 171—97)



5. An electrical control circuit comprising a source of electrical energy; normally open switch means having at least three terminals, the first connected to said source of energy and the second and third adapted to be connected to independent, energizable circuits, both of said circuits being energized through said switch means simultaneously upon actuation thereof; a first electrical load connected to said second terminal and constituting the first of said energizable circuits; a second electrical load, a normally closed switch, and a relay coil, connected in series and to said third terminal and constituting the second of said energizable circuits; and relay contacts, biased to open position, closed upon energization of said relay coil, and connected in shunt across said switch means, thereby maintaining said relay and second load energized after opening of said switch means, whereby said first load is energized only when said switch means is held closed, while said second load is energized continuously after initial closing of said switch means and until opening of said normally closed switch.

2,590,607

COMBINED CANE AND CRUTCH

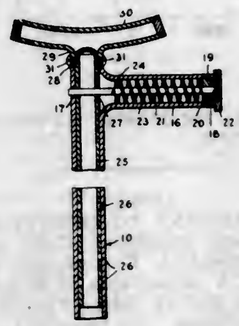
Burmain A. Grimball, Charleston, S. C.

Application October 27, 1949, Serial No. 123,944

1 Claim. (Cl. 135—50)

A combined cane and crutch comprising an elongated tubular shank, a transverse tubular handle secured to the tubular shank near the top end of the shank and extending beyond one side of the tubular shank, the tubular shank having a transverse locking aperture adjacent to the transverse tubular handle, an elongated crutch staff telescopically mounted within the tubular shank and having a plurality of longitudinally spaced transverse openings for registration with the locking aperture, a cross piece secured to the upper end of the crutch staff, a

longitudinally shiftable transverse locking pin mounted within the transverse tubular handle and extending entirely through the tubular handle, the inner end of the locking pin being adapted to enter the locking aperture and a selected one of the transverse openings of the crutch staff for releasably locking the crutch staff in a selected adjusted position, a spring mounted within the tubular handle and connected with the locking pin and urging it longitudinally inwardly, and a knob secured to the outer end of the locking pin beyond the outer end of the tubular handle and having its marginal edge projecting beyond the periphery of the tubular handle so that the locking pin may be retracted by sliding the hand longitudinally along the tubular handle into engagement with the knob to pull the knob outwardly.



2,590,608

METHOD OF MAKING PILE FABRICS

Francis P. Groat, Bloomsburg, Pa., assignor to The Magee Carpet Company, Bloomsburg, Pa., a corporation of Pennsylvania

Application December 28, 1949, Serial No. 135,444

8 Claims. (Cl. 139—39)



5. A method of weaving on a wire loom a high and low loop pile fabric having a backing and a plurality of pile warps which comprises raising the pile warps from the backing in accordance with a pattern and restoring them to the backing to form transverse rows of high and low loops arranged in alternation, increasing the height of the rows of low loops to a height less than the height of the high loops and reducing the height of only those high loops of those pile warps of which portions are raised to form low loops in the next succeeding row.

2,590,609

PILE WIRE

Francis P. Groat and Harry W. Hill, Bloomsburg, Pa., assignors to The Magee Carpet Company, Bloomsburg, Pa., a corporation of Pennsylvania

Application December 28, 1949, Serial No. 135,445

8 Claims. (Cl. 139—44)

1. A pile wire for wire looms comprising a shank having a raised portion at one end and



lateral flanges on said shank for maintaining the raised portion in an erect position when inserting or withdrawing the wire.

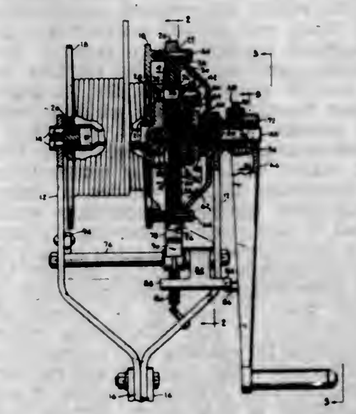
2,590,610

WINCH

George S. Grosch, Milwaukee, Wis., assignor to Safway Steel Products, Inc., Milwaukee, Wis., a corporation of Wisconsin

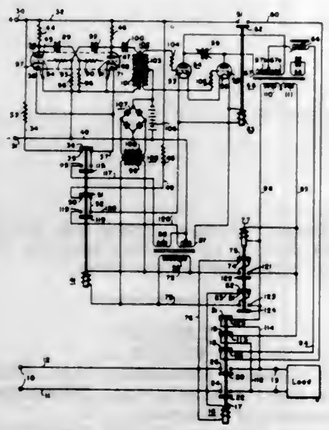
Application February 18, 1948, Serial No. 9,079

9 Claims. (Cl. 254—187)



1. In a hand-operated winch, a frame having a winding drum rotatably mounted therein, a ring gear fixed with respect to the drum, a shaft having a sun gear fixed thereon, a pin having a planetary gear mounted thereon in engagement with said sun and ring gears, a portion of said shaft being threaded, a self-locking brake mechanism mounted on said shaft and comprising a brake disk carried by said shaft, a handle fitting threadedly engaging the threaded portion of said shaft, a ratchet disk between said brake disk and said handle fitting, the pitch of said threaded portion being adapted to move said fitting into frictional engagement with said disks in response to a force tending to unwind cable from the drum, a pawl biased into engagement with said ratchet disk to prevent rotation thereof in the cable unwinding direction.

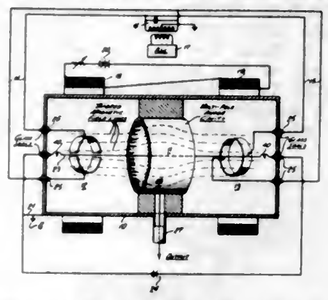
2,590,611
POWER SUPPLY
Frank B. Gunter, Glen Burnie, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 29, 1949, Serial No. 124,431
8 Claims. (Cl. 171—97)



8. A power supply system comprising alternating current input connections, alternating current output connections, connections between said input and output connections, direct current input connections, a parallel inverter including a pair of gas filled electron tubes having control grids and anodes, an output transformer having a primary winding connected to said anodes, and having a secondary winding, connections between said secondary winding and said output connections, a commutator capacitor connected to said anodes, a differentiating transformer having a secondary winding connected to said grids and having a primary winding, a multivibrator connected to said direct current connections and to the primary winding of said differentiating transformer, and means actuated when no current or current of reduced voltage flows in said alternating current input connections for opening said connections between the alternating input and output connections, for connecting said primary winding of said output transformer to said direct current connections, and for closing said connections between said secondary winding of said output transformer.

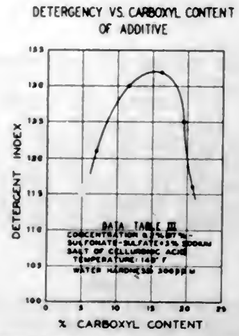
2,590,612
HIGH-FREQUENCY ELECTRON DISCHARGE DEVICE AND CIRCUITS THEREFOR
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application July 25, 1944, Serial No. 546,467
30 Claims. (Cl. 315—40)

29. An electron device comprising a large anode structure and a small anode structure located within a single evacuated envelope, and spaced from each other along the axis of said envelope, a cathode extending within and between said anode structures, means coupled to said anode structures and to said cathode for applying a potential difference therebetween, means adjacent said envelope for applying a magnetic field to the space within and between said anode structures, and means coupled to said large



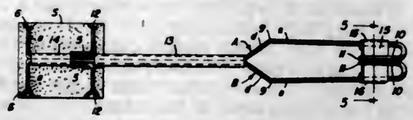
anode structure for deriving alternating current energy therefrom.

2,590,613
DETERGENT COMPOSITION
John E. Hanson, Richmond, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application May 24, 1948, Serial No. 28,853
5 Claims. (Cl. 252—161)



1. A detergent composition comprising a water-soluble salt of a celluronic acid, having a carboxyl content from about 7 to about 20% by weight based on the acid, and an alkaryl sulfonate detergent containing from 8 to 20 carbon atoms in the alkyl chain, said water-soluble salt of a celluronic acid being present in a minor amount sufficient to enhance the detergency characteristics of said sulfonate detergent, and said amount being from at least 1% to less than 50% by weight based on the surface active alkaryl sulfonate component of said alkaryl sulfonate detergent.

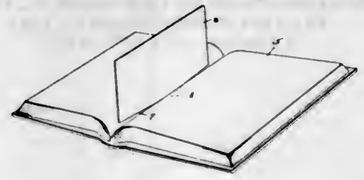
2,590,614
BATH SPONGE HOLDER
Henry Leonard Hawkins, Sr., Rustburg, Va.
Application April 13, 1949, Serial No. 87,314
1 Claim. (Cl. 15—154)



A device adapted to hold and form a detachable handle for a bath sponge or the like, comprising two symmetrical stiff wire members, each having a straight elongated shaft portion, a sponge gripping portion including a lateral arm on the

front end of the shaft portion and a depending prong on the outer end of the arm and provided with an inwardly directed pointed terminal, a crank portion on the rear end of the shaft portion composed of a laterally outward and upwardly extending forward arm and a laterally inward and downwardly extending longer rear arm, and an inwardly and upwardly and then forwardly extending slide-retaining arm on the rear end of the crank portion having a short lateral terminal, a sponge gripping element similar to the sponge gripping portion secured to the shaft portion inwardly of and in spaced relation to said sponge gripping portion, said wire members being disposed side by side so that the shaft portions thereof are in parallel contacting relation and the gripping portions and elements extend away from each other, bearing sleeves in which the shaft portions of said wire members are journaled, said bearing sleeves respectively extending between said gripping elements and said crank portions and between said gripping portions and said gripping elements, and a slide movable on the rear arms of said crank portions for rotating the wire members about the axes of said shaft portions so as to swing the gripping portions and elements toward and away from each other, the lateral terminals of said slide retaining arms being movable to depending positions in front of the slide to hold the latter in its rearward position when said slide is moved rearwardly to swing the gripping portions and elements into gripping engagement with the sponge.

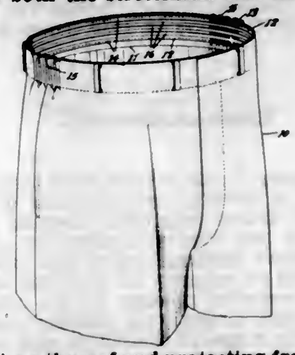
2,590,615
REMOVABLE PAGE AND BOOKMARK
Clarence Heckendorn, Charlotte, N. C.
Application February 2, 1950, Serial No. 141,902
1 Claim. (Cl. 116—119)



A book-mark comprising a body portion formed of a substantially rectangular sheet of semi-rigid material, one longitudinal edge of the body portion being straight, the other longitudinal edge of the body portion being inclined inwardly from a point intermediate the ends of said edge, providing a narrow tab intermediate the ends of one edge of the body portion, said tab adapted to be wedged between leaves of a book at a point where the leaves of the book are secured together, securing the book-mark in position, place marking the book.

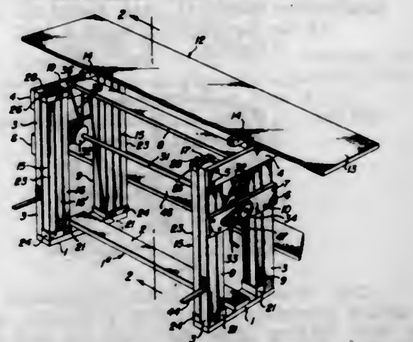
2,590,616
WAISTBAND
Max Heller, Brooklyn, N. Y.
Application January 11, 1950, Serial No. 137,971
2 Claims. (Cl. 2—237)

1. A garment structure comprising a shirred portion and a band attached to said garment, said band having a stretchable portion juxtaposed to said shirred portion, and having non-stretchable portions extending from the ends of the stretchable portions, and friction material extending substantially the length of the said band inclusive of both the stretchable and non-stretch-



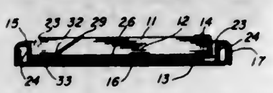
able portions thereof and projecting from the face of said band inwardly of the garment.

2,590,617
SCAFFOLD FOR HANDLING SHEET MATERIAL
Lee R. Henderson, Kosmos, and Alfred C. Seago, Yakima, Wash.
Application July 5, 1949, Serial No. 103,064
2 Claims. (Cl. 304—29)



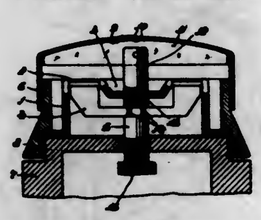
1. In a scaffold for applying work to ceilings, a substantially rectangular frame, end guide posts at the corners of the frame, pairs of extension post structures at the ends of said frame comprising pairs of side-by-side relatively fixed spaced apart posts, and a single post associated with each pair of relatively fixed posts, means to mount one of the relatively fixed posts of each pair on each guide post for vertical sliding of the pairs of relatively fixed pairs on said guide posts, means to mount the single posts on the other posts of the relatively fixed pairs for vertical movement therewith and vertical sliding independently thereof comprising guides for the single posts straddling the same and fixed to said other posts, and slides straddling the single posts and said other posts and running in the spaces between the posts of the relatively fixed pairs of posts, a work-supporting platform carried by the single posts, and cable wind-up means operatively connected to said relatively fixed pairs of posts and said single posts to lift the same simultaneously and the single posts independently, said platform and single posts counterbalancing the force required to lift said relatively fixed pairs of posts, whereby the relatively fixed pairs of posts and the single posts will be lifted simultaneously and the single posts subsequently lifted independently with respect to said relatively fixed pairs.

2,590,618
HOLDER FOR INVOICE BOOKS
Forest C. Hodkin, Dallas, Tex.
Application February 14, 1950, Serial No. 144,105
5 Claims. (Cl. 281—15)



1. A holder for an invoice book having a back including, a housing having a pair of substantially flat frame members, coacting marginal flanges on the frame members for connecting said members together, one of said frame members having an opening for receiving the invoice book in overlying relation to the other frame member, and a retaining member confined in the opening in spaced relation to said underlying frame member for receiving a major portion of the back of the book therebeneath to secure said book in said opening.

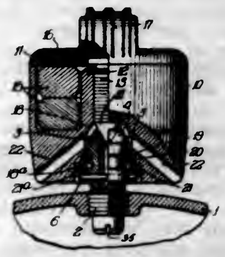
2,590,619
CUTTING PLATE FOR A DRY-SHAVING APPARATUS
Karel Reinout Hofland, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 11, 1948, Serial No. 14,305
In the Netherlands April 9, 1947
7 Claims. (Cl. 30—43)



1. Dry shaving apparatus comprising a first cutting assembly comprising a housing member, a first cutting plate mounted on said housing and having an annular cutting surface, said cutting plate being provided with a central aperture, a first rotatable cutter member engaging said cutting plate and a rotatable spindle member engaging said cutter member and having the axis thereof coincident with said central aperture, and a second cutting assembly detachably coupled to said first cutting assembly, said second cutting assembly comprising a second cutting plate, a second cutting member engaging said second cutting plate and means engaging said rotatable spindle for actuating said second cutter member.

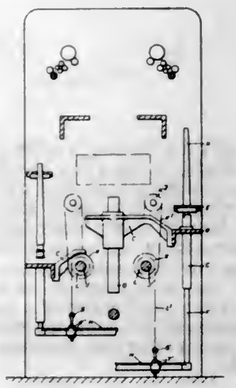
2,590,620
SAFETY AND RELEASE VALVE FOR PRESSURE COOKERS
Frank J. Holbik, Racine, Wis., assignor to Speed-Meal Corporation, Racine, Wis., a corporation of Delaware
Application January 30, 1948, Serial No. 5,472
6 Claims. (Cl. 137—53)

1. In a safety valve for pressure cookers, a generally cylindrical body having a concentrically located threaded opening; a screw threaded through said opening; a knob fixed on the upper end of said screw and disposed above said body; a valve element formed on the lower end of said screw; a counterbore in the bottom of said body located concentrically of said threaded opening; a generally cylindrical valve stem projecting into said counterbore and having a concentrically located cylindrical opening; a valve seat on the upper end of said valve stem around said opening, said valve element engaging said valve seat to support said body, screw and knob on said stem and to seal said valve stem opening against predetermined pressure, there being grooves in the bottom of said body



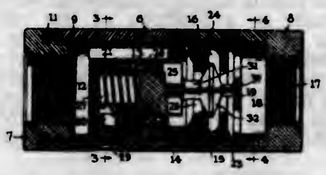
extending radially outwardly from said counterbore; means on said valve stem projecting into said grooves; and a radial wall at one end of each groove moved into engagement with said means by a counterclockwise rotation of said knob, screw and body to stop the rotation of the body so that further rotation of the screw will lower the body onto said means and then raise said valve element off of said valve seat to vent said valve stem opening.

2,590,621
RING SPINNING MACHINE
Norbert Hooper, Castleton, Rochdale, England, assignor to Tweedales and Smalley (1920) Limited, Castleton, Rochdale, England, a corporation of Great Britain
Application March 21, 1950, Serial No. 150,861
In Great Britain March 21, 1949
3 Claims. (Cl. 242—43.4)



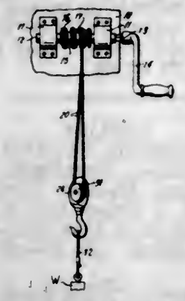
1. A method of building the yarn on a cop or bobbin in a ring spinning frame consisting in simultaneously moving the ring rails upwardly and the spindle rails downwardly and vice versa, thereby relatively displacing the positions of the ring and spindle with half the amount of overall movement that is ordinarily necessary and simultaneously winding the yarn on the cop or bobbin so as to cause the yarn to be wound on the cop or bobbin in a manner suitable for the type of package being produced.

2,590,622
FEEDER CONTROL FOR HYDRAULIC PUMPS
Matthew W. Huber, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application March 18, 1949, Serial No. 82,183
6 Claims. (Cl. 103—11)



1. The combination of a hydraulic pressure-developing pump having an intake in which a positive pressure below a predetermined maximum should be maintained; a feeding pump connected to deliver liquid to said intake and capable of delivering liquid at pressures above said maximum; and regulatory means interposed in the connection between the feeding pump and said intake and comprising a valve and related seat having an open position affording free flow and a graduated series of flow throttling positions, yielding means biasing the regulatory means toward open position, and pressure motor means responsive to pressure in said intake and serving to move said regulatory means away from said open position to an extent which is a function of said pressure.

2,590,623
CONCENTRIC HELICAL DRUM DIFFERENTIAL WINCH
Alexander B. Hulse, Jr., Dallas, Tex.
Application April 23, 1949, Serial No. 89,237
11 Claims. (Cl. 254—167)



1. In a differential drum winch of the type wherein a flexible cable has its opposite ends secured to the drum and a loop between its ends extending outwardly from the drum, the improvement which includes, a cylindrical drum member rotatable upon its longitudinal axis, and a pair of substantially co-extensive concentric helical grooves of different diameters on said drum member for receiving the ends of the flexible cable.

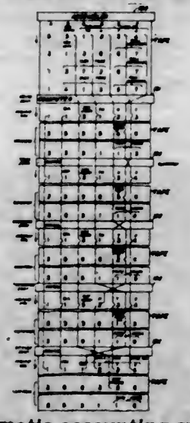
2,590,624
AUTOMATIC SASH CATCH
Bert I. James, Chanute, Kans.
Application May 28, 1949, Serial No. 95,952
4 Claims. (Cl. 292—169)

2. In an automatic window catch, a vertically extending latching member, a pivot pin pivotally mounting said latching member on one part of the window for movement about a horizontal axis and for slidable movement along said pin in a direction transverse to the vertical axis of said latching member toward and from said vertical axis, said latching member having a latch adjacent its lower end opening upwardly and to the side thereof opposite from said pin for sequential cooperation with one of a plurality of vertically spaced holding members mounted on another part of the window, a spring biasing said



latching member along said pivot pin in an extreme position away from the vertical axis of said latching member, positioning the open side of said latch to pass by the holding members during upward movement of the window and to cooperate with the holding members during slight lowering thereof, and positioning the closed side of said latch to pass by the holding members during lowering movement of the window.

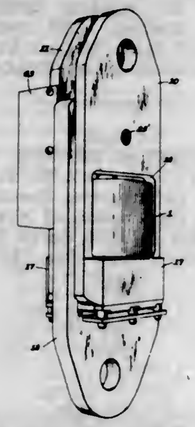
2,590,625
SORTING DEVICE
Amos E. Joel, Jr., New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 16, 1950, Serial No. 162,222
6 Claims. (Cl. 164—115)



1. In an automatic accounting system in which customer charges for uses of given facilities are derived from scattered items of specific and general information including a multidigit index identifying each said facility recorded on continuous tapes during and by the said customer uses of the given facilities and wherein the conversion of said data into customer bills is accomplished in a series of steps by a plurality of accounting devices each of which is adapted to read items of information from an incoming tape and to assemble, sort, translate, compute or otherwise rearrange said items and to record the results on a plurality of outgoing tapes, one of said devices consisting of a sorter for rearranging items in serial number in accordance with the said multidigit index identifying the facility for the use of which a bill is being prepared, said sorter consisting of a reader for reading items of

information from an incoming tape, a plurality of recorders for recording said items on a plurality of outgoing tapes and selective means for selecting one of said recorders for each said item in accordance with an index within each said item, means for rearranging said multidigit index between reading and recording, consisting of means for transferring the digit of said index in each specific item of information used to control said selective means from said specific item to said general items of information and means for transferring an index digit from said general items of information read by said reader to a place in each specific item of information recorded by one of said recorders.

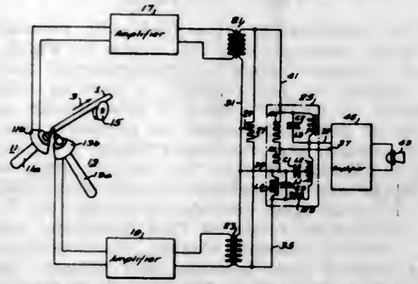
2,590,626
TENSION YOKE FOR COMPRESSION LOAD WEIGHING UNITS
Edgar J. Jones, Cambridge, Mass., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application February 3, 1949, Serial No. 74,378
8 Claims. (Cl. 73—141)



1. A load weighing device adapted to carry tension loads comprising a plurality of adjacent tension plate links having edge surfaces and flat sides, the flat sides of all the plates being disposed in planes parallel to each other and in overlapping relation to each other, and said plates having transversely aligned openings through which a straight line can extend substantially normal to all of said flat sides, said openings being adapted to receive and to permit the plate links to engage a compression type load sensitive element so that said sensitive element is compressed by a tension load applied to the opposite ends of adjacent links.

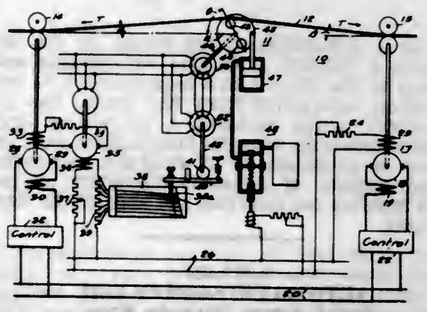
2,590,627
DEVICE FOR MINIMIZING THE EFFECTS OF TORSION WHEN REPRODUCING A MAGNETIC RECORD WIRE
Bernard E. Lenehan, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 29, 1948, Serial No. 24,038
6 Claims. (Cl. 179—100.2)

1. In a system for reproducing an alternating signal having maximum and minimum frequencies which define a frequency range from an elongated magnetic movable member which is transversely magnetizable along its length to thereby produce a recording in accordance with the signal, means for guiding the magnetic movable member in the direction of its length along a predetermined path, said member being subject to rotational movement while influenced by said guiding means, a pair of pickup elements adjacent a predetermined point on the path, said pickup elements being angularly spaced about the path to pickup signal components which vary in magnitude as a function of the rotational orientation of the transverse magnetization of the member, and which have frequencies substantially equal to the signal frequencies, and combining means having terminals for receiving two inputs, said combining means including phase-shifting means for shifting the phase of



one of the inputs relative to the other of the inputs by an angle substantially equal to the angular spacing of the pickup elements, means including connections for supplying the two signal components respectively from said pickup elements as inputs to the combining means, said phase shifting means comprising a resistor connected to receive a first one of said inputs, a capacitor and a first coil connected in a series circuit for energization in accordance with a second one of said inputs, and a second coil mutually coupled to said first coil, translating means, and connections to said translating means for energizing the translating means in accordance with the voltage across said resistor, said capacitor and said second coil in series.

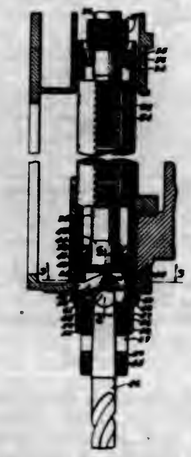
2,590,628
CONTROL SYSTEM
Gerhard P. Lessmann, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 10, 1945, Serial No. 610,123
11 Claims. (Cl. 80—35)



4. A double range tensiometer comprising, stop means rotatable about an axis transverse of and substantially parallel to a strip of material, means for applying a resilient operating torque to the stop means, a support rotatable about the axis of the stop means, a pair of rolls rotatably supported on the support means about axes

parallel to and on opposite sides of the axis of the stop means, and latch means connecting the support and the stop means operable to transmit the operating torque to the support and also permit rotation of the support relative to the stop means.

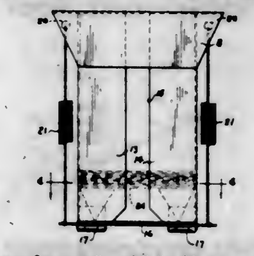
2,590,629
TOOL EJECTOR
Carl E. Linden, Cincinnati, and Frank O. Wetzel, Norwood, Ohio, assignors to The Fosdick Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio
Application February 28, 1948, Serial No. 11,948
5 Claims. (Cl. 77—55)



1. In combination with apparatus for ejecting a tool from the socket of a spindle which is translatably mounted in a drill head, said apparatus being of the type comprising a sleeve slidably mounted on the spindle and which is operatively connected with tool ejector means adapted to be actuated upon longitudinal movement of the sleeve relative to the spindle, means for effecting relative movement between the sleeve and spindle comprising; a slide mounted on the drill head adjacent the spindle, an abutment carried by the slide, said slide being movable into and out of a position in which the abutment is engageable by the sleeve upon retraction of the spindle relative to the drill head, spring means urging said slide out of said position, catch means adapted to hold said slide when it is manually set in said position, and means carried by said spindle for automatically releasing said catch means when the spindle is extended after retraction.

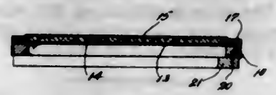
2,590,630
FOOD TRAY RACK
Vincent Lipari, Detroit, Mich.
Application May 20, 1949, Serial No. 94,429
1 Claim. (Cl. 312—43)

A device of the class described, comprising a top; oppositely disposed side walls; a back connecting said side walls, said top being secured to said back and said side walls; a front wall projecting inwardly from each of said side walls, said front walls being spaced apart at opposed edges to provide an open space; a depending flange on the front and the rear of said top, said top projecting outwardly beyond each of said side walls to provide a side flange; a forwardly extended bottom hingedly connected at its rear edge to the lower edge of said back and swingable downwardly from said side walls and said front walls and adapted for supporting a stack of articles positioned thereon, said bottom terminating rearwardly of, in spaced relation to, the location of said front wall; a bar mounted on



the under surface of said bottom and projecting outwardly therefrom at opposite sides thereof; and a pair of springs, each of said springs being connected at one end to one end of said bar and at its opposite end to the depending flange of said top.

2,590,631
DOG BED
Charles F. Loasby, Ridgewood, N. J.
Application September 15, 1948, Serial No. 49,420
1 Claim. (Cl. 5—189)



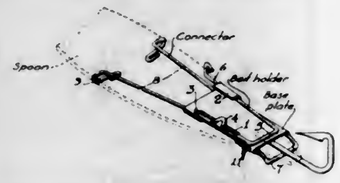
A dog bed comprising a flat open rectangular frame, a flat sheet of a flexible material, such as wire screen, covering the top side of the frame, a layer of padding material overlying said sheet, a covering sheet of relatively soft material, such as a carpet overlying the padding material, fastening means securing the edges of the superimposed materials to the frame, a trim strip, of inverted L-angle form in cross-section, bounding the outer sides of the frame and overlying the said edges of the materials, means securing said strip to the outer sides of the frame, and spaced transversely disposed supporting slats secured on the under side of the frame.

2,590,632
TERTIARY AMINE SALTS OF 3,7-DIAMINODIBENZOTHIOPHENEDIOXIDE 2,8-DISULFONIC ACID
Robert S. Long and Sien Moo Tsang, Bound Brook, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 15, 1950, Serial No. 168,379
9 Claims. (Cl. 260—290)

1. A process for removing 3,7-diaminodibenzothiophenedioxide - 2,8 - disulfonic acid from a mixture thereof with at least one other organic sulfonic acid of the diaminodibenzothiophenedioxide series, which comprises: adding to an aqueous solution of the mixture a salt-forming tertiary amine, said amine being added in amount at least equimolar to said disulfonic acid, maintaining the resultant mixture under reactive conditions until salt-formation is substantially complete, crystallising the resultant amine salt and collecting the crystals.

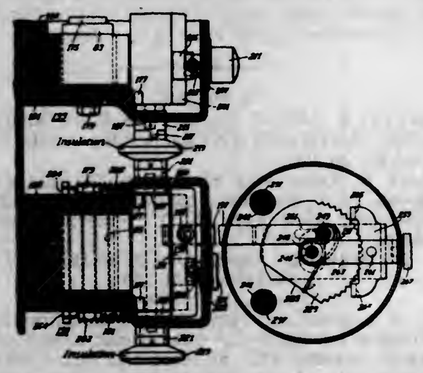
7. The monoamine salt of 3,7-diaminodibenzothiophenedioxide-2,8-disulfonic acid with a tertiary amine.

2,590,633
DEVICE FOR MOUNTING AND INTERCHANGING ACCESSORIES ON A FISHING SPOON
John G. Lucas, Saginaw, Mich.
Application December 9, 1948, Serial No. 64,376
3 Claims. (Cl. 43—42.09)



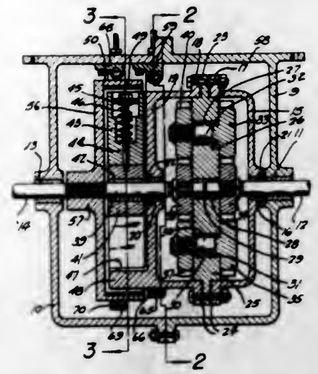
1. Attachment and releasing means of the class described, comprising a base plate so constructed and arranged as to facilitate its mounting on the concave face of a tapered fishing spoon, adjacent the small end thereof; a fish hook fixed to said plate and extending beyond an end thereof; and a connector fixed to the under side of said base plate and presenting a loop portion extending beyond the end of said plate and arranged so as to provide a stirrup adapted to engage and hold the small end of the spoon; said connector having a pair of divergent spring arms extending beyond the other end of the plate; said arms provided at their free ends with detent members constructed to engage the side margins of the spoon and to lock therewith upon the said engagement of the stirrup and the small end of the spoon.

2,590,634
CIRCUIT BREAKER
Leon R. Ludwig, Buffalo, N. Y., and William H. Stuellein, East McKeesport, and Gayne D. Gamel, Verona, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application June 9, 1944, Serial No. 539,450. Divided and this application August 3, 1948, Serial No. 42,314
11 Claims. (Cl. 200—97)



8. In a circuit breaker, a trip-member operable to effect opening operation of said breaker, a time-delay device related to said trip-member for retarding operation of said trip-member, said time-delay device comprising a rotatable member having teeth formed about a portion of its periphery and an oscillator cooperating with said teeth and operable to retard rotation of said rotatable member, means operable in response to abnormal circuit conditions to rotate said rotatable member a distance sufficient to cause said member to escape said oscillator after a predetermined time delay to effect operation of said trip-member, a pivoted member supporting said oscillator for oscillatory movement, and manual means for moving said pivoted member to selectively position said oscillator about the periphery of said rotatable member to vary the amount of time delay.

2,590,635
TORQUE MECHANISM
Hubert P. McAlister, Wyandotte, Mich.
Application July 29, 1948, Serial No. 41,239
7 Claims. (Cl. 74—752)



1. A device of the class described, comprising: a housing; a partition in said housing in fixed relation thereto, said partition having a central opening formed therein; a driving shaft projecting at one end centrally into said housing and terminating at its inner end in said opening; a stub shaft projecting into said housing and terminating at its inner end into said opening; a planetary gearing comprising a central gear and a pair of outer gears meshing with each other, said central gear being mounted on said driving shaft in fixed relation thereto; a pair of gear supporting shafts one projecting from each of said outer gears and extending through an opening formed in said partition; a second planetary gearing in said housing embodying a central gear and a pair of outer gears, each of said outer gears being fixedly mounted on said gear supporting shafts and said central gear being fixedly mounted on said stub shaft; a cup-shaped annular member: a brake lining on the inner surface of the wall of said cup-shaped annular member; a hub projecting outwardly centrally from the face of said cup-shaped annular member, one end of said stub shaft being projected into said hub and in fixed relation thereto; a driven shaft, one end of said driven shaft extending into said hub and in fixed relation thereto; a rotor rotatively mounted upon said stub shaft exterior of said housing; a plurality of circumferentially-spaced radially movable clutch members on said rotor; a spring for normally resisting radial outward movement of said clutch members, said clutch members being in alignment with the brake lining on said cup-shaped annular member; an engagement portion on said housing adapted for engaging said clutch members of said rotor and effecting a rotation of the same in unison with said housing, said clutch members being adapted upon rotation of said housing at a predetermined speed for radially moving outwardly into engagement with said brake lining and tending to effect a rotation of said cup-shaped annular member in unison with said rotor.

2,590,636
KETOHALOGENODIMETHYLPERHYDROPHENANTHRENES AND PROCESS OF MAKING SAME
Karl Miescher, Riehen, and Jean-Rene Billeter, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application September 26, 1949, Serial No. 117,955. In Switzerland October 8, 1948
4 Claims. (Cl. 260—488)

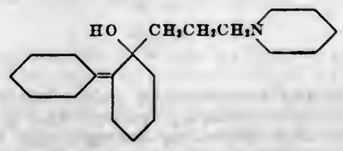
2. A 1-keto-2-bromo-2,13-dimethyl-perhydrophenanthrene carrying in the 7-position a member selected from the group consisting of hydroxy, lower aliphatic acyloxy and lower alkoxy and in 14-position a member selected from the group consisting of hydrogen and chlorine.

2,590,637
DIRECT HALOGENATION OF STEROIDS WITH AN UNSATURATED SIDE CHAIN IN 17-POSITION AND THE DEHYDROHALOGENATION OF RESULTANT PRODUCTS
Karl Miescher, Riehen, and Ludwig Ehmann and Albert Wettstein, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application August 17, 1950, Serial No. 180,098. In Switzerland August 26, 1949
8 Claims. (Cl. 260—239.55)

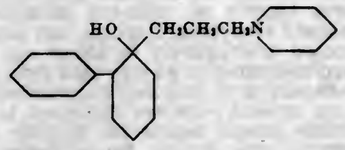
4. Process for the direct halogen-substitution of steroids and their dehalogenation products, which comprises treating a Δ^{23} - 24,24 - diarylcholene with bromine, while exposing the reactants to the action of strong light and treating the so-formed Δ^{23} - 22 - bromo - 24,24 - diarylcholene with a dehydrohalogenating agent.

2,590,638
2-CYCLOHEXYL AND 2-CYCLOHEXYLIDENE-1-(3'-PIPERIDINO - PROPYL)-CYCLOHEXANOLS
Karl Miescher, Riehen, and Adrian Marxer, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.
No Drawing. Application December 27, 1950, Serial No. 203,022. In Switzerland February 1, 1950
1 Claim. (Cl. 260—294.7)

A member selected from the group consisting of 2 - cyclohexylidene -1- (3'-piperidino-propyl) - cyclohexanol of the formula



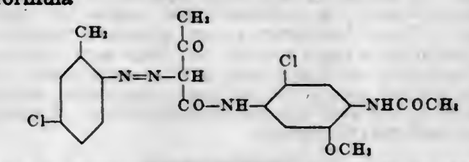
and 2 - cyclohexyl - 1 - (3' - piperidino - propyl) - cyclohexanol of the formula



and the salts of said hexanols.

2,590,639
AZO DYESTUFF
Eduard Moser, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application November 29, 1949, Serial No. 130,075. In Switzerland December 7, 1948
1 Claim. (Cl. 260—193)

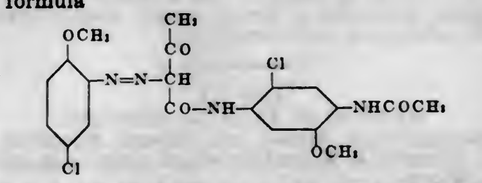
The new dyestuff which corresponds to the formula



and is distinguished by good properties of fastness especially by a very good fastness to light, and by a valuable yellow tint which is neither reddish nor greenish.

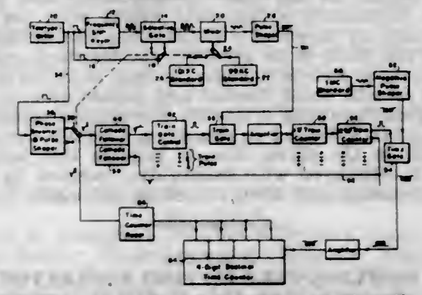
2,590,640
AZO DYESTUFF
Eduard Moser, Basel, Switzerland, assignor to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application November 29, 1949, Serial No. 130,076. In Switzerland December 7, 1948
1 Claim. (Cl. 260—193)

The new dyestuff whch corresponds to the formula



and is distinguished by good properties of fastness, especially by a very good fastness to light, and by a valuable yellow tint which is neither reddish nor greenish.

2,590,641
FREQUENCY SHIFT MONITOR
Henry A. Musk, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 28, 1949, Serial No. 95,962
7 Claims. (Cl. 178—69)



1. A frequency monitor for measuring the instantaneous deviation of a carrier frequency to either side of a nominal value in accordance with signal impulses, comprising a pair of fixed frequency reference oscillators, means for selecting a portion of said carrier deviated to one side of

said nominal value, means for mixing said portion with the output of a selected one of said reference oscillators to produce a beat frequency corresponding to the magnitude of said deviation, a gating amplifier for amplifying said beat frequency, means controlled from said signal impulses for rendering said gating amplifier conductive only during the existence of a signal impulse, counter circuits controlled by said gating amplifier for rendering the latter non-conductive after completion of a predetermined number of cycles of said beat frequency, a fixed standard frequency oscillator, a cycle counter fed from said standard frequency oscillator, and circuit connections for rendering said cycle counter inoperative except during the said predetermined number of cycles of said beat frequency.

2,590,642

SOLUTIONS OF POLYAMIDES IN SOLVENT MIXTURES

James Burton Nichols, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 16, 1948, Serial No. 65,720

10 Claims. (Cl. 260—33.4)

8. A solution, of improved fluidity, of a synthetic linear alpha-amino acid polyamide, of degree of polymerization of at least 25, in a solvent, liquid between 25 and 300° C. and of energy density less than 95, containing, dissolved therein, 0.5 to 25%, by weight of the solution, of an organic compound of energy density greater than 95 calories per cubic centimeter.

2,590,643

METHOD OF TEXTILE PRINTING

Erling Owren, Foster, and Edward Karolczuk, Coventry, R. I.; said Karolczuk assignor to said Owren

Application December 9, 1949, Serial No. 132,078

5 Claims. (Cl. 101—129)



1. The method of textile printing which comprises providing a flat surface, positioning on said surface a back-greige comprising a woven, porous, absorbent and adsorbent fabric, treating the work-contacting surface of the back-greige with a dye repellent solution in a quantity sufficient to deposit on the fibers of said fabric and leave the interstices of the said fabric open for receiving an excess of a penetrating dye, positioning the cloth to be printed over the back-greige, placing a stencil pattern on said cloth to block out certain areas thereof and expose other areas thereof, applying a dye on the exposed areas in amounts sufficient to penetrate through the said cloth to the other side to provide the pattern to be displayed with excess dye received by the back-greige and then removing the cloth.

2,590,644

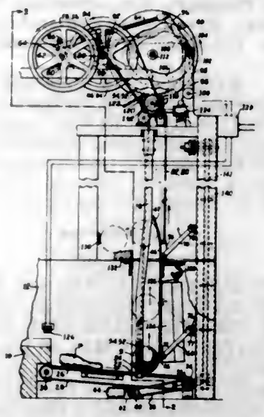
BOWLING BALL LIFTING APPARATUS

Morehead Patterson, New York, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey

Application January 8, 1948, Serial No. 1,186

19 Claims. (Cl. 273—49)

12. Apparatus for use with a bowling alley comprising a stuffed flexible faced bumper positioned across the pit of a bowling alley, a member having a flat non-yielding surface, mechanism for moving said member in front of said bumper after a bowling ball is thrown, a bowling ball lifting bar spaced from said member



and a device for moving said bar upwardly to elevate a ball upwardly between said member and said bar, a ball return runway positioned adjacent the upper limit of travel of said bar, and means for moving a ball from said bar onto said ball return runway.

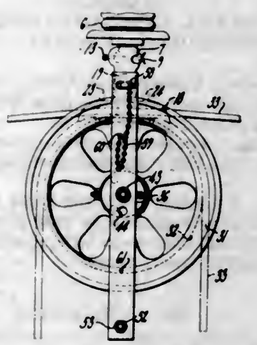
2,590,645

TRAVELER

Gerald A. Petersen, San Francisco, Calif.

Application June 2, 1950, Serial No. 165,611

1 Claim. (Cl. 254—194)



A traveler comprising a pulley having a peripheral wire-engaging groove and a central hub, an axle extending through said hub and having projected ends, a pair of frame straps, each of said frame straps having a pair of inboard apertures therein for alternatively receiving said axle and having a pair of outboard apertures therein at different distances from said inboard apertures, a spacer bolt adapted to be disposed alternatively in either one of said outboard apertures to engage said frame straps, a pin adapted to be disposed alternatively in the other one of said outboard apertures to engage said frame straps, means for flexibly securing said pin to one of said frame straps, and a washer for frictionally retaining said pin in engagement with said frame straps.

2,590,646

COCOA PROCESSING AND PRODUCTS

Elmer K. Pettibone, San Francisco, Calif.

No Drawing. Application November 25, 1949, Serial No. 129,502

12 Claims. (Cl. 99—23)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method of improving a cacao product by mellowing, accentuation and enrichment of cacao flavor comprising mixing with cacao bean material a plastic mass of vegetable protein hydrolysates concentrated to a solids content of from substantially 80 per cent to 94 per cent, milling the mixture to reduce the beans to granular size, powdering the granular mix, expressing cacao fat therefrom and drying the compounded powder.

2,590,647

SOYBEAN POWDER BASES AND PRODUCTS

Elmer K. Pettibone, San Francisco, Calif.

No Drawing. Application November 25, 1949, Serial No. 129,504

17 Claims. (Cl. 99—2)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A ready to mix powder base foodstuff containing soya modified by hydrolyzed vegetable protein and cocoa, said foodstuff being characterized by a cocoa flavor substantially devoid of palatably objectionable soya flavor.

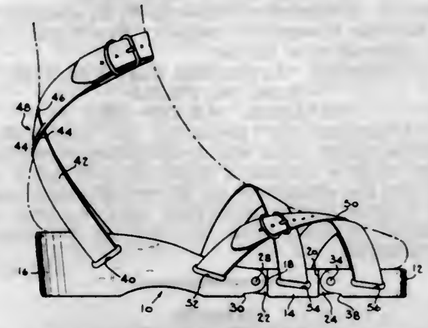
2,590,648

SLOTTED SOLE SANDAL

Carl A. Pitz, New Holstein, Wis., assignor, by mesne assignments, to A. L. Langenfeld, Inc., New Holstein, Wis., a corporation of Wisconsin

Application January 12, 1949, Serial No. 70,441

2 Claims. (Cl. 36—11.5)



1. A sandal having a sole having toe and ball portions the upper and lower faces of which are generally parallel, a plurality of transverse forwardly and downwardly inclined slots through said sole in the toe and ball portions thereof, and a strap passing through said slots and diagonally over the foot, the inclination of said slots serving to twist the strap to lie flat against the foot.

2,590,649

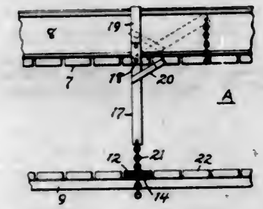
BALE EJECTOR

Carl Reichert, Fort Wayne, Ind.

Application April 18, 1949, Serial No. 88,145

4 Claims. (Cl. 100—16)

1. A bale ejector attachable to a baling machine, consisting of co-operatively associated parts in which are included a hollow beam hinged at one end to a platen of said machine and open at its opposite end, a hitch-plate slidably disposed in said beam and having contiguous wide and narrow slotted portions, an operating bar pivoted on said machine, and a chain attached to the distal end of the operating bar and having locking engagement with the hitch-plate through the slot therein when positioned in said hollow beam, whereby the beam is tilted to eject a bale from the machine as the platen thereof is lowered.



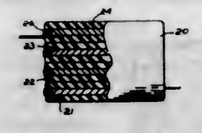
2,590,650

ELECTRICAL CONDENSER

Preston Robinson, Williamstown, Mass., and Colin C. Reid, Falls Church, Va., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts

Application August 1, 1951, Serial No. 239,646

5 Claims. (Cl. 175—41)



1. An electrical condenser comprising two convolutely wound, metal, electrode foils, at least one of said electrode foils being insulated on the flat surfaces thereof with a coating of polytetrafluoroethylene and at the edges and corners thereof with an adherent in situ formed layer of the phthalocyanine of the metal of said foil, said layer being not greater than .0005" in thickness.

2. A process of preparaing an electrical condenser which comprises assembling a condenser section of metal electrode foils, at least one half of which bear a dielectric coating upon their flat surfaces, and then exposing said section to the vapors of a compound selected from the group consisting of phthalimide, ortho-cyano-benzonitriles and substituted derivatives thereof, at temperatures between about 200 and 500° C., until an adherent layer of the phthalocyanine of the metal composing said foils has been built up to a thickness of up to about .0005" at the exposed, uninsulated, metal surfaces of said foils.

2,590,651

AFTER-CHLORINATION OF POLYVINYL CHLORIDE

David S. Rosenberg, Niagara Falls, N. Y., assignor to Hooker Electrochemical Company, Niagara Falls, N. Y., a corporation of New York

Application June 6, 1949, Serial No. 97,266

13 Claims. (Cl. 204—163)

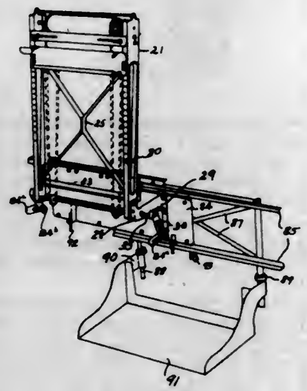
7. A process for the after-chlorination of polyvinyl chloride, which includes: contacting chlorine gas and water-vapor so as to introduce between 0.1 percent and that amount of water-vapor which the chlorine gas will carry at a tem-

perature 20 centrigrade degrees below the temperature employed in the reaction zone; contacting such water-vapor-carrying chlorine gas, in the presence of actinic radiation and at a reaction zone temperature between 50 and 150 degrees



centigrade, with comminuted polyvinyl chloride in the form of a dry powder of less than one millimeter of particle size; and, withdrawing water-vapor from the reaction zone at substantially the rate it is introduced.

2,590,652
SPEED FEED MANIFOLDING ATTACHMENT FOR TYPEWRITERS
Herman F. Sadgebury and Robert N. Ward, Dayton, Ohio, assignors to The Egry Register Company, Dayton, Ohio, a corporation of Ohio
Application June 29, 1948, Serial No. 35,794
3 Claims. (Cl. 197—126)



1. The combination with a manifolding frame for a typewriting machine of a base comprising an apron arranged to receive said machine and be maintained in position thereby and a pair of post receiving bushings, a movable carriage provided with post members arranged to be positioned in said post receiving bushings in selective elevational arrangement whereby to mount said carriage on said base, said carriage being provided with roller means for movement thereof from side to side, means extending from said frame mounting said frame on said carriage in tiltable arrangement, extensible shaft means in association with said mounting means, and means extending from said frame arranged to contact a non-operative reciprocating member of said machine whereby to cause movement of said frame from side to side in unison with the normal reciprocating movement of said member, said last mentioned means comprising a pair of 2-piece extensible arm means mounted at both ends of said extensible shaft means.

2,590,653
TALL OIL MODIFIED ALKYD RESINS AND PROCESS FOR PREPARING THE SAME
Alfred F. Schmutzler, Teaneck, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 16, 1949, Serial No. 88,044
24 Claims. (Cl. 260—22)

13. A resin prepared by heat reacting 1%–25% by weight of monomeric acrylonitrile and 2%–34% by weight of monomeric styrene with a tall-oil modified alkyd resin wherein the total amount of said monomers present varies between 5%–35% by weight based on the total weight of said resin.

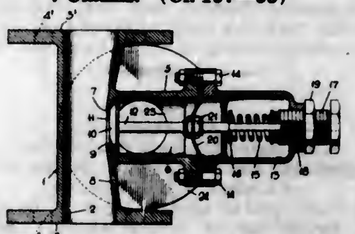
2,590,654
PRINTING INKS FROM TALL OIL MODIFIED ALKYD RESINS
Alfred F. Schmutzler, Teaneck, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application April 16, 1949, Serial No. 88,045
9 Claims. (Cl. 260—22)

1. A printing ink comprising a vehicle which comprises the heat reaction product of monomeric styrene and monomeric acrylonitrile, with a tall oil-modified alkyd resin, wherein the total monomers present is within the range of 5%–35% by weight and wherein the total amount of monomeric styrene is 2%–34% and the total amount of monomeric acrylonitrile is 1–25% by weight based on the total weight of said resin dissolved in a high-boiling petroleum hydrocarbon of low kauri-butanol value, and pigment.

2,590,655
MODIFIED TALL OIL ESTERS AND PROCESS OF PREPARING THE SAME
Alfred F. Schmutzler, Teaneck, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 15, 1950, Serial No. 179,633
15 Claims. (Cl. 260—23)

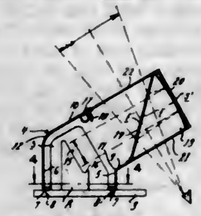
1. A process for preparing an acrylonitrile modified talloil ester which comprises esterifying talloil with a saturated aliphatic polyhydric alcohol in the absence of an appreciable amount of any polycarboxylic acid and heat-reacting the resulting product with 4%–28% of monomeric acrylonitrile.

2,590,656
SAFETY VALVE
Verne H. Schnebel, Clark Township, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
Application January 22, 1949, Serial No. 72,178
7 Claims. (Cl. 137—53)



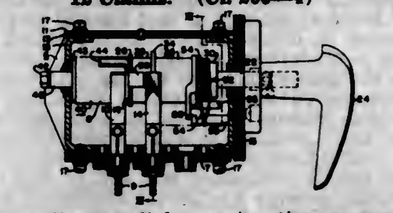
1. A safety valve unit of the class described for mounting in a fluid feed line, said unit having a relatively thin walled and essentially tubular body forming a fluid passage therethrough adapted to form an integral part of said feed line, one side wall of said passage being cut out to form a valve aperture centrally thereof and walls of said passage adjacent said aperture being tapered inwardly so that the peripheral edges of said valve aperture fall in a common plane, means on said valve unit for supporting a pressure responsive valve in engagement with said valve aperture, and the outer periphery of said valve aperture and said valve being fashioned to permit seating of the valve so that the face thereof is substantially flush with inner surfaces of said fluid passage.

2,590,657
BEDSIDE READING DEVICE
Carl F. Shepard, Chicago, Ill.
Application February 11, 1949, Serial No. 75,813
1 Claim. (Cl. 88—74)



A bedside reading device for reading while lying in bed comprising a housing having lower and upper sections, said upper section extending at an angle from the lower section and being elevated to be positioned above the head of a person lying in bed and having a viewing aperture through the lower side thereof in the line of sight of the person, a concave mirror mounted across the outer end of the upper section of the housing, supporting means angularly provided interiorly of the lower section for supporting reading material substantially parallel with the mirror, a source of light in the interior of the housing directed upon reading material as thus supported, and a semitransparent sheet mounted across and within the upper section of said housing with its upper edge adjacent to the upper part of the mirror and the body of the sheet disposed diagonally over the viewing aperture and between the mirror and the supporting means, said semitransparent sheet having a low reflective coating on its upper face and the under face being semi-reflecting.

2,590,658
ROTARY ELECTRIC SWITCH
Paul Silvius, Murrysville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 6, 1949, Serial No. 85,839
12 Claims. (Cl. 200—4)



1. A unitary switch construction comprising a support having two pairs of spaced-apart contact elements mounted thereon, a switching member mounted on said support for longitudinal adjustment between a first and a second position and for rotatable movement in opposite directions from at least the neutral position at said first position of longitudinal adjustment, contact means having a plurality of contact portions carried by said switching member, two of said contact portions being angularly spaced on said switching member at positions to engage the elements of one pair of contact elements upon rotation of said switching member in opposite directions, respectively, from the neutral position at said first position of longitudinal adjustment, two others of said contact portions being located on said switching member at positions to engage the elements of the other pair of contact elements when said switching member is longitudinally adjusted to the neutral position at said second position of longitudinal adjustment, and one of said other contact portions being larger in angular and axial extent to engage its contact element at all four positions of said switching member, for selectively connecting either element of said one pair of contact elements with one element of the other pair of contact elements as the switching member is rotated in opposite directions from the neutral position in said first position of longitudinal adjustment, and for completing another circuit between the elements of said other pair of contact elements when the switching member is longitudinally adjusted to the neutral position in said second position of adjustment.

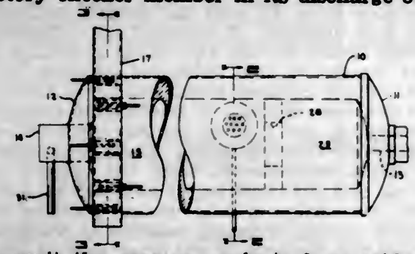
2,590,659
COMPOSITIONS AND METHODS FOR PROCESSING TEXTILE FIBERS
Basil G. Skalkeas, Lowell, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 24, 1949, Serial No. 101,263
9 Claims. (Cl. 252—8.6)

1. A composition for application to cellulosic textile fibers prior to carding comprising a stable mixture of an alkaline reacting silica aquasol containing from 5 to 45% by weight of colloidal silica, from 15 to 75% by weight, based on the weight of silica in the aquasol, of a substance selected from the group consisting of water-soluble and water-emulsifiable oil lubricants, and from 15 to 75% by weight, based on the weight of silica in the aquasol, of an organic hygroscopic agent.

2,590,660
APPARATUS FOR THE MANUFACTURE OF CARBON BLACK
Robert W. Skoog, Borger, Tex., and Isaac Dregin, Charleston, W. Va., assignors to United Carbon Company, Inc. (Maryland), Charleston, W. Va., a corporation of Maryland
Application March 2, 1949, Serial No. 79,128
7 Claims. (Cl. 23—259.5)

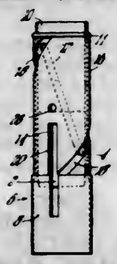
1. A furnace for producing carbon black from hydrocarbons comprising a cylindrical refractory-lined reaction chamber having a flue outlet at one end and an axially disposed hydrocarbon inlet at the other end, a plurality of air inlet ducts located at said other end and concentrically disposed with respect to said hydrocarbon inlet, an annulus normal to the axis and intermediate the ends of the reaction chamber forming a mixing orifice, and an auxiliary chamber formed in the side wall of said reaction chamber and having a discharge outlet communicating with the interior of the latter intermediate the inlet end and the annulus of said reaction

chamber, said auxiliary chamber having a refractory checker member in its discharge outlet



to permit the gaseous products from said auxiliary chamber to be discharged tangentially into the reaction chamber of the furnace.

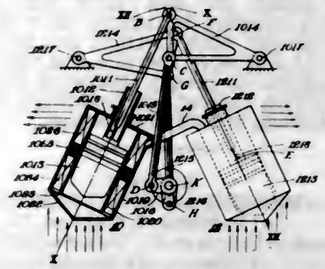
2,590,661
DISPENSER AND APPLICATOR
William G. Thompson, Clinton, Mass.
Application December 29, 1949, Serial No. 135,634
4 Claims. (Cl. 206—56)



1. A contractable-extensible device for dispensing lip rouge or the like comprising in combination, an inner elongated tubular actuator and a rouge propeller reciprocable therein between outer upper and inner lower positions, a cam member rotatable around said inner actuator, said cam member and inner actuator provided with longitudinally extending angularly related cam slots and said propeller provided with a cam follower in said slots whereby as said cam member and inner actuator are relatively rotated in opposite directions said propeller is reciprocated in opposite directions between inner and outer positions, a tubular outer actuator barrel reciprocable relatively to said inner actuator and cam member between inner contracted and outer extended positions, and interengageable locking means provided on said inner actuator, cam member and outer actuator barrel permitting reciprocation of said outer actuator barrel and positionable in the upper contracted position of the outer actuator barrel to lock said inner actuator and cam member against relative rotation, said locking means including registrable elongated locking slots provided in said cam member and inner actuator in which a projection provided on said outer actuator barrel is slidable.

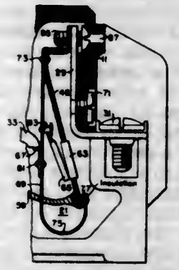
2,590,662
CRANKSHAFT ARRANGEMENT IN A MULTI-CYLINDER V-TYPE PISTON MACHINE
Franciscus Lambertus van Weenen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 22, 1948, Serial No. 3,715
In the Netherlands February 14, 1947
6 Claims. (Cl. 60—24)

1. In a double-acting multi-cylinder piston machine having the center lines of the cylinders thereof located in two planes which intersect to form a V, each of said cylinders having top and bottom closure members and a piston therein; a crankshaft positioned parallel to the line of intersection of said two planes and located within the region defined between the arms of said V at a distance from said line of intersection which is from 0.5 to 2.0 times the distance between said



line of intersection and the point of intersection of one of said center lines with the inner portion of the corresponding one of said closure members most remote from said line of intersection, and a plurality of separate means each coupling one of said pistons to said crankshaft, each of said separate means comprising a piston rod and a connecting rod in acutely angled relationship to each other.

2,590,663
CIRCUIT BREAKER
Eugene J. Walker, Beaver, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 3, 1950, Serial No. 142,105
6 Claims. (Cl. 200—88)



1. A circuit breaker comprising relatively movable contact means and means releasable to effect opening of said contact means, a trip device for effecting release of said releasable means comprising a bimetal element supported at one end and having the other end free, a resilient element having one end rigidly supported adjacent the supported end of said bimetal element, said resilient element having a portion on one side of said bimetal element extending at an angle thereto, connecting means connecting said elements so that thermal bending of said bimetal element in response to overload currents of certain value below a predetermined value causes bending of said resilient element to release said releasable means, electroresponsive means comprising a first magnetic member mounted on said bimetal element, and a second magnetic member mounted on said resilient element, a stud on said resilient element loosely supporting one end of said second magnetic member for limited movement relative to said resilient element, said second magnetic member moving freely relative to said resilient element when said electroresponsive means is energized by overload currents of certain other value

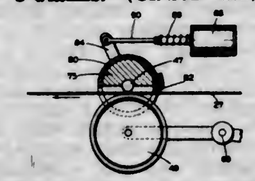
below said predetermined value to reduce the magnetic air gap and increase the pull of said second magnetic member on said resilient element, and said electroresponsive means when energized by overload currents above said predetermined value bending said resilient element to cause instantaneous release of said releasable means.

2,590,664
SEAT COVER
Walter L. Weaklend, Platte City, Mo., assignor to Rockledge Manufacturing Company, a corporation of Missouri
Application June 23, 1948, Serial No. 34,624
9 Claims. (Cl. 155—182)



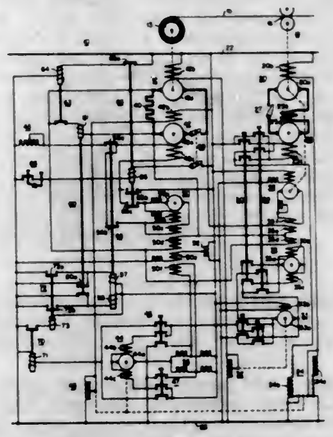
1. In combination with a seat, a cover of flexible material over the seat, said cover conforming in outline with the outline of the seat and having its margin depending around the sides of the seat, a stretched elastic element connected to the margin of the cover so it tends to reduce the perimeter thereof, thereby to draw the cover tightly around the sides of the seat, and an arched member under the cover extending from one side of the seat to the other to hold the central portion of cover elevated above the central portion of the seat.

2,590,665
STOPPING DEVICE FOR TAPE IN MAGNETIC RECORDERS
Alfred L. W. Williams, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application March 24, 1950, Serial No. 151,595
8 Claims. (Cl. 271—2.4)



1. In a magnetic record device wherein the record member comprises a flexible ribbon, a stopping and starting arrangement comprising: a driven cylindrical capstan; a resiliently biased pressure element for pressing said record member against said capstan to drive said record member during a transducing operation; a rotatable element which is a circumferential portion of a cylinder around said capstan movable to two positions which, in the first of said two positions, permits said record member to be pressed against said capstan by said pressure element during said transducing operation and which, in the second position thereof, causes a portion of said circumferential cylinder portion first to press the record member against said pressure element and thereafter to reduce the pressure of said pressure element against said capstan and stop said record member; and means for selectively moving said rotatable element to either of said two positions.

2,590,666
REEL CONTROL SYSTEM
Amos J. Winchester, Jr., Pittsburgh, Pa., and William D. King, Buffalo, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 26, 1949, Serial No. 89,684
9 Claims. (Cl. 242—75)

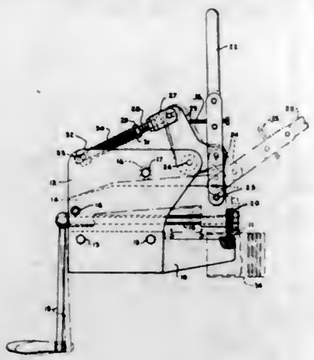


2. In a control system for a reel motor having an armature, a generator having excitation means and an armature connected to supply electrical energy to the armature of the reel motor, a regulating generator responsive to the load on the motor, relay means normally dispoed to connect the generator excitation means to a source of electrical energy, said relay means being operable to connect the generator excitation means to the regulating generator in response to a predetermined load on the reel motor, starting means operable to initiate operation of the reel motor, and time delay means operable to prevent operation of the relay means for a predetermined time after operation of the starting means.

2,590,667
KNURLING MACHINE
Joseph J. Wittman, Detroit, Mich.
Application October 26, 1948, Serial No. 56,529
2 Claims. (Cl. 80—5.1)

1. In a knurling machine, the combination of two complemental side plates; a fixed anvil disposed at the bottom of said side plates and extending forwardly therefrom; a roller rotatably and detachably secured adjacent the forward end of said fixed anvil; a movable arm pivotally attached to said side plates above said anvil and extending forwardly from said side plates; a shaft journaled in said movable arm; a roller detachably attached to the said shaft at the forward end and above the first-mentioned roller, a crank affixed to the other end of said shaft; means for locking the cylindrical object between said rollers and resiliently holding said object in place under adjustable spring tension, said means forming an adjustable safety device which will trip when a predetermined load is exceeded on said rollers and including a locking lever pivotally secured to the forward portion of said movable arm, links pivotally connected at one end to said locking lever and at the other end to one leg of a bell crank which is pivotally attached to said side plates, a clevis pivotally attached to the other leg

of said bell crank, a bolt screw-threaded to said clevis at one end and extending through a pivotal spring seat at the other end, a nut screwed onto said bolt between said clevis and said spring seat, a spring interposed between said nut and said



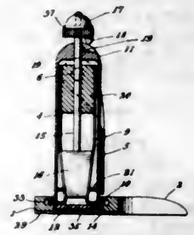
spring seat, and surrounding said bolt, and an adjusting screw extending through said locking lever and abutting said bell crank when the locking lever is in the operative position, said adjusting screw determining the position of the locking lever in the operative position.

2,590,668
CASTOR OIL-UNSATURATED DICARBOXYLIC ACID COPOLYMER RESINS
Frederick A. Yeoman, Turtle Creek, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application May 13, 1947, Serial No. 747,850
5 Claims. (Cl. 260—22)

1. A composition comprising a solvent composed of 100 parts by weight of a polymerizable liquid monomer having a $H_2C{=}C<$ group and a solute comprising from 5 to 300 parts by weight of the ungelled, low acid number complex ester reaction product of (A) an acidic castor oil-alpha beta unsaturated dicarboxylic acid half ester having an average of at least two free carboxyl groups per half ester molecule, (the acid half ester having been prepared by reacting one mole of castor oil with between two and three moles of an unsaturated alpha, beta acidic compound selected from the group consisting of fumaric acid, maleic acid, maleic anhydride, monochlormaleic anhydride and citraconic anhydride, and (B) one equivalent based on the carboxyl groups of the half ester of at least one compound of the group consisting of alkylene oxides and glycols, the last-mentioned compound having no other reactive group than the oxide group or the alcohol groups, respectively, and an ethylenic group.

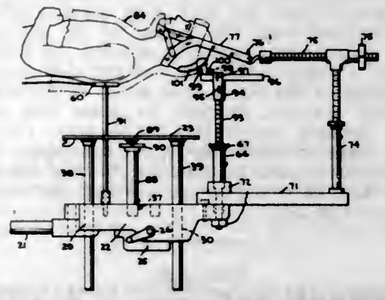
2,590,669
HAIR CURLER
Alexis Zachary, New York, N. Y.
Application August 10, 1948, Serial No. 43,491
5 Claims. (Cl. 132—33)

1. A hair curler comprising a flat base, a hollow post projecting perpendicularly beyond one face of said base, a clamping arm pivotally united to said post and means carried within said post and base for securing the post rigidly to the base, or rotatably coupling said parts together, said means comprising a resilient mov-



able catch and parts for projecting the catch from the post at its junction with said base.

2,590,670
INTERSCAPULAR PATIENT SUPPORTING DEVICE FOR APPLICATION OF AN ORTHOPEDIC BRACE
Roger Anderson, Seattle, Wash.
Application July 26, 1949, Serial No. 106,954
2 Claims. (Cl. 128—71)



1. A device for supporting a patient for application of an orthopedic cast comprising a vertically disposed supporting shaft; a relatively thin, flat, inter-scapular plate detachably connected with said supporting shaft for alinement with the spinal column of a patient at the shoulder blade level and between the shoulder blades; and a flexible retrieving member secured to said detachable inter-scapular plate and of a length to extend out of the cast, whereby an orthopedic cast may be applied to a patient about said detachable inter-scapular plate and said flexible retrieving means, relative motion may be applied between said detachable inter-scapular plate and said vertical shaft, and said detachable inter-scapular plate may be subsequently removed from within the orthopedic cast by a pull exerted on said retrieving member.

2,590,671
EXPLOSIVE CARTRIDGE ASSEMBLY
Arthur W. Baker, Webster Groves, Mo., assignor to Illinois Powder Manufacturing Company, St. Louis, Mo., a corporation of Illinois
Application June 19, 1948, Serial No. 34,018
3 Claims. (Cl. 102—24)

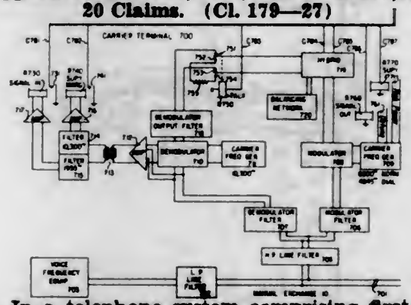
1. An explosive cartridge assembly comprising a plurality of identical cartridges disposed in end to end relation, each of said cartridges comprising a paperboard casing that tapers uniformly from end to end thereof and has a correspondingly tapered socket in its large end and a flush small end fitting into the large socket end of an adjacent cartridge, and separate means located between and in engagement with the opposing

faces of said engaged correspondingly tapered socket and flush small cartridge ends for preventing endwise separation thereof, said means comprising a substantially U-shaped strip extending



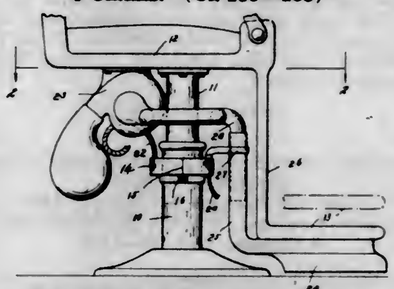
between the opposing side and end faces of said socket and the cartridge end therein and having a plurality of prongs embedded in said opposing side faces of said socket and the cartridge end therein.

2,590,672
CARRIER SYSTEM HAVING VARIABLE POWER LEVEL FOR SUPERVISORY SIGNALING
Pier Bakker, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 29, 1950, Serial No. 171,167
20 Claims. (Cl. 179—27)



1. In a telephone system comprising first and second exchanges and a carrier frequency signal circuit, said first exchange including an operator switchboard and a first carrier current terminal coupled to said signal circuit, said second exchange including a plurality of subscriber substations and automatic switching apparatus and a second carrier current terminal coupled to said signal circuit, means controllable from said operator switchboard for completing a connection therefrom to said first terminal, means included in said first terminal and responsive to the completion of said last-mentioned connection for transmitting a first carrier frequency signal over said signal circuit, means included in said second terminal and responsive to said first carrier frequency signal for completing a connection therefrom to said switching apparatus and for transmitting a second carrier frequency signal at high power over said signal circuit, means included in said first terminal and responsive to said second carrier frequency signal at high power for returning a ready signal to said operator switchboard, means controllable from said operator switchboard for transmitting one or more digits therefrom to said first terminal, means included in said first terminal and responsive to said one or more digits for interrupting in accordance therewith said first carrier frequency signal transmitted over said signal circuit, means included in said second terminal and responsive to said interruptions of said first carrier frequency signal for repeating a corresponding digit or digits to said switching apparatus, said switching apparatus being operative in response to said digit or digits to select a corresponding called one of said subscriber substations in order to extend a call thereto, means included in said second terminal and responsive to answering of the call at said one subscriber substation for changing from high power to low power said second carrier frequency signal transmitted over said signal circuit, and means included in said first terminal and responsive to said second carrier frequency signal at low power for returning an answer signal to said operator switchboard.

2,590,673
VACUUM CLEANER FOR BARBER CHAIRS
Charles E. Bezanson, Malden, Mass.
Application March 8, 1948, Serial No. 13,626
3 Claims. (Cl. 155—188)

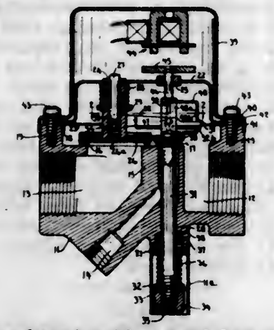


1. In a barber chair, a stationary base pedestal having a post vertically and rotatably adjustable in the base pedestal, a chair solidly supported at the upper end of the post, in combination with vacuum sweeper means secured to the under side of the chair, electrical conductor means for connecting the vacuum sweeper to a source of power, a suction inlet member constituting of a throat piece responsive to the vacuum sweeper to draw material therein, said throat piece being supported in a position of fixed vertical spacing relative to the bottom of the pedestal, and telescoping tubular connections located between the vacuum sweeper and the throat piece to provide for maintaining the latter member in its said fixed relationship to the bottom of the pedestal when the vacuum sweeper and chair are raised and lowered into various positions of adjustment in the said pedestal.

2,590,674
VALVE
Charles E. Bodey, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 24, 1948, Serial No. 61,868
13 Claims. (Cl. 137—139)

6. In a valve, the combination comprising a valve body having two valve seats, a first valve biased toward one of said seats, a second valve biased toward said second seat, an armature, an electromagnet capable of holding but not attracting said armature, a lever pivoted to said first valve and to said armature cooperating therewith, a yoke member connected to said sec-

ond valve and having a first lost motion connection with said armature and a second lost motion connection with said lever, and a manual actuator connected to said second valve, said first lost motion connection being operable to lift said armature into engagement with said electromagnet and said lever almost into engagement



with said yoke at said second lost motion connection and said second lost motion connection being operable to pivot said lever about its pivotal connection with said armature to open said first valve and partially return said second valve toward its seat under the bias of said second valve when said armature is being held by said electromagnet.

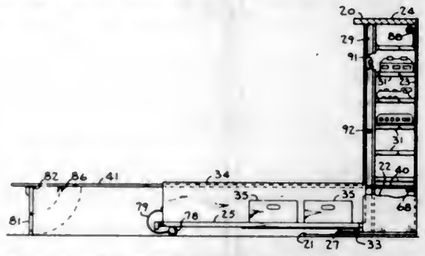
2,590,675
GEAR POWER TAKE-OFF DRIVE FOR HAMMER MILLS
Albert H. Bottorff, St. Joseph, Mo.
Application January 7, 1950, Serial No. 137,385
6 Claims. (Cl. 74—15.6)



1. The combination with a hammer mill having a housing, a rotor therein and a rotor shaft extending through said housing, of a unit adapted to be attached to the side of said housing, said unit comprising a frame member secured to said side of said housing, a second housing secured to said frame member, said second housing being provided with a chamber therein, said rotor shaft being rotatably received in said frame member and in said second housing, a pinion mounted on said rotor shaft in said second housing, a face gear in driving connection with said pinion in said chamber, and a shaft for said face gear.

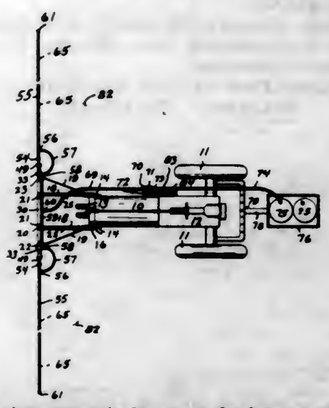
2,590,676
CABINETED TOY RAILROAD
Neil C. H. Bradley, Milwaukee, Wis.
Application July 30, 1947, Serial No. 764,795
1 Claim. (Cl. 238—10)

A toy railroad for mounting in a cabinet having a base, side walls, and front wall hingedly mounted on the base and movable from an upright cabinet position to a lowered position, the combination with the front wall of said cabinet, of inwardly extending side walls fixed to said front wall and provided with spaced guideways and interconnecting guideways, panels slidably mounted in said spaced guideways which are vertically spaced from each other in the lowered position of said front wall, said panels being movable relative to each other along said guideways and the lower panel being movable along said interconnecting guideways to bring the lower of said panels in alined relation with the upper of said panels in the lowered position of said front



wall, railroad tracks mounted on said panels and having telescopic conductor portions which when said panels are in alined abutting relation telescope each other, and means for locking said panels in alined position in which the tracks form a continuous track.

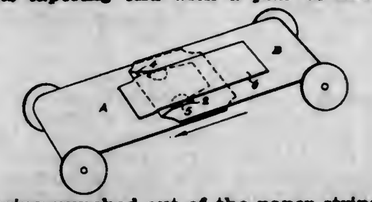
2,590,677
TRACTOR MOUNTED SPRAY DEVICE
Roy F. Broyhill, Dakota City, Nebr.
Application June 28, 1948, Serial No. 35,715
1 Claim. (Cl. 299—45)



A tractor mounted spray device comprising a framework attached to the forward end of the tractor, laterally extending spraying pipe members, joints between said framework and said spraying pipe members, said joints including ears extending from said framework, square members positioned between said ears and pivoted thereto, springs attached to the inner end of said square members, said ears including extending portions to which said springs are attached, said square members including further extending ears, said spraying pipe members including extending portions received between said further extending ears and pivotally secured thereto, said further extending ears being positioned at right angles to said ears.

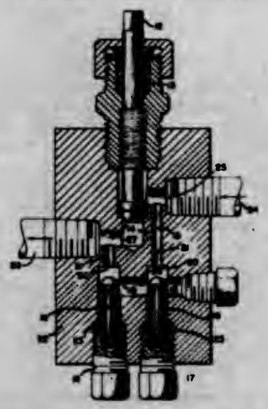
2,590,678
PHOTOGRAPHIC ROLL FILM
Louis Caim, Jerusalem, Palestine
Application March 4, 1949, Serial No. 79,529
2 Claims. (Cl. 95—9)

1. A roll film comprising a multiple number of covering paper strips, the same number of light sensitive film strips, shorter than the paper strips being stuck to the paper strips in the conventional manner, all strips being arranged in a consecutive order to form a camera film, tongues at the outer ends of the two extreme paper strips for engagement with the slots in the film spools, a tapering end portion at one end of each intermediate paper strip and at the inner end of the last paper strip, each of said intermediate paper strips and said last paper strip being provided near its tapering end with a pair of slits, two
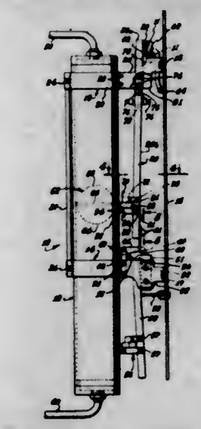


flaps being punched out of the paper strips near the end opposite the tapering end portions of the intermediate strips and near the inner end of the first paper strip for engagement with the slits near the ends of each consecutive strip, the tapering end portions being folded back over the flaps passed through the slits and bent into locking position, and strips of gummed paper stuck at one of their ends to the paper strips from which the flaps extend and being laid over the folded tapering end portions.

2,590,679
SAFETY VALVE
Oscar L. Callahan, West Frankfort, Ill.
Application October 10, 1946, Serial No. 702,503
2 Claims. (Cl. 137—153)



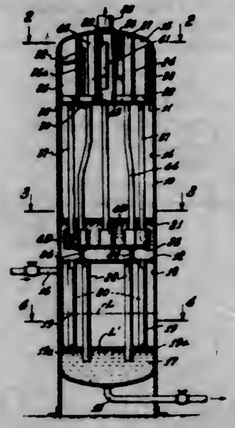
1. In combination, a conduit adapted to receive and conduct fluid under pressure, and mechanism included in said conduit for segregating accidental breaks at either side of said mechanism, said mechanism comprising a body member formed with an inlet and an outlet in communication with said conduit, said body member also being formed with a passage connected directly to said inlet, a second passage connected directly to said outlet and a bore connecting said passages, a valve in each of said passages, spring means operatively associated with each valve for normally biasing that valve to an open position, each of said valves being adapted to be moved into a closed position upon an excessive drop in pressure across said inlet and outlet, said body member being formed with a bypass connecting said inlet and outlet, and a manually operable valve adapted to close said bypass.

2,590,680
APPARATUS FOR LIQUID LEVEL CONTROLS
Julian A. Campbell, Long Beach, Calif.
Application February 28, 1949, Serial No. 78,717
7 Claims. (Cl. 172—284)



1. A liquid level control comprising walls forming a liquid container chamber, a control element mounted for movement between a pair of positions, means operable in response to a change in the liquid level in said chamber to actuate the control element from a first one of said positions to the second, a movable latch member operable to retain said element in said second position, and means operable in response to a change in the liquid level in the chamber to release said latch member and permit return of the element to said first position.

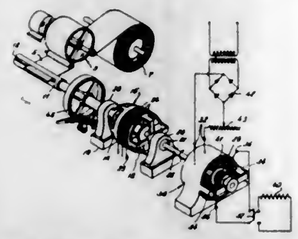
2,590,681
GAS SEPARATOR
Julian A. Campbell, Long Beach, Calif.
Application December 8, 1949, Serial No. 131,741
9 Claims. (Cl. 183—22)



1. A separator comprising a vertically extending shell, a transverse wall within and dividing the shell into a lower liquid-containing chamber and an upper separating chamber, a gas inlet discharging into said lower chamber and an outlet leading from said upper chamber, a baffle circularly spaced from the shell in said upper chamber to form a separating passage leading to said outlet, vanes forming circularly spaced entrainment catch pockets within and at the out-

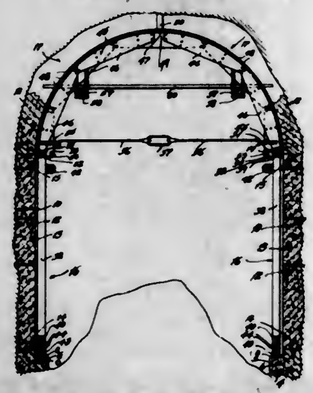
side of said passage, dams projecting upwardly from the floor between said vanes, and liquid drain tubes extending through the floor at locations between said dams into the lower chamber.

2,590,682
CORE TYPE WINDER DRIVE
George Cawley, Upper Montclair, and Howard M. Brown, Wood-Ridge, N. J.
Application June 3, 1949, Serial No. 97,014
11 Claims. (Cl. 242—75)



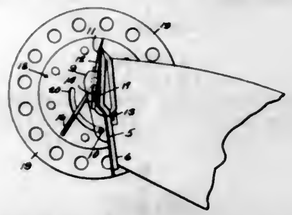
1. In a winding machine, a base, a mandrel mounted for rotation relative to the base for reception of the material to be wound, a substantially constant speed motor having a field member and an armature member, said motor members being mounted for rotation with respect to each other and with respect to the base, a generator having a field member and an armature member, one of the generator members being fixed relative to the base and the other generator member being mounted for rotation relative to the base, a linkage coupling one of the motor members with the mandrel, a linkage coupling the other motor member with the rotatable generator member, and a passive load electrically connected to the winding of the generator armature member.

2,590,683
TUNNEL LINING FORM
Ralph E. Clapp, Spokane, Wash.
Application February 21, 1949, Serial No. 77,533
1 Claim. (Cl. 25—131.5)



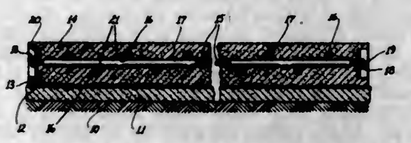
Apparatus for forming a lining for the arch of a tunnel comprising frames adapted to be mounted upright in confronting relation to lined walls of a tunnel, and a form adapted to be supported upon said frames and including bridges extending transversely of the form and spaced from each other longitudinally of the form and having depending ears at their ends overlapping upper portions of the frames, fasteners for detachably connecting the ears at ends of said bridges with upper portions of said frames, planking extending longitudinally of the forms and secured against outer edge faces of said bridges for supporting concrete in space between the form and the arch of the tunnel, U-shaped hangers depending from said bridges in upwardly and inwardly spaced relation to their ends, beams extending longitudinally of said form and passed downwardly through and thereby supported by said hangers, scaffold boards extending transversely of the form and having opposite ends resting upon and supported by said beams, brackets mounted horizontally in straddling relation to end portions of said bridges and having ends projecting horizontally therefrom inwardly of the form, and rods extending transversely across the form between ends of said bridges and having hooks at their ends engaged with the projecting ends of said brackets, and turnbuckles threaded upon inner ends of said rods for adjusting the rods longitudinally and holding their hooks in firm engagement with the brackets.

2,590,684
ATTACHMENT FOR HAIR CLIPPERS
Perley C. Clark, Denver, Colo.
Application May 28, 1951, Serial No. 228,702
5 Claims. (Cl. 30—202)



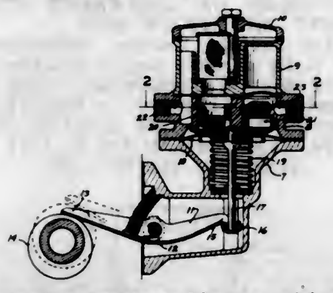
1. A motor driven hair clipper comprising cutting blades, a comb plate slidably mounted adjacent to the cutting blades, said comb plate having comb teeth cooperating with said cutting blades in regulating the length of hair cut, a shaft secured to said comb plate the ends of the shaft providing axles, wheels mounted on the axles, said wheels having arcuate-shaped openings, a rod secured to said clipper with the ends of the rod extending within the arcuate-shaped openings of the wheels whereby rotation of said wheels moves the comb plate rearwardly, exposing said cutter blades gradually varying the length of the hair cut, and spring means for returning said wheels to their original positions.

2,590,685
PRESTRESSED CONCRETE STRUCTURE
Leo Coff, New York, N. Y.
Application December 4, 1947, Serial No. 789,704
In Great Britain February 6, 1947
5 Claims. (Cl. 94—4)



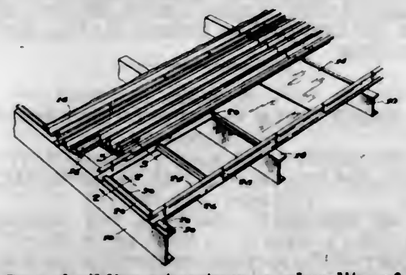
1. A concrete structure comprising a solid foundation having an even horizontal surface, a substantially unbroken concrete slab resting on said surface, said foundation being at least coextensive with said slab, anti-friction means substantially coextensive with said slab and interposed between said foundation and said slab, and prestressing means in said slab maintaining same under horizontal compression.

2,590,686
VALVE DEVICE
Irven E. Coffey, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application October 24, 1947, Serial No. 781,863
2 Claims. (Cl. 251—129)



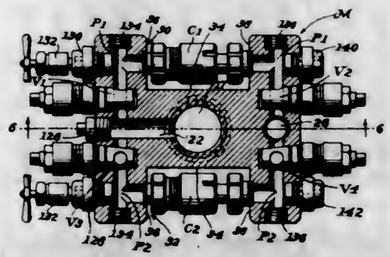
1. A check valve assembly comprising a flow operated check valve and a valve seat therefor, a helically coiled spring compressed against said valve for urging the same against said seat, and a depression in the face of said valve for receiving said spring, said depression forming an annular surface directly engaging the end coil of said spring and inclined to the spring axis for wedging adherence to said spring during opening of said valve by flow pressure against said spring whereby the torsional flexing of said spring is transmitted to said valve.

2,590,687
BUILDING STRUCTURE
Henry H. Crafton, Baden, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 23, 1948, Serial No. 34,669
5 Claims. (Cl. 189—34)



2. In a building structure, a plurality of load supporting members disposed in parallel and spaced relation, a plurality of preformed corrugated weather-proofing sheets disposed in side and end overlapping relation, a plurality of preformed insulating sheets disposed beneath the corrugated sheets and forming in effect a substantially continuous insulated layer below said sheets and a supporting framework supporting both said corrugated weather-proofing sheets and said insulating sheets, said framework comprising Z-shaped bars mounted upon and extending lengthwise of the load supporting members supporting ends of the insulating sheets on the lower flanges thereof, side supporting members mounted upon and extending in spaced relation at right angles to said load supporting members and upon which the sides of the insulating sheets are supported, said framework having additional members disposed above and thermally insulated from said side supporting members and upon which the corrugated sheets are supported.

2,590,688
WELL MANIFOLD
Robert L. Crain, Houston, Tex., assignor to Gray Tool Company, Houston, Tex., a corporation of Texas
Application November 14, 1946, Serial No. 709,812
16 Claims. (Cl. 166—15)

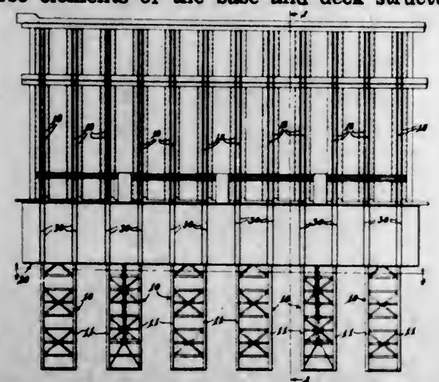


1. A unitary manifold for use in flowing wells comprising a housing having means for attaching same to the tubing head of a well, said housing having a lower central inlet for the well fluid and an outlet for the fluid, and a pair of independent flow passages extending through said housing between said inlet and said outlet, each of said passages having a pair of stop valves therein, one valve of a pair being positioned adjacent said inlet and the other of the pair being positioned adjacent said outlet, each of said passages being interrupted between its valves by a cut-out in said housing, each of said cut-outs being defined by spaced opposed walls having openings therein which constitute the continuations of said passages as interrupted by said cut-outs, and a unitary and removable choke assembly positioned to bridge each of said cut-outs and having a channel of flow therethrough adapted to align at each end with said openings, said channel including a restricted choke portion, said choke assembly having means whereby it may be expanded lengthwise to wedge the assembly between said walls and having means at each of its ends for simultaneously forming seals around said openings at the opposite ends of said channel of flow by its lengthwise expansion.

2,590,689
SIDE-HAUL RAILWAY DRY DOCK
James Stuart Crandall, Lexington, Mass., assignor to Crandall Dry Dock Engineers Inc., Cambridge, Mass., a corporation of Massachusetts
Application February 3, 1949, Serial No. 74,278
3 Claims. (Cl. 61—67)

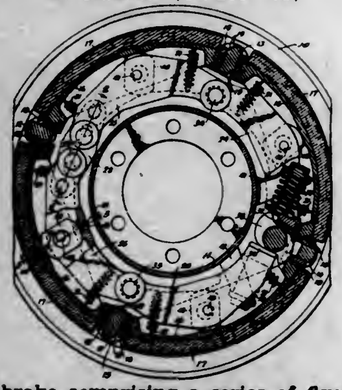
1. In a side-haul railway dry dock having a series of parallel inclined tracks leading from below the surface of a body of water to a location above the surface of the water, a long unitary cradle disposed across and supported by all of said inclined tracks, said cradle comprising a base structure and a deck structure supported on the base structure, said base structure having spaced and generally parallel rigid longitudinal elements extending throughout the length of the cradle in a plane adjacent and parallel to the inclined plane of said tracks, and spaced and

generally parallel rigid transverse elements extending throughout the width of the cradle in the general plane of and rigidly connected to said longitudinal elements, said deck structure having spaced generally parallel rigid longitudinal elements extending substantially throughout the length of the cradle and in a plane above and at an acute angle to the plane of the base structure, and spaced generally parallel rigid transverse elements rigidly connected to said longitudinal elements of the deck structure, antifriction means acting between each said inclined track and a said transverse element of the base structure at distributed locations along each said track, rigid struts extending between the transverse elements of the base and deck structures



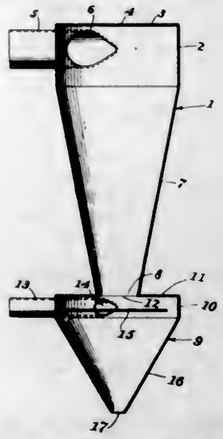
at distributed locations throughout the width of the cradle for supporting the deck structure above the base structure, tensile hauling elements connected to a said longitudinal element of the cradle structure at only two separated points between the opposite ends of the cradle, and trussing means operative between said longitudinal and transverse elements of the cradle maintaining all of said transverse elements of the base structure against relative movement in their inclined plane under load stresses imposed on the cradle when the cradle, with a hull thereon, is drawn broadside up the inclined tracks by the said tensile hauling elements connected only at said two separated points between the ends of the cradle.

2,590,690
FRICTION BRAKE FOR WHEELED VEHICLES
Adiel Y. Dodge, Rockford, Ill.
Application January 31, 1946, Serial No. 644,459
17 Claims. (Cl. 188—78)



1. A brake comprising a series of fixed abutments, a series of shoes mounted between the abutments, a plurality of pivoted levers lying radially within the shoes, means to spread the levers whereby they move radially outward, and rollers engaging the central parts of the shoes and the levers to urge the shoes outward when the levers are spread, the rollers having relatively narrow projections thereon fitting into openings in the shoes and levers to prevent slipping of the rollers relative to the shoes and levers.

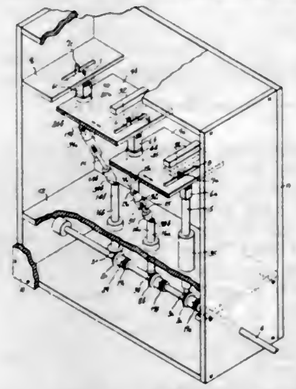
2,590,691
PROCESS FOR THE SEPARATION OF SOLID SUBSTANCES OF DIFFERENT SPECIFIC GRAVITY AND GRAIN SIZE
Freerk Jan Fontein, Heerlen, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands, acting for and on behalf of the State of the Netherlands
Application April 23, 1946, Serial No. 664,321
In the Netherlands July 31, 1945
11 Claims. (Cl. 209—173)



1. In combination, a pair of hydrocyclones, each of generally conical form and having a tangential inlet at its base end with both inlets similarly directed to effect a vortex in each rotating in the same direction, an apex opening, and a base opening aligned with its apex opening, the apex opening of one hydrocyclone forming the base opening of the other.

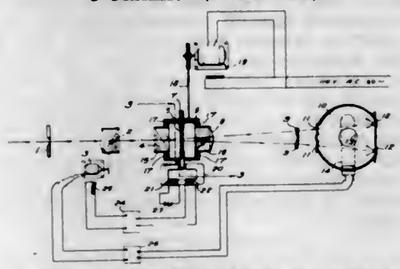
2,590,692
ADJUSTABLE VELOCITY-CONTROL MECHANISMS
Ferdinand Freudenstein, Buffalo, N. Y.
Application February 23, 1950, Serial No. 145,762
4 Claims. (Cl. 74—1)

1. An adjustable velocity-control mechanism comprising a main drive shaft and a plurality of auxiliary shafts arranged adjacent to each other, coupling means between said main drive shaft and auxiliary shafts for rotating the latter and embodying constant ratio-reduction members varying in angular velocity ratio to fit angular velocity terms of a series of sine and cosine terms, and to permit any desired velocity function to be split up into a series of sine and cosine velocity variations adapted to be added algebraically, said plurality of adjacent auxiliary shafts having a connection independently of the main shaft, said connection comprising a yoke member provided at one end with a slot, a crank member rigidly fastened to and having a driving connection with one of said auxiliary shafts, said crank member being adjustably mounted to slide in said slot to compel the yoke to move linearly in relation to the main shaft, supporting means for the yoke including bearings and fastening members guided by the bearings to permit movement in a direction parallel to the main shaft, said yoke having a



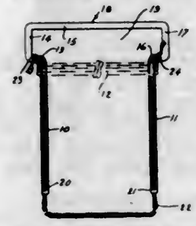
connection with an adjacent auxiliary shaft which it is driving, whereby each yoke is connected to the crank member of one auxiliary shaft as well as to the other auxiliary shaft by a connection which acts as a bearing and a driving member.

2,590,693
REFERENCE SIGNAL GENERATOR FOR FLICKERING BEAM PHOTOMETERS
Joseph W. Gabel, Sugar Grove, Ohio, and Serge A. Loukomsky, North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application March 31, 1950, Serial No. 153,268
5 Claims. (Cl. 88—14)



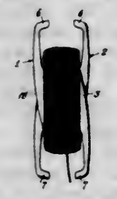
1. An improved flickering-beam photometer comprising in combination means for producing two beams of light flickering in opposite phase, a movable photometering element capable of varying the relative intensities of the flickering beams, a light-integrating device positioned to receive the flickering beams, photoelectric means for transforming the integrated light into an electrical signal, means for holding sample and standard respectively in the two flickering beams, electrically driven means for moving the photometering element, a high-gain flicker-frequency amplifier having an alternating current power source having its input connected to the photoelectric means and its output to the electrically driven means, the means for producing the flickering beams including a rotating element having portions thereof moving through an element in a signal generator capable of producing an alternating electric signal at flicker frequency, a flicker-frequency amplifier, connecting means from the signal generator to the input of the amplifier, means connecting the output of said amplifier to the electric driving means of the photometering element, and means for rotating the rotating element to produce a flicker frequency differing from that of the frequency of the power source for the flicker frequency amplifier and its harmonics, the output of the high-gain amplifier being in phase to cause the rotation of the electric driving means of the photometering element in a direction to eliminate flicker-frequency light fluctuations in the integrating means.

2,590,694
CROCHET FRAME
Leon J. Ghelmini, New York, N. Y.
Application October 12, 1949, Serial No. 121,039
3 Claims. (Cl. 66—1)



1. A crochet frame formed of a unitary body of material and having two spaced substantially parallel legs and an open overhanging head portion, the width of said head portion being substantially greater than the spacing of said legs, said open head portion forming a working space for a crochet needle, each of said legs having formed therein adjacent to the extremity thereof a hole having its axis 90° with respect to a plane extending through both said legs, whereby the ends of a length of material may be attached to said holes to form a loop defining the length of an article to be made on said frame.

2,590,695
BOBBIN FOR HAND KNITTING YARN AND THE LIKE
Jacob Gomberg, Chicago, Ill.
Application April 21, 1948, Serial No. 22,443
6 Claims. (Cl. 242—96)

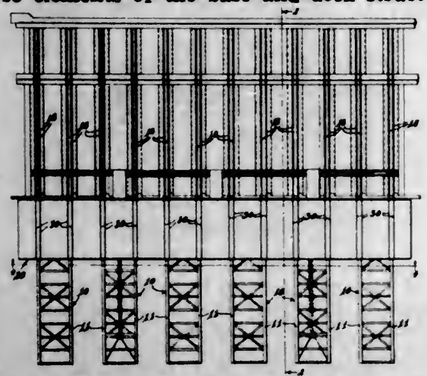


1. A bobbin for winding and holding yarn and the like, comprising two like members adapted to match together, means to pivotly secure said members in matched relation, each member having an oppositely disposed finger thereon, an oppositely disposed finger on each of the members facing when the two members are assembled, said fingers being adapted to move away from one another to provide an opening therebetween.

2,590,696
OIL SEAL
Resta S. Gregoire, Detroit, Mich.
Application September 13, 1945, Serial No. 616,074
1 Claim. (Cl. 288—3)

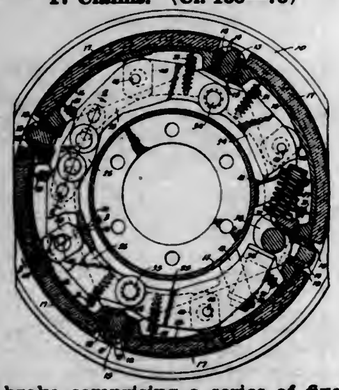
A fluid seal for moving shafts extending through a wall, said seal consisting of a frusto-

generally parallel rigid transverse elements extending throughout the width of the cradle in the general plane of and rigidly connected to said longitudinal elements, said deck structure having spaced generally parallel rigid longitudinal elements extending substantially throughout the length of the cradle and in a plane above and at an acute angle to the plane of the base structure, and spaced generally parallel rigid transverse elements rigidly connected to said longitudinal elements of the deck structure, antifriction means acting between each said inclined track and a said transverse element of the base structure at distributed locations along each said track, rigid struts extending between the transverse elements of the base and deck structures



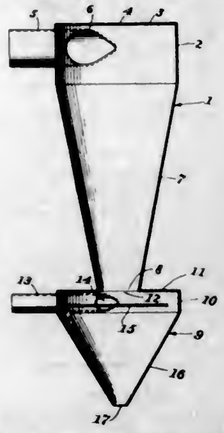
at distributed locations throughout the width of the cradle for supporting the deck structure above the base structure, tensile hauling elements connected to a said longitudinal element of the cradle structure at only two separated points between the opposite ends of the cradle, and trussing means operative between said longitudinal and transverse elements of the cradle maintaining all of said transverse elements of the base structure against relative movement in their inclined plane under load stresses imposed on the cradle when the cradle, with a hull thereon, is drawn broadside up the inclined tracks by the said tensile hauling elements connected only at said two separated points between the ends of the cradle.

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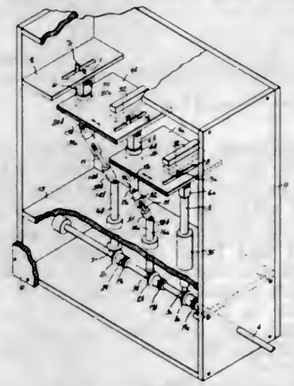
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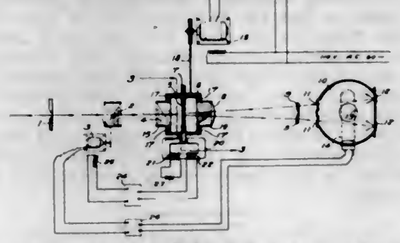
2,590,692
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Ferdinand Freudenstein, Buffalo, N. Y.
Application February 23, 1950, Serial No. 145,762
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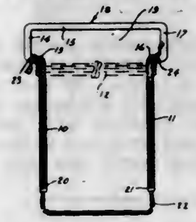
connection with an adjacent auxiliary shaft which it is driving, whereby each yoke is connected to the crank member of one auxiliary shaft as well as to the other auxiliary shaft by a connection which acts as a bearing and a driving member.

2,590,693
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Joseph W. Gabel, Sugar Grove, Ohio, and Serge A. Loukomsky, North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
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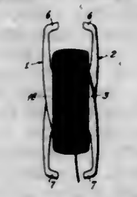
1. An improved flickering-beam photometer comprising in combination means for producing two beams of light flickering in opposite phase, a movable photometering element capable of varying the relative intensities of the flickering beams, a light-integrating device positioned to receive the flickering beams, photoelectric means for transforming the integrated light into an electrical signal, means for holding sample and standard respectively in the two flickering beams, electrically driven means for moving the photometering element, a high-gain flicker-frequency amplifier having an alternating current power source having its input connected to the photoelectric means and its output to the electrically driven means, the means for producing the flickering beams including a rotating element having portions thereof moving through an element in a signal generator capable of producing an alternating electric signal at flicker frequency, a flicker-frequency amplifier, connecting means from the signal generator to the input of the amplifier, means connecting the output of said amplifier to the electric driving means of the photometering element, and means for rotating the rotating element to produce a flicker frequency differing from that of the frequency of the power source for the flicker frequency amplifier and its harmonics, the output of the high-gain amplifier being in phase to cause the rotation of the electric driving means of the photometering element in a direction to eliminate flicker-frequency light fluctuations in the integrating means.

2,590,694
CROCHET FRAME
Leon J. Ghelmini, New York, N. Y.
Application October 12, 1949, Serial No. 121,039
3 Claims. (Cl. 66—1)



1. A crochet frame formed of a unitary body of material and having two spaced substantially parallel legs and an open overhanging head portion, the width of said head portion being substantially greater than the spacing of said legs, said open head portion forming a working space for a crochet needle, each of said legs having formed therein adjacent to the extremity thereof a hole having its axis 90° with respect to a plane extending through both said legs, whereby the ends of a length of material may be attached to said holes to form a loop defining the length of an article to be made on said frame.

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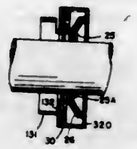


1. A bobbin for winding and holding yarn and the like, comprising two like members adapted to match together, means to pivotly secure said members in matched relation, each member having an oppositely disposed finger thereon, an oppositely disposed finger on each of the members facing when the two members are assembled, said fingers being adapted to move away from one another to provide an opening therebetween.

2,590,696
OIL SEAL
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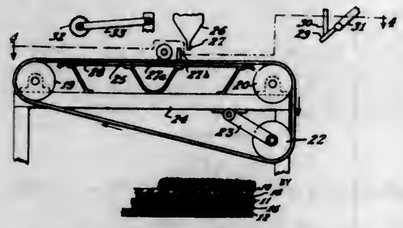
A fluid seal for moving shafts extending through a wall, said seal consisting of a frusto-

conical washer of yieldable material extending between said shaft and wall, a frusto-conical spring member fixed to the outer surface of said washer, said spring member being of less width than said washer, an annular plate contacting said spring member intermediate its edges, a second plate fixed to said wall around said shaft and adjacent said first plate, said second plate being



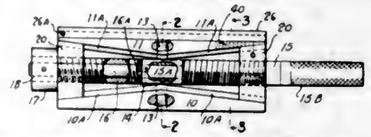
provided with arcuate slots, a ring member provided with circumferentially and axially projecting cam members carried by said second plate with the cam members extending through said slots and adapted to coact with said first plate and constructed and arranged to move the latter axially of the seal when the ring is partially rotated.

2,590,697
ENDLESS ABRASIVE BELT AND METHOD OF MANUFACTURING SAME
Don S. Grove, Carnegie, Pa.
Application April 8, 1949, Serial No. 86,184
12 Claims. (Cl. 51--297)



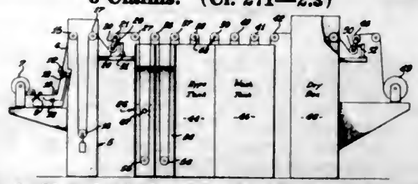
1. The method of making a plied endless abrasive belt, which includes the steps of preparing one ply of coating one side thereof with an elastomer, preparing at least one additional ply by impregnating the same with an elastomer, driving off the solvent in said elastomer by heating said plies to a temperature of about 200° F., softening said elastomer by heating said plies, and adhesively securing said plies together by a latex adhesive with the untreated side of said one ply on the outside, calendering said plies and vulcanizing them under a pressure of about 2000 pounds per square inch at a temperature of about 325° F., cutting said plies to the desired belt width, applying an elastomer to the plied edges of said belt, joining the free ends of said belt with the respective ply ends in bias butting relation and with the butt joints in the respective plies in stepped relation lengthwise of said belt with the untreated side of said one ply on the outside, and vulcanizing said joint at a temperature of about 325° F., causing said belt to pass over rollers, coating said belt with an adhesive on its untreated side, and blowing abrasive grains onto said adhesive by means of a nozzle, with a pressure of about 13 pounds per square inch, the blast of said nozzle being directed substantially radially of one of said rollers, and with said nozzle being at a distance of about 14 inches from the belt surface.

2,590,698
ADJUSTABLE BORE GAUGE
George D. Hayden, Newport, Mich.
Application April 29, 1947, Serial No. 744,587
2 Claims. (Cl. 33—162)



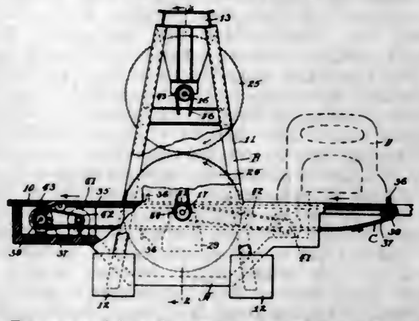
1. An inspection device for bored or drilled holes and for inside measurements consisting of a pair of bars having their outer edge faces parallel, one of said edge faces being provided with a longitudinal dovetail, means for moving said bars toward and from each other while maintaining their parallelism, and an expander bar provided with a mating dovetail along one edge face whereby to fix said expander bar to said dovetailed bar, said expander bar having its outer edge face parallel to the outer edge faces of said pair of bars.

2,590,699
DRIVE FOR PHOTOGRAPHIC MATERIAL
Eric H. Heyer, Los Angeles, Calif.
Application October 20, 1947, Serial No. 780,914
8 Claims. (Cl. 271—2.3)



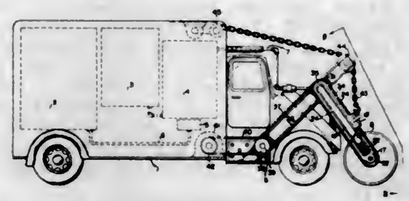
7. A film feed drive comprising a feed roller having an axis of rotation, a photographic material wrapped around a substantial portion of said roller, a bracket swingable about said axis, a roller mounted on said bracket, said photographic material passing around said swingable roller and then reversely around said feed roller, and resilient means attached to said bracket for exerting a predetermined tension in said material, an increase in said tension swinging said swingable roller about said axis of said feed roller to a position to disengage said material from said feed roller.

2,590,700
CUTTING AND SALVAGING AUTOMOBILE BODIES
Bruce Irwin Hochman, Los Angeles, Calif.
Application April 13, 1950, Serial No. 155,684
2 Claims. (Cl. 29—70)



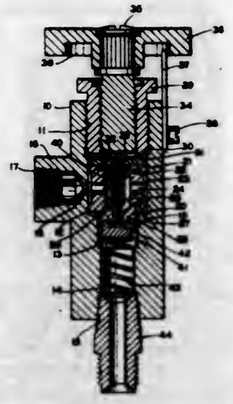
1. In a machine for salvaging discarded automobile bodies, a supporting base, a superstructure mounted on said base, a lower horizontal drive shaft journaled in said base, an upper horizontal drive shaft journaled in said superstructure in substantial vertical alignment with said lower shaft, the distance between said drive shafts permitting passage of an automobile body therethrough, a pair of lower cutting disks mounted upon and rotated by said lower drive shaft, a pair of upper cutting disks mounted upon and rotated by said upper drive shaft, the corresponding cutting edges of each pair of disks being in close proximity one to the other and being slightly offset laterally to avoid overheating of the cutting edges, means for driving said shafts at a high speed, and conveyor means for feeding discarded automobile bodies sidewise into the bite of said cutting discs, whereby said bodies are cut into relatively short sections suitable to be compressed into bales.

2,590,701
SNOW MELTING APPARATUS
Max Hoffman, Boston, Mass.
Application January 16, 1946, Serial No. 641,449
1 Claim. (Cl. 37—13)



A snow melting apparatus comprising a vehicle mounted on pneumatic-tired wheels, provided with conventional steering means and having a motor for driving it, a pair of parallel, rigid channel beams arranged at opposite sides respectively of the vehicle, each beam being rigidly fixed at its rear end to the vehicle body adjacent to the forward end of the vehicle body, the beams extending upwardly and forwardly, a rigid, forked frame whose rear end is pivotally connected to the channel beams so as to rock about a horizontal axis spaced from the upper ends of said channel beams, a shaft connecting the upper ends of said beams, a pulley on the shaft, a flexible connector secured at its lower end to the rigid frame at a point below and forward of the pivotal axis of the latter, said flexible connector extending over the pulley and being secured at its opposite end to a winch mounted on the vehicle, a snow melting drum journaled in the forward end of said pivoted, rigid frame to turn about a horizontal axis, a sprocket gear fixed to the drum coaxially with the latter, a second sprocket gear coaxial with the pivotal axis of the rigid frame, a sprocket chain embracing said sprocket gears, means extending along one of said channel beams for transmitting motion from the vehicle motor to the second-named of said sprocket gears thereby positively to turn the drum, the motion-transmitting means being so designed that the drum is turned at substantially the same angular velocity as the vehicle wheels, a steam generator mounted on the vehicle, means operative in all positions of the pivoted frame to conduct steam from the generator to the interior of the drum, the peripheral surface of the drum being perforated thereby to permit steam to escape from the drum, and a stationary shield within the drum operative to prevent escape of steam from the drum except at the lower part of the latter.

2,590,702
HIGH-PRESSURE VALVE
Bradford B. Holmes, New York, N. Y., and Jacob L. Pauly, Hasbrouck Heights, N. J., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application December 9, 1946, Serial No. 715,068
2 Claims. (Cl. 251—137)

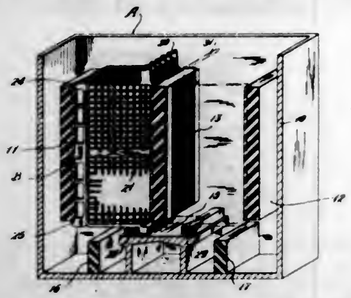


1. A valve for controlling the flow of fluid under pressure comprising a housing having a through bore, a hollow plug in one end of said bore, manually operable screw means through said plug closing one end of said bore, an inlet in the other end of said bore, an outlet in said housing, a valve chamber in said housing intermediate said hollow plug and inlet and communicating with said outlet, a hollow valve member in said chamber including a valve seat communicating with said inlet, and port means communicating with said chamber, a valve stem extending through said hollow valve member and engageable with said screw means, a bushing about said stem, resilient sealing means about said stem and bushing, a floating valve member in said bore and engageable with said valve seat and stem, spring means urging said floating valve member into engagement with said valve seat and stem, said manual means being operative to unseat said floating valve member against the bias of said spring means, and said resilient means being pressed into closer sealing engagement with said bushing and stem by the flow of fluid under pressure through said valve.

2,590,703
STORAGE BATTERY PLATE AND METHOD OF FORMING SAME
John Homan, Cleveland, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application September 24, 1949, Serial No. 117,601
4 Claims. (Cl. 136—34)

3. The method of forming lead-acid storage battery plates of the pasted grid type which comprises alternately arranging in vertical side-by-side position negative and positive double plates in a forming tank with one end of alternate plates engaging an electrode in the tank said plates having a vertically extending dummy section along one side and arranged with the dummy sections adjacent to one another, said plates each having a pair of lugs of substantially different length adjacent to one side and one lug projecting from one end thereof and the other lug projecting from the opposite end thereof, said alternate plates having the longer of said lugs thereof at

the bottom end and resting on the electrode and the plates adjacent said alternate plates having the shorter lugs at the bottom edge, supporting said plates vertically by maintaining said dummy sections upright, supporting the bottoms of said plates adjacent to said alternate plates so that



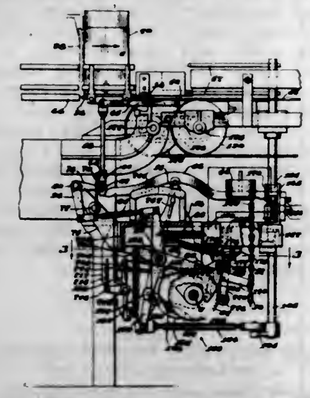
the shorter lugs thereof are spaced from the electrode and the longer of the lugs thereof project upwardly beyond the shorter lugs of said alternate plates, connecting said upwardly projecting longer lugs with a second electrode, and impressing voltage between the lugs of the respective plates.

2,590,704

CHECK WEIGHING MACHINE

Stanley R. Howard, Milton, and Robert W. Vergobbi, Quincy, Mass., assignors to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Application December 12, 1947, Serial No. 791,399
14 Claims. (Cl. 209—121)



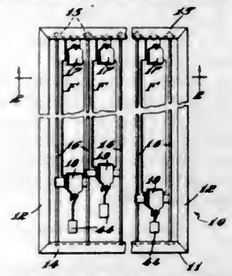
1. Weighing mechanism comprising in combination, a scale beam, counterweight means for said scale beam sufficient to initially overbalance a package approximating a predetermined weight, independently movable means for applying a gradually increasing force to overcome the overbalance of the counterweight means to thereby effect movement of the scale beam to a balanced position, means responsive to the movement of the scale beam to said balanced position to effect termination of the movement of said force applying means, and package rejecting means controlled in accordance with the position occupied by said force applying means at the time its movement is terminated for effecting rejection of a package found to deviate beyond definite limits from said predetermined weight.

2,590,705

FILM RACK

Cornelius S. Hurlbut, Jr., Belmont, Mass., assignor to Cambridge Thermionic Corporation, Cambridge, Mass., a corporation of Massachusetts

Application January 25, 1949, Serial No. 72,705
2 Claims. (Cl. 95—100)



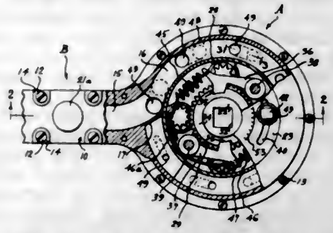
1. A rack for supporting a plurality of strips of photographic film comprising a supporting frame, a plurality of parallel guides the ends of which are attached respectively to opposed sides of the frame, alternate guides being located in two parallel planes, fastening means for securing the respective ends of the film strips to said frame, a plurality of stretching means each attached to a guide in one vertical plane and an adjacent guide in the parallel plane so as to be freely slidable thereupon and having a clamp to grip the opposite ends of the respective said film strips, and means for moving the stretching means along said guides whereby the film strips are prevented from curling.

2,590,706

GEAR-OPERATED SOCKET WRENCH

Peter Isaac, St. Catharines, Ontario, Canada

Application June 22, 1949, Serial No. 100,600
2 Claims. (Cl. 81—57)



1. A compressed air powered fastening driver for nuts, bolts, studs, screws and the like, comprising a head portion, a handle portion, a tool-supporting sleeve rotatably mounted in said head portion, a bladed rotor concentrically rotatably mounted upon said tool-supporting sleeve, speed reduction gearing operatively connecting said rotor and said tool-supporting sleeve, and a passageway leading through said handle portion into said head portion whereby compressed air may be directed to impinge upon the blades of said rotor, causing the latter to rotate and, through said reduction gearing, causing said sleeve to rotate, said rotor including an inwardly extending web that terminates in a hub member, said hub member being journalled on said tool-supporting sleeve, said speed reduction gearing comprising a spur gear rigidly secured to, and concentrically disposed with respect to, said tool-supporting sleeve, planetary compound gears journalled in the web of said rotor, and a ring gear journalled upon said tool-supporting sleeve, each

of said planetary compound gears comprising an axle and two gear wheels rigidly secured to opposed ends of said axle, one of the gears of the planetary compound gear meshing with said spur gear, the other of the gears of said planetary compound gear meshing with said ring gear.

2,590,707

TURNED SLIP-LASTED SHOE AND METHOD OF MAKING THE SAME

Gilbert F. Jonas, St. Louis, Mo., assignor to Boyd-Welsh, Inc., St. Louis, Mo., a corporation of Missouri

Application July 8, 1946, Serial No. 682,089
16 Claims. (Cl. 36—19.5)



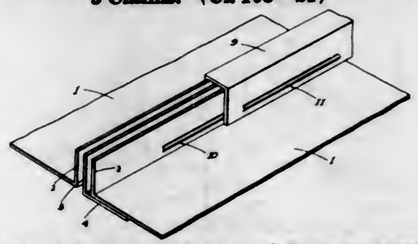
1. In a shoe construction, an upper having a seam allowance on its lower edge, a flexible insole in the shape and size of the bottom of the inside of a shoe, and having a seam allowance on its marginal edge, the seam allowances being overlapped, attachment means fastening together the seam allowances, the attached upper and insole constituting a closed upper of determined size, the raw seam edges being disposed inwardly of the closed shoe upper, and the closed part of the seam being outwardly, an outsole attached below the insole, the insole being sized to dispose the seam on the bottom of the closed upper part of the shoe, and a fillersole above the insole on the inside of the shoe, said fillersole being sized to be contained within the seam around the shoe, and to constitute a filler between the seam edges, the seam allowances being disposed against the edge of the fillersole substantially parallel therewith.

2,590,708

INTERLOCKING ROOFING OR SIDING

Mitchell L. Jurasevich, Alturas, Calif., assignor to Elsie Myrtle Jurasevich, Alturas, Calif.

Application June 14, 1948, Serial No. 32,858
5 Claims. (Cl. 108—21)



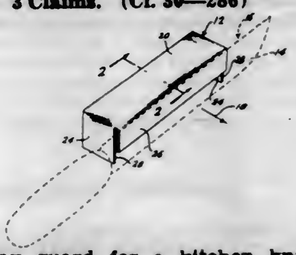
1. An interlocked sheet metal cover assembly comprising, on a support, metal sheets in longitudinal side by side relation, outwardly projecting flanges on adjacent longitudinal edges of the sheets, a locking flange disposed between said sheet flanges adapted to be secured to the support, longitudinally spaced hooks struck from the sheet flanges toward each other, and reception eyes struck from the locking flange, toward the sheet flanges, corresponding to and receiving said hooks therein.

2,590,709

SPRAY GUARD FOR KNIVES

Gertrude Kahn, New York, N. Y.

Application March 2, 1948, Serial No. 12,557
3 Claims. (Cl. 30—286)



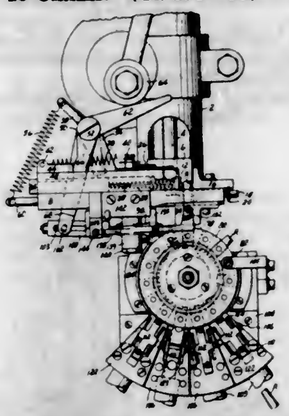
2. A spray guard for a kitchen knife, said guard comprising a top wall, a back wall, a front wall, and a gripper wall forming an extension of said top wall, said gripper wall being spaced slightly from the front wall and forming an inverted open ended channel to receive the blunt back edge of a knife blade therebetween with a friction grip, with the guard slid downwardly over the top or back edge of the blade.

2,590,710

FEEDING OF TAPERED ARTICLES

Joseph Klopak, Newark, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 29, 1948, Serial No. 57,298
19 Claims. (Cl. 198—33)



1. In apparatus of the character indicated, a circular carrier having a series of peripherally spaced radial pockets, means for intermittently rotating the carrier, means for inserting tapered articles small end foremost into the pockets, an arcuate retainer covering a portion of the periphery of the carrier and retaining said articles small end foremost in the pockets as the articles travel beyond a horizontal position, and a discharge block adjacent to the retainer and receiving the articles large end foremost from the pockets.

2,590,711

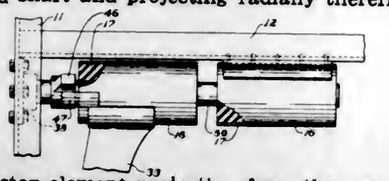
VARIABLE RATE SPRING ASSEMBLY

Alvin S. Krotz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application December 31, 1946, Serial No. 719,446
3 Claims. (Cl. 267—21)

1. A spring suspension comprising a structure, a shaft journaled in said structure for relative

rotation thereto, a pair of axially spaced-apart cylindrical members about said shaft, one of said cylindrical members being mounted on said structure, a radially extending arm mounted on the other of said cylindrical members, bodies of resilient rubber-like material mounted between said shaft and said members for resisting relative rotation of said shaft and said members in cylindrical shear for cushioning rotative movement of said arm relative to said structure, a lug mounted on said shaft and projecting radially therefrom



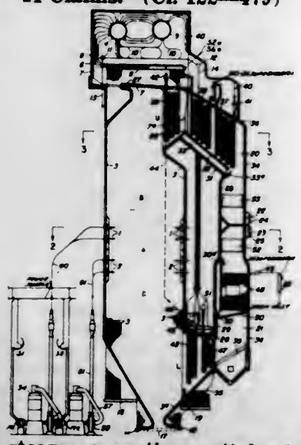
and a stop element projecting from the member upon which said arm is mounted into lost-motion relation with respect to the lug for twisting both said bodies during the rotative movement of said arm relative to said structure through the lost-motion range and for twisting only the body having the cylindrical member mounted on said structure during the rotative movement of said arm relative to said structure after engagement of said lug and said stop element for increasing the resistance to rotative movement of said arm relative to said structure.

2,590,712

STEAM GENERATOR WITH DOUBLE OUTLET FURNACE

Joseph A. Lacerenza, New York, N. Y., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware

Application April 22, 1948, Serial No. 22,643
11 Claims. (Cl. 122—479)



1. In a steam generating unit having a generally vertical furnace associated therewith; steam generating tubes lining the walls of the furnace; a top offtake adjacent the upper end of the furnace and a bottom offtake adjacent the lower end of the furnace; means forming two passes for the flow of furnace leaving gases therethrough, the first of said passes being connected to said top offtake and the second pass being connected to said bottom offtake; damper means in at least one of said passes adjustable to govern the apportionment between those two passes of the total gases leaving the furnace therethrough; at least one fluid heater arranged in each of said first and second passes; burner means located between said top and bottom offtakes in the furnace walls and arranged for delivering fuel and air to be burned into the furnace tangentially to an imaginary vertically disposed cylinder in said furnace; and means for tilting said burners for directing the fuel and air streams therefrom within the furnace toward said top offtake or toward said bottom offtake to vary the relative amount of heat absorbed by said steam generating tube portions in both the upper and lower portions of the furnace.

2,590,713

METHOD OF COATING AND TREATING A PILE FABRIC TO SET THE FIBERS IN THE UPSTANDING POSITION

Winfield Scott Libbey, Lewiston, Maine, assignor to W. S. Libbey Company, Lewiston, Maine, a corporation of Maine

Application May 27, 1950, Serial No. 164,641
2 Claims. (Cl. 117—62)



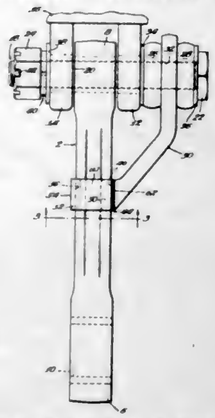
1. In a method of making a resilient and porous fibrous fabric sheet having upstanding pile fibers, the steps of; coating said fabric and said fibers with a liquid rubber coating composition, allowing said coating on said fabric and fibers to partially dry to a tacky state, engaging the tip portions of said fibers with the outer continuous and tacky surface of a rotatable cylindrical roll, simultaneously rotating said roll and moving said fabric therepast so that said fibers in contact with said tacky surface move in the same direction as said surface then tangentially away therefrom to pull said fibers to substantially upstanding position relative to said fabric and to then separate said tacky surface from said fibers leaving the latter in said substantially upstanding position, thereafter passing said coated fabric and upstanding fibers through a drying zone while supporting said fabric on an air cushion in said zone.

2,590,714

BRAKE HANGER STABILIZER

David M. Light, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application November 16, 1949, Serial No. 127,699
7 Claims. (Cl. 188—207)



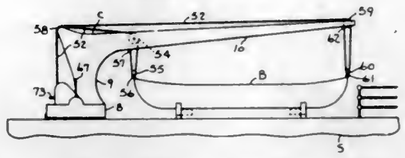
2. In a brake arrangement, a support, a hanger pendulously suspended therefrom, a control member at one side of the hanger, a resilient connection between one end of said arm and said support, and a connection between the other end of said arm and said hanger intermediate the ends thereof, said connection including a jaw on said arm and a U-shaped clamp oppositely arranged with respect to said jaw, said jaw telescoping into said clamp and embracing said hanger therewith, and a weld connection between each end of said clamp and said jaw.

2,590,715

BOAT LAUNCHING APPARATUS

Charles A. Linsmeier, Two Rivers, Wis.

Application October 17, 1947, Serial No. 780,489
3 Claims. (Cl. 9—40)



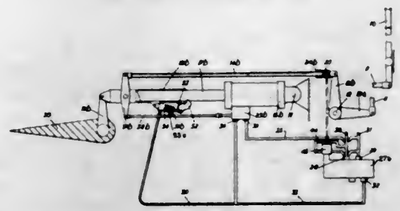
1. In a boat launching apparatus, the combination of a crane having a base portion and a turntable mounting connection with the deck of a ship including radially disposed bearing rollers, said crane being provided with an integral cantilever boom adapted to project a boat's length beyond the side of the ship, a motor driven shaft mounted on the base portion of said crane, a ring gear fixed to the deck of the ship, a shaft having clutch connection with said motor driven shaft, gearing connections between said last named shaft and said fixed gear for swinging said crane, a drum shaft, a driving connection between said motor driven shaft and said drum shaft including a clutch, a pair of drums mounted on said shaft, and cables mounted on said drums and operatively connecting opposite ends of the boat with said boom.

2,590,716

POWER-OPERATED FLYING CONTROL SYSTEM FOR AIRCRAFT

William George Lisle, East Bedfont, England, assignor to The Fairey Aviation Company Limited, Hayes, England

Application August 18, 1948, Serial No. 44,875
In Great Britain August 26, 1947
6 Claims. (Cl. 60—97)



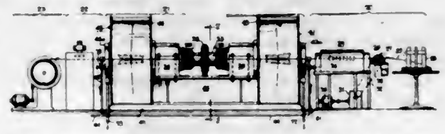
1. A power-operated flying control system for an aircraft, comprising a source of fluid pressure, a control surface, a pilot's control, duplicated independent servo means connected on the one hand with the pilot's control and on the other hand releasably with the control surface, and means arranged, in case of emergency to effect the release of one of the servo means and the actuation of the control surface by the other servo means.

2,590,717

AUTOMATIC GAUGE REGULATOR FOR GRINDING AND POLISHING MACHINES

Wallace K. Lowe, Syracuse, N. Y., assignor to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey

Application February 12, 1951, Serial No. 210,561
12 Claims. (Cl. 51—165)



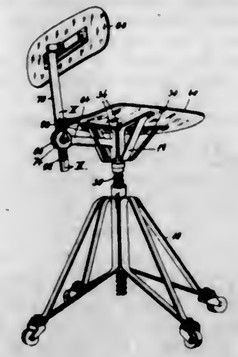
1. A gauge adjusting and automatic regulating apparatus for grinding and polishing machines having a motor driven abrading element for surface grinding elongated stock, said apparatus comprising: means including a reversible screw-down motor for relatively displacing said abrading element toward and away from said stock; a pair of switching means for selectively energizing said motor in one direction of rotation and the reverse for positioning said abrading element to grind said stock to a preselected gauge; and means for thereafter automatically controlling the positioning of said abrading element to maintain said gauge, said means including a relay having a contact arm deflectable in one direction between fixed contacts, to actuate one said switching means and deflectable in the opposite direction to actuate the said second switching means; a gauging element for continuously gauging said stock; and means responsive to said gauging element for oppositely energizing said relay in response to variations in the gauge of said stock above and below said preselected gauge and in such direction as to compensate for said variations through compensatory adjustments of said screw-down motor.

2,590,718

ADJUSTABLE CHAIR BACK

Carl Ernst Edward Lundquist, Stockholm, Sweden

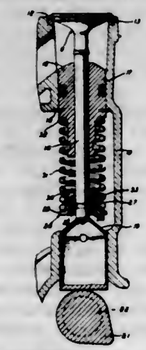
Original application April 29, 1944, Serial No. 533,370. Divided and this application January 15, 1948, Serial No. 2,512. In Sweden May 12, 1943
3 Claims. (Cl. 155—157)



1. In an adjustable chair, a seat supporting frame, an arm secured to and extending rearwardly from said frame, a first gear member rigidly secured to said arm, a longitudinally slotted back supporting post, a second gear member on one side of said post and an apertured retaining member on the other side of said post rigidly fixed to said second gear member

to provide a guide for said post, said post being longitudinally slidable and non-rotatable relative to said guide, a pressure plate located in the aperture in said retaining member, and means for locking said post against movement relative to said arm comprising a locking element fixed to said first gear member and extending through said second gear member, the slot in said post and said pressure plate, and a handle pivoted on said locking member, said handle having a cam located to bear on said pressure plate to draw said gear members into locking engagement and to grip said post between said second gear member and said pressure plate.

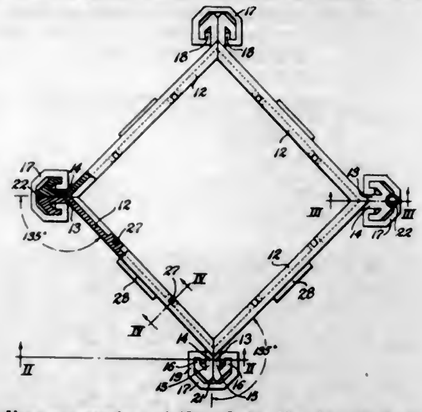
2,590,719
ROTATION PERMITTING ASSEMBLY FOR POPPET VALVES
Earle Steele MacPherson, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application May 3, 1949, Serial No. 91,123
4 Claims. (Cl. 123—90)



1. A valve assembly for an internal combustion engine comprising a poppet valve having an enlarged head and an elongated cylindrical stem, said stem having an annular groove formed in its periphery near one end thereof, split keys embracing said stem and having tongues entering said annular grove to prevent relative axial movement therebetween, the exterior surface of said keys being tapered toward the head of the valve, an annular tapered sleeve encircling and embracing said split keys to clamp the latter in position upon said valve stem, the end of said sleeve facing the head of the valve lying in a radial plane and being located closely adjacent the periphery of the valve stem, a valve spring retainer seated upon the last-mentioned end of said sleeve, and a valve spring having one end supported upon said valve spring retainer in a zone radially outwardly of the zone of engagement between said retainer and said sleeve.

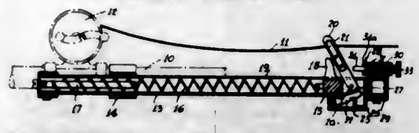
2,590,720
SECTIONAL MOLDER'S FLASK
Robert O. Mayer, Cincinnati, Ohio
Application April 4, 1949, Serial No. 85,360
1 Claim. (Cl. 22—106)

An open-ended molder's flask comprising four demountable sections, each of said sections including a flat enlongated main panel and a pair of attaching lugs, a lug being formed at each end of the main panel and integral therewith, each of said lugs including a back extending from the main panel at an angle of 135 degrees thereto and an integral inwardly directed return bend attached to the end of the back opposite the main panel and extending substantially parallel to and spaced from the back to form a slot between the back and the return bend, the backs of the lugs of adjacent sections being in abutting relation, whereby main panels of adjacent sections extend at right angles, four clamps, each of said clamps being of substantially C-shape and embracing the return bends of adjacent lugs, a pair of return bends integral with each clamp and extending inwardly of the clamp from and substantially parallel to side arms thereof, each return bend of the clamp extending into the slot between the return bend and back of one of the lugs, the lugs and clamp having complementary tapered surfaces



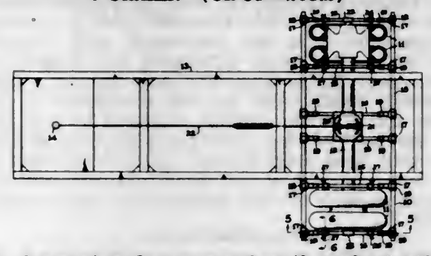
extending crosswise of the slots, the tapered surfaces being in engagement to hold the lugs of adjacent sections firmly together in assembled relation to form a rectangular flask, there being a space formed between the back of each C-shaped clamp and the lugs of adjacent sections, four bolts, there being a bolt for each clamp, each bolt extending through one of said spaces, and a pair of pressure members carried by each bolt, said members being advanceable along the bolt, one of said members bearing on the lugs held by said clamp at one end of said clamp, the other of said members bearing on the other end of said clamp to urge the clamp crosswise of the lugs to hold the tapered surfaces in engagement.

2,590,721
FISHING APPARATUS
Charles H. Muth, New York, N. Y.
Application November 26, 1948, Serial No. 62,137
6 Claims. (Cl. 43—15)



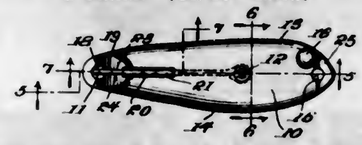
1. In combination with a fishing rod having a winding reel and a fishing line, a device attachable thereto, said device comprising a hollow tubular member having a longitudinal slot therein, a carriage slidable within said member, a spring normally tending to retract said carriage, a spring-urged detent pivotally carried by the tubular member and releasably retaining said carriage in advanced position, a tripping lever pivoted to said carriage and clip means mounted on said lever for frictionally engaging said fishing line, whereby to actuate said tripping lever in response to the pull of a biting fish and suddenly retract said carriage and line to securely hook the fish.

2,590,722
WHEEL ALIGNING DEVICE
Nelson G. Otis, Bay Village, Ohio, assignor to Helen M. Warner, Olmstead Falls, Ohio
Application October 30, 1948, Serial No. 57,513
7 Claims. (Cl. 33—203.2)



1. Apparatus for measuring the wheel alignment of a vehicle comprising a generally rectangular gauging frame, said frame encompassing two oppositely facing wheels and the interconnecting axle of said vehicle and being mounted on said axle, and, connected both to said frame and to said vehicle, dial-and-pointer means for indicating the alignment of said axle with respect to the line of draft of said vehicle.

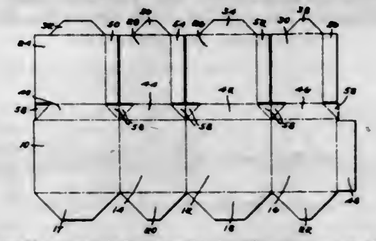
2,590,723
FISHING SPOON HOOK MOUNTING
Carl W. Roes, Pikesville, Md.
Application July 1, 1949, Serial No. 102,589
1 Claim. (Cl. 43—42.52)



A fish lure comprising an elongated concavo-convex plate in which the width of the leading end is greater than that of the trailing end, said plate having an angularly disposed lip on the leading end, and said leading end having a line receiving opening therethrough, said plate also having spaced openings through the trailing end and said spaced openings and line receiving opening being positioned on the longitudinal center of the plate, a hook having a shank with an eye on one end thereof, said shank extending through the spaced openings in the trailing end of the plate and the said eye being positioned in a plane perpendicular to the plane of the bight of said hook, the one of the said spaced openings in the trailing end of the spoon having a key-hole shape and the other of the said spaced openings being elongated and of rectangular shape, said spaced openings being so positioned that when the shank of the hook is inserted through said openings the eye on the end of the shank is held in spaced relation to the face of the plate, and a rivet through the eye of the shank of the hook and also through the plate acts to force the eye of the shank against said face and to place the shank of the hook under tension.

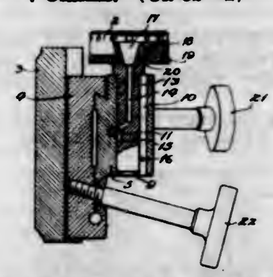
2,590,724
INSULATED BOX
James Ruthven, Jr., Rockland, and Robert G. Harrison, North Quincy, Mass.
Application October 11, 1949, Serial No. 120,737
3 Claims. (Cl. 229—16)

2. In a double-walled insulated box, a single blank of corrugated board folded to form the box, the outer walls being joined by folded vertical edges except at one vertical edge, the pair of outer walls which meet at said last named vertical edge being joined together by a flap of one of said walls, a reinforcement secured to the exterior of the box to seal the joint between said pair of walls, each of the inner vertical walls being connected to an outer wall by a flap which forms a top closure for the space between said walls, each of said inner walls having an extension abutting at a free vertical edge against an



outer wall at a right angle to the inner wall and each of said inner walls having a vertical flap abutting at its free vertical edge against an outer wall which is parallel to the inner wall, said vertical flap overlapping an extension from an adjacent inner wall and means for securing together said inner wall flaps and inner wall extensions, said inner and outer walls having bottom flaps folded inwardly in parallel planes, a reinforcing member for the entire area of the bottom of the box and means for securing said flaps to said reinforcement.

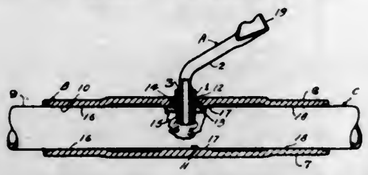
2,590,725
MICROTOMES
Otto Sänger, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application August 23, 1949, Serial No. 111,784
In Germany April 25, 1949
7 Claims. (Cl. 62—1)



1. In a microtome, the combination of a support having a vertically disposed elongated bore, said support having a cooling fluid supply passageway communicating with said bore at a point intermediate the ends of the latter, and said bore being provided with a vertically disposed groove extending longitudinally of said bore and being in spaced relation to the mouth of said passageway, a removable stage having a cooling chamber and including a stem slidably receivable in said bore, a projecting lug on said stem slidably receivable in said groove, a fluid passageway in said stem communicating at its upper end with said chamber and having an entry opening at its lower end in the exterior surface of said stem between the upper and lower ends of such stem, the entry opening of said stem passageway and said lug being so positioned on said stem, that when said stem and lug are slidably inserted in said

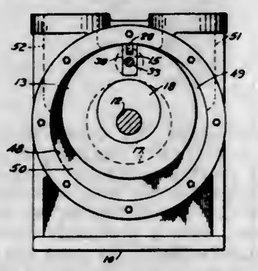
bore and groove, respectively, the entry opening will move into registry with the mouth of said supply passageway to bring said supply passageway into communication with said stem passageway, and means for securing said stem on said support with the passageways in communication.

2,590,726
ORCHARD OR LAWN SPRINKLER
Marion B. Sawyer, Sr., Whittier, Calif.
Application January 10, 1949, Serial No. 69,991
6 Claims. (Cl. 299—105)



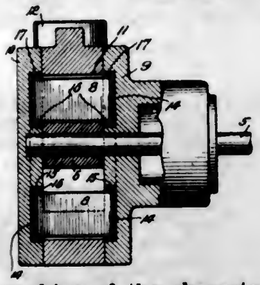
1. In a sprinkler for connection to a flexible hose at a point intermediate the ends thereof, the combination of: a base member formed of separable halves and defining a tubular channel for receiving an encompassing said hose; clamping means for drawing said halves together to clamp said hose in said channel, said hose having an opening through the wall thereof within said channel; a rotating tubular arm including a journal portion and a discharge portion comprising an angularly disposed extension of said journal portion; bearing means secured to one of said halves in a position overlying said opening in said hose and supporting said journal portion for rotation about the longitudinal axis thereof; and sealing means on said bearing means for entering said opening and forceably engaging the wall of said hose surrounding said opening to provide a seal for preventing leakage of fluid from said hose.

2,590,727
SELF-CONTAINED ROTARY DEVICE
Frank Scognamillo, Bronx, N. Y., assignor to Scognamillo Engineering Company, Bronx, N. Y.
Application February 21, 1949, Serial No. 77,649
2 Claims. (Cl. 103—136)



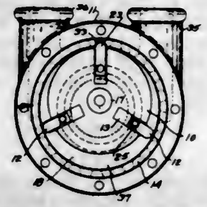
1. A rotary machine of the character disclosed comprising a housing having opposed end walls connected by a cylindrical peripheral wall and forming therewith a substantially cylindrical chamber, said peripheral wall having spaced inlet and outlet ports open to said chamber, a shaft journaled in said end walls concentric with said cylindrical chamber, a cylindrical flange fixed on said shaft at the inner face of one of said end walls and having a cylindrical socket in the peripheral portion of the same open to said chamber, a cylindrical ring journaled on said opposite end wall concentric to said chamber and having a cylindrical socket in the peripheral portion of the same opposed to said socket in the flange, a stationary cylindrical core projecting from said opposite end wall to the inner face of said flange, a cylindrical rotor journaled on said core eccentric to said chamber and in running engagement with the peripheral wall between said ports, said rotor extending full length between said flange and ring and having a substantially radial slot in the periphery of the same and a blade slidably engaged in said slot and having running clearance with said peripheral wall, said blade having cylindrical heads at the opposite ends of the same rotatably engaged in said sockets in the flange and ring, respectively.

2,590,728
ROTARY PUMP
Frank Scognamillo, Fair Lawn, N. J., assignor to Scognamillo Engineering Company, Bronx, N. Y., a company of New York
Application June 16, 1950, Serial No. 168,417
1 Claim. (Cl. 103—136)



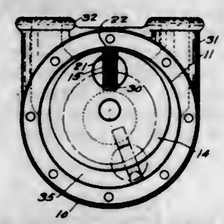
A rotary machine of the character disclosed comprising a casing having opposed end walls connected by a cylindrical wall and providing a cylindrical chamber, a shaft journaled eccentrical in said chamber, a rotor on said shaft, ports in said chamber opening through said cylindrical wall at opposite sides of said rotor, said rotor having radial slots therein, radially disposed blades slidably confined in said slots with their outer longitudinal edges opposed to and in cooperative relation to said surrounding cylindrical wall and their radially extending end edges projecting beyond opposite ends of the rotor, stationary hubs on the opposite end walls of said chamber concentric with said cylindrical wall and end discs rotatably engaged on said stationary hubs in free sliding engagement with the radially extending end edges of said blades, said discs having annular flanges at the inner edges of the same projecting inwardly toward the ends of the rotor into supporting engagement with the portions of the inner longitudinal edges of the blades which project beyond the ends of the rotor to hold the blades radially outwardly into cooperative relation with the cylindrical wall of the chamber and said discs further having annular flanges at the outer edges of the same projecting inwardly toward the ends of the rotor and engaging over portions of the outer edges of the blades projecting beyond the ends of the rotor to confine radially outward movement of the blades in respect to the surrounding cylindrical wall of the chamber and said discs being free to remain stationary with respect to the rotor and blades or to turn, independently of each other and independently of the rotor and blades, whereby to maintain a sliding sealing engagement with the ends of the blades under various conditions of operation.

2,590,729
ROTARY COMPRESSOR
Salvatore Scognamillo, Bronx, N. Y., assignor to Scognamillo Engineering Company, Bronx, N. Y.
Application June 16, 1948, Serial No. 33,407
12 Claims. (Cl. 103—121)



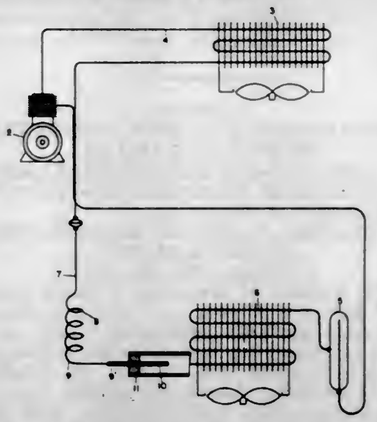
1. A rotary engine comprising a housing having a cylindrical chamber therein and having inlet and outlet connections communicating with said chamber, a perforated sleeve having a transverse slot in the inner surface freely mounted in the cylindrical chamber of the housing, a rotor having a radially disposed slot therein rotatably mounted in the housing and eccentrically positioned in the said cylindrical chamber, said rotor positioned to contact the sleeve at a point between the inlet and outlet connections of the housing, rotatable discs with radially disposed slots in the inner faces freely mounted in the housing and positioned at the ends of the rotor, and a blade freely slidable in the slot of the rotor and positioned with the outer edge thereof in the slot of the perforated sleeve and with the ends thereof extended beyond the ends of the rotor and positioned in the radially disposed slots of the discs.

2,590,730
BLADE DRIVEN ROTARY PUMP
Salvatore Scognamillo, Bronx, N. Y., assignor to Scognamillo Engineering Company, Bronx, N. Y.
Application December 18, 1948, Serial No. 66,098
2 Claims. (Cl. 103—136)



1. A rotary machine of the character disclosed comprising a housing having opposed end walls and a cylindrical peripheral wall connecting the same and forming therewith a substantially cylindrical chamber, said peripheral wall having spaced inlet and outlet ports opening into said cylindrical chamber, a shaft journaled in one end wall of the housing concentric with the cylindrical chamber, a cylindrical flange on the inner end of said shaft rotating within the chamber in running clearance with the end wall in which the shaft is journaled, said flange having a cylindrical socket in the peripheral portion of the same open to the interior of the chamber, a disc journaled to rotate on the opposite end wall of the housing concentric with the cylindrical chamber and having a cylindrical socket in the peripheral portion of the same opposed to the cylindrical socket in said flange, a cylindrical rotor journaled on said opposite end wall eccentric to the cylindrical chamber, extending completely between said flange and disc and having running clearance with the cylindrical portion of the peripheral wall between said inlet and outlet ports, said rotor having a substantially radial slot in the periphery of the same and a blade slidingly engaged in said slot and in running engagement with the peripheral wall, said blade having enlarged cylindrical heads at opposite ends of the same rotatably seated in said cylindrical sockets in the flange and disc, respectively.

2,590,731
MEANS FOR REDUCING NOISES IN REFRIGERATION SYSTEMS
Sam F. Shawhan, Syracuse, N. Y., assignor to Carrier Corporation, Syracuse, N. Y., a corporation of Delaware
Application August 14, 1947, Serial No. 768,621
1 Claim. (Cl. 62—127)

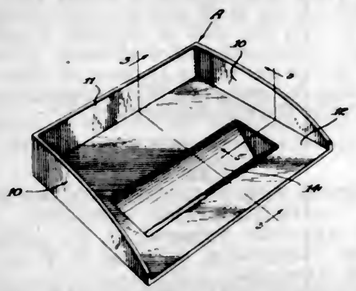


In a refrigeration system, the combination of a compressor, a condenser, an evaporator, and a capillary tube for regulating refrigerant flow to the evaporator, the capillary tube having a diameter less than the diameter of the tube of the evaporator to which it is connected, the end portion of the capillary tube extending within the tube of the evaporator a distance of at least one inch in the direction of flow of refrigerant within the evaporator tube, muffling mechanism comprising the portion of the evaporator tube enclosing said end portion of the capillary tube to muffle noise created by the discharge of refrigerant within the evaporator when the system is in operation, the end portion of the capillary tube placed within the evaporator tube having approximately the same length as the portion of the capillary tube in the same plane without the evaporator tube, and means for supporting the end portion of the capillary tube at approximately its center thereby balancing the capillary tube and eliminating vibration thereof when the system is in operation.

2,590,732
BOOK TRAY
Frank M. Simancik, Detroit, Mich.
Application August 30, 1949, Serial No. 113,193
4 Claims. (Cl. 224—5)

1. A carrier of the character described comprising an open top tray having upwardly extending rims about three edges thereof to facilitate the stacking and carrying of books and other similar articles, the bottom of said tray

provided with an elongated recessed portion disposed substantially parallel with and adjacent to the rimless edge of the tray for receiving and storing pencils, pens and the like, said re-

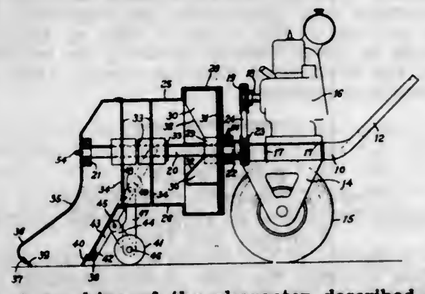


cessed portion providing an arm stop projecting outwardly from the bottom underneath face of the tray for positioning the arm supported area of said tray substantially close to the center of the tray.

2,590,733
MANUFACTURE OF STABLE SUSPENSIONS OF COAL PARTICLES
Albert Leeds Stillman, Plainfield, N. J., assignor to Fuel Research Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 10, 1948, Serial No. 43,546
8 Claims. (Cl. 44—51)

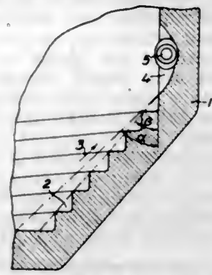
1. The method of preparing a stable suspension of particles of coal in a liquid medium in which such particles ordinarily would be incapable of remaining in suspension, which comprises mixing from 15% to 25%, by weight, of such coal particles of a size not greater than one-half a micron with a hydrocarbonaceous liquid medium capable of producing Brownian movement with such particles, and then when such movement has become sufficiently intense to sustain larger sized particles in such medium, intimately dispersing throughout the mixture particles of such coal greater than one-half micron in size and as large as but not greater than 200 mesh in size until the coal forms from 30% to 60%, by weight, of the coal liquid medium mixture.

2,590,734
LEAF MACHINE
Basil P. Strong, Atwater, Ohio, assignor to Atwater-Strong Company, Atwater, Ohio, a corporation of Ohio
Application December 8, 1945, Serial No. 633,825
9 Claims. (Cl. 55—118)



1. A machine of the character described including a horizontal, cylindrical housing forming a vacuum chamber, an unrestricted suction nozzle communicating with the vacuum chamber said suction nozzle having a cross-sectional area equal to that of the cylindrical vacuum chamber at the point of connection thereto and increasing in area toward the lips of the nozzle, means for moving the machine upon the ground with the nozzle in close proximity to the surface, a centrifugal fan in the vacuum chamber an outlet neck in the housing at one side of the fan and cutting means within the vacuum chamber between the fan and the nozzle for chopping material drawn therein into a pulp before it reaches the fan.

2,590,735
CENTRIFUGAL BOWL FOR SEPARATING SLUDGE FROM LIQUIDS
Nils Edvin Svensjö, Nockeby, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application October 18, 1949, Serial No. 121,965
In Sweden November 23, 1948
2 Claims. (Cl. 233—47)

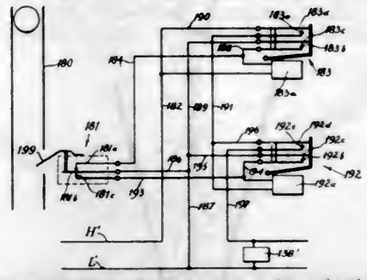


1. In a centrifugal bowl for separating sludge from a liquid, especially sludge having a strong wearing effect, the bowl having a sludge outlet in the bowl wall and also having an inner surface of said wall slanting outward from the bowl axis toward said outlet and along which the separated sludge moves outward in its travel to the outlet, the improvement which comprises a series of annular grooves in said inner surface, each groove forming a pocket extending around the bowl axis transversely to the direction of the sludge movement to said outlet, the grooves being arranged in step form and the steps forming a flight having an inclination to the vertical less than the angle of repose of the separated sludge in the bowl.

2,590,736
DEVICE FOR DISPENSING BOOKS, PACKAGES, AND THE LIKE
William S. Tandler, David S. Walker, and Ferdinand A. de Weiss, New York, N. Y., assignors to Vendomatic Machine Corporation, New York, N. Y., a corporation of Delaware
Application June 12, 1946, Serial No. 676,226
6 Claims. (Cl. 194—10)

4. A dispensing device comprising an electric motor actuated by a source of electrical energy for advancing articles to be dispensed, means for receiving a coin, a double-throw coin-actuated switch adjacent to said coin-receiving means and connected to said source, said switch being movable from a first normally closed position to a second different closed position, a first relay connected to said switch having two pairs of contacts normally closed when said switch is in its first closed position, a circuit connected to said source including one pair of said contacts to energize said first relay and keep

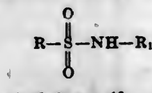
said contacts closed when said switch is in said second position, a second relay having two pairs of contacts, one of the last-mentioned pairs of contacts being connected between said motor and the other pair of contacts of said first relay, said second relay being deenergized when said switch is in said first position and energized to connect said motor to said source of electrical



energy through said other pair of contacts when said switch is in said second position, a circuit including the other pair of contacts of said second relay for retaining said second relay contacts in closed position upon movement of said switch momentarily to said second position and means for disconnecting said first relay from said source to open all its contacts and thereby stop said motor.

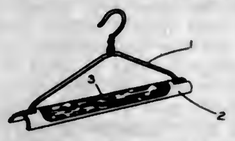
2,590,737
VULCANIZATION OF RUBBER WITH AROMATIC SULFONAMIDE ACTIVATORS
Andrew Tomlin, Hudson, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application July 12, 1949, Serial No. 104,395
16 Claims. (Cl. 260—79.5)

1. The method of vulcanizing a rubber which comprises heating a rubber, sulfur, and a primary organic sulfur containing vulcanization accelerator in the presence of an aromatic sulfonamide of the formula



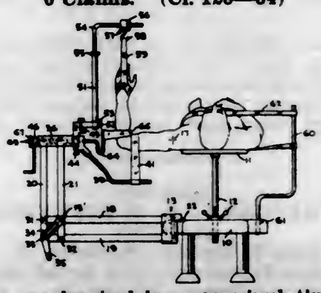
where R is selected from the group consisting of unsubstituted and methyl substituted aromatic hydrocarbon radicals containing not more than 12 carbon atoms and where R_1 is selected from the group consisting of hydrogen atoms and alkyl radicals containing not more than 8 carbon atoms.

2,590,738
SLIP RESISTANT PANTS GUARD FOR COAT HANGERS
William F. Tufts, Atlanta, Ga., assignor to L. M. Leathers Sons, Athens, Ga.
Application June 23, 1948, Serial No. 34,724
1 Claim. (Cl. 223—98)



As an article of manufacture and sale, a pants guard applicable to the horizontal member of a garment hanger of the substantially triangular type, said guard comprising an elongated, substantially straight body of paper material shaped and arranged to extend horizontally along and substantially throughout the length of said horizontal member, the form of said body transversely departing from a plane surface to present an upper garment contacting surface diverging downwardly and outwardly from a central crest extending substantially throughout the length of said guard, and a film of non-sticky, permanently tacky latex material covering a sufficient area of the upper garment-contacting surface of the body to resist free sliding of a garment hanging thereon, the ends of the body at the crest thereof being formed with means to engage the shoulder supporting members of a garment hanger.

2,590,739
ORTHOPEDIC BONE ALIGNING AND FIXING MECHANISM
Hugo Wagner and Roger Anderson, Seattle, Wash.
Application July 26, 1949, Serial No. 106,955
6 Claims. (Cl. 128—84)

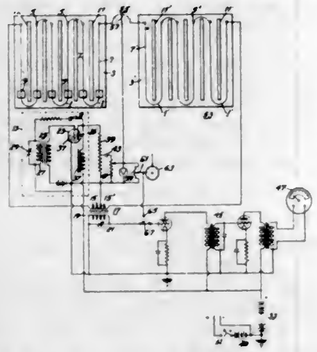


1. In a mechanical bone manipulating device, a fixed pivot support means; first link means pivotally connected at one end portion to said fixed pivot support means and angularly movable in vertical and horizontal planes about said fixed pivot support, said first link means comprising a plurality of spaced links having parallel axes and each mounted independently and pivotally movable in a vertical plane; second link means angularly disposed to said first link means and pivotally connected at one end portion thereof to the other end portions of each of said links of said first link means for movement in the vertical plane of movement of said first link means; a third link means axially parallel to and of a lesser length than said first link means and pivotally connected to the other end portion of said second link means for movement of its axis in the same plane as said second link means, the axes of the pivots of said first, second and third link means being parallel; and patient engaging means connected at one end portion with said third link means and adapted to be connected at its other end portion with the patient at the area of the outer or distal end of a bone of a patient, whereby if the center of articulation of the bone of the patient is aligned with the center of the fourth corner of a parallelogram comprising said first, second and third link means, the device and the said bone of the patient may move together about the center of articulation of the said bone of the patient.

2,590,740
GRAVITY METER
Philip J. Walsh, San Francisco, Calif.
Application February 5, 1945, Serial No. 576,193
8 Claims. (Cl. 73—382)

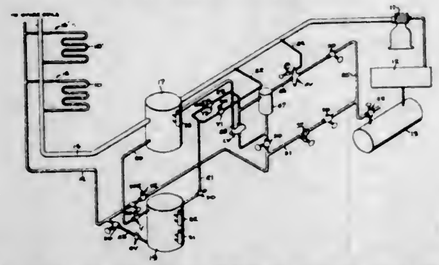
1. A meter sensitive to changes in gravity, comprising a plurality of electrical elements capable

of passing current, independent means associated with each of said elements and responsive to changes in gravity for altering the ability of each of said elements to pass current, means series connecting said electrical elements together to obtain an integrated value of such al-



terations in the ability of said elements to pass current, a source of electrical energy connected to supply said series-connected elements, and indicating means connected to respond to changes in current from said source through said elements.

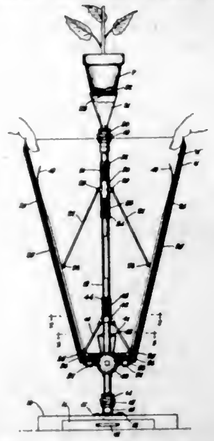
2,590,741
LIQUID RETURN TRAP IN REFRIGERATING SYSTEMS
John E. Watkins, Maywood, Ill.
Application January 24, 1949, Serial No. 72,316
11 Claims. (Cl. 62—3)



5. In a refrigerating system, in combination, a source of liquid refrigerant, a cooling coil, means for supplying liquid from said source to said coil in an amount greater than the coil is capable of evaporating, means for trapping the liquid passing through the coil, a reservoir for receiving and temporarily storing the trapped liquid, said reservoir having a connection with said coil, valve means operable to close off said source of liquid refrigerant from said coil, other valve means operable to introduce vaporized refrigerant from the pressure side of the system into said reservoir to force the liquid therefrom and through said coil, and control means for initiating the operation of both valve means.

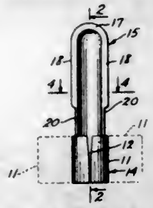
2,590,742
APPARATUS FOR WRAPPING POTTED PLANTS
Henry S. Williams, Sharon, Pa.
Application October 5, 1949, Serial No. 119,675
8 Claims. (Cl. 226—18)

4. A potted plant wrapping device including a base, a column detachably supported on the base, a head detachably mounted on top of the column, a pot supported on said head, a pair of spreader bars spaced entirely above the base, means on the column below said head yielding supporting said bars in extended V position, and a plurality of nested tapered tubular wrappers supported in



substantially flat folded condition around and engaging said bars in position to be successively pulled upwardly around successive pots supported on the head, the lower ends of said wrappers being dimensioned to fit tightly around the lower portions of said pots.

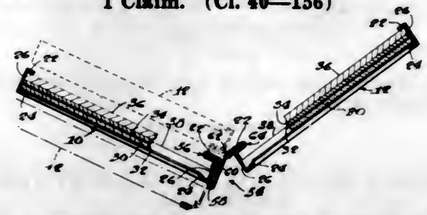
2,590,743
SOUND MAKER FOR TOYS AND OTHER DEVICES
George Wintriss, Summit, N. J., assignor to Wintriss Inc., New York, N. Y., a corporation of New York
Application June 24, 1949, Serial No. 101,015
5 Claims. (Cl. 46—180)



1. A sound maker comprising a one-piece channel element having an edge extending longitudinally along the top of each side of the channel, and having one end shaped to close the end of the channel, and having the other end of the channel open and formed with upward projections that extend for a short longitudinal distance adjacent to and back from the open end of the channel, the upward projections having their upper portions bent inward toward one another to form, with the part of the channel beneath them, a tubular end portion beyond the channel edges and located partly above and partly below said edges, the tubular end portion comprising an open seam tube with a seam having at least a longitudinal component extending in the direction of the channel element and at a location above said edges so that the diameter of the tubular portion can be compressed by bending the projections further inward to fit a holder and to retain the channel in place by friction of the tubular portion against the holder, a reed se-

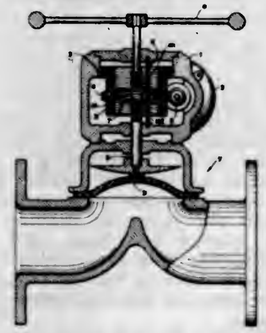
cured to the channel element adjacent to the tubular end portion, and a partition formed by a bent-up end of the reed and covering the cross section of that part of the tubular end portion which extends above the reed.

2,590,744
FRAME FOR PHOTOGRAPHS AND PICTURES
Glen P. Woodbury, Reading, Mass.
Application August 16, 1949, Serial No. 110,539
1 Claim. (Cl. 40—156)



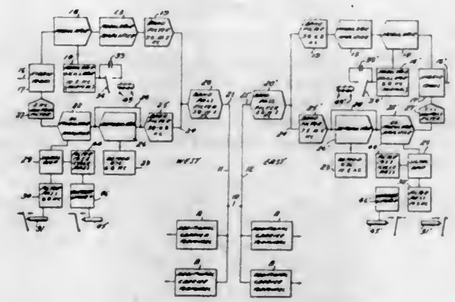
A multiple unit frame for photographs and pictures comprising a plurality of single frame sections having inwardly flanged marginal edges, and a connecting element detachably engaging the adjacent flanged marginal side edges of two adjacent single frame sections to form a multiple frame unit, said connecting element comprising a double hinged member having a pair of flaps formed to provide sockets adapted to slidingly and frictionally engage the rear flanges of said marginal side edges, and an intermediate flap connecting said pair of flange engaging flap members, the pivots of said double hinged member being disposed substantially in alignment with the front and rear faces respectively of said frames to permit swinging of the sections either forwardly or backwardly relative to each other.

2,590,745
SCREW AND NUT MECHANISM
Guido Wüensch, Berlin, Germany
Application September 23, 1950, Serial No. 186,373
In Germany October 29, 1949
9 Claims. (Cl. 74—424.8)



1. A positioning device for a regulator such as a control valve, comprising a generally piston-shaped member; a hollow, generally cylinder-shaped member concentrically surrounding the piston member, slightly radially spaced therefrom and appreciably longer than the same; exterior and interior screw threads on the piston and cylinder members, respectively; bearing balls disposed along a substantial length of the screw threads and adapting one of said two members to rotate with respect to the other with insignificant friction; a bearing ball return channel in the piston member, interconnecting the ends of said length of the screw threads in the piston member; means to slowly rotate one of said two members and to restrain it from axial motion; means to restrain rotation of the other member, whereby the slow rotation of the rotatable member enforces an extremely slow axial motion of the non-rotatable member; and a stem secured to the non-rotatable member, adapted to position the movable part of the regulator.

2,590,746
CONTROL SYSTEM FOR CARRIER TELE-COMMUNICATION CIRCUITS
Lee E. Adler, Dallas, Tex.
Application September 10, 1948, Serial No. 48,726
12 Claims. (Cl. 179—15)

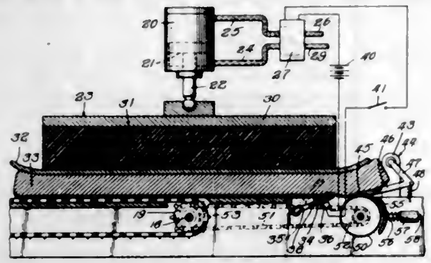


1. In a normally suppressed two-way carrier system having an assigned frequency band for signalling in one direction and a different assigned frequency band for signalling in the opposite direction, and providing a plurality of auxiliary signalling channels within each of said frequency bands; a carrier terminal including: a transmitting circuit comprising an output circuit, a carrier frequency oscillator having a tuned circuit, a modulator interposed between said oscillator and output circuit, switching means for supplying the frequency of said oscillator to said modulator, and a modifying circuit for said tuned circuit comprising switching means for supplying to said modulator a frequency differing from said carrier frequency by a value less than one of said assigned frequency bands; a receiving circuit comprising an input circuit, a demodulator oscillator generating a frequency differing from said carrier frequency by not less than the width of one of said bands, a demodulator interposed between said demodulator oscillator and input circuit, a demodulator output circuit, selective filters in said output circuit, and signal responsive devices connected with said filters respectively.

2,590,747
METHOD AND APPARATUS FOR REMOVING SKIN FROM FLESHY PRODUCTS
Clarence Birdseye, Gloucester, Mass., assignor to Eleanor G. Birdseye, Gloucester, Mass.
Application March 4, 1949, Serial No. 79,708
3 Claims. (Cl. 146—130)

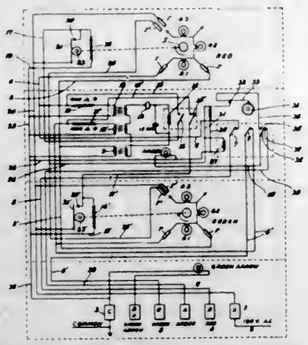
1. Apparatus for severing the skin from a fleshy product comprising a bed, a presser shoe above the bed, means for pressing the shoe against the product on the bed, a knife above the bed for severing the skin from the product, a conveyor located on one side of the knife for moving the product along the bed and against the knife, a switch on the bed operated by the product for actuating the pressing means, a skin

grip roll rotatably mounted on the other side of the knife, and a resiliently mounted shoe for



pressing the severed skin into engagement with the skin grip roll.

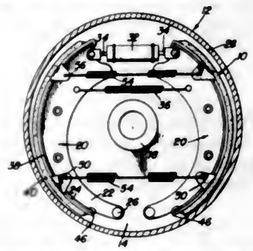
2,590,748
ELECTRIC CIRCUIT FOR CONTROLLING TRAFFIC SIGNALS
Ovila Joseph Blanchet, New Bedford, Mass.
Application November 12, 1947, Serial No. 785,380
5 Claims. (Cl. 177—337)



1. An energizing electric circuit comprising a device for consuming electric current, a movable support for the device, supply conductors leading to said device, a relay circuit associated with said circuit, an electric motor, a circuit therefor connected to the relay circuit, means connected to said supply conductors for maintaining said relay circuit inoperative except upon failure of said device, the motor being coupled to the support, a switch in said relay circuit to connect said conductors to said motor circuit upon operation of the relay to cause the motor to actuate the support, another circuit leading to said motor, and means operated by said motor to close said other circuit when the relay opens and the motor stops.

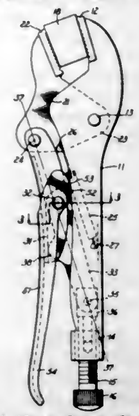
2,590,749
FASTENING DEVICE FOR BRAKE LININGS
Jerry M. Buccino and Julius J. Buccino, Canoga Park, Calif.
Application February 17, 1950, Serial No. 144,696
3 Claims. (Cl. 188—234)

1. In a vehicle brake assembly including a backing plate, brake shoe guides on said backing plate, a pair of brake shoes movably mounted on said plate in sliding engagement with said guides, a brake lining replacement unit comprising a pair of arcuate bands having a lining attached to the convex surface thereof, brake shoe engaging hooks on one longitudinal edge and on the ends of said bands, a tab on the other edge of each of said bands overlying the edge of the brake shoes, a spring terminally attached to the registering tabs of opposed brake bands yield-



ingly urging said bands into engagement with the brake shoes.

2,590,750
RELEASE MEANS FOR TOGGLE-ACTUATED WRENCHES
Bruce Burns, Yucca Valley, Calif.
Application June 1, 1948, Serial No. 30,335
3 Claims. (Cl. 81—84)

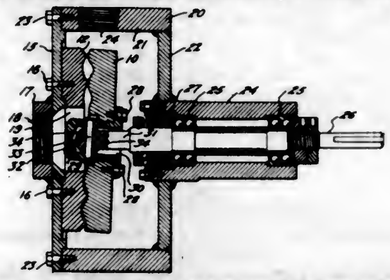


3. A wrench of the class described comprising pivotally connected stationary and movable jaws, the stationary jaw being provided with a handle, toggle mechanism connected with the movable jaw and having for one of its components a lever movable toward and from the handle of the stationary jaw, and an extension piece arranged exteriorly of the lever and pivotally connected at its forward end to the lever intermediately of the ends thereof and engaging said lever and extending rearwardly therefrom and forming a handle arranged opposite the handle of the stationary jaw and adapted to be grasped simultaneously with the same for moving the lever inwardly for closing the jaws, said extension piece being also movable away from the handle of the stationary jaw and having means engageable with the same to forcibly retract the lever away therefrom.

2,590,751
FLAT ROTARY PUMP
Frederick Cameron Byram, New Carlisle, and Sheldon S. L. Chang, Springfield, Ohio, assignors to Robbins & Myers, Inc., Springfield, Ohio, a corporation of Ohio
Application April 29, 1950, Serial No. 159,078
8 Claims. (Cl. 103—133)

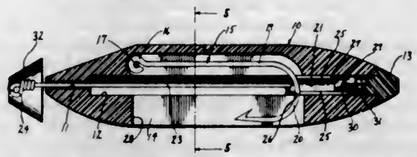
1. A pump comprising a pair of pumping elements, a universal joint, one of said elements having a single spiral thread and the other of

said elements having a double spiral thread, said threads progressing outwardly from their respective axes, one of said elements being fixed, and the other having its axis at an angle to the axis of the first, and being rotationally driven through



said universal joint, whereby said driven element will turn in one direction about said tilted axis while said axis of tilt is mutating in the opposite direction, said pumping elements being enclosed within a casing having intake and exhaust ports.

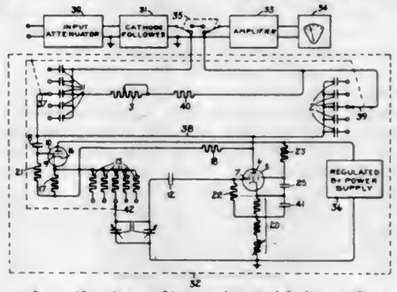
2,590,752
FISHING PLUG
Harold Dwight Chaffee, Bedford, Ohio
Application May 27, 1950, Serial No. 164,795
6 Claims. (Cl. 43—37)



1. A fishing plug, comprising: body means, having a longitudinal opening; hook means pivotally carried by said body means and shiftable from a position generally protected by said body means to a position extended from said body means, said hook means having a portion extending from its pivot to its barb portion; and actuator means slidable along said longitudinal opening and having a slot extending therethrough and through which said extending portion of said hook extends, the opposite terminal ends of said slot having cam relation with said extending portion, the respective ends being operable to move said hook means from one position to another upon movement of said actuator means in a respective direction, and to hold said hook means in such other position.

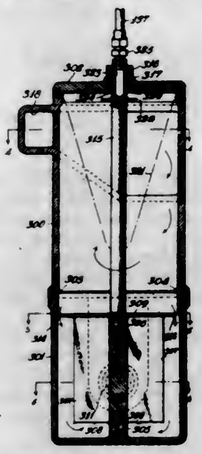
2,590,753
REACTANCE TUBE CIRCUIT
Charles W. Clapp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 23, 1948, Serial No. 22,818
6 Claims. (Cl. 178—44)

1. A reactance-tube circuit for simulating a reactance between a reference point and a second point having an alternating voltage thereon, said circuit comprising a cathode follower discharge device with a control electrode, means for supplying the alternating voltage at said second point to said control electrode whereby substantially the same voltage appears on the cathode of said discharge device, phase shifting means connected to said cathode for providing a voltage shifted in phase from said cathode voltage, means to apply said phase shifted voltage to the control electrode of a second discharge device, an anode in said second device, an impedance in the anode circuit of said second device, means for furnish-



ing said cathode voltage to said impedance remote from said anode, and alternating current conductive means connecting said anode to said second point.

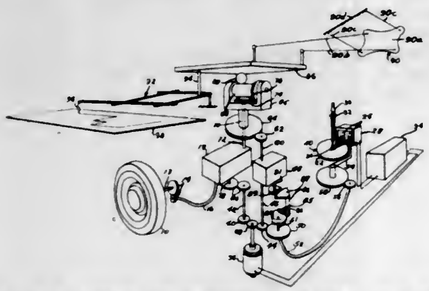
2,590,754
DEAERATING APPARATUS
Edwin L. Cline, Pasadena, Calif., assignor to Clayton Manufacturing Company, Alhambra, Calif., a corporation of California
Original application August 30, 1943, Serial No. 500,591. Divided and this application October 26, 1945, Serial No. 624,892
10 Claims. (Cl. 183—2.5)



1. A deaerating device comprising an upper cylindrical section; a lower cup-like section; a cap forming a closure for the upper end of said cylindrical section, said upper cylindrical section having an inlet duct discharging tangentially into the interior of said section, whereby liquid introduced through said inlet duct has a rapid whirling motion imparted thereto to remove the air therefrom, said lower cup-like section having an axial core and a plurality of radial vanes extending outwardly from said core and merging with the inner surface of the side wall of said lower cup-like section, said radial vanes terminating short of the bottom of said lower cup-like section; a circular baffle plate resting upon said core and the upper edges of said radial vanes, said baffle plate being smaller in diameter than the internal diameter of said lower cup-like section, whereby to provide arcuate passageways for liquid between said upper and lower sections; a portion of the side wall of said lower cup-like section being thickened and projecting inwardly to a point underlying said circular baffle plate; an outlet open-

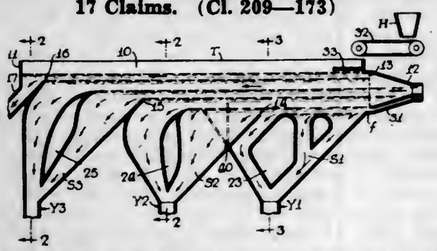
ing extending through said thickened wall portion, whereby liquid is prevented from passing directly from said upper cylindrical section to said outlet opening; a rod extending through said cap and having a reduced end extending through said circular baffle plate and threaded into said axial core of said lower section, the upper end of said rod projecting through said cap member and being externally threaded; a nut threaded upon said projecting end of said rod and clamping said upper and lower sections and said cap member together, a plurality of vent openings in said rod communicating with the interior of said upper section at a point adjacent the inner surface of said cap; and a passageway in said rod extending upwardly from said vent openings.

2,590,755
MAPPING DEVICE
Raymond T. Cloud, Houston, Tex., assignor to North American Geophysical Company, Houston, Tex., a corporation
Application December 7, 1946, Serial No. 714,876
14 Claims. (Cl. 346—8)



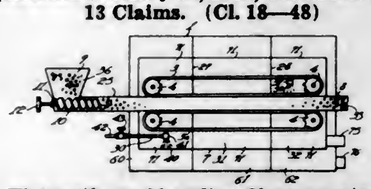
1. In a device for mapping the path of a moving object, a movable marker, means for moving said marker in a reduced scale path corresponding to the path of the moving object, an elongated recording sheet, means for supporting a portion of said sheet in cooperating relation with said marker, and angularly variable adjustment means on said support means to selectively vary the angular position of said supporting means with respect to said marker, whereby the length axis of said recording sheet may be maintained in general alignment with the expected general direction of movement of the object.

2,590,756
ART OF MINERAL SEPARATION
Jules Colin, Richard Burr, and André Gafanesch, Mulhouse, France, assignors to Mines Domaniales de Potasse d'Alsace, Mulhouse, Haut Rhin, France, a corporation of France
Application March 19, 1947, Serial No. 735,568
In France May 10, 1946
17 Claims. (Cl. 209—173)



16. Separating equipment comprising an elongated shallow tank, means for delivering liquor thereinto from one end thereof, means for depositing the particles to be separated upon said liquor near said end, a sequence of sumps protruding downward from the tank, the mouths of the sequence of sumps occupying substantially the entire length and width of the tank, said sumps extending to progressively higher levels in the tank, and suction means connected to the lower ends of the several sumps to effect concurrent propulsion of the liquor with its entrained particles and withdrawal of the corresponding fractions from the stream.

2,590,757
CORK BONDING PROCESS
Charles L. Cornelius, Jr., and Frank H. Cornelius, Shade Gap, Pa.
Application January 25, 1946, Serial No. 643,440
13 Claims. (Cl. 18—48)



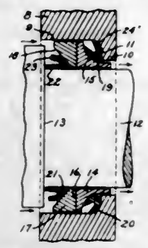
1. The method of bonding fibrous material particles containing moisture and natural resin binder into a predetermined shape, comprising, consolidating said fibrous material particles into a mould to shape and compress the material, enclosing said mould in an oven, heating said oven to generate at atmosphere of superheated steam and vapors of said resin binder, recirculating said atphere through said fibrous material within the oven, and cooling said fibrous material to the setting temperature of the resinous binder while recirculating said atmosphere through the fibrous material.

2,590,758
MACHINE FOR HANDLING POTATO VINES
Eben D. Dahlman, Grandy, Minn.
Application April 7, 1948, Serial No. 19,518
2 Claims. (Cl. 55—66)



1. A machine for lifting and conveying potato vines having in combination, a pair of spaced forwardly directed substantially conical members having their adjacent sides converging and having their front ends adapted to enter the ground at the sides respectively of the vines and their rear ends above the ground and their front ends slightly below the surface of the ground and well above the potatoes, ground-engaging means for supporting said machine and members, a pair of comparatively wide endless belts having adjacent sides moving rearwardly, said sides having forward portions of considerable length disposed in rearwardly converging vertical planes having the rear portions in close proximity and adjacent said ground-engaging means for gripping and moving said vines upwardly and rearwardly, said machine having a platform in the rear of said belts for receiving said vines, and a plate extending downwardly and forwardly from said platform longitudinally and centrally of said machine and beneath the adjacent sides of said belts, said plate extending to adjacent the ground whereby vines will be carried upwardly along said plate.

2,590,759
ROTARY SEAL
Vernon F. Dale and George Reed, Onalaska, Wis., assignors to The Bump Pump Co., La Crosse, Wis., a corporation of Wisconsin
Application July 3, 1950, Serial No. 171,894
3 Claims. (Cl. 286—11.13)



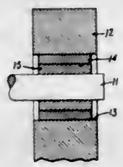
3. In a rotary seal, a casing having a bore and an inwardly extending surface at one end of the bore, a shaft extending centrally through said bore beyond said end surface and having thereon an outwardly extending end surface substantially closing the end of said bore remote from said casing end surface, a pair of rigid sealing rings loosely slidably confined within said bore between said end surfaces and having adjoining sealingly engaging surfaces disposed perpendicular to the shaft axis, said shaft end surface and said rings being separated from said bore by annular clearance spaces and one of said rings having an outer annular tapered surface intersecting an outer cylindrical surface adjacent to said casing end surface while the other has an inner annular tapered surface intersecting an inner cylindrical surface adjacent to said shaft end surface, a relatively stiff but flexible ring interposed between said casing end surface and said outer tapered surface and having flanges distortable by fluid passing through both of said clearance spaces against said casing end and tapered surfaces, and another relatively stiff but flexible ring interposed between said shaft end surface and said inner tapered surface and having flanges distortable by fluid passing through one of said clearance spaces against said shaft and inner cylindrical surface.

2,590,760
RESIN MADE FROM TANNIN, SULFURIC ACID, ACETONE, AND POTASSIUM CYANIDE
Vinicio Da Veiga, Sao Paulo, Brazil
No Drawing. Application April 27, 1948, Serial No. 23,616
17 Claims. (Cl. 260—31.8)

1. The steps of heating in a closed vessel with 78 parts by weight of acetone and 42 parts by weight of cyanide of potassium the product of digesting 2 parts of tannin by weight in 150 parts by weight of concentrated sulphuric acid, and then adding sufficient tannin to restore the tannin to the amount originally present.

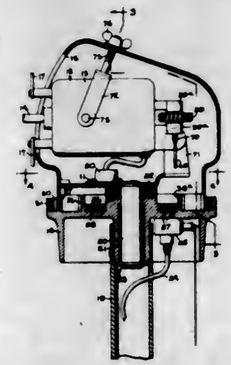
2,590,761
BEARING
Robert F. Edgar, Pattersonville, N. Y., assignor to General Electric Company, a corporation of New York
Application March 17, 1948, Serial No. 15,389
4 Claims. (Cl. 308—237)

4. A sleeve bearing assembly comprising a steel shaft, a sleeve of Invar tightly pressed thereon to be rotatable with said shaft, a molded body of carbide material tightly pressed over said sleeve to be rotatable therewith, said molded body



having an outer periphery adapted to form a journal-bearing surface, and an outer housing having an inner periphery adapted to form a mating bearing surface for supporting said shaft.

2,590,762
FAN OSCILLATING MECHANISM
Kenneth A. Ellis, Evansville, Wis.
Application August 14, 1948, Serial No. 44,302
10 Claims. (Cl. 230—256)

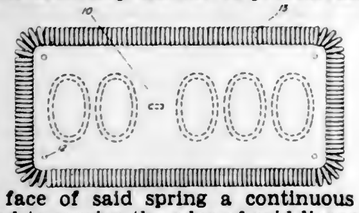


1. In a fan having a stationary base, a housing rotatably mounted on said base and a motor supported within said housing and rotatable therewith, an oscillating mechanism comprising, in combination, a pair of circular racks concentrically disposed on said base, a pinion driven by said motor, a shifting lever pivotally mounted on said housing and rotatably supporting said pinion, and means automatically operable to swing said lever between alternative positions to mesh said pinion with either of said racks, for rotating said housing and motor with respect to said base, said means including a tripping lever pivotally supported on said housing, a snap spring interposed between said shifting lever and said tripping lever, and limit elements on said base determining an arc of oscillation and engageable by said tripping lever to pivot the same and compress the spring until a dead center relation is passed so that said spring becomes operative to swing said shifting lever.

2,590,763
TRIMMING FOR LICENSE PLATES
Claude C. Floyd and James H. Narron, Arlington, Va.
Application November 4, 1949, Serial No. 125,535
9 Claims. (Cl. 40—125)

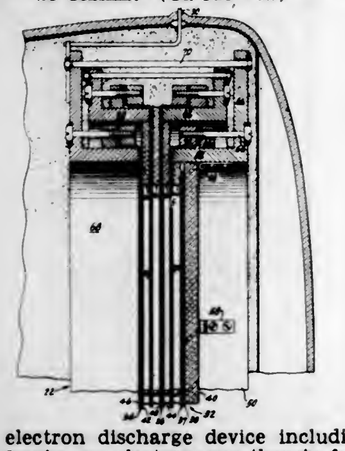
1. A trimming frame for a license plate which consists of an endless spiral spring having in each

loop thereof a regular indentation at the same point in each loop thereof to provide along the



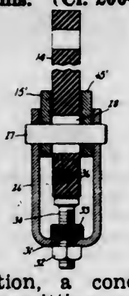
inner face of said spring a continuous groove adapted to receive the edge of said license plate.

2,590,764
COLOR TELEVISION IMAGE TUBE
Stanley V. Forgue, Cranbury, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 23, 1950, Serial No. 145,861
23 Claims. (Cl. 313—92)



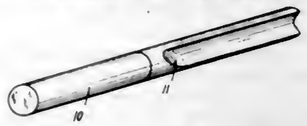
1. An electron discharge device including an envelope having an electron-gun therein for projecting a beam of electrons along a beam-path, and a plurality of electrodes positioned in the path of said beam and including, in succession, a multi-apertured target electrode having a fluorescent coating on its surface oppositely disposed from said gun, a control electrode adjacent the coated side of said target electrode, and a fluorescent screen adjacent to said control electrode on its other side from said target electrode.

2,590,765
OPERATING ROD FOR ELECTRIC SWITCHES
Edward J. Frank, Springfield, and Cyril W. Driver, Secane, Pa., assignors to General Electric Company, a corporation of New York
Application August 16, 1950, Serial No. 179,702
7 Claims. (Cl. 200—166)



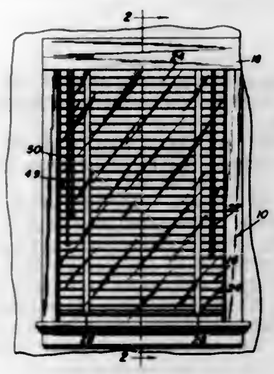
1. In combination, a conducting operating lever, a thrust-transmitting coupling member pivotally connected with the lever, an operating thrust rod formed of insulating material having one elongated end thereof projecting transverse the operating lever in predetermined spaced-apart relationship with the thrust-transmitting member, and means for rigidly connecting the projecting end of the rod with the thrust-transmitting member.

2,590,766
METHOD OF FORMING TOOL BLANKS
Thomas F. Githens, Cleveland Heights, Ohio, assignor to The Cleveland Twist Drill Company, Cleveland, Ohio, a corporation of Ohio
Application January 22, 1949, Serial No. 72,220
3 Claims. (Cl. 76—108)



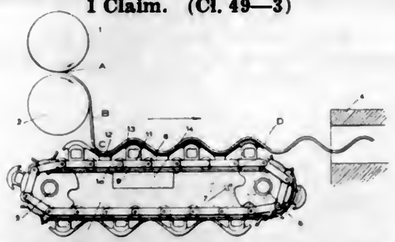
2. The method of forming a fluted tool blank which comprises providing an elongated bar having longitudinally extending flutes and a cross-section which is roughly the same as the cross-section of the fluted tool to be formed; severing such bar into work pieces each slightly shorter than the length of the tool to be formed; heating and upsetting one end only of each of said work pieces into cylindrical form; and welding to such upset end in end-to-end relation a substantially cylindrical bar which together with the upset end of the work piece constitutes the shank of the tool blank.

2,590,767
VENETIAN BLIND PROTECTOR
Mary Agnes Guarino and Arthur Attilio Guarino, Brooklyn, N. Y.
Application May 22, 1950, Serial No. 163,427
3 Claims. (Cl. 160—34)



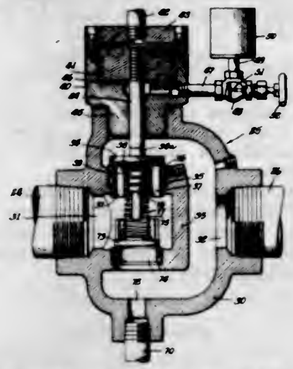
1. In a Venetian assembly including a tilt slat and a lower slat, a cover of flexible material having front and rear panels and side panels, a bottom panel secured to said lower slat, and notches in the upper side portions of the front and rear panels defining fastening strips at the upper ends of said front and rear panels, said strips being secured to said tilt panel to support the cover on the blind.

2,590,768
APPARATUS FOR CONTINUOUSLY PRODUCING CORRUGATED GLASS SHEETS
Roger Guilleminot, Paris, and René Guilleminot, Quievrechain, France
Application August 21, 1947, Serial No. 769,868
In France May 13, 1947
1 Claim. (Cl. 49—3)



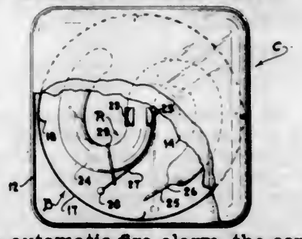
A device for the continuous production of corrugated glass sheet which comprises a pair of feed rollers adapted to continuously feed rolled glass sheet, an endless chain beneath said rollers, a plurality of interpivoted alternately concave and convex elements supported by said chain, said elements being adapted to lie in juxtaposed relationship throughout the horizontal reach of said chain to form a continuous undulated surface and to be separated away from one another at the end of said chain.

2,590,769
BACK-PRESSURE VALVE FOR HYDRAULIC MACHINE TOOLS
Rudolph E. Herrstrum, Rockford, Ill., assignor to Rockford Machine Tool Company, Rockford, Ill., a corporation of Illinois
Application August 30, 1943, Serial No. 500,545
2 Claims. (Cl. 137—153)



1. A back pressure valve comprising a valve casing having an inlet and an outlet, a partition disposed between the inlet and outlet with an opening in said partition, a valve seat removably secured in said opening having a plurality of ports and a central guideway between said ports, a valve member dimensioned to seat over said ports and having a central stem slidably fitted in said guideway, and pressure means yieldingly urging said valve member toward seated position including a piston in a cylinder, a piston rod extending between said piston and said valve, a liquid supply connected to the piston rod end of said cylinder and means forming a restricted orifice for the passage of liquid between said source of supply and said cylinder, said partition having a return port in axial alignment with said valve, a second valve for said return port, a spring normally seating said second valve reacting between the same and under side of the seat of the first valve, and means for connecting a fluid under pressure with the interior of said valve casing on the outlet side of the partition.

2,590,770
AUTOMATIC FIRE ALARM
Alfred Hirschle, Philadelphia, Pa.
Application April 4, 1950, Serial No. 153,811
12 Claims. (Cl. 116—106)



1. In an automatic fire alarm, the combination of: a bell having a wall from which projects a tab, a pivotally mounted rotor including a clapper adapted to engage said tab to sound the bell, a container for gas under pressure included as a part of said rotor for causing rotation thereof, and means releasing said gas from said container causing rotation of said rotor.

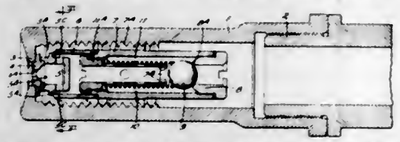
2,590,771
POLYMERIZATION BY MEANS OF STANNIC CHLORIDE AND A PROMOTER THEREFOR
Thomas E. Jordan, Philadelphia, and Edwin L. Cline, Pittsburgh, Pa., assignors to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
No Drawing. Application May 8, 1948, Serial No. 25,988
13 Claims. (Cl. 260—81)

6. A process for producing paracoumarone resin from oil formed during the distillation of coal which comprises introducing into a fraction of such oil boiling within the range of 150° to 205° C., which fraction contains indene, substantially anhydrous stannic chloride catalyst and a catalyst modifier comprising an organic compound containing not more than 8 carbon atoms in the molecule, said compound being selected from the group consisting of (*a*) saturated aliphatic primary monohydroxy alcohols, furfuryl and benzyl alcohols and (*b*) saturated aliphatic aldehydes and aromatic aldehydes, the amount of stannic chloride being within the range of .25% to 1% based on the volume of the oil and the amount of said organic compound being within the range of 0.05 to 0.5 per cent by volume based on the oil and not exceeding 50 per cent by volume based on the stannic chloride.

2,590,772
LIQUID FUEL BURNER AND THE LIKE
John Ruskin Joyce, Wimbledon, London, England, assignor to Power Jets (Research & Development) Limited, London, England, a corporation of Great Britain
Application September 5, 1945, Serial No. 614,450
In Great Britain June 11, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires June 11, 1963
5 Claims. (Cl. 299—118)

1. A liquid fuel burner comprising means defining a vortex chamber having a central frusto-

conical portion leading to a cylindrical discharge orifice at its apex end and leading from a cylindrical portion at its base end, two sets of swirl ports discharging into said chamber, each set comprising a plurality of ports symmetrically disposed about the axis of the vortex chamber a first set of said ports being located in a plane immediately adjacent the plane of the base of the frustoconical central portion of the vortex chamber and a second set of said ports being



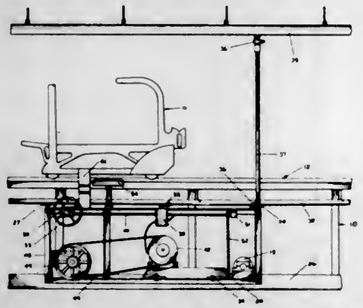
located in the cylindrical portion of said vortex chamber in a plane more remote from said discharge orifice than said first set, a common fuel supply chamber, separate conduits leading from said common supply chamber to each of said sets of ports and a normally closed valve in the conduit leading to said second set of ports, said valve being exposed to the pressure of said supply chamber and opening in response to the attainment of a predetermined pressure therein.

2,590,773

DRIVE FOR CLOTH SPREADING MACHINES

Mortimer Ronald Katz, Montreal, Quebec, Canada

Application June 19, 1948, Serial No. 33,960
3 Claims. (Cl. 105—144)



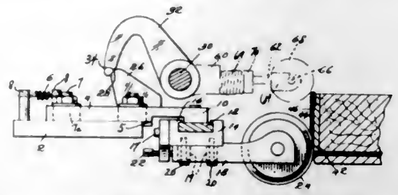
1. In a drive for cloth spreading machines, a cutting table, a cloth spreading machine movably supported on said cutting table, an upper rail and a lower rail fixedly located with respect to one side of said cutting table, a carriage comprising a pair of supporting wheels and a pair of retaining wheels, said supporting wheels being rotatably journalled to the lower portion of said carriage at the inside thereof and adapted to travel on said lower rail, said retaining wheels being rotatably journalled in a horizontal plane to the upper portion of said carriage at the inside thereof and adapted to engage said upper rail, a motor mounted on said carriage and suitably connected to an electric power source, an operator's seat supported on said carriage, a drive pulley fixedly secured on the shaft of said motor, a speed reducer unit, a driven pulley fixedly mounted on the shaft of said speed reducer unit, a belt connecting said drive pulley and said driven pulley, means connecting said speed reducer unit with one of said supporting wheels thus providing a means of moving said carriage with respect to said upper rail and said lower rail, a controller connected to said motor, a mechanical speed controller mounted on said carriage and suitably connected to said motor, and said mechanical speed controller being manually operated by an attendant riding on said seat.

2,590,774

BOX CUTTING ATTACHMENT FOR PAPER BOX MACHINES

Harry Keller, Philadelphia, Pa.

Application March 16, 1950, Serial No. 150,038
9 Claims. (Cl. 164—61)



1. A cutting attachment for a paper box machine, comprising in combination with a vertically reciprocable form for moving the box up and down in a vertical path, a slidably mounted cutter for slitting a wall of the paper box, and means, including a cam and a spring, for moving said cutter into and out of cutting engagement with the box, said cutter acting when in engagement with the box to cut the wall of the box as the box is moved by said form past said cutter.

2,590,775

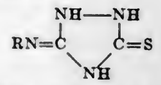
SILVER HALIDE EMULSION CONTAINING A THIO-IMINO-URAZOLE AS A STABILIZER

John David Kendall and Douglas James Fry, Ilford, England, assignors to Ilford Limited, Ilford, England, a British company

No Drawing. Application April 11, 1950, Serial No. 155,356. In Great Britain April 11, 1949
12 Claims. (Cl. 95—7)

2. A method of improving photographic silver halide emulsions in regard to the quality of the images developed therein which comprises developing such emulsions in a developing bath which contains a small quantity of 3-thio-5-iminourazole.

5. A photographic element which includes a silver halide photographic emulsion layer and in contact therewith uniformly throughout, a small quantity of a heterocyclic compound of the general formula:



where R is selected from the class consisting of the hydrogen atom and hydrocarbon groups.

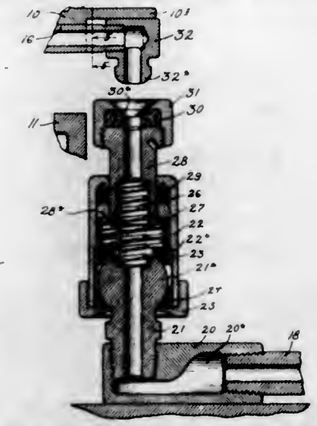
2,590,776

JOINT FOR MOLDS

Henry S. Kuhn, Park Ridge, Ill., assignor to Francis N. Bard

Application September 4, 1947, Serial No. 772,108
2 Claims. (Cl. 285—11)

1. Fluid joint means for connecting a stem of a tire mold bag to a fixed conduit, said means comprising a ball portion secured to the fixed conduit, a housing part receiving the ball in one end thereof, a conduit section telescopically mounted in the other end of said housing part and connected to the ball portion thereby, spring means between the ball portion and said telescopically mounted conduit section for urging the telescopically mounted conduit section toward extended relation, the stem having a connector part for engagement with a part of the telescopically mounted conduit section, one of said two last mentioned parts having a nipple portion and the other having a resilient portion with a generally



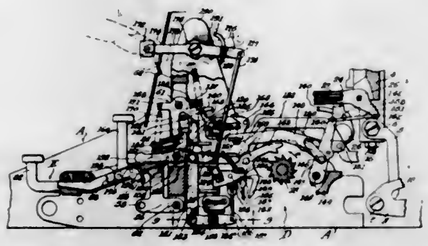
conical cavity adapted to receive the nipple portion, said entire joint means providing a construction whereby when the stem is pressed into engagement with the telescopically mounted section the connection adjusts itself axially and angularly to obviate any leakage between the stem and the end of the telescopically mounted section.

2,590,777

CASE SHIFTING MECHANISM AND REPEAT TYPING MECHANISM FOR POWER-OPERATED TYPEWRITERS AND LIKE MACHINES

William H. Kupper, West Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York

Application December 16, 1949, Serial No. 133,322
31 Claims. (Cl. 197—17)



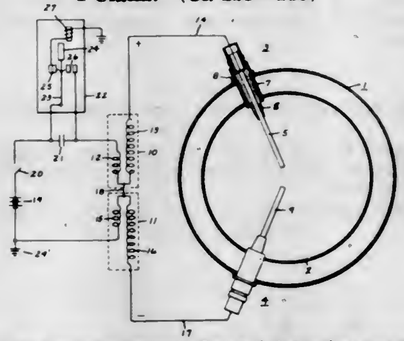
1. In a power operated typewriting or like machine, a case shift element; a power driven member; a case shift actuator; means connecting said actuator to said element; a shift key; means operable by said key for effecting driving of said actuator and said element to shifted positions by said member; a retaining device movable from a normally inactive position to a position of engagement with said actuator in which position said device is adapted to be held for retaining said actuator in its shifted position; a holding part movable from a normally inactive position towards a position of engagement with said retaining device in which position said part holds said device in retaining engagement with said actuator; and means associated with said key and normally maintaining said holding part out of operative engagement with said retaining device but being movable by said key to release said holding part and enable retaining device when said key is in actuated it to move into holding engagement with said position.

2,590,778

DUAL PLUG IGNITION SYSTEM

Elmer W. Lautenberger, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 6, 1950, Serial No. 172,337
1 Claim. (Cl. 123—148)



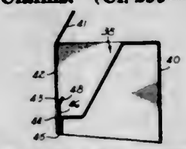
In an ignition circuit for a jet engine combustion chamber, a pair of separate single-electrode spark plugs adapted to project into said chamber in opposing relation to define a spark gap therebetween, each said plug including means insulating the plug electrode from said chamber and the external ends of said plug electrodes being widely spaced apart, a pair of separate ignition transformers each having a low voltage primary winding and a high voltage secondary winding, a common connection connecting said primary windings and said secondary windings respectively in back-to-back series circuit relation thereby to provide at opposite ends of said secondary windings instantaneous voltages of opposite polarity, means grounding said windings at a point electrically adjacent said common connection, and a pair of insulated high-voltage lead wires positioned remotely with respect to each other and connecting said opposite ends of said secondary windings to said plug electrodes respectively, whereby said plug electrodes are supplied with voltages of opposite polarity with respect to ground and the voltage applied across said gap is substantially greater than the line-to-ground voltage at any part of said circuit.

2,590,779

WATER DISTRIBUTING APPARATUS FOR EVAPORATIVE COOLERS

Valentine C. Lehmann, Burbank, Calif., assignor to Utility Appliance Corp., Los Angeles, Calif., a corporation of California

Application November 12, 1948, Serial No. 59,624
2 Claims. (Cl. 299—58)



1. In an apparatus for distributing a liquid, a reservoir having an upwardly extending wall

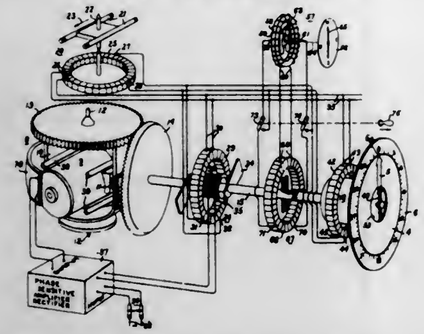
of relatively thin, sheet material, said wall being deformed inwardly into said reservoir along horizontally spaced lines which extend upwardly from the lower edge of said wall to provide a plurality of horizontally spaced, upwardly extending indentations which serve as channels for conducting liquid downwardly to the lower edge of said wall, said wall being provided with a plurality of horizontally spaced, discharge openings therein at the upper ends of said indentations, respectively, said discharge openings overlapping said indentations so that the lower edges of said discharge openings are deformed inwardly into said reservoir, said discharge openings being formed by bending portions of said wall at the upper ends of said indentations inwardly into the interior of said reservoir, said portions of said wall being bent inwardly along the lower edges thereof.

2,590,780

COMPASS CONTROLLED DIRECTIONAL GYRO

Edward E. Lynch, Wakefield, Mass., assignor to General Electric Company, a corporation of New York

Application April 11, 1947, Serial No. 740,827
4 Claims. (Cl. 33—222)



1. In combination, a directional gyro, a magnetic compass remote from said gyro and comprising a rotatable compass magnet, electrical synchronizing means responsive to the relative azimuth positions of said gyro and said compass magnet for precessing said gyro into correspondence with said compass, a first horizontal shaft having one end coupled to said gyro, a planar vertically arranged gyro indicator connected to said first shaft to indicate azimuth heading, a second shaft mounted for rotation on the other end of said first shaft, the axes of said shafts being concentric, an electrical position transmitting system connected to rotate said second shaft in angular correspondence with said compass magnet, and a planar correspondence indicator mounted on said second shaft to rotate therewith, said gyro and correspondence indicators being adjacent and coplanar to permit angular comparison of their indications.

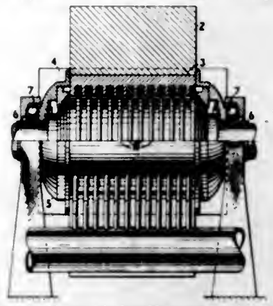
2,590,781

ABSORPTION DYNAMOMETER

Peter Martin, Leicester, England, assignor to Power Jets (Research and Development) Limited, London, England, a British company

Application November 29, 1949, Serial No. 130,026
In Great Britain December 15, 1948
2 Claims. (Cl. 172—285)

1. An eddy current type adsorption dynamometer wherein torque is transmitted by magnetic interaction from a rotor to a floating stator thereabout, the dynamometer comprising in combination a cylindrical magnetic rotor body having radially upstanding peripheral flanges alternating with shallow annular channels along the length of the rotor, and a floating bipolar stator field system with unlike magnetic poles



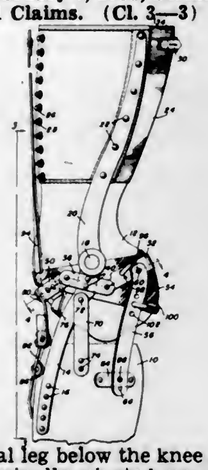
respectively at diametrically opposite sides of the rotor, the faces of said poles being ribbed and grooved complementarily to the rotor to define therewith a magnetic flux path in the rotor body generally in a direction normal to the rotor axis but across the air gap partly in that said direction and partly in an axial direction.

2,590,782

ARTIFICIAL LEG

Stanley Mayack, Frankfort, N. Y.

Application February 7, 1951, Serial No. 209,758
11 Claims. (Cl. 3—3)



1. An artificial leg below the knee stump socket comprising terminally pivoted upper and lower straps, a corset for embracing a leg shank secured to said upper straps, front and rear arcuate supports each terminally and pivotally supported by said lower straps, front and rear elastic cushioning straps secured within said supports for resiliently supporting a leg stump, said front strap being distortable to engage and support the front and lower portion of a leg stump.

2,590,783

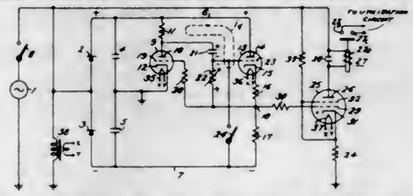
ELECTRONIC TIME-DELAY SYSTEM

Harry F. Mayer, Baldwinsville, N. Y., assignor to General Electric Company, a corporation of New York

Application February 28, 1951, Serial No. 213,171
2 Claims. (Cl. 250—27)

1. An electronic time delay system comprising a timing capacitor and a timing resistor in

series; a first source of positive unidirectional operating potential and a second source of negative unidirectional operating potential; means for discharging said timing capacitor with an effectively increased time constant comprising a first resistor and a first electron discharge device having a first anode, a first cathode, and a first control electrode; said first resistor connecting said first cathode and said second source, said first anode being connected to said first source, said first control electrode being connected to the junction point of said timing capacitor and said timing resistor, and said first cathode also being connected to the terminal of said timing resistor remote from said junction; means operative only during a middle portion of the discharge of said timing capacitor comprising a second resistor, a third resistor, and a second



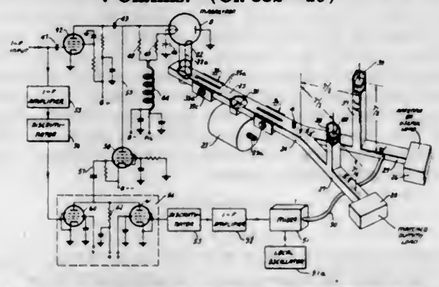
electron discharge device having a second anode, a second cathode and a second control electrode; said second resistor connecting said second anode and said first source, said third resistor connecting said second control electrode and said first cathode, said second anode being also connected to the terminal of said timing capacitor remote from said junction, and said second cathode being connected to a point of zero potential; a third electron discharge device having a control electrode circuit and an anode circuit; a load device connected in said anode circuit; and means for biasing said control electrode circuit in response to the voltage across said second source and said first resistor in series; the anode current in said third device being insufficient to energize said load device until the voltage across said first resistor rises to a predetermined value.

2,590,784

HETERODYNE FREQUENCY MODULATOR WITH AUTOMATIC DEVIATION CONTROL

Stephen W. Moulton, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application November 26, 1948, Serial No. 61,979
7 Claims. (Cl. 332—19)



5. In a heterodyne frequency-modulation system, an oscillator responsive to an input frequency-modulated carrier wave signal of predetermined carrier frequency for producing a similarly modulated output carrier wave signal of different carrier frequency, whose frequency deviation tends to differ from the frequency deviation of said first-named modulated signal, means responsive to said input and output modulated signals for developing a control signal which varies as a function of the difference in frequency deviation between said input and output modulated signals, and means for utilizing said control signal to control a characteristic of said oscillator in a manner to reduce said difference in frequency deviation.

2,590,785

POULTRY DRESSING TOOL

William G. Nealy, Terrell, Tex., assignor, by direct and mesne assignments, to Terrell Manufacturing Company, Inc., Terrell, Tex., a corporation of Texas

Application November 6, 1950, Serial No. 194,206
1 Claim. (Cl. 17—11)



A poultry dressing tool comprising a rotary shank for connection with a source of power, a longitudinal guide of uniform diameter integral with one end of said shank and including a broad, flat, coarse feed thread, and a tapered cutter fixed on the shank and including a circular blade encircling the guide at an intermediate point and in spaced, concentric relation thereto.

2,590,786

GREASE

John Walter Nelson, Hammond, Ind., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 19, 1950, Serial No. 163,078
1 Claim. (Cl. 252—32)

A grease composition consisting essentially of a lubricating oil thickened by a mixture of high molecular weight microcrystalline wax acids produced by substantially complete oxidation of microcrystalline wax containing 34 to 55 carbon atoms per molecule which is characterized by extreme water insolubility and by a saponification number less than about 200 and which predominates in monocarboxylic acids having an apparent chain length exceeding eighteen carbon atoms per molecule.

2,590,787

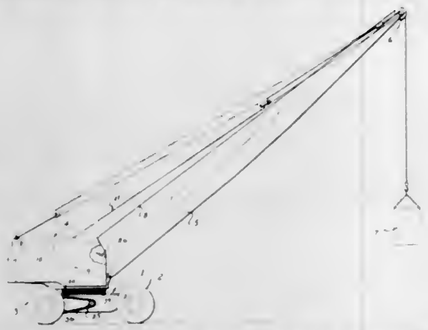
TRUCK TYPE ARTICULATED CRANE

Edward B. Nickles, Manitowoc, Wis., assignor to Manitowoc Shipbuilding Company, Manitowoc, Wis.

Application January 19, 1946, Serial No. 642,167
5 Claims. (Cl. 212—38)

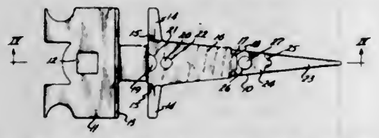
1. A truck type articulated crane comprising a chassis structure including front and rear axles

and side bars, the ends of said side bars having jointed connection with said front and rear axles, wheels supporting said front and rear axles, a central floating body pivoted on opposite sides to said side bars and pivoted at its front and rear to said front and rear axles respectively, a crane body pivoted about a vertical axis to said central



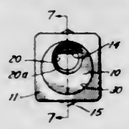
floating body and revoluble through a complete circle about said vertical axis, said crane including a boom and hoist means, and a plurality of power driven means for independently temporarily locking said chassis structure and said central floating body together so that they act as a rigid unitary structure.

2,590,788
MOWER CUTTER BAR GUARD
Joseph E. Novak, Berwyn, Ill.
Application January 26, 1949, Serial No. 72,903
8 Claims. (Cl. 56—307)



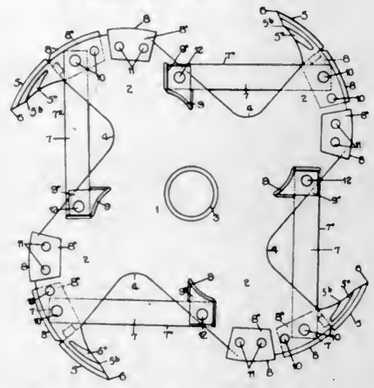
8. In an agricultural machine cutter bar mechanism including a guard unit having a guard body formed with a lip seat and a guard lip seated on said seat and having interengagement means formed on the guard body and the lip to prevent lateral movement therebetween, means for fixedly attaching said guard lip to said guard body camprising an integral post on said body projecting upwardly from said seat, said lip having an aperture engaging about the post with a countersunk portion of the aperture around the free end portion of the post, and a weld formed on the post filling said countersunk aperture portion.

2,590,789
WIRE CONNECTOR
Everett E. Noyes, Cleveland, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application August 31, 1949, Serial No. 113,408
10 Claims. (Cl. 24—81)



1. A wire connector comprising a pair of relatively movable clamping jaws adapted to clamp a wire therebetween, means operatively connected to at least one of the jaws for moving the jaws relatively toward each other to their point of closest approach upon movement of said means in one direction to a first position and to move said jaws relatively slightly apart from said closest position upon continued movement of said means in the same direction to a second position, and stop means for stopping the movement of the first means in said direction at a predetermined position, characterized in that said first means and said stop means are related to each other so that said predetermined position is said second position.

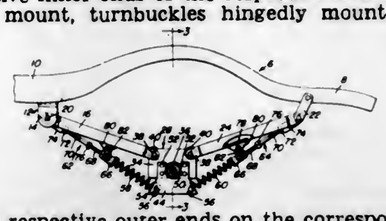
2,590,790
ROTARY CULTIVATING TOOL
Albert Vinten Pettman, Epsom, Auckland, New Zealand
Application July 31, 1947, Serial No. 765,061
In New Zealand April 29, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 29, 1966
4 Claims. (Cl. 97—212)



1. A rotary cultivator, comprising a hub adapted for mounting on a shaft to rotate therewith, arms having curved outer ends extending from said hub, curved leading cutters fitted to the extremities of and extending from said arms to provide continuations of the curves thereof, said leading cutters having cross chisel-shaped cutting edges parallel with the axis of the cultivator and having a second set of cutting edges located in or parallel with the plane through which the cultivator rotates, said leading cutters being adapted to make a cut in the ground in the direction of rotation of the cultivator, blade cutters secured on said arms so as to follow said leading cutters and make cuts in the ground in or parallel with the plane through which the cultivator rotates, and wing cutters secured on said arms at each side thereof to follow the leading and the blade cutters, and make cuts in the ground across the cuts made by said leading cutters and said blade cutters.

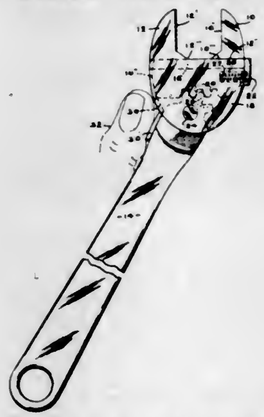
2,590,791
SPRING SUSPENSION MEANS FOR VEHICLES
Theodore E. Rasmussen, Scottsbluff, Nebr.
Application November 27, 1950, Serial No. 197,770
4 Claims. (Cl. 267—20)

1. In combination, a relatively stationary chassis member, a wheel supporting axle means beneath and at right angles to said member, a mount perched on and rigidly secured to said axle means, a fixed bracket secured to said chassis member, shackle links hingedly attached to and depending from said chassis member at a point spaced from said bracket, a forward pair of levers having their forward ends hingedly connected to said bracket, a rearward pair of substantially duplicate levers having their rearward ends hingedly connected with said shackle links, means separably and hingedly joining respective inner ends of the respective levers with said mount, turnbuckles hingedly mounted at



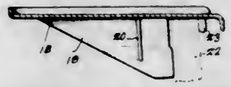
their respective outer ends on the corresponding respective end portions of the forward and rearward pairs of levers, coiled springs connected to the respective inner ends of said turnbuckles, and means hingedly connecting the respective inner ends of said coiled springs with said mount, said means comprising a pair of hanger plates detachably bolted on said mount, and cups hingedly mounted between said hanger plates, the adjacent ends of said springs being fitted and anchored in said cups.

2,590,792
SLIDABLE SIDE JAW WRENCH
Charles R. Reneer, Paintsville, Ky.
Application August 29, 1950, Serial No. 182,081
1 Claim. (Cl. 81—127)



In a self-adjusting wrench comprising a head having a stationary jaw and a slidable jaw, said stationary jaw having a bifurcated lower portion including a step on each side of the inner surface of the bifurcated portion extending along its upper extremity, the inner surfaces of the said bifurcated portion including the two sides of the said step being formed with parallel sides lying a separate parallel planes, the slidable jaw having its lower portion reduced in thickness to slidably fit within the bifurcated portion of the stationary jaw, a recess extending along each side of the upper edge of the reduced portion and cooperating with the said step, a gear rack located along the lower edge of the reduced portion of the slidable jaw, a handle having an arcuated toothed end adapted to engage said rack, means carried by the stationary jaw for pivoting the handle adjacent the toothed end to the stationary jaw, a fixed bracket across one side of the bifurcated portion of the stationary jaw, a recess within the reduced portion of the slidable jaw opposite the said bracket, a compression spring positioned within said recess and extending outwardly and contacting the said bracket for urging the slidable jaw toward the stationary jaw, a finger engaging means secured to the opposite edge of the stationary jaw from the said bracket and lying in the plane of the handle for rotating the head against the compression spring to extend the slidable jaw outwardly from the stationary jaw for adjusting the jaws of the wrench to the work.

2,590,793
UTILITY SHELF FOR LAUNDRY TUBS
William Walter Rigstad, Detroit, Mich., assignor of forty per cent to Russell James Haynes, Detroit, Mich.
Application April 11, 1946, Serial No. 661,371
3 Claims. (Cl. 211—88)



2. A shelf for resting on the upper edge of the front wall of a tub, comprising a depending bottom rib on said shelf for engaging said wall inside the tub, and a depending vertical bottom web on said shelf opposite said rib having a vertical tab projecting from one edge thereof for engaging said wall outside the tub, said tab being laterally bendable to raise or lower the shelf into different inclined positions.

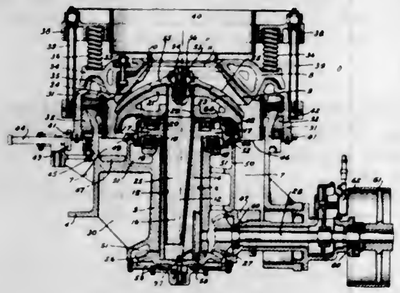
2,590,794
STABLE LITHIUM HYPOCHLORITE COMPOSITION
Homer L. Robson, Lewiston, N. Y., assignor to Mathieson Chemical Corporation, a corporation of Virginia
No Drawing. Application January 4, 1950, Serial No. 136,855
2 Claims. (Cl. 252—187)

1. A dry, stable lithium hypochlorite composition containing lithium hypochlorite in intimate admixture with at least about 10% of added anhydrous lithium chloride by weight on the lithium hypochlorite and in excess of that required to combine with all hydrate water present in the composition.

2,590,795
GYRATORY CRUSHER
Harvey H. Rumpel, Whitefish Bay, Wis., assignor to Smith Engineering Works, Milwaukee, Wis., a corporation of Wisconsin
Application April 7, 1948, Serial No. 19,470
In Canada June 17, 1947
3 Claims. (Cl. 241—216)

1. In a gyratory crusher, a frame having an upright central bore, a normally radially loaded bearing extending substantially throughout the length of said frame bore, a normally stationary crushing concave carried by said frame coaxially of said frame bore, a sleeve journalled for rotation in said frame bearing and having an eccentric bore, a normally radially loaded bearing extending substantially throughout the length of said eccentric bore, said sleeve having a single rigid upper flange projecting outwardly over the

upper end of said frame bore, a lower thrust bearing comprising an annular series of radial rollers interposed directly between the bottom of said flange and an upper surface of said frame outwardly beyond said frame bearing and constituting the sole means for supporting the weight of said sleeve and of the elements resting thereon, a crushing head disposed above said sleeve and having a rigidly attached depending shaft journalled for free rotation within said eccentric bearing and also having an upper surface cooperating with said concave to provide an



annular downwardly and outwardly flaring crushing chamber, an upper thrust bearing comprising an annular series of radial rollers interposed directly between said head and an upper surface of said flange outwardly beyond said eccentric bearing, a vertically extending ring surrounding said flange and having a sealing means between said frame and the ring and also having additional sealing means between said head and the ring, and a counterweight for said head associated with the periphery of said ring between said thrust bearings.

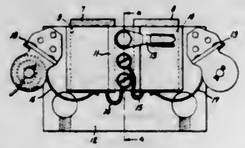
2,590,796

BRUSH MECHANISM

Herman W. Schaffer, Erie, Pa., assignor to General Electric Company, a corporation of New York

Application March 17, 1951, Serial No. 216,179

1 Claim. (Cl. 171—323)



In a dynamoelectric machine having a rotatable current collector, a brush holder assembly including a stationary supporting member of insulating material, an electrically conducting brush holder member provided with a passageway extending therethrough and mounted on said supporting member with said passageway extending axially toward said current collector, a brush disposed within said passageway and axially movable therein, said brush having a pigtail removably connected to said brush holder member a spring support mounted on said supporting member independently of said brush holder member, a spring for biasing said brush into contact with said current collector and mounted on said spring support to be insulated from said brush guide member to prevent current flow therebetween, and a terminal on said brush holder member for making an electrical connection thereto.

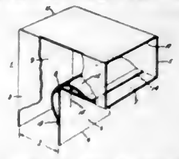
2,590,797

LOW-PRESSURE DROP FLUID DUCT BEND

Anthony C. Siciliano, Wesleyville, Pa., assignor to General Electric Company, a corporation of New York

Application February 3, 1950, Serial No. 142,185

5 Claims. (Cl. 138—39)



1. An elbow for a rectangular cross section fluid duct having an angled bend at the inner corner on the exterior surface of said elbow, the interior surface of said elbow at said corner being curved and having a minimum radius of curvature in the direction of the bend of said elbow not greater than the width of said duct but not less than one quarter of said width, the angle of the arc of said curvature being greater than the angle of said elbow.

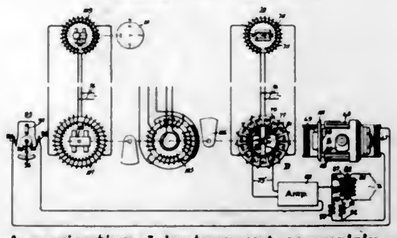
2,590,798

GYROSCOPIC DIRECTION INDICATOR

Allen T. Sinks, deceased, late of Beach Bluff, Mass., by Anna C. Sinks, administratrix, Beach Bluff, Mass., and Richard A. Pfuntner, Saugus, and Samuel Gabrielson, South Lynnfield, Mass., assignors to General Electric Company, a corporation of New York

Original application August 2, 1945, Serial No. 608,506. Divided and this application August 2, 1949, Serial No. 112,092

4 Claims. (Cl. 33—204)



1. A navigational instrument comprising a directional gyro mounted for three degrees of freedom, a magnetic compass, detector means actuated jointly by said directional gyro and said compass for producing an alternating current error signal the polarity of which varies in accordance with the direction of departure of said directional gyro from a predetermined relationship with said compass, a direct current responsive torque motor for precessing said directional gyro, and means comprising a rectifier interconnecting said detector means and said torque motor, said rectifier comprising at least one nonlinear impedance and means for periodically varying the ohmic value of said impedance whereby polarity-sensitive, symmetrical rectified current is obtained for actuating said torque motor in accordance with the polarity of said error signal.

2,590,799

SUTURE PACKAGE HOLDER

Sol Solowey, Merrick, N. Y.

Application June 29, 1950, Serial No. 171,114

7 Claims. (Cl. 206—63.3)

1. A suture package holder comprising an elongated member having side edges, each side edge having a plurality of relatively small inwardly curved portions, a plurality of removable greater length sutures extending spirally in said curved portions of opposite edges for the entire



length of said member, and a wrapper for said member and said sutures extending substantially the entire length of said member, said sutures being exposed at least at one end of said member.

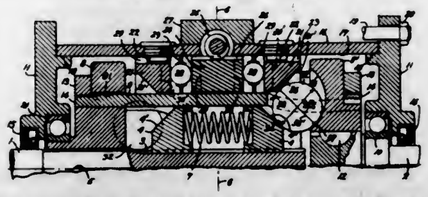
2,590,800

VARIABLE-SPEED TRANSMISSION

Hugh M. Stephenson, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York

Application January 17, 1950, Serial No. 138,993

1 Claim. (Cl. 74—796)



In a power transmission device in combination a pair of oppositely disposed rotary driving races, a pair of oppositely disposed interconnected rotary driven members each having a plurality of spin sockets therein, a pair of oppositely disposed control race members each having a race and a plurality of cam surfaces therein, a plurality of driving balls arranged in distinct groups each associated with one of said driven members, said balls engaging said control races and being in spinning contact with said sockets, means to maintain said driving races in engagement with said balls, means to vary the positions of said control races relative to said sockets comprising an adjuster member interposed between said control race members and having a plurality of cam surfaces therein arranged to mate with said first-mentioned cam surfaces in said race members, a plurality of adjuster balls arranged to engage said mating cam surfaces, means to move said last-mentioned cam surfaces relative to said first-mentioned cam surfaces to vary the spacing between said adjuster and said control races, variation in the points of spinning contact of said driving balls in said sockets being effected by relative motion between said mating cam surfaces in engagement with said adjuster balls, and the speed ratio between said driving race and said driven member being varied in response to said last-mentioned variation.

2,590,801

GREASE COMPOSITION

John W. Teter, Chicago, Ill., and John Walter Nelson, Hammond, Ind., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application May 19, 1950, Serial No. 163,076

2 Claims. (Cl. 252—32)

1. A grease composition comprising a lubricating oil thickened by the soaps of a high molecular weight microcrystalline wax acid mixture produced by substantially complete oxidation of microcrystalline wax containing 34 to 55 carbon atoms per molecule which is characterized by extreme water insolubility and by a saponification number less than about 200 and which predominates in monocarboxylic acids having an apparent chain length exceeding eighteen carbon atoms per molecule.

2,590,802
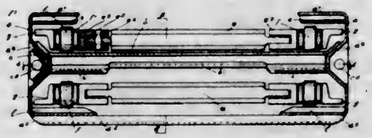
PUSHER CONVEYER WITH SECTIONAL TROUGH

Robert Tramblay, Douai, France, assignor to Houilleres du Bassin du Nord et du Pas de Calais, Douai, France, a corporation of France

Application September 27, 1948, Serial No. 51,342

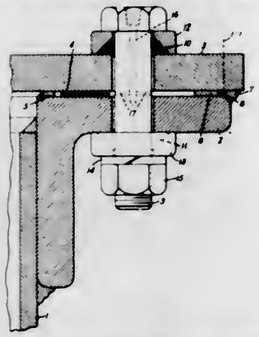
In Great Britain May 23, 1947

3 Claims. (Cl. 198—168)



1. A conveyor of the type described, which comprises in combination a plurality of similar elements, each including a pair of side-members each generally in the form of an inwardly-directed Greek letter Σ having a top and a bottom horizontal inturned flange, a top and a bottom vertical web and an outwardly opening horizontal inwardly directed recess separating said webs, and a horizontal sheet-member interconnecting said side-members substantially intermediate the top and bottom ends thereof, so as to define a top and a bottom substantially channel-shaped compartment, means for serially interconnecting said elements, said means comprising a shoe-like block secured in said inwardly directed recess of each side-member of each element at the upstream end thereof, said shoe having a perforated wall projecting towards the adjacent end of an adjacent element, and a perforated transverse gusset-plate secured in said inwardly directed recess of each side-member of each element at the downstream end thereof, and a bolt of substantial length extending through each said perforated wall of said shoe in each element and through the adjacent perforated gusset-plate in an adjacent element so as to interconnect said elements with a certain amount of angular freedom both in a vertical and a horizontal direction, and conveying means including a pair of drive-chains and a plurality of scraper members extending across said chains to be driven thereby in product-conveying relation over said sheet-member through said upper compartments and in idle condition back through said lower compartments in the assembled elements.

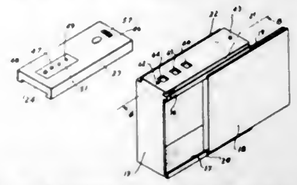
2,590,803
TANK JOINT
Magnus Unger and Myron H. Bates, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application July 9, 1949, Serial No. 103,874
3 Claims. (Cl. 220—81)



1. In a tank structure of the type having two metal members circumferentially jointed to one another and a resilient gasket between the jointed surfaces of said members, at least one of said metal members being a flange attached to said tank, said tank normally being at least partially filled with a medium which changes its pressure in response to temperature changes, a ring-shaped member between said jointed metal members radially inwardly of said resilient gasket, spaced-apart button-like metal members circumferentially arranged between said jointed members radially outwardly of said gasket and adjacent the radially outer edge of said flange, said button-like members serving to protect said resilient gasket from damage due to flexing of said jointed metal members, a plurality of metal insert members spaced around the periphery of said joint closely adjacent the radially outer edge of said flange so as to span the space between adjacent button-like members, a light peripheral weld around the exterior edge of said joint, said insert members serving as a base for said peripheral weld, a plurality of bolts circumferentially arranged radially inwardly of said weld and passing through said jointed metal members, a resilient gasket positioned on each of said bolts where it emerges from the outer surface of each of said jointed metal members, a countersunk washer on each of said bolts immediately adjacent each of the resilient gaskets on said bolts, each of said gaskets fitting into the countersunk portion of its respective washer, a nut member positioned on the end of each of said bolts to normally maintain said resilient gaskets and washers on said bolts in compression, at least one of said bolts being provided with a passage communicating with the space between said circumferential gasket and said weld to permit testing said joint for leakage.

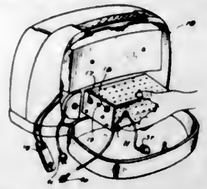
2,590,804
BATTERY CASING
Anthony S. Vitale, Brooklyn, N. Y.
Application December 22, 1949, Serial No. 134,370
2 Claims. (Cl. 136—166)

1. A battery unit comprising an integral casing having top and bottom portions and a side opening, a closure element operable on the casing to close the side opening thereof, said side opening being adapted to receive battery elements for the purpose of placing the same within the casing, said top portion having a series of small openings therein, a combined contact and wiring assembly comprising top and bottom insulating plates, certain of said plates having terminal projections extending through the openings in the top portion, said insulating plates having spring contact elements thereon, adapted to receive and retain batteries disposed within the casing and to engage the terminals of the



batteries and wiring connected between the contact elements and the terminal projections to place the batteries automatically in circuit relationship with each other and with the terminal projections upon the batteries being disposed in the casing and an adaptor removably attached to the top of the casing and having contact terminals engageable with the terminal projections extending through the openings in the top portion of the casing.

2,590,805
ELECTRONIC RECTIFYING CIRCUITS
Anthony S. Vitale, Brooklyn, N. Y.
Application January 25, 1950, Serial No. 140,483
4 Claims. (Cl. 171—97)

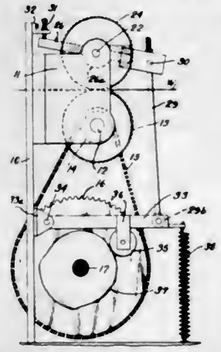


1. A replaceable rectifier unit for use with electronic instruments comprising a chassis having rectifier elements thereon arranged in circuit relationship with one another and a top plate portion, said top plate portion having spaced recesses and contacts aligned with said recesses, a plug adaptor having prongs adapted to enter the recesses of the plate to engage with the contacts thereof and having contact terminals adapted to receive contact wires of the electronic instrument, said top plate of the chassis adapted to close one end of the unit, a cover carried on the chassis to enclose the rectifying elements thereupon, said plug adaptor extending the full area of the top portion of the chassis and adapted to be replaced by other plug adaptors to render the rectifying unit suitable for the different types of connections of the different electronic instruments.

2,590,806
WIRE FEEDING MACHINE
Rudolph C. Vorderstrasse, Sterling, Ill., assignor to Northwestern Steel and Wire Company, Sterling, Ill., a corporation of Illinois
Application November 13, 1948, Serial No. 59,931
1 Claim. (Cl. 140—131)

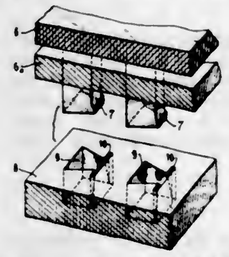
An intermittent wire feeding apparatus for successively feeding predetermined lengths of cross wire to a fence welding machine compris-

ing a frame, a feed roll journaled on said frame, a motor, a main drive shaft driven by said motor and a positive drive connection from said shaft to said feed roll, a cooperating feed roll journaled on said frame and with said first mentioned feed roll defining a nip therebetween, a gear coaxial with and rotated by said first feed roll, a second gear coaxial with and rotating said cooperating feed roll and meshing with said first mentioned gear, the mounting for said second gear and cooperating feed roll on said frame comprising a shaft parallel to the axis of said first feed roll and mounted on said frame with its longitudinal axis offset from the center of said roll, a sleeve on said shaft, the center of said sleeve being eccentric of the center of said shaft and concen-



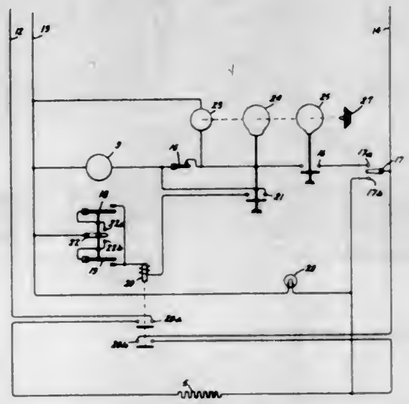
tric with the center of said gear and roll, and said sleeve having said gear and cooperating feed roll journaled thereon, an arm secured to said sleeve, a cam rotatably driven by said main drive shaft, a second rocking arm spaced beneath said first arm and pivoted to said frame, a follower on said rocking arm engaging said cam to one side of the center thereof, a link operatively connecting said arms together, and a spring connected to the free end of said second arm and yieldably engaging said follower with said cam, whereby rotation of said cam will periodically pivot said first arm and eccentric sleeve and vary the nip relationship between said rolls into periodic feeding engagement with the cross wire therebetween.

2,590,807
MEANS FOR STRIKING LUGS OF HEADED FORM FROM A METAL SHEET
Berend J. Voslamber, Hoogkerk, Netherlands, assignor to N. V. Betonfabriek "De Meteoor," De Steeg, Netherlands, a company of the Netherlands
Application August 31, 1948, Serial No. 47,113
In the Netherlands September 3, 1947
3 Claims. (Cl. 164—109)



1. Means for striking lugs of headed form from a metal sheet comprising a die having a first opening formed therein, said first opening being of a width substantially equal to the thickness of the sheet from which the lug is to be struck and being of a depth substantially equal to the length of the lug, said die having a second opening formed therein, the second opening having a cross sectional shape substantially equal to the cross sectional shape of a punch insertable therein to strike the lug from the sheet and said second opening having a first end wall and an opposing second end wall, said second end wall being open and in communication with the first opening, said second opening also having opposing side walls, the distance between the side walls adjacent to the first end wall being greater than the distance between the side walls at the open end wall, the length of the first opening being at least equal to the maximum distance between the side walls of the second opening parallel to the length of the first opening, the width of the open end wall increasing from the mouth of the second opening and being of a sufficient size at a point remote from the mouth to permit the passage of the free end of the formed lug from the second opening into the first opening under the force of the punch as the lug in formation stages gyrates about an axis defined by a line forming the upper edge of the second end wall into a position at right angles to the sheet and said side walls diverging from the mouth to a point remote therefrom to permit gyrating movement of the free end of the lug through the second opening.

2,590,808
CONTROL SYSTEM FOR LAUNDRY DRIERS AND THE LIKE
Ernest A. Wagner, Lordship, Conn., assignor to General Electric Company, a corporation of New York
Application August 2, 1950, Serial No. 177,219
3 Claims. (Cl. 34—45)



1. In electric clothes driers and the like having a casing, a foraminated clothes receiving drum mounted for rotation in said casing, a door in one side of said casing, electrically operated heater means within said casing for raising the air and the clothes temperature therein, a motor for rotating said drum, and circuits for respectively connecting said motor and said heater energizing means to a source of electrical energy: the improvement in said circuits comprising an overload responsive device having normally closed contacts in series in said motor

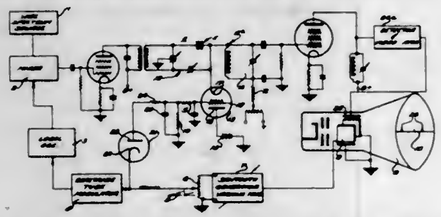
circuit, a relay having normally open contacts in series in said circuit of said heater energizing means, a circuit for energizing said relay to close said normally open contacts, an electric control motor, a circuit for energizing said control motor, a plurality of cams driven by said control motor, a plurality of switching devices having contacts in series in said first-mentioned motor circuit and in series in said energizing circuit of said relay, said switching devices operated by said cams for controlling said drier in accordance with a predetermined time cycle, an electric indicating device, a first circuit for energizing said electric indicating device simultaneously with said heater energizing means, a second circuit for energizing said electric indicating device in response to the opening of said door, an interlock switching device operated by said door and having contacts opened in response to the opening of said door in series in said relay energizing circuit and in series in said first-mentioned motor circuit, said interlock switching device having contacts opened in response to the closing of said door in series in said second circuit of said electric indicating device, and a temperature-responsive switching device having normally closed contacts in series in said energizing circuit of said relay for deenergizing said relay and thereby deenergizing said heater energizing means in response to the attainment of a predetermined temperature level within said casing.

2,590,809

VARIABLE SELECTIVITY PANORAMIC SYSTEM

Marcel Wallace, East Portchester, Conn., assignor, by mesne assignments, of one-half to said Wallace, doing business as Panoramic Laboratories, East Portchester, Conn.

Application February 26, 1948, Serial No. 11,265
16 Claims. (Cl. 250—20)



15. A spectrum analyzer comprising frequency scanning means, said means scanning a band of the spectrum having a width of w cycles and a rate of scan of

$$\frac{dF}{dt}$$

cycles per second, where

$$\frac{dF}{dt}$$

is variable, frequency selective means following the said scanning means and having a static resolution of P cycles, P being variable, means for maintaining the value of P greater than

$$\sqrt{.2\frac{dF}{dt}}$$

for all values of

$$\frac{dF}{dt}$$

2,590,810

PREPARATION OF VINYL CHLORIDE

Robert B. Young, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application August 5, 1950, Serial No. 177,971
7 Claims. (Cl. 260—656)

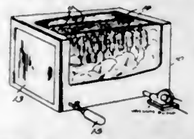
1. The method of making vinyl chloride which comprises passing acetylene and hydrogen chloride both in the vapor phase over a copper salt adsorbed on a carbon adsorbent, said copper salt being selected from the class consisting of copper halides, copper sulfates, copper nitrates, and copper acetates.

2,590,811

SHRINKAGE RESISTANCE TREATMENT OF WOOLEN GOODS

John Zimmerman, Philadelphia, Pa., Harold W. Wolf, Clifton, N. J., and Louis I. Weiner, Philadelphia, Pa.; said Wolf assignor to Forstmann Woolen Company, Passaic, N. J., a corporation of New Jersey

Application April 13, 1950, Serial No. 155,704
17 Claims. (Cl. 8—128)



1. The process of imparting shrink-resistance to woolen goods without substantially impairing their strength, comprising adjusting the moisture content of said goods to from about 10.5% to about 12%, contacting said goods in a closed chamber at a temperature above 70° F. with from about 1½ to 3% chlorine gas based on the weight of said goods, and neutralizing the hydrochloric acid formed on said goods.

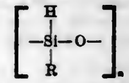
2,590,812

SILOXANES HAVING HYDROGEN ATOMS DIRECTLY ATTACHED TO SILICON ATOMS

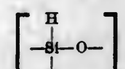
Arthur J. Barry, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application March 30, 1946, Serial No. 658,583
9 Claims. (Cl. 260—448.2)

1. An organo-silicon oxide condensation product having hydrogen atoms attached directly to silicon atoms of the molecule, which product is of the group consisting of (*a*) cyclic polysiloxanes having the general formula:



wherein R represents a monovalent hydrocarbon radical containing at least two carbon atoms and selected from the group consisting of alkyl, aralkyl and aromatic radicals, and n is an integer greater than 2, (*b*) linear polysiloxanes comprising an organo-siloxane chain having the formula:



wherein R has the above meaning and n' is an integer greater than 1, which organo-siloxane

chain is terminated by radicals of the group consisting of hydroxyl, alkoxy and trialkylsiloxyl radicals, and (c) copolymeric polysiloxanes composed essentially of



radicals interspersed with



radicals wherein R′ and R″ each individually represents a monovalent hydrocarbon radical of the group consisting of methyl and phenyl radicals.

2,590,813

DEHALOGENATION OF AROMATIC COMPOUNDS

Edgar C. Britton and James D. Head, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application December 23, 1949, Serial No. 134,839
5 Claims. (Cl. 260—592)

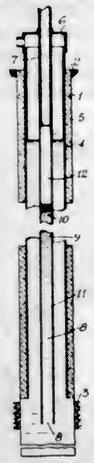
1. A method of removing a halogen having an atomic weight from 35 to 80 from the 5-position of a 1-carbonyl-5-halo-2-hydroxy-benzene compound whose carbonyl carbon atom is attached to one member of the group consisting of hydrogen, phenyl, alkyl radicals having not more than four carbon atoms, and aralkyl and alkaryl radicals having not more than ten carbon atoms which comprises bringing an aqueous solution of the compound into contact with hydrogen in the presence of a palladium catalyst, while maintaining the pH of the solution between about 3.8 and 7.5.

2,590,814

DEEP WELL TREATMENT

Paul H. Cardwell, Albert W. Coulter, Jr., and Harry H. Jones, Tulsa, Okla., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

Application April 21, 1949, Serial No. 88,802
2 Claims. (Cl. 166—21)



1. In the treatment of a deep well, provided with the usual tubing string and having a column of liquid in the said tubing string, with a liquid agent which is immiscible with and of higher specific gravity than the liquid of the said column of liquid and capable of penetrating an earth formation, the method of preventing the liquid agent from descending through and mixing with the liquid of the said column of liquid on being deposited in the said tubing string which consists in depositing upon the said column of liquid, another liquid which is miscible with the liquid of the said column of liquid and of higher specific gravity than the liquid agent in amount sufficient to increase the specific gravity of at least the upper portion of the said column of liquid to a value above that of the said liquid agent, and thereafter introducing into the tubing string, the said liquid agent.

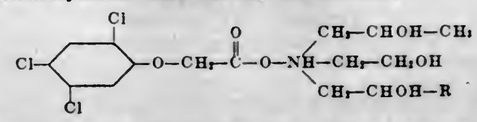
2,590,815

ALKANOLAMINE SALTS OF 2,4,5-TRICHLOROPHENOXYACETIC ACID

Robert C. Dosser, Midland, and Leeds C. White, Jr., Bay City, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application March 9, 1950, Serial No. 148,747
3 Claims. (Cl. 260—501)

1. An alkanolamine salt of 2,4,5-trichlorophenoxyacetic acid having the formula



wherein R represents a member of the group consisting of hydrogen and methyl.

2,590,816

2,2′-DIHYDROXY-3-HYDROXYMETHYL-5,5′-DICHLORODIPHENYLMETHANE

Herman E. Faith, New Palestine, Ind., assignor to Allied Laboratories, Inc., Kansas City, Mo., a corporation of Delaware

No Drawing. Application June 23, 1950, Serial No. 170,034
1 Claim. (Cl. 260—619)

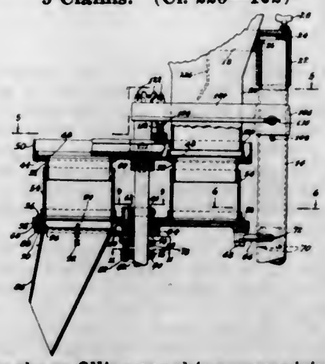
The compound 2,2′ - dihydroxy - 3 - hydroxymethyl - 5,5′ - dichlorodiphenylmethane.

2,590,817

PACKAGE FILLING MACHINE

Joseph E. Fenno, Rutherford, N. J., assignor to Stuyvesant Engineering Company, Lyndhurst, N. J.

Application February 13, 1947, Serial No. 728,363
5 Claims. (Cl. 226—102)



1. A package filling machine comprising a horizontal rotatable table, a plurality of measures

rotatable with said table and opening to the upper surface of said table, a hopper disposed above said table with a discharge opening disposed above the path of movement of said measures such that fluent material in said hopper is adapted to flow through said opening to successively fill up said measures as they pass under said opening, and a pair of elongate brushes disposed horizontally over said table for scraping surplus material therefrom, said brushes having a V-shaped disposition with one of said brushes extending inwardly from the outer edge of said table and in its direction of rotation while the other of said brushes extends outwardly from the center of said table and in its direction of rotation, said brushes being spaced apart at the apex of their V-shaped disposition and being disposed relative to said discharge opening so as to scrape surplus material from the top surface of said table into said measures while they are empty.

2,590,818

PARASITICIDE COMPOSITION

Oscar H. Hammer, South Haven, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application August 15, 1949, Serial No. 110,480

3 Claims. (Cl. 167—28)

1. A miticide composition comprising as active toxic ingredients at least from about 1 to 40 parts by weight of an oil of petroleum origin having an unsulphonated residue of at least 50 per cent for each 1 part of 4'-chlorophenyl 4-chlorobenzene sulfonate, the active toxic ingredients of such composition being mutually activating.

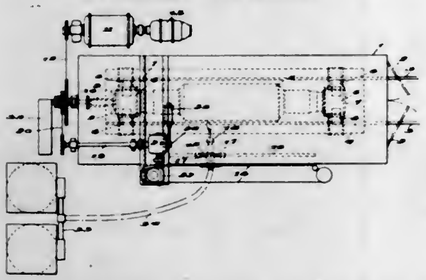
2,590,819

ROLL BLASTING EQUIPMENT

Robert B. Huyett, Hagerstown, Md., assignor to Pangborn Corporation, Hagerstown, Md., a corporation of Maryland

Application July 8, 1949, Serial No. 103,710

5 Claims. (Cl. 51—15)



1. In a blasting machine for blasting with abrasive particles the outer surface of an elongated metal roll to give this surface a highly uniform matte finish: rotatable roll-supporting elements journalled for rotatably supporting a roll to be blasted; said elements being mounted for translational movement to carry a roll supported on these elements along a predetermined path; driving structure including roll-rotating mechanism having coupling elements mounted for rotation at a substantially fixed position to automatically come into driving engagement with a roll supported by the support elements as these elements are moved toward this position; and abrasive particle projecting structure; said driving structure including traversing mechanism connected for carrying the abrasive particle projecting structure longitudinally of the roller supported by the supporting elements at a rate which has a predetermined fixed relation to the roll rotation rate to provide a uniform overlapping of the blast swath and causing projected abrasive particles to uniformly abrade the external roll surface as the roll is rotated.

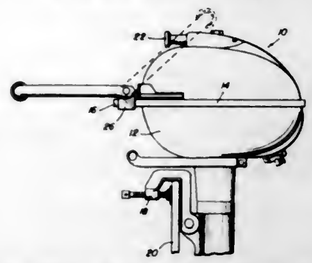
2,590,820

OUTBOARD MOTOR STEERING BAR

William Jedlicka, Garfield Heights, Ohio; Rose Jedlicka, administratrix of said William Jedlicka, deceased, assignor to herself individually

Application June 30, 1948, Serial No. 36,113

2 Claims. (Cl. 74—1)



1. In an outboard motor including a tank band having a pair of spaced horizontal ears, a steering handle comprising an anchor plate having upstanding end portions, means removably securing said anchor plate to and flat against the spaced ears and in a substantially horizontal position, a U-shaped hand grip having bifurcated terminals receiving the upstanding end portions of said anchor plate, said upstanding end portions of said anchor plate having substantially vertical edges, a bearing edge between the furcations of the bifurcated terminals, and horizontal pivot pins connecting the bifurcated terminals to said upstanding end portions, said bearing edge between the furcations of said bifurcated terminals engaging the vertical edges of said upstanding end portions to limit the downward pivotal movement of said hand grip in one direction.

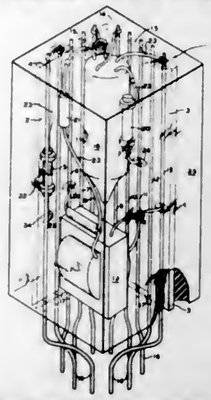
2,590,821

POTTED ELECTRICAL SUBASSEMBLY

James L. Kiser, Alexandria, Va., assignor to Melpar, Inc., Alexandria, Va.

Application November 4, 1948, Serial No. 58,179

5 Claims. (Cl. 173—324)



5. A wired structure, comprising, a relatively thin sheet of plastic material, a metallic rod extending longitudinally through said sheet of plastic material and embedded therein, an end of said rod extending outside said sheet of plastic material, an opening in said sheet of plastic material exposing said metallic rod, an electrical component connected to said rod via said opening, a mass of plastic material enclosing said sheet of plastic material and said electrical component and exposing said end of said rod.

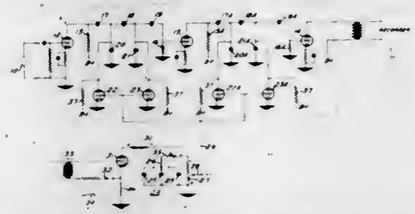
2,590,822

FILTER FOR SEISMIC PROSPECTING

John P. Minton, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application June 28, 1946, Serial No. 679,991

5 Claims. (Cl. 178—44)



1. In apparatus for recording seismic waves, a resistance-capacitance filter whose frequency-response characteristic varies as a predetermined function of time during the wave-recording period following a starting signal, comprising a series capacitor connected between an input terminal and an output terminal of said filter, shunt circuits each including a capacitor respectively on the input and output sides of said series capacitor, electronic tubes having interelectrode resistances respectively in shunt to said shunt circuit capacitors and having control electrodes whose biasing potential determines the magnitudes of said resistances, and means effective in response to said starting signal to vary said biasing potential in correspondence with said predetermined function of time.

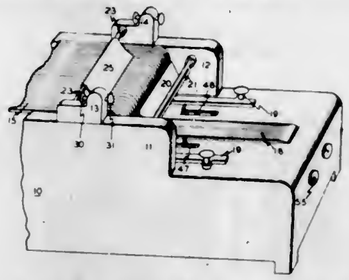
2,590,823

AUTOMATIC DOUGH PANNING MACHINE

Herbert C. Rhodes, Portland, Oreg., assignor to Read Standard Corporation, a corporation of Delaware

Application July 7, 1949, Serial No. 103,338

7 Claims. (Cl. 226—2)



2. In a dough pan loader of the character described, a trough-like dough dispenser, a hinged plate in said dispenser permitting dough to drop from said dispenser when said plate is swung to open position, an air-actuated piston for swinging said plate to open position, spring means normally holding said plate in closed position, a conveyor belt for delivering pieces of dough into said dispenser, a dough-contacting trip plate extending over said conveyor belt and actuated by the movement of pieces of dough past said trip plate, a control operated by said trip plate, said control governing delivery of air under pressure to said air-actuated piston to effect swinging movement of said plate of said dispenser to open position upon engagement of said trip plate by a piece of dough, and means for moving dough pans consecutively into position beneath said dispenser to receive pieces of dough discharged from said dispenser.

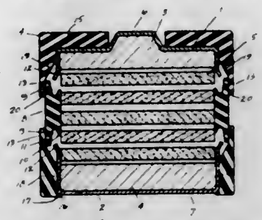
2,590,824

BATTERY

Bruno C. Roehrl, Erie, Pa., assignor to National Organ Supply Company, Erie, Pa., a corporation of Pennsylvania

Application February 23, 1951, Serial No. 212,347

3 Claims. (Cl. 136—133)



3. A battery comprising an annular flexible sealing member having inner and outer walls on its upper and lower edges defining grooves, opposed cup shaped electrodes having rims telescoped into the grooves, plastic cam rings telescoped over the electrodes and sealing member, means holding the cam rings together, and cam surfaces on the rings engaging the outer walls of the sealing member and squeezing the same against the rims.

2,590,825

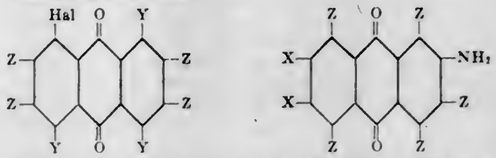
PROCESS OF PREPARING ANTHRIMIDES

Mario Scalera, Somerville, and Hugh W. Stewart, Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 7, 1950, Serial No. 172,622

13 Claims. (Cl. 260—367)

1. As a new and improved method of producing alpha, beta anthrimides by the Ullmann reaction from alpha halogen anthraquinone and beta-aminoanthraquinone compounds having the following formulae:



in which Hal represents a halogen, Z represents a monovalent inert substituent selected from the class consisting of hydrogen and a substituent group unreactive under Ullmann conditions, one Y is selected from the group consisting of Hal and Z, and the other Y's are Z, and one X is Z and the other X is selected from the group consisting of NH_2 and Z; the improved method which comprises reacting said beta-aminoanthraquinone compounds with said alpha-halogen-anthraquinone in an organic solvent in the pres-

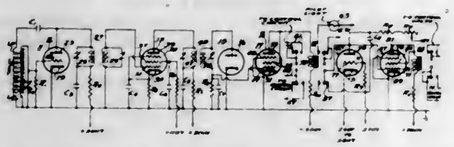
ence of an acid binding agent sufficient to react with the hydrogen halide set free and in the presence of a cupriferous catalyst containing copper and iodine in the ratio of from 0.9 to 2.0 atoms of iodine per atom of copper.

2,590,826

OSCILLATOR CONTROLLED RELAY CIRCUIT

Remsen T. Schenck, Lower Mount Bethel Township, Northampton County, Pa., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application December 11, 1945, Serial No. 634,314
6 Claims. (Cl. 175—320)



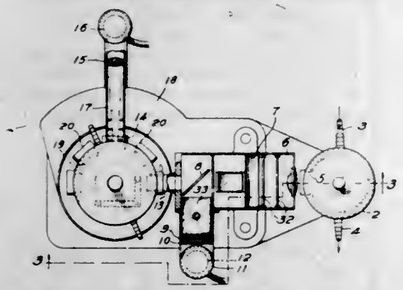
1. An electrical control circuit which is operable to effect the repetitive energization of equipment associated therewith for very short intervals of time comprising a vacuum tube saw-tooth sweep circuit, a relay control tube having a cathode, a plate and a control grid coupled to said sweep circuit, and a relay connected for energization by said relay control tube, the cathode of said relay control tube being maintained at a voltage which is only slightly less positive than the plate supply for the sweep circuit tube, the control grid of the relay control tube being maintained at the same potential as the plate of the sweep circuit tube, and the cathode of the sweep circuit tube being maintained at a substantial negative potential relative to the potential of the cathode of the relay control tube.

2,590,827

TURBIDIMETER

Robert F. Stamm, Stamford, Conn., and Thomas Mariner, Mount Joy, Pa., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application October 29, 1948, Serial No. 57,344
4 Claims. (Cl. 88—14)



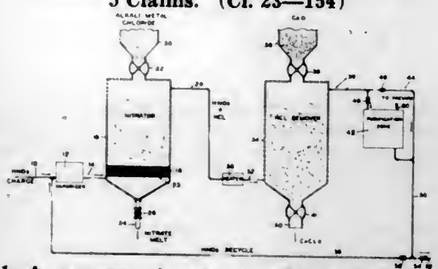
1. A device for measuring the ratio of scattered light to direct light in a substance comprising in combination a turbidimetric cell, means for passing a beam of light therethrough, means for reflecting a small fraction of said beam before entering the cell, said cell being provided with at least one exit window for scattered light from the beams, electron multiplier phototubes positioned to receive the reflected fraction of the direct light beam and scattered light from the cell respectively, a stabilized source of high voltage D. C. feeding the electrodes of the phototubes through separate bleeder circuits, load resistances in each phototube output circuit, balance indicating means between the anodes of the phototubes, the load resistor in the anode output of the direct light electron multiplier tube being variable and provided with means for indicating its variation, said bleeder circuits being provided with adjustable resistances capable of adjusting phototube currents so that the value of the direct light electron multiplier tube anode load resistor is proportional to the scattering coefficient of the material being measured when the balance-indicating means shows balance, whereby at balance the measurement of the ratio of scattered light to direct light is independent of fluctuations in light beam intensity.

2,590,828

SEPARATION OF HYDROGEN CHLORIDE FROM NITRIC ACID

Leonard A. Stengel, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland

Application May 6, 1948, Serial No. 25,377
5 Claims. (Cl. 23—154)



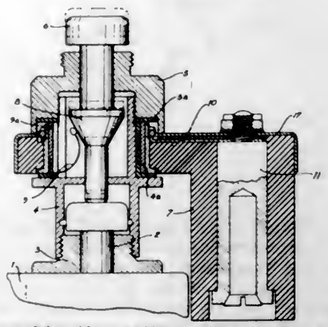
1. A process of removing hydrogen chloride from vaporous mixtures containing hydrogen chloride and nitric acid, which comprises passing such a mixture through a reaction zone maintained at a temperature of at least about 550° C. in direct contact with a contract substance selected from a class consisting of calcium oxide, calcium carbonate and mixtures rich in these compounds, and cooling the effluent vapors to recover nitric acid.

2,590,829

CURTAIN SHUTTER CAMERA WITH FLASH SYNCHRONIZER ATTACHMENT

Adam Wagner, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application November 25, 1949, Serial No. 129,290
In Germany May 11, 1949
3 Claims. (Cl. 95—11.5)



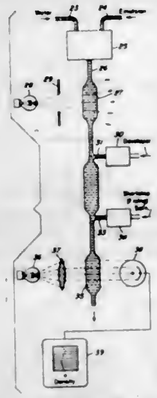
1. In combination with a focal plane shutter camera having a housing, shutter curtains, shutter release means on the housing, and a timer dial being moved in synchronization with the movement of the shutter curtains: a flash synchronization device comprising a hollow member and an insulating body fixedly attached thereto, means for removably attaching said hollow member and insulating body to said shutter release means, a supplementary release member movably guided in said hollow member and adapted to cooperate with the shutter release means, first contact means actuated by said release member for interrupting and closing an ignition circuit for the flash, said first contact means being disposed in said hollow member, plug means in said insulating body forming part of the ignition circuit, a switch lever pivotally attached to said insulating body, a setting slider on said insulating body engaging said switch lever and being adapted to adjust said switch lever in a desired position opposite said timer dial, second contact means in series with said first contact means and actuatable by said switch lever, the timer dial being provided with a plurality of cams, each of said cams being adjoined to a predetermined setting of the timer dial and being adapted to engage said switch lever in dependence of the setting of the timer dial, the engagement of the switch lever by said cam causing the switch lever to move pivotally to close said second contact means, the ignition circuit being closed and the flash ignited only when both contact means are closed.

2,590,830

EMULSION SENSITOMETRY

Edward Allan Williford and Monroe H. Sweet, Binghamton, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application October 14, 1948, Serial No. 54,448
10 Claims. (Cl. 23—230)



9. A continuous process for measuring the relative sensitometric characteristics of a photographic silver halide emulsion which comprises causing a portion of the emulsion in liquid form to flow in a stream at a predetermined constant rate, exposing a limited zone of said stream to illumination of predetermined intensity, adding a developer at a constant rate to said stream beyond the exposure zone, adding a development arresting reagent at a constant rate at a point spaced from the point of introduction of said developer, the intervening portion of the stream constituting a development zone, and measuring the optical density of the stream to transmitted light beyond said development zone.

2,590,831

SYNTHESIS OF STREPTAMINE

Melville Lawrence Wolfrom, Columbus, Ohio, and Stephen Munro Olin, Elkhart, Ind., assignors to The Ohio State University Research Foundation, Columbus, Ohio, a corporation of Ohio

No Drawing. Application April 19, 1949, Serial No. 88,499
13 Claims. (Cl. 260—210)

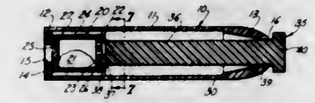
1. Process of preparing streptamine which comprises reacting N-acetyl-D-glucosamine with ethyl mercaptan to obtain N-acetyl-D-glucosamine diethyl thioacetal, reacting the N-acetyl-D-glucosamine diethyl thioacetal with mercuric chloride and mercuric oxide to obtain ethyl 2-desoxy-2-acetamido - α - D-glucothiofuranoside, reacting the ethyl 2-desoxy-2-acetamido-α-D-glucothiofuranoside with lead tetraacetate, treating the resulting product with nitromethane and crystallizing a mixture of ethyl 2,6-didesoxy-2-acetamido-6-nitro-α-D-glucothiofuranoside and ethyl 2,6-didesoxy-2-acetamido-6-nitro-β-L- idothiofuranoside, separating, and demercaptolating the higher melting form, intramolecularly condensing, hydrogenating and acetylating to streptamine hexaacetate, which is subsequently hydrolyzed to streptamine.

2,590,832

INHALER WITH CLOSURE

Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.

Application March 29, 1949, Serial No. 84,243
13 Claims. (Cl. 128—206)



1. In a device of the character described, the combination of: a chamber having spaced ends, a capsule movable in said chamber between said ends thereof; rod means adapted to extend into said chamber through one end thereof into engagement with said capsule for holding said capsule in engagement with the opposite end of said chamber; and means on said rod means adapted to frictionally engage said one end of said chamber for holding said rod means in engagement with said capsule.

DESIGNS

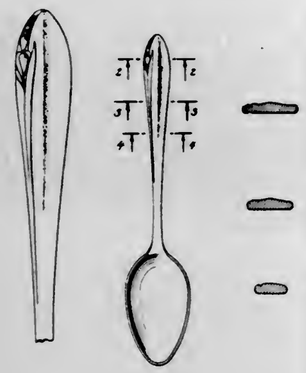
MARCH 25, 1952

166,236
GREETING CARD
Dolores Adams, Nashville, Tenn.
Application September 13, 1951, Serial No. 16,627
Term of patent 7 years
(Cl. D59—2)



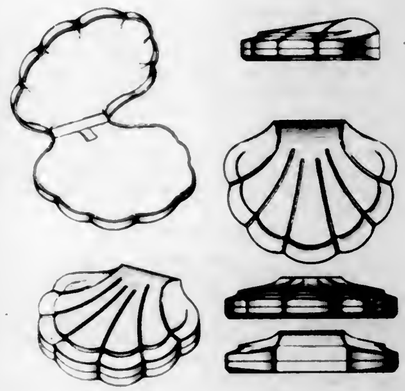
The ornamental design for a greeting card, as shown and described.

166,237
SPOON OR SIMILAR ARTICLE
Grosvenor N. Allen, Oneida, Mary Parker Fleming, Fulton, and Lloyd E. Ressegger, Oneida, N. Y., assignors to Oneida Ltd., Oneida, N. Y., a corporation of New York
Application April 15, 1949, Serial No. 2,016
Term of patent 14 years
(Cl. D54—12)



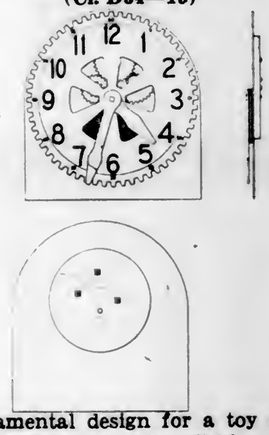
The ornamental design for a spoon or similar article, substantially as shown and described.

166,238
JEWELRY BOX
Frank M. Bedinger, Chicago, Ill., assignor to F. H. Noble & Company, Chicago, Ill., a corporation of Illinois
Application January 9, 1952, Serial No. 17,981
Term of patent 7 years
(Cl. D80—5)



The ornamental design for a jewelry box, substantially as shown.

166,239
TOY CLOCK
Hymie D. Berman, Minneapolis, Minn.
Application February 5, 1951, Serial No. 14,106
Term of patent 14 years
(Cl. D34—15)



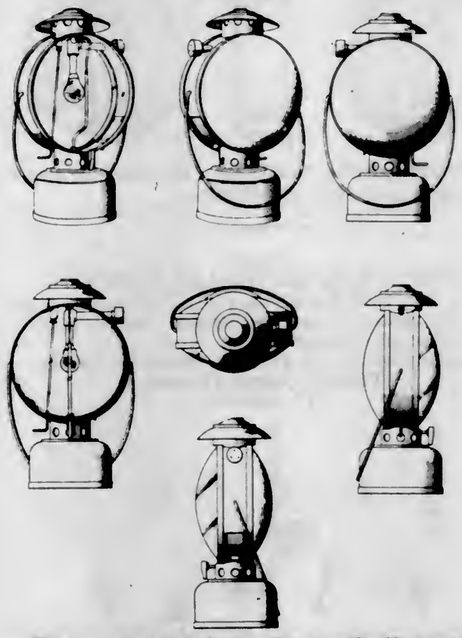
The ornamental design for a toy clock, substantially as shown and described.

166,240
SLIPPER SOCK
John H. Bodorff, Rockford, Ill., assignor to Rockford Textile Mills, Inc., Rockford, Ill., a corporation of Illinois
Application April 6, 1951, Serial No. 14,739
Term of patent 14 years
(Cl. D47—7)



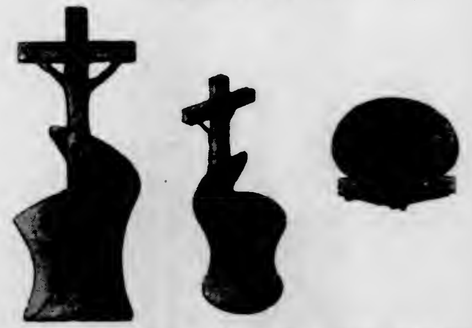
The ornamental design for a slipper sock, substantially as shown and described.

166,241
REFLECTING MANTLE LANTERN
Carl Bramming, Nashville, Tenn., assignor to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois
Application June 2, 1951, Serial No. 15,385
Term of patent 14 years
(Cl. D48—24)



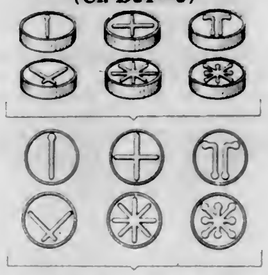
The ornamental design for a reflecting mantle lantern, as shown.

166,242
VASE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application May 12, 1951, Serial No. 15,153
Term of patent 7 years
(Cl. D29—28)



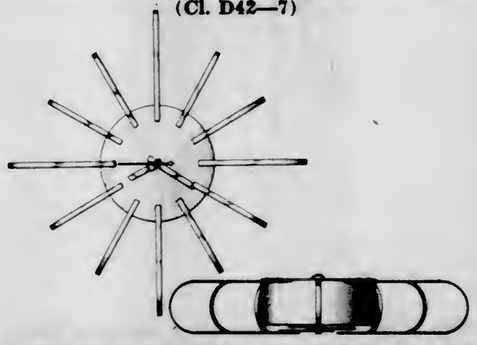
The ornamental design for a vase, substantially as shown.

166,243
SET OF GAME PIECES
James J. Crist, Rockford, Ill.
Application April 5, 1951, Serial No. 14,722
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a set of game pieces, as shown and described.

166,244
CLOCK
Frank Charles Davidhazy, Grand Rapids, Mich.
Application December 6, 1951, Serial No. 17,634
Term of patent 7 years
(Cl. D42—7)



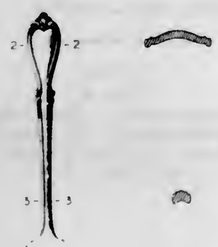
The ornamental design for a clock, as shown and described.

166,245
INDICATING INSTRUMENT FACE
Paul S. Dickey, East Cleveland, and Kenneth A. Wood, South Euclid, Ohio, assignors to Bailey Meter Company, a corporation of Delaware
Application August 14, 1950, Serial No. 11,764
Term of patent 14 years
(Cl. D52—1)



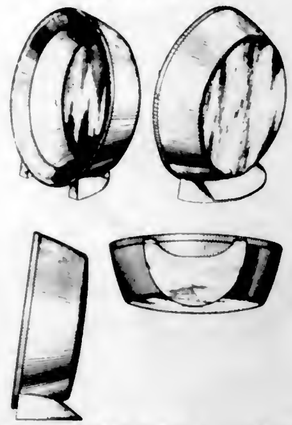
The ornamental design for an indicating instrument face, substantially as shown and described.

166,246
SPOON OR OTHER ARTICLE OF FLATWARE
Robert L. Doerfler, Meriden, Conn., assignor to The International Silver Company, Meriden, Conn., a corporation of Connecticut
Application June 22, 1951, Serial No. 15,634
Term of patent 14 years
(Cl. D54—12)



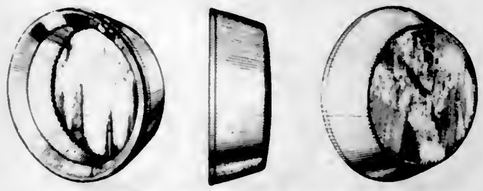
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

166,247
CLOCKCASE OR SIMILAR ARTICLE
Henry Dreyfuss, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application March 21, 1951, Serial No. 14,559
Term of patent 14 years
(Cl. D42—7)



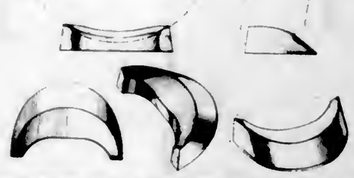
The ornamental design for a clockcase or similar article, substantially as shown.

166,248
CLOCKCASE OR SIMILAR ARTICLE
Henry Dreyfuss, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application March 21, 1951, Serial No. 14,560
Term of patent 14 years
(Cl. D42—7)



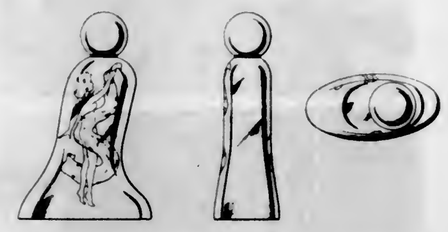
The ornamental design for a clockcase or similar article, substantially as shown.

166,249
CLOCK BASE OR SIMILAR ARTICLE
Henry Dreyfuss, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application March 21, 1951, Serial No. 14,561
Term of patent 14 years
(Cl. D42—7)



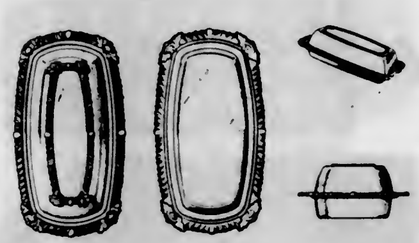
The ornamental design for a clock base or similar article, substantially as shown and described.

166,250
BOTTLE
Elsie G. Ferris, Alpena, Mich.
Application November 5, 1951, Serial No. 17,288
Term of patent 14 years
(Cl. D58—8)



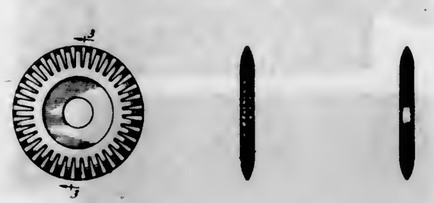
The ornamental design for a bottle, as shown.

166,251
BUTTER DISH
Ben Forman, Brooklyn, N. Y.
Application August 9, 1950, Serial No. 11,675
Term of patent 14 years
(Cl. D44—5)



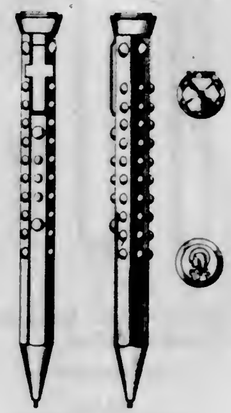
The ornamental design for a butter dish, substantially as shown.

166,252
ERASER
Faust Achilles Fusco, Kew Gardens Hills, N. Y., assignor to Eagle Pencil Company, a corporation of Delaware
Application May 11, 1951, Serial No. 15,138
Term of patent 14 years
(Cl. D74—7)



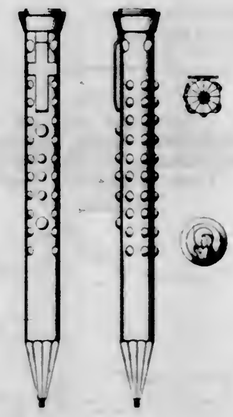
The ornamental design for an eraser, substantially as shown.

166,253
PENCIL
Antoine Gazda, Providence, R. I.
Application December 14, 1949, Serial No. 6,618
Term of patent 14 years
(Cl. D74—24)



The ornamental design for a pencil, substantially as shown and described.

166,254
PENCIL
Antoine Gazda, Providence, R. I.
Application December 14, 1949, Serial No. 6,619
Term of patent 14 years
(Cl. D74—24)



The ornamental design for a pencil, substantially as shown and described.

166,255
PENCIL
Antoine Gazda, Providence, R. I.
Application January 13, 1950, Serial No. 7,195
Term of patent 14 years
(Cl. D74—24)



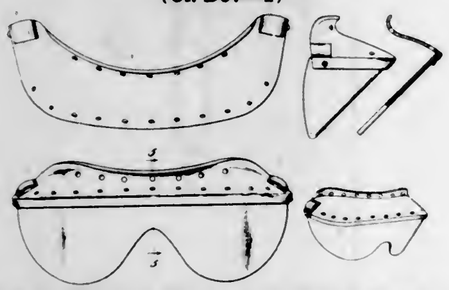
The ornamental design for a pencil, substantially as shown and described.

166,256
KNITTED DRESS
Edward Guttman, New York, N. Y.
Application November 14, 1951, Serial No. 17,407
Term of patent 3½ years
(Cl. D3—26)



The ornamental design for a knitted dress, substantially as shown.

166,257
GOGGLE FRONT
Arthur Kenyon Jones, Rumford, R. I.
Application January 16, 1952, Serial No. 18,088
Term of patent 7 years
(Cl. D57—1)



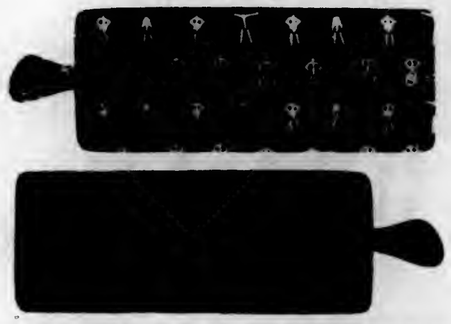
The ornamental design for a goggle front, substantially as shown.

166,258
WALLET OR SIMILAR ARTICLE
Simon Knee, Newark, N. J.
Application January 31, 1952, Serial No. 18,318
Term of patent 14 years
(Cl. D87—3)



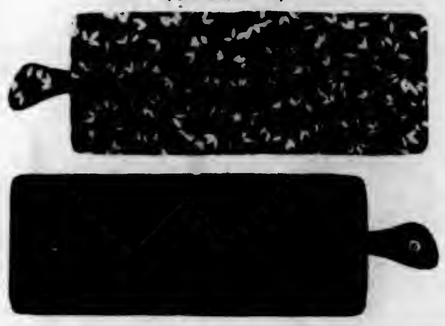
The ornamental design for a wallet or similar article, substantially as shown and described.

166,259
WALLET OR SIMILAR ARTICLE
Simon Knee, Newark, N. J.
Application January 31, 1952, Serial No. 18,319
Term of patent 14 years
(Cl. D87—3)



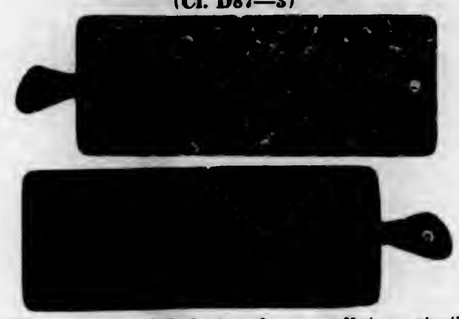
The ornamental design for a wallet or similar article, substantially as shown and described.

166,260
WALLET OR SIMILAR ARTICLE
Simon Knee, Newark, N. J.
Application January 31, 1952, Serial No. 18,320
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a wallet or similar article, substantially as shown and described.

166,261
WALLET OR SIMILAR ARTICLE
Simon Knee, Newark, N. J.
Application January 31, 1952, Serial No. 18,321
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a wallet or similar article, substantially as shown and described.

166,262
WALLET OR SIMILAR ARTICLE
Simon Knee, Newark, N. J.
Application January 31, 1952, Serial No. 18,322
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a wallet or similar article, substantially as shown and described.

166,263
TRANSPARENT COVER FOR RECORD PLAYERS
Lloyd F. Kurschner, Minneapolis, Minn.
Application September 10, 1951, Serial No. 16,593
Term of patent 14 years
(Cl. D58—12)



The ornamental design for a transparent cover for record players, as shown.

166,264
STOCKING
William M. Langer, Berlin, N. J.
Application October 5, 1951, Serial No. 16,841
Term of patent 14 years
(Cl. D47—7



The ornamental design for a stocking, as shown.

166,265
DISPLAY SHELF
Seymour Levy, Tarrytown, N. Y.
Application September 23, 1950, Serial No. 12,322
Term of patent 3½ years
(Cl. D80—1)



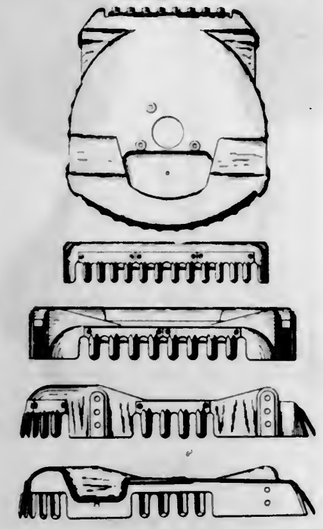
The ornamental design for a display shelf, as shown.

166,266
NEON ADVERTISING SIGN
Rudolph R. Mainini, Jr., West Upton, Mass., assignor to Miscoe Spring Water Company, Mendon, Mass.
Application August 16, 1949, Serial No. 4,538
Term of patent 14 years
(Cl. D1—12)



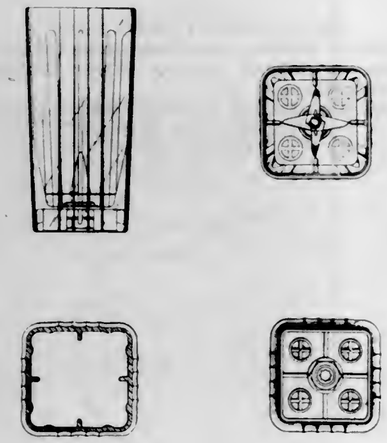
The ornamental design for a neon advertising sign, as shown and described.

166,267
POWER LAWN MOWER BASE
James K. McMaster, Springfield, Mass., assignor to Blair Manufacturing Company, Springfield, Mass., a corporation of Massachusetts
Application December 5, 1951, Serial No. 17,615
Term of patent 7 years
(Cl. D40—1)



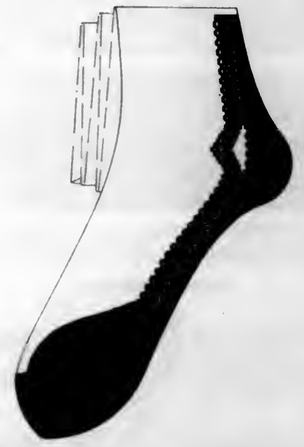
The ornamental design for a power lawn mower base, substantially as shown.

166,268
COMBINED LIQUEFIER JAR AND BEATER ELEMENT
Jack Morgan, Chicago, Ill., assignor to Dormeyer Corporation, Chicago, Ill., a corporation of Illinois
Application April 5, 1951, Serial No. 14,718
Term of patent 14 years
(Cl. D89—1)



The ornamental design for a combined liquefier jar and beater element, as shown and described.

166,269
LADY'S STOCKING
Walter Mueller, Clifton, N. J., assignor of one-half to Richard E. Schletter, Philadelphia, Pa.
Application October 11, 1951, Serial No. 16,900
Term of patent 14 years
(Cl. D47—7)



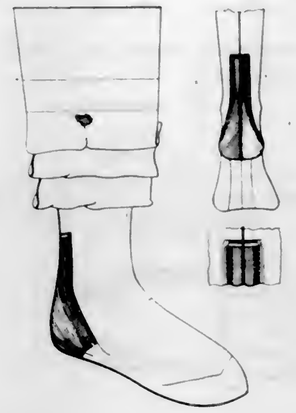
The ornamental design for a lady's stocking, substantially as shown and described.

166,270
LADY'S STOCKING
Walter Mueller, Clifton, N. J., assignor of one-half to Richard E. Schletter, Philadelphia, Pa.
Application October 11, 1951, Serial No. 16,901
Term of patent 14 years
(Cl. D47—7)



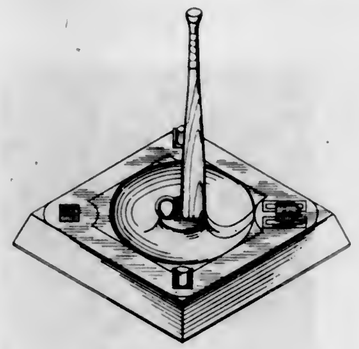
The ornamental design for a lady's stocking, substantially as shown and described.

166,271
LADY'S STOCKING
Richard W. Nordman, Charlotte, N. C., assignor of fifty per cent to Creston Full Fashioned Hosiery Mills, Inc., Charlotte, N. C., a corporation of North Carolina, and fifty per cent to The Lockwood-Butler Company, Charlotte, N. C., a partnership
Application May 1, 1951, Serial No. 15,032
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a lady's stocking, substantially as shown and described.

166,272
ASH TRAY
Dominic R. Perlongo, Chicago, Ill.
Application August 11, 1951, Serial No. 16,234
Term of patent 3½ years
(Cl. D85—2)



The ornamental design for an ash tray, as shown.

166,273
TRANSFER MATERIAL OR THE LIKE
James Plant, Eccleshall, England, assignor to Grimwades Limited, Stoke-on-Trent, England
Application October 22, 1951, Serial No. 17,064
Term of patent 14 years
(Cl. D59—2)



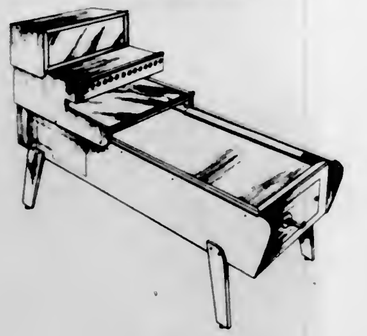
The ornamental design for transfer material or the like, as shown and described.

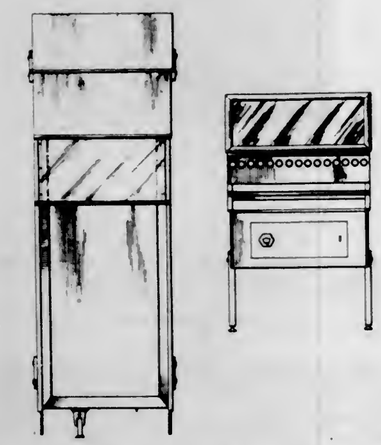
166,274
TRANSFER MATERIAL OR THE LIKE
James Plant, Eccleshall, England, assignor to Grimwades Limited, Stoke-on-Trent, England
Application October 22, 1951, Serial No. 17,065
Term of patent 14 years
(Cl. D59—2)



The ornamental design for transfer material or the like, as shown and described.

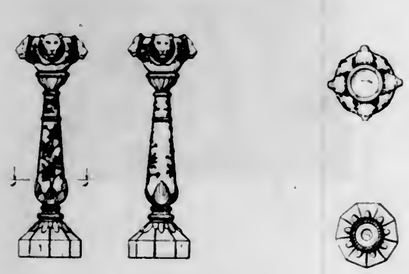
166,275
AMUSEMENT GAME APPARATUS
Duane W. Price, Los Angeles, Calif.
Application October 18, 1951, Serial No. 17,018
Term of patent 14 years
(Cl. D34—5)





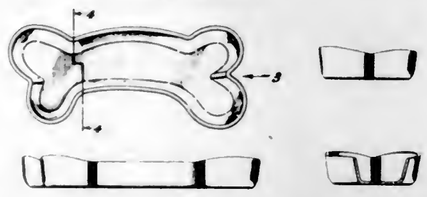
The ornamental design for an amusement game apparatus, as shown.

166,276
COMBINED FLOWER STAND AND FLOWER POT
Lino Salvador, East Hempstead, N. Y.
Application November 21, 1951, Serial No. 17,486
Term of patent 7 years
(Cl. D35—3)



The ornamental design for a combined flower stand and flower pot, as shown.

166,277
DISH OR SIMILAR ARTICLE
Arthur H. Seflin, Los Angeles, Calif.
Application October 3, 1951, Serial No. 16,816
Term of patent 7 years
(Cl. D44—10)



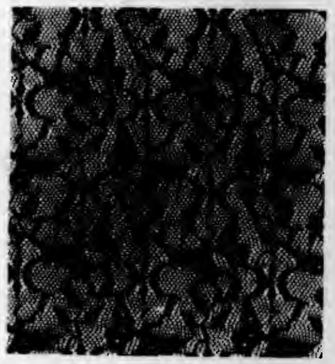
The ornamental design for a dish or similar article, as shown.

166,278
SLIPPER
Myer S. Silver, Brookline, Mass.
Application December 5, 1951, Serial No. 17,608
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a slipper, as shown and described.

166,279
LACE
Aaron S. Staff, New York, N. Y.
Application November 26, 1951, Serial No. 17,519
Term of patent 14 years
(Cl. D47—6)



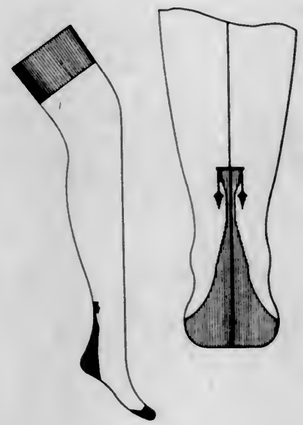
The ornamental design for a lace, as shown.

166,280
STOCKING
Isadore Stillman, Philadelphia, Pa.
Application September 14, 1951, Serial No. 16,634
Term of patent 7 years
(Cl. D47—7)



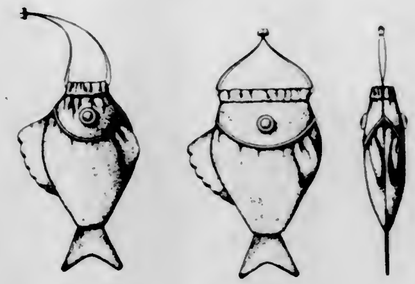
The ornamental design for a stocking, substantially as shown.

166,281
STOCKING
Isadore Stillman, Philadelphia, Pa.
Application September 14, 1951, Serial No. 16,635
Term of patent 7 years
(Cl. D47—7)



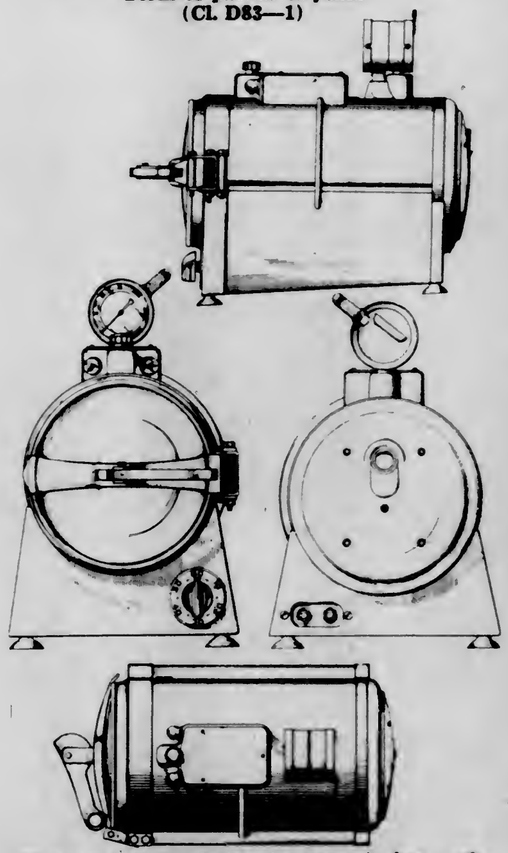
The ornamental design for a stocking, substantially as shown.

166,282
PURSE
Shizuko Tabata, San Mateo, Calif.
Application September 17, 1951, Serial No. 16,666
Term of patent 7 years
(Cl. D87—3)



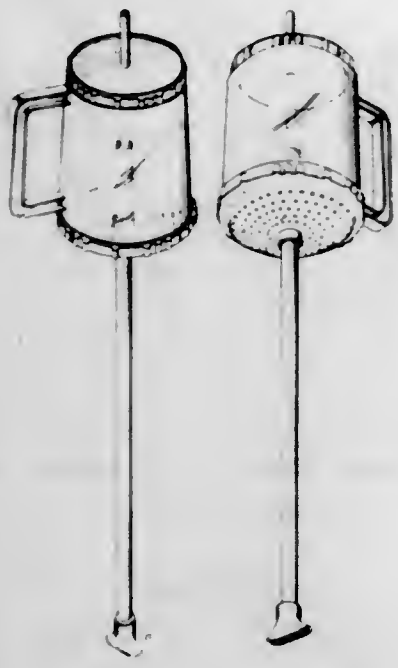
The ornamental design for a purse, as shown.

166,283
AUTOCLAVE
Alfred Vischer, Jr., Park Ridge, Ill.
Application June 7, 1951, Serial No. 15,455
Term of patent 14 years
(Cl. D83—1)



The ornamental design for an autoclave, substantially as shown and described.

166,284
AQUARIUM CLEANER
Sidney Weilburg, New York, N. Y.
Application November 7, 1951, Serial No. 17,312
Term of patent 14 years
(Cl. D9—2)



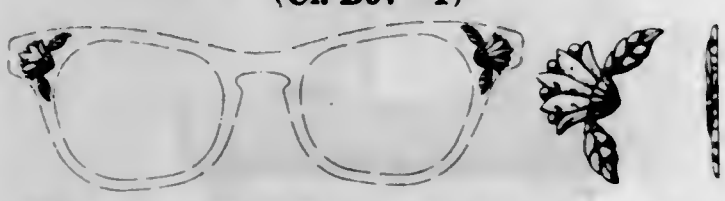
The ornamental design for an aquarium cleaner, substantially as shown.

166,285
TEXTILE FABRIC
Sol Weinberg, New York, N. Y.
Application January 15, 1952, Serial No. 18,061
Term of patent 3½ years
(Cl. D92—1)



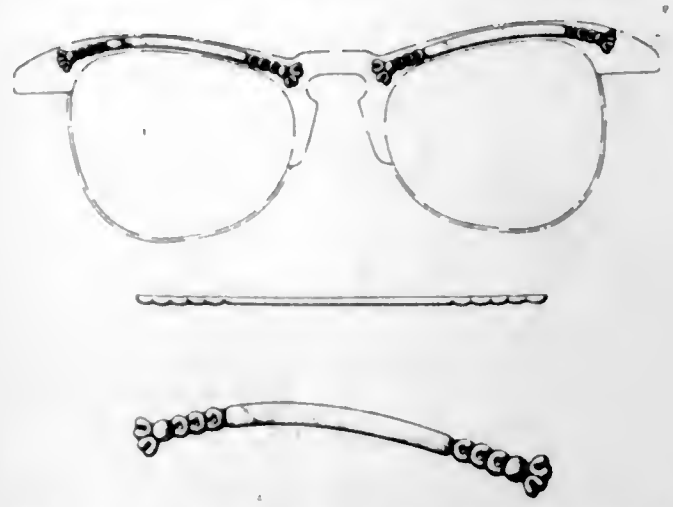
The ornamental design for a textile fabric, substantially as shown.

166,286
SPECTACLE FRONT
Harry Weissman, New Hyde Park, N. Y.
Application January 28, 1952, Serial No. 18,256
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle front, substantially as shown and described.

166,287
SPECTACLE FRONT
Harry Weissman, New Hyde Park, N. Y.
Application January 28, 1952, Serial No. 18,257
Term of patent 14 years
(Cl. D57—1)



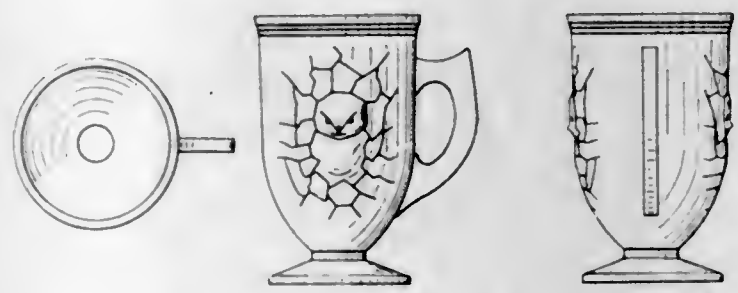
The ornamental design for a spectacle front, substantially as shown and described.

166,288
SPECTACLE FRONT
Harry Weissman, New Hyde Park, N. Y.
Application January 28, 1952, Serial No. 18,258
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a spectacle front, substantially as shown and described.

166,289
EGG CUP OR SIMILAR ARTICLE
Constance Ray White, Beverly Hills, Calif.
Application October 26, 1951, Serial No. 17,135
Term of patent 7 years
(Cl. D44—9)



The ornamental design for an egg cup or similar article, substantially as shown.

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A. R. D. Corporation, New York, N. Y. Plastic compositions. Serial No. 602,871, Apr. 1. Class 1.

Abbott Laboratories, North Chicago, Ill. Hypnotic, anesthetic and sedative preparations. Serial No. 609,834, Apr. 1. Class 18.

Academy Mfg. Drug Corp., New York, N. Y. Medicinal and pharmaceutical preparations. Serial No. 599,799, Apr. 1. Class 18.

Alrose Chemical Company, Cranston, R. I. Surface active agent and detergent. Serial No. 605,395, Apr. 1. Class 52.

Altman, B., & Co., New York, N. Y. Women's shoes. Serial No. 615,362, Apr. 1. Class 39.

American Bancservice Company: *See*—
Silverberg, I. Monte.

American Bildrok Company: *See*—
Wood, W. Wadsworth.

American Manufacturing Concern, Inc., Falconer, N. Y. Toys. Serial No. 601,402, Apr. 1. Class 22.

American Snuff Company, Memphis, Tenn. Snuff. Serial Nos. 560,524–6, Apr. 1. Class 17.

American Wire Fabrics Corporation, New York, N. Y. Plastic sheeting. Serial No. 587,170, Apr. 1. Class 50.

Amole, Incorporated, Tipp City, Ohio. Cream deodorant, hand cream, and hand lotion. Serial No. 595,647, Apr. 1. Class 51.

Andres, Verle, Cosmetics Inc., Chicago, Ill. Skin creams, skin and hair lotions, lipsticks, and rouge. Serial No. 597,573, Apr. 1. Class 51.

Anglo Fabrics Company, Inc., New York, N. Y. Woolen and worsted piece goods. Serial No. 595,754, Apr. 1. Class 42.

Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Colors and pigments. Serial No. 601,411, Apr. 1. Class 11.

Armour and Company, Chicago, Ill. Bacon. Serial No. 531,421, Apr. 1. Class 46.

Ashaway Line & Twine Mfg. Co., Ashaway, R. I. Strings for tennis rackets, etc. Serial No. 605,133, Apr. 1. Class 22.

Atkins & Durbrow, Inc., New York, N. Y. Fertilizers. Serial No. 618,279, Apr. 1. Class 10.

Atlantic Refining Company, The, Philadelphia, Pa. Lubricating oil. Serial No. 614,608, Apr. 1. Class 15.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Sewer joint compound. Serial No. 615,749, Apr. 1. Class 12.

Atlas Powder Company, Wilmington, Del. Decolorizing-carbon. Serial Nos. 610,404–5. Apr. 1. Class 6.

Automatic Steam Products Corp., New York, N. Y. External water filter unit. Serial No. 612,431, Apr. 1. Class 31.

Baldwin-Lima-Hamilton Corporation: *See*—
Baldwin Locomotive Works, The.

Baldwin Locomotive Works, The, now by change of name Baldwin-Lima-Hamilton Corporation, Eddystone, Pa. Hydraulic machinery. Serial No. 595,051, Apr. 1. Class 23.

Barlow & Seelig Manufacturing Company, Ripon, Wis., now by change of name Speed Queen Corporation. Washing machine transmissions. Serial No. 578,862, Apr. 1. Class 24.

Baron, Charlotte M., doing business as Professional Products Company, Toledo, Ohio. Colostomy sets. Serial No. 605,346, Apr. 1. Class 44.

Bear State Packers, Inc., Sanger, Calif. Fresh grapes and fresh deciduous fruits. Serial No. 593,706, Apr. 1. Class 46.

Beck Provision Co., Buffalo, N. Y. Bacon, cooked ham, sweet pickled hams, etc. Serial No. 546,348, Apr. 1. Class 46.

Bellmore Dress Co., Inc., New York, N. Y. Ladies' suits, jackets and dress combinations, jackets, etc. Serial No. 617,276, Apr. 1. Class 39.

Bel-Ray Company, Inc., Madison, N. J. Lubricating compounds. Serial No. 610,539, Apr. 1. Class 15.

Bergen Point Iron Works, Bayonne, N. J. Narrow gauge railway cars. Serial No. 574,566, Apr. 1. Class 19.

Berner, Robert L., Company, Chicago, Ill. Combination package of raw pop corn and popping corn oil. Serial No. 597,191, Apr. 1. Class 46.

Best Made Silk Hosiery Company, Quakertown, Pa. Ladies' hosiery. Serial No. 587,705, Apr. 1. Class 39.

Bio-Cam Products, Inc., Chicago, Ill. Ointment. Serial No. 614,611, Apr. 1. Class 18.

Bishop, Stanley E., doing business as The Ted Bishop Company, Boston, Mass. Men's, women's, and children's golf shoes. Serial No. 617,859, Apr. 1. Class 39.

Bishop, Ted, Company, The: *See*—
Bishop, Stanley E.

Bolling, R. S., doing business under the fictitious name and style of National Silicone Products Co., Los Angeles, Calif. Polishing preparation. Serial No. 592,751, Apr. 1. Class 4.

Bombay Dyeing & Manufacturing Co. Ltd., The, Bombay, India. Cotton piece goods. Serial No. 612,679, Apr. 1. Class 42.

Bott, Leo P., Jr., Chicago, Ill. Advertising and sales promotion services. Serial No. 608,490, Apr. 1. Class 101.

Boyle-Midway Inc., New York, N. Y. Space deodorizing device. Serial No. 590,880, Apr. 1. Class 34.

Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Services rendered manufacturers of all kinds of fabric. Serial No. 619,070, Apr. 1. Class 106.

Brilliant Brothers Co., Boston, Mass. Shoe soles. Serial No. 616,694, Apr. 1. Class 39.

Brinkerhoff, H. E., and Sons Transportation Co., Harrisburg, Pa. Moving, transfer, and storage of all types of household and office furniture. Serial No. 615,151, Apr. 1. Class 105.

Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. Serial No. 612,240, Apr. 1. Class 39.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics in the piece. Serial No. 613,759, Apr. 1. Class 42.

Burlington Mills Corporation, Greensboro, N. C. Women's hosiery. Serial No. 617,076, Apr. 1. Class 39.

Butler Manufacturing Company, Kansas City, Mo. Metal bins and tanks. Serial No. 586,342, Apr. 1. Class 2.

California Fruit Growers Exchange, Los Angeles, Calif. Publications. Serial No. 618,784, Apr. 1. Class 38.

Calvin Chemical Corporation, Miami, Fla. Local anesthetic. Serial No. 608,532, Apr. 1. Class 18.

Campana Corporation, Batavia, Ill. Lotions for the skin. Serial No. 616,814, Apr. 1. Class 51.

Campbell Heating Co., Des Moines, Iowa. Warm air heating systems. Serial No. 602,019, Apr. 1. Class 34.

Canter, George G., doing business as Security Seal Company, New York, N. Y. Self-locking tamperproof seals. Serial No. 599,307, Apr. 1. Class 25.

Capper Laboratories: *See*—
Ross, Welles T.

Caprice of Hollywood, Los Angeles, Calif. Brassières. Serial No. 618,882, Apr. 1. Class 39.

Carbonaro, Dorothy M., doing business as Vita Laboratories, Auburn, N. Y. Formula for the treatment of hypertension. Serial No. 613,898, Apr. 1. Class 18.

Carborundum Company, The, Niagara Falls, N. Y. Abrasive grains, sheet material coated with abrasive grains, etc. Serial No. 611,827, Apr. 1. Class 4.

Cascadian Fruit Shippers, Inc., Wenatchee, Wash. Fresh deciduous fruits. Serial No. 620,540, Apr. 1. Class 46.

Cashman & Massat, Newark, N. J. Shoes. Serial No. 611,076, Apr. 1. Class 39.

Castroville Marketing Cooperative, Inc., Castroville, Calif. Fresh vegetables. Serial No. 619,498, Apr. 1. Class 46.

Central Soya Company, Inc., Fort Wayne, Ind. Livestock and poultry feeds. Serial No. 617,232, Apr. 1. Class 46.

Cerebos Limited, London, England. Preparations consisting of a selected variety of flours blended with salt, caramel and vegetable flavorings. Serial No. 601,535, Apr. 1. Class 46.

Chase, J. L., Company, Chicago, Ill. Upholstered chairs and sofas. Serial No. 558,778, Apr. 1. Class 32.

Cherry-Burrell Corporation, Chicago, Ill. Fluid feeders and proportioning devices. Serial No. 522,824, Apr. 1. Class 23.

Chicago & Southern Air Lines, Inc., Memphis, Tenn. Air transportation. Serial No. 615,155, Apr. 1. Class 105.

Chilcote Company, The, Cleveland, Ohio. Picture mounts. Serial No. 615,880, Apr. 1. Class 37.

Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Antispasmodic and analgesic. Serial No. 607,938, Apr. 1. Class 18.

Ciba Limited, Basel, Switzerland. Antiseptic preparation. Serial No. 609,960, Apr. 1. Class 18.

Ciba Limited, Basel, Switzerland. Pharmaceutical preparations. Serial No. 609,961, Apr. 1. Class 18.

Ciba Pharmaceutical Products, Inc.: *See*—
Ciba Limited.

Cilag Aktiengesellschaft, Schaffhausen, Switzerland. Pharmaceutical preparations. Serial No. 606,273, Apr. 1. Class 18.

Clancy, A. J., Oakland, Calif. Chemical preparations. Serial No. 606,274, Apr. 1. Class 6.

Clarette Co. Inc., The, Los Angeles. Flexible plastic covers. Serial No. 614,424, Apr. 1. Class 50.

Cleevelandt Corporation, New York, N. Y. Fountain pens. Serial No. 618,907, Apr. 1. Class 37.

Clinton Foods Inc.: *See*—
Snow Crop Marketers, Inc.

Coahoma Chemical Co., Inc., Clarksdale, Miss., and Beacon, N. Y. Fertilizers and soil treatment preparations. Serial No. 615,011, Apr. 1. Class 10.

Cointreau Corporation, Pennington, N. J. Apricot liqueur, blackberry liqueur, blackberry flavored brandy, etc. Serial No. 552,038, Apr. 1. Class 49.
Colin Pharmacal Co., Inc., Long Island City, N. Y. Vitamin and mineral preparation. Serial No. 617,279, Apr. 1. Class 18.
Cone Export and Commission Co., Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 604,572, Apr. 1. Class 42.
Confino, Albert, New York, N. Y. Neckties. Serial No. 615,761, Apr. 1. Class 39.
Consolidated Manufacturing Corporation, New Orleans, La. Mops. Serial No. 607,703, Apr. 1. Class 29.
Continental Chemical Corporation, Washington, D. C. Liquid wax. Serial No. 592,613, Apr. 1. Class 4.
Co-Operative Dairies, Inc., Columbus, Miss. Fluid whipping cream, fluid coffee cream, fluid buttermilk, etc. Serial No. 609,785, Apr. 1. Class 46.
Coppes, Inc., Nappanee, Ind. Custom-built kitchen equipment. Serial No. 607,007, Apr. 1. Class 32.
Country Tweeds Incorporated, New York, N. Y. Women's, misses' and juniors' coats. Serial No. 598,892, Apr. 1. Class 39.
Creamery Package Mfg. Company, The, Chicago, Ill. Dairy products processing machinery and equipment. Serial No. 527,835, Apr. 1. Class 31.
Crocker, H. S., Co., Inc., doing business as Crocker-Union and California Artists, San Bruno, Calif. Christmas cards. Serial No. 616,546, Apr. 1. Class 38.
Crocker-Union and California Artists: *See*— Crocker, H. S., Co., Inc.
Crown Willamette Paper Company: *See*— Crown Zellerbach Corporation.
Crown Zellerbach Corporation, also doing business as Crown Willamette Paper Company, San Francisco, Calif. Paper napkins. Serial No. 600,421, Apr. 1. Class 37.
Dan River Mills, Incorporated, Danville, Va. Piece goods. Serial No. 620,955, Apr. 1. Class 42.
Darling Carriage Co., Inc., New York, N. Y. Bed springs, crib springs, covered box springs, etc. Serial No. 602,933. Apr. 1. Class 32.
De La Salle Institute, doing business as Mont La Salle Vineyards, Napa, Calif. Altar wines. Serial No. 511,011, Apr. 1. Class 47.
Diebold, Incorporated, Canton, Ohio. Night depositories for banks. Serial No. 601,540, Apr. 1. Class 25.
Doniger, Arthur, Paper Co., Inc., New York, N. Y. Paper napkins. Serial No. 618,029, Apr. 1. Class 37.
Dorolan, Inc., Closter, N. J. Perfume. Serial No. 616,661, Apr. 1. Class 51.
Double Wear Shoe Co., The: *See*— Kuechle, Harry G.
Draper Brothers Inc., Frederica, Del. Canned vegetables. Serial No. 610,204, Apr. 1. Class 46.
Drew, E. F., & Co., Inc., New York, N. Y. Hydrogenated vegetable shortening. Serial No. 602,754, Apr. 1. Class 46.
Dundalk Products Company, Inc., Baltimore, Md. Antibiotic dental cement. Serial No. 612,733, Apr. 1. Class 44.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyestuffs. Serial No. 617,950, Apr. 1. Class 6.
Ed. Geistlich Söhne A. G. für Chemische Industrie, Wolhusen, Switzerland. Pharmaceutical preparation. Serial No. 611,172, Apr. 1. Class 18.
Ed. Geistlich Söhne A. G. für Chemische Industrie, Wolhusen, Switzerland. Analgesic medical preparation. Serial No. 613,589, Apr. 1. Class 18.
El Patio Sportswear, Inc., St. Louis, Mo. Sports apparel. Serial No. 612,684, Apr. 1. Class 39.
Elson, Jesse, Farm School, Pa. Soil conditioner. Serial No. 602,756, Apr. 1. Class 10.
Essex Wire Corporation, Detroit, Mich. Oil-resistant insulated electrical wire. Serial No. 577,955, Apr. 1. Class 21.
Farmer's Market Bulletin, Inc.: *See*— Wolfe, Jack S.
Federal Cigar Company, Inc., The, Red Lion, Pa. Cigars. Serial No. 598,845, Apr. 1. Class 17.
Fine Arts Litho Company, Dallas, Tex. Blank post cards. Serial No. 600,581, Apr. 1. Class 37.
Fisher Dairy and Cheese Company, doing business as Koneta Foods Company, Wapakoneta, Ohio. Cheese. Serial No. 597,674, Apr. 1. Class 46.
Fisher Manufacturing Company: *See*— Fisher, Roy J.
Fisher, Roy J., doing business as Fisher Manufacturing Company, Rochester, N. Y. Film cement. Serial No. 607,423, Apr. 1. Class 5.
Flex-O-Glass, Inc., Chicago, Ill. Laminated, flexible, metallic-netting reinforced building paper. Serial No. 615,376, Apr. 1. Class 12.
Fluegelman-Riverdale, Inc., doing business as Riverdale Mfg. Co., New York, N. Y. Draperies. Serial No. 589,780, Apr. 1. Class 42.
Food Machinery and Chemical Corporation, San Jose, Calif. Spraying and dusting machines. Serial No. 579,088, Apr. 1. Class 23.
Foregger Company, Inc., The, New York, N. Y. Laryngeal airways, laryngoscopes, oxygen meters and oxygen tents. Serial No. 588,293, Apr. 1. Class 44.
Frederick Post Company, The, Chicago, Ill. Encased set of instruments for mechanical drawing. Serial No. 585,524, Apr. 1. Class 26.
French Manufacturing and Advertising Co.: *See*— Gazan, George A., Jr.
Freydberg, Eric A., doing business as United States Flint Packers, New York, N. Y. Flints for lighters. Serial No. 590,361, Apr. 1. Class 8.
Friedman, B., Shoe Co., Inc., New York, N. Y. Girls' and women's shoes. Serial No. 610,550, Apr. 1. Class 39.
Fritzsche Brothers, Inc., New York, N. Y. Aromatic masking agents. Serial No. 617,241, Apr. 1. Class 6.
Full-Knit Hosiery Mills, Inc., Burlington, N. C. Men's hosiery. Serial No. 611,571, Apr. 1. Class 39.
Gazan, George A., Jr., doing business under the assumed name of French Manufacturing and Advertising Co., Ferndale, Mich. Plastic cases. Serial No. 615,312, Apr. 1. Class 2.
Geff-A Company of America: *See*— Ward, John L.
General Pharmacal Corporation, Los Angeles, Calif. Chemical solution. Serial No. 605,737, Apr. 1. Class 18.
Gerberich-Payne Shoe Co., Mount Joy, Pa. Boys' shoes. Serial No. 613,909, Apr. 1. Class 39.
Gerda Footwear Co., Inc., New York, N. Y. Cowboy boots, shoes and slippers. Serial No. 607,805, Apr. 1. Class 39.
Gerlach, E. A., Company, Inc., Eddington, Pa. Detergent. Serial No. 607,585, Apr. 1. Class 52.
Glucksman, Harold, Brooklyn, N. Y. Women's, men's and children's shoes. Serial No. 606,010, Apr. 1. Class 39.
Goldfarb Bros., New York, N. Y. Cotton fabrics. Serial No. 604,967, Apr. 1. Class 42.
Goldfeder, Sol, New York, N. Y. Sterling silver and silverplated flat-ware and hollow-ware. Serial No. 613,065, Apr. 1. Class 28.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels and soles. Serial No. 616,315, Apr. 1. Class 39.
Gottfried Company, The, Cleveland, Ohio. Women's and misses' suits. Serial No. 617,081, Apr. 1. Class 39.
Grace Company, The, Belton, Mo. Overall garments. Serial No. 593,983, Apr. 1. Class 39.
Grand Chapter of Phi Sigma Kappa, The, Chicago, Ill. Organizing of chapters in a national collegiate fraternity, etc. Serial No. 599,760, Apr. 1. Class 100.
Grandpa Brands Company, doing business as Tom Collins Jr. Co., Cincinnati, Ohio. Nonalcoholic, maltless beverages. Serial No. 608,065, Apr. 1. Class 45.
Gray Brothers Shoes, Inc., Syracuse and New York, N. Y. Leather shoes. Serial No. 606,772, Apr. 1. Class 39.
Gray, Julia C., Manteo, N. C. Dolls and doll clothing. Serial No. 597,750, Apr. 1. Class 22.
Great Atlantic and Pacific Tea Company, The, New York, N. Y. Spaghetti, thin spaghetti, elbow macaroni, etc. Serial No. 612,494, Apr. 1. Class 46.
Greatrex Ltd., New York, N. Y. Leather clothing. Serial No. 598,363, Apr. 1. Class 39.
Green Valley Coal Co.: *See*— Lee, John M.
Griffith Laboratories, Inc., The, Chicago, Ill. Salt composition. Serial No. 570,492, Apr. 1. Class 46.
Gronemeyer Corporation, Wilmington, Del. Aluminum covered thermal insulation. Serial No. 573,877, Apr. 1. Class 12.
Haefeli, John, doing business as Haefeli's Honey Farms, Monte Vista, Colo. Liquid honey. Serial No. 611,840, Apr. 1. Class 46.
Haefeli's Honey Farms: *See*— Haefeli, John.
Hale, Alfred, Rubber Company, North Quincy, Mass. Footwear outsoles. Serial No. 615,220, Apr. 1. Class 39.
Halpern, J., Company, Pittsburgh, Pa. Toy pistols and holster sets. Serial No. 608,310, Apr. 1. Class 22.
Hanlon, Edward E., doing business as Hanlon's, Jamaica Plain, Mass. Men's leather shoes. Serial No. 618,035, Apr. 1. Class 39.
Hanlon's: *See*— Hanlon, Edward E.
Harris Machine Company, Rivera, Calif. Rifle bullets, rifle bullet jackets, gas checks, etc. Serial No. 617,249, Apr. 1. Class 9.
Havva Hosiery Mills: *See*— Joseph, Salom.
Hawick Knitwear Limited, Hawick, Scotland. Knitted articles of outer-wear. Serial No. 583,651, Apr. 1. Class 39.
Heat-X-Changer Co., Inc., The, Brewster, N. Y. Heat exchange units. Serial No. 615,616, Apr. 1. Class 31.
Hebe Sports Limited, London, England. Women's coats, suits, costumes, etc. Serial No. 611,274, Apr. 1. Class 39.
Het Goolsche Schrijfmachinehuis & Handelsonderneming "Beka": *See*— Kerk, Bernhard.
Heyden Chemical Corporation, New York, N. Y. Solutions of formaldehyde and butyl alcohol. Serial No. 607,629, Apr. 1. Class 6.
Hoffman Radio Corporation, Los Angeles, Calif. Tuning units. Serial No. 602,398, Apr. 1. Class 21.
Hollywood Shoe Polish Inc., Richmond Hill, N. Y. Shoe polish. Serial No. 607,022, Apr. 1. Class 4.

Hoyt Brothers, Inc., Newark, N. J. Lemon, cocoanut, butterscotch and chocolate pie crust mix and fillings, etc. Serial No. 607,292, Apr. 1. Class 46.
Hubbard Shoe Company, Incorporated, Rochester, N. H. Women's shoes. Serial No. 599,175, Apr. 1. Class 39.
Huron Milling Company, Harbor Beach, Mich. Laundry starch. Serial Nos. 611,133–4, Apr. 1. Class 6.
Ideal Toy Corporation, Hollis, N. Y. Inflatable toy. Serial No. 618,235, Apr. 1. Class 22.
Ingeniorsfirman Ljung & Lindqvist, Stockholm, Sweden. Gripping and holding machines, cranes, and hoists. Serial No. 574,774, Apr. 1. Class 23.
Ingersoll-Rand Company, Phillipsburg, N. J. and New York, N. Y. Pneumatic hoists. Serial No. 618,906, Apr. 1. Class 23.
International Salt Company, Scranton, Pa. Salt dissolving devices. Serial No. 582,691, Apr. 1. Class 23.
Iso-Sol Company, Inc., The, Brooklyn, N. Y. Ophthalmological preparation. Serial No. 617,501, Apr. 1. Class 18.
Jamestown Lounge Company, Jamestown, N. Y. Household furniture. Serial No. 559,613, Apr. 1. Class 32.
Jamieson Pharmacal Company, Detroit, Mich. Absorbent, alterative and analgesic preparations, antacids, etc. Serial No. 585,121, Apr. 1. Class 18.
Jay, D., Products, Inc., Newark, N. J. Wires covered with fabric or other decorative material. Serial No. 613,994, Apr. 1. Class 40.
Johnston Export Publishing Co., New York, N. Y. Periodical publications. Serial No. 617,250, Apr. 1. Class 38.
Johnston Export Publishing Co., New York, N. Y. Periodical publications. Serial No. 617,252, Apr. 1. Class 38.
Joseph, Shalom, doing business as Havva Hosiery Mills, Chicago, Ill. Women's hosiery. Serial No. 606,780, Apr. 1. Class 39.
Jules Montenier, Inc., Chicago, Ill. Body antiperspirant and deodorant preparation. Serial No. 569,282, Apr. 1. Class 51.
Kahan Co., The, Kansas City, Mo. Boys' clothing. Serial No. 606,782, Apr. 1. Class 39.
Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Chemicals. Serial No. 584,134, Apr. 1. Class 6.
Kendall, C. B., Co., Indianapolis, Ind. Hypertension tablet. Serial No. 617,349, Apr. 1. Class 18.
Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Steel. Serial No. 605,860, Apr. 1. Class 14.
Kerk, Bernhard, trading as Het Goolsche Schrijfmachinehuis & Handelsonderneming "Beka," Hilversum, Netherlands. Thumb tacks. Serial No. 619,884, Apr. 1. Class 13.
Kinder Kraft: *See*— Norman, Elsie F.
Kleinert, I. B., Rubber Company, New York, N. Y. Protective head covering. Serial No. 607,176, Apr. 1. Class 39.
Koneta Foods Company: *See*— Fisher Dairy and Cheese Company.
Kounovsky, Nicholas A., New York, N. Y. Men's, women's and children's exercise suits. Serial No. 602,457, Apr. 1. Class 39.
Kreider, A. S., Shoe Manufacturing Company, Elizabethtown, Pa. Boys' shoes. Serial No. 584,333, Apr. 1. Class 39.
Kuechle, Harry G., doing business as The Double Wear Shoe Co., Minneapolis, Minn. Men's and children's shoes. Serial No. 547,005, Apr. 1. Class 39.
Lancedale Hosiery Company, New York, N. Y. Men's, women's and children's hosiery. Serial No. 602,559, Apr. 1. Class 39.
Lee, Frank H., Company, The, Danbury, Conn. Men's and women's hats and caps. Serial No. 576,340, Apr. 1. Class 39.
Lee, John M., doing business as Green Valley Coal Co., Ligonier, Pa. Coal. Serial No. 594,051, Apr. 1. Class 1.
Les Frigorifères du Littoral, Oestende, Belgium. Frozen (quick-deep frozen) fish and canned fish. Serial No. 591,741, Apr. 1. Class 46.
Les Parfume de Dana, Inc., New York, N. Y. Perfume, cologne, face powder, etc. Serial No. 610,627, Apr. 1. Class 51.
Long Island Cauliflower Distributors, Inc., Riverhead, N. Y. Fresh vegetables. Serial No. 586,095, Apr. 1. Class 46.
Lowe, Joe, Corporation, New York, N. Y. Pencils, pen and pencil sets, etc. Serial No. 580,079, Apr. 1. Class 37.
Luhrs, C. H., & Co.: *See*— Luhrs, Charles H.
Luhrs, Charles H., doing business under the name of C. H. Luhrs & Co., Hackensack, N. J. Tic-tack-toe game. Serial No. 604,482, Apr. 1. Class 22.
Mahler, Frederick H., New York, N. Y. Carbon paper. Serial No. 608,557, Apr. 1. Class 11.
Mammoth Hosiery Mills, Inc., Philadelphia, Pa. Women's hosiery. Serial No. 597,965, Apr. 1. Class 39.
Manson-Smith Co., Inc., Richmond, Va. Window screens. Serial No. 586,033, Apr. 1. Class 12.
Marilyn Hosiery Mill, Lehighton, Pa. Women's hosiery. Serial No. 597,966, Apr. 1. Class 39.
Märki, Emil, Basle, Switzerland. Materials for the production of dental prothesis plates. Serial No. 587,557, Apr. 1. Class 44.
Martin, J. F., Cartage Co., Chicago, Ill. Transportation of freight by automobile truck. Serial No. 546,007, Apr. 1. Class 105.
McClay, Booker, doing business under the trade name Booker McClay Company, Washington, D. C. Waterproof covers for ladies' shoes. Serial No. 607,180, Apr. 1. Class 39.
McClay, Booker, Company: *See*— McClay, Booker.
McDevitt, Betty R.: *See*— McDevitt, Ruth E.
McDevitt, Ruth E., also known as B. R. McDevitt, Silver Spring, Md. Newspaper column. Serial No. 613,517, Apr. 1. Class 38.
McGraw-Hill Company of California, San Francisco, Calif. Industrial and trade magazines. Serial No. 618,974, Apr. 1. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazines. Serial Nos. 618,977–8, Apr. 1. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazines. Serial Nos. 619,426–7, Apr. 1. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Periodical. Serial No. 619,428, Apr. 1. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Publication. Serial No. 619,429, Apr. 1. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazines. Serial No. 619,430, Apr. 1. Class 38.
Mengel Company, The, Louisville, Ky. Plywood panels. Serial No. 616,434, Apr. 1. Class 12.
Merrimac Hat Corporation, Amesbury, Mass. Men's, women's, and children's hats and hat bodies. Serial No. 507,994, Apr. 1. Class 39.
Metadier (Canada) Ltd., Montreal, Quebec, Canada. Pharmaceutical preparation. Serial No. 606,785, Apr. 1. Class 18.
Metal Trims, Incorporated, Youngstown, Ohio. Metal trims. Serial No. 611,292, Apr. 1. Class 13.
Metropolitan Refining Co., Inc., New York and Long Island City, N. Y. Chemical compound. Serial Nos. 617,622–3, Apr. 1. Class 6.
Meyerhoff, Arthur, doing business under the name Meyerhoff Farms, Chicago, Ill. Mineral and vitamin compound. Serial No. 603,804, Apr. 1. Class 18.
Meyerhoff Farms: *See*— Meyerhoff, Arthur.
Meyers, Clarence L., & Co., Philadelphia, Pa. Yarn. Serial No. 618,982, Apr. 1. Class 43.
Midwest Oil Company, Minneapolis, Minn. Lubricating oil and grease. Serial No. 613,598, Apr. 1. Class 15.
Miles, W. H., Shoe Co., Inc., Richmond, Va. Boots and shoes. Serial No. 613,675, Apr. 1. Class 39.
Minnesota and Ontario Paper Company, Minneapolis, Minn. Fiber composition boards. Serial No. 578,090, Apr. 1. Class 12.
Monsanto Chemical Company, St. Louis, Mo. Chemicals. Serial No. 606,159, Apr. 1. Class 6.
Mont La Salle Vineyards: *See*— De La Salle Institute.
Morrison Steel Products Inc., Buffalo, N. Y. Oil and gas burning furnaces. Serial No. 611,710, Apr. 1. Class 34.
Nachman, L., & Son, Inc, Philadelphia, Pa. Women's and misses' textile aprons. Serial No. 543,512, Apr. 1. Class 39.
Namm's, Inc., Brooklyn, N. Y. Men's and boys' shoes, leather and wool gloves, leggings, etc. Serial No. 600,069, Apr. 1. Class 39.
Naphtol-Chemie Offenbach, Offenbach on the Main, Germany. Dyes, dyestuffs, dyestuff intermediates, photographic chemicals, etc. Serial No. 609,186, Apr. 1 Class 6.
Nash, C. A., & Son, Inc., Norfolk, Va. Liquid and paste wax. Serial No. 617,203, Apr. 1. Class 4.
National Cash Register Company, The, Dayton, Ohio. Cement. Serial No. 608,882, Apr. 1. Class 5
National Chair Co., Whitman, Mass. Dinette sets. Serial No. 603,848, Apr. 1. Class 32.
National Plastic Products Company, The, Odenton, Md. Thermoplastic tiles. Serial No. 616,330, Apr. 1. Class 12.
National Silicone Products Co.: *See*— Bolling, R. S.
Noody Products Company, Toledo, Ohio. Noodles, and soup mix, and macaroni. Serial No. 562,946, Apr. 1. Class 46.
Nope Corporation, The, Trenton, N. J. Pharmaceutical preparation. Serial No. 596,234, Apr. 1. Class 18.
Norman, Elsie F., doing business as Kinder Kraft, Kansas City, Mo. Educational services. Serial No. 577,340, Apr. 1. Class 107.
Northwest Paper Company, The, Cloquet, Minn. Fine papers, envelope paper, printing paper, etc. Serial No. 604,921, Apr. 1. Class 37.
Ocie's Products: *See*— Scott, Ocie L.
Oregon Pulp & Paper Company, Salem and Portland, Oreg. Index bristol heavy paper or paper board. Serial No. 612,972, Apr. 1. Class 37.
Oregon Worsted Company, Portland, Oreg. Worsted cloth. Serial No. 620,854, Apr. 1. Class 42.
Ortho Pharmaceutical Corporation, Raritan, N. J. Bag containing a pessary and vaginal creams and jellies. Serial No. 596,353, Apr. 1. Class 44.
Pabst Brewing Company, Chicago, Ill. Desizing agent. Serial No. 598,595, Apr. 1. Class 6.
Pachter Garment Co., Inc., Kansas City, Mo. Ladies' suits and coats. Serial No. 614,956, Apr. 1. Class 39.
Palm Beach Fabrics, Inc., Boynton Beach, Fla. Piece goods. Serial No. 606,169, Apr. 1. Class 42.

Parry, T. R., & Company Limited, London, England. Penetrating lubricating oil. Serial No. 605,226, Apr. 1. Class 15.
Pedigree Fabrics, Inc., New York, N. Y. Woven fabric. Serial Nos. 608,943–4, Apr. 1. Class 42.
Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Chemical substances. Serial No. 607,448, Apr. 1. Class 6.
Pennzoil Company, The, Oil City, Pa. High molecular weight hydrocarbon. Serial No. 615,791, Apr. 1. Class 6.
Penron, Inc., New York, N. Y. Household furniture. Serial No. 614,784, Apr. 1. Class 32.
Permacrease Corporation, New York, N. Y. Chemical composition. Serial No. 617,625, Apr. 1. Class 6.
Phelps-Terkel, Inc., Los Angeles, Calif. Custom tailoring, altering and repairing men's and women's clothing. Serial No. 585,719, Apr. 1. Class 103.
Philadelphia Gear Works, Inc., Philadelphia, Pa. Motor and gear drives. Serial No. 617,767, Apr. 1. Class 23.
Philadelphia Quarts Company of California, Berkeley, Calif. Silicate of soda and silicate of potash. Serial No. 610,630, Apr. 1. Class 6.
Polyestol Inc.: *See*—
Porosan Plastics Limited.
Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y. Electrical apparatus. Serial No. 585,246, Apr. 1. Class 26.
Porosan Plastics Limited, London, England, assignor to Polyestol Inc., New York, N. Y. Medical and surgical dressings. Serial No. 575,668, Apr. 1. Class 18.
Portland Woolen Mills, Inc., Portland, Oreg. Precut blanks for forming filter bags and wholly prefabricated filter bags. Serial No. 616,608, Apr. 1. Class 31.
Premo Rubber Company Limited, Petersfield, England. Complexion and massage brushes, bath brushes, etc. Serial No. 606,567, Apr. 1. Class 29.
Priority Mills, Inc., Minneapolis, Minn. Feed supplement. Serial No. 581,730, Apr. 1. Class 18.
Professional Products Company: *See*—
Baron, Charlotte M.
Pruett, John H., doing business as John H. Pruett Products Co., Houston, Tex. Chemical fluid for cleaning. Serial No. 588,707, Apr. 1. Class 52.
Pruett, John H., Products Co.: *See*—
Pruett, John H.
Pyroxylin Products, Inc., Chicago, Ill. Mixtures of two or more of the following chemicals or chemical compositions; paraffin wax, etc. Serial No. 520,416, Apr. 1. Class 6.
Quikey Manufacturing Co.: *See*—
Stiller, Benjamin.
Raborn, Gladys M., San Antonio, Tex. Dolls' clothing. Serial No. 605,439, Apr. 1. Class 22.
Radiart Corporation, The, Cleveland, Ohio. Automobile aerials. Serial No. 610,141, Apr. 1. Class 21.
Rapp, Mrs. M. B., Santa Monica, Calif. Concentrate for use in treating arthritic conditions. Serial No. 611,531, Apr. 1. Class 18.
Red Wing Shoe Company, Inc., Red Wing, Minn., and Dallas, Tex. Insoles. Serial No. 579,133, Apr. 1. Class 39.
Refined Products Corporation, Lyndhurst, N. J. Cationactive acid detergent and cleaning composition. Serial No. 606,807, Apr. 1. Class 52.
Rezolin, Inc., Los Angeles, Calif. Synthetic resins, foaming agents and accelerators. Serial No. 618,188, Apr. 1. Class 6.
Riegel Paper Corporation, New York, N. Y. Wrapping paper. Serial No. 617,680, Apr. 1. Class 37.
Riverdale Mfg. Co.: *See*—
Fluegelman-Riverdale, Inc.
Romanian Orthodox Missionary Episcopate in America, The, Cleveland, Ohio. Weekly newspaper. Serial No. 608,718, Apr. 1. Class 38.
Rosen & Son Dress Co., Inc., Boston, Mass. Women's dresses. Serial No. 618,818, Apr. 1. Class 39.
Ross, Welles T., doing business as Capper Laboratories, Ontario, Calif. Concentrated vitamin mineral supplement. Serial No. 611,585, Apr. 1. Class 18.
Ross, Will, Inc., Milwaukee, Wis. Plastic sheeting. Serial No. 616,803, Apr. 1. Class 1.
S. E. C. A. Società Esportazione Castagne e Affini, Cuneo, Italy. Fresh and dried chestnuts, and fresh fruits and vegetables. Serial No. 581,030, Apr. 1. Class 46.
Safety Grinding Wheel & Machine Co.: *See*—
Simonds Worden White Company.
St. Regis Paper Company, New York, N. Y. Paper. Serial No. 618,245, Apr. 1. Class 37.
Saks & Company, New York, N. Y. Women's and misses' coats, suits, dresses, etc. Serial No. 618,305, Apr. 1. Class 39.
Salmede, Inc., Miami, Fla. Medicated skin and scalp cream. Serial No. 608,382, Apr. 1. Class 18.
Schaffhausen, Albert N., Sr., St. Paul, Minn. Amusement device. Serial No. 604,170, Apr. 1. Class 22.
Schering Corporation, Bloomfield, N. J. Pharmaceutical preparation. Serial No. 611,455, Apr. 1. Class 18.
Schieffelin & Co., New York, N. Y. Synthetic estrogen. Serial No. 617,266, Apr. 1. Class 18.
Schlott, Norman P., doing business as Warren Oil Company, Omaha, Nebr. Lubricating grease. Serial No. 600,194, Apr. 1. Class 15.
Scolding Locks Corporation, Appleton, Wis. Bob pins. Serial No. 568,341, Apr. 1. Class 40.
Scott, Ocie L., doing business as Ocie's Products, South Bend, Ind. Hair and scalp oil, and pressing oil. Serial No. 614,014, Apr. 1. Class 51.
Sears, Roebuck and Co., Chicago, Ill. Shaving cream and shampoo. Serial No. 559,337, Apr. 1. Class 51.
Sears, Roebuck and Co., Chicago, Ill. Drugs and sundries. Serial No. 559,338, Apr. 1. Class 51.
Sears, Roebuck and Co., Chicago, Ill. Women's and misses' hosiery. Serial No. 581,090, Apr. 1. Class 39.
Sears, Roebuck and Co., Chicago, Ill. Electric sun heat lamps; heating pads (therapeutic), baby bottle sterilizers; etc. Serial No. 586,768, Apr. 1. Class 44.
Security Seal Company: *See*—
Canter, George G.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation for internal use effective against ailments of the alimentary tract. Serial No. 603,501, Apr. 1. Class 18.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation for use in the treatment of anemias and other cases of impoverished blood conditions, etc. Serial No. 617,557, Apr. 1. Class 18.
Shell Chemical Corporation, New York, N. Y. Fertilizer distribution service. Serial No. 595,284, Apr. 1. Class 106.
Sherman Laboratories, Detroit, Mich. Bacterial vaccines, bacterial antigens, antivirus ointments, etc. Serial No. 578,105, Apr. 1. Class 18.
Shoe Corporation of America, Columbus, Ohio. Men's, women's, and children's bowling shoes. Serial No. 605,973, Apr. 1. Class 39.
Silicote Corporation, The, Oshkosh, Wis. Chemically treated polishing cloths. Serial No. 595,163, Apr. 1. Class 29.
Silverberg, I. Monte, doing business as American Bancservice Company, Chicago, Ill. Coin banks. Serial No. 601,236, Apr. 1. Class 37.
Simonds Worden White Company, doing business as Safety Grinding Wheel & Machine Co., Dayton, Ohio. Abrasive grinding wheels. Serial No. 574,654, Apr. 1. Class 4.
Smith, Kline & French Laboratories, Philadelphia, Pa. Unit of medication for oral administration. Serial No. 601,695, Apr. 1. Class 18.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal preparation. Serial No. 606,179, Apr. 1. Class 18.
Smith, Kline & French Laboratories, Philadelphia, Pa. Hormone preparation. Serial No. 607,769, Apr. 1. Class 18.
Snow Crop Marketers, Inc., assignor to Clinton Foods Inc., New York, N. Y. Frozen fruits; frozen fruit juices, frozen vegetables, etc. Serial No. 581,299, Apr. 1. Class 46.
Sofia del Busto Razon, Madrid, Spain. Medicine used for the treatment of obstruction (costiveness). Serial No. 598,117, Apr. 1. Class 18.
Specialty Resins Company, Lynwood, Calif. Synthetic resins. Serial No. 610,192, Apr. 1. Class 6.
Speed Queen Corporation: *See*—
Barlow & Seelig Manufacturing Company.
Spinnerin Yarn Co., Inc., South Hackensack, N. J. Wool yarns. Serial No. 619,042, Apr. 1. Class 43.
Squibb, E. R., & Sons, New York, N. Y. Antihypertensive agent. Serial No. 609,347, Apr. 1. Class 18.
Staley, A. E., Manufacturing Company, Decatur, Ill. Edible vegetable oils. Serial No. 621,532, Apr. 1. Class 46.
Standard Oil Company, The, Cleveland, Ohio. Products derived from petroleum. Serial No. 610,238, Apr. 1. Class 15.
Stephens, W. E., Mfg. Co. Inc., Nashville, Tenn. Work shirts and work pants and dungarees. Serial No. 612,936, Apr. 1. Class 39.
Stetson, John B., Company, Philadelphia, Pa. Hats and caps. Serial No. 603,605, Apr. 1. Class 39.
Stiller, Benjamin, doing business as Quikey Manufacturing Co., Akron, Ohio. Soap holder. Serial No. 601,286, Apr. 1. Class 2.
Stix, Baer and Fuller Company, St. Louis, Mo. Men's and boys' hats. Serial No. 615,909, Apr. 1. Class 39.
Stollwerck, A. N., Inc., Camden, N. J. Baking chocolate. Serial No. 584,944, Apr. 1. Class 46.
Stratton & Terstegge Company, Louisville, Ky. Annual publication. Serial No. 617,218, Apr. 1. Class 38.
Swift & Company, Chicago, Ill. Sausage. Serial No. 588,817, Apr. 1. Class 46.
Swift Trucking Corp., Brooklyn, N. Y. Transporting freight by truck. Serial No. 610,389, Apr. 1. Class 105.
Takara Laboratories Corporation, Hollywood, Calif. Hygienic powder. Serial No. 608,637, Apr. 1. Class 18.
Three Crowns Laboratories, The: *See*—
Worthington, Edith L.
Tom Collins, Jr., Co.: *See*—
Grandpa Brands Company.
Tracy-Burns Enterprises, Inc., Flint, Mich. Cleaning compound. Serial No. 594,928, Apr. 1. Class 52.
Union Carbide and Carbon Corporation, New York, N. Y. Chemical compositions. Serial No. 597,179, Apr. 1. Class 6.
United States Flint Packers: *See*—
Freydberg, Eric A.

U. S. Vitamin Corporation, New York, N. Y. Water solubilized synthetic vitamin A. Serial No. 617,592, Apr. 1. Class 18.
Universal Camera Corporation, New York, N. Y. Paper masks. Serial No. 609,747, Apr. 1. Class 37.
Universal Sales, Inc., Delaware, Ohio. Delivery trucks. Serial No. 619,777, Apr. 1. Class 19.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 602,584, Apr. 1. Class 18.
Upjohn Company, The, Kalamazoo, Mich. Antibiotic ointment preparation. Serial No. 608,841, Apr. 1. Class 18.
Valcort Hosiery Corporation, New York, N. Y. Ladies' hosiery. Serial No. 612,189, Apr. 1. Class 39.
Valley Paper Company, Holyoke, Mass. Writing, typewriter and printing paper. Serial No. 527,646, Apr. 1. Class 37.
Van Cleef Bros., Inc., Chicago, Ill. Adhesive cement. Serial No. 600,999, Apr. 1. Class 5.
Van Cleef Bros., Inc., Chicago, Ill. Adhesive tape. Serial No. 601,003, Apr. 1. Class 5.
Vincel, Chas. E., Pontiac Co., Inc., St. Louis, Mo. Service, repair, maintenance and towing of automobiles and installation of repair parts. Serial No. 589,929, Apr. 1. Class 103.
Vita Laboratories: *See*—
Carbonaro, Dorothy M.
WJW, Inc., Cleveland, Ohio. Radio program broadcasting services. Serial No. 594,086, Apr. 1. Class 104.
Walls Manufacturing Co. Inc., Cleburne, Tex. Boys' and girls' outer garments, and boys' and girls' underwear. Serial No. 597,184, Apr. 1. Class 39.
Ward Baking Company, New York, N. Y. Bread. Serial No. 564,415, published Apr. 1. Class 46.
Ward, John L., doing business as Geff-A Company of America, Valparaiso, Ind. Ready mixed preparation to be made into a batter into which frankfurters are dipped, etc. Serial No. 609,426, Apr. 1. Class 46.
Warren Oil Company: *See*—
Schlott, Norman P.
Washington Steel Products, Inc., Tacoma, Wash. Vegetable storage bins, fruit and vegetable storage bins, fruit storage bins, etc. Serial No. 614,591, Apr. 1. Class 2.
Washington Steel Products, Inc., Tacoma, Wash. Metal drawers. Serial No. 614,592, Apr. 1. Class 32.
Weiner, Martin, Corp., New York, N. Y., and Clifton, N. J. Textile fabrics in the piece. Serial No. 611,732, Apr. 1. Class 42.
Weller, B. I., Co., Chicago, Ill. Equipment used particularly in the handling and transporting of grain or similar material. Serial No. 587,572, Apr. 1. Class 23.
Wells Manufacturing Corporation, Three Rivers, Mich. Motor driven sawing machines. Serial No. 551,598, Apr. 1. Class 23.
West Disinfecting Company, Long Island City, N. Y. Liquid hand cleaner. Serial No. 610,771, Apr. 1. Class 52.
Westfield River Paper Co., Inc., Russell, Mass. Wrapping and transparent papers. Serial No. 599,672, Apr. 1. Class 37.
White Cat Products Co., San Francisco, Calif. Shoe polish, shoe polishing cream, burnishing ink, etc. Serial No. 594,238, Apr. 1. Class 4.
White Feather Hatchery Incorporated, The, Fairmont, Minn. Live baby chicks. Serial No. 616,887, Apr. 1. Class 1.
White, Robert C., Company, Philadelphia, Pa. Detergent. Serial No. 587,920, Apr. 1. Class 52.
Whittall, M. J., Associates, Inc., Worcester, Mass. Textile carpets and rugs. Serial No. 609,016, Apr. 1. Class 42.
Whittall, M. J., Associates, Inc., Worcester, Mass. Textile carpets and rugs. Serial No. 609,154, Apr. 1. Class 42.
Willson Products, Inc., Reading, Pa. Respirators. Serial No. 593,313, Apr. 1. Class 44.
Willson Products, Inc., Reading, Pa. Respirators. Serial No. 593,315, Apr. 1. Class 44.
Wilson, Walter, Pasadena, Calif. Cigarette boxes and cigarette trays. Serial No. 585,617, Apr. 1. Class 8.
Wire-O Corporation, Poughkeepsie, N. Y. Loose-leaf and permanent binders. Serial No. 586,827, Apr. 1. Class 37.
Wirth, Irving, Liberty, N. Y. Ladies' hosiery. Serial No. 611,929, Apr. 1. Class 39.
Wolfe, Jack S., Des Moines, Iowa, assignor, by mesne assignments, to Farmer's Market Bulletin, Inc., Highland Park, Ill. Newspaper. Serial No. 615,148, Apr. 1. Class 38.
Wood, W. Wadsworth, assignor to American Bildrok Company, Chicago, Ill. Pre-mixed dry plaster; pre-mixed concrete, etc. Serial No. 597,563, Apr. 1. Class 12.
Worthington, Edith L., doing business as The Three Crowns Laboratories, Waterloo, Iowa. Shampoos. Serial No. 608,095, Apr. 1. Class 52.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Insecticides. Serial No. 606,586, Apr. 1. Class 6.
Wyeth Incorporated, Philadelphia, Pa. Hyaluronidase and procaine hydrochloride. Serial No. 610,395, Apr. 1. Class 18.
X-Pel Process Company, Inc., Mishawaka, Ind. Body deodorants and local perspiration astringents. Serial No. 613,751, Apr. 1. Class 51.

LIST OF REGISTRANTS OF TRADE-MARKS

Abington Textile Machinery Works, North Abington, Mass. Machines used in textile manufacture. 556,903, Apr. 1; Serial No. 600,640, published Jan. 1, 1952. Class 23.
Ace Specialty Manufacturing Company, Minneapolis, Minn. Corner shields. 556,870, Apr. 1; Serial No. 588,924, published Jan. 8, 1952. Class 13.
Acme Utility Co.: *See*—
Duffy, Walter F.
Adam, J. N., & Co., Buffalo, to Associated Dry Goods Corporation, New York, N. Y. Candy. 287,165, renewed Sept. 15, 1951. O. G. Apr. 1. Class 46.
Adams Plastics Co., Inc., Holyoke, Mass. Plastic handles for cutlery. 556,848, Apr. 1; Serial No. 575,828, published Dec. 18, 1951. Class 23.
Air Reduction Company, Incorporated: *See*—
Air Reduction Sales Company.
Air Reduction Sales Company, to Air Reduction Company, Incorporated, New York, N. Y. Gas mixture. 290,067, renewed Dec. 22, 1951. O. G. Apr. 1. Class 6.
Allegheny Ludlum Steel Corporation: *See*—
Ludlum Steel Co.
Allison, Everett H., Chicago, Ill. Artificial fish lures. 557,011, Apr. 1; Serial No. 618,224, published Jan. 15, 1952. Class 22.
All-Steel Equipment Inc., Aurora, Ill. Hardware. 556,837, Apr. 1; Serial No. 558,432, published Jan. 15, 1952. Class 13.
Alpha Chi Rho Fraternity, New York, N. Y. Organizing of chapters in a national collegiate fraternity and maintaining membership therein. 537,039, Apr. 1; Serial No. 603,564, published Jan. 8, 1952. Class 100.
American Bank Note Company, New York, N. Y. Services in the graphic arts. 577,023, Apr. 1; Serial No. 585,624, published Jan. 15, 1952. Class 101.
American Lava Corporation, Chattanooga, Tenn. Fired ceramic shapes. 556,856, Apr. 1; Serial No. 580,174, published Jan. 1, 1952. Class 30.
American Molasses Co., to American Molasses Company, New York, N. Y. Molasses. 84,799, re-renewed Jan. 9, 1952. O. G. Apr. 1. Class 46.
American Molasses Company: *See*—
American Molasses Co.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, now by merger United States Steel Company. Steel strip. 557,009, Apr. 1; Serial No. 616,807, published Jan. 8, 1952. Class 14.
American Woolen Company, Boston, Mass., and New York, N. Y., to American Woolen Company, New York, N. Y. Woolen piece goods. 294,706, renewed June 7, 1952. O. G. Apr. 1. Class 42.
Arden, Elizabeth, Sales Corporation, New York, N. Y. Face, body, and hair make-up and care. 557,022, Apr. 1; Serial No. 581,927, published Jan. 1, 1952. Class 100.
Artistic Foundations, Inc., New York, N. Y. Brassières. 557,004, Apr. 1; Serial No. 614,801, published Jan. 8, 1952. Class 39.
Asamen Brothers: *See*—
Asamen, Z.
Asamen, Z., Brawley, to Asamen Brothers, Westmoreland, Calif. Fresh deciduous fruits, fresh Persian melons, fresh citrus fruits, etc. 290,890, renewed Jan. 19, 1952. O. G. Apr. 1. Class 46.
Ascher, B. F., & Company, Inc., Kansas City, Mo. Medicinal preparation. 556,969, Apr. 1; Serial No. 612,113, published Nov. 27, 1951. Class 18.
Ashton & Parsons, Ltd., London, by Phosferine (Ashton & Parsons), Limited, London and St. Helens, England. Pills, tablets, and liquids for use as a remedy for weakness, etc. 37,375, Nov. 26, 1901. Republished Apr. 1. Class 18.
Aspinall, Thomas, Limited, Bolton, England. Insect-repelling preparations and waterproof dressings. 293,409, renewed Apr. 19, 1952. O. G. Apr. 1. Class 6.
Associated Dry Goods Corporation: *See*—
Adam, J. N., & Co.
Associated Foods Co.: *See*—
Wheeler, Paul J.
Associated Medical Care Plans: *See*—
Blue Shield Medical Care Plans.
Atkin, William, Co., Inc., New York, N. Y. Men's and boys' dress, negligee, and work shirts; etc. 294,100, renewed May 17, 1952. O. G. Apr. 1. Class 39.
Atlantic Sponge & Chamois Corporation, New York, N. Y. Chamois skins. 364,870, Feb. 14, 1939. Republished Apr. 1. Class 1.
Atlantic Sponge & Chamois Corporation, New York, N. Y. Sponges and chamois skins. 371,157, Sept. 19, 1939. Republished Apr. 1. Class 1.
Atlas Supply Company, Newark, N. J. Cellulose sponges. 556,984, Apr. 1; Serial No. 612,841, published Dec. 25, 1951. Class 1.

Auburn Specialties Company, to The National Bank of Auburn, as executor of the estate of D. E. Belden, Auburn, N. Y. Polishing-cloths. 87,710, re-renewed Aug. 6, 1952. O. G. Apr. 1. Class 29.
Automobile Dealers Associates, Inc., Chicago, Ill. Motor oil. 556,917, Apr. 1; Serial No. 604,895, published Nov. 27, 1951. Class 15.
Avon Sole Company, Avon, Mass. Shoe soles. 557,067, Apr. 1; Serial No. 615,750. Class 39.
BJ Service, Inc., assignee: *See*—
Jackson, Byron, Co.
Backflow Engineering & Equipment Co., Los Angeles, Calif. Backflow prevention valves. 556,847, Apr. 1; Serial No. 575,692, published Jan. 15, 1952. Class 13.
Baker Imperial Co., Inc., New York, N. Y. Articles of china and hand painted china. 556,876, Apr. 1; Serial No. 590,793, published Dec. 25, 1951. Class 30.
Barton Chemical Company, Chicago, Ill. Cleaning preparation. 444,193, Sept. 5, 1950. Republished Apr. 1, Class 52.
Bastian-Blessing Company, The, Chicago, Ill. Soda fountains, beverage dispensing machines, and machines for carbonating beverages. 556,882, Apr. 1; Serial No. 593,051, published Jan. 1, 1952. Class 23.
Baybank Drug Co., Inc.: *See*—
Pineoleum Company, The.
Beamon, Amos R., Los Angeles, Calif. Electrical machines used in the treatment of high blood pressure. 556,950, Apr. 1; Serial No. 610,668, published Jan. 1, 1952. Class 44.
Belden, David E.: *See*—
Auburn Specialties Company.
Bell Company, Inc., The, Chicago, Ill. Fluids used as a fluid coupling for the transmission of power in motor driven devices. 556,889, Apr. 1; Serial No. 594,826, published Nov. 20, 1951. Class 15.
Bell Food Products Co.: *See*—
Dailey Pickle & Canning Company.
Bemis Bro. Bag Company, St. Louis, Mo. Paper bags. 557,077, Apr. 1; Serial No. 563,302. Class 2.
Bennett Manufacturing Company: *See*—
Hinckley, Harriet A.
Berivon Company, The, Meridian, Miss. Fracture fixing pins. 556,991, Apr. 1; Serial No. 613,434, published Jan. 1, 1952. Class 44.
Bernenalpen Milchgesellschaft, trading also as Societe Laitiere des Alpes Bernoises and as Bernese Alps Milk Co., Stalden, Switzerland. Sterilized milk, concentrated milk, condensed milk, etc. 556,836, Apr. 1; Serial No. 557,427, published Dec. 25, 1951. Class 46.
Bernese Alps Milk Co.: *See*—
Berneralpen Milchgesellschaft.
Bertucci, Frank, Malverne, N. Y. Automobiles. 371,003, Sept. 12, 1939. Canceled Feb. 15, 1952. O. G. Apr. 1. Class 19.
Best, John H., & Sons, Inc., Galva, Ill. Display racks and storage racks. 557,066, Apr. 1; Serial No. 615,600. Class 32.
Binkley Coal Company, Chicago, Ill. Coal. 556,842, Apr. 1; Serial No. 563,599, published Dec. 25, 1951. Class 1.
Black Star Coal Company, to Black Star Coal Corporation, Louisville, Ky. Coal. 289,728, renewed Dec. 1, 1951. O. G. Apr 1. Class 1.
Black Star Coal Corporation: *See*—
Black Star Coal Company.
Blue Ridge Glass Corporation, Kingsport, Tenn. Flat glass. 556,955, Apr. 1; Serial No. 611,073, published Dec. 25, 1951. Class 33.
Blue Ridge Glass Corporation, Kingsport, Tenn. Flat glass. 556,956, Apr. 1; Serial No. 611,075, published Dec. 25, 1951. Class 33.
Blue Shield Medical Care Plans, Chicago, Ill., by change of name from Associated Medical Care Plans. Furnishing medical care on a pre-payment basis. 557,037, Apr. 1; Serial No. 589,371, published Jan. 8, 1952. Class 100.
Blue Shield Medical Care Plans, Chicago, Ill. Underwriting the expense of medical care. 557,040, Apr. 1; Serial No. 606,403, published Jan. 8, 1952. Class 102.
Blue Star Malt Shop: *See*—
Bonebrake, Homer.
Bonebrake, Homer, doing business as Blue Star Malt Shop, Los Angeles, Calif. Sandwiches. 557,082, Apr. 1; Serial No. 569,188. Class 46.
Borden Company, The: *See*—
Merrell-Soule Co.
Boston Clock Service: *See*—
Kaats, Alexander.
Boulevard Employment Service, Inc., Chicago, Ill. Employment agency services. 557,029, Apr. 1; Serial No 605,142, published Jan. 15, 1952. Class 101.
Brand & Oppenheimer, Incorporated, New York, N. Y. Cotton piece goods. 556,860, Apr. 1; Serial No. 581,315, published Dec. 25, 1951. Class 42.
Brandão & Companhia, Limitada, Ovar, Portugal, to Brandao & Companhia, Limitada, Matozinhos, Portugal. Canned, pickled, salted, smoked, and preserved fish, canned shellfish, etc. 292,347, renewed Mar. 15, 1952. O. G. Apr. 1. Class 46.
Brawley, T. R., Felt Co. Inc., Brooklyn, N. Y. Cushioned glides. 556,862, Apr. 1; Serial No. 582,019, published Jan 8, 1952. Class 13.
Brewer & Company, Inc., Worcester, Mass. General tonic. 287,399, Sept. 22, 1931. Republished Apr. 1. Class 18.
Brewer & Company Inc., Worcester, Mass. Tonic. 290,038, renewed Dec. 22, 1951. O. G. Apr. 1. Class 18.
Bridal Originals, St. Louis, Mo. Women's and misses' wedding gowns and dresses for formal wear. 556,986, Apr. 1; Serial No. 612,893, published Jan. 8, 1952. Class 39.
Bristol Seamless Ring Co.: *See*—
Kronstadt, Max.
Bristol Seamless Ring Company: *See*—
Kronstadt, Max.
Broad Brook Company, Broad Brook and East Windsor, Conn. Cloth, namely, woolen and worsted fabrics. 556,965, Apr. 1; Serial No. 611,885, published Jan. 8, 1952. Class 42.
Bron-Shoe Company, The, doing business as The Senti-Metal Company, Columbus, Ohio. Plating of sentimentally valuable articles. 557,027, Apr. 1; Serial No. 604,144, published Jan. 8, 1952. Class 106.
Brown, Mme. G. M.: *See*—
Brown, Mrs. Georgia M.
Brown, Mrs. Georgia M., also known as Mme. G. M. Brown, Chicago, Ill. Hair pomade and pressing oil. 556,978, Apr. 1; Serial No. 612,438, published Nov. 27, 1951. Class 51.
Brown, John C., Belleville, N. J. Household hand tools. 556,873, Apr. 1; Serial No. 590,486, published Dec. 11, 1951. Class 23.
Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes. 556,910, Apr. 1; Serial No. 603,758, published Jan. 8, 1952. Class 17.
Brown & Williamson Tobacco Corporation, Louisville, Ky. Cigarettes. 556,911, Apr. 1; Serial No. 603,761, published Jan. 8, 1952. Class 17.
Bubble-O-Bill Company: *See*—
Corcoran, Robert J.
Bubble-O-Bill Corporation, assignee: *See*—
Corcoran, Robert J.
Buchicchio, Joseph J., New Orleans, La. Instructing in the playing of the accordion. 557,030, Apr. 1; Serial No. 605,279, published Jan. 8, 1952. Class 107.
Buffalo Evening News: *See*—
Butler, Edward H.
Buffalo Evening News, Inc., assignee: *See*—
Butler, Edward H.
Butler, Edward H., individually and as trustee under the last will and testament of E. H. Butler, deceased, conducting business under the name and style of Buffalo Evening News, assignor to Buffalo Evening News, Inc., Buffalo, N. Y. Entertainment service. 557,017, Apr. 1; Serial No. 539,647, published Jan. 15, 1952. Class 107.
Cahn, Dorothy, Highland Park, Ill. Sewing boards. 542,181, May 8, 1951. Canceled Feb. 29, 1952. O. G. Apr. 1. Class 40.
Calico Printers' Association Limited, The, Manchester, England. Piece goods. 556,964, Apr. 1; Serial No. 611,826, published Jan. 8, 1952. Class 42.
California Crushed Fruit Corporation, now by change of name Mission Dry Corporation, Ltd., to Mission Dry Corporation, Los Angeles, Calif. Nonalcoholic, maltless beverages and ginger ale. 288,155, renewed Oct. 20, 1951. O. G. Apr. 1. Class 45.
California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Products for use in the control of screw worms and fleece worms. 556,922, Apr. 1; Serial No. 605,628, published July 31, 1951. Class 6.
Campbell Chain Company, York, Pa. Tire chains 557,002. Apr. 1; Serial No. 614,648, published Jan. 15, 1952. Class 13.
Carnac Cottons, Inc., by Carnac, Inc., New York, N. Y. Cotton piece goods. 290,681–2, Jan. 12, 1932. Republished Apr. 1. Class 42.
Carnac, Inc.: *See*—
Carnac Cottons, Inc.
Caron Corporation, New York, N. Y. Perfume. 557,079, Apr. 1; Serial No. 563,663. Class 51.
Cassidy Mfg. Co.: *See*—
Cassidy, Robert K.
Cassidy, Robert K., doing business under the assumed business name of Cassidy Mfg. Co., Vancouver, Wash. Carts for carrying golf bags. 556,936, Apr. 1; Serial No. 609,227, published Jan. 15, 1952. Class 22.
Castle Distributing Corporation, New York, N. Y. Porcelain figurines. 556,935, Apr. 1; Serial No. 608,982, published Nov. 13, 1951. Class 50.
Celwa Products Co.: *See*—
Willig, John H.
Chain Belt Company, Milwaukee, Wis. Belt and grain take-ups and tighteners, apron and pan conveyers and parts thereof, etc. 292,083, Mar. 1, 1932. Amended. O. G. Apr. 1. Class 23.
Chamberlain, Frank H., Co. Inc., Boston, Mass. Men's, boys', and women's hats and caps. 444,676, Apr. 1; Serial No. 519,316, published Nov. 18, 1947. Class 39.
Chamberlain Laboratories, Inc., Des Moines, Iowa. Hand and skin cream. 556,972, Apr. 1; Serial No. 612,243, published Nov. 27, 1951. Class 51.
Chicago Pharmacal Company, Chicago, Ill. Preparation used in the treatment of chafing, roughness of skin, etc. 556,973, Apr. 1; Serial No. 612,244, published Nov. 27, 1951. Class 18.
Chicago Specialty Mfg. Co., Chicago, Ill. Basin wrench. 557,063, Apr. 1; Serial No. 614,287. Class 23.
Cimarron Drug Company: *See*—
Tuggle, Lloyd W.
Clairol Incorporated, Stamford, Conn. Hair tinting and coloring preparations. 556,892, Apr. 1; Serial No. 595,761, published Dec. 25, 1951. Class 51.

Clear Fir Sales Company, Eugene, Oreg. Lumber. 556,833, Apr. 1; Serial No. 553,344, published Nov. 27, 1951. Class 12.
Clinton Foods Inc.: *See*—
Clinton Industries Inc.
Clinton Industries Inc., Clinton, Iowa, now by change of name Clinton Foods Inc. Corn syrup, corn oil, corn gluten, etc. 556,829, Apr. 1; Serial No. 550,023, published Jan. 8, 1952. Class 46.
Columbia River Packers Association, by Columbia River Packers Association, Inc., Astoria, Oreg. Canned salmon. 108,987, Mar. 14, 1916. Republished Apr. 1. Class 46.
Columbia River Packers Association, by Columbia River Packers Association, Inc., Astoria, Oreg. Canned salmon. 113,692, Oct. 31, 1916. Republished Apr. 1. Class 46.
Columbia River Packers Association, Inc.: *See*—
Columbia River Packers Association.
Columbus Dental Manufacturing Co., The, Columbus, Ohio. Metallic backings for artificial teeth. 557,005, Apr. 1; Serial No. 614,818, published Jan. 8, 1952. Class 44.
Conard-Pyle Company, The, West Grove, Pa. Rose plants. 556,945, Apr. 1; Serial No. 610,002, published Nov. 27, 1951. Class 1.
Concord Manufacturing Corporation, Providence, R. I. Jewelry. 556,906, Apr. 1; Serial No. 601,095, published Jan. 1, 1952. Class 28.
Conlon-Moore Corporation, Conlon Division, Joliet and Chicago, Ill. Kits consisting of grooved phonograph records and pictorial illustrations. 556,818, Apr. 1; Serial No. 553,703, published Jan. 15, 1952. Class 36.
Connett Plumbing and Heating: *See*—
Myers, John T.
Consolidated Cosmetics, Chicago, Ill. Cleansing cream, night cream, hand cream, etc. 556,846, Apr. 1; Serial No. 574,134, published Dec. 25, 1951. Class 51.
Consolidated Iron-Steel Mfg. Co., The, Cleveland, Ohio. Sash pulleys. 556,863, Apr. 1; Serial No. 582,559, published Jan. 8, 1952. Class 13.
Copley Fabrics, Inc., New York, N. Y. Rayon piece goods. 556,898, Apr. 1; Serial No. 598,455, published Jan. 8, 1952. Class 42.
Corcoran, Robert J., doing business as Bubble-O-Bill Company, Beverly Hills, assignor to Bubble-O-Bill Corporation, Los Angeles, Calif. Toy guns. 556,946, Apr. 1; Serial No. 610,258, published Jan. 15, 1952. Class 22.
Corset Specialties, Inc., New York, N. Y. Brassières, girdles, and combinations of brassières and girdles. 556,924, Apr. 1; Serial No. 606,074, published Jan. 8, 1952. Class 39.
Cronow Watch Co., Inc., New York, N. Y. Watches. 541,242, Apr. 17, 1951. Canceled Mar. 3, 1952. O. G. Apr. 1. Class 27.
Crosse & Blackwell Company, The, Baltimore, Md. Alcoholic beverages. 557,041, Apr. 1; Serial No. 598,784. Class 49.
Crucible Steel Company of America: *See*—
Halcomb Steel Company.
Crucible Steel Company of America, New York, N. Y. High speed steel. 292,370, renewed Mar. 15, 1952. O. G. Apr. 1. Class 14.
Crucible Steel Company of America, New York, N. Y. Die steel. 292,755, renewed Mar. 29, 1952. O. G. Apr. 1. Class 14.
Cussons, Sons & Company, Limited, Kersal, England. Shaving soap. 291,220, Feb. 2, 1932. Republished Apr. 1. Class 51.
D W G Cigar Corporation: *See*—
Deisel-Wemmer-Gilbert Corporation, The
Dailey Pickle & Canning Company, doing business as Bell Food Products Co., Saginaw, Mich. Pickles. 557,090, Apr. 1; Serial No. 584,183. Class 46.
Dan Dee Pretzel and Potato Chip Company, The, Cleveland, Ohio. Pop corn. 556,966, Apr. 1; Serial No. 611,891, published Dec. 4, 1951. Class 46.
Darrah, Lydia, Candy Co.: *See*—
Darrah, Lydia, Candy Shops, Inc.
Daarah, Lydia, Candy Shops, Inc., to Lydia Darrah Candy Co., Minneapolis, Minn. Candies. 189,215, Sept. 16, 1924. New certificate. O. G. Apr. 1. Class 46.
Davies, Theo. H., Company, Ltd., Honolulu, Territory of Hawaii, to Peter Pan, Incorporated, Pecatonica, Ill. Canned pineapple. 84,819, re-renewed Jan. 9, 1952. O. G. Apr. 1. Class 46.
Dayton Folding Box Company, The, Harrison, Ohio. Collapsible cardboard cartons. 557,057, Apr. 1; Serial No. 609,031. Class 2.
Decker, Alfred, & Conn, Inc., to Society Brand Clothes, Inc., Chicago, Ill. Overcoats and men's suits, etc. 292,991, renewed Apr. 5, 1952. O. G. Apr. 1. Class 39.
Decker, Alfred, & Cohn, Inc., to Society Brand Clothes, Inc., Chicago, Ill. Men's suits. 294,106, renewed May 17, 1952. O. G. Apr. 1. Class 39.
Decker, Alfred, & Cohn, Inc., to Society Brand Clothes, Inc., Chicago, Ill. Men's suits. 294,531, renewed May 31, 1952. O. G. Apr. 1. Class 39.
Deisel-Wemmer-Gilbert Corporation, The, to D W G Cigar Corporation, Detroit, Mich. Cigar. 292,832, renewed Mar. 29, 1952. O. G. Apr. 1. Class 17.
Diamond Silver Company, to Diamond Silversmiths, Limited, Lambertville, N. J. Silver plated tableware. 287,234, renewed Sept. 15, 1951. O. G. Apr. 1. Class 28.
Diamond Silversmiths, Limited: *See*—
Diamond Silver Company.
Diana Manufacturing Company, Green Bay, Wis. Sanitary pads. 294,545, renewed May 31, 1952. O. G. Apr. 1. Class 44.
Diemente, Joseph: *See*—
Hinckley, Harriet A.
Disney Color-Ad Inc., Chicago, Ill. Advertising services. 557,032, Apr. 1; Serial No. 611,078, published Jan. 15, 1952. Class 101.
Distributors Photo Finishing Co., Cincinnati, Ohio. Developing, enlarging, reproducing, coloring and printing fo pictures. 557,024, Apr. 1; Serial No. 590,873, published Jan. 8, 1952. Class 106.
Ditta Frugone & Preve S. P. A.: *See*—
Frugone & Preve.
Dodge & Olcott, Inc., Inc., New York, N. Y. Essential oils and aromatic chemicals, vanilla and flavor bases for use in pharmaceuticals, etc. 556,989, Apr. 1; Serial No. 613,055, published Dec. 25, 1951. Class 18.
Drive-Lok Pin Company, Sycamore, Ill. Self-locking metallic pins. 557,080, Apr. 1; Serial No. 564,438. Class 13.
Druid Hill Park Seed Corporation, Baltimore, Md. Grass seeds. 556,941, Apr. 1; Serial No. 609,848, published Nov. 13, 1951. Class 1.
Drummondville Cotton Company, Limited, Montreal, Quebec, Canada. Threads. 556,918, Apr. 1; Serial No. 604,959, published Jan. 8, 1952. Class 43.
Duffy, Walter F., doing business as Acme Utility Co., Franklin, N. H. Meat tendering machines. 294,184, renewed May 24, 1952. O. G. Apr. 1. Class 23.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Single ply polytetrafluoroethylene coated or impregnated glass fabrics and laminates thereof. 556,990, Apr. 1; Serial No. 613,364, published Dec. 25, 1951. Class 1.
Eaton & Eustis Company, Boston, Mass. Mixed nuts. 557,091, Apr. 1; Serial No. 585,837. Class 46.
Edouard Perfume Company, Inc., Cleveland, Ohio. Perfume. 556,853, Apr. 1; Serial No. 577,527, published May 29, 1951. Class 51.
Ehle, Robert W., Syracuse, N. Y. Entertainment through the medium of television programs. 557,031, Apr. 1; Serial No. 608,498, published Jan. 15, 1952. Class 107.
Eisenberg, J., Inc., New York, N. Y. Reprocessed wool, rayon, silk, cotton, etc. 556,948, Apr. 1; Serial No. 610,617, published Dec. 25, 1951. Class 1.
Ekco Products Company, Chicago, Ill. Culinary tools. 556,900, Apr. 1; Serial No. 598,718, published Jan. 1, 1952. Class 23.
Electrolux Corporation, Dover, Del., and New York, N. Y. Service, maintenance and repair of vacuum cleaners and flour polishers, and accessories therefor, etc. 557,026, Apr. 1; Serial No. 603,777, published Jan. 8, 1952. Class 103.
Elliott-Morris Co., The: *See*—
Sloan, George.
Enterprise Aluminum Company, The, Massillon, Ohio. Metal canisters. 292,371, renewed Mar. 15, 1952. O. G. Apr. 1. Class 2.
Etablissements Ed. Jaeger to Etablissements Ed. Jaeger, Levallois-Perret, Seine, France. Horological instruments, watches of all kinds, clocks, etc. 294,132, renewed May 17, 1952. O. G. Apr. 1. Class 27.
Everedy Company, The, Frederick, Md. Metal hollow ware. 556,861, Apr. 1; Serial No. 581,803, published Jan. 8, 1951. Class 13.
Excell Manufacturing Company, Providence, R. I. Jewelry. 556,824–5, Apr. 1; Serial Nos. 541,528–9, published Apr. 4, 1950. Class 28.
Extraction & Chemical Company Inc., New York, N. Y. Mouthwashes. 556,869, Apr. 1; Serial No. 585,919, published Jan. 1, 1952. Class 51.
Faber, A. W., Stein, Germany, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J. Crayons, chalks, pencil leads, etc. 86,582, re-renewed May 21, 1952. O. G. Apr. 1. Class 37.
Faber, A. W., Stein, Germany, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J. Lead pencils, colored pencils, copying pencils, etc. 86,583, rerenewed May 21, 1952. O. G. Apr. 1. Class 37.
Faber-Castell, A. W., Pencil Co., Inc.: *See*—
Faber, A. W.
Fairbanks, Morse & Co., Chicago, Ill. Electric dynamos and motors. 140,593, Mar. 22, 1921. Republished Apr. 1. Class 21.
Fairbanks, Morse & Co., Chicago, Ill. Internal combustion engines. 405,630, Feb. 8, 1944. Republished Apr. 1. Class 23.
Fairbanks, Morse & Co., Chicago, Ill. Self-propelled and manually propelled rail cars. 407,065, May 16, 1944. Republished Apr. 1. Class 19.
Fairbanks, Morse & Co., Chicago, Ill. Weighing machines, scales, balances and parts thereof. 425,696, Dec. 3, 1946. Republished Apr. 1. Class 26.

Fairbanks, Morse & Co., Chicago, Ill. Weighing machines, scales, balances and parts thereof. 443,058, July 12, 1949. Republished Apr. 1. Class 26.

Fairbanks, Morse & Co.: *See*—
Pomona Manufacturing Company.
Western Pump Company.

Falcon Record Company, Mission, Tex. Grooved phonograph records. 556,929, Apr. 1; Serial No. 606,703, published Jan. 15, 1952. Class 36.

Farmers Educational and Cooperative Union of America, Denver, Colo. Services comprising the dissemination of information pertaining to farming and related industries. 557,013, Apr. 1; Serial No. 531,900, published Jan. 8, 1952. Class 102.

Faultless Caster Corporation, Evansville, Ind. Hard tread furniture caster wheels. 556,828, Apr. 1; Serial No. 548,353, published Aug. 14, 1951. Class 13.

Feder, Jack, Forest Hills, N. Y. Sewing machines and sewing machine parts. 557,043–4, Apr. 1; Serial Nos. 601,611–12. Class 23.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils, aromatic chemicals. 556,887–8, Apr. 1; Serial Nos. 594,210–11, published Nov. 27, 1951. Class 18.

Firmenich Incorporated, New York, N. Y. Natural or synthetic essential oils, aromatic chemicals, etc. 556,921, Apr. 1; Serial No. 605,476, published Nov. 27, 1951. Class 51.

Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.

Flanders, Harold V., doing business as Flanders Poultry Farm, North Weare, N. H. Hatching eggs. 557,056, Apr. 1; Serial No. 608,987. Class 1.

Flanders Poultry Farm: *See*—
Flanders, Harold V.

Flotill Products, Incorporated, Stockton, Calif. Canned fruits. 556,820, Apr. 1; Serial No. 536,884, published Dec. 25, 1951. Class 46.

Fox Candy Company: *See*—
Fox, Harvey C.

Fox, Harvey C., doing business as Fox Candy Company, Cleveland, Ohio. Candy. 556,819, Apr. 1; Serial No. 535,018, published Jan. 8, 1952. Class 46.

Frugone & Preve, by Ditta Frugone Preve S. P. A., Genoa, Italy. Rice. 279,235, Jan. 13, 1931. Republished Apr. 1. Class 46.

G & W Leather Goods Supply Co., Inc., New York, N. Y. Backings for use in the making of belts. 556,993, Apr. 1; Serial No. 613,811, published Jan. 15, 1952. Class 40.

Gaybird Limited, Prestwood, Great Missenden, England. Eggs, game and poultry, all for breeding purposes. 556,923, Apr. 1; Serial No. 605,736, published Dec. 25, 1951. Class 1.

Gaymont Laboratories, Inc., Chicago, Ill. Flavored and unflavored yogurt, yogurt drinks, natural and processed cheese, etc. 556,999, Apr. 1; Serial No. 614,548, published Dec. 18, 1951. Class 46.

General Motors Corporation, Detroit, Mich. Complete power transmission units. 556,834, Apr. 1; Serial No. 554,107, published Jan. 1, 1952. Class 23.

Gifford Company, The, New York, N. Y. Medicine for the treatment of anemia. 344,035, Mar. 9, 1937. Canceled Feb. 15, 1952. O. G. Apr. 1. Class 18.

Gloversville Knitting Company, Gloversville, N. Y. Lining fabrics. 556,974, Apr. 1; Serial No. 612,251, published Jan. 8, 1952. Class 42.

Goddard and Goddard Company, Detroit, Mich. Inserted blades for rotary metal cutting tools and tools embodying such blades. 557,085, Apr. 1; Serial No. 579,318. Class 23.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Material composed of an elastomer and a resin in the form of sheets or slabs. 556,954, Apr. 1; Serial No. 610,964, published Dec. 25, 1951. Class 1.

Gotham Hosiery Company, Inc., New York, N. Y. Women's hosiery. 556,866–7, Apr. 1; Serial Nos. 584,762–3, published June 5, 1951. Class 39.

Governor and Company of Adventurers of England trading into Hudson's Bay, The, trading as Hudson's Bay Company, London, England. Woolen blankets. 291,623–5, renewed Feb. 23, 1952. O. G. Apr. 1. Class 42.

Governor and Company of Adventurers of England trading into Hudson's Bay, The, trading as Hudson's Bay Company, London, England. Woolen blankets. 291,636, renewed Feb. 23, 1952. O. G. Apr. 1. Class 42.

Governor and Company of Adventurers of England trading into Hudson's Bay, The, trading as Hudson's Bay Company, London, England. Woolen blankets. 291,637–39, renewed Feb. 23, 1952. O. G. Apr. 1. Class 42.

Gradias, Annis & Co., Inc., Tampa, Fla. Cigars. 557,047, Apr. 1; Serial No. 603,679. Class 17.

Graham, Marshall D., Corporation, Los Angeles, Calif. Real estate brokerage, general insurance brokerage, and real estate appraising. 557,093, Apr. 1; Serial No. 597,680. Class 102.

Great Trails Broadcasting Corporation, Dayton, Ohio. Radio program broadcasting. 557,015, Apr. 1; Serial No. 533,017, published Jan. 8, 1952. Class 101.

Greeff Fabrics, Inc., New York, N. Y. Textile fabrics in the piece. 556,980, Apr. 1; Serial No. 612,542, published Jan. 8, 1952. Class 42.

Gregg Lumber Company, Grand Rapids, Mich. Plaster aggregate. 556,877, Apr. 1; Serial No. 591,294, published Jan. 1, 1952. Class 12.

Greif Bros. Co., The, Cleveland, to The Greif Bros. Cooperage Corporation, Delaware, Ohio. Casks and barrels. 85,344, re-renewed Feb. 13, 1952. O. G. Apr. 1. Class 2.

Greif Bros. Cooperage Corporation, The: *See*—
Greif Bros. Co., The.

Gruen Watch Company, The, Cincinnati, Ohio. Watch lubricating oil. 557,055, Apr. 1; Serial No. 607,806. Class 15.

Gulick, Robert L., Jr., doing business under the name International Foods, Berkeley, Calif. Frozen abalone. 557,045, Apr. 1; Serial No. 601,616. Class 46.

Haas, Robert A., Philadelphia, Pa. Visual idea plotting guide for artists, designers, etc. 556,886, Apr. 1; Serial No. 594,045, published Dec. 4, 1951. Class 50.

Halcomb Steel Company, Geddes, Syracuse, to Crucible Steel Company of America, New York, N. Y. High speed steel. 292,369, renewed Mar. 15, 1952. O. G. Apr. 1. Class 14.

Hamer, Hamer & Hamer, Orlando, Fla. Medicinal hair tonic and preparation for treating diseases of the skin. 556,845, Apr. 1; Serial No. 574,032, published Dec. 18, 1951. Class 18.

Hammond Iron Works, Warren, Pa. Metal tanks and combination metal and concrete tanks. 557,073, Apr. 1; Serial No. 515,834. Class 2.

Hancock, John, Mutual Life Insurance Company, Boston, Mass. Underwriting of life and endowment insurance, annuity and pure endowment insurance, etc. 557,033, Apr. 1; Serial No. 612,393, published Jan. 15, 1952. Class 102.

Happé Products Limited, London, England. Imitation costume jewelery. 556,944, Apr. 1; Serial No. 609,972, published Dec. 25, 1951. Class 28.

Har-Mar Seed Service: *See*—
Harper & Martin.

Harper & Martin, also doing business as Har-Mar Seed Service, Cromwell, Ind. Field and garden seeds. 556,928, Apr. 1; Serial No. 606,536, published Nov. 27, 1951. Class 1.

Harry and David, Medford, Oreg. Plant bulbs. 556,961, Apr. 1; Serial No. 611,646, published Dec. 25, 1951. Class 1.

Hart, John M., Anderson, Ind. Installing and servicing two-way intercommunication mobile telephones. 557,094, Apr. 1; Serial No. 603,528. Class 103.

Hat Corporation of America: *See*—
Hodshon-Berg, Incorporated.

Heede, B. M., Inc., New York, N. Y. Silos. 557,048, Apr. 1; Serial No. 603,712. Class 2.

Helburn, Willard, Inc., Peabody, Mass. Leather. 556,962, Apr. 1; Serial No. 611,782, published Dec. 25, 1951. Class 1.

Hijos De Carlos Albo, Candas, Arena, Lastres, Spain, and New York, N. Y., to Hijos De Carlos Albo S. A., Santona, Spain. Preserved, pickled, salted, and canned fish. 290,513, renewed Jan. 5, 1952. O. G. Apr. 1. Class 46.

Hijos De Carlos Albo S. A.: *See*—
Hijos De Carlos Albo.

Hillman, O. L.: *See*—
Hillman, W. L. and O. L.

Hillman, W. L. and O. L., Madden, Miss. Sorghum flavored syrup. 556,975, Apr. 1; Serial No. 612,260, published Dec. 4, 1951. Class 46.

Hillsborough Packing Company, Tampa, Fla. Fresh citrus fruits. 556,957, Apr. 1; Serial No. 611,130, published Dec. 4, 1951. Class 46.

Hillyard Chemical Company, St. Joseph, Mo. Cleaning compound. 294,507, renewed May 31, 1952. O. G. Apr. 1. Class 52.

Hilo Company, The: *See*—
Nuernberg, Fritz W.

Hinckley, Harriet A., doing business as Bennett Manufacturing Company, Springfield, Mass., to J. Diemente, New Britain, Conn. Cleaning preparation. 290,757, renewed Jan. 12, 1952. O. G. Apr. 1. Class 52.

Hodshon-Berg, Incorporated, Norwalk, Conn., and New York, N. Y., to Hat Corporation of America, Norwalk, Conn. Felt hats. 294,678, renewed June 7, 1952. O. G. Apr. 1. Class 39.

Honig, Jack, doing business under the fictitious name of Honig Watch Company, Los Angeles, Calif. Watches. 556,968, Apr. 1; Serial No. 612,074, published Dec. 25, 1951. Class 27.

Honig Watch Company: *See*—
Honig, Jack.

Hopper, Schuyler, Co., The: *See*—
Hopper, W., Schuyler.

Hopper, W., Schuyler, doing business as The Schuyler Hopper Co., New York, N. Y. Advertising services. 557,019, Apr. 1; Serial No. 567,916, published Jan. 8, 1952. Class 101.

Huber, J. M., Corporation, Red Bank, N. J., and New York, N. Y. Clay. 556,981, Apr. 1; Serial No. 612,693, published Dec. 25, 1951. Class 1.

Huber, J. M., Corporation, Red Bank, N. J., and New York, N. Y. Clay. 556,995, Apr. 1; Serial No. 613,914, published Dec. 25, 1951. Class 1.

Hudson's Bay Company: *See*—
Governor and Company of Adventurers of England trading into Hudson's Bay, The.

Humble Oil & Refining Company, Houston, Tex. Refined, semirefined, and unrefined oils, etc. 556,875, Apr. 1; Serial No. 590,597, published Nov. 27, 1951. Class 15.

Illinois Watch Case Co., Elgin, Ill. Watchcases. 85,864, re-renewed Mar. 26, 1952. O. G. Apr. 1. Class 27.

Instrument Specialties Company, Inc., West Paterson, N. J. Springs made and sold in strip form. 557,049, Apr. 1; Serial No. 603,928. Class 21.

Interchemical Corporation, New York, N. Y. Etching of plates and cylinders and the furnishing of advisory services. 557,018, Apr. 1; Serial No. 561,313, published Jan. 8, 1952. Class 106.

Intermountain Transportation Company, Anaconda, Mont. Bus transportation services. 557,034, Apr. 1; Serial No. 612,743, published Jan. 15, 1952. Class 105.

International Foods: *See*—
Gulick, Robert L., Jr.

Jackson, Byron, Co., Los Angeles, assignor to BJ Service, Inc., Long Beach, Calif. Oil field services. 557,020, Apr. 1; Serial No. 577,673, published Jan. 15, 1952. Class 103.

Janalyn Laboratories, Inc., The, Worcester, Mass. Cosmetic. 556,893, Apr. 1; Serial No. 596,924, published Nov. 27, 1951. Class 51.

Jaxton Manufacturing Corporation, Glens Falls, N. Y. Toy trucks. 556,934, Apr. 1; Serial No. 608,870, published Jan. 15, 1952. Class 22.

Jefferson Union Company, Inc., New York and Lockport, N. Y., and Lexington, Mass., to Jefferson Union Company, Inc., Lexington, Mass. Metal pipe fittings. 288,070, renewed Oct. 20, 1951. O. G. Apr. 1. Class 13.

Jelenko, J. F., & Co., Inc., New York, N. Y. Gold alloy used for dental purposes. 557,003, Apr. 1; Serial No. 614,664, published Jan. 8, 1952. Class 44.

Jenkins, George O., Company, Bridgewater, Mass. Fibreboard which is a leather substitute. 556,949, Apr. 1; Serial No. 610,622, published Nov. 13, 1951. Class 50.

Kaatz, Alexander, doing business as Boston Clock Service, Boston, Mass. Clocks and watches. 556,883, Apr. 1; Serial No. 593,178, published Nov. 27, 1951. Class 27.

Karmen, B. H., doing business under the name Palm Springs Ceramics, Banning, Calif. Chinaware and earthenware. 556,874, Apr. 1; Serial No. 590,353, published Nov. 27, 1951. Class 30.

Kaufman, Annette, Woodbridge, N. J. Women's, girls', and children's one and two-piece pajama sets and nightgowns. 556,835, Apr. 1; Serial No. 557,046, published Mar. 7, 1950. Class 39.

Kayser, Julius, & Co., New York, N. Y. Ladies' underwear. 292,590, renewed Mar. 15, 1952. O. G. Apr. 1. Class 39.

Kendall Refining Company, The, Bradford, Pa. Lubricating oils. 556,839, Apr. 1; Serial No. 561,020, published Nov. 27, 1951. Class 15.

Klik Enterprises, Inc., New York, N. Y. Chain and clip ornamented with precious metal. 556,919, Apr. 1; Serial No. 605,099, published Jan. 15, 1952. Class 28.

Klik Enterprises, Inc., New York, N. Y. Chain and clip ornamented with precious metal. 556,920, Apr. 1; Serial No. 605,164, published Dec. 25, 1951. Class 28.

Kluger, New York, N. Y. Rayon piece goods. 404,909, Dec. 28, 1943. Canceled Feb. 29, 1952. O. G. Apr. 1. Class 42.

Kooiker Manufacturing Company, The: *See*—
Kooiker, Ralph L.

Kooiker, Ralph L., doing business as The Kooiker Manufacturing Company, Hull, Iowa. Portable grain elevators. 556,914, Apr. 1; Serial No. 604,307, published Jan. 1, 1952. Class 23.

Koplen, Theodore G., Grand Prairie, Tex. Tubular extension sections and couplings therefor for automobile body jacks. 557,089, Apr. 1; Serial No. 583,804. Class 23.

Kresge, S. S., Company, Detroit, Mich. Mouth harmonicas. 556,942, Apr. 1; Serial No. 609,930, published Jan. 15, 1952. Class 36.

Kress, S. H., and Company, New York, N. Y. Teaspoons, tablespoons, dessert spoons, etc. 556,940, Apr. 1; Serial No. 609,764, published Jan. 1, 1952. Class 23.

Kronstadt, Max, doing business as Bristol Seamless Ring Co., by Bristol Seamless Ring Company, New York, N. Y. Finger rings. 262,180, Oct. 1, 1929. Republished Apr. 1. Class 28.

Laboratoires Goupil-Savenor, Cachan, France. Toothpaste. 556,850, Apr. 1; Serial No. 576,646, published Dec. 25, 1951. Class 51.

Lambert Company, The: *See*—
Moore, John Hudson, Inc.

Lamont, Corliss & Company, to Nestlé's Chocolate Company, Inc., New York, N. Y. Prepared edible chocolate. 293,168, renewed Apr. 12, 1952. O. G. Apr. 1. Class 46.

Lehn & Fink Products Corporation, Bloomfield, N. J. Lipsticks. 556,963, Apr. 1; Serial No. 611,792, published Nov. 27, 1951. Class 51.

Lenel Co.: *See*—
Rothchild, Frances.

Lightfoot Schultz Company, New York, N. Y. Sulphonated liquid hand cleaner. 557,000, Apr. 1; Serial No. 614,604, published Jan. 15, 1952. Class 52.

Ludlum Steel Co., Watervliet, N. Y., to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Hard metal composition. 290,376, renewed Jan. 5, 1952. O. G. Apr. 1. Class 14.

Luria, L., & Son, Inc., New York, N. Y. Silver plated hollow ware, sterling hollow ware and cutlery. 556,939, Apr. 1; Serial No. 611,230, published Dec. 25, 1951. Class 28.

Mainzer, Adolf J., Inc., New York and Long Island City, N. Y. Candied fruit peel and fruit. 556,884, Apr. 1; Serial No. 593,182, published Jan. 8, 1952. Class 46.

Marathon Corporation, Rothschild, Wis. Collapsible cardboard cartons. 556,902, Apr. 1; Serial No. 599,959, published Jan. 8, 1952. Class 2.

Marin, Allan, Chicago, Ill. Denture adhesive. 556,943, Apr. 1; Serial No. 609,935, published Nov. 27, 1951. Class 51.

Mastic Asphalt Corporation, South Bend, Ind. Metal sheathed rigid exterior insulating building siding panels. 556,878, Apr. 1; Serial No. 591,744, published Jan. 1, 1952. Class 12.

McConnell-Kerr Company, Detroit, Mich. Sheets and pillowcases and sheeting by the yard. 556,982, Apr. 1; Serial No. 612,699, published Jan. 8, 1952. Class 42.

McGill Manufacturing Co., Inc., Valparaiso, Ind. Antifriction bearings. 556,998, Apr. 1; Serial No. 614,308, published Jan. 1, 1952. Class 23.

McKay Company, The, Pittsburgh, Pa. Tire chains. 557,006, Apr. 1; Serial No. 616,178, published Jan. 8, 1952. Class 13.

Mercier, John A., Brick Co., Dearborn, Mich. Slag block and slag brick. 556,907, Apr. 1; Serial No. 601,269, published Jan. 1, 1952. Class 12.

Merrell-Soule Co., Syracuse, to The Borden Company, New York, N. Y. Milk products. 86,312, re-renewed Apr. 30, 1952. O. G. Apr. 1. Class 46.

Miller Hardware Co., The, Philadelphia, Pa. Hinges, bolts, nuts and screws. 557,059, Apr. 1; Serial No. 611,709. Class 13.

Miltenberg, E., Inc., New York, N. Y. Dental operative instruments, surgical operative instruments, etc. 556,939, Apr. 1; Serial No. 609,690, published Jan. 1, 1952. Class 44.

Milwaukee Metal Spinning Company: *See*—
Spincraft, Inc.

Mission Dry Corporation: *See*—
California Crushed Fruit Corporation.

Mission Dry Corporation, Ltd.: *See*—
California Crushed Fruit Corporation.

Moore, John Hudson, Inc., New York, N. Y., now by merger The Lambert Company. Solidified deodorant. 556,901, Apr. 1; Serial No. 599,644, published Dec. 25, 1951. Class 51.

Morton Manufacturing Corporation: *See*—
Wayne University of Beauty Culture, Inc.

Murchison, Alvin, assignor to B. F. Murchison, Brooklyn, N. Y. Mechanical and hand operated tools. 556,915, Apr. 1; Serial No. 604,380, published Nov. 6, 1951. Class 23.

Murchison, Bessie F., assignee: *See*—
Murchison, Alvin.

Murcott, Alfred, Richmond Hill, N. Y. Golf carts. 556,932, Apr. 1; Serial No. 608,428, published Jan. 15, 1952. Class 22.

Myers, John T., doing business as Connett Plumbing and Heating, Fort Wayne, Ind. Installation and repair of plumbing fixtures. 557,025, Apr. 1; Serial No. 592,156, published Jan. 8, 1952. Class 103.

N. Frontalini & Figli, Numana, Italy. Wind instruments. 556,868, Apr. 1; Serial No. 584,949, published Jan. 15, 1952. Class 36.

National Bank of Auburn, The, executor: *See*—
Auburn Specialties Company.

National Machinery Company, The, Tiffin, Ohio. Metal working machines. 556,854, Apr. 1; Serial No. 578,701, published Jan. 1, 1952. Class 23.

National Plastic Products Company, The, Odenton, Md. Thermoplastic injection molded Venetian blind fittings. 557,008, Apr. 1; Serial No. 616,331, published Jan. 8, 1952. Class 13.

National Pressure Cooker Company, Eau Claire, Wis. Pressure cookers and pressure canners. 556,821, Apr. 1; Serial No. 539,552, published Jan. 15, 1952. Class 13.

National Silver Company, New York, N. Y. Base metal table cutlery. 556,994, Apr. 1; Serial No. 613,821, published Dec. 4, 1951. Class 23.

Naylor, H. W., Co.: *See*—
Naylor, Howard W.

Naylor, Howard W., doing business under the trade-name and style of H. W. Naylor Co., Morris, N. Y. Antiseptic protective wound dressing. 557,064, Apr. 1; Serial No. 614,566. Class 18.

Nestlé's Chocolate Company, Inc.: *See*—
Lamont, Corliss & Company.

Newark Packing Company, Inc., Newark, N. J. Smoked beef and bacon. 84,990, re-renewed Jan. 16, 1952. O. G. Apr. 1. Class 46.

New York Air Brake Company, The, New York, to The New York Air Brake Company, New York, and Watertown, N. Y. Air brakes and parts thereof. 86,543, re-renewed May 14, 1952. O. G. Apr. 1. Class 19.

New York Air Brake Company, The, New York, to The New York Air Brake Company, New York, and Watertown, N. Y. Air pumps and parts thereof. 86,727, re-renewed May 28, 1952. O. G. Apr. 1. Class 23.

Nichols, Murl E., doing business as The Whipper-Clipper Co., Bonham, Tex. Lawn mowers. 556,925, Apr. 1; Serial No. 606,232, published Dec. 4, 1951. Class 23.

Nichols Nasal Syphon, Inc., Montclair, N. J. Nasal syphons. 556,987, Apr. 1; Serial No. 613,016, published Dec. 25, 1951. Class 44.

Nichols Wire & Aluminum Co., Davenport, Iowa. Metal fencing, poles, braces, etc. 557,007, Apr. 1; Serial No. 616,184, published Jan. 8, 1952. Class 13.

Niles & Moser Cigar Company: *See*—
Stickney, Wm. A., Cigar Co.

Nolde and Horst Company, The, Reading, Pa. Men's, women's, boys' and girls' socks. 557,088, Apr. 1; Serial No. 579,446. Class 39.

Nopco Chemical Company, Harrison, N. J. Water-dispersible vitamin concentrates. 556,930, Apr. 1; Serial No. 606,798, published Nov. 20, 1951. Class 18.

Norma-Hoffmann Bearings Corporation, Stamford, Conn. Anti-friction bearings and their parts. 556,927, Apr. 1; Serial No. 606,434, published Jan. 1, 1952. Class 23.

Norris Inc., Atlanta, Ga. Candy mints. 556,858, Apr. 1; Serial No. 580,421, published Nov. 27, 1951. Class 46.

Norris Inc., Atlanta, Ga. Mint candies. 556,881, Apr. 1; Serial No. 593,039, published Nov. 27, 1951. Class 46.

Northrup, King & Co., Minneapolis, Minn. Planting seeds. 556,938, Apr. 1; Serial No. 609,564, published Nov. 27, 1951. Class 1.

Northrup, King & Co., Minneapolis, Minn. Solution for killing crab grass. 556,947, Apr. 1; Serial No. 610,520, published Dec. 18, 1951. Class 6.

Nuernberg, Fritz W., doing business as The Hilo Company, Norwalk, Conn. Insecticides and remedies, etc. 556,840, Apr. 1; Serial No. 561,636, published Dec. 11, 1951. Class 18.

Nye Tool Company, Chicago, Ill. Thread-cutting dies. 556,822, Apr. 1; Serial No. 540,307, published Nov. 6, 1951. Class 23.

Ohio Corrugating Company, The, Warren, Ohio. Metallic closure rings. 556,899, Apr. 1; Serial No. 598,496, published Jan. 8, 1952. Class 13.

Ohio Ferro-Alloys Corporation, Canton, Ohio. Ferro-alloys. 293,597, renewed May 3, 1952. O. G. Apr. 1. Class 14.

Optimist International, St. Louis, Mo. Rendering civic and moral educational services. 557,038, Apr. 1; Serial No. 598,320, published Jan. 8, 1952. Class 107.

Pacific Car and Foundry Company, Renton, Wash. Wire rope fittings. 556,894, Apr. 1; Serial No. 597,540, published Jan. 15, 1952. Class 13.

Palm Springs Ceramics: *See*—
Karmen, B. H.

Parfums Evyan Inc., New York, N. Y. Perfume. 556,890, Apr. 1; Serial No. 594,919, published Nov. 27, 1951. Class 51.

Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of blood hemorrhage. 291,388, renewed Feb. 9, 1952. O. G. Apr. 1. Class 18.

Parke, Davis & Company, Detroit, Mich. Preparation for the treatment of hypertension. 556,933, Apr. 1; Serial No. 608,670, published Nov. 20, 1951. Class 18.

Paton, John G., Company, Inc., The, New York, N. Y. Canned crushed pineapple, canned fine cut pineapple and canned sliced pineapple. 556,896, Apr. 1; Serial No. 597,695, published Jan. 8, 1952. Class 46.

Patterson, C. J., Company, Kansas City, Mo. Highly diastatic malt used as an ingredient for foods. 556,908, Apr. 1; Serial No. 601,275, published Jan. 8, 1952. Class 46.

Peerless Industries, Inc., Salem Township and Plymouth, Mich. Lavatory and tank supplies. 557,078, Apr. 1; Serial No. 563,491. Class 13.

Penn Hardware Company, Reading, Pa. Latches, locks and parts thereof and chain door fasteners. 556,879–80, Apr. 1; Serial Nos. 592,384–5, published Jan. 15, 1952. Class 25.

Perfectform Corporation, New York, N. Y. Ladies' nightgowns, slips and pajamas. 557,052, Apr. 1; Serial No. 605,870. Class 39.

Peter Pan, Incorporated: *See*—
Davies, Theo. H., Company, Ltd.

Peters, F. C., Inc., assignee: *See*—
Peters, Frederick C.

Peters, F. C., Inc., by Tropical Agriculture Co-Operative Association, Goulds, Fla. Potatoes. 349,456, Aug. 31, 1937. Republished Apr. 1. Class 46.

Peters, F. C., Inc., by Tropical Agriculture Co-Operative Association, Goulds, Fla. Fresh vegetables. 364,787–8, Feb. 14, 1939. Republished Apr. 1. Class 46.

Peters, F. C., Inc., by Tropical Agriculture Co-Operative Association, Goulds, Fla. Fresh vegetables. 366,124, Mar. 28, 1939. Republished Apr. 1. Class 46.

Peters, F. C., Inc., by Tropical Agriculture Co-Operative Association, Goulds, Fla. Fresh vegetables and potatoes. 366,569, Apr. 18, 1939. Republished Apr. 1. Class 46.

Peters, F. C., Inc., by Tropical Agriculture Co-Operative Association, Goulds, Fla. Fresh vegetables and potatoes. 366,571, Apr. 18, 1939. Republished Apr. 1. Class 46.

Peters, Frederick C., assignor to F. C. Peters, Inc., by Tropical Agriculture Co-Operative Association, Goulds, Fla. Potatoes. 335,010, May 19, 1936. Republished Apr. 1. Class 46.

Peterson-Biddick Company, Wadena, Minn. Seeds. 556,913, Apr. 1; Serial No. 603,852, published Jan. 8, 1952. Class 1.

Pharma-Craft Corporation, The, assignee: *See*—
Wallace, Lillian, Inc.

Philadelphia Seed Co., Inc., The, Philadelphia, Pa. Red-clover seed, alsyke-clover seed, alfalfa-clover seed, etc. 84,407, re-renewed Dec. 12, 1951. O. G. Apr. 1. Class 1.

Phosferine (Ashton & Parsons), Limited: *See*—
Ashton & Parsons, Ltd.

Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn. Medical preparation. 556,967, Apr. 1; Serial No. 611,971, published Nov. 20, 1951. Class 18.

Pineoleum Company, The, New York, to Baybank Drug Co., Inc., Richmond Hill, N. Y. Medicinal tablets. 294,818, renewed June 7, 1952. O. G. Apr. 1. Class 18.

Pitch-O-Matic Baseball Corporation, Hackensack and Lodi, N. J. Machine for pitching base balls. 556,960, Apr. 1; Serial No. 611,582, published Jan. 15, 1952. Class 22.

Plantation Wood (Lancing) Limited, Lancing, England, Lumber. 556,909, Apr. 1; Serial No. 601,999, published Jan. 1, 1952. Class 12.

Poirette Corsets, Inc., New York, N. Y. Corsets, brassières, and combinations of the same. 290,344, renewed Jan. 5, 1952. O. G. Apr. 1. Class 39.

Pomona Manufacturing Company, Pomona, Calif., by Fairbanks, Morse & Co., Chicago, Ill. Plunger pumps and turbine pumps. 240,482, Mar. 27, 1928. Republished Apr. 1. Class 23.

Porter, H. K., Inc., Somerville, Mass. Tubular extension bars. 557,072, Apr. 1; Serial No. 598,501. Class 23.

Powell, Dick, doing business as Powell Enterprises, Hollywood, Calif. Advertising the goods of others. 557,028, Apr. 1; Serial No. 604,386, published Jan. 8, 1952. Class 101.

Powell Enterprises: *See*—
Powell, Dick.

Pratt & Lambert, Inc., Long Island City and Buffalo, to Pratt & Lambert, Inc., Buffalo, N. Y. Enamels, varnishes, stains, fillers. 85,177, re-renewed Jan. 30, 1952. O. G. Apr. 1. Class 16.

Pycope Incorporated, Jersey City, N. J. Tooth brushes. 556,979, Apr. 1; Serial No. 612,506, published Jan. 1, 1952. Class 29.

Quaker Oats Company, The, Chicago, Ill. Table and kitchen glassware. 556,855, Apr. 1; Serial No. 579,057, published Dec. 25, 1951. Class 33.

Quality Park Envelope Company, St. Paul, Minn. Paper file pockets and paper wallets. 556,817, Apr. 1; Serial No. 528,229, published Apr. 3, 1951. Class 37.

Quicast Crown, Inc., New York, N. Y. Pattern forms and metal shells, used as a reinforcement for dental patterns. 557,074, Apr. 1; Serial No. 553,306. Class 44.

Rabin Company, The, Los Angeles, Calif. Drugs, pharmaceuticals, and related items. 556,827, Apr. 1; Serial No. 546,874, published May 8, 1951. Class 18.

Radbill Oil Company, to Renusit Home Products Co., Philadelphia, Pa. Motor lubricating oils. 287,739, renewed Oct. 6, 1951. O. G. Apr. 1. Class 15.

Radio Voice of Springfield, Inc., Springfield, Ohio. Radio program broadcasting. 557,016, Apr. 1; Serial No. 533,050, published Jan. 8, 1952. Class 101.

Red Comet Incorporated, Littleton, Colo. Thermal controlled wall and ceiling mounted fire extinguisher units, etc. 556,823, Apr. 1; Serial No. 540,872, published Dec. 4, 1951. Class 23.

Reeves, O. A., & Co.: *See*—
Reeves, Oda A.

Reeves, Oda A., doing business as O. A. Reeves & Co., Charleston, Mo. Chemical hog treatment preparation. 557,071, Apr. 1; Serial No. 591,700. Class 18.

Reliable Coal and Mining Co., Chicago, Ill. Coal. 556,952–3, Apr. 1; Serial Nos. 610,924–5, published Dec. 25, 1951. Class 1.

Re-Mark Chemical Co., Inc., Miami, Fla. Liquid preparation for mineralising and neutralising the soil. 557,068, Apr. 1; Serial No. 616,125. Class 10.

Renusit Home Products Co.: *See*—
Radbill Oil Company.

Rhode Island Textile Company, Pawtucket, R. I. Shoe laces. 556,992, Apr. 1; Serial No. 613,731, published Jan. 15, 1952. Class 40.

Richfield Oil Corporation, Los Angeles, Calif. Lubricating oils and greases. 557,087, Apr. 1; Serial No. 581,896. Class 15.

Riksost S. M. R:s Ostlagerforening U. P. A., Stockholm, Sweden. Cheese. 556,912, Apr. 1; Serial No. 603,816, published Dec. 4, 1951. Class 46.

Robinson, R. & G., Visalia, Calif. Liniment. 556,976, Apr. 1; Serial No. 612,275, published Nov. 27, 1951. Class 18.

Rocké Corporation, The, Denver, Colo. Men's and women's hosiery. 557,081, Apr. 1; Serial No. 568,668. Class 39.

Rohrmann, Elisabeth, West Bend, Wis. Sausage. 557,084, Apr. 1; Serial No. 577,227. Class 46.

Rollway Bearing Company, Inc., Syracuse, N. Y. Roller bearings. 557,050, Apr. 1; Serial No. 603,943. Class 23.

Rotary Lift Company, Memphis, Tenn. Automobile, bus, and truck servicing lifts; elevators, lumber lifts, etc. 556,864, Apr. 1; Serial No. 583,619, published Nov. 20, 1951. Class 23.

Rothchild, Frances, doing business under the name Lenel Co., Dallas, Tex. Cologne, perfume, sachet powder, etc. 556,931, Apr. 1; Serial No. 607,044, published Dec. 25, 1951. Class 51.

St. Louis Music Supply Co., St. Louis, Mo. Accordions, banjos, bugles, etc. 556,843, Apr. 1; Serial No. 571,294, published Jan. 15, 1952. Class 36.

St. Martin Preserving Co, Limited, Maidenhead, Berkshire, England. Jams, marmalades, preserves, etc. 288,356, Oct. 27, 1931. Republished Apr. 1. Class 46.

Salem Nut Growers Cooperative, Salem, Oreg. Salted, shelled, and unsalted unshelled nuts. 557,051, Apr. 1; Serial No. 605,329. Class 46.

Schmoll, Karl, Vienna, Austria. Shoe polishes. 557,075, Apr. 1; Serial No. 558,740. Class 4.

Schneider, Erika, to Slenderella Systems, Inc., New York, N. Y. Sugarless foods. 386,714, Apr. 22, 1941. New certificate. O. G. Apr. 1. Class 46.

Schnelerson, I., & Sons, Inc., New York, N. Y. Ladies' and children's slips. 557,069, Apr. 1; Serial No. 618,903. Class 39.

Scholle, Robert: *See*—
Universal Lubricating Co.

Senti-Metal Company, The: *See*—
Bron-Shoe Company, The.

Service Industries, Philadelphia, Pa. Self polishing floor dressing. 556,831, Apr. 1; Serial No. 552,277, published Jan. 1, 1952. Class 4.

Sewell, John G., doing business as Sewell Selected Citrus Co., Fort Lauderdale, Fla. Fresh deciduous and citrus fruits. 557,076, Apr. 1; Serial No. 562,088. Class 46.

Sewell Selected Citrus Co.: *See*—
Sewell, John G.

Shaw-Walker Company, The, Muskegon, Mich. Office desks and tables, bookcases, cupboards, etc. 557,058, Apr. 1; Serial No. 609,667. Class 32.

Sheppard, C. E., Company, The, Long Island City, N. Y. Loose leaf binders and ledgers and leaves or sheets therefor. 557,060, Apr. 1; Serial No. 612,515. Class 37.

Sheppard, C. E., Company, The, Long Island City, N. Y. Accounting forms and loose leaf accounting sheets for use with loose leaf binders and ledgers. 557,061, Apr. 1; Serial No. 612,516. Class 37.

Sinclair Refining Company, New York, N. Y. Oil. 556,977, Apr. 1; Serial No. 612,359, published Nov. 27, 1951. Class 15.

Singer, Gus, Denver, Colo. Whiskey. 347,809, July 6, 1937. Canceled Feb. 20, 1952. O. G. Apr. 1. Class 49.

Skånska Cementaktiebolaget, Malmo, Sweden. Portland cement. 556,895, Apr. 1; Serial No. 597,549, published Jan. 1, 1952. Class 12.

Slenderella Systems, Inc.: *See*—
Schneider, Erika.

Sloan, George, doing business as The Elliott-Morris Co., Lynn, Mass. Juvenile baseball gloves and sponge rubber baseballs. 556,983, Apr. 1; Serial No. 612,763, published Jan. 15, 1952. Class 22.

Smith, Kenneth, Kansas City, Mo. Golf clubs and parts of golf clubs. 294,136, renewed May 17, 1952. O. G. Apr. 1. Class 22.

Smith, T. L., Company, The, Milwaukee, Wis. Concrete truck mixers, carriers, and agitators. 556,891, Apr. 1; Serial No. 595,472, published Jan. 1, 1952. Class 23.

Smith, Thomas L., Charleston, S. C. Advertising goods and services of others. 557,014, Apr. 1; Serial No. 532,511, published Jan. 8, 1952. Class 101.

Société de Faconnage et de Commerce, Velaines, France. Musical instruments. 556,844, Apr. 1; Serial No. 573,692, published Jan. 15, 1952. Class 36.

Societe Laitiere des Alpes Bernoise: *See*—
Milchgesellschaft, Berneralpen.

Société Lancôme, S. A., Paris, France. Face powder, lipstick, rouge, etc. 556,852, Apr. 1; Serial No. 577,004, published Dec. 25, 1951. Class 51.

Society Brand Clothes, Inc.: *See*—
Decker, Alfred, & Cohn, Inc.

Sonotone Corporation, New York, to Sonotone Corporation, Elmsford, N. Y. Electromagnetic devices for aiding hearing. 291,211, renewed Feb. 2, 1952. O. G. Apr. 1. Class 44.

Soreng-Manegold Company, now by change of name Soreng Manufacturing Corporation, Chicago, Ill. Solenoids (both A. C. and D. C.), electric switches (both A. C. and D. C.), automatic switches and circuit breakers, etc. 427,392, Feb. 11, 1947. Corrected. O. G. Apr. 1. Class 21.

Soreng Manufacturing Corporation: *See*—
Soreng-Manegold Company.

Specialty Products Company, Jersey City, N. J. Lubricating greases. 557,062, Apr. 1; Serial No. 614,170. Class 15.

Spincraft, Inc., Milwaukee, Wis., by change of name from Milwaukee Metal Spinning Company. Spinning metal parts from flat sheet metal on customer's order. 557,012, Apr. 1; Serial No. 507,921, published Jan. 8, 1952. Class 106.

Stadler Fertilizer Company, The, Cleveland, Ohio. Horticultural peat moss. 556,897, Apr. 1; Serial No. 597,858, published Jan. 1, 1952. Class 10.

Standard Dyewood Company, Medford, Mass. Synthetic tanning agent. 557,001, Apr. 1; Serial No. 614,636, published Jan. 1, 1952. Class 6.

Stanley Home Products, Inc., Westfield, Mass. Faucet adapter, griddles, coffee percolators, etc. 556,916, Apr. 1; Serial No. 604,399, published Jan. 15, 1952. Class 13.

Stanley Home Products, Inc., Westfield, Mass. Toilet bowl cleaner with incidental deodorizing properties. 556,951, Apr. 1; Serial No. 610,807, published Jan. 1, 1952. Class 52.

Stekert, Martin M., New York, N. Y. Plastic sleeves or guards for protecting electric cables. 517,559, Nov. 8, 1949. Canceled Feb. 29, 1952. O. G. Apr. 1. Class 21.

Stickney, Wm. A., Cigar Co., St. Louis, to Niles & Moser Cigar Company, Kansas City, Mo. Cigars. 86,630, renewed May 21, 1952. O. G. Apr. 1. Class 17.

Stoody Company, Whittier, Calif. Welding rods. 556,988, Apr. 1; Serial No. 613,029, published Jan. 15, 1952. Class 14.

Sturdi-Bilt Steel Products, Inc., Chicago, Ill. Knockdown bases for supporting power tools. 557,070, Apr. 1; Serial No. 591,118. Class 23.

Tach-A-Toy, Inc., Seattle, Wash. Children's toys. 557,042, Apr. 1; Serial No. 600,153. Class 22.

Tasty-Krisp Products, Inc., Detroit, Mich. Cheese flavored corn food or confection. 557,088, Apr. 1; Serial No. 582,254. Class 46.

Tego Products Company, Greenville, S. C. Sanitary napkins and belts 556,997, Apr. 1; Serial No. 614,019, published Jan. 1, 1952. Class 44.

Texas Company, The, Dover, Del., and New York, N. Y. Diesel fuel. 556,958, Apr. 1; Serial No. 611,158, published Nov. 27, 1951. Class 15.

Texas Planting Seed Association, Bryan, Tex. Planting seed. 556,926, Apr. 1; Serial No. 606,342, published Nov 27, 1951. Class 1.

Thompson, John R., Co., Chicago, Ill. Restaurant services. 557,035, Apr. 1; Serial No. 615,420, published Jan. 8, 1952. Class 100.

Thompson Products, Inc., Cleveland, Ohio. Supplementary fuel. 556,865, Apr. 1; Serial No. 584,028, published Nov. 20, 1951. Class 15

Timesaver Products Company, Seattle, Wash. Caulking compound. 557,054, Apr. 1; Serial No. 607,691. Class 12.

Titchener, E. H., & Company, Binghamton, N. Y. Staples. 557,046, Apr. 1; Serial No. 602,295. Class 13

Tool Crib, The: *See*—
Wilson, Aubrey.

Tropical Agriculture Co-Operative Association: *See*—
Peters, F. C., Inc.
Peters, Frederick C.

Tuggle, Lloyd W., doing business as Cimarron Drug Company, Cimarron, Kans. Liniment for use on animals. 557,053, Apr. 1; Serial No. 607,404. Class 18.

Twining, R., & Company, Limited, London, England Tea, coffee, cocoa, etc. 556,838, Apr. 1; Serial No. 558,672, published Dec. 25, 1951. Class 46.

Ulmer Pharmacal Company: *See*—
Physicians and Hospitals Supply Company, Inc.

United Motor Courts, Incorporated, Pasadena, Calif., and Denver, Colo. Provision and maintenance of lodgings and other motor court and motel accommodations. 557,036, Apr. 1; Serial No. 550,632, published Jan. 8, 1952. Class 100.

United States Gypsum Company, Chicago, Ill. Calcined gypsum, wall board, and plaster board. 292,632, renewed Mar. 22, 1952. O. G. Apr. 1. Class 12.

United States Gypsum Company, Chicago, Ill. Plasterboard. 556,841, Apr. 1; Serial No. 562,812, published Jan. 1, 1952. Class 12.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards 557,010, Apr. 1; Serial No. 617,894, published Jan. 15, 1952. Class 22.

United States Steel Company: *See*—
American Steel and Wire Company of New Jersey, The.

Universal Lubricating Co., Cleveland, to R. Scholle, Bedford, Ohio. Heavy and light oils and greases. 84,703, re-renewed Dec. 26, 1951. O. G. Apr. 1. Class 15.

Upjohn Company, The, Kalamazoo, Mich Repository medicinal preparation. 556,970, Apr. 1; Serial No. 612,187, published Nov. 27, 1951. Class 18.

Vestal Chemical Co., to Vestal Laboratories, Inc., St. Louis, Mo. Floor preparations, namely floor waxes, floor polishes, etc. 294,471, renewed May 31, 1952. O. G. Apr. 1. Class 4.

Vestal Laboratories, Inc.: *See*—
Vestal Chemical Co.

Vitamont Sales Company, Butte, Mont. Fish food. 287,168, renewed Sept. 15, 1951. O. G. Apr. 1. Class 46.

Vitamont Sales Company, Butte, Mont. For food. 287,169, renewed Sept. 15, 1951. O. G. Apr. 1. Class 46.

Vitamont Sales Company, Butte, Mont. Cat food. 287,170, renewed Sept. 15. O. G. Apr. 1. Class 46.

Wagner Fur, Inc., New York, N. Y. Furred skins. 556,904–5, Apr. 1; Serial Nos. 600,710–11, published Jan. 8, 1952. Class 1.

Wallace, Lillian, Inc., Chicago, Ill., assignor to The Pharma-Craft Corporation, New York, N. Y. Cuticle removing preparations and nail polish. 556,859, Apr. 1; Serial No. 581,222, published Mar. 27, 1951. Class 51.

Walton, Isaak, League of America, Inc., Chicago, Ill. Grass seed. 556,996, Apr. 1; Serial No. 613,949, published Dec. 25, 1951. Class 1.

Wayne University of Beauty Culture, Inc., to Morton Manufacturing Corporation, Lynchburg, Va. Foot cream, pore cream, skin freshener, etc. 365,833, Mar. 21, 1939. New certificate. O. G. Apr. 1. Class 51.

Webster, F. S., Company, Cambridge, Mass. Typewriter ribbons. 556,885, Apr. 1; Serial No. 593,307, published Nov. 6, 1951. Class 11.

Wellington Sears Company, Boston, Mass., to Wellington Sears Company, New York, N. Y. Twilled piece goods. 290,666–7, renewed Jan. 12, 1952. O. G. Apr. 1. Class 42.

Wells Lamont Corporation, Chicago, Ill. Work gloves. 556,857, Apr. 1; Serial No. 580,388, published Jan. 8, 1952. Class 39.

Wells-Lamont-Smith Corporation, Minneapolis, Minn. Work gloves. 303,697, June 6, 1933. Canceled Feb. 20, 1952. O. G. Apr. 1. Class 39.

Western Air Lines, Inc., Los Angeles, Calif. Transportation of passengers, freight and mail by airplane. 557,092, Apr. 1; Serial No. 593,893. Class 105.

Western Pump Company, Davenport, Iowa, by Fairbanks, Morse & Co., Chicago, Ill. Liquid pumps, pumping systems and parts of said pumps and pumping systems. 178,074, Jan. 8, 1924. Republished Apr. 1. Class 23.

Western Waterproofing Company, Detroit, Mich. Waterproof and weatherproofing compositions. 346,154, May 18, 1937. Restricted. O. G. Apr. 1. Class 12.

Weston Electrical Instrument Corporation, Newark, N. J. Light sensitive cells. 294,202, renewed May 24, 1952. O. G. Apr. 1. Class 21.

Wheel Lifter Co., The, Tulsa, Okla. Manually operated tools. 556,849, Apr. 1; Serial No. 576,602, published Nov. 20, 1951. Class 23.

Wheeler, Paul J., doing business as Associated Foods Co., East Boston, Mass. Pancake syrup. 556,971, Apr. 1; Serial No. 612,192, published Dec. 4, 1951. Class 46.

Whipper-Clipper Co., The: *See*— Nichols, Murl E.

White Sea & Baltic Company P. & I. Danischewsky Ltd., The, London, England. Crude turpentines, rosins, pine tars, etc. 556,830, Apr. 1; Serial No. 551,838, published Dec. 25, 1951. Class 1.

Whiting Corporation, Harvey, Ill. Spray dryers and parts thereof. 556,851, Apr. 1; Serial No. 576,943, published Jan. 1, 1952. Class 23.

Whitman, E. G., & Co., Inc., Philadelphia, Pa. Candy. 556,937, Apr. 1; Serial No. 609,464, published Oct. 23, 1951. Class 46.

Willig, John H., doing business as Celwa Products Co., New York, N. Y. Paper pads and paper paddings, paper wadding pads and paper moulds, etc. 556,872, Apr. 1; Serial No. 589,819, published Jan. 8, 1952. Class 37.

Wilson, Aubrey, doing business as The Tool Crib, Pasadena, Calif. Rental of tools and equipment. 557,021, Apr. 1; Serial No. 578,181, published Jan. 8, 1952. Class 103.

Winter & Company, Inc., New York, N. Y. Pianos. 556,871, Apr. 1; Serial No. 589,692, published Jan. 15, 1952. Class 36.

Wolf Brothers & Co., Red Lion, Pa. Cigars. 286,948, renewed Sept. 8, 1951. O. G. Apr. 1. Class 17.

Wolff, Barry S., Newark, N. J. Receptacles. 557,083, Apr. 1; Serial No. 570,743. Class 2.

Wolseley Motors Limited, Birmingham, Warwickshire, England. Internal combustion motors. 556,826, Apr. 1; Serial No. 545,066, published Nov. 20, 1951. Class 23.

Wrightway Engineering Co., Chicago, Ill. Faucet aerators. 557,065, Apr. 1; Serial No. 615,596. Class 13.

Wyeth Incorporated, Philadelphia, Pa. Hypo-allergenic whole milk. 556,832, Apr. 1; Serial No. 552,522, published Dec. 4, 1951. Class 46.

Zeca Corporation, New York, N. Y. Toe pledgets. 556,985, Apr. 1; Serial No. 612,882, published Dec. 25, 1951. Class 44.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Cellulose sponges. Atlas Supply Company. 556,984, Apr. 1; Serial No. 612,841, published Dec. 25, 1951.

Chamois skins. Atlantic Sponge & Chamois Corporation. 364,870, Feb. 14, 1939. Republished Apr. 1.

Clay. J. M. Huber Corporation. 556,981, Apr. 1; Serial No. 612,693, published Dec. 25, 1951.

Clay. J. M. Huber Corporation. 556,995, Apr. 1; Serial No. 613,914, published Dec. 25, 1951.

Coal. Binkley Coal Company. 556,842, Apr. 1; Serial No. 563,599, published Dec. 25, 1951.

Coal. Black Star Coal Company. 289,728, renewed Dec. 1, 1951. O. G. Apr. 1.

Coal. Reliable Coal and Mining Co. 556,952–3, Apr. 1; Serial Nos., 610,924–5, published Dec. 25, 1951.

Crude turpentines, rosins, pine tars, etc. The White Sea & Baltic Company P. & I. Danischewsky Ltd. 556,830, Apr. 1; Serial No. 551,838, published Dec. 25, 1951.

Eggs, game and poultry, all for breeding purposes. Gaybird Limited. 556,923, Apr. 1; Serial No. 605,736, published Dec. 25, 1951.

Furred skins. Wagner Fur, Inc. 556,904–5, Apr. 1; Serial Nos. 600,710–11, published Jan. 8, 1952.

Hatching eggs. H. V. Flanders. 557,056, Apr. 1; Serial No. 608,987.

Leather. Willard Helburn, Inc. 556,962, Apr. 1; Serial No. 611,782, published Dec. 25, 1951.

Material composed of an elastomer and a resin in the form of sheets or slabs. The Goodyear Tire & Rubber Company. 556,954, Apr. 1; Serial No. 610,964, published Dec. 25, 1951.

Plant bulbs. Harry and David. 556,961, Apr. 1; Serial No. 611,646, published Dec. 25, 1951.

Reprocessed wool, rayon, silk, cotton, etc. J. Eisenberg, Inc. 556,948, Apr. 1; Serial No. 610,617, published Dec. 25, 1951.

Rose plants. The Conard-Pyle Company. 556,945, Apr. 1; Serial No. 610,002, published Nov. 27, 1951.

Seed, Grass. Izaak Walton League of America, Inc. 556,996, Apr. 1; Serial No. 613,949, published Dec. 25, 1951.

Seed, Planting. Texas Planting Seed Association. 556,926, Apr. 1; Serial No. 606,342, published Nov. 27, 1951.

Seed, Red-clover, alsyke-clover seed, alfalfa-clover seed, etc. The Philadelphia Seed Co., Inc. 84,407, re-renewed Dec. 12, 1951. O. G. Apr. 1.

Seeds. Peterson-Biddick Company. 556,913, Apr. 1; Serial No. 603,852, published Jan. 8, 1952.

Seeds, Field and garden. Harper & Martin. 556,928, Apr. 1; Serial No. 606,536, published Nov. 27, 1951.

Seeds, Grass. Druid Hill Park Seed Corporation. 556,941, Apr. 1; Serial No. 609,848, published Nov. 13, 1951.

Seeds, Planting. Northrup, King & Co. 556,938, Apr. 1; Serial No. 609,564, published Nov. 27, 1951.

Single ply polytetrafluoroethylene coated or impregnated glass fabrics and laminates thereof. E. I. du Pont de Nemours and Company. 556,990, Apr. 1; Serial No. 613,364, published Dec. 25, 1951.

Sponges and chamois skins. Atlantic Sponge & Chamois Corporation. 371,157, Sept. 19, 1939. Republished Apr. 1.

CLASS 2

Bags, Paper. Bemis Bro. Bag Company. 557,077, Apr. 1; Serial No. 563,302.

Canisters, Metal. The Enterprise Aluminum Company. 292,371, renewed Mar. 15, 1952. O. G. Apr. 1.

Cartons, Collapsible cardboard. The Dayton Folding Box Company. 557,057, Apr. 1; Serial No. 609,031.

Cartons, Collapsible cardboard. Marathon Corporation. 556,902, Apr. 1; Serial No. 599,959, published Jan. 8, 1952.

Casks and barrels. The Greif Bros. Co. 85,344, re-renewed Feb. 13, 1952. O. G. Apr. 1.

Receptacles. B. S. Wolff. 557,083, Apr. 1; Serial No. 570,743.

Silos. B. M. Heede, Inc. 557,048, Apr. 1; Serial No. 603,712.

Tanks, Metal, and combination metal and concrete tanks. Hammond Iron Works. 557,073, Apr. 1; Serial No. 515,834.

CLASS 4

Floor dressing, Self polishing. Service Industries. 556,831, Apr. 1; Serial No. 552,277, published Jan. 1, 1952.

Floor preparations, namely floor waxes, floor polishes, etc. Vestal Chemical Co. 294,471, renewed May 31, 1952. O. G. Apr. 1.

Polishes, Shoe. K. Schmoll. 557,075, Apr. 1; Serial No. 558,740.

CLASS 6

Gas mixture. Air Reduction Sales Company. 290,067, renewed Dec. 22, 1951. O. G. Apr. 1.

Insect-repelling preparations and waterproof dressings. Thomas Aspinall, Limited. 293,409, renewed Apr. 19, 1952. O. G. Apr. 1.

Products for use in the control of screw worms and fleece worms. California Spray-Chemical Corporation. 556,922, Apr. 1; Serial No. 605,628, published July 31, 1951.

Solution for killing crab grass. Northrup, King & Co. 556,947, Apr. 1; Serial No. 610,520, published Dec. 18, 1951.

Tanning agent, Synthetic. Standard Dyewood Company. 557,001, Apr. 1; Serial No. 614,636, published Jan. 1, 1952.

CLASS 10

Liquid preparation for mineralizing and neutralizing the soil. Re-Mark Chemical Co., Inc. 557,068, Apr. 1; Serial No. 616,125.

Peat moss, Horticultural. The Stadler Fertilizer Company. 556,897, Apr. 1; Serial No. 597,858, published Jan. 1, 1952.

CLASS 11

Typewriter ribbons. F. S. Webster Company. 556,885, Apr. 1; Serial No. 593,307, published Nov. 6, 1951.

CLASS 12

Calcined gypsum, wall board, and plaster board. United States Gypsum Company. 292,632, renewed Mar. 22, 1952. O. G. Apr. 1.

Caulking compound. Timesaver Products Company. 557,054, Apr. 1; Serial No. 607,691.

Lumber. Clear Fir Sales Company. 556,833, Apr. 1; Serial No. 553,344, published Nov. 27, 1951.

Lumber. Plantation Wood (Lancing) Limited. 556,909, Apr. 1; Serial No. 601,999, published Jan. 1, 1952.

Metal sheathed rigid exterior insulating building siding panels. Mastic Asphalt Corporation. 556,878, Apr. 1; Serial No. 591,744, published Jan. 1, 1952.

Plaster aggregate. Gregg Lumber Company. 556,877, Apr. 1; Serial No. 591,294, published Jan. 1, 1952.

Plasterboard. United States Gypsum Company. 556,841, Apr. 1; Serial No. 562,812, published Jan. 1, 1952.

Portland cement. Skånska Cementaktiebolaget. 556,895, Apr. 1; Serial No. 597,549, published Jan. 1, 1952.

Slag block and slag brick. John A. Mercier Brick Co. 556,907, Apr. 1; Serial No. 601,269, published Jan. 1, 1952.

Waterproof and weatherproofing compositions. Western Waterproofing Company. 346,154, May 18, 1937. Restricted. O. G. Apr. 1.

CLASS 13

Caster wheels, Hard tread furniture. Faultless Caster Corporation. 556,828, Apr. 1; Serial No. 548,333, published Aug. 14, 1951.

Corner shields. Ace Specialty Manufacturing Company. 556,870, Apr. 1; Serial No. 588,924, published Jan. 8, 1952.

Cushioned glides. T. R. Brawley Felt Co. Inc. 556,862, Apr. 1; Serial No. 582,019, published Jan. 8, 1952.

Faucet adapter, griddles, coffee percolators, etc. Stanley Home Products, Inc. 556,916, Apr. 1; Serial No. 604,399, published Jan. 15, 1952.

Faucet aerators. Wrightway Engineering Co. 557,065, Apr. 1; Serial No. 615,596.

Fittings, Metal pipe. Jefferson Union Company, Inc. 288,070, renewed Oct. 20, 1951. O. G. Apr. 1.

Hardware. All-Steel Equipment Inc. 556,837, Apr. 1; Serial No. 558,432, published Jan. 15, 1952.

Hinges, bolts, nuts and screws. The Miller Hardware Co. 557,059, Apr. 1; Serial No. 611,709.

Lavatory and tank supplies. Peerless Industries, Inc. 557,078, Apr. 1; Serial No. 563,491.

Metal fencing, poles, braces, etc. Nichols Wire & Aluminum Co. 557,007, Apr. 1; Serial No. 616,184, published Jan. 8, 1952.

Metal hollow ware. The Everedy Company. 556,861, Apr. 1; Serial No. 581,803, published Jan. 8, 1951.

Metallic closure rings. The Ohio Corrugating Company. 556,899, Apr. 1; Serial No. 598,496, published Jan. 8, 1952.

Pressure cookers and pressure canners. National Pressure Cooker Company. 556,821, Apr. 1; Serial No. 539,552, published Jan. 15, 1952.

Sash pulleys. The Consolidated Iron-Steel Mfg. Co. 556,863, Apr. 1; Serial No. 582,559, published Jan. 8, 1952.

Self-locking metallic pins. Drive-Lok Pin Company. 557,080, Apr. 1; Serial No. 564,438.

Staples. E. H. Titchener & Company. 557,046, Apr. 1; Serial No. 602,295.

Tire chains. Campbell Chain Company. 557,002, Apr. 1; Serial No. 614,648, published Jan. 15, 1952.

Tire chains. The McKay Company. 557,006, Apr. 1; Serial No. 616,178, published Jan. 8, 1952.

Valves, Backflow prevention. Backflow Engineering & Equipment Co. 556,847, Apr. 1; Serial No. 575,692, published Jan. 15, 1952.

Venetian blind fittings, Thermoplastic injection molded. The National Plastic Products Company. 557,008, Apr. 1; Serial No. 616,331, published Jan. 8, 1952.

Wire rope fittings. Pacific Car and Foundry Company. 556,894, Apr. 1; Serial No. 597,540, published Jan. 15, 1952.

CLASS 14

Ferro-alloys. Ohio Ferro-Alloys Corporation. 293,397, renewed May 3, 1952. O. G. Apr. 1.

Metal composition, Hard. Ludlum Steel Co. 290,376, renewed Jan. 5, 1952. O. G. Apr. 1.

Steel, Die. Crucible Steel Company of America. 292,755, renewed Mar. 29, 1952. O. G. Apr. 1.

Steel, High speed. Crucible Steel Company of America. 292,370, renewed Mar. 15, 1952. O. G. Apr. 1.

Steel, High speed. Halcomb Steel Company. 292,369, renewed Mar. 15, 1952. O. G. Apr. 1.

Steel strip. The American Steel and Wire Company of New Jersey. 557,009, Apr. 1; Serial No. 616,807, published Jan. 8, 1952.

Welding rods. Stoody Company. 556,988, Apr. 1; Serial No. 613,029, published Jan. 15, 1952.

CLASS 15

Fluids used as a fluid coupling for the transmission of power in motor driven devices. The Bell Company, Inc. 556,889, Apr. 1; Serial No. 594,826, published Nov. 20, 1951.

Fuel, Diesel. The Texas Company. 556,958, Apr. 1; Serial No. 611,158, published Nov. 27, 1951.

Fuel, Supplementary. Thompson Products, Inc. 556,865, Apr. 1; Serial No. 584,028, published Nov. 20, 1951.

Greases, Lubricating. Specialty Products Company. 557,062, Apr. 1; Serial No. 614,170.

Oil. Sinclair Refining Company. 556,977, Apr. 1; Serial No. 612,359, published Nov. 27, 1951.

Oil, Motor. Automobile Dealers Associates, Inc. 556,917, Apr. 1; Serial No. 604,895, published Nov. 27, 1951.

Oil, Watch lubricating. The Gruen Watch Company. 557,055, Apr. 1; Serial No. 607,806.

Oils and greases, Heavy and light, Universal Lubricating Co. 84,703, re-renewed Dec. 26, 1951. O. G. Apr. 1.

Oils and greases, Lubricating. Richfield Oil Corporation. 557,087, Apr. 1; Serial No. 581,896.

Oils, Lubricating. The Kendall Refining Company. 556,839, Apr. 1; Serial No. 561,020, published Nov. 27, 1951.

Oils, Motor lubricating. Radbill Oil Company. 287,739, renewed Oct. 6, 1951. O. G. Apr. 1.

Oils, etc., Refined, semirefined, and unrefined. Humble Oil & Refining Company. 556,875, Apr. 1; Serial No. 590,597, published Nov. 27, 1951.

CLASS 16

Enamels, varnishes, stains, fillers. Pratt & Lambert, Inc. 85,177, re-renewed Jan. 30, 1952. O. G. Apr. 1.

CLASS 17

Cigar. The Deisel-Wemmer-Gilbert Corporation. 292,832, renewed Mar. 29, 1952. O. G. Apr. 1.

Cigarettes. Brown & Williamson Tobacco Corporation. 556,910, Apr. 1; Serial No. 603,758, published Jan. 8, 1952.

Cigarettes. Brown & Williamson Tobacco Corporation. 556,911, Apr. 1; Serial No. 603,761, published Jan. 8, 1952.

Cigars. Gradiax, Annis & Co., Inc. 557,047, Apr. 1; Serial No. 603,679.

Cigars. Wm. A. Stickney Cigar Co. 86,630, re-renewed May 21, 1952. O. G. Apr. 1.

Cigars. Wolf Brothers & Co. 286,948, renewed Sept. 8, 1951. O. G. Apr. 1.

CLASS 18

Antiseptic protective wound dressing. H. W. Naylor. 557,064, Apr. 1; Serial No. 614,366.

Chemical hog treatment preparation. O. A. Reeves. 557,071, Apr. 1; Serial No. 591,700.

Drugs, pharmaceuticals, and related items. The Rabin Company. 556,827, Apr. 1; Serial No. 546,874, published May 8, 1951.

Essential oils and aromatic chemicals, vanilla and flavor bases for use in pharmaceuticals, etc. Dodge & Olcott, Inc. 556,989, Apr. 1; Serial No. 613,055, published Dec. 25, 1951.

Insecticides and remedies, etc. F. W. Nuernberg. 556,840, Apr. 1; Serial No. 561,636, published Dec. 11, 1951.

Liniment. R. & G. Robinson. 556,976, Apr. 1; Serial No. 612,275, published Nov. 27, 1951.

Liniment for use on animals. L. W. Tuggle. 557,053, Apr. 1; Serial No. 607,404.

Medical preparation. Physicians and Hospitals Supply Company, Inc. 556,967, Apr. 1; Serial No. 611,971, published Nov. 20, 1951.

Medicinal hair tonic and preparation for treating diseases of the skin. Hamer, Hamer & Hamer. 556,845, Apr. 1; Serial No. 574,032, published Dec. 18, 1951.

Medicinal preparation. B. F. Ascher & Company, Inc. 556,969, Apr. 1; Serial No. 612,113, published Nov. 27, 1951.

Medicinal preparation, Repository. The Upjohn Company. 556,970, Apr. 1; Serial No. 612,187, published Nov. 27, 1951.

Medicinal tablets. The Pineoleum Company. 294,818, renewed June 7, 1952. O. G. Apr. 1.

Medicine for the treatment of anemia. The Gifford Company. 344,035, Mar. 9, 1937. Canceled Feb. 15, 1952. O. G. Apr. 1.

Natural and synthetic essential oils, aromatic chemicals. Firmenich & Co. 556,887–8, Apr. 1; Serial Nos. 594,210–11, published Nov. 27, 1951.

Pills, tablets, and liquids for use as a remedy for weakness, etc. Ashton & Parsons, Ltd. 37,375, Nov. 26, 1901. Republished Apr. 1.

Preparation for the treatment of blood hemorrhage. Parke, Davis & Company. 291,388, renewed Feb. 9, 1952. O. G. Apr. 1.

Preparation for the treatment of hypertension. Parke, Davis & Company. 556,933, Apr. 1; Serial No. 608,670, published Nov. 20, 1951.

Preparation used in the treatment of chafing, roughness of skin, etc. Chicago Pharmacal Company. 556,973, Apr. 1; Serial No. 612,244, published Nov. 27, 1951.

Tonic. Brewer & Company Inc. 290,038, renewed Dec. 22,1951. O. G. Apr. 1.

Tonic, General. Brewer & Company, Inc. 287,399, Sept. 22, 1931. Republished Apr. 1.

Vitamin concentrates, Water-dispersible. Nopco Chemical Company. 556,930, Apr. 1; Serial No. 606,798, published Nov. 20, 1951.

CLASS 19

Air brakes and parts thereof. The New York Air Brake Company. 86,543, re-renewed May 14, 1952. O. G. Apr. 1.
Automobiles. F. Bertucci. 371,003, Sept. 12, 1939. Canceled Feb. 15, 1952. O. G. Apr. 1.
Rail cars, Self-propelled and manually propelled. Fairbanks, Morse & Co. 407,065, May 16, 1944. Republished Apr. 1.

CLASS 21

Electric dynamos and motors. Fairbanks, Morse & Co. 140,593, Mar. 22, 1921. Republished Apr. 1.
Light sensitive cells. Weston Electrical Instrument Corporation. 294,202, renewed May 24, 1952. O. G. Apr. 1.
Plastic sleeves or guards for protecting electric cables. M. M. Stekert. 517,559, Nov. 8, 1949. Canceled Feb. 29, 1952. O. G. Apr. 1.
Solenoids (Both A. C. and D. C.), electric switches (Both A. C. and D. C.), automatic switches and circuit breakers, etc. Soreng-Manegold Company. 427,392, Feb. 11, 1947. Corrected. O. G. Apr. 1.
Springs made and sold in strip form. Instrument Specialties Company, Inc. 557,049, Apr. 1; Serial No. 603,928.

CLASS 22

Artificial fish lures. E. H. Allison. 557,011, Apr. 1; Serial No. 618,224, published Jan. 15, 1952.
Baseball gloves and sponge rubber baseballs, Juvenile. G. Sloan. 556,983, Apr. 1; Serial No. 612,763, published Jan. 15, 1952.
Carts for carrying golf bags. R. K. Cassidy. 556,936, Apr. 1; Serial No. 609,227, published Jan. 15, 1952.
Golf carts. A. Murcott. 556,932, Apr. 1; Serial No. 608,428, published Jan. 15, 1952.
Golf clubs and parts of golf clubs. K. Smith. 294,136, renewed May 17, 1952. O. G. Apr. 1.
Machine for pitching base balls. Pitch-O-Matic Baseball Corporation. 556,960, Apr. 1; Serial No. 611,582, published Jan. 15, 1952.
Playing cards. The United States Playing Card Company. 557,010, Apr. 1; Serial No. 617,894, published Jan. 15, 1952.
Toy guns. R. J. Corcoran. 556,946, Apr. 1; Serial No. 610,258, published Jan. 15, 1952.
Toy trucks. Jaxton Manufacturing Corporation. 556,934, Apr. 1; Serial No. 608,870, published Jan. 15, 1952.
Toys, Children's. Tach-A-Toy, Inc. 557,042, Apr. 1; Serial No. 600,153.

CLASS 23

Anti-friction bearings. McGill Manufacturing Co., Inc. 556,998, Apr. 1; Serial No. 614,308, published Jan. 1, 1952.
Anti-friction bearings and their parts. Norma-Hoffmann Bearings Corporation. 556,927, Apr. 1; Serial No. 606,434, published Jan. 1, 1952.
Automobile, bus, and truck servicing lifts; elevators, lumber lifts, etc. Rotary Lift Company. 556,864, Apr. 1; Serial No. 583,619, published Nov. 20, 1951.
Base metal table cutlery. National Silver Company. 556,994, Apr. 1; Serial No. 613,821, published Dec. 4, 1951.
Basin wrench. Chicago Specialty Mfg. Co. 557,063, Apr. 1; Serial No. 614,287.
Belt and grain take-ups and tighteners, apron and pan conveyers and parts thereof, etc. Chain Belt Company. 292,083. Mar. 1, 1932. Amended. O. G. Apr. 1.
Concrete truck mixers, carriers, and agitators. The T. L. Smith Company. 556,891, Apr. 1; Serial No. 595,472, published Jan. 1, 1952.
Fire extinguisher units, etc.. Thermal controlled wall and ceiling mounted. Red Comet Incorporated. 556,823, Apr. 1; Serial No. 540,872, published Dec. 4, 1951.
Grain elevators, Portable. R. L. Kooiker. 556,914, Apr. 1; Serial No. 604,307, published Jan. 1, 1952.
Handles for cutlery. Plastic. Adams Plastics Co., Inc. 556,848, Apr. 1; Serial No. 575,828, published Dec. 18, 1951.
Inserted blades for rotary metal cutting tools and tools embodying such blades. Goddard and Goddard Company. 557,085, Apr. 1; Serial No. 579,318.
Internal combustion engines. Fairbanks, Morse & Co. 405,630. Feb. 8, 1944. Republished Apr. 1, 1952.
Internal combustion motors. Wolseley Motors Limited. 556,826, Apr. 1; Serial No. 545,066, published Nov. 20, 1951.
Knockdown bases for supporting power tools. Sturdi-Bilt Steel Products, Inc. 557,070, Apr. 1; Serial No. 591,118.
Lawn mowers. M. E. Nichols. 556,925, Apr. 1; Serial No. 606,232, published Dec. 4, 1951.
Machines used in textile manufacture. Abington Textile Machinery Works. 556,903, Apr. 1; Serial No. 600,640, published Jan. 1, 1952.
Meat tendering machines. W. F. Duffy. 294,184, renewed May 24, 1952. O. G. Apr. 1.
Metal working machines. The National Machinery Company. 556,854, Apr. 1; Serial No. 578,701, published Jan. 1, 1952.
Power transmission units, Complete. General Motors Corporation. 556,834, Apr. 1; Serial No. 554,107, published Jan. 1, 1952.
Pumps and parts thereof, Air. The New York Air Brake Company. 86,727, re-renewed May 28, 1952. O. G. Apr. 1.
Pumps, Liquid, pumping systems and parts of said pumps and pumping systems. Western Pump Company. 178,074, Jan. 8, 1924. Republished Apr. 1.
Pumps, Plunger, and turbine pumps. Pomona Manufacturing Company. 240,482, Mar. 27, 1928. Republished Apr. 1.
Roller bearings. Rollway Bearing Company, Inc. 557,050, Apr. 1; Serial No. 603,943.
Sewing machines and sewing machine parts. J. Feder. 557,043–4, Apr. 1; Serial Nos. 601,611–12.
Soda fountains, beverage dispensing machines, and machines for carbonating beverages. The Bastian-Blessing Company. 556,882, Apr. 1; Serial No. 593,051, published Jan. 1, 1952.
Spray dryers and parts thereof. Whiting Corporation. 556,851, Apr. 1; Serial No. 576,943, published Jan. 1, 1952.
Teaspoons, tablespoons, dessert spoons, etc. S. H. Kress and Company. 556,940, Apr. 1; Serial No. 609,764, published Jan. 1, 1952.
Thread-cutting dies. Nye Tool Company. 556,822, Apr. 1; Serial No. 540,307, published Nov. 6, 1951.
Tools, Culinary. Ekco Products Company. 556,900, Apr. 1; Serial No. 598,718, published Jan. 1, 1952.
Tools, Household hand. J. C. Brown. 556,873, Apr. 1; Serial No. 590,486, published Dec. 11, 1951.
Tools, Manually operated. The Wheel Lifter Co. 556,849, Apr. 1; Serial No. 576,602, published Nov. 20, 1951.
Tools, Mechanical and hand operated. A. Murchison. 556,915, Apr. 1; Serial No. 604,380, published Nov. 6, 1951.
Tubular extension bars. H. K. Porter, Inc. 557,072, Apr. 1; Serial No. 598,501.
Tubular extension sections and couplings therefor for automobile body jacks. T. G. Koplen. 557,089, Apr. 1; Serial No. 583,804.

CLASS 25

Latches, locks and parts thereof and chain door fasteners. Penn Hardware Company. 556,879–80, Apr. 1; Serial Nos. 592,384–5, published Jan. 15, 1952.

CLASS 26

Weighing machines, scales, balances, and parts thereof. Fairbanks, Morse & Co. 425,696, Dec. 3, 1946. Republished Apr. 1.
Weighing machines, scales, balances, and parts thereof. Fairbanks, Morse & Co. 443,058, July 12, 1949. Republished Apr. 1.

CLASS 27

Clocks and watches. A. Kaatz. 556,883, Apr. 1; Serial No. 593,178, published Nov. 27, 1951.
Horological instruments, watches of all kinds, clocks, etc. Etablissements Ed. Jaeger. 294,132, renewed May 17, 1952. O. G. Apr. 1.
Watchcases. Illinois Watch Case Co. 85,864, re-renewed Mar. 26, 1952. O. G. Apr. 1.
Watches. Cronow Watch Co., Inc. 541,242, Apr. 17, 1951. Canceled Mar. 3, 1952. O. G. Apr. 1.
Watches. J. Honig. 556,968, Apr. 1; Serial No. 612,074, published Dec. 25, 1951.

CLASS 28

Chain and clip ornamented with precious metal. Klik Enterprises, Inc. 556,919, Apr. 1; Serial No. 605,099, published Jan. 15, 1952.
Chain and clip ornamented with precious metal. Klik Enterprises, Inc. 556,920, Apr. 1; Serial No. 605,164, published Dec. 25, 1951.
Hollow ware, Silver plated, sterling hollow ware and cutlery. L. Luria & Son, Inc. 556,959, Apr. 1; Serial No. 611,230, published Dec. 25, 1951.
Jewelry, Imitation costume. Happé Products Limited. 556,944, Apr. 1; Serial No. 609,972, published Dec. 25, 1951.
Jewelry. Concord Manufacturing Corporation. 556,906, Apr. 1; Serial No. 601,095, published Jan. 1, 1952.
Jewelry. Excell Manufacturing Company. 556,824–5, Apr. 1; Serial Nos. 541,528–9, published Apr. 4, 1950.
Rings, Finger. M. Kronstadt. 262,180, Oct. 1, 1929. Republished Apr. 1.
Tableware, Silver plated. Diamond Silver Company. 287,234, renewed Sept. 15, 1951. O. G. Apr. 1.

CLASS 29

Brushes, Tooth. Pycope Incorporated. 556,979, Apr. 1; Serial No. 612,506, published Jan. 1, 1952.
Polishing-cloths. Auburn Specialties Company. 87,710, re-renewed Aug. 6, 1952. O. G. Apr. 1.

CLASS 30

Ceramic shapes, Fired. American Lava Corporation. 556,856, Apr. 1; Serial No. 580,174, published Jan. 1, 1952.

China, Articles of, and hand painted china. Baker Imperial Co., Inc. 556,876, Apr. 1; Serial No. 590,793, published Dec. 25, 1951.
Chinaware and earthenware. B. H. Karmen. 556,874, Apr. 1; Serial No. 590,553, published Nov. 27, 1951.

CLASS 32

Desks and tables, Office, bookcases, cupboards, etc. The Shaw-Walker Company. 557,058, Apr. 1; Serial No. 609,667.
Racks, Display, and storage racks. John H. Best & Sons, Inc. 557,066, Apr. 1; Serial No. 615,600.

CLASS 33

Glass, Flat. Blue Ridge Glass Corporation. 556,955, Apr. 1; Serial No. 611,073, published Dec. 25, 1951.
Glass, Flat. Blue Ridge Glass Corporation. 556,956, Apr. 1; Serial No. 611,075, published Dec. 25, 1951.
Glassware, Table and kitchen. The Quaker Oats Company. 556,855, Apr. 1; Serial No. 579,057, published Dec. 25, 1951.

CLASS 36

Accordions, banjos, bugles, etc. St. Louis Music Supply Co. 556,843, Apr. 1; Serial No. 571,294, published Jan. 15, 1952.
Harmonicas, Mouth. S. S. Kresge Company. 556,942, Apr. 1; Serial No. 609,930, published Jan. 15, 1952.
Kits consisting of grooved phonograph records and pictorial illustrations. Conlon-Moore Corporation. 556,818, Apr. 1; Serial No. 533,703, published Jan. 15, 1952.
Musical instruments. Société de Faconnage et de Commerce. 556,844, Apr. 1; Serial No. 573,692, published Jan. 15, 1952.
Phonograph records, Grooved. Falcon Record Company. 556,929, Apr. 1; Serial No. 606,703, published Jan. 15, 1952.
Pianos. Winter & Company, Inc. 556,871, Apr. 1; Serial No. 589,692, published Jan. 15, 1952.
Wind instruments. N. Frontalini & Figli. 556,868, Apr. 1; Serial No. 584,949, published Jan. 15, 1952.

CLASS 37

Accounting forms and loose leaf accounting sheets for use with loose leaf binders and ledgers. The C. E. Sheppard Company. 557,061, Apr. 1; Serial No. 612,516.
Crayons, chalks, pencil leads, etc. A. W. Faber. 86,582, re-renewed May 21, 1952. O. G. Apr. 1.
Loose leaf binders and ledgers and leaves or sheets therefor. The C. E. Sheppard Company. 557,060, Apr. 1; Serial No. 612,515.
Paper file pockets and paper wallets. Quality Park Envelope Company. 556,817, Apr. 1; Serial No. 528,229, published Apr. 3, 1951.
Paper pads and paper paddings, paper wadding pads and paper moulds, etc. J. H. Willig. 556,872, Apr. 1; Serial No. 589,819, published Jan. 8, 1952.
Pencils, Lead, colored pencils, copying pencils, etc. A. W. Faber. 86,583, re-renewed May 21, 1952. O. G. Apr. 1.

CLASS 39

Brassières. Artistic Foundations, Inc. 557,004, Apr. 1; Serial No. 614,801, published Jan. 8, 1952.
Brassières, girdles, and combinations of brassières and girdles. Corset Specialties, Inc. 556,924, Apr. 1; Serial No. 606,074, published Jan. 8, 1952.
Corsets, brassières, and combinations of the same. Poirette Corsets, Inc. 290,344, renewed Jan. 5, 1952. O. G. Apr. 1.
Gloves, Work. Wells Lamont Corporation. 556,857, Apr. 1; Serial No. 580,388, published Jan. 8, 1952.
Gloves, Work. Wells-Lamont-Smith Corporation. 303,697, June 6, 1933. Canceled Feb. 20, 1952. O. G. Apr. 1.
Gowns and dresses for formal wear, Women's and misses' wedding. Bridal Originals. 556,986, Apr. 1; Serial No. 612,893, published Jan. 8, 1952.
Hats and caps, Men's, boys', and women's. Frank H. Chamberlain Co. Inc. 444,676, Apr. 1; Serial No. 519,316, published Nov. 18, 1947.
Hats, Felt. Hodshon-Berg, Incorporated. 294,678, renewed June 7, 1952. O. G. Apr. 1.
Hosiery, Men's and women's. The Rocké Corporation 557,081, Apr. 1; Serial No. 568,668.
Hosiery, Women's. Gotham Hosiery Company, Inc. 556,866–7, Apr. 1; Serial Nos. 584,762–3, published June 5, 1951.
Nightgowns, slips and pajamas, Ladies'. Perfectform Corporation. 557,052, Apr. 1; Serial No. 605,870.
Overcoats and men's suits, etc. Alfred Decker & Cohn, Inc. 292,991, renewed Apr. 5, 1952. O. G. Apr. 1.
Pajama sets and nightgowns, Women's, girls', and children's one- and two-piece. A. Kaufman. 556,835, Apr. 1; Serial No. 557,046, published Mar. 7, 1950.
Shirts, Men's and boys' dress, negligee, and work, etc. William Atkin Co., Inc. 294,100, renewed May 17, 1952. O. G. Apr. 1.
Shoe soles. Avon Sole Company. 557,067, Apr. 1; Serial No. 615,750.
Slips, Ladies' and children's. I. Schneierson & Sons, Inc. 557,069, Apr. 1; Serial No. 618,903.
Socks, Men's, women's, boys' and girls'. The Nolde and Horst Company. 557,086, Apr. 1; Serial No. 579,446.
Suits, Men's. Alfred Decker & Cohn, Inc. 294,106, renewed May 17, 1952. O. G. Apr. 1.
Suits, Men's. Alfred Decker & Cohn, Inc. 294,531, renewed May 31, 1952. O. G. Apr. 1.
Underwear, Ladies'. Julius Kayser & Co. 292,590, renewed Mar. 15, 1952. O. G. Apr. 1.

CLASS 40

Backings for use in the making of belts. G & W Leather Goods Supply Co., Inc. 556,993, Apr. 1; Serial No. 613,811, published Jan. 15, 1952.
Sewing boards. D. Cahn. 542,181, May 8, 1951. Canceled Feb. 29, 1952. O. G. Apr. 1.
Shoe laces. Rhode Island Textile Company. 556,992, Apr. 1; Serial No. 613,731, published Jan. 15, 1952.

CLASS 42

Blankets, Woolen. The Governor and Company of Adventurers of England trading as Hudson's Bay Company. 291,623–5, renewed Feb. 23, 1952. O. G. Apr. 1.
Blankets, Woolen. The Governor and Company of Adventurers of England trading into Hudson's Bay. 291,636, renewed Feb. 23, 1952. O. G. Apr. 1.
Blankets, Woolen. The Governor and Company of Adventurers of England trading into Hudson's Bay. 291,637–39, renewed Feb. 23, 1952. O. G. Apr. 1.
Cloth, namely, woolen and worsted fabrics. Broad Brook Company. 556,965, Apr. 1; Serial No. 611,885, published Jan. 8, 1952.
Fabrics in the piece, Textile. Greeff Fabrics, Inc. 556,980, Apr. 1; Serial No. 612,542, published Jan. 8, 1952.
Fabrics, Lining. Gloversville Knitting Company. 556,974, Apr. 1; Serial No. 612,251, published Jan. 8, 1952.
Piece goods. The Calico Printers' Association Limited. 556,964, Apr. 1; Serial No. 611,826, published Jan. 8, 1952.
Piece goods, Cotton. Brand & Oppenheimer, Incorporated. 556,860, Apr. 1; Serial No. 581,315, published Dec. 25, 1951.
Piece goods, Cotton. Carnac Cottons, Inc. 290,681–2, Jan. 12, 1932. Republished Apr. 1.
Piece goods, Rayon. Copley Fabrics, Inc. 556,898, Apr. 1; Serial No. 598,455, published Jan. 8, 1952.
Piece goods, Rayon. Kluger. 404,909, Dec. 28, 1943. Canceled Feb. 29, 1952. O. G. Apr. 1.
Piece goods, Twilled. Wellington Sears Company. 290,666–7, renewed Jan. 12, 1952. O. G. Apr. 1.
Piece goods, Woolen. American Woolen Company. 294,706, renewed June 7, 1952. O. G. Apr. 1.
Sheets and pillowcases and sheeting by the yard. McConnell-Kerr Company. 556,982, Apr. 1; Serial No. 612,699, published Jan. 8, 1952.

CLASS 43

Threads. Drummondville Cotton Company, Limited. 556,918, Apr. 1; Serial No. 604,959, published Jan. 8, 1952.

CLASS 44

Dental operative instruments, surgical operative instruments, etc. E. Miltenberg, Inc. 556,939, Apr. 1; Serial No. 609,690, published Jan. 1, 1952.
Electrical machines used in the treatment of high blood pressure. A. R. Beamon. 556,950, Apr. 1; Serial No. 610,668, published Jan. 1, 1952.
Electromagnetic devices for aiding hearing. Sonotone Corporation. 291,211, renewed Feb. 2, 1952. O. G. Apr. 1.
Fracture fixing pins. The Berivon Company. 556,991, Apr. 1; Serial No. 613,434, published Jan. 1, 1952.
Gold alloy used for dental purposes. J. F. Jelenko & Co., Inc. 557,003, Apr. 1; Serial No. 614,664, published Jan. 8, 1952.
Metallic backings for artificial teeth. The Columbus Dental Manufacturing Co. 557,005, Apr. 1; Serial No. 614,818, published Jan. 8, 1952.
Nasal syphons. Nichols Nasal Syphon, Inc. 556,987, Apr. 1; Serial No. 613,016, published Dec. 25, 1951.
Pattern forms and metal shells, used as a reinforcement for dental patterns. Quicast Crown, Inc. 557,074, Apr. 1; Serial No. 553,306.
Sanitary napkins and belts. Tego Products Company. 556,997, Apr. 1; Serial No. 614,019, published Jan. 1, 1952.
Sanitary pads. Diana Manufacturing Company. 294,545, renewed May 31, 1952. O. G. Apr. 1.
Toe pledgets. Zeca Corporation. 556,985, Apr. 1; Serial No. 612,882, published Dec. 25, 1951.

CLASS 45

Beverages, Nonalcoholic, maltless, and ginger ale. California Crushed Fruit Corporation. 288,155, renewed Oct. 20, 1951. O. G. Apr. 1.

CLASS 46

Abalone, Frozen. R. L. Gulick, Jr. 557,045, Apr. 1; Serial No. 601,616.
Beef and bacon, Smoked. Newark Packing Company, Inc. 84,990, re-renewed Jan. 16, 1952. O. G. Apr. 1.
Candies. Lydia Darrah Candy Shops, Inc. 189,215, Sept. 16, 1924. New certificate. O. G. Apr. 1.

Candies, Mint. Norris Inc. 556,881, Apr. 1; Serial No. 593,039, published Nov. 27, 1951.
Candy. J. N. Adam & Co. 287,165, renewed Sept. 15, 1951. O. G. Apr. 1.
Candy. H. C. Fox. 556,819, Apr. 1; Serial No. 535,018, published Jan. 8, 1952.
Candy. E. G. Whitman & Co., Inc. 556,937, Apr. 1; Serial No. 609,464, published Oct. 23, 1951.
Candy mints. Norris Inc. 556,858, Apr. 1; Serial No. 580,421, published Nov. 27, 1951.
Canned crushed pineapple, canned fine cut pineapple and canned sliced pineapple. The John G. Paton Company, Inc. 556,896, Apr. 1; Serial No. 597,695, published Jan. 8, 1952.
Canned fruits. Flotill Products, Incorporated. 556,820, Apr. 1; Serial No. 536,884, published Dec. 25, 1951.
Canned, pickled, salted, smoked, and preserved fish, canned shellfish, etc. Brandão & Companhia, Limitada. 292,347, renewed Mar. 15, 1952. O. G. Apr. 1.
Canned pineapple. Theo. H. Davies Company, Ltd. 84,819, re-renewed Jan. 9, 1952. O. G. Apr. 1.
Canned salmon. Columbia River Packers Association. 108,987, Mar. 14, 1916. Republished Apr. 1.
Canned salmon. Columbia River Packers Association. 113,692, Oct. 31, 1916. Republished Apr. 1.
Cheese. Riksost S. M. R:s Ostlagerforening U. P. A. 556,912, Apr. 1; Serial No. 603,816, published Dec. 4, 1951.
Cheese flavored corn food or confection. Tasty-Krisp Products, Inc., Detroit, Mich. 557,088, Apr. 1; Serial No. 582,254.
Chocolate, Prepared edible. Lamont, Corliss & Company. 293,168, renewed Apr. 12, 1952. O. G. Apr. 1.
Corn syrup, corn oil, corn gluten, etc. Clinton Industries Inc. 556,829, Apr. 1; Serial No. 550,023, published Jan. 8, 1952.
Fish, Preserved, pickled, salted, and canned. Hijos De Carlos Albo. 290,513, renewed Jan. 5, 1952. O. G. Apr. 1.
Flavored and unflavored yogurt, yogurt drinks, natural and processed cheese, etc. Gaymont Laboratories, Inc. 556,999, Apr. 1; Serial No. 614,548, published Dec. 18, 1951.
Food, Cat. Vitamont Sales Company. 287,170, renewed Sept. 15, 1951. O. G. Apr. 1.
Food, Fish. Vitamont Sales Company. 287,168, renewed Sept. 15, 1951. O. G. Apr. 1.
Food, Fox. Vitamont Sales Company. 287,169, renewed Sept. 15, 1951. O. G. Apr. 1.
Foods, Sugarless. E. Schneider. 386,714, Apr. 22, 1941. New certificate. O. G. Apr. 1.
Fruit peel and fruit, Candied. Adolf J. Mainzer, Inc. 556,884, Apr. 1; Serial No. 593,182, published Jan. 8, 1952.
Fruits, Fresh citrus. Hillsborough Packing Company. 556,957, Apr. 1; Serial No. 611,130, published Dec. 4, 1951.
Fruits, Fresh deciduous, fresh Persian melons, fresh citrus fruits, etc. Z. Asamen. 290,890, renewed Jan. 19, 1952. O. G. Apr. 1.
Fruits, Fresh deciduous and citrus. J. G. Sewell. 557,076, Apr. 1; Serial No. 562,088.
Jams, marmalades, preserves, etc. St. Martin Preserving Co. Limited. 288,356, Oct. 27, 1931. Republished Apr. 1.
Malt used as an ingredient for foods, Highly diastatic. C. J. Patterson Company. 556,908, Apr. 1; Serial No. 601,275, published Jan. 8, 1952.
Milk, Hypo-allergenic whole. Wyeth Incorporated. 556,832, Apr. 1; Serial No. 552,522, published Dec. 4, 1951.
Milk products. Merrell-Soule Co. 86,312, re-renewed Apr. 30, 1952. O. G. Apr. 1.
Milk, Sterilized, concentrated milk, condensed milk, etc. B. Milchgesellschaft. 556,836, Apr. 1; Serial No. 557,427, published Dec. 25, 1951.
Molasses. American Molasses Co. 84,799, re-renewed Jan. 9, 1952. O. G. Apr. 1.
Nuts, Mixed. Eaton & Eustis Company. 557,091, Apr. 1; Serial No. 585,837.
Nuts, Salted shelled and unsalted unshelled. Salem Nut Growers Cooperative. 557,051, Apr. 1; Serial No. 605,329.
Pickles. Dailey Pickle & Canning Company. 557,090, Apr. 1; Serial No. 584,183.
Pop corn. The Dan Dee Pretzel and Potato Chip Company. 556,966, Apr. 1; Serial No. 611,891, published Dec. 4, 1951.
Potatoes. F. C. Peters, Inc. 349,456, Aug. 31, 1937. Republished Apr. 1.
Potatoes. F. C. Peters. 335,010, May 19, 1936. Republished Apr. 1.
Rice. Frugone & Preve. 279,235, Jan. 13, 1931. Republished Apr. 1.
Sandwiches. H. Bonebrake. 557,082, Apr. 1; Serial No. 569,188.
Sausage. E. Rohrmann. 557,084, Apr. 1; Serial No. 577,227.
Syrup, Pancake. P. J. Wheeler. 556,971, Apr. 1; Serial No. 612,192, published Dec. 4, 1951.
Syrup, Sorghum flavored. W. L. and O. L. Hillman. 556,975, Apr. 1; Serial No. 612,260, published Dec. 4, 1951.
Tea, coffee, cocoa, etc. R. Twining & Company, Limited. 556,838, Apr. 1; Serial No. 558,672, published Dec. 25, 1951.
Vegetables, Fresh. F. C. Peters, Inc. 364,787–8, Feb. 14, 1939. Republished Apr. 1.
Vegetables, Fresh. F. C. Peters, Inc. 366,124, Mar. 28, 1939. Republished Apr. 1.
Vegetables, Fresh, and potatoes. F. C. Peters, Inc. 366,569, Apr. 18, 1939. Republished Apr. 1.
Vegetables, Fresh, and potatoes. F. C. Peters, Inc. 366,571, Apr. 18, 1939. Republished Apr. 1.

CLASS 49

Alcoholic beverages. The Crosse & Blackwell Company. 557,041, Apr. 1; Serial No. 598,784.
Whiskey. G. Singer. 347,809, July 6, 1937. Canceled Feb. 20, 1952. O. G. Apr. 1.

CLASS 50

Fibreboard which is a leather substitute. George O. Jenkins Company. 556,949, Apr. 1; Serial No. 610,622, published Nov. 13, 1951.
Figurines, Porcelain. Castle Distributing Corporation. 556,935, Apr. 1; Serial No. 608,982, published Nov. 13, 1951.
Visual idea plotting guide for artists, designers, etc. R. A. Haas. 536,886, Apr. 1; Serial No. 594,045, published Dec. 4, 1951.

CLASS 51

Cleansing cream, night cream, hand cream, etc. Consolidated Cosmetics. 557,846, Apr. 1; Serial No. 574,134, published Dec. 25, 1951.
Cologne, perfume, sachet powder, etc. F. Rothchild. 556,931, Apr. 1; Serial No. 607,044, published Dec. 25, 1951.
Cosmetic. The Janalyn Laboratories, Inc. 556,893, Apr. 1; Serial No. 596,924, published Nov. 27, 1951.
Cuticle removing preparations and nail polish. Lillian Wallace, Inc. 556,859, Apr. 1; Serial No. 581,222, published Mar. 27, 1951.
Denture adhesive. A. Marin. 556,943, Apr. 1; Serial No. 609,935, published Nov. 27, 1951.
Deodorant, Solidified. John Hudson Moore, Inc. 556,901, Apr. 1; Serial No. 599,644, published Dec. 25, 1951.
Face powder, lipstick, rouge, etc. Société Lancôme, S. A. 556,852, Apr. 1; Serial No. 577,004, published Dec. 25, 1951.
Foot cream, pore cream, skin freshener, etc. Wayne University of Beauty Culture, Inc. 365,833, Mar. 21, 1939. New certificate. O. G. Apr. 1.
Hair pomade and pressing oil. Mrs. G. M. Brown. 556,978, Apr. 1; Serial No. 612,438, published Nov. 27, 1951.
Hair tinting and coloring preparations. Clairol Incorporated. 556,892, Apr. 1; Serial No. 595,761, published Dec. 25, 1951.
Hand and skin cream. Chamberlain Laboratories, Inc. 556,972, Apr. 1; Serial No. 612,243, published Nov. 27, 1951.
Lipsticks. Lehn & Fink Products Corporation. 556,963, Apr. 1; Serial No. 611,792, published Nov. 27, 1951.
Mouthwashes. Extraction & Chemical Company Inc. 556,869, Apr. 1; Serial No. 585,919, published Jan. 1, 1952.
Natural or synthetic essential oils, aromatic chemicals, etc. Firmenich Incorporated. 556,921, Apr. 1; Serial No. 605,476, published Nov. 27, 1951.
Perfume. Caron Corporation. 557,079, Apr. 1; Serial No. 563,663.
Perfume. Edouard Perfume Company, Inc. 556,853, Apr. 1; Serial No. 577,527, published May 29, 1951.
Perfume. Parfums Evyan Inc. 556,890, Apr. 1; Serial No. 594,919, published Nov. 27, 1951.
Shaving soap. Cussons, Sons & Company, Limited. 291,220, Feb. 2, 1932. Republished Apr. 1.
Toothpaste. Laboratoires Goupil-Savenor. 556,850, Apr. 1; Serial No. 576,646, published Dec. 25, 1951.

CLASS 52

Cleaner, Sulphonated liquid hand. Lightfoot Schultz Company. 557,000, Apr. 1; Serial No. 614,604, published Jan. 15, 1952.
Cleaner with incidental deodorizing properties, Toilet bowl. Stanley Home Products, Inc. 556,951, Apr. 1; Serial No. 610,807, published Jan. 1, 1952.
Cleaning compound. Hillyard Chemical Company. 294,507, renewed May 31, 1952. O. G. Apr. 1.
Cleaning preparation. Barton Chemical Company. 444,193, Sept. 5, 1950. Republished Apr. 1.
Cleaning preparation. H. A. Hinckley. 290,757, renewed Jan. 12, 1952. O. G. Apr. 1.

CLASS 100

Face, body and hair make-up and care. Elizabeth Arden Sales Corporation. 557,022, Apr. 1; Serial No. 581,927, published Jan. 1, 1952.
Furnishing medical care on a pre-payment basis. Blue Shield Medical Care Plans. 557,037, Apr. 1; Serial No. 589,371, published Jan. 8, 1952.
Organizing of chapters in a national collegiate fraternity and maintaining membership therein. Alpha Chi Rho Fraternity. 557,039, Apr. 1; Serial No. 603,564, published Jan. 8, 1952.

Provision and maintenance of lodgings and other motor court and motel accommodations. United Motor Courts, Incorporated. 557,036, Apr. 1; Serial No. 550,632, published Jan. 8, 1952.
Restaurant services. John R. Thompson Co. 557,035, Apr. 1; Serial No. 615,420, published Jan. 8, 1952.

CLASS 101

Advertising goods and services of others. T. L. Smith. 557,014, Apr. 1; Serial No. 532,511, published Jan. 8, 1952.
Advertising services. Disney Color-Ad Inc. 557,032, Apr. 1; Serial No. 611,078, published Jan. 15, 1952.
Advertising services. W. S. Hopper. 557,019, Apr. 1; Serial No. 567,916, published Jan. 8, 1952.
Advertising the goods of others. D. Powell. 557,028, Apr. 1; Serial No. 604,386, published Jan. 8, 1952.
Employment agency services. Boulevard Employment Service, Inc. 557,029, Apr. 1; Serial No. 605,142, published Jan. 15, 1952.
Radio program broadcasting. Great Trails Broadcasting Corporation. 557,015, Apr. 1; Serial No. 533,017, published Jan. 8, 1952.
Radio program broadcasting. Radio Voice of Springfield, Inc. 557,016, Apr. 1; Serial No. 533,050, published Jan. 8, 1952.
Services in the graphic arts. American Bank Note Company. 557,023, Apr. 1; Serial No. 585,624, published Jan. 15, 1952.

CLASS 102

Real estate brokerage, general insurance brokerage, and real estate appraising. Marshall D. Graham Corporation. 557,093, Apr. 1; Serial No. 597,680.
Services comprising the dissemination of information pertaining to farming and related industries. Farmers Educational and Cooperative Union of America. 557,013, Apr. 1; Serial No. 531,900, published Jan. 8, 1952.
Underwriting of life and endowment insurance, annuity and pure endowment insurance, etc. John Hancock Mutual Life Insurance Company. 557,033, Apr. 1; Serial No. 612,393, published Jan. 15, 1952.
Underwriting the expense of medical care. Blue Shield Medical Care Plans. 557,040, Apr. 1; Serial No. 606,403, published Jan. 8, 1952.

CLASS 103

Installation and repair of plumbing fixtures. J. T. Myers. 557,025, Apr. 1; Serial No. 592,156, published Jan. 8, 1952.
Installing and servicing two-way intercommunication mobile telephones. J. M. Hart. 557,094, Apr. 1; Serial No. 603,528.
Oil field services. Byron Jackson Co. 557,020, Apr. 1; Serial No. 577,673, published Jan. 15, 1952.
Rental of tools and equipment. A. Wilson. 557,021, Apr. 1; Serial No. 578,181, published Jan. 8, 1952.
Service, maintenance and repair of vacuum cleaners and floor polishers, and accessories therefor, etc. Electrolux Corporation. 557,026, Apr. 1; Serial No. 603,777, published Jan. 8, 1952.

CLASS 105

Bus transportation services. Intermountain Transportation Company. 557,034, Apr. 1; Serial No. 612,743, published Jan. 15, 1952.
Transportation of passengers, freight and mail by airplane. Western Air Lines, Inc. 557,092, Apr. 1; Serial No. 593,893.

CLASS 106

Developing, enlarging, reproducing, coloring and printing of pictures. Distributors Photo Finishing Co. 557,024, Apr. 1; Serial No. 590,873, published Jan. 8, 1952.
Etching of plates and cylinders and the furnishing of advisory services. Interchemical Corporation. 557,018, Apr. 1; Serial No. 561,313, published Jan. 8, 1952.
Plating of sentimentally valuable articles. The Bron-Shoe Company. 557,027, Apr. 1; Serial No. 604,144, published Jan. 8, 1952.
Spinning metal parts from flat sheet metal on customer's order. Spincraft, Inc. 557,012, Apr. 1; Serial No. 507,921, published Jan. 8, 1952.

CLASS 107

Entertainment service. E. H. Butler. 557,017, Apr. 1; Serial No. 539,647, published Jan. 15, 1952.
Entertainment through the medium of television programs. R. W. Ehle. 557,031, Apr. 1; Serial No. 608,498, published Jan. 15, 1952.
Instructing in the playing of the accordion. J. J. Buchicchio. 557,030, Apr. 1; Serial No. 605,279, published Jan. 8, 1952.
Rendering civic and moral educational services. Optimist International. 557,038, Apr. 1; Serial No. 598,320, published Jan. 8, 1952.

LIST OF DESIGN PATENTEES

Adler, Samuel E., Chicago, Ill. Radio cabinet. 166,290, Apr. 1.

Adler, Samuel E., Chicago, Ill. Radio cabinet. 166,291, Apr. 1.

Anemostat Corporation of America, assignee: *See*—
Kurth, Franz J.

Anthony, Howard E., assignor to Heath Company, Benton Harbor, Mich. Rotatable control knob. 166,292, Apr. 1.

Aurand Mfg. & Equip. Co., assignee: *See*—
Falls, John J.

Baier, Ludwig H., Hollis, assignor, by mesne assignments, to Fruit Products Corporation, New York, N. Y. Frozen confection. 166,293, Apr. 1.

Beck, George A., Manlius, N. Y., assignor to General Electric Company. Radio receiver. 166,294, Apr. 1.

Blod, Francis E., Tuckahoe, N. Y., and A. M. Blumenfeld, Hackensack, N. J., assignors to The Gruen Watch Company, Cincinnati, Ohio. Watch box. 166,295, Apr. 1.

Blumenfeld, Alfred M.: *See*—
Blod, Francis E., and Blumenfeld.

Brooks, John W., Syracuse, N. Y. Lighting fixture wall bracket. 166,296, Apr. 1.

Bruce, Leo I., Framingham Center, Mass., assignor to General Electric Company. Clockcase. 166,297, Apr. 1.

Chipman, Richmond L., Jr., Montclair, N. J., assignor of twenty-five per cent to M. Schaffer and twenty-five per cent to H. Schaffer, New York, N. Y., and twenty-five per cent to A. Schaunder and twenty-five per cent to R. Schaunder, East Orange, N. J. Ring box or similar article. 166,298, Apr. 1.

Corbett, Joseph R., assignor to Nu Tone, Inc., Cincinnati, Ohio. Ceiling ventilator for heating and air conditioning. 166,299, Apr. 1.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Curtis, Philip C., Scottsdale, Ariz. Table. 166,300, Apr. 1.

Dairy Queen National Trade Association Incorporated, assignee: *See*—
Lind, Carl J.

Dispensa, Anthony, Hinsdale, Ill. Hat ornament or the like. 166,301, Apr. 1.

Doerfler, Robert L., assignor to The International Silver Company, Meriden, Conn. Spoon or other article of flatware. 166,302, Apr. 1.

Eisler, Charles, South Orange, N. J. Spot welder. 166,303, Apr. 1.

Falls, John J., assignor to Aurand Mfg. & Equip. Co., Cincinnati, Ohio. Surface cleaning tool. 166,304, Apr. 1.

Falls, John J., assignor to Aurand Mfg. & Equip. Co., Cincinnati, Ohio. Surface cleaning tool. 166,305, Apr. 1.

Frackman, Hy, New York, N. Y. Finger ring. 166,306, Apr. 1.

Fruit Products Corporation, assignee: *See*—
Baier, Ludwig H.

General Electric Company, assignee: *See*—
Beck, George A.
Bruce, Leo I.
Montmeat, Richard.
Petzold, William B.

Gibbs, Robert K., Evansville, Ind., assignor to Tri-State Plastic Molding Co., Henderson, Ky. Rack for food products. 166,307, Apr. 1.

Grant, Albert C., Leavenworth, Kans. Cart for a golf bag. 166,308, Apr. 1.

Gruen Watch Company, The, assignee: *See*—
Blod, Francis E., and Blumenfeld.

Halton, Robert C., Fort Worth, Tex. Finger ring. 166,309, Apr. 1.

Hanson, Ernest W., assignee: *See*—
Thornton, George D.

Harrison, Mary, Oakland, Calif. Dispensing cabinet. 166,310, Apr. 1.

Heath Company, assignee: *See*—
Anthony, Howard E.

Hense, Emma C., Centralia, Wash. Cup. 166,311, Apr. 1.

Holland, Raymond T., Macon, Mo. Safety light. 166,312, Apr. 1.

Hussey, John, High Point, N. C. Ear protector against heat and air from hair driers. 166,313, Apr. 1.

Imperial Lighting Products Company, Inc., assignee: *See*—
Wilson, Paul D.

International Silver Company, The, assignee: *See*—
Doerfler, Robert L.

Jahncke, Roger H., assignor to "Jancke S. A.," Geneva, Switzerland. Clock or similar article. 166,314, Apr. 1.

"Jancke S. A.," assignee: *See*—
Jahncke, Roger H.

Janoff, Karl P., Belleville, N. J. Combined shoe horn and comb. 166,315, Apr. 1.

Juergens, John, McHenry, Ill. Lamp. 166,316, Apr. 1.

Kairalla, Eleanor, New York, N. Y. Cap. 166,317, Apr. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 166,318, Apr. 1.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Separable brooch or the like. 166,319, Apr. 1.

Kemper, Charles M., Fort Lauderdale, Fla. Combined food and beverage vending station. 166,320, Apr. 1.

Kent, Alla, New York, N. Y. Animated toy figure. 166,321, Apr. 1.

Kurth, Franz J., Mamaroneck, assignor to Anemostat Corporation of America, New York, N. Y. Air diffusing outlet for ventilating systems. 166,322, Apr. 1.

Kurth, Franz J., Mamaroneck, assignor to Anemostat Corporation of America, New York, N. Y. Air diffusing outlet for ventilating systems. 166,323, Apr. 1.

Kurth, Franz J., Mamaroneck, assignor to Anemostat Corporation of America, New York, N. Y. Air diffusing outlet for ventilating systems. 166,324, Apr. 1.

Leigh, Cyril W., East Orange, N. J., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 166,325, Apr. 1.

Leigh, Cyril W., East Orange, N. J., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 166,326, Apr. 1.

Lind, Carl J., Skokie, Ill., assignor to Dairy Queen National Trade Association Incorporated, Davenport, Iowa. Spoon. 166,327, Apr. 1.

Maring, Walter A., Huntington Park, Calif. Lacing hook for shoes or similar articles. 166,328, Apr. 1.

Matasovic, John L., Chicago, Ill. Pressure regulator. 166,329, Apr. 1.

Matasovic, John L., Chicago, Ill. Pressure regulator. 166,330, Apr. 1.

McConnell, James M., Chattanooga, Tenn. Picture frame. 166,331, Apr. 1.

Melich, Edwin G.: *See*—
Melich, James J. and E. G.

Melich, James J. and E. G., Chicago, Ill. Combined garden cultivating and measuring tool. 166,332, Apr. 1.

Montmeat, Richard, Syracuse, N. Y., assignor to General Electric Company. Radio receiver. 166,333, Apr. 1.

Moon, Lester, Chicago, Ill. Combined bird perch and mirror. 166,334, Apr. 1.

Morgan, Jack, assignor to Price Brothers, Inc., Chicago, Ill. Illuminable sign. 166,335, Apr. 1.

Motor Products Corporation, assignee: *See*—
Walter, John H.

Nu Tone, Inc., assignee: *See*—
Corbett, Joseph R.

Onondaga Pottery Company, assignee: *See*—
Leigh, Cyril W.
Otis, Edward M.

Otis, Edward M., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 166,336, Apr. 1.

Park, Tracy S., Houston, Tex. Golf club putter head. 166,337, Apr. 1.

Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Table or similar article. 166,338, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,339, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,340, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,341, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 166,342, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 166,343, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 166,344, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 166,345, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,346, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,347, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,348, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or similar article. 166,349, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 166,350, Apr. 1.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,351, Apr. 1.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,352, Apr. 1.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 166,353, Apr. 1.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Necklace or the like. 166,354, Apr. 1.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,355, Apr. 1.
Potchen, Joseph A., Grand Rapids, Mich. Tray. 166,356, Apr. 1.
Price Brothers, Inc., assignee: *See*— Morgan, Jack.
Schaffer, Harriet, assignee: *See*— Chipman, Richmond L., Jr.
Schaffer, Milton, assignee: *See*— Chipman, Richmond L., Jr.
Schaunder, Allan, assignee: *See*— Chipman, Richmond L., Jr.
Schaunder, Ruth, assignee: *See*— Chipman, Richmond L., Jr.
Severin, Gordon H., Oklahoma City, Okla. Dispenser for slender articles. 166,357, Apr. 1.
Shain, Nathan, Brooklyn, N. Y. Hanukkah Menorah. 166,358, Apr. 1.
Sherman, Ralliston M., Glastonbury, assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn. Portable heater and blower unit. 166,359, Apr. 1.
Shinn, Charles C., Greenbelt, Md. Table. 166,360, Apr. 1.
Siegel, Jacob, San Francisco, Calif. Wine display unit. 166,361, Apr. 1.
Silent Glow Oil Burner Corporation, The, assignee: *See*— Sherman, Ralliston M.
Spector, Maurice A., New York, N. Y. Handbag or similar article. 166,362, Apr. 1.
Terry, Trent B., Charlottesville, Va. Shorts. 166,363, Apr. 1.
Thornton, George D., Berkley, assignor of one-half to E. W. Hanson, Hazel Park, Mich. Television reminder. 166,364, Apr. 1.
Thorward, George W., Caldwell, N. J. Hamburger mold or similar article. 166,365, Apr. 1.
Todd, Caroline O., Miami, Fla. Cap or the like. 166,366, Apr. 1.
Trifari, Krussman & Fishel, Inc., assignee: *See*— Philippe, Alfred.
Tri-State Plastic Molding Co., assignee: *See*— Gibbs, Robert K.
Walter, John H., Grosse Pointe, assignor to Motor Products Corporation, Detroit, Mich. Refrigerator cabinet. 166,367, Apr. 1.
Wenander, Per E., Cincinnati, Ohio. Combined sets of coasters and package therefor or similar article. 166,368, Apr. 1.
White, Elmer L., Evanston, Ill. Smoker's accessory. 166,369, Apr. 1.
Wilson, Paul D., assignor to Imperial Lighting Products Company, Inc., Greensburg, Pa. Lighting fixture. 166,370, Apr. 1.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, George G. *See*— Swerdlow, Nathan, and Abel.
Ackermann, Frederick: *See*— Van Tuyl, Thomas, and Ackermann.
Adams, David H., Whitinsville, Mass. Window cleaning and the like device. 2,590,913, Apr. 1.
Adams, Eli J., Rogersville, Mo. Hydraulic lift. 2,591,489, Apr. 1.
Adams, Harry D., Allston, assignor to J. D. Ramsey, Watertown, Mass., in trust. Method and apparatus for making knitted fabrics. 2,590,914, Apr. 1.
Adams, Loyd: *See*— Stupin, Peter J., and Adams.
Adams, Merrill L., Modesto, Calif. Irrigation signal device. 2,591,037, Apr. 1.
Affiliated Gas Equipment, Inc., assignee: *See*— Cartter, William G.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*— Fein, Martin L., and Fisher.
Ajdukovich, George, St. Louis, Mo. Cigarette supporting cover. 2,591,113, Apr. 1.
Aktiebolaget Atlas Diesel, assignee: *See*— Camner, Hilding G.
Aktiebolaget Atvidaberg-Facit, assignee: *See*— Grip, Erik K.
Aktiebolaget C. E. Johansson, assignee: *See*— Hård af Segerstad, Carl G., and Magnusson.
Aktiebolaget Separator, assignee: *See*— Bergner, Nore E.
Aladdin Industries, Incorporated, assignee: *See*— Lyman, Harold T., and De Tar.
Alexander, Frank C., Jr.: *See*— Lester, Raymond H., Cannon, and Alexander.
Allen, Herbert, assignor to Cameron Iron Works, Houston, Tex. Gate valve. 2,591,038, Apr. 1.
Allen, Oliver L., Riverside, assignor to Electrolux Corporation, Old Greenwich, Conn. Air filter. 2,591,490, Apr. 1.
Allen, Richard C.: *See*— Millman, Jacob, and Allen.
Allison, Mary L., Vancouver, British Columbia, Canada. Adjustable brassière. 2,590,915, Apr. 1.
Altiere, Daniel M., South Bound Brook, N. J., and R. A. Burton, South Euclid, assignors to The Sherwin-Williams Co., Cleveland, Ohio. Dispensing container for dust. 2,591,653, Apr. 1.
Aluminium Laboratories Limited, assignee: *See*— James, William A.
Aluminum Company of America, assignee: *See*— Edwards, Junius D.
American Cyanamid Company, assignee: *See*— Thurston, Jack T.
American Dairies Incorporated, assignee: *See*— Turner, Charles W., and Reineke.
American Forging and Socket Company, assignee: *See*— Watts, Daniel M., and Brown.
American Hardware Corporation, The, assignee: *See*— Welch, Nicholas A.
American Optical Company, assignee: *See*— Critoph, David I.
American Seating Company, assignee: *See*— Morgan, Erving B.
American Steel Foundries, assignee: *See*— Kayler, Frank H.
American Tool & Machine Co., assignee: *See*— Tholl, John E.
Amsler, Rudolf, assignor to Schweizerische Industrie-Gesellschaft, Neuhausen on Rheinfall, Switzerland. Variable delivery positive displacement. 2,591,491, Apr. 1.
Anderson, Bror G., South Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Engine mount attachment. 2,591,393, Apr. 1.
Anderson, Floyd W., and S. E. Hill, Kankakee, assignors of Sears, Roebuck and Co., Chicago, Ill. Overtravel control apparatus for hydraulically controlled agricultural implements. 2,591,492, Apr. 1.
Anderson, Robert G., Erie, Pa., assignor to General Electric Company. Fluid pulverizing apparatus. 2,591,330, Apr. 1.
Anderson, Wilmer C., Douglaston, N. Y., assignor to the United States of America as represented by the Secretary of the Navy. Frequency divider. 2,591,114, Apr. 1.
Andrew, Warren M., Washington, D. C. Plate keyer for radar transmitters. 2,590,836, Apr. 1.
Arbuckle, Frederick M.: *See*— Lindley, Frederick A., and Arbuckle.
Arledter, Hanns: *See*— Engelhardt, Rudolf, and Arledter.
Armour and Company, assignee: *See*— Reck, Richard A.
Armour Research Foundation of Illinois Institute of Technology, assignee: *See*— Camras, Marvin.
Armstrong Coalbreak Company, assignee: *See*— Filstrup, Edward C. Filstrup, Edward C., Jr.
Armstrong Cork Company, assignee: *See*— Johnson, Warren C.
Army, United States of America as represented by the Secretary of the, assignee: *See*— Curran, Joseph. Jacobs, Harold, and Martin. Kallmann, Hartmut P. Spencer, Burdell D.
Arnold, Herrick R., Wilmington, and J. E. Carnahan, New Castle, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Metal molybdite catalyzed dehydration process. 2,591,493, Apr. 1.
Asachika, George R., Miami, Fla. Collapsible signboard. 2,591,494, Apr. 1.
Askue, Albert R., Euclid, assignor to The Cleveland Trencher Company, Cleveland, Ohio. Raising and supporting jack for trailers. 2,591,226, Apr. 1.
Atlas Floor Surfacing Machinery Corp., assignee: *See*— Okun, Nathaniel N.
Atlas Steels Limited, assignee: *See*— Davis, Roy H.
Atomiko, Inc., assignee: *See*— Monette, Gib.
Austin, George C., Los Angeles, Calif. Toolholder. 2,591,115, Apr. 1.
Automatic Totalisators Limited, assignee: *See*— Julius, Awdry F. and G. A.
Axler, Meyer H., U. S. Army, Bronx, N. Y. Directional gyroscope. 2,590,837, Apr. 1.
Babcock & Wilcox Company, The, assignee: *See*— Rowand, Will H., and Smith.
Back, Frank G., Glen Cove, N. Y. Optical focusing and illuminating device for photographic cameras and the like. 2,590,916, Apr. 1.
Back, Frank G., New York, and H. Lowen, Forest Hills, N. Y. Wide angle lens construction. 2,590,917, Apr. 1.
Backhouse, Headley T., Sunningdale, England. Sheet separating and forwarding machine. 2,591,110, Apr. 1.
Baker Oil Tools, Inc., assignee: *See*— Ragan, Thomas M.
Baker Perkins Incorporated, assignee: *See*— Hart, John.
Baker, Raymond G.: *See*— Willett, Leon E., and Baker.
Balanacope, Inc., assignee: *See*— Garutso, Stephen E.
Baldwin, John D., Jr., Highland Heights, and F. D. Wyss, Cleveland Heights, assignors to The Weatherhead Company, Cleveland, Ohio. Hand brake assembly. 2,591,495, Apr. 1.
Baldwin-Lima-Hamilton Corporation, assignee: *See*— Lazan, Benjamin J.
Ballentine, Earle W., Laguna Beach, Calif., assignor, by mesne assignments, to Redmond Company, Inc., Owosso, Mich. Shaded pole motor. 2,591,117, Apr. 1.
Bandwagon Manufacturing, Inc., assignee: *See*— Breck, Luther A., Jr.
Banko, George, Euclid, Ohio. Counterbalance for optical projection viewer for machine tools. 2,591,227, Apr. 1.
Barker Saw Company, assignee: *See*— Smith, Albert P.
Barnes, Elias B., Elkhart, Ind. Oil-burning air heater with means for draining spilled oil. 2,591,039, Apr. 1.
Barnes, William E., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Automatic shutoff valve. 2,590,918, Apr. 1.
Barrett, Edwin W.: *See*— Titus, Charles L., and Barrett.
Barth, David, New York, N. Y. Trimming and slitting machine for quilts and the like. 2,591,394, Apr. 1.
Barton, Albert Y.: *See*— Lacy-Hulbert, Cyril, and Barton.
Bartow, Lewis F., Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa. Pneumatic lift conduit and disengager vessel. 2,591,040, Apr. 1.

Basalt Rock Company, Inc., assignee : *See*—
McCall, Donald O.
Basic Vegetable Products Co., assignee : *See*—
Magnuson, Roy M.
Baumbach, Edward W., Kirkwood, Mo. Foot brush. 2,591,331, Apr. 1.
Beaurline, Arthur W. : *See*—
Kraft, Selmer A., and Beaurline.
Bechtold, Max F., Kennett Square, Pa., and H. M. Stark, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing alumina hydrate sols. 2,590,833, Apr. 1.
Beck, Martin A., York, Pa. Rust remover for cooling systems of automobile engines. 2,591,228, Apr. 1.
Becker, Lawrence A., Marble Hill, N. Y. Clothesline adjuster. 2,590,919, Apr. 1.
Beegle, Raymond E., East St. Louis, Ill. Health bed. 2,590,920, Apr. 1.
Beese, William : *See*—
Slifkin, Sam C., and Beese.
Behensky, John A., Rockland Lake, N. Y. Fishing float. 2,591,332, Apr. 1.
Bell Aircraft Corporation, assignee : *See*—
Trotter, John C.
Bell Telephone Laboratories, Incorporated, assignee : *See*—
Curtis, Robert B.
Michal, Joseph.
Miloche, Herman A.
Parkinson, David B.
Walker, Albert C.
Bellamy, John I. : *See*—
Boyer, Richard P., Jr., and Bellamy.
Bellmer, Robert B., West Allis, Wis. Vernier scale measuring device. 2,591,333, Apr. 1.
Belmont Radio Corporation, assignee : *See*—
Gannaway, Robertson R.
Bemis, Ken E., Oakland, Calif. Batter dispenser. 2,590,921, Apr. 1.
Bennett, Gardell L., Schenectady, N. Y., assignor to General Electric Company. Magnetic torque device. 2,591,395, Apr. 1.
Benrus Watch Company, Inc., assignee : *See*—
Lazrus, Benjamin.
Bent, Arthur J., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Valve device. 2,591,118, Apr. 1.
Berg, Bernard, Port Edward, British Columbia, Canada. Tool rack for meat blocks. 2,591,229, Apr. 1.
Berg, Willie, Chicago, Ill. Derby and mute rack holder. 2,591,041, Apr. 1.
Berger Brothers Company, The, assignee : *See*—
Versoy, Irving R.
Bergner, Nore E., Appelviken, assignor to Aktiebolaget Separator, Stockholm, Sweden. Centrifugal separator. 2,591,396, Apr. 1.
Berl, Ernst, deceased, by W. G. Berl, executor, Pittsburgh, Pa. Coking coal. 2,591,496, Apr. 1.
Berl, Ernst, deceased, by W. G. Berl, executor, Pittsburgh, Pa. Filling body for gas-liquid contact towers. 2,591,497, Apr. 1.
Berl, Walter G., executor : *See*—
Berl, Ernst.
Berman, Hans, Forest Hills, N. Y., and R. I. Prupis, Irvington, assignors to Conmar Products Corporation, Newark, N. J. Apparatus for electrolytic treatment of spaced metallic elements. 2,591,042, Apr. 1.
Bernardini, Joseph A. : *See*—
Blewett, Howard W., and Bernardini.
Berndt, Richard F., Racine, Wis., assignor to Virkotype Corporation. Powder separator and dispenser. 2,591,043, Apr. 1.
Bernzott, Hugo : *See*—
Du Mais, Leo J., Bernzott, and Prokop.
Bertrand, Joseph V., Brooklyn, assignor to Hydropress, Incorporated, New York, N. Y. Piston seal. 2,591,230, Apr. 1.
Better Packages Incorporated, assignee : *See*—
Krueger, Theodore H.
Betts, Joseph L., Jr., and A. L. Chaney, Baton Rouge, La., assignors to Standard Oil Development Company. Brominating xylene. 2,591,498, Apr. 1.
Bible, Burl H., Laurens, S. C. Coal tongs. 2,591,499, Apr. 1.
Biggs, Justin A., Jacksonville, Ill. Dental machine control. 2,591,119, Apr. 1.
Black, Judd H., and H. G. Warren, assignors to Eastman Kodak Company, Rochester, N. Y. Vacuum pumping apparatus. 2,591,334, Apr. 1.
Blanchard, William A. Millbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Jack eye for loom harness. 2,591,397, Apr. 1.
Blease, John H., Hatch End, England. Apparatus for the control of respiration resuscitation and anaesthesia. 2,591,120, Apr. 1.
Blewett, Howard W., Ansonia, and J. A. Bernardini, New Haven, Conn. Micrometer bracket. 2,590,922, Apr. 1.
Blind, Karl A., Thiensville, assignor to Dings Magnetic Separator Co., Milwaukee, Wis. Crossbelt magnetic separator. 2,591,121, Apr. 1.
Blind, Karl A., Thiensville, assignor to Dings Magnetic Separator Co., Milwaukee, Wis. Crossbelt magnetic separator. 2,591,122, Apr. 1.
Bloch, Herman S., Chicago, and R. C. Wackher, La Grange, assignors to Universal Oil Products Company, Chicago, Ill. Production of drying oils. 2,590,923, Apr. 1.
Bloom, Robert A. : *See*—
Langmaid, Alvin E., and Bloom.
Bloomer Bros. Company, assignee : *See*—
Bloomer, Harrison C.
Inman, William H.
Bloomer, Harrison C., assignor to Bloomer Bros. Company, Newark, N. Y. Collapsible cardboard carton. 2,591,500, Apr. 1.
Blosser, Herman G., Pittsburgh, Pa., assignor to Westinghouse Air Brake Company. Subdivided coded railway track circuit. 2,590,924, Apr. 1.
Blouin, Maurice A., assignor to Simplex Time Recorder Co., Gardner, Mass. Program signal apparatus. 2,591,335, Apr. 1.
Blumensaadt, Svend G., Beachwood Village, assignor to The Universal Wire Spring Company, Cleveland, Ohio. Wire-straightening fixture. 2,591,123, Apr. 1.
Boadway, Odber E., Pasadena, assignor to Innovations, Inc., Los Angeles, Calif. Sealing and dispensing closure for container necks. 2,591,231, Apr. 1.
Boddey, Ronald F. : *See*—
Strauss, Kossy, and Boddey.
Bodendoerfer, Ray E., and D. C. Fee, Milwaukee, and H. C. Frentzel, Shorewood, assignors to Federal Manufacuring Co., Milwaukee, Wis. Sanitary milk bottle capping head. 2,591,501, Apr. 1.
Boggs, Raymond H., Coronado, Calif. Automatic shut-off valve. 2,590,838, Apr. 1.
Bohannan, Robert C., and H. M. Pickard, Columbus, and H. R. Horning, Parma, assignors to The Jaeger Machine Company, Columbus, Ohio. Road paving machine. 2,591,502, Apr. 1.
Bohn Aluminum & Brass Corporation, assignee : *See*—
Wade, James O.
Bolton, Mell A., assignee : *See*—
Huber, William J.
Bomhardt, Warren C., Baltimore, and E. H. Sorg, Hyde, assignors to The Glenn L. Martin Company, Middle River, Md. Fuel tank construction. 2,591,044, Apr. 1.
Bondhus, Frances J. : *See*—
Johnson, Herbert L., and Bondhus.
Bordelon, Lawrence J., assignor to Consol'dated Vultee Aircraft Corporation, San Diego, Calif. Magnetic and manually operated electric switch. 2,591,336, Apr. 1.
Borkowski, Casimer J., and E. Fairstein, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission. Proportional counter. 2,590,925, Apr. 1.
Bottoms, Robert R., Crestwood, Ky., assignor to National Cylinder Gas Company, Chicago, Ill. Combustion catalyst compositions. 2,591,503, Apr. 1.
Botts, Robert E., Madison, Wis., assignor to Oscar Mayer & Co., Inc., Chicago, Ill. Hog carcass grade calculator. 2,591,504, Apr. 1.
Bouligny, R. H., Inc., assignee : *See*—
Rowe, Oliver R., Schoeneck, and Stolp.
Bowman, Robert S. : *See*—
Stevens, Donald R., and Bowman.
Boyan, Edwin A., Sharon, Mass. Apparatus for production analysis. 2,591,124, Apr. 1.
Boyer, Richard P., Jr., La Grange, and J. I. Bellamy, Wheaton, assignors to Kellogg Switchboard and Supply Company, Chicago, Ill. Multirelay electric timer. 2,590,926, Apr. 1.
Bradley, Warren : *See*—
Peters, Norman J., and Bradley.
Brandt, Weldon H., Wilkinsburg, Pa., M. W. Rider, Morgantown, W. Va., and R. C. Westphal, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrolytic method of removing burrs. 2,590,927, Apr. 1.
Brantford Coach and Body Limited, assignee : *See*—
Gurton, William S., and Nyberg.
Braun, Alfred E., assignee : *See*—
Weltlich, Robert T.
Braun, Orville A., Los Angeles, Calif. Combination comb and liquid dispenser. 2,591,125, Apr. 1.
Breck, Luther A., Jr., Wellesley, assignor to Bandwagon Manufacturing, Inc., Boston, Mass. Bird feeder. 2,591,126, Apr. 1.
Breeze Corporations, Inc., assignee : *See*—
Picciano, Michael A.
Brepson, Roland : *See*—
Drisch, Nicolas, and Brepson.
Brewster, Albert, assignor of one-fourth to J. M. Rutter, one-fourth to F. W. Fitzgerald, Sr., Bowling Green, and one-fourth to C. L. Davis, Perry, Mo. Gear box. 2,591,127, Apr. 1.
Brink, Earle H., Kenmore, assignor to Western Electric Company, Incorporated, New York, N. Y. Die mechanism for wire coating apparatus. 2,591,505, Apr. 1.
British Celanese Limited, assignee : *See*—
Martin, Robert.
British Insulated Callender's Cables Limited, assignee : *See*—
Richardson, Arthur B. F. G., Tunnicliff, and Fisher.
Broadhurst, Charles J., Oxford, England. Loose-leaf binder. 2,590,928, Apr. 1.
Brock, Walter B., Vernon, N. Y. Fire tube furnace with flue gas turbulator. 2,591,398, Apr. 1.

Brooks, Lester A., East Norwalk, Conn., M. Markarian, North Adams, and M. Nazzewski, Adams, assignors to Sprague Electric Company, North Adams, Mass. 2-vinyl-thiazole. 2,591,506, Apr. 1.
Brooks, Maurice E. : *See*—
Rollins, Jennings F., and Brooks.
Brougham, Leslie E., Purley, and J. Perrin, Croydon, assignors to Powers-Samas Accounting Machines Limited, London, England. Data transmitting means in record controlled statistical machines. 2,591,128, Apr. 1.
Brous, Donald W., Francestown, assignor to Food Engineering Corporation, Manchester, N. H. Sanitary liquid dispensing machine. 2,591,507, Apr. 1.
Brouwer, Rodger D., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Lubricating method. 2,591,129, Apr. 1.
Browder, Lewis B., La Canada, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y. Sound recording system. 2,591,045, Apr. 1.
Brown, Andrew, Company, assignee : *See*—
Wilson, Bert.
Brown, Cicero C., and F. L. Scott, Jr., Houston, Tex. Jar. 2,591,130, Apr. 1.
Brown, Frank E., Burbank, assignor to F. M. Turnbull, Los Angeles, Calif. Hypodermic syringe assembly. 2,591,046, Apr. 1.
Brown, Grant S., Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Extrusion apparatus. 2,591,508, Apr. 1.
Brown Hollis P. : *See*—
Watts, Daniel M., and Brown.
Brown, Vincent C., Big Stone City, S. Dak. Window screen for vehicles. 2,591,232, Apr. 1.
Browne, Kenneth J., Huntington Park, Calif. Earth auger. 2,591,233, Apr. 1.
Brus, Emile P., Kansas City, Mo. Portable electric service lamp. 2,591,131, Apr. 1.
Bryant, Chester, assignee : *See*—
Martin, Thomas A.
Buckland, Bruce O., and A. Howard, Schenectady, N. Y., assignors to General Electric Company. Power plant frame structure having air-cooling means for turbine rotors and exhaust frame struts. 2,591,399, Apr. 1.
Budd Company, The, assignee : *See*—
Dean, Albert G.
Schiff, Karl L.
Buffalo Eclipse Corporation, assignee : *See*—
Denis, Jean C.
Buffalo-Eclipse Corporation, assignee : *See*—
Johnson, Horace J.
Buffalo Electro-Chemical Company, Inc., assignee : *See*—
Greenspan, Frank P., and MacKellar.
Bulcao, Wilbur H. : *See*—
Huggins, Leroy G., and Bulcao.
Burdick Corporation, The, assignee : *See*—
Gilson, Warren E.
Burge, James S., Anderson, H. J. McKee, Middletown, and W. M. Rider, L. H. Conrad and F. J. Foust, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Condenser winding testing and sorting apparatus. 2,591,047, Apr. 1.
Burgess, Louis, Jersey City, N. J. Coffee maker. 2,591,132, Apr. 1.
Burklin, Adolf J., Toledo, Ohio, assignor, by mesne assignments, to A. O. Smith Corporation, Milwaukee, Wis. Water heater system. 2,591,400, Apr. 1.
Burns, Joseph K., Londonbridge, assignor to National Wire Hanger Manufacturing Co., Inc., Norfolk, Va. Garment hanger construction. 2,591,234, Apr. 1.
Burton, Russell A. : *See*—
Altiere, Daniel M., and Burton.
Bush, Russell J., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Connector strip. 2,591,048, Apr. 1.
Bush, William W., Essex Fells, N. J. Railing. 2,590,929, Apr. 1.
Butsch, William G., Fort Thomas, Ky. Crane loading portable bar rack. 2,591,049, Apr. 1.
Butsch, William G., Fort Thomas, Ky. Roof for truck bodies. 2,591,050, Apr. 1.
Butterworth, Gilbert J., Chester, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Circuit control for well surveying instruments. 2,590,930, Apr. 1.
Button, Thomas B. : *See*—
Roberts, Philip B., and Button.
C. J. W. Corporation, assignee : *See*—
Elsner, Edwin C.
Cabaniss, Bert A., Falfurrias, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Chemically heated paraffin knife. 2,590,931, Apr. 1.
Calavo, Inc., assignee : *See*—
Stupin, Peter J., and Adams.
Caldwell, Byrt C., Scituate, assignor, by mesne assignments, to H. K. Chisholm, Wellesley, Mass. Tripod. 2,591,051, Apr. 1.
Caldwell, Frank W., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Aircraft turbine-propeller control system. 2,590,932, Apr. 1.
California Institute Research Foundation, assignee : *See*—
Campbell, Dan H., Koepfli, and Pauling.
California Research Corporation, assignee : *See*—
Yost, Lloyd.
Calingaert, George, Geneva, N. Y., and H. Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Manufacture of alkyl lead compounds. 2,591,509, Apr. 1.
Cameron Iron Works, assignee : *See*—
Allen, Herbert.
Camner, Hilding G., Storangen, assignor to Aktiebolaget Atlas Diesel, Sickla, Sweden. Fuel injection device. 2,591,401, Apr. 1.
Campbell, Arthur B., La Salle, Ill., assignor to General Time Corporation, New York, N. Y. Timing movement. 2,591,402, Apr. 1.
Campbell, Dan H., Altadena, J. B. Koepfli, San Marino, and L. Pauling, Sierra Madre Villa, assignors to California Institute Research Foundation, Pasadena, Calif. Producing gelatin derivative. 2,591,133, Apr. 1.
Camras, Marvin, assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill. Reel. 2,591,052, Apr. 1.
Canada Paper Company, assignee : *See*—
Tomlinson, George H., and Swartz.
Canarils, Svend A., Jacksonville, Fla. Method of and apparatus for the aeration of liquids. 2,591,134, Apr. 1.
Cannon, Melvin C. : *See*—
Lester, Raymond H., Cannon, and Alexander.
Carissimi, Louis C., Fairfield, Conn., assignor to Remington Rand Inc., New York, N. Y. Shaver head. 2,591,403, Apr. 1.
Carlson, Leonard H., Braintree, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrostatic precipitator. 2,591,404, Apr. 1.
Carnahan, James E. : *See*—
Arnold, Herrick R., and Carnahan.
Carrie, William D. : *See*—
Stavoe, Arthur M., and Carrie.
Carter Carburetor Corporation, assignee : *See*—
Ericson, George R.
Newman, Odus O.
Carter, Elbert P., Wayland, and C. M. Hammel, Winchester, assignor to Transducer Corporation, Boston, Mass. Pulse generating circuits. 2,591,406, Apr. 1.
Carter, John E., Columbus, Ohio. Dowel bar and joint sealing strip construction. 2,590,933, Apr. 1.
Carter, Joseph S., assignor of one-third to S. J., and one-third to L. D. Rosenstein, Hartford, Conn. Stop motion device for knitting machines. 2,591,405, Apr. 1.
Cartter, William G., Monrovia, Calif., assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Individual vertical-type fuel-burning heater. 2,591,235, Apr. 1.
Catlett, William G., Kansas City, Kans. Portable Ferris wheel. 2,590,934, Apr. 1.
Celanese Corporation of America, assignee : *See*—
MacLean, Alexander F., and Pickart.
Central Commercial Company, assignee : *See*—
Grove, Clinton.
Century Lighting, Inc., assignee : *See*—
McCandless, Stanley.
Chalmers, John W., and D. R. P. Jackson, assignors to Molins Machine Company, Limited, London, England. Packet making machine. 2,591,135, Apr. 1.
Chamberlin Company of America, assignee : *See*—
Willett, Leon E., and Baker.
Chandler & Price Company, The, assignee : *See*—
Rupp, William C.
Chaney, Allen L. : *See*—
Betts, Joseph L., Jr., and Chaney.
Charlesworth, Reginald D., Dee Why, assignor to Magnavox (Australia) Pty. Ltd., East Sydney, New South Wales, Australia. Loud-speaker made from separate units having locking ring securing units together. 2,590,935, Apr. 1.
Chisholm, Harold K., assignee : *See*—
Caldwell, Byrt C.
Christie, Cleve F., Knoxville, Tenn. Antifouling anchor. 2,591,236, Apr. 1.
Ciba Limited, assignee : *See*—
Schmid, Max, Danuser, Johner, Moser, and Wuergler.
Cities Service Research and Development Company, assignee : *See*—
Dermer, Otis C., and Hawkins.
Clapham, Harry F., Wilmington, Del. Fabric wear tester. 2,590,839, Apr. 1.
Clark, Frank D., Des Moines, Iowa. Iron cord support and retriever. 2,590,936, Apr. 1.
Clark, Harold A., assignor to Dow Corning Corporation, Midland, Mich. Organosilicon resins. 2,590,937, Apr. 1.
Clark, Jesse H., assignor to Cory Corporation, Chicago, Ill. Citrus fruit press. 2,591,510, Apr. 1.
Clarke, Alfred G., assignor to Ronald Trist & Co. Limited, Slough, England. Voltage unbalance indicating system. 2,591,511, Apr. 1.
Clayton, Thomas L., Wheeling, W. Va. Timer switch plate for toggle switches. 2,590,840, Apr. 1.
Cleary, Leo P., Chicago, Ill., and C. G. Farr, Abilene, Tex., assignors to Wilson & Co., Inc. Can sealer. 2,591,136, Apr. 1.
Cleveland Trencher Company, The, assignee : *See*—
Askue, Albert R.

Cobb, Leland D., Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich. Separator for anti-friction bearings. 2,590,939, Apr. 1.

Cohen, Aaron, Welwyn Garden City, England, assignor to Hoffmann-La Roche Inc., Nutley, N. J. Manufacture of pyridoxin. 2,590,841, Apr. 1.

Cohen, Samuel H., Brookline, and E. Piltch, Cambridge, Mass. Bracket for automobile signs. 2,591,337, Apr. 1.

Cohn, Eugene: *See*— Cohn, Samuel, Walter, and Cohn.

Cohn, Samuel, J. G. Walter, and E. Cohn, New York, assignors to Samcoe Holding Corporation, Woodside, N. Y. Apparatus for handling tubular textile fabrics. 2,590,938, Apr. 1.

Colt, Burton C., Jr., assignor to Tri-State Engineering Company, Washington, Pa. Shipping crate. 2,590,941, Apr. 1.

Cole, Steve, North Platte, Nebr. Guide mechanism for tank balls. 2,591,137, Apr. 1.

Coles, Robert F.: *See*— Tulagin, Vsevolod, and Coles.

Colgan, William G., Oakland, Calif. Decoy. 2,590,842, Apr. 1.

Colgate-Palmolive-Peet Company, assignee: *See*— Marshall, Donald E.

Collins & Aikman Corporation, assignee: *See*— Keen, William R., and Hewton.

Collins, Edward J., Los Angeles, Calif., assignor to R. T. Moloney, Chicago, Ill. Hydraulic governor head with speeder spring adjusting means. 2,590,940, Apr. 1.

Collins Radio Company, assignee: *See*— Salisbury, Winfield W.

Collis, Leslie A., Radlett, England. Conveyer. 2,591,237, Apr. 1.

Columbian Carbon Company, assignee: *See*— Sweitzer, Carl W.

Compagnie Generale De Telegraphie Sans Fil, assignee *See*— Warnecke, Robert.

Conmar Products Corporation, assignee: *See*— Berman, Hans, and Prupis.

Conner, Guy O., Cleveland Heights, Ohio. Clam 2,591,512, Apr. 1.

Conrad, Loris H.: *See*— Burge, James S., McKee, Rider, Conrad, and Foust.

Consolidated Vultee Aircraft Corporation, assignee: *See*— Bordelon, Lawrence J.

Cooley, Austin G., assignor to Times Facsimile Corporation, New York, N. Y. Facsimile apparatus employing a stylus. 2,591,138, Apr. 1.

Cooper, Leo, Stamford, Conn., assignor to P & K Incorporated. Fishing reel. 2,591,338, Apr. 1.

Cordo Chemical Corporation, assignee: *See*— Ditto, Marvin W., and Hugger.

Cormier, Leone W., Inglewood, Calif. Maternity jumper. 2,591,513, Apr. 1.

Cornelius, Carroll, Seattle, Wash. Cooking stove. 2,590,942, Apr. 1.

Cornelius, Richard T., Minneapolis, Minn. Pressure regulator. 2,591,407, Apr. 1.

Cory Corporation, assignee: *See*— Clark, Jesse H.

Coskey, Alexander N., Mattawan, Mich., and O. E. Erikainen, Chicago, Ill. Fountain pen. 2,590,943, Apr. 1.

Council of Scientific and Industrial Research, assignee: *See*— Siddiqui, Salimuzzaman, Sarin, and Varma.

County Commercial Cars Limited, assignee: *See*— Tapp, Ernest T. J., and Davey.

Courtot, Louis B., assignor to The Weatherhead Company, Cleveland, Ohio. Push type drain valve. 2,591,514, Apr. 1.

Cowdrey, Cecil L., Markyate, and J. Kinsella, Luton, assignors to D. Napier & Son Limited, London, England. Electrical heating apparatus. 2,590,944, Apr. 1.

Crane Co., assignee: *See*— Stavoe, Arthur M., and Carrie.

Crankshaw, John H., Erie, Pa., assignor to General Electric Company. Self-ventilated dynamoelectric machine having an air cleaner. 2,591,408, Apr. 1.

Cremer, Frederick, Chicago, Ill. Steelmaking process. 2,590,843, Apr. 1.

Critoph, David I., Snyder, N. Y., assignor to American Optical Company, Southbridge, Mass. Film handling apparatus for projection devices. 2,591,139, Apr. 1.

Crompton & Knowles Loom Works, assignee: *See*— Blanchard, William A.

Curran, Joseph F., Neptune, N. J., assignor to the United States of America as represented by the Secretary of the Army. Automatic selector clutch assembly for search receivers. 2,590,844, Apr. 1.

Curry, Robert S., Jr., Baldwin, N. Y., assignor to The Sperry Corporation. Signal transformer. 2,590,845, Apr. 1.

Curtis, Robert B., Bethlehem, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Trunk circuit. 2,590,945, Apr. 1.

Curtiss, Leon F.: *See*— Krasnow, Shelley, and Curtiss.

Cutting, Richard H., Cleveland Heights, Ohio. Plaster base. 2,590,846, Apr. 1.

Dahl, John F., Palo Alto, Calif. Tool for removing overflow tube threads in toilets. 2,591,409, Apr. 1.

Dale, Colin B., Oak Park, assignor to Webster-Chicago Corporation, Chicago, Ill. Phonograph. 2,591,515, Apr. 1.

Da-Lite Screen Company, Inc., assignee: *See*— Du Mais, Leo J., Bernzott, and Prokop.

Dalton, John N., and J. P. Ploubides, assignors to Pacific Mills, Lawrence, Mass. Dyeing of wool with high-affinity colloidal dyestuffs and di-ammonium phosphate. 2,590,847, Apr. 1.

Damrow Brothers Company, assignee: *See*— Peters, Norman J., and Bradley.

Danuser, Jakob: *See*— Schmid, Max, Danuser, Johner, Moser, and Wuergler.

Darling, Horace E., North Attleboro, assignor to The Foxboro Company, Foxboro, Mass. Combining measuring circuit. 2,590,946, Apr. 1.

Darnell, Victor L., Spring Valley, Ohio. Dispensing device. 2,591,516, Apr. 1.

Daugherty, Sherman B., assignee: *See*— Springford, Vernon H.

Daussan, Henri J., Metz, France, assignor to The Ferro Engineering Company. Method and device for casting ingots of rimming steel. 2,591,517, Apr. 1.

Davey, Joseph: *See*— Tapp, Ernest T. J., and Davey.

Davis, Charles W., Jr.: *See*— Tierney, William T., Jr., and Davis.

Davis, Chester L., assignee: *See*— Brewster, Albert.

Davis, John J., Lacombe, La. Hermetically sealed compressor and vacuum system. 2,591,238, Apr. 1.

Davis, Roy H., Fonthill, assignor to Atlas Steels Limited, Welland, Ontario, Canada. Apparatus for case-hardening drill rods. 2,591,339, Apr. 1.

Dayton, Carl S., Bridgeport, Conn., assignor to General Electric Company. Hydraulic press operator with automatic speed regulation. 2,591,410, Apr. 1.

Dazzi, Joachim, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. N,N-di(β-carboalkoxyalkyl) alkylbenzene sulfonamides and their use as polyvinyl chloride plasticizers. 2,591,518, Apr. 1.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Panel joint support. 2,591,654, Apr. 1.

De Boisblanc, Deslonde R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Leak compensated capacitor. 2,591,053, Apr. 1.

Decker, David A., Fairfield, Conn., assignor to The McBee Company, Athens, Ohio. Film registering and mounting device. 2,591,519, Apr. 1.

Deckert, Oscar R.: *See*— Witter, Lawrie L., and Deckert.

De Directie van de Staatsmijnen in Limburg, assignee: *See*— Haringhuizen, Pieter J.

De Fligué, Wladimir, Paris, France. Electromagnetic relay or contactor. 2,591,520, Apr. 1.

De Gier, Johannes, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Cathode-ray tube and manufacturing such tubes. 2,591,521, Apr. 1.

Deitz, Henry P., West Hyattsville, Md. Tire pressure equalizers. 2,591,340, Apr. 1.

Dejoy, Jack M., Paynesville, Minn. Ground leveling attachment for tractor cultivators. 2,591,522, Apr. 1.

Delsman, Quirin C., and K. L. Surfus, assignors to Smalley Manufacturing Company, Manitowoc, Wis. Forage blower with pivoted feed trough. 2,591,411, Apr. 1.

Denis, Jean C., Detroit, Mich., assignor, by mesne assignments, to Buffalo Eclipse Corporation. Liquid level gauge. 2,590,947, Apr. 1.

Dermer, Otis C., and J. J. Hawkins, Stillwater, Okla., assignors to Cities Service Research and Development Company, New York, N. Y. 3-methoxy-4-methoxymethyl tetrahydropyran. 2,591,239, Apr. 1.

Des Moines Glove & Mfg. Company Inc., assignee: *See*— Thompson, Robert E.

Desoutter Brothers Limited, assignee: *See*— Webb, George H.

De Tar, Donald R.: *See*— Lyman, Harold T., and De Tar.

Detroit Edison Company, The, assignee: *See*— Matthews, George A.

Detroit Lubricator Company, assignee: *See*— Millerwise, Carl H.

Devoe & Raynolds Company, Inc., assignee: *See*— Greenlee, Sylvan O.

Dick, Carl W., Bend, Oreg. Hand protector grip. 2,591,523, Apr. 1.

Dicke, Oscar H., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Sustained power electric clock. 2,591,054, Apr. 1.

Dickson, Wesley C., Los Angeles, Calif. Shoeshining or buffing device. 2,591,341, Apr. 1.

Dietert, Harry W., and J. A. Schuch, assignors to Harry W. Dietert Company, Detroit, Mich. Desiccator using an absorbent. 2,591,055, Apr. 1.

Dietert, Harry W., Company, assignee: *See*— Dietert, Harry W., and Schuch.

Dings Magnetic Separator Co., assignee: *See*— Blind, Karl A.

Di Stefano, Albert, Philadelphia, Pa. Paint spray gun. 2,590,848, Apr. 1.

Distillers Company, Limited, The, assignee: *See*— Faulkner, Donald, and Staudinger.

Ditchfield, Frank, assignor to The Youngstown Steel Door Company, Cleveland, Ohio. Laterally movable car door. 2,591,412, Apr. 1.

Ditto, Marvin W., New York, N. Y., and R. H. Hugger, Ridgewood, N. J., assignors to Cordo Chemical Corporation, Norwalk, Conn. Apparatus for producing an embossed coating on sheet materials. 2,591,240, Apr. 1.

Dodge, Adiel Y., Rockford, Ill. Transmission. 2,591,342, Apr. 1.

Doehler-Jarvis Corporation, assignee: *See*— Maier, Herbert N.

Donaldson, William R., assignee: *See*— Van Tuyl, Thomas, and Ackermann.

Dorst, Willem, assignee: *See*— Stephanus, Hendricus, and Rinse.

Double Seal Ring Company, assignee: *See*— Green, William T.

Dougherty, Charles E., New York, N. Y., and E. E. Minor, Baltimore, Md. Overside cargo transporter. 2,591,140, Apr. 1.

Douglas, Alvin P., Cleveland, and L. J. Walters, Shaker Heights, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio. Adjustable brake for tubular frame vehicles. 2,591,524, Apr. 1.

Dow Corning Corporation, assignee: *See*— Clark, Harold A. Goodwin, John T., Jr.

Drechsel, George E. W., Chicago, Ill. Skid chain. 2,591,241, Apr. 1.

Drisch, Nicolas, and P. Herrbach, Paris, France, assignors, by mesne assignments, to Textile and Chemical Research Company Limited, St. Peter Port, Guernsey, Channel Islands. Manufacture of yarns from hydroxylated polyvinyl compounds. 2,591,242, Apr. 1.

Drisch, Nicolas, and R. Brepson, Paris, France, assignors, by mesne assignments, to Textile and Chemical Research Company Limited, St. Peter Port, Guernsey, Channel Islands. Manufacture of rayon from viscose with high elongation and spooling in centrifugal cups. 2,591,243, Apr. 1.

Duckering, Richard: *See*— Gieringer, Carl K., and Duckering.

Dulait, Jean, Brussels, Belgium. Rotary beater mill with cylindrical separator structure adjacent the mill outlet. 2,591,141, Apr. 1.

Du Mais, Leo J., Chicago, H. Bernzott, Niles, and F. J. Prokop, assignors to Da-Lite Screen Company, Inc., Chicago, Ill. Portable screen stand. 2,591,244, Apr. 1.

Dungler, Julien, Basel, Switzerland. Drying fibrous sheet material. 2,590,849, Apr. 1.

Dungler, Julien, Basel, Switzerland. Treating sheet material coated with gelatine. 2,590,850, Apr. 1.

Du Perow, Donald E., St. Clair Shores, assignor to Lincoln Brass Works, Inc., Detroit, Mich. Gas burner and cap for supplying secondary air. 2,590,948, Apr. 1.

Du Pont, E. I., de Nemours & Company, assignee: *See*— Arnold, Herrick R., and Carnahan. Bechtold, Max F., and Stark. Hermann, Carl V.

Dworacek, Felix, New York, N. Y. Bottle closure. 2,590,949, Apr. 1.

Eastman Kodak Company, assignee: *See*— Black, Judd H., and Warren. Weisler, Leonard.

Eckel, John E., assignor to Oil Center Tool Company, Houston, Tex. Wellhead. 2,591,142, Apr. 1.

Eckert, John P., Jr., Gladwyne, and J. W. Mauchly, Ambler, assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa. Signal responsive circuit. 2,590,950, Apr. 1.

Eckert-Mauchly Computer Corporation, assignee: *See*— Eckert, John P., Jr., and Mauchly.

Edwards, Junius D., Oakmont, assignor to Aluminum Company of America, Pittsburgh, Pa. Aluminum paste pigment. 2,591,245, Apr. 1.

Eilersgaard, Asger, Los Angeles, Calif. Clothes-washing machine. 2,591,143, Apr. 1.

Eld, Aksel C., Mount Lebanon, assignor to Gulf Oil Corporation, Pittsburgh, Pa. Tray for fractionating equipment. 2,591,343, Apr. 1.

Electric Storage Battery Co., The, assignee: *See*— Gray, Robin.

Electrolux Corporation, assignee: *See*— Allen, Oliver L. Lofgren, Gustaf E., and Peterson.

Elgin National Watch Company, assignee: *See*— Lester, Raymond H., Cannon, and Alexander.

Eliscovich, Pablo: *See*— Krasnansky, Natalio, Sulik, Eliscovich, and Levy.

Elliott, Harold F., Palo Alto, Calif. Apparatus for positioning rotary controlled elements. 2,591,344, Apr. 1.

Elliott, Harold F., Palo Alto, Calif. Apparatus for positioning a rotary controlled element. 2,591,413, Apr. 1.

Ellis, Greer, Pelham, N. Y. Direct current amplifier with synchronized chopper and rectifier with phase sense. 2,591,345, Apr. 1.

Elmendorf, Armin, Winnetka, Ill. Form for use in making cement-fiber boards. 2,591,414, Apr. 1.

Elsner, Edwin C., assignor to C. J. W. Corporation, North Hollywood, Calif. Quick-release buckle. 2,590,851, Apr. 1.

Emig, Stanley R.: *See*— Lowy, Louis, and Emig.

Emmons Loom Harness Company, assignee: *See*— Leveque, Bernard T.

Empire Ironer, Inc., assignee: *See*— Getgey, John J.

Engel, Willem F., Amsterdam, and P. van 't Spijker, The Hague, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Catalytic desulfurization of hydrocarbon oils. 2,591,525, Apr. 1.

Engelhardt, Rudolf, Leverkusen-Bayerwerk, Germany, and H. Arledter, Hamden, Conn., assignors to Farbenfabriken Bayer, Leverkusen, Germany. Manufacture of aromatic nitriles. 2,591,415, Apr. 1.

Ericson, George R., Kirkwood, assignor to Carter Carburetor Corporation, St. Louis, Mo. Filter. 2,591,056, Apr. 1.

Erikainen, Otto E.: *See*— Coskey, Alexander N., and Erikainen.

Ethyl Corporation, assignee: *See*— Calingaert, George, and Shapiro.

Eveready Briksaw Company, assignee: *See*— Scott, George P.

Everest, Herbert A., and H. C. Jennings, Los Angeles, Calif. Adjustable footrest for wheel chairs and the like. 2,591,246, Apr. 1.

Everlasting Valve Company, assignee: *See*— Harrower, William.

Fairstein, Edward: *See*— Borkowski, Casimer J., and Fairstein.

Fales, Emanuel F., Sr., and K. Holder, Portsmouth, Va. Combination oil collecting and dispensing device. 2,591,526, Apr. 1.

Famely, Max, Linden, N. J. Surface mounted closure remover with cover. 2,591,527, Apr. 1.

Farbenfabriken Bayer, assignee: *See*— Engelhardt, Rudolf, and Arledter.

Farison, Sumner, near Napoleon, Ohio. Elastic cord exerciser. 2,590,951, Apr. 1.

Farnsworth, Hugh D., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Coincidence amplifier. 2,591,247 Apr. 1.

Farr, Clifford G.: *See*— Cleary, Leo P., and Farr.

Farrand Optical Co., Inc., assignee: *See*— Tripp, Kenneth F.

Faulkner, Donald, Cambridge, and J. J. P. Staudinger, Ewell, England, assignors to The Distillers Company, Limited, Edinburgh, Scotland. Plasticized polyvinylidene chloride compositions. 2,590,834, Apr. 1.

Federal Carton Corporation, assignee: *See*— McCormick, Frank.

Federal Manufacturing Co., assignee: *See*— Bodendoerfer, Ray E., Fee, and Frentzel.

Fee, David C.: *See*— Bodendoerfer, Ray E., Fee, and Frentzel.

Fein, Martin L., Riverside, N. J., and C. H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Esters of acylated lactic acid. 2,590,852, Apr. 1.

Feldermann, William, Irvington, N. J. Humidifier structure. 2,591,057, Apr. 1.

Ferguson, Harry, Inc., assignee: *See*— Hunsaker, Harold J., and McCullough. Struthers, Donald K., and Schroeder.

Ferro Engineering Company, The, assignee: *See*— Daussan, Henri J.

Filstrup, Edward C., St. Joseph, assignor to Armstrong Coalbreak Company, Benton Harbor, Mich. Compressed air coal breaker. 2,591,529, Apr. 1.

Filstrup, Edward C., Jr., St. Joseph, assignor to Armstrong Coalbreak Company, Benton Harbor, Mich. Pressure responsive valve. 2,591,528, Apr. 1.

Findley, Howard J.: *See*— Findley, James P. and H. J.

Findley, James P., Chesterland, and H. J. Findley, Chardon, Ohio, assignors, by mesne assignments, of one-half to K. R. Proctor and one-half to D. G. Gill, New York, N. Y. Roller paint applying device. 2,591,530, Apr. 1.

Firth-Vickers Stainless Steels Limited, assignee: *See*— Kirkby, Henry W., and Sykes.

Fishback, Edward W., Orlando, Fla. Pipe coupling. 2,591,531, Apr. 1.

Fisher, Charles H.: *See*— Fein, Martin L., and Fisher.

Fisher, Ivan K.: *See*— Richardson, Arthur B. F. G., Tunnicliff, and Fisher.

Fitzgerald, Albert J., Syracuse, N. Y., assignor to General Electric Company. Grill structure. 2,591,346, Apr. 1.

Fitzgerald, Frank W., Sr., assignee: *See*— Brewster, Albert.

Fleischer-Schmid Corporation, assignee: *See*— Fleischer, William A.

Fleischer, William A., Grand Island, assignor to Fleischer-Schmid Corporation, Columbus, Nebr. Resilient support for tractor seats. 2,591,144, Apr. 1.

Flint, Hyland C., Akron, Ohio. Movably supported spring seat construction. 2,591,347, Apr. 1.

Foley, Lawrence F. G., London, England. Sheathed knife or like implement. 2,591,655, Apr. 1.

Food Engineering Corporation, assignee: *See*—
Brous, Donald W.

Ford Motor Company, assignee: *See*—
Levell, James T.

Foster, Thomas R., North Bay, Ontario, Canada. Clothesline hoist. 2,591,416, Apr. 1.

Foster Wheeler Corporation, assignee: *See*—
Jost, John A., and Vogt.

Foundry Services Limited, assignee: *See*—
Strauss, Kossy, and Boddey.

Foust, Floyd J.: *See*—
Burge, James S., McKee, Rider, Conrad, and Foust.

Fox, Abraham L., Washington, D. C., assignor to Manganese Battery Corporation, Riverdale, Md. Depolarizer for primary cells. 2,591,532, Apr. 1.

Foxboro Company, The, assignee: *See*—
Darling, Horace E.

Francois, Paul L., Short Hills, N. J. Lubricating oil filter mounting. 2,591,248, Apr. 1.

Freeman, Howard E., Sherman Oaks, Calif. Screen and lens calculator. 2,591,058, Apr. 1.

Frentzel, Herman C.: *See*—
Bodendoerfer, Ray E., Fee, and Frentzel.

Fritz, Wilfred J. J., Seattle, Wash., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Oil burner. 2,591,533, Apr. 1.

Frohman, Ernest L., Mount Vernon, N. Y. Replaceable pocket and applying the same. 2,591,059, Apr. 1.

Frye, Jack, Sedona, Ariz. Roll film camera. 2,591,417, Apr. 1.

Fukal, Alfred F., Cambridge, assignor to W. W. Welch, Cincinnati, Ohio. Portable electric fan. 2,590,952, Apr. 1.

Fulton, Charles D., Scotia, N. Y., assignor to General Electric Company. Liquid fuel metering and spraying system. 2,590,853, Apr. 1.

Gaidos, Alonzo F., Redwood City, Calif. Automatic hammer safety for automatic guns. 2,590,854, Apr. 1.

Gallo, John, Sr., assignee: *See*—
Gallo, Michael J., and Gallo.

Gallo, John W., Jr.: *See*—
Gallo, Michael J., and Gallo.

Gallo, Michael J. and J. W., Jr., West Medford, assignors of one-third to J. Gallo, Sr., Boston, Mass. Combination tricycle and bicycle. 2,591,534, Apr. 1.

Gannaway, Robertson R., Oak Park, assignor to Belmont Radio Corporation, Chicago, Ill. Transformerless sawtooth current generator. 2,591,249, Apr. 1.

Garretson, Owen L., Bartlesville, Okla., assignor to Phillips Petroleum Company. Excess flow control valve. 2,591,060, Apr. 1.

Garutso, Stephen E., San Fernando, Calif., assignor, by mesne assignments, to Balanscope, Inc. Balanced optical objective and focusing lens assembly. 2,591,535, Apr. 1.

Garvey, Kenneth A., Tulsa, Okla. Dispensing attachment for collapsible tubes, including a reciprocating piston. 2,591,145, Apr. 1.

Gathman, Evelyn N., Williston, assignor of one-fourth to W. Henrickson, Appam, N. Dak. Pin curler. 2,591,418, Apr. 1.

Gaudreau, Richard J., Longmeadow, assignor to Production Tool & Die Co. Inc., Springfield, Mass. Hydraulic die. 2,591,061, Apr. 1.

Gaylord, James M., San Marino, assignor to Byron Jackson Co., Vernon, Calif. Dynamoelectric machine and cooling means. 2,590,855, Apr. 1.

Gearhart, Roy E., assignor of one-half to C. E. Hose, Kansas City, Mo., and one-half to E. A. Hose, Marietta, Ga. Needle threader. 2,591,146, Apr. 1.

Gendler, Louis, New York, N. Y. Nutcracker. 2,590,953, Apr. 1.

General Aniline & Film Corporation, assignee: *See*—
Harriman, Benjamin R.
Mueller, Fritz W. H.
Slifkin, Sam C., and Beese.
Tulagin, Vsevolod, and Coles.

General Electric Company, assignee: *See*—
Anderson, Robert G.
Bennett, Gardell L.
Buckland, Bruce O., and Howard.
Crankshaw, John H.
Dayton, Carl S.
Fitzgerald, Albert J.
Fulton, Charles D.
Harbison, George C.
Kinman, Thomas H., Hibbard, and Hayward.
Morrill, Weston.
Parker, Rollin J.
Parsons, Robert J.
Reynolds, William W., and Lipsey.
Smith, Archie E.
Swerdlow, Nathan, and Abel.
Walley, James A.
Weiser, Earnest F.
White, William C.

General Mills, Inc., assignee: *See*—
Wittcoff, Harold.
Wittcoff, Harold, and Roach.

General Motors Corporation, assignee: *See*—
Brouwer, Rodger D.
Burge, James S., McKee, Rider, Conrad, and Foust.
Bush, Russell J.
Cobb, Leland D.
Habel, Carl.

General Precision Laboratory Incorporated, assignee: *See*—
Zaleski, John F.

General Time Corporation, assignee: *See*—
Campbell, Arthur B.
Lorenz, Richard L.
West, Albert J.

George, Ramon H., Baltimore, Md. Wheel chock. 2,591,348, Apr. 1.

Gerber, Alfred, Zurich, Switzerland. Sighting device for weapons. 2,590,954, Apr. 1.

Gerber, Dale C., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner with self-retracting electrical cord. 2,591,250, Apr. 1.

Gershen, Irvin J., Hillside, assignor to S. Zaifert, Jersey City, N. J. Eyeglass case. 2,590,955, Apr. 1.

Getgey, John J., assignor to Empire Ironer, Inc., Cincinnati, Ohio. Portable ironer and stand combination. 2,591,656, Apr. 1.

Getgey, John J., assignor to Empire Ironer, Inc., Cincinnati, Ohio. Ironer stand with convertible work tray slidably mounted therein. 2,591,657, Apr. 1.

Gheorghiu, Nicholas D., New York, N. Y. Flashlight with movable varicolored light filter. 2,591,419, Apr. 1.

Gieringer, Carl K., and R. Duckering, assignors to The Liebel-Flarsheim Company, Cincinnati, Ohio. Reciprocating bucky diaphragm. 2,591,536, Apr. 1.

Gilfillan Bros., Incorporated, assignee: *See*—
Kabuss, Norbert G.

Gill, Donald G., assignee: *See*—
Findley, James P., and H. J.

Gille, Benson D., Los Angeles, Calif. Voice and visual recorder. 2,590,956, Apr. 1.

Gillespie, David E., David City, Nebr. Cultivator. 2,591,420, Apr. 1.

Gillett, Lewis L., Endwell, assignor to International Business Machines Corporation, New York, N. Y. Extrusion device and process. 2,591,062, Apr. 1.

Gillette Safety Razor Company, assignee: *See*—
Lind, Carl J.
Muros, Joseph.

Gilman, Louis, Brighton, Mass. Fluorescent lighting fixture with light baffles. 2,591,251, Apr. 1.

Gilson, Warren E., Madison, assignor to The Burdick Corporation, Milton, Wis. Portable hydrotherapy apparatus. 2,591,252, Apr. 1.

Glassman, Jacob A.: *See*—
McNealy, Raymond W., and Glassman.

Goddard, Esther C., executrix: *See*—
Goddard, Robert H.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Combustion chamber jacket with alternate cooling passages of fuel and oxidizer. 2,591,421, Apr. 1.

Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Liquid fuel and oxidizer jacketed combustion chamber with axial conical fuel spreader. 2,591,422, Apr. 1.

Goebel, Joseph P., assignee: *See*—
Goebel, Leo E.

Goebel, Leo E., assignor of one-half to J. P. Goebel, Detroit, Mich. Air-brush holder. 2,591,349, Apr. 1.

Goldberg, Harry, Brooklyn, N. Y. Surgical suture. 2,591,063, Apr. 1.

Goodrich, Ross H., Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa. Dust collector. 2,590,958, Apr. 1.

Goodwin, John T., Jr., assignor to Dow Corning Corporation, Midland, Mich. Organosiloxane resins containing as substituents $(CH_3)_3SiCH_2$— or $(CH_3)_2C_6H_5SiCH_2$—. 2,590,957, Apr. 1.

Gooley, Clarence A., and E. L. Gooley, Harrington, Wash. Rotary tooth cleaner. 2,591,147, Apr. 1.

Gooley, Edward L.: *See*—
Gooley, Clarence A. and E. L.

Gordon, Don, Burbank, assignor to E. M. Stolaroff, Los Angeles, Calif. Lip brush holder with manual release and gravity drop. 2,591,537, Apr. 1.

Gorn, Elmer J., assignor to Raytheon Manufacturing Company, Newton, Mass. Traveling-wave electron reaction device. 2,591,350, Apr. 1.

Gosnell, Hardy B., Slater, S. C. Loom take-up let-back mechanism. 2,591,538, Apr. 1.

Granditer, David, New York, N. Y. Combined writing desk and table. 2,590,959, Apr. 1.

Gray, Calvin B., Wilmington, Del. Note pad and note sheet holder. 2,591,351, Apr. 1.

Gray, Kenneth V., assignor: *See*—
Harris, Walter S.

Gray, Robin, Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Co. Electrolyte level indicator and anti-splash device for electric accumulators. 2,590,960, Apr. 1.

Gray, Tom F., assignee: *See*—
Harris, Walter S.

Green, Donald C., Russell, Ohio. Pressure responsive valve. 2,591,148, Apr. 1.

Green, William T., assignor to Double Seal Ring Company, Fort Worth, Tex. Sealing ring. 2,590,961, Apr. 1.

Greenlee, Sylvan O., Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Resinous compositions. 2,591,539, Apr. 1.

Greenspan, Frank P., Amherst, and D. G. MacKellar, Kenmore, assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y. Stabilization of dilute solutions of aliphatic acids. 2,590,856, Apr. 1.

Grip, Erik K., assignor to Aktiebolaget Atvidaberg-Facit, Atvidaberg, Sweden. Successively operated independent actuator tens transfer mechanism. 2,591,064, Apr. 1.

Grismore, Martin R., Pandora, Ohio. Wheel adjuster. 2,591,253, Apr. 1.

Grolitzer, Beatrice, Los Angeles, Calif. Panty girdle construction. 2,591,423, Apr. 1.

Grove, Clinton, Basking Ridge, N. J., assignor to Central Commercial Company, Cook County, Ill. Coating mineral granules. 2,591,149, Apr. 1.

Grylls, Shadwell H., Duffield, assignor to Rolls-Royce Limited, Derby, England. Vehicle gas turbine free wheel overdrive. 2,591,540, Apr. 1.

Guernsey, Glen A.: *See*—
Harmon, Kenneth A., and Guernsey.

Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.

Gulden, Ernest V., and J. A. Klopf, assignors to The National Cash Register Company, Dayton, Ohio. Electronic accumulator. 2,591,541, Apr. 1.

Gulf Oil Corporation, assignee: *See*—
Eld, Aksel C.

Gulf Research & Development Company, assignee: *See*—
Mitchell, Edward.
Stevens, Donald R., and Bowman.

Gullett, John C.: *See*—
Littlejohn, Lyman L., and Gullett.

Gumpp, Fredrick W., Massillon, assignor of twenty-five per cent to J. W. Kinney, Jr., Cincinnati, Ohio. Furnace charging device. 2,591,424, Apr. 1.

Gurton, William S., and H. Nyberg, Kitchener, assignors, by mesne assignments, to Brantford Coach and Body Limited, Brantford, Ontario, Canada. Detachable dolly and trailer. 2,590,962, Apr. 1.

Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. Tiltable display carton. 2,591,425, Apr. 1.

Habel, Carl, Warren, Ohio, assignor to General Motors Corporation, Detroit, Mich. Soldering apparatus. 2,591,065, Apr. 1.

Hackmann, Johannes T., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Producing rubber polymer-sulfur dioxide filaments. 2,591,254, Apr. 1.

Hadley, Earl D., Edwardsville, Kans. Divided car seat. 2,591,426, Apr. 1.

Haines, Sidney R., West Norwood, assignor to Powers-Samas Accounting Machines Limited, London, England. Paper feeding mechanism for statistical machines. 2,591,150, Apr. 1.

Halvorson, H. Orin, St. Paul, Minn. Treating sewage. 2,590,964, Apr. 1.

Hammel, Clifford M.: *See*—
Carter, Elbert P., and Hammel.

Hand, James W., Jr.: *See*—
Moody, Leonard E., and Hand.

Hannay, Clifford B., & Son, Inc., assignee: *See*—
Hannay, Richard.

Hannay, Richard, assignor to Clifford Hannay & Son, Inc., Westerlo, N. Y. Hose reel construction. 2,590,963, Apr. 1.

Hansen, James P., and F. A. Wilmot, Los Angeles, Calif. Vacuum type food container. 2,591,151, Apr. 1.

Hansman, John F., and M. J. Jurisch, Chicago, Ill.; said Hansman assignor to said Jurisch. Photographic carbon tissue. 2,590,857, Apr. 1.

Hanson, Maynard P.: *See*—
Westby, Walter P., and Hanson.

Harbison, George C., Erie, Pa., assignor to General Electric Company. Adjustable door brace construction. 2,591,352, Apr. 1.

Hård of Segerstad, Carl G., and J. Magnusson, Sandviken, assignors to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden. Apparatus for measuring high pressures. 2,591,255, Apr. 1.

Haringhuizen, Pieter J., Geleen, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands. Process and apparatus for the separation of coke-oven gas. 2,591,658, Apr. 1.

Harkey, Harold, Kirksville, Mo. Hose attachment. 2,591,427, Apr. 1.

Harmon, Kenneth A., Longmeadow, and G. A. Guernsey, assignors to Wico Electric Company, West Springfield, Mass. Electrical switch. 2,591,353, Apr. 1.

Harriman, Benjamin R., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Hardened photographic film of improved photographic properties. 2,591,542, Apr. 1.

Harris, McLean H., and R. E. McKee, Stockton, Calif. Selective color display projection apparatus. 2,591,428, Apr. 1.

Harris, Walter S., Wilmslow, assignor of one-quarter to E. Griffiths Hughes Limited, Adelphi, one-quarter to T. F. Gray and one-quarter to K. V. Gray, Kersal, Salford, England. Holding and extruding paste and liquid materials. 2,591,354, Apr. 1.

Harrower, William, assignor to Everlasting Valve Company, Jersey City, N. J. Valve. 2,591,429, Apr. 1.

Hart, John, Peterborough, England, assignor to Baker Perkins Incorporated, Saginaw, Mich. Biscuit cutting machine and the like. 2,591,256, Apr. 1.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
De Gier, Johannes.
Janssen, Peter J. H.
Strutt, Maximiliaan J. O., van der Ziel, and Knol.

Hartman, David E., Toronto, Ontario, Canada. Sliding support mechanism. 2,591,066, Apr. 1.

Harvey, Earle M., Agawam, Mass., assignor to the United States of America as represented by the Secretary of War. Rotatable trigger guard for firearms. 2,590,858, Apr. 1.

Harvey, Herbert: *See*—
Thompson, Robert H., and Harvey.

Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.

Hawkins, John J.: *See*—
Dermer, Otis C., and Hawkins.

Hawkinson, Earle W., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Tire retreading mold. 2,591,430, Apr. 1.

Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Earle W.

Hayward, Cyril: *See*—
Kinman, Thomas H., Hibberd, and Hayward.

Haywood, Frederick W., and D. S. Laidler, assignors of one-half to Wild-Barfield Electric Furnaces Limited, Watford, England. Catalytic treatment of industrial gases. 2,591,543, Apr. 1.

Hazeltine, Alan, Maplewood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Phase modulator. 2,590,969, Apr. 1.

Hazeltine Research, Inc., assignee: *See*—
Wheeler, Harold A.

Hegarty, John J., Medford, Mass. Stacking truck. 2,591,544, Apr. 1.

Heller Brothers Company, assignee: *See*—
Heller, Eugene P.

Heller, Eugene P., Madison, assignor to Heller Brothers Company, Newark, N. J. Scraping tool. 2,590,966, Apr. 1.

Hendrich, Henry A.: *See*—
Johnson, Reynold, Hendrich, and Malmros.

Henggeler, Wilfred A., Columbus, Nebr. Hydraulic hayfork. 2,591,431, Apr. 1.

Henrickson, William, assignee: *See*—
Gathman, Evelyn N.

Hepperle, Erwin: *See*—
Lippert, Hanns, and Hepperle.

Hepworth, Walter, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Di-quaternary salts of pyrimidylaminoquinolines. 2,591,545, Apr. 1.

Héraud, André, Saint Ouen, assignor to Societe Anonyme dite: Societe des Piles Wonder, Saint-Ouen (Siene), France. Electric battery composed of flat elements. 2,591,355, Apr. 1.

Hercules Powder Company, assignee: *See*—
Lamborn, Bayard T.

Herrbach, Paul: *See*—
Drisch, Nicolas, and Herrbach.

Herrmann, Carl V., Highland, Ind., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process for production of leaded ammonium chloride crystals. 2,591,067, Apr. 1.

Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Stabilization of frequency-modulated oscillators. 2,591,257, Apr. 1.

Hershberger, William D., Princeton, N. J., assignor to Radio Corporation of America. Frequency stabilization by molecularly resonant gases. 2,591,258, Apr. 1.

Hess, Frederic O., assignor to Selas Corporation of America, Philadelphia, Pa. Billet heating furnace. 2,591,259, Apr. 1.

Hettinger, Charles, West Englewood, N. J. Machine for making coffee rings. 2,591,546, Apr. 1.

Hewett, Oscar C., Fort Worth, Tex. Switch actuator for model railroads. 2,591,152, Apr. 1.

Hewton, William R.: *See*—
Keen, William R., and Hewton.

Heywood-Wakefield Company, assignee: *See*—
Owler, Robert N.

Hibberd, Robert G.: *See*—
Kinman, Thomas H., Hibberd, and Hayward.

Hickman, Albert F., assignor to Hickman Industries, Inc., Eden, N. Y. Resilient seat suspension. 2,590,859, Apr. 1.

Hickman Industries, Inc., assignee: *See*—
Hickman, Albert F.

Hicks, Russell S., executor: *See*—
Julius, Awdry F. and G. A.

High-Pressure Components Limited, assignee: *See*—
Williams, John C.

Hilchey, Eugene L., Los Angeles, Calif. Studio background. 2,591,008, Apr. 1.
Hill, Hardin F., Columbia, Tenn., assignor to International Minerals & Chemical Corporation. Feeder for solid materials. 2,590,968, Apr. 1.
Hill, Rutherford B., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanization of rubber. 2,591,547, Apr. 1.
Hill, Stanley E.: *See*—
Anderson, Floyd W., and Hill.
Hobbs, Edward W., Rickmansworth, England. Spring-driven motor. 2,591,260, Apr. 1.
Hockery, John C., assignee: *See*—
McLean, Robert E.
Hodge, Edwin T., Portland, Oreg. Continuously digesting and drying flax straw. 2,591,069, Apr. 1.
Hodges Research and Development Company, assignee: *See*—
Hodges, William C.
Latham, Allen, Jr., and Swanton.
McAdam, Harry H.
Hodges, William C., Redwood City, assignor to Hodges Research and Development Company, San Francisco, Calif. Shifting bolster transfer mechanism. 2,591,153, Apr. 1.
Hoebeke, Robert, Medford, Mass. Removable pipe plug. 2,590,860, Apr. 1.
Hoerner, Eric, Dayton, Ohio. Drain. 2,591,432, Apr. 1.
Hoffmann-La Roche Inc.: *See*—
Cohen, Aaron.
Hoffmaster, George R., Esterly, assignor to Willson Products, Inc., Reading, Pa. Making a temple for ophthalmic mountings. 2,591,154, Apr. 1.
Hohwart, Ernest F.: *See*—
Hohwart, George and E. F.
Hohwart, George and E. F., Detroit, assignors to N. A. Woodworth Company, Ferndale, Mich. Adjustable thread ring gauge. 2,591,433, Apr. 1.
Holahan, Robert E., Rochester, N. Y. Confection mold. 2,591,201, Apr. 1.
Holder, Kenneth: *See*—
Fales, Emanuel F., Sr., and Holder.
Honnoré, Michel A. J., and P. M. F. Zens, Paris, France. Gear shifting in high-power manifold units. 2,590,861, Apr. 1.
Hoover Company, The, assignee: *See*—
Gerber, Dale C.
Humphrey, Warren A.
Segesman, Louis E.
Hoppert, Filser D., East Longmeadow, Mass. Adjustable trigger mechanism. 2,590,862, Apr. 1.
Horix Manufacturing Company, assignee: *See*—
Huggins, Leroy G., and Bulcao.
Horning, Harold R.: *See*—
Bohannan, Robert C., Pickard, and Horning.
Horstmann, Herbert H., Alton, Ill. Can opener attachment. 2,591,155, Apr. 1.
Hose, Charles E., assignee: *See*—
Gearhart, Roy E.
Hose, Earl A., assignee: *See*—
Gearhart, Roy E.
Howard, Alan: *See*—
Buckland, Bruce O., and Howard.
Howe, William L., Jr., Chesterfield, Mo. Carbureting mechanism. 2,591,356, Apr. 1.
Howell, Hugh A., Valparaiso, Ind., assignor to The Indiana Steel Products Company, Chicago, Ill. Combined magnetic transducer head and output transformer. 2,591,070, Apr. 1.
Hrankowski, Michael, Plainfield, N. J. Dressing device for grinding wheels. 2,591,434, Apr. 1.
Huber, William J., Detroit, assignor to M. A. Bolton, Berkley, Mich. Venturi intake valve. 2,591,156, Apr. 1.
Hugger, Richard H.: *See*—
Ditto, Marvin W., and Hugger.
Huggins, Leroy G., Glen Ridge, N. J., and W. H. Bulcao, assignors to Horix Manufacturing Company, Pittsburgh, Pa. Apparatus for filling liquid containers having vertically adjustable tank and constant level valves. 2,591,071, Apr. 1.
Hughes, E. Griffiths, Limited, assignee: *See*—
Harris, Walter S.
Hughes, Zach A., New Caney, Tex. Barbecue pit. 2,591,072, Apr. 1.
Huguenin, Marc, Geneva, Switzerland, assignor to Montres Rolex S. A. (Rolex Watch Co. Ltd.) Dial retainer for calendar timepieces. 2,590,967, Apr. 1.
Humphrey, Warren A., Canton, assignor to The Hoover Company, North Canton, Ohio. Adjustable brush in a suction cleaning tool. 2,591,262, Apr. 1.
Hunsaker, Harold J., Dallas, Tex., and D. C. McCullough, assignors to Harry Ferguson, Inc., Dearborn, Mich. Tractor hoist. 2,591,435, Apr. 1.
Huston, Charles E., San Marino, Calif. Collapsible vegetable packing apparatus. 2,590,965, Apr. 1.
Hutchins, Harry P., Audubon, N. J. Oscillatable baseball game board. 2,591,357, Apr. 1.
Hutchinson, Harold D., Gardena, Calif. Method and apparatus for producing vapor trails. 2,591,157, Apr. 1.
Hydropress, Incorporated, assignee: *See*—
Bertrand, Joseph V.
Hyman, Henry, assignee: *See*—
Zwierzynski, Alex.
Imler, Donald T., Gettysburg, Pa., assignor to The Glenn L. Martin Company, Middle River, Md. Thermocouple bridge. 2,591,358, Apr. 1.
Imperial Chemical Industries Limited, assignee: *See*—
Hepworth, Walter.
Imset, Otto, assignee: *See*—
Stephansen, Erik.
Indiana Steel Products Company, The, assignee: *See*—
Howell, Hugh A.
Inman, William H., assignor to Bloomer Bros. Company, Newark, N. Y. Cellular cushioned container. 2,591,548, Apr. 1.
Innovations, Inc., assignee: *See*—
Boadway, Odber E.
International Business Machines Corporation, assignee: *See*—
Dickie, Oscar H.
Gillett, Lewis L.
Johnson, Reynold B., Hendrich, and Malmros.
Whiting, Bradford C.
International Minerals & Chemical Corporation, assignee: *See*—
Hill, Hardin F.
Internationella Siporex Aktiebolaget, assignee: *See*—
Simonsson, Hans L., and Ulfstedt.
Iron Fireman Manufacturing Company, assignee: *See*—
Fritz, Wilfred J. J.
Jackson, Byron, Co., assignee: *See*—
Gaylord, James M.
Jackson, Donald R. P.: *See*—
Chalmers, John W., and Jackson.
Jacobs, Harold, and J. R. Martin, Long Branch, N. J., assignors to the United States of America as represented by the Secretary of Army. Cold cathode gas tube amplifier. 2,590,863, Apr. 1.
Jaeger Machine Company, The, assignee: *See*—
Bohannan, Robert C., Pickard, and Horning.
James, Richard E., Pasadena, and A. J. Lampert, Walnut, assignors to Rheem Manufacturing Company, Richmond, Calif. Grid gas burner. 2,591,263, Apr. 1.
James, William A., Arvida, assignor to Aluminium Laboratories Limited, Montreal, Quebec, Canada. Production of alumina values. 2,591,436, Apr. 1.
Jamestown Steel Partitions, Inc., assignee: *See*—
Lundine, Gustav E.
Janssen, Peter J. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Television receiver. 2,591,264, Apr. 1.
Jefferson Standard Broadcasting Company, assignee: *See*—
Tribble, William H.
Jeffrey Manufacturing Company, The, assignee: *See*—
Knight, Lloyd K.
Moon, Sterling C.
Jeffrey, Montroy, Philadelphia, assignor to Textile Machine Works, Wyomissing, Pa. Full-fashioned knitting machine. 2,591,659, Apr. 1.
Jelinek, Jerry J., Milwaukee, Wis. Wire bending and clenching tool for hose clamps. 2,591,158, Apr. 1.
Jennings, Harry C.: *See*—
Everest, Herbert A., and Jennings.
Jensen, Aage, Kenosha, Wis. Vehicle jack. 2,590,970, Apr. 1.
Jepson, Ivar, Oak Park, assignor to Sunbeam Corporation, Chicago, Ill. Sprinkler. 2,591,073, Apr. 1.
Joa, Curt G., Sheboygan Falls, Wis. Cellulose pad machine. 2,591,359, Apr. 1.
Johner, Hans: *See*—
Schmid, Max, Danuser, Johner, Moser, and Wuergler.
Johns, Henry S. and W. H., Cleveland Heights, Ohio. Bowling alley sweeper mechanism. 2,591,265, Apr. 1.
Johns, William H.: *See*—
Johns, Henry S. and W. H.
Johnson, Edwin A., Washington, D. C. High-frequency radio apparatus. 2,590,864, Apr. 1.
Johnson, Herbert L., Media, Pa., and F. J. Bondhus, Oskaloosa, Iowa, assignors to Sun Oil Company, Philadelphia, Pa. Hydrogenated vinylcyclohexene-dimer. 2,590,971, Apr. 1.
Johnson, Horace J., Grosse Pointe, Mich., assignor, by mesne assignments, to Buffalo-Eclipse Corporation. Liquid level gauge attachment. 2,591,075, Apr. 1.
Johnson Power-On Transmission Corporation, assignee: *See*—
Kraft, Selmer A., and Beaurline.
Johnson, Reynold B., Binghamton, H. A. Hendrich, Endicott, and G. V. A. Malmros, Binghamton, assignors to International Business Machines Corporation, New York, N. Y. Hyperbolic position locating device. 2,591,074, Apr. 1.
Johnson, Walter L., Kimball, S. Dak. Liquid fuel feeding system. 2,590,972, Apr. 1.
Johnson, Warren C., Lancaster Township, Lancaster County, assignor to Armstrong Cork Company, Lancaster, Pa. Remnant roll housing and lift. 2,590,865, Apr. 1.
Johnston, Clyde C., Jr., assignee: *See*—
Millican, Roy E.

Jonker, Frits, Delft, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Rotating continuous combustion type combustion products generator and reaction turbine. 2,591,549, Apr. 1.
Jordan, Robert L., Garland, Tex. Overvoltage responsive control circuits. 2,590,973, Apr. 1.
Jost, John A., Westfield, and E. Vogt, Elizabeth, N. J., assignors to Foster Wheeler Corporation, New York, N. Y. Heat exchange apparatus. 2,590,866, Apr. 1.
Jourgensen, John L., assignee: *See*—
Miller, Dorothy L. and S. A.
Jourgensen, Sally, assignee: *See*—
Miller, Dorothy L. and S. A.
Joy Manufacturing Company, assignee: *See*—
Goodrich, Ross H.
Sullinger, Francis E.
Julius, Awdry F., and G. A. Julius, deceased, Sydney, New South Wales, Australia, by E. D. O. Julius, Killara, near Sydney, New South Wales, and A. F. Julius and R. S. Hicks, executors, assignors to Automatic Totalisators Limited, Sydney, New South Wales, Australia. Odds ratio relay unit for race totalizators. 2,590,974, Apr. 1.
Julius, Eva D. O., executrix: *See*—
Julius, Awdry F. and G. A.
Julius, George A.: *See*—
Julius, Awdry F. and G. A.
Jun, Erik H., Bagn, Norway. Coupling device for electric cables. 2,591,437, Apr. 1.
Jurisch, Melvin J.: *See*—
Hansman, John F., and Jurisch.
Juy, Lucien, Dijon, France. Change-speed gear for cycles and the like. 2,590,975, Apr. 1.
Kabuss, Norbert G., Monterey Park, assignor to Gilfillan Bros., Incorporated, Los Angeles, Calif. Magnetic means for producing compensations and other effects in a cathode-ray tube. 2,591,159, Apr. 1.
Kalitinsky, Andrew, Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn. Splitter vane construction for gas valves. 2,590,976, Apr. 1.
Kallmann, Hartmut P., Bellaire, N. Y., assignor to the United States of America as represented by the Secretary of the Army. Noise reducer in scintillation counting. 2,590,867, Apr. 1.
Kane, John T., St. Paul, Minn., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand handling tool. 2,591,550, Apr. 1.
Kaplan, Sydney, Trenton, N. J. Folding cot. 2,591,551, Apr. 1.
Kawneer Company, The, assignee: *See*—
Knott, Kenneth E.
Kay, Gordon E., Tucson, Ariz. Finger held double-faced shoe wax applicator and polisher. 2,590,977, Apr. 1.
Kayler, Frank H., Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill. Coupler bearing block assembly. 2,590,868, Apr. 1.
Keef, Leard M., De Land, assignor to P. J. Stine, Orlando, Fla. Lathe attachment. 2,591,552, Apr. 1.
Keeling, William O., assignor to Koppers Company, Inc., Pittsburgh, Pa. Manufacture of gas. 2,590,869, Apr. 1.
Keen, William R., Media, and W. R. Hewton, assignors to Collins & Aikman Corporation, Philadelphia, Pa. Method of and apparatus for recovering temporary loop-sustaining filling weft from loop pile fabrics. 2,591,166, Apr. 1.
Keenan, Joseph D., Chicago, Ill. Handle means for simultaneous operation of double-ended pliers. 2,591,360, Apr. 1.
Keese, Beverly W., Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Lubricating means for power transmitting mechanism. 2,590,870, Apr. 1.
Kellogg Switchboard and Supply Company, assignee: *See*—
Boyer, Richard P., Jr., and Bellamy.
Kemp, Clayton, Merchantville, assignor to Kieckhefer Container Company, Camden, N. J. Folding device. 2,591,553, Apr. 1.
Kemper, Harry C.: *See*—
LeBlond, Richard K., and Kemper.
Kendall, Edward C.: *See*—
McGuckin, Warren F., and Kendall.
Kendall, Edward C., and V. R. Mattox, Rochester, Minn., assignors to Research Corporation, New York, N. Y. Introduction of a double bond adjacent a keto group in ketosteroids. 2,590,978, Apr. 1.
Keyes Fibre Company, assignee: *See*—
Schwertfeger, Walter J.
Kieckhefer Container Company, assignee: *See*—
Kemp, Clayton.
Kilbourn Engineering Company, assignee: *See*—
Straty, Stephen.
Kilian, Rudolph R., Baldwinsville, assignor to Rollway Bearing Company, Inc., Syracuse, N. Y. Roller bearing and manufacture thereof. 2,591,160, Apr. 1.
Kilian, Rudolph R., Baldwinsville, assignor to Rollway Bearing Company, Inc., Syracuse, N. Y. Retainer for roller bearings. 2,591,161, Apr. 1.
King, Laurence F.: *See*—
Sproule, Lorne W., and King.
Kinman, Thomas H., R. G. Hibberd, and C. Hayward, Rugby, England, assignors to General Electric Company. Portable radio receiver. 2,591,438, Apr. 1.
Kinney, Everett F., Cambria, and H. E. Myers, Milwaukee, Wis. Mechanical wild fowl decoy. 2,591,554, Apr. 1.
Kinney, J. Warren, Jr., assignee: *See*—
Gumpp, Frederick W.
Kinsella, John: *See*—
Cowdrey, Cecil L., and Kinsella.
Kircher, Paul J., Plainville, N. J., assignor to Landers, Frary & Clark, New Britain, Conn. Fruit juicer. 2,591,162, Apr. 1.
Kirkby, Henry W., and C. Sykes, assignors, by mesne assignments, to Firth-Vickers Stainless Steels Limited, Sheffield, England. Alloy steels. 2,590,835, Apr. 1.
Kivett, Jerome S., Kansas City, Mo. Padding attachment for garment hangers. 2,591,163, Apr. 1.
Klein, Markus, Pittsburgh, Pa. Removable shoulder rest for violins. 2,591,164, Apr. 1.
Kleinman, Jacob L., New York, N. Y. Shaving implement. 2,590,871, Apr. 1.
Klopf, James A.: *See*—
Gulden, Ernest V., and Klopf.
Klopf, James A., assignor to The National Cash Register Company, Dayton, Ohio. Indicator. 2,591,555, Apr. 1.
Knight, Lloyd K., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Grinder, including means preventing the entrance of material between the rotor and housing thereof. 2,591,076, Apr. 1.
Knol, Kornelis S.: *See*—
Strutt, Maximiliaan J. O., van der Ziel, and Knol.
Knott, Kenneth E., assignor to The Kawneer Company, Niles, Mich. Attaching clip for wall surfacing. 2,591,361, Apr. 1.
Knutson, Reuben, Zumbrota, Minn. Automatic vehicle unloader. 2,591,556, Apr. 1.
Koch, Roderic M., Evansville, Ind. Flowerpot stand. 2,591,362, Apr. 1.
Koch, Roderic M., Evansville, Ind. Sheet-metal receptacle forming machine. 2,591,439, Apr. 1.
Koepfli, Joseph B.: *See*—
Campbell, Dan H., Koepfli, and Pauling.
Kogbetliantz, Ervand G., New York, N. Y. System for measuring magnetic fields. 2,590,979, Apr. 1.
Kollsman, Paul, New York, N. Y. Carbonating apparatus. 2,591,440, Apr. 1.
Kollsman, Paul, New York, N. Y. Pressure energy exchanger. 2,591,441, Apr. 1.
Koppers Company, Inc., assignee: *See*—
Keeling, William O.
Korndorffer, Rudolf W. v. H.: *See*—
Taat, Willem J., and Korndorffer.
Kraay, Robert A., Chicago, and E. W. Larsen, Elmhurst, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for dipping articles in liquid. 2,591,557, Apr. 1.
Kraft, Selmer A., St. Paul, Minn., and A. W. Beaurline, River Forest, assignors to Johnson Power-On Transmission Corporation, Chicago, Ill. Hydraulic transmission. 2,591,363, Apr. 1.
Kraft, Wheaton W., Scarsdale, assignor to The Lummus Company, New York, N. Y. Method and apparatus for clay treating oil. 2,590,872, Apr. 1.
Kramer, Earnest H., Tulsa, Okla. Fishing line float. 2,591,558, Apr. 1.
Krasnansky, Natalio, M. Sulik, P. Eliscovich, and J. Levy, Buenos Aires, Argentina. Device for nullifying combination locks. 2,591,165, Apr. 1.
Krasnow, Shelley, New York, N. Y., and L. F. Curtiss, Montgomery County, Md., assignors, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex. Method and apparatus for measuring radioactivity. 2,590,873, Apr. 1.
Krasnow, Shelley, Arlington County, Va., and L. F. Curtiss, Montgomery County, Md., assignors to Schlumberger Well Surveying Corporation, Houston, Tex. Multiple element radioactive ray recording. 2,590,874, Apr. 1.
Krueger, Theodore H., Stratford, Conn., assignor to Better Packages Incorporated. Dispenser for pressure sensitive tape. 2,591,559, Apr. 1.
Kuchel, Joe, Arlington, Va. Bottle crate and liner therefor. 2,591,266, Apr. 1.
Kuhn, George F., Sinclair, Wyo., assignor to Sinclair Refining Company, New York, N. Y. Apparatus for the catalytic conversion of hydrocarbons. 2,590,980, Apr. 1.
Kurth, Matthew G., Madison, Wis. Mixing nozzle. 2,591,364, Apr. 1.
Lacy-Hulbert, Cyril, and A. V. Barton, assignors to Simplex Electric Company, Limited, Oldbury, England. Making electric heating elements. 2,591,442, Apr. 1.
Lacy, Roy, Los Angeles, J. D. Rossier, Compton, and C. V. McClintock, deceased, by H. C. McClintock, executrix, Los Nietos, assignors to Pacific Clay Products, Los Angeles, Calif. Machine for forming clay pipes with bell-shaped ends. 2,591,267, Apr. 1.
Laidler, Douglas S.: *See*—
Haywood, Frederick W., and Laidler.
Lambert, Lee L.: *See*—
Manilych, Samuel, and Lambert.

Lamborn, Bayard T., Matawan, N. J., assignor to Hercules Powder Company, Wilmington, Del. Producing a thermoplastic cellulose acetate composition. 2,591,077, Apr. 1.

Lampert, Albert J.: *See*—
James, Richard E., and Lampert.

Lancor, Joseph H., Jr., East Williston, N. Y., assignor to The Sperry Corporation. Regenerative tracking apparatus. 2,590,875, Apr. 1.

Landauer, Fred, Rockville Centre, N. Y. Electrode for electrotherapeutic treatments. 2,590,876, Apr. 1.

Landers, Frary & Clark, assignee: *See*—
Kircher, Paul J.

Langmaid, Alvin E., Bloomfield, and R. A. Bloom, Hartford, Conn. Lapping thread ring gauge. 2,591,167, Apr. 1.

Larsen, Elner W.: *See*—
Kraay, Robert A., and Larsen.

Larson, Glen M., and H. B. Lewis, Los Angeles, Calif. Device for determining capillary fragility. 2,591,443, Apr. 1.

Latham, Allen, Jr., Jamaica Plain, and J. R. Swanton, Jr., Newton, Mass., assignors, by mesne assignments, to Hodges Research and Development Company, San Francisco, Calif. Apparatus for refrigerating enclosures. 2,591,168, Apr. 1.

Lavoie, Alfred, Roberval, Quebec, Canada. Insulation slitting tool. 2,591,560, Apr. 1.

Lazan, Benjamin J., Syracuse, N. Y., assignor, by mesne assignments, to Baldwin-Lima-Hamilton Corporation. Fatigue testing machine. 2,591,444, Apr. 1.

Lazrus, Benjamin, assignor to Benrus Watch Company, Inc., New York, N. Y. Wrist watch and bracelet. 2,591,078, Apr. 1.

Leaton, Mary R., Kansas City, Mo. Diaper pants. 2,591,079, Apr. 1.

Le Blond, R. K., Machine Tool Company, The, assignee: *See*—
Le Blond, Richard K., and Kemper.

Le Blond, Richard K., Cincinnati, and H. C. Kemper, Goshen Township, Clermont County, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio. Milling machine transmission control mechanism. 2,591,268, Apr. 1.

Lehman, Roger, Orange, N. J. Starter for internal-combustion engines. 2,591,445, Apr. 1.

Lehoczki, Frank, United States Army. Signaling wand for flashlights. 2,591,269, Apr. 1.

Lennon, James W., St. Paul, Minn., assignor, by mesne assignments, to Shellmar Products Corporation, Chicago, Ill. Egg carton. 2,591,446, Apr. 1.

Lester, Raymond H., M. C. Cannon, and F. C. Alexander, Jr., Pittsburgh, Pa., assignors to Elgin National Watch Company, Elgin, Ill. Apparatus for producing refractory rods. 2,591,561, Apr. 1.

Levell, James T., Detroit, assignor to Ford Motor Company, Dearborn, Mich. Vehicle radiator cap. 2,591,562, Apr. 1.

Levêque, Bernard T., Wenham, assignor to Emmons Loom Harness Company, Lawrence, Mass. Loom harness with slidable heddle bar support. 2,591,563, Apr. 1.

Levereth, Anthony, Belleville, N. J. Safety lockbox. 2,591,270, Apr. 1.

Levereth, Anthony, Belleville, N. J. Safety lockbox. 2,591,271, Apr. 1.

Levine, John, Brooklyn, N. Y. Clothespin holder. 2,591,169, Apr. 1.

Levinson, Louis J., and A. Shebel, New York, N. Y. Collapsible display device. 2,591,170, Apr. 1.

Levy, Juan: *See*—
Krasñansky, Natalio, Sulik, Eliscovich, and Levy.

Lewis, Howard B.: *See*—
Larson, Glen M., and Lewis.

Liebel-Flarsheim Company, The, assignee: *See*—
Gieringer, Carl K., and Duckering.

Liesener, Delwyn, Jackson, Wis. Elevated carriage for vacuum cleaners. 2,591,365, Apr. 1.

Lincoln Brass Works, Inc., assignee: *See*—
Du Perow, Donald W.

Lincoln, Joseph, Manufacturing Company, Inc., The, assignee: *See*—
Weikert, Roy J.

Lind, Carl J., Skokie, Ill., assignor to Gillette Safety Razor Company, Boston, Mass. Molding and assembling method and apparatus. 2,591,564, Apr. 1.

Lindberg, Carl A., Toledo, Ohio. Electric fan. 2,590,877, Apr. 1.

Lindley, Frederick A., Flushing, N. Y., and F. M. Arbuckle, Allenhurst, N. J., assignors to Radio-Television Institute, Inc., New York, N. Y. Stabilized electrical synchronizing system. 2,591,660, Apr. 1.

Link-Belt Company, assignee: *See*—
Musschoot, Albert.

Link, Edwin A.: *See*—
Nelson, Rolland D., and Link.

Linnard, Irvin R., Montclair, N. J. Manufacture of novel clay articles. 2,591,565, Apr. 1.

Lippert, Hanns, and E. Hepperle, Zurich, assignors to Machine Tool Works Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland. Pivoted breech closure and lock member. 2,590,981, Apr. 1.

Lipsey, Goldner F.: *See*—
Reynolds, William W., and Lipsey.

Littlejohn, Lyman L., Glendale, and J. C. Gullett, Arbuckle, Calif. Water injecting system for internal-combustion engines. 2,591,272, Apr. 1.

Livingston, Cyril W., New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa. Stocking and producing same. 2,591,566, Apr. 1.

Loeb, Lawrence A., New Haven, Conn. Dishwashing machine. 2,591,080, Apr. 1.

Lofgren, Gustaf E., Wesskum Wood, Riverside, and A. Peterson, Stamford, assignors to Electrolux Corporation, Old Greenwich, Conn. Vacuum cleaner. , 2,591,567, Apr. 1.

Lohse, Elmer H., East Moline, Ill. Brake operated by steering means. 2,591,171, Apr. 1.

Long, Alfred B., Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa. Well logging apparatus. 2,590,982, Apr. 1.

Loomis, Fred H., Woodhaven, N. Y. Sewing-machine thread cutter. 2,591,447, Apr. 1.

Lorenz, Richard L., Chicago, Ill., assignor to General Time Corporation, New York, N. Y. Elapsed time recorder. 2,591,448, Apr. 1.

Lorenz, Wallace J., Arlington, Calif. Making wash mitts. 2,590,983, Apr. 1.

Lorenzen, Roy A., Chicago, Ill. Punch plug receptacle for hand punches. 2,590,984, Apr. 1.

Lorimer, James H., Toronto, Ontario, Canada. Machine for cutting ties or the like. 2,591,568, Apr. 1.

Lovell, Edwin M., Topeka, Kans. Ring setting. 2,591,569, Apr. 1.

Lowen, Herbert: *See*—
Back, Frank G., and Lowen.

Lowy, Louis, and S. R. Emig, Detroit, Mich. Mechanism for finishing cylindrical surfaces. 2,591,273, Apr. 1.

Ludwig, Frederic G., New Haven, Conn. Contact printing apparatus. 2,591,449, Apr. 1.

Luebbert, Henry C., Cleveland, Ohio. Apparatus for setting pins. 2,591,450, Apr. 1.

Lummus Company, The, assignee: *See*—
Kraft, Wheaton W.
Rollins, Jennings F., and Brooks.

Lundine, Gustav E., Jamestown, assignor to Jamestown Steel Partitions, Inc., Falconer, N. Y. Cabinet. 2,591,172, Apr. 1.

Lyman, Harold T., Milford, and D. R. De Tar, Stratford, Conn., assignor to Aladdin Industries, Incorporated, Chicago, Ill. Radio-frequency transformer. 2,591,081, Apr. 1.

Lynch, Harold F., and J. F. Smith, Phoenix, Ariz. Device for removing restorations from teeth. 2,591,451, Apr. 1.

Lynch, Lora H., Chicago, Ill. Home hospital unit for poliomyelitis victims and invalids. 2,591,082, Apr. 1.

Lyon, Waldo K., and R. M. Sherwood, San Diego, Calif. Sono-optical recorder for antisubmarine attack training. 2,590,878, Apr. 1.

Maag, Max, Zurich, Switzerland. Internal dimension gauge. 2,591,452, Apr. 1.

Maag, Max, Zurich, Switzerland. External caliper with demountable frame. 2,591,453, Apr. 1.

MacGregor, Joseph, Whitley Bay, England. Ship's hatch cover. 2,590,985, Apr. 1.

Machine Tool Works Oerlikon, Administration Company, assignee: *See*—
Lippert, Hanns, and Hepperle.

MacKellar, Donald G.: *See*—
Greenspan, Frank P., and MacKellar.

MacLean, Alexander F., Robstown, and D. E. Pickart, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y. Production of aliphatic nitriles. 2,590,986, Apr. 1.

Magnavox (Australia) Pty. Ltd., assignee: *See*—
Charlesworth, Reginald D.

Magnuson, Roy M., San Jose, assignor to Basic Vegetable Products Co., Vacaville, Calif. Slicing machine and method. 2,590,987, Apr. 1.

Magnusson, John-Erik: *See*—
Hård af Segerstad, Carl G., and Magnusson.

Mahoney, Wilber B., Jr., Modesto, Calif. Flow control valve. 2,591,274, Apr. 1.

Maier, Herbert N., Pottstown, Pa., assignor to Doehler-Jarvis Corporation, New York, N. Y. Removal of flash, fin, and burr. 2,591,083, Apr. 1.

Maison Breguet (Societe Anonyme), assignee: *See*—
Nuquet, Pierre E. C.

Malmros, Gustav V. A.: *See*—
Johnson, Reynold B., Hendrich, and Malmros.

Manganese Battery Corporation, assignee: *See*—
Fox, Abraham L.

Manilych, Samuel, Brooklyn, and L. L. Lambert, Flushing, assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Cutting oil. 2,591,570, Apr. 1.

Manning, Ruben T., Maury City, Tenn. Ventilated footwear. 2,591,454, Apr. 1.

Mansour, Edmund F., Kansas City, Mo. Bow necktie. 2,591,366, Apr. 1.

Marino, Joseph, Brooklyn, N. Y. Electric lamp with ball switch. 2,591,571, Apr. 1.

Markarian, Moushy: *See*—
Brooks, Lester A., Markarian, and Nazzewski.

Marken, Richard F., Burlingame, Calif. Grain conditioner. 2,591,173, Apr. 1.

Marsh, E. H., trustee: *See*—
Martin, Thomas A.

Marshall, Donald E., Summit, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Supporting and content dispensing attachment for collapsible tubes. 2,591,455, Apr. 1.

Martin, Armor B., Butte, Mont. Apparatus for determining the solidifying temperatures of vapors dispersed in gases. 2,591,084, Apr. 1.

Martin, Glenn L., Company, The, assignee: *See*—
Bombardt, Warren C., and Sorg.
Imler, Donald T.

Martin, Jack R.: *See*—
Jacobs, Harold, and Martin.

Martin, John N., Tulsa, Okla. Well pump valve. 2,591,174, Apr. 1.

Martin, Paul N., Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company. Railway track circuits. 2,591,456, Apr. 1.

Martin, Robert, Spondon, near Derby, England, assignor to British Celanese Limited. Power-transmission belt. 2,590,988, Apr. 1.

Martin, Thomas A., by E. H. Marsh, trustee, assignor to C. Bryant, Knoxville, Tenn. Ash tray. 2,591,175, Apr. 1.

Mascaro, Anthony, assignee: *See*—
Mascaro, Thomas C.

Mascaro, Thomas C., assignor of one-half to A. Mascaro, West Point, Pa. Turf engaging element for cultivating apparatus. 2,591,572, Apr. 1.

Mason, Robert F., Magee, Miss. Piston ring. 2,591,176, Apr. 1.

Matthews, George A., assignor to The Detroit Edison Company, Detroit, Mich. Circuit breaker. 2,590,989, Apr. 1.

Mattox, Vernon R.: *See*—
Kendall, Edward C., and Mattox.

Matuszak, Alfred H.: *See*—
Morway, Arnold J., and Matuszak.

Mauchly, John W.: *See*—
Eckert, John P., Jr., and Mauchly.

Mayer, Oscar, & Co., Inc., assignee: *See*—
Botts, Robert E.

Mayne, William H., assignor to O. S. Petty, San Antonio, Tex. Seismic surveying. 2,591,177, Apr. 1.

Maynes, Emma C., executrix, assignee: *See*—
Maynes, Hyla F.

Maynes, Hyla F., deceased, assignor of one-half to E. C. Maynes, Miami, Fla.; E. C. Maynes, executrix of said H. F. Maynes. Syringe operating device. 2,591,457, Apr. 1.

McAdam, Harry H., Redwood City, assignor to Hodges Research and Development Company, San Francisco, Calif. Apparatus for aging meats and storing vegetables. 2,591,178, Apr. 1.

McAllister, Sumner H., Lafayette, assignor to Shell Development Company, San Francisco, Calif. Alkylation of isoparaffins with isomerized olefins. 2,591,367, Apr. 1.

McAlpine, Roderick K., U. S. Army, Arlington, Va. Relay ring circuit. 2,590,879, Apr. 1.

McBean, Douglas M., assignor to McBean Research Corporation, Rochester, N. Y. Heat exchanger. 2,591,179, Apr. 1.

McBean Research Corporation, assignee: *See*—
McBean, Douglas M.

McBee Company, The, assignee: *See*—
Decker, David A.

McBurney, Charles H., assignor to Rohm & Haas Company, Philadelphia, Pa. Resinous insoluble reaction products of tertiary amines with haloalkylated vinyl aromatic hydrocarbon copolymers. 2,591,573, Apr. 1.

McBurney, Charles H., assignor to Rohm & Haas Company, Philadelphia, Pa. Nitrogenous anion-exchange resins. 2,591,574, Apr. 1.

McCall, Donald O., assignor to Basalt Rock Company, Inc., Napa, Calif. Machine for bending sheets. 2,591,085, Apr. 1.

McCandless, Stanley, Hamden, Conn., assignor to Century Lighting, Inc., New York, N. Y. Reflector for controlling at a predetermined angle direct and reflected rays from a light source. 2,591,661, Apr. 1.

McCarthy, James F., Mars, Pa., assignor, by mesne assignments, to Treesdale Laboratories and Textile Processing Company. Water- and flameproofing composition. 2,591,368, Apr. 1.

McClintock, Cecil V.: *See*—
Lacy, Roy, Rossier, and McClintock.

McClintock, Hazel C., executrix: *See*—
Lacy, Roy, Rossier, and McClintock.

McCollum, Thomas A., River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Expandible fastener insert. 2,591,575, Apr. 1.

McCormic, John T., Indianapolis, Ind. Fishing bait or lure. 2,590,990, Apr. 1.

McCormick, Frank, Nyack, N. Y., assignor to Federal Carton Corporation, North Bergen, N. J. Holder for rolls of tape with inserts. 2,591,576, Apr. 1.

McCullough, Dan C.: *See*—
Hunsaker, Harold J., and McCullough.

McCullough Tool Company, assignee: *See*—
Tow, James O.

McDermott, John P., Roselle, N. J., assignor to Standard Oil Development Company. Lubricating oil containing disulfide derivatives of organo-substituted thiophosphoric acids. 2,591,577, Apr. 1.

McDonald, Otis S., Green Cove Springs, Fla. Paddle. 2,590,991, Apr. 1.

McEwan, James, San Jose, Calif. Saw sharpener. 2,590,992, Apr. 1.

McGraw Electric Company, assignee: *See*—
Schultz, William O.

McGuckin, Warren F., and E. C. Kendall, Rochester, Minn., assignors to Research Corporation, New York, N. Y. Introduction of a double bond in ketosteroids. 2,590,993, Apr. 1.

McGuire, Le Roy A., Leonardo, N. J., assignor to Peabody Engineering Corporation, New York, N. Y. Pilot burner and flame retaining means. 2,591,458, Apr. 1.

McKay, Joseph, Port Vue, Pa. Braking apparatus for roller conveyers. 2,590,994, Apr. 1.

McKee, Hilton J.: *See*—
Burge, James S., McKee, Rider, Conrad, and Foust.

McKee, Raymond E.: *See*—
Harris, McLean H., and McKee.

McKone, Archie, Vancouver, British Columbia, Canada. Preloader. 2,591,180, Apr. 1.

McLauchlan, Arthur B., Salem, Oreg. Berry cleaner. 2,591,086, Apr. 1.

McLean, Robert E., Fort Benning, Ga., assignor to J. C. Hockery, Kansas City, Mo. Rotary type can opener. 2,591,181, Apr. 1.

McNealy, Raymond W., and J. A. Glassman, Chicago, Ill. Insulated container. 2,591,578, Apr. 1.

McQuay-Norris Manufacturing Company, assignee: *See*—
Mudd, Harry A.

Meany, Robert E., Chicago, Ill. Bird feeder. 2,591,459, Apr. 1.

Meincke, A. M., & Son, Inc., assignee: *See*—
Yarber, Clifford J.

Merck & Co., Inc., assignee: *See*—
Stein, Gustav A., and Stevens.

Merrill, Faylon M., Grand Rapids, Mich., assignor to Sackner Products, Inc. Woven fabric adapted for use as upholstery covers and the like. 2,590,995, Apr. 1.

Metzger, William J., East Cleveland, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 2,591,275, Apr. 1.

Michal, Joseph, Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Permanent-signal indicating system. 2,591,579, Apr. 1.

Michal, Joseph, Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Special trunk circuits for transmitting tones to calling subscribers. 2,591,580, Apr. 1.

Middleton, Carl W., Larchmont, and E. F. Middleton, New Rochelle, N. Y. Display container. 2,591,276, Apr. 1.

Middleton, Earl F.: *See*—
Middleton, Carl W. and E. F.

Miller, Dorothy L., and S. A. Miller, Casper, Wyo., assignors of twenty-five per cent to S. Jourgensen and twenty-five per cent to J. L. Jourgensen. Pants. 2,591,182, Apr. 1.

Miller, Leonidas C., Los Angeles, Calif. Orientation device for wells. 2,590,880, Apr. 1.

Miller, Stanton A.: *See*—
Miller, Dorothy L. and S. A.

Millerwise, Carl H., assignor to Detroit Lubricator Company, Detroit, Mich. Trip and reset mechanism for float operated liquid fuel controlling valves. 2,591,581, Apr. 1.

Millican, Edward L., assignee: *See*—
Millican, Roy E.

Millican, George L., assignee: *See*—
Millican, Roy E.

Millican, Roy E., assignor of one-third to C. C. Johnston, Jr., one-third to G. L. Millican, one-sixth to E. L. Millican and one-sixth to M. M. M. Phillips, Dallas, Tex. Hydropneumatic graduator. 2,591,087, Apr. 1.

Milliman, Jacob, Brookline, Mass., and R. C. Allen, Carthage, Mo., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Video blanking circuit. 2,591,088, Apr. 1.

Miloche, Herman A., Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,590,996, Apr. 1.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Riche, Arthur L.

Minor, Edward E.: *See*—
Dougherty, Charles E., and Minor.

Mintz, Henry A., Norwood, Mass. Pallet for stamping machines. 2,591,369, Apr. 1.

Mintz, Jacob J., Somerville, N. J., assignor to A. L. Siegel Co., Inc., New York, N. Y. Mothproof garment bag. 2,591,277, Apr. 1.

Mintz, Victor W., Maplewood, N. J. Dental paralleling device. 2,591,183, Apr. 1.

Mitchell, Edward, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Separating colloidally dispersed iron particles from organic liquids. 2,590,997, Apr. 1.

Molins Machine Company, Limited, assignee: *See*—
Chalmers, John W., and Jackson.
Roffey, William A., and Tredget.
Ruau, Felix F.

Moloney, Raymond T., assignee: *See*—
Collins, Edward J.

Monette, Gib, assignor to Atomiko, Inc., Chicago, Ill. Welding transformer. 2,591,582, Apr. 1.

Monsanto Chemical Company, assignee: *See*—
Dazzi, Joachim.
Hill, Rutherford B.
Mowry, David T.
Walter, Henry A.

Montres Rolex S. A. (Rolex Watch Co. Ltd.), assignee: *See*—
Huguenin, Marc.

Moody, Leonard E., Elizabeth, and J. W. Hand, Jr., Summit, N. J., assignors to Standard Oil Development Company. Rust preventive. 2,591,583, Apr. 1.

Moon, Sterling C., Worthington, Ohio, assignor to The Jeffrey Manufacturing Company. Belt conveyor drive. 2,591,089, Apr. 1.

Moon, Sterling C., Worthington, Ohio, assignor to The Jeffrey Manufacturing Company. Wheel suspension and steering assembly. 2,591,584, Apr. 1.

Moore, James W., Norfolk, Va. Spraying device. 2,591,585, Apr. 1.

Morgan, Clarence A., Albany, Calif. Clothespin. 2,590,881, Apr. 1.

Morgan, Erving B., assignor to American Seating Company, Grand Rapids, Mich. Damper construction. 2,590,998, Apr. 1.

Morgan, Wallace E., Winamac, Ind. Adjustment for tractor mounted scoop type ditchers. 2,591,278, Apr. 1.

Morrill, Weston, Pittsfield, Mass., assignor to General Electric Company. Providing magnetic sheet steel with an insulative film. 2,591,460, Apr. 1.

Morton, Stanley A., Wilkes-Barre, Pa. Tamping or stemming plug. 2,590,882, Apr. 1.

Morway, Arnold J., Clark Township, Union County, and A. H. Matuszak, Westfield, N. J., assignors to Standard Oil Development Company. High-temperature lubricating greases. 2,591,586, Apr. 1.

Moser, Eduard: *See*—
Schmid, Max, Danuser, Johner, Moser, and Wuergler.

Mowrey, Lester D.: *See*—
Smith, Ellis B., and Mowrey.

Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Tri-alkenyl benzene. 2,591,587, Apr. 1.

Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Fungicidal use of certain furfuryl carbanilates. 2,591,588, Apr. 1.

Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Gamma-nitroalkyl-alpha,beta-dichloro-gamma-crotonolactones. 2,591,589, Apr. 1.

Mudd, Harry A., Maplewood, assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo. Control device. 2,591,184, Apr. 1.

Mueller, Fritz W. H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Antistatic photographic film. 2,591,590, Apr. 1.

Muench, Walter, assignor to Walter Muench, Incorporated, Newark, N. J. Diamond holder for 180 degree concave radii in grinding wheels. 2,591,591, Apr. 1.

Muench, Walter, Incorporated, assignee: *See*—
Muench, Walter.

Muller, George J., Philadelphia, assignor, by mesne assignments, to Taylor Fibre Co., Norristown, Pa. Vibration isolator. 2,591,461, Apr. 1.

Mundy, Arthur L.: *See*—
Mundy, Edward R. and A. L.

Mundy, Edward R., Ephrata, Wash., and A. L. Mundy, Ben Hill, Ga. Collapsible map and schedule display device. 2,591,279, Apr. 1.

Mungo, Thomas A., Bronx, N. Y. Posture-corrective brassière. 2,591,462, Apr. 1.

Muros, Joseph, Newtonville, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 2,591,280, Apr. 1.

Murray Ohio Manufacturing Company, The, assignee: *See*—
Douglas, Alvin P., and Walters.

Musschoot, Albert, Chicago, Ill., assignor to Link-Belt Company. Mount for oscillating materials handling equipment. 2,591,281, Apr. 1.

Myers, Herman E.: *See*—
Kinney, Everett F., and Myers.

Napier, D., & Son Limited, assignee: *See*—
Cowdrey, Cecil L., and Kinsella.

Nash-Kelvinator Corporation, assignee: *See*—
Philipp, Lawrence A.

Nasmith, John I., assignor to Vickers-Armstrongs Limited, London, England. Automatic safety mechanism for mechanically operated cutting knives severing strip materials. 2,591,592, Apr. 1.

National Cash Register Company, The, assignee: *See*—
Guiden, Ernest V., and Klopf.
Klopf, James A.
Rench, Carl F.

National Cylinder Gas Company, assignee: *See*—
Bottoms, Robert R.

National Malleable and Steel Castings Company, assignee: *See*—
Metzger, William J.

National Supply Company, The, assignee: *See*—
Shoup, Stanley S.

National Wire Hanger Manufacturing Co., Inc., assignee: *See*—
Burns, Joseph K.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Anderson, Wilmer C.
Milliman, Jacob, and Allen.
Smith, Allen E.

Nazzewski, Mathew: *See*—
Brooks, Lester A., Markarian, and Nazzewski.

Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, ten behoeve van Nijverheid, Handel en Verkeer, assignee: *See*—
Taat, Willem J., and Korndorffer.

Neely, William H., assignor to The Universal Wire Spring Company, Cleveland, Ohio. Wire spring structure. 2,591,185, Apr. 1.

Neitzke, Raymond A., Esterville, Iowa. Truck box cover. 2,591,186, Apr. 1.

Nelson, Lewen R., Peoria, Ill. Sprinkler head for use on underground water systems. 2,591,282, Apr. 1.

Nelson, Robert E., Kern County, Calif. Engine exhaust condenser. 2,591,187, Apr. 1.

Nelson, Rolland D., Hales Corners, and E. A. Link, assignors to Rural Transformer & Equipment Co., Milwaukee, Wis. Lightning arrester. 2,591,370, Apr. 1.

Nesbitt, John D., Sylvania, and H. W. Schramm, assignors to Surface Combustion Corporation, Toledo, Ohio. Radiant work heating gas burner. 2,591,283, Apr. 1.

New Bedford Cordage Company, assignee: *See*—
Snyder, Robert A.

Newman, Odus O., Normandy, assignor to Carter Carburetor Corporation, St. Louis, Mo. Metering pin. 2,591,090, Apr. 1.

Nielsen, Vandel L., Greenville, Mich. Carrier for cartons and the like. 2,590,999, Apr. 1.

Nierhaus, Henry, Scarsdale, assignor to Stoffel Seals Corporation, Tuckahoe, N. Y. Metal tag. 2,590,883, Apr. 1.

Nilsson, Nils E., Vaggeryd, Sweden. Apparatus for recovering the inorganic content of concentrated waste liquor. 2,591,188, Apr. 1.

Nimmo, Raymond L., Fort Worth, Tex. Douche nozzle. 2,591,371, Apr. 1.

Nolan, Lester S., Pittsburgh, Pa. Handle for carton carriers. 2,591,593, Apr. 1.

Nordenstam, Norris, Riverside, Calif. Lighter. 2,591,189, Apr. 1.

North American Aviation, Inc., assignee: *See*—
O'Brien, Edward A.
Rose, Erwin K., and Prill.

Nuquet, Pierre E. C., Boulogne-Billancourt, assignor to Maison Breguet (Societe Anonyme), Paris, France. Ignition device for arc lamps. 2,591,594, Apr. 1.

Nyberg, Herman: *See*—
Gurton, William S., and Nyberg.

O'Brien, Edward A., Redondo Beach, Calif., assignor to North American Aviation, Inc. Retractable flap support. 2,591,000, Apr. 1.

O'Connor, Robert J., Kansas City, Mo. Reciprocable windshield wiper blade mounting. 2,591,091, Apr. 1.

Odén, Gösta K., Nybro, Sweden. Foldable reclining chair. 2,591,284, Apr. 1.

Ogorzaly, Henry J., Summit, N. J., assignor to Standard Oil Development Company. Controlling the temperature of exothermic reactions such as the gasification of carbonaceous solids. 2,591,595, Apr. 1.

Oil Center Tool Company, assignee: *See*—
Eckel, John E.

Okonski, Alexander D., Chicago, Ill. Fingernail guard. 2,591,092, Apr. 1.

Okun, Nathaniel N., Far Rockaway, assignor to Atlas Floor Surfacing Machinery Corp., New York, N. Y. Rotary brush with liquid receiving and feeding chamber. 2,591,093, Apr. 1.

Oliver Iron and Steel Corporation, assignee: *See*—
Overly, Charles D.

Olpe, Werner G., Jamaica, N. Y. Garment hanger. 2,591,001, Apr. 1.

Olsen, Johannes M., Slagelse, Denmark. Clothes pin. 2,591,596, Apr. 1.

Olson, Holly M., assignor to Sealed Power Corporation, Muskegon, Mich. Piston ring. 2,591,190, Apr. 1.

O'Neill, James, New York, N. Y. Combined sealing tab and bookmark. 2,591,094, Apr. 1.

Opp, Fred W., Costa Mesa, and W. H. Opp, Altadena, Calif. Electric weed-killing apparatus. 2,591,597, Apr. 1.

Opp, Walter H.: *See*—
Opp, Fred W. and W. H.

Ornstein, Matthew: *See*—
Ornstein, Max and M.

Ornstein, Max and M., New York, N. Y. Umbrella cover construction and tip therefor. 2,591,095, Apr. 1.

Osmetti, Andrew, Beckworth, Calif. Branding and dehorning chute for cattle. 2,591,191, Apr. 1.

Overly, Charles D., assignor to Oliver Iron and Steel Corporation, Pittsburgh, Pa. Bolt finishing machine. 2,591,285, Apr. 1.

Owens-Illinois Glass Company, assignee: *See*—
Spalding, Richard O.

Owler, Robert N., Westminster, assignor to Heywood-Wakefield Company, Gardner, Mass. Adjustable footrest. 2,591,598, Apr. 1.

P & K Incorporated, assignee: *See*—
Cooper, Leo.

Pacific Clay Products, assignee: *See*—
Lacy, Roy, Rossier, and McClintock.

Pacific Mills, assignee: *See*—
Dalton, John N., and Ploubides.

Page, Robert M., Washington, D. C. Pulse echo ranging cathode-ray tube sweep system. 2,590,884, Apr. 1.

Parker, Rollin J., Schenectady, N. Y., assignor to General Electric Company. Magnetic torque device. 2,591,463, Apr. 1.

Parker Rust Proof Company, assignee: *See*—
Ward, Herbert K.

Parkinson, David B., Cleveland Heights, Ohio, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spaced-pulse impulse sender. 2,590,885, Apr. 1.

Parks, Mercer H., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Structure for drilling wells in deep water. 2,591,599, Apr. 1.

Parr, Josephus O., Jr., assignor to O. S. Petty, San Antonio, Tex. Seismic surveying. 2,591,192, Apr. 1.

Parsons, Robert J., Bridgeport, Conn., assignor to General Electric Company. Hydraulic power unit for presses and the like. 2,591,464, Apr. 1.

Parva Products Company, assignee: *See*—
White, Paul W., and Schutz.

Pauling, Linus: *See*—
Campbell, Dan H., Koepfli, and Pauling.

Paulvé, Marcel L. A., Parmain, France. Metal cartridge and producing same. 2,591,286, Apr. 1.

Peabody Engineering Corporation, assignee: *See*—
McGuire, Le Roy A.
Sloan, Stephen A.

Pear, Charles B., Jr., College Park, Md., assignor to Washington Institute of Technology, Washington, D. C. Radiosonde calibration method. 2,591,600, Apr. 1.

Pedersen, Svend L., Copenhagen, Denmark. Strain relief for electrical connectors. 2,590,886, Apr. 1.

Pedron, Ettore, Eugene, Oreg. Router. 2,591,002, Apr. 1.

Pellar, Fred, Chicago, and J. C. Zivny, Berwyn, assignors to Revere Camera Company, Chicago, Ill. Chuck. 2,591,287, Apr. 1.

Penick, Joe E., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Hydrogen fluoride recovery. 2,591,096, Apr. 1.

Perrin, John: *See*—
Brougham, Leslie E., and Perrin.

Perry, Fernande E., Leesburg, Fla. Zipper closure. 2,591,193, Apr. 1.

Pestarini, Joseph M., Staten Island, N. Y. Transformer metadyne. 2,590,887, Apr. 1.

Peters, Norman J., and W. Bradley, assignors to Damrow Brothers Company, Fond du Lac, Wis. Barrel type cooper. 2,591,601, Apr. 1.

Peterson, Axel: *See*—
Lofgren, Gustaf E., and Peterson.

Petit, Regnaux P. J., Huy, Belgium. Shoulder piece. 2,591,372, Apr. 1.

Petruch, Methodius C., Tampa, Fla. Lockable knee joint for orthopedic braces or artificial limbs. 2,591,373, Apr. 1.

Petty, Olive S., assignee: *See*—
Mayne, William H.
Parr, Josephus O., Jr.

Peyssonneaux, Albert: *See*—
Roatta, Edouard, and Peyssonneaux.

Pfister, William T., Los Angeles, Calif. Apparatus for separating and cleaning potatoes. 2,591,194, Apr. 1.

Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerator door. 2,591,003, Apr. 1.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Cylinder broach. 2,591,004, Apr. 1.

Phillips, Mattie M. M., assignee: *See*—
Millican, Roy E.

Phillips Petroleum Company, assignee: *See*—
De Boisblanc, Deslonde R.
Garretson, Owen L.
Tilley, Aubra E.

Picciano, Michael A., Maywood, assignor to Breeze Corporations, Inc., Newark, N. J. Thermal flowmeter. 2,591,195, Apr. 1.

Pickard, Henry M.: *See*—
Bohannan, Robert C., Pickard, and Horning.

Pickart, Donald E.: *See*—
MacLean, Alexander F., and Pickart.

Pilcher, Matt V., Sarasota, Fla. Airplane safety device. 2,591,602, Apr. 1.

Piltch, Eugene: *See*—
Cohen, Samuel H., and Piltch.

Piper, William E., Salt Lake City, Utah. Machine for driving rail fastening screws in railroad ties. 2,591,005, Apr. 1.

Pitchford, Arthur H., Pittsburgh, Pa. Shaving appliance. 2,591,288, Apr. 1.

Place, Charles E. S., Highland Park, Mich. Condensation retaining receptacle. 2,591,374, Apr. 1.

Ploubides, John P.: *See*—
Dalton, John N., and Ploubides.

Popoff, Vladimir, San Francisco, Calif. Dispensing cap having cam actuated closure. 2,591,465, Apr. 1.

Post, Ralph R., Waterbury Center, Vt. License tag holder. 2,591,196, Apr. 1.

Powell, Roger F., Gwelo, Southern Rhodesia, and H. M. Stanley, Tadworth, England. Frothing agents for use in froth flotation processes. 2,591,289, Apr. 1.

Powers-Samas Accounting Machines Limited, assignee: *See*—
Brougham, Leslie E., and Perrin.
Haines, Sidney R.

Prill, Fred R.: *See*—
Rose, Erwin K., and Prill.

Proctor, K. R., assignee: *See*—
Findley, James P. and H. J.

Proctor & Schwartz, Inc., assignee: *See*—
Shegda, Michael.

Production Tool & Die Co. Inc., assignee: *See*—
Gaudreau, Richard J.
Vigneault, Oswald R., and Small.

Prokop, Frank J.: *See*—
Du Mais, Leo J., Bernzott, and Prokop.

Prupis, Robert I.: *See*—
Berman, Hans, and Prupis.

Pugsley, Hugh J., Pittsburgh, assignor to Swindell-Dressler Corporation, Aspinwall, Pa. Base for cover-type annealing furnace with external means for circulating and cooling atmosphere gases. 2,591,097, Apr. 1.

Pullman-Standard Car Manufacturing Company, assignee: *See*—
Radey, Charles R.

Quaker Oats Company, The, assignee: *See*—
Turner, Charles W., and Reineke.

Quist, Harold A., Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa. Breathing device for storage tanks. 2,591,098, Apr. 1.

Radey, Charles R., Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill. Railway car end lining arrangement. 2,591,006, Apr. 1.

Radford, Henry, Brooklyn, N. Y. Cooling device for drinks, soups, or the like. 2,591,375, Apr. 1.

Radio Corporation of America, assignee: *See*—
Hershberger, William D.
Wilkinson, William C., Jr.

Radio-Television Institute, Inc., assignee: *See*—
Lindley, Frederick A., and Arbuckle.

Ragan, Thomas M., Downey, assignor to Baker Oil Tools, Inc., Vernon, Calif. Plug catcher and indicator. 2,591,603, Apr. 1.

Ramsey, Joseph D., assignee: *See*—
Adams, Harry D.

Randall Graphite Products Corporation, assignee: *See*—
Whiteley, Robert H.

Randol, Glenn T., Fort Lauderdale, Fla. Control valve means for fluid-actuated servomotors. 2,590,888, Apr. 1.

Rasero, Lawrence J., assignor to The Russell Manufacturing Company, Middletown, Conn. Ladder tape. 2,590,889, Apr. 1.

Rasmussen, Christian O., assignor to Simplex, Copenhagen, Denmark. Washing machine. 2,591,290, Apr. 1.

Rasmussen, Kristian, Copenhagen, Denmark. Internal-combustion engine. 2,591,099, Apr. 1.

Rau, David W., Kirkwood, Mo., assignor to Vickers, Incorporated. Fluid pressure regulating apparatus. 2,591,197, Apr. 1.

Raymond, Hubert F., Toronto, Ontario, Canada. Releasing tap and die holder. 2,591,291, Apr. 1.

Raytheon Manufacturing Company, assignee: *See*—
Gorn, Elmer J.
Stutsman, Paul W.
Wild, Norman R.

Reck, Richard A., assignor to Armour and Company, Chicago, Ill. Preparation of naphthalenemethylol esters. 2,591,604, Apr. 1.

Redmond Company, Inc., assignee: *See*—
Ballentine, Earle W.

Redo, Saverio F., Springfield Gardens, N. Y. Wire reel. 2,590,890, Apr. 1.

Reed, Frank C., Williamsport, Md. Tea bag holder. 2,591,606, Apr. 1.

Reed, Frank M., Elton, Pa. Electric power supply system. 2,591,605, Apr. 1.

Rees, Vivian S., North Sacramento, Calif. Jet-propelled wheeled vehicle. 2,591,376, Apr. 1.

Reeves, Donald H., Darton, Ohio, assignor to Donald H. Reeves and Associates, Beulah, Mich. Fluid valve. 2,591,292, Apr. 1.

Reeves, Donald H., Dayton, Ohio, assignor to Donald H. Reeves and Associates, Beulah, Mich. Fluid valve. 2,591,293, Apr. 1.

Reeves, Donald H., and Associates, assignee: *See*—
Reeves, Donald H.

Reineke, Ezra P.: *See*—
Turner, Charles W., and Reineke.

Remington Rand Inc., assignee: *See*—
Cariasimi, Louis C.

Rench, Carl F., Troy, assignor to The National Cash Register Company, Dayton, Ohio. Electronic accounting machine. 2,591,007, Apr. 1.

Rench, Carl F., Troy, assignor to The National Cash Register Company, Dayton, Ohio. Electronic accumulator. 2,591,008, Apr. 1.

Research Corporation, assignee: *See*—
Kendall, Edward C., and Mattox.
McGucklin, Warren F., and Kendall.

Reuter, Frederic W., Towanda, Pa. Cassette. 2,590,891, Apr. 1.

Reuter, Frederic W., Towanda, Pa. X-ray film exposure holder. 2,590,892, Apr. 1.

Revere Camera Company, assignee: *See*—
Pellar, Fred, and Zivny.

Reynolds, William W., and G. F. Lipsey, Pittsfield, Mass., assignors to General Electric Company. Resinous composition comprising zein, resinous pinewood extract, and liquid phenolic resin. 2,591,466, Apr. 1.

Rheem Manufacturing Company, assignee: *See*—
James, Richard E., and Lampert.

Rich, William D., Elgin, Ill. Mold. 2,591,607, Apr. 1.

Richardson, Arthur B. F. G., E. Tunnicliff, and I. K. Fisher, Leigh, assignors to British Insulated Callender's Cables Limited, London, England. Apparatus for covering electric conducters and cable cores with rubber or similar material. 2,591,608, Apr. 1.

Riche, Arthur L., Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Separable electrical connector. 2,591,009, Apr. 1.

Rider, Morgan W.: *See*—
Brandt, Weldon H., Rider, and Westphal.

Rider, Warren M.: *See*—
Burge, James S., McKee, Rider, Conrad, and Foust.

Ringe, Donald F., assignor to Vokes Limited, Guildford, England. Apparatus for cleaning filters. 2,591,198, Apr. 1.

Rinse, Jacobus: *See*—
Stephanus, Hendricus, and Rinse.

Ripich, Stephen J., Cleveland, Ohio. Fishhook support and sinker. 2,591,294, Apr. 1.

Roach, John R.: *See*—
Wittcoff, Harold, and Roach.

Roatta, Edouard, Izieux, and A. Peyssonneaux, Grenoble, France, assignors, by mesne assignments, to Textile and Chemical Research Company Limited, St. Peter Port, Guernsey, Channel Islands. Cop-type bobbin and package wound thereon. 2,591,295, Apr. 1.

Roberts, Philip B., and T. B. Button, Durham, Conn. Poultry feeding apparatus. 2,591,609, Apr. 1.

Robinson, Grady P., Tampa, Fla. Ventilated metal awning. 2,591,610, Apr. 1.

Rodefer, Lloyd, San Diego, Calif., assignor to M. Rodefer. Wet clothes tray. 2,591,467, Apr. 1.

Rodefer, Magdelena, assignee: *See*—
Rodefer, Lloyd.

Roffey, William A., and C. A. Tredget, Deptford, assignors to Molins Machine Company Limited, London, England. Apparatus for feeding labels or blanks. 2,591,199, Apr. 1.

Rogers, Eugene D., Key West, Fla. Hand-operated liquid atomizer. 2,591,296, Apr. 1.

Rohm & Haas Company, assignee: *See*—
McBurney, Charles H.

Rollins, Jennings F., Westfield, N. J., and M. E. Brooks Elmhurst, assignors to The Lummus Company, New York, N. Y. Distillation column. 2,591,010, Apr. 1.

Rolls-Royce Limited, assignee: *See*—
Grylls, Shadwell H.

Rollway Bearing Company, Inc., assignee: *See*—
Kilian, Rudolph R.

Rorem, Bernard E., Dayton, Ohio. Support for cup type mop wringers. 2,591,468, Apr. 1.

Rose, Erwin K., Santa Monica, and F. R. Prill, Inglewood, Calif., assignors to North American Aviation, Inc. Compensating differential control mechanism. 2,591,011, Apr. 1.

Rosenstein, Leo D., assignee: *See*—
Carter, Joseph S.

Rosenstein, Samuel J., assignee: *See*—
Carter, Joseph S.

Rosenthal, Henry L., assignor to H. L., P. H., L. E., and M. A. Rosenthal, co-partners doing business as Rosenthal Mfg. Co., Milwaukee, Wis. Self-feeding corn husking machine. 2,591,200, Apr. 1.

Rosenthal, Lawrence E., assignee: *See*—
Rosenthal, Henry L.

Rosenthal, Mabel A., assignee: *See*—
Rosenthal, Henry L.

Rosenthal Mfg. Co., assignee: *See*—
Rosenthal, Henry L.

Rosenthal, Michael C., Long Beach, N. Y. Television antenna construction. 2,591,297, Apr. 1.

Rosenthal, Paul H., assignee: *See*—
Rosenthal, Henry L.

Ross, Sidney D., assignor to Sprague Electric Company, North Adams, Mass. Chlorine containing compounds. 2,591,611, Apr. 1.

Rossier, John D.: *See*—
Lacy, Roy, Rossier, and McClintock.

Rouse, Claude C., Houston, Tex. Cooling basin for air conditioning units. 2,591,100, Apr. 1.

Roux, William E., Oriskany, N. Y. Equipment for use in the manufacture of drawing dies. 2,591,298, Apr. 1.

Rowand, Howard C., Wanakena, N. Y., assignor to Westinghouse Air Brake Company. Clutch control apparatus. 2,591,201, Apr. 1.

Rowand, Will H., Madison, and C. S. Smith, Westfield, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Steam generating apparatus. 2,591,299, Apr. 1.

Rowe, Oliver R., G. Schoeneck, and W. J. Stolp, Charlotte, N. C., assignors to R. H. Bouligny, Inc. Top roll assembly. 2,591,612, Apr. 1.

Ruau, Felix F., London, assignor to Molins Machine Company Limited, Deptford, London, England. Cigarette collecting mechanism with upstanding members on a conveyer for releasably supporting flexible end portions of receptac'es. 2,591,202, Apr. 1.

Rupp, William C., Parma, assignor to The Chandler & Price Company, Cleveland, Ohio. Inking mechanism for printing presses. 2,591,613, Apr. 1.

Rural Transformer & Equipment Co., assignee: *See*—
Nelson, Rolland D., and Link.

Rush, John W.: *See*—
Williams, Samuel L., and Rush.

Russell, Charles W. R.: *See*—
Seymour, Evie R., and Russell.

Russell Manufacturing Company, The, assignee: *See*—
Rasero, Lawrence J.

Rutter, John M., assignee: *See*—
Brewster, Albert.

Sackner Products, Inc., assignee: *See*—
Merrill, Faylon M.

Sacrey, Elmer P., Syracuse, N. Y. Rotary cutter head with slotted bit seats. 2,591,614, Apr. 1.

Sadler, Charles W., Essex, Conn. Mortar applicator. 2,591,377, Apr. 1.

Saff, Adrian F., and D. W. Uber, Kane, Pa. Rolling contact measuring device. 2,591,615, Apr. 1.

Saito, Haruhiro, Tokyo, Japan, assignor to I. B. Wolfset & Co., New York, N. Y. Animated mechanical toy. 2,591,469, Apr. 1.

Salisbury, Winfield W., assignor to Collins Radio Company, Cedar Rapids, Iowa. Electron tube of the high-frequency and high-power type. 2,591,012, Apr. 1.

Samcoe Holding Corporation, assignee: *See*—
Cohn, Samuel, Walter, and Cohn.

Sampogna, Joseph, Yonkers, N. Y. Antiskid device. 2,591,300, Apr. 1.

Sampson, Charles T., Wilberforce, Ohio. Fishhook. 2,591,013, Apr. 1.

Sanborn, Paul H., Parkersburg, W. Va. Insulator. 2,590,893, Apr. 1.

Sanborn, Paul H., Parkersburg, W. Va. Electrical conductor. 2,590,894, Apr. 1.

Sanchis, Jose, Newark, N. J. Desk type penholder and inkstand. 2,591,616, Apr. 1.

Sansom, William D., Detroit, Mich. Combined thinning and shaping scissors. 2,591,014, Apr. 1.

Sanson Hosiery Mills, Inc., assignee: *See*—
Livingston, Cyril W.

Sarin, Krishen K.: *See*—
Siddiqui, Salimuzzaman, Sarin, and Varma.

Savino, Henry C., Jersey City, N. J. Automatic telemetering system. 2,591,617, Apr. 1.

Scarpellino, Louis A., Kansas City, Mo. Myelographic needle. 2,590,895, Apr. 1.

Schacht, William J., Huntington, Ind. Food saver. 2,591,301, Apr. 1.

Schaeffer, Jack W., Youngstown, Ohio. Remote starting control for internal-combustion engines. 2,591,618, Apr. 1.

Schiff, Karl L., assignor to The Budd Company, Philadelphia, Pa. Seam welded blanks and making them. 2,591,302, Apr. 1.

Schlamann, Johannes T. M., Delft, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Two-stroke cycle internal-combustion engine with slide valve. 2,591,619, Apr. 1.

Schlumberger Well Surveying Corporation, assignee: *See*—
Krasnow, Shelley, and Curtiss.

Schmalz, Albano, Chicago, Ill. Pin forming and button-pinning mechanism. 2,591,203, Apr. 1.

Schmid, Max, Riehen, J. Danuser, Arlesheim, H. Johner, and E. Moser, Basel, and J. Wuergler, Neuewelt, near Basel, assignors to Ciba Limited, Basel, Switzerland. Azo dyestuffs. 2,591,470, Apr. 1.

Schnepel, Frederick W., Elmira, N. Y. Fishing reel. 2,591,204, Apr. 1.

Schoemann, Paul, Toulon-Claret, France. Apparatus for vacuum sealing of containers. 2,591,015, Apr. 1.

Schoeneck, George: *See*—
Rowe, Oliver R., Schoeneck, and Stolp.

Schoenherr, Leonard W., Ludington, Mich. Impaling pin target. 2,591,016, Apr. 1.

Schoenlaub, Robert A., assignor to Sylvester & Company, Cleveland, Ohio. Hermetically sealed insulator bushing assembly. 2,591,205, Apr. 1.

Scholl, William M., Chicago, Ill. Metatarsal arch supporting pad. 2,591,378, Apr. 1.

Schradermeier, Lottie M., North Hollywood, Calif. Toy purse combination. 2,591,379, Apr. 1.

Schramm, Henry W.: *See*—
Nesbitt, John D., and Schramm.

Schreiner, Otto, Vienna, Austria. Convertible automobile body structure. 2,591,380, Apr. 1.

Schriner, Oliver L.: *See*—
Schriner, Russell M. and O. L., and Whyte.

Schriner, Russell M. and O. L., Attica, and L. M. Whyte, Pittsford, N. Y. Mechanical puzzle. 2,591,303, Apr. 1.

Schroeder, George W.: *See*—
Struthers, Donald K., and Schroeder.

Schuch, John A.: *See*—
Dietert, Harry W., and Schuch.

Schuller, Werner, Banstead, England. Device for the production of rods and tubes from glass, plastic or like substance. 2,591,304, Apr. 1.

Schultz, William O., Marshfield, Wis., assignor to McGraw Electric Company. Operating mechanism for multiple point switches. 2,591,017, Apr. 1.

Schutz, Joseph J.: *See*—
White, Paul W., and Schutz.

Schweizerische Industrie-Gesellschaft, assignee: *See*—
Amsler, Rudolf.

Schwertfeger, Walter J., West Englewood, N. J., assignor to Keyes Fibre Company, Waterville, Maine. Molded pulp container. 2,591,471, Apr. 1.

Scott-Dalgleish, Innes, St. Helier, Jersey, Channel Islands. Chair having garment holding attachments. 2,591,381, Apr. 1.

Scott, Floyd L., Jr.: *See*—
Brown, Cicero C., and Scott.

Scott, George P., Kansas City, Mo., assignor to Eveready Briksaw Company, Chicago, Ill. Cutting machine for brick, tile, and similar articles. 2,591,206, Apr. 1.

Scott, William C., Jr.: *See*—
Stout, Edgar L., Scott, and Stinson.

Sealed Power Corporation, assignee: *See*—
Olson, Holly M.

Sears, Roebuck and Co., assignee: *See*—
Anderson, Floyd W., and Hill.

Seele, Jean W., Topeka, Kans. Locking device. 2,590,896, Apr. 1.

Segal, Samuel, New York, N. Y., assignor to Wilson-Jones Co., Chicago, Ill. Paper trimmer. 2,591,472, Apr. 1.

Segesman, Louis E., Canton, assignor to The Hoover Company, North Canton, Ohio. Handle for suction cleaner casing. 2,591,305, Apr. 1.

Sekely, Carl, Salem, Ohio. Grass shears. 2,591,620, Apr. 1.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O.

Sepesy, Bernard C., Streator, Ill. Closure device. 2,591,207, Apr. 1.

Seymour, Evie R., and C. W. R. Russell, Portsmouth, Va. Elimination and irrigation equipment. 2,591,208, Apr. 1.

Shapiro, Hymin: *See*—
Calingaert, George, and Shapiro.

Shebel, Alfred: *See*—
Levinson, Louis J., and Shebel.

Shegda, Michael, assignor to Proctor & Schwartz, Inc., Philadelphia, Pa. Tenter drier. 2,591,621, Apr. 1.

Shell Development Company, assignee: *See*—
Engel, Willem F., and van't Spijker.
Hackmann, Johannes T.
Jonker, Frits.
McAllister, Sumner H.
Schlamann, Johannes T. M.

Shellmar Products Corporation, assignee: *See*—
Lennon, James W.

Sherman, Milton H., Bronx, N. Y. Pillow cushion. 2,591,306, Apr. 1.

Sherwin-Williams Co., The, assignee: *See*—
Altiere, Daniel M., and Burton.
Walton, William T., and Spitzer.

Sherwood, Robert M.: *See*—
Lyon, Waldo K., and Sherwood.

Shoup, Stanley S., Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa. Bearing mounting. 2,591,622, Apr. 1.

Sibel, Frank, West Paterson, N. J. Web drying device. 2,591,307, Apr. 1.

Siddiqui, Salimuzzaman, New Delhi, K. K. Sarin, and J. P. Varma, Poona, assignors to Council of Scientific and Industrial Research, New Delhi, India. Production of a plastic material from shellac and resinols like bhilawan shell liquid or cashew shell liquid suitable for making moulding powders, coating compositions, adhesives, or the like. 2,591,623, Apr. 1.

Siebels, Max C., Minden, Iowa. Tractor hitch. 2,591,624, Apr. 1.

Siegel, A. L., Co., Inc., assignee: *See*—
Mintz, Jacob J.

Simon, Meyer A., Clayton, Mo. Variable weight provision for pressing irons. 2,591,018, Apr. 1.

Simon, Richard M., Ossining, assignor to The Texas Company, New York, N. Y. Spark plug. 2,591,019, Apr. 1.

Simonsson, Hans L., Stockholm, and T. L. Ulfstedt, Sodertalje, assignors to Internationella Siporex Aktiebolaget, Stockholm, Sweden. Rustproofing and using concrete reinforcing elements. 2,591,625, Apr. 1.

Simplex, assignee: *See*—
Rasmussen, Christian O.

Simplex Electric Company, Limited, assignee: *See*—
Lacy-Hulbert, Cyril, and Barton.

Simplex Time Recorder Co., assignee: *See*—
Blouin, Maurice A.

Simpson, Clarence E., Springfield, Mass. Shoulder mortar. 2,590,897, Apr. 1.

Sinclair Refining Company, assignee: *See*—
Kuhn, George F.

Singiser, Frank K., Sudbury, Vt. Light valve system. 2,591,308, Apr. 1.

Slifkin, Sam C., and W. Beese, Binghamton, assignors to General Aniline & Film Corporation, New York, N. Y. Photographically sensitive diazotype element. 2,591,309, Apr. 1.

Sloan, Stephen A., Metuchen, N. J., assignor to Peabody Engineering Corporation, New York, N. Y. Automatic gas igniter tube for burners. 2,591,626, Apr. 1.

Small, Douglas M.: *See*—
Vigneault, Oswald R., and Small.

Smalley Manufacturing Company, assignee: *See*—
Delsman, Quirin C., and Surfus.

Smith, A. O., Corporation, assignee: *See*—
Burklin, Adolf J.
Yost, Lloyd.

Smith, Albert P., Ava, assignor, by mesne assignments, to Barker Saw Company, Springfield, Mo. Drive mechanism for circular saws. 2,590,898, Apr. 1.

Smith, Allen E., Oxford, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Allylated trimethylene trisulfones. 2,591,020, Apr. 1.

Smith, Archie E., Stratford, Conn., assignor to General Electric Company. Screen supported paper bag for tank cleaners. 2,591,382, Apr. 1.

Smith, Charles S.: *See*—
Rowand, Will H., and Smith.

Smith, Darrell W., Odessa, Tex. Washing and drying machine. 2,591,209, Apr. 1.

Smith, Ellis B., and L. D. Mowrey, Wichita Falls, Tex.; said Smith assignor to said Mowrey. Pump. 2,591,101, Apr. 1.

Smith, Helmer E., Sheldon, Iowa. Hen's nest. 2,591,021, Apr. 1.

Smith, James F.: *See*—
Lynch, Harold F., and Smith.

Smith, Jopling P.: *See*—
Volpin, Alexander S., and Smith.

Smith, Raymond L., Arlington, Va. Typewriter keyboard. 2,591,310, Apr. 1.

Smith, William H., East Molesey, England. Symmetrical flue boiler with central firebox and offset magazine. 2,591,627, Apr. 1.

Snelling, Walter O., Allentown, Pa. Apparatus for the dry development of diazotype photographic paper. 2,590,899, Apr. 1.

Snyder, Jacob R., assignor to Thompson Products, Inc., Cleveland, Ohio. Selector valve. 2,591,102, Apr. 1.

Snyder, Robert A., Marion, Mass., assignor to New Bedford Cordage Company. Rope composed of natural and synthetic fibers. 2,591,628, Apr. 1.

Societe Anonyme dite; Societe des Piles Wonder, assignee: *See*—
Héraud, André.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Manilych, Samuel, and Lambert.
Penick, Joe E.

Sommerstein, Cwi, New York, N. Y. Ampoule. 2,590,900, Apr. 1.

Sorensen, Andrew J., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Inductive train communication system. 2,591,022, Apr. 1.

Sorg, Earl H.: *See*—
Bomhardt, Warren C., and Sorg.

Sowell, Luther E., Iredell, Tex. Lever actuated spring assembling hand vise. 2,591,210, Apr. 1.

Spalding, Kenneth F., Lodi, N. J., assignor to W. F. Stahl, Kenilworth, Ill. Plastic-sealing element. 2,591,383, Apr. 1.

Spalding, Richard O., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Duplex divisible carton. 2,591,629, Apr. 1.

Spencer, Burdell D., Oxon Hill, Md., assignor to the United States of America as represented by the Secretary of the Army. Adjustable shoe. 2,591,211, Apr. 1.

Sperry Corporation, The, assignee: *See*—
Curry, Robert S., Jr.
Lancor, Joseph H., Jr.

Sperry-Sun Well Surveying Company, assignee: *See*—
Butterworth, Gilbert J.
Cabaniss, Bert A.

Spitzer, William C.: *See*—
Walton, William T., and Spitzer.

Sprague Electric Company, assignee: *See*—
Brooks, Lester A., Markarian, and Nazzewski.
Ross, Sidney D.

Springford, Vernon H., assignor of one-third to Sherman B. Daugherty, Evansville, Ind. Kitchen press. 2,591,311, Apr. 1.

Sproule, Lorne W., and L. F. King, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company. Brick grease composition. 2,591,630, Apr. 1.

Spurlock, James J., Denton, Tex. 5-substituted-5-(2-thienyl) hydantoins. 2,591,103, Apr. 1.

Stahl, William F., assignee : *See*—
Spalding, Kenneth F.

Standard Oil Development Company, assignee : *See*—
Betts, Joseph L., Jr., and Chaney.
McDermott, John P.
Moody, Leonard E., and Hand.
Morway, Arnold J., and Matuszak.
Ogorzaly, Henry J.
Parks, Mercer H.
Sproule, Lorne W., and King.
Young, David W.

Stanitski, Walter A., Chester, Pa. Vehicle wheel assembly. 2,591,631, Apr. 1.

Stanley, Herbert M. : *See*—
Powell, Roger F., and Stanley.

Stark, Henry M. : *See*—
Bechtold, Max F., and Stark.

Staudinger, Johann J. P. : *See*—
Faulkner, Donald, and Staudinger.

Stauffer, Bernard H., Los Angeles, Calif. Leg and ankle massage table apparatus. 2,591,212, Apr. 1.

Stavoe, Arthur M., Chicago, and W. D. Carrie, Lisle, assignors to Crane Co., Chicago, Ill. Waste outlet crossbar. 2,591,632, Apr. 1.

Stees, Joseph H., Freeport, Ill. Extensible draft tongue for trailers and the like. 2,591,312, Apr. 1.

Stein, Gustav A., Plainfield, N. J., and J. R. Stevens, Easton, Pa., assignors to Merck & Co., Inc., Rahway, N. J. Producing alpha-(metalloformyl)-beta-alkoxy-propionic acid esters. 2,591,313, Apr. 1.

Stelmach, Raymond C., Harvey, Ill. Device for safety checking the alignment of patterns. 2,591,314, Apr. 1.

Stephansen, Erik, Bestun, near Oslo, assignor, by mesne assignments, to O. Imset, Bestun, Oslo, Norway. Benting apparatus. 2,591,633, Apr. 1.

Stephanus, Hendricus, Haarlem, and J. Rinse, Overveen, assignors to J. Rinse and W. Dorst, Haarlem, Netherlands. Alkali treatment of agave and manila hemp fibers to produce flexible fibers. 2,591,315, Apr. 1.

Stephenson, Hugh M., Fort Wayne, Ind. Musical instrument. 2,591,023, Apr. 1.

Stevens, Donald R., Wilkinsburg, and R. S. Bowman, assignors to Gulf Research & Development Company, Pittsburgh, Pa. Production of tri- and tetra-isobutylene. 2,591,384, Apr. 1.

Stevens, Joseph R. : *See*—
Stein, Gustav A., and Stevens.

Stine, Paul J., assignee : *See*—
Keef, Leard M.

Stinson, John M. : *See*—
Stout, Edgar L., Scott, and Stinson.

Stoffel Seals Corporation, assignee : *See*—
Nierhaus, Henry.

Stolaroff, E. Manuel, assignee : *See*—
Gordon, Don.

Stolp, William J. : *See*—
Rowe, Oliver R., Schoeneck, and Stolp.

Stone, Nathan M., Chicago, Ill. Receptacle. 2,591,104, Apr. 1.

Stout, Edgar L., Sheffield, W. C. Scott, Jr., Florence, and J. M. Stinson, Sheffield, Ala., assignors to Tennessee Valley Authority. Production of lightweight aggregate from molten slag. 2,590,901, Apr. 1.

Stout, Edgar L., Sheffield, W. C. Scott, Jr., Florence, and J. M. Stinson, Sheffield, Ala., assignors to Tennessee Valley Authority. Production of lightweight aggregate from molten slag. 2,590,902, Apr. 1.

Straty, Stephen, assignor to Kilbourn Engineering Company, Milwaukee, Wis. Stud stamping machine. 2,591,473, Apr. 1.

Strauss, Kossy, and R. F. Boddey, assignors to Foundry Services Limited, Nechells, Birmingham, England. Exothermically reacting sleeve for risers. 2,591,105, Apr. 1.

Stretz, Lawrence A., Boonville, Mo. Combination spark screen and draught curtain for fireplaces. 2,590,903, Apr. 1.

Struthers, Donald K., and G. W. Schroeder, Des Moines, Iowa, assignors to Harry Ferguson, Inc., Detroit, Mich. Tractor hoist. 2,591,662, Apr. 1.

Strutt, Maximiliaan J. O., A. Van der Zeil, and K. S. Knol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for producing an oscillatory circuit tuned to an ultrahigh frequency. 2,591,316, Apr. 1.

Stupin, Peter J., Montebello, and L. Adams, Maywood, assignors to Calavo, Inc., Los Angeles, Calif. Hydrating dates. 2,591,213, Apr. 1.

Stutsman, Paul W., Needham, assignor to Raytheon Manufacturing Company, Newton, Mass. Cold cathode discharge device. 2,591,474, Apr. 1.

Sulik, Mauricio : *See*—
Krasñansky, Natalio, Sulik, Eliscovich, and Levy.

Sullinger, Francis E., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Timber setting machine. 2,591,475, Apr. 1.

Sun Oil Company, assignee : *See*—
Barnes, William E.
Bartow, Lewis F.
Johnson, Herbert L., and Bondhus.
Long, Alfred B.
Quist, Harold A.

Sunbeam Corporation, assignee : *See*—
Jepson, Ivar.

Sunderhauf, Frederick A., Summit, N. J. Treating selvage edges of textile sheet material. 2,591,385, Apr. 1.

Surface Combustion Corporation, assignee : *See*—
Nesbitt, John D., and Schramm.

Surfus, Kenneth L. : *See*—
Delsman, Quirin C., and Surfus.

Sutherland, Daniel M., Morrisville, Pa., assignor to L. M. and D. G. Sutherland, trustees. Making paper pulps. 2,591,106, Apr. 1.

Sutherland, Douglas G., trustee, assignee : *See*—
Sutherland, Daniel M.

Sutherland, Lionel M., trustee, assignee : *See*—
Sutherland, Daniel M.

Swanson, Alfred J., Hollywood, Calif. Hinged closure control. 2,591,476, Apr. 1.

Swanton, John R., Jr. : *See*—
Latham, Allen, Jr., and Swanton.

Swartz, Joseph N. : *See*—
Tomlinson, George H., and Swartz.

Sweitzer, Carl W., Garden City, assignor to Columbian Carbon Company, New York, N. Y. Carbon black pelleting process. 2,591,024, Apr. 1.

Swerdlow, Nathan, Philadelphia, and G. G. Abel, Media, Pa., assignors to General Electric Company. Insulated sectionalized bus duct system. 2,591,386, Apr. 1.

Swindell-Dressler Corporation, assignee : *See*—
Pugsley, Hugh J.

Sykes, Charles : *See*—
Kirkby, Henry W., and Sykes.

Sylvania Electric Products Inc., assignee : *See*—
Titus, Charles L., and Barrett.

Sylvester & Company, assignee : *See*—
Schoenlaub, Robert A.

Taat, Willem J., and R. W. V. Korndorffer, Delft, assignors to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, ten behoeve van Nijverheid, Handel en Verkeer, The Hague, Netherlands. Preparation of rapidly hardening cast resins from phenol and formaldehyde and tension-free castings prepared therefrom. 2,591,634, Apr. 1.

Tamarin, Bernard J., Flourtown, Pa. Vacuum cleaner with detachable reel-and-handle unit. 2,591,214, Apr. 1.

Tapp, Ernest T. J., and J. Davey, Fleet, assignors to County Commercial Cars Limited, Aldershot, England. Clutch mechanism. 2,591,635, Apr. 1.

Taub, William L., Bronx, N. Y. Garment hanger attachment. 2,591,387, Apr. 1.

Taylor Fibre Co., assignee : *See*—
Muller, George J.

Tegarty, John B., Mentor, assignor to T. R. Zettelmeyer, Willoughby, Ohio, as trustee. Plastic clothespin. 2,591,477, Apr. 1.

Tennessee Valley Authority, assignee : *See*—
Stout, Edgar L., Scott, and Stinson.

Texas Company, The, assignee : *See*—
Simon, Richard M.
Tierney, William T., Jr., and Davis.

Textile and Chemical Research Company Limited, assignee : *See*—
Drisch, Nicolas, and Brepson.
Drisch, Nicolas, and Herrbach.
Roatta, Edouard, and Peyssonneaux.

Textile Machine Works, assignee : *See*—
Jeffrey, Montroy.

Thiel, Arthur E., Dinuba, Calif. Serving table with rotatable center. 2,591,215, Apr. 1.

Tholl, John E., Needham, assignor to American Tool & Machine Co., Boston, Mass. Safety mechanism for centrifugal separators. 2,591,317, Apr. 1.

Thompson, Floyd O., Sedro Woolley, Wash. Pivoted-jaw wrench having nut-actuated and slidable cam-wedge. 2,591,636, Apr. 1.

Thompson Products, Inc., assignee : *See*—
Snyder, Jacob R.

Thompson, Robert E., assignor to Des Moines Glove & Mfg. Company Inc., Des Moines, Iowa. Golf bag. 2,591,217, Apr. 1.

Thompson, Robert H., and H. Harvey, Los Angeles, Calif., assignors, by mesne assignments, to United States Steel Company. Valve operating mechanism. 2,591,216, Apr. 1.

Thurston, Jack T., Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y. Guanide-formaldehyde condensation products for tanning and bleaching leather. 2,591,218, Apr. 1.

Tierney, William T., Jr., Hopewell Junction, and C. W. Davis, Jr., Fishkill, assignors to The Texas Company, New York, N. Y. Combination spark-glow plug. 2,591,025, Apr. 1.

Tilley, Aubra E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Automatic volume control circuit. 2,591,637, Apr. 1.

Times Facsimile Corporation, assignee : *See*—
Cooley, Austin G.

Timken-Detroit Axle Company, The, assignee : *See*—
Keese, Beverly W.

Titus, Charles L., South Hamilton, and E. W. Barrett, Danvers, assignors to Sylvania Electric Products Inc., Salem, Mass. Apparatus for inserting support wires in lamp stems. 2,590,904, Apr. 1.

Tomeo, John J., Queens Village, N. Y. Adjustable mirror bracket. 2,591,318, Apr. 1.

Tomlinson, George H., Montreal, Quebec, and J. N. Swartz, Cornwall, Ontario, assignors to Canada Paper Company, Montreal, Quebec, Canada. Apparatus for concentrating residual pulp liquor by direct contact with flue gases. 2,590,905, Apr. 1.

Touton, Rush D., Wynnewood, assignor to Wurton Machine Company, Philadelphia, Pa. Method and apparatus for wetting baled tobacco. 2,591,026, Apr. 1.

Tow, James O., Huntington Park, assignor to McCullough Tool Company, Los Angeles, Calif. Casing perforating gun. 2,591,319, Apr. 1.

Trafton, Raymond E., Paton, Iowa. Line carrier. 2,591,638, Apr. 1.

Trahan, Leo J., Cohoes, N. Y. Apparatus for forming corners. 2,591,320, Apr. 1.

Transducer Corporation, assignee : *See*—
Carter, Elbert P., and Hammel.

Traylor, Samuel W., Jr., Allentown, Pa. Jaw type crusher. 2,591,639, Apr. 1.

Tredget, Cyril A. : *See*—
Roffey, William A., and Tredget.

Treesdale Laboratories and Textile Processing Company, assignee : *See*—
McCarthy, James F.
Webster, Paul F.

Tribble, William H., East Moriches, N. Y., assignor, by mesne assignments, to Jefferson Standard Broadcasting Company. Electrode arrangements for facsimile recorders. 2,591,640, Apr. 1.

Tripp, Kenneth F., Tuckahoe, N. Y., assignor to Farrand Optical Co., Inc. Reflection interference filter. 2,590,906, Apr. 1.

Tri-State Engineering Company, assignee : *See*—
Coit, Burton C., Jr.

Trist, Ronald, & Co. Limited, assignee : *See*—
Clarke, Alfred G.

Troendlé, Jean, Geneva, Switzerland. Pneumatic installation. 2,591,641, Apr. 1.

Trotter, John C., Burlington, Vt., assignor to Bell Aircraft Corporation, Wheatfield, N. Y. Garbage disposer. 2,591,388, Apr. 1.

Troy, Max, New York, N. Y. Machine for drying and fluffing flatwork laundry. 2,591,321, Apr. 1.

Tulagin, Vsevolod, Phillipsburg, N. J., and R. F. Coles, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Nondiffusing color formers comprising aryl J-acids in which the aryl radical is provided with a nondiffusing group. 2,591,642, Apr. 1.

Tunnicliff, Eustace : *See*—
Richardson, Arthur B. F. G., Tunnicliff, and Fisher.

Turnbull, Frederick M., assignee : *See*—
Brown, Frank E.

Turner, Charles W., Columbia, Mo., and E. P. Reineke, East Lansing, Mich., assignors to American Dairies Incorporated, Kansas City, Mo., and The Quaker Oats Company, Chicago, Ill. Making a thyroprotein feed. 2,591,107, Apr. 1.

Turner, John B., Jr., Richmond, Calif. Mass rate flowmeter. 2,591,478, Apr. 1.

Turnes, Angel N., Bronx, N. Y. Lip rouge applicator. 2,591,027, Apr. 1.

Uber, Daniel W. : *See*—
Saff, Adrian F., and Uber.

Udy, Ray, Lapwai, Idaho. Harrow attachment for tractors. 2,591,028, Apr. 1.

Ulfstedt, Torsten L. : *See*—
Simonsson, Hans L., and Ulfstedt.

United Aircraft Corporation, assignee : *See*—
Anderson, Bror G.
Caldwell, Frank W.
Kalitinsky, Andrew.

United States Atomic Energy Commission, United States of America as represented by the, assignee : *See*—
Borkowski, Casimer J., and Fairstein.
Farnsworth, Hugh D.

United States Steel Company, assignee : *See*—
Thompson, Robert H., and Harvey.

Universal Oil Products Company, assignee : *See*—
Bloch, Herman S., and Wackher.

Universal Wire Spring Company, The, assignee : *See*—
Blumensaadt, Svend G.
Neely, William H.

Van der Plas, Frederik, Bandoeng, Netherlands. Coin water meter. 2,591,029, Apr. 1.

Van der Ziel, Aldert : *See*—
Strutt, Maximiliaan J. O., van der Ziel, and Knol.

Van 't Spijker, Peter : *See*—
Engel, Willem F., and van't Spijker.

Van Tuyl, Thomas, and F. Ackermann, Chicago, Ill., assignors, by mesne assignments, to W. R. Donaldson, Northport, N. Y. Sewing machine. 2,590,907, Apr. 1.

Varma, Jyoti P. : *See*—
Siddiqui, Salimuzzaman, Sarin, and Varma.

Versoy, Irving R., assignor to The Berger Brothers Company, New Haven, Conn. Solenoid-operated valve structure. 2,591,030, Apr. 1.

Vickers-Armstrongs Limited, assignee : *See*—
Nasmith, John I.

Vickers, Incorporated, assignee : *See*—
Rau, David W.

Vigneault, Oswald R., and D. M. Small, assignors to Production Tool and Die Co., Inc., Springfield, Mass. Die apparatus. 2,591,108, Apr. 1.

Vincent "H. R. D." Company Limited, assignee : *See*—
Vincent, Philip C.

Vincent, Philip C., assignor to Vincent "H. R. D." Company Limited, Stevenage, England. Driving unit for motor vehicles. 2,591,219, Apr. 1.

Virkotype Corporation, assignee : *See*—
Berndt, Richard F.

Vogt, Edward : *See*—
Jost, John A., and Vogt.

Vokes Limited, assignee : *See*—
Ringe, Donald F.

Volmer, Joseph, Huntley, Ill. Fertilizer separator for barns and like structures. 2,591,643, Apr. 1.

Volpin, Alexander S., and J. P. Smith, Houston, Tex. Lubricated plug valve. 2,591,031, Apr. 1.

Wackher, Richard C. : *See*—
Bloch, Herman S., and Wackher.

Wade, James O., Adrian, assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich. Refrigerant evaporator. 2,591,109, Apr. 1.

Wadsworth, Howard M., Liverpool, N. Y. Variable electrical condenser. 2,591,644, Apr. 1.

Waldorf Paper Products Company, asignee : *See*—
Guyer, Reynolds.

Walker, Albert C., Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Growing ethylenediamine tartrate crystals. 2,591,032, Apr. 1.

Wallace, Richard A., Merion, Pa. Chuck. 2,591,389, Apr. 1.

Walley, James A., Fort Wayne, Ind., assignor to General Electric Company. Motor control system. 2,591,390, Apr. 1.

Walsh, Michael E., Des Moines, Iowa. Fishing lure. 2,591,391, Apr. 1.

Walter, Henry A., Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Pinacolone peroxide. 2,591,645, Apr. 1.

Walter, Jules G. : *See*—
Cohn, Samuel, Walter, and Cohn.

Walters, Leonard J. : *See*—
Douglas, Alvin P., and Walters.

Walton, William T., and W. C. Spitzer, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio. Stabilized ready mixed aluminum coating composition. 2,591,646, Apr. 1.

War, United States of America as represented by the Secretary of, assignee : *See*—
Harvey, Earle M.

Ward, Herbert K., Birmingham, assignor to Parker Rust Proof Company, Detroit, Mich. Method of and solution for coating surfaces chiefly of zinc. 2,591,479, Apr. 1.

Warnecke, Robert, Paris, France, assignor to Compagnie Generale De Telegraphie Sans Fil. Generator of ultrashort electromagnetic waves. 2,591,322, Apr. 1.

Warren, Horace G. : *See*—
Black, Judd H., and Warren.

Washburn, Grady S., Macon, Ga. Apparatus for forming candy bars and inserting sticks therein. 2,591,033, Apr. 1.

Washington Instiute of Technology, assignee : *See*—
Pear, Charles B., Jr.

Watts, Daniel M., and H. P. Brown, assignors to American Forging and Socket Company, Pontiac, Mich. Adjustable seat support. 2,591,480, Apr. 1.

Weatherhead Company, The, assignee : *See*—
Baldwin, John D., Jr., and Wyss.
Courtot, Louis B.

Webb, George H., assignor of one-half to Desoutter Brothers Limited, London, England. Power-operated impact wrench. 2,591,323, Apr. 1.

Webster-Chicago Corporation, assignee : *See*—
Dale, Colin B.

Webster, Paul F., Mars, Pa., assignor, by mesne assignments, to Treesdale Laboratories and Textile Processing Company. Spongious cleaning device. 2,591,481, Apr. 1.

Weikert, Roy J., assignor to The Joseph Lincoln Manufacturing Company, Inc., Covington, Ohio. Hat cover with perforated brim. 2,591,324, Apr. 1.

Weiser, Earnest F., Erie, Pa., assignor to General Electric Company. Temperature control device. 2,591,392, Apr. 1.

Weisler, Leonard, assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Treatment of isomeric ester mixtures. 2,591,110, Apr. 1.

Welch, Nicholas A., West Hartford, assignor to The American Hardware Corporation, New Britain, Conn. Latch. 2,591,647, Apr. 1.

Welch, William W., assignee : *See*—
Fukal, Alfred F.

Wells Company, Inc., The, assignee : *See*—
Wells, Robert D.

Wells, Robert D., Seattle, assignor to The Wells Company, Inc., Kirkland, Wash. Block molding machine. 2,590,908, Apr. 1.

Welter, Grover C., Roswell, N. Mex. Cattle guard. 2,591,220, Apr. 1.

Weitlich, Robert T., assignor of one-half to A. E. Braun, Wooster, Ohio. Paint can splash protector. 2,591,482, Apr. 1.
West, Albert J., Oglesby, Ill., assignor to General Time Corporation, New York, N. Y. Progressive tool and improved method of progressively forming articles from strip stock or the like. 2,591,483, Apr. 1.
Westby, Walter P., and M. P. Hanson, Minneapolis, Minn.; said Westby assignor to said Hanson. Vegetable cutter. 2,590,909, Apr. 1.
Western Electric Company, Incorporated, assignee: *See*—
Brink, Earle H.
Browder, Lewis B.
Brown, Grant S.
Kane, John T.
Kraay, Robert A., and Larsen.
McCollum, Thomas A.
Westinghouse Air Brake Company, assignee: *See*—
Bent, Arthur J.
Blosser, Herman G.
Martin, Paul N.
Rowand, Howard C.
Sorensen, Andrew J.
Williams, Samuel L., and Rush.
Young, Henry S.
Westinghouse Electric Corporation, assignee: *See*—
Brandt, Weldon H., Rider, and Westphal.
Carlson, Leonard H.
Hazeltine, Alan.
Westphal, Raymond C.: *See*—
Brandt, Weldon H., Rider, and Westphal.
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill. Arrangement for desensitizing high-frequency electrical-wave apparatus. 2,591,484, Apr. 1.
White, Paul W., and J. J. Schutz, New Haven, Conn., assignors to Parva Products Company, Chicago, Ill. Buckle. 2,591,648, Apr. 1.
White, William C., Schenectady, N. Y., assignor to General Electric Company. Leak detector. 2,591,485, Apr. 1.
Whitehill, Ralph R., Oildale, Calif. Fluid clutch for hoisting drums. 2,591,325, Apr. 1.
Whiteley, Robert H., assignor to Randall Graphite Products Corporation, Chicago, Ill. Side mount pillow block bearing. 2,591,221, Apr. 1.
Whiteley, Robert H., Oak Park, assignor to Randall Graphite Products Corporation, Chicago, Ill. Pillow block bearing and mounting therefor. 2,591,222, Apr. 1.
Whiting, Bradford C., Poughkeepsie, assignor to International Business Machines Corporation, New York, N. Y. Wire former and stripper. 2,591,649, Apr. 1.
Whyte, Leland M.: *See*—
Schriner, Russell M., O. L., and Whyte.
Wico Electric Company, assignee: *See*—
Harmon, Kenneth A., and Guernsey.
Wild-Barfield Electric Furnaces Limited, assignee: *See*—
Haywood, Frederick W., and Laidler.
Wild, Norman R., East Natick, assignor to Raytheon Manufacturing Company, Newton, Mass. Broad-banded termination for electromagnetic wave transmission systems. 2,591,223, Apr. 1.
Wilkinson, William C., Jr., Princeton, N. J., assignor to Radio Corporation of America. Electromagnetic horn antenna. 2,591,486, Apr. 1.
Willett, Leon E., and R. G. Baker, assignors to Chamberlin Company of America, Detroit, Mich. Key operated lock mechanism. 2,591,111, Apr. 1.
Williams, John C., Slough, assignor to High-Pressure Components Limited, London, England. Coupling for flexible pipes. 2,591,326, Apr. 1.
Williams, Rollo G., Grantchester, England. Control means for color lighting. 2,591,650, Apr. 1.
Williams, Samuel L., New York, N. Y., and J. W. Rush, Wilkinsburg, Pa., assignors to Westinghouse Air Brake Company. Fluid pressure brake equipment. 2,591,224, Apr. 1.
Willson Products, Inc., assignee: *See*—
Hoffmaster, George R.
Wilmot, Francis A.,: *See*—
Hansen, James P., and Wilmot.
Wilson, Bert, Dallas, Tex., assignor to Andrew Brown Company, Los Angeles, Calif. Mixing scale. 2,591,034, Apr. 1.
Wilson & Co., Inc., assignee: *See*—
Cleary, Leo P., and Farr.
Wilson, Harvey A., Brazoria, Tex. Offshore platform. 2,591,225, Apr. 1.
Wilson-Jones Co., assignee: *See*—
Segal, Samuel.
Wirz, Ernst, Zurich, Switzerland. Draw hook with lock cap for trailers. 2,591,487, Apr. 1.
Wittcoff, Harold, and J. R. Roach, Minneapolis, Minn., assignors to General Mills, Inc. Rosin acid esters. 2,590,910, Apr. 1.
Wittcoff, Harold, Minneapolis, Minn., assignor to General Mills, Inc. Partial esters. 2,590,911, Apr. 1.
Witter, Lawrie L., Newton Highlands, and O. R. Deckert, Newtonville, Mass. Educational device. 2,591,327, Apr. 1.
Wolfset, I. B., & Co., assignee: *See*—
Saito, Haruhiro.
Woodworth, N. A., Company, assignee: *See*—
Hohwart, George and E. F.
Wuergler, Jakob: *See*—
Schmid, Max, Danuser, Johner, Moser, and Wuergler.
Wurton Machine Company, assignee: *See*—
Touton, Rush D.
Wyss, Frederic D.: *See*—
Baldwin, John D., Jr., and Wyss.
Yanik, John, Detroit, Mich. Honeycomb. 2,591,328, Apr. 1.
Yarber, Clifford J., Holyoke, Mass., assignor to A. M. Meincke & Son, Inc. Cold swelling starch process. 2,590,912, Apr. 1.
Yost, Lloyd, San Gabriel, Calif., assignor of one-half to A. O. Smith Corporation, Milwaukee, Wis., and one-half to California Research Corporation, San Francisco, Calif. Balanced turbodrill. 2,591,488, Apr. 1.
Young, David W., Roselle, N. J., assignor to Standard Oil Development Company. Stabilized organic compositions containing bis(hydroxy alkoxy phenyl) alkanes. 2,591,651, Apr. 1.
Young, Henry S., Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company. Traffic protection apparatus. 2,591,035, Apr. 1.
Young, Henry S., Wilkinsburg, Pa., assignor to Westingbouse Air Brake Company. Block indicator for centralized traffic control systems. 2,591,036, Apr. 1.
Youngstown Steel Door Company, The, assignee: *See*—
Ditchfield, Frank.
Zalfert, Sidney, assignee: *See*—
Gershen, Irvin J.
Zaleski, John F., Queens Village, N. Y., assignor to General Precision Laboratory Incorporated. Microwave measuring instrument. 2,591,329, Apr. 1.
Zens, Pierre M. F.: *See*—
Honnoré, Michel A. J. and Zens.
Zettelmeyer, T. R., trustee, assignee: *See*—
Tegarty, John B.
Ziegliss, Peter, Bronx, N. Y. Two-piece key. 2,591,652, Apr. 1.
Zivny, Joseph C.: *See*—
Pellar, Fred, and Zivny.
Zwierzynski, Alex, Bronx, assignor to H. Hyman, New York, N. Y. Vest pocket flashlight, including electric system and lock subassembly. 2,591,112, Apr. 1.

LIST OF DESIGN INVENTIONS

Air diffusing outlet for ventilating systems. F. J. Kurth. 166,322–4, Apr. 1.
Bird perch and mirror, Combined. L. Moon. 166,334, Apr. 1.
Box or similar article, Ring. R. L. Chipman, Jr. 166,298, Apr. 1.
Box, Watch. F. E. Blod and A. M. Blumenfeld. 166,295, Apr. 1.
Brooch or similar article. A. Philippe. 166,339–41, Apr. 1.
Brooch or similar article. A. Philippe. 166,346–9, Apr. 1.
Brooch or the like. A. Philippe. 166,351–2, Apr. 1.
Brooch or the like. A. Philippe. 166,355, Apr. 1.
Brooch or the like, Separable. A. Katz. 166,319, Apr. 1.
Cabinet, Dispensing. M. Harrison. 166,310, Apr. 1.
Cabinet, Radio. S. E. Adler. 166,290–1, Apr. 1.
Cabinet, Refrigerator. J. H. Walter. 166,367, Apr. 1.
Cap. E. Kairalla. 166,317, Apr. 1.
Cap or the like. C. O. Todd. 166,366, Apr. 1.
Cart for a golf bag. A. C. Grant. 166,308, Apr. 1.
Clock or similar article. R. H. Jahncke. 166,314, Apr. 1.
Clockcase. L. I. Bruce. 166,297, Apr. 1.
Confection, Frozen. L. H. Baier. 166,293, Apr. 1.
Control knob, Rotatable. H. E. Anthony. 166,292, Apr. 1.
Cup. E. C. Hense. 166,311, Apr. 1.
Dispenser for slender articles. G. H. Severin. 166,357, Apr. 1.
Display unit, Wine. J. Siegel. 166,361, Apr. 1.
Ear protector against heat and air from hair driers. J. Hussey. 166,313, Apr. 1.
Golf club putter head. T. S. Park. 166,337, Apr. 1.
Handbag or similar article. M. A. Spector. 166,362, Apr. 1.
Hanukkah Menorah. N. Shain. 166,358, Apr. 1.
Heater and blower unit, Portable. R. M. Sherman. 166,359, Apr. 1.
Lacing hook for shoes or similar articles. W. A. Maring. 166,328, Apr. 1.
Lamp. J. Juergens. 166,316, Apr. 1.
Light, Safety. R. T. Holland. 166,312, Apr. 1.
Lighting fixture. P. D. Wilson. 166,370, Apr. 1.
Mold or similar article, Hamburger. G. W. Thorward. 166,365, Apr. 1.
Necklace or the like. A. Katz. 166,318, Apr. 1.
Necklace or the like. A. Philippe. 166,342–5, Apr. 1.
Necklace or the like. A. Philippe. 166,350, Apr. 1.
Necklace or the like. A. Philippe. 166,353–4, Apr. 1.
Ornament or the like, Hat. A. Dispensa. 166,301, Apr. 1.
Picture frame. J. M. McConnell. 166,331, Apr. 1.
Plate or similar article, Dinner. C. W. Leigh. 166,325–6, Apr. 1.
Plate or similar article, Dinner. E. M. Otis. 166,336, Apr. 1.
Rack for food products. R. K. Gibbs. 166,307, Apr. 1.
Radio receiver. G. A. Beck. 166,294, Apr. 1.
Radio receiver. R. Montmeat. 166,333, Apr. 1.
Regulator, Pressure. J. L. Matasovic. 166,329–30, Apr. 1.
Ring, Finger. H. Frackman. 166,306, Apr. 1.
Ring, Finger. R. C. Haltom. 166,309, Apr. 1.
Sets of coasters and package therefor or similar article, Combined. P. E. Wenander. 166,368, Apr. 1.
Shoehorn and comb, Combined. K. P. Janoff. 166,315, Apr. 1.
Shorts. T. B. Terry. 166,363, Apr. 1.
Sign, Illuminable. J. Morgan. 166,335, Apr. 1.
Smoker's accessory. E. L. White. 166,369, Apr. 1.
Spoon. C. J. Lind. 166,327, Apr. 1.
Spoon or other article of flatware. R. L. Doerfler. 166,302, Apr. 1.
Spot welder. C. Eisler. 166,303, Apr. 1.
Table. P. C. Curtis. 166,300, Apr. 1.
Table. C. C. Shinn. 166,360, Apr. 1.
Table or similar article. W. B. Petzold. 166,338, Apr. 1.
Television reminder. G. D. Thornton. 166,364, Apr. 1.
Tool, Combined garden cultivating and measuring. J. J. and E. G. Melich. 166,332, Apr. 1.
Tool, Surface cleaning. J. J. Falls. 166,304–5, Apr. 1.
Toy figure, Animated. A. Kent. 166,321, Apr. 1.
Tray. J. A. Potchen. 166,356, Apr. 1.
Vending station, Combined food and beverage. C. M. Kemper. 166,320, Apr. 1.
Ventilator for heating and air conditioning, Ceiling. J. R. Corbett. 166,299, Apr. 1.
Wall bracket, Lighting fixture. J. W. Brooks. 166,296, Apr. 1.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accounting machine, Electronic. C. F. Rench. 2,591,007, Apr. 1.
Adjustable mirror bracket. J. J. Tomeo. 2,591,318, Apr. 1.
Adjustable seat support. D. M. Watts and H. P. Brown. 2,591,480, Apr. 1.
Adjustable thread ring gauge. G. and E. F. Hohwart. 2,591,433, Apr. 1.
Adjustment for tractor mounted scoop type ditchers. W. E. Morgan. 2,591,278, Apr. 1.
Aeration of liquids, Method of and an apparatus for the. S. A. Canarils, 2,591,134, Apr. 1.
Air-brush holder. L. E. Goebel. 2,591,349, Apr. 1.
Aircraft turbine-propeller control system. F. W. Caldwell. 2,590,932, Apr. 1.
Air filter. O. L. Allen. 2,591,490, Apr. 1.
Airp'ane safety device. M. V. Pilcher. 2,591,602, Apr. 1.
Aliphatic nitriles, Production of. A. F. MacLean and D. E. Pickart. 2,590,986, Apr. 1.
Alkali treatment of agave and manila hemp fibers to produce flexible fibers. H. Stephanus and J. Rinse. 2,591,315, Apr. 1.
Alkylation of isoparaffins with isomerized olefins. S. H. McAllister. 2,591,367, Apr. 1.
Alkyl lead compounds, Manufacture of. G. Calingaert and H. Shapiro. 2,591,509, Apr. 1.
Alloy steels. H. W. Kirkby and C. Sykes. 2,590,835, Apr. 1.
Allylated trimethylene trisulfones. A. E. Smith. 2,591,020, Apr. 1.
Alpha-(metallo-formyl)-beta-alkoxy-propionic acid esters, Producing. G. A. Stein and J. R. Stevens. 2,591,313, Apr. 1.
Alumina hydrate sols, Producing. M. F. Bechtold and H. M. Stark. 2,590,833, Apr. 1.
Alumina values, Production of. W. A. James. 2,591,436, Apr. 1.
Aluminum coating composition, Stabilized ready mixed. W. T. Walton and W. C. Spitzer. 2,591,646, Apr. 1.
Aluminum paste pigment. J. D. Edwards. 2,591,245, Apr. 1.
Amplifier, Coincidence. H. D. Farnsworth. 2,591,247, Apr. 1.
Amplifier, Cold cathode gas tube. H. Jacobs and J. R. Martin. 2,590,863, Apr. 1.
Amplifier with synchronized chopper and rectifier with phase sense, Direct current. G. Ellis. 2,591,345, Apr. 1.
Ampoule. C. Sommerstein. 2,590,900, Apr. 1.
Antenna construction, Television. M. C. Rosenthal. 2,591,297, Apr. 1.
Antenna, Electromagnetic horn. W. C. Wilkinson, Jr. 2,591,486, Apr. 1.
Antifouling anchor. C. F. Christie. 2,591,236, Apr. 1.
Antiskid device. J. Sampogna. 2,591,300, Apr. 1.
Apparatus for aging meats and storing vegetables. H. H. McAdam. 2,591,178, Apr. 1.
Apparatus for casehardening drill rods. R. H. Davis. 2,591,339, Apr. 1.
Apparatus for cleaning filters. D. F. Ringe. 2,591,198, Apr. 1.
Apparatus for concentrating residual pulp liquor by direct contact with flue gases. G. H. Tomlinson and J. N. Swartz. 2,590,905, Apr. 1.
Apparatus for covering electric conductors and cable cores with rubber or similar material. A. B. F. G. Richardson, E. Tunnicliff, and I. K. Fisher. 2,591,608, Apr. 1.
Apparatus for determining the solidifying temperatures of vapors dispersed in gases. A. B. Martin. 2,591,084, Apr. 1.
Apparatus for dipping articles in liquid. R. A. Kraay and E. W. Larsen. 2,591,557, Apr. 1.
Apparatus for electrolytic treatment of spaced metallic elements. H. Berman and R. I. Prupis. 2,591,042, Apr. 1.
Apparatus for feeding labels or blanks. W. A. Roffey and C. A. Tredget. 2,591,199, Apr. 1.
Apparatus for filling liquid containers having vertically adjustable tank and constant level valves. L. G. Huggins and W. H. Bulcao. 2,591,071, Apr. 1.
Apparatus for forming candy bars and inserting sticks therein. G. S. Washburn. 2,591,033, Apr. 1.
Apparatus for forming corners. L. J. Trahan. 2,591,320, Apr. 1.
Apparatus for handling tubular textile fabrics. S. Cohn, J. G. Walter, and E. Cohn. 2,590,938, Apr. 1.
Apparatus for inserting support wires in lamp stems. C. L. Titus and E. W. Barrett. 2,590,904, Apr. 1.
Apparatus for measuring high pressures. C. G. Hård af Segerstad and J.-E. Magnusson. 2,591,255, Apr. 1.
Apparatus for positioning a rotary controlled element. H. F. Elliott. 2,591,413, Apr. 1.
Apparatus for positioning rotary controlled elements. H. F. Elliott. 2,591,344, Apr. 1.
Apparatus for producing an embossed coating on sheet materials. M. W. Ditto and R. H. Hugger. 2,591,240, Apr. 1.
Apparatus for producing refractory rods. R. H. Lester, M. C. Cannon, and F. C. Alexander, Jr. 2,591,561, Apr. 1.
Apparatus for production analysis. E. A. Boyan. 2,591,124, Apr. 1.
Apparatus for recovering the inorganic content of concentrated waste liquor. N. E. Nilsson. 2,591,188, Apr. 1.
Apparatus for refrigerating enclosures. A. Latham, Jr. and J. R. Swanton, Jr. 2,591,168, Apr. 1.
Apparatus for separating and cleaning potatoes. W. T. Pfister. 2,591,194, Apr. 1.
Apparatus for setting pins. H. C. Luebbert. 2,591,450, Apr. 1.
Apparatus for the catalytic conversion of hydrocarbons. G. F. Kuhn. 2,590,980, Apr. 1.
Apparatus for the control of respiration, resuscitation and anaesthesia. J. H. Blease. 2,591,120, Apr. 1.
Apparatus for the dry development of diazotype photographic paper. W. O. Snelling. 2,590,899, Apr. 1.
Apparatus for vacuum sealing of containers. P. Schoemann. 2,591,015, Apr. 1.
Aromatic nitriles, Manufacture of. R. Engelhardt and H. Arledter. 2,591,415, Apr. 1.
Arrangement for desensitizing high-frequency electrical-wave apparatus. H. A. Wheeler. 2,591,484, Apr. 1.
Ash tray. T. A. Martin. 2,591,175, Apr. 1.
Atomizer, Hand-operated liquid. E. D. Rogers. 2,591,296, Apr. 1.
Attaching clip for wall surfacing. K. E. Knott. 2,591,361, Apr. 1.
Automatic safety mechanism for mechanically operated cutting knives severing strip materials. J. I. Nasmith. 2,591,592, Apr. 1.
Automatic shutoff valve. W. E. Barnes. 2,590,918, Apr. 1.
Automatic shutoff valve. R. H. Boggs. 2,590,838, Apr. 1.
Automatic volume control circuit. A. E. Tilley. 2,591,637, Apr. 1.
Automobile body structure, Convertible. O. Schreiner. 2,591,380, Apr. 1.
Awning, Ventilated metal. G. P. Robinson. 2,591,610, Apr. 1.
Azo dyestuffs. M. Schmid, J. Danuser, H. Johner, E. Moser, and J. Wuergler. 2,591,470, Apr. 1.
Bag: *See*—
  Golf bag. Mothproof garment bag.
Balanced turbodrill. L. Yost. 2,591,488, Apr. 1.
Barbecue pit. Z. A. Hughes. 2,591,072, Apr. 1.
Base for cover-type annealing furnace with external means for circulating and cooling atmosphere gases. H. J. Pugsley. 2,591,097, Apr. 1.
Batter dispenser. K. E. Bemis. 2,590,921, Apr. 1.
Bearing: *See*—
  Slide mount pillow block bearing.
Bearing and manufacture thereof, Roller. R. R. Kilian. 2,591,160, Apr. 1.
Bearing mounting. S. S. Shoup. 2,591,622, Apr. 1.
Beater mill with cylindrical separator structure adjacent the mill outlet, Rotary. J. Dulait. 2,591,141, Apr. 1.
Beating apparatus. E. Stephansen. 2,591,633, Apr. 1.
Bed, Health. R. E. Beegle. 2,590,920, Apr. 1.
Belt conveyor drive. S. C. Moon. 2,591,089, Apr. 1.
Berry cleaner. A. B. McLauchlan. 2,591,086, Apr. 1.
Billet heating furnace. F. O. Hess. 2,591,259, Apr. 1.
Bird feeder. L. A. Breck, Jr. 2,591,126, Apr. 1.
Bird feeder. R. E. Meany. 2,591,459, Apr. 1.
Biscuit cutting machine and the like. J. Hart. 2,591,256, Apr. 1.
Block indicator for centralized traffic control systems. H. S. Young. 2,591,036, Apr. 1.
Block molding machine. R. D. Wells. 2,590,908, Apr. 1.

Board: *See*—
  Oscillatable baseball game board.
Bobbin and package wound thereon, Cop-type. E. Roatta and A. Peyssonneaux. 2,591,295, Apr. 1.
Boiler with central firebox and offset magazine, Symmetrical flue. W. H. Smith. 2,591,627, Apr. 1.
Bolt finishing machine. C. D. Overly. 2,591,285, Apr. 1.
Bottle closure. F. Dworacek. 2,590,949, Apr. 1.
Box: *See*—
  Gear box.
Bracket: *See*—
  Adjustable mirror bracket. Micrometer bracket.
Bracket for automobile signs. S. H. Cohen and E. Piltch. 2,591,337, Apr. 1.
Brake assembly, Hand. J. D. Baldwin, Jr., and F. D. Wyss. 2,591,495, Apr. 1.
Brake for tubular frame vehicles, Adjustable. A. P. Douglas and L. J. Walters. 2,591,524, Apr. 1.
Brake operated by steering means. E. H. Lohse. 2,591,171, Apr. 1.
Braking apparatus for roller conveyers. J. McKay. 2,590,994, Apr. 1.
Branding and dehorning chute for cattle. A. Osmetti. 2,591,191, Apr. 1.
Brassière, Adjustable. M. L. Allison. 2,590,915, Apr. 1.
Brassière, Posture-corrective. T. A. Mungo. 2,591,462, Apr. 1.
Breathing device for storage tanks. H. A. Quist. 2,591,098, Apr. 1.
Brick grease composition. L. W. Sproule and L. F. King. 2,591,630, Apr. 1.
Broad-banded termination for electromagnetic wave transmission systems. N. R. Wild. 2,591,223, Apr. 1.
Brominating xylene. J. L. Betts, Jr., and A. L. Chaney. 2,591,498, Apr. 1.
Brush, Foot. E. W. Baumbach. 2,591,331, Apr. 1.
Brush in a suction cleaning tool, Adjustable. W. A. Humphrey. 2,591,262, Apr. 1.
Buckle. P. W. White and J. J. Schutz. 2,591,648, Apr. 1.
Buckle, Quick-release. E. C. Elsner. 2,590,851, Apr. 1.
Burner: *See*—
  Grid gas burner. Radiant work heating gas burner.
  Oil burner.
Cabinet. G. E. Lundine. 2,591,172, Apr. 1.
Calculator, Hog carcass grade. R. E. Botts. 2,591,504, Apr. 1.
Caliper with demountable frame, External. M. Maag. 2,591,453, Apr. 1.
Camera, Roll film. J. Frye. 2,591,417, Apr. 1.
Can opener attachment. H. H. Horstmann. 2,591,155, Apr. 1.
Can opener, Rotary type. R. E. McLean. 2,591,181, Apr. 1.
Can sealer. L. P. Cleary and C. G. Farr. 2,591,136, Apr. 1.
Cap: *See*—
  Vehicle radiator cap.
Car coupler. W. J. Metzger. 2,591,275, Apr. 1.
Carbon black pelleting process. C. W. Sweitzer. 2,591,024, Apr. 1.
Carbonating apparatus. P. Kollsman. 2,591,440, Apr. 1.
Carbureting mechanism. W. L. Howe, Jr. 2,591,356, Apr. 1.
Cargo transporter, Overside. C. E. Dougherty and E. E. Minor. 2,591,140, Apr. 1.
Carriage for vacuum cleaners, Elevated. D. Liesener. 2,591,365, Apr. 1.
Carrier: *See*—
  Line carrier.
Carrier for cartons and the like. V. L. Nielsen. 2,590,999, Apr. 1.
Carton, Collapsible cardboard. H. C. Bloomer. 2,591,500, Apr. 1.
Carton, Duplex divisible. R. O. Spalding. 2,591,629, Apr. 1.
Carton, Egg. J. W. Lennon. 2,591,446, Apr. 1.
Carton, Tiltable display. R. Guyer. 2,591,425, Apr. 1.
Cartridge and producing same, Metal. M. L. A. Paulvé. 2,591,286, Apr. 1.
Case: *See*—
  Eyeglass case.
Casing perforating gun. J. O. Tow. 2,591,319, Apr. 1.
Cassette. F. W. Reuter. 2,590,891, Apr. 1.
Casting ingots of rimming steel, Method and device for. H. J. Daussan. 2,591,517, Apr. 1.
Catalytic desulfurization of hydrocarbon oils. W. F. Engel and P. van 't Spijker. 2,591,525, Apr. 1.
Catalytic treatment of industrial gases. F. W. Haywood and D. S. Laidler. 2,591,543, Apr. 1.
Cattle guard. G. C. Welter. 2,591,220, Apr. 1.
Cellular cushioned container. W. H. Inman. 2,591,548, Apr. 1.
Cellulose pad machine. C. G. Jon. 2,591,359, Apr. 1.
Centrifugal separator. N. E. Bergner. 2,591,396, Apr. 1.
Chain: *See*—
  Skid chain.
Chair: *See*—
  Foldable reclining chair.
Chair having garment holding attachments. I. Scott-Dalgleish. 2,591,381, Apr. 1.
Chemical process for production of leaded ammonium chloride crystals. C. V. Herrmann. 2,591,067, Apr. 1.
Chlorine containing compounds. S. D. Ross. 2,591,611, Apr. 1.
Chuck. F. Pellar and J. C. Zivny. 2,591,287, Apr. 1.
Chuck. R. A. Wallace. 2,591,389, Apr. 1.
Cigarette collecting mechanism with upstanding members on a conveyer for releasably supporting flexible end portions of receptacles. F. F. Ruau. 2,591,202, Apr. 1.
Cigarette supporting cover. G. Ajdukovich. 2,591,113, Apr. 1.
Circuit: *See*—
  Automatic volume control circuit. Signal responsive circuit.
  Combining measuring circuit. Subdivided coded railway track circuit.
  Relay ring circuit. Trunk circuit.
  Video blanking circuit.
Circuit breaker. G. A. Matthews. 2,590,989, Apr. 1.
Circuit control for well surveying instruments. G. J. Butterworth. 2,590,930, Apr. 1.
Circuits for transmitting tones to calling subscribers, Special trunk. J. Michal. 2,591,580, Apr. 1.
Citrus fruit press. J. H. Clark. 2,591,510, Apr. 1.
Clamp. G. O. Conner. 2,591,512, Apr. 1.
Clay articles, Manufacture of novel. I. R. Linnard. 2,591,565, Apr. 1.
Clay treating oil, Method and apparatus for. W. W. Kraft. 2,590,872, Apr. 1.
Cleaner: *See*—
  Berry cleaner. Vacuum cleaner.
  Rotary tooth cleaner.
Clock, Sustained power electric. O. H. Dicke. 2,591,054, Apr. 1.
Closure device. B. C. Sepesy. 2,591,207, Apr. 1.
Clothesline adjuster. L. A. Becker. 2,590,919, Apr. 1.
Clothesline hoist. T. R. Foster. 2,591,416, Apr. 1.
Clothespin. C. A. Morgan. 2,590,881, Apr. 1.
Clothespin. J. M. Olsen. 2,591,596, Apr. 1.
Clothespin holder. J. Levine. 2,591,169, Apr. 1.
Clothespin, Plastic. J. B. Tegarty. 2,591,477, Apr. 1.
Clothes-washing machine. A. Ellersgaard. 2,591,143, Apr. 1.
Clutch assembly for search receivers, Automatic selector. J. F. Curran. 2,590,844, Apr. 1.
Clutch control apparatus. H. C. Rowand. 2,591,201, Apr. 1.
Clutch for hoisting drums, Fluid. R. R. Whitehill. 2,591,325, Apr. 1.
Clutch mechanism. E. T. J. Tapp and J. Davey. 2,591,635, Apr. 1.
Coating mineral granules. C. Grove. 2,591,149, Apr. 1.
Coating surfaces chiefly of zinc, Method of and solution for. H. K. Ward. 2,591,479, Apr. 1.
Coffee maker. L. Burgess. 2,591,132, Apr. 1.
Coin water meter. F. van der Plas. 2,591,029, Apr. 1.
Coking coal. E. Berl. 2,591,496, Apr. 1.
Cold cathode discharge device. P. W. Stutsman. 2,591,474, Apr. 1.
Cold swelling starch process. C. J. Yarber. 2,590,912, Apr. 1.
Comb and liquid disperser, Combination. O. A. Braun. 2,591,125, Apr. 1.
Combination spark-glow plug. W. T. Tierney, Jr., and C. W. Davis, Jr. 2,591,025, Apr. 1.
Combined magnetic transducer head and output transformer. H. A. Howell. 2,591,070, Apr. 1.
Combining measuring circuit. H. E. Darling. 2,590,946, Apr. 1.
Combustion catalyst compositions. R. R. Bottoms. 2,591,503, Apr. 1.
Combustion chamber jacket with alternate cooling passages of fuel and oxidizer. R. H. Goddard. 2,591,421, Apr. 1.
Compensating differential control mechanism. E. K. Rose and F. R. Prill. 2,591,011, Apr. 1.
Compressed air coal breaker. E. C. Filstrup. 2,591,529, Apr. 1.
Compressor and vacuum system, Hermetically sealed. J. J. Davis. 2,591,238, Apr. 1.
Condensation retaining receptacle. C. E. S. Place. 2,591,374, Apr. 1.
Condenser: *See*—
  Engine exhaust condenser.
  Variable electrical condenser.
Condenser winding testing and sorting apparatus. J. S. Burge, H. J. McKee, W. M. Rider, L. H. Conrad, and F. J. Foust. 2,591,047, Apr. 1.
Confection mold. R. E. Holahan. 2,591,261, Apr. 1.
Connector: *See*—
  Separable electrical connector.
Connector strip. R. J. Bush. 2,591,048, Apr. 1.
Contact printing apparatus. F. G. Ludwig. 2,591,449, Apr. 1.
Container: *See*—
  Cellular cushioned container. Molded pulp container.
  Display container. Vacuum type food container.
  Insulated container.
Continuously digesting and drying flax straw. E. T. Hodge. 2,591,069, Apr. 1.
Control device. H. A. Mudd. 2,591,184, Apr. 1.
Control means for color lighting apparatus. R. G. Williams. 2,591,650, Apr. 1.

Control valve means for fluid-actuated servomotors. G. T. Randol. 2,590,888, Apr. 1.
Controlling the temperature of exothermic reactions such as the gasification of carbonaceous solids. H. J. Ogorzaly. 2,591,595, Apr. 1.
Conveyer. L. A. Collis. 2,591,237, Apr. 1.
Cooling basin for air conditioning units. C. C. Rouse. 2,591,100, Apr. 1.
Cooling device for drinks, soups, or the like. H. Radford. 2,591,375, Apr. 1.
Cooper, Barrel type. N. J. Peters and W. Bradley. 2,591,601, Apr. 1.
Corn husking machine, Self-feeding. H. L. Rosenthal. 2,591,200, Apr. 1.
Cot, Folding. S. Kaplan. 2,591,551, Apr. 1.
Counterbalance for optical projection viewer for machine tools. G. Banko. 2,591,227, Apr. 1.
Coupler bearing block assembly. F. H. Kayler. 2,590,868, Apr. 1.
Coupling: *See*—
Pipe coupling.
Coupling device for electric cables. E. H. Jun. 2,591,437, Apr. 1.
Coupling for flexible pipes. J. C. Williams. 2,591,326, Apr. 1.
Cover: *See*—
Cigarette supporting cover. Truck box cover.
Ship's hatch cover.
Crane loading portable bar rack. W. G. Butsch. 2,591,049, Apr. 1.
Crate and liner therefor, Bottle. J. Kuchel. 2,591,266, Apr. 1.
Crate, Shipping. B. C. Colt, Jr. 2,590,941, Apr. 1.
Crossbar, Waste outlet. A. M. Stavoe and W. D. Carrie. 2,591,632, Apr. 1.
Crossbelt magnetic separator. K. A. Blind. 2,591,121–2, Apr. 1.
Cultivator. D. E. Gillespie. 2,591,420, Apr. 1.
Curler, Pin. E. N. Gathman. 2,591,418, Apr. 1.
Cutter: *See*—
Sewing-machine thread cutter. Vegetable cutter.
Cutter head with slotted bit seats, Rotary. E. P. Sacrey. 2,591,614, Apr. 1.
Cutting machine for brick, tile, and similar articles. G. P. Scott. 2,591,206, Apr. 1.
Cutting oil. S. Manilych and L. L. Lambert. 2,591,570, Apr. 1.
Cylinder broach. H. P. Phillips. 2,591,004, Apr. 1.
Damper construction. E. B. Morgan. 2,590,998, Apr. 1.
Data transmitting means in record controlled statistical machines. L. E. Brougham and J. Perrin. 2,591,128, Apr. 1.
Decoy. W. G. Colgan. 2,590,842, Apr. 1.
Dental machine control. J. A. Biggs. 2,591,119, Apr. 1.
Dental paralleling device. V. W. Mintz. 2,591,183, Apr. 1.
Depolarizer for primary cells. A. L. Fox. 2,591,532, Apr. 1 .
Derby and mute rack holder. W. Berg. 2,591,041, Apr. 1.
Desiccator using an absorbent. H. W. Dietert and J. A. Schuch. 2,591,055, Apr. 1.
Desk and table, Combined writing. D. Granditer. 2,590,959, Apr. 1.
Device for determining capillary fragility. G. M. Larson and H. B. Lewis. 2,591,443, Apr. 1.
Device for nullifying combination locks. N. Krasñansky, M. Sulik, P. Eliscovich, and J. Levy. 2,591,165, Apr. 1.
Device for producing an oscillatory circuit tuned to an ultrahigh frequency. M. J. O. Strutt, A. van der Ziel and K. S. Knol. 2,591,316, Apr. 1.
Device for the production of rods and tubes from glass, plastic or like substance. W. Schuller. 2,591,304, Apr. 1.
Device for removing restorations from teeth. H. F. Lynch and J. F. Smith. 2,594,451, Apr. 1.
Device for safety checking the alignment of patterns. R. C. Stelmach. 2,591,314, Apr. 1.
Dial retainer for calendar timepieces. M. Huguenin. 2,590,967, Apr. 1.
Diamond holder for 180 degree concave radii in grinding wheels. W. Muench. 2,591,591, Apr. 1.
Diaper pants. M. R. Leaton. 2,591,079, Apr. 1.
Die: *See*—
Hydraulic die.
Die apparatus. O. R. Vigneault and D. M. Small. 2,591,108, Apr. 1.
Die mechanism for wire coating apparatus. E. H. Brink. 2,591,505, Apr. 1.
Di-quaternary salts of pyrimidylamino-quinolines. W. Hepworth. 2,591,543, Apr. 1.
Dishwashing machine. L. A. Loeb. 2,591,080, Apr. 1.
Dispenser: *See*—
Batter dispenser.
Dispenser for pressure sensitive tape. T. H. Krueger. 2,591,559, Apr. 1.
Dispensing attachment for collapsible tubes, including a reciprocating piston. K. A. Garvey. 2,591,145, Apr. 1.
Dispensing cap having cam actuated closure. V. Popoff. 2,591,465, Apr. 1.
Dispensing container for dust. D. M. Altiere and R. A. Burton. 2,591,653, Apr. 1.
Dispensing device. V. L. Darnell. 2,591,516, Apr. 1.
Display container. C. W. and E. F. Middleton. 2,591,276, Apr. 1.
Display device, Collapsible. L. J. Levinson and A. Shebel. 2,591,170, Apr. 1.
Distillation column. J. F. Rollins and M. E. Brooks. 2,591,010, Apr. 1.
Divided car seat. E. D. Hadley. 2,591,426, Apr. 1.
Dolly and trailer, Detachable. W. S. Gurton and H. Nyberg. 2,590,962, Apr. 1.
Door: *See*—
Laterally movable car door. Refrigerator door.
Door brace construction, Adjustable. G. C. Harbison. 2,591,352, Apr. 1.
Dowel bar and joint sealing strip construction. J. E. Carter. 2,590,933, Apr. 1.
Drain. E. Hoerner. 2,591,432, Apr. 1.
Draw hook with lock cap for trailers. E. Wirz. 2,591,487, Apr. 1.
Dressing device for grinding wheels. M. Hrankowski. 2,591,434, Apr. 1.
Drier: *See*—
Tenter drier.
Drive mechanism for circular saws. A. P. Smith. 2,590,898, Apr. 1.
Driving unit for motor vehicles. P. C. Vincent. 2,591,219, Apr. 1.
Drying fibrous sheet material. J. Dungler. 2,590,849, Apr. 1.
Drying oils, Production of. H. S. Bloch and R. C. Wackher. 2,590,923, Apr. 1.
Dust collector. R. H. Goodrich. 2,590,958, Apr. 1.
Dyeing of wool with high-affinity colloidal dyestuffs and di-ammonium phosphate. J. N. Dalton and J. P. Ploubides. 2,590,847, Apr. 1.
Dynamoelectric machine and cooling means. J. M. Gaylord. 2,590,855, Apr. 1.
Dynamoelectric machine having an air cleaner, Self-ventilated. J. H. Crankshaw. 2,591,408, Apr. 1.
Earth auger. K. J. Browne. 2,591,233, Apr. 1.
Educational device. L. L. Witter and O. R. Deckert. 2,591,327, Apr. 1.
Elastic cord exerciser. S. Farison. 2,590,951, Apr. 1.
Electric battery composed of flat elements. A. Héraud. 2,591,355, Apr. 1.
Electric heating elements, Making. C. Lacy-Hulbert and A. V. Barton. 2,591,442, Apr. 1.
Electric power supply system. F. M. Reed. 2,591,605, Apr. 1.
Electrical conductor. P. H. Sanborn. 2,590,894, Apr. 1.
Electrical heating apparatus. C. L. Cowdrey and J. Kinsella. 2,590,944. Apr. 1.
Electrical switch. K. A. Harmon and G. A. Guernsey. 2,591,353, Apr. 1.
Electrode arrangements for facsimile recorders. W. H. Tribble. 2,591,640. Apr. 1.
Electrode for electrotherapeutic treatments. F. Landauer. 2,590,876, Apr. 1.
Electrolyte level indicator and antisplash device for electric accumulators. R. Gray. 2,590,960, Apr. 1.
Electrolytic method of removing burrs. W. H. Brandt, M. W. Rider and R. C. Westphal. 2,590,927, Apr. 1.
Electromagnetic relay or contactor. W. de Filgué. 2,591,520, Apr. 1.
Electronic accumulator. E. V. Gulden and J. A. Klopf. 2,591,541, Apr. 1.
Electronic accumulator. C. F. Rench. 2,591,008, Apr. 1.
Electrostatic precipitator. L. H. Carlson. 2,591,404, Apr. 1.
Elimination and irrigation equipment. E. R. Seymour and C. W. R. Russell. 2,591,208, Apr. 1.
Engine: *See*—
Internal - combustion engine.
Engine exhaust condenser. R. E. Nelson. 2,591,187, Apr. 1.
Engine mount attachment. B. C. Anderson. 2,591,393, Apr. 1.
Equipment for use in the manufacture of drawing dies. W. E. Roux. 2,591,298, Apr. 1.
Esters of acylated lactic acid. M. L. Fein and C. H. Fisher. 2,590,852, Apr. 1.
Excess flow control valve. O. L. Garretson. 2,591,060, Apr. 1.
Exothermically reacting sleeve for risers. K. Strauss and R. F. Boddey. 2,591,105. Apr. 1.
Extensible draft tongue for trailers and the like. J. H. Stees. 2,591,312, Apr. 1.
Extrusion apparatus. G. S. Brown. 2,591,508, Apr. 1.
Extrusion device and process. L. L. Gillett. 2,591,062, Apr. 1.
Eyeglass case. I. J. Gershen. 2,590,935, Apr. 1.
Fabric adapted for use as upholstery covers and the like, Woven. F. M. Merrill. 2,590,995. Apr. 1.
Fabric wear tester. H. F. Clapham. 2,590,839, Apr. 1.
Facsimile apparatus employing a stylus. A. G. Cooley. 2,591,138. Apr. 1.
Fan, Electric. C. A. Lindberg. 2,590,877, Apr. 1.
Fan, Portable electric. A. F. Fukal. 2,590,952, Apr. 1.
Fastener insert, Expandible. T. A. McCollum. 2,591,575, Apr. 1.

Fatigue testing machine. B. J. Lazan. 2,591,444, Apr. 1.
Feeder: *See*—
Bird feeder.
Feeder for solid materials. H. F. Hill. 2,590,968, Apr. 1.
Fertilizer separator for barns and like structures. J. Volmer. 2,591,643, Apr. 1.
Filling body for gas-liquid contact towers. E. Berl. 2,591,497, Apr. 1.
Film handling apparatus for projection devices. D. I. Critoph. 2,591,139, Apr. 1.
Film registering and mounting device. D. A. Decker. 2,591,519, Apr. 1.
Filter: *See*—
Air filter.
Reflection interference filter.
Filter. G. R. Ericson. 2,591,056, Apr. 1.
Fingernail guard. A. D. Okonski. 2,591,092, Apr. 1.
Fishhook. C. T. Sampson. 2,591,013, Apr. 1.
Fishhook support and sinker. S. J. Ripich. 2,591,294, Apr. 1.
Fishing bait or lure. J. H. McCormick. 2,590,990, Apr. 1.
Fishing float. J. A. Behensky. 2,591,332, Apr. 1.
Fishing line float. E. H. Kramer. 2,591,558, Apr. 1.
Fishing lure. M. E. Walsh. 2,591,391, Apr. 1.
Fishing reel. L. Cooper. 2,591,338, Apr. 1.
Fishing reel. F. W. Schnepel. 2,591,204, Apr. 1.
5-substituted-5-(2-thienyl) hydantoins. J. J. Spurlock. 2,591,103, Apr. 1.
Flashlight, including electric system and lock subassembly, Vest pocket. A. Zwierzynski. 2,591,112, Apr. 1.
Flashlight with movable varicolored light filter. N. D. Gheorghiu. 2,591,419, Apr. 1.
Flow control valve. W. B. Mahoney, Jr. 2,591,274, Apr. 1.
Flowerpot stand. R. M. Koch. 2,591,362, Apr. 1.
Flowmeter, Mass rate. J. B. Turner, Jr. 2,591,478, Apr. 1.
Flowmeter, Thermal. M. A. Picciano. 2,591,195, Apr. 1.
Fluid pressure brake equipment. S. L. Williams and J. W. Rush. 2,591,224, Apr. 1.
Fluid pressure regulating apparatus. D. W. Rau. 2,591,197, Apr. 1.
Fluid pulverizing apparatus. R. G. Anderson. 2,591,330, Apr. 1.
Fluid valve. D. H. Reeves. 2,591,292–3, Apr. 1.
Foldable reclining chair. G. K. Odén. 2,591,284, Apr. 1.
Folding device. C. Kemp. 2,591,553, Apr. 1.
Food saver. W. J. Schacht. 2,591,301, Apr. 1.
Footrest, Adjustable. R. N. Owler. 2,591,598, Apr. 1.
Footrest for wheel chairs and the like, Adjustable. H. A. Everest and H. C. Jennings. 2,591,246, Apr. 1.
Footwear, Ventilated. R. T. Manning. 2,591,454, Apr. 1.
Forage blower with pivoted feed trough. Q. C. Delsman and K. L. Surfus. 2,591,411, Apr. 1.
Form for use in making cement-fiber boards. A. Elmendorf. 2,591,414, Apr. 1.
Frequency divider. W. C. Anderson. 2,591,114, Apr. 1.
Frequency stabilization by molecularly resonant gases. W. D. Hershberger. 2,591,258, Apr. 1.
Frothing agents for use in froth flotation processes. R. F. Powell and H. M. Stanley. 2,591,289, Apr. 1.
Fuel injection device. H. G. Camner. 2,591,401, Apr. 1.
Fuel metering and spraying system, Liquid. C. D. Fulton. 2,590,853, Apr. 1.
Fuel tank construction. W. C. Bomhardt and E. H. Sorg. 2,591,044, Apr. 1.
Fungicidal use of certain furfuryl carbanilates. D. T. Mowry. 2,591,588, Apr. 1.
Furnace: *See*—
Billet heating furnace.
Furnace charging device. F. W. Gumpp. 2,591,424, Apr. 1.
Furnace with flue gas turbulator, Fire tube. W. B. Brock. 2,591,398, Apr. 1.
Gamma - nitroalkyl - alpha,beta-dichloro-gamma-crotonolactones. D. T. Mowry. 2,591,589, Apr. 1.
Garbage disposer. J. C. Trotter. 2,591,388, Apr. 1.
Garment hanger. W. G. Olpe. 2,591,001, Apr. 1.
Gas burner and cap for supplying secondary air. D. E. Du Perow. 2,590,948, Apr. 1.
Gas igniter tube for burners, Automatic. S. A. Sloan. 2,591,626, Apr. 1.
Gas, Manufacture of. W. O. Keeling. 2,590,869, Apr. 1.
Gate valve. H. Allen. 2,591,038, Apr. 1.
Gauge: *See*—
Adjustable thread ring gauge. Lapping thread ring gauge.
Internal dimension gauge. Liquid level gauge.
Gear box. A. Brewster. 2,591,127, Apr. 1.
Gear for cycles and the like, Change-speed. L. Juy. 2,590,975, Apr. 1.
Gear shifting in high-power manifold units. M. A. J. Honnoré and P. M. F. Zens. 2,590,861, Apr. 1.
Gelatin derivative, Producing. D. H. Campbell, J. B. Koepfli, and L. Pauling. 2,591,133, Apr. 1.
Generator: *See*—
Transformerless sawtooth current generator.
Generator of ultra short electromagnetic waves. R. Warnecke. 2,591,322, Apr. 1.
Golf bag. R. E. Thompson. 2,591,217, Apr. 1.
Grain conditioner. R. F. Marken. 2,591,173. Apr. 1.
Grid gas burner. R. E. James and A. J. Lampert. 2,591,263, Apr. 1.
Grill structure. A. J. Fitzgerald. 2,591,346, Apr. 1.
Grinder, including means preventing the entrance of material between the rotor and housing thereof. L. K. Knight. 2,591,076, Apr. 1.
Ground leveling attachment for tractor cultivators. J. M. Dejoy. 2,591,522. Apr. 1.
Growing ethylenediamine tartrate crystals. A. C. Walker. 2,591,032, Apr. 1.
Guanide-formaldehyde condensation products for tanning and bleaching leather. J. T. Thurston. 2,591,218, Apr. 1.
Guide mechanism for tank balls. S. Cole. 2,591,137, Apr. 1.
Gyroscope, Directional. M. H. Axler. 2,590,837, Apr. 1.
Hammer safety for automatic guns, Automatic. A. F. Gaidos. 2,590,854, Apr. 1.
Hand protector grip. C. W. Dick. 2,591,523, Apr. 1.
Handle for carton carriers. L. S. Nolan. 2,591,593, Apr. 1.
Handle for suction cleaner casing. L. E. Segesman. 2,591,305, Apr. 1.
Handle means for simultaneous operation of double-ended pliers. J. D. Keenan. 2,591,360, Apr. 1.
Hanger: *See*—
Garment hanger.
Hanger attachment, Garment. W. L. Taub. 2,591,387, Apr. 1.
Hanger construction, Garment. J. K. Burns. 2,591,234, Apr. 1.
Hardened photographic film of improved photographic properties. B. R. Harriman. 2,591,542, Apr. 1.
Harrow attachment for tractors. R. Udy. 2,591,028, Apr. 1.
Hat cover with perforated brim. R. J. Weikert. 2,591,324, Apr. 1.
Hayfork, Hydraulic. W. A. Henggeler. 2,591,431, Apr. 1.
Heat exchange apparatus. J. A. Jost and E. Vogt. 2,590,866, Apr. 1.
Heat exchanger. D. M. McBean. 2,591,179, Apr. 1.
Heater: *See*—
Individual vertical-type fuel-burning heater.
Heater with means for draining spilled oil, Oil-burning air. E. B. Barnes. 2,591,039, Apr. 1.
Hen's nest. H. E. Smith. 2,591,021, Apr. 1.
Hermetically sealed insulator bushing assembly. R. A. Schoenlaub. 2,591,205, Apr. 1.
High-frequency radio apparatus. E. A. Johnson. 2,590,864, Apr. 1.
Hinged closure control. A. J. Swanson. 2,591,476, Apr. 1.
Holder: *See*—
Air-brush holder. Releasing tap and die holder.
Clothespin holder. Tea bag holder.
Derby and mute rack holder. X-ray film exposure holder.
License tag holder.
Note pad and note sheet holders.
Holder for rolls of tape with inserts. F. McCormick. 2,591,576, Apr. 1.
Holding and extruding paste and liquid materials. W. S. Harris. 2,591,354, Apr. 1.
Home hospital unit for poliomyelitis victim and invalids. L. H. Lynch. 2,591,082, Apr. 1.
Honeycomb. J. Yanik. 2,591,328, Apr. 1.
Hose attachment. H. Harkey. 2,591,427, Apr. 1.
Hose reel construction. R. Hannay. 2,590,963, Apr. 1.
Humidifier structure. W. Feldermann. 2,591,057, Apr. 1.
Hydrating dates. P. J. Stupin and L. Adams. 2,591,213, Apr. 1.
Hydraulic die. R. J. Gaudreau. 2,591,061, Apr. 1.
Hydraulic governor head with speeder spring adjusting means. E. J. Collins. 2,590,940, Apr. 1.
Hydraulic lift. E. J. Adams. 2,591,489, Apr. 1.
Hydraulic power unit for presses and the like. R. J. Parsons. 2,591,464, Apr. 1.
Hydraulic press operator with automatic speed regulation. C. S. Dayton. 2,591,410, Apr. 1.
Hydraulic transmission. S. A. Kraft and A. W. Beaurline. 2,591,363, Apr. 1.
Hydrogen fluoride recovery. J. E. Penick. 2,591,096, Apr. 1.
Hydrogenated vinylcyclohexene-dimer. H. L. Johnson and F. J. Bondhus. 2,590,971, Apr. 1.
Hydropneumatic graduator. R. E. Millican. 2,591,087, Apr. 1.
Hydrotherapy apparatus, Portable. W. E. Gilson. 2,591,252. Apr. 1.
Hyperbolic position locating device. R. B. Johnson, H. A. Hendrich, and G. V. A. Malmros. 2,591,074, Apr. 1.
Hypodermic syringe assembly. F. E. Brown. 2,591,046, Apr. 1.
Ignition device for arc lamps. P. E. C. Nuquet. 2,591,594, Apr. 1.
Impaling pin target. L. W. Schoenherr. 2,591,016, Apr. 1.
Indicator. J. A. Klopf. 2,591,555, Apr. 1.
Individual vertical-type fuel-burning heater. W. G. Carter. 2,591,235, Apr. 1.
Inductive train communication system. A. J. Sorensen. 2,591,022. Apr. 1.
Inking mechanism for printing presses. W. C. Rupp. 2,591,613, Apr. 1.
Instrument, Microwave measuring. J. F. Zaleski. 2,591,329, Apr. 1.

Instrument, Musical. H. M. Stephenson. 2,591,023, Apr. 1.
Insulated container. R. W. McNealy and J. A. Glassman. 2,591,578, Apr. 1.
Insulated sectionalized bus duct system. N. Swerdlow and G. G. Abel. 2,591,386, Apr. 1.
Insulation slitting tool. A. Lavoie. 2,591,560, Apr. 1.
Insulator. P. H. Sanborn. 2,590,893, Apr. 1.
Internal-combustion engine. K. Rasmussen. 2,591,099, Apr. 1.
Internal dimension gauge. M. Maag. 2,591,452, Apr. 1.
Introduction of a double bond adjacent a keto group in ketosteroids. E. C. Kendall and V. R. Mattox. 2,590,978, Apr. 1.
Introduction of a double bond in ketosteroids. W. F. McGuckin and E. C. Kendall. 2,590,993, Apr. 1.
Iron cord support and retriever. F. D. Clark. 2,590,936, Apr. 1.
Ironer and stand combination, Portable. J. J. Getgey. 2,591,656, Apr. 1.
Ironer stand with convertible work tray slidably mounted therein. J. J. Getgey. 2,591,657, Apr. 1.
Irrigation signal device. M. L. Adams. 2,591,037, Apr. 1.
Jack: *See*—
  Vehicle jack.
Jack eye for loom harness. W. A. Blanchard. 2,591,397, Apr. 1.
Jack for trailers, Raising and supporting. A. R. Askue. 2,591,226, Apr. 1.
Jar. C. C. Brown and F. L. Scott, Jr. 2,591,130, Apr. 1.
Jaw type crusher. S. W. Traylor, Jr. 2,591,639, Apr. 1.
Jet-propelled wheeled vehicle. V. S. Rees. 2,591,376, Apr. 1.
Juicer, Fruit. P. J. Kircher. 2,591,162, Apr. 1.
Jumper, Maternity. L. W. Cormier. 2,591,513, Apr. 1.
Key operated lock mechanism. L. E. Willett and R. G. Baker. 2,591,111, Apr. 1.
Key, Two-piece. P. Ziegliss. 2,591,652, Apr. 1.
Kitchen press. V. H. Springford. 2,591,311, Apr. 1.
Knee joint for orthopedic braces or artificial limbs, Lockable. M. C. Petruch. 2,591,373, Apr. 1.
Knife or like implement, Sheathed. L. F. G. Foley. 2,591,655, Apr. 1.
Knitting machine, Full-fashioned. M. Jeffrey. 2,591,639, Apr. 1.
Ladder tape. L. J. Rasero. 2,590,889, Apr. 1.
Lamp: *See*—
  Portable electric service lamp.
Lamp with ball switch, Electric. J. Marino. 2,591,571, Apr. 1.
Lapping thread ring gauge. A. E. Langmaid and R. A. Bloom. 2,591,167, Apr. 1.
Latch. N. A. Welch. 2,591,647, Apr. 1.
Laterally movable car door. F. Ditchfield. 2,591,412, Apr. 1.
Lathe attachment. L. M. Keef. 2,591,552, Apr. 1.
Leak compensated capacitor. D. R. de Boisblanc. 2,591,053, Apr. 1.
Leak detector. W. C. White. 2,591,485, Apr. 1.
Lever actuated spring assembling hand vise. L. E. Sowell. 2,591,210, Apr. 1.
License tag holder. R. R. Post. 2,591,196, Apr. 1.
Light valve system. F. K. Singiser. 2,591,308, Apr. 1.
Lighter. N. Nordenatam. 2,591,189, Apr. 1.
Lighting fixture with light baffles, Fluoreacent. L. Gilman. 2,591,251, Apr. 1.
Lightning arrester. R. D. Nelson and E. A. Link. 2,591,370, Apr. 1.
Lightweight aggregate from molten slag, Production of. E. L. Stout, W. C. Scott, Jr., and J. M. Stinson. 2,590,901–2, Apr. 1.
Line carrier. R. E. Trafton. 2,591,638, Apr. 1.
Lip brush holder with manual release and gravity drop. D. Gordon. 2,591,537, Apr. 1.
Lip rouge applicator. A. N. Turnes. 2,591,027, Apr. 1.
Liquid dispensing machine, Sanitary. D. W. Brous. 2,591,507, Apr. 1.
Liquid fuel and oxidizer jacketed combustion chamber with axial conical fuel spreader. R. H. Goddard. 2,591,422, Apr. 1.
Liquid fuel feeding system. W. L. Johnson. 2,590,972, Apr. 1.
Liquid level gauge. J. C. Denis. 2,590,947, Apr. 1.
Liquid level gauge attachment. H. J. Johnson. 2,591,075, Apr. 1.
Lockbox, Safety. A. Levereth. 2,591,270–1, Apr. 1.
Locking device. J. W. Seele. 2,590,896, Apr. 1.
Loom harness with slidable heddle bar support. B. T. Leveque. 2,591,563, Apr. 1.
Loom take-up let-back mechanism. H. B. Gosnell. 2,591,538, Apr. 1.
Loose-leaf binder. C. J. Broadhurst. 2,590,928, Apr. 1.
Loud-speaker made from separate units having locking ring securing units together. R. D. Charlesworth. 2,590,935, Apr. 1.
Lubricated plug valve. A. S. Volpin and J. P. Smith. 2,591,031, Apr. 1.
Lubricating greases, High-temperature. A. J. Morway and A. H. Matuszak. 2,591,586, Apr. 1.
Lubricating means for power transmitting mechanism. B. W. Keese. 2,590,870, Apr. 1.
Lubricating method. R. D. Brouwer. 2,591,129, Apr. 1.
Lubricating oil containing disulfide derivatives of organo-substituted thiophosphoric acids. J. P. McDermott. 2,591,577, Apr. 1.
Lubricating oil filter mounting. P. L. Francois. 2,591,248, Apr. 1.
Machine for bending sheets. D. O. McCall. 2,591,085, Apr. 1.
Machine for cutting ties or the like. J. H. Lorimer. 2,591,568, Apr. 1.
Machine for driving rail fastening screws in railroad ties. W. E. Piper. 2,591,005, Apr. 1.
Machine for drying and fluffing flatwork laundry. M. Troy. 2,591,321, Apr. 1.
Machine for forming clay pipes with bell-shaped ends. R. Lacy, J. D. Rossler, and C. V. McClintock. 2,591,267, Apr. 1.
Machine for making coffee rings. C. Hettinger. 2,591,546, Apr. 1.
Magnetic and manually operated electric switch. L. J. Bordelon. 2,591,336, Apr. 1.
Magnetic means for producing compensations and other effects in a cathode-ray tube. N. G. Kabuss. 2,591,159, Apr. 1.
Magnetic torque device. G. L. Bennett. 2,591,395, Apr. 1.
Magnetic torque device. R. J. Parker. 2,591,463, Apr. 1.
Making knitted fabrics, Method and apparatus for. H. D. Adams. 2,590,914, Apr. 1.
Map and schedule display device, Collapsible. E. R. and A. L. Mundy. 2,591,279, Apr. 1.
Massage table apparatus, Leg and ankle. B. H. Stauffer. 2,591,212, Apr. 1.
Measuring radioactivity, Method and apparatus for. S. Krasnow and L. F. Curtiss. 2,590,873, Apr. 1.
Mechanical wild fowl decoy. E. F. Kinney and H. E. Myers. 2,591,554, Apr. 1.
Mechanism for finishing cylindrical surfaces. L. Lowy and S. R. Emig. 2,591,273, Apr. 1.
Metal molybdite catalyzed dehydration process. H. R. Arnold and J. E. Carnahan. 2,591,493, Apr. 1.
Metal tag. H. Nierhaus. 2,590,883, Apr. 1.
Metatarsal arch supporting pad. W. M. Scholl. 2,591,378, Apr. 1.
Meter: *See*—
  Coin water meter.
Metering pin. O. O. Newman. 2,591,090, Apr. 1.
Micrometer bracket. H. W. Blewett and J. A. Bernardini. 2,590,922, Apr. 1.
Milk bottle capping head, Sanitary. R. E. Bodendoerfer, D. C. Fee, and H. C. Frentzel. 2,591,501, Apr. 1.
Milling machine transmission control mechanism. R. K. LeBlond and H. C. Kemper. 2,591,268, Apr. 1.
Mold: *See*—
  Confection mold.
  Tire retreading mold.
Mold. W. D. Rich. 2,591,607, Apr. 1.
Molded pulp container. W. J. Schwertfeger. 2,591,471, Apr. 1.
Molding and assembling method and apparatus. C. J. Lind. 2,591,564, Apr. 1.
Mortar applicator. C. W. Sadler. 2,591,377, Apr. 1.
Mothproof garment bag. J. J. Mintz. 2,591,277, Apr. 1.
Motor: *See*—
  Shaded pole motor.
  Spring-driven motor.
Motor control system. J. A. Walley. 2,591,390, Apr. 1.
Mount for oscillating materials handling equipment. A. Musschoot. 2,591,281, Apr. 1.
Mounting: *See*—
  Bearing mounting.
  Lubricating oil filter mounting.
  Reciprocable windshield wiper blade mounting.
Multiple element radioactive ray recording. S. Krasnow and L. F. Curtiss. 2,590,874, Apr. 1.
N,N-di(β-carboalkoxyalkyl) alkylbenzene sulfonamides and their use as polyvinyl chloride plasticizers. J. Dazzi. 2,591,518, Apr. 1.
Naphthalenemethylol esters, Preparation of. R. A. Reck. 2,591,604, Apr. 1.
Necktie, Bow. E. F. Mansour. 2,591,366, Apr. 1.
Needle, Myelographic. L. A. Scarpellino. 2,590,895, Apr. 1.
Needle threader. R. E. Gearhart. 2,591,146, Apr. 1.
Nitrogenous anion-exchange resins. C. H. McBurney. 2,591,574, Apr. 1.
Noise reducer in scintillation counting. H. P. Kallmann. 2,590,867, Apr. 1.
Nondiffusing color formers comprising aryl J-acids in which the aryl radical is provided with a nondiffusing group. V. Tulagin and R. F. Coles. 2,591,642, Apr. 1.
Note pad and note sheet holder. C. B. Gray. 2,591,351, Apr. 1.
Nozzle, Douche. R. L. Nimmo. 2,591,371, Apr. 1.
Nozzle, Mixing. M. G. Kurth. 2,591,364, Apr. 1.
Nutcracker. L. Gendler. 2,590,953, Apr. 1.
Odds ratio relay unit for race totalizators. A. F. and G. A. Julius. 2,590,974, Apr. 1.
Offshore platform. H. A. Wilson. 2,591,225, Apr. 1.
Oil burner. W. J. J. Fritz. 2,591,533, Apr. 1.
Oil collecting and dispensing device, Combination. E. F. Fales, Sr. and K. Holder. 2,591,526, Apr. 1.
Operating mechanism for multiple point switches. W. O. Schultz. 2,591,017, Apr. 1.
Optical focusing and illuminating device for photographic cameras and the like. F. G. Back. 2,590,916, Apr. 1.

Optical objective and focusing lens assembly, Balanced. S. E. Garutso. 2,591,535, Apr. 1.
Organosilicon resins. H. A. Clark. 2,590,937, Apr. 1.
Organosiloxane resins containing as substituents $(CH_3)_2SiCH_2$— or $(CH_3)_2C_6H_5SiCH_2$—. J. T. Goodwin, Jr. 2,590,957, Apr. 1.
Orientation device for wells. L. C. Miller. 2,590,880, Apr. 1.
Oscillatable baseball game board. H. P. Hutchins. 2,591,357, Apr. 1.
Overtravel control apparatus for hydraulically controlled agricultural implements. F. W. Anderson and S. E. Hill. 2,591,492, Apr. 1.
Overvoltage responsive control circuits. R. L. Jordan. 2,590,973, Apr. 1.
Packet making machine. J. W. Chalmers and D. R. P. Jackson. 2,591,135, Apr. 1.
Pad: *See*—
  Metatarsal arch supporting pad.
Padding attachment for garment hangers. J. S. Kivett. 2,591,163, Apr. 1.
Paddle. O. S. McDonald. 2,590,991, Apr. 1.
Paint applying device, Roller. J. P. and H. J. Findley. 2,591,530, Apr. 1.
Paint can splash protector. R. T. Weltlich. 2,591,482, Apr. 1.
Pallet for stamping machines. H. A. Mintz. 2,591,360, Apr. 1.
Panel joint support. A. G. Dean. 2,591,654, Apr. 1.
Pants. D. L. and S. A. Miller. 2,591,182, Apr. 1.
Panty girdle construction. B. Grolitzer. 2,591,423, Apr. 1.
Paper feeding mechanism for statistical machines. S. R. Haines. 2,591,150, Apr. 1.
Paper pulps, Making. D. M. Sutherland. 2,591,106, Apr. 1.
Paper trimmer. S. Segal. 2,591,472, Apr.
Paraffin knife, Chemically heated. B. A. Cabaniss. 2,590,931, Apr. 1.
Partial esters. H. Wittcoff. 2,590,911, Apr. 1.
Paving machine, Road. R. C. Bohannan, H. M. Pickard, and H. R. Horning. 2,591,502, Apr. 1.
Pen, Fountain. A. N. Coskey. 2,590,943, Apr. 1.
Penholder and inkstand, Desk type. J. Sanchis. 2,591,616, Apr. 1.
Permanent-signal indicating system. J. Michal. 2,591,579, Apr. 1.
Phase modulator. A. Hazeltine. 2,590,969, Apr. 1.
Phonograph. C. B. Dale. 2,591,515, Apr. 1.
Photographic carbon tissue. J. F. Hansman and M. J. Jurisch. 2,590,857, Apr. 1.
Photographic film, Antistatic. F. W. H. Mueller. 2,591,590, Apr. 1.
Photographically sensitive diazotype element. S. C. Slifkin and W. Beese. 2,591,309, Apr. 1.
Pillow block bearing and mounting therefor. R. H. Whiteley. 2,591,222, Apr. 1.
Pillow cushion. M. H. Sherman. 2,591,306, Apr. 1.
Pilot burner and flame retaining means. L. R. A. McGuire. 2,591,458, Apr. 1.
Pin: *See*—
  Metering pin.
Pin forming and button-pinning mechanism. A. Schmalz. 2,591,203, Apr. 1.
Pinacolone peroxide. H. A. Walter. 2,591,645, Apr. 1.
Pipe coupling. E. W. Fishback. 2,591,531, Apr. 1.
Piston ring. R. F. Mason. 2,591,176, Apr. 1.
Piston ring. H. M. Olson. 2,591,190, Apr. 1.
Piston seal. J. V. Bertrand. 2,591,230, Apr. 1.
Pivoted breech closure and lock member. H. Lippert and E. Hepperle. 2,590,981, Apr. 1.
Plaster base. R. H. Cutting. 2,590,846, Apr. 1.
Plastic-sealing element. K. F. Spalding. 2,591,383, Apr. 1.
Plate keyer for radar transmitters. W. M. Andrew. 2,590,836, Apr. 1.
Plug: *See*—
  Combination spark-glow plug.
  Spark plug.
  Tamping or stemming plug.
  Removable pipe plug.
Plug catcher and indicator. T. M. Ragan. 2,591,603, Apr. 1.
Pneumatic installation. J. Troendlé. 2,591,641, Apr. 1.
Pneumatic lift conduit and disengager vessel. L. F. Bartow. 2,591,040, Apr. 1.
Polyvinylidene chloride compositions, Plasticized. D. Faulkner and J. J. P. Staudinger. 2,590,834, Apr. 1.
Portable electric service lamp. E. P. Brus. 2,591,131, Apr. 1.
Portable Ferris wheel. W. G. Catlett. 2,590,934, Apr. 1.
Portable radio receiver. T. H. Kinman, R. G. Hiberd, and C. Hayward. 2,591,438, Apr. 1.
Portable screen stand. L. J. Du Mais, H. Bernzott, and F. J. Prokop. 2,591,244, Apr. 1.
Poultry feeding apparatus. P. B. Roberts and T. B. Button. 2,591,609, Apr. 1.
Power-operated impact wrench. G. H. Webb. 2,591,323, Apr. 1.
Power plant frame structure having air-cooling means for turbine rotors and exhaust frame struts. B. O. Buckland and A. Howard. 2,591,399, Apr. 1.
Power-transmission belt. R. Martin. 2,590,988, Apr. 1.
Preloader. A. McKone. 2,591,180, Apr. 1.
Press: *See*—
  Citrus fruit press.
  Kitchen press.
Pressure energy exchanger. P. Kollsman. 2,591,441, Apr. 1.
Pressure regulator. R. T. Cornelius. 2,591,407, Apr. 1.
Pressure responsive valve. E. C. Filstrup, Jr. 2,591,528, Apr. 1.
Pressure responsive valve. D. C. Green. 2,591,148, Apr. 1.
Producing vapor trails, Method and apparatus for. H. D. Hutchinson. 2,591,157, Apr. 1.
Production of a plastic material from shellac and resinols like bhilawan shell liquid or cashew shell liquid suitable for making moulding powders, coating compositions, adhesives or the like. S. Siddiqui, K. K. Sarin, and J. P. Varma. 2,591,623, Apr. 1.
Progressive tool and improved method of progressively forming articles from strip stock or the like. A. J. West. 2,591,483, Apr. 1.
Proportional counter. C. J. Borkowski and E. Fairstein. 2,590,925, Apr. 1.
Protector: *See*—
  Paint can splash protector.
Providing magnetic sheet steel with an insulative film. W. Morrill. 2,591,460, Apr. 1.
Pulse echo ranging cathode-ray tube sweep system. R. M. Page. 2,590,884, Apr. 1.
Pulse generating circuits. E. P. Carter and C. M. Hammel. 2,591,406, Apr. 1.
Pump: *See*—
  Variable delivery positive displacement pump.
Pump. E. B. Smith and L. D. Mowrey. 2,591,101, Apr. 1.
Punch plug receptacle for hand punches. R. A. Lorenzen. 2,590,984, Apr. 1.
Push type drain valve. L. B. Courtot. 2,591,514, Apr. 1.
Puzzle, Mechanical. R. M. and O. L. Schriner, and L. M. Whyte. 2,591,303, Apr. 1.
Pyridoxin, Manufacture of. A. Cohen. 2,590,841, Apr. 1.
Rack: *See*—
  Crane loading portable bar rack.
Radiant work heating gas burner. J. D. Nesbitt and H. W. Schramm. 2,591,283, Apr. 1.
Radio-frequency transformer. H. T. Lyman and D. R. De Tar. 2,591,081, Apr. 1.
Radiosonde calibration method. C. B. Pear, Jr. 2,591,600, Apr. 1.
Railing. W. W. Bush. 2,590,929, Apr. 1.
Railway car end lining arrangement. C. R. Radey. 2,591,006, Apr. 1.
Railway track circuits. P. N. Martin. 2,591,456, Apr. 1.
Rapidly hardening cast resins from phenol and formaldehyde and tension-free castings prepared therefrom, Preparation of. W. J. Taat and R. W. v. H. Korndorffer. 2,591,634, Apr. 1.
Rayon from viscose with high elongation and spooling in centrifugal cups, Manufacture of. N. Drisch and R. Brepson. 2,591,243, Apr. 1.
Razor, Safety. J. Muros. 2,591,280, Apr. 1.
Receptacle. N. M. Stone. 2,591,104, Apr. 1.
Reciprocable windshield wiper blade mounting. R. J. O'Connor. 2,591,091, Apr 1.
Reciprocating bucky diaphragm. C. K. Gleringer and R. Duckering. 2,591,536, Apr. 1.
Recorder, Elapsed time. R. L. Lorenz. 2,591,448, Apr. 1.
Recorder for antisubmarine attack training, Sono-optical. W. K. Lyon and R. M. Sherwood. 2,590,878, Apr. 1.
Recorder, Voice and visual. B. D. Gille. 2,590,956, Apr. 1.
Recovering temporary loop-sustaining filling weft from loop pile fabrics, Method of and apparatus for. W. R. Keen and W. R. Hewton. 2,591,166, Apr. 1.
Reel: *See*—
  Fishing reel.
  Wire reel.
Reel. M. Camras. 2,591,052, Apr. 1.
Reflection interference filter. K. F. Tripp. 2,590,906, Apr. 1.
Reflector for controlling at a predetermined angle direct and reflected rays from a light source. S. McCandless. 2,591,661, Apr. 1.
Refrigerant evaporator. J. O. Wade. 2,591,109, Apr. 1.
Refrigerator door. L. A. Philipp. 2,591,003, Apr. 1.
Regenerative tracking apparatus. J. H. Lancor, Jr. 2,590,875, Apr. 1.
Regulator: *See*—
  Pressure regulator.
Relay. H. A. Miloche. 2,590,996, Apr. 1.
Relay ring circuit. R. K. McAlpine. 2,590,879, Apr. 1.
Releasing tap and die holder. H. F. Raymond. 2,591,291, Apr. 1.
Remnant roll housing and lift. W. C. Johnson. 2,590,865, Apr. 1.
Remote starting control for internal-combustion engines. J. W. Schaeffer. 2,591,618, Apr. 1.
Removable pipe plug. R. Hoebeke. 2,590,860, Apr. 1.
Removal of flash, fin, and burr. H. N. Maier. 2,591,083, Apr. 1.
Replaceable pocket and applying the same. E. L. Frohman. 2,591,059, Apr. 1.
Resilient seat suspension. A. F. Hickman. 2,590,859, Apr. 1.

Resilient support for tractor seats. W. A. Fleischer. 2,591,144, Apr. 1.
Resinous composition comprising zein, resinous pinewood extract, and liquid phenolic resin. W. W. Reynolds and G. F. Lipsey. 2,591,466, Apr. 1.
Resinous compositions. S. O. Greenlee. 2,591,539, Apr. 1.
Resinous insoluble reaction products of tertiary amines with haloalkylated vinyl aromatic hydrocarbon copolymers. C. H. McBurney. 2,591,573, Apr. 1.
Retainer for roller bearings. R. R. Killan. 2,591,161, Apr. 1.
Retractable flap support. E. A. O'Brien. 2,591,000, Apr. 1.
Ring: *See*—
Piston ring. Sealing ring.
Ring setting. E. M. Lovell. 2,591,589, Apr. 1.
Rolling contact measuring device. A. F. Saff and D. W. Uber. 2,591,615, Apr. 1.
Roof for truck bodies. W. G. Butsch. 2,591,050, Apr. 1.
Rope composed of natural and synthetic fibers. R. A. Snyder. 2,591,628, Apr. 1.
Rosin acid esters. H. Wittcoff and J. R. Roach. 2,590,910, Apr. 1.
Rotary brush with liquid receiving and feeding chamber. N. N. Okun. 2,591,093, Apr. 1.
Rotary tooth cleaner. C. A. and E. L. Gooley. 2,591,147, Apr. 1.
Rotating continuous combustion type combustion products generator and reaction turbine. F. Jonker. 2,591,549, Apr. 1.
Router. E. Pedron. 2,591,002, Apr. 1.
Rubber polymersulfur dioxide filaments, Producing. J. T. Hackmann. 2,591,254, Apr. 1.
Rust preventive. L. E. Moody and J. W. Hand, Jr. 2,591,583, Apr. 1.
Rustproofing and using concrete reinforcing elements. H. L. Simonsson and T. L. Ulfstedt. 2,591,625, Apr. 1.
Rust remover for cooling systems of automobile engines. M. A. Beck. 2,591,228, Apr. 1.
Safety mechanism for centrifugal separators. J. E. Tholl. 2,591,317, Apr. 1.
Saw sharpener. J. McEwan. 2,590,992, Apr. 1.
Scale, Mixing. B. Wilson. 2,591,034, Apr. 1.
Scissors, Combined thinning and shaping. W. D. Sansom. 2,591,014, Apr. 1.
Scraping tool. E. P. Heller. 2,590,966, Apr. 1.
Screen and lens calculator. H. E. Freeman. 2,591,058, Apr. 1.
Screen for vehicles, Window. V. C. Brown. 2,591,232, Apr. 1.
Screen supported paper bag for tank cleaners. A. E. Smith. 2,591,382, Apr. 1.
Sealing and dispensing closure for container necks. O. E. Boadway. 2,591,231, Apr. 1.
Sealing ring. W. T. Green. 2,590,961, Apr. 1.
Sealing tab and bookmark, Combined. J. O'Neill. 2,591,094, Apr. 1.
Seam welded blanks and making them. K. L. Schiff. 2,591,302, Apr. 1.
Seat: *See*—
Divided car seat.
Seat construction, Movably supported spring. H. C. Flint. 2,591,347, Apr. 1.
Seismic surveying. W. H. Mayne. 2,591,177, Apr. 1.
Seismic surveying. J. O. Parr, Jr. 2,591,192, Apr. 1.
Selective color display projection apparatus. M. H. Harris and R. E. McKee. 2,591,428, Apr. 1.
Selector valve. J. R. Snyder. 2,591,102, Apr. 1.
Separable electrical connector. A. L. Riche. 2,591,009, Apr. 1.
Separating colloidally dispersed iron particles from organic liquids. E. Mitchell. 2,590,997, Apr. 1.
Separation of coke-oven gas, Process and apparatus for the. P. J. Haringhuizen. 2,591,658, Apr. 1.
Separator: *See*—
Centrifugal separator.
Crossbelt magnetic separator.
Separator and dispenser, Powder. R. F. Berndt. 2,591,043, Apr. 1.
Separator for antifriction bearings. L. D. Cobb. 2,590,939, Apr. 1.
Sewing machine. T. Van Tuyl and F. Ackermann. 2,590,907, Apr. 1.
Sewing-machine thread cutter. F. H. Loomis. 2,591,447, Apr. 1.
Shaded pole motor. E. W. Ballentine. 2,591,117, Apr. 1.
Shaver head. L. C. Carissimi. 2,591,403, Apr. 1.
Shaving appliance. A. H. Pitchford. 2,591,288, Apr. 1.
Shaving implement. J. L. Kleinman. 2,590,871, Apr. 1.
Shears, Grass. C. Sekely. 2,591,620, Apr. 1.
Sheet-metal receptacle forming machine. R. M. Koch. 2,591,439, Apr. 1.
Sheet separating and forwarding machine. H. T. Backhouse. 2,591,116, Apr. 1.
Shifting bolster transfer mechanism. W. C. Hodges. 2,591,153, Apr. 1.
Ship's hatch cover. J. MacGregor. 2,590,985, Apr. 1.
Shoe, Adjustable. B. D. Spencer. 2,591,211, Apr. 1.
Shoeshining or buffing device. W. C. Dickson. 2,591,341, Apr. 1.
Shoe wax applicator and polisher, Finger held double-faced. G. E. Kay. 2,590,977, Apr. 1.
Shoulder mortar. C. E. Simpson. 2,590,897, Apr. 1.
Shoulder piece. R. P. J. Petit. 2,591,372, Apr. 1.
Shoulder rest for violins, Removable. M. Klein. 2,591,164, Apr. 1.
Side mount pillow block bearing. R. H. Whiteley. 2,591,221, Apr. 1.
Sighting device for weapons. A. Gerber. 2,590,954, Apr. 1.
Signboard, Collapsible. G. R. Asachika. 2,591,494, Apr. 1.
Signal apparatus, Program. M. A. Blouin. 2,591,335, Apr. 1.
Signal responsive circuit. J. P. Eckert, Jr., and J. W. Mauchly. 2,590,950, Apr. 1.
Signal transformer. R. S. Curry, Jr. 2,590,845, Apr. 1.
Signaling wand for flashlights. F. Lehoczki. 2,591,269, Apr. 1.
Skid chain. G. E. W. Drechsel. 2,591,241, Apr. 1.
Slicing machine and method. R. M. Magnuson. 2,590,987, Apr. 1.
Sliding support mechanism. D. E. Hartman. 2,591,066, Apr. 1.
Soldering apparatus. C. Habel. 2,591,065, Apr. 1.
Sound recording system. L. B. Browder. 2,591,045, Apr. 1.
Spaced-pulse impulse sender. D. B. Parkinson. 2,590,885, Apr. 1.
Spark plug. R. M. Simon. 2,591,019, Apr. 1.
Spark screen and draught curtain for fireplaces, Combination. L. A. Stretz. 2,590,903, Apr. 1.
Splitter vane construction for gas valves. A. Kalitinsky. 2,590,976, Apr. 1.
Spongious cleaning device. P. F. Webster. 2,591,481, Apr. 1.
Spray gun, Paint. A. Di Stefano. 2,590,848, Apr. 1.
Spraying device. J. W. Moore. 2,591,585, Apr. 1.
Sprinkler. I. Jepson. 2,591,073, Apr. 1.
Sprinkler head for use on underground water systems. L. R. Nelson. 2,591,282, Apr. 1.
Spring-driven motor. E. W. Hobbs. 2,591,260, Apr. 1.
Stabilization of dilute solutions of aliphatic acids. F. P. Greenspan and D. G. MacKellar. 2,590,856, Apr. 1.
Stabilization of frequency-modulated oscillators. W. D. Hershberger. 2,591,257, Apr. 1.
Stabilized electrical synchronizing system. F. A. Lindley and F. M. Arbuckle. 2,591,660, Apr. 1.
Stabilized organic compositions containing bis(hydroxy alkoxy phenyl) alkanes. D. W. Young. 2,591,651, Apr. 1.
Stand: *See*—
Flowerpot stand. Portable screen stand.
Starter for internal-combustion engines. R. Lehman. 2,591,445, Apr. 1.
Steam generating apparatus. W. H. Rowand and C. S. Smith. 2,591,299, Apr. 1.
Steelmaking process. F. Cremer. 2,590,843, Apr. 1.
Stocking and producing same. C. W. Livingston. 2,591,566, Apr. 1.
Stop motion device for knitting machines. J. S. Carter. 2,591,405, Apr. 1.
Stove, Cooking. C. Cornelius. 2,590,942, Apr. 1.
Strain relief for electrical connectors. S. L. Pedersen. 2,590,886, Apr. 1.
Strand handling tool. J. T. Kane. 2,591,550, Apr. 1.
Structure for drilling wells in deep water. M. H. Parks. 2,591,599, Apr. 1.
Stud stamping machine. S. Straty. 2,591,473, Apr. 1.
Studio background. E. L. Hilchey. 2,591,068, Apr. 1.
Subdivided coded railway track circuit. H. G. Blosser. 2,590,924, Apr. 1.
Successively operated independent actuator tens transfer mechanism. E. K. Grip. 2,591,064, Apr. 1.
Suction cleaner with self-retracting electrical cord. D. C. Gerber. 2,591,250, Apr. 1.
Support: *See*—
Adjustable seat support. Retractable flap support.
Panel joint support.
Support for cup type mop wringers. B. E. Rorem. 2,591,468, Apr. 1.
Supporting and content dispensing attachment for collapsible tubes. D. E. Marshall. 2,591,455, Apr. 1.
Surface mounted closure remover with cover. M. Famely. 2,591,527, Apr. 1.
Surgical suture. H. Goldberg. 2,591,063, Apr. 1.
Sweeper mechanism, Bowling alley. H. S. Johns and W. H. Johns. 2,591,265, Apr. 1.
Switch: *See*—
Electrical switch.
Magnetic and manually operated electric switch.
Switch actuator for model railroads. O. C. Hewett. 2,591,152, Apr. 1.
Switch plate for toggle switches, Timer. T. L. Clayton. 2,590,840, Apr. 1.
Syringe operating device. H. F. Maynes. 2,591,457, Apr. 1.
System for measuring magnetic fields. E. G. Kogbetliantz. 2,590,979, Apr. 1.
Table with rotatable center, Serving. A. E. Thiel. 2,591,215, Apr. 1.

Tamping or stemming plug. S. A. Morton. 2,590,882, Apr. 1.
Tee bag holder. F. C. Reed. 2,591,606, Apr. 1.
Telemetering system, Automatic. H. C. Savino. 2,591,617, Apr. 1.
Television receiver. P. J. H. Janssen. 2,591,264, Apr. 1.
Temperature control device. E. F. Weiser. 2,591,392, Apr. 1.
Temple for ophthalmic mountings, Making a. G. R. Hoffmaster. 2,591,154, Apr. 1.
Tenter drier. M. Shegda. 2,591,621, Apr. 1.
Thermocouple bridge. D. T. Imler. 2,591,358, Apr. 1.
Thermoplastic cellulose acetate composition, Producing a. B. T. Lamborn. 2,591,077, Apr. 1.
3-methoxy-4-methoxymethyl tetrahydropyram. O. C. Dermer and J. J. Hawkins. 2,591,239, Apr. 1.
Thyroprotein feed, Making a. C. W. Turner and E. P. Reineke. 2,591,107, Apr. 1.
Timber setting machine. F. E. Sullinger. 2,591,475, Apr. 1.
Timer, Multirelay electric. R. P. Boyer, Jr., and J. I. Bellamy. 2,590,926, Apr. 1.
Timing movement. A. B. Campbell. 2,591,402, Apr. 1.
Tire pressure equalizer. H. P. Deitz. 2,591,340, Apr. 1.
Tire retreading mold. E. W. Hawkinson. 2,591,430, Apr. 1.
Tongs, Coal. B. H. Bible. 2,591,499, Apr. 1.
Tool: *See*—
Insulation slitting tool. Strand handling tool.
Scraping tool.
Tool for hose clamps, Wire bending and clenching. J. J. Jelinek. 2,591,158, Apr. 1.
Tool for removing overflow tube threads in toilets. J. F. Dahl. 2,591,409, Apr. 1.
Toolholder. G. C. Austin. 2,591,115, Apr. 1.
Tool rack for meat blocks. B. Berg. 2,591,229, Apr. 1.
Top roll assembly. O. R. Rowe, G. Schoeneck, and W. J. Stolp. 2,591,612, Apr. 1.
Toy, Animated mechanical. H. Saito. 2,591,469, Apr. 1.
Toy purse combination. L. M. Schradermeier. 2,591,379, Apr. 1.
Tractor hitch. M. C. Siebels. 2,591,624, Apr. 1.
Tractor hoist. H. J. Hunsaker and D. C. McCullough. 2,591,435, Apr. 1.
Tractor hoist. D. K. Struthers and G. W. Schroeder. 2,591,662, Apr. 1.
Traffic protection apparatus. H. S. Young. 2,591,035, Apr. 1.
Transformer metadyne. J. M. Pestarini. 2,590,887, Apr. 1.
Transformerless saw-tooth current generator. R. R. Gannaway. 2,591,249, Apr. 1.
Transmission. A. Y. Dodge. 2,591,342, Apr. 1.
Traveling-wave electron reaction device. E. J. Gorn. 2,591,350, Apr. 1.
Tray for fractionating equipment. A. C. Eld. 2,591,343, Apr. 1.
Tray, Wet clothes. L. Rodefer. 2,591,467, Apr. 1.
Treating selvage edges of textile sheet material. F. A. Sunderhauf. 2,591,385, Apr. 1.
Treating sewage. H. O. Halvorson. 2,590,964, Apr. 1.
Treating sheet material coated with gelatine. J. Dungler. 2,590,850, Apr. 1.
Treatment of isomeric ester mixtures. L. Weisler. 2,591,110, Apr. 1.
Tri-alkenyl benzene. D. T. Mowry. 2,591,587, Apr. 1.
Tri- and tetra-isobutylene, Production of. D. R. Stevens and R. S. Bowman. 2,591,384, Apr. 1.
Tricycle and bicycle, Combination. M. J. Gallo and J. W. Gallo, Jr. 2,591,534, Apr. 1.
Trigger guard for firearms, Rotatable. E. M. Harvey. 2,590,858, Apr. 1.
Trigger mechanism, Adjustable. F. D. Hoppert. 2,590,862, Apr. 1.
Trimming and slitting machine for quilts and the like. D. Barth. 2,591,394, Apr. 1.
Trip and reset mechanism for float operated liquid fuel controlling valves. C. H. Millerwise. 2,591,581, Apr. 1.
Tripod. B. C. Caldwell. 2,591,051, Apr. 1.
Truck box cover. R. A. Neitzke. 2,591,186, Apr. 1.
Trunk circuit. R. B. Curtis. 2,590,945, Apr. 1.
Truck, Stacking. J. J. Hegarty. 2,591,544, Apr. 1.
Tube and manufacturing such tubes, Cathode-ray. J. de Gier. 2,591,521, Apr. 1.
Tube of the high-frequency and high-power type, Electron. W. W. Salisbury. 2,591,012, Apr. 1.
Turf engaging element for cultivating apparatus. T. C. Mascaro. 2,591,572, Apr. 1.
Two-stroke cycle internal-combustion engine with slide valve. J. T. M. Schlamann. 2,591,619, Apr. 1.
2-vinyl-thiazole. L. A. Brooks, M. Markarian, and M. Nazzewski. 2,591,506, Apr. 1.
Typewriter keyboard. R. L. Smith. 2,591,310, Apr. 1.
Umbrella cover construction and tip therefor. Max and Matthew Ornstein. 2,591,095, Apr. 1.
Vacuum cleaner. G. E. Lofgren and A. Peterson. 2,591,567, Apr. 1.
Vacuum cleaner with detachable reel-and-handle unit. B. J. Tamarin. 2,591,214, Apr. 1.
Vacuum pumping apparatus. J. H. Black and H. G. Warren. 2,591,334, Apr. 1.
Vacuum type food container. J. P. Hansen and F. A. Wilmot. 2,591,151, Apr. 1.
Valve: *See*—
Automatic shutoff valve. Pressure responsive valve.
Excess flow control valve. Push type drain valve.
Flow control valve. Selector valve.
Fluid valve. Venturi intake valve.
Gate valve. Well pump valve.
Lubricated plug valve.
Valve. W. Harrower. 2,591,429, Apr. 1.
Valve device. A. J. Bent. 2,591,118, Apr. 1.
Valve operating mechanism. R. H. Thompson and H. Harvey. 2,591,216, Apr. 1.
Valve structure, Solenoid-operated. I. R. Versoy. 2,591,030, Apr. 1.
Variable delivery positive displacement pump. R. Amsler. 2,591,491, Apr. 1.
Variable electrical condenser. H. M. Wadsworth. 2,591,644, Apr. 1.
Variable weight provision for pressing irons. M. A. Simon. 2,591,018, Apr. 1.
Vegetable cutter. W. P. Westby and M. P. Hanson. 2,590,909, Apr. 1.
Vegetable packing apparatus, Collapsible. C. E. Huston. 2,590,965, Apr. 1.
Vehicle: *See*—
Jet-propelled wheeled vehicle.
Vehicle gas turbine free wheel overdrive. S. H. Grylls. 2,591,540, Apr. 1.
Vehicle jack. A. Jensen. 2,590,970, Apr. 1.
Vehicle radiator cap. J. T. Levell. 2,591,562, Apr. 1.
Vehicle unloader, Automatic. R. Knutson. 2,591,556, Apr. 1.
Venturi intake valve. W. J. Huber. 2,591,156, Apr. 1.
Vernier scale measuring device. R. B. Bellmer. 2,591,333, Apr. 1.
Vibration isolator. G. J. Muller. 2,591,461, Apr. 1.
Video blanking circuit. J. Millman and R. C. Allen. 2,591,088, Apr. 1.
Voltage unbalance indicating system. A. G. Clarke. 2,591,511, Apr. 1.
Vulcanization of rubber. R. B. Hill. 2,591,547, Apr. 1.
Wash mitts, Making. W. J. Lorenz. 2,590,983, Apr. 1.
Washing and drying machine. D. W. Smith. 2,591,209, Apr. 1.
Washing machine. C. O. Rasmussen. 2,591,290, Apr. 1.
Water- and flameproofing composition. J. F. McCarthy. 2,591,368, Apr. 1.
Water heater system. A. J. Burklin. 2,591,400, Apr. 1.
Water injecting system for internal-combustion engines. L. L. Littlejohn and J. C. Gullett. 2,591,272, Apr. 1.
Web drying device. F. Sibel. 2,591,307, Apr. 1.
Weed killing apparatus, Electric. F. W. and W. H. Opp. 2,591,597, Apr. 1.
Welding transformer. G. Monette. 2,591,582, Apr. 1.
Wellhead. J. E. Eckel. 2,591,142, Apr. 1.
Well logging apparatus. A. B. Long. 2,590,982, Apr. 1.
Well pump valve. J. N. Martin. 2,591,174, Apr. 1.
Wetting baled tobacco, Method and apparatus for. R. D. Touton. 2,591,026, Apr. 1.
Wheel: *See*—
Portable Ferris wheel.
Wheel adjuster. M. R. Grismore. 2,591,253, Apr. 1.
Wheel assembly, Vehicle. W. A. Stanitski. 2,591,631, Apr. 1.
Wheel chock. R. H. George. 2,591,348, Apr. 1.
Wheel suspension and steering assembly. S. C. Moon. 2,591,584, Apr. 1.
Wide angle lens construction. F. G. Back and H. Lowen. 2,590,917, Apr. 1.
Window cleaning and the like device. D. H. Adams. 2,590,913, Apr. 1.
Wire former and stripper. B. C. Whiting. 2,591,649, Apr. 1.
Wire reel. S. F. Redo. 2,590,890, Apr. 1.
Wire spring structure. W. H. Neely. 2,591,185, Apr. 1.
Wire-straightening fixture. S. G. Blumensaadt. 2,591,123, Apr. 1.
Wrench: *See*—
Power-operated impact wrench.
Wrench having nut-actuated and slidable cam-wedge, Pivoted-jaw. F. O. Thompson. 2,591,636, Apr. 1.
Wrist watch and bracelet. B. Lazrus. 2,591,078, Apr. 1.
X-ray film exposure holder. F. W. Reuter. 2,590,892, Apr. 1.
Yarns from hydroxylated polyvinyl compounds, Manufacture of. N. Drisch and P. Herrbach. 2,591,242, Apr. 1.
Zipper closure. F. E. Perry. 2,591,193, Apr. 1.

CLASSIFICATION OF PATENTS

ISSUED APRIL 1, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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U. S. GOVERNMENT PRINTING OFFICE : O—1952

Condition of Applications Under Examination at Close of Business March 14, 1952

Total number of patent applications awaiting action, 102,660. Date of oldest new application, May 18, 1951; date of oldest amended application, May 16, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	6-6-51	6 4-51	2153
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	8-24-51	8-24-51	1113
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	8-10-51	8-8-51	1606
4. FALLER, E. A. (Acting Chief), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	5-28-51	5-28-51	1902
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	7-31-51	7-26-51	1260
6. SURLE, H., Carbon Chemistry (part)	6-6-51	6-12-51	1830
7. GONSALVES, J. E., Optics; Photography (part)	8-10-51	8-13-51	1237
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	6-1-51	6-1-51	1763
9. BRANSON, J. H. (Acting), Pumps and Fans; Fluid Motors	6-5-51	6-4-51	1499
10. ANDRUS, L. M., Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles	6-4-51	5-28-51	1359
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	6-16-51	5-17-51	946
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	6-8-51	5-28-51	1175
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	5-25-51	5-26-51	1364
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	6-1-51	6-4-51	1659
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	8-16 51	8-16-51	1099
16. LOVEWELL, N. N., Television, Telephony	5-25-51	5-25-51	1248
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	6-4-51	6-5-51	1947
18. KURZ, J. A., Power Plants; Speed Responsive Devices	6-1-51	6-4-51	1314
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	6-4-51	6-7-51	1101
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	6-22-51	6-22-51	1429
21. MADER, R. C., Textiles	5-28-51	5-28-51	1390
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	6-13 51	6-15 51	1142
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	5-25-51	5-23-51	841
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	7-16-51	7-16-51	1475
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	7-2-51	6-27-51	1168
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	6-7-51	6-4-51	1211
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	6-20-51	6-19-51	1563
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	6-16-51	6-12-51	1389
29. HABECKER, L. B., Button Making; Woodworking; Tools	6-23-51	6-14-51	1099
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	7-23-51	7-23-51	1514
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	7-13-51	7-6-51	1997
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-16-51	6-20-51	1202
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	6-12-51	6-9-51	2064
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	6-16-51	6-12-51	1364
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	5-31-51	6-1-51	1529
36. McFADYEN, A. D., Measuring and Testing	6-2-51	6-4-51	1300
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	7-2-51	7-3-51	1236
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	6-16-51	6-16-51	1488
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	6-20-51	6-20-51	2579
40. DRUMMOND, E. J., Receptacles (part); Packages	6-16-51	6-14-51	1477
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	6-2-51	5-31-51	1228
42. MARANS, H., Electric Signaling (part, except submarine, altimeters, distance or direction measuring, and object detection); Signals; Telegraphy (part); Signals and Indicators.	6-20-51	6-14-51	1150

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 102,660. Date of oldest new application, May 18, 1951; date of oldest amended application, May 16, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	7-16-51	7-18-51	1234
44. HARVEY, L. P., Beds; Chairs, Seats	6-1-51	6-6-51	1430
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	6-14-51	6-19-51	1360
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	6-14-51	6-16-51	905
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	7-6-51	6-21-51	1385
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	6-4-51	6-4-51	1627
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	6-6-51	6-5-51	1514
50. LEVIN, S., Synthetic Resins	8-27-51	8-25-51	1495
51. YAFFEE, S., Radiant Energy (part e. g., radio signaling); Radiant Energy Communications (part e. g., duplex, multiplex, device control); Modulators; Music; Piezoelectric crystals.	5-22-51	5-23-51	1314
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	6-15-51	6-15-51	2123
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	7-14-51	7-5-51	1060
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	6-14-51	6-15-51	1642
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	6-23-51	6-27-51	1111
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	7-5-51	7-2-51	1799
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	6-16-51	6-14-51	1836
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators.	6-25-51	6-14-51	999
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	6-19-51	6-4-51	1124
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	6-27-51	6-6-51	1100
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	6-8-51	6-13-51	1258
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	6-21-51	6-6-51	1441
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	6-21-51	6-21-51	1567
64. NASH, P. M., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	8-16-51	8-10-51	1752
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	6-25-51	6-18-51	1467
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	6-4-51	6-2-51	1094
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	6-18-51	6-15-51	1237
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	6-5-51	6-4-51	1706
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	6-7-51	6-6-51	1324
70. BREWRINK, J. L., Radiant Energy (part, e. g., oscillation generators, mass spectrometry); Radiant Energy, Communications (part e. g., radar, directive); Electric Signal (part e. g., submarine, altimeters, distance or direction measuring, and object detection).	5-18-51	5-16-51	2964
DESIGNS: A. BREHM, G. L., Industrial Arts	11-16-51	12-1-51	645
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	11-16-51	12-21-51	728

Total number of trade-mark applications awaiting action (including renewals and republications), 14,786. Date of oldest new application, August 26, 1951; date of oldest amended application, August 28, 1950.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	8-26-51	8-28-51	4631
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	9-20-51	9-20-51	3110
Renewals (All Classes)	1-11-52	2-9-52	744
Republications (All Classes)	1-1-52	2-9-52	194
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	9-26-51	9-21-51	3397
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	1-10-51	10-8-51	2710

DECISIONS IN PATENT AND TRADE-MARK CASES

United States Court of Appeals District of Columbia Circuit

CLARKSON MANUFACTURING COMPANY, A CORPORATION

v.

MARZALL, COMMISSIONER OF PATENTS

No. 10,936. Decided February 14, 1952

[— F.2d —; 92 USPQ 224]

1. PATENTABILITY — INVENTION — IMPROVED RESULT NOT CONCLUSIVE.

Where the applicant improved on prior mining machines by (1) mounting the discharge conveyor on a type of pivot which permitted greater maneuverability thereof and (2) by adding a second hydraulic jack for independent control of the two conveyor sections, *Held* that, since the use of pivoted conveyors was known, the substitution of a pivot permitting a greater angle of dip, or the addition of a second hydraulic jack, would require no more than the application of standard mechanical skills, even though the result constituted an improvement over any of the cited art.

2. SAME — PARTICULAR SUBJECT MATTER — MINING MACHINE.

Certain claims to a coal mining machine *Held* unpatentable over the cited prior art as involving no more than the application of standard mechanical skills.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

John H. Bruninga (*Richard G. Radue* of counsel) for Clarkson.

E. L. Reynolds (*H. S. Miller* of counsel) for the Commissioner of Patents.

Before KIMBROUGH STONE, *Circuit Judge* (Retired) sitting by designation, and FAHY and WASHINGTON, *Circuit Judges*

WASHINGTON, *Circuit Judge*:

This is a suit under R. S. 4915, 35 U. S. C. § 63, to obtain a patent on a piece of mining equipment.

Appellant's machine is used in the loading of coal in the mine. It suggests, in its general outline, a mechanical crocodile. The head (the "load-gatherer") is equipped with steel teeth which bite into the coal; the body ("chassis"), which rests on wheels, carries the operator and contains the motor and controls. A conveyor system starts at the head and runs back over the body, ending in an extended "conveyor-boom" or tail. This carries the loose coal from the face of the vein and discharges it into a car at the rear of the machine.

The feature of the machine stressed by appellant in the present suit relates to the construction of the conveyor-boom.[1] It appears that most earlier machines used in the industry had rigid booms[2] which protruded upward to such an extent that they frequently became wedged against the low, irregular ceilings of the mine tunnels.

Appellant has met this problem by hinging the conveyor-boom about half-way down its length, jointing it in such fashion as to permit extensive downward movement. The jointed boom is equipped with two hydraulic jacks, enabling the operator to raise or lower the two sections of the conveyor independently. As a result of this flexibility, the conveyor system can be depressed to such an extent that the whole machine can enter tunnels of minimum height (said to be as low as 28 inches), and can accommodate itself to dips or rises in the mine floor and ceiling. Substantial commercial success has been the result.

Appellant's achievement in giving flexibility to the conveyor-boom was not, however, unanticipated. Whaley had already patented a coal-mining machine having a hinge or pivot in the middle of the boom; this was so designed as to allow the operator to depress the tail of the boom sufficiently to keep it parallel to the main chassis. A hydraulic jack, controlled by the operator, was provided to power the up-and-down movement. Whaley, No. 1,839,625, January 5, 1932. Further, McCraw had patented a conveyor system for logs, which disclosed how independently controlled pivots could be inserted at various points in such a conveyor, so as to deliver material at a high level or a low, as desired by the operator. McCraw, No. 2,141,482, December 27, 1938. Other patents also pointed toward a solution of the same general problem.[3]

[1] This suit, brought by plaintiff-appellant as assignee of John L. Clarkson and Allton B. Jackson, relates only to claims 22–29, inclusive, of the application. (Application No. 349,488, filed August 2, 1940; continued by No. 517,295, filed January 7, 1944.) Certain other claims of the application have been granted. In addition, appellant has been granted a patent covering the loader-gatherer portion of the machine. (No. 2,370,147, February 27, 1945.)

[2] See Joy, No. 1,619,260, March 1, 1927; Cartlidge, No. 2,062,555, December 1, 1936; Doberstein, No. 2,210,655, August 6, 1940; Cartlidge, No. 2,216,546 October 1, 1940. The boom in Joy, though in a single rigid section, swings in a vertical plane and can be raised and lowered by a hydraulic jack.

[3] See the patent to Joy, described in footnote 1, supra, and the patent to Levin, No. 2,047,589 (the boom is jointed, the rear section yielding to prevent lodgment against the ceiling).

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Appellant improved on Whaley (1) by substituting a pivot of a type which permitted greater maneuverability of the tail section, and (2) by adding a second hydraulic jack so that the two sections of the boom could be raised or lowered separately. Practical improvement over the McCraw concept, as applied to coal mining, was also substantial. The Patent Office considered, however, that these improvements were obvious and did not involve more than the application of standard mechanical skills. The claims in suit were therefore rejected on the ground, inter alia, of lack of invention. The district court made like findings.

[1] Our examination of the prior patents and of the testimony and exhibits leads us to the conclusion that these determinations of the Patent Office and the district court had a reasonable basis. Indeed, we do not see how they could have found otherwise. Once the use of a pivoted conveyor became known to the industry through Whaley's machine, the substitution of a pivot similar in character but permitting a greater angle of dip would hardly appear novel or unexpected. The same can be said of the addition of a second hydraulic jack. *Toledo Pressed Steel Co.* v. *Standard Parts Inc.*, 307 U. S. 350, 504 O. G. 845. The fact that the McCraw machine was patented as a conveyor for logs does not, of course, make its disclosures irrelevant in the coal mining context, *Reed* v. *Coe*, 76 U. S. App. D. C. 369, 132 F.2d 599, 546 O. G. 419, nor does its lack of hydraulic mechanisms deprive it of present consequence. *Cuno Engineering Corp.* v. *Automatic Devices Corp.*, 314 U. S. 84, 89–91, 534 O. G. 699; *Gilbert* v. *Marzall*, 87 U. S. App. D. C. 1, 6, 182 F.2d 389, 394, 637 O. G. 981.

[2] In view of this conclusion, we do not reach the other contentions of the parties. The judgment of the district court will accordingly be affirmed.

AFFIRMED.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,821,032, J. Robinson, Wave-signalling system; 1,821,033, same, Radio receiving apparatus; 1,898,895, same, Electrical apparatus employing piezo-electric devices; 1,908,538, same, Wireless receiver, D. C., S. D. N. Y., Doc. 68/338, *F. A. Dean* v. *The Hammarlund Mfg. Co., Inc.* Plaintiff's notice of dismissal (notice Feb. 25, 1952).

1,821,033. (See 1,821,032.) 1,898,895. (See 1,821,032.)

1,908,538. (See 1,821,032.)

2,230,818, P. O. Stewart, Machine and method of making terminals; 2,293,506, 2,434,159, A. W. Hoernle, Machine for making terminals, filed Feb. 21, 1952, D. C., S. D. N. Y., Doc. 73/267, *Stewart Stamping Corp. et al.* v. *Westchester Products Co. et al.*

2,259,442, A. V. Galli, Lubricator for rotary looptakers in sewing machines, filed Feb. 27, 1952, D. C., S. D. N. Y., Doc. 73/295, *A. V. Galli* v. *Necchi Sewing Machine Sales Corp.*

2,293,506. (See 2,230,818.) 2,434,159. (See 2,230,818.)

2,441,482, E. D. Gerry, Shoulder pad construction, D. C., S. D. N. Y., Doc. 48/286, *E-Z Thread Co.* v. *Betty Dain Creations, Inc.* Stipulation and order of dismissal (notice Feb. 23, 1952).

2,475,399, E. B. Nelson, Thread bobbin and method of making, filed Feb. 21, 1952, D. C. Conn. (New Haven), Doc. 3654, *The Lloyd E. Cone Thread Co.* v. *The American Thread Co.*

2,488,444, W. H. St. Thomas, Combination purse and bill fold; 2,512,588, same, Combination billfold, purse and pocket case, filed Feb. 25, 1952, D. C., S. D. N. Y., Doc. 73/281, *St. Thomas, Inc.* v. *Ainslee Leather Mfg. Corp.*

2,498,374, F. E. Martin, Method and article for treatment of mammary glands, D. C., S. D. Ind. (New Albany), Doc. 402, *Martin Laboratories* v. *Schenley Laboratories, Inc.* Judgment that plaintiff is not entitled to relief Feb. 19, 1952.

2,512,588. (See 2,488,444.)

2,549,477, E. C. Kiekhaefer, Gear case unit for outboard motor; 2,549,483, same, Tilt handle above the center of gravity on outboard motor housings; 2,549,484, same, Underwater gear unit for outboard motors; 2,549,485, same, Outboard motor protecting rim; 2,549,486, same, Steer mounting for outboard motors; 2,555,548, same, Drive shaft housing for outboard motor, filed Feb. 21, 1952, D. C., E. D. Wis. (Milwaukee), Doc. 5511, *E. C. Kiekhaefer* v. *John Pritzlaff Hardware Co.*

2,549,483. (See 2,549,477.) 2,549,484. (See 2,549,477.)

2,549,485. (See 2,549,477.) 2,549,486. (See 2,549,477.)

2,555,548. (See 2,549,477.)

2,570,110, H. Glatt, Ironing pad cover, filed Feb. 27, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. C–12474, *Magla Products* v. *Gibralter Household Products Co., Inc.*

2,584,722, E. M. London, Moth proofing resistant plastic garment bag, suit for declaratory judgment filed Feb. 21, 1952, D. C., S. D. N. Y., Doc. 73/245, *Harjax Products Corp.* v. *A. L. Siegel Co., Inc.*

Des. 151,732, W. G. Bley, Lady's stocking, D. C. N. J. (Newark), Doc. 1009/49, *Sanson Hosiery Mills, Inc.* v. *D. Fast.* Consent decree of dismissal Feb. 20, 1952. Doc. 40/50, *Sanson Hosiery Mills, Inc., et al.* v. *Irvington Textile Co., Inc.* Order for injunction Feb. 25, 1952.

Des. 162,139, S. Harfenist, Raccoon cap with raccoon tail, filed Feb. 26, 1952, D. C., S. D. N. Y., Doc. 73/288, *Artic Fur Cap Corp.* v. *H. Freiman et al.*

Des. 162,985, J. F. Punzak, Liquid serving unit, filed Feb. 26, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. c–12472, *United Metal Goods Mfg. Co., Inc.* v. *La Belle Silver Co., Inc., et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 122,828, Swift & Co., Oleomargarine; T. M. 140,225, same, Lard, ham, bacon, etc.; T. M. 261,221, same, Gelatin, filed Feb. 8, 1952, D. C., N. D. Calif. (San Francisco), Doc. 31243, *Swift & Co.* v. *Premium Frozen Food Products, Inc.*

T. M. 140,225. (See T. M. 122,828.)

T. M. 261,221. (See T. M. 122,828.)

T. M. 341,156, Gordon's Dry Gin Co., Ltd., Gin, D. C., S. D. N. Y., Doc. 67/249, *Gordon's Dry Gin Co., Ltd.* v. *Max Gordon et al.* Consent judgment holding infringement, injunction Feb. 26, 1952.

NOTICES

New Ground of Rejection in Examiner's Answer — Time for Filing Reply

Where a new ground of rejection is raised in the Examiner's answer to the brief filed in an application on appeal, the appellant will be allowed sixty days within which he may file a reply, instead of the twenty days now permitted by Rule 193(b). The appellant's reply, insofar as the new ground of rejection is concerned, may include any amendment or material appropriate to the new ground. The Board of Appeals in its discretion may remand the case to the Examiner to consider such amendment or material. In the event of remand, consideration will be limited to amendments and facts pertinent to the new ground of rejection.

JOHN A. MARZALL,
Commissioner.

Adjudicated Patent

(C. A. Md.) Anderson Patent No. 2,480,093, for a method of and apparatus for pumping liquid oxygen. Claims 11, 13, and 19 *Held* invalid. *Boston Metals Company* v. *Air Products Incorporated*, 193 F.2d 535; 92 USPQ 80.

Disclaimer

2,342,551.—*David Levkoff*, Brooklyn, N. Y. FOLDING BOX. Patent dated Feb. 22, 1944. Disclaimer filed Mar. 14, 1952, by the inventor, and the assignees, *Evelyn G. Levkoff*, *Henry S. Levkoff*, and *Edith Rose Levkoff*.

Hereby enter this disclaimer to claims 4, 5, and 6 and from the scope of claim 7 of said patent, any folding boxes embodying the construction of claims 4, 5, and/or 6.

2,552,428.—*Alexander B. Hildebrandt*, Tulsa, Okla. SLEEVE SUPPORTED ELECTRODE FOR WELL LOGGING. Patent dated May 8, 1951. Disclaimer filed Feb. 27, 1952, by the assignee, *Standard Oil Development Company*.

Hereby enters this disclaimer to claims 1 and 2 of said patent.

Classification Order No. 120

February 20, 1952

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ABOLISH SUBCLASSES

in *Class 45, Furniture* (Division 8)

2 File cabinets
3 Revolving

in *Class 92, Paper Making and Fiber Liberation* (Division 56)

Finishing
Calenders
77 Rolls

in *Class 128, Surgery*

Instruments
Ring, tag, hair, etc., inserters
331 Ear
332 Nose

in *Class 140, Wireworking*

Fabric making
Implements
55 Clip affixing

CHANGE CLASS TITLE

change the title of Class 1 to read:

Nailing, Stapling and Clip Clenching

CHANGE SUBCLASS TITLES

in *Class 1, Nailing, Stapling and Clip Clenching* (Division 11), change the unnumbered subclass title "Machines", following subclass 44, to read:

Nailing and stapling machines.

and change the unnumbered subclass title "Implements", following subclass 45, to read:

Nailing and stapling implements.

in *Class 53, Package Making*, change the titles of subclasses 16, 43, 46 and 89 to read:

Methods (banding here)
16 Closing packages and filled receptacles
Automatic or triggered control
43 Of closing packages and filled receptacles
46 With alarms, signals, indicators, inspection means or counters
89 Forming or partially forming receptacle and subsequently filling

in *Class 192, Clutches and Power-Stop Control*, change the title of subclass 8 to read:

Transmission control and brake
Automatic brake
8 Responsive to drive release

ESTABLISH SUBCLASSES

in *Class 1, Nailing, Stapling and Clip Clenching* (Division 11)

(S. M. NEWMAN and C. G. SMITH, *Classifiers*)

60 Methods (to precede all subclasses)
62 Continuously moving work
64 Preformed opening for applied element
66 Combined
68 Embracing work or work part
70 Making open loop or bridge
72 Plural intercooperating applied elements
74 Inserting and clenching from single work side
76 Applied element integral with work
78 Preplaced applied element
80 Plural simultaneous application
82 With applied element making
84 Intermittent work feed
160 Work presence triggered (to precede and be coordinate with subclass 49.5)
163 Work released by continued application movement
165 Work feeding or ejecting
170 With auxiliary work gripping clamp

175 **With applied element making**
177 Feeding and cutting of element stock
185 **Selective alternative applying means**
187 **Magazine supply of elements**
200 **Combined**
210 **With clenching bender for element**
212 Concave curved die
215 Plural opposed
217 Element forward end receiving
220 Pivotally moving opposing surfaces
222 With coacting work support
224 Moving relative to pivot
260 **Miscellaneous** (to follow and be coordinate with subclass 56)

in *Class 51, Abrading* (Division 58)

(C. W. TOMLIN, *Classifier*)

Tools flexible
Rotary cylinder
Laminated
193.5 With flexible flails
193.7 With abrasive strip magazine

in *Class 312, Supports, Cabinet Structures* (Division 8)

(J. M. DAVIS, *Classifier*)

183 **With card or sheet retainers** (to precede subclass 194)
184 Suspended sheets
185 Sheets gripped in housed position
186 Rotatable drum with card retainers actuated by rotation
187 Retainers on housing
188 Formed by closure operable when closed
189 Sheet impalers
190 Spring urged
191 Relatively, sequentially movable carriers
192 Horizontally swinging support
193 Fixed non-gripping retainers
With exhibitor, indicator or sample
234.1 With contents indicia (to follow subclass 234)
234.2 Correlated list
234.3 On closure
234.4 Labels affixed to shelves and/or partitions
234.5 Labeled movable supports

CLASSES ARRANGED BY DIVISIONS

under Division 11, change the title of Class 1 to read:

Nailing, Stapling and Clip Clenching

CLASSES ARRANGED IN ALPHABETICAL ORDER

change the title of Class 1 to read:

Nailing, Stapling and Clip Clenching

CLASSES ARRANGED IN NUMERICAL ORDER

change the title of Class 1 to read:

Nailing, Stapling and Clip Clenching

MISCELLANEOUS CHANGES

on page 1–1, subclass 40 should be moved to precede and be coordinate with subclass 42.5 and to follow subclass 84; subclasses 49.1 and 49.4 should be moved to follow and be coordinate with subclass 44 in numerical order.

PRINCIPAL DISPOSITION OF ART FROM ABOLISHED SUBCLASSES

Abolished		Disposition	
Class	*Subclass*	*Class*	*Subclass*
45	2, 3	129	15, 16, 34
45	2, 3	312	183–193
45	2, 3	312	234.1–234.5
45	2, 3	312	319
45	2, 3	312	320
92	77	29	110+
128	331, 332	1	160–260
		128	330
		218	Various
140	55	1	Various

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
1	60+	1	Various
		140	3+
		153	Various
1	160–260	1	Various
		81	15
		128	330+
		140	3+, esp. 55
		153	Various
51	193.5	51	190
51	193.7	51	194
312	183–193	45	2, 3
312	234.1–234.5	45	2, 3

IN THE DEFINITIONS:

1, Nailing, Stapling and Clip Clenching

cancel the entire class definition and substitute:

I. INDEX TO CLASS DEFINITION AND NOTES

I. Index to Class Definition and Notes
II. Class Definition
III. Definition of Terms Used
IV. Specific Nailing, Stapling and Clip Clenching Apparatus Otherwise Classified
V. Specific Nailing, Stapling and Clip Clenching Processes Otherwise Classified
VI. Unnailing, Unstapling and Clip Opening
VII. Combined Nailing, Stapling and Clip Clenching Elsewhere Classified
VIII. Other Assembly Apparatus and Processes
IX. Nails, Staples, Clips and Other Applied Elements
X. Miscellaneous Subcombinations
XI. Miscellaneous Notes and Index to Classes Referred to Herein

(10) Note.—This class definition has been divided into eleven sections numbered in Roman numerals from I to XI. References under each section have been assigned coordinating nomenclature. Every reference is given a two (or three) digit number. The tens (and hundreds) digits are the Arabic equivalents of the Roman numerals applied to the sections of the class definitions under which they are listed. The unit digits are assigned as follows:
0–7 (using decimals, if necessary) for Notes
8 for Search this class, subclass, and
9 for Search Class
e. g., under Section VI, *Notes* will begin with number (60) and run through (67), *Search this class, subclass* will be given number (68) and *Search Class* will be given number (69).

II. CLASS DEFINITION

1. This class is the generic class of apparatus for, and processes of, applying elongated and/or thin elements to one or more members by driving them endwise or edgewise into, and/or clenching them on or about the member or members.

2. This class includes apparatus for, and methods of, inserting elongated elements (usually pointed) into one or more members by impact or by pressure where there is no preformed hole for the elements.

3. This class includes apparatus for, and methods of, inserting elongated and/or thin elements into preformed, or partially preformed holes in one or more members by impact or pressure.

4. This class includes apparatus for, and methods of, applying one or more members having thin or elongated elements integral therewith to one or more other members, by driving the elements endwise or edgewise into, and/or clenching them to or about one or more other members.

5. The apparatus and processes in this class may include the making of the elements either from stock material, or integral with one or more of the members.

6. The usual function of the elements is to secure two or more members together, but in some cases the element is merely fastened to or clenched about a single member.

7. The apparatus and processes in this class also include the combination of the operation of assembling, orienting and/or associating two or more members with the operation of applying the element thereto.

8. This class includes apparatus of, and processes for, making laminated structures wherein the lamina are secured together solely by clenched or driven elements and no other laminating operation is claimed.

9. This class also includes (in subclass 26) devices for driving screw threaded rods or wires into work by a rotary movement, combined with means to cut off the rod or wire. The device may form the screw threads on the rod or wire.

10. Included in this class are apparatus and methods for nailing, stapling, clip applying, hog ringing, hinge attaching, glazier point setting, surgical clip applying, belt hook inserting, packet looping, etc.; and the operations may be performed on book blanks, basket and barrel blanks, shoes, packets, shades, Venetian blinds, etc.

(20) Explanatory Note.—The present classification is a first step in the complete reclassification of this class. It was determined that clip clenching apparatus and methods in at least four other classes were similar to and belong with the nailing and stapling patents already in this class, and they were collected for this step.

Since the method patents in the former Class 1 had been unofficially collected, these method patents and those method patents from collected art were integrated and reclassified as newly formed subclass 60+. These subclasses are believed to be substantially complete.

The clip clenching apparatus, collected as noted above, was classified and added near the end of this class (subclasses 160–260) but was not set out as such. Of these later subclasses, subclasses 160 to 200 inclusive set out characteristics believed to be common to nailing, stapling and clip clenching while subclasses 210+ are directed to characteristics specific only to some aspects of stapling and to clip clenching.

For the most part, therefore, the nailing and stapling patents, having the characteristics set out in subclasses 160+, have not been placed therein. It is contemplated that in future revisions of this class, those patents now in this class which were not considered at this time and which have characteristics not now provided for, will be set out into other new subclasses and those patents having characteristics now provided for in subclasses 160–260 will be integrated therewith.

(28) **Search this class, subclass—**
26—and see paragraph 9 of this section (II) above.

III. DEFINITION OF TERMS USED

Applying consists in joining, fixing, attaching, and/or inserting applied elements into, onto, or about one or more members which constitute the work. It includes nailing, stapling and clenching.

Clenching consists in bending an end of a thin element beyond its elastic limit or otherwise reshaping it without substantial metal flow to dispose it either relative to the material or work, or to another end of the element, to secure the element to the material or work to which it is applied or to secure the material together. The element may or may not penetrate the material or work to which it is applied. The element may be bent upon itself to grip the work, or a bent element may be flattened and become too long to be removed from the work.

Driving consists in forcing the element by impact or pressure, to penetrate into and/or through the material or work. The element may form its own opening, or the opening may be wholly or partially preformed.

IV. SPECIFIC NAILING, STAPLING AND CLIP CLENCHING APPARATUS OTHERWISE CLASSIFIED

(40) Note.—For other types of assembly apparatus see section VIII of this Class Definition, and for combined nailing, stapling and clip clenching apparatus see section VII of this Class Definition.

(41) Note.—Chain making includes the clenching of links around a portion of an adjacent link to complete the finished chain and/or preparatory to a welding operation. Hand manipulable benders adapted for such work will be found in Class 81, TOOLS, subclass 15; machines and devices for such operations are found in Class 59, CHAIN, STAPLE AND HORSESHOE MAKING, subclass 27.

(49) **Search Class—**
59—CHAIN, STAPLE AND HORSESHOE MAKING, subclass 27, and see (41) Note above.
61—HYDRAULIC AND EARTH ENGINEERING, subclass 73+, for devices for sinking or driving piles.
69—LEATHER MANUFACTURES, subclass 18, for machines for attaching the leather heads to carpet tacks. Usually the leather discs are cut off from a continuous strip and the tacks inserted by a plunger through the disks.
81—TOOLS, subclass 15, and see (41) Note, above.
93—PAPER MANUFACTURES, subclass 88, for machines for making paper marking tags, applying fastening pins or wires to the same, and securing the finished tag to article to be marked, and subclass 89 for machines for making paper tags and for applying fastening pins or wires thereto.
104—RAILWAYS, subclass 17, for rail mounted spike drivers for securing rails to ties.
128—SURGERY, subclass 330, for devices for inserting hair into the skin, for inserting tags and similar devices under the skin, and for piercing the skin for the reception of rings where a piercing element carries the ring through the skin.
131—TOBACCO, subclasses 106 and 113+, for machines for attaching tags to cigars and plug tobacco which may include the steps of forming pronged tags.
140—WIREWORKING, subclass 3+, for devices for making mesh fabric by clenching rings together successively, subclass 96 for apparatus for applying or inserting wires singly, in the form of a tooth or pin in a suitable back to form a brush, but not including devices for inserting tufts or bunches of wire bristles, and subclass 111+, for miscellaneous apparatus for joining or uniting wire.
144—WOODWORKING, subclass 31, for machines for setting or inserting wooden pins for various purposes.
145—WOODWORKING TOOLS, subclass 29+, for hand operated hammers, designed primarily to be used as hand striking tools, and particularly subclass 30 for devices formed in or secured on hammers or hatchets for holding a nail in position so that a blow of the hammer will set it; and subclass 46 for nail sets.
163—NEEDLE AND PIN MAKING, subclass 8, for sticking needles or pins in regular order on cloth or paper.
168—FARRIERY, subclass 49, for nail clinchers for use by blacksmiths, usually of the plier and tong type, and including clinching anvils.
218—BUTTON, EYELET AND RIVET SETTING, appropriate subclasses, particularly subclass 7 for button setting machines adapted to set eye-shank buttons with a single prong or tack fastener, subclasses 8–11, for button setting machines employing a staple fastener, and subclass 22+, for plier type implements for securing buttons including those using either a tack fastener or a staple fastener.
270—SHEET-MATERIAL ASSOCIATING OR FOLDING, subclass 37+, for devices having means for both associating and folding sheet material and having means for securing the parts together by means of staples, thread or the like, and subclass 53 for means for assembling a plurality of sheets or webs otherwise than by mere stacking, in combination with means for securing the associated material together by means of staples, thread, or the like.
300—BRUSH, BROOM AND MOP MAKING, subclass 13, for broom making machines characterized by the presence of nailing or stapling means, especially adapted for securing broom material in place, and subclass 20 for devices for setting handles in otherwise completed brushes, brooms or mops.

V. SPECIFIC NAILING, STAPLING AND CLIP CLENCHING PROCESSES OTHERWISE CLASSIFIED

(50) Note.—For processes of assembly in general, see section VIII of this Class Definition, and for combined nailing, stapling and clip clenching processes see section VII of this Class Definition.

(59) **Search Class—**
59—CHAIN, STAPLE AND HORSESHOE MAKING, subclass 35, for processes of making chains including the clenching of links around a portion of an adjacent link to complete the finished chain and/or preparatory to a welding operation.
61—HYDRAULIC AND EARTH ENGINEERING, subclass 73+, for processes of sinking or driving piles.
140—WIREWORKING, subclass 111, for miscellaneous processes for joining or uniting wire.

VI. UNNAILING, UNSTAPLING AND CLIP OPENING

(60) Note.—Nailing, stapling and clip clenching apparatus for this class combined with means for unnailing, unstapling, and/or clip opening will be found in the appropriate subclasses of this class, particularly subclass 200.

(68) **Search this class, subclass—**
200—and see (60) Note, above.

(69) **Search Class—**
12—BOOT AND SHOE MAKING, subclass 16, for machines for pulling out lasting tacks used for temporarily securing the upper to the sole or the insole of a shoe.
81—TOOLS, subclass 15, for hand manipulable benders for opening chain links.
112—SEWING MACHINES, subclass 30, for shoe soling machines including means to pull out lasting tacks from a lasted shoe.
254—PUSHING AND PULLING IMPLEMENTS, subclass 18+, for nail extractors, especially subclass 26 for hammer claws, and subclass 28 for staple pullers.

VII. COMBINED NAILING, STAPLING AND CLIP CLENCHING ELSEWHERE CLASSIFIED

(70) Note.—See the reference to Class 270, SHEET-MATERIAL ASSOCIATING OR FOLDING, under (49) Search Class above.

(71) Note.—Nailing, stapling and clip clenching apparatus combined with means for unnailing, unstapling and/or clip opening will be found in the appropriate subclasses of this class, particularly subclass 200.

(78) **Search this class, subclass—**
200—and see (71) Note above.

(79) **Search Class—**
7—COMPOUND TOOLS, appropriate subclasses, for miscellaneous compound tools, particularly subclass 8+, for compound tools having the general structure of a hammer.
11—BOOKS, MAKING, appropriate subclasses, for apparatus not elsewhere provided for, restricted to the manufacture of books.

12—BOOT AND SHOE MAKING, appropriate subclasses, for shoe nailing combined with other shoe making operations, especially subclass 13.1, for shoe lasting machines having devices which attach the shoe upper to the shoe sole by driving fasteners, and see the notes thereto for other lasting and nailing machines elsewhere classified; subclass 19.1, for combined machines for inserting fasteners to attach a sole to an upper and trim the edges thereof; subclass 19.2, for combined machines for inserting fasteners and pressing the outsole of a shoe or positioning such outsole in predetermined relation to the shoe before attachment; subclass 43, for combined machines which nail heels to shoes and then breast them; subclass 44, for machines which die cut heel lifts and nail them together, some machines being supplied with paste applying mechanisms; subclass 45, for combined machines which nail heels to shoes and then trim them, and subclass 108, for nail driving lasting tools provided with gripping devices for the shoe uppers.
30—CUTLERY, subclass 123+, for hand manipulable cutlery implements combined with other structure, and see the notes thereto for other cutters combined with other structure for performing an additional function.
53—PACKAGE MAKING, appropriate subclasses, for methods of and apparatus for encompassing or encasing goods or materials with a separate cover or band which serves as means for identifying, protecting or unit handling the goods or materials.
56—HARVESTERS, subclass 464+, for compressing and binding harvesters employing a cord band, the ends of which are clamped together by a clip.
93—PAPER MANUFACTURES, subclass 1.1, for apparatus and processes for interlocking paper sheets by clipping or cutting, or folding corners or edges together in combination with stapling, subclasses 8–35 for machines for making paper bags including means to shape the paper and to staple it; subclasses 36–60, for box making machines, particularly subclass 41.1, for folding a box blank into shape and afterward staying the adjoining edges by applying a metal stay, and subclass 42, for paper box making machines which fold a paper blank into shape and afterwards secure the edges or joints by means of staples; subclass 88, for machines for making paper marking tags, applying fastening pins or wires to the same, and securing the finished tag to the article to be marked and subclass 89, for machines for making paper marking tags and for applying fastening pins or wires thereto.
131—TOBACCO, subclasses 106 and 113+, for machines for attaching tags to cigars and plug tobacco which may include the steps of forming pronged tags.
147—COOPERING, subclass 47, for forms for shaping baskets, fruit boxes and crates, in combination with nailing or stapling mechanisms, such forms being opposed dies.
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, appropriate subclasses, particularly subclass 1, for apparatus and subclass 119, for processes of laminating by adhesive means combined with nailing, stapling and/or clip clenching.
270—SHEET-MATERIAL ASSOCIATING OR FOLDING, and see (49) Note, above.
300—BRUSH, BROOM AND MOP MAKING, subclass 2+, for devices for making brushes involving the setting of bunches of knots or tops of bristles in holes to form a brush, subclass 13, for broom making machines characterized by the presence of nailing or stapling means especially adapted for securing broom material in place, and subclass 20, for devices for setting handles in otherwise completed brushes, brooms or mops.

VIII. OTHER ASSEMBLY APPARATUS AND PROCESSES

(80) Note.—This class includes the securing of a clip to work or fastening work pieces together by a clip, where the clip is clenched, i. e., bent beyond the elastic limit of the material to secure clip and work together. For the applying of clips resiliently, i. e., where the deformation is within the elasticity of the material of the clip and for driving or pressing parts together for wedgingly securing them to one another, see Class 29, METAL WORKING, subclass 148+, for methods, and subclass 200+, for apparatus. Where the shaping of the element comprises substantial metal flow (as opposed to mere bending) such shaping has been considered riveting and is classified in Class 78, METAL FORGING AND WELDING, subclass 46+. Where the thin element is not elongated but is of extensive width, the clenching thereof about one or more members has been considered binding and covering, and has been placed in Class 153, METAL BENDING, subclass 1.
(81) Note.—See the reference to Class 270, SHEET-MATERIAL ASSOCIATING OR FOLDING under (49) Search Class, above.

(88) **Search this class, subclass—**
26—for devices which drive screw threaded rods or wires into work by a rotary movement combined with means to cut off the rod or wire. The device may form the screw threads on the rod or wire. See paragraph 9 of section II of this Class Definition.

(89) **Search Class—**
12—BOOT AND SHOE MAKING, subclass 42, for machines for applying screws to join a heel to a shoe, and see (88) Search this class, subclass, above.
29—METAL WORKING, subclass 148+, for assembly and disassembly processes, and subclass 200+, for assembly and disassembly apparatus; especially 211+, for apparatus with magazine supply; subclass 222+, for piston ring inserters and removers; subclass 225+, for spring appliers and removers, especially subclass 229, for circular springs; 235+ for apparatus for removing and applying resilient articles; subclass 247+, for cotter pin applying and removing; and subclass 268, for plier type, force multiplying pushing or pulling tools; and see (80) Note above.
78—METAL FORGING AND WELDING, subclass 46+, for machines, tools, appliances and processes of riveting where a solid rivet is set, and see (80) Note above.
128—SURGERY, subclass 330, for apparatus for inserting hair and tags into the skin, and for inserting rings through the skin by means of piercing apparatus.
140—WIREWORKING, subclass 111+, for miscellaneous processes of and apparatus for joining or uniting wire.
144—WOODWORKING, subclass 32, for machines adapted to set or drive screws, and see (88) Search this class, subclass, above.
145—WOODWORKING TOOLS, subclass 50+, for screw drivers, that is, bits and gripping devices for holding and/or driving wood screws.
153—METAL BENDING, subclass 1+, for bending machines for binding and covering various articles with metal, e. g., stove boards, moldings, and corset stays; and other appropriate subclasses for bending other than thin elongated elements to secure the elements to work, or secure material together, and see (80) Note, above.
218—BUTTON, EYELET, AND RIVET SETTING, subclass 19, for hollow riveting implements, subclass 20+, for button inserting and setting apparatus, and subclass 29, for processes within the Class Definitions of that class (218).
270—SHEET-MATERIAL ASSOCIATING OR FOLDING, see (49) Search Class, above.

IX. NAILS, STAPLES, CLIPS, AND OTHER APPLIED ELEMENTS.

(90) Note.—Since the nail, staple, clip or other applied element constitutes the work or blank utilized in the apparatus and by the process, claims to either the process or the apparatus are superior to claims to the blank and will control classification where the blank is also claimed. While the general rule would require claims which read both upon the work as a blank (e. g., an open clip) and the completed work (e. g., the clenched clip) to be classified with the completed work, an exception is made in this case, and claims to the applied element whether in the blank or completed form, will be considered inferior to claims to either the process or the apparatus.

(99) **Search Class—**
16—MISCELLANEOUS HARDWARE, subclass 108+, for ferrules, rings and thimbles.
59—CHAIN, STAPLE AND HORSESHOE MAKING, subclass 35, for chain link blanks, and see (41) Note above.
63—JEWELRY, subclass 12+, for earrings.
85—DRIVEN, HEADED AND SCREW-THREADED FASTENINGS, subclass 10+, for nails, spikes and tacks; and subclass 49 for staples.
119—ANIMAL HUSBANDRY, subclass 135, for rings, plugs, loops, clamps, clips and other similar devices designed to be attached to the nostrils or snouts of domestic animals, and see (90) Note above for a statement of the line between Classes 1 and 119 when either the ring, clip, etc., is claimed along with the process of, or apparatus for, applying it.
189—METALLIC BUILDING STRUCTURES, subclass 92, for land anchors which expand in penetrating the surrounding earth.

X. MISCELLANEOUS SUBCOMBINATIONS

(109) **Search Class—**
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 162+, for distributors and feeders for feeding nails, screws, nut blanks, nail plates and/or stock to machines for performing various steps in the manufacture of those articles.
140—WIREWORKING, subclass 125+, for devices for feeding wire.

144—WOODWORKING, subclass 289+, for clamps for holding structures such as doors, wagon wheels, etc., in position to be operated on.
145—WOODWORKING TOOLS, subclass 46, for nail sets for driving the head of a nail below the surface of the work when hit by a hammer.
198—CONVEYERS, POWER-DRIVEN, subclass 133, for endless conveyers particularly adapted to carry signatures of printers or book binders, usually on an inverted support.
222—DISPENSING, appropriate subclasses, and see particularly section 5 of the Class Definition of that class (222) for strip and magazine type dispensers.
242—WINDING AND REELING, subclass 103, for reel structures for wire or metal strips adapted for nailing and stapling machines.

XI. MISCELLANEOUS NOTES AND INDEX TO CLASSES REFERRED TO HEREIN

(119) **Search Class—**
7—COMPOUND TOOLS, in general and particularly subclass 8+ (79).
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 28+, for nail making machines for cutting nails from plates, forming nails from wire, and making spikes or horseshoe nails, particularly subclass 44, for machines for forming nails from coils or wire and feeding them to suitably arranged chutes so that they may be driven; subclass 156+, for nail and screw capping machines for providing nails and screws with ornamental sheet metal caps or with heads larger than can readily be swaged from the stock used for the shank and subclass 162+ (109).
11—BOOKS, MAKING, in general (79).
12—BOOT AND SHOE MAKING, subclass 13.1 (79), subclass 16 (69), subclass 19.1 (79), subclass 19.2 (79), subclass 42 (89), subclass 43 (79), subclass 44 (79), subclass 45 (79), subclass 84, for devices for cutting off and removing the ends of sole and heel attaching pegs and nails which project into the shoe, and subclass 108 (79).
16—MISCELLANEOUS HARDWARE, subclass 108+ (99).
29—METAL WORKING, subclass 4, for machines and processes for making metallic fastening devices for buttons having a shank provided with an eye, such as shoe buttons, etc.; subclass 13, for machines and processes for making insertable paper fasteners; subclass 148+ (80) (89); and subclass 200+ (80) (89), especially subclasses 211+, 222+, 225+, 229, 235+, 247+ and 268 (89).
30—CUTLERY, subclass 123+ (79).
53—PACKAGE MAKING, in general (79).
56—HARVESTERS, subclass 464+ (79).
59—CHAIN, STAPLE AND HORSESHOE MAKING, subclass 27 (41), (49), subclass 35 (59) (99), and subclass 71+, for machines, apparatus, blanks, and processes for making or forming staples of general U-shape having legs substantially equal in length and adapted to be driven into wood or other material.
61—HYDRAULIC AND EARTH ENGINEERING, subclass 73+ (49) (59).
63—JEWELRY, subclass 12 (99).
69—LEATHER MANUFACTURES, subclass 18 (49).
78—METAL FORGING AND WELDING, subclass 46+ (80) (89).
81—TOOLS, subclass 15 (41) (49) (69), and subclass 52.3+, for tools having relatively movable means for delivering an impact to operate or to aid in the operation of a tool, and see the notes thereto for other impact operated devices.
85—DRIVEN, HEADED AND SCREW-THREADED FASTENINGS, subclass 10+ (99), subclass 17, for tack strips, and subclass 49 (99).
93—PAPER MANUFACTURES, subclass 1.1 (79), subclass 8–35 (79), subclass 36–60 (79), subclass 41.1 (79), subclass 42 (79), subclass 88 (49) (79) and subclass 89 (49) (79).
104—RAILWAYS, subclass 17 (49).
112—SEWING MACHINES, subclass 30 (69).
119—ANIMAL HUSBANDRY, subclass 135 (99).
128—SURGERY, subclass 330 (49) (89).
129—PAPER FILES AND BINDERS, subclass 21, for impaling paper files.
131—TOBACCO, subclass 106 (49) (79) and subclass 113+ (49) (79).
140—WIREWORKING, subclass 3+ (49), subclass 96 (49), subclass 111+ (49) (59) (89), and subclass 125+ (109).
144—WOODWORKING, subclass 31 (49), subclass 32 (89), and subclass 289+ (109).
145—WOODWORKING TOOLS, subclass 29+ (49), subclass 30 (49), subclass 46 (49) (109) and subclass 50+ (89).
147—COOPERING, subclass 47 (79).
153—METAL BENDING, in general (89) and subclass 1+ (80) (89).
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, in general and particularly subclass 1 and subclass 119 (79).
163—NEEDLE AND PIN MAKING, subclass 7, for making safety pin shields and attaching them to a wire body, and subclass 8 (49).
168—FARRIERY, subclass 49 (49).
189—METALLIC BUILDING STRUCTURES, subclass 92 (99).
198—CONVEYERS, POWER-DRIVEN, subclass 133 (109) and subclass 178, for conveyer elements of the impaling type having a sharp spike-like member carried by the conveyer on which articles may be pierced or which pierces articles to carry them.
209—CLASSIFYING, SEPARATING AND ASSORTING SOLIDS, subclass 109+, for devices which assort by penetrating, i. e., the penetrating elements entering some of the articles, generally the softer, while other articles, generally the harder, are not so entered; the penetration of the former permitting their being given movement away from the other articles which are restrained from following.
218—BUTTON, EYELET AND RIVET SETTING, in general (49), subclass 7 (49), subclasses 8–11 (49), subclass 19 (89), subclass 20+ (89), subclass 22+ (49) and subclass 29 (89).
222—DISPENSING, in general, and particularly section 5 of the Class (222) Definition (109).
242—WINDING AND REELING, subclass 103 (109).
254—PUSHING AND PULLING IMPLEMENTS, subclass 18+, especially subclass 26 (69) and subclass 28 (69).
270—SHEET-MATERIAL ASSOCIATING OR FOLDING, subclass 37+ (49) and subclass 53 (49).
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 49+, for hand forks and subclass 61, for spears.
300—BRUSH, BROOM AND MOP MAKING, subclass 2+ (79), subclass 13 (49) (79) and subclass 20 (49) (79).

in subclass 2, cancel "(2) Search this class, subclasses 7, 11, 20, 48", and add:

Search this class, subclass—
175—for other applied element forming and applying devices, and see the notes thereto for other forming and applying apparatus classified in this class and elsewhere.

in subclass 3, cancel "Search this class, subclass 49" and insert:

Search this class, subclass—
187—for miscellaneous devices for applying elements to work by driving and/or clenching and including the magazine supply of elements, and see the notes thereto for like devices elsewhere classified.

in subclass 6, cancel the matter under "(1)" and "(2)" and insert:

Search this class, subclass—
187—for miscellaneous driven and/or clenched element applying devices with magazine supply of elements, and see the notes thereto for like devices elsewhere classified.

Search Class—
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 162+, for miscellaneous machines for feeding nail, screw, nut blanks, nail plates or stock to machines for performing various steps in the manufacture of those articles; for separating finished articles from imperfect work and chips; and for conveying articles from machines to receptacles for packing, etc.

cancel the definition and note of subclass 7, and substitute:

7. Book stapling machines adapted to cut short lengths from a continuous wire, bend them into staples and insert and clench the staples in the work.

(1) Note.—This subclass includes means for uniting book leaves or signatures together by stapling even when there is included with the stapler means for feeding the work to the stapler and means for delivering it away from the stapler.

Search this class, subclass—
175—for miscellaneous applied element forming and applying devices, and see the notes thereto for like devices elsewhere classified.

Search Class—
112—SEWING MACHINES, subclass 21, for machines for sewing books.
198—CONVEYERS, POWER-DRIVEN, subclass 133, for endless conveyers adapted to carry signatures of printers or bookbinders, usually on an inverted V support; and subclass 218, for reciprocating conveyers for the same purpose.
270—SHEET-MATERIAL ASSOCIATING OR FOLDING, appropriate subclasses, for means for uniting leaves together into books by stapling, provided there is included some means for folding the leaves or associating the leaves or signatures.

cancel the definition and note of subclass 8, and substitute:

8. Book stapling machines adapted to set previously formed staples which are fed either to the setting jaws by hand or down a chute.

Search this class, subclass—
4—for miscellaneous machines which set staples placed in position by hand.
13—for miscellaneous machines for setting sheet metal or wire stays or staples in boxes.
21—for machines adapted to set staples in shoes.
42.8—for machines adapted to set sheet metal or wire stays or staples into box corners.
50—for implements which simply set staples which are placed in stapling jaws by hand.

in subclass 9, cancel "Search this class, subclasses 27 and 51", and insert:

(1) Note.—This subclass includes machines which both make nail strings and subsequently sever nails therefrom and drive them. For machines which form strings or reels of nails from wire, the nails being so joined at the point that they may be easily broken apart and driven by suitable driving machines, see Class 10, BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 45.

Search this class, subclass—
27.5—for machines which form a nail from a nail string and drive it into a shoe.
51.5—for implements which form a nail from a nail string and drive it.
175—for miscellaneous applied element forming and applying devices and see the notes thereto for similar devices elsewhere classified.

Search Class—
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 45 and see (1) Note, above.

in subclass 11, cancel "Search this class, subclasses 2, 7, 20 and 48", and insert:

Search this class, subclass—
175—for miscellaneous applied element forming and applying devices, and see the notes thereto for like devices elsewhere classified.

in subclass 13, change "box corners" to *boxes*, and cancel "Search this class, subclasses 2, 7, 20, 48" and substitute:

Search this class, subclass—
8—and see the notes thereto for staple setters.
42.8—for corner conforming staple applying.

in subclass 13.6, insert:

Search this class, subclass—
175—for miscellaneous applied element forming and applying devices, and see the notes thereto for like devices elsewhere classified.

in subclass 16, cancel "Search this class, subclasses 6 and 39" and add:

Search this class, subclass—
187—for miscellaneous driven and/or clenched element applying devices with magazine supply of elements, and see the notes thereto for like devices elsewhere classified.

in subclass 18, cancel "Search this class, subclasses 6, 16 and 46", and add:

Search this class, subclass—
187—for miscellaneous driven and/or clenched element applying devices with magazine supply, and see the notes thereto for like devices elsewhere classified.

in subclass 20, cancel "Search this class, subclasses 2, 7, 11 and 48", and add:

Search this class, subclass—
175—for miscellaneous devices for forming and applying driven and/or clenched elements, and see the notes thereto for like devices elsewhere classified.

in subclass 21, add:

Search this class, subclass—
8—for book stapling machines which set previously formed staples which are fed by hand, and see the notes thereto for like devices elsewhere classified.

in subclass 22, cancel the matter numbered "(1)" and "(2)" and insert:

Search this class, subclass—
52—for implements adapted to cut and then drive a nail or peg from a strip in the form of either a ribbon or a comb, which strip is automatically fed to position.
175—for miscellaneous applied element forming and applying devices, and see the notes thereto for like devices elsewhere classified.

Search Class—
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 29, for machines for making strips of tacks arranged side by side with united heads and resembling the teeth of a comb, such strips being usually used in automatic nailing machines.

in subclass 23, cancel "Search this class, subclass 52", and insert:

Search this class, subclass—
52—for implements adapted to cut a peg from a peg-wood strip and then drive the peg.
175—for miscellaneous applied element forming and applying devices, and see the notes thereto for like devices elsewhere classified.

cancel the definition and notes of subclass 24, and substitute:

24. Machines adapted to make tack strips and/or drive tacks from a tack strip.

(1) Note.—The tack strips employed in these machines include those in which separate tacks are received in openings spaced along the strip. See this class, subclass 24.5, for such strips per se.

Search this class, subclass—
24.5—and see (1) Note above.
53—for implements which drive tacks from a tack strip.
175—for miscellaneous applied element forming and applying devices, and see the notes thereto for like devices elsewhere classified.

Search Class—
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 29, for machines for making cut nails in the form of strips of tacks arranged side by side with united heads and resembling the teeth of a comb, such strips being usually used in automatic nailing machines.
86—AMMUNITION AND EXPLOSIVE-CHARGE MAKING, subclass 48, for machines for loading or filling belts with cartridges.
140—WIREWORKING, subclass 93+, for applying wire.
144—WOODWORKING, subclass 54, for cutting match sticks and mounting them in frames for dipping.
163—NEEDLE AND PIN MAKING, subclass 8, for machines for packaging needles and pins by sticking them in a card or paper.

in subclass 24.5, add:

Search this class, subclass—
24—for machines for mounting tacks in tack strips and/or driving them from such strips.
56—for packages of fasteners to be usel in nailing and stapling where the package is more than a mere box or container.

Search Class—
36—BOOTS, SHOES AND LEGGINGS, subclass 24, for pegs and peg ribbons from which pegs are cut for securing soles and uppers together in shoe manufacture.

in subclass 25, add:

Search this class, subclass—
175—for miscellaneous devices for forming and applying elements, and see the notes thereto for like devices elsewhere classified.

in subclass 26, under "Search Class", add:

144—WOODWORKING, subclass 32, for machines adapted to set or drive screws.

in subclass 27, cancel "Search this class, subclasses 9 and 51", and add:

Search this class, subclass—
175—for miscellaneous devices for forming and applying applied elements, and see the notes thereto for like devices elsewhere classified.

in subclass 27.5, add:

(1) Note.—This subclass includes machines which both make a string nail and subsequently sever nails therefrom and drive them. For machines for forming strings or reels of nails so joined at the point that they may be easily broken apart and driven by a suitable driving machine see Class 10, BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 45.

Search this class, subclass—
9—for string nailers employed in box nailing, and see the notes thereto for string nailers elsewhere classified.

Search Class—
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 45, and see (1) Note, above.

in subclass 39, cancel "Search this class, subclasses 6 and 16" and add:

Search this class, subclass—
187—for miscellaneous driven and/or clenched element applying devices with magazine supply, and see the notes thereto for like devices elsewhere classified.

in subclass 40, add:

Search Class—
93—PAPER MANUFACTURES, subclass 91, for machines for making tags which are provided with securing strings or wires; and for securing such strings or wires to tags otherwise complete.

in subclass 41, add:

Search Class—
12—BOOT AND SHOE MAKING, subclass 123+, for devices for sustaining boots and shoes during the process of manufacture, including repair lasts; subclass 133+, for shoe last foot forms over which boots and shoes are shaped and built up, particularly subclass 140, for lasts provided with grooves or sockets which may or may not be filled with some material such as rubber and into which the nails for securing the parts of the shoe to the last and to each other are driven.

in subclass 42.8, add:

Search this class, subclass—
8—and see the notes thereto for other staple setting.

Search Class—
93—PAPER MANUFACTURES, subclass 56, for machines for applying strips of paper, cloth, or other material to the corners of paper boxes to secure the parts together or to strengthen the joint when otherwise secured.

in subclass 45, number the note "(1)", and add:

Search this class, subclass—
187—for miscellaneous devices for applying elements to work by driving and/or clenching which include a magazine supply of elements, and see the notes thereto for similar devices elsewhere classified.

Search Class—
124—MECHANICAL GUNS AND PROJECTORS, subclass 45, and see (1) Note above.

in subclass 45.5, add:

Search Class—
12—BOOT AND SHOE MAKING, subclass 108, for nail driving implements provided with shoe upper gripping devices.

in subclass 45.6, add:

Search this class, subclass—
187—for miscellaneous devices for applying elements to work by driving and/or clenching which have a magazine supply of elements, and see the notes thereto for similar devices elsewhere classified.

in subclass 46, cancel "Search this class, subclasses 6, 16, 18 and 45.6" and insert:

Search this class, subclass—
187—for miscellaneous devices for applying elements to work by driving and/or clenching and having a magazine supply of elements, and see the notes thereto for like devices elsewhere classified.

in subclass 48, cancel "Search this class, subclasses 2, 7, 11 and 20" and insert:

Search this class, subclass—
175—for miscellaneous applied element forming and applying devices, and see the notes thereto for like devices elsewhere classified.

in subclass 49, cancel "Search this class, subclass 3" and add:

Search this class, subclass—
187—for miscellaneous devices for applying elements to work by driving and/or clenching which have a magazine supply of elements, and see the notes thereto for like devices elsewhere classified.

in subclass 49.5, add:

Search this class, subclass—
187—for miscellaneous driven and/or clenched element applying devices with magazine supply, and see the notes thereto for like devices elsewhere classified.

in subclass 51, cancel "Search this class, subclasses 9 and 27" and add:

Search this class, subclass—
175—for miscellaneous applied element forming and applying apparatus, and see the notes thereto for similar devices elsewhere classified.

in subclass 51.5, add:

Search this class, subclass—
9—for string nailers employed in box nailing, and see the notes thereto for string nailers elsewhere classified.

in subclass 52, cancel "Search this class, subclasses 22 and 23" and insert:

Search this class, subclass—
22—for machines which cut nails from a metal ribbon or comb and drive the nail so formed into a shoe.
23—for machines which cut pegs from a peg-wood strip and drive them.
175—for miscellaneous applied element forming and applying apparatus, and see the notes thereto for like devices elsewhere classified.

in subclass 53, cancel "Search this class, subclass 24", and add:

Search this class, subclass—
24—for machines which make tack strips and drive tacks from the strips.
175—for miscellaneous applied element forming and applying apparatus, and see the notes thereto for like devices elsewhere classified.

in subclass 56, insert:

Search this class, subclass—
24.5—for strips in which pegs, nails or tacks are mounted to be fed into various strip machines.

establish the following subclass definitions:

60. Methods under the class definition.

(1) Note.—See the class definition of this class (1), Section V, for other processes of nailing, stapling and clip clenching, and Section VIII, for other processes of assembly.

Search Class—
29—METAL WORKING, subclass 148+, and see the notes thereto for methods of manufacture (including assembly and disassembly) regardless of the materials operated upon or employed in the product made, and regardless of the number of operations involved in the process.
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, subclass 119, for laminating operations combined with securing by non-adhesive means.

62. Methods under subclass 60 wherein the base or material to be operated upon moves without interruption while the applying and/or fastening takes place.

Search this class, subclass—
84—for intermittent feeding methods.
165—for work feeding apparatus.

64. Methods under subclass 60 wherein one or more openings for the applied elements are preformed in one or more of the members being assembled.

66. Methods under subclass 60 including steps other than locating and applying the fastener, feeding the work and making or preshaping the fastener.

(1) Note.—This subclass includes, for example, methods of cutting and/or punching the members being assembled, or the cutting and/or punching of the complete work, other than the making of preformed openings for the applied fastener, for which see subclass 64 above.

(2) Note.—This subclass also includes methods of embossing the completed work.

(3) Note.—This subclass also includes making one or more of the members being assembled, except the making of integral fasteners on one or more of the members, for which see subclass 76 below.

Search this class, subclass—
64—for methods of preforming the openings for the applied fasteners, and see (1) Note above.
76—for methods of making and applying fasteners integral with one or more members constituting the work, and see (3) Note, above.

68. Methods under subclass 60 wherein the applied element or fastener is bent or clenched about one or more members, or about a section or piece thereof to wholly or partially encircle them, the members constituting a mandrel for the bending or clenching.

(1) Note.—In some cases, the member or members have preformed holes through which the applied element is inserted and clenched.

Search this class, subclass—
70—for methods of applying fasteners wherein an open loop or bridge is formed therein.

70. Methods under subclass 60 wherein the element is applied in a manner to form a loop shaped member having a closed bight.

Search this class, subclass—
68—for methods of applying fasteners wherein the loop or bight is bent or clenched about one or more members, the members constituting a mandrel for the bending or clenching.

72. Methods under subclass 60 wherein two or more discrete fasteners are so applied that they interengage or otherwise contact to mutually aid in holding one another in or to the work.

74. Methods under subclass 60 wherein the element is applied and bent during its entry into the work, without any aid from the backing structure other than that necessary to support the work.

76. Methods under subclass 60 wherein the applied element is, or has been, formed from and integral with one or more of the members being assembled.

78. Methods under subclass 60 wherein the applied element is first located and assembled with one or more of the members, there being a subsequent step of pressure and/or impact to complete the application of the element.

Search this class, subclass—
64—for methods of applying elements to a preformed opening.
76—for methods of applying elements integral with part of the work.

80. Methods under subclass 60 wherein two or more elements are applied coincidentally.

Search this class, subclass—
72—for methods of applying plural intercooperating fasteners.

82. Methods under subclass 60 wherein the applied element is formed from stock material, from blanks or from one of the members before or during its application.

84. Methods under subclass 60 wherein the base or the material to be operated upon is alternately moved and stopped.

(1) Note.—The element is usually applied while the base or material is not in motion.

Search this class, subclass—
62—for methods of nailing, stapling or clip clenching on continuously moving work.
165—for apparatus for feeding work.

160. Devices under the class definition which have means sensitive to the presence of work in position for the application of an element thereto, which means controls the applying means.

163. Devices under the class definition having means for abating and removing the applying pressure on an applied element upon continued movement of the applier beyond that necessary to assemble the element upon the work, so that the work may then move relative to the applier without further actuation thereof.

(1) Note.—Many of these devices are hog ringers and animal taggers which allow the ringed or tagged animal to pull away from the applier without tearing the flesh.

Search this class, subclass—
165—for work ejectors.
200—for appliers combined with means for removing an applied element.

Search Class—
74—MACHINE ELEMENTS AND MECHANISMS, subclass 2, for trips per se, and subclass 17.5, for full stroke mechanisms.
81—TOOLS, subclass 52.4, and see the notes thereto, for tools with predetermined overload yielding means.

165. Devices under the class definition having means (1) to move a work into position relative to the element applying means for the applying operation, or (2) to remove the work from such position.

Search this class, subclass—
7 and **8**—for means for uniting book leaves or signatures together by stapling, even when there is included with the stapler, means for feeding the work to the stapler and means for delivering it away from the stapler.
163—for means for releasing the pressure on the element when the applier has reached a predetermined position, thus releasing the work from the tool.

Search Class—
270—SHEET-MATERIAL ASSOCIATING OR FOLDING, appropriate subclasses, for means for uniting leaves together into books by stapling provided there is included some means for folding the leaves or associating the leaves or signatures.

170. Devices under the class definition in which opposed surfaces are caused to approach one another to grip the work between them, and such surfaces are other than the surfaces which apply or deform the applied element.

(1) Note.—The action of the auxiliary clamp in the devices here classified is to hold the work prior to the driving and/or clenching of the applied element on the work. The clamping of work by the jaws which apply the element is not here classified but will be found below in the subclasses directed to the specific type of applying device.

Search this class, subclass—
33—for machines adapted to press and tack heel parts together.
45.5+—for implements for driving or positioning nails or tacks and provided with means for gripping of a fabric in order to force it into position or hold it for nailing.
200—for devices for opening clips, combined with applier.

Search Class—
12—BOOT AND SHOE MAKING, subclass 11.2, for lasting machines employing a nipper stretcher and having means for driving nails, and see the notes thereto for lasting machines having such features otherwise classified; subclass 19.2, for combined machines for inserting fasteners and pressing an out sole to a shoe in a predetermined relation; and subclass 108, for nail driving shoe lasting tools provided with upper gripping devices.
30—CUTLERY, subclass 134+, for shearing implements in which the material, generally a fruit stem, wire, tree branch or twine is gripped, usually between two jaws on the cutting blade.
153—METAL BENDING, subclass 16, for bending machines in which the work is secured to a bender by a movable clamping bar while the bender operates upon the free or projecting portion thereof, the bender having a pivotal action; and subclass 25, for reciprocating benders in which the portion of the work projecting beyond the bend and the work is clamped to the bender.
164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 45, for machines provided with means for clamping the work while a pivoted cutter shears the material; subclass 51, for reciprocating cutter machines having means for holding the material which means is automatic in its action as distinguished from those in which the work clamp is set up by hand; subclass 52, for reciprocating cutter machines in which the work clamp is set up by hand; subclass 54, for reciprocating cutter machines in which the knife reciprocates and also has an endwise shearing movement and which machines are provided with means for clamping the work automatically as distinguished from hand operation; subclass 55, for reciprocating knife cutting machines in which the knife also has an endwise shearing movement and in which the work is held by a hand operated clamp; subclass 79, for tables or boards upon which material is adapted to be laid while being cut, which tables are supplied with means for clamping the material; and subclass 110, for attachments for punching machines for stripping material from the punch as the latter rises or for holding the material firmly while the punch is descending.

175. Devices under the class definition which have (1) means to sever material to obtain an element to be applied, or (2) means at a location other than the applying position for reshaping material to form an element to be applied.

(1) Note.—This subclass includes devices for shaping lengths of wire or ribbons to substantially U-shape subsequent to the severing of the portion from the end of the supplied continuous member.

Search this class, subclass—
2+—for miscellaneous staple forming and setting machines.
7—for stapling machines adapted to cut short lengths from a continuous wire, bend them into staples and insert and clench them in books.
9—for nailing machines adapted to cut a nail from a continuous wire, nail string, nail strip or comb and drive it into a box.
11—for stapling machines adapted to cut short length wires, bend them in staple form and fit them into the corners of pasteboard, veneer and other light boxes.
13.6—for staple forming machines which also set staples in baskets and barrels.
20—for staple forming machines which also set staples in shoes.
22—for nailing machines which cut nails from a metal ribbon or comb and drive the nail so formed into a shoe.
23—for peg driving machines which cut pegs from a peg-wood strip and drive them into a shoe.
24—for machines for making tack strips and driving tacks from strips into a shoe.
25+—for machines which force wire into a shoe sole and cut it off even with the sole.
27+—for nailing machines which form a nail from a continuous wire and drive it into a shoe.

48+—for miscellaneous staple forming and setting implements.
51+—for miscellaneous nailing implements which cut the nail from the wire and drive the nail.
52—for implements which cut a nail from a metal strip or a peg from a peg-wood strip and then drive the nail or peg.
53—for implements for driving tacks from a tack strip.

Search Class—
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 44, for machines for forming nails from coils of wire and feeding them to suitably arranged chutes so that they may be driven in shoe heels, boxes, etc.
140—WIREWORKING, subclass 140, for wire straightening and cutting devices having means to produce straight wires of a given length, the cutting mechanism usually being actuated by the wire to be cut.
218—BUTTON, EYELET AND RIVET SETTING, subclass 8, for button setting machines adapted to cut and form staple fasteners and secure them with eye-shank buttons automatically fed to setting position.

177. Devices under subclass 175 having means to move the material to be severed to position combined with means to sever the said material into predetermined lengths.

(1) Note.—The elongated element may be a wire, strip or a strip of partially formed blanks, etc.

185. Devices under the class definition having a plurality of applying devices any one of which is separately usable at the option of the operator.

(1) Note.—In these devices the choice of one of the devices bars use of the other.
(2) Note.—Devices having means to adjust the amount of closing of the applier in order to accommodate different sizes of clips have not been placed here, but may be found in the appropriate applier classes below.

187. Devices under the class definition which have supporting means for a supply of a plurality of separate elements and means to cause the elements to move successively from such supply into position to be applied to the work.

(1) Note.—See Class 222, DISPENSING, Section 5 of the class definition for search notes on article dispensing in general, particularly part II thereof for magazine type dispensing.

Search this class, subclass—
3—for miscellaneous machines in which loose staples are automatically fed to setting position from receptacles or magazines.
3.1—for miscellaneous devices for arranging loose staples for stapling machines or implements.
6—for miscellaneous devices for arranging and feeding loose nails for nailing machines or implements.
16—for box nailing machines with means, usually including hoppers or chutes, for arranging and distributing loose nails in position to be driven.
18+—for shoe nailing machines in which loose nails are automatically fed to the driving position usually through a chute and rotary hopper.
39+—for shoe heel nailing machines with means for arranging and distributing or feeding loose nails.
45—for hammers which are provided with magazines into which loose nails are placed and fed to driving position.
45.6—for fabric gripping and nailing implements provided with magazines for loose nails or tacks from which the nails or tacks are fed to driving position.
46+—for nail driving implements adapted to drive loose nails which are fed by suitable chutes from hoppers, magazines, etc., to a position beneath the plunger.
49—for implements in which loose staples are placed in a magazine or hopper and are automatically fed to setting position.
49.5—for nail loaders for assisting in loading magazine nail driving implements.
56—for packages of fasteners to be used in nailing and stapling where the package is more than a mere box or container. The fasteners are generally so held that they may be readily discharged into a magazine, or the package itself forms such a magazine.

Search Class—
218—BUTTON, EYELET AND RIVET SETTING, subclass 2, for riveting machines in which hollow rivets are automatically fed to setting position from a magazine or hopper; subclass 6, for button setting machines in which the buttons are automatically set to riveting position from a hopper, chute or magazine; subclass 15, for eyelet setting machines in which the eyelets are automatically fed from the magazine or hopper to setting position; and subclass 17+, for lacing hook setting machines in which the hooks are automatically fed to setting position from magazines or hoppers.
222—DISPENSING, and see (1) Note above.

200. Devices under the class definition in combination with means other than the element applying devices, work locating abutments and applied element locating abutments and means for operating the applying device.

(1) Note.—This subclass includes devices under the class definition in combination with means for bending the worked material other than the bending of the worked material by the application of the element thereto.
(2) Note.—This subclass includes devices for applying elements by driving and/or clenching in combination with a work cutter or punch.
(3) Note.—This subclass includes devices for applying elements to work by driving and/or clenching in combination with or having fabric gripping prongs or points for forcing fabric material into position or holding it in position for application of an element thereto. Search this class, subclass 45.5+, for nailing implements having prongs or points for the same purpose.
(4) Note.—This subclass includes element applying devices under the class definition which have means for forming an opening in the material to which the element is applied for the passage of the element. Search this class, subclass 33+, for devices for applying nails or staples to shoes which devices often incorporate an awl for preparing an opening for the reception of the applied element.

Search this class, subclass—
33+—and see (4) Note above.
45.5+—and see (3) Note above.

Search Class—
12—BOOT AND SHOE MAKING, subclass 43, for combined machines which nail heels to shoes and then breast the heel.

210. Devices under the class definition including means for bending the applied element into such shape that it remains affixed to the work.

212. Devices under subclass 210 in which the bending means includes a hollow, inwardly bowed surface and has cooperating therewith a means to force the applied element to conform to or to assume the shape of such surface.

Search Class—
153—METAL BENDING, subclass 32+, for bending machines which curve or straighten work.

215. Devices under subclass 212 in which two or more concave die members are relatively actuated toward one another with the surfaces in facing relationship.

Search Class—
153—METAL BENDING, subclass 44, for pivoting benders for curving or straightening which have opposing jaws, and subclass 48+, for reciprocating benders for curving or straightening which have opposing jaws.

217. Devices under subclass 212 in which the concave surface is so positioned relative to the forcing means that the applied element is forced endwise into the concavity and there deflected or curled.

220. Devices under subclass 210 in which spaced surfaces abutting the work or the applied element swing relative to one another about real or virtual centers to bend the element into clenched position.

Search this class, subclass—
212—for devices having pivoting abutments for applying elements by driving and/or clenching which have an applied element shaping abutment of the curving concave die type.

Search Class—
153—METAL BENDING, subclass 15+, for pivoting benders for making angular bends.

222. Devices under subclass 220 in which the pivoting abutments swing relative to one another and relative to a surface supporting the work against the push of the abutments.

224. Devices under subclass 222 in which the surface toward which the plural swinging abutments press the element is itself movable relative to an axis about which at least one of the swinging abutments oscillates.

260. Devices under the class definition not falling within the definitions of the preceding subclasses.

7, Compound Tools

in the class definition, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 45.5, for implements for driving or positioning nails or tacks and provided with means to grip a fabric such as a carpet to force it into position for nailing, and appropriate subclasses for processes of and implements for making and applying nails, staples and clips, especially subclass 200, for combined clip clenchers and openers.

168—FARRIERY, subclass 45+, for compound tools employed by blacksmiths in fitting and securing in place the shoes of cattle and horses.

in subclass 8, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for apparatus for securing nails, staples and clips by driving and/or clenching.

10, Belt, Nail, Nut, Rivet and Screw Making

in the class definition, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for the combined making and driving of nails.

in subclass 23, add:

Search Class—

64—MACHINE ELEMENTS, SHAFTING AND FLEXIBLE SHAFT COUPLINGS, subclass 28+, for flexible couplings between aligned rotary shafts with an overload release, such as a frangible connection, for excessive torque load.

in subclass 28, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching and particularly subclass 82, for processes of and subclasses 2+, 7, 9, 13.6, 20, 27+, 48+, 51+ and 175+, for apparatus for making and applying the nails, staples and clips.

in subclass 29, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 44, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 175, for processes of and devices for making and applying nails, staples or clips to work by driving and/or clenching, and see the notes thereto for like devices elsewhere classified.

in subclass 45, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 126, add:

Search Class—

29—METAL WORKING, subclass 106, for devices for supplying lubricant to cutting tools so designed as to convey it to the working edge of the tool.

in subclass 141, add:

Search Class—

29—METAL WORKING, subclass 281, for hand manipulated assembling or disassembling tools which have grippers for direct push or pull for tube applying or removing in which the gripping means is thread tapping.

in subclass 146, add:

Search Class—

29—METAL WORKING, subclass 105, generically for rotary cutters built up from a body in which are secured smaller separate cutting teeth.

in subclass 156, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

in subclass 162, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*, and add in order:

86—AMMUNITION AND EXPLOSIVE-CHARGE MAKING, subclass 45+, for devices for conveying bullets, shells, wads, etc., to the working parts of ammunition making and loading machines.

163—NEEDLE AND PIN MAKING, subclass 8, for machines for separating perfect from imperfect needles or pins, for arranging them in bunches for packing or for sticking them in regular order on cloth or paper.

209—CLASSIFYING, SEPARATING AND ASSORTING SOLIDS, subclass 109+, for devices which assort by penetrating with the penetrating elements entering some of the articles, generally the softer, while other articles, generally the harder, are not so entered; the penetration of the former permitting their being given movement away from other articles being restrained from following the movement.

222—DISPENSING, subclass 9+, for article dispensing and see section 5 of the class definition for article dispensing located in other classes.

in subclass 170, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 16, for box nailing machines having nail feeding means for arranging and distributing loose nails in position to be driven, usually by hoppers and chutes, and subclass 18, for shoe nailing machines in which loose nails are automatically fed in driving position usually from a chute or rotary hopper.

11, Books, Making

in the class definition, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

and cancel the reference to Class 91, and substitute:

118—COATING APPARATUS, see (4) Note.

12, Boot and Shoe Making

in subclass 13.1, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 13.3, under "Search this class, subclass", add:

55.1—for upper machines provided with slitting or notching means.

in subclass 16, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for applying and securing nails, staples and clips to work by driving and/or clenching, and see Section VI of the class definition of that class (1).

in subclass 19.1, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

in subclass 19.2, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching. Note particularly subclass 170 for such devices in combination with a work gripping clamp.

in subclass 43, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching, particularly subclasses 66 and 200, for such devices in combination with means to cut the material worked upon.

in subclass 44, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching, particularly subclasses 66 and 200, for such devices in combination with means to cut the material worked upon.

in subclass 45, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching, particularly subclasses 66 and 200, for such devices in combination with means for cutting the work.

in subclass 48, cancel "(2) Search Class" and the reference to Class 1, and substitute:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 33, for machines adapted to press and tack heel lifts together or to prick and also load them.

in subclass 69.5, under "Search Class", add:

29—METAL WORKING, subclass 241, for apparatus which assembles or disassembles by a stringing action, either by the stringing parts on an attenuated or elongated means or by passing such means through a part or parts.

in subclass 81, add:

Search Class—

19—TEXTILES, FIBER PREPARATION, appropriate subclasses, for devices for forming slivers into mats which are later to be formed into felt shoes.

in subclass 84, add:

Search Class—

29—METAL WORKING, subclass 76, for machines and processes for filing metal, which may be defined as cutting metal by a hard instrument having its surface or surfaces sharply ridged.

in subclass 94, add:

Search Class—

29—METAL WORKING, subclass 105, for miscellaneous rotary cutters which are built up from a body in which are secured smaller separate teeth and see the notes thereto for like cutters elsewhere classified.

in subclass 108, under "Search Class", cancel the reference to Class 1 and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 45.5+, for implements for driving or positioning a nail or tack and having means to grip fabric to force it into position for nailing, and subclass 47+, for nail driving implements.

in subclass 123, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 41, for horns and jacks for shoe nailing machines for supporting the shoe in nailing position.

15, Brushing, Scrubbing and General Cleaning

in subclass 230, under "Search Class", add:

51—ABRADING, subclass 193.5+, for rotary cylinders having flexible abradant flaps extending from the periphery thereof which are adapted to contact a workpiece.

26, Textiles, Cloth Finishing

in subclass 28, under "Search Class", in the reference to Class 51, change the period to a comma, and add:

especially subclass 193.5+, for rotary cylinders having flexible abradant flaps extending from the periphery thereof.

29, Metal Working

in subclass 1.1, add:

Search Class—

90—GEAR CUTTING, MILLING AND PLANING, subclass 28.1, for planing machines for cutting spiral grooves in the curved inner surfaces of the barrels of small arms or ordnance.

in subclass 1.3, under "Search Class", cancel the reference to Class 113, and insert:

86—AMMUNITION AND EXPLOSIVE-CHARGE MAKING, appropriate subclasses, for shaping metallic cases of fixed ammunition in forming ammunition therewith.

113—SHEET-METAL WARE, MAKING, subclass 38+, for shaping cartridge cases from sheet metal by die shaping operations, particularly subclass 38.1, for the necking in of cartridge cases, and subclass 46, for the drawing of cartridge cases from sheet-metal planchets.

in subclass 4, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

in subclass 4.5, under "Search Class", insert:

144—WOODWORKING, subclass 185+, for slivering wood as for excelsior making.

in subclass 5, under "Search Class", add:

140—WIREWORKING, subclasses 82 and 87, for wire clip and hairpin making.

in subclass 13, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

in subclass 28, add:

Search Class—

51—ABRADING, subclass 5, for devices in which an abrading device is organized with means for performing other operations cognate or accessory to the abrading operation.

in subclass 34, add:

Search Class—

90—METAL ROLLING, subclass 3, for machines which are adapted to roll metal and also to perform a cutting operation.

in subclass 35, add:

Search Class—

90—METAL ROLLING, subclass 4, for machines which are adapted to shape metals by both drawing and rolling operations.

in subclass 58, under "Search Class", add:

76—METAL TOOLS AND IMPLEMENTS, MAKING, subclass 22, for devices for feeding file blanks to a file cutting or punching mechanism.

222—DISPENSING, subclass 9+, for article dispenser, and see the class definition of Class 222, section 5, for notes on dispensers, particularly of the magazine and strip server types elsewhere classified.

in subclass 61, under "Search Class", add:

142—WOOD TURNING, subclass 54, for hollow mandrels or longitudinally perforated rotary spindles or work carriers through which sticks feed endwise for operations of that class.

in subclass 65, add:

(1) Note.—This subclass includes adjustable stop abutments.

in subclass 66, under "Search Class", insert:

144—WOODWORKING, subclass 193+, for devices for splitting wood by means of a wedge.

in subclass 67, add:

(.5) Note.—This subclass includes devices per se for holding work for sawing as well as devices with saw guiding slots. It also has saw guides or miter boxes for use in sawing metal.

in subclass 68, under "Search Class", insert:

30—CUTLERY, subclass 274, for cutlery implements having means for moving the blade during hand manipulation in which the blade is of the endless band type or of a plurality of blades secured to an endless band and see the notes thereto for cutting devices which employ an endless band cutter and are elsewhere classified.

in subclass 69, under "Search Class", insert:

30—CUTLERY, subclass 347, for cutting blades per se for use with hand manipulated implements in which the blade is so constructed as to be rotated during the cutting operation and see the notes thereto for other rotary blade implements and machines specialized to art uses.

in subclass 76, add:

Search Class—

12—BOOT AND SHOE MAKING, subclass 84, for devices including filing means for cutting off and removing the ends of the sole and heel attaching pins and nails which project into the shoe.

32—DENTISTRY, subclass 46+, for files particularly adapted for cutting tooth structure or bone and gum tissue adjacent to or in the mouth.

60—LEATHER MANUFACTURES, subclass 1, for machines for roughing leather by a filing action, and subclass 20, for implements employed for the same purpose.

76—METAL TOOLS AND IMPLEMENTS, MAKING, subclass 25+, for machines for filing saws to sharpen them, and subclass 82+, for machines for filing other tools to sharpen them.

120—STATIONERY, subclasses 85 to 96, for filing devices employed for pencil sharpening.

132—TOILET, subclass 76.4+, for manicuring tools which have a file or other abrading or polishing surface.

168—FARRIERY, subclass 48, for tools including files for cleaning and trimming the hoof in fitting it for the shoe.

in subclass 77, add:

Search Class—

76—METAL TOOLS AND IMPLEMENTS, MAKING, subclass 12+, for machines for forming cutting ribs or teeth of files and rasps and see the notes thereto for other file forming.

in subclass 78, add:

Search this class, subclass—

95.1—for broaches.

and under "Search Class", cancel the reference to Class 32 and add in order:

30—CUTLERY subclass 346+, for cutting blades per se for use with hand manipulated implements.

32—DENTISTRY, subclass 46, for files particularly adapted for cutting tooth structure or bone and gum tissue adjacent to or in the mouth.

168—FARRIERY, subclass 48, for tools including files for cleaning and trimming the hoof in fitting it for the shoe.

in subclass 80, under "Search Class", cancel the references to Class 32 and Class 279, and substitute:

30—CUTLERY, subclass 340+, for handles specific to cutlery implements and see the notes thereto for tool and implement handles elsewhere classified.
76—METAL TOOLS AND IMPLEMENTS, MAKING, subclass 36, for file holders for saw sharpening files which holders have guides or indicators attached to and carried by the file in its movement which show the operator the angle at which the file is being held.
279—CHUCKS OR SOCKETS, subclass 9+, for socket type handles which make a permanent or temporary readily releasable connection between holder and object.
306—TOOL-HANDLE FASTENINGS, appropriate subclasses for means for securing handles to a rigid part of a portable hand controlled tool, not elsewhere provided for.

in subclass 90, cancel "(2) Note", "(3) Note" and "(4) Note", and insert:

(5) Note.—This subclass includes the blasting of articles with metal shot to harden the surface. Search Class 51, ABRADING, subclass 8+, for sand blast equipment, and subclass 282, for sandblasting methods, and Class 15, BRUSHING, SCRUBBING, AND GENERAL CLEANING, subclass 95+, for devices and processes of shotting material to clean it.
(6) Note.—This subclass includes metal rolling devices for compacting the interior surface of an opening. For apparatus of like structure employed for expanding or flanging tubes, search Class 153, METAL BENDING, subclass 81.
(7) Note.—This subclass includes burnishers in combination with cutters where the combined device may be employed for burnishing without cutting. For reamers which have guiding portions which may burnish but which have cutters which are necessarily used during such burnishing, see Class 77, BORING AND DRILLING, subclass 72+.
(8) Note.—This subclass includes broach-like devices which are forced through an opening in order to burnish the inside of the opening. For broaches which are similarly forced through holes for the purpose of cutting the interior, search this class, subclass 95.1.

Search this class, subclass—
95.1—and see (8) Note above.

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, subclass 26, for devices which drive screw threaded rods or wires into work by a rotary movement combined with means to cut off the rod or wire. The device may form the screw threads on the rod or wire.
12—BOOT AND SHOE MAKING, subclass 70+, for boot and shoe burnishing machines, and subclass 104+, for boot and shoe burnishing hand tools.
15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 95+, and see (5) Note above.
38—TEXTILES, IRONING OR SMOOTHING, appropriate subclasses, as the generic class for devices and processes for producing a smooth appearance on the surface of a textile article or fabric by pressing, stretching, rolling, sliding contact or other means.
51—ABRADING, subclass 8+, and see (5) Note above.
69—LEATHER MANUFACTURES, appropriate subclasses, particularly subclasses 37 to 47, and 21, for machines and methods of burnishing leather, and subclass 17, for leather strap finishing by burnishing.
77—BORING AND DRILLING, and see (7) Note above.
81—TOOLS, and see (6) Note above.
92—PAPER MAKING AND FIBER LIBERATION, subclass 71+, for calendering devices imparting a polished and smooth surface to paper including calenders equally well adapted for cloth or paper.
93—PAPER MANUFACTURES, subclass 83, for machines for reducing to uniform size and burnishing previously made paper tubes.
95—PHOTOGRAPHY, subclass 104+, for burnishing means to polish a photographic image by applying to it heat-pressure or friction and such compounds as facilitate these operations.
204—CHEMISTRY, ELECTRICAL AND WAVE ENERGY, subclass 36, for burnishing steps combined with electrolytic coating, and subclass 140.5, for electrolytic polishing.

in subclass 95, under "Search Class", in the reference to Class 30, add:

, and subclass 346+, for cutting blades per se for use with hand manipulated implements.

and add in numerical order:

142—WOOD TURNING, subclass 56, for cutting tools peculiarly adapted for use in connection with wood turning machines.

in subclass 95.1, cancel the notes and add:

Search this class, subclass—
78+—for files and rasps which are hard smoothing implements having their working faces sharply ridged to form cutting edges or teeth.
96+ and 105—for blades or teeth inserted in a cutter.

Search Class—
90—GEAR CUTTING, MILLING AND PLANING, subclass 33, for machines for general broaching operations and see the notes thereto for other broaching machines.

in subclass 96, cancel "Search this class, subclass 105", and insert:

Search this class, subclass—
48—for the structure of rotatable (turret) toolholders comprising devices for securing the tools in the turret upon its carriage or upon the lathe bed.
105—for rotary cutters which are built up from the body in which are secured smaller separate teeth.

Search Class—
30—CUTLERY, subclass 329, for devices for detachably holding cutting blades for hand manipulation.

in subclass 103, cancel the definition, and substitute:

103. Miscellaneous rotary cutters under subclass 95.

(1) Note.—This subclass includes cutters of the type ordinarily used in milling machines.

Search Class—
12—BOOT AND SHOE MAKING, subclass 91+, for rotary cutter heads used in sole and heel edge trimming machines.
30—CUTLERY, subclass 347, for blades per se for use with hand manipulated implements in which the blade is so constructed as to be rotated during the cutting operation, and see the notes thereto for other rotary blade implements and machines specialized to art uses.

in subclass 105, cancel "Search this class, subclass 96" and insert:

Search this class, subclass—
96—for non-rotary cutters having a small removable and interchangeable blade forming the stock removing portion of the cutter.

and under "Search Class", cancel the references to Class 12 and Class 143, and insert:

10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 146, for screw threading taps made up of several pieces rigidly secured together instead of a single piece of metal.
12—BOOT AND SHOE MAKING, subclass 94, for rotary cutter heads used in sole and heel edge trimmers in which the cutters are not integral with the cutter head, but are inserted therein.
143—WOOD SAWING, subclass 141+, for detachable teeth for insertion into or attachment to the blades of wood saws, and subclass 145+, for means for attaching separable teeth to the blades of wood saws.
144—WOODWORKING, subclasses 224 to 235, for rotary wood working cutters built up by attaching bits to a head.
145—WOODWORKING TOOLS, subclass 126, for augers with detachable cutters.

in subclass 106, under "Search Class", cancel the reference to Class 77, and insert:

10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, for threading die stocks having oil reservoirs usually in the handles, and mechanisms for supplying oil to the cutting ends of the chasers.
77—BORING AND DRILLING, subclass 55, for drill lubricators, and subclass 68 for oil conduit drills having a groove or tube to conduct lubricants to the cutting lip of the drill; also oiling sockets for such drills.

in subclass 110, in "Note I. B", under "Search Class", in the reference to Class 92, change the semi-colon (;) after "wire" to a period (.), and cancel "and 77, for the . . . effecting a glossy finish".

and in the "Index to Classes Referred to in Preceding Sections", in the reference to Class 92, cancel "calender rolls, sub. 77 I B".

in subclass 155.56, in "(3) Note", cancel the reference to Class 93, and substitute:

53—PACKAGE MAKING, appropriate subclasses, for methods of and apparatus for encompassing or encasing goods or materials with a separate cover or band which serves as means for identifying, protecting or unit handling the goods or materials.

in subclass 194, under "Search Class", add in order:

220—METALLIC RECEPTACLES, subclass 64, for metallic receptacles which have a metallic coating lining.

in subclass 200, in "(3) Note, (e)", change the title of Class 1 to read *Nailing, Stapling and Clip Clenching*, and under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 24, for mounting nails in a strip, and also see (3) Note (e), above.

and add in numerical order:

189—METALLIC BUILDING STRUCTURES, subclass 92, for means for inserting expanding land anchors.

in subclass 205, under "Search Class", add in numerical order:

218—BUTTON, EYELET AND RIVET SETTING, subclass 1, for the flanging over the central tube to secure commutators segments in place in accompaniment with radial compression of the segments toward the tube.

in subclass 209, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 235, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

in subclass 237, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

in subclass 239, under "Search Class", insert:

81—TOOLS, subclass 3.7, for special tools for spreading leaf springs apart, usually for the purpose of inserting lubricant therebetween.

in subclass 241, under "Search Class", cancel the reference to Class 223, and insert:

12—BOOT AND SHOE MAKING, subclass 69.5, for machines for placing lacings in the uppers of shoes or removing the lacings therefrom.
112—SEWING MACHINES, subclass 2, for machines for inserting draw strings by means of a needle, subclass 10, for sewing machines which seam bags and also insert draw strings in a hem, and subclasses 223 and 224, for needle threading attachments for sewing machines.
218—BUTTON, EYELET, AND RIVET SETTING, subclass 9, for button setting machines adapted to thread a staple fastener into the eye shank of buttons and then set the staples into the work.
223—APPAREL APPARATUS, subclass 48, for bead stringing, subclass 50, for devices for inserting a tape, thread or cord into a garment, lace and the like, subclass 99, for devices for threading needles, subclass 102+, for needles which are pointed instruments having an eye, hook or equivalent to attach to a thread, tape or the like for sewing, threading or attaching the thread to a fabric, and subclass 105, for curtain rod threaders.

in subclass 244, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

in subclass 254, under "Search Class", add in numerical order:

164—CUTTING AND PUNCHING SHEETS AND BARS, subclass .5, for explosive operated wall tube perforators or splitters.

in subclass 275, under "Search Class", add in order:

145—WOODWORKING TOOLS, subclass 46, for nail sets which drive the head of a nail below the surface of the wood when hit by a hammer.
164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 94, for punching machines of the hammer type in which a separate implement or the operator's hand is used to strike the punching plunger.

in subclass 281, add:

Search Class—
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclass 141+, for tap implements for cutting interior screw threads.
30—CUTLERY, subclass 311, for sweep cutters with a screw device for establishing the center about which the cutter-arm sweeps.

in subclass 282, under "Search Class", insert:

81—TOOLS, subclass 3.05, for devices for extracting a shell, projector or wad from a gun barrel.

in subclass 284, under "Search Class", in the reference to Class 81, after "clock parts" insert:

, subclass 15.2, for work holders for holding deflated tubes while a patch is secured thereto,

and cancel the reference to Class 142, and substitute:

142—WOOD TURNING, subclass 48, for tool rests provided with an extension adapted to support a turned portion of a wooden stick near the cutter and prevent it from springing therefrom, subclass 49, for supports within which wood turning cutter tools are adjusted and secured; subclass 50, for yielding rests or supports for sticks having a regular cross section, such supports preventing the sticks from springing away from the turning cutter; subclass 51, for oval guided work holder chucks provided with weights or counter poises to balance the reciprocating parts of the chuck; subclass 52, for chucks for holding sticks together in the form of a hollow cylinder; subclass 53, for center spindles provided with one or more spurs to engage the end of the stick of wood or other soft material to be turned; subclass 54, for longitudinally perforated rotary spindles through which the sticks feed endwise; and subclass 57, for socket chucks for securing a stick to the large spindle of a wood turning machine.

and in the reference to Class 144, subclass 288, change the period to a comma, and add:

for holding structures of some magnitude in woodworking as doors, blinds, wheels, caskets, etc., in position to be operated on. These devices are usually adjustable.

and add in numerical order:

154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, appropriate subclasses, for work holders for laminating operations.
204—CHEMISTRY, ELECTRICAL AND WAVE ENERGY, subclass 297, for work holders specialized for use in electrolytic processes.

30, Cutlery

in subclass 3, under "Search Class", cancel the reference to Class 220, and substitute:

220—METALLIC RECEPTACLES, subclass 47+, for metal can opening devices or arrangements made up as part of or secured to the can during manufacture, or combined with claimed structure for mounting the device on the can so that the cutter may be capable of repeated use as a closure for the opening formed thereby while said mounting structure is on the can.

in subclass 6.1, add:

Search Class—
220—METALLIC RECEPTACLES, subclass 51, for metal can opening devices comprising a puncturing element secured to the can during manufacture, or combined with claimed structure for mounting the device on the can so that the device may be capable of repeated use as a closure for the opening formed thereby while said mounting structure is on the can.

in subclass 123, under "(5) Note", cancel the reference to Class 1, and insert:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 25, for devices adapted to force wire into the work and afterward cut it off even with the surface of a shoe sole, and appropriate subclasses under implements beginning with subclass 45.5, and subclass 200 for cutters combined with means for applying nails, staples or clips to work by driving and/or clenching.
7—COMPOUND TOOLS, and see (4) Note above.

36, Boots, Shoes and Leggings

in subclass 24, cancel the note and add:

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, subclass 24.5, for strips or carriers in which the pegs are mounted.

45, Furniture

abolish the definitions of subclasses 2 and 3.

51, Abrading

establish the following subclass definitions:

193.5. Devices under subclass 190 wherein a rotatable member has secured thereto an easily bendable abradant-carrying sheet or strip material, thin relative to its length and breadth, which material projects in a radial direction outwardly from the periphery of the member.

(1) Note.—The abrading sheets may be backed up or reinforced by a flexible means such as springs, brushes, rubber or fabric members etc., secured to or on the member, and the sheets may be unitary or of the web supply type, where the web reel is incased within the drum.

Search this class, subclass—
184.2—for expansible abrading tools where the expansion is effected by spring pressure.
193—for abrading devices consisting of a series of layers of flexible, yielding abrading material.

Search Class—
15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 230, for rotary cleaning implements having fabric portions adapted to act as wipers, daubers, or polishers.
26—TEXTILES, CLOTH FINISHING, subclass 28, for abradant devices limited to treatment of cloth.

193.7. Devices under subclass 193.5 including means to store a supply of an abradant strip on or within the rotary member.

53, Package Making

In the class definition, in Section V, in "(50) Note", insert *and* before "subclass 234", and change "or cores" to *and co-extensive cores*.

and in "(59) Note", in the reference to Class 270, before "subclass 55", insert:

subclass 45+, for associating sheets and then folding, and

and in Section VII, in "(79) Note", in the reference to Class 93, before "subclass 1.3" insert:

appropriate subclasses for making paper covers and wrappers, particularly subclass 1, for making bands, laminated cover material including wrapper blanks with tear strips, handles, and other cover adjuncts, other shaped material cover blanks and package reinforcing sheets or troughs;

in subclass 3, under "Search Class", insert:

93—PAPER MANUFACTURES, appropriate subclasses, for the making of paper covers and wrappers, particularly subclass 1, for making bands, laminated cover material including wrapper blanks with tear strips, handles and other adjuncts and other shaped material cover blanks.

in subclass 5, under "Search Class", insert:

93—PAPER MANUFACTURES, appropriate subclasses, for the making of paper covers and wrappers, particularly subclass 1, for making bands, laminated cover material including wrapper blanks with tear strips, handles and other adjuncts and other shaped material cover blanks.

in subclass 16, under "Search this class, subclass", add:

136+—for apparatus wherein a wholly or partly preshaped receptacle is filled and then closed.
151+—for flap folding apparatus.

and in the reference to subclass 138+, after "apparatus", insert:

wherein a filled receptacle or package is closed,

in subclass 22, under "Search this class, subclass", add:

100—for apparatus for forming a partial cover which leaves a reduced projecting portion of the contents exposed.

and under "Search Class", add:

93—PACKAGE MAKING, appropriate subclasses, for the making of paper covers and wrappers, particularly subclass 1, for making bands, laminated cover material including wrapper blanks with tear strips, handles and other adjuncts, multiple bottle or can type carriers and blanks therefor, and for other shaped material cover blanks.

in subclass 24, under "Search this class, subclass", insert:

91—for apparatus for setting up a collapsed preshaped receptacle and filling it.

in subclass 26, under "Search Class", insert:

118—COATING APPARATUS, subclass 1+, for contents controlled adherent applicators per se.

in subclass 28, under "Search this class, subclass", add:

66—for apparatus for accumulating and/or associating a plurality of contents portions of a package.

in subclass 40, add:

Search this class, subclass—
155—for apparatus for feeding cover material per se, which may include cutting a cover blank from a web.

in subclass 47, in the definition, before the period, insert:

or which prevents a constituent of the ambient atmosphere, or another ambient condition from altering a physical or chemical characteristic of the contents material.

in subclass 49, under "Search this class, subclass", add:

66+—especially subclass 72, for apparatus for reorienting a plurality of contents portions to change the shape of the groups contents without changing the shape of the individual contents portions.

in subclass 58, under "Search Class", add:

118—COATING APPARATUS, subclass 58+, for apparatus for combined coating and heat treatment of work.

in subclass 60, under "Search this class, subclass", add:

77+—for apparatus for applying a plurality of covers formed from sheet material.

in subclass 61, under "Search Class", in the reference to Class 93, before "subclass 76", insert:

subclass 1, for apparatus for applying a tear strip to a wrapper, and

in subclass 62, under "Search Class", in the reference to Class 93, before "subclass 36.7", add:

subclass 1, for apparatus for making covers and cover blanks having handles as a part thereof, and

in subclass 69, add:

Search Class—
93—PAPER MANUFACTURES, subclass 1, for apparatus for making package reinforcing sheets or troughs.

in subclass 74, in "(2) Note", after "a vacancy", insert:

brushes for cleaning spilled granular contents from the machine bed;

in subclass 86, under "Search this class, subclass", in the reference to subclass 47+, after "cause" insert *or prevent*.

in subclass 88, add:

Search this class, subclass—
85—for apparatus which first severs and subsequently closes the severed ends.

in subclass 98, under "Search Class", in the reference to Class 93, before "subclass 93", insert *subclass 1 for making bands and*.

in subclass 103, under "Search this class, subclass", add:

75—for apparatus for packaging with selective or alternative supply of plural covers and/or contents.

in subclass 104, under "Search this class, subclass", add:

138+—for apparatus for closing packages and filled receptacles.

in subclass 109, add:

Search this class, subclass—
59—for machines for notching a cover blank for other than forming notches or slits for aid in folding the blank.

in subclass 122, add:

Search this class, subclass—
15—for corresponding methods.

in subclass 142, under "Search this class, subclass", add:

130+—for apparatus for making an initial U-fold and then forming an outturned longitudinal seam.

in subclass 154, under "Search this class, subclass", add:

144—for apparatus for heating or cooling an outturned seam of cover material, and see the notes thereto for other heating or cooling of the cover material.

in subclass 155, under "Search Class", add:

93—PAPER MANUFACTURES, subclass 1, for machines for making wrappers having tear strips incorporated therein.

in subclass 156, add:

Search Class—
93—PAPER MANUFACTURES, appropriate subclasses, for the making of paper covers and wrappers, particularly subclass 1, for bands, for laminated cover material, including wrapper blanks with tear strips handles and other adjuncts for shaped material cover blanks, and for reinforcing sheets or troughs for packages.

56, Harvesters

in subclass 464, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

59, Chain, Staple and Horseshoe Making

in subclass 27, under "(2) Search Classes", add:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

in subclass 35, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 60+, for processes of securing nails, staples and clips to work by driving and/or clenching.

in the unnumbered subclass "Staple Making", preceding subclass 71, in "(4) Note" change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 77, in "(1) Note" and under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

61, Hydraulic and Earth Engineering

in subclass 73, under "Search Class", add:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for methods of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

68, Textiles, Fluid Treating Apparatus

in subclass 222, cancel "(1) Note".

69, Leather Manufactures

in subclass 18, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

77, Boring and Drilling

in subclass 32, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

78, Metal Forging and Welding

in the class definition, number the paragraphs from 1 to 4 inclusive, and in paragraph "2, Search Class", insert in numerical order:

1—NAILING, STAPLING AND CLIP CLENCHING, subclasses 9, 27+, and 51, for devices for making and driving nails.
10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, subclasses 28–71 inclusive, particularly those subclasses having the word "header" therein, for devices and processes for making nails.

in subclass 46, number the note (*1*), and add:

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.
218—BUTTON, EYELET AND RIVET SETTING, and see (1) Note above.

81, Tools

in subclass 15, cancel the note and substitute:

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching, and see Section VI of the class definition of that class (1).
140—WIREWORKING, subclass 123, for tools limited to bending wire.

in subclass 52.3, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 177, cancel the note and search references.

85, Driven, Headed and Screw-Threaded Fastenings

in subclass 17, in "(2) Note", and "(3) Note", and under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

92, Paper Making and Fiber Liberation

in subclass 68, under "Search Class", insert:

29—METAL WORKING, subclass 110+, for rolls per se not elsewhere provided for, and see the notes thereto for other rolls and combinations involving rolls.

abolish the definition and notes of subclass 77.

93, Paper Manufactures

in the class definition, under "Search Class", add:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.
11—BOOKS, MAKING, appropriate subclasses, for book making.
57—TEXTILES, SPINNING, TWISTING AND TWINING, and see (2) Note above.
92—PAPER MAKING AND FIBER LIBERATION, and see (1) Note above.
144—WOODWORKING, subclass 51, for match manufactures from paper board.
154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, and see (1) Note above.

in subclass 41.1, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 42.8, for corner conforming staple applying.

in subclass 42, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for making and/or applying staples.

in subclass 56, cancel the note, and under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 42.8, for machines for driving metallic stays into corners of boxes.

in subclass 61, add:

Search Class—
129—STATIONERY, subclass 35, for envelope openers.

in subclass 83, under "Search Class", cancel the reference to Class 29, and substitute:

29—METAL WORKING, subclass 90+, for machines or processes for condensing, compacting, smoothing or polishing the surface of metallic or nonmetallic articles, usually by rubbing with a smooth surface of greater hardness than that of the article being operated upon.

in subclass 88, under "(2) Search Classes", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 89, in "(2) Search Classes", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 91, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 40, for machines adapted to insert hanging loops, usually of wire, into the corners of packages of paper or pamphlets.

104, Railways

in subclass 17, add:

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

112, Sewing Machines

in subclass 21, under "Search Class", add:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 7, for stapling machines for making and applying staples to signatures and having means for feeding the work relative to the stapler.

in subclass 30, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, particularly subclasses 66 and 200, for processes of and apparatus for nailing, stapling and clenching combined with unnailing, unstapling and clip opening, and see Section VI of the class definition of that class (1).

113, Sheet-Metal Ware, Making

in subclass 23, add:

Search Class—
226—FILLING AND CLOSING PORTABLE RECEPTACLES, subclass 87, for rotary closure applying and conforming tools.

in subclass 33, cancel "(2) Note" and add:

(3) Note.—This subclass includes the making of tubes by bending a sheet metal blank and thereafter seaming the edges together. For merely bending the blank to tube forming shape, see Class 153, appropriate subclasses.

and cancel "(3) Search Class" and the reference to Class 153, and substitute *Search Class*, and add in numerical order:

29—METAL WORKING, subclass 156, for processes of tube making not otherwise classified, and subclass 188, for processes of making compound tubing.

153—METAL BENDING, subclass 32+, for machines for bending sheets into tube blanks, having a longitudinally extending seam, and subclass 64+, for machines for bending sheet metal into a spiral blank for making spirally seamed tubes, and see (3) Note above.

in subclass 38, add:

(1) Note.—The shaping of articles from dry paper by means of drawing dies is here included. For die shaping previously made paper into articles of commerce, search Class 93, PAPER MANUFACTURES, except for those which mold the articles in heated dies which are classified in Class 18, PLASTICS. Class 18 also includes the molding of the article from moist paper.

under "Search Class", cancel the references to Classes 18 and 153, and substitute:

18—PLASTICS, subclass 19, for presses for shaping and embossing plastic non-metallic sheets and not substantially changing the thickness, as distinguished from molding from a shapeless plastic mass, and subclass 35, for sheet shaping molds, and see (1) Note above.
29—METAL WORKING, subclass 1.3+, for devices for shaping metallic cases for fixed ammunition.
69—LEATHER MANUFACTURES, subclass 8, for apparatus for molding, clamping or pressing leather for forming and shaping articles.
101—PRINTING, subclass 3+, for embossing or penetrating printing presses having means for producing characters or designs on surfaces by dies adapted to deform or remove portions of the material.
153—METAL BENDING, subclass 23, for pan shaped, reciprocating die benders, and subclass 79+, for pipe flangers.
197—TYPEWRITING MACHINES, subclass 6+, for key operated machines for the production at will of printed matter generally which are adapted for producing characters in relief, in or entirely through the material.

in subclass 42, add:

Search Class—
69—LEATHER MANUFACTURES, subclass 2, for machines for cutting or trimming leather and at the same time creasing or otherwise impressing it for ornamental purposes or which simply crease or impress leather without cutting.
164—CUTTING AND PUNCHING SHEETS AND BARS, appropriate subclasses, particularly subclass 11+, for combined punching and cutting, subclass 17+, for cutting and subclass 85+, for punching and pricking.

in subclass 44, change "(2) Search Class" to *Search Class*, and insert:

12—BOOT AND SHOE MAKING, subclass 33+, for machines employing resilient dies for pressing cement covered soles to lasted uppers.

in subclass 46, cancel the second sentence in the definition, and add:

(1) Note.—This subclass includes the drawing of cartridge cases.

Search Class—
153—METAL BENDING, subclass 48, for "stretching" presses in which a sheet-metal blank is gripped at opposite edges and a die is forced in between them to stretch the material in conformity with the die and the material is gripped firmly so that it cannot slip through the gripping elements.
164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 110, for attachments for punch presses for holding the material firmly against the bed while the punch is descending.

in subclass 49, under "Search Class", insert:

12—BOOT AND SHOE MAKING, subclass 38, for dies and formers frequently of the resilient type which engage a sole to lay and level the same against the bottom of a lasted upper.
18—PLASTICS, subclass 35, for molds for embossing sheets of plastic non-metallic material.
101—PRINTING, subclass 28, for dies and holders therefor for embossing and penetrating printing machines which produce characters or designs on surfaces by dies adapted to deform or remove portions of the material.

in subclass 50, under "Search Class", cancel the reference to Class 164, and substitute:

22—METAL FOUNDING, subclass 94, for apparatus for operating an ejector to force or draw the casting from the mold not in combination with any other mold operating or casting device, and subclass 154, for metal molds provided with an ejector for the casting but not with mechanism for operating it.
25—PLASTIC BLOCK AND EARTHENWARE APPARATUS, subclass 120, for molds for forming articles of earthenware or artificial stone composition which molds have means for ejecting the blocks from the mold.
164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 33, for dies for die cutting machines which have means for ejecting the blank or piece from the die after the blank is stamped out; subclass 51, for reciprocating cutter machines which have clamping mechanism for holding the material which mechanism is automatic in its action as distinguished from those machines in which the work clamp is set up by the hand; and subclass 54, for like mechanism in which the reciprocating knife also has any shearing movement usually in machines for cutting piles of paper; and subclass 110, for attachments for punch presses for stripping off the material from the punch as the latter rises.

in subclass 59, cancel "(1) Note", and under "Search Class", insert:

18—PLASTICS, subclass 24+, for apparatus for molding the particles by immersing the mold in liquid material, withdrawing the mold coated with material, and removing the article from the mold.
219—ELECTRIC HEATING, appropriate subclasses, for soldering or welding by electric means.

in subclass 102, add:

(1) Note.—This subclass includes cables which extend circumferentially of a tube having overlapped longitudinal edges which cable is pulled tightly around the tube for holding the edges relative to each other during a soldering or welding operation.

in subclass 111, add:

Search Class—
29—METAL WORKING, subclass 81, for hammers for removing scale from welds.

119, Animal Husbandry

in the class definition, Section II, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for clenching rings, and clips upon animals.

and in the reference to Class 128, after "316" add *and*, and cancel "and 332"; after "tagging" insert *and* and cancel "and ring . . . instruments".

in subclass 135, add:

(1) Note.—Devices and method for attaching devices for this subclass by forcing them through a part of the animal, with or without a preformed opening, and with or without a subsequent clenching operation will be found in Class 1, NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, and see Section IX, (90) Note to the class definition of that class for a statement of the line between Classes 1 and 119 when either the ring, clip, etc., is claimed along with the process of or apparatus for applying it.

and under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, and see (1) Note above.

120, Stationery

in the class definition, under "Search Class", add:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for nailing and stapling machines and implements, particularly subclass 2.1+, for desk type staple forming and setting machines; and subclass 3, for magazine type staple setting machines.

124, Mechanical Guns and Projectors

in subclass 11, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 45, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

128, Surgery

cancel the definition of subclass 330 and substitute:

330. Devices under subclass 303, for inserting hair into the skin, for inserting tags and similar devices under the skin, and for piercing the skin for the reception of rings where the piercing element carries the ring through the skin.

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for apparatus for and processes of inserting rings and tags through the skin by means of a nailing, stapling or clip clenching operation.

63—JEWELRY, subclass 12+, for earrings.
119—ANIMAL HUSBANDRY, subclass 135, for hog rings.
218—BUTTON, EYELET AND RIVET SETTING, subclass 19, for hollow riveting apparatus including those for fastening tags through the skin, subclass 20+, for button inserting and setting apparatus, and subclass 29, for processes within that class (218) definitions.

abolish the definitions of subclasses 331 and 332.

in subclass 337, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

129, Paper Files and Binders

in the class definition, add:

Search Class—
312—SUPPORTS, CABINET STRUCTURES, subclass 183+, for cabinets, generally called "file cabinets", having card or sheet supports, as drawers, shelves, pigeon-holes, or compartments with card or sheet retainers; and subclass 234.1+, for cabinets having sheet supports with indexes of contents, and appropriate subclasses, especially 319+, for means for operating movable card and sheet holders from housed position.

131, Tobacco

in subclass 106, add:

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for methods of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

in subclass 113, add:

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for methods of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

in subclass 114, in the note, change the title of class 1 to *Nailing, Stapling and Clip Clenching*.

140, Wireworking

in the class definition, under "Search Class", insert:

57—TEXTILES, SPINNING, TWISTING AND TWINING, for the making of wire rope particularly subclass 59+, for wire preforming or shaping cut prior to twisting into rope form, and subclass 166, for wire rope making methods involving twisting.

in subclass 3, cancel "(2) Search Class" and substitute *Search Class*, and insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

in subclass 25, change "(2) Search Class" to *Search Class*, and change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 53, change "(2) Search Class" to *Search Class*, and change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

abolish the definition and notes of subclass 55.

in subclass 71, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 80, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 82, change "(2) Search Class" to *Search Class*, and cancel the reference to Class 128, and insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for methods of and apparatus for applying rings, clips, etc., to livestock, e. g., hogs.

in subclass 87, change "(2) Search Class" to *Search Class*, and insert:

59—CHAIN, STAPLE AND HORSESHOE MAKING, subclass 71+, for making or forming staples, generally U-shaped, having legs substantially equal in length and adapted to be driven into wood or other material.

in subclass 88, change "(2) Search Class" to *Search Class*, and change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 93, under "Search Class", change the title of Class 1 to read *Nailing, Stapling and Clip Clenching*, and cancel "and 40", and substitute:

and subclass 40, for packet loopers, and subclass 60+, for processes of and appropriate subclasses for apparatus for clenching clips to work.

in subclass 96, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

in subclass 102, change "(2) Search Class" to *Search Class*, and change the title of Class 1 to *Nailing, Stapling and Clip Clenching*, and cancel "and 40" and substitute:

and subclass 40, for packet loopers, and subclass 60+, for process of and appropriate subclasses for apparatus for clenching clips to work.

in subclass 104, change "(2) Search Class" to *Search Class*, and cancel the reference to Class 128, and insert:

1—NAILING, STAPLING AND CLIP CLENCHING, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

in subclass 111, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.
56—HARVESTERS, subclass 432+, for means mounted on a harvester and operatively connected therewith for forming compact bundles of stalks and binding them as the harvester travels through the field, particularly subclass 451+, wherein the bundle is encircled by wire or the like, and the ends of the wire twisted together, and subclass 464+, for such devices wherein a cord binder is used the ends of which are clamped together by a clip.
289—TYING CORDS OR STRANDS, appropriate subclasses, for devices for joining cords or strands wherein the portions of the parts joined are not held together by reasons wholly of the rigidity of the material.

in subclass 117, add:

Search Class—
153—METAL BENDING, subclass 6, for coiling for the bending of tubes, bars, and sheets into coils.

in subclass 124, add:

Search Class—
153—METAL BENDING, subclass 64+, for the bending of tubes, bars and sheets into coils.

in subclass 125, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*, and insert:

78—METAL FORGING AND WELDING, subclass 97, for mechanisms for feeding wire or strips to forging or welding machines.

in subclass 129, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 177, for devices for applying nails, staples and clips to work by driving and/or clenching including means for making the element applied and having means for feeding and cutting the blank from which the element is made.

in subclass 130, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 132, change "(2) Search Class" to *Search Class*, and cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 177, for devices for applying nails, staples and clips to work by driving and/or clenching, including means for feeding and cutting the blanks from which the element is made, and see the notes thereto for similar devices elsewhere in the class.

in subclass 140, add:

Search Class—
1—NAILING, STAPLING AND CLIP CLENCHING, subclass 175+, for devices for applying nails, staples and clips by driving and/or clenching in combination with means to form the element to be applied including cutting predetermined lengths of wire.

144, Woodworking

in subclass 31, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 32, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching, particularly subclass 26, for machines adapted to insert screw wire into a shoe sole by a rotary movement of a spindle and afterwards cut the wire even with the surface of the sole.

145, Woodworking Tools

in subclass 24 cancel the note and under "Search Class", in the reference to Class 29, cancel "such as cold chisels and analogous tools", and insert :

30—CUTLERY, subclass 168, for hand manipulable cutting tools commonly known as cold chisels for cutting metal in a cold state, and see the notes thereto for chisels elsewhere classified.

in subclass 29, under "Search Class", insert :

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

in subclass 30, add :

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

in subclass 31, insert :

Search this class, subclass—

168 + —for saw handles.

in subclass 46, add :

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

29—METAL WORKING, subclass 275 +, for hand manipulable assembling tools to be applied to the work and to receive an impact from an outside source and transmit the blow to the work.

in subclass 50, under "Search Class", add :

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

144—WOODWORKING, subclass 32, for machines adapted to set or drive screws.

in subclass 108, add :

Search this class, subclass—

31 + —for the general structure of hand saws.

in subclass 126, change "(2) Search Class" to *Search Class*, and insert :

29—METAL WORKING, subclass 105, for rotary cutters built up from a body and in which smaller separate cutting teeth are secured.

147, Coopering

in subclass 47, under "Search Class", cancel the reference to Class 1, and substitute :

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 13.5 +, for miscellaneous fastener inserting machines for attaching together the component parts of baskets and barrels.

153, Metal Bending

in the class definition, add :

(2) Note.—The making of lock washers and nuts by bending only will be found in Class 153, METAL BENDING, while bending in combination with other steps for making these articles is in Class 10, BOLT, NAIL, NUT, RIVET AND SCREW MAKING.

(3) Note.—For the bending of wire particularly into hooks and eyes, see Class 140, WIREWORKING. Hook forming is in Class 140, subclass 80 + and eye forming is in Class 140, subclass 104. See also Class 29, METAL WORKING, subclass 7, for eye, bolt and hook making.

(4) Note.—For working of previously made paper into articles of commerce, see Class 93, PAPER MANUFACTURES, appropriate subclasses, except in those cases where the article is made from dry paper by means of drawing dies for which see Class 113, SHEET-METAL WARE, MAKING, subclass 38 +.

(5) Note.—Assembling combined with bending may be found in both Class 29 and this class (153). The line is :

Class 153 takes bending operations (even though parts may be assembled or secured thereby) provided that no more than the apparatus or process for accomplishing the bending is claimed. In cases involving binding and covering by bending, apparatus and methods which merely position the binding or covering are in Class 153, subclass 1. In all other cases, where additional structure for, or steps of, relatively positioning one or more parts with relation to other of the parts for assembling are claimed, classification is in Class 29, METAL WORKING.

(6) Note.—This class (153) takes the combination of metal bending and cutting, Class 29, METAL WORKING, subclass 33 +, takes machines, not elsewhere classified, in which bending is claimed in combination with other means for stapling and/or working metal, particularly subclass 34 which takes the combination of forging and bending, cutting or punching.

Search this class, subclass—

1—and see (5) Note above.

and under "Search Class", cancel the reference to Class 29, and substitute :

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for apparatus for and methods of securing nails, staples and clips to work by driving and/or clenching.

10—BOLT, NAIL, NUT, RIVET AND SCREW MAKING, appropriate subclasses, and see (2) Note above.

18—PLASTICS, subclass 10, for apparatus for embossing and shaping sheets of plastic material by rolling, subclass 35, for molds for embossing sheets of plastic material, and subclass 56, for methods of embossing sheets of plastic material.

29—METAL WORKING, in general, and see (5) Note, above ; subclass 7 and see (3) Note above ; subclass 17 +, for bending packs of sheets to separate them and/or for folding and rerolling such packs ; subclass 33 +, and particularly subclass 34 and see (6) Note above ; subclass 148 +, for assembling processes ; and subclass 200 +, for assembling apparatus.

30—CUTLERY, subclass 6.3, for can openers combined with means to deform or bend the material of the can to form pouring spouts.

38—TEXTILES, IRONING OR SMOOTHING, appropriate subclasses, for smoothing textiles.

45—FURNITURE, subclass 24 +, for fabric stretching frames.

49—GLASS, subclass 22 +, for apparatus for reshaping previously formed glass blanks while in a soft or plastic state, subclass 44, for apparatus for flattening split glass cylinders, subclass 67, for molds for bending sheet glass, subclass 84, for processes of reshaping previously formed blanks, and subclass 87, for processes of molding sheet glass.

59—CHAIN, STAPLE AND HORSESHOE MAKING, appropriate subclasses, particularly subclasses 27 and 56 and various other subclasses having the word bending in the title, for making horseshoes, chains and staples by bending.

69—LEATHER MANUFACTURES, subclass 33 +, for hide folding, flexing, suppling or crumpling.

73—MEASURING AND TESTING, subclass 100, for testing the strength of materials by bending.

76—METAL TOOLS AND IMPLEMENTS, MAKING, appropriate subclasses, for bending combined with other operations in the manufacture of tools, particularly 25 +, for saw making in general, especially subclasses 26 and 27, for stretching saws and subclass 58 +, for setting saws.

81—TOOLS, subclass 15 +, for hand tools for metal bending.

86—AMMUNITION AND EXPLOSIVE-CHARGE MAKING, subclass 39 +, for crimping shells to bullets.

93—PAPER MANUFACTURES, appropriate subclasses, and see (4) Note above.

101—PRINTING, subclass 3 +, for printing by embossing.

107—BREAD, PASTRY AND CONFECTION MAKING, subclass 49, for pie crimpers.

112—SEWING MACHINES, subclass 147, for folding guides for sewing machines.

113—SHEET-METAL WARE, MAKING, appropriate subclasses, for bending sheet metal and for closing or pressing lock seams therein, particularly subclass 7 +, for can making machines including head seaming machines, subclass 33 +, for tube making machines, subclass 38 +, for die presses for forming disked or tubular articles and see (4) Note, above, subclass 51, for die shaping processes, subclass 52 +, for drawing plates by spinning, subclass 54 +, for other seaming machines, subclass 116 +, for processes for shaping various articles, and subclass 120 +, for processes of receptacle and container seaming.

134—CLEANING AND LIQUID CONTACT WITH SOLIDS, subclass 16 +, for processes including distortion and deformation of work.

140—WIREWORKING, appropriate subclasses, particularly subclasses 80 and 104, and see (3) Note, above.

144—WOODWORKING, subclass 254 +, for the bending of wood.

148—METAL TREATMENT, subclass 11.5 +, for combined bending and heat treatment of work.

154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, subclass 30 +, for corrugation of fabrics for that class (154).

205—METAL DRAWING, subclass 9 +, for tube welding, subclass 17 +, for wire covering, subclass 27, for skelping dies, and subclass 28, for welding dies.

218—BUTTON, EYELET AND RIVET SETTING, appropriate subclasses, for setting eyelets and hollow rivets.

219—ELECTRIC HEATING, subclass 3, for shaping metal combined with electric heating.

222—DISPENSING, subclass 80 +, for dispensing combined with cutting or punching.

223—APPAREL APPARATUS, subclass 12 +, for hat shaping, subclass 28 +, for plaiting, fluting and shirring, subclass 37 +, for folding, and subclass 52 +, for forming, pressing, molding and stretching.

242—WINDING AND REELING, appropriate subclasses, for winding and reeling.

in subclass 1, under "Search Class", add :

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for securing elements, nails, staples and clips to work by driving and/or clenching.

205—METAL DRAWING, subclass 17 +, for covering wire.

in subclass 9, cancel "Search this class, subclasses 30, 59, 71 and 77" and substitute :

Search this class, subclass—

30—for tinners' rolls employed for flanging angularly.

59—for rolling devices which merely curl over the edge of a tube or sheet.

60 + —for pipe expanders and flangers which merely form a bead on the tube.

77—for corrugating devices employing rolls.

79 + —for pipe expanders and flangers which merely form a bead on the tube.

in subclass 11, add :

Search Class—

270—SHEET-MATERIAL ASSOCIATING OR FOLDING, subclass 61 +, for folders for folding flexible material not otherwise provided for.

in subclass 15, add :

Search Class—

270—SHEET-MATERIAL ASSOCIATING OR FOLDING, subclass 80 +, for devices for folding flexible material employing a blade moving to and fro in an arc.

in subclass 21, add :

Search Class—

270—SHEET-MATERIAL ASSOCIATING OR FOLDING, subclass 83 +, for folders for flexible materials which have a blade moving to and fro in a straight path.

in subclass 24, cancel "Search this class, subclass 27", and substitute :

Search this class, subclass—

27—for reciprocating angular benders which have a rotating bending head, usually carrying antifriction rolls, which moves in the path of metal to be bent, usually employed for flanging holes.

79 + —for pipe expanders and flangers which do not travel circumferentially of the pipe.

in subclass 64, add :

(1) Note.—For processes of bending and heat treatment of metal see Class 148, METAL TREATMENT, and for corresponding apparatus see Class 266, METALLURGICAL APPARATUS, subclass 2 +.

and under "Search Class", cancel the reference to Class 140 and add in numerical order :

80—METAL ROLLING, subclass 32, for coiling mills.

140—WIREWORKING, subclass 71 +, for article making or forming, particularly subclass 71.5 +, for processes and apparatus for shaping filaments for electric lamps or electric space discharge devices where more than mere coiling is involved, and subclass 78 +, for the manufacture of conical springs. See subclass 92.3 +, for processes and apparatus including helix making in combination with guiding and/or positioning so as to interlace said helix with other helices or with successive loops or apertures. See also subclass 117, for implements employed in coiling or winding one wire about another, and subclass 124, for implements employed in making a wire coil.

148—METAL TREATMENT, appropriate subclasses, and see (1) Note above.

266—METALLURGICAL APPARATUS, subclass 2 +, and see (1) Note above.

in subclass 68, add :

Search Class—

154—LAMINATED FABRIC AND ANALOGOUS MANUFACTURES, subclass 30 +, for corrugating and indenting fabrics within the meaning of that class (154).

223—APPAREL APPARATUS, subclass 28 +, for devices for pleating garments.

in subclass 79, cancel "(1) Search this class, subclass 24", and substitute :

Search this class, subclass—

9—for bending rolls which simultaneously form a bead in and crimp a tube.

24—for angular benders in which a reciprocating member is screw actuated which devices are often employed for flanging holes in the sides of tubing.

and cancel "(2) Search Class" and all references thereunder, and substitute :

Search Class—

29—METAL WORKING, appropriate subclasses, for methods involving pipe expanders and flanging ; particularly subclass 90 +, for burnishing machines and processes for condensing, compacting, smoothing or polishing the surface of metallic or non-metallic articles usually by rubbing with a smooth surface of greater hardness than the article being operated upon ; and subclass 148 +, for processes of manufacture, assembly and disassembly, notably subclass 156, for making ferrules, rings, thimbles and tubes, subclass 156.4, for methods of applying liners to fluid motor cylinders, subclass 156.7, for applying seats to valves of fluid motors, subclass 157.1, for applying seats to gas and water valves, subclass 157.4, for applying tubes to tube sheets, and subclass 162, for lining pipes and tanks with sheet-metal.

30—CUTLERY, subclass 92, for pipe cutters which act internally of the pipe and do not travel circumferentially of the pipe.

49—GLASS, subclass 27, for apparatus for spreading or flaring blanks of glass while in a soft or plastic state to make the bottom and tops of lamp chimneys, tops of pitchers, etc., which apparatus may include a means for opening the end of the blank, usually as a part of the spreading device.

78—METAL FORGING AND WELDING, subclass 63, for forging dies used for increasing the cross section of tubes by pressure blows.

218—BUTTON, EYELET AND RIVET SETTING, subclasses 1 + and 19, for devices for setting hollow rivets in various kinds of work usually by expanding them.

in subclass 80, under "Search Class", add :

51—ABRADING, subclass 184.3, for wedge expanded abrading tools.

77—BORING AND DRILLING, subclass 75.5 +, for wedge expanded reamers.

in subclass 81, under "Search Class", cancel the reference to Class 30 and substitute :

30—CUTLERY, subclass 93 +, for rotary pipe cutters which travel circumferentially of the tube cut, and subclass 103, for internal pipe cutters.

in subclass 82, under "Search Class", cancel the reference to Class 30 and substitute :

30—CUTLERY, subclass 106 +, for rotary internally acting pipe cutters which are wedge expanded.

154, Laminated Fabric and Analogous Manufactures

in the class definition, in "(1) Note", and under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

in subclass 1, under "Search Class", add in numerical order :

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for methods of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

in subclass 119, in "(1) Note" and under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

160, Closures, Partitions and Panels, Flexible and Portable

in subclass 405, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

163, Needle and Pin Making

in subclass 8, under "Search Class", insert :

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for applying nails to work by driving.

164, Cutting and Punching Sheets and Bars

in subclass 86.5, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching*.

168, Farriery

in subclass 45, add :

Search Class—

7—COMPOUND TOOLS, appropriate subclasses, for miscellaneous compound tools, and see the notes to the class definition of that class (7) for compound tools elsewhere classified.

in subclass 48, under "Search Class", add :

29—METAL WORKING, subclass 76 +, for devices and processes for filing metal, which may be defined as cutting metal by a hard instrument having its surface or surfaces sharply ridged, particularly subclass 78 +, for files per se.

in subclass 49, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

178, Telegraphy

in subclass 5, in the "Search Class" under "(1) Note", cancel the reference to Class 91, Coating, and substitute:

118—COATING APPARATUS, and see (1) Note above.

193, Conveyers, Chutes, Skids, Guides and Ways

in the class definition, under "(4) Note", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

198, Conveyers, Power Driven

in subclass 53, in "(2) Note", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 133, cancel "(2) Note" and the reference to Class 1 and Class 112, and substitute:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 7, for devices for feeding signatures and forming and applying staples.

112—SEWING MACHINES, subclass 21+, for book sewing machines having feeding devices for feeding signatures.

in subclass 209, in "(2) Note" change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

205, Metal Drawing

in subclass 17, cancel "(2) Note", and change "(3) Search Class" to *Search Class* and insert thereunder:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

57—TEXTILES, SPINNING, TWISTING AND TWINING, subclass 3+, for machines for securing or spirally winding strands of cord or wire of indefinite length.

206, Special Receptacles and Packages

in the class definition, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

216, Label Pasting and Paper Hanging

in the class definition, in the parenthetical expression at the end of the first paragraph, cancel "93, Paper Manufactures, subclass 2", and substitute *53, Package Making, appropriate subclasses.*

218, Button, Eyelet and Rivet Setting

in the class definition, add:

Search Class—

112—SEWING MACHINES, subclass 66, for eyelet making by applying threads about the periphery of a hole by means of a needle.

in subclass 1, add:

(1) Note.—This subclass includes the expansion of a central tube within a commutator to flange the ends of the tube to hold commutator segments in position.

and under "(2) Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 2, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 2.1, cancel "(2) Search Class" and the reference to Class 1, and add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 3, for staple setting magazine type machines, and subclass 49, for staple setting magazine type implements.

in subclass 5, under "Search Class", cancel the reference to Class 1 and insert:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 19, for miscellaneous loose nail driving shoe machines.

in subclass 6, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 8, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 9, add:

Search Class—

29—METAL WORKING, subclass 241, for apparatus for assembling or disassembling by a stringing action, either by stringing parts on an attenuated or elongated means by passing such means through a part or parts.

in subclass 12, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 6, for miscellaneous devices for arranging and feeding loose nails for nailing machines or implements, and see the notes thereto for similar devices elsewhere classified.

112—SEWING MACHINES, subclass 113, for feeders for feeding buttons to sewing machines for attachment to work.

in subclass 13, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 15, under "(2) Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

in subclass 19, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching.

112—SEWING MACHINES, subclass 113, for feeders for feeding buttons to sewing machines for attachment to work.

in subclass 21, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 47+, for nail driving implements.

in subclass 24, cancel "(2) Search Class" and the reference to Classes 1 and 164, and substitute:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 50+, for implements for setting staples.

164—CUTTING AND PUNCHING SHEETS AND BARS, subclass 124, for punches per se.

in subclass 28, under "Search Class", cancel the reference to Class 1, and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 56, for packages of fasteners to be used in nailing or stapling where the package is more than a mere box or container.

in subclass 29, under "Search Class", insert:

1—NAILING, STAPLING AND CLIP CLENCHING, subclass 60+, for methods of securing nails, staples and clips to work by driving and/or clenching.

220, Metallic Receptacles

in the class definition, under "(2) Note", change the reference to Class 45 to read:

45—FURNITURE, subclass 28+, for soap holders.

in subclass 48, under "Search Class", cancel the reference to Class 30, and substitute:

30—CUTLERY, subclass 3+, for opening devices which are cutting implements and which may be mounted on the receptacle for the cutting operation but which are completely disassociated from the receptacle to empty the receptacle contents.

in subclass 51, cancel the definition only and substitute:

51. Devices under subclass 47, comprising a puncturing element which also serves as, or is carried by, a closure for the puncture, said element being secured to the receptacle during manufacture, or combined with claimed structure for mounting the device on the receptacle so that the closure may be capable of repeated use as a closure while said mounting structure is on the can.

and under "Search Class", cancel the reference to Class 30, and substitute:

30—CUTLERY, subclasses 6.1 and 16, for puncturing and closing devices which may be mounted on the receptacle for the puncturing or closing operation but which are completely disassociated from the receptacle to empty the receptacle contents.

222, Dispensing

in the class definition, Section 5, (I), (II), and (III), change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

223, Apparel Apparatus

in subclass 61, add:

Search this class, subclass—

15—for hat shaping devices employing stretching.

Search Class—

29—METAL WORKING, subclass 235, for devices for stretching resilient sleeves for assembling articles within them.

153—METAL BENDING, subclass 35, for machines for stretching metal forms to shape them and for machines for stretching sheets to lengthen them and to flatten them, and subclass 48, for machines which grip the edges of sheets and shape them by forcing a former against the sheet thereby stretching it to the shape of the former.

in subclass 67, add:

Search Class—

12—BOOT AND SHOE MAKING, subclass 129, for forms for shaping and stretching shoes, which are inflated by pneumatic pressure while inserted in the shoe.

in subclass 102, under "Search Class", add:

289—TYING CORDS OR STRANDS, subclass 16, for needles or machines for tying cords or strands.

in subclass 109, add:

Search Class—

206—SPECIAL RECEPTACLES AND PACKAGES, subclass 17, for some cases having recesses for holding needles, and subclass 66, for needle and pin packages, and some needle cases arranged to fit within the central bore of a thread-spool.

241, Solid Material Comminution or Disintegration

in the class definition, under "(12) Search Class", cancel the reference to Class 91 and insert:

118—COATING APPARATUS, sections 4 and 10.

242, Winding and Reeling

in subclass 103, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

254, Pushing and Pulling Implements

in subclass 18, under "Search Class", add:

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

in subclass 26, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching, and see Section VI of the class definition of that class (1).

in subclass 28, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching, and see Section VI of the class definition of that class (1).

in subclass 57, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

270, Sheet-Material Associating or Folding

in subclass 37, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for devices for processes of and devices for securing nails, staples and clips to work by driving and/or clenching, particularly subclass 165, for such devices including means for feeding or ejecting the material.

in subclass 53, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for securing nails, staples and clips to work by driving and/or clenching, particularly subclass 165, for such devices combined with means for feeding the work to or from the applying device.

281, Books, Strips and Leaves

in subclass 25, under "Search Class", cancel the reference to Class 1 and substitute:

1—NAILING, STAPLING AND CLIP CLENCHING, subclasses 7 and 8, for machines for applying staples to books and signatures.

286, Packed Shaft or Rod Joints

in the class definition, under "Search Class", cancel the reference to Class 74 and substitute:

74—MACHINE ELEMENTS AND MECHANISMS, subclass 17.8, for an imperforate flexible seal through which movement is transmitted by movable members engaging either side thereof, and subclass 18+, for a flexible sealing diaphragm attached to a casing and to a moving rod which extends through the diaphragm.

288, Joint Packings

in the class definition, in "(2) Note", under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

294, Handling, Hand and Hoist-Line Implements

in the class definition, under "Search Class", change the title of Class 1 to *Nailing, Stapling and Clip Clenching.*

300, Brush, Broom and Mop Making

in subclass 2, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and apparatus for securing nails, staples and clips to work by driving and/or clenching.

in subclass 13, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

in subclass 20, add:

Search Class—

1—NAILING, STAPLING AND CLIP CLENCHING, appropriate subclasses, for processes of and devices for securing nails, staples and clips to work by driving and/or clenching.

312, Supports, Cabinet Structures

in the class definition, section 5, change the reference to Class 45 to read:

45—FURNITURE, see sections 4 (*g*) and 4 (*h*); subclass 28+, for soap holders.

establish the following subclass definitions:

183. Structures under the class definition in which the article supports or components are specially adapted for the support of cards or sheets by the provision in the organization of means for releasably securing the cards or sheets, generally in a stacked relationship, to the article supports.

Search Class—

129—PAPER FILES AND BINDERS, appropriate subclasses, for article supports per se, with card or sheet retainers.

184. Structures under subclass 183, in which the cards or sheets are supported substantially vertically and depend from the support structure.

185. Structures under subclass 183, in which the card or sheet carrying components are each movable to an unhoused or accessible position, wherein there is coaction between housing structure and components whereby the retainers hold the sheets only when the component is housed.

186. Structures under subclass 185, the article supports comprising cylindrical drums or containers rotatable about a horizontal axis having peripheral card or sheet carrying compartments and provided with retaining elements for securing the cards or sheets in the compartments when the compartments are in any but the uppermost position.

187. Structures under subclass 185, the housing carrying a sheet retainer for each component.

188. Structures under subclass 183, the components having closures which are particularly shaped to coact with the card or sheets to retain them when the closure is in the closed position.

189. Structures under subclass 183, the cards or sheets being strung or impaled upon the securing means.

190. Structures under subclass 183, in which the securing means are spring urged to retaining position.

191. Structures under subclass 190, in which the sheet supports are relatively movably supported in a face to back relationship.

192. Structures under subclass 190, in which each of the card or sheet supports are swingable about a vertical axis from a housed position to a position of access.

193. Structures under subclass 183, in which the securing means comprise fixed, non-gripping elements.

234.1. Devices under subclass 234, in which the indicators are means to identify the contents of one or more components.

Search Class—

129—PAPER FILES AND BINDERS, subclass 15+, for article supports per se, of the card or sheet holder type, with indexes.

234.2. Devices under subclass 234.1, in which the indicators comprise labels on components or compartments together with a list associated with the structure and relating to the subject matter of the material in the labeled compartments.

234.3. Devices under subclass 234.2, in which the list is mounted on a component closure.

234.4. Devices under subclass 234.1, in which the indicators comprise labels on stationary elements of the structure, usually of the "pigeonhole type", to identify the contents of adjacent sheet holding components.

234.5. Devices under subclass 234.1, in which the indicators are on components movable from a housed to an access position.

312, Electric Lamp and Discharge Devices

in subclass 15, in "(1) Note", cancel the period, and add:

or where the heating means is a means for heating a gas or vapor generating material (e. g., a getter). See subclass 180, for the discharge devices and lamps with electric heating means for a gas or vapor generating material.

316, Electric Lamp and Discharge Devices, Manufacture and Repair

in subclass 27, under "Search Class", cancel "91, Coating", and substitute:

118—COATING APPARATUS, see (2) Note above.

M. C. ROSA,
Executive Examiner.

Classification Order No. 121

The following transfers are hereby ordered to take effect Monday, March 3, 1952.

From Division 10 to Division 51
- Class 84, Music
- Class 171, Electricity, Generation, subclass 327
- Class 250, Radiant Energy, subclasses 14, 16, 21 to 32, inclusive, 39, and 40
- Class 332, Modulators

From Division 10 to Division 70
- Class 250, Radiant Energy, subclasses 36 and 37

From Division 29 to Division 10
- Class 150, Cloth, Leather and Rubber Receptacles
- Class 190, Baggage

From Division 42 to Division 70
- Class 177, Electric Signaling, subclasses 385 and 386

From Division 58 to Division 10
- Class 215, Bottles and Jars

From Division 40 to Division 10
- Class 229, Paper Receptacles

From Division 51 to Division 70
- Class 343, Communications, Radiant Energy, subclasses 5 to 18, inclusive, and 100 to 124, inclusive

M. C. ROSA,
Executive Examiner.

Classification Order No. 122

March 3, 1952

The following changes in the classification of inventions are hereby directed to take effect immediately:

IN THE MANUAL OF CLASSIFICATION:

ESTABLISH SUBCLASSES

in *Class 177, Electric Signaling* (Division 70)

(H. MARANS, *Classifier*)

	Systems
352.52	Altimeters
352.6	Object detection, distance and/or direction

CHANGES IN CLASSES ARRANGED BY DIVISIONS

under Division 10, cancel all references and substitute:

150	**Cloth, Leather and Rubber Receptacles**
190	**Baggage**
215	**Bottles and Jars**
229	**Paper Receptacles**

under Division 29, cancel:

150	**Cloth, Leather and Rubber Receptacles**
190	**Baggage**

under Division 40, cancel:

229	**Paper Receptacles**

under Division 42, under "177, Electric Signaling," insert:

All subs. except 352.52, 352.6, 385, 386

under Division 51, cancel all references and substitute:

84	**Music**
171	**Electricity, Generation**
	Subclass 327
	(See Divs. 26, 69 for other subs.)
250	**Radiant Energy**
	Subs. 1 thru 33.69, 39, 40
	(See Divs. 54, 70 for all other subs.)
332	**Modulators**
343	**Communications, Radiant Energy**
	All subs. except 5 thru 18, 100 thru 124
	(See Div. 70 for other subs.)

under Division 58, cancel:

215	**Bottles and Jars**

under Division 70, insert:

177	**Electric Signaling**
	Subs. 352.52, 352.6, 385, 386
	(See Div. 42 for other subs.)
343	**Communications, Radiant Energy**
	Subs. 5 thru 18, 100 thru 124
	(See Div. 51 for other subs.)

and cancel the reference to "250, Radiant Energy," and substitute:

250	**Radiant Energy**
	Subs. 36, 37, 41.9
	(See Divs. 51, 54 for other subs.)

CHANGES IN CLASSES ARRANGED IN ALPHABETICAL ORDER

after 190, Baggage, change the Division from "29" to *10*.

after 215, Bottles and Jars, change the Division from "58" to *10*.

after 150, Cloth, Leather and Rubber Receptacles, change the Division from "29" to *10*.

under 343, Communications, Radiant Energy, insert:

Subs. 5 thru 18, 100 thru 124	70
All other subs	51

under 177, Electric Signaling, insert:

Subs. 352.52, 352.6, 385, 386	70
All other subs	42

under 171, Electricity, Generation, after sub. 327, change the Division from "10" to *51*.

after 332, Modulators, change the Division from "10" to *51*.

after 84, Music, change the Division from "10" to *51*.

after 229, Paper Receptacles, change the Division from "40" to *10*.

cancel the reference to "250, Radiant Energy," and substitute:

250 **Radiant Energy**	
Subs. 1 thru 33.69, 39, 40	51
Subs. 36, 37, 41.9	70
Subs. 42 thru 239	54

CHANGES IN CLASSES ARRANGED IN NUMERICAL ORDER

after 84, Music, change the Division from "10" to *51*.

after 150, Cloth, Leather and Rubber Receptacles, change the Division from "29" to *10*.

after 171, Electricity, Generation, after Sub. 327, change the Division from "10" to *51*.

under 177, Electric Signaling, insert:

Sub. 352.52, 352.6, 385, 386	70
All other subs	42

after 190, Baggage, change the Division from "29" to *10*.

after 215, Bottles and Jars, change the Division from "58" to *10*.

after 229, Paper Receptacles, change the Division from "40" to *10*.

under 250, Radiant Energy, cancel all references and substitute:

Subs. 1 thru 33.69, 39, 40	51
Subs. 36, 37, 41.9	70
Subs. 42 thru 239	54

after 332, Modulators, change the Division from "10" to *51*.

under 343, Communications, Radiant Energy, insert:

Subs. 5 thru 18, 100 thru 124	70
All other subs	51

PRINCIPAL SOURCES OF PATENTS IN ESTABLISHED SUBCLASSES

Established		Source	
Class	*Subclass*	*Class*	*Subclass*
177	352.52	177	352
177	352.6	177	352

M. C. ROSA,
Executive Examiner.

Classification Order No. 123

The following transfer is hereby directed to take effect on Monday, March 17, 1952:

Class 262, Mining, Quarrying and Ice Harvesting, from Division 4 to Division 47.

M. C. ROSA,
Mar. 11, 1952. *Executive Examiner.*

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,562,775. Fruit and Nut Harvester. Patented July 31, 1951. Motor-operated wheeled harvester may be used to gather and clean a crop of figs, walnuts, plums, and similar fruit after it has been shaken from trees, and to deposit the cleaned crop in suitable containers. Pick-up and gathering mechanism adjustably suspended at the front end of the harvester may be hydraulically raised and lowered. Rotary brooms for sweeping the fruit along the slatted bottom of a trough of the gathering mechanism coact with rotary fan blowers to separate and remove leaves, twigs, dust, and other debris from the fruit. The cleaned fruit is then conveyed into a delivery hopper, and, as it cascades through the hopper, it is subjected to blasts of air from a blower to remove any remaining dust before being deposited in containers. (Owner) Orville Cru'l, Darlington, Ind. Group 35—22. Reg. No. 46,899.

Pat. 2,566,673. Combination Screw Driver and Wrench With Screw Head and Nut Gripping Means. Patented Sept. 4, 1951. Convertible hand tool is provided with interchangeable sockets so that it may be used as a screw driver or wrench for operation on screws having slotted and non-slotted heads of various shapes, and nuts of various shapes. A socket for a particular threaded element is selected and releasably clamped to the lower end of a main sleeve in which the shank of a conventional screw driver is slidably and resiliently mounted. A locking sleeve having spring fingers may be slid forwardly on the main sleeve and turned slightly so that the fingers will enter slots in the sides of the socket to retain a screw or nut in the socket. Bit of screw driver may be projected into certain types of sockets to engage and turn a slotted-head screw, or into a slot in other types of sockets to turn the sockets. (Owner) Christ Nygaard, Zumbrota, Minn. Groups 33—52; 40. Reg. No. 46,900.

Pat. 2,565,257. Baby Walker. Patented Aug. 21, 1951. A walking device, into or out of which a child may crawl without danger of tipping or of injury from sharp corners. The structure comprises an endless tubular body frame bent in U-shape. A lower horisontal U-shaped portion has four swivel rollers carried on the side runs of the U. From the open end are inwardly sloping risers which continue in a horizontal loop, parallel with but smaller than the lower U-portion, to partially encircle child's body and afford a gripping handle. A sheet metal side wall may extend between the horizontal portions. (Owner) Donald G. Nichol, 7410 S. W. Taylors Ferry Road, Portland 19, Oreg. Groups 25—14; 34—41; 39—43—81. Reg. No. 46,901.

The following five patents are owned by John R. Betts, 315 Ringland Road, Hastings, Nebr.

Pat. 2,226,892. Turbine Pump. Patented Dec. 31, 1940. Water-lubricated pump includes a well casing having spaced peripheral sleeve bearings secured to the inner side, and impellers seated for rotation in the bearings. Each impeller has an annular rim on which a rubber tire is mounted. Each tire is formed with diagonal grooves in its outer surface to force water upwardly between itself and its bearing during operation of the pump to lubricate the bearing. An anti-spinner disposed above each impeller is loosely mounted on the impeller shaft to deflect spinning currents of water in an upward direction. The blades of the anti-spinner have flexible extensions to engage projections on the interior of the casing to prevent rotation of the anti-spinner in any but one direction. Group 35—61. Reg. No. 46,902.

Pat 2,284,632. Centrifugal Pump. Patented June 2, 1942. Water-lubricated pump includes a well casing having spaced peripheral bearings secured to the inner side, and rotating impellers seated in the bearings for high speed operation. Each impeller comprises a cylindrical outer casing with blades secured to the inner side. An inverted hollow cone disposed above each impeller for rotation therewith functions as a water deflector during operation of the pump, and retains water when the pump is stopped. When the pump is started, the water in the cones is thrown outwardly by centrifugal force and drains down into and lubricates the bearings. Blades are secured to the interior of the well casing above and below each bearing, the radial width of the blades and bearings being such that the impellers may be slidably withdrawn or inserted into the well casing. Group 35—61. Reg. No. 46,903.

Pat. 2,299,734. Variable Capacity Pump. Patented Oct. 27, 1942. Water-lubricated pump, adapted for windmill operation, has pistons of relatively large diameter to provide large capacity, such as is required for irrigation or wherever a large volume of water is necessary. Each piston comprises an automobile wheel and tire, with check valves in the wheel to admit water above the piston, and a conduit connected to the tire for inflating and deflating purposes. One wheel and tire is used as a foot valve in combination with a suction pipe. The pump includes a loading system controlled by a manual valve for loading the pump in accordance with the velocity of the wind so that the pump may be operated at full capacity during strong winds without racing and tearing itself to pieces, and at reduced capacity when the wind is extremely light. Group 35—61. Reg. No. 46,904.

Pat. 2,369,939. Well Construction. Patented Feb. 20, 1945. Foot valve and suction pipe assembly for use with pumps of large capacity, such as are required for irrigation, may be readily lowered into and removed from a well at any time. The lower end of a well casing has a ring (rectangular in cross-section) secured inside the lower end with a gasket of similar inverted shape to seat on the ring. A closure plate secured to the top of a suction pipe carries check valves and extends beyond the periphery of the pipe. When the pipe is lowered through the ring, the flange of the closure plate rests on the flat upper surface of the gasket with the outer inclined periphery of the gasket seated on the inclined surface of the ring, and the inner periphery of the gasket surrounding the pipe. The weight of the valve and pipe assembly is sufficient to normally maintain the gasket seated on the ring. Group 35—61. Reg. No. 46,905.

Pat. 2,245,750. Well Boring Bucket and Method of Boring Wells. Patented June 17, 1941. Well-boring bucket comprises a casing open at the lower end and a boring auger to remove and force soil into the lower end of the casing. The lower end of the casing carries detachable peripherally arranged depending spikes to enter the soil in advance of the auger to prevent rotation of the casing. The upper portion of the auger shaft carries a series of weights. The auger may be rotated until it attains high speed while the bucket is out of the well, and the bucket is then lowered into the bottom of the well, the kinetic energy stored in the weights being utilized in boring the well either with or without additional motive power. Air under pressure may be forced into an upper compartment of the casing to pass into the lower compartment to force water accumulated during the boring operation out of the lower end of the casing. Group 35—31. Reg. No. 46,906.

Pat. 2,560,393. Aerauto Parking System. Patented July 10, 1951. A ventilated multi-story motor vehicle parking building with elevator has crossed landing strips on roof for landing and parking helicopters or autogiros. The structure is circular with windows and recessed at the front to form diverging flat facades with a ticket office and entrance and exit on either side. A series of ramps side by side on the ground floor curve to follow the walls of the building and climb to their respective floors. A similar series of ramps on opposite side of building are provided for the removal of the vehicles. (Owner) Ralph Mauriell, Sr., Little Silver, N. J. Groups 35—62; 38—31. Reg. No. 46,907.

General Electric Company offers the following patents for non-exclusive licensing on reasonable terms, to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The majority of the following 49 patents relate to electric valve circuits and electric valve control circuits. Also included are patents relating to: Mechanical relays of the fluid jet type; a position-indicating device for continuous measurement of the width of a moving strip such, for example, as a hot strip of steel which is being reduced in a rolling mill; and a flash control system for producing an illuminating flash, the photographically effective duration of which is a fraction of a microsecond, for use when making shadowgraph photographs of objects and gases moving at a speed in excess of speed of sound. Groups 36—13—19; 39—12. Reg. Nos. 46,908 through 46,956.

Pat. 2,057,585. Electric Translating Circuit. Oct. 13, 1936.

Pat. 2,078,152. Phase Shifting Circuit. Apr. 20, 1937.

Pat. 2,081,780. Electric Control Circuits. May 25, 1937.

Pat. 2,085,595. Electric Valve Translating System. June 29, 1937.

Pat. 2,122,304. Control System for Electric Valve Apparatus. June 28, 1938.

Pat. 2,174,386. Control System. Sept. 26, 1939.

Pat. 2,190,523. Electric Valve Converting System. Feb. 13, 1940.

Pat. 2,195,116. Electric Valve System. Mar. 26, 1940.

Pat. 2,195,119. Electric Control System. Mar. 26, 1940.

Pat. 2,195,120. Electric Control System. Mar. 26, 1940.

Pat. 2,196,811. Electric Valve Circuit. Apr. 9, 1940.

Pat. 2,203,527. Electric Control System. June 4, 1940.

Pat. 2,213,882. Electrical Control System. Sept. 3, 1940.

Pat. 2,217,443. Electric Valve Circuits. Oct. 8, 1940.

Pat. 2,219,924. Electric Valve Circuit. Oct. 29, 1940.

Pat. 2,221,517. Electric Valve Circuits. Nov. 12, 1940.

Pat. 2,224,602. Electric Valve Control Circuit. Dec. 10, 1940.

Pat. 2,228,843. Electric Valve Circuit. Jan. 14, 1941.

Pat. 2,228,844. Electric Valve Circuits. Jan. 14, 1941.

Pat. 2,229,449. Phase Shifting Circuit. Jan. 21, 1941.

Pat. 2,229,450. Phase Shifting Circuit. Jan. 21, 1941.

Pat, 2,237,015. Electric Control System. Apr. 1, 1941.

Pat. 2,238,623. Control System. Apr. 15, 1941.

Pat. 2,245,869. Electric Valve Translating System. June 17, 1941.

Pat. 2,259,119. Electric Valve Control System. Oct. 14, 1941.

Pat. 2,260,046. Electric Valve System for Dynamo-electric Machines. Oct. 21, 1941.

Pat. 2,264,068. Control System. Nov. 25, 1941.

Pat. 2,273,586. Electric Valve Circuits. Feb. 17, 1942.

Pat. 2,274,369. Electrical Control System. Feb. 24, 1942.

Pat. 2,276,810. Electric Valve Control System. Mar. 17, 1942.

Pat. 2,321,386. Position Indicating Device. June 8, 1943.

Pat. 2,324,314. Electronic Switch. July 13, 1943.

Pat. 2,331,123. Electric Motor Control System. Oct. 5, 1943.

Pat. 2,333,446. Current Responsive Circuit. Nov. 2, 1943.

Pat. 2,335,874. Electric Frequency Changing System. Dec. 7, 1943.

Pat. 2,348,016. Counter Circuit. May 2, 1944.

Pat. 2,351,439. Electric Valve Oscillator. June 13, 1944.

Pat. 2,366,537. Electric Control Circuit. Jan. 2, 1945.

Pat. 2,368,477. Electric Time Delay Relay. Jan. 30, 1945.

Pat. 2,372,964. Electric Valve Control System. Apr. 3, 1945.

Pat. 2,387,601. Electric Control System. Oct. 23, 1945.

Pat. 2,393,701. Electric Control Systems. Jan. 29, 1946.

Pat. 2,397,448. Mechanical Relay of the Fluid Jet Type. Mar. 26, 1946.

Pat. 2,408,603. Mechanical Relay of the Fluid Jet Type. Oct. 1, 1946.

Pat. 2,408,705. Mechanical Relay of the Fluid Jet Type. Oct. 1, 1946.

Pat. 2,421,991. Electric Control Circuit. June 10, 1947.

Pat. 2,442,189. Flash Control System. May 25, 1948.

Pat. 2,469,860. Control Device. May 10, 1949.

Pat. 2,484,575. Phase Controlled Switching System. Oct. 11, 1949.

THE FOLLOWING 14 PATENTS RELATE TO: Circuit breakers, conductors, and electrical insulating compounds.

Pat. 2,099,585. Circuit Breaker. Nov. 16, 1937. Group 36—19. Reg. No. 46,957.

Pat. 2,105,363. Synthetic Compound and Method for Its Production. Jan. 11, 1938. Groups 28—83; 36—11. Reg. No. 46,958.

Pat. 2,105,364. Resinous Thermoplastic Materials. Jan. 11, 1938. Groups 28—83; 36—11. Reg. No. 46,959.

Pat. 2,119,400. Insulating Bond for Electrical Machines and Apparatus. May 31, 1938. Groups 28—34; 36—11. Reg. No. 46,960.

Pat. 2,169,860. Guard Means for Electric Switches. Aug. 15, 1939. Group 36—19. Reg. No. 46,961.

Pat. 2,184,372. Circuit Breaker. Dec. 26, 1939. Group 36—19. Reg. No. 46,962.

Pat. 2,209,928. Electrically Insulating Composition. July 30, 1940. Group 28—83. Reg. No. 46,963.

Pat. 2,211,608. Polychloroprene Electrical Insulation. Aug. 13, 1940. Groups 28—34—83; 36—11. Reg. No. 46,964.

Pat. 2,233,187. Circuit Breaker. Feb. 25, 1941. Group 36—19. Reg. No. 46,965.

Pat. 2,249,498. Coating Composition. July 15, 1941. Group 36—12. Reg. No. 46,966.

Pat. 2,253,967. Insulated Electrical Conductor. Aug. 26, 1941. Group 36—11. Reg. No. 46,967.

Pat. 2,259,141. Synthetic Rubberlike Resinous Compositions. Oct. 14, 1941. Group 28—83. Reg. No. 46,968.

Pat. 2,422,508. Circuit Breaker. June 17, 1947. Group 36—19. Reg. No. 46,969.

Pat. 2,524,536. Insulated Electrical Conductor. Oct. 3, 1950. Group 36—11. Reg. No. 46,970.

THE FOLLOWING 7 PATENTS RELATE TO: A pressing machine; a workshop unit for home or factory use for cutting, shaping, and finishing wood, metal, and the like; a clothes wringer; a washing machine; a bridge lamp; a device for indicating the position of an aircraft with respect to a tow rope; and a safety valve for pressure cookers.

Pat. 2,037,550. Ironing Machine. Apr. 14, 1936. Group 35—81—82. Reg. No. 46,971.

Pat. 2,071,201. Workshop Unit. Feb. 16, 1937. Group 35—41. Reg. No. 46,972.

Pat. 2,211,599. Clothes Wringer. Aug. 13, 1940. Group 35—81. Reg. No. 46,973.

Pat. 2,247,771. Bridge Lamp and a Diffusing Bowl Therefor. July 1, 1941. Group 34—81. Reg. No. 46,974.

Pat. 2,451,244. Glider Tow Indicator. Oct. 12, 1948. Group 39—11. Reg. No. 46,975.

Pat. 2,554,229. Spin Basket and Casing for Clothes-Washing Machines. May 22, 1951. Group 35—81. Reg. No. 46,976.

Pat. 2,563,563. Combined Air Vent and Pressure Release Valve. Aug. 7, 1951. Groups 33—66—69; 34—99. Reg. No. 46,977.

LICENSES IN THE FIELD OF RADIO PURPOSES WILL BE GRANTED UNDER THE FOLLOWING TWO PATENTS:

Pat. 2,569,296. Frequency Converter With Plural Selectable Oscillators. Sept. 25, 1951. Group 36—61. Reg. No. 46,978.

Pat. 2,569,345. Transistor Multivibrator Circuit. Sept. 25, 1951. Group 36—61. Reg. No. 46,979.

TRADE-MARKS

[VOL. 657. NO. 1]

OFFICIAL GAZETTE, APRIL 1, 1952

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 39

CLOTHING

Ser. No. 507,994. Merrimac Hat Corporation, Amesbury, Mass. Filed Aug. 24, 1946. Under 10-year proviso as to "Merrimac."



Applicant owns Trade-Mark Registrations Nos. 421,014 and 346,919. The word "Superior" is disclaimed. The lining on the drawing represents part of the mark.

For Men's, Women's, and Children's Hats and Hat Bodies.

Claims use since 1856 as to "Merrimac"; and since Sept. 1, 1943, as to the mark shown.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 594,051. John M. Lee, doing business as Green Valley Coal Co., Ligonier, Pa. Filed Mar. 16, 1950.



The drawing has not been lined for green but applicant claims use of the color green for its entire mark.

For Coal.

Claims use since Nov. 3, 1948.

Ser. No. 602,871. A. R. D. Corporation, New York, N. Y. Filed Aug. 29, 1950.



For Plastic Compositions for Use in Making Patterns for Castings, and Investment Compositions for Use in Making Molds for Castings.

Claims use since Feb. 8, 1949.

Ser. No. 616,803. Will Ross, Inc., Milwaukee, Wis. Filed July 23, 1951.

AREN

For Plastic Sheeting for Hospital Beds.

Claims use since June 15, 1951.

Ser. No. 616,887. The White Feather Hatchery Incorporated, Fairmont, Minn. Filed July 24, 1951.

VeeLINE

For Live Baby Chicks.
Claims use since December 1949.

CLASS 2

RECEPTACLES

Ser. No. 586,342. Butler Manufacturing Company, Kansas City, Mo. Filed Oct. 15, 1949. (Sec. 2f.)

BUTLER

Applicant claims ownership of Registrations Nos. 383,273 and 319,608.
For Metal Bins and Tanks for the Storage of Grain, Ventilated Metal Tanks for Drying of Grain, Metal Silos and Corn Cribs, Stationary and Portable Metal Tanks for Liquids, Metal Barrels and Drums.
Claims use since May 1, 1930.

Ser. No. 601,286. Benjamin Stiller, doing business as Quikey Manufacturing Co., Akron, Ohio. Filed July 26, 1950.

LITTLE OCTOPUS

For Soap Holder of Rubberlike Material, Adapted for Attachment to Surfaces by Simple Contact.
Claims use since Mar. 28, 1950.

Ser. No. 614,591. Washington Steel Products, Inc., Tacoma, Wash. Filed May 31, 1951. (Sec. 2f.)

WASHINGTON

For Vegetable Storage Bins, Fruit and Vegetable Storage Bins, Fruit Storage Bins, and Multiple Unit Fruit and Vegetable Storage Bins.
Claims use since 1935.

Ser. No. 615,312. George A. Gazan, Jr., doing business under the assumed name of French Manufacturing and Advertising Co., Ferndale, Mich. Filed June 18, 1951.

CRED-A-CASE

The word "Case" is disclaimed.
For Plastic Cases for Identification Plates.
Claims use since Oct. 1, 1949.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 574,654. Simonds Worden White Company, doing business as Safety Grinding Wheel & Machine Co., Dayton, Ohio. Filed Feb. 28, 1949. (Sec. 2f.)

SAFETY

No claim is made to the representation of the goods.
For Abrasive Grinding Wheels for Use in Connection With Machine and Hand-Operated Grinders.
Claims use since 1910.

Ser. No. 592,613. Continental Chemical Corporation, Washington, D. C. Filed Feb. 17, 1950.

DURAX
all purpose
LIQUID WAX
containing amazing
SOLUENE

The words "All Purpose Liquid Wax Containing Amazing" are disclaimed.
For Liquid Wax for Cleaning, Polishing, and Protecting Finished Surfaces of Automobiles, Furniture, and the Like.
Claims use since Feb. 11, 1950.

Ser. No. 592,731. R. S. Bolling, doing business under the fictitious name and style of National Silicone Products Co., Los Angeles, Calif. Filed Feb. 20, 1950.

Silicote

For Polishing Preparation for Polishing Metal and Painted Surfaces of Automobiles and the Like.
Claims use since Nov. 5, 1949.

Ser. No. 594,238. White Cat Products Co., San Francisco, Calif. Filed Mar. 18, 1950.



For Shoe Polish, Shoe Polishing Cream, Burnishing Ink, and Burnishing Wax for Leather Goods.
Claims use since Jan. 15, 1927.

Ser. No. 607,022. Hollywood Shoe Polish Inc., Richmond Hill, N. Y. Filed Nov. 28, 1950.

"IRONIZE"

For Shoe Polish.
Claims use since Sept. 11, 1950.

Ser. No. 611,827. The Carborundum Company, Niagara Falls, N. Y. Filed Mar. 27, 1951. (Sec. 2f.)

NIAGARA

For Abrasive Grains, Sheet Material Coated With Abrasive Grains, Abrasive Wheels, and Abrasive Stones.
Claims use since November 1923.

Ser. No. 617,203. C. A. Nash & Son, Inc., Norfolk, Va. Filed Aug. 1, 1951. (Sec. 2f.)

A *BILLIARD BALL* FINISH

The word "Finish" is disclaimed. Applicant claims ownership of Registration No. 429,728.
For Liquid and Paste Wax for Use on Floors, Furniture, and Linoleum.
Claims use since December 1945.

CLASS 5

ADHESIVES

Ser. No. 600,999. Van Cleef Bros., Inc., Chicago, Ill. Filed July 20, 1950.

FRISK-O

For Adhesive Cement for Mounting Photographs, Clippings, Prints, Artwork, Papers, and Other Lightweight Materials.
Claims use since 1919.

Ser. No. 601,003. Van Cleef Bros., Inc., Chicago, Ill. Filed July 20, 1950.

TECHNI-TAPE

The word "Tape" is disclaimed.
For Adhesive Tape for Packaging, Protecting, and Sealing, and for General Use.
Claims use since January 1933.

Ser. No. 607,423. Roy J. Fisher, doing business as Fisher Manufacturing Company, Rochester, N. Y. Filed Dec. 8, 1950.

ETHYLOID

For Film Cement Scientifically Prepared for Splicing All Kinds of Photographic Films.
Claims use since Mar. 11, 1946.

Ser. No. 608,882. The National Cash Register Company, Dayton, Ohio. Filed Jan. 17, 1951.

National

Applicant claims ownership of Registrations Nos. 392,498 and 397,059.
For Cement for Porous Rubber Marking Stamps.
Claims use since Apr. 18, 1950.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 520,416. Pyroxylin Products, Inc., Chicago, Ill. Original filed, act of 1905, Apr. 9, 1947; amended to application under act of 1946, Principal Register, Aug. 3, 1950. (Sec. 2f.)

PROXMELT

Applicant claims ownership of Registrations Nos. 335,349 and 439,713.
For Mixtures of Two or More of the Following Chemicals or Chemical Compositions; Paraffin Wax; Polyisobutylene; Copolymers of Isobutylene and Isoprene; Cyclicized Rubber Resin of the Cresol Catalyst Type, and of the Cresol Tin Catalyst Type; Ethyl Cellulose; Acetal Resins; Polyamid Resins; Hydrogenated Castor Oil; Hydrogenated Peanut Oil; Hydrogenated Soya Bean Oil; Phenol Hardened Glycerol Esters of Rosin; Maleic Hardened Glycerol Esters of Rosin; Heavy-Metal Soaps of Rosin; Glycerol Esters of Polymerized Rosin; Glycol Esters of Polymerized Rosin; Heavy-Metal Soaps of Polymerized Rosin; Coumarone Indene Resins; Dibutyl Phthalate; Diamyl Phthalate; Dioctyl Phthalate; Tributyl Citrate; Castor Oil; Soya Bean Oil; Stearic Acid; Palmitic Acid.
Claims use since Dec. 15, 1940.

Ser. No. 559,338. Sears, Roebuck and Co., Chicago, Ill. Filed June 16, 1948. (Classified in Class 51.) (Sec. 2f—Additional evidence.)
The word "Approved" is disclaimed. Applicant claims ownership of Registrations Nos. 279,844, 306,826, and 417,390.
See this serial number in Class 51 for goods and mark.
Claims use since Dec. 9, 1929.

Ser. No. 584,134. Kay-Fries Chemicals, Inc., West Haverstraw, N. Y. Filed Aug. 27, 1949. (Sec. 2f as to "Kay-Fries.")

KAY FRIES

"Chemicals, Inc." is disclaimed.
For Chemicals for General Use in the Industrial Arts—Namely, Aromatic Chemicals; Chemicals and Chemical Intermediates — Namely, Alcohols, Ketones, Aldehydes, Esters, Amides, Barbiturates, Othro Esters, Nitriles, and Acids Used as Basic Materials in the Manufacture of Lacquers, Synthetic Resins and Plastics, Drugs, Pharmaceuticals, Fluxes, Paper, Rubber, Textiles, Disinfectants, Insecticides, and Fumigants.
Claims use since Jan. 5, 1931.

Ser. No. 397,179. Union Carbide and Carbon Corporation, New York, N. Y. Filed May 9, 1950.

"KETOSOL"

For Chemical Compositions Containing Predominantly Alcohols and Ketones for General Use in the Industrial Arts as Solvents, Solvent Media, Intermediates, Odorants, and Bleaching Agents, and in the Production of Dyes, Dyestuffs, Inks, Resins, Plastics, Surface Coatings, Lubricating Oils, Pharmaceuticals, Lachrymators, Soaps, Cosmetics, Perfumery Products, and Other Articles.
Claims use since July 11, 1949.

Ser. No. 598,595. Pabst Brewing Company, Chicago, Ill. Filed June 5, 1950.

SIZEOUT

For Desizing Agent for the Removal of Protein Base Sizes.
Claims use since May 11, 1950.

Ser. No. 605,395. Alrose Chemical Company, Cranston, R. I. Filed Oct. 25, 1950. (Classified in Class 52.)
Applicant claims ownership of Registrations Nos. 378,512, 378,513, and others.
See this serial number in Class 52 for goods and mark.
Claims use since Feb. 16, 1946.

Ser. No. 606,159. Monsanto Chemical Company, St. Louis, Mo. Filed Nov. 9, 1950.

GRALON

For Chemicals Used in Treating Textiles To Improve or Modify the Characteristics Including the Softening Thereof.
Claims use since Apr. 12, 1950.

Ser. No. 606,274. A. J. Clancy, Oakland, Calif. Filed Nov. 13, 1950.

STOK-N-LAST

For Chemical Preparations—Namely, Mixtures and Solutions of Chemical Products Used in Treating Fabrics, Knitted Textiles and the Like To Inhibit Slippage Between Threads Thereof.
Claims use since July 24, 1950.

Ser. No. 606,586. Wyandotte Chemicals Corporation, Wyandotte, Mich. Filed Nov. 17, 1950. (Sec. 2f.)

PACIFIC PRONTO

Applicant claims ownership of Registrations Nos. 145,003 and 438,818.
For Insecticides.
Claims use since July 19, 1921.

Ser. No. 607,448. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Filed Dec. 8, 1950.

FOSBOND

Applicant claims ownership of Registration No. 532,238.
For Chemical Substances Used To Treat Metals for Chemical Modification of the Metal Surfaces, Either Preparatory to Painting, or To Increase Corrosion Resistance, or Preparatory to Stamping, Drawing, Extruding, or Other Forming or Deforming Operations, or To Make the Surfaces More Receptive to Coating Materials or Lubricants.
Claims use since Apr. 3, 1950.

Ser. No. 607,629. Heyden Chemical Corporation, New York, N. Y. Filed Dec. 13, 1950.

BUTASOL

For Solutions of Formaldehyde and Butyl Alcohol.
Claims use since Feb. 7, 1940.

Ser. No. 609,186. Naphtol-Chemie Offenbach, Offenbach on the Main, Germany. Filed Jan. 24, 1951.

For Dyes, Dyestuffs, Dyestuff Intermediates, Photographic Chemicals, Preservatives for Wood, Rust Inhibitors, Tanning Agents, Weed Killers, Insecticides, and Pesticides.
Claims use since June 15, 1949.

Ser. No. 610,192. Specialty Resins Company, Lynwood, Calif. Filed Feb. 16, 1951.

The chemical symbols are disclaimed.
For Synthetic Resins for All Purposes.
Claims use since Sept. 1, 1950.

Ser. No. 610,404. Atlas Powder Company, Wilmington, Del. Filed Feb. 23, 1951.

DARCO

Applicant claims ownership of Registrations Nos. 126,469 and 369,698.
For Decolorizing-Carbon for Use in Decolorizing and Clarifying Materials.
Claims use since Nov. 15, 1918.

Ser. No. 610,405. Atlas Powder Company, Wilmington, Del. Filed Feb. 23, 1951.

DARCO

Applicant claims ownership of Registrations Nos. 126,469 and 369,698.
For Decolorizing-Carbon for Use in Decolorizing and Clarifying Materials.
Claims use since Nov. 15, 1918.

Ser. No. 610,630. Philadelphia Quartz Company of California, Berkeley, Calif. Filed Feb. 28, 1951.

Calquartz

For Silicate of Soda and Silicate of Potash in Liquid and Solid Form.
Claims use since Jan. 5, 1950.

Ser. No. 611,133. Huron Milling Company, Harbor Beach, Mich. Filed Mar. 10, 1951.

VELVET
RAINBOW

For Laundry Starch.
Claims use since July 14, 1919.

Ser. No. 611,134. Huron Milling Company, Harbor Beach, Mich. Filed Mar. 10, 1951.

VELVET WHEAT

The word "Wheat" is disclaimed.
For Laundry Starch.
Claims use since Sept. 8, 1914.

Ser. No. 615,791. The Pennzoil Company, Oil City, Pa. Filed June 27, 1951.

REEZOIL

For High Molecular Weight Hydrocarbon Extracted From Mineral Oil Residuum for General Use in the Manufacture of Motor Lubricating Oils, Lubricating Oils for Industrial Use, Gear Lubricants, Lubricating and Other Greases, Adhesives, Plasticizers, Water-Proofing Compounds, Extenders for Paints, and Paper Coatings.
Claims use since May 16, 1951.

Ser. No. 617,241. Fritzsche Brothers, Inc., New York, N. Y. Filed Aug. 2, 1951.

ALDAROME

For Aromatic Masking Agents for Masking Odors of Formaldehyde, in Manufacturing Processes Involving the Use of Formaldehyde, and in Products Made Therefrom—Namely, Embalming Fluids, Room Odorants, Fungicides, Deodorants, Sterilizing Solutions, Plastics, Disinfectants, and Fixing Fluids in Histological Studies.
Claims use since Nov. 18, 1937.

Ser. No. 617,622. Metropolitan Refining Co., Inc., New York and Long Island City, N. Y. Filed Aug. 13, 1951.

CORRODINE

Applicant claims ownership of Registration No. 342,993.
For Chemical Compound for Prevention of Corrosion in Steam and Return Condensate Lines.
Claims use since 1940.

Ser. No. 617,623. Metropolitan Refining Co., Inc., New York and Long Island City, N. Y. Filed Aug. 13, 1951.

SCHLISSELITE

For Chemical Compound for Prevention of Corrosion, Scale, Fungus in Condensers and Cooling Towers of Air Conditioners, and in Brine Utilizing Equipment.
Claims use since 1935.

Ser. No. 617,625. Permacrease Corporation, New York, N. Y. Filed Aug. 13, 1951.

PERMACREASE

For Chemical Composition Used for Forming Permanent Creases and Folds in Clothing and Fabrics, Consisting Entirely or Predominantly of Wool, and for the Imparting of Other Permanent Shapes to Such Materials.
Claims use since January 1951.

Ser. No. 617,950. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed Aug. 22, 1951.

CAPRACYL

For Dyestuffs.
Claims use since June 28, 1951.

Ser. No. 618,188. Rezolin, Inc., Los Angeles, Calif. Filed July 23, 1951.

CORFOAM

For Synthetic Resins, Foaming Agents and Accelerators.
Claims use since June 6, 1951.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 585,617. Walter Wilson, Pasadena, Calif. Filed Sept. 30, 1949.

Hawaiian Fantasy

The word "Hawaiian" is disclaimed.
For Cigarette Boxes and Cigarette Trays.
Claims use since Sept. 6, 1949.

Ser. No. 590,361. Eric A. Freydberg, doing business as United States Flint Packers, New York, N. Y. Filed Jan. 5, 1950.

LUCKY CLOVER

For Flints for Lighters.
Claims use since Jan. 3, 1950.

CLASS 9

EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES

Ser. No. 617,249. Harris Machine Company, Rivera, Calif. Filed Aug. 2, 1951.

SIERRA

For Rifle Bullets, Rifle Bullet Jackets, Gas Checks for Lead Rifle Bullets, and Rifle Front Sight Ramps.
Claims use since Jan. 31, 1946.

CLASS 10

FERTILIZERS

Ser. No. 602,736. Jesse Elson, Farm School, Pa. Filed Aug. 25, 1950.

SOIL-ITE

The word "Soil" is disclaimed.
For Soil Conditioner.
Claims use since Aug. 15, 1950.

Ser. No. 613,011. Coahoma Chemical Co., Inc., Clarksdale, Miss., and Beacon, N. Y. Filed June 11, 1951.

RED PANTHER

For Fertilizers and Soil Treatment Preparations.
Claims use since Mar. 1, 1950.

Ser. No. 618,279. Atkins & Durbrow, Inc., New York, N. Y. Filed Aug. 31, 1951.



The trade-mark consists in a novel monogrammatic device featuring the applicant's initials. Applicant claims ownership of Registration No. 199,136.
For Fertilizers.
Claims use since May 19, 1951.

CLASS 11

INKS AND INKING MATERIALS

Ser. No. 601,411. Ansbacher-Siegle Corporation, New York and Rosebank, N. Y. Filed July 29, 1950.

GLOSTORIA

Applicant claims ownership of Registration No. 258,259.
For Colors and Pigments for Printing Inks.
Claims use since May 1, 1928.

Ser. No. 608,557. Frederick H. Mahler, New York, N. Y. Filed Jan. 9, 1951.

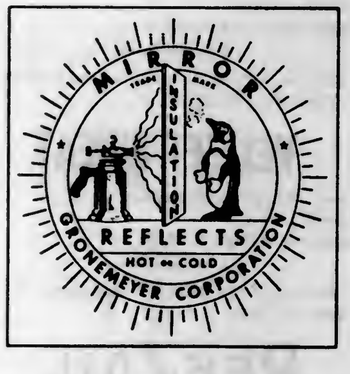
Indicator

For Carbon Paper.
Claims use since Nov. 26, 1947.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 573,877. Gronemeyer Corporation, Wilmington, Del. Filed Feb. 15, 1949.



The name "Gronemeyer Corporation," the words "Trade Mark" and "Insulation Reflects Hot or Cold," and the representation of the insulation board are disclaimed.
For Aluminum Covered Thermal Insulation.
Claims use since Feb. 10, 1949.

Ser. No. 578,090. Minnesota and Ontario Paper Company, Minneapolis, Minn. Filed May 2, 1949.

SYLVALITE

For Fiber Composition Board.
Claims use since Apr. 22, 1949.

Ser. No. 586,033. Manson-Smith Co., Inc., Richmond, Va. Filed Sept. 29, 1949.

Mansco SCREENS

The word "Screens" is disclaimed.
For Window Screens.
Claims use since June 1, 1949.

Ser. No. 597,563. W. Wadsworth Wood, Chicago, Ill., assignor to American Bildrok Company, Chicago, Ill. Filed May 29, 1950.

BILDROK

For Pre-Mixed Dry Plaster, the Principal Ingredients of Which Are Gypsum and Perlite; Pre-Mixed Concrete the Principal Ingredients of Which Are Portland Cement and Perlite; and Lightweight Insulating Aggregates for Concrete and Plaster—Namely, Bentonite and Magnesite.
Claims use since July 12, 1949.

Ser. No. 611,292. Metal Trims, Incorporated, Youngstown, Ohio. Filed Mar. 14, 1951. (Classified in Class 13.)
See this serial number in Class 13 for goods and mark.
Claims use since Aug. 15, 1939.

Ser. No. 615,376. Flex-O-Glass, Inc., Chicago, Ill. Filed June 19, 1951. (Sec. 2f.)

WARP'S

Applicant claims ownership of Registration No. 413,775.
For Laminated, Flexible, Metallic-Netting Reinforced Building Paper.
Claims use since November 1942.

Ser. No. 615,749. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa. Filed June 27, 1951.

VITROMAST

For Sewer Joint Compound Used in the Joining of Vitrified Clay or Concrete Sewer Pipe.
Claims use since Apr. 6, 1951.

Ser. No. 616,330. The National Plastic Products Company, Odenton, Md. Filed July 11, 1951.



The word "Color" is disclaimed.
For Thermoplastic Tiles.
Claims use since August 1947.

Ser. No. 616,434. The Mengel Company, Louisville, Ky. Filed July 13, 1951.



The words "Fancy Face Deluxe Plywood" are disclaimed.
For Plywood Panels.
Claims use since Sept. 24, 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 611,292. Metal Trims, Incorporated, Youngstown, Ohio. Filed Mar. 14, 1951.

"PREMIER"

For Metal Trims Comprising Extruded and Rolled Metal Mouldings for Cabinets and Counters, Edgings—Namely, Screw-On Type, Butt Type, Insert Type, and Reversible Edgings for Sinks, Floor Linoleum and Carpets, Tubing Sink Frames and Price Tag Mouldings.
Claims use since Aug. 15, 1939.

Ser. No. 619,884. Bernhard Kerk, trading as Het Gooische Schrijfmachinehuis & Handel Sonderneming "Beka," Hilversum, Netherlands. Filed Oct. 11, 1951.



RANGER

Applicant claims ownership of Dutch Registration No. 103,125, dated Nov. 12, 1949.
For Thumb Tacks.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 605,860. Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Filed Nov. 3, 1950.

HERCULITE

For Steel for Crushers, Crusher Heads, Tube-Mill Linings, Concaves, and Balls.
Claims use since December 1914.

CLASS 15

OILS AND GREASES

Ser. No. 600,194. Norman P. Schlott, doing business as Warren Oil Company, Omaha, Nebr. Filed July 3, 1950.

Multi-Lube

The word "Lube" is disclaimed.
For Lubricating Grease.
Claims use since November 1949.

Ser. No. 605,226. T. R. Parry & Company Limited, London, England. Filed Oct. 20, 1950.

COAXITE

Applicant claims ownership of British Registration No. B571,489, dated Sept. 10, 1936.
For Penetrating Lubricating Oil.

Ser. No. 610,238. The Standard Oil Company, Cleveland, Ohio. Filed Feb. 17, 1951.

SOHIO

The drawing is lined for red and blue. Applicant claims ownership of Registration No. 235,809.
For Products Derived From Petroleum—Namely, Lubricating Oils and Greases, Internal Combustion Engine Fuels, Fuels for Heating and Lighting, and Paraffin.
Claims use since Mar. 12, 1927.

Ser. No. 610,539. Bel-Ray Company, Inc., Madison, N. J. Filed Feb. 27, 1951.

MOLYLUBE

For Lubricating Compounds Comprising Molybdenum Disulfide Suspended in Vehicles of Selected Viscosity To Provide Compounds of Either Liquid or Paste Consistency.
Claims use since June 7, 1950.

Ser. No. 613,595. Midwest Oil Company, Minneapolis, Minn. Filed May 7, 1951. (Sec. 2f.)

WIL-FLO

Applicant claims ownership of Registration No. 229,327.
For Lubricating Oil and Grease.
Claims use since Jan. 15, 1926.

Ser. No. 614,608. The Atlantic Refining Company, Philadelphia, Pa. Filed June 1, 1951.

ATREDOL

Applicant claims ownership of Registration No. 333,464.
For Lubricating Oil.
Claims use since May 25, 1951.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 560,524. American Snuff Company, Memphis, Tenn. Filed July 1, 1948. (Sec. 2f—Additional evidence.)



For Snuff.
Claims use since 1905.

Ser. No. 560,525. American Snuff Company, Memphis, Tenn. Filed July 1, 1948. (Sec. 2f—Additional evidence.)



For Snuff.
Claims use since 1905.

Ser. No. 560,526. American Snuff Company, Memphis, Tenn. Filed July 1, 1948. (Sec. 2f—Additional evidence.)

PEACH

For Snuff.
Claims use since 1905.

Ser. No. 598,845. The Federal Cigar Company, Inc., Red Lion, Pa. Filed June 9, 1950.

SPANISH GRANDEE

The word "Spanish" is disclaimed.
For Cigars.
Claims use since Feb. 28, 1936.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 559,338. Sears, Roebuck and Co., Chicago, Ill. Filed June 16, 1948. (Classified in Class 51.) (Sec. 2f—Additional evidence.)

The word "Approved" is disclaimed. Applicant claims ownership of Registrations Nos. 279,844, 306,826, and 417,390.
See this serial number in Class 51 for goods and mark.
Claims use since Dec. 9, 1929.

Ser. No. 575,668. Porosan Plastics Limited, London, England, assignor to Polyestol Inc., New York, N. Y. Filed Mar. 18, 1949.

POLYESTOL

Applicant claims ownership of British Registration No. 643,447, dated Jan. 4, 1946.
For Medical and Surgical Dressings of Synthetic Resin Film Containing Medicament for the Alleviation of Pain and Treatment of Rheumatism and Kindred Ailments.

Ser. No. 578,105. Sherman Laboratories, Detroit, Mich. Filed May 2, 1949. (Sec. 2f.)

SHERMAN

For Bacterial Vaccines, Bacterial Antigens, Antivirus Ointments, Ointments for Treatment of Burns, Sunburn, and Hemorrhoids, Solutions for Subcutaneous Solutions for Intramuscular Injection, Solutions for Intravenous Injection, Polen Extracts for Diognosing and Treating Hay Fever and the Like; Medicinal Tablets and Medicinal Capsules, Antiacid Preparations, Demulcent Preparations, Preparations for Treating Gastro-Intestinal Disorders, Skin Test Preparations for Diagnosis of Pregnancy, and Water for Injection.
Claims use since 1907.

Ser. No. 581,730. Priority Mills, Inc., Minneapolis, Minn. Filed July 9, 1949.

CALVITA

For Feed Supplement for Live Stock Whose Principal Ingredients Are Protein, Fat, Fiber, and Vitamins.
Claims use since Mar. 24, 1949.

Ser. No. 585,121. Jamieson Pharmacal Company, Detroit, Mich. Filed Sept. 21, 1949.

CLINIC

Applicant claims ownership of Registrations Nos. 322,144, 322,145, and 404,381.
For Absorbent, Alterative and Analgesic Preparations, Antacids, Anesthetics, Anodynes, Antianemic, Antiasthmatic, Antimalarial, Antiparasitic, Antipruritic, Antipyretic, Antiseptic, Antispasmodic, Astringent, Cathartic and Counter Irritant Preparations, Cough Compounds, Demulcent Preparations, Decongestant Preparations, Digestants, Diuretics, Emetic, Endocrine, Expectorant and Hypnotics, Intestinal Astringents and Lubricants, Irritant Preparations, Keratolytic Agents for the Removal of Calluses and Corns, Laxatives, Preparations for the Treatment of Mineral Deficiencies, Salt Replacement Preparations, Sedatives, Tonics, Urinary Antiseptics, Vasoconstrictive Preparations, Vasodilators, Vitamin Preparations, and Vitamin and Mineral Preparations.
Claims use since Feb. 7, 1948, as to the mark shown; and since May 25, 1932, as to "Clinic" and a variant of the design features.

Ser. No. 596,234. The Nope Corporation, Trenton, N. J. Filed Apr. 24, 1950.

IVY NOPE

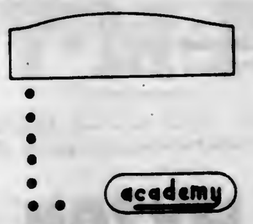
The word "Ivy" is disclaimed.
For Pharmaceutical Preparation for the Treatment of Ivy, Oak and Sumac Poisoning.
Claims use since Sept. 27, 1949.

Ser. No. 598,117. Sofia del Busto Razon, Madrid, Spain. Filed May 25, 1950.

Laxen-Busto

Applicant claims ownership of Spanish Registration No. 13,988, dated Jan. 17, 1948.
For Medicine Used for the Treatment of Obstruction (Costiveness).

Ser. No. 599,799. Academy Mfg. Drug Corp., New York, N. Y. Filed June 27, 1950.



For Medicinal and Pharmaceutical Preparations—Namely, Aminopyrine, Aminophyline, Ammonium Chloride, Amphetamine Sulfate, Aspirin, Bismuth Subnitrate, Bromural, Calcium Glutinate, Calcium Lactate, Cincophen, Dicalcium Phosphate, Desoxy Ephedrine Hydrochloride, Ephedrine Sulfate, Ferrous Sulphate, Folic Acid, Mannitol Hexanitrate, Methenamine and Sodium Biphosphate, Niacinamide, Nicotinic Acid, Riboflavin, Thiamine Chloride and Other Vitamin Preparations and Compounds; Phenobarbital, Phenacetin, Pyridoxine Hydrochloride, Quinine Sulfate and Other Quinine Compounds, Rutin Capsules, Salol, Sodium Bicarbonate, Sodium Salicylate, Sodium Pentobarbital, Stilbestrol, Sulphadiazine, Sulfaguanadine, Sulfamerazine, Sulfanilamide, Sulfapyridine, Sulfathiazole, Tri Sulfa Tablets, Thyroid Tablets, Aromatic U. S. P. Beef, Iron and Wine, N. F., Ferrous Sulphate, Glycerophosphates, Iron, Quinine and Strychnine, Lactated Pepsin, Pepsin and Rennin, Terpin Hydrate and Codeine,

Cascara Sagrada, Liniments, Calamine, Calamine Phenolated and Neocalamine Lotions, Aluminum Hydroxide Gel., Brown's Mixture, Rhubarb and Soda, Stoke's Expectorant, Milk of Bismuth, Alkaline Antiseptics, Ammonia Anisated, Benedict's Qualitative Solution, Coal Tar N. F., Dobell's Solution, Peptonized Iron and Manganeze, Aromatic Spirits of Ammonia, Spirits of Camphor, Spirits of Peppermint, Cough Syrup, Arnica, Asafetida, Belladonna, Benzoin Compound, Cudbear, Gentian Compound, (Green Soap Tincture), Hyoscyamus, Paregoric, Valerian, Ichthammol, Methyl Salicylate, Rose Water Ointment, Suppositories, Oil of Wintergreen and Triple Bromides.
Claims use since Sept. 22, 1935.

Ser. No. 601,695. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Aug. 3, 1950.

SPANSULS

For Unit of Medication for Oral Administration Comprising Multiples of Specially Coated Globules Each Containing an Increment of a Medicament Comprising a Central Nervous Stimulant and Providing for the Gradual Release of the Medicament Over an Extended Period of Time.
Claims use since May 8, 1950.

Ser. No. 602,584. The Upjohn Company, Kalamazoo, Mich. Filed Aug. 22, 1950.

Cortasoid

For Medicinal Preparation for the Treatment of Endocrine and Metabolic Diseases.
Claims use since Mar. 27, 1950.

Ser. No. 603,501. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Sept. 13, 1950.

NATALAD

Applicant claims ownership of Registration No. 538,989.
For Preparation for Internal Use Effective Against Ailments of the Alimentary Tract.
Claims use since July 19, 1950.

Ser. No. 603,804. Arthur Meyerhoff, doing business under the name Meyerhoff Farms, Chicago, Ill. Filed Sept. 20, 1950.

MYZON

For Mineral and Vitamin Compound Used as a Supplementary Dietary Preparation in Hog and Poultry Feeds.
Claims use since Aug. 3, 1950.

Ser. No. 605,737. General Pharmacal Corporation, Los Angeles, Calif. Filed Nov. 1, 1950.

THE Q-TEST

The words "The" and "Test" are disclaimed.
For Chemical Solution Used for Pregnancy Diagnosis.
Claims use since Nov. 9, 1949.

Ser. No. 606,179. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Nov. 9, 1950.

ESKADEC

Applicant claims ownership of Registrations Nos. 433,248, 505,844, and 227,550.
For Medicinal Preparation, More Particularly a Sodium Adsorbent for Use as a Dietary Supplement.
Claims use since Nov. 1, 1950.

Ser. No. 606,273. Cilag-Aktiengesellschaft, Schaffhausen, Switzerland. Filed Nov. 13, 1950.

BILAMIDE-CILAG

Applicant claims ownership of Swiss Registration No. 129,278, dated May 30, 1949.
For Pharmaceutical Preparations for Treating Cholecystitis, Cholangitis, and Other Febrile Diseases of the Gall Bladder and Gall Ducts.

Ser. No. 606,785. Metadier (Canada) Ltd., Montreal, Quebec, Canada. Filed Nov. 22, 1950.

METAMINE

Applicant claims ownership of Canadian Registration No. N. S. 33,848, Registration 132, dated July 22, 1949.
For Pharmaceutical Preparation Used as a Heart Stimulant.

Ser. No. 607,769. Smith, Kline & French Laboratories, Philadelphia, Pa. Filed Dec. 16, 1950.

ELTHRIN

For Hormone Preparation for Use as a Metabolic Stimulant.
Claims use since Oct. 17, 1950.

Ser. No. 607,938. Ciba Limited, Basel, Switzerland, assignor to Ciba Pharmaceutical Products, Inc., Summit, N. J. Filed Dec. 21, 1950.

ESPASMO-CIBALGINA

Applicant claims ownership of Swiss Registration No. 114,845, dated Feb. 27, 1946.
For Antispasmodic and Analgesic.

Ser. No. 608,382. Salmede, Inc., Miami, Fla. Filed Jan. 4, 1951.

SALMEDE

For Medicated Skin and Scalp Cream.
Claims use since Aug. 30, 1950.

Ser. No. 608,532. Calvin Chemical Corporation, Miami, Fla. Filed Jan. 9, 1951.

ANUCAINE

For Local Anaesthetic.
Claims use since Apr. 1, 1933.

Ser. No. 608,637. Takara Laboratories Corporation, Hollywood, Calif. Filed Jan. 10, 1951.

TAKARA

Applicant claims ownership of Registration No. 288,464.
For Hygienic Powder Used as a Douche for Feminine Hygiene, as a Foot Bath, and as a Gargle.
Claims use since 1916.

Ser. No. 608,841. The Upjohn Company, Kalamazoo, Mich. Filed Jan. 16, 1951.

Myciguent

Applicant claims ownership of Registration No. 514,895.
For Antibiotic Ointment Preparation.
Claims use since Sept. 21, 1950.

Ser. No. 609,347. E. R. Squibb & Sons, New York, N. Y. Filed Jan. 27, 1951.

BISTRIUM

For Antihypertensive Agent.
Claims use since Jan. 5, 1951.

Ser. No. 609,834. Abbott Laboratories, North Chicago, Ill. Filed Feb. 9, 1951.

Applicant claims ownership of Registration No. 406,473.
For Hypnotic, Anesthetic, and Sedative Preparations in Capsule Form.
Claims use since Nov. 29, 1940.

Ser. No. 609,960. Ciba Limited, Basel, Switzerland. Filed Feb. 12, 1951.

BRADORAL

Applicant claims ownership of Swiss Registration No. 129,993, dated July 22, 1949.
For Antiseptic Preparation—Namely, Disinfectant.

Ser. No. 609,961. Ciba Limited, Basel, Switzerland. Filed Feb. 12, 1951.

CRISTAFOLIN

Applicant claims ownership of Swiss Registration No. 135,676, dated Nov. 7, 1950.
For Pharmaceutical Preparations for Use in the Treatment of Cardiac Diseases.

Ser. No. 610,395. Wyeth Incorporated, Philadelphia, Pa. Filed Feb. 21, 1951.

WYDENT

Applicant claims ownership of Registrations Nos. 531,510, 533,135, and 542,829.
For Hyaluronidase and Procaine Hydrochloride for Dental Use.
Claims use since Jan. 17, 1951.

Ser. No. 611,172. Ed. Geistlich Söhne A. G. für Chemische Industrie, Wolhusen, Switzerland. Filed Mar. 12, 1951.

GEWO

Applicant claims ownership of Swiss Registration No. 109,599, dated Dec. 14, 1944.
For Pharmaceutical Preparation of Calcium and Vitamin C for Injection.

Ser. No. 611,455. Schering Corporation, Bloomfield, N. J. Filed Mar. 16, 1951.

ORATYMOL

For Pharmaceutical Preparation Consisting of a Combination of Hormones for Internal Administration.
Claims use since Jan. 16, 1951.

Ser. No. 611,531. Mrs. M. B. Rapp, Santa Monica, Calif. Filed Mar. 19, 1951.

PHYMEL

For Concentrate From Agaricus Campestris (Cultivated Mushroom) for Use in Treating Arthritic Conditions.
Claims use since Apr. 5, 1949.

Ser. No. 611,585. Welles T. Ross, doing business as Capper Laboratories, Ontario, Calif. Filed Mar. 20, 1951.

V-M-F

For Concentrated Vitamin Mineral Supplement for Livestock and Poultry.
Claims use since Mar. 8, 1951.

Ser. No. 613,589. Ed. Geistlich Söhne A. G. für Chemische Industrie, Wolhusen, Switzerland. Filed May 7, 1951.

GEWODIN

Applicant claims ownership of Swiss Registration No. 128,491, dated Mar. 31, 1949.
For Analgesic Medical Preparation.

Ser. No. 613,898. Dorothy M. Carbonaro, doing business as Vita Laboratories, Auburn, N. Y. Filed May 16, 1951.

NITROBROM

For Formula for the Treatment of Hypertension.
Claims use since May 6, 1937.

Ser. No. 614,611. Bio-Cam Products, Inc., Chicago, Ill. Filed June 1, 1951.

bio-cam

For Ointment.
Claims use since May 18, 1951.

Ser. No. 617,266. Schieffelin & Co., New York, N. Y. Filed Aug. 2, 1951.

BENSTROL

For Synthetic Estrogen.
Claims use since Apr. 19, 1951.

Ser. No. 617,279. Colin Pharmacal Co., Inc., Long Island City, N. Y. Filed Aug. 3, 1951.

MIVIPLUS

For Vitamin and Mineral Preparation in Tablet Form.
Claims use since July 20, 1951.

Ser. No. 617,349. C. B. Kendall Co., Indianapolis, Ind. Filed Aug. 4, 1951.

HEXARUTAN

For Hypertension Tablet.
Claims use since Feb. 9, 1948.

Ser. No. 617,501. The Iso-Sol Company, Inc., Brooklyn, N. Y. Filed Aug. 9, 1951.

TEARISOL

For Ophthalmological Preparation, e. g., Artificial Tears.
Claims use since Apr. 15, 1951.

Ser. No. 617,557. Sharp & Dohme, Incorporated, Philadelphia, Pa. Filed Aug. 10, 1951.

REDICYTE'

For Preparation for Use in the Treatment of Anemias and Other Cases of Impoverished Blood Conditions and Other Metabolic Deficiencies.
Claims use since June 12, 1951.

Ser. No. 617,592. U. S. Vitamin Corporation, New York, N. Y. Filed Aug. 11, 1951.

AQUASYNTH A

The letter "A" is disclaimed.
For Water Solubilized Synthetic Vitamin A.
Claims use since July 12, 1951.

CLASS 19

VEHICLES

Ser. No. 574,566. Bergen Point Iron Works, Bayonne, N. J. Filed Feb. 26, 1949.

MONOTER

For Narrow Gauge Railway Cars.
Claims use since Jan. 6, 1949.

Ser. No. 619,777. Universal Sales, Inc., Delaware, Ohio. Filed Oct. 9, 1951. (Sec. 2f.)

VANETTE

For Delivery Trucks.
Claims use since Sept. 9, 1939.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 577,955. Essex Wire Corporation, Detroit, Mich. Filed Apr. 29, 1949.

PARAPRENE

For Oil-Resistant Insulated Electrical Wire.
Claims use since Apr. 22, 1940.

Ser. No. 602,398. Hoffman Radio Corporation, Los Angeles, Calif. Filed Aug. 18, 1950.

SILVER CIRCLE

For Tuning Units for Television Receivers.
Claims use since July 19, 1950.

Ser. No. 610,141. The Radiart Corporation, Cleveland, Ohio. Filed Feb. 15, 1951.

HI-BALL

For Automobile Aerials.
Claims use since June 1, 1949.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 597,750. Julia C. Gray, Manteo, N. C. Filed May 19, 1950.

Miss Freedom

For Dolls and Doll Clothing.
Claims use since Mar. 16, 1950.

Ser. No. 601,170. Albert N. Schaffhausen, Sr., St. Paul, Minn. Filed July 24, 1950.

SQUIRLY WHIRL

The word "Whirl" is disclaimed.
For Amusement Device for Children Consisting of a Metal Tub To Be Used as a Sled on Ice and Snow.
Claims use since Oct. 27, 1949.

Ser. No. 601,402. American Manufacturing Concern, Inc., Falconer, N. Y. Filed July 29, 1950.

Falcon

For Toys—Namely, Building Blocks, Doll Swings, Rocking Horses, and Children's Toy Blackboards.
Claims use since January 1920.

Ser. No. 604,482. Charles H. Luhrs, doing business under the name of C. H. Luhrs & Co., Hackensack, N. J. Filed Oct. 5, 1950.

CUBIC

For Tic-Tack-Toe Game.
Claims use since November 1938.

Ser. No. 605,133. Ashaway Line & Twine Mfg. Co., Ashaway, R. I. Filed Oct. 19, 1950.

PRO-FECTED

The word "Pro" is disclaimed.
For Strings for Tennis Rackets, Squash Rackets, Badminton Rackets, and Fish Hook Leaders, Commercial and Sporting Fishing Lines.
Claims use since Aug. 1, 1950.

Ser. No. 605,439. Gladys M. Raborn, San Antonio, Tex. Filed Oct. 25, 1950.

Tené

For Dolls' Clothing.
Claims use since May 3, 1950.

Ser. No. 608,310. J. Halpern Company, Pittsburgh, Pa. Filed Jan. 3, 1951.

Smoky Joe

The word "Smoky" is disclaimed.
For Toy Pistols and Holster Sets.
Claims use since Feb. 15, 1950.

Ser. No. 618,235. Ideal Toy Corporation, Hollis, N. Y. Filed Aug. 30, 1951.

Loony Lids

The word "Lids" is disclaimed.
For Inflatable Toy Worn as a Headpiece for Amusement Purposes.
Claims use since Aug. 1, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 522,824. Cherry-Burrell Corporation, Chicago, Ill. Original filed, act of 1905, May 22, 1947; amended to application under act of 1946, Principal Register, Aug. 3, 1951. (Sec. 2f.)

Uni-Flow

For Fluid Feeders and Proportioning Devices, One Specific Example of Which Is an Alkali Feeder in the Nature of an Automatic Proportioner, Which May Be Used To Maintain the Concentration of Alkali in the Wash Solutions in an Automatic Can Washer, Being Comprised of Two Receptacles, One Within Another, Where a Regulatory Valve and Strainer Permit the Controlled Amount of Liquid To Flow Into the Inside Receptacle, Which Slowly Settles and Displaces a Like Amount of Alkali Solution From the Outer Receptacle Into the Tank of the Can Washer by Means of the Feed Line.
Claims use since Apr. 1, 1946.

Ser. No. 551,598. Wells Manufacturing Corporation, Three Rivers, Mich. Filed Mar. 9, 1948. (Sec. 2f.)

Quikut

For Motor Driven Sawing Machines for Cutting Meat, Bone, Fish, and the Like.
Claims use since Aug. 15, 1937.

Ser. No. 574,774. Ingeniorsfirman Ljung & Lindqvist, Stockholm, Sweden. Filed Mar. 2, 1949.

LINST

Applicant claims ownership of Swedish Registration No. 65,149, dated Oct. 15, 1948.
For Gripping and Holding Machines for Pulling and Stretching Ropes and Wires, Used in Connection With Raising Poles, Columns and Masts, and Parts Thereof, and Cranes and Hoists Used in Connection With Wrecking Trucks.

Ser. No. 579,088. Food Machinery and Chemical Corporation, San Jose, Calif. Filed May 19, 1949.

CYCLONE

For Spraying and Dusting Machines for Applying Insecticides to Plants.
Claims use since Mar. 6, 1935.

Ser. No. 582,691. International Salt Company, Scranton, Pa. Filed July 29, 1949.

SILO LIXATOR

For Salt Dissolving Devices Comprised of a Tank, a Hopper for Admission of Salt, and Filtered Brine Outlet for Production of Brine for Use in Industry.
Claims use since Feb. 19, 1936.

Ser. No. 587,572. B. I. Weller Co., Chicago, Ill. Filed Nov. 9, 1949.

BIWELCO

For Equipment Used Particularly in the Handling and Transporting of Grain or Similar Material—Namely, Elevator Buckets, Elevator Legs, Carloading Spouts for Use With Elevator Legs, and Troughs and Linings for Use With Screw Conveyors.
Claims use since Feb. 1, 1949.

Ser. No. 595,051. The Baldwin Locomotive Works, Eddystone, Pa., now by change of name Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania. Filed Apr. 1, 1950. (Sec. 2f.)

BALDWIN

For Hydraulic Machinery—Namely, Baling Presses, Bending Presses, Curb Presses, Die Sinking Presses, Elevators, Flanging Presses, Forcing Presses, Forming Presses, Grinding Wheel Presses, Molding Presses, Presses for Belts, Tile, Tire, Solid Carbon Dioxide, Veneers, Wallboard, and Wheels, and Straightening Presses; Hydraulic Turbines; Power Tools—Namely, Plate Bending Rolls and Planers; Ship Steering Gears; Internal Combustion Engines; and Engine Type Locomotives.
Claims use since 1944.

Ser. No. 617,767. Philadelphia Gear Works, Inc., Philadelphia, Pa. Filed Aug. 16, 1951. (Sec. 2f.)

MOTOREDUCER

For Motor and Gear Drives.
Claims use since 1933.

Ser. No. 618,906. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed Aug. 14, 1951. Sec. 2f.)

AIR BLOC

Applicant claims ownership of Registration No. 397,138.
For Pneumatic Hoists.
Claims use since Aug. 22, 1940.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 578,862. Barlow & Seelig Manufacturing Company, Ripon, Wis., now by change of name Speed Queen Corporation, a corporation of Delaware. Filed May 14, 1949.

ARC-CUATE

For Washing Machine Transmissions.
Claims use since January 1948.

CLASS 25

LOCKS AND SAFES

Ser. No. 599,307. George G. Canter, doing business as Security Seal Company, New York, N. Y. Filed June 17, 1950.



The representation of the goods and the wording "Security Seals Always On Guard" are disclaimed.
For Self-Locking Tamperproof Seals for Use on Railroad Car and Truck Body Doors, Locker and Storage Compartment Doors, Tank Cars and Other Containers and the Like for the Protection of Goods, Equipment and Other Things Against Theft, Pilferage, or Tampering and for Use on Fur Pelts and the Like for Identification.
Claims use since July 1949.

Ser. No. 601,540. Diebold, Incorporated, Canton, Ohio. Filed Aug. 1, 1950. (Sec. 2f.)

AFTER HOUR

For Night Depositories for Banks.
Claims use since Oct. 14, 1924.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 585,246. Polytechnic Research and Development Company Incorporated, Brooklyn, N. Y. Filed Sept. 23, 1949.



For Electrical Apparatus for the Measurement of High Frequency Electric Waves—Namely, Tunable Probes, Tunable Crystal and Bolometer Mounts for Coaxial Lines and Waveguides, Crystal Mounts for Waveguides, Thermistor Mounts for Waveguides, Fixed and Variable Attenuators for Coaxial Lines and Waveguides, Coaxial Reference Cavities and Frequency Meters.
Claims use since June 1948.

Ser. No. 585,524. The Frederick Post Company, Chicago, Ill. Filed Sept. 29, 1949.

EXCELSIOR

For Encased Set of Instruments for Mechanical Drawing—Namely, Dividers, Pen and Pencil Compasses, Ruling Pens.
Claims use since June 15, 1910.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 613,065. Sol Goldfeder, New York, N. Y. Filed Apr. 24, 1951.



The words "Birmingham" and "Silver" are disclaimed. Applicant claims ownership of Registration No. 522,559.
For Sterling Silver and Silver-Plated Flat-Ware and Hollow-Ware—Namely, Candelabra, Trays, Water Pitchers, Champagne Buckets, Vegetable Platters, Lazy Susans, Punch Bowls and Cups, Tea Sets, Sugar and Creamers, Tea Kettles, Gravy Bowls, Cocktail Trays and Coffee Urns.
Claims use since Jan. 2, 1951.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Ser. No. 595,163. The Silicote Corporation, Oshkosh, Wis. Filed Apr. 3, 1950.

Silicote

Applicant claims ownership of Registration No. 432,432.
For Chemically Treated Polishing Cloths for Use on Guns, Tools, Household Furnishings, and Automobiles.
Claims use since February 1946.

Ser. No. 606,567. Premo Rubber Company Limited, Petersfield, England. Filed Nov. 17, 1950.

PREMO

Applicant claims ownership of British Registration No. 532,315, dated June 1, 1932.
For Complexion and Massage Brushes, Bath Brushes, Hand and Nail Brushes, and Suede Brushes.

Ser No. 607,703. Consolidated Manufacturing Corporation, New Orleans, La. Filed Dec. 15, 1950.

"Treasure"

For Mops—Namely, Floor Mops.
Claims use since Nov. 17, 1947.,

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 527,835. The Creamery Package Mfg. Company, Chicago, Ill. Filed July 5, 1947.

Creamery Package

The word "Creamery" is disclaimed.
For Dairy Products Processing Machinery and Equipment—Namely, Coolers, Industrial Refrigerant Compressors and Parts Therefor, Refrigerant Valves and Fittings for Such Equipment, Refrigerant Filters, Refrigerant Strainers, Ice Cream Freezers, Trays and Forms Used in Ice Cream-Making Plants and Refrigerant Controls.
Claims use since 1898.

Ser. No. 612,431. Automatic Steam Products Corp., New York, N. Y. Filed Apr. 10, 1951.

AQUASTEAM

For External Water Filter Unit for Feeding Water to Steam Irons.
Claims use since Jan. 9, 1951.

Ser. No. 615,616. The Heat-X-Changer Co., Inc., Brewster, N. Y. Filed June 22, 1951.

heat-x

The word "Heat" is disclaimed.
For Heat Exchange Units for Cooling Beverages and Similar Liquids—Namely, Such Units for Cooling Water, Carbonated Beverages and Uncarbonated Beverages, With the Use of Volatile Refrigerant and Also Units Which Use Ice.
Claims use since January 1946.

Ser. No. 616,608. Portland Woolen Mills, Inc., Portland, Oreg. Filed July 17, 1951.

FUMEALL

For Precut Blanks for Forming Filter Bags, and Wholly Prefabricated Filter Bags, Both Formed of a Fabric Composed of Wool and Synthetic Fibers Designed for Filtering Gases and Liquids.
Claims use since Nov. 16, 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 558,778. J. L. Chase Company, Chicago, Ill. Filed June 9, 1948. (Sec. 2f.)



The word "America's" and the pictorial representation of the chair are disclaimed. The name "J. L. Chase" appearing in the mark is fictitious.

For Upholstered Chairs and Sofas.

Claims use since Dec. 17, 1937.

Ser. No. 559,613. Jamestown Lounge Company, Jamestown, N. Y. Filed June 18, 1948.

BRITISH OAK

The words "British Oak" are disclaimed. Applicant claims ownership of Registrations Nos. 282,926 and 380,145.

For Household Furniture Including Dining-Room, Bed-Room, and Living-Room—Namely, Chairs, Tables, Benches, Footstools, Cabinets, Chests, Beds, Dressers, Sofas, and Davenports Built to Order.

Claims use since Jan. 4, 1939.

Ser. No. 602,933. Darling Carriage Co., Inc., New York, N. Y. Filed Aug. 30, 1950.

TEMP-FLEX

For Bed Springs, Crib Springs, Covered Box Springs, Spring Mattresses for Beds, and Cribs and Spring Units for Box Springs and Bed and Crib Mattresses.

Claims use since Aug. 15, 1941.

Ser. No. 603,848. National Chair Co., Whitman, Mass. Filed Sept. 21, 1950.

Dyna-Lite

The word "Lite" is disclaimed.

For Dinette Sets in Chrome and Wood.

Claims use since Nov. 1, 1949.

Ser. No. 607,007. Coppes, Inc., Nappanee, Ind. Filed Nov. 28, 1950. (Sec. 2f.)

NAPANEE

Applicant claims ownership of Registration No. 104,014.

For Custom-Built Kitchen Equipment—Namely, Base Cabinets, Wall Cupboards, Tables, Sink Cabinets, Sink and Counter Tops, Cabinet Fronts for Sink Installations, Breakfast Bars, Broom Closets, Dish Closets, Wood Valances, and Open Shelves.

Claims use since June 17, 1914.

Ser. No. 614,592. Washington Steel Products, Inc., Tacoma, Wash. Filed May 31, 1951. (Sec. 2f.)

WASHINGTON

For Metal Drawers, Specifically Cabinet Drawers, Compartmented Cabinet Drawers and Multiple Cabinet Drawer Combinations.

Claims use since 1935.

Ser. No. 614,784. Penron, Inc., New York, N. Y. Filed June 5, 1951.

Penron

For Household Furniture—Namely, Chests, Bureaus, Chests of Drawers, Bookcases, Desks, Cabinets, Tables, Stands, Shelves in the Nature of Furniture, and Racks in the Nature of Furniture.

Claims use since May 1, 1950.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 590,880. Boyle-Midway Inc., New York, N. Y. Filed Jan. 14, 1950.

WIZARD

Applicant claims ownership of Registration No. 304,280.

For Space Deodorising Device Comprising a Container for Deodorising Liquid, a Manually Movable Wick for Diffusing the Same, and a Closure for Said Container When Not in Use.

Claims use since 1934.

Ser. No. 602,019. Campbell Heating Co., Des Moines, Iowa. Filed Aug. 10, 1950.

PERIMETAIR

For Warm Air Heating Systems Including Furnaces and Warm Air Ducts Immediately Under the Floors Which Deliver Warm Air Behind Baseboards Having Discharge Slots or Openings.

Claims use since Nov. 13, 1948.

Ser. No. 611,710. Morrison Steel Products Inc., Buffalo, N. Y. Filed Mar. 23, 1951.

KORASUN

For Oil and Gas Burning Furnaces.

Claims use since July 12, 1946.

CLASS 37

PAPER AND STATIONERY

Ser. No. 527,646. Valley Paper Company, Holyoke, Mass. Filed July 5, 1947.

CROWN IMPERIAL

For Writing, Typewriter and Printing Paper.

Claims use since 1896.

Ser. No. 580,079. Joe Lowe Corporation, New York, N. Y. Filed June 7, 1949.



The pictorial representation of the boy shown in the drawing is fanciful.

For Pencils, Pen and Pencil Sets, Photo Albums, Postage Stamp Albums, and Postage Stamp Hinges.

Claims use since Feb. 17, 1949.

Ser. No. 586,827. Wire-O Corporation, Poughkeepsie, N. Y. Filed Oct. 25, 1949.

WIRE-O

The word "Wire" is disclaimed. Applicant claims ownership of Registrations Nos. 329,036 and 342,689.

For Loose-Leaf and Permanent Binders.

Claims use since Dec. 31, 1934.

Ser. No. 599,672. Westfield River Paper Co., Inc., Russell, Mass. Filed June 23, 1950. (Sec. 2f.)

PAPERGLAS

Applicant claims ownership of Registrations Nos. 168,032 and 535,322.

For Wrapping and Transparent Papers.

Claims use since 1918.

Ser. No. 600,421. Crown Zellerbach Corporation, also doing business as Crown Willamette Paper Company, San Francisco, Calif. Filed July 10, 1950.

FACIALFOLD

For Paper Napkins.

Claims use since May 25, 1950.

Ser. No. 600,581. Fine Arts Litho Company, Dallas, Tex. Filed July 13, 1950.

ADCHROME

For Blank Post Cards Used for Printing Advertising To Be Circulated Through the Mail.

Claims use since June 15, 1950.

Ser. No. 601,236. I. Monte Silverberg, doing business as American Bancservice Company, Chicago, Ill. Filed July 25, 1950. (Sec. 2f.)

Handi-Pocket Coin Bank

The words "Coin Bank" are disclaimed.

For Coin Banks in the Nature of Paper Envelopes.

Claims use since Jan. 18, 1940.

Ser. No. 604,921. The Northwest Paper Company, Cloquet, Minn. Filed Oct. 14, 1950.



The drawing is lined for red. The words "Paper Company" and "Manufacturers Since 1898" are disclaimed.

Applicant claims ownership of Registration No. 215,318.

For Fine Papers, Envelope Paper, Printing Paper, and Converting Paper.

Claims use since Mar. 3, 1950.

Ser. No. 609,747. Universal Camera Corporation, New York, N. Y. Filed Feb. 7, 1951.

JIFFY MASK

The word "Mask" is disclaimed.

For Paper Masks Used for Mounting Photographic Transparencies.

Claims use since February 1946.

Ser. No. 612,972. Oregon Pulp & Paper Company, Salem and Portland, Oreg. Filed Apr. 21, 1951.

RHINO INDEX "Tough as a Rhino" BRISTOL "Tough as a Rhino"

The words "Index Bristol" and "Tough" are disclaimed.
For Index Bristol Heavy Paper or Paper Board.
Claims use since Mar. 1, 1948.

Ser. No. 615,880. The Chilcote Company, Cleveland, Ohio. Filed June 29, 1951.

MASTER MOUNTINGS

The word "Mountings" is disclaimed. Applicant claims ownership of Registration No. 279,436.
For Picture Mounts That Are Made Entirely or in Major Part of Paper and Cardboard.
Claims use since May 20, 1929.

Ser. No. 617,680. Riegel Paper Corporation, New York, N. Y. Filed Aug. 14, 1951. (Sec. 2f.)

DIAFANE

For Wrapping Paper.
Claims use since Aug. 2, 1930.

Ser. No. 618,029. Arthur Doniger Paper Co., Inc., New York, N. Y. Filed Aug. 24, 1951.

Fantasie

For Paper Napkins.
Claims use since February 1951.

Ser. No. 618,245. St. Regis Paper Company, New York, N. Y. Filed Aug. 30, 1951.

ROLLALOY

For Paper for Use in Interleaving With Sheet Metal.
Claims use since Aug. 7, 1951

Ser. No. 618,907. Cleevelandt Corporation, New York, N. Y. Filed Aug. 21, 1951. (Sec. 2f.)

VanCleeve

Applicant claims ownership of Registration No. 500,102.
For Fountain Pens.
Claims use since July 25, 1946.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 608,718. The Romanian Orthodox Missionary Episcopate in America, Cleveland, Ohio. Filed Jan. 12, 1951.

SOLIA

The drawing is lined for shading. A literal English translation of the Romanian word "Solia" is "A message sent through a bearer."
For Weekly Newspaper,
Claims use since 1936.

Ser. No. 613,517. Ruth Elizabeth McDevitt, also known as Betty Ruth McDevitt, Silver Spring, Md. Filed May 4, 1951.

UP MY SLEEVE

For Newspaper Column.
Claims use since Apr. 7, 1948.

Ser. No. 615,148. Jack S. Wolfe, Des Moines, Iowa, assignor, by mesne assignments, to Farmer's Market Bulletin, Inc., Highland Park, Ill., a corporation of Illinois. Filed June 13, 1951. (Sec. 2f.)

Farmer's Market Bulletin

Applicant claims ownership of Registration No. 277,060.
For Newspaper.
Claims use since 1920.

Ser. No. 616,546. H. S. Crocker Co., Inc., doing business as Crocker-Union and California Artists, San Bruno, Calif. Filed July 16, 1951.

Ralph Hulett

The trade-mark is in the handwriting of Ralph Hulett whose consent to use is of record.
For Christmas Cards.
Claims use since Feb. 12, 1951.

Ser. No. 617,218. Stratton & Terstegge Company, Louisville, Ky. Filed Aug. 1, 1951.

angles for anglers

The word "Anglers" is disclaimed.
For Annual Publication Featuring Information Useful to Fishermen.
Claims use since Mar. 15, 1949.

Ser. No. 617,250. Johnston Export Publishing Co., New York, N. Y. Filed Aug. 2, 1951. (Sec. 2f as to the words "American Exporter.")

AMERICAN EXPORTER

The trade-mark consists in the expression "American Exporter" in white letters on a red rhomboid, the drawing being lined for red. Applicant claims ownership of Registrations Nos. 226,592, 232,091, 516,434, and 516,435.
For Periodical Publications.
Claims use since March 1949 as shown; and since 1877 as to the words "American Exporter."

Ser. No. 617,252. Johnston Export Publishing Co., New York, N. Y. Filed Aug. 2, 1951. (Sec. 2f as to "El Exportador Americano.")

EXPORTADOR AMERICANO

The drawing is lined for red. Applicant claims ownership of Registrations Nos. 226,592, 232,091, and others.
For Periodical Publications.
Claims use since March 1949 on the mark as shown; and since 1889 as to "El Exportador Americano."

Ser. No. 618,784. California Fruit Growers Exchange, Los Angeles, Calif. Filed Sept. 14, 1951.

Sunkist

For Publications Issued From Time to Time.
Claims use since April 1910.

Ser. No. 618,974. McGraw-Hill Company of California, San Francisco, Calif. Filed Sept. 19, 1951. (Sec. 2f.)

ELECTRICAL WEST

For Industrial and Trade Magazines Published Monthly.
Claims use since 1927.

Ser. No. 618,977. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 19, 1951. (Sec. 2f.)

Electrical World

Applicant claims ownership of Registration No. 405,712.
For Magazines Published Periodically.
Claims use since 1883.

Ser. No. 618,978. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 19, 1951. (Sec. 2f.)

ENGINEERING NEWS-RECORD

Applicant claims ownership of Registration No. 408,444.
For Magazines Published Periodically.
Claims use since 1917 as to the mark shown; since 1877 as to "Engineering News"; and since Dec. 6, 1890, as to "The Engineering Record."

Ser. No. 619,426. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 14, 1951. (Sec. 2f.)

BUS TRANSPORTATION

Applicant claims ownership of Registration No. 405,554.
For Magazines Published Periodically.
Claims use since 1922.

Ser. No. 619,427. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 14, 1951. (Sec. 2f.)

ELECTRICAL MERCHANDISING

Applicant claims ownership of Registration No. 405,738.
For Magazines Published Periodically.
Claims use since 1915.

Ser. No. 619,428. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 14, 1951. (Sec. 2f.)

electronics

Applicant claims ownership of Registration No. 391,134.
For Periodical Published Monthly.
Claims use since Apr. 15, 1930.

Ser. No. 619,429. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 14, 1951. (Sec. 2f.)

NUCLEONICS

Applicant claims ownership of Registration No. 429,624.
For Publication Issued From Time to Time Pertaining to Atomic Energy and Related Subjects.
Claims use since Mar. 15, 1946.

Ser. No. 619,430. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 14, 1951. (Sec. 2f.)

PRODUCT ENGINEERING

Applicant claims ownership of Registration No. 407,276.
For Magazines Published Periodically.
Claims use since June 1930.

CLASS 39

CLOTHING

Ser. No. 543,512. L. Nachman & Son, Inc., Philadelphia, Pa. Filed Dec. 5, 1947.

SUN-SWIRL

Applicant claims ownership of Registration No. 407,802.
For Women's and Misses' Textile Aprons.
Claims use since Nov. 10, 1947.

Ser. No. 547,005. Harry G. Kuechle, doing business as The Double Wear Shoe Co., Minneapolis, Minn. Filed Jan. 14, 1948. (Sec. 2f.)

THE DOUBLE WEAR SHOE CO.

Applicant claims ownership of Registration No. 189,489.
For Men's and Children's Shoes.
Claims use since June 1, 1918.

Ser. No. 576,340. The Frank H. Lee Company, Danbury, Conn. Filed Mar. 30, 1949. (Sec. 2f as to "Disney.")



The phrases "Founded 1885" and "New York" and the representation of a hat are disclaimed. The portrait which appears on the drawing is fanciful. Applicant claims ownership of Registration No. 170,392.
For Men's and Women's Hats and Caps.
Claims use since March 1946 on the mark as shown; and since 1885 on the word "Disney."

Ser. No. 579,133. Red Wing Shoe Company, Inc., Red Wing, Minn., and Dallas, Tex. Filed May 19, 1949.

RED WING
SWEAT PROOF
INSOLES

The notation "Sweat Proof Insoles" is disclaimed.
For Insoles.
Claims use since 1939.

Ser. No. 581,090. Sears, Roebuck and Co., Chicago, Ill. Filed June 25, 1949. (Sec. 2f.)

Beautifilm

Applicant claims ownership of Registration No. 393,253.
For Women's and Misses' Hosiery.
Claims use since Jan. 25, 1939.

Ser. No. 583,651. Hawick Knitwear Limited, Hawick, Scotland. Filed Aug. 18, 1949.



The representation of the person shown on the drawing is that of "Teribus," a border leader having historical connection with the town of Hawick, Scotland.
For Knitted Articles of Outer-Wear—Namely, Sweaters Including Twin Sets, Cardigans, Pullovers, Slipons, All for Men, Women, and Children, and Knitted Underwear for Men, Women, and Children.
Claims use since Oct. 29, 1925; and since Jan. 1, 1926, in commerce between foreign nations and the United States.

Ser. No. 584,333. A. S. Kreider Shoe Manufacturing Company, Elizabethtown, Pa. Filed Sept. 1, 1949.

COMMANDER
SHOES FOR BOYS
ASK

The notation "Shoes for Boys" is disclaimed. The drawing is lined for shading purposes only.
For Boys' Shoes of Leather, Fabric, or Part Leather and Part Fabric.
Claims use since Mar. 8, 1929.

Ser. No. 587,705. Best Made Silk Hosiery Company, Quakertown, Pa. Filed Nov. 14, 1949. (Sec. 2f.)



The words "Best Made" are disclaimed. Applicant claims ownership of Registration No. 192,334.
For Ladies' Hosiery.
Claims use since Feb. 20, 1924.

Ser. No. 593,983. The Grace Company, Belton, Mo. Filed Mar. 15, 1950.

CRAWLIERAIL

Applicant claims ownership of Registration No. 385,472.
For Overall Garments for Infants—Namely, Overall Suits Consisting of a Jacket and Pants; and Overall Ensembles Comprising, With the Jacket and Pants, a Hat or Bonnet.
Claims use since February 1949.

Ser. No. 597,184. Walls Manufacturing Co. Inc., Cleburne, Tex. Filed May 9, 1950.



The words "Of Texas" and the representation of the State of Texas are disclaimed.
For Boys' and Girls' Outer Garments Comprising Jeans, Jackets, and Boys' and Girls' Underwear.
Claims use since Feb. 2, 1950.

Ser. No. 597,965. Mammoth Hosiery Mills, Inc., Philadelphia, Pa. Filed May 23, 1950.



For Women's Hosiery.
Claims use since June 1947.

Ser. No. 597,966. Marilyn Hosiery Mill, Lehighton, Pa. Filed May 23, 1950.

Dainty Foot by Marilyn

The word "Foot" is disclaimed.
For Women's Hosiery.
Claims use since Apr. 26, 1950.

Ser. No. 598,363. Greatrex Ltd., New York, N. Y. Filed May 31, 1950.



The word "England" is disclaimed.
For Leather Clothing—Namely, Leather Gloves.
Claims use since 1947.

Ser. No. 598,892. Country Tweeds Incorporated, New York, N. Y. Filed June 10, 1950.

Dream Drift

For Women's, Misses', and Juniors' Coats.
Claims use since May 31, 1950.

Ser. No. 599,175. Hubbard Shoe Company, Incorporated, Rochester, N. H. Filed June 15, 1950.

Springflex

The word "Flex" is disclaimed.
For Women's Shoes of Leather, Fabric, or Combinations Thereof.
Claims use since June 1, 1950.

Ser. No. 600,069. Namm's, Inc., Brooklyn, N. Y. Filed June 30, 1950.

Kentshire

For Men's and Boys' Shoes of Leather, Calfskin, Kid; Slippers of Leather, Felt, and Wool; Leather and Wool Gloves; Leggings, Overgaiters, and Spats; Suits, Overcoats, Bath Robes, Beach Robes, House Robes, Bathing Suits, Hats, Caps, Sweaters, Sweater Jackets, Pyjamas, Mufflers, Stockings, and Socks.
Claims use since Mar. 8, 1927.

Ser. No. 602,457. Nicholas A. Kounovsky, New York, N. Y. Filed Aug. 19, 1950.

NAKS

For Men's, Women's, and Children's Exercise Suits.
Claims use since Feb. 10, 1949.

Ser. No. 602,559. Lancedale Hosiery Company, New York, N. Y. Filed Aug. 22, 1950.

Lancedale

For Men's, Women's, and Children's Hosiery.
Claims use since Apr. 12, 1949.

Ser. No. 603,605. John B. Stetson Company, Philadelphia, Pa. Filed Sept. 15, 1950. (Sec. 2f.)

EMERSON

Applicant claims ownership of Registration No. 305,835.
For Hats and Caps for Men, Women, and Children.
Claims use since 1898.

Ser. No. 605,973. Shoe Corporation of America, Columbus, Ohio. Filed Nov. 6, 1950.



For Men's, Women's, and Children's Bowling Shoes.
Claims use since Oct. 30, 1950.

Ser. No. 606,010. Harold Glucksman, Brooklyn, N. Y. Filed Nov. 7, 1950.



For Women's, Men's, and Children's Shoes.
Claims use since Oct. 16, 1950.

Ser. No. 606,772. Gray Brothers Shoes, Inc., Syracuse and New York, N. Y. Filed Nov. 22, 1950.

Featheretts

For Leather Shoes for Women.
Claims use since June 1950.

Ser. No. 606,780. Shalom Joseph, doing business as Havva Hosiery Mills, Chicago, Ill. Filed Nov. 22, 1950.

Havva

For Women's Hosiery.
Claims use since May 23, 1950.

Ser. No. 606,782. The Kahan Co., Kansas City, Mo. Filed Nov. 22, 1950.



The pictorial representation of the boy is fanciful.
For Boys' Clothing—Namely, Pants, Jackets, Slacks, Boxer Shorts, Sun Suits, Leisure Suits, and Jodhpurs.
Claims use since Aug. 31, 1950.

Ser. No. 607,176. I. B. Kleinert Rubber Company, New York, N. Y. Filed Dec. 1, 1950.

PUCKER

For Protective Head Covering—Namely, Ladies' Night Caps and Coiffure-Molding Caps.
Claims use since Oct. 26, 1950.

Ser. No. 607,180. Booker McClay, doing business under the trade name Booker McClay Company, Washington, D. C. Filed Dec. 1, 1950.

Rainettes

For Waterproof Covers for Ladies' Shoes.
Claims use since Apr. 20, 1950.

Ser. No. 607,805. Gerda Footwear Co., Inc., New York, N. Y. Filed Dec. 18, 1950.



The word "Texas" is disclaimed.
For Cowboy Boots, Shoes, and Slippers for Children.
Claims use since Jan. 25, 1950.

Ser. No. 610,550. B. Friedman Shoe Co., Inc., New York, N. Y. Filed Feb. 27, 1951.



The word "Leonardo" is disclaimed.
For Girls' and Women's Shoes.
Claims use since Oct. 20, 1950.

Ser. No. 611,076. Cashman & Massat, Newark, N. J. Filed Mar. 9, 1951.



For Shoes for the Use of Men, Women, and Children for Corrective Relief in Postural and Foot Distortions.
Claims use since Nov. 7, 1937.

Ser. No. 611,274. Hebe Sports Limited, London, England. Filed Mar. 14, 1951.

HEBE SPORTS

The word "Sports" is disclaimed. Applicant claims ownership of British Registration No. 636,303, dated Apr. 10, 1945.
For Women's Coats, Suits, Costumes, Skirts, Blouses, Jumpers, Pullovers, Dresses, Frocks, and Slacks.

Ser. No. 611,571. Full-Knit Hosiery Mills, Inc., Burlington, N. C. Filed Mar. 20, 1951.

FIBRE-ALL

The word "Fibre" is disclaimed.
For Men's Hosiery.
Claims use since Feb. 6, 1951.

Ser. No. 611,929. Irving Wirth, Liberty, N. Y. Filed Mar. 28, 1951.



The name "Wirth's" and the terminology "5th Avenue Nylons" are disclaimed.
For Ladies' Hosiery Made in Whole of Nylon.
Claims use since Oct. 26, 1950.

Ser. No. 612,189. Valcort Hosiery Corporation, New York, N. Y. Filed Apr. 3, 1951.

Val de Chine

The words "de Chine" are disclaimed. Applicant claims ownership of Registration No. 396,336.
For Ladies' Hosiery.
Claims use since December 1940.

Ser. No. 612,240. Burlington Mills Corporation, Greensboro, N. C. Filed Apr. 5, 1951.

Merry Minx

For Women's Hosiery.
Claims use since Oct. 12, 1950.

Ser. No. 612,684. El Patio Sportswear, Inc., St. Louis, Mo. Filed Apr. 16, 1951.

El Patio

For Sports Apparel for Men and Boys—Namely, Slacks, Jackets, Sport Coats, and Ensembles of Sports Jackets and Slacks.
Claims use since September 1938.

Ser. No. 612,936. W. E. Stephens Mfg. Co. Inc., Nashville, Tenn. Filed Apr. 20, 1951. (Sec. 2f.)



The drawing is lined for red. Applicant claims ownership of Registrations Nos. 251,678 and 518,727.
For Work Shirts and Work Pants for Men and Boys and Dungarees for Men, Women, Misses, Boys, and Children.
Claims use since 1925.

Ser. No. 613,675. W. H. Miles Shoe Co., Inc., Richmond, Va. Filed May 9, 1951. (Sec. 2f.)

TEXAS STEER

Applicant claims ownership of Registration No. 135,285.
For Boots and Shoes for Men, Women, and Children, Made of Leather, Rubber, Fabric, Felt, and Combinations Thereof.
Claims use since May 1, 1912.

Ser. No. 613,909. Gerberich-Payne Shoe Co., Mount Joy, Pa. Filed May 16, 1951.

GeePees

For Boys' Shoes.
Claims use since May 1, 1951.

Ser. No. 614,956. Pachter Garment Co., Inc., Kansas City, Mo. Filed June 8, 1951.



The word "Original" is disclaimed.
For Ladies' Suits and Coats.
Claims use since Apr. 12, 1951.

Ser. No. 615,220. Alfred Hale Rubber Company, North Quincy, Mass. Filed June 15, 1951.

AIR-O-CREPE

The word "Crepe" is disclaimed.
For Footwear Outsoles of Rubber and Rubberous Composition.
Claims use since June 1, 1951.

Ser. No. 615,362. B. Altman & Co., New York, N. Y. Filed June 19, 1951.

Ponte Vecchio

For Women's Shoes.
Claims use since Apr. 1, 1951.

Ser. No. 615,761. Albert Confino, New York, N. Y. Filed June 27, 1951.

Confin-o-ty

The word "Ty" and the representation of the neckties are disclaimed.
For Neckties.
Claims use since April 1951.

Ser. No. 615,909. Stix, Baer and Fuller Company, St Louis, Mo. Filed June 29, 1951.

Marbrooke

For Men's and Boys' Hats.
Claims use since Mar. 15, 1951.

Ser. No. 616,315. The Goodyear Tire & Rubber Company, Akron, Ohio. Filed July 11, 1951.

NEOTEX

For Heels and Soles.
Claims use since June 22, 1951.

Ser. No. 616,694. Brilliant Brothers Co., Boston, Mass. Filed July 20, 1951.

KOOL-ITE

For Shoe Soles Made of Rubber Composition Material.
Claims use since May 21, 1951.

Ser. No. 617,076. Burlington Mills Corporation, Greensboro, N. C. Filed July 28, 1951.

NYLOWEAR

For Women's Hosiery.
Claims use since May 22, 1951.

Ser. No. 617,081. The Gottfried Company, Cleveland, Ohio. Filed July 28, 1951.

Seas-n-rite

For Women's and Misses' Suits.
Claims use since June 28, 1951.

Ser. No. 617,276. Bellmore Dress Co., Inc., New York, N. Y. Filed Aug. 3, 1951.

BURNSHIRE

For Ladies' Suits, Jackets and Dress Combinations, Jackets, and Outer Skirts.
Claims use since June 18, 1951.

Ser. No. 617,859. Stanley E. Bishop, doing business as The Ted Bishop Company, Boston, Mass. Filed Aug. 20, 1951.

Ted Bishop

The name is a signature of the applicant.
For Men's, Women's, and Children's Golf Shoes.
Claims use since Jan. 1, 1951.

Ser. No. 618,035. Edward E. Hanlon, doing business as Hanlon's, Jamaica Plain, Mass. Filed Aug. 24, 1951.

Angelo de Palo

The name "Angelo de Palo" is fanciful.
For Men's Leather Shoes.
Claims use since Jan. 28, 1949.

Ser. No. 618,305. Saks & Company, New York, N. Y. Filed Aug. 31, 1951.

Pesante

For Women's and Misses' Coats, Suits, Dresses, Jackets, Skirts, Blouses, and Slacks; and Men's Suits, Trousers, Jackets, and Robes.
Claims use since Aug. 2, 1951.

Ser. No. 618,818. Rosen & Son Dress Co., Inc., Boston, Mass. Filed Sept. 14, 1951.

TRAVELTONE

For Women's Dresses.
Claims use since June 25, 1951.

Ser. No. 618,882. Caprice of Hollywood, Los Angeles, Calif. Filed Sept. 17, 1951.

Enrapture

For Brassières.
Claims use since Sept. 10, 1951.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 368,341. Scolding Locks Corporation, Appleton, Wis. Filed Nov. 3, 1948.

GLAMOUR GUARDS



For Bob Pins.
Claims use since December 1947.

Ser. No. 613,994. D. Jay Products, Inc., Newark, N. J. Filed May 17, 1951.



The word "Brand" is disclaimed.
For Wires Covered With Fabric or Other Decorative Material Used by Florists.
Claims use since Jan. 10, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 589,780. Fluegelman-Riverdale, Inc., doing business as Riverdale Mfg. Co., New York, N. Y. Filed Dec. 22, 1949.

RIVERDALE

For Draperies—Namely, Window and Shower Curtains, Curtains for Doorways.
Claims use since 1929.

Ser. No. 595,754. Anglo Fabrics Company, Inc., New York, N. Y. Filed Apr. 15, 1950.

VEL-GLO

For Woolen and Worsted Piece Goods.
Claims use since Apr. 5, 1940.

Ser. No. 604,572. Cone Export and Commission Co., Inc., New York, N. Y. Filed Oct. 7, 1950. (Sec. 2f—Additional evidence.)

deeptone

Applicant claims ownership of Registrations Nos. 351,020 and 519,224.
For Textile Fabrics in the Piece—Namely, Denims.
Claims use since April 1936.

Ser. No. 604,967. Goldfarb Bros., New York, N. Y. Filed Oct. 16, 1950.



The representation of the Indian is fanciful.
For Cotton Fabrics.
Claims use since Aug. 10, 1950.

Ser. No. 606,169. Palm Beach Fabrics, Inc., Boynton Beach, Fla. Filed Nov. 9, 1950.



For Piece Goods of Cotton, Silk, Rayon, Wool, Synthetic Fibres, and Combinations Thereof.
Claims use since Sept. 19, 1949.

Ser. No. 608,943. Pedigree Fabrics, Inc., New York, N. Y. Filed Jan. 18, 1951.

PEDILITE

Applicant claims ownership of Registrations Nos. 379,483, 403,140, and others.
For Woven Fabric of Rayon or Nylon or Mixtures Thereof, Sold by the Piece.
Claims use since January 1940.

Ser. No. 608,944. Pedigree Fabrics, Inc., New York, N. Y. Filed Jan. 18, 1951.

peditrix

Applicant claims ownership of Registrations Nos. 379,483, 403,140, and others.
For Woven Fabric of Rayon or Nylon or Mixtures Thereof, Sold by the Piece.
Claims use since Nov. 6, 1950.

Ser. No. 609,016. M. J. Whittall Associates, Inc., Worcester, Mass. Filed Jan. 19, 1951. (Sec. 2f as to "Whittall.")

WHITTALL

HOLIDAY

Applicant claims ownership of Registrations Nos. 146,626, 95,027, and others.

For Textile Carpets and Rugs.

Claims use since Feb. 1, 1950, on the mark as shown; and since Jan. 2, 1886, as to "Whittall."

Ser. No. 609,154. M. J. Whittall Associates, Inc., Worcester, Mass. Filed Jan. 23, 1951. (Sec. 2f as to "Whittall.")

WHITTALL

GRANDELLE

Applicant claims ownership of Registrations Nos. 95,027, 146,626, and 503,407.

For Textile Carpets and Rugs.

Claims use since Jan. 9, 1950, as to the mark shown; and since Jan. 2, 1886, as to the mark "Whittall."

Ser. No. 611,732. Martin Weiner Corp., New York, N. Y., and Clifton, N. J. Filed Mar. 23, 1951.

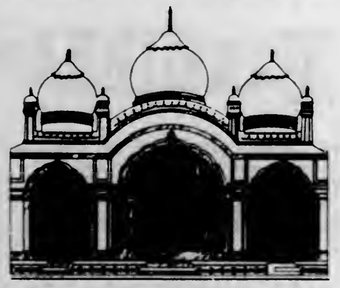
FUNCTIONAL FABRICS

The word "Fabrics" is disclaimed.

For Textile Fabrics in the Piece Composed of Rayon, Cotton, Wool, Silk, Linen, Nylon, and Combinations Thereof.

Claims use since Dec. 15, 1950.

Ser. No. 612,679. The Bombay Dyeing & Manufacturing Co. Ltd., Bombay, India. Filed Apr. 16, 1951.



The drawing is lined for shading.

For Cotton Piece Goods.

Claims use since 1938; and since Sept. 20, 1950, in commerce between foreign nations and the United States.

Ser. No. 613,759. Burlington Mills Corporation, Greensboro, N. C. Filed May 11, 1951.

FANTAFAILLE

Applicant claims ownership of Registration No. 441,958.

For Textile Fabrics in the Piece Made of Synthetic Fibers.

Claims use since Apr. 6, 1951.

Ser. No. 620,854. Oregon Worsted Company, Portland, Oreg. Filed Nov. 3, 1951.



The drawing is lined for shading. The words "Oregon Worsted Company" are disclaimed.

For Worsted Cloth.

Claims use since Sept. 18, 1951.

Ser. No. 620,955. Dan River Mills, Incorporated, Danville, Va. Filed Nov. 7, 1951. (Sec. 2f—Additional evidence.)

WRINKL-SHED

Applicant claims ownership of Registration No. 514,317.

For Piece Goods of Cotton, Rayon, or Mixtures Thereof.

Claims use since Sept. 24, 1947.

CLASS 43

THREAD AND YARN

Ser. No. 618,982. Clarence L. Meyers & Co., Philadelphia, Pa. Filed Sept. 19, 1951.

DUCLE'

For Yarn of a Crimp Nature for Knitted and Woven Fabrics, Hosiery, Underwear, Wearing Apparel, and Decorative Fabrics.

Claims use since Aug. 15, 1951.

Ser. No. 619,042. Spinnerin Yarn Co., Inc., South Hackensack, N. J. Filed Sept. 20, 1951.

Spinnere

Applicant claims ownership of Registrations Nos. 404,130, 407,338, and 504,466.

For Wool Yarns.

Claims use since Sept. 6, 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 586,768. Sears, Roebuck and Co., Chicago, Ill. Filed Oct. 24, 1949.

KENMORE

For Group A—Electric Sun Heat Lamps; Group B—Heating Pads (Therapeutic), Baby Bottle Sterilizers; Group C—Electrical Curling Irons; Group D—Hair Dryers; Group E—Massagers and Vaporizers for Therapeutic Purposes.

Claims use since Jan. 15, 1946.

Ser. No. 587,557. Emil Märki, Basel, Switzerland. Filed Nov. 9, 1949.

Pondus

Applicant claims ownership of Swiss Registration No. 127,369, dated Jan. 11, 1949, application filed Dec. 27, 1948.

For Materials for the Production of Dental Prothesis Plates—Namely, Powdered Tin, Amalgam, Gold and Silver, Powdered Synthetic Resins, Methacryl Acid Esters, Artificial Resins and Monomers.

Ser. No. 588,293. The Foregger Company, Inc., New York, N. Y. Filed Nov. 25, 1949. (Sec. 2f.)

GUEDEL

Applicant claims ownership of Registration No. 400,806.

For Laryngeal Airways, Laryngoscopes, Oxygen Meters, and Oxygen Tents.

Claims use since Aug. 1, 1925.

Ser. No. 593,313. Willson Products, Inc., Reading, Pa. Filed Mar. 2, 1950. (Sec. 2f.)

DOUBLE WILLSON

Applicant claims ownership of Registrations Nos. 108,119, 236,979, and others.

For Respirators in the Form of Face Pieces and Gas Masks for Industrial Safety.

Claims use since May 3, 1938.

Ser. No. 593,315. Willson Products, Inc., Reading, Pa. Filed Mar. 2, 1950. (Sec. 2f.)

WILLSON

Applicant claims ownership of Registration No. 108,119.

For Respirators in the Form of Face Pieces and Gas Masks for Industrial Safety.

Claims use since Aug. 1, 1915.

Ser. No. 596,355. Ortho Pharmaceutical Corporation, Raritan, N. J. Filed Apr. 26, 1950.

Ortho kit

The word "Kit" is disclaimed. Applicant claims ownership of Registrations Nos. 387,080, 390,141, and others.

For Bag Containing a Pessary and Vaginal Creams and Jellies.

Claims use since Oct. 29, 1949.

Ser. No. 605,346. Charlotte M. Baron, doing business as Professional Products Company, Toledo, Ohio. Filed Oct. 24, 1950.

XAID

For Colostomy Sets Which Can Be Used Also for Irrigation of a Running Sore, an Internal Organ Such as the Bladder, or Intestines, Infant's Umbelical Opening, and Other Openings in the Human Body.

Claims use since Nov. 7, 1949.

Ser. No. 612,733. Dundalk Products Company, Inc., Baltimore, Md. Filed Apr. 17, 1951.

PEN·SUL·DENT

For Anti-Biotic Dental Cement.

Claims use since March 1945.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 608,065. Grandpa Brands Company, doing business as Tom Collins Jr. Co., Cincinnati, Ohio. Filed Dec. 26, 1950.

Tom Collins Jr.

The name "Tom Collins Jr." is fanciful. Applicant claims ownership of Registration No. 307,903.

For Nonalcoholic, Maltless Beverages Sold as Soft Drinks.

Claims use since July 12, 1927.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 531,421. Armour and Company, Chicago, Ill. Filed Aug. 15, 1947.

COLUMBIA

For Bacon.

Claims use since 1909.

Ser. No. 546,348. Beck Provision Co., Buffalo, N. Y. Filed Jan. 7, 1948. (Sec. 2f.)

Beck's Flavor-rite

Applicant claims ownership of Registration No. 239,351.

For Bacon, Cooked Ham, Sweet Pickled Hams, Wieners, Pork Sausage, Polish Style Sausage, Bologna, Smoked Liver and Tongue Loaf.

Claims use since Sept. 1, 1926.

Ser. No. 562,946. Noody Products Company, Toledo, Ohio. Filed Aug. 6, 1948.

NOODY

For Noodles, and Soup Mix, and Macaroni.
Claims use since June 1926.

Ser. No. 564,415. Ward Baking Company, New York, N. Y. Filed Aug. 30, 1948. (Sec. 2f as to "Wards.")



The drawing is lined for the colors red and blue. The word "Bread" is disclaimed. Applicant claims ownership of Registrations Nos. 49,697, 91,625, and others.
For Bread.
Claims use since April 1945 as to the mark shown; and since July 1, 1911, as to mark "Wards."

Ser. No. 570,492. The Griffith Laboratories, Inc., Chicago, Ill. Filed Dec. 14, 1948. (Sec. 2f.)

PRAGUE

Applicant claims ownership of Registrations Nos. 213,483, 232,288, 326,877, and others.
For Salt Composition for Use in Curing Bacon, Whole Meats, and Ground Meats.
Claims use since Aug. 15, 1924.

Ser. No. 581,030. S. E. C. A. Società Esportazione Castagne e Affini, Cuneo, Italy. Filed June 24, 1949.



For Fresh and Dried Chestnuts, and Fresh Fruits and Vegetables.
Claims use since Jan. 1, 1946; and use in commerce between Italy and the United States on Jan. 1, 1946.

Ser. No. 581,299. Snow Crop Marketers, Inc., New York, N. Y., assignor to Clinton Foods Inc., New York, N. Y., a corporation of Delaware. Filed June 29, 1949. (Sec. 2f—Additional evidence.)

SnowCrop

Applicant claims ownership of Registration No. 421,993.
For Frozen Fruits; Frozen Fruit Juices—Namely, Orange Juice, Grapefruit Juice, and Orange and Grapefruit Juice; Frozen Vegetables; Frozen Fish Fillets; and Frozen Poultry.
Claims use since May 15, 1948, as to the mark shown; and since Aug. 9, 1945, as to the mark "Snow Crop."

Ser. No. 584,944. A. N. Stollwerck, Inc., Camden, N. J. Filed July 13, 1949. (Sec. 2f.)

A. N. Stollwerck Inc.

The name is that of the founder of the applicant company, now deceased. The abbreviation "Inc." is disclaimed.
For Baking Chocolate.
Claims use since 1930.

Ser. No. 586,095. Long Island Cauliflower Distributors, Inc., Riverhead, N. Y. Filed Oct. 11, 1949.



The representation of the map and the words "Green" and "Brand" are disclaimed.
For Fresh Vegetables, Specifically Cucumbers, Lima Beans, String Beans, Broccoli, Brussels Sprouts, Peas, Cabbage, Lettuce, Corn, and Cauliflower.
Claims use since June 1, 1947.

Ser. No. 588,817. Swift & Company, Chicago, Ill. Filed Dec. 5, 1949. (Sec. 2f.)

Essex

Applicant claims ownership of Registration No. 197,959.
For Sausage—Namely, Cervelat.
Claims use since 1913.

Ser. No. 591,741. Les Frigoriferes du Littoral, Ostend, Belgium. Filed Jan. 31, 1950.

Crop's

Applicant claims ownership of Belgian Registration No. 449, dated July 1, 1949.
For Frozen (Quick-Deep Frozen) Fish and Canned Fish.

Ser. No. 593,706. Bear State Packers, Inc., Sanger, Calif. Filed Mar. 10, 1950.

BEAR STATE

For Fresh Grapes and Fresh Deciduous Fruits.
Claims use since Feb. 28, 1950.

Ser. No. 597,191. Robert L. Berner Company, Chicago, Ill. Filed May 10, 1950.

Holiday

The word "Corn" is disclaimed.
For Combination Package of Raw Pop Corn and Popping Corn Oil.
Claims use since Apr. 28, 1950.

Ser. No. 597,674. Fisher Dairy and Cheese Company, doing business as Koneta Foods Company, Wapakoneta, Ohio. Filed May 18, 1950.



For Cheese.
Claims use since Mar. 1, 1950.

Ser. No. 601,535. Cerebos Limited, London, England. Filed Aug. 1, 1950.



Applicant claims ownership of British Registration No. 633,521, dated Dec. 12, 1944, and United States Registrations Nos. 81,503 and 81,782.
For Preparations Consisting of a Selected Variety of Flours Blended With Salt, Caramel and Vegetable Flavorings, in Powder Form, for Thickening, Coloring, and Seasoning Gravy.

Ser. No. 602,754. E. F. Drew & Co., Inc., New York, N. Y. Filed Aug. 25, 1950.

Hi-Fry

The word "Fry" is disclaimed.
For Hydrogenated Vegetable Shortening for Heavy Duty Frying.
Claims use since Oct. 5, 1949.

Ser. No. 607,292. Hoyt Brothers, Inc., Newark, N. J. Filed Dec. 5, 1950. (Sec. 2f.)

HOYT'S

The name "Hoyt" is the name of Mr. D. B. Hoyt president of the applicant's corporation. Applicant claims ownership of Registration No. 267,317.
For Lemon, Cocoanut, Butterscotch, and Chocolate Pie Crust Mix and Fillings, Coffee Cake Mix, Pudding Powder, Dumplings Mix, Milk Shake Mix, Food Flavorings—Namely, Lemon Extract, Vanillin Coumarin Compound, Imitation Maple Flavoring.
Claims use since Feb. 16, 1924.

Ser. No. 609,426. John Leslie Ward, doing business as Geff-A Company of America, Valparaiso, Ind. Filed Jan. 30, 1951.



For Ready Mixed Preparation To Be Made Into a Batter Into Which Frankfurters Are Dipped Preparatory To Being Deep Fried.
Claims use since Dec. 28, 1950.

Ser. No. 609,785. Co-Operative Dairies, Inc., Columbus, Miss. Filed Feb. 8, 1951.

Realicious

For Fluid Whipping Cream, Fluid Coffee Cream, Fluid Buttermilk, Fluid Pasteurized Milk, Fluid Pasteurized Homogenized Milk, and Fluid Chocolate Milk.
Claims use since July 1, 1935.

Ser. No. 610,204. Draper Brothers Inc., Frederica, Del. Filed Feb. 17, 1951.



The drawing is lined and stippled for shading.
For Canned Vegetables.
Claims use since Feb. 6, 1951.

Ser. No. 611,840. John Haefeli, doing business as Haefeli's Honey Farms, Monte Vista, Colo. Filed Mar. 27, 1951.



For Liquid Honey.
Claims use since May 1, 1950.

Ser. No. 612,494. The Great Atlantic and Pacific Tea Company, New York, N. Y. Filed Apr. 11, 1951.

ALLORO

The mark "Alloro" is the Italian equivalent for "laurel" or "bay tree."
For Spaghetti, Thin Spaghetti, Elbow Macaroni, Thin Macaroni, Macaroni Sea Shells, and Egg Bow Noodles.
Claims use since Mar. 14, 1951.

Ser. No. 617,232. Central Soya Company, Inc., Fort Wayne, Ind. Filed Aug. 2, 1951.

MIX-O-LAS

The word "Mix" is disclaimed.
For Livestock and Poultry Feeds.
Claims use since Oct. 26, 1950.

Ser. No. 619,498. Castroville Marketing Cooperative, Inc., Castroville, Calif. Filed Oct. 2, 1951.

PACIFIC MISS

For Fresh Vegetables.
Claims use since Sept. 6, 1951.

Ser. No. 620,540. Cascadian Fruit Shippers, Inc., Wenatchee, Wash. Filed Oct. 27, 1951.

Big River

For Fresh Deciduous Fruits.
Claims use since Sept. 19, 1951.

Ser. No. 621,532. A. E. Staley Manufacturing Company, Decatur, Ill. Filed Nov. 21, 1951.

COSO

Applicant claims ownership of Registration No. 293,391.
For Edible Vegetable Oils.
Claims use since Feb. 26, 1931.

CLASS 47

WINES

Ser. No. 511,011. De La Salle Institute, doing business as Mont La Salle Vineyards, Napa, Calif. Original filed, act of 1905, Oct. 17, 1946; amended to application under act of 1946, Principal Register, Feb. 20, 1948.



"Altar Wine" is disclaimed.
For Altar Wines.
Claims use since 1931.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 552,038. Cointreau Corporation, Pennington, N. J. Filed Mar. 16, 1948. (Sec. 2f.)



COINTREAU

Applicant claims ownership of Registrations Nos. 94,714, 328,869, and others.
For Apricot Liqueur, Blackberry Liqueur, Blackberry Flavored Brandy, Anisette, Kummel, Creme de Cacao, and Creme de Menthe.
Claims use since December 1934.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 587,170. American Wire Fabrics Corporation, New York, N. Y. Filed Nov. 2, 1949.

AMERI-GLAS

The term "Glas" is disclaimed.
For Plastic Sheeting Reinforced With Insect Wire Screening Used as a Substitute for Wire Mesh Glass.
Claims use since June 1, 1949.

Ser. No. 614,424. The Clarette Co. Inc., Los Angeles, Calif. Filed May 28, 1951.

Clarette

For Flexible Plastic Covers for Bowls and Small Household or Electrical Appliances.
Claims use since June 1, 1948.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 559,337. Sears, Roebuck and Co., Chicago, Ill. Filed June 16, 1948. (Sec. 2f—Additional evidence.)

SEARS *Approved*

Applicant claims ownership of Registration No. 419,548.
For Shaving Cream and Shampoo.
Claims use since January 1942.

Ser. No. 559,338. Sears, Roebuck and Co., Chicago, Ill. Filed June 16, 1948. (Sec. 2f—Additional evidence.)

SEARS *Approved*

The word "Approved" is disclaimed. Applicant claims ownership of Registrations Nos. 279,844, 306,826, and 417,390.
For Drugs and Sundries—Namely, Group A: Personal Deodorants, Hair Dyes, Body Powder, Bath Salts, Moth Balls and Flakes, Brilliantine, Insecticide, Liquid Corn Remover, Hand Lotion, Hand Cream, Depilatories, Talcum Powder, Hair Tonic, Hair Curling Fluid, Mouth Wash and Gargle, Water Glass (Egg Preservative), Disinfectants, Fumigants (Formaldehyde), Medicated Plasters; Group B: Vitamins and Minerals, Iron Tablets, Yeast Tablets, Thiamine Hydro-Chloride Tablets, Extract of Liver, Liver and Iron Tablets, Cod Liver Oil, Halibut Liver Oil, Oleum Percomorphum, Ascorbic Acid Tablets (Vitamin C), Wheat Germ Oil, Bicalcium Phosphate, Beef-Iron-and-Wine Tonic, Mineral Oil Laxative, Cascara Sagrada Tablets, Castor Oil, Glycerine Suppositories, Epsom Salts, Senna Leaves, Milk of Magnesia, Aspirin Tablets, Cathartic Tablets, Cough Expectorant, Camphorated Oil, Cough Syrup, Carbolic Salve, Spirits of Camphor, Asafetida Tablets, Nose Drops, Lithia Citrate Tablets, Anti-Acid Tablets and Powder, Deworming Oil, Soda Mint Tablets, Alkaline Granules, Antiseptic Douche Powder and Tablets, Tincture of Iodine, Magnesium Tricilicate, Sweet Oil, Collodial Aluminum Hydroxide, Powdered Alum, Rectal Ointment, Flaxseed, Psyllium Seed, Pepsin, Rectal Suppositories, Oil of Citronella, Aromatic Spirits of Ammonia, Phosphorus and Iron Compound, Glycerine, Charcoal and Soda Tablets, Zinc Oxide Ointment, Analgesic Balm, Calamine Lotion, Liniments, Witch Hazel, Eye Drops, Alcohol Rubbing Compound, Cocoa Butter, Tincture of Green Soap, Medicinal Face Creams, Quinine Sulphate Tablets, Pepsin Digestive Tablets, Spirits of Peppermint, Calomel Tablets, Skin Oil, Skin Lotion, Freckle Cream, Bleach Cream, Cream of Tartar, Silicate of Soda, Seidlitz Powder, Vapor Inhalant, Buchu Compound Pills, Compound Licorice Powder, Rhinitis Tablets, Caffein, Throat Tablets, Bronchial Tablets; Group C: Dental Cream; Group D: Tooth Powder; Group E: Liquid Dentrifice; Group F: Foot Powder, Shampoo; Group G: Foot Balm.
Claims use since Dec. 9, 1929.

Ser. No. 569,282. Jules Montenier, Inc., Chicago, Ill. Filed Nov. 23, 1948.



The container and the manner of using the same are disclaimed. The particular individual shown is Betsy Nan Hess, consent obtained and of record.
For Body Antiperspirant and Deodorant Preparations.
Claims use since Mar. 5, 1948.

Ser. No. 595,647. Amole, Incorporated, Tipp City, Ohio. Filed Apr. 13, 1950.

Chermotte

For Cream Deodorant, Hand Cream, and Hand Lotion.
Claims use since Aug. 31, 1949.

Ser. No. 597,573. Verle Andres Cosmetics Inc., Chicago, Ill. Filed May 17, 1950.



The name "Verle Andres" is the name of a living individual whose consent to register is of record.
For Skin Creams, Skin and Hair Lotions, Lipsticks, and Rouge.
Claims use since Oct. 17, 1946.

Ser. No. 610,627. Les Parfums de Dana, Inc., New York, N. Y. Filed Feb. 28, 1951.

MARQUISETTE

For Perfume, Cologne, Face Powder, Lipstick, Toilet Cream, Face Lotion, Hair Tonic, Brilliantine, Skin Lotion.
Claims use since Nov. 17, 1949.

Ser. No. 613,751. X-Pel Process Company, Inc., Mishawaka, Ind. Filed May 10, 1951.

X-PEL

Applicant claims ownership of Registration No. 280,109.
For Body Deodorants and Local Perspiration Astringents.
Claims use since July 15, 1930.

Ser. No. 614,014. Ocie Lee Scott, doing business as Ocie's Products, South Bend, Ind. Filed May 17, 1951.

OCIE'S

For Hair and Scalp Oil, and Pressing Oil.
Claims use since Feb. 3, 1951.

Ser. No. 616,661. Dorolan, Inc., Closter, N. J. Filed July 19, 1951.

DOROLAN

For Perfume.
Claims use since May 26, 1951.

Ser. No. 616,814. Campana Corporation, Batavia, Ill. Filed July 23, 1951. (Sec. 2f.)

Campana
Italian
Balm

Applicant claims ownership of Registrations Nos. 234,572, 234,573, and others.
For Lotions for the Skin.
Claims use since June 28, 1939.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 559,337. Sears, Roebuck and Co., Chicago, Ill. Filed June 16, 1948. (Classified in Class 51.) (Sec. 2f—Additional evidence.)
Applicant claims ownership of Registration No. 419,548.
See this serial number in Class 51 for goods and mark.
Claims use since January 1942.

Ser. No. 559,338. Sears, Roebuck and Co., Chicago, Ill. Filed June 16, 1948. (Classified in Class 51.) (Sec. 2f—Additional evidence.)
The word "Approved" is disclaimed.
Applicant claims ownership of Registrations Nos. 279,844, 306,826, and 417,390.
See this serial number in Class 51 for goods and mark.
Claims use since Dec. 9, 1929.

Ser. No. 587,920. Robert C. White Company, Philadelphia, Pa. Filed Nov. 16, 1949.

SAN-DEE

The drawing is lined for yellow.
For Detergent Having Sanitising and Disinfectant Properties Especially Adapted for Use in Cleaning, Disinfecting, and Sanitising Glassware, China, Silverware, Restaurant Equipment, and Dairy Equipment.
Claims use since Jan. 21, 1949.

Ser. No. 588,707. John H. Pruett, doing business as John H. Pruett Products Co., Houston, Tex. Filed Dec. 2, 1949.

Sleek

For Chemical Fluid for Cleaning and Polishing Any Hard, Smooth Surface.
Claims use since Oct. 17, 1949.

Ser. No. 594,928. Tracy-Burns Enterprises, Inc., Flint, Mich. Filed Mar. 30, 1950.

Kiss

For Cleaning Compound for General Use.
Claims use since Sept. 1, 1934.

Ser. No. 605,395. Alrose Chemical Company, Cranston, R. I. Filed Oct. 25, 1950.

ALROPON

Applicant claims ownership of Registrations Nos. 378,512, 378,513, and others.
For Surface Active Agent and Detergent Possessing Powerful Grease Emulsifying Action, for Use on Wool, Animal Skins, Fur and Hair, and for Other Industrial Uses.
Claims use since Feb. 16, 1946.

Ser. No. 606,807. Refined Products Corporation, Lyndhurst, N. J. Filed Nov. 22, 1950.

CAC-10

For Cation-Active Acid Detergent and Cleaning Composition.
Claims use since May 15, 1950.

Ser. No. 607,585. E. A. Gerlach Company, Inc., Eddington, Pa. Filed Dec. 12, 1950.

PINENIP

The word "Pine" is disclaimed.
For Detergent for Cleaning Porcelain, Tile, Terrazo, Linoleum Floors, Paints, Varnish Woodwork, Venetian Blinds, Silks, Nylon, Cotton, Wool, Rayon, Dishes, Pots, Pans, Glassware, and Automobiles and for Use in Washing Machines.
Claims use since Dec. 1, 1950.

Ser. No. 608,095. Edith L. Worthington, doing business as The Three Crowns Laboratories, Waterloo, Iowa. Filed Dec. 26, 1950.

VitaFoam

Applicant claims ownership of Registration No. 335,775.
For Shampoos.
Claims use since Nov. 20, 1934.

Ser. No. 610,771. West Disinfecting Company, Long Island City, N. Y. Filed Mar. 2, 1951.

RAPIDYNE

For Liquid Hand Cleaner.
Claims use since Dec. 27, 1950.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 599,760. The Grand Chapter of Phi Sigma Kappa, Chicago, Ill. Filed June 26, 1950. COLLECTIVE MARK.



Applicant claims ownership of Registration No. 222,080.
For Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership Therein.
Claims use since 1891.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 608,490. Leo P. Bott, Jr., Chicago, Ill. Filed Jan. 8, 1951.



SWEET HOME INDUSTRIES

The word "Industries" is disclaimed.
For Advertising and Sales Promotion Services—Namely, the Design, Development, and Preparation of Advertising Material for Manufacturers of Food Products, Needlework, Toys, Novelties, and Household Commodities.
Claims use since Aug. 29, 1950.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 585,719. Phelps-Terkel, Inc., Los Angeles, Calif. Filed Oct. 3, 1949.

RED HOUSE

For Custom Tailoring, Altering and Repairing Men's and Women's Clothing.
Claims use since Aug. 10, 1949.

Ser. No. 589,929. Chas. E. Vincel Pontiac Co., Inc., St. Louis, Mo. Filed Dec. 24, 1949.



For Service, Repair, Maintenance, and Towing of Automobiles and Installation of Repair Parts.
Claims use since Sept. 15, 1949.

CLASS 104

COMMUNICATION

Ser. No. 594,086. WJW, Inc., Cleveland, Ohio. Filed Mar. 16, 1950.



The radio call letters "WJW" are disclaimed.
For Radio Program Broadcasting Services.
Claims use since May 1946.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 546,007. J. F. Martin Cartage Co., Chicago, Ill. Filed Jan. 2, 1948.

J. F. MARTIN CARTAGE CO.

J. F. Martin is the president of the applicant corporation. The notation "J. F. Martin Cartage Co." is disclaimed.

For Transportation of Freight by Automobile Truck.

Claims use since Nov. 28, 1947.

Ser. No. 589,929. Chas. E. Vincel Pontiac Co., Inc., St. Louis, Mo. Filed Dec. 24, 1949. (Classified in Class 103.)

See this serial number in Class 103 for goods and mark.

Claims use since Sept. 15, 1949.

Ser. No. 610,389. Swift Trucking Corp., Brooklyn, N. Y. Filed Feb. 21, 1951.

SWIFT

The word "Swift" is disclaimed.

For Transporting Freight by Truck.

Claims use since July 1, 1950.

Ser. No. 615,151. H. E. Brinkerhoff and Sons Transportation Co., Harrisburg, Pa. Filed June 14, 1951.

A-Z Complete MOVING SERVICE

The words "Complete Moving Service" is disclaimed.

For Moving, Transfer, and Storage of All Types of Household and Office Furniture and Equipment, the Moving Thereof Being Accomplished by Motor Van.

Claims use since Jan. 15, 1951.

Ser. No. 615,155. Chicago & Southern Air Lines, Inc., Memphis, Tenn. Filed June 14, 1951.

C&S

For Air Transportation of Passengers, Mail, and Express.

Claims use since Apr. 1, 1951.

CLASS 106

MATERIAL TREATMENT

Ser. No. 585,719. Phelps Terkel, Inc., Los Angeles, Calif. Filed Oct. 3, 1949. (Classified in Class 103.)

See this serial number in Class 103 for goods and mark.

Claims use since Aug. 10, 1949.

Ser. No. 595,284. Shell Chemical Corporation, New York, N. Y. Filed Apr. 5, 1950.

Nitrogation Service

The word "Service" is disclaimed. Applicant claims ownership of Registrations Nos. 389,067 and 419,147.

For Fertilizer Distribution Service—Namely, Injecting Ammonia Into Irrigation Water in Controlled Amounts Whereby Ammonia Is Distributed to the Soil Surrounding Vegetation.

Claims use since Jan. 25, 1950.

Ser. No. 619,070. Bradford Dyeing Association (U. S. A.), Westerly, R. I., and New York, N. Y. Filed Sept. 21, 1951.

BRADFORD BRADPELA

The word "Bradford" is disclaimed. Applicant claims ownership of Registrations Nos. 188,786, 191,136, and others.

For Services Rendered Manufacturers of All Kinds of Fabric Including Cotton, Rayon, Acetate, Nylon, Orlon, Dacron, Acrilon, and Mixtures of These Various Fibers, and Fabrics Containing Part Wool or Mohair, Which Services Consist of Rendering Fabrics Crease Resistant, Stain Resistant, and Water Repellent.

Claims use since July 23, 1951.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 577,340. Elsie Frisbie Norman, doing business as Kinder Kraft, Kansas City, Mo. Filed Apr. 18, 1949. (Sec. 2f.)

KINDER KRAFT SCHOOL

The word "School" is disclaimed.

For Educational Services for Children of the Age Groups of Nursery School, Kindergarten, and First Grade.

Claims use since September 1933.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,676. Men's, Boys', and Women's Hats and Caps. Frank H. Chamberlain Co. Inc., Boston, Mass. Filed Mar. 20, 1947, Serial No. 519,316. Published Nov. 18, 1947. Class 39.

ACT OF 1946, PRINCIPAL REGISTER

556,817. Paper File Pockets and Paper Wallets. Quality Park Envelope Company, St. Paul, Minn.
Filed July 9, 1947, Serial No. 528,229. Published Apr. 3, 1951. Class 37.

556,818. Kits Consisting of Grooved Phonograph Records and Pictorial Illustrations. Conlon-Moore Corporation, Conlon Division, Joliet and Chicago, Ill.
Filed Sept. 8, 1947, Serial No. 533,703. Published Jan. 15, 1952. Class 36.

556,819. Candy. Harvey C. Fox, doing business as Fox Candy Company, Cleveland, Ohio.
Filed Sept. 19, 1947, Serial No. 535,018. Published Jan. 8, 1952. Class 46.

556,820. Canned Fruits. Flotill Products, Incorporated, Stockton, Calif.
Filed Oct. 6, 1947, Serial No. 536,884. Published Dec. 25, 1951. Class 46.

556,821. Pressure Cookers and Pressure Canners. National Pressure Cooker Company, Eau Claire, Wis.
Filed Oct. 30, 1947, Serial No. 539,552. Published Jan. 15, 1952. Class 13.

556,822. Thread-Cutting Dies. Nye Tool Company, Chicago, Ill.
Filed Nov. 6, 1947, Serial No. 540,307. Published Nov. 6, 1951. Class 23.

556,823. Thermal Controlled Wall and Ceiling Mounted Fire Extinguisher Units, Hand-Operated Fire Extinguishers. Red Comet Incorporated, Littleton, Colo.
Filed Nov. 12, 1947, Serial No. 540,872. Published Dec. 4, 1951. Class 23.

556,824. Jewelry for Personal Adornment, Not Including Watches, Etc. Excell Manufacturing Company, Providence, R. I.
Filed Nov. 18, 1947, Serial No. 541,528. Published Apr. 4, 1950. Class 28.

556,825. Jewelry for Personal Adornment, Not Including Watches, Etc. Excell Manufacturing Company, Providence, R. I.
Filed Nov. 18, 1947, Serial No. 541,529. Published Apr. 4, 1950. Class 28.

556,826. Internal Combustion Motors. Wolseley Motors Limited, Birmingham, Warwickshire, England.
Filed Dec. 20, 1947, Serial No. 545,066. Published Nov. 20, 1951. Class 23.

556,827. Drugs, Pharmaceuticals, and Related Items. The Rabin Company, Los Angeles, Calif.
Filed Jan. 13, 1948, Serial No. 546,874. Published May 8, 1951. Class 18.

556,828. Hard Tread Furniture Caster Wheels. Faultless Caster Corporation, Evansville, Ind.
Filed Jan. 30, 1948, Serial No. 548,353. Published Aug. 14, 1951. Class 13.

556,829. Corn Syrup, Corn Oil for Use in Salads and Cooking, Etc. Clinton Industries, Inc., Clinton, Iowa, now by change of name Clinton Foods Inc., a corporation of Delaware.
Filed Feb. 18, 1948, Serial No. 550,023. Published Jan. 8, 1952. Class 46.

556,830. Crude Turpentines, Rosins, Pine Tars, Vegetable Tars, Pine Tar Oils, Vegetable Pine Tar Oils, Pine Pitches, Vegetable Pitches, and Pine Oils. The White Sea & Baltic Company P. & I. Danischewsky Ltd., London, England.
Filed Mar. 12, 1948, Serial No. 551,838. Published Dec. 25, 1951. Class 1.

556,831. Self Polishing Floor Dressing. Service Industries, Philadelphia, Pa.
Filed Mar. 18, 1948, Serial No. 552,277. Published Jan. 1, 1952. Class 4.

556,832. Hypo-Allergenic Whole Milk. Wyeth Incorporated, Philadelphia, Pa.
Filed Mar. 19, 1948, Serial No. 552,522. Published Dec. 4, 1951. Class 46.

556,833. Lumber. Clear Fir Sales Company, Eugene, Oreg.
Filed Mar. 30, 1948, Serial No. 553,344. Published Nov. 27, 1951. Class 12.

556,834. Complete Power Transmission Units for Motor Vehicles and Parts Thereof—Namely, Transmission Housings, Shafts, Universal Joints, Gears, Gear Shift Couplings, and Hand Operated Gear Shift Selector Levels. General Motors Corporation, Detroit, Mich.
Filed Apr. 8, 1948, Serial No. 554,107. Published Jan. 1, 1952. Class 23.

556,835. Women's, Girls', and Children's One and Two-Piece Pajama Sets and Nightgowns Made of Cotton, Rayon, Nylon, or Combinations Thereof. Annette Kaufman, Woodbridge, N. J.
Filed May 14, 1948, Serial No. 557,046. Published Mar. 7, 1950. Class 39.

556,836. Sterilized Milk, Concentrated Milk, Condensed Milk, Dried Milk, Evaporated Milk, Evaporated Cream, Sterilized Cream, Butter, Milk Powder, and Milk for Infants. Berneralpen Milchgesellschaft, trading also as Societe Laitiere des Alpes Bernoises and as Bernese Alps Milk Co., Stalden, Switzerland.
Filed May 20, 1948, Serial No. 557,427. Published Dec. 25, 1951. Class 46.

556,837. Hardware—Namely, Cover Plates for Metal Boxes, and Cable Clamps. All-Steel Equipment Inc., Aurora, Ill.
Filed June 4, 1948, Serial No. 558,432. Published Jan. 15, 1952. Class 13.

556,838. Tea, Coffee, Cocoa, and Chocolate. R. Twining & Company Limited, London, England.
Filed June 7, 1948, Serial No. 558,672. Published Dec. 25, 1951. Class 46.

556,839. Lubricating Oils. The Kendall Refining Company, Bradford, Pa.
Filed July 9, 1948, Serial No. 561,020. Published Nov. 27, 1951. Class 15.

556,840. Insecticides and Remedies for Treatment of Skin Disorders for Dogs and Other Animals Other Than Man; Dip for the Destruction of Fleas, Lice, Ticks and Other External Parasites, and for the Treatment of Skin Troubles Caused by Parasites on Dogs and Other Animals Other Than Man; Etc. Fritz W. Nuernberg, doing business as The Hilo Company, Norwalk, Conn.
Filed July 17, 1948, Serial No. 561,636. Published Dec. 11, 1951. Class 18.

556,841. Plasterboard. United States Gypsum Company, Chicago, Ill.
Filed Aug. 4, 1948, Serial No. 562,812. Published Jan. 1, 1952. Class 12.

556,842. Coal. Binkley Coal Company, Chicago, Ill.
Filed Aug. 17, 1948, Serial No. 563,599. Published Dec. 25, 1951. Class 1.

556,843. Accordions, Banjos, Bugles, Etc. St. Louis Music Supply Co., St. Louis, Mo.
Filed Dec. 29, 1948, Serial No. 571,294. Published Jan. 15, 1952. Class 36.

556,844. Musical Instruments—Namely, Clarinets. Societe de Faconnage et de Commerce, Velaines, France.
Filed Apr. 27, 1949, Serial No. 573,692. Published Jan. 15, 1952. Class 36.

556,845. Medicinal Hair Tonic and Preparation for Treating Diseases of the Skin, Such as Dandruff, Acne, Ringworm, Psoriasis, and Alopecia. Hamer, Hamer & Hamer, Orlando, Fla.
Filed Feb. 17, 1949, Serial No. 574,032. Published Dec. 18, 1951. Class 18.

556,846. Cleansing Cream, Night Cream, Hand Cream, Hand Lotion, Perfume, Face Powder, Lipstick, and Brilliantine. Consolidated Cosmetics, Chicago, Ill.
Filed Feb. 19, 1949, Serial No. 574,134. Published Dec. 25, 1951. Class 51.

556,847. Backflow Prevention Valves for Large Potable Water Supply Lines. Backflow Engineering & Equipment Co., Los Angeles, Calif.
Filed Mar. 19, 1949, Serial No. 575,692. Published Jan. 15, 1952. Class 13.

556,848. Plastic Handles for Cutlery. Adams Plastics Co., Inc., Holyoke, Mass.
Filed Mar. 22, 1949, Serial No. 575,828. Published Dec. 18, 1951. Class 23.

556,849. Manually Operated Tools for Lifting and Lowering Wheels, With Tires Mounted Thereon, in Applying Such Wheels to and Removing Such Wheels From Motor Vehicle Axles. The Wheel Lifter Co., Tulsa, Okla.
Filed Apr. 4, 1949, Serial No. 576,602. Published Nov. 20, 1951. Class 23.

556,850. Toothpaste Having Medicinal Characteristics. Laboratoires Goupil-Savenor, Cachan, France.
Filed Apr. 5, 1949, Serial No. 576,646. Published Dec. 25, 1951. Class 51.

556,851. Spray Dryers and Parts Thereof. Whiting Corporation, Harvey, Ill.
Filed Apr. 11, 1949, Serial No. 576,943. Published Jan. 1, 1952. Class 23.

556,852. Face Powder, Lipstick, Rouge, Softening and Cleansing Creams, Cream Pastes for Imparting Color to the Skin, Make-Up for the Eyes, and Hair Lacquer. Societe Lancôme, S. A., Paris, France.
Filed Mar. 11, 1949, Serial No. 577,004. Published Dec. 25, 1951. Class 51.

556,853. Perfume. Edouard Perfume Company, Inc., Cleveland, Ohio.
Filed Apr. 22, 1949, Serial No. 577,527. Published May 29, 1951. Class 51.

556,854. Metal Working Machines, Sometimes Called Headers, Cold Headers, Reheaders, Ball Headers, Bullet Slug Machines, Bolt Head Trimmers, Thread Rollers, Screw Slotters, and Cold Press Nut Machines. The National Machinery Company, Tiffin, Ohio.
Filed May 12, 1949, Serial No. 578,701. Published Jan. 1, 1952. Class 23.

556,855. Table and Kitchen Glassware. The Quaker Oats Company, Chicago, Ill.
Filed May 18, 1949, Serial No. 579,057. Published Dec. 25, 1951. Class 33.

556,856. Fired Ceramic Shapes, Formed From Bodies Containing Zirconium by Extruding, Molding, Casting, Pressing, Cutting, or Machining, in Forms Such as Rods, Tubes, Blocks, and Sheets, Having Use in the Industrial Arts. American Lava Corporation, Chattanooga, Tenn.
Filed June 9, 1949, Serial No. 580,174. Published Jan. 1, 1952. Class 30.

556,857. Work Gloves of Fabric. Wells Lamont Corporation, Chicago, Ill.
Filed June 13, 1949, Serial No. 580,388. Published Jan. 8, 1952. Class 39.

556,858. Candy Mints. Norris Inc., Atlanta, Ga.
Filed June 14, 1949, Serial No. 580,421. Published Nov. 27, 1951. Class 46.

556,859. Cuticle Removing Preparations and Nail Polish. Lillian Wallace, Inc., Chicago, Ill., assignor to The Pharma-Craft Corporation, New York, N. Y., a corporation.
Filed June 28, 1949, Serial No. 581,222. Published Mar. 27, 1951. Class 51.

556,860. Cotton Piece Goods. Brand & Oppenheimer, Incorporated, New York, N. Y.
Filed June 30, 1949, Serial No. 581,315. Published Dec. 25, 1951. Class 42.

556,861. Metal Hollow Ware for Use on the Top of Stoves—Namely, Frying Pans, Etc. The Everedy Company, Frederick, Md.
Filed July 12, 1949, Serial No. 581,803. Published Jan. 8, 1952. Class 13.

556,862. Cushioned Glides Used on Furniture, Electrical Appliances and the Like To Prevent the Marring of Polished Surfaces. T. R. Brawley Felt Co. Inc., Brooklyn, N. Y.
Filed July 15, 1949, Serial No. 582,019. Published Jan. 8, 1952. Class 13.

556,863. Sash Pulleys. The Consolidated Iron-Steel Mfg. Co., Cleveland, Ohio.
Filed July 27, 1949, Serial No. 582,559. Published Jan. 8, 1952. Class 13.

556,864. Automobile, Bus, and Truck Servicing Lifts; Elevators for Passengers and Freight; Lumber Lifts; Hydraulic Loading Platforms; Hydraulic Pumps for Lifts and Elevators; and Parts Thereof. Rotary Lift Company, Memphis, Tenn.
Filed Aug. 17, 1949, Serial No. 583,619. Published Nov. 20, 1951. Class 23.

556,865. Supplementary Fuel for Internal Combustion Engines, Consisting of Water, Alcohol, Tetraethyl Lead, and a Corrosion Inhibiting Dispersant. Thompson Products, Inc., Cleveland, Ohio.
Filed Aug. 25, 1949, Serial No. 584,028. Published Nov. 20, 1951. Class 15.

556,866. Women's Hosiery. Gotham Hosiery Company, Inc., New York, N. Y.
Filed Sept. 13, 1949, Serial No. 584,762. Published June 5, 1951. Class 39.

556,867. Women's Hosiery. Gotham Hosiery Company, Inc., New York, N. Y.
Filed Sept. 13, 1949, Serial No. 584,763. Published June 5, 1951. Class 39.

556,868. Wind Instruments—Namely, Accordions. N. Frontalini & Figli, Numana, Italy.
Filed Aug. 5, 1949, Serial No. 584,949. Published Jan. 15, 1952. Class 36.

556,869. Mouthwashes Used as Dentifrices. Extraction & Chemical Company Inc., New York, N. Y.
Filed Oct. 7, 1949, Serial No. 585,919. Published Jan. 1, 1952. Class 51.

556,870. Corner Shields—Namely, Flexible Pieces of Metal With Attaching Means, Etc. Ace Specialty Manufacturing Company, Minneapolis, Minn.
Filed Dec. 7, 1949, Serial No. 588,924. Published Jan. 8, 1952. Class 13.

556,871. Pianos. Winter & Company, Inc., New York, N. Y.
Filed Dec. 20, 1949, Serial No. 589,692. Published Jan. 15, 1952. Class 36.

556,872. Paper Pads and Paper Paddings, Paper Wadding Pads and Paper Moulds, Paper Packing Pads, Mailing and Correspondence Envelopes, Paper Candy Paddings, Facial Tissues Made of Paper and Cleansing Tissue, Paper Napkins, Toilet Paper, Paper Coasters and Paper Doilies. John H. Willig, doing business as Celwa Products Co., New York, N. Y.
Filed Dec. 22, 1949, Serial No. 589,819. Published Jan. 8, 1952. Class 37.

556,873. Household Hand Tools—Namely, Fork and Spoon Tongs, Etc. John Clark Brown, Belleville, N. J.
Filed Jan. 7, 1950, Serial No. 590,486. Published Dec. 11, 1951. Class 23.

556,874. Chinaware and Earthenware—Namely, Mugs, Plates, and Planters. B. H. Karmen, doing business under the name Palm Springs Ceramics, Banning, Calif.
Filed Jan. 9, 1950, Serial No. 590,553. Published Nov. 27, 1951. Class 30.

556,875. Refined, Semirefined, and Unrefined Oils, Made From Petroleum, Both With and Without Admixture of Animal, Vegetable, or Mineral Oils, for Illuminating, Burning, Power, Fuel, and Lubricating Purposes, and Non-Galling Thread Lubricants. Humble Oil & Refining Company, Houston, Tex.
Filed Jan. 10, 1950, Serial No. 590,597. Published Nov. 27, 1951. Class 15.

556,876. Articles of China and Hand Painted China Not Ornamented With Precious Metals—Namely, Table Dinnerware, Flower Pots, Jars, Jardinieres, Teapots, Pitchers, and Vases. Baker Imperial Co., Inc., New York, N. Y.
Filed Jan. 13, 1950, Serial No. 590,793. Published Dec. 25, 1951. Class 30.

556,877. Plaster Aggregate. Gregg Lumber Company, Grand Rapids, Mich.
Filed Jan. 23, 1950, Serial No. 591,294. Published Jan. 1, 1952. Class 12.

556,878. Metal Sheathed Rigid Exterior Insulating Building Siding Panels. Mastic Asphalt Corporation, South Bend, Ind.
Filed Jan. 31, 1950, Serial No. 591,744. Published Jan. 1, 1952. Class 12.

556,879. Latches, Locks, and Parts Thereof and Chain Door Fasteners. Penn Hardware Company, Reading, Pa.
Filed Feb. 13, 1950, Serial No. 592,384. Published Jan. 15, 1952. Class 25.

556,880. Latches, Locks, and Parts Thereof and Chain Door Fasteners. Penn Hardware Company, Reading, Pa.
Filed Feb. 13, 1950, Serial No. 592,385. Published Jan. 15, 1952. Class 25.

556,881. Mint Candies. Norris Inc., Atlanta, Ga.
Filed Jan. 9, 1950, Serial No. 593,039. Published Nov. 27, 1951. Class 46.

556,882. Soda Fountains, Beverage Dispensing Machines, and Machines for Carbonating Beverages, and Parts Thereof. The Bastian-Blessing Company, Chicago, Ill.
Filed Feb. 25, 1950, Serial No. 593,051. Published Jan. 1, 1952. Class 23.

556,883. Clocks and Watches. Alexander Kaatz, doing business as Boston Clock Service, Boston, Mass.
Filed Feb. 28, 1950, Serial No. 593,178. Published Nov. 27, 1951. Class 27.

556,884. Candied Fruit Peel and Fruit for Inclusion in Cakes and Other Baked Goods and for Toppings Therefor and Icings for Pastries, Tarts, Cakes, Creams, and Meringues, Consisting of Sugar, Fruit, and Agar-Agar. Adolf J. Mainzer, Inc., New York and Long Island City, N. Y.
Filed Feb. 28, 1950, Serial No. 593,182. Published Jan. 8, 1952. Class 46.

556,885. Typewriter Ribbons. F. S. Webster Company, Cambridge, Mass.
Filed Mar. 2, 1950, Serial No. 593,307. Published Nov. 6, 1951. Class 11.

556,886. Visual Idea Plotting Guide for Artists, Etc. Robert A. Haas, Philadelphia, Pa.
Filed Mar. 16, 1950, Serial No. 594,045. Published Dec. 4, 1951. Class 50.

556,887. Natural and Synthetic Essential Oils, Aromatic Chemicals From Natural or Other Sources, Used as a Flavoring Material or an Ingredient in Medicines and Pharmaceutical Preparations. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Mar. 18, 1950, Serial No. 594,210. Published Nov. 27, 1951. Class 18.

556,888. Natural and Synthetic Essential Oils, Aromatic Chemicals From Natural or Other Sources, Used as a Flavoring Material or an Ingredient in Medicines and Pharmaceutical Preparations. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Mar. 18, 1950, Serial No. 594,211. Published Nov. 27, 1951. Class 18.

556,889. Fluids Used as a Fluid Coupling for the Transmission of Power in Motor Driven Devices, Said Fluids Having a Mineral Oil Base. The Bell Company, Inc., Chicago, Ill.
Filed Mar. 29, 1950, Serial No. 594,826. Published Nov. 20, 1951. Class 15.

556,890. Perfume. Parfums Evyan Inc., New York, N. Y.
Filed Mar. 30, 1950, Serial No. 594,919. Published Nov. 27, 1951. Class 51.

556,891. Concrete Truck Mixers, Carriers and Agitators. The T. L. Smith Company, Milwaukee, Wis.
Filed Apr. 8, 1950, Serial No. 595,472. Published Jan. 1, 1952. Class 23.

556,892. Hair Tinting and Coloring Preparations. Clairol Incorporated, Stamford, Conn.
Filed Apr. 15, 1950, Serial No. 595,761. Published Dec. 25, 1951. Class 51.

556,893. Cosmetic—Namely, an All Purpose Cream, a Hand and Body Lotion, and a Body Deodorant. The Jamalyn Laboratories, Inc., Worcester, Mass.
Filed May 5, 1950, Serial No. 596,924. Published Nov. 27, 1951. Class 51.

556,894. Wire Rope Fittings—Vis., Hooks, Sockets, Eyes, Clevises, Hitches, and Ferrules. Pacific Car and Foundry Company, Renton, Wash.
Filed May 16, 1950, Serial No. 597,540. Published Jan. 15, 1952. Class 13.

556,895. Portland Cement. Skånska Cementaktiebolaget, Malmo, Sweden.
Filed May 16, 1950, Serial No. 597,549. Published Jan. 1, 1952. Class 12.

556,896. Canned Crushed Pineapple, Canned Fine Cut Pineapple, and Canned Sliced Pineapple. The John G. Paton Company, Inc., New York, N. Y.
Filed May 18, 1950, Serial No. 597,695. Published Jan. 8, 1952. Class 46.

556,897. Horticultural Peat Moss. The Stadler Fertilizer Company, Cleveland, Ohio.
Filed Mar. 31, 1950, Serial No. 597,858. Published Jan. 1, 1952. Class 10.

556,898. Rayon Piece Goods. Copley Fabrics, Inc., New York, N. Y.
Filed June 2, 1950, Serial No. 598,455. Published Jan. 8, 1952. Class 42.

556,899. Metallic Closure Rings for Barrels, Kegs, Buckets, and Similar Receptacles. The Ohio Corrugating Company, Warren, Ohio.
Filed June 2, 1950, Serial No. 598,496. Published Jan. 8, 1952. Class 13.

556,900. Culinary Tools—Namely, Peeling and Paring Knives, Butcher Knives, Slicing Knives and Carving Knives. Ekco Products Company, Chicago, Ill.
Filed June 7, 1950, Serial No. 598,718. Published Jan. 1, 1952. Class 23.

556,901. Solidified Deodorant for Personal Use. John Hudson Moore, Inc., New York, N. Y., now by merger The Lambert Company, a corporation of Delaware.
Filed June 23, 1950, Serial No. 599,644. Published Dec. 25, 1951. Class 51.

556,902. Collapsible Cardboard Cartons Suitable for Packaging Sliced Bacon and Other Foods for Display Purposes. Marathon Corporation, Rothschild, Wis.
Filed June 29, 1950, Serial No. 599,959. Published Jan. 8, 1952. Class 2.

556,903. Machines Used in Textile Manufacture—Namely, Waste Receivers, Centrifugal Vacuum Pumps and Blowers, Dyeing Machines, Hand Knotters, Stripping Mechanism for Carding Machines, and Parts of the Foregoing. Abington Textile Machinery Works, North Abington, Mass.
Filed July 14, 1950, Serial No. 600,640. Published Jan. 1, 1952. Class 23.

556,904. Furred Skins. Wagner Fur, Inc., New York, N. Y.
Filed July 14, 1950, Serial No. 600,710. Published Jan. 8, 1952. Class 1.

556,905. Furred Skins. Wagner Fur, Inc., New York, N. Y.
Filed July 14, 1950, Serial No. 600,711. Published Jan. 8, 1952. Class 1.

556,906. Jewelry for Personal Wear, Not Including Watches—Namely, Lockets, Religious Crosses, Pendants, Anklets, Neck Chains, and Jewelry Findings. Concord Manufacturing Corporation, Providence, R. I.
Filed July 22, 1950, Serial No. 601,095. Published Jan. 1, 1952. Class 28.

556,907. Slag Block and Slag Brick. John A. Mercier Brick Co., Dearborn, Mich.
Filed July 26, 1950, Serial No. 601,269. Published Jan. 1, 1952. Class 12.

556,908. Highly Diastatic Malt Used as an Ingredient for Foods. C. J. Patterson Company, Kansas City, Mo.
Filed July 26, 1950, Serial No. 601,275. Published Jan. 8, 1952. Class 46.

556,909. Lumber Per Se—Namely, Wood Dimension Stock; Timber, Dressed and Partly Dressed, and Sawed Timber. Plantation Wood (Lancing) Limited, Lancing, England.
Filed Aug. 9, 1950, Serial No. 601,999. Published Jan. 1, 1952. Class 12.

556,910. Cigarettes. Brown & Williamson Tobacco Corporation, Louisville, Ky.
Filed Sept. 20, 1950, Serial No. 603,758. Published Jan. 8, 1952. Class 17.

556,911. Cigarettes. Brown & Williamson Tobacco Corporation, Louisville, Ky.
Filed Sept. 20, 1950, Serial No. 603,761. Published Jan. 8, 1952. Class 17.

556,912. Cheese. Riksost S. M. R:s Ostlagerforening U. P. A., Stockholm, Sweden.
Filed Sept. 20, 1950, Serial No. 603,816. Published Dec. 4, 1951. Class 46.

556,913. Seeds—Namely, Field and Hybrid Seed Corn. Peterson-Biddick Company, Wadena, Minn.
Filed Sept. 21, 1950, Serial No. 603,852. Published Jan. 8, 1952. Class 1.

556,914. Portable Grain Elevators. Ralph L. Kooiker, doing business as The Kooiker Manufacturing Company, Hull, Iowa.
Filed Oct. 2, 1950, Serial No. 604,307. Published Jan. 1, 1952. Class 23.

556,915. Mechanical and Hand Operated Tools Incorporating Honing and Whetting Stones and Other Sharpening Members for Sharpening, Honing, and Conditioning Knives, Cleavers, Scissors, and Razors. Alvin Murchison, Brooklyn, N. Y., assignor to Bessie F. Murchison, Brooklyn, N. Y.
Filed Oct. 3, 1950, Serial No. 604,380. Published Nov. 6, 1951. Class 23.

556,916. Faucet Adapter Consisting of an Attachment for Faucets, Etc. Stanley Home Products, Inc., Westfield, Mass.
Filed Oct. 3, 1950, Serial No. 604,399. Published Jan. 15, 1952. Class 13.

556,917. Motor Oil. Automobile Dealers Associates, Inc., Chicago, Ill.
Filed Oct. 14, 1950, Serial No. 604,895. Published Nov. 27, 1951. Class 15.

556,918. Threads for Use in the Fishing Industry and for Commercial or Industrial Purposes. Drummondville Cotton Company, Limited, Montreal, Quebec, Canada.
Filed Oct. 16, 1950, Serial No. 604,959. Published Jan. 8, 1952. Class 43.

556,919. Chain and Clip Ornamented With Precious Metal for Attaching a Pen or Pencil to the Base of a Telephone Instrument. Klik Enterprises, Inc., New York, N. Y.
Filed Oct. 18, 1950, Serial No. 605,099. Published Jan. 15, 1952. Class 28.

556,920. Chain and Clip Ornamented With Precious Metal for Attaching a Pen or Pencil to the Base of a Telephone Instrument. Klik Enterprises, Inc., New York, N. Y.
Filed Oct. 19, 1950, Serial No. 605,164. Published Dec. 25, 1951. Class 28.

556,921. Natural or Synthetic Essential Oils, Aromatic Chemicals From Natural or Other Sources Used as a Base or an Ingredient in Cosmetics and Toilet Preparations. Firmenich Incorporated, New York, N. Y.
Filed Oct. 27, 1950, Serial No. 605,476. Published Nov. 27, 1951. Class 51.

556,922. Products for Use in the Control of Screw Worms and Fleece Worms. California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif.
Filed Oct. 31, 1950, Serial No. 605,628. Published July 31, 1951. Class 6.

556,923. Eggs, Game, and Poultry, All for Breeding Purposes. Gaybird Limited, Prestwood, Great Missenden, England.
Filed Nov. 1, 1950, Serial No. 605,736. Published Dec. 25, 1951. Class 1.

556,924. Brassières, Girdles, and Combinations of Brassières and Girdles. Corset Specialties, Inc., New York, N. Y.
Filed Nov. 8, 1950, Serial No. 606,074. Published Jan. 8, 1952. Class 39.

556,925. Lawn Mowers. Murl E. Nichols, doing business as The Whipper-Clipper Co., Bonham, Tex.
Filed Nov. 10, 1950, Serial No. 606,232. Published Dec. 4, 1951. Class 23.

556,926. Planting Seed. Texas Planting Seed Association, Bryan, Tex.
Filed Nov. 13, 1950, Serial No. 606,342. Published Nov. 27, 1951. Class 1.

556,927. Anti-Friction Bearings and Their Parts, as Inner and Outer Rings, and Balls or Rollers, or Needles. Norma-Hoffmann Bearings Corporation, Stamford, Conn.
Filed Nov. 15, 1950, Serial No. 606,434. Published Jan. 1, 1952. Class 23.

556,928. Field and Garden Seeds. Harper & Martin, also doing business as Har-Mar Seed Service, Cromwell, Ind.
Filed Nov. 17, 1950, Serial No. 606,536. Published Nov. 27, 1951. Class 1.

556,929. Grooved Phonograph Records. Falcon Record Company, Mission, Tex.
Filed Nov. 21, 1950, Serial No. 606,703. Published Jan. 15, 1952. Class 36.

556,930. Water-Dispersible Vitamin Concentrates. Nopco Chemical Company, Harrison, N. J.
Filed Nov. 22, 1950, Serial No. 606,798. Published Nov. 20, 1951. Class 18.

556,931. Cologne, Perfume, Sachet Powder, and Talcum Powder. Frances Rothchild, doing business under the name Lenel Co., Dallas, Tex.
Filed Nov. 28, 1950, Serial No. 607,044. Published Dec. 25, 1951. Class 51.

556,932. Golf Carts. Alfred Murcott, Richmond Hill, N. Y.
Filed Jan. 5, 1951, Serial No. 608,428. Published Jan. 15, 1952. Class 22.

556,933. Preparation for the Treatment of Hypertension. Parke, Davis & Company, Detroit, Mich.
Filed Jan. 11, 1951, Serial No. 608,670. Published Nov. 20, 1951. Class 18.

556,934. Toy Trucks. Jaxton Manufacturing Corporation, Glens Falls, N. Y.
Filed Jan. 17, 1951, Serial No. 608,870. Published Jan. 15, 1952. Class 22.

556,935. Porcelain Figurines. Castle Distributing Corporation, New York, N. Y.
Filed Jan. 19, 1951, Serial No. 608,982. Published Nov. 13, 1951. Class 50.

556,936. Carts for Carrying Golf Bags on the Golf Course. Robert K. Cassidy, doing business under the assumed business name of Cassidy Mfg. Co., Vancouver, Wash.
Filed Jan. 23, 1951, Serial No. 609,227. Published Jan. 15, 1952. Class 22.

556,937. Candy. E. G. Whitman & Co., Inc., Philadelphia, Pa.
Filed Jan. 10, 1951, Serial No. 609,464. Published Oct. 23, 1951. Class 46.

556,938. Planting Seeds—Namely, Alsike Clover, Etc. Northrup, King & Co., Minneapolis, Minn.
Filed Feb. 2, 1951, Serial No. 609,564. Published Nov. 27, 1951. Class 1.

556,939. Dental Operative Instruments—Namely, Gum Scissors, Scalpels, Etc. E. Miltenberg, Inc., New York, N. Y.
Filed Feb. 6, 1951, Serial No. 609,690. Published Jan. 1, 1952. Class 44.

556,940. Teaspoons, Tablespoons, Dessert Spoons, Etc. S. H. Kress and Company, New York, N. Y.
Filed Dec. 15, 1950, Serial No. 609,764. Published Jan. 1, 1952. Class 23.

556,941. Grass Seeds. Druid Hill Park Seed Corporation, Baltimore, Md.
Filed Feb. 9, 1951, Serial No. 609,848. Published Nov. 13, 1951. Class 1.

556,942. Mouth Harmonicas. S. S. Kresge Company, Detroit, Mich.
Filed Feb. 10, 1951, Serial No. 609,930. Published Jan. 15, 1952. Class 36.

556,943. Denture Adhesive Having Antiseptic Qualities. Allan Marin, Chicago, Ill.
Filed Feb. 10, 1951, Serial No. 609,935. Published Nov. 27, 1951. Class 51.

556,944. Imitation Costume Jewellery—Namely, Brooches, Ear-Rings, Finger-Rings, Ornamental Dress Clips, Bracelets, Fobs, and Pendants. Happé Products Limited, London, England.
Filed Feb. 12, 1951, Serial No. 609,972. Published Dec. 25, 1951. Class 28.

556,945. Rose Plants. The Conard-Pyle Company, West Grove, Pa.
Filed Feb. 13, 1951, Serial No. 610,002. Published Nov. 27, 1951. Class 1.

556,946. Toy Guns. Robert J. Corcoran, doing business as Bubbie-O-Bill Company, Beverly Hills, Calif., assignor to Bubbie-O-Bill Corporation, Los Angeles, Calif., a corporation of California.
Filed Feb. 19, 1951, Serial No. 610,258. Published Jan. 15, 1952. Class 22.

556,947. Solution for Killing Crab Grass. Northrup, King & Co., Minneapolis, Minn.
Filed Feb. 26, 1951, Serial No. 610,520. Published Dec. 18, 1951. Class 6.

556,948. Reprocessed Wool, Rayon, Silk, Cotton, and Other Fibres Sold in Bulk, Batt, and Sheet Form. J. Eisenberg, Inc., New York, N. Y.
Filed Feb. 28, 1951, Serial No. 610,617. Published Dec. 25, 1951. Class 1.

556,949. Fibreboard in Sheet Form Which Is a Leather Substitute for Use in Making Heel Bases and Built-Up Heels for Shoes. George O. Jenkins Company, Bridgewater, Mass.
Filed Feb. 28, 1951, Serial No. 610,622. Published Nov. 13, 1951. Class 50.

556,950. Electrical Machines Used in the Treatment of High Blood Pressure, Etc. Amos R. Beamon, Los Angeles, Calif.
Filed Mar. 1, 1951, Serial No. 610,668. Published Jan. 1, 1952. Class 44.

556,951. Toilet Bowl Cleaner With Incidental Deodorizing Properties. Stanley Home Products, Inc., Westfield, Mass.
Filed Mar. 3, 1951, Serial No. 610,807. Published Jan. 1, 1952. Class 52.

556,952. Coal. Reliable Coal and Mining Co., Chicago, Ill.
Filed Mar. 6, 1951, Serial No. 610,924. Published Dec. 25, 1951. Class 1.

556,953. Coal. Reliable Coal and Mining Co., Chicago, Ill.
Filed Mar. 6, 1951, Serial No. 610,925. Published Dec. 25, 1951. Class 1.

556,954. Material Composed of an Elastomer and a Resin in the Form of Sheets or Slabs, for Use in the Manufacture of Luggage, Hand Bags, Brief Cases, and the Like. The Goodyear Tire & Rubber Company, Akron, Ohio.
Filed Mar. 7, 1951, Serial No. 610,964. Published Dec. 25, 1951. Class 1.

556,955. Flat Glass. Blue Ridge Glass Corporation, Kingsport, Tenn.
Filed Mar. 9, 1951, Serial No. 611,073. Published Dec. 25, 1951. Class 33.

556,956. Flat Glass. Blue Ridge Glass Corporation, Kingsport, Tenn.
Filed Mar. 9, 1951, Serial No. 611,075. Published Dec. 25, 1951. Class 33.

556,957. Fresh Citrus Fruits. Hillsborough Packing Company, Tampa, Fla.
Filed Mar. 10, 1951, Serial No. 611,130. Published Dec. 4, 1951. Class 46.

556,958. Diesel Fuel. The Texas Company, Dover, Del., and New York, N. Y.
Filed Mar. 10, 1951, Serial No. 611,158. Published Nov. 27, 1951. Class 15.

556,959. Silver Plated Hollow Ware, Sterling Hollow Ware, and Cutlery. L. Luria & Son, Inc., New York, N. Y.
Filed Mar. 13, 1951, Serial No. 611,230. Published Dec. 25, 1951. Class 28.

556,960. Machine for Pitching Base Balls. Pitch-O-Matic Baseball Corporation, Hackensack and Lodi, N. J.
Filed Mar. 20, 1951, Serial No. 611,582. Published Jan. 15, 1952. Class 22.

556,961. Plant Bulbs. Harry and David, Medford, Oreg.
Filed Mar. 22, 1951, Serial No. 611,646. Published Dec. 25, 1951. Class 1.

556,962. Leather. Willard Helburn, Inc., Peabody, Mass.
Filed Mar. 26, 1951, Serial No. 611,782. Published Dec. 25, 1951. Class 1.

556,963. Lipsticks. Lehn & Fink Products Corporation, Bloomfield, N. J.
Filed Mar. 26, 1951, Serial No. 611,792. Published Nov. 27, 1951. Class 51.

556,964. Piece Goods of Cotton, Silk, Rayon, Nylon, Linen, Hemp, Wool, Worsted, or Hair, or Mixtures of These Materials. The Calico Printers' Association Limited, Manchester, England.
Filed Mar. 27, 1951, Serial No. 611,826. Published Jan. 8, 1952. Class 42.

556,965. Cloth—Namely, Woolen and Worsted Fabrics, All in the Bolt or Piece, and for Use as Overcoating, Suiting, Automobile Robe and Upholstery Material. Broad Brook Company, Broad Brook and East Windsor, Conn.
Filed Mar. 28, 1951, Serial No. 611,885. Published Jan. 8, 1952. Class 42.

556,966. Pop Corn Flavored With Cheese. The Dan Dee Pretzel and Potato Chip Company, Cleveland, Ohio.
Filed Mar. 28, 1951, Serial No. 611,891. Published Dec. 4, 1951. Class 46.

556,967. Medical Preparation—Namely, a Brand of Sodium Salicylate and p-Aminobenzoic Acid Enteric Coated Tablet for Treatment of Arthritic Conditions. Physicians and Hospitals Supply Company, Inc., doing business under the name of Ulmer Pharmacal Company, Minneapolis, Minn.
Filed Mar. 29, 1951, Serial No. 611,971. Published Nov. 20, 1951. Class 18.

556,968. Watches. Jack Honig, doing business under the fictitious name of Honig Watch Company, Los Angeles, Calif.
Filed Mar. 31, 1951, Serial No. 612,074. Published Dec. 25, 1951. Class 27.

556,969. Medicinal Preparation Consisting of Pentobarbital Sodium and Phenobarbital for Use as a Sedative. B. F. Ascher & Company, Inc., Kansas City, Mo.
Filed Apr. 2, 1951, Serial No. 612,113. Published Nov. 27, 1951. Class 18.

556,970. Repository Medicinal Preparation for the Treatment of Bacterial Infections. The Upjohn Company, Kalamazoo, Mich.
Filed Apr. 3, 1951, Serial No. 612,187. Published Nov. 27, 1951. Class 18.

556,971. Pancake Syrup. Paul J. Wheeler, doing business as Associated Foods Co., East Boston, Mass.
Filed Apr. 3, 1951, Serial No. 612,192. Published Dec. 4, 1951. Class 46.

556,972. Hand and Skin Cream. Chamberlain Laboratories, Inc., Des Moines, Iowa.
Filed Apr. 5, 1951, Serial No. 612,243. Published Nov. 27, 1951. Class 51.

556,973. Preparation Used in the Treatment of Chafing, Roughness of Skin, Chapped Hands or Lips and Mild Sunburn. Chicago Pharmacal Company, Chicago, Ill.
Filed Apr. 5, 1951, Serial No. 612,244. Published Nov. 27, 1951. Class 18.

556,974. Lining Fabrics Composed of Cotton Cloth Backing Having an Alpaca Wool Pile on One Side. Gloversville Knitting Company, Gloversville, N. Y.
Filed Apr. 5, 1951, Serial No. 612,251. Published Jan. 8, 1952. Class 42.

556,975. Sorghum Flavored Syrup. W. L. and O. L. Hillman, Madden, Miss.
Filed Apr. 5, 1951, Serial No. 612,260. Published Dec. 4, 1951. Class 46.

556,976. Liniment for Relief of Rheumatic Ailments. R. & G. Robinson, Visalia, Calif.
Filed Apr. 5, 1951, Serial No. 612,275. Published Nov. 27, 1951. Class 18.

556,977. Oil Used in Torque Converters To Lubricate the Same and Primarily To Transmit Power. Sinclair Refining Company, New York, N. Y.
Filed Apr. 6, 1951, Serial No. 612,359. Published Nov. 27, 1951. Class 15.

556,978. Hair Pomade and Pressing Oil. Mrs. Georgia Mae Brown, also known as Mme. G. M. Brown, Chicago, Ill.
Filed Apr. 10, 1951, Serial No. 612,438. Published Nov. 27, 1951. Class 51.

556,979. Tooth Brushes. Pycope Incorporated, Jersey City, N. J.
Filed Apr. 11, 1951, Serial No. 612,506. Published Jan. 1, 1952. Class 29.

556,980. Textile Fabrics in the Piece Composed of Cotton, Rayon, and Wool Fibres. Greeff Fabrics, Inc., New York, N. Y.
Filed Apr. 12, 1951, Serial No. 612,542. Published Jan. 8, 1952. Class 42.

556,981. Clay. J. M. Huber Corporation, Red Bank, N. J., and New York, N. Y.
Filed Apr. 16, 1951, Serial No. 612,693. Published Dec. 25, 1951. Class 1.

556,982. Sheets and Pillowcases and Sheeting by the Yard. McConnell-Kerr Company, Detroit, Mich.
Filed Apr. 16, 1951, Serial No. 612,699. Published Jan. 8, 1952. Class 42.

556,983. Juvenile Baseball Gloves and Sponge Rubber Baseballs. George Sloan, doing business as The Elliott-Morris Co., Lynn, Mass.
Filed Apr. 17, 1951, Serial No. 612,763. Published Jan. 15, 1952. Class 22.

556,984. Cellulose Sponges. Athas Supply Company, Newark, N. J.
Filed Apr. 19, 1951, Serial No. 612,841. Published Dec. 25, 1951. Class 1.

556,985. Toe Pledgets. Zeca Corporation, New York, N. Y.
Filed Apr. 19, 1951, Serial No. 612,882. Published Dec. 25, 1951. Class 44.

556,986. Women's and Misses' Wedding Gowns and Dresses for Formal Wear. Bridal Originals, St. Louis, Mo.
Filed Apr. 20, 1951, Serial No. 612,893. Published Jan. 8, 1952. Class 39.

556,987. Nasal Syphons. Nichols Nasal Syphon, Inc., Montclair, N. J.
Filed Apr. 23, 1951, Serial No. 613,016. Published Dec. 25, 1951. Class 44.

556,988. Welding Rods. Stoody Company, Whittier, Calif.
Filed Apr. 23, 1951, Serial No. 613,029. Published Jan. 15, 1952. Class 14.

556,989. Essential Oils and Aromatic Chemicals for Use in the Manufacture of Pharmaceuticals and Compound Medicines; Vanilla and Flavor Bases for Use in Pharmaceuticals; and Colors for Use in Drugs. Dodge & Olcott, Inc., New York, N. Y.
Filed Apr. 24, 1951, Serial No. 613,055. Published Dec. 25, 1951. Class 18.

556,990. Single Ply Polytetrafluoroethylene Coated or Impregnated Glass Fabrics and Laminates Thereof in Wide or Narrow Rolls (Tapes) or in Sheets, Etc. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed May 1, 1951, Serial No. 613,364. Published Dec. 25, 1951. Class 1.

556,991. Fracture Fixing Pins. The Berivon Company, Meridian, Miss.
Filed May 3, 1951, Serial No. 613,434. Published Jan. 1, 1952. Class 44.

556,992. Shoe Laces. Rhode Island Textile Company, Pawtucket, R. I.
Filed May 10, 1951, Serial No. 613,731. Published Jan. 15, 1952. Class 40.

556,993. Backings for Use in the Making of Belts, Particularly by Home Dressmakers, Sold as Such and Adapted To Be Covered by a Suitable Decorative Fabric. G & W Leather Goods Supply Co., Inc., New York, N. Y.
Filed May 12, 1951, Serial No. 613,811. Published Jan. 15, 1952. Class 40.

556,994. Base Metal Table Cutlery—Namely, Knives, Forks, and Spoons. National Silver Company, New York, N. Y.
Filed May 12, 1951, Serial No. 613,821. Published Dec. 4, 1951. Class 23.

556,995. Clay. J. M. Huber Corporation, Red Bank, N. J., and New York, N. Y.
Filed May 16, 1951, Serial No. 613,914. Published Dec. 25, 1951. Class 1.

556,996. Grass Seed in Packets. Izaak Walton League of America, Inc., Chicago, Ill.
Filed May 16, 1951, Serial No. 613,949. Published Dec. 25, 1951. Class 1.

556,997. Sanitary Napkins and Belts. Tego Products Company, Greenville, S. C.
Filed May 17, 1951, Serial No. 614,019. Published Jan. 1, 1952. Class 44.

556,998. Anti-Friction Bearings. McGill Manufacturing Co., Inc., Valparaiso, Ind.
Filed May 24, 1951, Serial No. 614,308. Published Jan. 1, 1952. Class 23.

556,999. Flavored and Unflavored Yogurt, Etc. Gaymont Laboratories, Inc., Chicago, Ill.
Filed May 31, 1951, Serial No. 614,548. Published Dec. 18, 1951. Class 46.

557,000. Sulphonated Liquid Hand Cleaner. Lightfoot Schultz Company, New York, N. Y.
Filed June 6, 1951, Serial No. 614,604. Published Jan. 15, 1952. Class 52.

557,001. Synthetic Tanning Agent. Standard Dyewood Company, Medford, Mass.
Filed June 1, 1951, Serial No. 614,636. Published Jan. 1, 1952. Class 6.

557,002. Tire Chains. Campbell Chain Company York, Pa.
Filed June 2, 1951, Serial No. 614,648. Published Jan. 15, 1952. Class 13.

557,003. Gold Alloy Used for Dental Purposes—Namely, for Orthodontic Work, Bridgework, and Partial Dentures. J. F. Jelenko & Co., Inc., New York, N. Y.
Filed June 2, 1951, Serial No. 614,664. Published Jan. 8, 1952. Class 44.

557,004. Brassières. Artistic Foundations, Inc., New York, N. Y.
Filed June 4, 1951, Serial No. 614,801. Published Jan. 8, 1952. Class 39.

557,005. Metallic Backings for Artificial Teeth. The Columbus Dental Manufacturing Co., Columbus, Ohio.
Filed June 6, 1951, Serial No. 614,818. Published Jan. 8, 1952. Class 44.

557,006. Tire Chains. The McKay Company, Pittsburgh, Pa.
Filed July 6, 1951, Serial No. 616,178. Published Jan. 8, 1952. Class 13.

557,007. Metal Fencing, Poles, Braces, Columns, and Anchors Therefor. Nichols Wire & Aluminum Co., Davenport, Iowa.
Filed July 6, 1951, Serial No. 616,184. Published Jan. 8, 1952. Class 13.

557,008. Thermoplastic Injection Molded Venetian Blind Fittings. The National Plastic Products Company, Odenton, Md.
Filed July 11, 1951, Serial No. 616,331. Published Jan. 8, 1952. Class 13.

557,009. Steel Strip. The American Steel and Wire Company of New Jersey, Cleveland, Ohio, now by merger, United States Steel Company, a corporation of New Jersey.
Filed July 23, 1951, Serial No. 616,807. Published Jan. 8, 1952. Class 14.

557,010. Playing Cards. The United States Playing Card Company, Cincinnati, Ohio.
Filed Aug. 20, 1951, Serial No. 617,894. Published Jan. 15, 1952. Class 22.

557,011. Artificial Fish Lures. Everett H. Allison, Chicago, Ill.
Filed Aug. 30, 1951, Serial No. 618,224. Published Jan. 15, 1952. Class 22.

Service Marks

557,012. Spinning Metal Parts From Flat Sheet Metal on Customer's Order and to His Specifications. Spincraft, Inc., Milwaukee, Wis., by change of name from Milwaukee Metal Spinning Company.
Original filed, act of 1905, Aug. 23, 1946; amended to application under act of 1946, Principal Register, Sept. 26, 1947, Serial No. 507,921. Published Jan. 8, 1952. Class 106.

557,013. Services Comprising the Dissemination of Information Pertaining to Farming and Related Industries, Etc. Farmers Educational and Cooperative Union of America, Denver, Colo.
Filed Aug. 20, 1947, Serial No. 531,900. Published Jan. 8, 1952. Class 102.

557,014. Advertising Goods and Services of Others Through the Medium of Radio Broadcast Programs Wherein Letters and Numbers are Called Out Which, if They Tally With Numbers and Letters on the Listener's Cards, Enables the Listener To Win a Prize. Thomas L. Smith, Charleston, S. C.
Filed Aug. 26, 1947, Serial No. 532,511. Published Jan. 8, 1952. Class 101.

557,015. Radio Program Broadcasting; for Entertainment Services, Etc. Great Trails Broadcasting Corporation, Dayton, Ohio.
Filed Sept. 2, 1947, Serial No. 533,017. Published Jan. 8, 1952. Class 101.

557,016. Radio Program Broadcasting; for Entertainment Services Through the Medium of Radio in the Nature of Musical, Dramatic, and Dramatico-Musical Programs; and for the Advertising of Goods and Services of Others Through the Medium of Radio Broadcast Programs. Radio Voice of Springfield, Inc., Springfield, Ohio.
Filed Sept. 2, 1947, Serial No. 533,050. Published Jan. 8, 1952. Class 101.

557,017. Entertainment Service in the Nature of Story Telling Rendered Through the Medium of Radio. Edward H. Butler, Individually and as trustee under the last will and testament of Edward H. Butler, deceased, conducting business under the name and

style of Buffalo Evening News, Buffalo, N. Y., assignor to Buffalo Evening News, Inc., Buffalo, N. Y., a corporation of New York.
Filed Oct. 31, 1947, Serial No. 539,647. Published Jan. 15, 1952. Class 107.

557,018. Etching of Plates and Cylinders and the Furnishing of Advisory Services in Connection With the Use Thereof in the Reproduction of Wood Graining and Analogous Textures. Interchemical Corporation, New York, N. Y.
Filed July 14, 1948, Serial No. 561,313. Published Jan. 8, 1952. Class 106.

557,019. Advertising Services Rendered to and on Behalf of Clients—Namely, Investigating, Analyzing, and Compiling Information To Determine the Marketability of Products and the Formulation and Execution of Sales Promotion Plans. W. Schuyler Hopper, doing business as The Schuyler Hopper Co., New York, N. Y.
Filed Oct. 30, 1948, Serial No. 567,916. Published Jan. 8, 1952. Class 101.

557,020. Oil Field Services—Namely, Penetration of Subterranean Strata for the Purpose of Increasing the Permeability Thereof. Byron Jackson Co., Los Angeles, Calif., assignor to BJ Service, Inc., Long Beach, Calif., a corporation of Delaware.
Filed Apr. 25, 1949, Serial No. 577,673. Published Jan. 15, 1952. Class 103.

557,021. Rental of Tools and Equipment—Namely, Post Hole Diggers, Picks, Shovels, Tractors, etc. Aubrey Wilson, doing business as The Tool Crib, Pasadena, Calif.
Filed May 3, 1949, Serial No. 578,181. Published Jan. 8, 1952. Class 103.

557,022. Face, Body, and Hair Make-Up and Care, Etc. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed July 14, 1949, Serial No. 581,927. Published Jan. 1, 1952. Class 100.

557,023. Services in the Graphic Arts—Namely, Engraving and Intaglio Printing, Lithographing, Embossing, and Printing With Raised Type and Plates, and Making Designs—Viz., Illustrations, Ornaments, and Special Lettering for Such Work. American Bank Note Company, New York, N. Y.
Filed Oct. 1, 1949, Serial No. 585,624. Published Jan. 15, 1952. Class 101.

557,024. Developing, Enlarging, Reproducing, Coloring, and Printing of Pictures From Photographic Film. Distributors Photo Finishing Co., Cincinnati, Ohio.
Filed Jan. 13, 1950, Serial No. 590,873. Published Jan. 8, 1952. Class 106.

557,025. Installation and Repair of Plumbing Fixtures. John T. Myers, doing business as Connett Plumbing and Heating, Fort Wayne, Ind.
Filed Feb. 8, 1950, Serial No. 592,156. Published Jan. 8, 1952. Class 103.

557,026. Service, Maintenance, and Repair of Vacuum Cleaners and Floor Polishers, and Accessories Therefor, and for the Installation of Repair Parts for Said Vacuum Cleaners and Floor Polishers, and Accessories Therefor. Electrolux Corporation, Dover, Del., and New York, N. Y.
Filed Sept. 20, 1950, Serial No. 603,777. Published Jan. 8, 1952. Class 103.

557,027. Plating of Sentimentally Valuable Articles To Preserve Them for Gift and Novelty Purposes. The Bron-Shoe Company, doing business as The Senti-Metal Company, Columbus, Ohio.
Filed Sept. 28, 1950, Serial No. 604,144. Published Jan. 8, 1952. Class 106.

557,028. Advertising the Goods of Others Through the Medium of a Series of Dramatic Radio and Television Broadcasts. Dick Powell, doing business as Powell Enterprises, Hollywood, Calif.
Filed Oct. 3, 1950, Serial No. 604,386. Published Jan. 8, 1952. Class 101.

557,029. Employment Agency Services. Boulevard Employment Service, Inc., Chicago, Ill.
Filed Oct. 19, 1950, Serial No. 605,142. Published Jan. 15, 1952. Class 101.

557,030. Instructing in the Playing of the Accordion, a Musical Instrument. Joseph J. Buchicchio, New Orleans, La.
Filed Oct. 18, 1950, Serial No. 605,279. Published Jan. 8, 1952. Class 107.

557,031. Entertainment Through the Medium of Television Programs Consisting of Vocal and Musical Presentations by Applicant, Sound Motion Pictures, and Miscellaneous Comments and Announcements. Robert W. Ehle, Syracuse, N. Y.
Filed Jan. 8, 1951, Serial No. 608,498. Published Jan. 15, 1952. Class 107.

557,032. Advertising Services—Namely, the Creation, Production, and Distribution of Advertising Copy, Printing, Photography, Art Work, Layouts, Counter Cards, and Public Relations Material. Disney Color-Ad Inc., Chicago, Ill.
Filed Mar. 9, 1951, Serial No. 611,078. Published Jan. 15, 1952. Class 101.

557,033. Underwriting of Life and Endowment Insurance, Annuity and Pure Endowment Insurance, and Group Accident and Health Insurance. John Hacock Mutual Life Insurance Company, Boston, Mass.
Filed Apr. 9, 1951, Serial No. 612,393. Published Jan. 15, 1952. Class 102.

557,034. Bus Transportation Services. Intermountain Transportation Company, Anaconda, Mont.
Filed Apr. 17, 1951, Serial No. 612,743. Published Jan. 15, 1952. Class 105.

557,035. Restaurant Services. John R. Thompson Co., Chicago, Ill.
Filed June 19, 1951, Serial No. 615,420. Published Jan. 8, 1952. Class 100.

Certification Mark

557,036. Provision and Maintenance of Lodgings and Other Motor Court and Motel Accommodations of High Quality for the Public Traveling by Automobiles. United Motor Courts, Incorporated, Pasadena, Calif., and Denver, Colo.
Filed Feb. 26, 1948, Serial No. 550,632. Published Jan. 8, 1952. Class 100.

Collective Marks

557,037. Furnishing Medical Care on a Pre-Payment Basis. Blue Shield Medical Care Plans, Chicago, Ill., by change of name from Associated Medical Care Plans.
Filed Dec. 15, 1949, Serial No. 589,371. Published Jan. 8, 1952. Class 100.

557,038. Rendering Civic and Moral Educational Services in Forming and Teaching Groups of Boys To Take Interest in Civic and Governmental Affairs, Sports, and Educational Activities. Optimist International, St. Louis, Mo.
Filed May 29, 1950, Serial No. 598,320. Published Jan. 8, 1952. Class 107.

557,039. Organizing of Chapters in a National Collegiate Fraternity and Maintaining Membership Therein. Alpha Chi Rho Fraternity, New York, N. Y.
Filed Sept. 15, 1950, Serial No. 603,564. Published Jan. 8, 1952. Class 100.

557,040. Underwriting the Expense of Medical Care. Blue Shield Medical Care Plans, Chicago, Ill.
Filed Nov. 13, 1950, Serial No. 606,403. Published Jan. 8, 1952. Class 102.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

557,041. (Class 49. Distilled Alcoholic Liquors.) The Crosse & Blackwell Company, Baltimore, Md. Original filed, act of 1946, Principal Register, June 8, 1950; amended to application, Supplemental Register, Dec. 14, 1951, Serial No. 598,784.

The COCKTAILER

For Alcoholic Beverages—Namely, Prepared Cocktails.
Claims use since Mar. 31, 1950.

557,042. (Class 22. Games, Toys, and Sporting Goods.) Tach-A-Toy, Inc., Seattle, Wash. Original filed, act of 1946, Principal Register, July 1, 1950; amended to application, Supplemental Register, Aug. 28, 1951, Serial No. 600,153.

TACH-A-TOY

For Children's Toys—Namely, Dump Carts, Cranes, and Trailers.
Claims use since Apr. 19, 1950.

557,043. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Jack Feder, Forest Hills, N. Y. Original filed, act of 1946, Principal Register, Aug. 2, 1950; amended to application, Supplemental Register, Aug. 10, 1951, Serial No. 601,611.

Sew-Tric

For Sewing Machines and Sewing Machine Parts.
Claims use since Apr. 3, 1950.

557,044. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Jack Feder, Forest Hills, N. Y. Original filed, act of 1946, Principal Register, Aug. 2, 1950; amended to application, Supplemental Register, Aug. 1, 1951, Serial No. 601,612.

Tru-Sew

For Sewing Machines and Sewing Machine Parts.
Claims use since Apr. 3, 1950.

557,045. (Class 46. Foods and Ingredients of Foods.) Robert L. Gulick, Jr., doing business under the name International Foods, Berkeley, Calif. Original filed, act of 1946, Principal Register, Aug. 2, 1950; amended to application, Supplemental Register, Sept. 20, 1951, Serial No. 601,616.

SEA-STEAKS

For Frozen Abalone.
Claims use since July 12, 1950.

557,046. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) E. H. Titchener & Company, Binghamton, N. Y. Original filed, act of 1946, Principal Register, Aug. 16, 1950; amended to application, Supplemental Register, Jan. 19, 1952, Serial No. 602,295.

TUBE-TITE

For Staples.
Claims use since Jan. 3, 1950.

557,047. (Class 17. Tobacco Products.) Gradiaz, Annis & Co., Inc., Tampa, Fla. Original filed, act of 1946, Principal Register, Sept. 18, 1950; amended to application, Supplemental Register, Jan. 11, 1952, Serial No. 603,679.

Candela

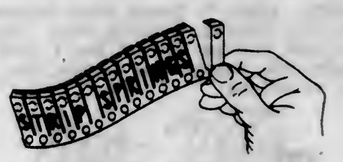
For Cigars.
Claims use since June 1, 1949.

557,048. (Class 2. Receptacles.) B. M. Heede, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 19, 1950; amended to application, Supplemental Register, Dec. 3, 1951, Serial No. 603,712.



For Silos.
Claims use since Sept. 1, 1949.

557,049. (Class 21. Electrical Apparatus, Machines, and Supplies.) Instrument Specialties Company, Inc., West Paterson, N. J. Original filed, act of 1946, Principal Register, Sept. 23, 1950; amended to application, Supplemental Register, Nov. 28, 1951, Serial No. 603,928.



For Springs Made and Sold in Strip Form, the Springs of Any Particular Kind for a Certain Purpose Being Readily Broken Away From the Strip for Use in Making Devices for Which the Spring Is Adapted in the Electrical Industry.
Claims use since April 1949.

557,050. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Rollway Bearing Company, Inc., Syracuse, N. Y. Original filed, act of 1946, Principal Register, Sept. 23, 1950; amended to application, Supplemental Register, Jan. 3, 1952, Serial No. 603,943.

Tru-Rol

For Roller Bearings.
Claims use since June 1, 1947.

557,051. (Class 46. Foods and Ingredients of Foods.) Salem Nut Growers Cooperative, Salem, Oreg. Original filed, act of 1946, Principal Register, Oct. 23, 1950; amended to application, Supplemental Register, Dec. 3, 1951, Serial No. 605,329.



For Salted Shelled and Unsalted Unshelled Nuts.
Claims use since Oct. 1, 1950.

557,052. (Class 39. Clothing.) Perfectform Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 3, 1950; amended to application, Supplemental Register, Sept. 18, 1951, Serial No. 605,870.

"PRIDE MARK OF PERFECTION"

For Ladies' Nightgowns, Slips, and Pajamas.
Claims use since July 1943.

557,053. (Class 18. Medicines and Pharmaceutical Preparations.) Lloyd W. Tuggle, doing business as Cimarron Drug Company, Cimarron, Kans. Original filed, act of 1946, Principal Register, Dec. 7, 1950; amended to application, Supplemental Register, Nov. 23, 1951, Serial No. 607,404.

TAYLOR'S

For Liniment for Use on Animals.
Claims use since Oct. 2, 1950.

557,054. (Class 12. Construction Materials.) Timesaver Products Company, Seattle, Wash. Original filed, act of 1946, Principal Register, Dec. 14, 1950; amended to application, Supplemental Register, Nov. 29, 1951, Serial No. 607,691.

Perma Seal

For Caulking Compound.
Claims use since May 15, 1950.

557,055. (Class 15. Oils and Greases.) The Gruen Watch Company, Cincinnati, Ohio. Original filed, act of 1946, Principal Register, Dec. 18, 1950; amended to application, Supplemental Register, Jan. 18, 1952, Serial No. 607,806.

GRUENOIL

For Watch Lubricating Oil.
Claims use since Nov. 29, 1950.

557,056. (Class 1. Raw or Partly Prepared Materials.) Harold V. Flanders, doing business as Flanders Poultry Farm, North Weare, N. H. Original filed, act of 1946, Principal Register, Jan. 19, 1951; amended to application, Supplemental Register, Jan. 25, 1952, Serial No. 608,987.



For Hatching Eggs.
Claims use since Dec. 10, 1950.

557,057. (Class 2. Receptacles.) The Dayton Folding Box Company, Harrison, Ohio. Original filed, act of 1946, Principal Register, Jan. 20, 1951; amended to application, Supplemental Register, Jan. 23, 1952, Serial No. 609,031.

FASPAK

For Collapsible Cardboard Cartons for Holding a Plurality of Soft Drink Bottles.
Claims use since Jan. 17, 1951.

557,058. (Class 32. Furniture and Upholstery.) The Shaw-Walker Company, Muskegon, Mich. Filed Feb. 5, 1951, Serial No. 609,667.

"BUILT LIKE A SKYSCRAPER"

Applicant claims ownership of Registration No. 535,589.
For Office Desks and Tables, Bookcases, Cupboards, Wardrobes, Office Chairs, and Filing Cabinets.
Claims use since 1915.

557,059. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) The Miller Hardware Co., Philadelphia, Pa. Filed Mar. 23, 1951, Serial No. 611,709.



For Hinges, Bolts, Nuts, and Screws.
Claims use since Feb. 16, 1950.

557,060. (Class 37. Paper and Stationery.) The C. E. Sheppard Company, Long Island City, N. Y. Original filed, act of 1946, Principal Register, Apr. 11, 1951; amended to application, Supplemental Register, Jan. 26, 1952, Serial No. 612,515.

FLAT-RITE

For Loose Leaf Binders and Ledgers and Leaves or Sheets Therefor.
Claims use since Aug. 15, 1950.

557,061. (Class 37. Paper and Stationery.) The C. E. Sheppard Company, Long Island City, N. Y. Original filed, act of 1946, Principal Register, Apr. 11, 1951; amended to application, Supplemental Register, Jan. 26, 1952, Serial No. 612,516.

LITHO-RULED

For Accounting Forms and Loose Leaf Accounting Sheets for Use With Loose Leaf Binders and Ledgers.
Claims use since July 18, 1950.

557,062. (Class 15. Oils and Greases.) Specialty Products Company, Jersey City, N. J. Original filed, act of 1946, Principal Register, May 21, 1951; amended to application, Supplemental Register, Dec. 29, 1951, Serial No. 614,170.

KANTMELT

For Lubricating Greases.
Claims use since November 1950.

557,063. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Chicago Specialty Mfg. Co., Chicago, Ill. Filed May 24, 1951, Serial No. 614,287.

"SPEEDY"

For Basin Wrench.
Claims use since Jan. 29, 1937.

557,064. (Class 18. Medicines and Pharmaceutical Preparations.) Howard W. Naylor, doing business under the trade-name and style of H. W. Naylor Co., Morris, N. Y. Original filed, act of 1946, Principal Register, May 31, 1951; amended to application, Supplemental Register, Dec. 29, 1951, Serial No. 614,566.

BLU-KOTE

For Antiseptic Protective Wound Dressing.
Claims use since June 1949.

557,065. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Wrightway Engineering Co., Chicago, Ill. Original filed, act of 1946, Principal Register, June 22, 1951; amended to application, Supplemental Register, Jan. 26, 1952, Serial No. 615,596.

KLEEN-STREAM

For Faucet Aerators.
Claims use since Apr. 1, 1949.

557,066. (Class 32. Furniture and Upholstery.) John H. Best & Sons, Inc., Galva, Ill. Filed June 23, 1951, Serial No. 615,600.



Applicant claims ownership of Registrations Nos. 53,161, 550,158, and 550,699.
For Display Racks and Storage Racks for the Display and Storage of Floor Coverings.
Claims use since July 1899.

557,067. (Class 39. Clothing.) Avon Sole Company, Avon, Mass. Original filed, act of 1946, Principal Register, June 27, 1951; amended to application, Supplemental Register, Jan. 17, 1952, Serial No. 615,750.

CUSH-N-CREPE

For Shoe Soles.
Claims use since Oct. 19, 1950.

557,068. (Class 10. Fertilizers.) Re-Mark Chemical Co., Inc., Miami, Fla. Original filed, act of 1946, Principal Register, July 5, 1951; amended to application, Supplemental Register, Jan. 28, 1952, Serial No. 616,125.

Neo-Vita

For Liquid Preparation for Mineralizing and Neutralizing the Soil, With Incidental Fungicidal and Bactericidal Properties.
Claims use since May 1, 1950.

557,069. (Class 39. Clothing.) I. Schneierson & Sons, Inc., New York, N. Y. Filed July 26, 1951, Serial No. 618,903.

Kustom-Flex

For Ladies' and Children's Slips, of Textile Fabric.
Claims use since May 24, 1948.

557,070. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Sturdi-Bilt Steel Products, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Jan. 19, 1950; amended to application, Supplemental Register, Sept. 28, 1951, Serial No. 591,118.

Sturdi-Bilt

For Knockdown Bases for Supporting Power Tools.
Claims use since Jan. 3, 1950.

557,071. (Class 18. Medicines and Pharmaceutical Preparations.) Oda A. Reeves, doing business as O. A. Reeves & Co., Charleston, Mo. Original filed, act of 1946, Principal Register, Jan. 30, 1950; amended to application, Supplemental Register, Nov. 29, 1950, Serial No. 591,700.

REEVES

For Chemical Hog Treatment Preparation, Consisting of Kerosene, Pine Tar and Carbolic Acid for Use in Killing Lice, Sarcoptic Mange and for the Removal of Scurf From the Skin.
Claims use since Jan. 7, 1949.

557,072. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) H. K. Porter, Inc., Somerville, Mass. Original filed, act of 1946, Principal Register, June 2, 1950; amended to application, Supplemental Register, Aug. 3, 1951, Serial No. 598,501.

SPEEDLOK

For Tubular Extension Bars for Hydraulic Jacks and Connector Members (or Parts) Therefor, Sold as a Unit.
Claims use since Apr. 29, 1950.

557,073. (Class 2. Receptacles.) Hammond Iron Works, Warren, Pa. Original filed, act of 1905, Jan. 16, 1947; amended to application under act of 1946, Principal Register, Oct. 21, 1949; amended to Supplemental Register Dec. 6, 1951, Serial No. 515,834.



The word "Tank" or "Tanks" and the pictorial representation of the tank are disclaimed.
Applicant claims ownership of Registrations Nos. 134,963, 135,454, and 442,042.
For Metal Tanks and Combination Metal and Concrete Tanks and the Particular Use Being for Oil, Water, Gas, and Gasolene Storage.
Claims use since Mar. 1, 1916.

557,074. (Class 44. Dental, Medical, and Surgical Appliances.) Quicast Crown, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 29, 1948; amended to application, Supplemental Register, Nov. 18, 1950, Serial No. 553,306.

METAL MELT

For Pattern Forms and Metal Shells, Used as a Reinforcement for Dental Patterns.
Claims use since Feb. 23, 1947.

557,075. (Class 4. Abrasives and Polishing Materials.) Karl Schmoll, Vienna, Austria. Original filed, act of 1946, Principal Register, June 8, 1948; amended to application, Supplemental Register, Nov. 14, 1951, Serial No. 558,740.



The word "Pasta" is disclaimed. The drawing is lined for shading. Applicant claims ownership of Austrian Registration No. 269, dated Oct. 27, 1941.
For Shoe Polishes.

557,076. (Class 46. Foods and Ingredients of Foods.) John G. Sewell, doing business as Sewell Selected Citrus Co., Fort Lauderdale, Fla. Original filed, act of 1946, Principal Register, July 23, 1948; amended to application, Supplemental Register, June 22, 1951, Serial No. 562,088.

Pick of the Crop

For Fresh Deciduous and Citrus Fruits.
Claims use since July 3, 1948.

557,077. (Class 2. Receptacles.) Bemis Bro. Bag Company, St. Louis, Mo. Original filed, act of 1946, Principal Register, Aug. 13, 1948; amended to application, Supplemental Register, Jan. 16, 1952, Serial No. 563,302.

INVU

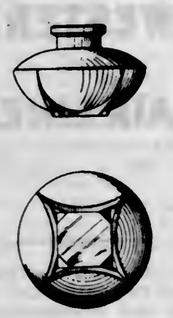
For Paper Bags Having a Cellophane or Other Type of Translucent Window.
Claims use since July 23, 1948.

557,078. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Peerless Industries, Inc., Salem Township and Plymouth, Mich. Original filed, act of 1946, Principal Register, Aug. 16, 1948; amended to application, Supplemental Register, Jan. 21, 1952, Serial No. 563,491.

QWIK-ON

For Lavatory and Tank Supplies—Namely, Copper Tubings, Adapters, Sleeve Nuts, Friction Rings, Brass Valve Seats, Nipples, Tips, Angle Stops, Angle Stop Valves, Flanges, Cabinet Sink Connectors, Convector Air Valves, and Drainage Connections.
Claims use since Feb. 10, 1948.

557,079. (Class 51. Cosmetics and Toilet Preparations.) Caron Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 18, 1948; amended to application, Supplemental Register, Apr. 26, 1951, Serial No. 563,663.



For Perfume.
Claims use since 1912.

557,080. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Driv-Lok Pin Company, Sycamore, Ill. Original filed, act of 1946, Principal Register, Aug. 31, 1948; amended to application, Supplemental Register, Dec. 3, 1951, Serial No. 564,438.

DRIV·LOK

For Self-Locking Metallic Pins, for Use—(a) as a Pivot or Hinge Connector Between Two Members; (b) To Provide a Rigid Connection Between Two or More Members; (c) as a Hand Grip; and (d) as Dowels or Guides for Alignment of Members or Providing Quick Detachable Association of Members.
Claims use since Nov. 15, 1947.

557,081. (Class 39. Clothing.) The Rocké Corporation, Denver, Colo. Original filed, act of 1946, Principal Register, Nov. 12, 1948; amended to application, Supplemental Register, Feb. 27, 1951, Serial No. 568,668.

Rocké

For Men's and Women's Hosiery.
Claims use since Sept. 4, 1948.

557,082. (Class 46. Foods and Ingredients of Foods.) Homer Bonebrake, doing business as Blue Star Malt Shop, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Nov. 22, 1948; amended to application, Supplemental Register, May 2, 1950, Serial No. 569,188.

WAFFLEBURGER

For Sandwiches.
Claims use since Feb. 5, 1948.

557,083. (Class 2. Receptacles.) Barry S. Wolff, Newark, N. J. Original filed, act of 1946, Principal Register, Oct. 15, 1948; amended to application, Supplemental Register, June 25, 1951, Serial No. 570,743.

"PACKETTE"

Applicant claims ownership of Registration No. 410,163.
For Receptacles — Namely, Sandwich, Garbage, Utility, Refrigerator Paper Bags, Merchandise Envelopes, Paper Cups and Dishes, Cardboard Canisters and Cartons.
Claims use since Sept. 15, 1943.

557,084. (Class 46. Foods and Ingredients of Foods.) Elizabeth Rohrmann, West Bend, Wis. Original filed, act of 1946, Principal Register, Apr. 15, 1949; amended to application, Supplemental Register, Sept. 22, 1950, Serial No. 577,227.

ROHRMANN'S FAMOUS
BRAT LINKS

The words "Famous" and "Brat Links" are disclaimed.
For Sausage.
Claims use since Dec. 1, 1948.

557,085. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Goddard and Goddard Company, Detroit, Mich. Original filed, act of 1946, Principal Register, May 23, 1949; amended to application, Supplemental Register, Aug. 7, 1951, Serial No. 579,318.

SERRATIP

For Inserted Blades for Rotary Metal Cutting Tools and Tools Embodying Such Blades.
Claims use since Sept. 1, 1948.

557,086. (Class 39. Clothing.) The Nolde and Horst Company, Reading, Pa. Original filed, act of 1946, Principal Register, May 24, 1949; amended to application, Supplemental Register, June 6, 1951, Serial No. 579,446.

SPORT-EEZ

For Men's, Women's, Boys', and Girls' Socks.
Claims use since Sept. 10, 1948.

557,087. (Class 15. Oils and Greases.) Richfield Oil Corporation, Los Angeles, Calif. Original filed, act of 1946, Principal Register, July 13, 1949; amended to application, Supplemental Register, June 13, 1950, Serial No. 581,896.

RICHCOTE

Applicant claims ownership of Registration No. 363,247.
For Lubricating Oils and Gresses.
Claims use since Jan. 21, 1930.

557,088. (Class 46. Foods and Ingredients of Foods.) Tasty-Krisp Products, Inc., Detroit, Mich. Original filed, act of 1946, Principal Register, July 20, 1949; amended to application, Supplemental Register, Nov. 10, 1950, Serial No. 582,254.



For Cheese Flavored Corn Food or Confection in the Form of Finger Strips, Containing Corn Meal, Vegetable Oil, Cheese Flavor, Salt and Certified Color.
Claims use since Jan. 2, 1949.

557,089. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Theodore G. Koplen, Grand Prairie, Tex. Original filed, act of 1946, Principal Register, Aug. 22, 1949; amended to application, Supplemental Register, Dec. 19, 1950, Serial No. 583,804.

Slip-on

For Tubular Extension Sections and Couplings Therefor for Automobile Body Jacks.
Claims use since Feb. 1, 1949.

557,090. (Class 46. Foods and Ingredients of Foods.) Dailey Pickle & Canning Company, doing business as Bell Food Products Co., Saginaw, Mich. Original filed, act of 1946, Principal Register, Aug. 27, 1949; amended to application, Supplemental Register, Jan. 18, 1952, Serial No. 584,183.

Mid-West

For Pickles.
Claims use since June 17, 1949.

557,091. (Class 46. Foods and Ingredients of Foods.) Eaton & Eustis Company, Boston, Mass. Original filed, act of 1946, Principal Register, Oct. 6, 1949; amended to application, Supplemental Register, Aug. 14, 1950, Serial No. 585,837.

NUT GROVE

For Mixed Nuts Sold in the Shell.
Claims use since Sept. 15, 1948.

Service Marks

557,092. (Class 105. Transportation and Storage.) Western Air Lines, Inc., Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 13, 1950; amended to application, Supplemental Register, Nov. 13, 1950, Serial No. 593,893.

WESTERN

AIR LINES

Applicant claims ownership of Registration No. 531,594.
For Transportation of Passengers, Freight, and Mail by Airplane.
Claims use since Mar. 1, 1943.

557,093. (Class 102. Insurance and Financial.) Marshall D. Graham Corporation, Los Angeles, Calif. Original filed, act of 1946, Principal Register, May 18, 1950; amended to application, Supplemental Register, July 16, 1951, Serial No. 597,680.

GRAHAM

For Real Estate Brokerage, General Insurance Brokerage, and Real Estate Appraising.
Claims use since June 15, 1945.

557,094. (Class 103. Construction and Repair.) John M. Hart, Anderson, Ind. Original filed, act of 1946, Principal Register, Sept. 14, 1950; amended to application, Supplemental Register, Nov. 2, 1951, Serial No. 603,528.



For Installing and Servicing Two-Way Intercommunication Mobile Telephones.
Claims use since July 12, 1950.

TRADE-MARK REGISTRATIONS RENEWED

84,407. "P. S. CO. QUAKER" ETC. Registered Dec. 12, 1911. The Philadelphia Seed Co., Inc., Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed Dec. 12, 1951. Red-Clover Seed, Alsyke-Clover Seed, Alfalfa-Clover Seed, Etc. Class 1.

84,703. TULC. Registered Dec. 26, 1911. Universal Lubricating Co., Cleveland, Ohio. Re-renewed Dec. 26, 1951, to Robert Scholle, Bedford, Ohio. Heavy and Light Oils and Greases for Lubricating Purposes. Class 15.

84,799. AMOLCO. Registered Jan. 9, 1912. American Molasses Co. Re-renewed Jan. 9, 1952, to American Molasses Company, New York, N. Y., a corporation of New York. Molasses. Class 46.

84,819. PETER PAN. Registered Jan. 9, 1912. Theo. H. Davies Company, Ltd., Honolulu, Territory of Hawaii. Re-renewed Jan. 9, 1952, to Peter Pan, Incorporated, Pecatonica, Ill., a corporation of Illinois. Canned Pineapple. Class 46.

84,990. "ASTER" AND DRAWING. Registered Jan. 16, 1912. Newark Packing Company, Inc., Newark, N. J., a corporation of New Jersey. Re-renewed Jan. 16, 1952. Smoked Beef and Bacon. Class 46.

85,177. VITRALITE. Registered Jan. 30, 1912. Pratt & Lambert, Inc., Long Island City and Buffalo, N. Y. Re-renewed Jan. 30, 1952, to Pratt & Lambert, Inc., Buffalo, N. Y., a corporation of New York. Enamels, Varnishes, Stains, Fillers. Class 16.

85,344. REPRESENTATION OF BLACK BANDS AROUND A BARREL. Registered Feb. 13, 1912. The Greif Bros. Co., Cleveland, Ohio. Re-renewed Feb. 13, 1952, to The Greif Bros. Cooperage Corporation, Delaware, Ohio, a corporation of Delaware. Casks and Barrels. Class 2.

85,864. ILLINOIS WATCH CASE CO. Registered Mar. 26, 1912. Illinois Watch Case Co., Elgin, Ill., a corporation of Illinois. Re-renewed Mar. 26, 1952. Watchcases. Class 27.

86,312. "KLIM" WITHIN CIRCLE DESIGN. Registered Apr. 30, 1912. Merrell-Soule Co., Syracuse, N. Y. Re-renewed Apr. 30, 1952, to The Borden Company, New York, N. Y., a corporation of New Jersey. Milk Products in Dry Form. Class 46.

86,543. REPRESENTATION OF MONOGRAM "NY." Registered May 14, 1912. The New York Air Brake Company, New York, N. Y. Re-renewed May 14, 1952, to The New York Air Brake Company, New York, and Watertown, N. Y., a corporation of New Jersey. Air Brakes and Parts Thereof. Class 19.

86,582. A. W. FABER. Registered May 21, 1912. A. W. Faber, Stein, Germany. Re-renewed May 21, 1952, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J., a corporation of New Jersey. Crayons, Chalks, Pencil Leads, Etc. Class 37.

86,583. BLACK FLYER. Registered May 21, 1912. A. W. Faber, Stein, Germany. Re-renewed May 21, 1952, to A. W. Faber-Castell Pencil Co., Inc., Newark, N. J., a corporation of New Jersey. Lead Pencils, Colored Pencils, Copying Pencils, Etc. Class 37.

86,630. "TUNGSTEN" AND DRAWING. Registered May 21, 1912. Wm. A. Stickney Cigar Co., St. Louis, Mo. Re-renewed May 21, 1952, to Niles & Moser Cigar Company, Kansas City, Mo., a corporation of Missouri. Cigars. Class 17.

86,727. REPRESENTATION OF MONOGRAM "NY." Registered May 28, 1912. The New York Air Brake Company, New York, N. Y. Re-renewed May 28, 1952, to The New York Air Brake Company, New York and Watertown, N. Y., a corporation of New Jersey. Air Pumps and Parts Thereof. Class 23.

87,710. "BLITZ" AND DRAWING. Registered Aug. 6, 1912. Auburn Specialties Company. Re-renewed Aug. 6, 1952, to The National Bank of Auburn, as executor of the estate of David E. Belden, Auburn, N. Y., a banking corporation organized under the laws of the United States of America. Polishing-Cloths Impregnated With Polishing Material. Class 29.

286,948. "MARK TWAIN" ETC. AND DRAWING. Registered Sept. 8, 1931. Wolf Brothers & Co., Red Lion, Pa., a firm. Renewed Sept. 8, 1951. Cigars. Class 17.

287,165. J. N. ADAM & CO. Registered Sept. 15, 1931. J. N. Adam & Co., Buffalo, N. Y. Renewed Sept. 15, 1951, to Associated Dry Goods Corporation, New York, N. Y., a corporation of Virginia. Candy. Class 46.

287,168. "VITAMONT", REPRESENTATION OF FISH AND DRAWING. Registered Sept. 15, 1931. Vitamont Sales Company, Butte, Mont., a corporation of Montana. Renewed Sept. 15, 1951. Fish Food. Class 46.

287,169. "VITAMONT", REPRESENTATION OF FOX AND DRAWING. Registered Sept. 15, 1931. Vitamont Sales Company, Butte, Mont., a corporation of Montana. Renewed Sept. 15, 1951. Fox Food. Class 46.

287,170. "VITAMONT", REPRESENTATION OF CAT AND DRAWING. Registered Sept. 15, 1931. Vitamont Sales Company, Butte, Mont., a corporation of Montana. Renewed Sept. 15, 1951. Cat Food. Class 46.

287,234. "D S" WITHIN DIAMOND-SHAPED OUTLINE. Registered Sept. 15, 1931. Diamond Silver Company. Renewed Sept. 15, 1951, to Diamond Silversmiths, Limited, Lambertville, N. J., a corporation of New Jersey. Silver Plated Tableware. Class 28.

287,739. PENN-RAD. Registered Oct. 6, 1931. Radbill Oil Company. Renewed Oct. 6, 1951, to Renuzit Home Products Co., Philadelphia, Pa., a corporation of Pennsylvania. Motor Lubricating Oils. Class 15.

288,070. JUMBO. Registered Oct. 20, 1931. Jefferson Union Company, Inc., New York and Lockport, N. Y., and Lexington, Mass. Renewed Oct. 20, 1951, to Jefferson Union Company, Inc., Lexington, Mass., a corporation of Massachusetts. Metal Pipe Fittings. Class 13.

288,155. MISSION. Registered Oct. 20, 1931. California Crushed Fruit Corporation, now by change of name Mission Dry Corporation, Ltd. Renewed Oct. 20, 1951, to Mission Dry Corporation, Los Angeles, Calif., a corporation of Delaware. Nonalcoholic, Maltless Beverages Sold as Soft Drinks and Ginger Ale. Class 45.

289,728. "DIXIE STAR COAL" AND DESIGN. Registered Dec. 1, 1931. Black Star Coal Company. Renewed Dec. 1, 1951, to Black Star Coal Corporation, Louisville, Ky., a corporation of Kentucky. Coal. Class 1.

290,038. FERRO-COPRAL. Registered Dec. 22, 1931. Brewer & Company Inc., Worcester, Mass., a corporation of Massachusetts. Renewed Dec. 22, 1951. Tonic for the Treatment of Anemia and Allied Conditions. Class 18.

290,067. HY-CONE. Registered Dec. 22, 1931. Air Reduction Sales Company. Renewed Dec. 22, 1951, to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York. Gas Mixture Used in Torches for Cutting Metals. Class 6.

290,344. FREE-FLEX COMPACT. Registered Jan. 5, 1932. Poirette Corsets, Inc., New York, N. Y., a corporation of New York. Renewed Jan. 5, 1952. Corsets, Brassières, and Combinations of the Same. Class 39.

290,376. CARMET. Registered Jan. 5, 1932. Ludlum Steel Co., Watervliet, N. Y. Renewed Jan. 5, 1952, to Allegheny Ludlum Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania. Hard Metal Composition for Use in Tools, Dies and Parts Thereof. Class 14.

290,513. "ALBO" ETC. AND DRAWING. Registered Jan. 5, 1932. Hijos De Carlos Albo, Candas, Arena, Lastres, Spain, and New York, N. Y. Renewed Jan. 5, 1952, to Hijos De Carlos Albo S. A., Santona, Spain, a corporation organized under the laws of Spain. Preserved, Pickled, Salted, and Canned Fish. Class 46.

290,666. "CONSTABULARY" AND DRAWING. Registered Jan. 12, 1932. Wellington Sears Company, Boston, Mass. Renewed Jan. 12, 1952, to Wellington Sears Company, New York, N. Y., a corporation of Massachusetts. Twilled Piece Goods. Class 42.

290,667. "POLICIA" AND DRAWING. Registered Jan. 12, 1932. Wellington Sears Company, Boston, Mass. Renewed Jan. 12, 1952, to Wellington Sears Company, New York, N. Y., a corporation of Massachusetts. Twilled Piece Goods. Class 42.

290,757. CLEANUM. Registered Jan. 12, 1932. Harriet A. Hinckley, doing business as Bennett Manufacturing Company, Springfield, Mass. Renewed Jan. 12, 1952, to Joseph Diemente, New Britain, Conn. Cleaning Preparation in Paste, Cream, or Liquid Form for Cleaning Kid Gloves, Shoes, Hand-Bags, and Leather Goods Generally, Including Washable Kid Gloves. Class 52.

290,890. COME BACK. Registered Jan. 19, 1932. Z. Asamen, Brawley, Calif. Renewed Jan. 19, 1952, to Asamen Brothers, Westmorland, Calif., a partnership. Fresh Deciduous Fruits, Fresh Persian Melons, Fresh Citrus Fruits, Etc. Class 46.

291,211. "SPECTAPHONE" WITH HEAVY UNDERLINE. Registered Feb. 2, 1932. Sonotone Corporation, New York, N. Y. Renewed Feb. 2, 1952, to Sonotone Corporation, Elmsford, N. Y., a corporation of New York. Electromagnetic Devices for Aiding Hearing. Class 44.

291,388. HEMOPLASTIN. Registered Feb. 9, 1932. Parke, Davis & Company, Detroit, Mich., a corporation of Michigan. Renewed Feb. 9, 1952. Preparation for the Treatment of Blood Hemorrhage. Class 18.

291,623. REPRESENTATION OF BLANKET WITH PAIR OF CONTRASTING STRIPES, ETC. Registered Feb. 23, 1932. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by Royal Charter. Renewed Feb. 23, 1952. Woolen Blankets. Class 42.

291,624. REPRESENTATION OF BLANKET WITH PAIR OF CONTRASTING STRIPES, ETC. Registered Feb. 23, 1932. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by Royal Charter. Renewed Feb. 23, 1952. Woolen Blankets. Class 42.

291,625. REPRESENTATION OF BLANKET WITH PAIR OF CONTRASTING STRIPES, ETC. Registered Feb. 23, 1932. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by Royal Charter. Renewed Feb. 23, 1952. Woolen Blankets. Class 42.

291,636. REPRESENTATION OF BLANKET WITH PAIR OF CONTRASTING STRIPES, ETC. Registered Feb. 23, 1932. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by Royal Charter. Renewed Feb. 23, 1952. Woolen Blankets. Class 42.

291,637. REPRESENTATION OF BLANKET WITH PAIR OF CONTRASTING STRIPES, ETC. Registered Feb. 23, 1932. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by Royal Charter. Renewed Feb. 23, 1952. Woolen Blankets. Class 42.

291,638. REPRESENTATION OF BLANKET WITH PAIR OF CONTRASTING STRIPES, ETC. Registered Feb. 23, 1932. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by Royal Charter. Renewed Feb. 23, 1952. Woolen Blankets. Class 42.

291,639. REPRESENTATION OF BLANKET WITH PAIR OF CONTRASTING STRIPES, ETC. Registered Feb. 23, 1932. The Governor and Company of Adventurers of England Trading into Hudson's Bay, trading as Hudson's Bay Company, London, England, a corporate body created by Royal Charter. Renewed Feb. 23, 1952. Woolen Blankets. Class 42.

292,347. "A VARINA" ETC. AND DRAWING. Registered Mar. 15, 1932. Brandão & Companhia, Limitada, Ovar, Portugal. Renewed Mar. 15, 1952, to Brandao & Companhia, Limitada, Matozinhos, Portugal, a corporation organized under the laws of Portugal. Canned, Pickled, Salted, Smoked, and Preserved Fish; Canned Shellfish, Etc. Class 46.

292,369. 999. Registered Mar. 15, 1932. Halcomb Steel Company, Geddes, Syracuse, N. Y. Renewed Mar. 15, 1952, to Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey. High Speed Steel. Class 14.

292,370. 95. Registered Mar. 15, 1932. Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey. Renewed Mar. 15, 1952. High Speed Steel. Class 14.

292,371. FRESH-ETTE. Registered Mar. 15, 1932. The Enterprise Aluminum Company, Massillon, Ohio, a corporation of Ohio. Renewed Mar. 15, 1952. Metal Canisters. Class 2.

292,590. KAYSERETTES. Registered Mar. 15, 1932. Julius Kayser & Co., New York, N. Y., a corporation of New York. Renewed Mar. 15, 1952. Ladies' Underwear. Class 39.

292,632. REPRESENTATION OF STAR. Registered Mar. 22, 1932. United States Gypsum Company, Chicago, Ill., a corporation of Illinois. Renewed Mar. 22, 1952. Calcined Gypsum, Wall Board, and Plaster Board. Class 12.

292,755. "LA BELLE NO. 24" ETC. Registered Mar. 29, 1932. Crucible Steel Company of America, New York, N. Y., a corporation of New Jersey. Renewed Mar. 29, 1952. Die Steel in the Form of Bars, Forgings, Die Blocks, Sheets, Plates, and Rings. Class 14.

292,832. ODIN. Registered Mar. 29, 1932. The Deisel-Wemmer-Gilbert Corporation. Renewed Mar. 29, 1952, to D W G Cigar Corporation, Detroit, Mich., a corporation of Ohio. Cigars. Class 17.

292,991. STURDYMAN. Registered Apr. 5, 1932. Alfred Decker & Cohn, Inc. Renewed Apr. 5, 1952, to Society Brand Clothes, Inc., Chicago, Ill., a corporation of Illinois. Overcoats for Men and Men's Suits, Etc. Class 39.

293,168. BRACER. Registered Apr. 12, 1932. Lamont, Corliss & Company. Renewed Apr. 12, 1952, to Nestlé's Chocolate Company, Inc., New York, N. Y., a corporation of New York. Prepared Edible Chocolate. Class 46.

293,409. MUCILIN. Registered Apr. 19, 1932. Thomas Aspinall Limited, Bolton, England, a company organized under the laws of Great Britain and Northern Ireland. Renewed Apr. 19, 1952. Insect-Repelling Preparations and Waterproof Dressings for Fishing Lines and for Fishing Flies. Class 6.

293,597. "PHILO" ETC. AND DRAWING. Registered May 3, 1932. Ohio Ferro-Alloys Corporation, Canton, Ohio, a corporation of Ohio. Renewed May 3, 1952. Ferro-Alloys—Namely, Ferrosilicon, All Grades, Ferrochrome, Etc. Class 14.

294,100. SCOTCH GRAIN. Registered May 17, 1932. William Atkin Co., Inc., New York, N. Y., a corporation of New York. Renewed May 17, 1952. Men's and Boys' Dress, Negligee, and Work Shirts; Etc. Class 39.

294,106. SAXLEIGH. Registered May 17, 1932. Alfred Decker & Cohn, Inc. Renewed May 17, 1952, to Society Brand Clothes, Inc., Chicago, Ill., a corporation of Illinois. Men's Suits, Including Coats, Vests, Trousers, Etc. Class 39.

294,132. DUOPLAN. Registered May 17, 1932. Etablissements Ed. Jaeger, Levallois-Perret, France. Renewed May 17, 1952, to Etablissements Ed. Jaeger, Levallois-Perret, Seine, France, a joint-stock company organized under the laws of the French Republic. Horological Instruments, Watches of All Kinds, Clocks, Wall-Clocks, Chimney-Clocks, Table-Clocks, Time-Pieces, Chronographs and Chronoscopes. Class 27.

294,136. PERFO-GRIP. Registered May 17, 1932. Kenneth Smith, Kansas City, Mo. Renewed May 17, 1952. Golf Clubs and Parts of Golf Clubs. Class 22.

294,184. KRISCUT. Registered May 24, 1932. Walter F. Duffy, doing business as Acme Utility Co., Franklin, N. H. Renewed May 24, 1952. Meat Tendering Machines. Class 23.

294,202. PHOTRONIC. Registered May 24, 1932. Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey. Renewed May 24, 1952. Light Sensitive Cells. Class 21.

294,471. PYRA-COTE. Registered May 31, 1932. Vestal Chemical Co. Renewed May 31, 1952, to Vestal Laboratories, Inc., St. Louis, Mo., a corporation of Missouri. Floor Preparations, Namely, Floor Waxes, Floor Polishes, and a Preparation for Sealing and Finishing Surfaces of Floors. Class 4.

294,507. RE-JUV-NAL. Registered May 31, 1932. Hillyard Chemical Company, St. Joseph, Mo., a corporation of Missouri. Renewed May 31, 1952. Cleaning Compound for Wood and Other Kinds of Floors. Class 52.

294,531. TYBURN. Registered May 31, 1932. Alfred Decker & Cohn, Inc. Renewed May 31, 1952, to Society Brand Clothes, Inc., Chicago, Ill., a corporation of Illinois. Men's Suits, Including Coats, Vests, Trousers, Etc. Class 39.

294,545. MAYFAIR. Registered May 31, 1932. Diana Manufacturing Company, Green Bay, Wis., a corporation of Wisconsin. Renewed May 31, 1952. Sanitary Pads. Class 44.

294,678. "HANKACHIF FELT" WITHIN OVAL DESIGN. Registered June 7, 1932. Hodshon-Berg, Incorporated, Norwalk, Conn., and New York, N. Y. Renewed June 7, 1952, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Felt Hats for Men and Women. Class 39.

294,706. TAMBO. Registered June 7, 1932. American Woolen Company, Boston, Mass., and New York, N. Y. Renewed June 7, 1952, to American Woolen Company, New York, N. Y., a corporation of Massachusetts. Woolen Piece Goods. Class 42.

294,818. PINEOLEUM. Registered June 7, 1932. The Pineoleum Company, New York, N. Y. Renewed June 7, 1952, to Baybank Drug Co., Inc., Richmond Hill, Long Island, N. Y., a corporation of New York. Medicinal Tablets for Use in the Treatment of Such Diseases or Disorders as Constipation, Biliousness, Etc. Class 18.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

303,697. "BUCK-TAN" AND REPRESENTATION OF MULE HEAD. Registered June 6, 1933. Wells-Lamont-Smith Corporation, Minneapolis, Minn. Work Gloves of Fabric and Combined Fabric and Leather. Class 39. Canceled Feb. 20, 1952. Sec. 7(d).

344,035. LIVAGLOBIN. Registered Mar. 9, 1937. The Gifford Company, New York, N. Y. Medicine for the Treatment of Anemia. Class 18 (formerly Class 6). Canceled Feb. 15, 1952. Canc. No. 5710.

347,809. OLD NEIGHBOR. Registered July 6, 1937. Gus Singer, Denver, Colo. Whiskey. Class 49. Canceled Feb. 20, 1952. Sec. 7(d).

371,003. "A THOROUGHBRED ON WHEELS" AND DESIGN. Registered Sept. 12, 1939. Frank Bertucci, Malverne, N. Y. Automobiles. Class 19. Canceled Feb. 15, 1952. Canc. No. 5700.

404,909. CREPE CASBA. Registered Dec. 28, 1943. Kluger, A Limited Partnership, New York, N. Y. Rayon Piece Goods. Class 42. Canceled Feb. 29, 1952. Sec. 18.

517,559. SNAPON. Registered Nov. 8, 1949. Martin M. Stekert, New York, N. Y. Plastic Sleeves or Guards for Protecting Electric Cables. Class 21. Canceled Feb. 29, 1952. Canc. No. 5558.

541,242. YALE TUFFY. Registered Apr. 17, 1951. Cronow Watch Co., Inc., New York, N. Y. Watches. Class 27. Canceled Mar. 3, 1952. Sec. 7(d).

542,181. SEW HANDY. Registered May 8, 1951. Dorothy Cahn, Highland Park, Ill. Sewing Boards. Class 40. Canceled Feb. 29, 1952. Canc. No. 5803.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

292,083. REX. Registered Mar. 1, 1932. Chain Belt Company, Milwaukee, Wis. Belt and Chain Take-Ups and Tighteners, Apron and Pan Conveyers and Parts Thereof, Etc. Class 23. Amended as follows: In the statement, column 2, line 21, after "thereof," *conveyor and power transmission sprocket chains.* is inserted.

346,154. RESTO-CRETE. Registered May 18, 1937. Western Waterproofing Company, Detroit, Mich. Waterproof and Weatherproofing Compositions—Namely, Cementitious Materials Adapted for Use in Connection With Waterproofing and Weatherproofing Building Structures. Class 12. Restricted under the provisions of section 18 of the Trade-Mark Act of 1946 for that area of the United States excluding the area comprising the States of Minnesota, North Dakota, South Dakota, Nebraska, Colorado, New Mexico, Texas, Oklahoma, Kansas, Missouri, Arkansas, Louisiana, Mississippi, Alabama, Georgia, Florida, South Carolina, North Carolina, Tennessee; also Iowa (excepting the counties of Lee, Des Moines, Louisa, Muscatine, Scott, Clinton, Jackson, Dubuque, Clayton, and Allamakee); that part of Illinois lying south of the northern boundary

lines of the counties of Hancock, McDonough, Fulton, Tazewell, McLean, Ford, and Vermilion; in Indiana the counties of Sullivan, Greene, Knox, Daviess, Martin, Gibson, Pike, Dubois, Posey, Vanderburgh, Warrick, and Spencer; and Virginia (except the counties of Fairfax and Prince William), by order of the Commissioner dated Mar. 4, 1952, following decision on Concurrent Use Proceeding No. 67, *Western Waterproofing Company, Inc.* v. *Western Waterproofing Company.*

427,392. SM. Registered Feb. 11, 1947. Soreng-Manegold Company, now by change of name Soreng Manufacturing Corporation, Chicago, Ill. Solenoids (Both A. C. and D. C.), Electric Switches (Both A. C. and D. C.) for Automotive and Home Appliances, Automatic Switches and Circuit Breakers, Etc. Class 21. Corrected as follows: In the statement, column 2, lines 3 and 4, "The trade-mark has been continuously used in the business of said corporation since 1925." should be deleted and *The dominant portion of the trade-mark, namely, the letters "SM", has been continuously used in the business of said corporation since 1925, and the specific trade-mark as shown in the accompanying drawing has been continuously used in the business of said corporation since 1945.* should be inserted in lieu thereof.

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

189,215. LYDIA DARRAH. Registered Sept. 16, 1924. Renewed Sept. 16, 1944. Lydia Darrah Candy Shops, Inc. Candies. Class 46. New certificate under section 7(c) issued Apr. 1, 1952, to Lydia Darrah Candy Co., Minneapolis, Minn., a corporation of Minnesota.

365,833. LADY WAYNE. Registered Mar. 21, 1939. Wayne University of Beauty Culture, Inc. Foot Cream, Pore Cream, Skin Freshener for Dry Skin, Cleansing Cream, Hand Cream, Etc. Class 51 (formerly Class 6). New certificate under section 7(c) issued Apr. 1, 1952, to Morton Manufacturing Corporation, Lynchburg, Va., a corporation of Virginia.

386,714. SLENDERELLA. Registered Apr. 22, 1941. Erika Schneider. Sugarless Foods for Health Purposes—Specifically, Candies. Class 46. New certificate under section 7(c) issued Apr. 1, 1952, to Slenderella Systems, Inc., New York, N. Y., a corporation of Delaware.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 364,870. Registered Feb. 14, 1939. Atlantic Sponge & Chamois Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

SATAN



For Chamois Skins.
Claims use since July 29, 1938.

Reg. No. 371,157. Registered Sept. 19, 1939. Atlantic Sponge & Chamois Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

ATLANTIC



For Sponges and Chamois Skins.
Claims use since Feb. 1, 1939.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 37,373. Registered Nov. 26, 1901. Ashton & Parsons, Ltd., London, England. Republished by Phosferine (Ashton & Parsons), Limited, London and St. Helens, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland.

PHOSFERINE

For Pills, Tablets, and Liquids for Use as a Remedy for Weakness, Lassitude, Loss of Appetite, Rheumatism, Gout, Neuralgia, Toothache, Nervousness, and Nerve Pains.
Claims use since about January 1893.

Reg. No. 287,399. Registered Sept. 22, 1931. Brewer & Company, Inc., Worcester, Mass., a corporation of Massachusetts. Republished by registrant.

COPRAL

For General Tonic.
Claims use since Dec. 9, 1928.

CLASS 19

VEHICLES

Reg. No. 407,065. Registered May 16, 1944. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.



For Self-Propelled and Manually Propelled Rail Cars.
Claims use since Sept. 1, 1928.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 140,593. Registered Mar. 22, 1921. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

FAIRBANKS-MORSE

For Electric Dynamos and Motors.
Claims use since Jan. 17, 1908.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 178,074. Registered Jan. 8, 1924. Western Pump Company, Davenport, Iowa. Republished by Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois.

Westco

For Liquid Pumps, Pumping Systems, and Parts of Said Pumps and Pumping Systems.
Claims use since Mar. 15, 1919.

Reg. No. 240,482. Registered Mar. 27, 1928. Pomona Manufacturing Company, Pomona, Calif. Republished by Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois.



The words "Oceans of Water" are disclaimed apart from the mark as shown.
For Plunger Pumps and Turbine Pumps.
Claims use since 1902.

Reg. No. 405,630. Registered Feb. 8, 1944. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

Z

For Internal Combustion Engines.
Claims use since Oct. 1, 1915.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 425,696. Registered Dec. 3, 1946. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

FAIRBANKS-MORSE

For Weighing Machines, Scales, Balances, and Parts Thereof.
Claims use since June 10, 1944.

Reg. No. 443,058. Registered July 12, 1949. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.



For Weighing Machines, Scales, Balances, and Parts Thereof.
Claims use since Oct. 22, 1945.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Reg. No. 262,180. Registered Oct. 1, 1929. Max Kronstadt, doing business as Bristol Seamless Ring Co., New York, N. Y. Republished by Bristol Seamless Ring Company, New York, N. Y., a firm.



For Finger Rings.
Claims use since Feb. 1, 1929.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 290,681. Registered Jan. 12, 1932. Carnac Cottons, Inc., New York, N. Y. Republished by Carnac, Inc., New York, N. Y., a corporation of Delaware.

CARNAC
PERMAFIT

For Cotton Piece Goods.
Claims use since Sept. 9, 1931.

Reg. No. 290,682. Registered Jan. 12, 1932. Carnac Cottons, Inc., New York, N. Y. Republished by Carnac, Inc., New York, N. Y., a corporation of Delaware.

PERMAFIT

For Cotton Piece Goods.
Claims use since Sept. 9, 1931.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 108,987. Registered Mar. 14, 1916. Columbia River Packers Association, Astoria, Oreg. Republished by Columbia River Packers Association, Inc., Astoria, Oreg., a corporation of Oregon.



For Canned Salmon.
Claims use since 1885.

Reg. No. 113,692. Registered Oct. 31, 1916. Columbia River Packers Association, Astoria, Oreg. Republished by Columbia River Packers Association, Inc., Astoria, Oreg., a corporation of Oregon.



For Canned Salmon.
Claims use since 1885.

Reg. No. 279,235. Registered Jan. 13, 1931. Frugone & Preve, Genoa, Italy. Republished by Ditta Frugone & Preve S. P. A., Genoa, Italy, a limited company organized under the laws of Italy.



For Rice.
Claims use since Mar. 31, 1926.

Reg. No. 288,356. Registered Oct. 27, 1931. St. Martin Preserving Co. Limited, London, England, a limited liability company of Great Britain. Republished by registrant, present address Maidenhead, Berkshire, England.



The words "Care & Quality" and "Slough & London" are disclaimed apart from the mark as shown.

For Jams, Marmalades, Preserves (for Food), Christmas Pudding, Mincemeat, Preserved, Canned, Bottled, Crystalized, and Dried Fruits, Vegetables, Fish, and Meats.

Claims use since on or about Dec. 24, 1927.

Reg. No. 335,010. Registered May 19, 1936. Frederick C. Peters, Goulds, Fla., assignor to F. C. Peters, Inc. Republished by Tropical Agriculture Co-Operative Association, Goulds, Fla., a corporation of Florida.

TROPICAL

For Potatoes.
Claims use since Mar. 1, 1935.

Reg. No. 349,456. Registered Aug. 31, 1937. F. C. Peters, Inc., Goulds, Fla. Republished by Tropical Agriculture Co-Operative Association, Goulds, Fla., a corporation of Florida.

FARSOUTH

For Potatoes.
Claims use since Feb. 19, 1936.

Reg. No. 364,787. Registered Feb. 14, 1939. F. C. Peters, Inc., Goulds, Fla. Republished by Tropical Agriculture Co-Operative Association, Goulds, Fla., a corporation of Florida.

TROPICAL

For Fresh Vegetables.
Claims use since Aug. 19, 1938.

Reg. No. 364,788. Registered Feb. 14, 1939. F. C. Peters, Inc., Goulds, Fla. Republished by Tropical Agriculture Co-Operative Association, Goulds, Fla., a corporation of Florida.

FARSOUTH

For Fresh Vegetables.
Claims use since Aug. 19, 1938.

Reg. No. 366,124. Registered Mar. 28, 1939. F. C. Peters, Inc., Goulds, Fla. Republished by Tropical Agriculture Co-Operative Association, Goulds, Fla., a corporation of Florida.

SUB-TROPICAL

For Fresh Vegetables.
Claims use since Nov. 16, 1938.

Reg. No. 366,569. Registered Apr. 18, 1939. F. C. Peters, Inc., Goulds, Fla. Republished by Tropical Agriculture Co-Operative Association, Goulds, Fla., a corporation of Florida.

HORIZON

For Fresh Vegetables and Potatoes.
Claims use since Nov. 16, 1938.

Reg. No. 366,571. Registered Apr. 18, 1939. F. C. Peters, Inc., Goulds, Fla. Republished by Tropical Agriculture Co-Operative Association, Goulds, Fla., a corporation of Florida.

SOU' EAST

For Fresh Vegetables and Potatoes.
Claims use since Nov. 16, 1938.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Reg. No. 291,220. Registered Feb. 2, 1932. Cussons, Sons & Company, Limited, Kersal, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Republished by registrant.

CHUBBY

For Shaving Soap.
Claims use since September 1930.

CLASS 52

DETERGENTS AND SOAPS

Reg. No. 444,193. Registered Sept. 5, 1950. Barton Chemical Company, Chicago, Ill., a co-partnership. Republished by registrant.

SAVADAY SUDS

The word "Suds" is disclaimed apart from the mark as shown.

For Cleaning Preparation Having Detergent and Cleansing Properties for Household, Laundry, Dishwashing, and Other Uses.

Claims use since Sept. 1, 1945.

PATENTS

GRANTED APRIL 1, 1952

2,590,832
PROCESS FOR PRODUCING ALUMINA HYDRATE SOLS

Max Fredrick Bechtold, Kennett Square, Pa., and Henry Moroni Stark, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 20, 1948, Serial No. 28,277
9 Claims. (Cl. 252—313)

1. A process for the preparation of colloidal alumina hydrate solutions which comprises precipitating, with a water-soluble base, to a final pH of 7 to 9.5, hydrous alumina hydrate from an aqueous solution of an aluminum salt of a monobasic acid, washing the precipitated alumina hydrate until it contains but 1 to 5% by weight of the anion originally present in the aluminum salt, heating an aqueous slurry of the alumina hydrate containing not less than 1% and not more than 5% by weight of said hydrate of salt anion at 60–95° C. for one to four hours and subjecting the resulting sol to a shearing stress of at least 0.08 pound per square inch.

2,590,834
PLASTICIZED POLYVINYLIDENE CHLORIDE COMPOSITIONS

Donald Faulkner, Cambridge, and Johann Josef Peter Staudinger, Ewell, England, assignors to The Distillers Company, Limited, Edinburgh, Scotland, a British company

No Drawing. Application December 3, 1946, Serial No. 713,850. In Great Britain December 6, 1945
10 Claims. (Cl. 260—33.6)

1. A plasticized polymeric material, said material consisting essentially of a major proportion of vinylidene chloride units in its molecular structure and at least one low polymer of the class consisting of dimers and trimers of a compound selected from the group consisting of styrene, alpha-methyl styrene, nuclear methyl substituted styrenes and nuclear chlorine substituted styrenes.

2,590,835
ALLOY STEELS

Henry William Kirkby and Charles Sykes, Sheffield, England, assignors, by mesne assignments, to Firth-Vickers Stainless Steels Limited, Sheffield, England, a British company

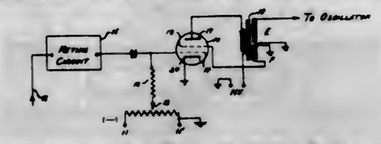
No Drawing. Application November 10, 1949, Serial No. 126,698. In Great Britain December 16, 1948
2 Claims. (Cl. 75—126)

1. A forgeable ferritic alloy steel possessing high creep resistance at temperatures at least up to 700° C., and having a composition characterised by the absence of nickel above a proportion of 1.5% and by the presence as essential constituents of 0.05–0.5% carbon, 4–20% chromium, 0.5–3% molybdenum interchangeable at least in part with tungsten, an effective proportion up to 2.5% columbium, an effective proportion up to 0.25% nitrogen, an effective proportion up to 0.5% boron, 0.1–2% vanadium, and the balance substantially iron.

2,590,836
PLATE KEYER FOR RADAR TRANSMITTERS

Warren M. Andrew, Washington, D. C.

Application September 7, 1943, Serial No. 501,454
4 Claims. (Cl. 250—27)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

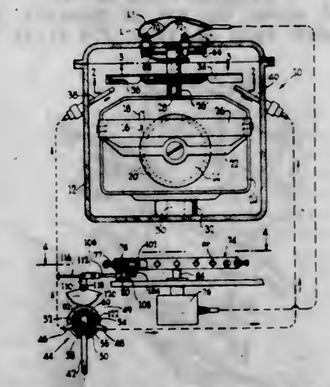


4. An impulse generator comprising an inductive winding, an electror discharge device having anode, cathode, control and screen grid electrodes, a source of plate supply voltage connected to said winding and the anode cathode discharge path of said device in series, bias means connected between the control and cathode electrodes of said device for holding said device non-conducting, means coupled to the control electrode to establish momentary conduction in said device to thereby produce an inductive oscillation in said winding, and means coupling said inductive oscillation to the screen grid of said device in such phase as to augment the current flow through said device during conduction thereof.

2,590,837
DIRECTIONAL GYROSCOPE

Meyer H. Axler, United States Army, Bronx, N. Y.

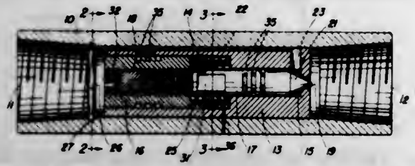
Application October 3, 1944, Serial No. 556,945
14 Claims. (Cl. 74—5.4)



1. A directional gyroscope comprising a rotor, means to spin said rotor about a horizontal axis, a gimbal mounting for said rotor including means to permit rotation of the spinning axis of the rotor about a horizontal axis and about a vertical axis, the projections of said horizontal axes on a horizontal plane being perpendicular to one another, and means to apply about said vertical axis a predetermined torque to said mounting equal in value and opposite in direction to the torque exerted at any given heading by the directional gyroscope as it tends to precess, said means including a mechanism mounted independently of said gimbal for directing a stream

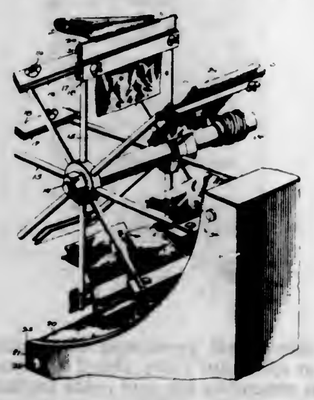
of a fluid medium and means movable with the gimbal and lying in the path of said stream, said last named means being so arranged that when the stream impinges thereon a torque is created about the precessional axis of the rotor.

2,590,838
AUTOMATIC SHUTOFF VALVE
Raymond H. Boggs, Coronado, Calif.
Application May 14, 1947, Serial No. 747,989
2 Claims. (Cl. 137—153)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



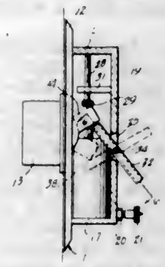
1. A valve comprising a body having an inlet, an outlet, and a bore communicating therebetween, a portion of said bore being of reduced cross section, a valve member having portions of cross section corresponding to the portions of said bore and movable therein, a valve port in said body located between said outlet and the reduced cross section portion of said bore, said port being blocked by said valve member upon movement thereof toward said port, fluid passage means communicating between said inlet and said bore portion of reduced cross section, and a spring biasing said member away from said port.

2,590,839
FABRIC WEAR TESTER
Harry F. Clapham, Wilmington, Del.
Application November 20, 1946, Serial No. 711,077
9 Claims. (Cl. 73—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A machine for testing textile material and the like, comprising a horizontal hub, means for imparting rotary motion to said hub, a rigid elongated support radially extending from said hub, a clamp at the outer terminal of said rigid elongated radial support for travel in a circular path, said clamp having a pair of reciprocable clamp jaws for holding the free ends of a folded sample or textile material with the bight of said sample protruding outwardly from said clamp, an abrasive surface spaced from said hub out of the path of said clamp and in the path of travel of the bight of said textile sample, whereby upon rotation of said hub said textile sample is impelled by centrifugal force against said abrasive surface.

2,590,840
TIMER SWITCH PLATE FOR TOGGLE SWITCHES
Thomas L. Clayton, Wheeling, W. Va.
Application May 18, 1951, Serial No. 227,049
2 Claims. (Cl. 200—34)



2. A timing attachment for a wall switch of the toggle type comprising a housing adapted to be secured to a switch plate over the toggle lever of the switch, a cylinder in said housing, said cylinder having a restricted air escape aperture in its end portion, a needle valve adjustably mounted in said aperture, a piston slidably positioned in said cylinder, an inwardly facing elastic cup member secured to said piston and engaging the inside wall surface of said cylinder, an arm secured to said piston and being arranged to engage said toggle lever, spring means biasing said piston inwardly, said arm being arranged to rotate said toggle lever in one direction responsive to inward movement of said piston in said cylinder, and an operating lever pivoted to the front wall of said housing, being drivingly engageable with said toggle lever to rotate said toggle lever in the opposite direction, and being arranged to lockingly engage said toggle lever when said toggle lever has been rotated through its operating angle.

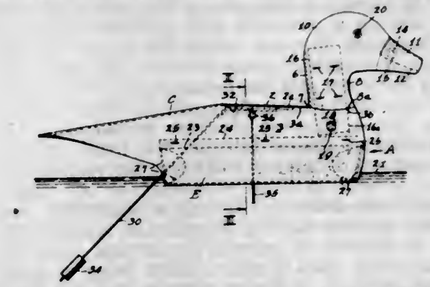
2,590,841
MANUFACTURE OF PYRIDOXIN
Aaron Cohen, Welwyn Garden City, England, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application October 1, 1948, Serial No. 52,401. In Great Britain October 9, 1947
4 Claims. (Cl. 260—297)

1. A process which comprises reducing a member selected from the group consisting of 2-methyl-3-hydroxy-4,5-dicarbalkoxy-pyridine, 2-methyl-3-alkoxy-4,5-dicarbalkoxy-pyridine, and 2-methyl - 3 - benzyloxy - 4,5 - dicarbalkoxy - pyridine with lithium aluminum hydride to produce the corresponding 4,5-di-(hydroxymethyl)-pyridine.

2,590,842
DECOY
William G. Colgan, Oakland, Calif.
Application February 19, 1946, Serial No. 648,576
8 Claims. (Cl. 43—3)

4. In a decoy; a body, including a back and spaced-apart sides; the front, rear and bottom of the body being open to define an inverted and

uninterrupted channel extending lengthwise through the body; independent floats removably



secured to the bottom portions of the sides; and a head surmounting the body.

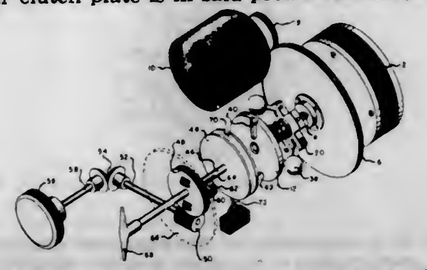
2,590,843
STEELMAKING PROCESS
Frederick Cremer, Chicago, Ill.
Application March 19, 1948, Serial No. 15,853
10 Claims. (Cl. 75—54)



1. The method of producing an unmolded porous nodule comprising a homogeneous mixture of pig iron and iron oxide for the production of steel of a desired carbon content, said method comprising introducing pig iron which is substantially free from objectionable amounts of sulfur, phosphorus and silicon for steel making, in a molten state into an elongated rotary furnace having a basic refractory lining of non-circular cross-section which is twisted longitudinally, introducing onto the surface of the molten pig iron powdered iron oxide in an amount such that the oxygen content of the said oxide is sufficient to react with some but not all of the carbon content in the iron, rotating the furnace on its longitudinal axis to subdivide the molten pig iron and the said oxide into a succession of closely spaced, shallow pools and to effect an alternate increase of the surface areas and a decrease of the depths and a decrease of the surface areas and an increase of the depths of the said pools and to simultaneously pass the pools successively through the furnace, thus effecting an intimate and uniform mixture of the said oxide and the molten pig iron, coincidentally and progressively cooling the mixture to a crystalline state, continuing the said movement of the furnace until the homogeneous mixture forms into discrete porous nodules, and discharging the nodules from the furnace.

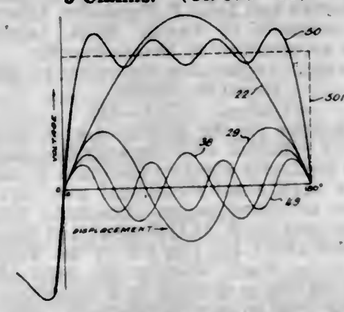
2,590,844
AUTOMATIC SELECTOR CLUTCH ASSEMBLY FOR SEARCH RECEIVERS
Joseph F. Curran, Neptune, N. J., assignor to the United States of America as represented by the Secretary of the Army
Application December 19, 1950, Serial No. 201,673
6 Claims. (Cl. 74—10.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A frequency selector device comprising an upper clutch plate and a lower clutch plate, said plates being normally disengaged, power means for rotating said upper plate at a predetermined speed, means associated with said upper plate responsive to the speed of rotation of said power means for controlling the spacing between said plates, means for rotatably positioning said lower clutch plate to a predetermined position, means for deenergizing said power means when said lower clutch plate is in said predetermined posi-



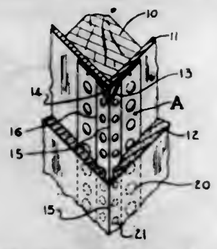
tion whereby the upper clutch plate is lowered to engage said positioned lower clutch plate, means for maintaining the plates in the engaged position, means for manually operating the engaged clutch plates, and means for simultaneously disengaging said clutch plates and reenergizing said power means.

2,590,845
SIGNAL TRANSFORMER
Robert S. Curry, Jr., Baldwin, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application June 20, 1945, Serial No. 600,603
3 Claims. (Cl. 318—30)



1. A data transmission system for use in a servomotor system comprising a transmitter adapted to be driven by a first data input device and a signal transformer unit adapted to be driven by a second data input device, said transmitter and transformer being of substantially like electrical design, said transmitter and transformer each including a stator having a field and a rotor mounted to rotate as a unit in the field of said stator, the rotor and stator of each unit including windings forming a different number of magnetic poles whereby to produce at least two signal voltage components in the rotor winding of said transformer having a different number of cycles of variation in magnitude throughout a given displacement between the rotors of the two units, the windings of the rotor of said transmitter being connected with a source of single phase alternating current, corresponding windings of the stators of said units being electrically connected together, and the windings of the rotor of the transformer being connected together across a pair of output taps whereby algebraically to combine the signal voltage components induced in the rotor windings of said transformer, and said output taps being connected to a voltage-responsive device.

2,590,846
PLASTER BASE
Richard H. Cutting, Cleveland Heights, Ohio
Application November 30, 1944, Serial No. 565,891
12 Claims. (Cl. 72—121)



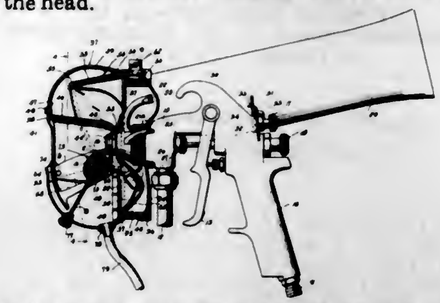
1. In a cornerbead of the character described, the combination of an outer member comprising a hard rigid porous absorbent plastic-like material sheet which will not swell or break down under contact with water moisture composed essentially of porous paper of fair strength and high absorbent properties impregnated with and bonded together by a thermo-setting resin and an inner member of ordinary paper and of less width than the outer member, said members being fixed together adjacent to their marginal edges only.

2,590,847
DYEING OF WOOL WITH HIGH-AFFINITY COLLOIDAL DYESTUFFS AND DI-AMMONIUM PHOSPHATE
John N. Dalton and John P. Ploubides, Lawrence, Mass., assignors to Pacific Mills, Lawrence, Mass., a corporation of Massachusetts
No Drawing. Application November 18, 1948, Serial No. 60,833
4 Claims. (Cl. 8—30)

1. The process for the dyeing of wool with the high affinity colloidal wool dyes which comprises forming a distinctly alkaline dye-bath by adding to water a high affinity colloidal wool dye and an amount of diammonium phosphate between about 0.1% and 0.5% of the weight of the bath and between about 2% and 6% of the weight of the wool to be dyed, wherein the high affinity colloidal wool dye is present as a dispersion, immersing the wool in said dye-bath at room temperature, heating the bath slowly below its boiling temperature for about one to one and one half hours while maintaining the pH of the bath distinctly alkaline, retaining dyestuff in dispersed form in the bath and inhibiting dyestuff fixation on the wool, whereby the wool fiber is swollen and the dyestuff particles are evenly distributed therethrough, and then bringing the bath to the boil and maintaining it at the boil as it becomes distinctly acid by the liberation of ammonia, thus causing fixation of the dyestuff particles on the wool evenly distributed therethrough.

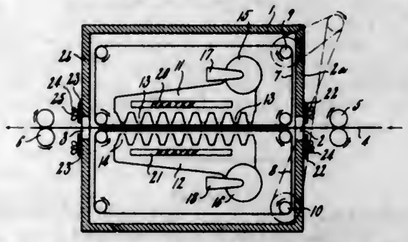
2,590,848
PAINT SPRAY GUN
Albert Di Stefano, Philadelphia, Pa.
Application August 25, 1948, Serial No. 46,079
14 Claims. (Cl. 299—122)

4. An attachment for a paint spray gun comprising a nozzle having a rotatable spray tip, a plurality of jet nozzles carried by said nozzle to receive air therefrom and directed rearwardly, an enclosure for said nozzle and jet nozzles comprising a circular plate mounted upon the spray gun behind the first nozzle and having outlet openings through which the jet nozzles are directed, a hollow head, connecting means between the peripheries of the head and the plate to allow the turning of the head on the axis of the nozzle tip, said head having a forward wall provided with an outlet opening through which the nozzle tip discharges, a coupling means between the said front wall of the head and the nozzle tip whereby turning of the head effects the corresponding turning of the tip, a filtering element partitioning the said enclosing means between the head and the back wall plate, an air deflector disposed transversely of and in close proximity to the nozzle tip, said air deflector having a forwardly and laterally curving surface disposed in front of the tip in a position to have a jet issuing from the tip pass over such surface, there being a space between said air deflector surface and the front wall of the head for the passage of a portion of the spray jet into the lower part of the head, said jet nozzles functioning to facilitate rearward movement of a part of the said portion of the spray jet, and drainage means for the lower part of the head.



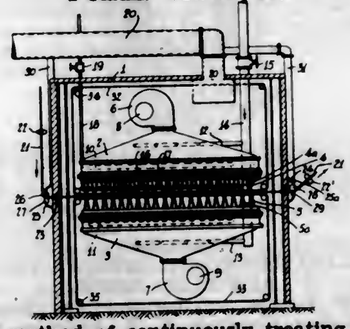
6. A structure of the character set forth in claim 4, with a pivotally mounted shutter for movement across the said outlet opening of the head, and means disposed upon the outer side of the head and connected through the head with the shutter for facilitating movement of the shutter and for maintaining the shutter in adjusted position relative to the head opening.

2,590,849
METHOD FOR DRYING FIBROUS SHEET MATERIAL
Julien Dungler, Basel, Switzerland
Application December 21, 1948, Serial No. 66,519
In France December 31, 1947
1 Claim. (Cl. 34—37)



The method of treating fibrous sheet material which contains an impregnating liquid and which is adapted to be moved through a substantially air-free heating enclosure; comprising the steps of impinging on spaced surface areas of said material jets of superheated steam conditioned with respect to its velocity to partly condense said superheated steam and to liberate enough latent heat therefrom on said material to thereby raise the temperature of the material to the boiling point of said liquid and to transform bound moisture within the material to vapor, which is forced by expansion within said material to the surface thereof, creating suction between said spaced surface areas to thereby draw off said vapor from said surface of said material, and reheating said vapor to arrive at the condition of said superheated steam.

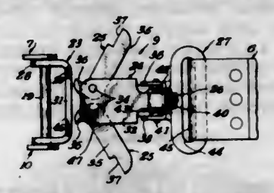
2,590,850
METHOD OF TREATING SHEET MATERIAL COATED WITH GELATINE
Julien Dungler, Basel, Switzerland
Application January 14, 1950, Serial No. 138,685
In France October 10, 1949
1 Claim. (Cl. 34—23)



The method of continuously treating lengthy sheet material to which gelaine containing liquid is applied and which is moved through a substantially air-free enclosure; comprising the steps of maintaining an atmosphere of superheated steam within said enclosure and at a predetermined average pressure slightly higher than asmospheric pressure, directing individual jets of superheated vapor upon spaced surface areas of said material, controlling the velocity of said jets so that the superheated steam is impacted upon the material and partially condenses thereon and sufficient latent heat is removed from the superheated steam to raise the temperature of said material to the boiling point of the liquid contained in said gelatine and substantially immediately vaporize said liquid to force vapor by expansion from said material to the outside thereof, moving the material rapidly through the enclosure at a rate at which the treatment is completed without deleterious effects on the material, evacuating said vapor adjacent and between said surface areas to thereby draw off said vapor therefrom, reheating said evacuated vapor to the conditions of said superheated vapor, and recirculating such superheated vapor for further impact upon said material.

2,590,851
QUICK-RELEASE BUCKLE
Edwin C. Elsner, North Hollywood, Calif., assignor to C. J. W. Corporation, North Hollywood, Calif., a corporation of California
Application July 10, 1948, Serial No. 38,004
4 Claims. (Cl. 24—211)

1. In a buckle, quick-release means comprising a bail-like member having an opening, a connector comprising a pair of spaced connected plates insertable into said opening, a pair of latch members between said plates and carried on separate pivots, each latch member having a laterally directed lug extending outward of the connector and adapted to have hooking engagement with the bail-like member after insertion through the opening in the latter, said latch members extending from their pivots in substantially parallel relationship when in hooked position, and a latch release member pivotally carried by one plate and having opposed ears engageable with the free ends of the latch members,



said release member extending toward and nesting adjacent to the bail-like member while the ears are engaged with the latch members, whereby inadvertent movement of the release member is obviated.

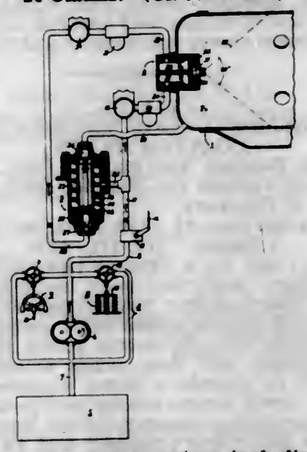
2,590,852
ESTERS OF ACYLATED LACTIC ACID
Martin L. Fein, Riverside, N. J., and Charles H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application November 20, 1947, Serial No. 787,261
11 Claims. (Cl. 260—345)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A plasticizer and modifier for polyvinylchloride-acetate resins being a compound corresponding to the general formula:

$$R{-}O{-}CO{-}CH(O{-}R'){-}CH_3$$

wherein R is a radical of the group consisting of butyl, tetrahydrofurfuryl, butoxyethyl, chloroethoxyethyl, and butoxyethoxyethyl, and R′ is the acyl radical of a fatty acid containing from 7 to 18 carbon atoms.

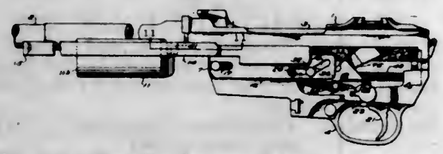
2,590,853
LIQUID FUEL METERING AND SPRAYING SYSTEM
Charles D. Fulton, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application October 16, 1945, Serial No. 622,604
10 Claims. (Cl. 60—39.28)



1. In a fuel burning system including a combustor, the combination of a duplex nozzle for

discharging fuel into said combustor and having primary slots and secondary slots, means for supplying fuel at a variable initial pressure, first conduit means connecting said supply means to the primary slots for delivering fuel to said slots at the initial pressure, second conduit means connecting said supply means to the secondary slots, and automatic metering means associated with said second conduit constructed and arranged to regulate the flow to the secondary slots as a preselected function of said initial pressure.

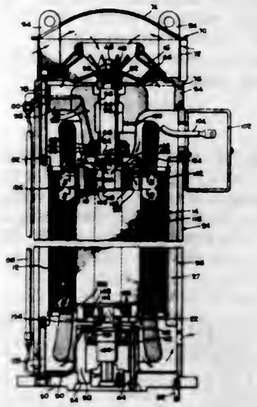
2,590,854
AUTOMATIC HAMMER SAFETY FOR AUTOMATIC GUNS
Alonzo F. Gaidos, Redwood City, Calif.
Application July 3, 1946, Serial No. 681,281
1 Claim. (Cl. 89—140)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In an automatic firearm having a receiver, a bolt reciprocable therein forwardly to and rearwardly from a battery position, a reciprocable operating member for the bolt and a spring biased hammer pivoted in said receiver and movable by the bolt to its cocked position, the improvement comprising, an actuating bar slidably mounted on the receiver adjacent the operating member, a pair of projections on said actuating bar respectively disposed in the path of rearward and forward movement of the operating member whereby said actuating bar is moved rearwardly as the operating member moves to counter-battery position and forwardly as the operating member moves to battery position, a hammer latch pivotally mounted on the receiver adjacent said hammer, a latching projection on said hammer latch engageable with said hammer in its cocked position, said actuating bar having a cam slot therein adjacent said hammer latch, a projecting stud on said hammer latch engageable in said cam slot, said cam slot being constructed and arranged to pivot said hammer latch to engage said latching projection with said hammer as the operating member moves into counter-battery position and to release said hammer as the operating member moves into battery position.

2,590,855
DYNAMOELECTRIC MACHINE AND COOLING MEANS
James M. Gaylord, San Marino, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Application June 23, 1950, Serial No. 170,003
6 Claims. (Cl. 171—252)

1. In a rotor for a dynamo-electric machine: a rotor body, said rotor body including a first group of laminations having cutout portions defining axial ducts in the outer radial portion of said rotor body; a second group of laminations adjacent said first group axially spaced therefrom to provide a pump chamber therebetween; spacer means sealing said pump chamber but permitting communication between said ducts and said pump chamber; and an inlet for cooling medium to said pump chamber and thereby said ducts radially inwardly from said ducts, said ducts opening at the end of said first group of laminations opposite from said

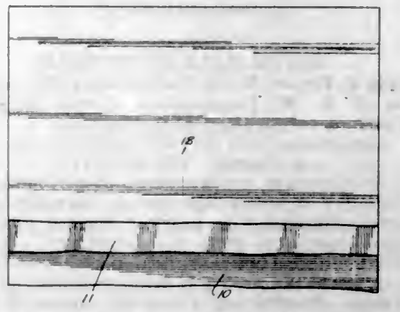


second group to permit egress of cooling medium radially outwardly of said ducts.

2,590,856
STABILIZATION OF DILUTE SOLUTIONS OF ALIPHATIC ACIDS
Frank P. Greenspan, Amherst, and Donald G. MacKellar, Kenmore, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y., a corporation of New York
No Drawing. Application May 26, 1949, Serial No. 95,588
5 Claims. (Cl. 260—502)

1. The method of stabilizing a bath used for bleaching, washing or germicidal purposes and comprising a dilute aqueous solution of an aliphatic peracid containing not more than about 4% by weight of said peracid and having a temperature of from 25° to 100° C. and having a pH of not less than about 4, said method comprising incorporating in said bath a stabilizing amount about 100 to about 1000 p. p. m. of a polymeric molecularly dehydrated phosphate having a molar ratio of R_2O to P_2O_5 not greater than 1.7 to 1 where R represents one or more alkali metals, hydrogen, ammonium, or any combination thereof.

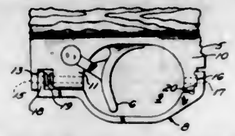
2,590,857
PHOTOGRAPHIC CARBON TISSUE
John F. Hansman and Melvin J. Jurisch, Chicago, Ill.; said Hansman assignor to said Jurisch
Application September 10, 1945, Serial No. 615,507
11 Claims. (Cl. 101—128.2)



1. The method which comprises providing a carbon tissue with a facial film of a water-insoluble transparent material containing a minor proportion of a hydrophilic material and an intermediate layer of a water-soluble colloid, sensitizing the tissue in an aqueous bath containing a sensitizing agent through the film, drying the tissue, exposing the tissue to an image, placing the film side of the tissue in adherent contact with a rigid support, removing the backing and surplus colloid from the tissue while on said support and while held by said film, then bringing a silk screen into adherent contact with the colloid while the material is still on the support, and finally stripping off the film.

11. A photographic carbon tissue comprising superposed layers consisting of a fibrous backing, an unsensitized coating comprising gelatin on the backing, and a thin porous film containing approximately equal amounts of nitrocellulose and a material of the class consisting of glycerine and diethylene glycol on the surface of the coating.

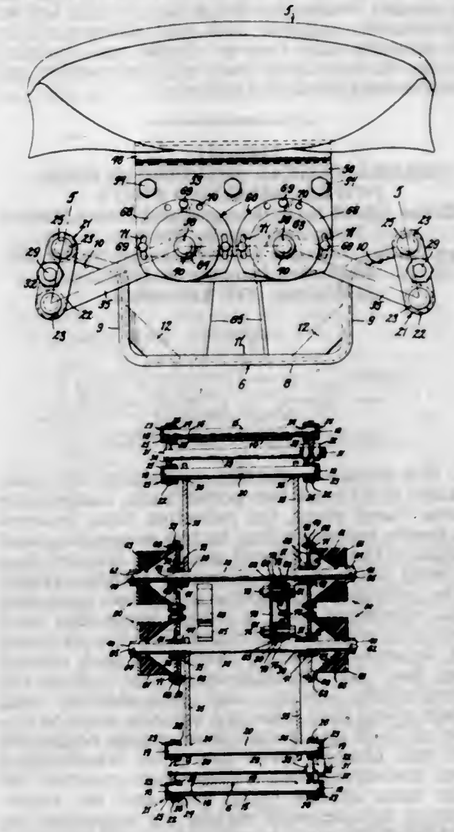
2,590,858
ROTATABLE TRIGGER GUARD FOR FIREARMS
Earle M. Harvey, Agawam, Mass., assignor to the United States of America as represented by the Secretary of War
Application April 28, 1949, Serial No. 90,214
3 Claims. (Cl. 42—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a firearm having a trigger and a trigger housing, the latter being provided with an arcuate opening at the bottom thereof into which the finger-engaging portion of the trigger extends, the combination of, an arcuate trigger guard having upwardly extending front and rear end portions rotatably secured to the trigger housing and arranged to straddle the arcuate opening therein, said trigger guard being thereby mounted for 180 degree movement between a trigger-protecting position wherein the inner surface of said trigger guard is diametrically opposed to the arcuate surface of the opening in the trigger housing and a trigger-exposing position wherein the inner surface of said trigger guard is parallel with and adjacent to the arcuate surface of the opening in the trigger housing, said trigger guard in either of said two positions arranged to lie within the outline formed by the sides of the firearm, means on the trigger housing and on said trigger guard arranged for cooperating engagement when said trigger guard is in either of said two positions, and resilient means for biasing said trigger guard rearwardly into said cooperating engagement with the trigger housing.

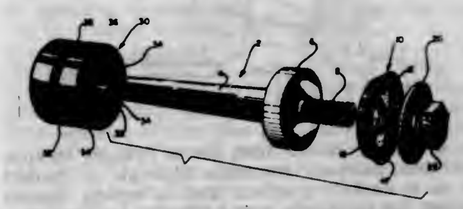
2,590,859
RESILIENT SEAT SUSPENSION
Albert F. Hickman, Eden, N. Y., assignor to Hickman Industries, Inc., Eden, N. Y., a corporation of New York
Application May 8, 1947, Serial No. 746,678
14 Claims. (Cl. 155—50)

1. A spring suspension for connecting the seat part and base part of a seat structure and comprising a pair of crank arms, a pair of axially spaced fulcrum bearings between said crank arms and one of said parts and fixed in said one of said parts, a rod fast to the outer end of said crank arms and arranged parallel with the axis of said bearings, a second rod fast to the other of said parts and arranged parallel with said first rod, a pair of shackles each arranged at adjacent



ends of said first and second rods and having a pair of cup-shaped bearings at its opposite ends fitting over the corresponding ends of the rods, means holding said shackles together, and means extending through said first named bearings resiliently restraining rotation of said crank arms.

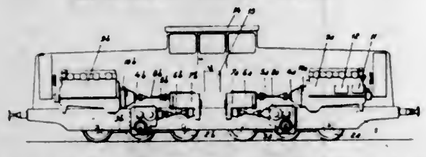
2,590,860
REMOVABLE PIPE PLUG
Robert Hoebeke, Medford, Mass.
Application December 1, 1947, Serial No. 789,009
5 Claims. (Cl. 138—90)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



4. A removable seal for the pressure testing of pipe comprising, a body portion having a substantially cylindrical plunger adapted to slide

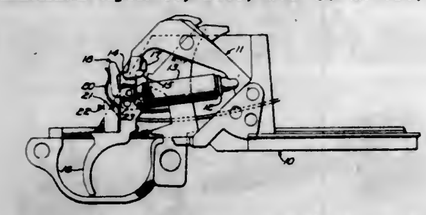
within a pipe to be tested and a tapered shank extending therefrom, a substantially cylindrical gripping member slidably and removably fitted to said tapered shank and arranged for expansion or contraction in response to sliding movement thereof relative to said tapered shank and a cup shaped washer having a flat portion thereof in contacting relation with said plunger on the side opposite said tapered shank and having a circular lip extending from said flat portion and directed away from said plunger.

2,590,861
MEANS FOR GEAR SHIFTING IN HIGH-POWER MANIFOLD UNITS
Michel Albert Jules Honnoré and Pierre Marie Felix Zens, Paris, France
Application January 19, 1949, Serial No. 71,652
In France January 28, 1948
21 Claims. (Cl. 192—.062)



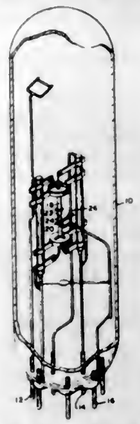
1. In a vehicle or the like mechanism, the combination of at least two power units, cooperating change speed gears, the reduction ratio between two speeds corresponding to two successive speed settings of the same speed box being smaller than the ratio between the allowable extreme speeds of the corresponding power unit when operating under maximum load, a clutch connecting each power unit with the corresponding change speed gear, separate actuating means for each change speed gear for simultaneously controlling the corresponding clutch and gear-shifting said change speed gear from one velocity stage to another, at least one transmission means connected with said change speed gears for transmitting power therefrom, and a free wheel inserted between each change speed gear and the corresponding transmission means for disconnecting the latter from said change speed gear when submitted to a velocity higher than that conventionally given by the actual velocity stage of said change speed gear.

2,590,862
ADJUSTABLE TRIGGER MECHANISM
Filser D. Hoppert, East Longmeadow, Mass.
Application July 27, 1948, Serial No. 40,972
2 Claims. (Cl. 42—69)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



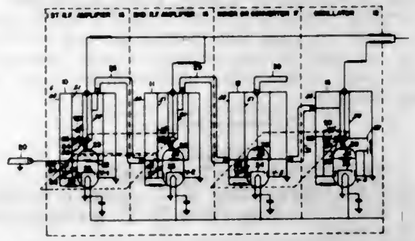
1. A trigger mechanism for a firearm having a pivoted hammer movable through a limited arc to a cocked position and a spring biased plunger for operating the hammer, said mechanism comprising a trigger, means on said trigger engageable with the cocked hammer in one position of said trigger, second means on said trigger engageable with the cocked hammer in another position of said trigger, a leaf spring mounted on said trigger directly biasing said first mentioned means against said trigger, and adjusting means engageable with said spring whereby the weight of the trigger pull may be varied.

2,590,863
COLD CATHODE GAS TUBE AMPLIFIER
Harold Jacobs and Jack R. Martin, Long Branch, N. J., assignors to the United States of America as represented by the Secretary of the Army
Application May 2, 1951, Serial No. 224,244
6 Claims. (Cl. 313—188)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



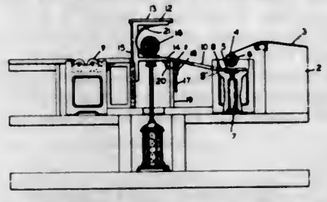
1. A gaseous discharge device comprising a sealed envelope containing an atmosphere of noble gas at a predetermined critical pressure and enclosing a pair of electron emitter electrodes each having a surface of low work function material, said electrodes being disposed with said surfaces in close juxtaposition to form a gap in which a discharge may be maintained, and a collector electrode disposed external to said emitter electrodes in the plane of the gap formed by said collector electrodes.

2,590,864
HIGH-FREQUENCY RADIO APPARATUS
Edwin A. Johnson, Washington, D. C.
Application September 14, 1945, Serial No. 616,429
3 Claims. (Cl. 179—171)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



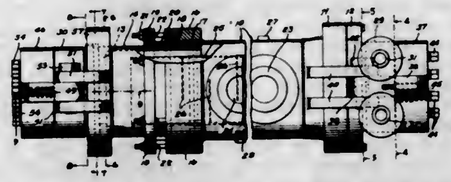
1. In a high frequency radio system wherein a plurality of stages are disposed in operative relation, said stages each including at least one resonant tank circuit, an integral unit comprising a plurality of wall members connected to form a plurality of adjacently positioned, substantially enclosed cavity resonator chambers having generally square cross sections, said adjacent chambers sharing a common wall member element, partition means within each of said chambers forming with said wall members a plurality of compartments therein which are positioned about respective common axes, the outermost compartments being dimensioned for use as a tank circuit element in the operating frequency range of said radio system, a plurality of electron discharge devices, each of said electron discharge devices positioned within one of said chambers concentrically of the said common axis thereof, the said wall members of each chamber together with the partitions and the electron discharge device therein being connected to form a complete stage of said radio system, and electric coupling means connecting between stages to form a more complete radio system.

2,590,865
REMNANT ROLL HOUSING AND LIFT
Warren C. Johnson, Lancaster Township, Lancaster County, Pa., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application June 28, 1950, Serial No. 170,790
7 Claims. (Cl. 242—58)



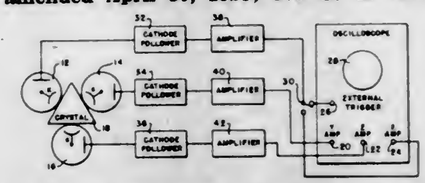
1. In a device for rolling and packaging sheet material such as floor and wall coverings, the elements comprising an inspection table, a roll-up device positioned at one end of the table, a wrapping station positioned beyond the roll-up device, an elevator positioned between the roll-up device and the wrapping station, said elevator comprising a storage compartment for storing a roll of sheet material, and means for raising and lowering said elevator to make said partial roll accessible.

2,590,866
HEAT EXCHANGE APPARATUS
John A. Jost, Westfield, and Edward Vogt, Elizabeth, N. J., assignors to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Continuation of abandoned application Serial No. 476,880, February 24, 1943. This application April 14, 1948, Serial No. 22,796
5 Claims. (Cl. 257—240)



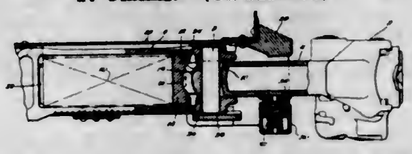
1. Heat exchange apparatus comprising a shell, tube sheets, tubes extending between the tube sheets, a channel member associated with a tube sheet and having a channel therein communicating with the ends of a plurality of tubes to provide a return connection for the tubes, a cover member adapted to be positioned on the outer side of the channel member, a removable ring for the outside of the shell, a split ring engaging the removable ring and the shell for removably attaching the removable ring to the shell, key means for the removable ring to retain it in proper position on the shell, means for removably connecting the cover member to the removable ring, and means for forcing the channel member toward the tube sheet with which it is associated.

2,590,867
NOISE REDUCER IN SCINTILLATION COUNTING
Hartmut P. Kallmann, Bellaire, N. Y., assignor to the United States of America, as represented by the Secretary of the Army
Application October 5, 1950, Serial No. 188,633
5 Claims. (Cl. 250—207)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



5. A noise reducer in scintillation counting comprising a crystal excitable by exterior radiation for generating corresponding flashes of light, a plurality of translating paths for said flashes of light, each path comprising a face of said crystal and photoelectric means associated therewith to provide a similar plurality of sources of electrical pulses, and means for combining the outputs of all of said photoelectric means to produce an output pulse signal for each light flash and effectively to inhibit an output signal generated by noise.

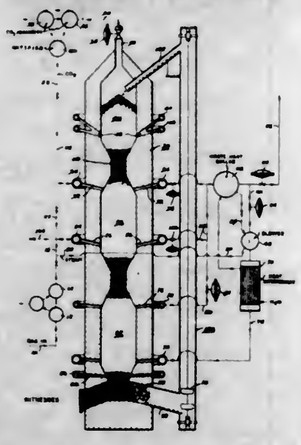
2,590,868
COUPLER BEARING BLOCK ASSEMBLY
Frank H. Kayler, Alliance, Ohio, assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application July 29, 1948, Serial No. 41,191
17 Claims. (Cl. 213—72)



1. A coupler and bearing block assembly comprising a coupler shank having a substantially spherical bearing surface at its rear extremity, an opening through said shank extending from top to bottom thereof, said opening having approximately parallel side walls and an arcuate rear wall, a block in said opening having an arcuate bearing face corresponding to and seated against said rear wall and adapted to accommodate angling of the shank relative to the block, an arcuate surface on said shank at the forward end of said opening, the margin of said arcuate surface at each side wall sloping downwardly and rearwardly from the top of the opening and upwardly and rearwardly from the bottom of the opening to define a lug, said arcuate surface at the forward end of said opening flaring toward

the top and bottom thereof, an arcuate surface on the block facing the first-mentioned arcuate surface and defining therewith a pin opening, an arcuate recess in each side of the block receiving the related lug and adapted to accommodate said angling of the shank, and a beveled portion on the first-mentioned arcuate surface extending from the top thereof downwardly along each sloping margin thereof to accommodate entrance and removal of the block at the top of said opening.

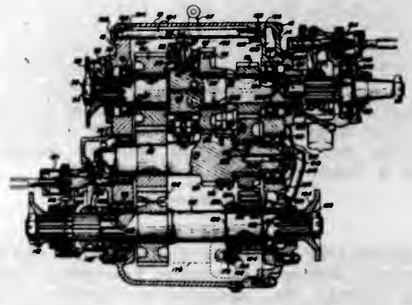
2,590,869
MANUFACTURE OF GAS
William O. Keeling, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application April 21, 1945, Serial No. 589,643
2 Claims. (Cl. 48—196)



1. In a process for manufacturing a gaseous mixture of carbon monoxide and hydrogen in which a stream of refractory granules passes in succession downwardly through a heating zone wherein the temperature of the granules is raised to conversion temperature by passing hot products of combustion of carbonaceous fuel through said granules, a conversion zone wherein the heat of the granules is utilized to supply endothermic heat for converting gas making constituents comprising hydrocarbon containing gas and steam into said gaseous mixture by contacting said gas making constituents with said granules, a cooling zone and back to the heating zone in a closed cycle, the steps which comprise removing said gaseous mixture from the conversion zone, cooling at least a portion of said gaseous mixture by indirect heat exchange, and cooling the granules passing through the cooling zone so that they discharge at a temperature below 500° F. by passing the gaseous mixture cooled by indirect heat exchange countercurrently therethrough.

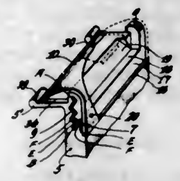
2,590,870
LUBRICATING MEANS FOR POWER TRANSMITTING MECHANISM
Beverly W. Keese, Oshkosh, Wis., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application September 30, 1948, Serial No. 51,905
13 Claims. (Cl. 184—6)

1. In combination with a power transfer unit comprising a housing having vertically spaced power input and output shafts and a countershaft journalled therein and variable speed power transmitting gearing connecting said shafts including spaced gear elements on the input shaft and a low speed gear mounted on an anti-friction bearing on said countershaft; means for circulating lubricant under pressure from a sump in the bottom of said housing comprising a member mounted in the housing above said gear elements on the input shaft for directly discharg-



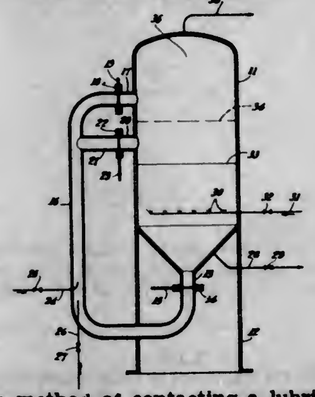
ing lubricant thereon, a pump mounted on the housing in communication with said sump, means drivingly connecting an element of the variable speed gearing with said pump, a first lubricant conducting passage connecting the outlet side of the pump with said member, and an additional lubricant conducting passage connected to said first passage and adapted to directly discharge lubricant upon said anti-friction bearing.

2,590,871
SHAVING IMPLEMENT
Jacob L. Kleinman, New York, N. Y.
Application January 7, 1946, Serial No. 639,540
11 Claims. (Cl. 30—40)



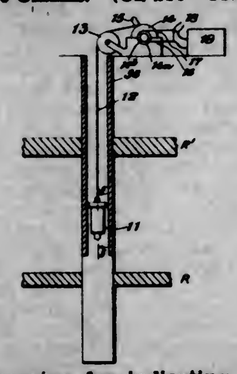
1. A shaving-implement comprising a head-structure and a handle, a chamber within said head-structure, said chamber having walls, one of said walls provided with a zig-zag slot, said head-structure provided with a seat for a razor blade, said seat provided with a recess, one of the said walls provided with an aperture, said aperture approximately on the same plane as said seat, an element within the said structure, a portion of the said element provided with a guard portion, said guard portion normally positioned within said recess portion, and in combination, a blade magazine having a zig-zag finger similar to the shape of said slot, said finger adapted to be inserted through said slot into the said chamber to move said element out of its normal position thereby removing said guard portion from said recess whereby a blade may be inserted through said aperture and positioned upon said seat, and upon removal of said finger from said chamber said element and said guard portion assume their original positions and block the insertion of a blade through said aperture

2,590,872
METHOD AND APPARATUS FOR CLAY TREATING OIL
Wheaton W. Kraft, Scarsdale, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application August 25, 1949, Serial No. 112,325
13 Claims. (Cl. 196—147)



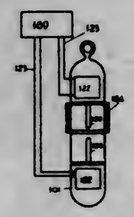
1. The method of contacting a lubricating oil with a decolorizing and stabilizing clay adsorbent to improve the quality of the oil which comprises passing the adsorbent and oil to a closed vessel, externally transferring mixed adsorbent and oil from a lower part of said vessel through an attenuated path to a point above the level of the mixture in said vessel, injecting an inert heated gas into said external transfer path to simultaneously induce circulation therethrough by reduction of the bulk density therein, simultaneously scrubbing said mixture in said attenuated path thereby releasing volatile matter carried by the adsorbent-oil mixture, removing released volatile matter from an upper part of said vessel, and removing clay and treated oil from a lower part of said vessel.

2,590,873
METHOD AND APPARATUS FOR MEASURING RADIOACTIVITY
Shelley Krasnow, New York, N. Y., and Leon F. Curtiss, Montgomery County, Md., assignors, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application October 24, 1939, Serial No. 301,078
36 Claims. (Cl. 250—83.6)



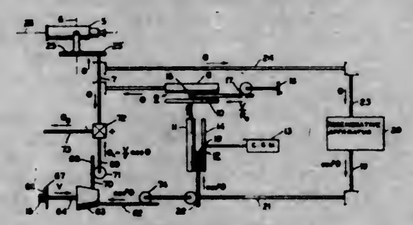
1. An apparatus for indicating a change in voltage comprising, an oscillatory circuit including a plurality of electrical impedances, means connected to the said oscillatory circuit for injecting thereinto a voltage that is out-of-phase with respect to the voltage developed across one of said impedances so as to change the apparent value of one of the impedances in the oscillatory circuit by a variable amount, and additional means responsive to voltage change and serving to control said injecting means to vary proportion of apparent change of the said last-named impedance in the oscillatory circuit, the change in impedance causing a change in frequency of oscillation.

2,590,874
MULTIPLE ELEMENT RADIOACTIVE RAY RECORDING
Shelley Krasnow, Arlington County, Va., and Leon F. Curtiss, Montgomery County, Md., assignors to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application July 24, 1942, Serial No. 452,228
5 Claims. (Cl. 250—83.6)



1. In a method of investigating radioactivity in a bore hole drilled into the earth, the steps of simultaneously lowering into the bore hole a plurality of radiation responsive devices having different radiation response characteristics, exposing said devices to radioactivity in the bore hole so as to cause at least one of said devices to respond significantly thereto, and obtaining indications of the responses of said devices whereby information about radioactive conditions in the bore hole may be obtained by comparing the indications of the responses of said devices.

2,590,875
REGENERATIVE TRACKING APPARATUS
Joseph H. Lancer, Jr., East Williston, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application April 30, 1943, Serial No. 485,261
12 Claims. (Cl. 33—49)



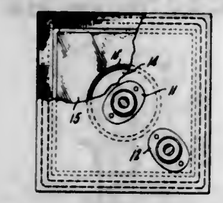
1. Fire control apparatus comprising a rotatable device for defining a line of sight to a target, a computing mechanism including means for continuously receiving a measure of the angular position of said device, means responsive to the time rate of variations in said received meas-

ure of angular position for computing a measure in tan θ in accordance with the formula

$$\frac{\frac{d^2\theta}{dt^2}}{\left(\frac{d\theta}{dt}\right)^2}=2\tan\theta$$

wherein θ represents the angular position of said device with respect to the cross-over range line, and means responsive to said computed measure of tan θ for obtaining a measure of $\cos^2\theta$, and means for driving said device at a rate proportional to said computed measure of $\cos^2\theta$.

2,590,876
ELECTRODE FOR ELECTROTHERAPEUTIC TREATMENTS
Fred Landauer, Rockville Centre, N. Y.
Application December 20, 1947, Serial No. 792,981
5 Claims. (Cl. 128—417)

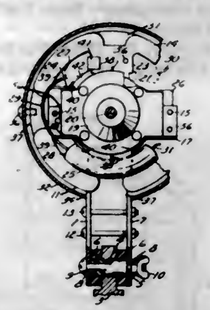


1. In an electro-therapeutic treatment plant for body parts; the combination of at least one flexible electrode having terminal means, a porous layer of electrically non-conductive material in contact with said electrode, with a support of insulating material holding in position said terminal means, said electrode and said porous layer so as to establish contact of the latter with a body part to be treated, conductor means carried by said support and connected to said terminal means, and conduit means held in position by said support and in communication with said porous layer whereby an electrically conductive liquid may be admitted to the latter to establish electric connections between said electrode, said layer and said body part.

4. A self-contained electrical pad structure for therapeutic use, comprising carrier means of electrical insulating material, a plurality of electrodes arranged in coaxial relation to each other on said carrier means, a plurality of separate terminals, each terminal for a respective electrode connected to said carrier means, a porous layer of electrically non-conductive material in contact with said electrode, a layer of absorbent material adjacent said layer of electrically non-conductive material, insulating strip means shaped for placement intermediate said electrodes to maintain the latter spaced from each other and extending into said layer of absorbent material, a porous cover affixed to said carrier means and extending over and beyond said layer of absorbent material, and means fixing said cover to said carrier means to thereby constitute a self-contained pad structure enclosing a plurality of electrodes having different polarities.

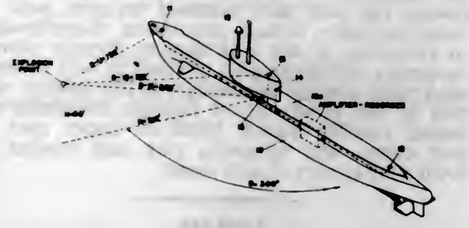
2,590,877
ELECTRIC FAN
Carl A. Lindberg, Toledo, Ohio
Application August 4, 1947, Serial No. 765,939
3 Claims. (Cl. 230—259)

1. An electric fan comprising a motor having a stator and a rotor, bracket means from the stator providing bearings mounting the rotor, a clamp strap embracing the stator and having integral therewith parallel radiating arms, a base having an eye extending between the arms, a



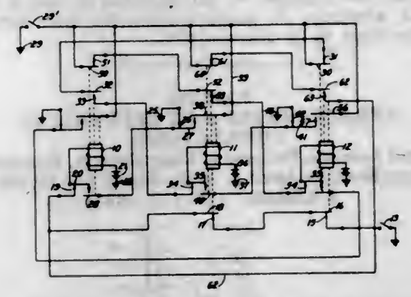
clamping bolt thru the arms and eye, and sound deadening spacing means between the arms and eye isolating the bolt from direct contact with the eye.

2,590,878
SONO-OPTICAL RECORDER FOR ANTISUBMARINE ATTACK TRAINING
Waldo K. Lyon and Robert M. Sherwood, San Diego, Calif.
Application March 14, 1947, Serial No. 734,842
1 Claim. (Cl. 35—10.4)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



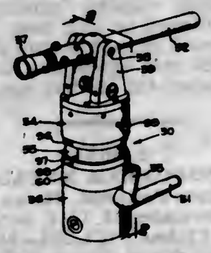
In an anti-submarine training device employing an underwater sound and light producing explosive adapted to be ejected by a surface craft, a pair of first sound responsive devices attached to the deck of a submarine on the longitudinal axis thereof at the front and rear thereof to establish a longitudinal base line, a pair of second sound responsive devices attached to the deck of said submarine on the lateral axis at respective sides thereof to establish a lateral base line, a third sound responsive device secured to said submarine in a position vertically displaced from the deck thereof, light responsive means secured to said submarine, individualized amplifier means connected to each of said sound responsive means and said light responsive means, a recorder comprising a disc driven at a predetermined speed, and individualized stylii contacting said disc each responsive to a respective one of said individualized amplifier means to produce an indication on said disc in response to explosion of the sound and light producing explosive in the vicinity of said submarine whereby causing a first indication on said disc responsive to light and a plurality of second indications responsive to sound angularly displaced from said first indication in proportion to the distance of said explosion from respective ones of sound responsive devices thereby to permit location of said explosion in space relative to said submarine.

2,590,879
RELAY RING CIRCUIT
Roderick K. McAlpine, United States Army, Arlington, Va.
Application April 4, 1945, Serial No. 586,613
4 Claims. (Cl. 175—320)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A ring circuit including a plurality of relays each having an operated condition and an unoperated condition, means for supplying energy to operate said relays, a closed circuit between an energy supplying means and one of said relays causing said one relay to assume its operated condition, means depending upon the operation of said one relay for first making a locking circuit therefor and second for breaking said closed circuit, another circuit between an energy supply means and another relay closed by the operation of said first mentioned relay to operate said other relay first to complete an additional locking circuit depending upon energy from said energy supply means for said first mentioned relay and to make a locking circuit for said other relay and then to open said other closed circuit.

2,590,880
ORIENTATION DEVICE FOR WELLS
Leonidas C. Miller, Los Angeles, Calif.
Application December 30, 1949, Serial No. 135,884
19 Claims. (Cl. 33—72)



1. In a device for determining the orientation of a tool supported by a pipe extending into a well bore, the combination of a clamp member releasably secured to the pipe, an orienter having a reference member, cooperating parts on the reference member and clamp member providing a releasable connection therebetween, the orienter including a register member and a sighting member, the latter two members being mounted for independent rotation relative to the reference member about a common rotary axis parallel to the pipe axis, and cooperating elements for releasably clutching the register member to either the sighting member or reference member as desired.

2,590,881
CLOTHESPIN
Clarence A. Morgan, Albany, Calif.
Application July 5, 1949, Serial No. 103,011
1 Claim. (Cl. 24—137)



A clothespin comprising a pair of elongated relatively rigid members provided with opposed centrally disposed recesses and opposed jaw portions and diverging handle portions at opposite sides of the recesses, a coil spring seated in said recesses and secured to said members to provide a pivotal connection for said members and urge said jaw portions together and said handle portions apart, said spring resisting but permitting spread of said members from each other along their entire length, one of said handle portions being formed with an elongated slot extending longitudinally of the member, a tongue formed integral with the other of said handles and extending into said slot in operative engagement with the sides thereof, said slot being enlarged laterally cross-wise of the member at the outer side of the member so as to define a ledge within the slot, and said tongue having a corresponding laterally enlarged head portion adjacent the free end thereof normally positioned in the enlarged portion of the slot, and having a shoulder arranged to seat upon said ledge so as to limit the spread of the members thereat, said head being of greater width laterally than the unenlarged portion of the slot, at least one side of said slot being defined by a laterally-flexible portion of the member, the flexibility of said portion being such as to permit the head portion of the tongue to be forced through the unenlarged portion of the slot.

2,590,882
TAMPING OR STEMMING PLUG
Stanley A. Morton, Wilkes-Barre, Pa.
Application March 17, 1948, Serial No. 15,301
1 Claim. (Cl. 102—30)



A tamping plug comprising a tubular casing formed of fireproof flexible material, a filling consisting of a mixture of rock wool, pulverized ashes, sawdust and cork, and a binder consisting of oil maintaining the filling in a moist and packable condition.

2,590,883
METAL TAG
Henry Nierhaus, Scarsdale, N. Y., assignor to Stoffel Seals Corporation, Tuckahoe, N. Y.
Application February 23, 1949, Serial No. 77,969
9 Claims. (Cl. 40—3)

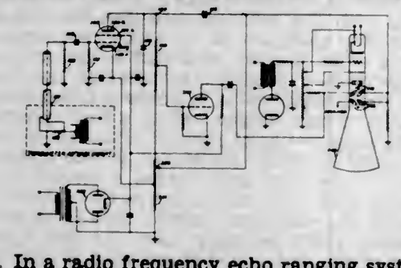
1. A metal tag adapted to be attached to a thin foldable material, comprising a body portion having a face for carrying print or markings, a flap foldable upon the back surface of said body portion, a tongue extending from said flap to form an obtuse angle therewith so that the distance between the tip of said tongue and

the base of said flap is shortened, interlocking means on said body portion located to engage with the tip of said tongue upon folding of said flap against said body portion to pinch part of



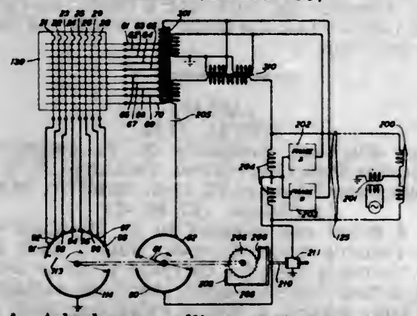
said thin foldable material between said tongue and said locking means, and an extension on said flap to decrease the force required to fold said tag.

2,590,884
PULSE ECHO RANGING CATHODE-RAY TUBE SWEEP SYSTEM
Robert M. Page, Washington, D. C.
Application February 29, 1944, Serial No. 524,432
3 Claims. (Cl. 343—13)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



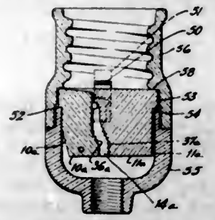
1. In a radio frequency echo ranging system, a transmitter for producing radio frequency pulses, said transmitter including an impedance in the cathode circuit of a final transmitting tube therefor for developing potentials in synchronism with said radio frequency pulses, a cathode ray tube including deflecting means, a saw-tooth wave generator controlled by said developed potentials for producing saw-tooth waves in synchronism with said radio frequency pulses, and means applying said saw-tooth waves to said deflecting means.

2,590,885
SPACED-PULSE IMPULSE SENDER
David B. Parkinson, Cleveland Heights, Ohio, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 8, 1949, Serial No. 131,875
4 Claims. (Cl. 179—90)



1. A telephone calling system comprising apparatus for generating two pulses for each digit representing a called station designation comprising a start coil having a core of saturable material, a source of alternating current, a winding interlinking said core and connected to said source of alternating current, a second coil also having a core of saturable magnetic material, and a plurality of input windings, means for supplying alternating currents of different phase to said input windings, and apparatus for controlling the number of active turns in one of said input windings in accordance with the identity of the digit to be transmitted.

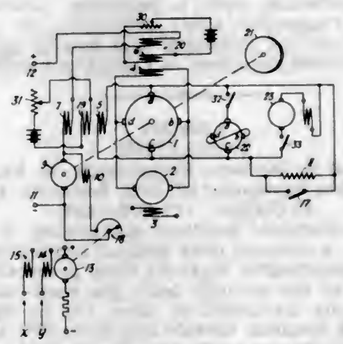
2,590,886
STRAIN RELIEF FOR ELECTRICAL CONNECTORS
Svend Laessøe Pedersen, Copenhagen, Denmark
Application April 8, 1948, Serial No. 19,782
8 Claims. (Cl. 173—322)



1. In an electric socket, the combination with an insulating casing including bulb retention means and electric terminals for interconnection to the bulb contacts, of a connecting mechanism, comprising, an insulating base removably mounted in said casing and having an aperture and a surface, an insulating cover for said aperture hinged to said base and being movable about the hinge axis between closure and release positions, respectively, a cam on said cover having a continuous curvature convexly eccentrically of the hinge axis and disposed opposite said surface when said cover is in closure position to squeeze for clamping therebetween an electric cord, and respectively to release the same when said cover is in release position, said cam being in said closure position near dead center, whereby outward pulling on said cord will urge said cover further towards closure, extensions on said terminals positioned on said base, and means on said cam disposed, in said closure position of said cover, adjacent said extensions and operable to press thereagainst for electric contact the wires of said cord.

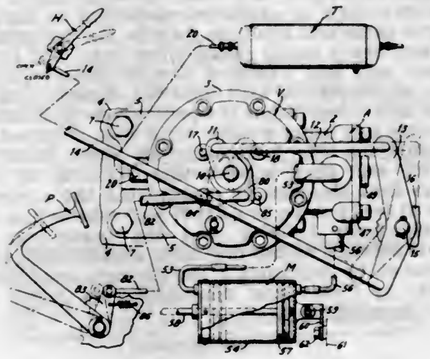
2,590,887
TRANSFORMER METADYNE
Joseph Maximus Pestarini, Staten Island, N. Y.
Application November 29, 1946, Serial No. 712,989
8 Claims. (Cl. 322—90)

1. An electric power system including a transformer metadyne comprising an armature with a plurality of brushes associated therewith and a plurality of stator windings, a first rotating electrical machine connected to a selected pair of said brushes, a second rotating electrical machine connected to a selected pair of said brushes, means for controlling the operational speed of said metadyne comprising a regulator dynamo in circuit with one of said stator windings, a variable resistance in circuit with the field winding of said regulator dynamo and dynamo means for varying said resistance, said brushes being displaced relative to each other whereby the currents of said first electrical machine traversing the armature of said metadyne create a flux forming with the flux created by the currents of said second electrical machine traversing the armature of said metadyne, an angle of sub-



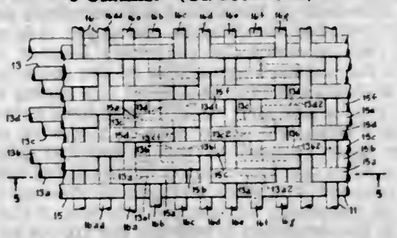
stantially 90 electrical degrees, thereby allowing the transfer of power between said first and second electrical machines.

2,590,888
CONTROL VALVE MEANS FOR FLUID-ACTUATED SERVOMOTORS
Glenn T. Randol, Fort Lauderdale, Fla.
Application October 2, 1947, Serial No. 777,448
19 Claims. (Cl. 121—38)



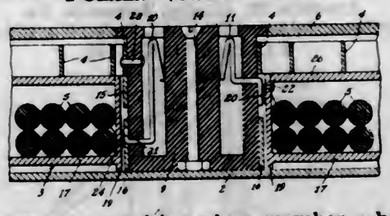
1. In combination with a fluid pressure actuated servomotor and a source of pressure fluid at a pressure different from atmosphere, means comprising a primary valve element movable to a plurality of operative positions for alternately connecting opposite ends of said servomotor to said source, a shut-off valve element operatively interposed between said primary valve element and said source, means for actuating said primary valve element to its said plurality of positions, and means operable independently of said first-named means for actuating said shut-off valve element and for simultaneously actuating said primary valve element to a predetermined one of its said plurality of positions in the event that said primary valve element has not been so actuated by said first-named means.

2,590,889
LADDER TAPE
Lawrence J. Rasero, Middletown, Conn., assignor to The Russell Manufacturing Company, Middletown, Conn., a corporation of Connecticut
Application January 23, 1950, Serial No. 140,005
9 Claims. (Cl. 139—384)



1. A ladder tape including: two main tapes, and ladders interconnecting said main tapes at areas-of-junction with said main tapes; each said main tape in each said area-of-junction having main-tape warp strands interwoven with weft picks by a weave in which the warp strands extend as singles on the outer face of the main tape over two weft picks, and then under at least one but not more than two weft picks, and then extend in like repeats along the length of the area-of-junction, and with the corresponding woven parts of each of three successive adjacent main-tape warp strands in one direction widthwise of the area-of-junction, being successively advanced one pick, and then being repeated in said one direction widthwise of the area-of-junction to cause portions of the floats of all of the main-tape warp strands at the outer face of each main tape and between two successive weft-picks, to be pressed together in side-by-side contact with one another throughout the width of the area-of-junction and at a plurality of locations longitudinally of the area-of-junction; and each ladder having ladder warp strands, each of a plurality of said ladder warp strands being looped over one of said two successive weft-picks beneath the space occupied by two adjacent main-tape warp strands which extend over one of said two successive weft-picks, at a number of pick locations longitudinally of the area-of-junction.

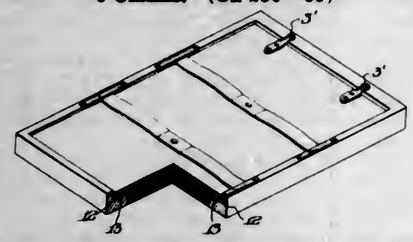
2,590,890
WIRE REEL
Saverio Frank Redo, Springfield Gardens, N. Y.
Application September 3, 1947, Serial No. 771,951
1 Claim. (Cl. 191—12.4)



A wire reel comprising a base member, a hollow cylindrical supporting member projecting upwardly from the base member, a pair of metal slip rings positioned on the outer surface of the hollow cylindrical member, the slip rings electrically insulated from each other, female electrical connection means adapted to receive an appliance connection and positioned within the hollow cylindrical member and electrically connected with the slip rings, a wire reel for an electric cord, the wire reel having a hollow hub adapted to receive the hollow cylindrical member,

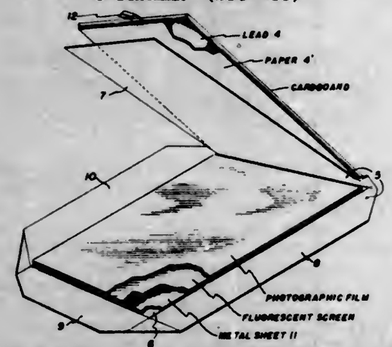
the wire reel including a pair of radially extending flanges to receive wire therebetween, electrical contact means carried by the wire reel and extending inwardly to make sliding contact with the slip rings, a spring positioned at the upper side of the wire reel, the spring having one end attached to the wire reel and having its other end attached to the cylindrical member, an annular member attached to the upper side of the wire reel adjacent the periphery thereof to restrict the outward expansion of the spiral spring and providing means attaching the spring to the wire reel, a plurality of stop members extending radially from the upper side of the wire reel, a cover plate secured to the cylindrical member, and a latch member carried by the cover member and adapted to engage with one of the stop members to releasably oppose the rotation of the wire reel in the direction to unwind the spring to wind an electrical cord on the wire reel.

2,590,891
CASSETTE
Frederic W. Reuter, Towanda, Pa.
Application August 3, 1950, Serial No. 177,385
6 Claims. (Cl. 250—68)



1. An X-ray film cassette comprising in combination a light-proof, flat, rectangular box body member which is permeable to X-rays, a light-proof, interfitting, cover member having a stratum impermeable to X-rays, said body member being adapted to receive an X-ray intensifying screen and a light-sensitive film element, a rectangular sheet of magnet-responsive metal in the cassette which is of such thickness that it is permeable to X-rays having an area slightly less than that of the box body so that it may freely move toward and away from the cover and means for fastening the cover to the body.

2,590,892
X-RAY FILM EXPOSURE HOLDER
Frederic W. Reuter, Towanda, Pa.
Application August 3, 1950, Serial No. 177,387
3 Claims. (250—68)



1. An X-ray exposure holder comprising a folder hinged at one end and having a back cover which is provided with a sheet of material which is impervious to X-rays and a front member which has a foldable envelope secured to its inner surface, said envelope including a large upper flap and three small side flaps which are adapted to fold inwardly to form a light-proof envelope in combination with a separate, unattached, magnet-responsive sheet permeable to X-rays disposed in the envelope; and means for locking the cover members in operative position.

2,590,893
INSULATOR
Paul H. Sanborn, Parkersburg, W. Va.
Application September 20, 1949, Serial No. 116,671
13 Claims. (Cl. 252—490)

1. An electrical insulator comprising, in combination, a ceramic body and an applied coating of semi-conducting material upon predetermined portions of the ceramic body, the semi-conducting coating composed of from 1% to 40% by weight of titanium dioxide and from 60% to 99% by weight of iron oxide and the applied coating being fired at temperatures above pyrometric cone 8 and not over cone 13.

2,590,894
ELECTRICAL CONDUCTOR
Paul H. Sanborn, Parkersburg, W. Va.
Application September 20, 1949, Serial No. 116,672
12 Claims. (Cl. 252—490)

1. An electrically conducting ceramic body having a negative temperature coefficient of resistance, said body being a fired substantially homogeneous vitrified composition consisting of from 0.05 to 63% titanium dioxide, 23.88 to 99.95% ferric oxide and 0 to 75% other ceramic oxides by weight, said other ceramic oxides being in a state of oxidation equivalent to that of ferric oxide and titanium dioxide, the percentage of any heavy metal oxides other than said ferric oxide and said titanium dioxide not exceeding the percentage of said titanium dioxide, and in any said composition the percentage of titanium dioxide not being greater than that obtained by multiplying the percentage of ferric oxide by 4.7165 and then substracting 111.51%, or less than that obtained by multiplying the percentage of ferric oxide by 0.01407 and subtracting the result from 1.4560% and the percentage of other ceramic oxides not being greater than that obtained by multiplying the percentage of ferric oxide by 0.9859 and subtracting the latter result from 98.544%.

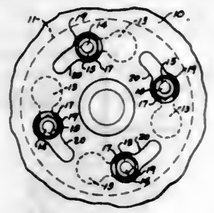
2,590,895
MYELOGRAPHIC NEEDLE
Louis A. Scarpellino, Kansas City, Mo.
Application November 21, 1949, Serial No. 128,590
3 Claims. (Cl. 128—221)



1. A spinal puncture needle comprising a hollow shaft having an open end terminating in a beveled point whose lower edge lies in a plane inclined at an acute angle to the longitudinal axis of the shaft, said shaft having an opening through its wall into the interior of the shaft in the region of the beveled point, and means for causing a flow of fluid through said beveled point, opening

and interior of the shaft, the upper portion of the opening and of the beveled point lying in the same transverse plane through the shaft.

2,590,896
LOCKING DEVICE
Jean W. Seele, Topeka, Kans.
Application September 19, 1950, Serial No. 185,668
14 Claims. (Cl. 301—9)



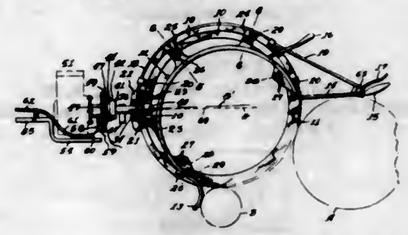
12. Means for locking the outer portion of a wheel to the hub portion thereof, said outer portion being provided with an annular series of keyhole slots, comprising an annular series of spring fingers on said hub portion each having enlargements on opposite ends thereof, one of which is provided with an elongated opening, and a reduced portion connecting said enlargements, and clamping means on said hub portion comprising studs each adapted to project through the narrow portion of a keyhole slot and through an elongated opening, nuts on said studs to hold the fingers in interlocking engagement with said slots and in engagement with one face of the outer portion of the wheel.

2,590,897
SHOULDER MORTAR
Clarence E. Simpson, Springfield, Mass.
Application January 10, 1947, Serial No. 721,328
6 Claims. (Cl. 42—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



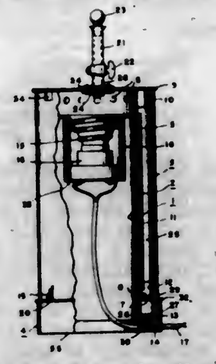
1. A firearm for discharging cartridges comprising a housing, a buffer member mounted on the rear of said housing, a barrel with a breech cap secured thereto slidably mounted within the housing, means for releasably holding said barrel in a retracted position, a firing pin mounted in said breech cap of said barrel, a hammer pivotally secured to said barrel, resilient means contained in said buffer member for urging said barrel forwardly upon release of said barrel holding means, and means engageable by said hammer as said barrel moves forwardly to rotate said hammer into engagement with said firing pin thereby effecting discharge of a cartridge while said barrel is in motion whereby a substantial amount of the recoil energy imparted to said barrel is absorbed in overcoming the inertia of said barrel.

2,590,898
DRIVE MECHANISM FOR CIRCULAR SAWS
Albert P. Smith, Ava, Mo., assignor, by mesne assignments, to Barker Saw Company, Springfield, Mo., a corporation of Missouri
Original application July 9, 1945, Serial No. 603,771. Divided and this application November 2, 1948, Serial No. 57,844
6 Claims. (Cl. 74—206)



1. Power transmitting mechanism of the character described, comprising two shafts in spaced, parallel relation, rigid means rotatably supporting one shaft, a gear housing having two parts, a pivotal coupling between said housing parts whereby one part has turning movement on an axis perpendicular to the shafts, one of said shafts having an end extending through a wall of and into one housing part, the other shaft having an end extending through a wall of and into the other housing part, meshed gears carried by the shafts in the housing, coacting friction rollers carried upon the other ends of the shafts, the said other shaft having swinging movement with the said other housing part about said axis for moving the rollers relative to one another, means for coupling a source of driving power with the said one shaft, yielding means urging movement of the said other shaft away from the first shaft to separate the rollers, and means for moving the said other shaft against the action of said yielding means.

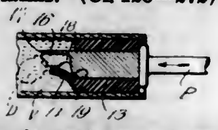
2,590,899
APPARATUS FOR THE DRY DEVELOPMENT OF DIAZOTYPE PHOTOGRAPHIC PAPER
Walter O. Snelling, Allentown, Pa.
Application December 29, 1945, Serial No. 637,803
8 Claims. (Cl. 95—89)



6. A portable apparatus for the dry development of photographic paper comprising in combination a pair of nesting coaxial tubes to form between them an annular space, means for closing said space at top and bottom to form an annular developing chamber, heating means within the nested tubes and in communication with said chamber for evolving developing vapors,

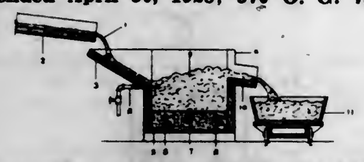
a base receptacle secured to the developing chamber for holding material to absorb excess vapors, and means normally closing communication between the developing chamber and the receptacle but movable to establish such communication, so that after development of the paper is completed excess vapors from the heating means may pass from the developing chamber into the base receptacle and there be absorbed.

2,590,900
AMPOULE
Cwi Sommerstein, New York, N. Y.
Application March 23, 1949, Serial No. 82,952
4 Claims. (Cl. 128—272)



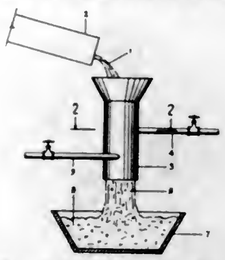
1. In an ampule replacement unit, said unit comprising a combined closure piston and container, said container having a severable diaphragm on one end thereof, in combination with a combined housing and diaphragm cutter located in said container, said housing being amply large enough to receive and contain at least a major portion of a drug charge therein, said cutter being in physical contact with a portion of said diaphragm, the peripheral wall of said container constituting a guide for said housing and cutter, and said combined housing and cutter being, at least, one and one-half times as long as the combined piston closure and container, said combined housing and cutter having on one of its ends a solid cylindrical portion constituting a guiding means therefor.

2,590,901
PRODUCTION OF LIGHTWEIGHT AGGREGATE FROM MOLTEN SLAG
Edgar L. Stout, Sheffield, William C. Scott, Jr., Florence, and John M. Stinson, Sheffield, Ala., assignors to Tennessee Valley Authority, a corporation of the United States
Application April 20, 1951, Serial No. 222,126
4 Claims. (Cl. 49—77.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



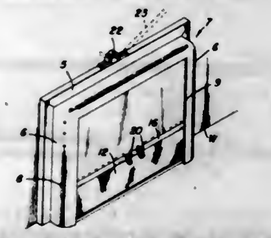
1. A process for expanding molten slag produced by smelting phosphate rock, which comprises introducing a stream of such slag at a temperature of not less than 1350° C. into an expansion zone having a layer of inert granular material previously saturated with water in the bottom thereof; controlling the rate of flow of said slag in the range from 90 to 245 pounds per minute per cubic foot of effective expansion space in said zone; introducing at least one stream of water into said stream of slag at a point beneath the stream of slag and adjacent to its entrance into said expansion zone; controlling the quantity of water so introduced in the range from 7 to 20 per cent of the weight of slag introduced; agitating the resulting mixture in said expansion zone; and overflowing the resulting molten expanding mixture into a cooling zone.

2,590,902
PRODUCTION OF LIGHTWEIGHT AGGREGATE FROM MOLTEN SLAG
Edgar L. Stout, Sheffield, William C. Scott, Jr., Florence, and John M. Stinson, Sheffield, Ala., assignors to Tennessee Valley Authority, a corporation of the United States
Application April 20, 1951, Serial No. 222,127
3 Claims. (Cl. 49—77.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



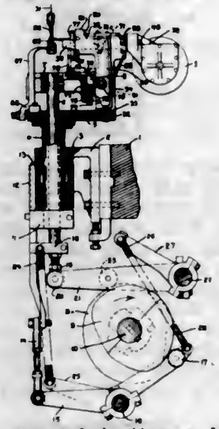
1. A process for expanding slag, which comprises continuously introducing molten slag into the top of a short, substantially vertical cylindrical zone having an open bottom; controlling the rate of flow of the slag so that the cylindrical zone is kept substantially filled and so that the slag passes downward through said zone in about one second; concomitantly introducing at least one stream of water into said zone substantially tangentially at a velocity sufficiently high to impart a swirling motion to the resulting emulsion-like mixture of water and molten slag in said zone; controlling the rate of flow of said water so that the walls of said zone are kept wetted by water; and continuously dropping said resulting mixture from the open bottom of said zone into a cooling zone.

2,590,903
COMBINATION SPARK SCREEN AND DRAUGHT CURTAIN FOR FIREPLACES
Lawrence A. Stretz, Boonville, Mo.
Application December 9, 1947, Serial No. 790,452
1 Claim. (Cl. 160—351)



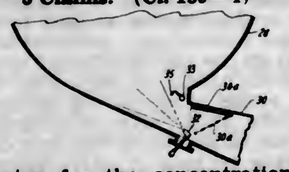
A portable closure and draft regulator for an open-front fireplace comprising an inverted U-shaped cowl-like hood embodying companion horizontal and vertical members, said members being right angular in cross-section, roller means mounted for rotation within the confines of the upper horizontal member of said hood, a fireproof draft regulating curtain mounted for operation on said roller, a pair of vertically disposed spaced parallel curtain guiding and retaining tracks mounted on the interior surfaces of the vertical members of said hood, said members being provided with a multiplicity of ventilating apertures, and a complemental inverted U-shaped bordering frame embodying horizontal and vertical channel-shaped members attached to and projecting laterally and outwardly beyond the corresponding horizontal and vertical members of said hood, the lower end portions of the vertical members of said frame and the vertical members of said hood combining to provide base means susceptible of rendering the over-all structure self-standing.

2,590,904
APPARATUS FOR INSERTING SUPPORT WIRES IN LAMP STEMS
Charles L. Titus, South Hamilton, and Edwin W. Barrett, Danvers, Mass., assignors to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application December 6, 1946, Serial No. 714,356
2 Claims. (Cl. 29—25.2)



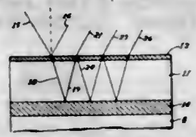
1. Apparatus for fabricating a button on a lamp stem and inserting filament support wires therein said apparatus comprising: a carrier; a button-forming member mounted on said carrier; means for effecting reciprocating movement of said carrier in a vertical plane; filament support wire supply units mounted on said carrier; wire feeding actuators mounted for reciprocation vertically and coaxially with said carrier; means for effecting reciprocating movement of said actuators in a vertical plane; and means, actuated by the reciprocating movement of said actuators in a vertical plane, for effecting reciprocating movement of said filament support wire supply units in a horizontal plane.

2,590,905
APPARATUS FOR CONCENTRATING RESIDUAL PULP LIQUOR BY DIRECT CONTACT WITH FLUE GASES
George H. Tomlinson, Montreal, Quebec, and Joseph N. Swartz, Cornwall, Ontario, Canada, assignors to Canada Paper Company, Montreal, Quebec, Canada, a corporation of Canada
Application October 15, 1947, Serial No. 780,090
5 Claims. (Cl. 159—4)



1. Apparatus for the concentration of pulp residual liquor containing chemical solids in solution and suspension comprising a cylindrically walled substantially unobstructed chamber having a concentrated liquor outlet in the bottom and a central gas outlet in the upper portion thereof, a gas duct tangentially positioned in the circumferential wall of said chamber for the introduction of hot gases thereto, a plurality of spray means mounted adjacent the outlet of said gas duct and arranged to discharge transversely across the entrance of said gas duct into said chamber for introducing the pulp residual liquor to be evaporated in a relatively coarsely divided condition into the hot gases entering said chamber and throughout substantially the entire cross-sectional area of said duct, and means for wetting the circumferential wall of said chamber comprising a series of spray nozzles circumferentially spaced in the upper portion of said chamber and positioned adjacent said circumferential wall and arranged to discharge streams of liquor against the inner surface of said circumferential wall.

2,590,906
REFLECTION INTERFERENCE FILTER
Kenneth F. Tripp, Tuckahoe, N. Y., assignor to Farrand Optical Co., Inc., a corporation of New York
Application November 22, 1946, Serial No. 711,561
7 Claims. (Cl. 88—110)

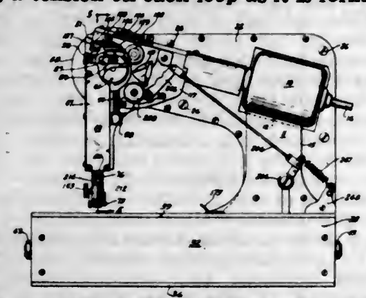


1. An optical reflection filter operating by light ray interference and absorption comprising a substantially opaque layer of a metal selected from the group consisting of silver and aluminum, said opaque layer being deposited on a glass support, a substantially transparent layer of a dielectric selected from the group consisting of magnesium fluoride and calcium fluoride, said transparent layer being deposited on said opaque layer and having a thickness not exceeding $10\lambda/n$ in which λ represents a wave length at which the filter reflects a maximum of light and n represents the index of refraction of said transparent layer, and a semitransparent layer of a metal selected from the group consisting of silver and aluminum, said semitransparent layer being deposited on said transparent layer and having a transmission between substantially 25% and 65%.

2,590,907
SEWING MACHINE
Thomas Van Tuyl and Frederick Ackermann, Chicago, Ill., assignors, by mesne assignments, to William R. Donaldson, Northport, N. Y.
Application May 23, 1947, Serial No. 749,902
31 Claims. (Cl. 112—98)

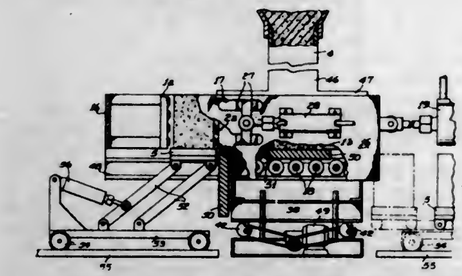
1. In a chain stitch sewing machine, and in combination, a hooked needle, means for reciprocating said needle through a fabric, thread handling mechanism cooperating therewith to form through said fabric a succession of loops and comprising means to present any of a plurality of different threads to said needle for engagement thereby at each reciprocation thereof, fabric feeding mechanism for feeding fabric past said needle at each reciprocation thereof, said fabric feeding mechanism and said reciprocable needle being so correlated in action that the needle remains substantially stationary above the fabric as the latter is fed to cause the moving

fabric to draw a loop across its surface at least equal to the amount of fabric fed, means for applying a tension on each loop as it is formed, and



means for separately adjusting the tensioning means for each thread to individually regulate the tension in each thread as a loop is drawn out across the fabric.

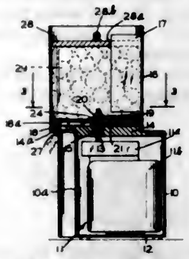
2,590,908
BLOCK MOLDING MACHINE
Robert D. Wells, Seattle, Wash., assignor to The Wells Company, Inc., Kirkland, Wash., a corporation of Washington
Application November 4, 1946, Serial No. 707,635
4 Claims. (Cl. 25—56)



1. A machine for molding concrete blocks or the like, comprising a mold frame, two die plates mounted therein, one at each end, facing one another, a separate die plate interposed within said mold frame, common to and intermediate said die plates, said separate die plate being double-ended, spaced from, and cooperating with each of said mold-frame-mounted die plates to define therewith two distinct and mutually variably-sized mold boxes, means to effect limited relative movement between said common die plate and the mold-frame-mounted die plates, to contract a charged mold box while expanding the other for discharge, and vice versa, fixedly positioned means for the supply of concrete mixture to the respective mold boxes, and means to shift the mold frame to place each mold box alternatively in communication with said supply means.

2,590,909
VEGETABLE CUTTER
Walter P. Westby and Maynard P. Hanson, Minneapolis, Minn.; said Westby assignor to said Hanson
Application October 8, 1948, Serial No. 53,508
1 Claim. (Cl. 146—125)

A slicing machine for vegetables and the like, said machine comprising a vertically extending hopper having a substantially cylindrical lower portion, a stationary flat platform at the bottom of said hopper having a discharge recess therein extending inwardly from the periphery thereof, an integrally cast rotary disc having a spirally curved narrow slot therein extending from a point near the periphery thereof inwardly to a point near the central part of the disc and having a spirally curved food distributing arm on the bottom thereof conforming generally to the shape of said slot and located directly adjoining a side wall of the slot, the inner side face of said distributor arm forming a downward continuation of the side face of the adjoining side wall of said slot, said disc being disposed in slightly spaced relation above said platform to provide a dis-



tributing space between the platform and the disc in which said distributor arm rotates, and a cutter fixed against the side wall of said slot opposite the first mentioned side wall thereof and extending upwardly above the upper face of the disc, the cutter having a spiral cutting edge conforming generally to the spiral form of said slot and said distributor arm, whereby material in said hopper may be sliced by said spiral cutter and discharged downwardly onto said platform to be subsequently urged centrifugally by said distributor arm into said discharge recess in the platform.

2,590,910
ROSIN ACID ESTERS
Harold Wittcoff and John Robert Roach, Minneapolis, Minn., assignors to General Mills., Inc., a corporation of Delaware
No Drawing. Application May 8, 1947, Serial No. 746,855
2 Claims. (Cl. 260—104)

1. A rosin acid ester of a polyhydric alcohol derived from the reaction of pentaerythritol and glycerol monochlorhydrin in an alkaline reaction mixture at an elevated temperature in which the glycerol monochlorhydrin is employed in from 1 to 10 moles per mole of pentaerythritol, the hydroxyl groups of said polyhydric alcohol being substantially all esterified with rosin acid.

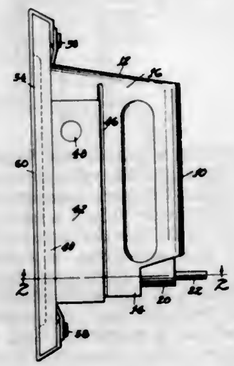
2,590,911
PARTIAL ESTERS
Harold Wittcoff, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application October 21, 1948, Serial No. 55,839
11 Claims. (Cl. 260—333)

1. An ester comprising a polyhydroxy condensation product having at least four hydroxyl groups, said polyhydroxy condensation product resulting from the condensation of formaldehyde and a ketone having at least four replaceable hydrogen atoms adjacent the carbonyl group, in which the molal ratio of formaldehyde to ketone is not substantially less than one mole of formaldehyde per mole of active hydrogen in the ketone, said polyhydroxy condensation product having at least one free hydroxyl group and at least one hydroxyl group esterified with a higher fatty acid.

2,590,912
COLD SWELLING STARCH PROCESS
Clifford J. Yarber, Holyoke, Mass., assignor to A. M. Meincke & Son, Inc., a corporation of Illinois
No Drawing. Application September 28, 1949, Serial No. 118,480
2 Claims. (Cl. 127—32)

1. The method of preparing a cold swelling starch which comprises mixing a starchy product with a small amount of water, introducing monosodium phosphate into the mixture and controlling said introduction whereby the mixture has a pH of from 5.2 to 6.5, and then converting under drying heat and pressure to a cold swelling starch.

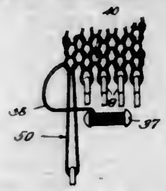
2,590,913
WINDOW CLEANING AND THE LIKE DEVICE
David H. Adams, Whitinsville, Mass.
Application May 26, 1948, Serial No. 29,295
2 Claims. (Cl. 15—103)



2. A cleaning machine comprising a housing open at one side, a reciprocating platform closing the open side, the housing having longitudinal guide grooves along opposite side walls, flanges on the platform, ribs on the flanges received in the grooves, the grooves and ribs being longitudinal of the housing and intermediate the height of the housing side walls, leaving parts of the latter free for manual gripping for manipulation of the machine, a cross shaft in the housing, a pair of arms supporting the shaft, said arms being mounted in a part of the housing, crank arms connected to the platform and eccentrically to the shaft, and means to drive the cross shaft, a resilient shoe on the platform, said shoe having a series of parallel grooves therein, detergent material in the grooves, and a porous covering for the grooves and detergent material therein.

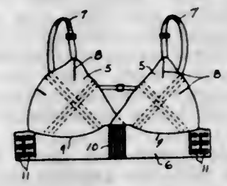
2,590,914
METHOD AND APPARATUS FOR MAKING KNITTED FABRICS
Harry D. Adams, Allston, Mass., assignor to Joseph D. Ramsey, Watertown, Mass., in trust
Application September 29, 1945, Serial No. 619,257
18 Claims. (Cl. 66—1)

1. The method of knitting which includes the steps of enlarging a previously formed stitch and thereafter passing the thread supply twice therethrough in the same direction and thus around the thread of such previously formed stitch in



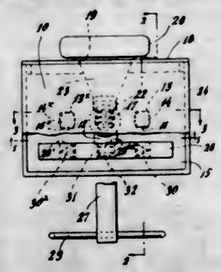
forming the corresponding stitch of a succeeding course.

2,590,915
ADJUSTABLE BRASSIÈRE
Mary Louisa Allison, Vancouver, British Columbia, Canada
Application September 30, 1949, Serial No. 118,959
1 Claim. (Cl. 2—42)



A brassière comprising a waist band composed of front and rear bands united at their ends by separable fasteners, the front band having its upper edge at each side of its center of concave contour, breast cups having their lower edges fitted in the concave portions of the front band and sewn thereto, said cups having their adjoining lower edges overlapping at the center of the front band of said waist band, and a corded portion in the center of the front band of said waist band.

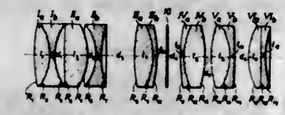
2,590,916
OPTICAL FOCUSING AND ILLUMINATING DEVICE FOR PHOTOGRAPHIC CAMERAS AND THE LIKE
Frank G. Back, Glen Cove, N. Y.
Application August 10, 1950, Serial No. 178,722
1 Claim. (Cl. 95—11)



An optical focusing and illuminating device, comprising in combination, a housing, means to fixedly retain a photographic camera within the back portion thereof, means adapted to receive a conventional light source in the bottom portion of said housing, said light source being positioned below the body of said camera, two prisms located at the sides of said light source and spaced equidistant therefrom, condenser components, spaced at a predetermined distance above said two prisms, two deflecting prisms, spaced above said condenser components said

two deflecting prisms located at the sides of, and substantially parallel with the objective of said camera; the top portion of said housing provided with means adapted to receive and retain a frame unit therein, said frame unit consisting of two spaced frames, the first of said frames adapted to enter into a fixed relation with said housing, a cross bar connected to said first frame and said second frame, adapted to maintain said second frame in a fixed position, parallel to said first frame, at a predetermined, fixed distance therefrom, an adapter lens and corresponding aperture centrally located within said first frame, said adapter lens being coaxially aligned with said camera objective, when said frame unit is positioned in said housing, small prism wedges located at the sides of said adapter lens being spaced equidistant therefrom said prism wedges positioned in alignment with said deflecting prisms when said frame unit is positioned in said housing, said deflecting prisms adapted to direct light rays emanating from said light source upon said prism wedges, said prism wedges adapted to deflect said light rays upon the object, said adapter lens adapted to collimate the object, said second frame adapted to position the object within the focal plane of said adapter lens, the distance between said first and said second frame unit being determined by the focal length of the adapter lens and the desired magnification, said frame unit being exchangeable in accordance with the varying requirements of different object distances.

2,590,917
WIDE ANGLE LENS CONSTRUCTION
Frank G. Back, New York, and Herbert Lowen, Forest Hills, N. Y.
Application March 5, 1951, Serial No. 213,982
1 Claim. (Cl. 88—57)



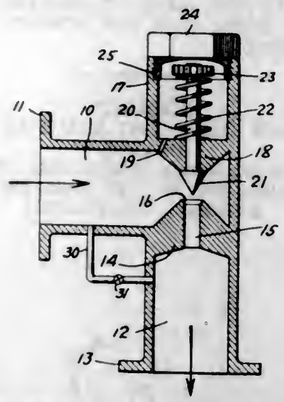
A wide angle lens made substantially according to the following specifications:

Lens	N_D	V	Radii	Thicknesses and Separations
I_A	1.5795	41.0	R_1 = + 57.25	t_1 = 9.55
I_B	1.611	58.8	R_2 = − 19.59	t_2 = 2.05
			R_3 = + 19.59	d_1 = 7.50
II_A	1.5795	41.0	R_4 = + 210.10	t_3 = 10.02
			R_5 = − 22.89	d_2 = 5.71
II_B	1.611	58.8	R_6 = − 18.17	t_4 = 3.06
			R_7 = + 35.73	d_3 = Variable
III_A	1.517	64.5	R_8 = + 57.98	t_5 = 8.37
III_B	1.689	30.9	R_9 = − 23.50	t_6 = 2.00
			R_{10} = − 46.00	d_4 = 9.65
IV_A	1.689	30.9	R_{11} = + 63.62	t_7 = 2.05
IV_B	1.517	64.5	R_{12} = + 27.21	t_8 = 9.47
			R_{13} = − 42.77	d_5 = 3.49
V_A	1.517	64.5	R_{14} = + 37.00	t_9 = 8.50
V_B	1.5795	41.0	R_{15} = − 22.40	t_{10} = 2.30
			R_{16} = − 1917.00	d_6 = 5.91
VI_A	1.6203	60.2	R_{17} = + 23.35	t_{11} = 5.67
VI_B	1.617	36.6	R_{18} = Inf.	t_{12} = 2.37
			R_{19} = + 34.00	

F = Equivalent Focal Length = 15.

where the lens elements are numbered in the first column in order from front to rear and the corresponding refractive indices and V values are given in the next two columns, where the radii R, thicknesses t and separations d, each numbered from front to rear, are given in the last two columns, where F is the focal length of the objectives and where the + and − values of R indicate surfaces respectively convex and concave to the front.

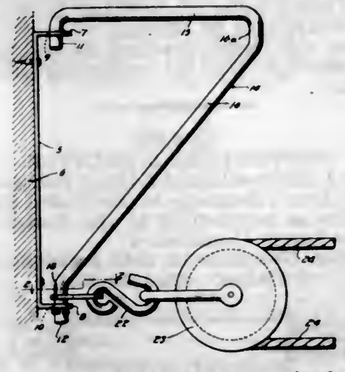
2,590,918
AUTOMATIC SHUTOFF VALVE
William E. Barnes, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application October 3, 1945, Serial No. 620,075
2 Claims. (Cl. 251—114)



1. A shut-off valve positioned between the inlet section and outlet section of a fluid conduit comprising a partition between said sections having a passageway therein providing a valve seat, a housing having one wall thereof positioned in spaced relation with said partition, a guideway in said housing wall, a valve stem movable within said guideway having one end within said housing and its other end terminating in a valve plug positioned between said partition and said housing wall and having a front face and a rear face, said wall of the housing having an area at least as great as the area of the rear face of the valve plug, said rear face of the valve plug when the plug is in retracted position being maintained flush with the housing wall in order to prevent impingement on the rear face of the valve plug of any substantial amount of fluid from the inlet section of the fluid conduit, said front face of the valve plug extending toward said valve seat and providing a restricted space therewith, means for normally maintaining the rear face of the valve plug in retracted position, a fluid passageway providing communication between the fluid inlet section and the housing in order to exert pressure on the valve stem end in said housing and force the valve plug to closed position when the flow of fluid through the restricted space exceeds a predetermined velocity with the consequent reduction in pressure, in said restricted zone, below that necessary to maintain the valve in the open position.

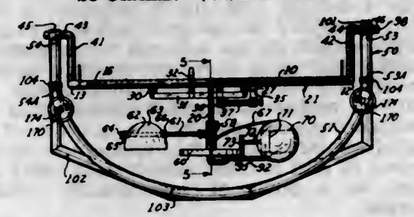
2,590,919
CLOTHESLINE ADJUSTER
Lawrence A. Becker, Marble Hill, N. Y.
Application March 17, 1948, Serial No. 15,341
7 Claims. (Cl. 211—119.17)

1. A clothes line adjuster comprising a bent rod having alined upper and lower end parts, a substantially horizontal part joining the upper end part, and a diagonal part extending substantially from the outer end of the horizontal part to said lower end part; mounting means pivotally receiving said end parts; said lower end part extending downwardly being of round cross section and having in its side just above its mounting means a deep transverse slot remote from the diagonal part; a shackle plate



having an elongated opening received on said rod and having a transverse substantially straight inner end edge engageable in said transverse slot; and means for attaching a pulley on the shackle plate remote from and facing said inner edge.

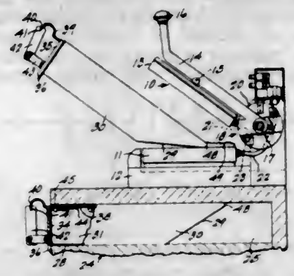
2,590,920
HEALTH BED
Raymond E. Beegle, East St. Louis, Ill.
Application April 23, 1947, Serial No. 743,403
23 Claims. (Cl. 128—33)



12. In a bed structure for therapeutic purposes, a bed comprised of a plurality of sections jointed to permit their assumption of varying relative angularity, a support for the sections of the bed, counterbalancing means serving the sections of the bed, a rotary power element and driving connections from the power element to the counterbalancing means, thence to at least one of said sections, the power unit and connections serving with the counterbalancing means to vary the relative angularity of the sections as the power unit is operated.

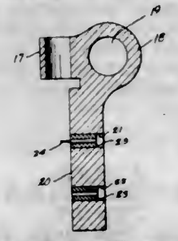
2,590,921
BATTER DISPENSER
Ken E. Bemis, Oakland, Calif.
Application December 5, 1949, Serial No. 131,115
5 Claims. (Cl. 107—52)

1. A batter dispenser comprising an elongated container having side, bottom and forward and rear end walls, and a cover slidable in opposed grooves provided in the upper portions of the side walls, with the forward end wall inclined upwardly and forwardly at an angle of not to exceed 45 degrees to the horizontal and terminating in a straight lip having a width substantially equal to the width of a rectangular waffle iron grid to spread batter throughout the width of the grid, and releasable engaging means mounted on said cover adjacent the rearward end thereof and projecting downwardly through said cover for engagement with the inside of the rear wall of said container for limiting retraction of the



cover to a degree sufficient only to permit passage of a relatively thin ribbon of batter as the lip of the dispenser is drawn back over the grid.

2,590,922
MICROMETER BRACKET
Howard W. Blewett, Ansonia, and Joseph A. Bernardini, New Haven, Conn.
Application May 21, 1948, Serial No. 28,394
3 Claims. (Cl. 33—167)

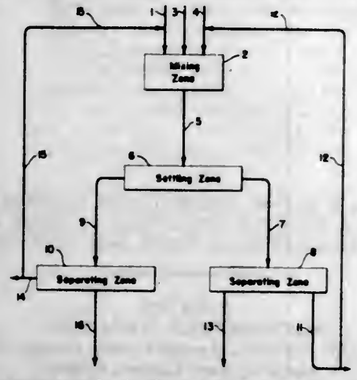


1. The combination with a micrometer head including a spindle, of a frame comprising a sleeve portion having an axial bore therethrough, an elongated shank portion having one end carried by said sleeve portion and extending in a parallel spaced relation with respect to the longitudinal axis of said sleeve portion, the spindle of said micrometer head being operatively received within the axial bore of said sleeve portion, said shank portion being provided with a plurality of openings extending transversely therethrough and disposed at varying distances from the free end of said spindle, and means mounted in said openings for cooperating with the free end of the spindle of said micrometer head for purposes of measurements, said means comprising a bushing having an axial opening therethrough and an anvil pin insertible within and fixedly supported in said axial opening.

2,590,923
PRODUCTION OF DRYING OILS
Herman S. Bloch, Chicago, and Richard C. Wackher, La Grange, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application August 17, 1948, Serial No. 44,665
16 Claims. (Cl. 260—666)

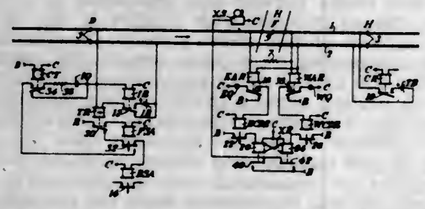
1. A process for producing a drying oil which comprises reacting an olefinic hydrocarbon having at least three carbon atoms per molecule with an unsaturated organic polar compound having the general formula R—Ar—Q wherein Ar represents an aromatic hydrocarbon radical, R represents an alkenyl group, and Q represents a member of the group consisting of a

hydrogen atom, an alkyl group, an alkenyl group, a carboxylic acid group, a sulfonic acid group, and a halogen atom at a temperature of from about 0° to about 175° C. and in the presence of a hydrofluoric acid catalyst containing a major proportion by weight of hydrogen fluoride until a reaction mixture comprising substantially saturated hydrocarbons and polyunsaturated or-



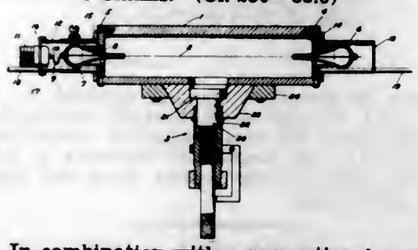
ganic compounds is formed, separating the reaction mixture into a hydrofluoric acid phase and a hydrocarbon phase, separating a substantially saturated hydrocarbon product from the hydrocarbon phase, and recovering from the hydrofluoric acid phase a drying oil having more carbon atoms per molecule than the olefinic hydrocarbon charged.

2,590,924
SUBDIVIDED CODED RAILWAY TRACK CIRCUIT
Herman G. Blosser, Pittsburgh, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application August 7, 1947, Serial No. 767,199
11 Claims. (Cl. 246—130)



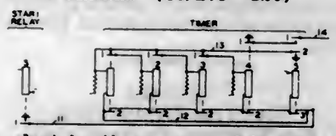
1. In a coded railway signaling system, in combination, a section of railway track through which traffic normally moves in a given direction, said track section including at an intermediate point in the section an intersection with a highway, a crossing signal at said intersection, a coding device at the exit end of said section having a contact continuously actuated to recurrently connect a first source of energy across the section rails, a code following track relay at the entrance end of said track section operated by energy supplied over the section rails from said first source, means associated with said track relay for at times connecting a second source of energy across the track rails when said track relay remains inoperative for a substantial time interval and for effectively preventing operation of said track relay during said times, an insulated joint in one of said track rails and located adjacent said intersection, a resistor connected in series with said one of the track rails of said section at said intersection and bridging said insulated joint, a first detector relay connected across the track rails on the side of the resistor nearest said track relay, a second detector relay connected across the track rails on the side of said resistor farthest from said track relay, said resistor and said detector relays being proportioned so that either of said relays may be shunted without affecting the other, and means governed by said first and second detector relays for controlling said crossing signal.

2,590,925
PROPORTIONAL COUNTER
Casimer J. Borkowski and Edward Fairstein, Oak Ridge, Tenn., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application November 29, 1948, Serial No. 62,541
6 Claims. (Cl. 250—83.6)



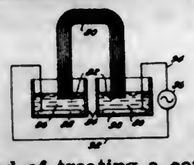
1. In combination with a proportional counter employing as a filling gas a mixture of a polyatomic gas with not more than 95% by volume of a noble gas, an amplifying system comprising at least one electric discharge device having an anode, a control grid, and a cathode, an input circuit connected to said grid and said cathode, and an output circuit adapted to substantially eliminate the pulse overshoot tending to occur therein, and including resistance means and rectifying means in parallel combination and capacitance means coupling one junction of said parallel combination to said anode, the opposite junction of said parallel combination being connected to a point of substantially constant potential.

2,590,926
MULTIRELAY ELECTRIC TIMER
Richard P. Boyer, Jr., La Grange, and John I. Bellamy, Wheaton, Ill., assignors to Kellogg Switchboard and Supply Company, Chicago, Ill., a corporation of Illinois
Application February 7, 1950, Serial No. 142,924
7 Claims. (Cl. 175—320)



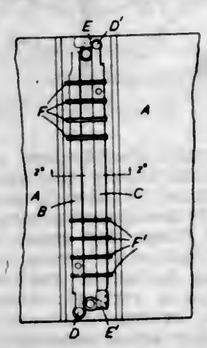
1. An electric timer comprising a series of electromagnetic relays, means for operating the first relay, contact means included in and operable with each relay preceding the last for closing an operating circuit for the next succeeding relay, contact means responsive to the operation of the last relay for closing a self-locking circuit for each relay, means responsive to the operation of the last relay for short-circuiting the first relay, any relay restoring responsive to being short-circuited, and control means included in and operable with the restoration of each said relay preceding the last for short-circuiting the next succeeding one of said relays.

2,590,927
ELECTROLYTIC METHOD OF REMOVING BURRS
Weldon H. Brandt, Wilkinsburg, Pa., Morgan W. Rider, Morgantown, W. Va., and Raymond C. Westphal, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 17, 1948, Serial No. 39,296
4 Claims. (Cl. 204—56)



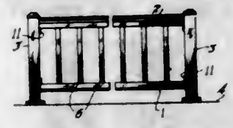
1. The method of treating a core part for an electrical induction apparatus that comprises an assembled plurality of laminations of magnetizable material having electrical insulating material interposed therebetween and having a pair of faces at which burrs are formed on edges of said magnetizable material exposed at said faces by the production of said faces, the method comprising introducing said pair of faces of said core part in separate bodies of electrically conductive liquid one of which is an aqueous electrolyte capable of deburring metal anodically treated therein, and passing an electric current from one body of liquid to the other through said faces of the core part to electrolytically remove the burrs from the core part face disposed in the body of said electrolyte.

2,590,928
LOOSE-LEAF BINDER
Charles John Broadhurst, Oxford, England
Application September 24, 1947, Serial No. 775,781
In Great Britain September 25, 1946
2 Claims. (Cl. 129—1)



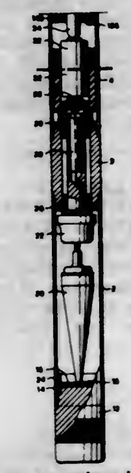
1. A loose leaf holder comprising in combination a pair of substantially parallel spine members, a plurality of jointless sheet-engaging members mounted on each of said spine members, said sheet-engaging members being in two sets, one set being disposed towards one end of one spine member and the other disposed towards the opposite end of the other spine member, anchoring means for anchoring the two spine members at ends remote from one another, and means for releasably securing them at the ends remote from their anchorage whereby each spine may be raised in turn about its releasable end with its set of sheet-engaging members to allow for partial release or insertion of sheets while the sheets are held by the other set of sheet-engaging members on the other spine member.

2,590,929
RAILING
William W. Bush, Essex Fells, N. J.
Application November 19, 1947, Serial No. 786,873
5 Claims. (Cl. 256—22)



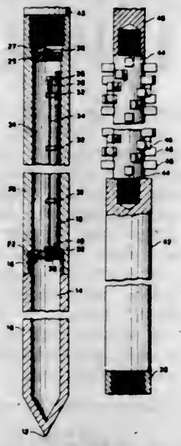
1. Railing comprising channel-shaped upper and lower rails whose channels face each other and open through the ends of the rails, a rib extending longitudinally from end to end of each rail and projecting into the channel from a side wall thereof, pales whose end portions are slidable laterally into said channels respectively through the open ends thereof and which have transverse slots through which said rib extends to interlock said pales with said rails, said rails having longitudinal grooves in the side walls of said channels, and spacer plates mounted in said grooves between said pales to hold the pales in predetermined spaced relation.

2,590,930
CIRCUIT CONTROL FOR WELL SURVEYING INSTRUMENTS
Gilbert James Butterworth, Chester, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application February 16, 1949, Serial No. 76,803
4 Claims. (Cl. 346—33)



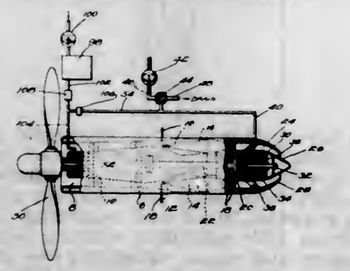
1. A bore hole measuring instrument comprising a casing adapted to enter a bore hole, means for supporting recording means within said casing, means comprising an electrical circuit for effecting operation of said recording means in accordance with conditions existing adjacent to said casing, and means controlling flow of current in said circuit, said means comprising devices responsive to impact of said casing to effect said control, said devices including a weight member urged upwardly by a spring member, latching means latching the weight member in a downward position resulting from said impact, an orifice controlled by the position of the weight member and opened when the weight member is in said downward position, and a conductive fluid flowing through said orifice to establish electrical contact permitting said flow of current.

2,590,931
CHEMICALLY HEATED PARAFFIN KNIFE
Bert A. Cabaniss, Falfurrias, Tex., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application February 11, 1949, Serial No. 75,783
1 Claim. (Cl. 166—17)



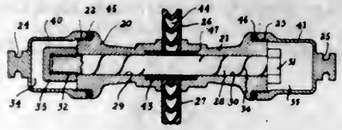
Apparatus for heating and removing a paraffin deposit from the inside wall of a pipe line comprising a member enclosing a first chamber containing a first chemical material, a second chamber containing a second chemical material, means responsive to impact effecting a communication between said chambers permitting the passage of the first chemical from the first mentioned chamber into the second mentioned chamber, the two chemical materials being such that heat is generated by their reaction, and cutting means, including radially extending knives in staggered arrangement, joined to said member by a spacer member.

2,590,932
AIRCRAFT TURBINE-PROPELLER CONTROL SYSTEM
Frank W. Caldwell, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 22, 1948, Serial No. 34,439
10 Claims. (Cl. 170—135.71)



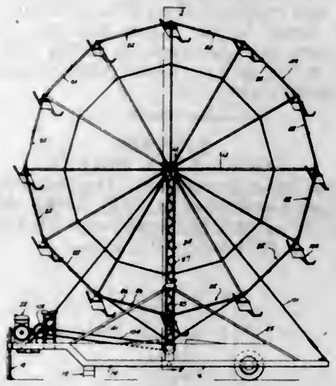
2. In a power plant, a compressor, a turbine connected to and driving said compressor, a combustion chamber in which gas from the compressor is heated before it reaches the turbine, and a propeller driven by said power plant, in combination with means for closing the gas passage through the power plant and other means for feathering the propeller, said feathering and closing means being interconnected to operate in unison.

2,590,933
DOWEL BAR AND JOINT SEALING STRIP CONSTRUCTION
John E. Carter, Columbus, Ohio
Application April 15, 1946, Serial No. 662,368
10 Claims. (Cl. 94—8)



1. A dowel assembly for use in constructing concrete slab roads including in combination a dowel bar having a groove formed on its exterior surface in from the opposite ends, a compressible sleeve fitted snugly over the mid-portion of said dowel bar, and a chambered housing, including an oil reservoir, provided with an open end fitted on each end of the dowel bar in sealing relation with the sleeve.

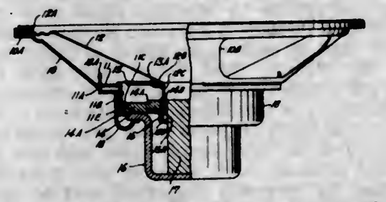
2,590,934
PORTABLE FERRIS WHEEL
William G. Catlett, Kansas City, Kans.
Application August 26, 1949, Serial No. 112,550
2 Claims. (Cl. 272—29)



1. In a portable Ferris wheel, a mobile frame, a pair of vertical towers mounted on said frame in laterally spaced relation to each other across the frame, said towers comprising lower sections fixed on said frame and upper sections hinged on the upper ends of the lower sections to swing from reclining horizontal positions to vertical erect positions in vertical alignment with the lower sections, locking means acting between the lower and upper tower sections for locking the upper sections in erect position on the lower sections, bearings on the upper ends of the upper sections, an axle extending between the upper ends of the upper sections and supportably engaged with the bearings, a hub journaled on said axle between the towers, and a wheel comprising a main spoke assembly comprising a spoke radiating from said hub and fixed to extend rigidly therefrom, a plurality of secondary spoke assemblies connected to said hub at equally circumferentially spaced points around the hub from said main spoke, each of said secondary spokes comprising an inner spoke section having its radially inward end pivoted on the hub on an axis extending parallel to the axis of the hub whereby the secondary spokes can be swung from a normal radial relation to the hub to folded positions in which adjacent spokes are alongside

of each other and extend along said main spoke assembly, each of said secondary spokes having an outer spoke section, means pivotally connecting the outer spoke section to the inner spoke section to swing on an axis parallel to the axis of the hub from a normal position in longitudinal alignment with the inner spoke section to a folded position in which the outer spoke sections are disposed alongside of each other in substantially right angular relationship to the inner spoke sections, first locking means for locking the inner and outer spoke sections in longitudinal alignment with each other, folding link members extending between the radially outward ends of the outer sections of adjacent spokes, said folding link members comprising links having inner ends pivoted together and outer ends pivoted to the radially outward ends of the outer spoke sections, second locking means for locking the links in longitudinal alignment with each other so as to hold adjacent spokes spread away from each other and in radial relation to said hub.

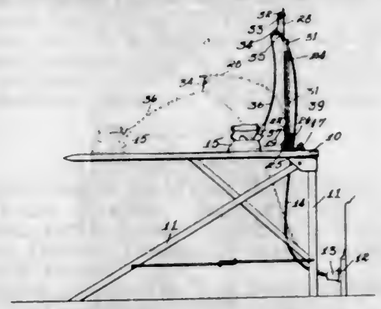
2,590,935
LOUD-SPEAKER MADE FROM SEPARATE UNITS HAVING LOCKING RING SECURING UNITS TOGETHER
Reginald Denison Charlesworth, Dee Why, New South Wales, Australia, assignor to Magnavox (Australia) Pty. Ltd., East Sydney, New South Wales, Australia, a corporation of Australia
Application August 28, 1948, Serial No. 59,321
In Australia July 1, 1948
12 Claims. (Cl. 179—115.5)



6. A loud speaker of the moving coil type formed of two independently constructed and cooperative units comprising in combination, a diaphragm assembly unit having an apertured floor, a magnetic unit having a top plate adapted to nest removably with the said floor of the diaphragm assembly unit in operative relation to the magnetic unit, and a detachable locking member engaging both units and adapted to hold said units in cooperation to form a complete loud speaker, said diaphragm housing being provided with an internal shelf in its side walls, said shelf engaging the outer edge of a supporting and positioning spider and a portion of said locking member, and said housing being formed with a rearward extension having an apertured floor for detachably nesting with a portion of said magnetic unit.

7. A loud speaker of the moving coil type formed of two independently constructed and cooperative units comprising in combination, a diaphragm assembly unit having an apertured floor, a magnetic unit having a top plate adapted to nest removably with the said floor of the diaphragm assembly unit in operative relation to the magnetic unit, and a detachable locking member engaging both units and adapted to hold said units in cooperation to form a complete loud speaker, said locking member comprising a locking ring having locking lugs thereon engaged with said diaphragm unit and having a radially inwardly extending portion engaging a portion of said magnetic unit.

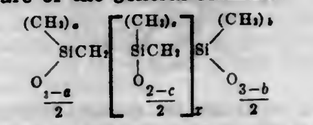
2,590,936
IRON CORD SUPPORT AND RETRIEVER
Frank D. Clark, Des Moines, Iowa
Application May 31, 1946, Serial No. 673,572
3 Claims. (Cl. 248—51)



2. A support and retriever for ironing cords, comprising, a base having vertical pivot guides and an upright support having a notch in its upper end, a bumper bar having a pivot at one end and mounted in said guides, the free end of said bar being adapted to swing from a horizontal inoperative position to an upright operative position adjacent to said upright, a headed stud mounted in said bar adapted to enter said notch after the bar has been raised to its upper upright position and then lowered, a flexible and resilient reed having one end fixed to the pivoted end of said bar and means for attaching the intermediate portion of said cord to the free end of said reed.

2,590,937
ORGANOSILICON RESINS
Harold A. Clark, Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application May 1, 1950, Serial No. 159,369
10 Claims. (Cl. 260—46.5)

1. An organosilicon copolymer resin in which the units are of the general formula:



and of the general formula

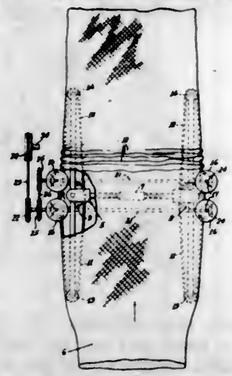
$$R_nSiO_{\frac{4-n}{2}}$$

where a, b, c, x and n each have values of from 0 to 2 inclusive, and R is a radical of the group consisting of alkyl and monocyclicaryl radicals, in which the ratio of oxygen atoms to Si atoms is 0.9 to 1.5 and the said units are connected together by silicon-oxygen-silicon bonding.

2,590,938
APPARATUS FOR HANDLING TUBULAR TEXTILE FABRICS
Samuel Cohn, Jules G. Walter, and Eugene Cohn, New York, N. Y., assignors to Samcoe Holding Corporation, Woodside, N. Y., a corporation of New York
Application November 3, 1950, Serial No. 193,932
3 Claims. (Cl. 26—55)

1. In an apparatus for advancing tubular textile fabric, a frame, pulleys centrally disposed in the frame each having a pair of belt receiving

grooves of different pitch, pulleys at opposite ends of the frames and belts connecting the centrally disposed pulleys to the pulleys at the ends of the frame, the belts at the centrally disposed pulleys being disposed in different grooves,



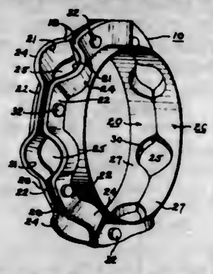
and pairs of supporting and driving rollers engaging the centrally disposed pulleys through fabric stretched on the frame whereby the forward and rearward portions of the fabric are advanced at differential speeds.

2,590,939

SEPARATOR FOR ANTIFRICTION BEARINGS

Leland D. Cobb, Forestville, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 3, 1949, Serial No. 113,989
15 Claims. (Cl. 308—201)



1. In a separator for spacing rolling elements between a pair of race members, a pair of mating annular body members having pockets for the rolling elements, a pair of mating guiding elements each having an arcuate portion, the body members and the arcuate portions extending one within the other, an outwardly projecting lug on each arcuate portion, the body members having flats between the pockets, and means for fastening the lugs and the flats together.

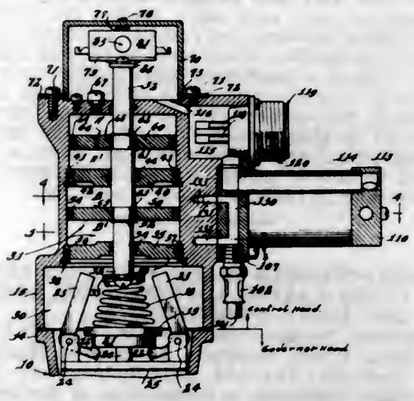
2,590,940

HYDRAULIC GOVERNOR HEAD WITH SPEEDER SPRING ADJUSTING MEANS

Edward J. Collins, Los Angeles, Calif., assignor to Raymond T. Moloney, Chicago, Ill.

Application September 29, 1945, Serial No. 619,382
10 Claims. (Cl. 264—3)

2. For use with an aircraft governor head of the type including a connection with a source of engine oil under pressure and a cut-out switch device in operative communication with said source, improvements comprising, to wit: a control head adapted to be mounted on said governor head, hydraulic means in said control head for actuating a controlled instrumentality in said governor head, said hydraulic means operated by said engine oil, valve means controlling flow of said engine oil relative to said hydraulic means, and means for deriving engine oil from the governor head for operation of the hydraulic means as aforesaid, said last-mentioned means including an adapter arranged and constructed to be interposed between said cut-out switch device and said engine oil source and leading off engine oil to said valve means.



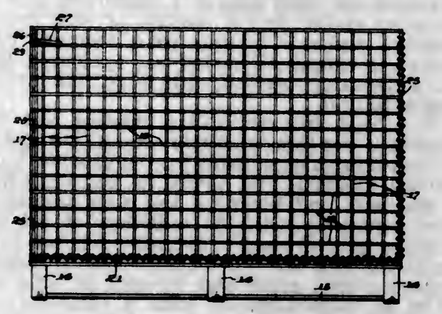
7. A fluid-operated servomotor comprising a closed cylinder, a pair of pistons spaced apart on a common drive rod therein, fluid supply inlet ducts connecting to opposite sides of a working one of said pistons, a separate poppet closing the supply duct to each said side, a cylinder exhaust duct for effluent fluid from each said side, a separate poppet closing each said exhaust duct, mechanism for simultaneously opening and closing said poppets in pairs each pair consisting of one poppet for said supply duct and one poppet for said exhaust duct, whereby said working piston may be reversely displaced and be hydraulically locked in position by fluid trapped on opposite sides of said working piston as a result of closure of all said poppets.

2,590,941

SHIPPING CRATE

Burton C. Colt, Jr., Washington, Pa., assignor to Tri-State Engineering Company, Washington, Pa., a corporation of Maryland

Application June 7, 1949, Serial No. 97,511
3 Claims. (Cl. 220—7)



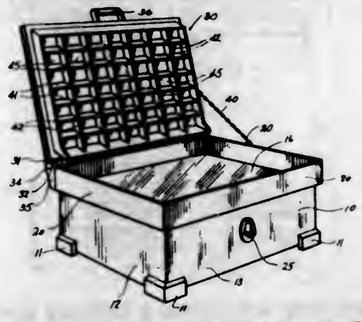
1. A crate having vertical walls whose lower edges are adapted for connection to a bottom wall, means for releasably connecting the vertical walls together at corners of the crate, comprising vertically-extending guide devices on one vertical wall, a latch bar having an elongated loop surrounding said guide devices and having limited movements thereon in vertical and horizontal directions, and extending in a generally horizontal direction, to a point adjacent to a vertical edge of the wall, a hook on the outer end of the bar, in a plane perpendicular to the loop and a keeper on the adjacent edge of another wall, engageable by the said hook, the inner end of the bar being shiftable vertically on the said guide device when the hook is engaged with the keeper.

2,590,942

COOKING STOVE

Carroll Cornelius, Seattle, Wash.

Application September 13, 1948, Serial No. 49,010
1 Claim. (Cl. 99—347)



In a stove for frying meats having a flat top plate providing a frying surface, and enclosing walls extending upwardly from the periphery thereof to provide a pan-like container of substantial depth: a flat lid hinged at one edge to the container, to close tightly thereover and adapted to be lifted to a substantially upright open position; said cover having a plurality of thin flat ribs formed across its under surface, in spaced relationship and parallel with the hinge axis of the lid, and having other ribs crossed therewith and dividing the ribbed area of the lid into a plurality of individual pockets for the collection and condensation of cooking vapors therein, and from which ribs the condensed vapors will be caused to drip when the lid is closed; those ribs which are parallel with the hinge axis being inclined relative to the lid to slope downwardly and away from the lid to cause the draining of condensed vapors therefrom and their return into the container when the lid is supported in its open position.

2,590,943

FOUNTAIN PEN

Alexander N. Coskey, Mattawan, Mich., and Otto E. Erikainen, Chicago, Ill.

Application May 6, 1947, Serial No. 746,182
1 Claim. (Cl. 120—48)



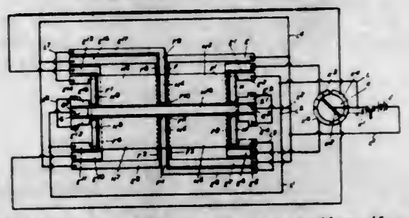
In a fountain pen having a barrel and a sleeve slidable in the barrel from a retracted position within the barrel to an extended position, a pen point supporting member on one end of the sleeve formed with a laterally opening passage therein, an ink sac mounted on said pen point supporting member and having one end overlying said opening and spaced therefrom in the extended position of the sleeve, a tongue swingable on said sleeve and extending longitudinally thereof, a tip on said tongue overlying said opening biased upwardly therefrom in the extended position of the sleeve, a cam on said tongue, a cam engaging member on the barrel engageable with said cam in the retracted position of the sleeve for depressing said tip to engage the sac and hold it in closing position relative to said opening, and means rotatable on the barrel engaging the sleeve for selectively extending and retracting the sleeve.

2,590,944

ELECTRICAL HEATING APPARATUS

Cecil Louis Cowdrey, Markyate, and John Kinsella, Luton, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain

Application December 27, 1949, Serial No. 135,182
In Great Britain January 3, 1949
7 Claims. (Cl. 244—134)



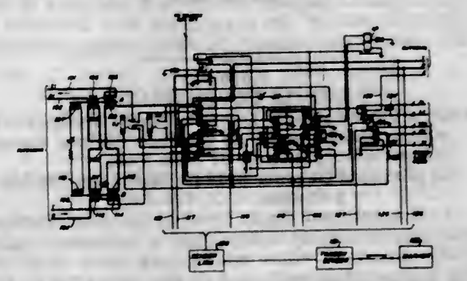
1. Means for reducing or preventing the formation of ice on a surface comprising a series of resistance heating elements in the form of thin metallic layers covering different areas of the surface and electrically insulated from one another, terminals electrically connected to said layers, respectively, and adapted to be connected to a source of electric heating current supply, control means associated with at least one of said terminals whereby the corresponding heating element is connected continuously to such current source when said control means is in operation, and an interrupter switch apparatus connected to another of said terminals including automatic operating mechanism which when said control means is in operation connects at least one other of the elements intermittently at predetermined time intervals and for predetermined time intervals to the current source.

2,590,945

TRUNK CIRCUIT

Robert B. Curtis, Bethlehem, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

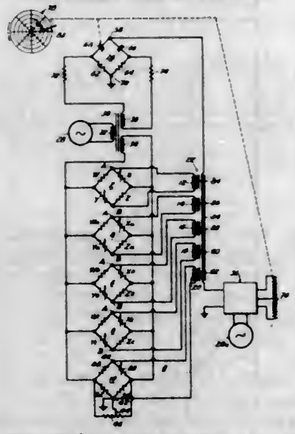
Application October 31, 1950, Serial No. 193,263
6 Claims. (Cl. 179—16)



1. In a telephone system, a trunk circuit, a four-wire trunk incoming to said trunk circuit, a two-

wire trunk outgoing from said trunk circuit, a hybrid coil for constituting a talking connection between said incoming trunk and said outgoing trunk, said hybrid coil having a set of incoming windings, a set of outgoing windings and a set of balancing windings, an incoming supervisory relay, an outgoing supervisory relay, means for normally connecting said incoming trunk through said incoming and outgoing windings to said incoming supervisory relay, and means for connecting said incoming trunk to said incoming supervisory relay independent of said outgoing windings and for connecting said outgoing windings to said outgoing trunk and said outgoing supervisory relay.

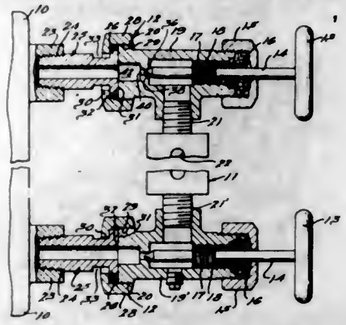
2,590,946
COMBINING MEASURING CIRCUIT
Horace E. Darling, North Attleboro, Mass., assignor to The Foxboro Company, Foxboro, Mass.
Application June 23, 1948, Serial No. 34,715
6 Claims. (Cl. 177—351)



1. In a measuring apparatus for combining algebraically a plurality of measuring voltages, in combination, a collection transformer having a plurality of separate magnetic circuits, a plurality of separate primary windings each coupled to one of said magnetic circuits, and a common secondary winding coupled to each of said magnetic circuits, a plurality of electrical bridge networks each containing a condition sensitive element, each of said bridge networks being coupled to one of said primary windings, a high impedance measuring device connected to said secondary winding and responsive to the voltage output of said secondary winding, and a capacity balance bridge under control of said measuring device for generating a null-producing voltage opposing said voltage output of said secondary winding, whereby the unbalance adjustment of said capacity balance bridge is a measure of the algebraic sum of the magnitude and direction of the unbalance voltages of said bridge networks.

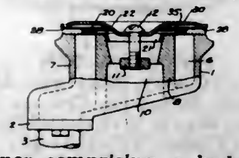
2,590,947
LIQUID LEVEL GAUGE
Jean Charles Denis, Detroit, Mich., assignor, by mesne assignments, to Buffalo Eclipse Corporation, a corporation of New York
Application October 8, 1949, Serial No. 120,301
3 Claims. (Cl. 73—332)

1. A combined liquid level gauge and multiple coupling assembly comprising a columnar gauge body, a pair of valve bodies, one valve body being arranged at each end of the gauge body, and coupling means for connecting each valve body to a liquid-containing receptacle or the like, at least one of said coupling means comprising a coupling section carried by the valve body and having a port therein disposed upon an axis substantially perpendicular to the columnar gauge body, said port interiorly communicating through the valve body with the gauge body, a relatively wide, substantially flat terminal seat formed upon said coupling section and substantially perpendicular to the axis of said port, a tubular coupling portion adapted for connection to such a liquid-containing receptacle and having a terminal flange and a flat seat forming one side of the flange, said last-mentioned seat forming in effect an enlarged end of said tubular coupling portion, said last-mentioned seat and flange being of lesser diameter than the first-mentioned seat but of greater diameter than said port, a hollow coupling nut securable to said coupling section of



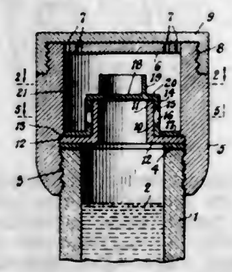
the valve body and having a bridging portion to extend around said flange and an overhanging portion adapted to overengage and extend inwardly beside an outer face of said flange to retain the same and thereby prevent separation of said tubular coupling portion and valve body, the internal diameter of the bridging portion of the coupling nut being substantially greater than the external diameter of said flange, the minimum diameter of the overhanging portion of said nut being substantially greater than the outside diameter of the part of the tubular coupling portion encircled thereby but of lesser diameter than said flange.

2,590,948
GAS BURNER AND CAP FOR SUPPLYING SECONDARY AIR
Donald E. Du Perow, St. Clair Shores, Mich., assignor to Lincoln Brass Works, Inc., Detroit, Mich., a corporation of Michigan
Application August 3, 1950, Serial No. 177,513
1 Claim. (Cl. 158—116)



A gas burner comprising, a body having inner and outer annular walls defining a gas chamber therebetween, and the inner wall defining an opening for secondary air, said walls having top surfaces, a port ring having an inner flat part seating on the top surface of the inner wall and having an outer peripheral part of corrugated form with the corrugations running substantially radially, the lower crests of the corrugated form seating on the top surface of the outer wall with the grooves on the underside of the port ring constituting ports communicating with the gas chamber for the flow of gas through the ports to support gas flames, a cap member having an outer peripheral part seating on the upper crests of the corrugated form, means securing the cap to the body, the central part of the cap closing the said opening for secondary air, said cap being spaced from the port ring to provide a chamber above the port ring, the port ring having a central opening therein which registers with the opening defined by the inner wall of the body so that secondary air may flow from the opening in the body into said chamber, the grooves of the corrugated form on the upper side of the port ring constituting ports for the flow of secondary air therethrough to be discharged between the ports on the underside of the port ring.

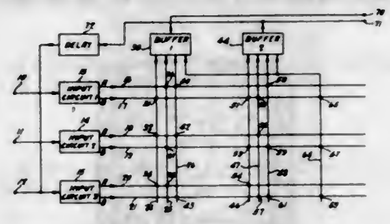
2,590,949
BOTTLE CLOSURE
Felix Dworacek, New York, N. Y.
Application August 9, 1950, Serial No. 178,395
3 Claims. (Cl. 215—21)



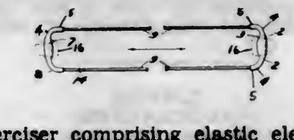
1. A bottle closure comprising, a seat fixedly mounted on the top edge of a bottle, an enclosure secured to the bottle and retaining the seat against the top of the bottle, the seat consisting of a central cylindrical sleeve in axial alignment with the mouth of the bottle and having a radial flange resting against the bottle top, a valve member of cup-shaped form slidably fitted over and located wholly on the outside of the cylindrical sleeve, said valve member having an apertured side wall and a closed top, said closed top serving to close the upper end of the sleeve when the valve member is in its closed position, the valve member having an outwardly-extended radial flange on its lower end closely approximating the internal diameter of the enclosure, said flange closely, but slidably, fitting the enclosure and adapted to rest on the radial flange of the seat when the valve member is in closed position, the valve member having a sliding movement on the sleeve in a direction away from the seat when the bottle is tilted, to bring the apertures in the valve member beyond one end of the sleeve, and the enclosure having diametrically spaced outlet openings from which the contents of the bottle are poured when the bottle is tilted, with one of said openings constituting an air vent when the bottle contents pour from the other opening.

2,590,950
SIGNAL RESPONSIVE CIRCUIT
John Presper Eckert, Jr., Gladwyne, and John W. Mauchly, Ambler, Pa., assignors to Eckert-Mauchly Computer Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application November 16, 1950, Serial No. 195,954
15 Claims. (Cl. 177—353)

1. In combination; three input devices, each comprising a pair of output leads which have differing electrical states, and an input lead adapted to receive stimuli for reversing the electrical states of said pair of output leads; first and second output units delivering an output signal upon excitation; and a selecting network comprising three pairs of input conductors respectively connecting with the pairs of output leads of said input devices; said selecting network exciting said first output unit upon stimulation of only one of said input devices, exciting said second output unit upon joint stimulation of only two of said input devices, and exciting said first and second output units upon concurrent stimulation of said three input devices.



2,590,951
ELASTIC CORD EXERCISER
Sumner Farison, near Napoleon, Ohio
Application April 3, 1950, Serial No. 153,570
1 Claim. (Cl. 272—82)

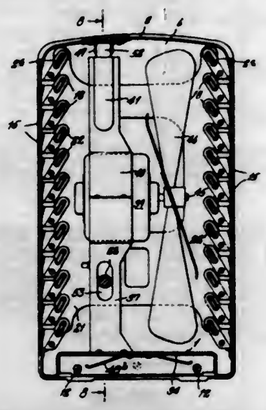


An exerciser comprising elastic elements, an extensible jacket therefor to form an endless cylindrical bundle, a pair of tubular hand grips thru which the bundle extends with the jacket spacing the elements from the grips, said grips being of general U-shape with a grasp enlargement at the cross over for the U-sufficient to centralize the band at grasping to be clear of the legs of the U, said legs being spaced to provide arm clearance to swing freely between reaches of the elastic body upon stretching thereof, one of said U-grips having its elbow arc connection to its cross over different in arc from the other elbow of said same grip, coacting thereby to differentiate between the tension action of the reaches upon stretchings of the body to respond upon tension release for step by step lineal progress of the body thru the respective grips in uniformly subjecting the body to wear action thruout its length.

2,590,952
PORTABLE ELECTRIC FAN
Alfred F. Fukal, Cambridge, Ohio, assignor to William W. Welch, Cincinnati, Ohio
Application January 13, 1949, Serial No. 70,780
4 Claims. (Cl. 230—274)

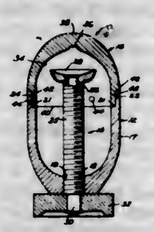
1. A case including opposite end panels with their mutually opposed insides provided with oppositely registered pins arranged in rows extending longitudinally respecting said panels, a series of louvers each having longitudinally extending pin holes at their opposite ends receiving said pins so that said louvers are pivotally mounted thereby transversely between said end panels, levers extending transversely from said louvers at least at one end of said series thereof, whereby

said levers are substantially parallel to said end panels, a slide board arranged between said levers and one of said end panels adjacent thereto, whereby said board is positioned respecting lateral separation from said end panel, and pin and slot connections between each of said levers and said board and adapted to cause simulta-



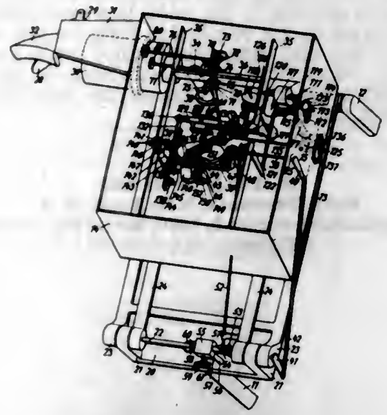
neous swinging of said levers and linear movement of said board in a direction parallel said series, and means for reciprocating said board in line with said movement thereof, whereby to cause simultaneous swinging of said levers with resulting angular adjustment of said louver series.

2,590,953
NUTCRACKER
Louis Gendler, New York, N. Y.
Application October 18, 1949, Serial No. 122,096
5 Claims. (Cl. 146—14)



1. A nut cracker comprising a cupped member and a removable cap for releasably closing one end of said cup and defining with the latter a substantially closed container for a nut, interengaging securing means provided directly on said cupped member and on said cap, respectively, for locking them releasably in fixed relation, said cupped member having a screw-threaded opening at its other end, a screw-threaded rod rotatably mounted in said cupped member and engageable therewith in said threaded opening for movement axially of said cupped member when the rod is turned, and a nut-clamping member carried by said rod at the inner end thereof within the cupped member whereby, when said securing means are mutually engaged, the inner surface of said cap provides a fixed abutment confronting said clamping member to hold the nut against bodily movement in said container while said clamping member is operated to press the nut against said surface in the nut-cracking operation.

2,590,954
SIGHTING DEVICE FOR WEAPONS
Alfred Gerber, Zurich, Switzerland
Application August 22, 1945, Serial No. 612,036
In Switzerland August 23, 1944
7 Claims. (Cl. 33—49)



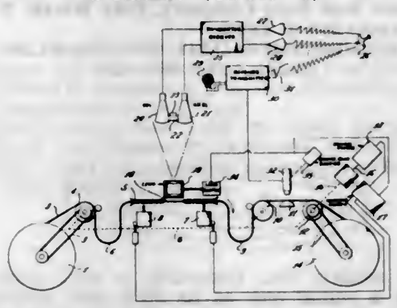
1. In an aiming device, in combination with a gun, means for setting the gun laterally and in elevation, a reflex sight comprising a carrier, means rotatably supporting said carrier about an axis of said reflex sight, said axis serving as the direction for the projection of the center point of the reflex into the eye of an observer, means constituting a straight directional line firmly mounted upon said carrier and extending through the axis of rotation thereof, optical means for projecting said straight line into the eye of the observer, means firmly connecting said sight with the gun for transmitting the changes in the elevation of the gun to said sight, driving means for rotating said carrier, said driving means comprising a shaft, means maintaining said shaft vertical irrespective of the changes in elevation of said sight, means connected with the first mentioned means and said shaft for transmitting each lateral rotation of the gun to said shaft in the form of a rotation of the same magnitude but of opposite direction, a manually operable drive for rotating said shaft independently of said transmitted rotation thereof, another shaft extending parallel to the optical axis of the sight, a drive operatively connecting said carrier with the second mentioned shaft, and means interconnecting said shafts for transmitting the rotation of the first mentioned shaft to the second mentioned shaft whereby said manual drive sets said directional line parallel to the apparent target direction.

2,590,955
EYEGLASS CASE
Irvin J. Gershen, Hillside, N. J., assignor to Sidney Zaifert, Jersey City, N. J.
Application January 16, 1951, Serial No. 206,225
3 Claims. (Cl. 220—31)



1. A case of plastic material formed in two sections, longitudinally extending pins adjacent each end of the first section, and longitudinally extending sockets adjacent each end of the second section, said sockets each including an entrant portion open at one end for the entry of one of said pins therein and terminating at the other end in a generally rounded bottom portion, and at least one ear extending inwardly in said entrant portion, whereby to make the effective width of said entrant portion at one point above said rounded bottom portion to be slightly less than the diameter of said pin, and the diameter of said rounded bottom portion being slightly greater than said diameter of said pin, whereby said pin can be inserted through said entrant portion and forced past said ear by resilient expansion of the plastic material constituting the socket, and can then enter into and freely rotate within said rounded bottom portion, whereby to constitute a hinge for said two portions of the case.

2,590,956
VOICE AND VISUAL RECORDER
Benson D. Gille, Los Angeles, Calif.
Application August 25, 1947, Serial No. 770,529
2 Claims. (Cl. 343—6)



1. In a ground controlled approach system for a piloted airplane wherein radar equipment is provided to visually and continuously indicate information such as the instantaneous position of said airplane, in relation to a desired line of flight, and other relevant data, the combination of a film strip, means for moving said strip intermittently and continuously over a path, voice transmitting and receiving equipment both on the ground and in said airplane, sound recording means positioned to record a first sound track on said strip in the continuous motion portion of said path, said sound recording means being responsive to said voice transmitting and receiving equipment on the ground, picture image recording means positioned to record first a set of pictures on said strip in the intermittent motion portion of said path, said pictures comprising images of said visual information indicated and recorded simultaneously with the co-existing sound, the width of said images being less than the width of the usable portion of said strip by a space sufficient to contain a plurality of side-by-side sound tracks, means for spacing the images of said set along the length of said strip with a number of image lengths between successively recorded images, said number equalling one less than said plurality, means acting to reverse said film strip when a predetermined point close to each end thereof is reached, and indexing means acting simultaneously with said reversing means to index said sound recording means laterally of said strip to produce successive sound tracks parallel to said first sound track, and to index said image recording means lengthwise of said strip to record additional sets of pictures between the images of prior recorded sets.

2,590,957
ORGANOSILOXANE RESINS CONTAINING AS SUBSTITUENTS $(CH_3)_2SiCH_2$— OR $(CH_3)_2C_6H_5SiCH_2$—
John T. Goodwin, Jr., Midland, Mich., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application May 1, 1950, Serial No. 159,393
3 Claims. (Cl. 260—46.5)

1. An organosilicon copolymer resin containing units of the formula $RSiO_{1.5}$ and

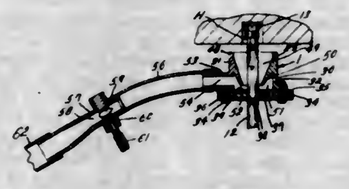
$$R'_nSiO_{\frac{4-n}{2}}$$

where R is a substituent selected from the group consisting of $(CH_3)_2SiCH_2$— and

$$(CH_3)_2C_6H_5SiCH_2—$$

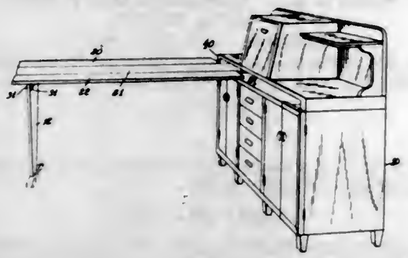
R′ is a radical selected from the group consisting of alkyl and monocyclicaryl radicals, and n has an average value of from 1 to 2 inclusive, the remaining valences of the silicon atoms of said units being satisfied by oxygen atoms, in which the ratio of R+R′ to Si is from 1 to 1.6 inclusive, and in which, the said units are connected by silicon-oxygen-silicon bonding.

2,590,958
DUST COLLECTOR
Ross Harry Goodrich, Claremont, N. H., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 19, 1950, Serial No. 139,510
6 Claims. (Cl. 255—50)



1. A dust collector adapted for association with the drill steel of a rock drill which is adapted to drill a hole in a working face, comprising a collector housing surrounding the drill steel and having a circular outer wall and an inverted frusto-conical portion providing a tapered chamber of circular cross section through which the steel extends and disposable with its wide end close to the working face at the mouth of a drill hole from which dust to be collected emerges during the drilling operation, said conical portion having an annular conical flange projecting inwardly and axially from said outer wall, said housing having a circular recess into which said conical flange extends with the end of said flange at the narrow end of said tapered chamber spaced from the recess bottom, means connected to said housing for creating a suction within said recess whereby dust laden air is drawn into the wide end of and axially through said tapered chamber, the air flowing over the rim of said conical flange at the narrow end of said chamber into said recess, a discharge passage communicating with said recess and through which such dust laden air is discharged, said passage opening through the outer circular wall thereof above the recess bottom, and sealing means carried by said housing at the recess bottom and embracing the steel body to reduce leakage from said recess.

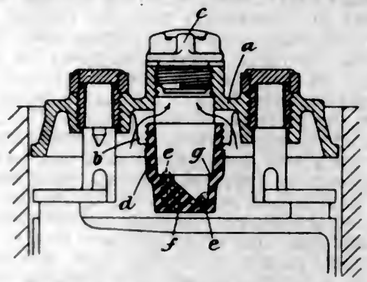
2,590,959
COMBINED WRITING DESK AND TABLE
David Granditer, New York, N. Y.
Application October 9, 1947, Serial No. 778,807
1 Claim. (Cl. 312—300)



The combined writing desk, buffet and table having the upper surface of the buffet extending a slight distance in front of the surface of the writing desk, whereby to form a ledge, a table comprising three foldable sections hingedly connected, the center section being of a greater length than the two other sections and being supported by said ledge when in an extended position, said center section having one end thereof pivotally mounted between the surfaces of the buffet and the writing desk, an inserted piece having a slanting edge portion upon the inner side thereof and being secured between the surfaces of the buffet and writing desk at one end thereof; the inner end of the center section being upon one side thereof formed with a curvature and upon the other side with a slantingly cutaway portion adapted to register with the slanting edge portion of said inserted piece, when the table sections are folded and withdrawn between the surfaces of the buffet and writing desk, a leg fast on the center section of said table, the top surface of the buffet terminating a short distance from the end of the latter, whereby to form a narrow compartment throughout one end of said buffet, shelves disposed in said compartment and being of a lesser width longitudinally than the latter, leaving a space between said shelves and the end-wall of the buffet adapted to receive the leg of said table, when the latter is in folded and withdrawn position, and a door hinged to the end-wall of the buffet and adapted to close said latter compartment, whereby to give the front of the buffet a uniform appearance.

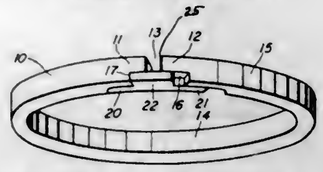
2,590,960
ELECTROLYTE LEVEL INDICATOR AND ANTISPLASH DEVICE FOR ELECTRIC ACCUMULATORS
Robin Gray, Clifton Junction, near Manchester, England, assignor to The Electric Storage Battery Co., a corporation of New Jersey
Application February 12, 1947, Serial No. 728,048
In Great Britain September 3, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 3, 1965
2 Claims. (Cl. 136—182)

1. In an electric accumulator, the combination of an apertured cover, a slotted skirt dependent from said cover and communicating with said aperture, a baffle cup attached to said skirt partially closing said slots and having at least one opening therein, the floor of said baffle cup coinciding with the minimum electrolyte level, a shoulder internally of said cup corresponding with the normal electrolyte level, and a partition within said cup, the top edge of such partition sloping from the normal electrolyte level to the



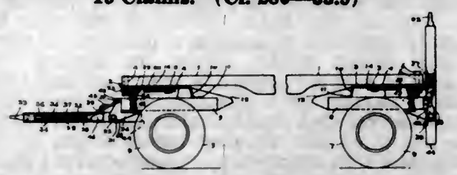
minimum electrolyte level for indicating level of electrolyte between said shoulder and said floor.

2,590,961
SEALING RING
William T. Green, Fort Worth, Tex., assignor to Double Seal Ring Company, Fort Worth, Tex., a corporation of Texas
Application May 14, 1949, Serial No. 93,365
7 Claims. (Cl. 309—47)



1. A sealing ring including, a split annulus having a radial gap at its split and undercut steps cut circumferentially back from its split ends and extending radially from its inner face to its outer face, the ends of the ring having circumferential grooves in its inner face extending from the steps, and a sealing member bridging the gap across and under the steps having tongues on its inner ends engaging in the grooves, one tongue and an adjacent portion of the member being secured in one of the grooves and its step and the other end of said member and its tongue being free.

2,590,962
DETACHABLE DOLLY AND TRAILER
William S. Gurton and Herman Nyberg, Kitchener, Ontario, Canada, assignors, by mesne assignments, to Brantford Coach and Body Limited, Brantford, Ontario, Canada
Application September 12, 1947, Serial No. 773,566
13 Claims. (Cl. 280—33.5)



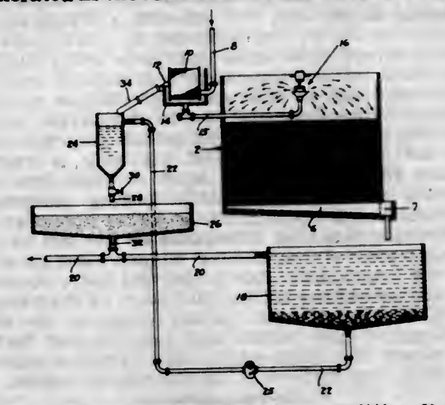
11. In combination a trailer frame having identical king pins and upper fifth wheel members arranged at each end thereof, and a pair of detachable, interchangeable dollies adapted to support said frame and having fifth wheels adapted to receive said king pins and to co-operate with said upper fifth wheel members carried by said trailer frame to permit said dollies to rotate about said king pins relative said frame, each of said dollies having a hollow draw bar hinged thereto to swing vertically for selective connection to a draft vehicle and having resilient releasable means for resiliently holding said draw bar in a substantially horizontal position against vertical displacement in either direction to facilitate the hitching of the dolly to said frame, said means including a connection between said draw bar and dolly comprising a longitudinal coil spring contained in said hollow draw bar against lateral displacement and secured at one end thereof to one end of said draw bar, a rigid connector pivotally connectable at one end thereof to said dolly, and means pivotally connecting the free ends of said spring and connector together, means for locking the dolly forming the support for the end of the trailer selected as the rearward end from rotation about its king pin relative the trailer frame, and means operable upon release of said resilient means to lock the draw bar of the dolly forming the support for the rearward end of the trailer frame in an inoperative position.

2,590,963
HOSE REEL CONSTRUCTION
Richard Hannay, Westerlo, N. Y., assignor to Clifford B. Hannay & Son, Inc., Westerlo, N. Y., a corporation of New York
Original application June 16, 1948, Serial No. 33,260, now Patent No. 2,506,830, dated May 9, 1950. Divided and this application February 2, 1950, Serial No. 141,893
4 Claims. (Cl. 242—87)

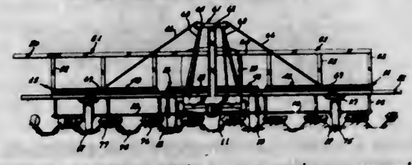
1. In a reel apparatus, a frame comprising a one-piece length of metal bent into a generally U-shaped formation to provide a pair of spaced arms and integral base portions extending angularly from said spaced arms in the same general direction, a rigid substantially straight rod brace at each side of said frame extending diagonally between each arm and its associated base portion and secured thereto to hold said arm and base portion in rigid relation to each other, and a reel comprising a shaft having its ends projecting from the sides of said reel and supported in bearings on said rigid rod braces of the frame.

2,590,964
PROCESS OF TREATING SEWAGE
H. Orin Halvorson, St. Paul, Minn.
Application September 26, 1947, Serial No. 776,195
11 Claims. (Cl. 210—7)

1. A process of treating sewage which comprises, passing unsettled raw sewage through a trickling filter open to atmosphere, collecting sludge from the effluent, and adding a member of the group of compounds consisting of ferric chloride, ferric sulphate, ferrous sulphate and ferrous chloride, to said undigested sludge and supporting said sludge upon a sand bed while solid particles therein are supported by bubbles generated in the reaction between the added compound and the sludge, thereby permitting liquid from the sludge to drain through the sand bed.



2,590,965
COLLAPSIBLE VEGETABLE PACKING APPARATUS
Charles E. Huston, San Marino, Calif.
Application January 4, 1947, Serial No. 720,291
10 Claims. (Cl. 214—83.1)



1. A vegetable packing apparatus comprising a power vehicle having an auxiliary frame extension at one end, wings extending laterally from the extension and having a hinged connection thereto, aligned catwalk sections suspended beneath the wings and the extension, aligned full-crate conveyor sections on the wings and the extension, and aligned empty-crate conveyor sections supported above the wings and the extension, said wings together with the respective catwalks and conveyor sections being collapsible upon the vehicle into a compact arrangement suitable for highway travel.

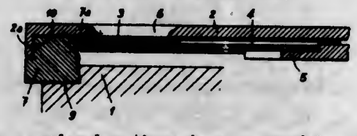
2,590,966
SCRAPING TOOL
Eugene P. Heller, Madison, N. J., assignor to Heller Brothers Company, Newark, N. J., a corporation of New Jersey
Application September 29, 1949, Serial No. 118,679
1 Claim. (Cl. 30—172)



A scraping tool of the oscillating blade type comprising an elongated body having intermediate its ends a plurality of longitudinally spaced grooves of inverted V-shape in cross-section extending across its bottom oblique to the longitudinal axis of the body, scraper blades respectively occupying respective oblique grooves with their upper longitudinal edges fulcrumed by the apices of said grooves for back and forth rocking movement therein, the lower longitudinal edges of said blades being sharpened to provide for-

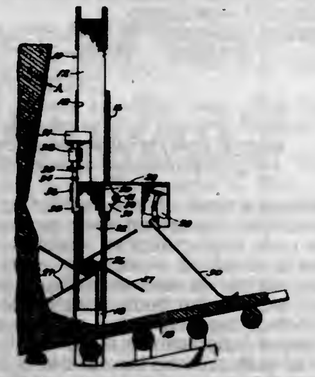
wardly and rearwardly presented cutting edges, whereby said blades, due to their transversely oblique disposition, will cut with a slicing action when the body is reciprocated in a path parallel to its longitudinal axis, said body being further provided intermediate each end thereof and the adjacent end of the group of oblique scraper blades with a terminal groove of inverted cross-section extending across its bottom perpendicular to the longitudinal axis of the body, a tracker blade fulcrumed in the apex of each terminal groove for back and forth rocking movement therein, said tracker blades being operative to prevent substantial divergence of the tool in use from a path of longitudinal reciprocation parallel to the longitudinal axis of the tool body, whereby to assure desired slicing cut action of the oblique scraper blades, and means common to said oblique scraper blades and said tracker blades to retain the same within their grooves subject to back and forth rocking movement therein.

2,590,967
DIAL RETAINER FOR CALENDAR TIMEPIECES
Marc Huguenin, Geneva, Switzerland, assignor to Montres Rolex S. A. (Rolex Watch Co. Ltd.), a corporation of Switzerland
Application February 21, 1951, Serial No. 211,990
In Switzerland February 28, 1950
2 Claims. (Cl. 58—58)



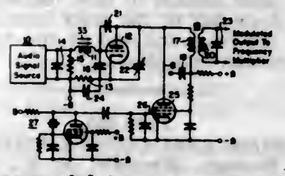
1. In a calendar timepiece comprising a fixed dial and a rotary dial carrying the indications of the calendar and situated underneath the fixed dial, a base plate provided with an undercut peripheral groove, a split ring snapped into said groove and cooperating with said rotary dial for retaining it in place, said fixed dial having a depending tubular flange at its outer periphery fitting tightly over said ring so as to prevent it from opening, this arrangement also serving as a means for securing the fixed dial in place.

2,590,968
FEEDER FOR SOLID MATERIALS
Hardin F. Hill, Columbia, Tenn., assignor to International Minerals & Chemical Corporation, a corporation of New York
Application October 17, 1950, Serial No. 190,586
8 Claims. (Cl. 198—54)



1. An apparatus for delivering material comprising a hopper, an outlet for said hopper, a conveyor positioned adjacent the outlet of said hopper upon which the material is transferred, a multiple arm gate mounted for free rotational movement at the outlet of said hopper, elevating means for said gate to govern the depth of material on said conveyor, means for arresting rotational movement of the gate, and means responsive to the height of material on said conveyor for actuating the means for arresting rotational movement of the gate.

2,590,969
PHASE MODULATOR
Alan Hazeltine, Maplewood, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 16, 1949, Serial No. 127,696
17 Claims. (Cl. 332—27)



1. A phase modulator comprising an electron tube having a control grid, a cathode, and an anode, means for applying signal voltages to said grid and cathode, a source of carrier oscillations connected to said anode, a primary output circuit connected to said anode, a secondary output circuit coupled to said primary circuit, said primary and secondary circuits having parameters so proportioned that each of said circuits has a resonant frequency substantially lower than the frequency of said oscillations, and regenerative means including a predominantly capacitive impedance between said anode and said grid and a predominantly inductive impedance between said grid and said cathode.

2,590,970
VEHICLE JACK
Aage Jensen, Kenosha, Wis.
Application February 28, 1947, Serial No. 731,657
10 Claims. (Cl. 254—100)

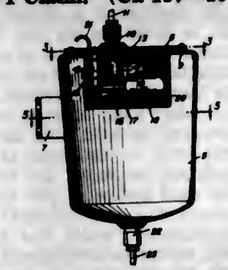


1. In a jack, a base, a standard mounted on said base, a bracket fixed to the upper ends of the standard and extending laterally therefrom, a jack screw journaled in said bracket for rotation therein, means to turn said jack screw, a load lifting nut threadably engaged by said jack screw, a roller mounted on one side of said nut for rolling engagement with said standard, a U-shaped yoke pivoted to said nut and having means thereon for engagement with the bumper of an automobile.

2,590,971
HYDROGENATED VINYLCYCLOHEXENE-DIMER
Herbert L. Johnson, Media, Pa., and Frances J. Bondhus, Oskaloosa, Iowa, assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
No Drawing. Application November 24, 1945, Serial No. 630,694
2 Claims. (Cl. 260—666)

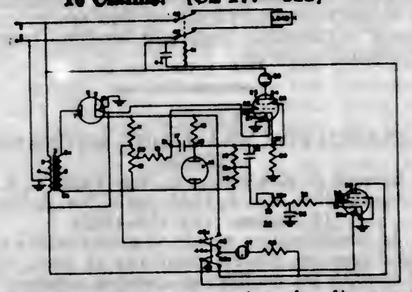
1. Hydrogenated vinylcyclohexene dimer having the empirical formula $C_{16}H_{32}$.

2,590,972
LIQUID FUEL FEEDING SYSTEM
Walter L. Johnson, Kimball, S. Dak.
Application July 30, 1947, Serial No. 764,685
1 Claim. (Cl. 137—104)



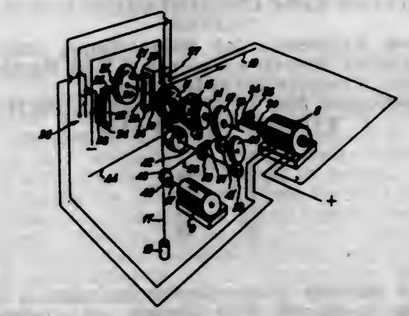
In a fuel feed system for engines including a gravity feed tank having a top, a fitting adapted for attaching in the top of the tank, said fitting having a valve seat therein and a needle valve engaging the seat, a hanger extending downwardly from the top of the tank, a float arm pivoted to the hanger and having a float at its outer end, said arm underlying the needle valve to actuate the latter, and a cage of filtering material enclosing the valve and float, said cage being fastened to the bottom surface of the top of the tank, and a part of said cage constituting a stop to limit opening movement of the valve.

2,590,973
OVERVOLTAGE RESPONSIVE CONTROL CIRCUITS
Robert L. Jordan, Garland, Tex.
Application March 25, 1950, Serial No. 151,891
16 Claims. (Cl. 177—311)



14. An overvoltage responsive circuit comprising: An alternating current supply circuit; means operatively associated with said supply circuit for producing a first potential which varies in accordance with the voltage of said supply circuit; a first electric valve connected in series with a glow discharge means and a resistance across said supply circuit, said electric valve being provided with a control member; means for impressing said first potential on said control member, said first electric valve being rendered conductive when the voltage of said supply circuit reaches a predetermined value; a second electric valve connected across said alternating current supply circuit and provided with a control member; means operatively associated with said resistance and responsive to the flow of current through said resistance for impressing on said control member of said second electric valve a potential which varies in accordance with the voltage of said supply circuit, said second electric valve being rendered conductive when said potential is impressed on said control member of said second electric valve; means operatively associated with said last mentioned means and said control member for delaying the application of said second potential to said control member of said second electric valve for a predetermined period of time, said predetermined period of time varying in accordance with the voltage of said alternating current supply circuit; relay means connected to said second electric valve for energization when said second electric valve is rendered conductive; and test means for testing the operativeness of said overvoltage responsive circuit while the voltage of said supply circuit is less than the predetermined value, said test means being operatively associated with said first mentioned means for rendering said first electric valve conductive, said switch means also simultaneously connecting a glow discharge means in series with said second electric valve, said first and last mentioned glow discharge means becoming illuminated if said overvoltage responsive circuit is operative.

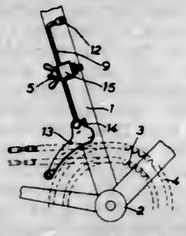
2,590,974
ODDS RATIO RELAY UNIT FOR RACE TOTALIZATORS
Awdry Francis Julius, Sydney, New South Wales, Australia, and George Alfred Julius, deceased, late of Sydney, New South Wales, Australia, by Eva Dronghsia Odierna Julius, Killara, near Sydney, New South Wales, and Awdry Francis Julius and Russell Stuart Hicks, Sydney, New South Wales, Australia, executors, assignors to Automatic Totalisators Limited, Sydney, New South Wales, Australia
Application June 30, 1948, Serial No. 36,169
In Australia June 30, 1947
2 Claims. (Cl. 318—32)



1. In a race track totalizer including an odds computer and an odds indicator, a shaft driven from the odds computer, a cam on said shaft, said

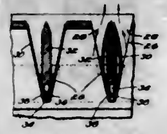
cam having diametrically opposed rest portions with a raised portion of increased radius therebetween, a pair of single-pole double throw switches each biased to close on one fixed contact, a pair of cam followers operatively connected respectively to the movable contacts of said switches and normally in engagement respectively with the rest portions of said cam to hold the switches in open circuit position and each operable to close the corresponding switch on one fixed contact or to allow said switch to close on the other fixed contact according to the direction of rotation of said cam, a motor for driving the odds indicator, and a field circuit for said motor including one side of a power line and one fixed contact of each of said switches, the movable contacts of both switches and the field, and the other fixed contact of each of said switches and the opposite side of the power line.

2,590,975
CHANGE-SPEED GEAR FOR CYCLES AND THE LIKE
Lucien Juy, Dijon, France
Application December 9, 1949, Serial No. 132,037
In France December 14, 1948
11 Claims. (Cl. 74—242)



1. A change speed gear for bicycles and the like vehicles incorporating a tubular frame comprising a pedal gear including two coaxial discs of different diameters, a chain adapted to be shifted from one disc to the other, a pivot rigid with the frame above the pedal gear, a member adapted to rock round said pivot in a vertical plane parallel to the axes of the discs, a lever rigid with said member and adapted to rock therewith round the pivot through hand actuation of its upper end, means carried by the lower end of the lever for positively engaging the chain and shifting it from one of its disc engaging positions to the other, and means associated with the pivot for frictionally engaging the rocking member.

2,590,976
SPLITTER VANE CONSTRUCTION FOR GAS VALVES
Andrew Kalitinsky, Oak Ridge, Tenn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 15, 1947, Serial No. 748,174
8 Claims. (Cl. 251—119)



1. A multiple valve assembly including a base having U-shaped slots therein, gas passages through said base and intersecting said slots, a U-shaped valve in each slot for closing the ends of the gas passages, a splitter vane in each slot engaging with the base of the valve for holding the valve in place, each vane having resilient fingers along the edge engaging with the base of the valve, and each vane also having integral rigid lugs at each end projecting beyond the end of the slots, and clamping means engaging simultaneously with a series of said rigid lugs for holding the attached splitter vanes in position.

2,590,977
FINGER HELD DOUBLE-FACED SHOE WAX APPLICATOR AND POLISHER
Gordon E. Kay, Tucson, Ariz.
Application January 13, 1947, Serial No. 721,701
2 Claims. (Cl. 15—114)



1. A finger held double faced shoe wax applicator and polisher comprising, in combination, a disk shaped body including a stiffening disk of fibrous material; a covering on one face of said disk of fibrous material consisting of coarse fabric having a polishing brush formed on its outer face by tufts of fibers looped therethrough; a covering of fabric on the other face of said body including a flat bag secured to said disk having parallel finger pockets with a partition therebetween adapted to be gripped between the user's fingers when inserted in said pockets; the outer face of said bag being made of napped fabric adapted to act as a wax applicator, while the face of said body covered with tufted coarse fabric constitutes a polishing brush when held in reversed position on the user's fingers.

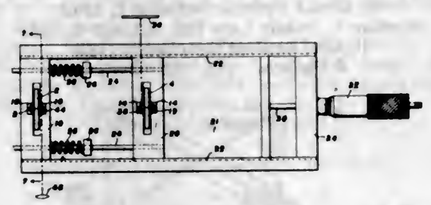
2,590,978
INTRODUCTION OF A DOUBLE BOND ADJACENT A KETO GROUP IN KETOSTEROIDS
Edward C. Kendall and Vernon R. Mattox, Rochester, Minn., assignors to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Application April 28, 1949, Serial No. 90,278. In Canada September 9, 1948
10 Claims. (Cl. 260—397.1)

1. Process for the introduction of a double bond between carbon atoms vicinal to a keto group in ketosteroids which comprises reacting a ketosteroid having an atom of bromine on the carbon atom alpha to the ketone group and a hydrogen on the next adjacent carbon with a hydrazine derivative of the group consisting of the monocyclicarylhydrazines and semicarbazide thereby eliminating hydrogen bromide from the kerosteroid molecule.

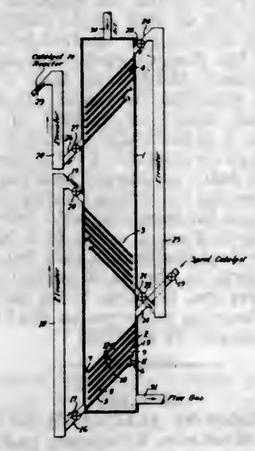
2,590,979
SYSTEM FOR MEASURING MAGNETIC FIELDS
Ervand G. Kogbetliantz, New York, N. Y.
Application May 6, 1948, Serial No. 25,394
10 Claims. (Cl. 175—183)

1. In combination, a pair of permanently magnetized needles, means mounting at least one of said needles for oscillation about a common axis of the needles perpendicular to the magnetic axes of both, the spacing between said needles being

less than, but approximately, a critical distance as given by Equation 3 in the foregoing specification, and means for accurately adjusting the spacing between the needles.



2,590,980
APPARATUS FOR THE CATALYTIC CONVERSION OF HYDROCARBONS
George F. Kuhn, Sinclair, Wyo., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application June 21, 1947, Serial No. 756,292
3 Claims. (Cl. 23—288)



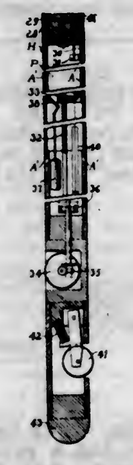
1. Apparatus of the character described comprising a regenerating chamber, a series of spaced, inclined, substantially parallel, perforated plates extending downwardly from one wall of the chamber to just short of the opposite wall at their lower ends, a further plate which is imperforate positioned beneath and substantially parallel to the series of perforated plates extending upwardly from an opposite wall to just short of the first said wall, a further plate positioned parallel to and between the lowermost perforated plate and the imperforate plate, the further plate being perforated over its lower portion and imperforate over its upper portion and substantially coextensive at its lower end with the perforated plates and extending at its imperforate end beyond the upper end of the imperforate plate but short of the adjacent wall, an inlet for introducing solid granular catalyst to the upper end of the upper perforated plate, an outlet for withdrawing catalyst from the lower end of the imperforate plate and means for passing air through the chamber.

2,590,981
PIVOTED BREECH CLOSURE AND LOCK MEMBER
Hanns Lippert and Erwin Hepperle, Zurich, Switzerland, assignors to Machine Tool Works Oerlikon, Administration Company, Zurich-Oerlikon, Switzerland, a Swiss company
Application June 16, 1948, Serial No. 33,356
In Switzerland June 20, 1947
6 Claims. (Cl. 89—190)



1. In an automatic firearm, in combination with a percussion mechanism for inserting a cartridge case into a firing position, two swingable bolts located on opposite sides of said percussion mechanism and two movable accumulators having bosses engaging said bolts and swinging them inwardly from an unlocked position to a locking position, and vice versa, said bolts engaging said percussion mechanism and the rear end of the cartridge case in said locking position, said accumulators having rearwardly directed projections and said bolts having noses engaging behind said projections in the unlocked position of said bolts.

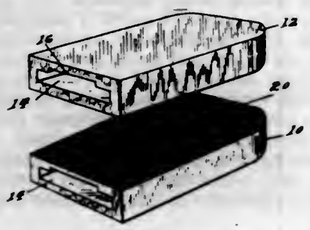
2,590,982
WELL LOGGING APPARATUS
Alfred B. Long, Beaumont, Tex., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application September 20, 1946, Serial No. 698,365
6 Claims. (Cl. 73—151)



1. A device for concurrently measuring and recording temperature, pressure and viscosity of well borehole liquids in situ comprising, in combination: a bomb apertured to admit well liquids and adapted to be raised and lowered in the tubing in a borehole; a longitudinally movable chart within said bomb; means to actuate said chart during the movement of said bomb; a pressure measuring instrument in said bomb arranged to record pressure variations on said chart; a liquid temperature measuring instrument in said bomb constructed to record temperature variations on said chart; and means adapted to be actuated by the movement of said chart to measure and record borehole liquid viscosities concurrently with the temperature and pressure recordings including a plurality of beads of mag-

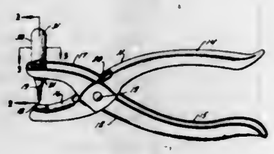
netic material within said bomb arranged to drop through the well borehole liquid therein, a bead release arranged to selectively drop one bead at a time, an activator for said bead release operated at controlled intervals by the movement of said chart, spaced electric fields along the path of the dropping beads, and recording means electrically coupled to said spaced fields responsive to the passage of the beads therethrough.

2,590,983
PROCESS OF MAKING WASH MITTS
Wallace J. Lorenz, Arlington, Calif.
Application December 29, 1948, Serial No. 68,010
1 Claim. (Cl. 18—55)



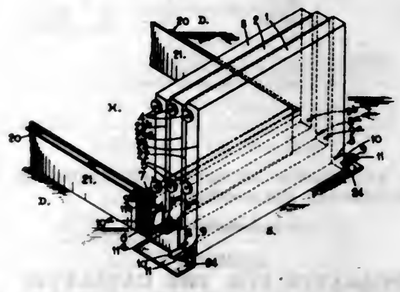
A method of making wash mitts comprising molding a quantity of sponge rubber to the desired shape and dimensions and with two openings therein and then separating the molded material into two portions, the separating cut being made along an intermediate longitudinal plane whereby two mitts, each having an opening therein and at least one porous surface, result.

2,590,984
PUNCH PLUG RECEPTACLE FOR HAND PUNCHES
Roy A. Lorenzen, Chicago, Ill.
Application May 13, 1949, Serial No. 93,139
2 Claims. (Cl. 164—121)



2. In combination with a hand punch having an apertured jaw and a punch tube provided with a screw-threaded boss threaded into the jaw aperture and extending through the jaw and an annular shoulder bearing against the inner side of the jaw around the aperture, a punch plug receptacle assembly comprising a lock nut threadable onto the punch tube at the side of the jaw remote from the punch tube shoulder, a cylindrical extension on the side of said nut remote from the punch jaw, and an elongated cup having a closed end and an open end telescopically engaged at its open end with said cylindrical extension and in communication with the punch tube, said cup being formed of transparent material and having a rounded end wall at its closed end and said lock nut locking said punch tube in said jaw and providing a support for said cup.

2,590,985
SHIP'S HATCH COVER
Joseph MacGregor, Whitley Bay, England
Application February 18, 1948, Serial No. 9,213
In Great Britain October 7, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires October 7, 1960
6 Claims. (Cl. 114—202)

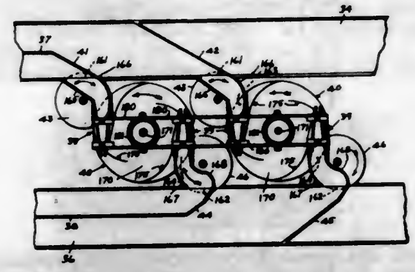


1. A hatch installation for a ship comprising parallel runways flanking a hatch opening; at least one cover member having in the horizontal closed position top and bottom faces, said cover member having means to facilitate transport along said runways to an upending position beyond an end of the hatch opening; identically disposed pairs of pivots on opposite sides and adjacent one end of said cover member, one of the two pivots of each pair thereof being disposed adjacent the top face of said cover member and the other adjacent the bottom face of said cover member and situated fore and aft of a plane containing the centre of gravity of said cover member when it is vertically upended; means for securing said cover member in the upended position; aligned pairs of spaced bearings adjacent said hatch opening providing front and back supporting surfaces for receiving said pairs of pivots, and to enable said cover when it is being raised to an open vertical position to rock from the front bearing supports to the back supports, the said cover in the vertical position being balanced only on the back bearing supports so that it tends to close automatically by gravity.

2,590,986
PRODUCTION OF ALIPHATIC NITRILES
Alexander F. MacLean, Robstown, and Donald E. Pickart, Corpus Christi, Tex., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
No Drawing. Application March 27, 1950, Serial No. 152,266
3 Claims. (Cl. 260—465.2)

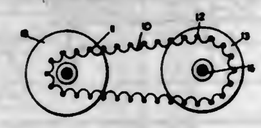
1. Process for the production of aliphatic nitriles, which comprises vaporizing a saturated aliphatic monocarboxylic acid containing at least two carbon atoms, mixing the vapors with ammonia in a ratio of 1 to 2 mols of ammonia for each mol of said acid vapor, passing the resulting reaction mixture through a reaction zone containing a catalyst selected from the group consisting of activated alumina, silica-alumina gel and alumina-thoria gel maintained in a fluidized state and at a temperature of from 300 to 400° C., allowing the reaction mixture to remain in contact with the catalyst for 0.1 to 1.0 seconds passing the mixture of reaction products formed into a stream of cooled xylene to condense the same, separating a xylene solution of aliphatic nitrile from the condensate and fractionally distilling the xylene solution to obtain purified aliphatic nitrile.

2,590,987
SLICING MACHINE AND METHOD
Roy M. Magnuson, San Jose, Calif., assignor to Basic Vegetable Products Co., Vacaville, Calif., a co-partnership composed of W. M. Hume and J. H. Hume
Original application April 7, 1945, Serial No. 587,124, now Patent No. 2,577,086, dated December 4, 1951. Divided and this application October 11, 1948, Serial No. 53,921
6 Claims. (Cl. 146—241)



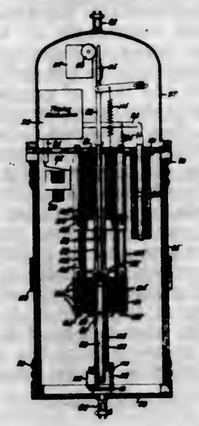
1. An onion slicer comprising a horizontally disposed disk supported from above for rotation about its central vertical axis, means above said disk for so rotating it, said disk being formed with a slot extending generally outwardly relative to said axis and provided with a cutting edge along one side of said slot projecting upwardly relative to the upper surface of said disk for slicing an onion half adapted to be supported on said surface with its cut face down, conveyor means below said disk for receiving slices adapted to be cut from said halves, feed means for delivering onion halves in single file onto the upper side of said disk with their cut faces down, means for guiding such halves to a position for cutting by said cutting edge, means for holding said halves during said cutting by said edge, said last mentioned means comprising elongated guide members spaced above said disk and from each other and extending generally convergently from said feed means.

2,590,988
POWER-TRANSMISSION BELT
Robert Martin, Spondon, near Derby, England, assignor to British Celanese Limited, a corporation of Great Britain
Application October 1, 1949, Serial No. 119,039
In Great Britain October 5, 1948
4 Claims. (Cl. 74—236)



1. A V belt comprising a series of short flexible belt sections having their adjacent pairs of ends bent in the same direction and, in association with each such pair, two bars extending across the width of the belt one on each side of said pair and a plurality of links each extending through registering holes in said pair and connecting said bars so that said bars loosely nip together the end of said pair, the width of each section towards the ends thereof being different from that of the middle so that the edges of said sections conform to the angle of a V pulley and constitute driving surfaces for engagement with said pulley.

2,590,989
CIRCUIT BREAKER
George Augustus Matthews, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York
Original application April 18, 1942, Serial No. 439,576, now Patent No. 2,443,260, dated June 15, 1948. Divided and this application April 22, 1948, Serial No. 22,620
2 Claims. (Cl. 200—147)



1. A circuit breaker comprising an axially movable rod carrying a contact, cooperating contact means including a power contact and an arcing contact, means including an operating coil to move said rod to separate the contact thereof from said contact means, insulating material surrounding said rod and defining a cylindrical chamber in which said rod reciprocates upon the opening and closing of the circuit breaker, said insulating material comprising a plurality of disks, each of said disks having a central opening of a diameter just sufficiently larger in diameter than said rod to provide mechanical clearance therefor, a pair of adjacent disks being spaced from each other and a cylindrical extension of insulating material on said rod and movable thereby into said chamber upon an opening movement of the rod, said insulating materials having the property of evolving an arc-extinguishing gas when contacted by an arc, said movable rod, said movable contact and said cylindrical insulating material having the same cross-sectional area and being in axial alignment with each other.

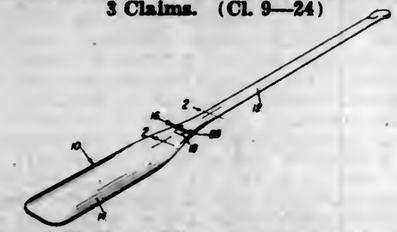
2,590,990
FISHING BAIT OR LURE
John Thomas McCormic, Indianapolis, Ind.
Application July 29, 1949, Serial No. 107,620
5 Claims. (Cl. 43—42.48)



1. A fishing bait or lure comprising a body having an elongated rearwardly tapered portion of circular section, and a forwardly tapered head portion having curved side surfaces merging into the rear portion, and forwardly converging transversely straight longitudinally convexedly outwardly curved top and bottom surfaces bisecting the curved side surfaces of the head portion, the

said top and bottom surfaces being of a length approximating the length of the forwardly tapered head portion, the front ends of said top and bottom surfaces being horizontally of substantial width and being vertically spaced providing a horizontally extending nose in the plane of the axial center of the body, said nose having a central recess therein and having parallel sides and a vertically rounded bottom, a line attaching member secured centrally at the bottom of the recess and in substantially the axial center of the body and spaced rearwardly of the end of the nose, said recess being of substantial width and longitudinal depth and height defining a vertical wall to facilitate the flow of a substantial quantity of water vertically therethrough on the opposite sides of a line attached to said attaching member, the portions of the top and bottom converging surfaces on the opposite sides of said recess forwardly of said attaching member extending horizontally a substantial distance from said recess to provide top and bottom surfaces transversely straight and of substantial area at the sides of the recess forwardly of the attaching member, a hook swingably secured to the under side of the body at the rear end of the bottom flattened surface, and a second hook swingably secured to the under side of the body adjacent but in spaced relation to the rear end thereof.

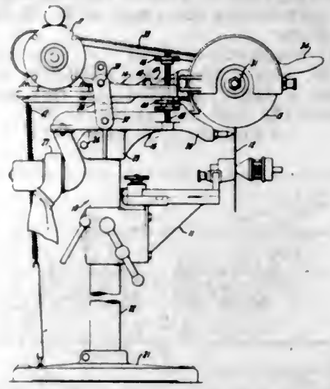
2,590,991
PADDLE
Otis S. McDonald, Green Cove Springs, Fla.
Application June 20, 1950, Serial No. 169,087
3 Claims. (Cl. 9—24)



1. A foldable paddle comprising a handle section and a blade section, said extension being coplanar with said handle section, said handle section having a tongue formed as an extension thereof at one end, a notch formed in the confronting end of said blade section, said tongue having at least one beveled surface and said notch having at least one beveled wall to seat said beveled surface on said tongue, a pivot pin secured to said tongue and said blade portion of the paddle thereby pivotally connecting said handle portion and said blade portion, and said tongue seating in said notch and frictionally locking therein to hold said handle portion and said blade portion in the operative condition.

2,590,992
SAW SHARPENER
James McEwan, San Jose, Calif.
Application October 10, 1947, Serial No. 779,001
4 Claims. (Cl. 76—40)

1. In a saw sharpener, a base, a saw positioner on the base, a sharpening device for engaging the teeth of a saw on said positioner, a horizontally disposed support bracket for said device and mounting means for said bracket providing for substantially straight-line movement of said sharpening device with respect to a saw on said positioner, said mounting means including a pair of spaced apart rigidly connected support links each pivoted respectively to said base and said bracket about aligned horizontal vertically spaced axes, and also including a horizontally disposed

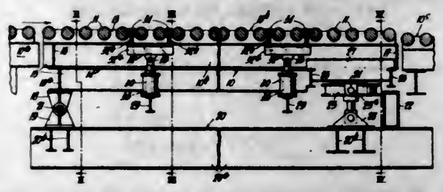


control link pivotally connected about respective parallel horizontal axes between said bracket and said base.

2,590,993
INTRODUCTION OF A DOUBLE BOND IN KETOSTEROIDS
Warren F. McGuckin and Edward C. Kendall, Rochester, Minn., assignors to Research Corporation, New York, N. Y., a corporation of New York
No Drawing. Application March 30, 1951, Serial No. 218,528
4 Claims. (Cl. 260—397.4)

1. Process for the introduction of a 4,5 double bond into 3-keto-4-bromosteroids which comprises reacting a 3-keto-4-bromosteroid with semicarbazide and treating the semicarbazone thereby formed with an aldehyde of the group consisting of benzaldehyde, hydroxybenzaldehydes and carboxybenzaldehydes to form the corresponding 3-keto-Δ^4-steroid.

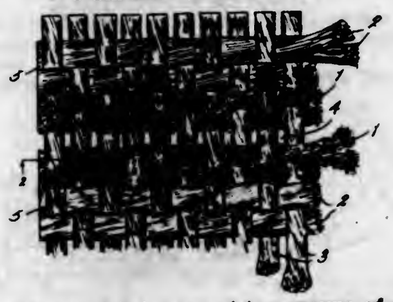
2,590,994
BRAKING APPARATUS FOR ROLLER CONVEYERS
Joseph McKay, Port Vue, Pa.
Application August 26, 1949, Serial No. 112,540
4 Claims. (Cl. 193—35)



1. Braking apparatus for a gravity roller conveyor made up of an elongated frame and a plurality of parallel rollers journaled transversely in said frame in spaced relation along the length thereof, said apparatus comprising an elongated block of wedge shape disposed with its narrower edge down and located between two adjacent rollers parallel thereto, the maximum width of the block being greater than the distance between said adjacent rollers at their nearest points, whereby the block is adapted frictionally to engage said adjacent rollers with its sides, the thickness of the block being such that the top thereof is below the plane tangent to the rollers

at the top thereof when the sides of the block are out of engagement with said adjacent rollers and means mounting said frame and block for movement of one of them in a generally vertical direction relative to the other whereby to cause the sides of the block to engage said adjacent rollers.

2,590,995
WOVEN FABRIC ADAPTED FOR USE AS UPHOLSTERY COVERS AND THE LIKE
Faylon M. Merrill, Grand Rapids, Mich., assignor to Sackner Products, Inc., a corporation of Michigan
Application September 10, 1948, Serial No. 48,611
6 Claims. (Cl. 139—420)



1. A woven fabric comprising groups of rayon warp strands and groups of cotton warp strands arranged in alternating relation, and woof strands of twisted paper interwoven with the warp strands, the woof strands being flattened and relatively stiff and resilient as compared to the warp strands, the rayon warp strands being uncolored and of flattened section, each strand of the rayon groups being woven as a warp strand separate from an adjacent rayon warp strand and coacting with the woof strands to provide lustrous checked stripes.

2,590,996
RELAY
Herman A. Miloche, Teaneck, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 21, 1947, Serial No. 787,348
5 Claims. (Cl. 200—104)

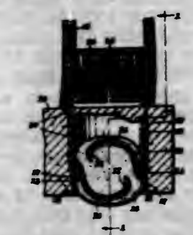


1. In a relay, a core, an energizing coil on said core, an armature rotatably mounted on said core and attractable thereto upon the energization of said coil, a card of insulating material connected to and rotatable by said armature, a base member, a plurality of contact springs circularly mounted in said base member and engaging apertures in the perimeter of said card, a second card of insulating material having apertures in the perimeter thereof to hold certain of said springs stationary in relation to certain other of said springs, and a third card of insulating material having apertures in the perimeter thereof to pretension certain of said springs.

2,590,997
METHOD FOR SEPARATING COLLOIDALLY DISPERSED IRON PARTICLES FROM ORGANIC LIQUIDS
Edward Mitchell, Pittsburgh, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application August 1, 1949, Serial No. 108,052
12 Claims. (Cl. 252—326)

1. The process of coagulating a stable suspension of colloidal iron dispersed in an organic liquid which comprises adding a low molecular weight, water soluble, aliphatic α-hydroxy carboxylic acid to said organic liquid containing colloidal iron to coagulate the colloidal iron and separating the coagulated colloidal iron from the organic liquid, said water soluble aliphatic α-hydroxy carboxylic acid being added in an amount and a concentration sufficient to rapidly coagulate the colloidal iron and said organic liquid being non-reactive with respect to the colloidal iron and the low molecular weight, water soluble aliphatic α-hydroxy carboxylic acid.

2,590,998
DAMPER CONSTRUCTION
Erving B. Morgan, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application November 30, 1949, Serial No. 130,183
9 Claims. (Cl. 98—41)

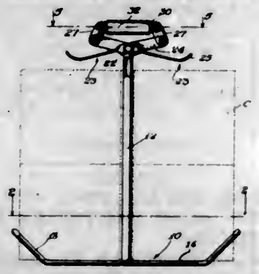


8. In a damper construction for a flue: a sleeve in the flue; a damper comprising a unitary plate having circuitous slots therethrough forming diametrically opposed laterally springable arms; and cooperating pin and bearing connections on said sleeve and said arms, said arms being springable inwardly to permit insertion of the damper in the sleeve and being thereafter springable outwardly to rotatably engage said pin and bearing connections.

2,590,999
CARRIER FOR CARTONS AND THE LIKE
Vandel L. Nielsen, Greenville, Mich.
Application January 17, 1949, Serial No. 71,280
9 Claims. (Cl. 224—45)

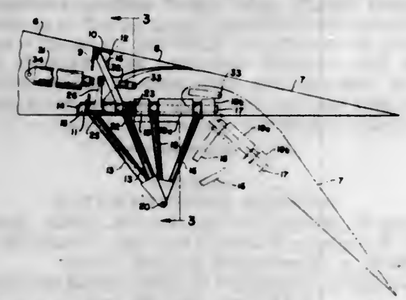
1. A carrier of the class described comprising a vertical member, a cradle carried at the lower

portion thereof, and toggle lever means connected pivotally to the upper portion of said vertical member for manually carrying articles supported



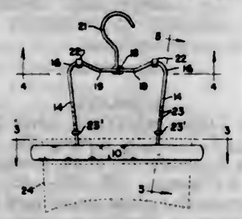
on said cradle, said toggle lever means comprising members engageable with downward pressure on said articles when upward force is applied to said means.

2,591,000
RETRACTABLE FLAP SUPPORT
Edward A. O'Brien, Redondo Beach, Calif., assignor to North American Aviation, Inc.
Application September 14, 1949, Serial No. 115,719
16 Claims. (Cl. 244—42)



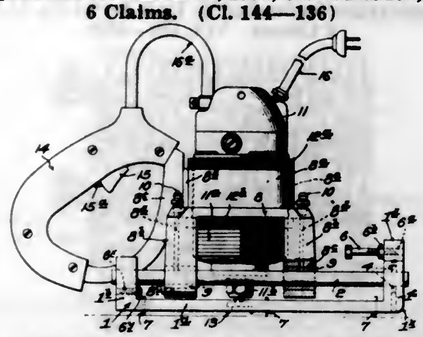
1. In aircraft including a wing and a flap, retractable hinge means for the pivotal support of said flap from said wing including a pair of relatively separable members each forming a triangular frame having aligned base portions separately pivoted upon a common axis upon said wing and said flap, a flap hinge carried by converging portions of said members forming an apex of said triangular frames, means for rotating said frames about the axis of said aligned base portions for the extension of said flap hinge and means for rotating said flap into an extended position about the axis of said flap hinge by the separation of said frame base portions.

2,591,001
GARMENT HANGER
Werner G. Olpe, Jamaica, N. Y.
Application February 24, 1950, Serial No. 145,957
5 Claims. (Cl. 223—96)



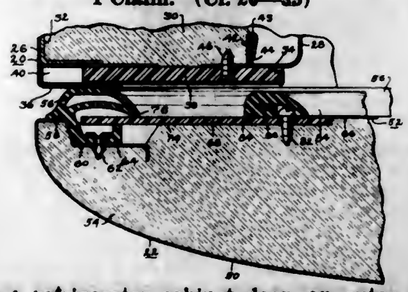
1. In a garment hanger, a pair of bars, a pair of spring frames each comprising a pair of vertical legs secured at their lower ends to rise from different ones of said bars, the legs of each frame having arms thereon extending inwardly with respect to the longitudinally outward ends of said bars, bridging portions extending between and connecting the inward ends of the arms of each frame, and a hanging hook having an eye on its lower end loosely circumposed about said bridging portions.

2,591,002
ROUTER
Ettore Pedron, Eugene, Oreg.
Application November 24, 1950, Serial No. 197,467
6 Claims. (Cl. 144—136)



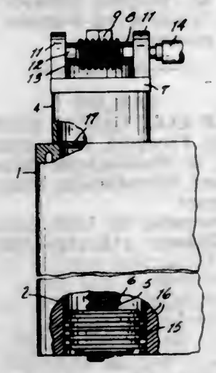
1. A motor driven hand tool for routing out defects in the outer layers of plywood sheets comprising a bed plate having a longitudinal slot; a frame having an upper portion with a vertical bore therethrough and having a lower portion depending therefrom; guide rods on the bed plate parallel to said slot and engaging complementary bearing surfaces on said lower portion to provide a precision sliding engagement between said frame and said bed plate; a motor fixed in said bore with its shaft extending downwardly into said slot; a cutting tool fixed on said shaft and extending downwardly through said slot to engage the plywood sheet; and a means for anchoring said plate on the plywood surface, said means engaging the plywood before the cutting tool as the device is lowered thereon.

2,591,003
REFRIGERATOR DOOR
Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application December 12, 1947, Serial No. 791,354
1 Claim. (Cl. 20—35)



In a refrigerator cabinet door, an outer door casing having an inturned flange portion, a door inner panel having an outer peripheral edge spaced inwardly from said casing flange portion, a heat breaker panel extending between and overlapping edge portions of said casing flange portion and of said door inner panel, means including a cabinet seal holding said heat breaker panel adjacent the outer periphery thereof to said door casing flange portion, an offset flange on the outer peripheral edge of said door inner panel spaced from and overlying the outer surface of said heat breaker panel, a fastener securing said door inner panel and said heat breaker panel together adjacent said offset flange, and a sealing member engaging the outer surface of said heat breaker panel embedding said offset flange and having a lip overlying and concealing said fastener.

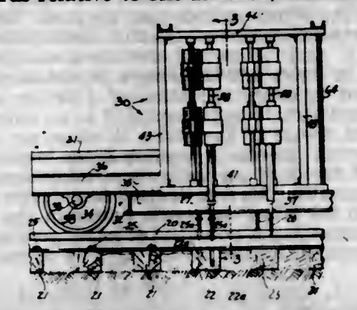
2,591,004
CYLINDER BROACH
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application January 6, 1947, Serial No. 720,462
3 Claims. (Cl. 90—33)



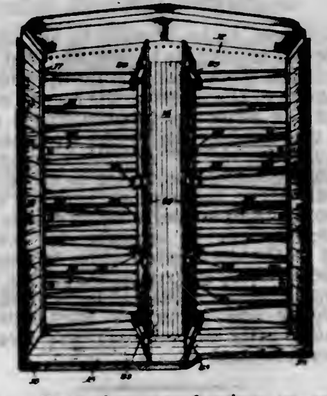
1. A tool for surfacing a cylinder bore of an engine comprising a chambered support member adapted to seat against an engine around a cylinder bore and having an inwardly facing recess therein of a diameter exceeding that of the cylinder bore, a guide on said support adapted to be positioned centrally through the cylinder bore, a centering disk slidable on said guide and engageable within the bore adjacent the support to center the guide therein, and a broach translatable along said guide and into said recess in said support.

2,591,005
MACHINE FOR DRIVING RAIL FASTENING SCREWS IN RAILROAD TIES
William E. Piper, Salt Lake City, Utah
Application December 4, 1946, Serial No. 713,994
3 Claims. (Cl. 144—3)

1. In a railroad work car for driving rail-holding screw spikes, a substantially rectangular, substantially centrally-disposed manhole having a width comprehending the rail span and a length at least sufficient to comprehend two successive ties; transversely spaced beams within and extending longitudinally of said manhole in positions immediately above the respective rails; a rectangular frame resting on said beams and rising vertically from said manhole; forward and rearward pairs of longitudinally spaced standards mounted for respectively independent longitudinal sliding movement in said frame at opposite sides thereof; pairs of rotary tools eccentrically mounted for vertical sliding movement on respective pairs of standards, the component tools of each pair extending at opposite sides of the beam above which they are mounted; means for adjustably moving the respective pairs of standards relative to one another; means for rotating the respective tools; and means for lowering and raising the respective tools on said standards.



2,591,006
RAILWAY CAR END LINING ARRANGEMENT
Charles R. Radey, Michigan City, Ind., assignor to Pullman-Standard Car Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application October 6, 1947, Serial No. 782,048
24 Claims. (Cl. 105—423)

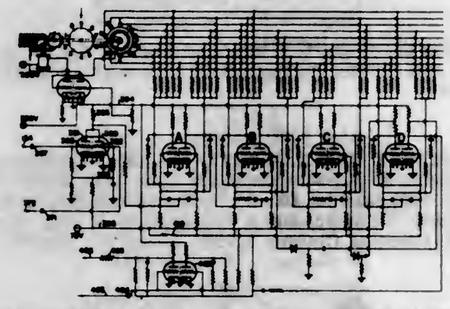


1. In a railway box car having an end wall, an inside lining for the end wall comprising a fixed central portion secured to the end wall, relatively short furring strips behind said fixed central portion of the end lining, relatively movable side portions of the end lining disposed at opposite sides of said central portion, said movable lining portions each being of substantially less than half the width of said end wall and said fixed lining portion occupying the space between the movable portions, furring strips secured to said relatively movable lining portions, and hinged members connecting said furring strips on the movable portions with said short furring strips, said short furring strips being secured to the end wall to support swingingly said movable side portions therefrom.

2,591,007
ELECTRONIC ACCOUNTING MACHINE
Carl F. Rench, Troy, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application December 17, 1949, Serial No. 133,540
5 Claims. (Cl. 250—27)

1. In combination, four electronic devices, each operable alternately to "on" and to "off" condi-

tion in response to impulses impressed thereon, and including means to produce potential changes each time the device changes from either condition to the other, said devices by their "on" and "off" conditions, in combination, representing the digits "1" and "9" to "0"; circuits connecting the devices in series and enabling a potential change, produced by every operation of a device to said "off" condition, to be transmitted as an impulse to the next device of the series to cause an operation thereof; means to impress input impulses on the first device of the series; a unidirectional circuit connecting the fourth electronic device in the series to the third electronic device in the series for transmitting a potential change, produced by the fourth electronic device as it is operated to



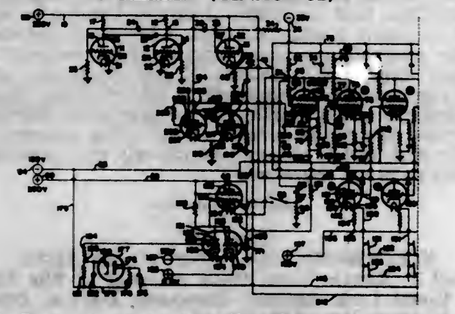
"on" condition, as an impulse to the third electronic device to cause it to operate; and a second unidirectional circuit connecting the fourth electronic device of the series to the second electronic device of the series for transmitting a potential change, produced by the fourth electronic device as it is operated to "off" condition, as an impulse to the second electronic device to cause it to operate; said series connections and two unidirectional connections cooperating to enable the four electronic devices to operate to accumulate amounts in the decimal notation by causing the electronic devices, in combinations, to progressively represent the digits "1" to "9" and "0" and to return to any particular digit-representing combination after ten impulses have been applied to the input means.

2,591,008

ELECTRONIC ACCUMULATOR

Carl F. Rench, Troy, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application January 7, 1950, Serial No. 137,311
7 Claims. (Cl. 235—61)



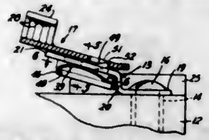
1. In an apparatus of the class described, the combination of a multi-denominational order accumulator including denominational accumulating elements and tens transfer means coupling adjacent accumulating elements, the transfer means between each pair of adjacent elements including a device operated from a normal condition by its related lower order element to indicate a tens transfer requirement each time the lower order element exceeds its capacity and operable to cause an entry of a unit in the next higher element when the device is returned to normal condition; means normally operating to supply a succession of restoring impulses to all the transfer means to restore any operated device of the transfer means to its normal condition to cause tens transfer and transfer-on-transfer entries to be made; means to enter selected digits into the accumulator; and means operated by the entering means for disabling the normally operating means during amount-entering operations to prevent restoring impulses from being supplied to the tens transfer means to prevent transfer entries from occurring during amount-entering operations; said normally operating means being operable between amount entries to cause one or more tens transfer entries to occur in succession, as required, between amount entries, whereby transfer-on-transfer entries may be made in the accumulator.

2,591,009

SEPARABLE ELECTRICAL CONNECTOR

Arthur L. Riche, Freeport, Ill., assignor, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 20, 1948, Serial No. 66,195
4 Claims. (Cl. 173—363)



1. In a separable connector, the combination of a female member of electrical conductive material comprising a body, a portion at one end of the body for attachment to an electric conductor and a generally rectangular shaped opening at the opposite end of the body, the corners defining said rectangular opening adjacent the body being slightly rounded, a male member of electrical conductive material having an attachment portion shaped for connecting the male member in an electric circuit and a prong connected to said attachment portion shaped to be receivable in said generally rectangular opening and having spaced edges shaped to engage the female member at positions on said rounded corners to align the female and male members when the parts are telescoped together, and spring means acting between said female member and said prong portion to maintain the parts in electrical conductive relation, the spring means acting in a direction to force said spaced edges of the prong portion into engagement with the rounded corners of the opening upon movement of the parts together.

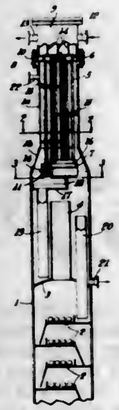
2,591,010

DISTILLATION COLUMN

Jennings F. Rollins, Westfield, N. J., and Maurice E. Brooks, Elmhurst, N. Y., assignors to The Lummus Company, New York, N. Y., a corporation of Delaware

Application November 10, 1950, Serial No. 194,968
5 Claims. (Cl. 202—161)

1. In a distillation column, apparatus for condensing vapors rising within the column, comprising a bundle of vertical condenser tubes within the upper portion of the column and including a tube sheet at the lower end of the tubes, channel means for circulating cooling fluid through said tubes, said tube sheet having an upper surface to receive the condensate from the tubes, a curb projecting upwardly from said surface and extending around the lower portion of the tube bundle, said curb being open at one side only of the tube sheet for discharge of the condensate



from said surface, and a condensate collecting tray within the column below said tube sheet and in position to catch said discharge, said tray and said tube sheet being correlated with the column to afford space therein for ascent of the vapors to the tubes past the tray and the opposite side of the tube sheet and thereby enable the vapors to by-pass the condensate falling from said surface to the tray and thus prevent entrainment of the condensate.

2,591,011

COMPENSATING DIFFERENTIAL CONTROL MECHANISM

Erwin K. Rose, Santa Monica, and Fred R. Prill, Inglewood, Calif., assignors to North American Aviation, Inc.

Application November 15, 1949, Serial No. 127,422
8 Claims. (Cl. 74—501.5)



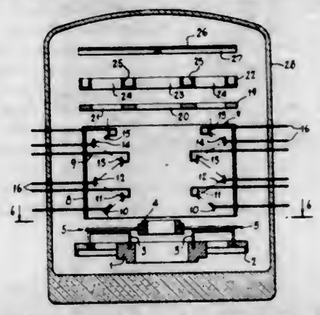
1. In a control system, means for compensating for linear changes in a control cable comprising a rotatable element having a central axis of rotation, said rotatable element having a peripheral edge engaged by a terminal of said control cable, an actuating link pivotally connected to said rotatable element for independent rotation about a point offset from the axis of rotation of said rotatable element and resilient means including a torsion spring in engagement with said rotatable element opposing movement of said control cable and rotation of said rotatable element.

2,591,012

ELECTRON TUBE OF THE HIGH-FREQUENCY AND HIGH-POWER TYPE

Winfield W. Salisbury, Cedar Rapids, Iowa, assignor to Collins Radio Company, Cedar Rapids, Iowa, a corporation of Iowa

Application September 17, 1949, Serial No. 116,365
6 Claims. (Cl. 313—105)
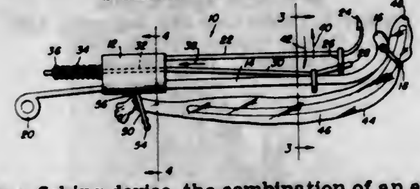


1. An electron tube of the kind described, comprising an electron-emitting cathode having a plurality of discrete emitting sections, a control grid having a like number of discrete sections each disposed closely adjacent a corresponding cathode section, an electron multiplier having a plurality of discrete sections one for each of said grid sections, high voltage accelerating means for said secondary electrons, and an anode for the accelerated secondary electrons.

2,591,013

FISHHOOK

Charles T. Sampson, Wilberforce, Ohio

Application November 12, 1948, Serial No. 59,563
1 Claim. (Cl. 43—41)



In a fishing device, the combination of an elongated shank having a substantially straight end portion and a curved end portion, a block secured to the straight end portion of said shank for connecting the same to a fish hook, a single ring swingably mounted on the curved end portion of the shank, a second ring rigidly secured at the top thereof to said block, a hinge member at the bottom of said second ring, a third ring carried by said hinge member and swingable into the second ring to frictionally engage the same, and an elongated tubular bait receptacle of transparent material extending along said shank and having an open front end portion frictionally clamped between and closed by the second and third rings, said receptacle having a closed rear end portion extending through the first mentioned ring and provided with an aperture.

2,591,014

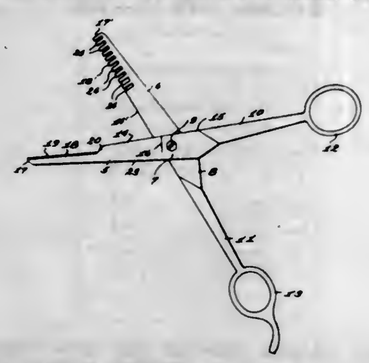
COMBINED THINNING AND SHAPING SCISSORS

William D. Sansom, Detroit, Mich.

Application September 12, 1950, Serial No. 184,441
2 Claims. (Cl. 30—195)

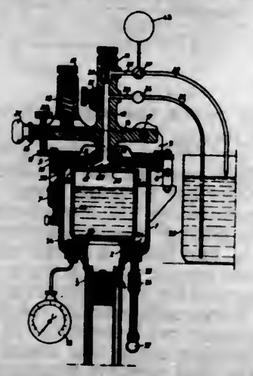
1. In a combined hair-shaping and thinning shears, a pair of blades having crossed longitudi-

nally inward end portions formed with handles, pivot means traversing said inward end portions and securing said blades together in side-by-side shearing relation, said blades having confronting cutting edges extending longitudinally therealong, each of said cutting edges being divided intermediate the ends thereof to define a shaping



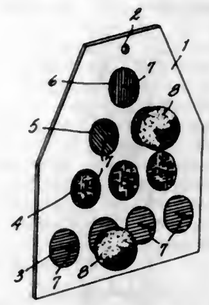
edge and a thinning edge, the thinning edge on one of said blades being plane and laterally offset with respect to the longitudinal axis of the shaping edge thereof, and the thinning edge on the other blade having spaced teeth therealong arranged to adapt a shearing relation to the thinning edge on said one blade when the blades are closed together.

2,591,015
APPARATUS FOR VACUUM SEALING OF CONTAINERS
Paul Schoemann, Toulon-Claret, France
Application October 20, 1947, Serial No. 780,862
In France April 8, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires April 8, 1966
3 Claims. (Cl. 226—82)



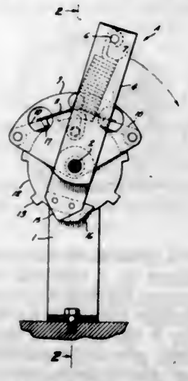
2. Apparatus for extracting air from a space inside a suction cup provided on an object to be secured to a wall, comprising a jacket to enclose the object having an opening and a cover with a resilient wall to be hermetically sealed on said opening, means supported in said resilient wall having an internal extension, means exerting an elastic adjustable thrust to elastically protrude said extension against the object for applying it against the wall to which it is to be secured, means to adjustably limit the protrusion, a resilient annular member adapted to form a suction cup along the free edge of said gasket, means for extracting air from said gasket suction cup, and means adapted for making a vacuum in said gasket and to restore the atmospheric pressure in said gasket.

2,591,016
IMPALING PIN TARGET
Leonard W. Schoenherr, Ludington, Mich.
Application October 15, 1948, Serial No. 54,781
2 Claims. (Cl. 273—104)



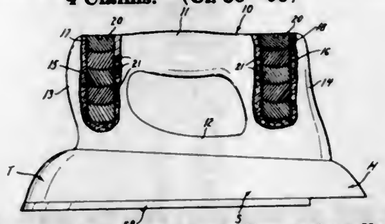
1. Game apparatus comprising, a panel provided with a field, impaling pins having relatively sharp pointed outer ends and projecting from said panel at spaced points on said field and triangularly arranged in rows of decreasing number of pins, color indicia around the base of said pins, said indicia being of different color for different rows of pins, and a plurality of sets of playing balls of relatively light cellular material adapted to be thrown against and piercingly impaled on said pins, said balls being of smaller diameter than the spacing of said pins on said field whereby a single ball cannot be piercingly impaled on more than one pin at a time, the individual balls of each set being colored differently to correspond to at least part of the color indicia at the bases of said rows of pins.

2,591,017
OPERATING MECHANISM FOR MULTIPLE POINT SWITCHES
William O. Schults, Marshfield, Wis., assignor to McGraw Electric Company, a corporation of Delaware
Application April 27, 1949, Serial No. 89,917
2 Claims. (Cl. 74—565)



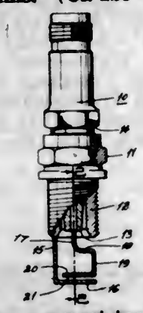
1. Operating mechanism for a multiple point switch comprising a driving shaft and a driven shaft arranged in alignment, a fixed indexing plate having spaced stops arranged in a circle, a latch support rigid with said driven shaft, latch means spring urged and normally selectively coacting with said stops to prevent motion of said latch support, a trigger frame rigid with said driving shaft, driving spring means interposed between said trigger frame and said latch support and arranged to bias said latch support towards motion when said driving shaft is rotated, and tripping means carried by said trigger frame for tripping said latch means, said tripping means being mounted on the opposite side of said driving shaft from said driving spring means and said driving spring means being normally positioned on the same side of said driving shaft as said latch means and being movable to the opposite side of said driving shaft when said latch means are tripped.

2,591,018
VARIABLE WEIGHT PROVISION FOR PRESSING IRONS
Meyer A. Simon, Clayton, Mo.
Application May 3, 1948, Serial No. 24,796
4 Claims. (Cl. 38—98)



1. In a pressing iron including a handle and shell as major elements thereof, means forming a pair of substantially vertical chambers located, respectively, near opposite ends and within the normal confines of one of the major elements of the iron, a plurality of weight elements disposable in selected numbers in the chambers, for varying the weight and balance of the iron and closure elements for the respective chambers adapted to retain the weight elements therein.

2,591,019
SPARK PLUG
Richard M. Simon, Ossining, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application April 29, 1949, Serial No. 90,369
3 Claims. (Cl. 123—169)

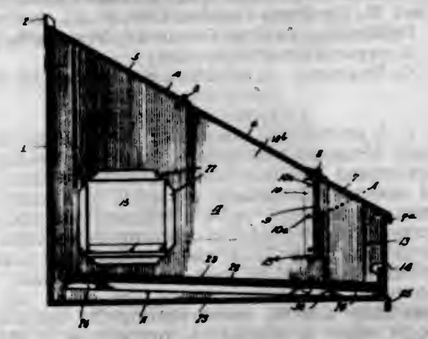


1. A spark plug comprising a plug body, a grounded electrode having a vertical leg fastened at its upper end to a lower peripheral portion of said plug body, said vertical leg being connected at its lower end to a horizontal sparking member extending inwardly substantially along a diameter of the plug body and below the bottom of the latter, an axial insulated electrode depending from said plug body and connected at its lower end to a second horizontal sparking member extending inwardly substantially along said diameter from adjacent the free end of said first sparking member in closely spaced and parallel relationship with said first sparking member, the opposed parallel faces of said sparking members being flat and substantially rectangular in shape to provide a spark gap therebetween at least ½ inch in length and at least 3/16 inch in width, said electrodes being freely exposed below said plug body so as to locate said spark gap within the active swirling gaseous space of the combustion chamber when said plug is mounted non-axially in an engine cylinder having swirling air in the combustion chamber thereof, and with the length of said sparking members lying generally parallel to the direction of movement of the swirling air therein whereby said long and wide spark gap provides a low air velocity zone in the swirling air to prevent blowout of the spark by said swirling air.

2,591,020
ALLYLATED TRIMETHYLENE TRISULFONES
Allen E. Smith, Oxford, Conn., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
No Drawing. Application August 3, 1950, Serial No. 177,562
10 Claims. (Cl. 260—45.4)

4. As a new composition of matter, a polymer of a material selected from the group consisting of pentaallyl-1,3,5-trimethylene trisulfone, hexaallyl-1,3,5-trimethylene trisulfone, and mixtures thereof.

2,591,021
HEN'S NEST
Helmer E. Smith, Sheldon, Iowa
Application July 3, 1950, Serial No. 171,877
5 Claims. (Cl. 119—48)

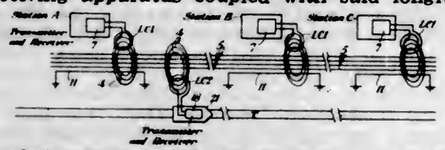


1. In a hen's nest of the class described, the combination with a housing, said housing provided with guides fastened to the inner faces of its sides, a cover including a section provided with a depending portion adapted to engage said guides, and said section provided with means for engaging the bottom of said guides for locking said section in a closed position upon said housing.

2,591,022
INDUCTIVE TRAIN COMMUNICATION SYSTEM
Andrew J. Sorensen, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application December 13, 1947, Serial No. 791,504
4 Claims. (Cl. 179—82)

1. In an inductive train communication system, in combination, a communication channel

comprising a wayside longitudinal circuit, a plurality of wayside stations disposed along said longitudinal circuit, each of said wayside stations being equipped with inductive transmitting and receiving apparatus coupled with said longitu-



dinal circuit, and artificial attenuating means for reducing the interference between such stations comprising loops located at spaced intervals along said longitudinal circuit and inductively coupled thereto to thereby progressively attenuate the energy flowing in said longitudinal circuit.

2,591,023
MUSICAL INSTRUMENT
Hugh M. Stephenson, Fort Wayne, Ind.
Application August 15, 1947, Serial No. 768,912
21 Claims. (Cl. 84—377)



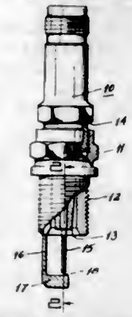
1. A harmonica including a reed supporting structure, and means including a plurality of blow and draw reeds in a preselected linear reed note arrangement in said supporting structure in fixed relation thereto providing for rendition of a predetermined melody by linearly progressively blowing and linearly progressively drawing on a series of said reeds.

2,591,024
CARBON BLACK PELLETING PROCESS
Carl W. Sweitzer, Garden City, N. Y., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware
No Drawing. Application September 16, 1950, Serial No. 185,335
4 Claims. (Cl. 23—314)

1. A process for increasing the strength of furnace black pellets which comprises heating the preformed pellets containing not less than 0.1% of acetone-extractable material in a static, unrenewed atmosphere to a temperature above the softening point of the acetone-extractable material but below that where substantial coking is effected and below that where the rubber compounding characteristics of the black are substantially altered, discontinuing the heating at a point where a substantial proportion of the acetone-extractable material initially present in the black remains therein and immediately thereafter cooling the pellets in a static atmosphere to a temperature below that where oxidation of the black results and below that where substantial loss in acetone-extractable material would result, so as to retain in the black a substantial proportion of acetone-extractable material initially present therein.

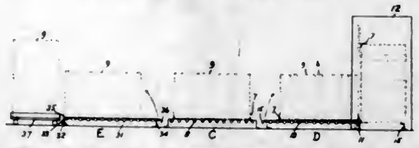
2,591,025
COMBINATION SPARK-GLOW PLUG
William T. Tierney, Jr., Hopewell Junction, and Charles W. Davis, Jr., Fishkill, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application April 14, 1949, Serial No. 87,548
2 Claims. (Cl. 123—169)

1. A combination spark-glow plug having a plug body, an axial insulated wire electrode depending below said plug body, an outer grounded wire electrode attached at its upper end to a lower peripheral portion of said plug body and depending below said plug body slightly farther than said axial electrode and then extending inwardly at substantially right angles to underlie the lower end of said axial electrode and spaced therefrom to form a spark gap therebetween, substantially the entire inwardly extending part of said grounded electrode being materially enlarged in both width and thickness and formed of solid metal to provide a heat retaining glow portion having a cross-sectional area at least three times that of the depending wire part of said grounded electrode, said depending wire portion constituting the sole connection between said enlarged glow portion of the grounded elec-



trode and said plug body, with the length of said depending wire portion being large in relation to the cross-sectional area thereof to thereby restrict the heat conducting path from said enlarged glow portion to the said plug body, and the volume of metal and the volume to surface ratio of said glow portion being large such that said glow portion retains heat of igniting effectiveness between successive cycles capable of igniting a combustible fuel vapor-air mixture without the aid of a spark, both said electrodes being freely exposed below said plug body and maintained at all times in spaced relation to each other to maintain an air gap therebetween for the jumping of a spark on each cycle in addition to the maintenance of said glow portion at igniting effectiveness between successive cycles.

2,591,026
METHOD AND APPARATUS FOR WETTING BALED TOBACCO
Rush D. Touton, Wynnewood, Pa., assignor to Wurton Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 30, 1944, Serial No. 570,667
6 Claims. (Cl. 131—136)

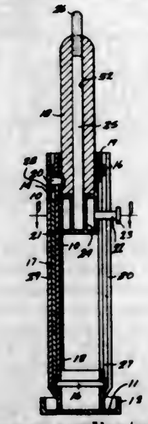


1. The method of wetting hands of tobacco which includes removing the top from a case of tobacco hands, placing ties over the exposed tobacco hands, placing a support over the exposed tobacco hands, rotating the case through 180°, removing the case from the tobacco hands and securing the ties to form a bale, tipping the bale on end, flooding the bale with water, and inverting the bale to permit drainage.

3. Apparatus which comprises means for the wetting of baled tobacco hands including a

chamber, means for introducing water into the chamber under pressure through the bottom of the chamber, means for withdrawing water from the chamber through its bottom, a support for the baled tobacco hands pivoted at one end within the chamber and swingable from a horizontal position without the chamber into a vertical position within the chamber.

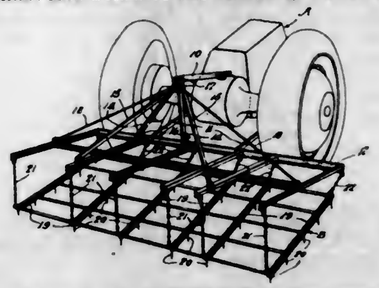
2,591,027
LIP ROUGE APPLICATOR
Angel Nunez Turnes, Bronx, N. Y.
Application September 30, 1948, Serial No. 51,873
1 Claim. (Cl. 15—131)



In a lip rouge applicator, an open-ended case having an arcuate slot therein and provided with a transversely disposed base, an annular flange projecting from said base, a bullet-shaped lipstick mounted for movement into and out of the open end of said case and having a longitudinally extending bore, a carrier for receiving therein said lipstick, a lug projecting from said carrier and through the slot in said case, a cylindrical holder arranged below said carrier and slidably mounted in said case, a rod projecting from said holder and having a knob thereon, a collar arranged in concentric relation within said holder, a stem having its lower seated in said collar, a brush arranged on the upper end of said stem and mounted for sliding movement through the bore in said lipstick, there being a longitudinally extending semicylindrical cutout in said case, said case being provided with a slit extending from the open end thereof, a pair of spaced parallel transverse protuberances projecting from said case, a sleeve extending over said case and engaging said protuberances and provided with a first longitudinally extending slot for receiving said rod, there being a second slot in said sleeve for slidably receiving said lug, said second slot extending parallel to said first slot for a portion of its length and then extending arcuately, and a tubular shell arranged in surrounding relation with respect to said sleeve and provided with a longitudinally extending slot for receiving the rod projecting from said holder.

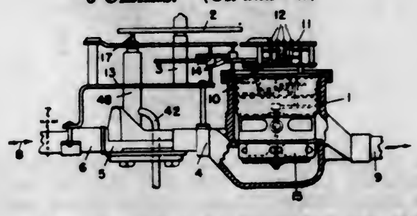
2,591,028
HARROW ATTACHMENT FOR TRACTORS
Ray Udy, Lapwai, Idaho
Application April 19, 1948, Serial No. 21,963
1 Claim. (Cl. 55—88)

An attachment for a power draft unit having a lift for a ground working element, the lift having upper and lower arms, comprising a vertically swingable carrying frame pivotally connected to the lift, said frame comprising a transverse beam having a plurality of longitudinal arms extending therefrom, said beam being pivotally connected to the lower lift arms, certain of said longitudinal arms being pivotally connected to the upper arms of said lift by means of a triangular bracing structure, coupling means pivotally connected to the transverse beam of the carrying frame and to



the implement, spaced chain lengths suspending the implement from the longitudinal arms, said coupling means comprising chain lengths, each throughout its extent being inherently freely flexible in itself and connected at an angle relative to the plane of the carrying frame to the transverse beam of the latter and the implement, respectively, and said spaced chain lengths, each throughout its extent being inherently freely flexible in itself and adjustably and detachably connected to said frame and implement, respectively.

2,591,029
COIN WATER METER
Frederik van der Pias, Bandoeng, Netherlands
Application December 23, 1947, Serial No. 793,363
In the Netherlands June 10, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires June 10, 1961
6 Claims. (Cl. 222—2)

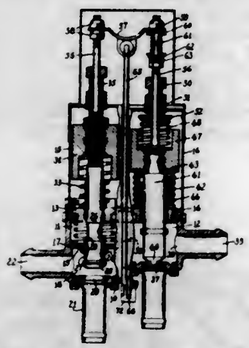


1. A coin controlled water meter comprising a measuring device, a transmission actuated by said water meter, a membrane valve, a control valve for said membrane valve, a control rod for said control valve, a coin control for said rod, an arm, a pawl and a second arm operated by said transmission and controlling said rod by means of said first arm and said pawl.

2,591,030
SOLENOID-OPERATED VALVE STRUCTURE
Irving R. Versoy, New Haven, Conn., assignor to The Berger Brothers Company, New Haven, Conn., a corporation of Connecticut
Application October 9, 1945, Serial No. 621,311
5 Claims. (Cl. 137—139)

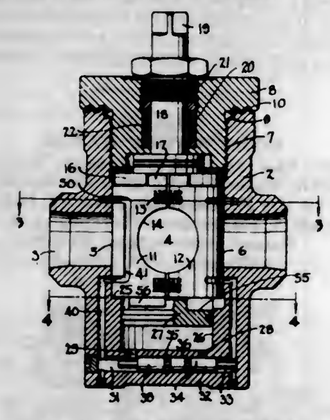
1. In a valve device, a casing having a port and a valve to control said port, means normally urging said valve to a predetermined open position

with respect to the port, a weighted member supported by the valve whereby it may be closed



under the action of centrifugal force, and additional means to close said valve at will, said means being electrically controlled.

2,591,031
LUBRICATED PLUG VALVE
Alexander S. Volpin and Jopling P. Smith, Houston, Tex.
Application June 19, 1945, Serial No. 600,322
10 Claims. (Cl. 251—93)

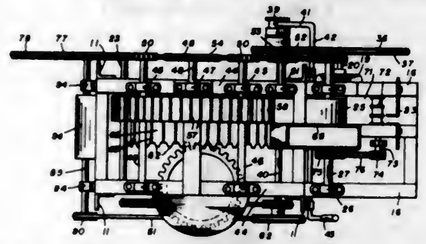


4. A two-way lubricated plug valve including a housing and plug rotatable therein, opposed flow ports covered by said plug in closed position, means to distribute lubricant sealing material about each flow port, a reservoir in said housing, an outlet to each of said means from said reservoir, an injection inlet to each of said means for the introduction of sealing material and a member movable in said reservoir by the pressure of sealing material injected in the downstream means of the valve, said member barring outlet of sealing material to the high pressure side.

2,591,032
METHODS FOR GROWING ETHYLENEDIAMINE TARTRATE CRYSTALS
Albert C. Walker, Short Hills, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application August 11, 1950, Serial No. 178,983
7 Claims. (Cl. 260—501)

1. A process comprising growing ethylenediamine tartrate crystals from seeds in a mother liquor supersaturated with ethylenediamine tartrate, which solution is maintained alkaline at a pH of from 6.5 to 8 by the presence of ammonium hydroxide and at a temperature of from about 40.6° C. to 50° C.

2,591,033
APPARATUS FOR FORMING CANDY BARS AND INSERTING STICKS THEREIN
Grady S. Washburn, Macon, Ga.
Application August 4, 1947, Serial No. 765,990
5 Claims. (Cl. 107—8)

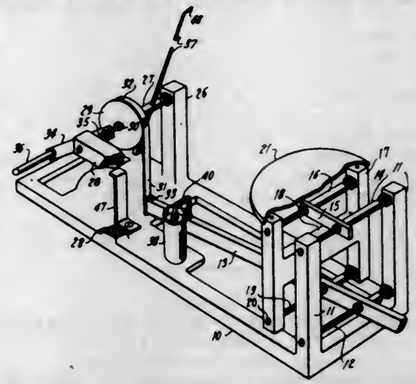


1. A candy bar forming and stick inserting machine comprising a conveyor including an endless web having horizontally disposed upper and lower flights, a guide shoe having a hump and downwardly inclined faces extending from opposite sides of said hump, said hump and faces bearing against the undersurface of said upper flight, an endless belt disposed above the upper flight of said conveyor and including spaced horizontally disposed upper and lower flights, transversely extending, longitudinally spaced cutting knives carried by said belt, the cutting edges of the knives carried by the lower flight of the belt lying in a plane parallel to the lower flight of said conveyor and spaced a short distance above the upper flight of said conveyor, said knives adapted to engage and cut at the hump a viscous mass of candy advanced on the upper flight of said conveyor, a stick feed wheel disposed on one side of the belt and conveyor and having an axis of rotation parallel to the axes of rotation of both the belt and conveyor, said wheel including an annular rim having circumferentially spaced stick retaining grooves, said annular rim being located in such a manner that a portion thereof is disposed between the lower flight of said belt and the upper flight of said conveyor above said hump, means drivingly interconnecting said belt and said wheel, a stick ejecting wheel having an axis of rotation perpendicular to the axis of rotation of said stick feed wheel, and means drivingly interconnecting said two wheels.

2,591,034
MIXING SCALE
Bert Wilson, Dallas, Tex., assignor to Andrew Brown Company, Los Angeles, Calif., a corporation of California
Application October 28, 1948, Serial No. 56,981
4 Claims. (Cl. 265—61)

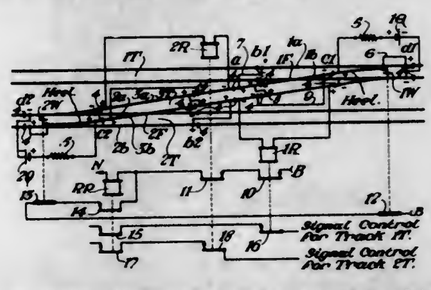
2. In a mixing scale, the combination of a base having an upright housing thereon, a chart visible at the top of the housing having a mixing scale thereon, a beam pivoted in the case and having one end projecting from said case, the case having an arcuate slot in its front side, a rotatable member in the case, having a forwardly directed pin movable in the arcuate slot of the case, a stop on the base in the path of the arm, a removable load weight mounted on said pin exteriorly of the case, whereby the arm is swung

down into engagement with the stop, a platform above the case having pivoted connection with the beam, and an indicator rod carried by the



rotatable member extending up through the housing and having its upper end opposite the first indication of the scale of said chart when the arm is in engagement with the stop.

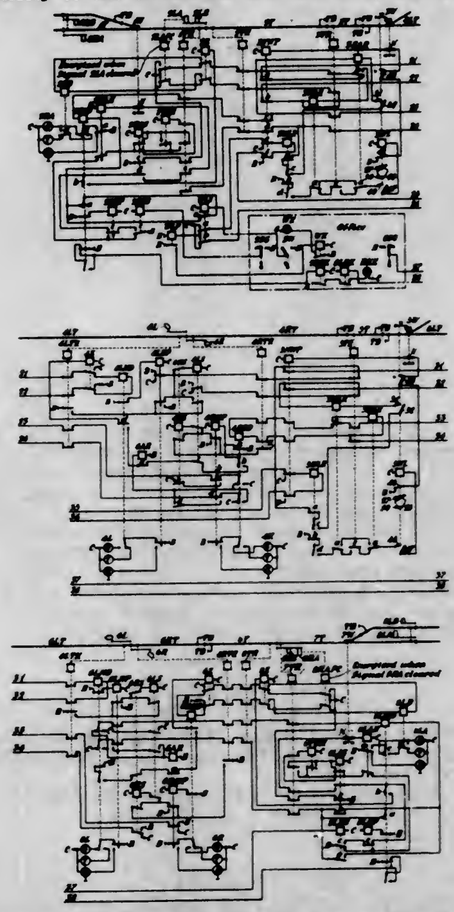
2,591,035
TRAFFIC PROTECTION APPARATUS
Henry S. Young, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application July 30, 1946, Serial No. 687,145
9 Claims. (Cl. 246—114)



4. In protection apparatus for a switch which connects an auxiliary track with a main track, the combination comprising, a section of said main track including said switch, an insulated joint adjacent the switch heel in the switch lead to the frog side of said auxiliary track, a track circuit passing from one terminal of a suitable source of current to said switch lead adjacent said insulated joint and thence along said switch lead to the point of said switch, a jumper connection from said switch point to the adjacent rail of said main track section, a connection from the other terminal of said source of current to the opposite rail of said main track section, and a track relay energized from said track circuit.

2,591,036
BLOCK INDICATOR FOR CENTRALIZED TRAFFIC CONTROL SYSTEMS
Henry S. Young, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application September 24, 1947, Serial No. 775,842
3 Claims. (Cl. 246—3)

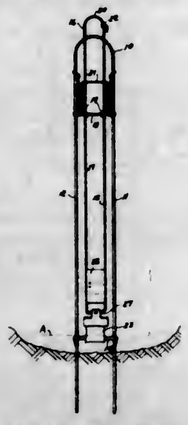
1. In a centralized traffic control system for a stretch of single track railroad divided into three or more block sections and having entering signals at the ends and intermediate signals at the junctions of said sections for governing traffic movements through the stretch in two directions, a polar neutral line relay for each signal, two systems of normally energized line circuits including one for each direction for controlling the line relays for the signals for the corresponding direction in cascade, each system of circuits being so arranged that the line relay for each signal is energized by current of normal or reverse polarity only when the block section directly in advance of such signal is unoccupied, means goverened by each line relay for an intermediate signal for supplying current of reverse polarity to the circuit for the line relay for the



next signal in the rear for the same direction when any section of said stretch in advance of such intermediate signal is occupied by a train moving in the corresponding direction and for supplying current of normal polarity to said circuit only when all of such advance sections are unoccupied, means for causing each signal to indicate caution when the line relay therefor is energized by current of reverse polarity and to indicate proceed when such relay is energized by current of normal polarity, an auxiliary relay for each entering signal having an energizing circuit which is closed only when the next signal in advance of such entering signal for the same direction indicates caution, each auxiliary relay being effective when energized to change

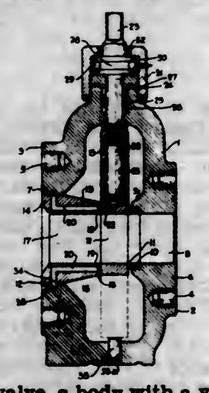
the indication of the associated entering signal from caution to proceed, a block indicator at a control office, and means controlled by the line relays for the entering signals and effective only when the line relay for at least one entering signal is energized by current of normal polarity for causing said block indicator to indicate the unoccupied condition of said block.

2,591,037
IRRIGATION SIGNAL DEVICE
Merrill L. Adams, Modesto, Calif.
Application June 11, 1949, Serial No. 98,569
13 Claims. (Cl. 116—114)



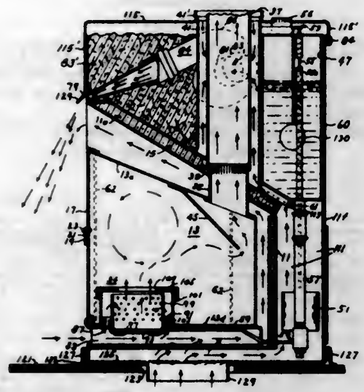
1. An irrigation signal device comprising an upright standard adapted to be emplaced in a field to be irrigated; a semaphore movably mounted on the standard having a signalling position and a non-signalling position; means urging the semaphore to signalling position; and a strap of low wet strength material arranged to restrain the semaphore in said non-signalling position, whereby said strap will rupture upon being moistened and thereby permit movement of the semaphore to said signalling position.

2,591,038
GATE VALVE
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Houston, Tex., a corporation of Texas
Application April 1, 1946, Serial No. 658,778
2 Claims. (Cl. 251—156)



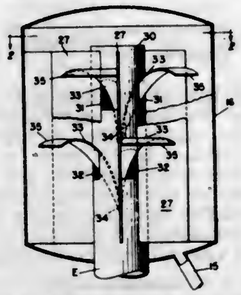
2. In a gate valve, a body with a valve chamber therein and an opening in the side wall of the body, a seating member secured within the opening, a flow passageway extending through the body and its valve chamber and formed in part in and extending through the seating member, said valve chamber having one dimension at least three times the diameter of the flow passage, said body having a valve stem opening through its wall communicating with the chamber and aligned with said one dimension of the chamber, said first mentioned opening being offset laterally outwardly from the regular contour of the chamber, the walls of the body forming the chamber being tapered outwardly to said opening, and the distance from one extremity of the chamber to the opposite edge of said opening being greater than twice the diameter of the flow passageway.

2,591,039
OIL-BURNING AIR HEATER WITH MEANS FOR DRAINING SPILLED OIL
Elias B. Barnes, Elkhart, Ind.
Original application September 17, 1945, Serial No. 616,771, now Patent No. 2,473,562, dated June 21, 1949. Divided and this application November 19, 1948, Serial No. 60,851
3 Claims. (Cl. 126—93)



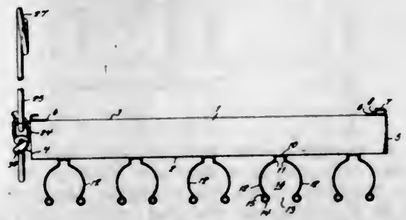
1. A heating and ventilating unit comprising, a housing having a bottom wall conformed to provide a fresh air receiving aperture in the bottom and having a wall conformed to provide a heated air delivery port at a higher level, means forming a combustion chamber in said housing for heating air circulating through the housing, an oil burner in said combustion chamber, an oil tank mounted on said housing at a higher level than the burner, conduit means for supplying oil by gravity from said tank to said burner, a filler opening in the top of the tank, means forming a spillway for receiving spilled oil on the top of the tank and guiding the spilled oil to flow down on one side and pass below the tank for disposing of oil spilled while filling the tank, a floor base for mounting on a floor under said spillway and comprising a metal sheet having upturned sidewalls of a size suitable for conveniently and removably receiving the bottom of said housing with the bottom edges resting therein, and said base having the base sheet formed with a down spout opening down from a suitable position to be associated with the air receiving aperture in the bottom of said housing for supplying fresh air thereto through a floor opening in said floor whereupon the heater unit is installed and also serving as a funnel to discharge any spilled oil.

2,591,040
PNEUMATIC LIFT CONDUIT AND DISENGAGER VESSEL
Lewis F. Bartow, Toledo, Ohio, assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application December 27, 1950, Serial No. 202,954
4 Claims. (Cl. 302—17)



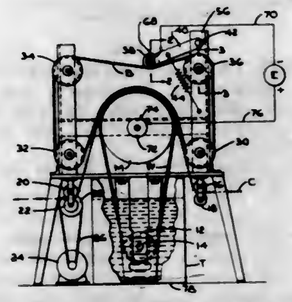
1. In apparatus for moving granular material from a lower vessel to an upper vessel through an elevating conduit having its upper end portion positioned within the upper vessel, the improvement which comprises a plurality of partitions extending longitudinally of the conduit providing a plurality of compartments therewithin, openings in the upper end portion of the conduit within the upper vessel providing a window for each conduit compartment, a deflector extending through the window of each compartment each having its inner end secured within the conduit and its outer end positioned within the upper vessel, said deflectors being adapted to interrupt the flow of the material in the conduit and deflect it outwardly in streams into the upper vessel.

2,591,041
DERBY AND MUTE RACK HOLDER
Willie Berg, Chicago, Ill.
Application November 20, 1946, Serial No. 711,066
2 Claims. (Cl. 211—89)



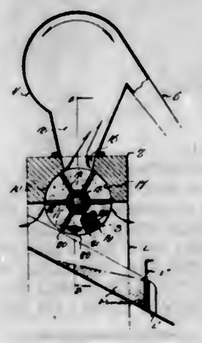
1. A rack for holding musical instruments comprising a relatively thin elongated flat plate member, U-shaped channel members on the rear edge of said plate adapted to fit over an upstanding portion of a music stand and to hold the flat face of said plate in a substantially horizontal position, a block on one end edge of said plate and extending laterally therefrom, a substantially straight rod having a loop on one end thereof, said loop adapted to hold a derby mute therein, the other end of said rod passing through said block, a set screw in said block adapted to contact said rod, said rod being at an angle to said flat face, the plane passing through said loop being outwardly of said end edge of said plate and substantially parallel thereto, and forwardly and horizontally extending mute holders on the front edge of said plate.

2,591,042
APPARATUS FOR ELECTROLYTIC TREATMENT OF SPACED METALLIC ELEMENTS
Hans Berman, Forest Hills, N. Y., and Robert L. Prupis, Irvington, N. J., assignors to Conmar Products Corporation, Newark, N. J., a corporation of New Jersey
Application January 8, 1947, Serial No. 720,878
14 Claims. (Cl. 204—202)



1. Apparatus for electrolytically treating an elongated chain of discrete metallic members secured in insulatedly spaced relation on a non-metallic carrier, said apparatus comprising a tank for an electrolyte, an endless web of relatively soft porous material having a part thereof immersed in the electrolyte and mounted for movement in a fixed path through said electrolyte, means to guide the aforesaid chain of members longitudinally of and in relatively tight engagement with a portion of said web so that the members tend to embed themselves slightly in the web, means for moving said web and chain of members in unison, a metal band having a portion thereof extending collaterally of the aforesaid portion of the web and tightly contacting the side of said chain opposite the web, and means for applying a difference in electric potential between said metal band and said electrolyte-saturated web.

2,591,043
POWDER SEPARATOR AND DISPENSER
Richard F. Berndt, Racine, Wis., assignor to Virkotype Corporation, a corporation of Virginia
Application April 19, 1947, Serial No. 742,759
4 Claims. (Cl. 209—144)



1. In apparatus of the type described including a centrifugal separator, a valve for controlling the flow of powder from the separator which comprises a valve body having an inlet orifice in its upper side adapted to receive powder from the separator, a recess in the bottom side of the valve block and in communication with said orifice, said bottom side of the valve block lying in a

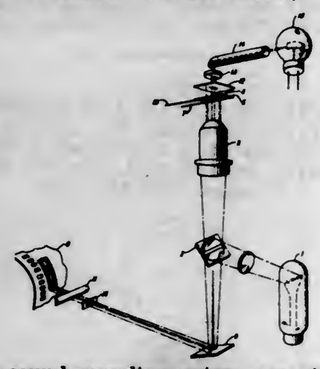
substantially horizontal plane and said recess being circularly arcuate in cross section and subtending an angle of not substantially more than 180°, and a dispensing valve mounted to rotate through said recess, said dispensing valve including spaced radial fins forming a plurality of receiving pockets, and said fins being spaced from the wall of said recess to allow passage of air into said separator through said recess and said inlet orifice.

2,591,044
FUEL TANK CONSTRUCTION
Warren C. Bomhardt, Baltimore, and Earl H. Sorg, Hyde, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application October 26, 1945, Serial No. 624,756
4 Claims. (Cl. 220—81)



1. A tank for the storage of hydrocarbon liquids having its structural members secured together by a plurality of rivets, a sealing strip inserted in each joint between said members, said rivets extending through said members and said sealing strip, said strip comprising a composition of substantially 70% of copolymer of about 96% vinyl chloride and 4% vinyl acetate and 30% of a poly ester of glycol sebacate.

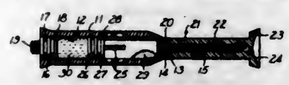
2,591,045
SOUND RECORDING SYSTEM
Lewis B. Browder, La Canada, Calif., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1948, Serial No. 68,230
13 Claims. (Cl. 179—100.3)



1. In a sound recording system, a moving light-sensitive film, a source of light, a pair of spaced light reflecting current-carrying ribbons disposed in the light beam from said light source, means disposed between said light source and said ribbons for imaging the reflecting surface of said ribbons at said film and means for vibrating said ribbons to produce a record on said film.

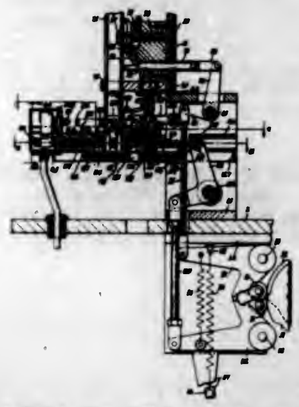
2,591,046
HYPODERMIC SYRINGE ASSEMBLY
Frank E. Brown, Burbank, Calif., assignor to Frederick M. Turnbull, Los Angeles, Calif.
Application October 13, 1948, Serial No. 55,134
13 Claims. (Cl. 128—218)

1. In a hypodermic syringe, the combination of: a barrel having an orifice for the discharge of liquid therefrom; a primary piston movable in and in sealing relationship with said barrel; and an auxiliary piston movable in and in sealing relationship with said barrel between said primary piston and said orifice and dividing said barrel into a chamber for a medication and a separate chamber for the liquid vehicle for the medication, the medication chamber having a



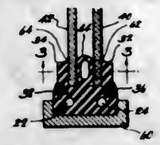
capacity such that in addition to the medication which it may contain it may receive all of the liquid vehicle within the separate chamber, said barrel having, in its inner wall, a groove within the medication chamber and short of the end of said barrel, said groove providing a passage through which the vehicle bypasses said auxiliary piston into contact with the medication during travel of said auxiliary piston toward said orifice.

2,591,047
CONDENSER WINDING TESTING AND SORTING APPARATUS
James S. Burge, Anderson, Hilton J. McKee, Middletown, and Warren M. Rider, Loris H. Conrad, and Floyd J. Foust, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 21, 1948, Serial No. 22,454
9 Claims. (Cl. 209—75)



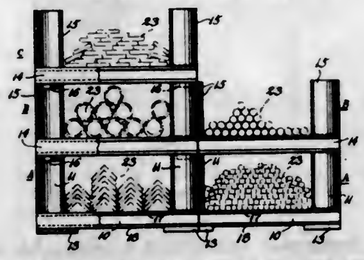
8. A machine for testing and sorting condensers comprising a carriage having jaw supports providing jaws for engaging the side surface of a condenser winding, spring means for urging the jaw supports together whereby the jaws grip the winding, means for moving the carriage from a loading station, an intermediate station at which the jaws are permitted to grip the winding and then to a discharge station, a fixed stop engaged by one jaw support as the carriage moves into the loading station whereby the jaws are separated to receive a condenser winding, a fixed stop engaged by the other jaw support as the carriage moves into the discharge station whereby the jaws are separated at the discharge station to permit gravitation of the winding, a switch mounted on one of the jaw supports, a switch operating member mounted on the other jaw support, the status of said switch being changed if movement of the jaws together a certain distance as the carriage moves to the intermediate station is not blocked by the winding, the status of said switch remaining unchanged if the winding is oversize, a sorter into which the windings pass at the discharge station and means dependent for operation upon the status of the switch remaining unchanged for conditioning the sorter for oversize winding segregation.

2,591,048
CONNECTOR STRIP
Russell J. Bush, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 2, 1949, Serial No. 74,056
2 Claims. (Cl. 20—56.5)



1. A connector strip comprising a body portion of elastic deformable material having a substantially U-shaped cross section, the arms of said U being integrally connected to the main body portion by thin neck portions and being capable of rotatable movement toward a perpendicular position, separate filler strips insertable in grooves within said body portion for rotating said arms to a perpendicular position, and an elastic compressible hollow sealing member positioned intermediate said arms and extending the length of the strip, said hollow member being integrally connected to said body portion by an elastic neck portion which permits lateral movement of said sealing member relative to said body portion.

2,591,049
CRANE LOADING PORTABLE BAR RACK
William G. Butsch, Fort Thomas, Ky.
Application February 18, 1949, Serial No. 77,243
1 Claim. (Cl. 211—60)



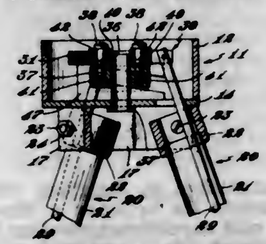
A unitary rack section which comprises a rigid beam consisting of spaced channel irons having parallel vertical webs and spaced horizontal flanges extending from the edges of said webs, said flanges on each web extending in an opposite direction from the flanges on the other web, a tubular post secured to said horizontal flanges at each end of said beam, said posts being parallel, of equal length, and both being mounted on the same side of the beam, the free ends of the posts terminating in a plane perpendicular to the axes thereof, the beam having a face on the side thereof remote from the posts parallel to the free ends of the posts, and a centering lug at each end of said face secured to the other horizontal flanges of the beam in alignment with said posts, each of said centering lugs being adapted to fit inside one of the posts of another similar rack section with said face of the beam resting on the free ends of the posts of said similar rack section.

2,591,050
ROOF FOR TRUCK BODIES
William G. Butsch, Fort Thomas, Ky.
Application December 20, 1950, Serial No. 201,768
6 Claims. (Cl. 296—100)



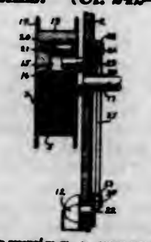
2. A truck body which comprises a floor, side walls, a front wall, a plurality of extensible roof supporting frames attached to the upper edge of each of the side walls, inner ends of the frames attached to each side wall being connected by a ridge member, said ridge members and frames being advanceable from a retracted position adjacent the side walls to an extended position in which the ridge members substantially abut and the frame members span the top of the body, flexible sheet roof members attached to the ridge members and advanceable therewith from retracted position in which the top of the body is uncovered to extended position in which the roof members cover the top of the body, a rear frame extending between rear ends of the side walls adjacent the tops thereof, open topped chain ways in the top of the front wall and of the rear frame, compression loadable chains in said chain ways, each of said ridge members being attached to one of said chains at each end thereof, means for guiding the roof panels into alignment with the sides of the body when retracted, means for holding said roof members taut and for drawing the roof members down the sides of the body when retracted, and means for advancing the chains in the chain ways to advance the ridge and roof members from retracted to extended positions.

2,591,051
TRIPOD
Byrt C. Caldwell, Scituate, Mass., assignor, by mesne assignments, to Harold K. Chisholm, Wellesley, Mass.
Application March 22, 1949, Serial No. 82,870
4 Claims. (Cl. 248—188)



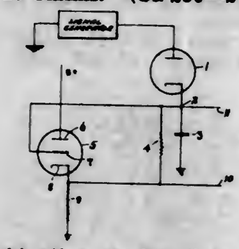
2. A tripod for supporting an instrument comprising a head adapted to hold said instrument, three extendible legs each having an inner sleeve with one end pivotally attached to said head, the opposite end thereof being slotted, and an outer sleeve telescoping with the slotted end of said inner sleeve, a movable arbor having a tapered portion projecting into the slotted end of each of the respective inner sleeves whereby the slotted end can be expanded to lock the outer sleeve, and manually operable cam means located in said head and connecting with the arbors for moving the arbors into the respective slotted sleeve ends thereby frictionally to lock the legs in selected positions of adjustment accommodating the supporting terrain.

2,591,052
REEL
Marvin Camras, Chicago, Ill., assignor to Armour Research Foundation of Illinois Institute of Technology, Chicago, Ill., a corporation of Illinois
Original application July 17, 1944, Serial No. 545,207, now Patent No. 2,515,190, dated July 18, 1950. Divided and this application February 1, 1946, Serial No. 644,818
4 Claims. (Cl. 242—118)



1. A reel for carrying a recording medium and of a type adapted to be mounted on a magnetic recording and reproducing device and pay off the recording medium for reproduction purposes only, said reel having an annular hollow portion within the inner limits of the recording medium carrying portion thereof and having an inner wall extending substantially in the plane of rotation thereof, and a projecting stop extending from said inner wall into said hollow portion to hold the reel from rotation in a winding direction by selective abutment with a part of said device under certain conditions of operation, said projecting stop being removable when desired to permit rotation of said reel under all operating conditions.

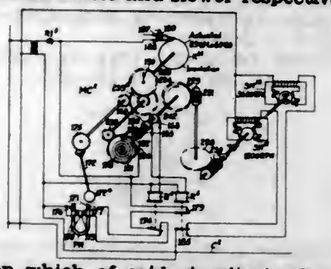
2,591,053
LEAK COMPENSATED CAPACITOR
Dealonde R. de Boisblanc, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 24, 1947, Serial No. 763,403
10 Claims. (Cl. 250—27)



10. A combination as described comprising a capacitor, means for applying a charge to one terminal of said capacitor, a vacuum tube triode having a cathode, plate and grid, a connection from said terminal to said grid, a connection including an impedance from said cathode to the other terminal of said capacitor, and a second impedance connected across said grid and cathode.

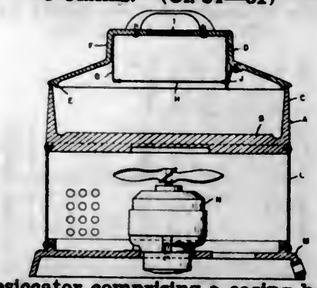
2,591,054
SUSTAINED POWER ELECTRIC CLOCK
Oscar H. Dicke, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 9, 1945, Serial No. 609,808
14 Claims. (Cl. 58—26)

1. In a sustained power electric clock; the combination with a synchronous motor device operated from a source of alternating current having its frequency regulated to correctly manifest the passing of time; a time lapse manifesting means including a speed governing device, a local source of energy for driving said time lapse manifesting means, and time indicating means controlled by said governing device; means including a first circuit and a second circuit and control means operated thereby for causing said governing device to operate faster and slower respectively de-



pendent on which of said circuits is closed the greater amount of time; and means including circuit controlling devices governed jointly by said speed governing device and said synchronous motor device for intermittently closing said first circuit, intermittently closing said second circuit or intermittently closing both of said circuits for time intervals dependent upon the extent to which one of said devices has gained or lost with respect to the other of said devices.

2,591,055
DESICCATOR USING AN ABSORBENT
Harry W. Dietert and John A. Schuch, Detroit, Mich., assignors to Harry W. Dietert Company, Detroit, Mich., a corporation of Michigan
Application May 2, 1949, Serial No. 90,906
3 Claims. (Cl. 34—81)

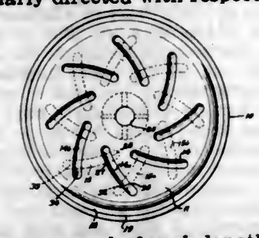


1. A desiccator comprising a casing having its walls and bottom formed of material of relatively high thermal conductivity and specific heat, said casing being adapted to receive the material to be desiccated, a cover for said casing, means for supporting desiccant material by said cover, a base having an upwardly extending perforated side wall on which said casing is supported, and a motor driven fan on said base for blowing air in contact with the bottom of said casing to dissipate heat therefrom by convection.

2,591,056
FILTER
George R. Ericson, Kirkwood, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application June 16, 1947, Serial No. 754,882
2 Claims. (Cl. 210—181)

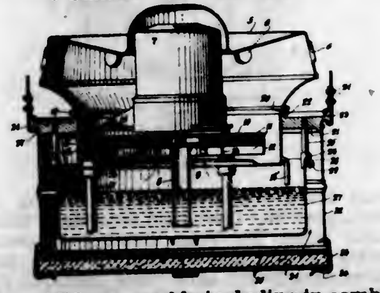
1. A filter element for fluid filters, said element being formed of superimposed spaced walls

bonded together at their outer marginal edge portions, said walls being formed with registering central openings and intermediate planar portions, each of said spaced walls being formed at their planar portions with inwardly facing ribs angularly directed with respect to the radius



of the structure and of such length and so relatively spaced that they will each overlie and contact at intersecting inner and outer points, respectively, the adjacent ribs formed in the opposite wall, whereby the walls will be relatively spaced and supported in two spheres about the center of the structure.

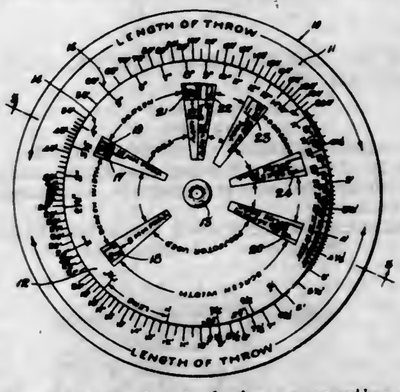
2,591,057
HUMIDIFIER STRUCTURE
William Feldermann, Irvington, N. J.
Application February 19, 1949, Serial No. 77,319
6 Claims. (Cl. 261—91)



3. A humidifier assembly including in combination a transversely extending supporting ring presenting inner and outer edges, a motor driven air and water distributing structure projecting through said ring and bearing in substantially air tight relation against its inner edge surface, a pan supported below and spaced from said ring at a point intermediate its edges to encircle in spaced relation the lower end of said distributing structure, a casing having its upper edge portion secured in substantially air tight relation to said ring adjacent the outer ring edge and extending downwardly therefrom whereby air will flow upwardly towards said ring through said casing, around the upper edge of the pan, downwardly into said pan and thence upwardly through the distributing structure to be discharged above said ring, a filter closing the lower end of said casing and overlapping the lower edge thereof to prevent a passage of air into said casing except through said filter and quick detachable means extending between said casing and filter to removably secure the latter to said casing.

2,591,058
SCREEN AND LENS CALCULATOR
Howard E. Freeman, Sherman Oaks, Calif.
Application March 19, 1951, Serial No. 216,384
1 Claim. (Cl. 235—84)

In a calculator of the class in which relatively movable members inscribed with coacting scales are selectively adjusted to indicate screen width from known values of projector aperture size, lens focal length, and projector-to-screen distance, a flat base having a pivot point, and inscribed with a first series of characters arranged in a continuous circular scale representing different projector-to-screen distances in clockwise consecutive order of increasing magnitude, said base being inscribed with a second series of characters arranged in a second continuous circular scale within said first series of characters representing different projection screen widths in clockwise consecutive order of increasing magnitude, said first series of characters and said second series of characters being concentric to said pivot point, a rotatable flat disc mounted on said pivot point, the periphery of said disc being inscribed with a third series of characters arranged in a continuous circular scale concentric to said point and representing different sizes of projection

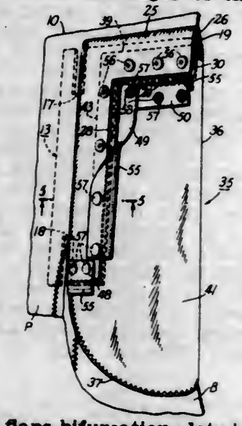


lens focal length in clockwise consecutive order of increasing magnitude, said disc having its peripheral edge contiguous to said first series of characters and lying over and obstructing said second series of characters, said disc being formed with a plurality of windows each representing different projector aperture sizes and each adapted to disclose selectively certain of said second series of characters, said disc being adapted to be rotated about said pivot point until any desired character of said first series on said base and its respective scalar mark is aligned with any desired character of said third series on said disc and its respective scalar mark, each of said windows disclosing from the second series of characters on said base the particular screen width necessary for the particular projector-to-screen distance, the particular lens focal length, with the particular projector aperture size of that window.

2,591,059
REPLACEABLE POCKET AND METHOD FOR APPLYING THE SAME
Ernest L. Frohman, Mount Vernon, N. Y.
Application June 11, 1949, Serial No. 98,544
7 Claims. (Cl. 2—247)

4. A replacement pocket for attachment to a remnant of a pocket cut to a predetermined outline so as to have the remnant conform substantially to and project from the edge around the mouth of the pocket comprising, in combination, a partially formed pocket including a mouth portion having attaching edges conforming substantially to the edge of the remnant of the cut-away portion around the mouth of the pocket, said attaching edges having overlying locking flaps affixed adjacent each of said edges along

lines congruent with the remnant as outlined and forming between the edges of the replacement



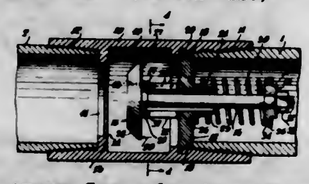
pocket and flaps bifurcation slots into which the remnant may fit.

2,591,060

EXCESS FLOW CONTROL VALVE

Owen L. Garretson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application March 9, 1946, Serial No. 653,247
9 Claims. (Cl. 251—127)



4. In an excess flow valve, in combination, a valve seat, a support on the upstream side of said valve seat defining an elongated cylindrical passage, and a valve head assembly normally spaced from said seat, said assembly including a stem mounted within said passage and of substantially smaller diameter than said passage, a helical spring encircling said stem, the ends of said spring being secured to said support and to the upstream end of said stem, respectively, a valve head secured to the downstream end of said stem and normally retained in spaced relation to said valve seat by said helical spring, said valve head having a surface disposed transversely to the direction of fluid flow through said valve, and a tapered portion formed on said stem adjacent said valve head, said tapered portion being of progressively increasing diameter proceeding from a point spaced from said valve head toward the point of attachment of said valve head to said stem, said support having structure formed to guide the tapered portion of said stem to a centered position within said passage.

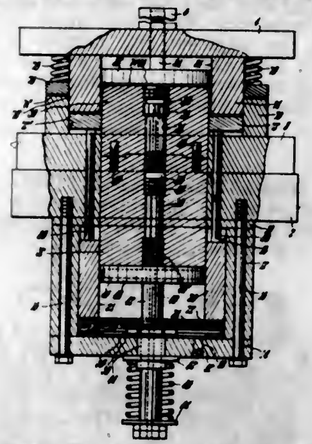
2,591,061

HYDRAULIC DIE

Richard J. Gaudreau, Longmeadow, Mass., assignor to Production Tool & Die Co. Inc., Springfield, Mass., a corporation of Massachusetts

Application January 24, 1949, Serial No. 72,481
2 Claims. (Cl. 113—45)

1. The combination with an upper punch holder reciprocable vertically towards and away from a press bolster of die mechanism comprising, a lower die set member secured to the upper side of the bolster and a lower member secured to the underside of said bolster, a draw member secured to the underside of said punch holder, said draw member and bolster and lower die set member provided with vertically disposed and aligned secondary bores and said lower member provided with a primary bore in alignment therewith of greater diameter than that of said first-named bores, closure means closing the lower end of the primary bore of the lower member, a primary piston reciprocable up and down in said lower member having a secondary bore in alignment with the first-named bores, a secondary piston reciprocable up and down in the secondary bores, a piston rod projecting from said secondary piston downwardly through said closure and spring means acting on said rod to resist upward movements of said rod and piston, an outer blanking member fixed to the upper side



of said lower die set member having a bore spaced outwardly from said secondary piston, an annular inner blanking member between said secondary piston and bore of the outer blanking member and below said draw member reciprocable up and down relative thereto, and push rods reciprocable up and down in the press bolster and lower die set member having upper and lower ends for abutment by the lower side of the inner blanking member and upper side of the primary piston, all adapted and arranged whereby as the punch holder is moved downwardly towards the lower die set member said draw member moves said inner blanking member downwardly to act on said push rods and move the primary piston downwardly for displacing fluid in the primary bore to act on and move the secondary piston upwardly against the action of said spring means.

2,591,062

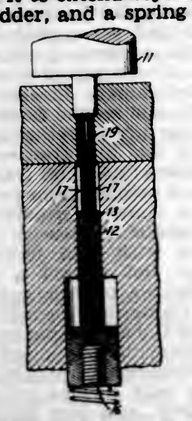
EXTRUSION DEVICE AND PROCESS

Lewis L. Gillett, Endwell, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application March 3, 1948, Serial No. 12,756
1 Claim. (Cl. 207—2)

A die for extruding a metallic ferrule to form a slug upon an end of a tuft of metallic filaments comprising a die body having a cavity projecting therethrough, the said cavity tapering at its one end to have a larger cross-section to hold a ferrule, a movable shedder slidable axially within the said cavity in its smaller cross-section, the said shedder having a longitudinal bore for positioning the said tuft therein, an abutment at one end of the said shedder and movable therewith,

the said abutment contacting one end of the said tuft to position it to extend beyond the other end of the said shedder, and a spring acting against



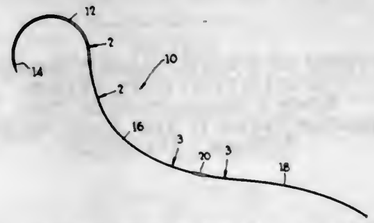
the said abutment to bias the said shedder normally so that the protruding end of said tuft enters the said ferrule.

2,591,063

SURGICAL SUTURE

Harry Goldberg, Brooklyn, N. Y.

Application May 14, 1949, Serial No. 93,397
8 Claims. (Cl. 128—334)



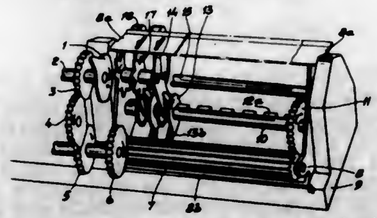
1. A composite, surgical eye suture constituting two combined flexible filaments, one of said filaments being a fine metallic wire and the other of a soft, pliable material.

2,591,064

SUCCESSIVELY OPERATED INDEPENDENT ACTUATOR TENS TRANSFER MECHANISM

Erik K. Grip, Atvidaberg, Sweden, assignor to Aktiebolaget Atvidaberg-Facit, Atvidaberg, Sweden, a joint-stock company of Sweden

Application March 5, 1951, Serial No. 213,845
In Sweden March 17, 1950
2 Claims. (Cl. 235—138)



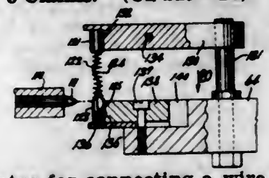
1. Tens transfer mechanism for products and quotient registers of calculating machines of the type in which axially displaceable tens transfer elements are provided with a tens transfer tooth, characterized in that the tens transfer elements are provided with two oppositely directed conical surfaces, and a hook having two projections each of which cooperates with one of said conical surfaces, said hook effecting positive displacement of the tens transfer element to either of two different axial positions when said hook is moved from one of its positions to another between said conical surfaces.

2,591,065

SOLDERING APPARATUS

Carl Habel, Warren, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 5, 1950, Serial No. 160,176
8 Claims. (Cl. 219—12)



1. Apparatus for connecting a wire to a metal contactor by solder and comprising a conveyor, metal workholders supported thereby, each for supporting an assembly including a hollow, metal contactor, a wire extending therein and a piece of solder within the contactor, means for indexing the conveyor to bring the holders successively to a soldering station, an electrode for engaging the contactor, a mechanism for advancing and retracting the electrode with respect to the contactors while at the soldering station, means for connecting the electrode and the workholders with terminals of a current source to provide an electrical circuit closed by engagement of the electrode with the contactor whereby the passage of current melts the solder which, on solidifying subsequent to retraction of the electrode, unites the wire with the contactor and an assembly remover provided with means for placing the wire under tension to determine whether the wire is attached to the contactor by the solder.

2,591,066

SLIDING SUPPORT MECHANISM

David E. Hartman, Toronto, Ontario, Canada

Application December 16, 1950, Serial No. 201,097
6 Claims. (Cl. 311—46)



1. In a sliding support mechanism for a retractable leaf type table top adapted to mount two main table top halves, the combination of: a mounting plate, a pair of opposed support members slidably mounted on said mounting plate and movable in a direction toward and away from a common theoretical medial line therebetween, means on each of said slidable support members adapted to mount a main table top half whereby two table top halves are disposed in coplanar relationship, a retractable bracket member and means thereon for supporting a retractable leaf between said slidable support members, retractable levers pivotally mounted on said mounting plate between said slidable members and deflectable from a substantially vertical parallel spaced apart position toward the medial line, means near the free ends of said levers for supporting said bracket and for moving it from a retracted position wherein the leaf member thereon is disposed below the plane of said main table top halves to an outward position coinciding with the plane of said table top halves when said levers are disposed in substantially parallel

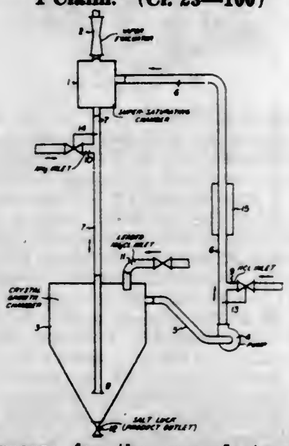
spaced apart manner, and means operatively relating sliding motion of each sliding member with the other and including means for engaging said retractable levers to cause swinging movement of the latter to their substantially vertical positions when said slidable members are moved outwardly with respect to one another.

2,591,067

CHEMICAL PROCESS FOR PRODUCTION OF LEADED AMMONIUM CHLORIDE CRYSTALS

Carl V. Herrmann, Highland, Ind., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application March 16, 1948, Serial No. 15,134
1 Claim. (Cl. 23—100)



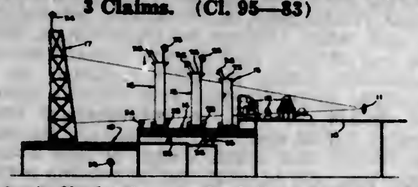
In a process for the manufacture of hard, dense leaded ammonium chloride crystals continuously circulating an aqueous solution substantially saturated with ammonium chloride, containing lead chloride, and acidified with hydrogen chloride to a pH of about from 5 to 7 to a vaporization zone, evaporating water under vacuum from the solution in the vaporization zone until the solution is super-saturated with ammonium chloride, adding ammonia to the solution until it is ammoniacal while the solution is flowing from said vaporization zone to a crystallizing zone, crystallizing leaded ammonium chloride crystals from the solution in said crystallization zone, separating the crystals gravitationally from the mother liquor, adding lead chloride, ammonia, and hydrogen chloride to the separated mother liquor, and recirculating the so-fortified mother liquor to the initial step of the process.

2,591,068

STUDIO BACKGROUND

Eugene L. Hilchey, Los Angeles, Calif.

Application August 30, 1948, Serial No. 46,790
3 Claims. (Cl. 95—83)



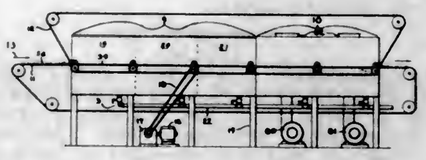
1. A studio background of the class described which includes: a support for a camera; a first framework having an unobstructed aperture therethrough; a first transparent screen supported by said framework in said aperture; a photographic image on said screen; a light diffusing coating on said screen aligned with said image and co-extensive therewith; rails supporting said framework for movement toward and away from said camera; a second framework supported by said rails for movement toward and away from said camera independently of said first framework, said second framework having a unobstructed aperture therethrough aligned with said aperture of said first framework and in the field of said camera; a second transparent screen supported by said second framework in said aperture thereof; a third transparent screen supported by said second framework in said aperture thereof, aligned with said second screen and parallel thereto, but spaced a small distance therefrom; a flexible transparent screen carried by said second framework for movement between said second and third transparent screens while being at least partially supported by the latter; a generally translucent, light diffusing image on at least one of said screens supported by said second framework, said last image cooperating with said photographic image to produce a composite image, as viewed by said camera, having the appearance of depth; a translucent light diffusing screen mounted on said second framework for placement in or removal from a position behind said second and third transparent screens; and lighting means for independently projecting light onto said images carried by said first and second frameworks for viewing both of said images by light transmitted therethrough, toward said camera.

2,591,069

METHOD OF CONTINUOUSLY DIGESTING AND DRYING FLAX STRAW

Edwin T. Hodge, Portland, Oreg.

Application August 31, 1945, Serial No. 613,797
2 Claims. (Cl. 92—10)



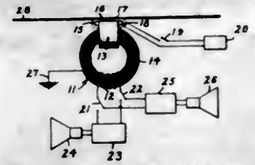
1. The method of treating fibrous straw which comprises passing the straw in a relatively thin layer in a relatively straight substantially horizontal line through a plurality of liquid filled receptacles, maintaining the temperature of the liquid in the receptacles substantially at the boiling point thereof, wringing and compressing the straw upon passage thereof from one receptacle to the next, passing said straw to a drier without substantially lowering the temperature of said straw emerging from the last of said receptacles, the straw being dried in said drier at a temperature above the temperature of the liquid in said receptacles.

2,591,070

COMBINED MAGNETIC TRANSDUCER HEAD AND OUTPUT TRANSFORMER

Hugh A. Howell, Valparaiso, Ind., assignor to The Indiana Steel Products Company, Chicago, Ill., a corporation of Indiana

Application April 17, 1947, Serial No. 742,142
5 Claims. (Cl. 179—100.2)



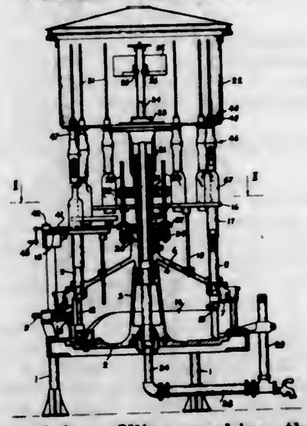
1. An electromagnetic transducer head comprising a pair of core members and a pair of coils, one of said coils being an input-output coil which is wound on a first one of said core members and the other of said coils being a single turn short-circuited coil wound on both of said core members, the second one of said core members being a strip of magnetic material of high permeability and low retentivity, the second coil being mounted on an intermediate portion thereof and the ends of said strip being bent back over said coil in closely spaced confronting relationship thereby to define a gap across which a magnetic record member is arranged to pass.

2,591,071

APPARATUS FOR FILLING LIQUID CONTAINERS HAVING VERTICALLY ADJUSTABLE TANK AND CONSTANT LEVEL VALVES

Leroy Gale Huggins, Glen Ridge, N. J., and Wilbur H. Bulcao, Pittsburgh, Pa., assignors to Horix Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application November 10, 1950, Serial No. 194,952
4 Claims. (Cl. 226—96)



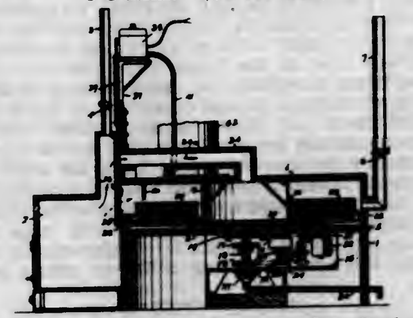
1. In a container filling machine, the combination with a continuously rotatable tank provided in its bottom with a plurality of circumferentially spaced liquid outlets, a carrier below the tank rotatable in unison with it, vertically movable container rests carried by the carrier in line with said tank outlets, and means for periodically raising each container rest a predetermined distance while said carrier is rotating, of container filling valves connected with said tank outlets and extending downward from the tank in line with the underlying container rests, each valve comprising a vertical nozzle rigidly connected to the tank, a vent tube of considerably smaller diameter than the inside of the nozzle rigidly connected to the upper end of the nozzle and extending down through it, a tubular barrel surrounding the lower end of the tube and rigidly supported by it, the barrel having a closed lower end and an inside diameter considerably greater than the tube, a valve seat secured to the lower end of the barrel and projecting radially therefrom, one side of the barrel being provided with a liquid outlet and the other side of the barrel being provided with a vent port communicating only with the lower end of the vent tube, the top of said port being located a predetermined distance from the bottom of the tank, a sleeve surrounding the vent tube and slidably mounted in the nozzle and on the barrel to conduct liquid from the tank to the upper end of the nozzle, a coil spring encircling the sleeve and normally pressing the lower end of it down onto said valve seat to close said barrel outlet and vent port, and a sealing washer mounted in a predetermined position on the sleeve and adapted to be engaged by the top of a container when the container is pushed up around the sleeve, whereby the sleeve is pushed upward to uncover said barrel outlet and vent port, said washer being so positioned on the sleeve as always to raise the lower end of the sleeve above the top of the vent port so that the filling level for containers will be determined by the location of the top of the vent port relative to the underlying raised container rest, and manually operable means for adjusting the tank vertically relative to the carrier to raise or lower the level of the tops of all of the vent ports simultaneously, whereby to change said filling level.

2,591,072

BARBECUE PIT

Zach A. Hughes, New Caney, Tex.

Application April 28, 1947, Serial No. 744,404
3 Claims. (Cl. 99—260)



1. Equipment of the character described comprising, an oven, means in the oven separating it into a central inner chamber and an outer chamber about the inner chamber, a rotatable support in the oven, meat containers spaced apart on the support in the outer chamber, means for rotating said support to revolve said containers, means for rotating the containers as they revolve, a furnace adjacent the oven, said furnace having an entrant opening into the outer chamber and a duct leading from the furnace into the inner chamber and automatic means for alternatively opening and closing said entrant opening and duct.

2,591,073

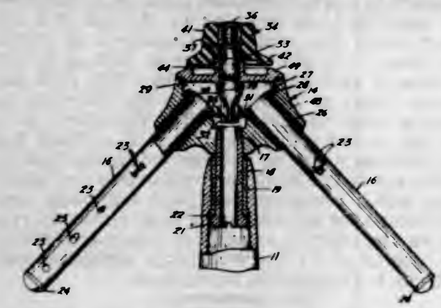
SPRINKLER

Ivar Jepson, Oak Park, Ill., assignor to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois

Application June 19, 1948, Serial No. 34,083
1 Claim. (Cl. 299—69)

In a sprinkler the combination of a sprinkler head comprising a hollow body having a bottom

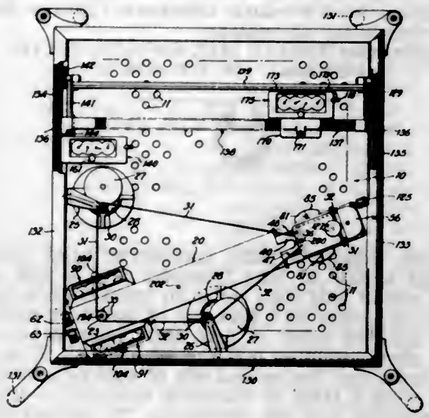
wall portion and a side wall portion providing a cup shaped open top chamber, the bottom wall portion having a central water inlet and provided with means for supporting said head to rotate about an axis coaxial with said water inlet, discharge nozzles supported on said side wall portion at opposite sides of said axis and having nozzle adjustment means within said chamber, bosses integral with said side wall portion extending into said chamber at points intermediate said nozzles, each boss having a threaded opening parallel with said axis, a gasket seated on the open end of said body at the outer side of said bosses, a cover seated on said gasket having screw openings in registration with said boss openings, screws passing through said cover openings and threaded into said boss openings for clamping the cover against said gasket and body, a stud



mounted for rotation in the cover about an axis coaxial with the first mentioned axis and having one end projecting into the chamber for coaction with said nozzle adjustment means and its opposite end projecting beyond the cover, an indicator knob having a central hand grasp portion and an annular skirt portion extending outwardly from the base of the hand grasp portion, said screws being provided with heads bearing against the upper surface of said cover and at least one of said knob and cover being provided with a recessed portion for receiving said screw heads, and means for mounting said indicator knob on said opposite end of said stud with said skirt portion forming a shield overlying said screw heads, said skirt portion providing a relatively large top surface and having indicia circumferentially arranged thereon indicating different nozzle settings.

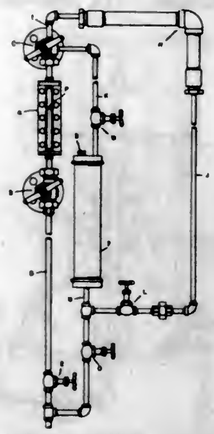
2,591,074
HYPERBOLIC POSITION LOCATING DEVICE
Reynold B. Johnson, Binghamton, Henry Alfred Hendrich, Endicott, and Gustav V. A. Malmros, Binghamton, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 21, 1945, Serial No. 579,110
8 Claims. (Cl. 33—189)

8. In a point locating apparatus, a board, an arm pivoted on an axis normal to said board; two posts mounted on said board on opposite sides of said arm, in predetermined positions in relation to the pivot of said arm; two flexible elements comprising normally slack portions supported at one end on a fixed part of said arm remote from its pivot and at the other end at the arm pivot, and intermediate their ends, respectively, on said posts; a slider on said arm having point representing means, said flexible elements being crossed over each other around said point representing means, so that when said slider is moved on said arm toward said pivot said flexible elements will become taut and stop said movement; and separate means for independently ad-



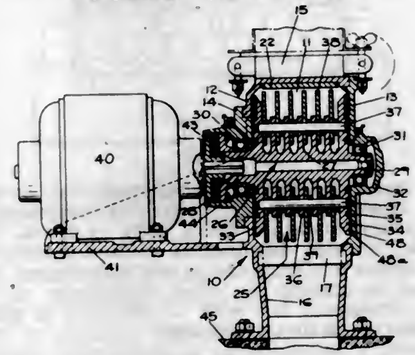
justing the lengths of said normally slack portions of said flexible elements.

2,591,075
LIQUID LEVEL GAUGE ATTACHMENT
Horace James Johnson, Grosse Pointe, Mich., assignor, by mesne assignments, to Buffalo-Eclipse Corporation, a corporation of New York
Application March 21, 1949, Serial No. 82,648
4 Claims. (Cl. 73—323)



1. The combination with a liquid level gauge having portions respectively containing liquid and vapor under pressure, of means for introducing into said gauge a non-miscible liquid of lower specific gravity, comprising a container for the latter liquid, a condenser, a vapor supplying connection to said condenser, a valve controlled connection between the condenser and the lower end of said container, and a connection between the upper end of said container and the upper end of said gauge through which liquid may be discharged by the hydrostatic pressure of the condensate in said condenser.

2,591,076
GRINDER, INCLUDING MEANS PREVENTING THE ENTRANCE OF MATERIAL BETWEEN THE ROTOR AND HOUSING THEREOF
Lloyd K. Knight, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application February 25, 1950, Serial No. 146,311
6 Claims. (Cl. 241—226)



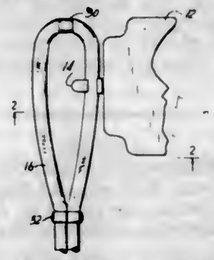
5. A grinder including a material reducing chamber having a side wall, a material reducing rotor in said chamber adapted to rotate on an axis and having an end wall adjacent said chamber side wall, and a wiper mounted on said rotor end wall for movement toward and from said chamber side wall and having a wiping contact therewith, said wiper having a leading edge which extends generally radially with respect to the rotor and which has its radially innermost position leading its radially outermost position when said rotor is rotated in its normal direction of rotation.

2,591,077
METHOD OF PRODUCING A THERMOPLASTIC CELLULOSE ACETATE COMPOSITION
Bayard T. Lamborn, Matawan, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 12, 1951, Serial No. 220,733
3 Claims. (Cl. 106—196)

1. The method of producing a thermoplastic cellulose acetate composition containing cellulose triacetate in an amount within the range of about 10 to 50% which comprises kneading secondary cellulose acetate plasticized with about 20% to about 30% plasticizer therefor at an elevated temperature below the temperature of decomposition thereof while gradually adding thereto particles of cellulose triacetate, said particles being permeated with plasticizer in concentration varying from at least about 45% at the surface thereof to about 15 to 20% at the greatest distance from the surface, and continuing kneading until a uniformly colloided plastic mass is obtained.

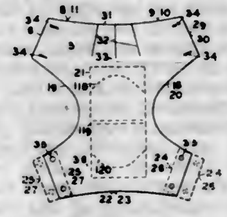
2,591,078
WRIST WATCH AND BRACELET
Benjamin Lasrus, New York, N. Y., assignor to Benrus Watch Company, Inc., New York, N. Y., a corporation of New York
Application October 25, 1946, Serial No. 705,738
7 Claims. (Cl. 224—4)

1. In combination, a wrist-watch case, a bail on said case, said bail having a hole passing therethrough with a slot leading to said hole at the bottom of the bail, a bracelet including a loop of cord or similarly compressible material adapted to be pressed through the aforesaid slot into the



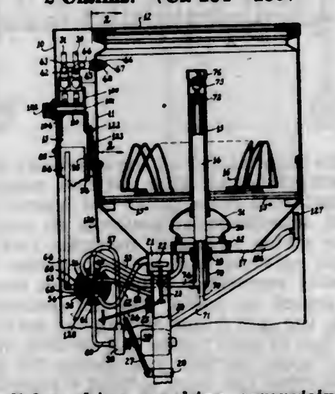
hole, and a rigid bushing on the loop received in the hole of the bail and having a diameter substantially the same as that of the hole and substantially larger than the width of the slot.

2,591,079
DIAPER PANTS
Mary R. Leaton, Kansas City, Mo.
Application April 10, 1950, Serial No. 155,027
6 Claims. (Cl. 128—284)



1. A diaper pants comprising a double thickness of cloth sewed together, two opposite edges of said cloth having concave curves, a plurality of darts, said plurality of darts placed in said cloth transverse to one of said concave curves, the two remaining opposite edges of said cloth having concave curves for recesses, projected cloth between said leg recesses and said first concave curves, and positive button means on said projected cloth to secure it around an infant.

2,591,080
DISHWASHING MACHINE
Lawrence A. Loeb, New Haven, Conn.
Application June 13, 1944, Serial No. 540,033
2 Claims. (Cl. 134—139)



1. A dishwashing machine comprising a tub, a standard projecting upwardly from the bottom

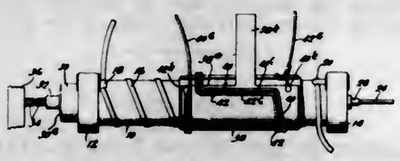
of the tub, a dish rack, means for supporting the dish rack on said standard in a position spaced from the bottom of the tub, a hollow sprayer head, means on the bottom of the tub for supporting said sprayer head for rotation about said standard, and means to draw water from the tub and force it through said sprayer head toward the dish rack.

2,591,081

RADIO-FREQUENCY TRANSFORMER

Harold T. Lyman, Milford, and Donald R. De Tar, Stratford, Conn., assignors to Aladdin Industries, Incorporated, Chicago, Ill., a corporation of Illinois

Application September 7, 1949, Serial No. 114,294
11 Claims. (Cl. 171—119)



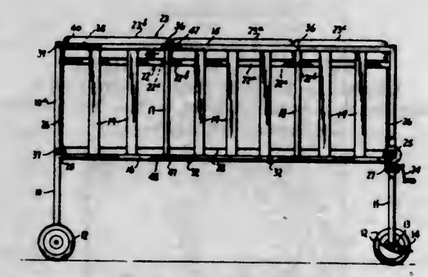
1. A pickup-free constant-impedance coupling coil for use with an inductor of the type having a conducting tuning sleeve, said coil including a sheet of conducting material substantially encircling said inductor with its adjacent ends insulated from each other and a pair of conducting elements insulatingly supported from said sheet and each extending a substantial distance longitudinally of said inductor, said elements being conductingly attached to spaced points on said sheet and each leaving the sheet substantially at the point of attachment of the other, said elements being closely adjacent each other in the regions intermediate said last points.

2,591,082

HOME HOSPITAL UNIT FOR POLIOMYELITIS VICTIMS AND INVALIDS

Lora H. Lynch, Chicago, Ill.

Application May 19, 1950, Serial No. 163,000
1 Claim. (Cl. 5—60)



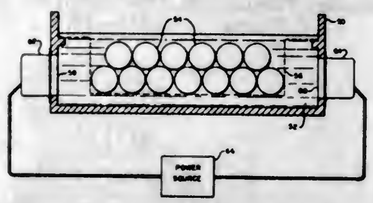
A home hospital unit of the character described for poliomyelitis and other patients, comprising a wheel supported rectangular bed frame, a spring unit and superimposed mattress in said frame, both the spring unit and mattress having separate end sections and center sections and the latter being removable to provide leg room for a patient seated on one of the end sections of the mattress, the said frame having end sections, and at least one of said frame end sections including a hinged upper portion and means for inclining and supporting the same so that a patient seated at that end of the frame may rest in a reclining position.

2,591,083

REMOVAL OF FLASH, FIN, AND BURR

Herbert N. Maier, Pottstown, Pa., assignor to Doehler-Jarvis Corporation, New York, N. Y., a corporation of Michigan

Application March 4, 1947, Serial No. 732,311
10 Claims. (Cl. 51—2)



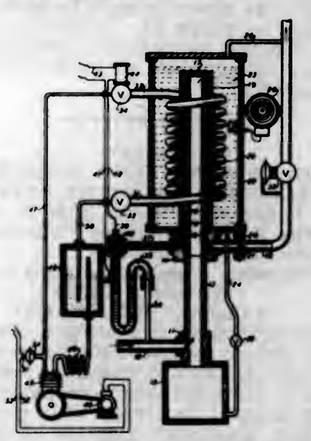
4. Apparatus for removing flash, fin, or/and burr from objects, said apparatus comprising a stationary container for a body of liquid, two spaced vibratile diaphragms contacting said liquid, means to vibrate one of said diaphragms, and means to vibrate the other diaphragm at the same frequency but with a difference in phase relative to the first diaphragm.

2,591,084

APPARATUS FOR DETERMINING THE SOLIDIFYING TEMPERATURES OF VAPORS DISPERSED IN GASES

Armor B. Martin, Butte, Mont.

Application September 30, 1948, Serial No. 51,968
6 Claims. (Cl. 73—17)



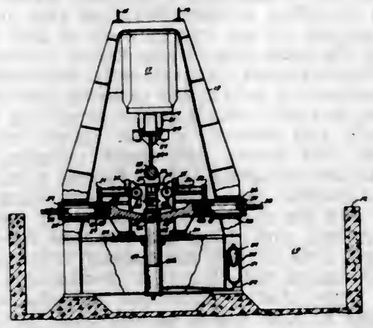
2. Apparatus for determining the temperature at which a solid is deposited from a gas containing the vapor of said solid, comprising: a channel of area sufficiently restricted that its resistance to gas flow is measurably increased by minute deposits of solids therein; means for passing a stream of said gas through said channel; means for applying a cooling effect to said channel while said stream is flowing therethrough to progressively reduce the temperature of said channel to the point at which said vapors are congealed and deposited therein; automatic means responsive to fluctuations in pressure difference between the ends of said channel for withdrawing said cooling effect when said channel becomes obstructed by the deposition of solids therein and for reapplying said cooling effect when said obstruction is removed by elevation of the temperature of said channel, and means for continuously recording the temperature of said channel.

2,591,085

MACHINE FOR BENDING SHEETS

Donald O. McCall, Napa, Calif., assignor to Basalt Rock Company, Inc., Napa, Calif., a corporation of California

Application June 6, 1949, Serial No. 97,369
15 Claims. (Cl. 153—34)



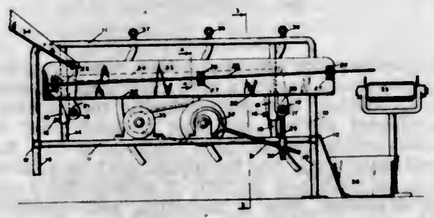
8. A machine for bending substantially flat blanks comprising, in combination, a plurality of longitudinally spaced upright frames providing openings therein for longitudinal movement of a blank; a vertically movable, longitudinally elongated mandrel; a pair of longitudinally elongated forming members disposed to provide between them a mandrel opening having a width in excess of the width of the mandrel and movably mounted on said frames for movement to decrease the width of the mandrel opening; means for forcing the mandrel downward into the mandrel opening; conveyor means comprising rollers and vertically movable support means therefor disposed in said mandrel opening between said frames; means yieldably urging said conveyor means upwardly to a position for yieldably supporting a blank above the forming members; and means for moving said forming members toward each other as said mandrel is forced downwardly in said mandrel opening.

2,591,086

BERRY CLEANER

Arthur B. McLauchlan, Salem, Oreg.

Application June 14, 1948, Serial No. 32,867
1 Claim. (Cl. 209—329)



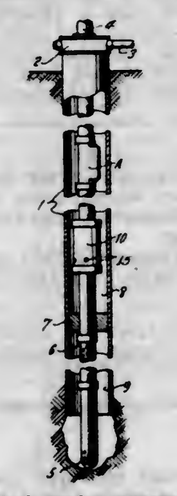
A berry cleaner of the character described for separating straw or other elongated foreign particles from berries, comprising a pan having side walls and a bottom wall, said pan supported on two pairs of pivotally-mounted similar rocker arms located near the intake and discharge ends of said cleaner respectively, said arms mounted to swing in substantially parallel vertical planes parallel to the longitudinal center line of said pan, the arms in each pair being parallel to each other and located on opposite sides of said pan respectively, all of said arms being inclined from the vertical in similar direction but the angle of inclination from the vertical of the arms at said intake end being greater than that of the arms at said discharge end, a grating firmly mounted in said pan above said pan bottom and extending from said intake end to said discharge end, said grating sloping slightly upwardly at all times from said intake end to said discharge end and having longitudinal slots parallel to the longitudinal center line of said pan, the width of said slots being less than the minimum dimension of the berries to be cleaned but greater than the width of the straw and other elongated particles to be separated from the berries, and means for imparting a rapid oscillatory movement to said pan and arms and thus to said grating, thereby causing said grating to be oscillated simultaneously in horizontal and vertical directions with the amount of vertical oscillation being greater at the intake end than at the discharge end of said cleaner, said pairs of arms being so arranged that they will raise said pan and grating with their forward swing in the direction of said discharge end and lower said pan and grating with their return rearward swing in each cycle of oscillation and thus cause the upward slope of said grating to be momentarily slightly reduced during each forward thrust on said grating and correspondingly increased momentarily during each return rearward movement of said grating, whereby the resulting composite oscillatory vibration of said grating will cause all material when deposited on the intake end of said grating to travel upwardly forwardly on said grating and at the same time will cause straw or similar elongated foreign particles while traveling forwardly on the grating to become arranged in parallelism with said slots and so caused to drop through said slots.

2,591,087

HYDROPNEUMATIC GRADUATOR

Roy E. Millican, Dallas, Tex., assignor of one-third to Clyde C. Johnston, Jr., one-third to George Leroy Millican, one-sixth to Edward L. Millican and one-sixth to Mattie M. Millican Phillips, all of Dallas, Tex.

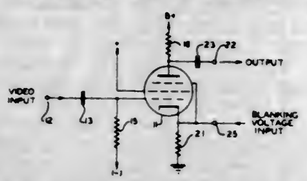
Application March 10, 1947, Serial No. 733,558
8 Claims. (Cl. 103—232)



1. In a bottom hole hydro-pneumatic graduator for oil wells, a tubing string having gas actuated lift devices therein, a housing incorporated in said tubing string below said gas lift devices having gas pressure inlet orifices therein, an insert in said housing having a tubular extension pro-

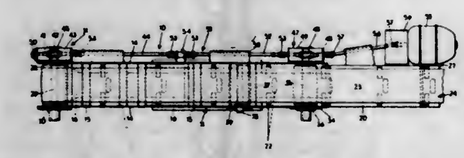
vided with fluid outlet openings, a sleeve reciprocably mounted on said extension having openings alignable with those of said extension and elevated by gas pressure through said inlet orifices to align the sleeve and extension openings for increased upward passage of fluid through said tubing and housing to said gas lift devices, said sleeve being retracted upon equalization of gas pressures above and below the same to disalign said openings to retard the flow of fluid therethrough.

2,591,088
VIDEO BLANKING CIRCUIT
Jacob Millman, Brookline, Mass., and Richard C. Allen, Carthage, Mo., assignors, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 30, 1945, Serial No. 631,955
3 Claims. (Cl. 178—7.1)



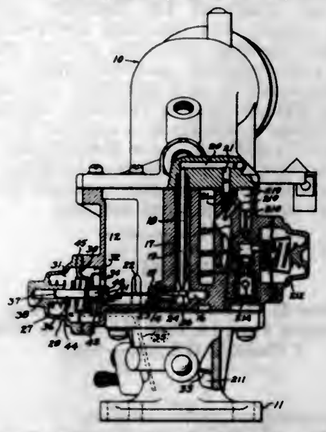
3. A circuit for blanking a predetermined portion of a train of signals comprising, a pentode electron tube having a cathode, an anode, a control grid, a screen grid and a suppressor grid, first and second sources of positive voltage, said screen grid being directly connected to said first source of positive voltage, a first resistor connecting said anode to said second source of positive voltage, a second resistor substantially similar to said first resistor connecting said cathode to ground, a source of negative voltage, a third resistor connecting said control grid to said source of negative voltage to maintain said pentode in quiescent condition at a point near cutoff, a source of video signals, a first capacitor connecting said source of video signals to said control grid, a source of positive square voltage pulses connected to said cathode and to said suppressor grid, and a second capacitor connected to the junction of said anode and said first resistor for providing output signals substantially similar to said input video signals but having a portion thereof blanked.

2,591,089
BELT CONVEYER DRIVE
Sterling C. Moon, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application February 3, 1948, Serial No. 6,035
1 Claim. (Cl. 198—203)



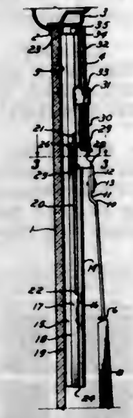
An endless belt conveyer including a head section having a main frame including spaced upright side members, a head pulley at the front of said frame and between the side members thereof, an endless belt reeved over said pulley to form an upper conveying run and a lower return run, a pair of closely positioned pulleys spaced longitudinally rearwardly of said head pulley an appreciable distance over which the return run of said endless belt is reeved, a drive shaft for said head pulley, a drive shaft for one pulley of said pair of pulleys, said drive shafts extending transversely of said frame and having their ends projecting laterally beyond the sides thereof, drive mechanism for said pulley drive shafts including a speed reducing gear mechanism carried on one end of each of said shafts and on the same side of said frame, a motor on said frame spaced longitudinally rearwardly of the rearmost of said speed reducing gear mechanisms, and drive shaft means extending longitudinally and laterally of said frame interconnecting said motor and speed reducing gear mechanisms including a shaft having a universal joint adjacent each end interconnecting said motor and the rearmost of said speed reducing mechanisms, and drive shaft means having a universal joint at each end thereof interconnecting said speed reducing gear mechanisms, said pulley drive shafts projecting laterally beyond the sides of said frame as aforesaid to receive said drive mechanism upon either side of said frame.

2,591,090
METERING PIN
Odus O. Newman, Normandy, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application February 12, 1947, Serial No. 727,962
1 Claim. (Cl. 138—46)



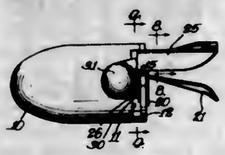
In a carburetor provided with a liquid fuel supply passageway having a restricted orifice therein, a longitudinally movable metering rod having a control end portion movable through said restricted orifice for variably restricting fuel flow therethrough, said rod terminating at its opposite end in an S-shaped portion of substantially uniform diameter, and a metering rod operating member having a rod attaching lug with an opening therethrough of a diameter substantially greater than the diameter of said crank portion, said opening having its axis at a right angle to the direction of movement of said rod, and said rod crank portion having its intermediate transverse part disposed at a different angle to said direction and lodged between diagonally opposite marginal portions of said opening in the operative position of the rod wherein the control end portion thereof is in extension through said restricted orifice, such as to cause a lateral tensioning of the metering rod to a degree constraining the rod against one side of said orifice.

2,591,091
RECIPROCABLE WINDSHIELD WIPER BLADE MOUNTING
Robert J. O'Connor, Kansas City, Mo.
Application October 30, 1948, Serial No. 57,536
1 Claim. (Cl. 15—255)



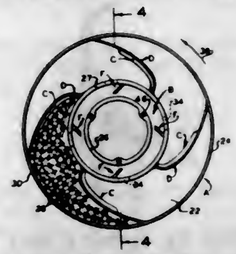
A wiper for a vehicle windshield having a transparent panel in a frame comprising, an actuating arm mounted for oscillation in an arc to sweep over the panel of the windshield, a wiper blade having a longitudinally arranged slot terminating in spaced relation to the ends of the blade, a blade mounting member carried on the free end of the wiper arm in longitudinal alignment therewith and having portions embracing the blade for slidably mounting same for lengthwise reciprocation of the blade longitudinally of the actuating arm, means on the blade mounting member extending into said slot for retaining the member on the blade, guide means fixed on the blade mounting member and extending therefrom parallel to the blade, means on the blade spaced from the blade mounting member having sliding engagement with the guide means for retaining the blade in alignment with the actuating arm, a spring having engagement with the blade and blade mounting means for moving the blade lengthwise away from the actuating arm, and a roller on the end of the wiper blade remote from the axis of oscillation for engaging the windshield frame to limit the longitudinal movement of said blade whereby during oscillation of the actuating arm the blade is in alignment with said arm and the path of movement of the outer end of the blade is defined by the roller and windshield frame.

2,591,092
FINGERNAIL GUARD
Alexander D. Okonski, Chicago, Ill.
Application March 14, 1950, Serial No. 149,570
5 Claims. (Cl. 2—21)



4. A finger nail guard comprising a supporting plate, a pair of base plates in a contactual relation with said supporting plate, a nail guard member extending from each of said base plates, a pivot carried by said supporting plate, said base plates being set upon said pivot for a rotary shifting movement thereabout, tensioning means in association with said pivot and said base plates for normally maintaining said nail guard members in a mutually shifted position towards each other, means for inducing a rotary shifting of said base plates around said pivot against the action of said tensioning means for shifting said nail guard members away from each other for accommodating therebetween various widths of finger nails, and a finger supporting member disposed below said nail guard members.

2,591,093
ROTARY BRUSH WITH LIQUID RECEIVING AND FEEDING CHAMBER
Nathaniel N. Okun, Far Rockaway, N. Y., assignor to Atlas Floor Surfacing Machinery Corp., New York, N. Y., a corporation of New York
Application July 19, 1947, Serial No. 762,129
8 Claims. (Cl. 15—180)



1. A rotary brush comprising a base plate, brushing elements projecting downwardly from the lower surface thereof, an annular liquid receiving and feeding chamber defined in part by inner and outer side walls, said chamber being centrally mounted on said base plate and having a liquid inlet and having liquid outlet orifices in the outer side wall thereof through which liquid is centrifugally expelled to the top surface of said base plate when the brush is rotated, vanes in said chamber extending inwardly from said outer side wall adjacent the trailing edges of said outlet orifices and into the direction of rotation of said brush so as to force the liquid in said chamber through said orifices when the brush is rotated, said base plate having drainage openings inwardly disposed with respect to its periphery through which liquid may fall to inwardly positioned brushing elements, and fins on the top surface of said base plate so oriented as to force liquid on the top of said base plate inwardly against centrifugal force to said drainage openings.

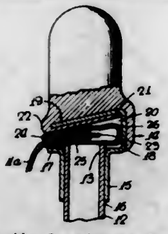
2,591,094
COMBINED SEALING TAB AND BOOKMARK
James O'Neill, New York, N. Y.
Application June 16, 1950, Serial No. 168,623
6 Claims. (Cl. 281—42)



1. In a combined book mark and seal for a book having front and rear covers and a plurality of pages therebetween, a paper jacket adapted to be engaged about the outer faces of the covers with flaps folded inside each of the covers, a

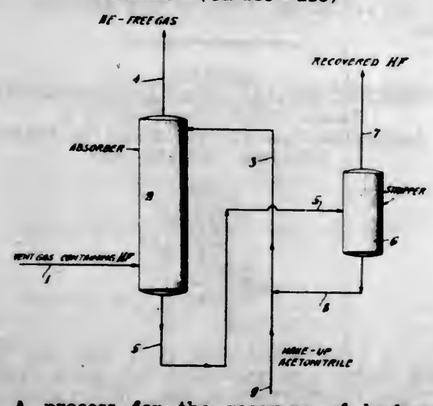
patch secured to the inner face of said jacket at the back thereof, a string secured at one end to said patch, a sealing member formed on one of said flaps at the fold line thereof, said sealing member including a longitudinal strip to which said string is secured, a tab on the end of said strip, a tab on the side of said strip, scored lines on either side of the strip, and an adhesive coating on the outer face of said latter tab for securing the same to the other flap, whereby said first tab and said strip can be torn free of said flaps along said scored lines, the string and the strip then forming a book mark.

2,591,095
UMBRELLA COVER CONSTRUCTION AND TIP THEREFOR
Max Ornstein and Matthew Ornstein, New York, N. Y.
Application September 13, 1946, Serial No. 696,638
2 Claims. (Cl. 135—36)



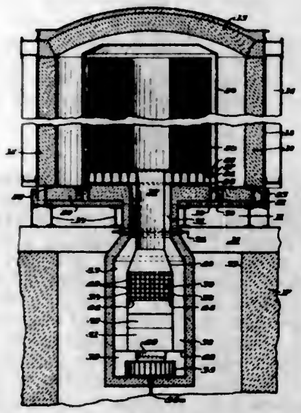
2. An umbrella tip having a body, a socket at one end of the body which is generally cylindrically formed for receiving the umbrella rib-end, a flange forming a first jaw at the other end of the body, an extension from said body having a second jaw overlying the flange and forming with said flange a lateral slot, said extension being deformable for bringing said first and second jaws toward each other into engagement over the umbrella cover, and wherein said extension and second jaw carry a facing cap or head normally axially disaligned and becoming aligned upon deformation bringing the jaws into engagement with the umbrella cover.

2,591,096
HYDROGEN FLUORIDE RECOVERY
Joe E. Penick, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application May 8, 1950, Serial No. 160,647
7 Claims. (Cl. 183—115)



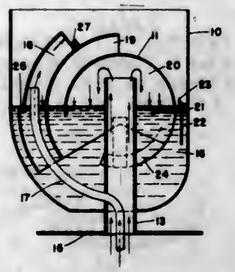
1. A process for the recovery of hydrogen fluoride from an anhydrous mixture of hydrogen fluoride and a fluid substantially chemically inert to hydrogen fluoride and acetonitrile, which comprises: contacting said mixture with a hydrogen fluoride-acetonitrile complex, whereby hydrogen fluoride present in said mixture is selectively absorbed by the complex; and removing absorbed hydrogen fluoride from said complex.

2,591,097
BASE FOR COVER-TYPE ANNEALING FURNACE WITH EXTERNAL MEANS FOR CIRCULATING AND COOLING ATMOSPHERE GASES
Hugh J. Pugsley, Pittsburgh, Pa., assignor to Swindell-Dressler Corporation, Aspinwall, Pa., a corporation of Pennsylvania
Application May 24, 1947, Serial No. 750,272
9 Claims. (Cl. 263—40)



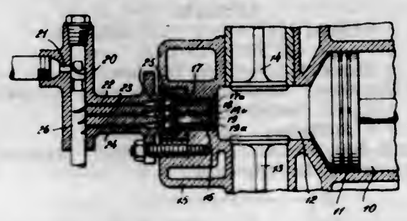
1. In a base for a cover-type furnace, a charge support spaced above the base having a central port, a passage extending downwardly through the base coaxial with said port, a flue extending upwardly through the passage to about the level of said support, and a fan spaced from the base for circulating the atmosphere surrounding a charge on said support through said passage and flue.

2,591,098
BREATHING DEVICE FOR STORAGE TANKS
Harold A. Quist, Elkton, Md., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application July 24, 1947, Serial No. 763,347
4 Claims. (Cl. 137—53)



1. A breathing device comprising in combination; a housing adapted to contain sealing liquid having a normal level therein; an inverted open sided valve member pivotally mounted in said housing for oscillating movement from an intermediate position in opposite directions, said member being positioned in said housing when it is in its intermediate position so that both edges are below the normal liquid level and thereby submerged in the sealing liquid and when oscillated in one direction one edge is below the normal liquid level and the other edge is above the normal liquid level to form a vacuum relief chamber, and when oscillated in the other direction the said one edge is raised above the normal liquid level to provide a pressure relief passage, a conduit extending from the exterior of said housing thereinto and to a point above the normal liquid level and within said valve member and adapted to be connected to a source of pressure; and a separate pivotally mounted oscillatable operating chamber secured to said valve member for oscillating the same in either direction, said operating chamber having two ends, one of which is sealed to the atmosphere and projects above the normal liquid level at all times during its oscillating movements and the other being open and positioned below the normal liquid level at all times during its oscillating movements; and a second conduit being adapted to be connected to the same source of pressure as said first conduit and extending into said operating chamber.

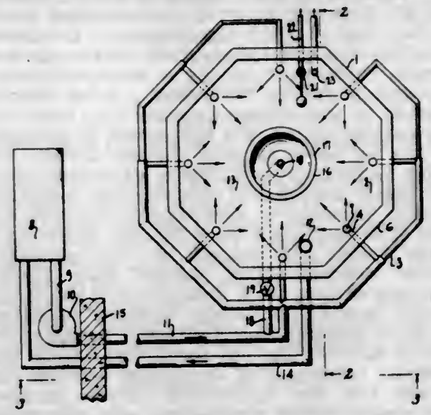
2,591,099
INTERNAL-COMBUSTION ENGINE
Kristian Rasmussen, Copenhagen, Denmark
Application November 18, 1946, Serial No. 710,553
In Denmark March 16, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires March 16, 1960
9 Claims. (Cl. 123—32)



1. A method of operating an internal combustion engine having a cylinder to be supplied with liquid fuel in successive charging periods, which comprises injecting the fuel into the cylinder without interruption during each charging period at a substantially constant rate and under decreasing pressure.

2,591,100
COOLING BASIN FOR AIR CONDITIONING UNITS
Claude C. Rouse, Houston, Tex.
Application September 2, 1950, Serial No. 182,915
2 Claims. (Cl. 299—7)

1. A cooling system for heated fluid from a heat imparting unit which includes a pump, said cooling system comprising, a basin, a manifold, a conduit line connecting said manifold with the discharge side of said pump, tubular risers from said manifold extending upwardly into said basin and being radially spaced from the center of said basin and substantially diametrically opposed to each other across said basin and having radial slots therein spaced one above the other and above the bottom of said basin through which said fluid under the force of said pump may be expelled in fan-like sprays and directed radially inwardly toward the center of said basin so that said sprays from said opposed risers impinge upon each other to aerate and cool said fluid,



and a conduit line in said basin below said slots for returning the cooled fluid to the suction side of said pump.

2,591,101
PUMP
Ellis B. Smith and Lester D. Mowrey, Wichita Falls, Tex.; said Smith assignor to said Mowrey
Application May 29, 1946, Serial No. 673,013
3 Claims. (Cl. 103—158)

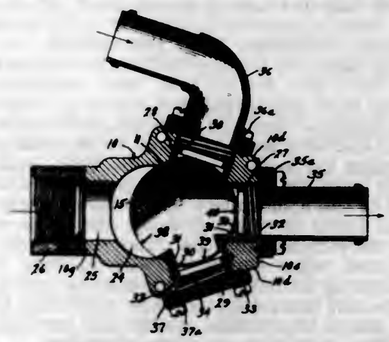


1. A replaceable pumping unit insertable in a deep well casing for pumping a fluid therethrough, comprising in combination a well tubing having a working barrel coupled at the lower end thereof, and in alignment therewith, said well tubing being limited in its transverse dimension to permit its facile insertion into said deep well casing, means for rigidly and removably attaching said well tubing to said well casing at its mouth to hold said well tubing suspended longitudinally in said well casing, a seating body removably disposed in said working barrel and having a longitudinal passage formed therethrough, an upstanding tubular member of restricted diameter connected to said seating body, said upstanding tubular member having a passage formed therein which interconnects with said passage in said seating body for the flow of fluid therethrough, a cylinder having its upper end closed, a plunger rod within said well tubing and connected to said cylinder for reciprocation thereof, said cylinder being of restricted

diameter so as to fit loosely, transversely within said working barrel so as to form an annular space between the outer diameter of said cylinder and the inner diameter of said working barrel for the flow of fluid therethrough, a valvular sleeve fitted in said cylinder and frictionally held thereby, said sleeve having a terminal portion contoured to form a valve seat, a guide member attached to said cylinder adjacent its lower end for partially closing said end, which guide member has an axial opening formed therein and having radially spaced axially extending openings formed around said axial opening, said guide member surrounding said tubular member and being slidable with respect thereto, check valve means within said passage in said upstanding tubular member which passage leads upward from said seating body, means within the length of said upstanding tubular member to engage said guide member on the extreme upward movement of said cylinder but permitting limited longitudinal, reciprocating movement between said cylinder and said upstanding tubular member, valve means rigidly disposed on said upstanding tubular member, said valvular sleeve surrounding said upstanding tubular member and being spaced transversely therefrom to provide an annular passage therebetween and said sleeve arranged to reciprocate relative to said valve means disposed on said upstanding tubular member of opening and closing off flow of fluid between said valve means and the end of said valvular sleeve to and from said annular passage upon reciprocation of said cylinder so as to permit a discharge of fluid from said cylinder through said radially arranged openings in said guide member into and through said annular space between said cylinder and said working barrel, thence upward through said well tubing and out of said well casing, said cylinder, upon being raised by said pump rod, causes said valvular sleeve to be raised to seat upon said valve means to close off the flow of fluid into said annular passage thereby preventing the entrance of fluid through the radially spaced openings formed in said guide member, and simultaneously exerting suction on said tubular member to open said check valve in said passage so as to draw fluid upward through said passage in said upstanding tubular member into the upper portion of said cylinder, said cylinder being lowered during its reciprocation to force said valvular sleeve downwardly away from said valve means to open said annular passage and cause the fluid entrapped within said cylinder above said check valve to pass outward from said cylinder through said annular passage formed in said valvular sleeve and through said radially spaced openings in said guide member in a downward direction into said well tubing and upwardly therethrough and out at the upper end thereof, the complete path of travel of the fluid being of a quasi-N-contour.

2,591,102
SELECTOR VALVE
Jacob Rush Snyder, Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application June 25, 1945, Serial No. 601,377
4 Claims. (Cl. 251—113)

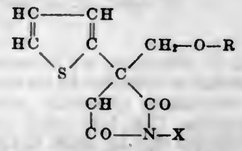
1. A selector valve comprising a housing and a plug rotatable therein, said plug having three merging passageways therein extending to first, second and third openings on the periphery of said plug, said first and second openings and said second and third openings being spaced a predetermined arcuate distance less than ninety degrees, an outlet port in said housing, a first inlet port in said housing disposed opposite said outlet port and having an extended recess in confronting relation with the periphery of said plug, each end of said extended recess being spaced from said outlet port an arcuate distance substantially equal to twice said predetermined distance, and a second inlet port spaced from said outlet port an arcuate distance substantially



equal to said predetermined arcuate distance, whereby said plug may be positioned for no fluid flow between said ports, for fluid flow only between said first inlet port and said second inlet port, for fluid flow between said first inlet port, said second inlet port and said outlet port, for fluid flow between only said second inlet port and said outlet port, and for fluid flow between only said first inlet port and said outlet port.

2,591,103
5-SUBSTITUTED-5-(2-THIENYL) HYDANTOINS
James J. Spurlock, Denton, Tex.
No Drawing. Application February 9, 1950, Serial No. 143,364
8 Claims. (Cl. 260—309.5)

1. A 5-substituted - 5 - (2 - thienyl) hydantoin represented by the formula

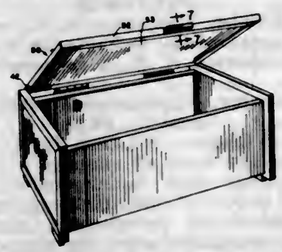


wherein R represents a radical of the group consisting of cyclohexyl, phenyl and lower alkyl radicals, and X represents a member of the class consisting of hydrogen and basic salt-forming groups having a low toxicity to the human body.

2,591,104
RECEPTACLE
Nathan M. Stone, Chicago, Ill.
Application June 22, 1948, Serial No. 34,513
6 Claims. (Cl. 220—4)

1. A receptacle comprising a continuous body of sheet material bent to form front, back, and bottom portions with outwardly projecting channels at the ends of each portion and with top, front, and rear strips to form edges for the receptacle and having tongues extending from the ends of each strip, inner and outer panels insertable within the end channels to close each end of the receptacle, the inner panel at each end having slots through which the tongues at the upper front and rear edges are inserted and bent oppositely to secure the inner panel in place,

and a connected marginal frame extending around the edges of the panels and the channels

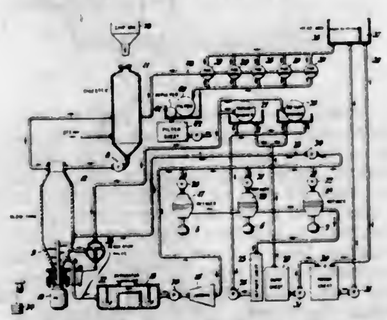


at the ends of the receptacle body and projecting outwardly beyond the body at the sides, bottom and across the top thereof.

2,591,105
EXOTHERMICALLY REACTING SLEEVE FOR RISERS
Kossy Strauss and Ronald F. Boddey, Birmingham, England, assignors to Foundry Services Limited, Nechells, Birmingham, England, a British company
No Drawing. Application August 6, 1948, Serial No. 43,014. In Great Britain August 19, 1947
11 Claims. (Cl. 22—147)

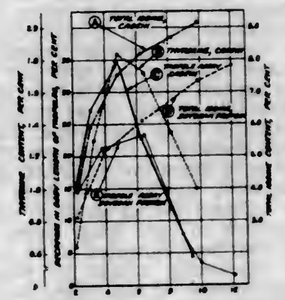
1. A substantially sleeve-shaped article adapted for contact with molten metal used in the production of castings and molded from a heat producing mixture consisting essentially of aluminum, an oxidizing agent containing a substantial amount of a member selected from the group consisting of iron oxide and manganese dioxide, the amount of said agent being substantially below that needed to react with the aluminum to oxidize it completely, and 1 to 5% by weight of a fluoride compound selected from the group consisting of sodium fluoride, potassium fluoride, cryolite and potassium aluminum fluoride to facilitate the burning of the aluminum with oxygen derived from the atmosphere and to lower the temperature at which reaction starts.

2,591,106
PROCESS OF MAKING PAPER PULPS
Daniel Manson Sutherland, Morrisville, Pa., assignor to Lionel M. Sutherland and Douglas G. Sutherland, trustees
Application July 24, 1947, Serial No. 763,318
5 Claims. (Cl. 92—13)



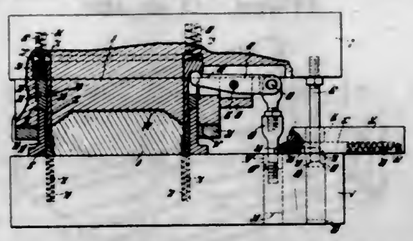
1. In a process for making paper pulp from wood, the steps including heating pieces of wood immersed in alkaline cooking liquor to a temperature of about 340° F. at a pressure of about 110 pounds per square inch for about 55 minutes; then blowing the cooked wood and the cooking liquor to a blow tank and diluting the cook with hot alkaline wash liquor at about 160° to 180° F. in said blow tank to a consistency of about 3.25% fiber solids while maintaining the temperature at about 200° F.; and then refining the diluted cook at about 180° F. while suspended in the hot alkaline liquor.

2,591,107
METHOD OF MAKING A THYROPROTEIN FEED
Charles W. Turner, Columbia, Mo., and Ezra P. Reineke, East Lansing, Mich., assignors to American Dairies Incorporated, Kansas City, Mo., a corporation of Maryland, and The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey, jointly
Original application April 19, 1945, Serial No. 589,486. Divided and this application August 12, 1946, Serial No. 689,922. In Canada October 4, 1945
1 Claim. (Cl. 99—2)



A method of making an animal or poultry feed supplement containing iodine and protein which comprises intermixing in wet condition an iodine source material and a protein containing material having an affinity for iodine and thereafter drying the mixture to form a product in which the iodine content is stabilized.

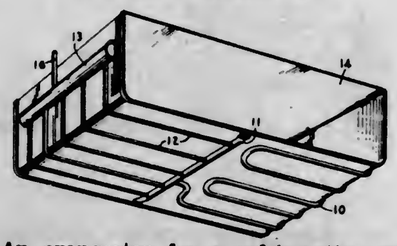
2,591,108
DIE APPARATUS
Oswald R. Vigneault and Douglas M. Small, Springfield, Mass., assignors to Production Tool and Die Co., Inc., Springfield, Mass., a corporation of Massachusetts
Application January 24, 1949, Serial No. 72,347
2 Claims. (Cl. 113—42)



1. Die apparatus for forming a dished member having an outwardly extending flange provided with a turned over peripheral edge from sheet material comprising in combination, lower and upper supports adapted for movements towards and away from one another, a cylindrical base secured to said lower support having an upper convex forming face, an upper die secured to said upper support, an annular lower blanking member around and spaced from said base and se-

cured to said lower support having an upper outer peripheral piercing edge, an annular lower slidable member between said base and blanking member slidable up and down relative thereto, an upper outer deflecting member above said lower blanking member and around and spaced from said upper die, an inner deflecting member above said slidable member and between said upper outer deflecting member and upper die, said upper deflecting members being relatively reciprocable and reciprocable relative to said base and die and slidable member, an upper annular ring around said upper outer deflecting member secured to said upper support, spring means urging said slidable member upwardly relative to said base, spring means urging said outer deflecting member downwardly relative to said die, adjacent annular faces of said ring member and blanking member arranged to pierce a blanked member between said base and die as said upper support is moved towards said lower support, a lower end of said upper inner deflecting member disposed radially inwardly from said outer deflecting member providing a space for an upturned peripheral portion of a blanked member, said outer deflecting member provided with an annular inner lower curling shoulder for engaging and turning an upturned portion of a blanked member inwardly as said upper support member moves upwardly from said lower support and said slidable member is urged upwardly by said spring means to move the upturned portion of a blanked member upwardly, a lever pivoted to said upper support having an inner end disposed below a portion of said inner upper deflecting member, a member connected to an outer end of said lever, releasable means for engaging and holding said member as said upper support moves a certain distance upwardly relative to said lower support whereby said inner upper deflecting member is moved by said lever upwardly relative to the spring means therefor and relative to said upper die, and means carried by said upper support for releasing said releasable means by upward movement of said upper support beyond said certain distance whereby said inner upper deflecting member is moved downwardly by the spring means therefor.

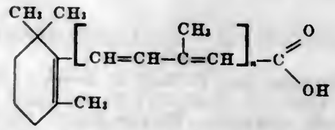
2,591,109
REFRIGERANT EVAPORATOR
James O. Wade, Adrian, Mich., assignor to Bohn Aluminum & Brass Corporation, Detroit, Mich., a corporation of Michigan
Application July 15, 1948, Serial No. 38,770
2 Claims. (Cl. 62—126)



1. An evaporator for a refrigeration system which comprises a sheet of metal, an elongated tube with closed ends forming a suction header, a plurality of tubes communicating with the header, each of the tubes being secured to the sheet throughout its length, the metal sheet having an elongated slot cut therethrough, the suction header fitting closely into said slot and being secured to the sides of the slot.

2,591,110
TREATMENT OF ISOMERIC ESTER MIXTURES
Leonard Weisler, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 22, 1949, Serial No. 89,149
5 Claims. (Cl. 260—405.6)

1. In the synthesis of vitamin A wherein an ionylic hydroxy ester is dehydrated to form a mixture of a desired completely conjugated ester and an undesirable desmotropic isomer of said completely conjugated ester, the method of treating said mixture to separate said ester from said isomer and to obtain said isomer in form suitable for isomerization which comprises subjecting a mixture of (1) an ester of an acid having the formula



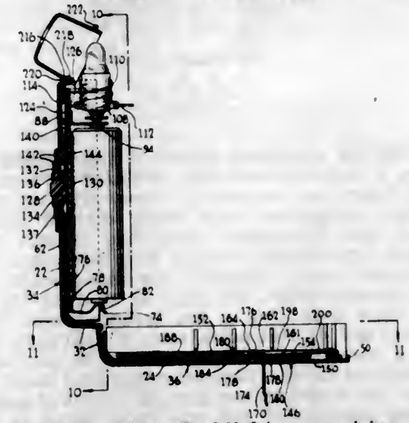
in which n is a whole integer not greater than 2 and (2) a desmotropic isomer thereof to a saponification reaction with alkali and thereby converting said desmotropic isomer to an acid salt without substantially saponifying said first-named ester, said saponification reaction being effected under correlated time and temperature conditions within the range of from five minutes at 110° C. to three hours at 20° C. and employing said alkali in an amount less than 100% excess over the stoichiometric amount based on the weight of said desmotropic isomer, extracting said saponified desmotropic isomer from admixture with said first-named ester, and re-esterifying said saponified desmotropic isomer and thereby reconstituting said desmotropic isomer substantially free of said first-named ester.

2,591,111
KEY OPERATED LOCK MECHANISM
Leon E. Willett and Raymond G. Baker, Detroit, Mich., assignors to Chamberlin Company of America, Detroit, Mich., a corporation of Michigan
Application June 20, 1949, Serial No. 100,106
13 Claims. (Cl. 70—355)



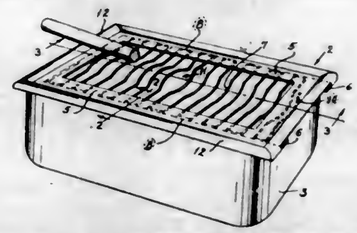
1. A lock assembly of the type adapted for operation by a key having a shank and a bit projecting laterally from the shank adjacent one end of the latter, comprising a case having plates secured together in lateral spaced relationship and one of the plates having a key receiving slot, a hub rotatably supported by the plates and positioned between the latter, said hub having an opening for receiving the key shank and having a slot registerable with the slot in said one plate for receiving the key bit, a member supported in the case for rotation about the hub axis, a tumbler pivoted intermediate the ends on the member for rocking movement about an axis substantially parallel to the hub axis, abutment means on the tumbler at one side of the pivot and engageable with a shoulder fixed relative to the case to prevent rotation of said member, spring means acting upon the tumbler to urge the abutment means into engagement with said shoulder, cam means on the tumbler at the opposite side of the pivot and adapted to respectively coact with a land on the key bit upon rotation of the key in one direction to rock the tumbler about its pivot against the action of the spring means and disengage the abutment means from the shoulder, a second abutment means at the cam end of the tumbler, and means fixed relative to the case engageable with the second abutment means upon excessive rocking movement of the tumbler toward its released position to prevent rotation of said member by the tumbler.

2,591,112
VEST POCKET FLASHLIGHT, INCLUDING ELECTRIC SYSTEM AND LOCK SUBASSEMBLY
Alex Zwierzynski, Bronx, N. Y., assignor to Henry Hyman, New York, N. Y.
Application April 27, 1948, Serial No. 23,445
7 Claims. (Cl. 240—10.65)



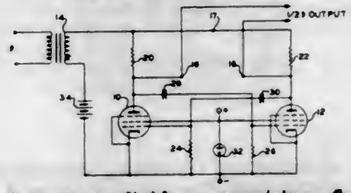
3. A vest pocket flashlight comprising two major casing parts of electrically non-conductive material, means to join said parts to each other, said means comprising a hinge including two strips rotatably joined to one another, each of said strips being disposed on a different one of said casing parts, and two panels of electrically non-conductive material, each of said panels being disposed flatly against the interior surface of a different one of said casing parts, said strips having a plurality of ears extending through registered apertures in said casing parts and panels and turned over to lie against such panels whereby to hold said panels and strips to said casing parts, one of said casing parts carrying a switch and the associated panel acting as a base panel for a sub-assembly including lamp supporting means, electrically conductive battery supporting means and means to connect said battery supporting means to the switch.

2,591,113
CIGARETTE SUPPORTING COVER
George Ajdukovich, St. Louis, Mo.
Application May 23, 1946, Serial No. 671,726
1 Claim. (Cl. 131—257)



A cover for an ash tray comprising a frame having a depending wall and an inwardly extending wall, said inwardly extending wall having a central opening therethrough, a continuous groove in the edge of the wall that defines the opening, and a grille, said grille consisting of a wire having bends therein to provide a plurality of corresponding transverse and end portions, the end portions connecting the transverse portions except at the extremities of the wire, the central parts of the transverse portions being curved and one of the end transverse curved portions lying in a plane which is at right angles to the plane of the remainder of the grille, said grille being adapted to be slid into the groove and said end transverse curved portion constituting a stop to maintain the wire in the groove by engagement with the inner surface of the depending wall.

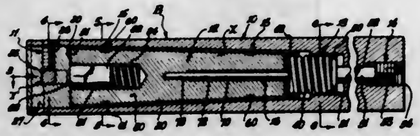
2,591,114
FREQUENCY DIVIDER
Wilmer C. Anderson, Douglaston, N. Y., assignor to the United States of America as represented by the Secretary of the Navy
Application September 14, 1945, Serial No. 616,407
6 Claims. (Cl. 250—36)



1. A frequency divider comprising, first and second electron tubes each having at least an anode and a control grid, and each having an anode voltage-anode current characteristic which approximates a square law function, the control grid of each of said first and second tubes being capacitively coupled to the anode of the other tube, first and second equal load resistors being respectively connected to the anodes of said first and second tubes and joined at a common point, an input circuit, a direct voltage source connected in series with said input circuit being connected to said common point, means for applying an input alternating signal having a peak amplitude substantially equal to the magnitude of said direct voltage to said input circuit, and output terminals connected to the anodes of said first and

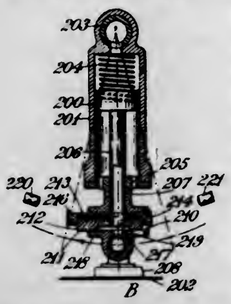
second tubes, the voltage appearing at said output terminals being an alternating signal of half the frequency of said input signal and having an amplitude proportional to the square root of the magnitude of said direct voltage.

2,591,115
TOOLHOLDER
George C. Austin, Los Angeles, Calif.
Application September 9, 1946, Serial No. 695,731
8 Claims. (Cl. 29—96)



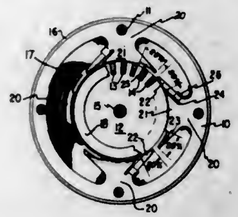
1. A tool holder of the character described including an elongated metallic body, tool holding means carried by the body, and vibration damping means carried by the body including, a block movable relative to the body and bearing on the body adjacent the tool holding means, and a spring normally holding the block in pressure engagement with the body, the block including a main metallic section bearing directly on the body and a secondary metallic section of less mass than the main section carried by the main section and movable relative thereto.

2,591,116
SHEET SEPARATING AND FORWARDING MACHINE
Headley Townsend Backhouse, Sunningdale, England
Application April 21, 1949, Serial No. 88,861
In Great Britain April 22, 1948
6 Claims. (Cl. 271—26)



1. A machine for separating individual sheets one at a time from the top of a pile and for forwarding the sheets from the pile comprising a suction gripper operating adjacent the rear edge of the upper surface of the pile and having an open mouth for suction engagement with the sheets, a cooperating piston and cylinder with an operative connection to the gripper arranged for suction operation to effect raising and lowering of the gripper, means for moving the gripper, when raised, back and forth over the pile, a conduit leading from the gripper mouth to the cylinder, a two-position shut-off valve in the conduit between the gripper mouth and the cylinder and having a port leading to the atmosphere, the valve in one position shutting the atmospheric port and opening the conduit and in the other position shutting the conduit and opening the gripper mouth to the atmospheric port and means for moving the valve from the first position to the second near the end of the operative forward movement of the gripper and for moving the valve back to the first position near the end of the operative backward movement of the gripper, the machine being arranged for operation in a cycle in which the gripper is lowered into engagement with the uppermost sheet with the conduit open, the port aforesaid closed and suction applied to the cylinder so that the closing of the mouth of the gripper by the sheet seals the cylinder from the atmosphere and enables the suction to build up in the cylinder to effect relative movement between the piston and cylinder to raise the gripper with the rear portion of the sheet, the raised gripper is moved in the forwarding direction over the top of the pile, the valve is then operated to open the port and to close the conduit thereby to open the gripper mouth to atmospheric pressure to release the sheet and to maintain the suction in the cylinder; the gripper is then moved back over the pile, the valve is operated to open the conduit thereby to admit air to the cylinder and the gripper is then lowered to begin a new cycle.

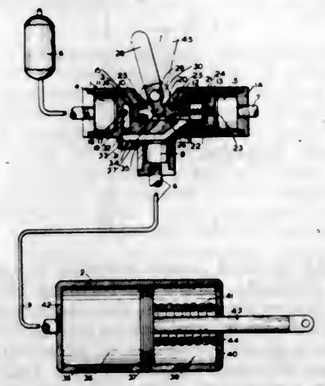
2,591,117
SHADED POLE MOTOR
Earle W. Ballentine, Laguna Beach, Calif., assignor, by mesne assignments, to Redmond Company, Inc., Owosso, Mich., a corporation of Michigan
Application December 29, 1949, Serial No. 135,731
5 Claims. (Cl. 172—278)



1. In an induction motor of the shaded pole type, a squirrel cage rotor, a stator surrounding said rotor and concentric therewith, said stator being symmetrical and being divided into at least four oppositely positioned salient poles which form radial air-gaps with said rotor, with each pole being separated from its adjacent poles by circumferential air-gaps of at least 5% and not more than 15% of the arcuate facial length of any one of said poles, each of said poles having a portion of its face recessed to provide an additional air-gap supplementing said radial air-gaps, the accumulative arcuate extent of said recessed portions of the pole faces being at least 20% of the entire circle with which said pole faces coincide, the reluctance of said circumferential air-gaps being substantially greater than that of said additional air-gaps.

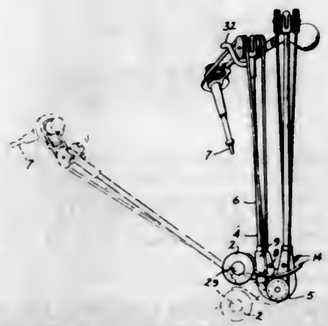
2,591,118
VALVE DEVICE
Arthur J. Bent, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application November 30, 1949, Serial No. 130,259
3 Claims. (Cl. 121—46.5)

1. A fluid pressure control valve device comprising a casing having a fluid pressure supply chamber, a fluid pressure delivery chamber, and a third chamber, a choke communication connecting said delivery and third chamber, a passageway connecting said supply and third chambers, a supply valve element comprising a valve for controlling communication through said passageway and having an area greater than that of said passageway exposed to said third chamber, a spring acting on said valve element with force sufficient to hold said valve seated against pressure of fluid in said passageway but less than the force resultant from pressure of fluid in said third chamber acting on said greater area, a



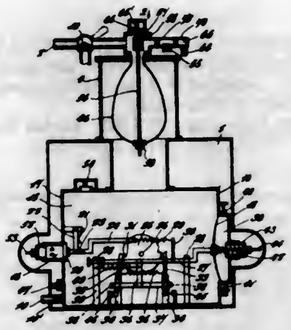
fourth chamber, a restricted vent for said fourth chamber, a release valve connected for movement with and of greater area than said supply valve element controlling communication between said delivery chamber and said vent and subject when seated to atmospheric pressure from said vent which opposes pressure in said delivery chamber acting on said release valve plus pressure in said third chamber acting on said supply valve element, and a manually operative lever for selectively unseating either said supply valve or said release valve.

2,591,119
DENTAL MACHINE CONTROL
Justin Allen Biggs, Jacksonville, Ill.
Application July 6, 1950, Serial No. 172,330
1 Claim. (Cl. 32—26)



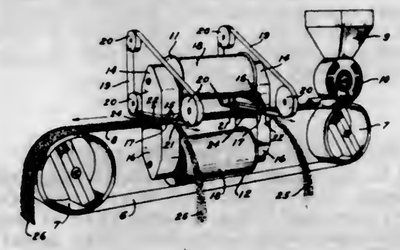
A dental machine in combination with a mercury switch and comprising a jointed extension drill support arm, a dental drill rotatably operative at the free end thereof, a motor for actuating said drill and a cable establishing drill control connection between said motor and said drill, a mercury switch operatively supported at the elbow joint of said drill support arm in position where said arm cannot be extended from a folded position for operation without automatically energizing the drill.

2,591,120
APPARATUS FOR THE CONTROL OF RESPIRATION RESUSCITATION AND ANAESTHESIA
John Henry Blease, Hatch End, England
Application November 8, 1949, Serial No. 126,177
In Great Britain November 11, 1948
9 Claims. (Cl. 128—29)



1. Apparatus for the control of respiration and anaesthesia, comprising an air chamber, means for introducing air under pressure into said air chamber, means located within such air chamber responsive to increasing pressure and movable thereby, valve means actuated by such pressure-responsive means to reduce the pressure within the air chamber to atmospheric pressure after a pre-determined pressure has been built up within such chamber, a second air chamber communicating with such first-mentioned air chamber, a collapsible bag within such second air chamber, an air passage constructed to connect the interior of such collapsible bag with the lungs of the patient, and means for introducing anaesthetic gas or air into such air passage.

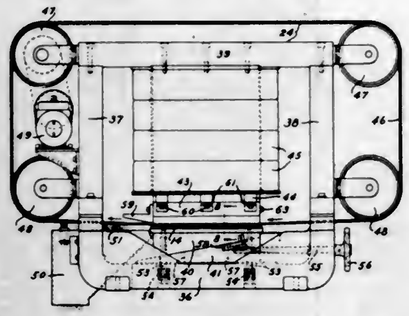
2,591,121
CROSSBELT MAGNETIC SEPARATOR
Karl A. Blind, Thiensville, Wis., assignor to Dings Magnetic Separator Co., Milwaukee, Wis., a corporation of Wisconsin
Application May 10, 1947, Serial No. 747,229
2 Claims. (Cl. 209—223)



1. In a cross-belt magnetic separator, a main conveyor deck constantly movable to transport mixed magnetic and non-magnetic particles in one direction along a definite path, a magnet pole having a flat face extending locally across said path beneath said deck, an auxiliary conveyor deck spaced from the top of said main deck and movable across said path above said flat pole, and a complementary magnet pole above said auxil-

iary deck having a series of at least three parallel asymmetrical depending wedge projections extending across said path and cooperating through equal gaps with said flat pole face to lift magnetic particles from said mixture onto the bottom of the auxiliary deck, one face of each wedge being perpendicular to said decks and the other being inclined downwardly in the direction of advancement of the main deck approximately forty-five degrees.

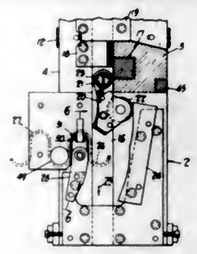
2,591,122
CROSSBELT MAGNETIC SEPARATOR
Karl A. Blind, Thiensville, Wis., assignor to Dings Magnetic Separator Co., Milwaukee, Wis., a corporation of Wisconsin
Application December 3, 1947, Serial No. 789,497
3 Claims. (Cl. 209—223)



1. In a magnetic separator, a continuous magnetic loop having opposite side members firmly interconnected by rigid top and bottom members, a magnetic core suspended from said top member and extending across the major portion of the interior of said loop but being spaced from said bottom member, an energizing coil surrounding said core within said loop, a main mixed material conveyor movable through the space between said core and said bottom member, an auxiliary magnetic material conveyor also movable through said space across and above said main conveyor and being separated from the latter by a magnetic field gap, an upper magnet pole interposed between said core and said auxiliary conveyor, a lower magnet pole interposed between said main conveyor and said bottom member and having a plane lower surface spaced from and inclined toward and along the upper plane surface of said bottom member, and a wedge of magnetic material coacting with said plane relatively inclined surfaces and being adjustable longitudinally of said bottom member to vary the size of the gap between said conveyors.

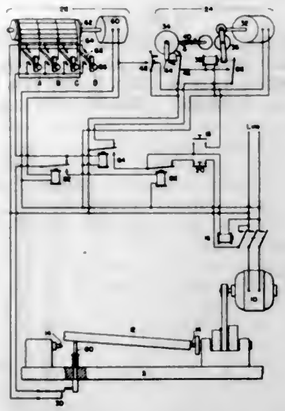
2,591,123
WIRE-STRAIGHTENING FIXTURE
Svend G. Blumensaadt, Beachwood Village, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio
Original application September 2, 1947, Serial No. 771,592. Divided and this application December 22, 1947, Serial No. 793,271
3 Claims. (Cl. 140—147)

1. A wire straightening fixture for straightening the loop of a corrugated wire strip comprising a frame including a supporting surface, vertically shiftable and stationary locating and holding members including locators arranged to be shifted at a right angle to said supporting surface and adapted to axially locate and rigidly hold looped portions of a sinuously corrugated wire strip supported in a flat position on said supporting surface, a slide on said frame arranged to be shifted parallel to the supporting surface at a right angle to the longitudinal axis of a corrugated wire strip located on said surface by said locating and holding members, a stationary wire forming block, a second wire forming block pivotally supported by said slide to swing in the plane of such corrugated wire strip, stationary



cam means on said frame adapted to pivotally shift the pivotally supported forming block and effect in cooperation with the stationary wire forming block by wiping action straightening of the end loop of such corrugated wire strip in its plane when the slide is shifted at a right angle toward the corrugated wire strip, and actuating means coupling said stationary locating and holding members with said slide including cam means for successive actuation of said shiftable locating and holding members and said slide.

2,591,124
APPARATUS FOR PRODUCTION ANALYSIS
Edwin A. Boyan, Sharon, Mass.
Application April 11, 1946, Serial No. 661,312
12 Claims. (Cl. 346—25)



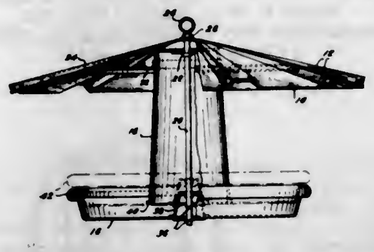
11. Production analysis apparatus for indicating the nature of interruptions in machine operation, comprising means for advancing a record-receiving web at a timed rate of advance, a plurality of marking devices, said devices being selectively actuable by the operator to place on the web marks identifying the causes of machine interruption, a restart circuit in control of machine restarting following an interruption, and connections between the marking devices and the restart circuit for starting the machine upon actuation of a marking device to place a cause-identifying mark on the web.

2,591,125
COMBINATION COMB AND LIQUID DISPENSER
Orville Arthur Braun, Los Angeles, Calif.
Application August 27, 1947, Serial No. 770,792
6 Claims. (Cl. 132—13)



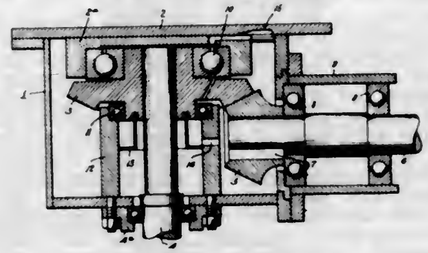
1. In a combination liquid dispenser and comb structure of the type described, a comb having a fluid channel therein extending to a point in proximity to the spacing between adjacent comb teeth, a syringe comprising an outer tubular member and an inner cooperating plunger arranged to force fluid through said channel under pressure developed upon movement of said plunger, a first sleeve member forming a part of said syringe and snugly receiving said tubular member and releasably connected to said comb, a manually operable member slidably mounted in a longitudinally extending external groove in said sleeve member and attached to said plunger to produce movement thereof, and a second sleeve member telescoped over said first sleeve member and releasably connected thereto, said second sleeve member having an internal longitudinally extending groove to receive said manually operable member with said internal and external grooves aligned.

2,591,126
BIRD FEEDER
Luther A. Breck, Jr., Wellesley, Mass., assignor to Bandwagon Manufacturing, Inc., Boston, Mass., a corporation of Massachusetts
Application February 12, 1951, Serial No. 210,593
3 Claims. (Cl. 119—52)



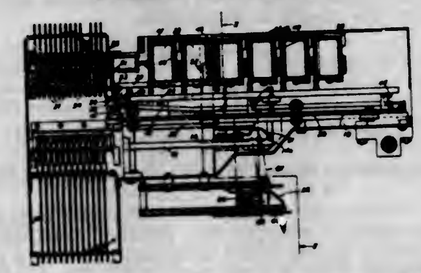
1. A bird feeder comprising, in combination, a central supporting post having a radially extending flange near its upper end, a centrally apertured generally conical canopy resting upon the upper end of said post, a locking device attachable to the upper end of said post through said canopy aperture for locking said canopy thereto, a feed tray having a central opening for said post, attaching means for attaching said tray to said post at either of two levels close to the lower end thereof, and an inverted transparent open mouthed feed reservoir having a central aperture in its inverted bottom to receive said post and suspended on said flange by the rim of its said aperture, said reservoir being so proportioned that said tray when positioned at its upper level will firmly engage the mouth of said reservoir to prevent relative movement of the parts during shipment and said tray in its lower position will be spaced from the same to permit flow of bird feed therefrom.

2,591,127
GEAR BOX
Albert Brewster, Bowling Green, Mo., assignor of one-fourth to John M. Rutter and one-fourth to Frank W. Fitzgerald, Sr., both of Bowling Green, and one-fourth to Chester L. Davis, Perry, Mo.
Application May 1, 1950, Serial No. 159,247
2 Claims. (Cl. 74—417)



1. A gear box assembly comprising in combination a box having a removable lid, said lid carrying on the under side thereof a split-bearing race, a shaft extending through the bottom of said box on the upper end of which is secured a gear, a second shaft extending through one side of said box on the inner end of which a second gear is secured which is in mesh with said first mentioned gear, said first mentioned gear having an upper boss engaging with said split-bearing race, apertures within said first mentioned gear positioned directly under said split-bearing race, said first mentioned gear having a boss on the under side thereof, a cylindrical shaped standard positioned within said box concentrically with said first mentioned shaft and spaced therefrom, a second split-bearing race carried by said standard and intermediate said standard and the boss on the underside of said first mentioned gear, apertures through said standard, an annular member having an upturned rim and said member secured to the inner side of said standard intermediate said apertures and the bottom of said box.

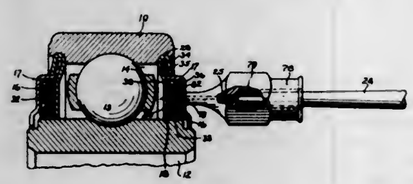
2,591,128
DATA TRANSMITTING MEANS IN RECORD CONTROLLED STATISTICAL MACHINES
Leslie Ernest Brougham, Purley, and John Perrin, Croydon, England, assignors to Powers-Samas Accounting Machines Limited, London, England, a British company
Application March 18, 1947, Serial No. 735,443
In Great Britain March 11, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 11, 1966
8 Claims. (Cl. 101—93)



1. In a machine controlled by records having data denoting index positions and including means for sensing individual index positions of

said records and set-up members associated with said sensing means, apparatus for transmitting data sensed from a record to said set-up members comprising in combination a plurality of intermediate elements between the sensing means and the set-up members, one intermediate element corresponding to each of a plurality of index point positions on the record, each of said intermediate elements being connectable to the means for sensing any one of the index point positions on the record and being responsive to the sensing of the index point position to which it corresponds, means for connecting any one of said intermediate elements to the means for sensing any one of the index point positions on the record, a data transmitting element associated with each of said intermediate elements for actuating a set-up member, a reciprocable carriage cooperating with said intermediate elements and said transmitting elements, means on said carriage for reading the responsive or non-responsive condition of said intermediate elements, and selecting means operative under the control of said reading means to actuate the data transmitting elements corresponding to the intermediate element which are in responsive condition.

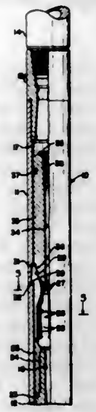
2,591,129
LUBRICATING METHOD
Rodger D. Brouwer, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 25, 1943, Serial No. 473,502
4 Claims. (Cl. 184—1)



1. The method of lubricating an antifriction bearing provided between its race rings with a closure member formed of a resilient imperforate mass of felted fibers, which consists in piercing a small hole through said closure member by a sharp-pointed hollow needle that yieldably presses the fibers aside and passes between the fibers to wipe off the needle and to make for itself a temporary, previously non-existing hole so small that the fibers will resiliently close said hole and again wipe off the needle as the needle is withdrawn from the closure member, and feeding lubricant through said needle into the bearing before the needle is withdrawn.

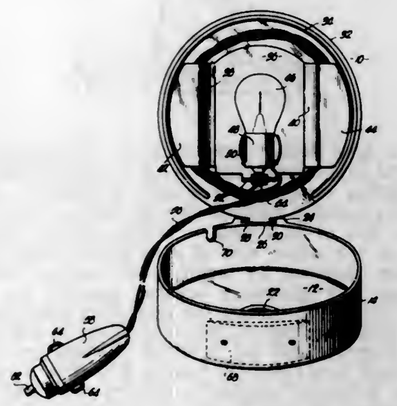
2,591,130
JAR
Cicero C. Brown and Floyd L. Scott, Jr., Houston, Tex.
Application March 24, 1947, Serial No. 736,764
8 Claims. (Cl. 255—27)

1. A jar, comprising, a pair of tubular members telescopically engaged for relative longitudinal movement and adapted to be inserted into a pipe extending into a well bore from the surface, striking abutments carried by said members inter-engageable when said members are in extended position, cooperating latch elements connected with the respective members frictionally engageable when the members are in contracted position, and a holding element independent of said latch elements freely slidable axially in the bore of one of said members by fluid pressure applied from the surface through said pipe into wedging engagement with said latch elements to



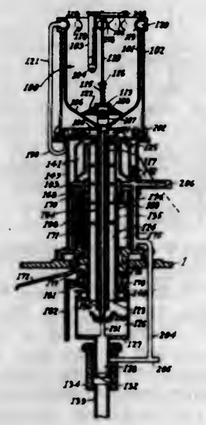
thereby intensify the holding force on said latch elements, said latch elements being releasable from each other by the application of a degree of longitudinal strain between said members which exceeds the holding force exerted on said latch elements by said holding elements to permit jarring action.

2,591,131
PORTABLE ELECTRIC SERVICE LAMP
Emile P. Brus, Kansas City, Mo.
Application May 2, 1949, Serial No. 90,980
1 Claim. (Cl. 240—8.18)



In an electric service lamp, a combination light reflector, electric cord holder and lamp-receiving unit including a flat support; a U-shaped member having a polygonal, flat bight and a pair of spaced legs extending outwardly from one face thereof and diverging as the outermost ends thereof are approached; an outwardly extending flange on said outermost end of each leg respectively; an electrical contact mounting extending outwardly from said face of said bight between said legs; a clip for holding a lamp in engagement with said contact; and means common to the clip and the member for attaching the clip to said one face of the bight and attaching the opposite face of the bight to said support with the flanges spaced from the latter, whereby said flanges and the support are adapted to hold an electric cord in place when coiled about said legs.

2,591,132
COFFEE MAKER
Louis Burgess, Jersey City, N. J.
Original application July 12, 1947, Serial No. 760,599. Divided and this application October 28, 1949, Serial No. 124,063
6 Claims. (Cl. 99—283)

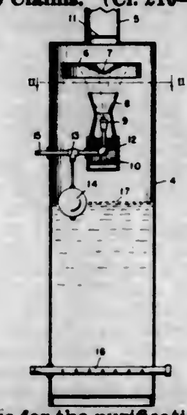


1. In a coffee maker including a centrifuge of the imperforate overflow self-dumping type having an inwardly projecting overflow lip at the upper end thereof and a centrally positioned discharge outlet at the lower end thereof defining an opening of lesser inside diameter than said overflow lip, a receptacle, a rundown tube extending from said receptacle into said centrifuge, a dispenser surmounting said receptacle, a timer, means controlled by said timer for introducing a predetermined amount of water and means controlled by said timer for transferring a predetermined charge of ground roasted coffee from said dispenser into said receptacle, means for comingling said predetermined amount of water with said coffee in said receptacle to form a mixture, and means controlled by said timer for starting said centrifuge in rotation and for arresting the rotation of said centrifuge at a predetermined time, the improvement of means controlled by said timer for introducing a second predetermined amount of hot water into said receptacle following substantially the expiration of the time required for said mixture to run down into said centrifuge and during the time in which said centrifuge is in rotation.

2,591,133
METHOD OF PRODUCING GELATIN DERIVATIVE
Dan H. Campbell, Altadena, Joseph B. Koepfli, San Marino, and Linus Pauling, Sierra Madre Villa, Calif., assignors to California Institute Research Foundation, Pasadena, Calif., a corporation of California
No Drawing. Application May 29, 1950, Serial No. 165,108
8 Claims. (Cl. 260—117)

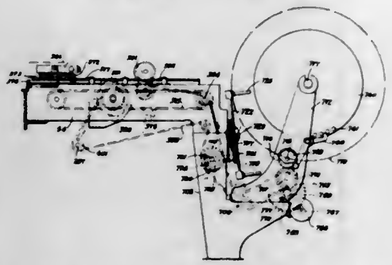
1. A method of manufacturing a gelatin product, which comprises condensing a gelatin solution in water by the addition of a condensation agent selected from the group consisting of carbon suboxide, formaldehyde, acetaldehyde, quinone and glyoxal, terminating the condensation before an irreversible gel has formed, oxidizing the condensed gelatin by the addition of hydrogen peroxide, adding salt to a concentration of approximately 0.9% and adjusting the pH to approximately 7.

2,591,134
METHOD OF AND AN APPARATUS FOR THE AERATION OF LIQUIDS
Svend A. Canarius, Jacksonville, Fla.
Application March 15, 1948, Serial No. 14,926
5 Claims. (Cl. 210—16)



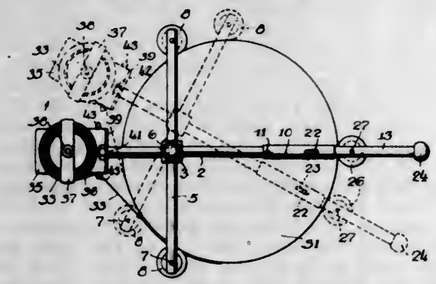
1. Apparatus for the purification of liquids containing oxidizable matter comprising an upright shell having an air vent in its top, a vertically arranged and upwardly opening duct disposed in the upper portion of the shell, said duct being shaped as a Venturi tube and communicating at its lower end with the exterior of the shell, a spray nozzle mounted in the vertical duct coaxially therewith for producing an upwardly directed cone-shaped spray of liquid emerging through the upper end of said duct, said spray entraining a substantial volume of air in moving past said upper end and thereby creating an up-draft of air in said duct, means for supplying the liquid to be purified under substantial pressure to the nozzle, a horizontally disposed baffle a substantial distance above said upper end of the duct and in the path of the cone-shaped spray of liquid and entrained air, said baffle being adapted to effect an intimate mixture and foaming of the liquid and entrained air striking the same resulting in the introduction of oxygen into the liquid and a partial oxidation and release of oxidizable material contained in said liquid, the lower portion of the tank providing a chamber for the liquid falling from said baffle and wherein the liquid collecting therein is allowed to stand for a predetermined retention period resulting in further oxidation of the oxidizable matter contained in the liquid.

2,591,135
PACKET MAKING MACHINE
John Walker Chalmers and Donald Richard Patrick Jackson, London, England, assignors to Molins Machine Company, Limited, London, England
Application June 17, 1946, Serial No. 677,228
In Great Britain June 18, 1945
9 Claims. (Cl. 93—50)



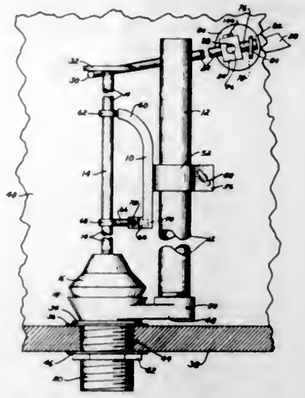
6. In the manufacture of packets having overlapping flaps adapted to be secured together by means of adhesive, apparatus for securing such overlapping flaps of a packet, comprising a rotatable wheel having pockets of a size and shape adapted to receive and accurately hold in desired shape and locate partly finished packets, the pockets being open on a side of the wheel at which such flaps are located, a side plate located at such side of the wheel and adapted to press against such overlapping flaps of a packet in a pocket, and means to heat said plate whereby the adhesive on such flaps is dried while the overlapping flaps are accurately held in desired position by the pocket, wherein the plate is supported for movement relative to the wheel to effect ironing of the overlapping flaps thus assisting in obtaining the desired shape to the finished packet, wherein the plate is made discontinuous so that the pockets during a part of the rotation of the wheel are open at both sides, and comprising an ejector device for removing a finished packet from the pocket, said ejector comprising a rotatable member adapted to rotate in synchronism with the wheel and having fingers adapted to pass laterally through the pocket when the latter is open at both sides and eject the packet.

2,591,136
CAN SEALER
Leo P. Cleary, Chicago, Ill., and Clifford G. Farr, Abilene, Tex., assignors to Wilson & Co., Inc., a corporation of Delaware
Application June 24, 1948, Serial No. 34,868
6 Claims. (Cl. 216—20)



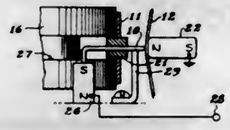
1. A can sealer for a circular can comprising a frame, three spaced rollers mounted on said frame, said rollers being adapted to be circumferentially spaced about the side wall of the circular can top so that two rollers are on one side of a diameter of said can top and the other roller is on the other side of said diameter, a spring urging the one said roller towards the said other two rollers, tape dispensing means mounted on said frame, and a handle on said frame to facilitate rotation of said can sealer around the can top to which it is applied, whereby tape from said tape dispensing means may be applied around the circumference of the can and can top.

2,591,137
GUIDE MECHANISM FOR TANK BALLS
Steve Cole, North Platte, Nebr.
Application July 31, 1950, Serial No. 176,810
2 Claims. (Cl. 4—57)



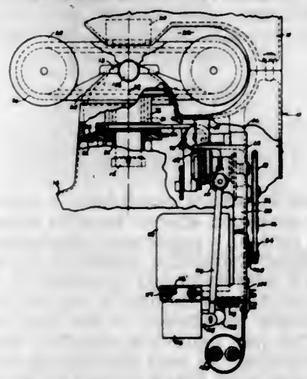
1. In a flush tank valve mounting, the combination which comprises a base having upwardly extended walls, one of said walls having an opening therein spaced from the upper end thereof, an outlet nipple having a valve seat in the upper end mounted in the base of the tank, a vertically disposed overflow tube carried by the nipple, said tube being spaced from and parallel to the axis of the nipple, a vertically positioned substantially U-shaped yoke having upper and lower outwardly extended horizontal arms with an eye on the outer end of the upper arm positioned in the tank, said lower arm of the yoke having an opening extended inwardly from an end thereof, a stud having an eye on one end slidably mounted in the opening in the end of the lower arm of the yoke, a banjo set screw threaded in the lower arm of the yoke and positioned to engage the stud for securing the eye of the stud in alignment with the eye on the end of the upper arm of the yoke, a clamp by which the yoke is carried for adjustably mounting the yoke on the overflow tube with the eyes on the ends of the arms thereof aligned with the axis of the outlet nipple, a valve stem having a bulb on the lower end slidably mounted in the said eyes with the bulb positioned to coact with the valve seat of the nipple, a disc positioned on the upper end of the valve stem, an operating arm having an arcuate end positioned in the tank, an internally threaded bushing positioned in said opening in a wall of the tank, a nut threaded into the bushing from the outside of the tank for securing the bushing in position in the said wall, a shaft having a flush lever on the end extended from the tank journaled in the nut and bushing, a block integral with said operating arm adjustably mounted on the end of the shaft extended into the tank thereby pivotally mounting the operating arm in the wall of the tank with the arcuate end of the arm positioned under the disc on the upper end of the valve stem, means limiting the travel of the said operating arm, means adjusting the position of the operating arm in relation to the pivotal mounting means, and a flush lever positioned on the exterior of the tank for actuating the operating lever through the pivotal mounting means.

2,591,138
FACSIMILE APPARATUS EMPLOYING A STYLUS
Austin G. Cooley, New York, N. Y., assignor to Times Facsimile Corporation, New York, N. Y., a corporation of New York
Application February 15, 1947, Serial No. 728,865
7 Claims. (Cl. 346—74)



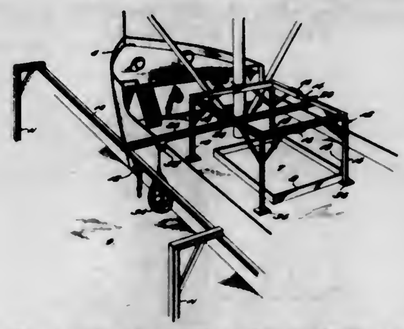
4. In a facsimile recorder of the type employing electro-sensitive recording paper, a plurality of magnetizable stylus needles, each having a straight, elongated shank portion of uniform cross-section, a movable carrier provided with equally spaced tubular holders closely fitting the shank portions of the stylus needles for slideably supporting said needles for movement axially thereof towards the surface of the paper, means for supporting and advancing the paper in operative relationship to said stylus needles and magnetic means located on the opposite side of said paper and opposite the record-receiving area of the paper for attracting the magnetizable stylus needles and insuring substantially uniform contact between the stylus needles and the paper.

2,591,139
FILM HANDLING APPARATUS FOR PROJECTION DEVICES
David I. Critoph, Snyder, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application November 12, 1947, Serial No. 785,284
13 Claims. (Cl. 88—24)



1. In a projection device having a pair of film reel supporting spindles adapted to be actuated by a driving element, the combination of a drive shaft, a reversible electric motor operatively connected to said drive shaft for rotating same in either direction, a pair of driving members in spaced relation on said shaft, one of said members being secured to said shaft for rotation therewith and the other of said members being rotatably mounted thereon, a shiftable member rotatably carried by said shaft between said driving members and having power transmitting means carried thereby and arranged to drive said element, said shiftable member being movable to different positions upon said shaft so as to be selectively rotated by either of said driving members, gearing connected to said drive shaft and to said rotatably mounted driving member and arranged to cause the latter to rotate at a different speed than that of the drive shaft during the actuation thereof by said motor, yieldable means normally urging said shiftable member toward one of said driving members for establishing a driving connection therebetween, and operator controllable means for causing said shiftable member to move axially toward the other of said driving members for establishing a driving connection therebetween.

2,591,140
OVERSIDE CARGO TRANSPORTER
Charles E. Dougherty, New York, N. Y., and Edward E. Minor, Baltimore, Md.
Application July 11, 1946, Serial No. 682,976
3 Claims. (Cl. 214—14)

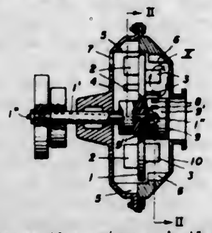


3. In combination with a ship including a deck with an alley leading to the ship's hold, apparatus to facilitate lifting a cargo from the hold and lowering cargo into the latter comprising a rig mounted on the deck, the rig embodying supporting standards positioned around said alley, extensible beams mounted on the standards and spanning the latter, means for transporting cargo to and from the rig including a monorail carrier, and a clamp assembly for securing the monorail to a parallel pair of said beams, said assembly permitting a sliding movement of the monorail therein when the beams are extended in the direction of the monorail.

2,591,141
ROTARY BEATER MILL WITH CYLINDRICAL SEPARATOR STRUCTURE ADJACENT THE MILL OUTLET
Jean Dulait, Brussels, Belgium
Application March 1, 1949, Serial No. 78,977
In Belgium March 5, 1948
6 Claims. (Cl. 241—39)

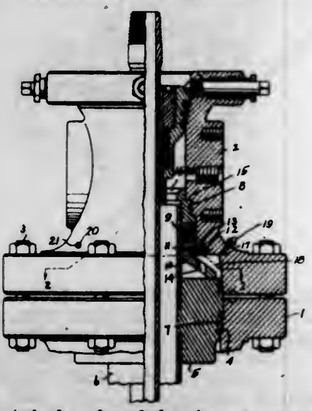
1. In a crusher, the combination of a stator, a rotor rotatably mounted in said stator, beaters on said rotor, an inlet in a side wall of said stator, an outlet in another side wall of said stator, the lateral ends of said beaters on the outlet side of

said stator being spaced from the internal wall of said stator by a horizontal clearance forming a path for downward air and material recirculation, and a hollow outlet member communicating with said outlet, said outlet member being in the shape of a hollow cylinder situated coaxially with



said rotor, nearer the rotor axis than said beaters, and being provided with longitudinal openings extending between two diametrical planes passing respectively through the outer and the inner ends of said beaters leaving an unapertured zone in said hollow cylinder the width of which is at least equal to that of said horizontal clearance.

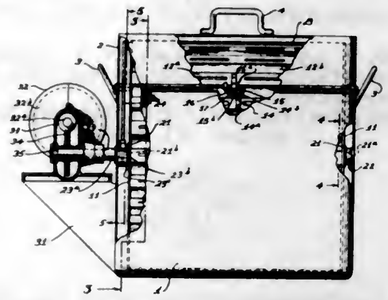
2,591,142
WELLHEAD
John E. Eckel, Houston, Tex., assignor to Oil Center Tool Company, Houston, Tex., a corporation of Texas
Application April 16, 1948, Serial No. 21,384
3 Claims. (Cl. 166—14)



1. In a tubular head having a recess in its lower portion and having a well casing extending upwardly into the bore of the head opposite said recess a packing assembly for sealing about a casing and adapted to be located within the recess, said assembly comprising, a compression ring having an external groove, a seal ring formed of resilient material on said compression ring, a locking ring extending radially inwardly into said groove and having a thickness less than the width of the groove, means for securing said locking ring to the head, whereby the packing assembly is retained against displacement from the lower end of the head, said compression ring being downwardly flared and being provided with an opening for access to said securing means.

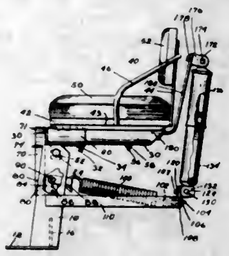
2,591,143
CLOTHES-WASHING MACHINE
Asger Ellersgaard, Los Angeles, Calif.
Application October 22, 1945, Serial No. 623,648
1 Claim. (Cl. 68—140)

In a washing machine having a receptacle for containing washing fluid and a cylindrical clothes basket disposed within the receptacle and having trunnions at its ends, one of said trunnions having a radially extending detent recess in a side thereof, means for mounting said basket for rotation in said receptacle, comprising: a first socket member on a wall of the receptacle for receiving one of the trunnions of said basket; a second socket member rotatable on the opposite wall of the receptacle and adapted to receive the recessed trunnion of said basket; a latching member carried by and pivoted on said second



socket member and adapted, when pivoted in one direction, to overlie said recessed trunnion to retain the same in said second socket, said latching member having a resilient arm; and a pin formed integrally with said arm and normally urged toward said recessed trunnion in a direction radially thereof due to the inherent resiliency of said arm, said pin being engageable in said detent recess for keying said recessed trunnion to said second socket member for rotation therewith.

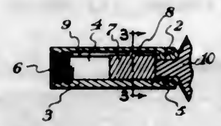
2,591,144
RESILIENT SUPPORT FOR TRACTOR SEATS
William A. Fleischer, Grand Island, Nebr., assignor to Fleischer-Schmid Corporation, Columbus, Nebr.
Application July 19, 1947, Serial No. 762,088
3 Claims. (Cl. 155—54)



1. A seat mounting comprising a stand having upwardly extended spaced parallel plates, a seat having a centrally positioned longitudinally disposed tubular mounting member on the under surface, an arm extended downwardly from the forward end of said tubular mounting member, a bearing sleeve positioned on the forward end of the said tubular mounting member, means pivotally mounting the said bearing sleeve between the upper ends of the said parallel plates, horizontally disposed bars extended rearwardly from the said parallel plates, resilient means connecting the rear ends of the horizontally disposed bars to the lower end of the arm extended downwardly from the tubular mounting member of the seat, a centrally positioned draw bar extended upwardly from the back of the seat, and a pair of telescoping cylinders having resilient compressible means therein connecting the upper end of the draw bar extended upwardly from the back of the seat to the rear ends of the said horizontally disposed bars

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2,591,145
DISPENSING ATTACHMENT FOR COLLAPSIBLE TUBES, INCLUDING A RECIPROCATING PISTON
Kenneth A. Garvey, Tulsa, Okla.
Application October 20, 1949, Serial No. 122,457
1 Claim. (Cl. 222—249)



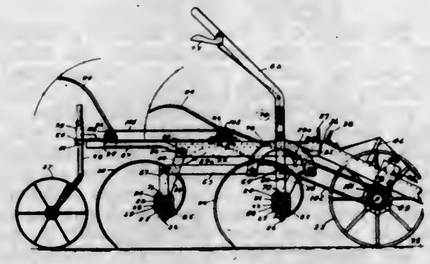
The combination with a collapsible tube having a threaded neck, of a dispensing attachment for said neck whereby a predetermined bulk of material may be dispensed from the collapsible tube, said dispensing device comprising a tubular member having interior threads at both ends and a chamber extending axially therethrough, one end of said tubular member being threaded on the neck, a reciprocating piston within said tubular member, said piston being limited in its inward movement by engagement with the threaded neck, the other threaded end of said tubular member forming means whereby said tubular member may be turned end for end and threaded on the neck so a further filling of the chamber of the tubular member against the end of the piston will eject the previous material from the tube, one side of the piston intermediate its ends being provided with a radial lug, said lug being slidably mounted in a longitudinally extending channel in the inner periphery of the sleeve, the ends of said channel forming limiting means cooperating with the lug for limiting the longitudinal movement of the piston within the sleeve on its outward movement.

2,591,146
NEEDLE THREADER
Roy E. Gearhart, Kansas City, Mo., assignor of one-half to Charles E. Hose, Kansas City, Mo., and one-half to Earl A. Hose, Marietta, Ga.
Application February 28, 1949, Serial No. 78,716
5 Claims. (Cl. 223—99)



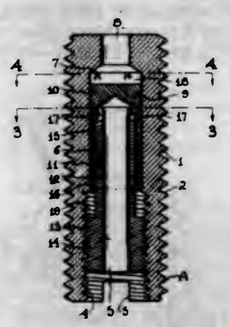
1. A needle threader comprising a head having a planar surface, a pair of elongated resilient planar blades normally disposed beneath the surface of said head, means for extending said blades above the surface of said head, said head having a slot formed in the surface thereof substantially radially related to said blades and lying in alignment with the major cross-sectional axes of said blades, and a stop at the inner end of said slot whereby a needle inserted longitudinally in said slot will be longitudinally positioned with its eye directly over said blades, the upper ends of said blades being tapered away from said stop.

2,591,147
ROTARY TOOTH CLEANER
Clarence A. Gooley and Edward L. Gooley, Harrington, Wash.
Application August 2, 1945, Serial No. 608,411
3 Claims. (Cl. 97—194)



1. A spring tooth harrow comprising a frame, wheels supporting the frame, tooth carrying shafts suspended from the frame, spring teeth carried by the shafts, trash removing members rotatably mounted on the frame in position to rotate between the teeth and means connecting one of the wheels to the members whereby to rotate the trash removing members as the wheel rolls, said connecting means comprising shafts carrying said members and journalled in the frame, sprocket wheels on the shafts and said wheel and sprocket chains connecting said sprocket wheels.

2,591,148
PRESSURE RESPONSIVE VALVE
Donald C. Green, Russell, Ohio
Application August 8, 1947, Serial No. 767,393
5 Claims. (Cl. 251—119)



1. A fluid flow controlling valve structure comprising: a housing having an elongated generally cylindrical passageway therein, open at one end to provide a fluid outlet; a tube extending longitudinally within the tubular passageway and having a free portion at one end and open at that end; and joined at the other end to the passageway wall; the tube interior opening through said joined end and providing a fluid inlet; a tubular element having a tubular resilient wall closed at one end; the resilient wall telescoped within the said passageway and having restricted wall clearance therewith, and being telescoped over the free end portion of said tube and having restricted wall clearance therewith; the closed end of the tubular element having flow clearance with the said open end of the tube therewithin; and stop means preventing endwise displacement of the tubular element from its said telescoped position.

2,591,149

METHOD OF COATING MINERAL GRANULES

Clinton Grove, Basking Ridge, N. J., assignor to Central Commercial Company, Cook County, Ill., a corporation of Illinois

No Drawing. Application April 21, 1948, Serial No. 22,493
3 Claims. (Cl. 117—100)

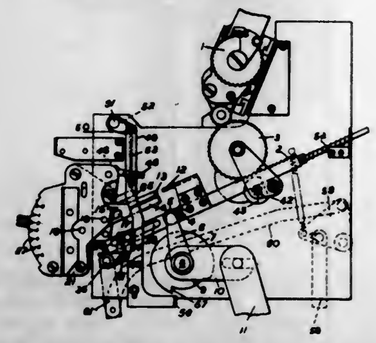
1. The method of treating mineral granules to form on each individual granule an insoluble color-bearing coating which is characterized by its affinity for asphalt and possesses non-blooming properties, which method comprises completely coating each individual granule with an aqueous dispersion of sodium silicate, pigmenting material, and aluminum fluoride, the aluminum fluoride being present in an amount sufficient to partially react with said sodium silicate at temperatures ranging from 450° F. to 650° F., heating the coated granules to the temperatures aforesaid to partially react the aluminum fluoride with the sodium silicate, whereby the sodium silicate gels to a film which resists abrasion and retains the pigmenting material on the granules, cooling the coated granules to a temperature of approximately 200° F., applying to the treated granules while they are at the latter temperature an aqueous solution of an insolubilizing agent selected from the group consisting of aluminum chloride, aluminum nitrate, ferric chloride and magnesium chloride to completely insolubilize the sodium silicate, and aerating the granules so treated to evaporate the water therefrom.

2,591,150

PAPER FEEDING MECHANISM FOR STATISTICAL MACHINES

Sidney Robert Haines, West Norwood, London, England, assignor to Powers-Samas Accounting Machines Limited, London, England, a British company

Application November 7, 1950, Serial No. 194,458
In Great Britain November 8, 1949
9 Claims. (Cl. 235—61.9)



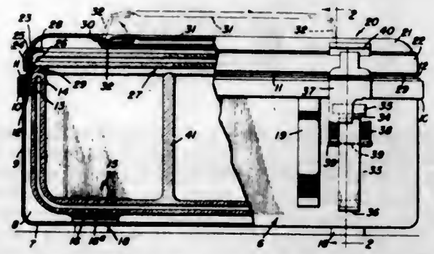
1. In a record card controlled statistical machine paper feeding mechanism comprising a driving member which during its idle movement is caused to follow the movement of an actuating member having a constant stroke until arrested by an adjustable control-stop placed in its path and during the return movement of the actuating member is picked up and driven positively thereby to effect a feed stroke, characterized in that two or more control-stops are independently settable from an inactive position to one of a plurality of predetermined active positions each to arrest the driving member during its idle movement at a predetermined position whereby the mechanism may be set to feed paper by a predetermined number of line spaces at each machine operation, the actuating member being normally positioned to co-operate with a selected one of said control-stops and locating means being operable to condition the actuating member for co-operation with another control-stop only during a machine cycle during which a predetermined function of the machine is being performed.

2,591,151

VACUUM TYPE FOOD CONTAINER

James P. Hansen and Francis A. Wilmot, Los Angeles, Calif.

Application April 26, 1949, Serial No. 89,746
4 Claims. (Cl. 206—4)



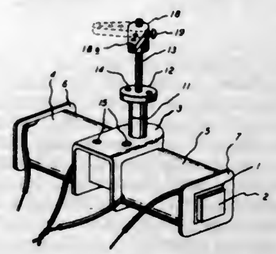
1. A Thermos-type food container for use in connection with a lunch kit comprising a casing embodying bottom, side, and end walls, a vacuum container fitted telescopically into said casing, yieldable cushioning springs interposed between the bottoms of said casing and container, said container being open at its top, gasket means attached to and surrounding the top portion of said container and having self-adjusting sliding contact with the corresponding portion of said casing, closure means for said open top, said closure means embodying a cover including a vacuum lid provided with a marginal gasket in direct contact with said first-named gasket and affording a yieldable seal between the closure means and container, and a plurality of closure tensioning, fastening and gasket compressing and binding devices, each device embodying a latch lever fulcrumed on said casing, a resilient link hingedly connected at one end with said latch lever, means on said closure means for slidably attaching the other end of said link to said closure means, and keeper means fixed on said casing for latching said lever in a closed position.

2,591,152

SWITCH ACTUATOR FOR MODEL RAILROADS

Oscar C. Hewett, Fort Worth, Tex.

Application April 29, 1946, Serial No. 665,691
1 Claim. (Cl. 246—231)



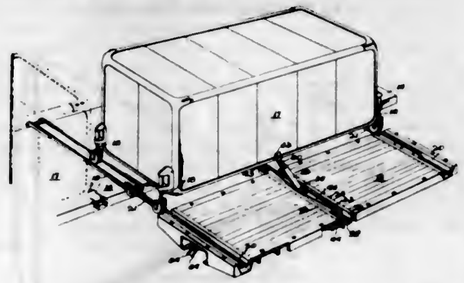
An actuator for a model railroad switch to be mounted on the surface of a table, said actuator comprising a mounting bracket adapted to be secured to the lower surface of said table, a solenoid supported by said bracket, a flat bar armature forming a part of said solenoid and slidably mounted therein, a V-shaped groove in said armature, said groove including laterally extending portions at the outer ends thereof, a vertical shaft extending upwardly above said armature and adapted to extend upwardly above the upper surfaces of said table, bearing means rotatably supporting said shaft, an arm secured to the lower end of said shaft and engaged by said groove, and an upper arm mounted on said shaft above said table top adapted to be operatively connected with said model railroad switch.

2,591,153

SHIFTING BOLSTER TRANSFER MECHANISM

William C. Hodges, Redwood City, Calif., assignor to Hodges Research and Development Company, San Francisco, Calif., a corporation of California

Application July 22, 1948, Serial No. 40,103
12 Claims. (Cl. 214—83.12)



1. In a transfer mechanism, a channel member, an extension member mounted for reciprocation in said channel member, means for imparting reciprocating movement to said extension member mounted in and adjacent to each end of said channel member, an endless flexible element mounted for free movement on said extension member, means for holding said flexible element secured to and adjacent each end of said channel member, and means for connecting said flexible element to the load to be transferred.

2,591,154

METHOD OF MAKING A TEMPLE FOR OPHTHALMIC MOUNTINGS

George R. Hoffmaster, Esterly, Pa., assignor to Willson Products, Inc., Reading, Pa., a corporation of Pennsylvania

Application March 11, 1950, Serial No. 149,198
2 Claims. (Cl. 29—20)



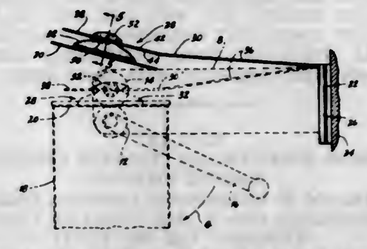
1. A method of making a temple for ophthalmic mountings from a single length of cable comprising a core having spirally wound thereabout a layer of wire, said method comprising coating the forward end portion of said spirally wound wire with metal to provide a substantially smooth, solid cylindrical surface, then drawing both the coated and uncoated portions of said spirally wound wire throughout substantially the entire length of the cable with the exception of the extreme forward end portion of the coated portion, then flattening, trimming and piercing said extreme forward end portion of the cable, and finally bending the extremity of the uncoated and relatively flexible rear end portion so as to conform to the shape of the ear of the wearer.

2,591,155

CAN OPENER ATTACHMENT

Herbert H. Horstmann, Alton, Ill.

Application March 19, 1949, Serial No. 82,351
3 Claims. (Cl. 30—124)



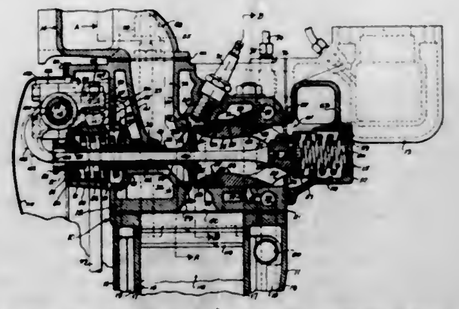
1. In a can opening device of the type described which includes a tapered mounting plate adapted to be positioned in a wedge-shaped wall bracket to support said device, an attachment for automatically preventing the severed top of a can from entering the can from which it was severed, said attachment comprising a tapered panel interposed between said wall bracket and the said mounting plate, a pair of vertically spaced alined forwardly projecting protrusions formed in said panel, a length of resilient wire terminating at one end in a vertically disposed depending portion and at its other end in an elongated loop portion, and a suction cup including a concave body portion, a reduced neck portion, and a head portion, the vertically disposed depending portion of said wire being adapted to pass through the protrusions aforesaid whereby to rotatably support the wire member, the loop portion of said wire being adapted to rotatably and slidably support the suction cup aforesaid.

2,591,156

VENTURI INTAKE VALVE

William J. Huber, Detroit, Mich., assignor to Mell A. Bolton, Berkley, Mich.

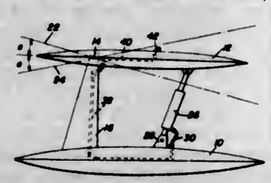
Application March 10, 1950, Serial No. 148,907
5 Claims. (Cl. 123—79)



1. In an internal combustion engine with a cylinder bore and a piston shiftable therein, a cylinder head having an arch-shaped combustion chamber extending upwardly from said cylinder

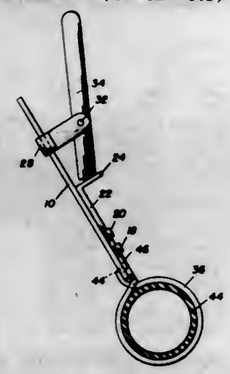
bore, a valve bore disposed transversely of said combustion chamber and communicating therewith, intake and exhaust passageways branching off from said valve bore and combustion chamber, said exhaust passageway having an annular valve seat at its junction with said combustion chamber, an intake sleeve valve reciprocably mounted in said valve bore and movable into and out of said combustion chamber, an igniter in said combustion chamber, an exhaust poppet valve reciprocably mounted in said cylinder head coaxial with said valve bore, said poppet valve on one side engaging said valve seat and on its other side engaging said sleeve valve, said valves having coaxial telescoping valve stems, resilient members engaging and urging said valves into engagement with one another and with said seat, and valve actuators operatively connected to a moving part of said engine in timed relationship therewith and separately engaging said valve stems.

2,591,157
METHOD AND APPARATUS FOR PRODUCING VAPOR TRAILS
Harold D. Hutchinson, Gardena, Calif.
Application June 9, 1950, Serial No. 167,077
5 Claims. (Cl. 40—127.1)



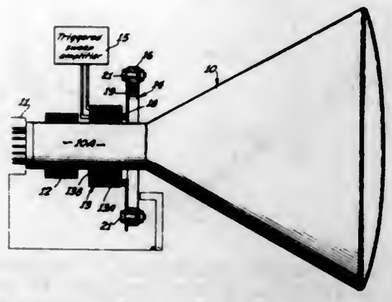
1. The process of artificially producing vapor trails for sky writing comprising the steps of passing an airfoil through the air creating a low pressure region behind the airfoil causing the adjacent air to expand adiabatically into the low pressure region, thereby lowering the heat content of the air in said region and thereby causing the liquid content of said region to be reduced in heat content below the freezing point, and spraying water behind the airfoil and in the region to freeze.

2,591,158
WIRE BENDING AND CLENCHING TOOL FOR HOSE CLAMPS
Jerry J. Jelinek, Milwaukee, Wis.
Application December 3, 1948, Serial No. 63,272
1 Claim. (Cl. 81—9.3)



A wire bending and clenching tool comprising an elongated base member provided with apertures adjacent one end thereof adapted to receive the free ends of the limbs of a U-shaped wire, an L-shaped bar slidingly adjustable on said base member, said bar having a long leg and a short leg, said long leg having an arcuate recess in its free end adapted to receive the bight portion of said U-shaped wire, means on said base for assembling and guiding said L-shaped bar on said base member, bracket means adjustably embracing said base member and having upstanding lugs, and a lever arm pivoted for movement intermediate its ends between said lugs, one end of said lever arm being adapted to bear and exert end-thrust pressure against said short leg, whereby to forcibly urge the recessed end of the long leg against the bight of said U-shaped wire.

2,591,159
MAGNETIC MEANS FOR PRODUCING COMPENSATIONS AND OTHER EFFECTS IN A CATHODE-RAY TUBE
Norbert G. Kabuss, Monterey Park, Calif., assignor to Gilfillan Bros., Incorporated, Los Angeles, Calif., a corporation of California
Application May 29, 1950, Serial No. 165,000
12 Claims. (Cl. 313—76)

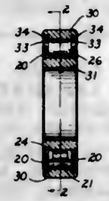


1. In combination, a cathode ray tube having associated therewith quadraturely acting beam deflecting means to deflect the cathode ray beam in said tube, and a plurality of adjustably supported magnet pairs, said magnet pairs being supported for movement as a unit and interacting with each other to produce a concentrated resultant magnetic field which acts on said beam, and means adjustably supporting said magnet pairs to act upon the cathode ray beam after it has initially been acted upon by said beam deflecting means with the axis of magnetization of one magnet of a pair being fixed in position with respect to the axis of magnetization of the other magnet of the same pair.

2,591,160
ROLLER BEARING AND MANUFACTURE THEREOF
Rudolph R. Kilian, Baldwinsville, N. Y., assignor to Rollway Bearing Company, Inc., Syracuse, N. Y., a corporation of New York
Application December 1, 1947, Serial No. 788,987
5 Claims. (Cl. 308—217)

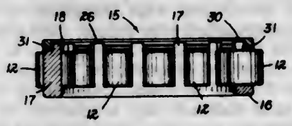
1. The method of manufacturing a retainer of predetermined circumference for a roller bearing which includes the steps of punching spaced holes in a strip of sheet metal to form a blank having rim portions connected by spaced web portions defining pockets therebetween for the reception of rollers and with said rim portions extending at each end beyond the adjacent one

of said web portions, forming said blank into cylindrical shape, autogenously welding together the abutting ends of said rim portions under controlled conditions of heat and pressure providing said predetermined circumference after said welding, and then flaring said rim portions radially outwardly relative to said web portions to stiffen said retainer and to assure a substantially cylindrical configuration throughout said web portions.



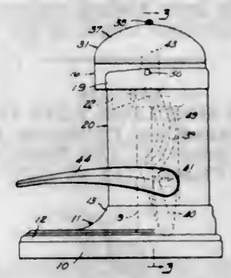
4. A roller bearing retainer of the character described formed from a flat strip stock and comprising a pair of axially spaced coaxial rim portions, a plurality of web portions connecting said rim portions and defining a cylindrical shape, said web portions being angularly spaced to form pockets therebetween for the reception of rollers, said rim portions being flared in radially outwardly diverging relation with respect to said web portions at a relatively small angle with respect to the central axis of said retainer to stiffen said retainer in said cylindrical shape, each said rim portion having the ends thereof autogenously welded together in abutting relation and with the welded joint therebetween flared integrally with the remainder of said flared rim portion, and lips on said web portions formed inwardly thereof to provide guiding surfaces for rollers in said pockets.

2,591,161
RETAINER FOR ROLLER BEARINGS
Rudolph R. Kilian, Baldwinsville, N. Y., assignor to Rollway Bearing Company, Inc., Syracuse, N. Y., a corporation of New York
Application May 22, 1948, Serial No. 28,681
4 Claims. (Cl. 308—217)



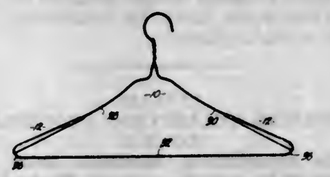
1. A roller bearing retainer of the character described comprising a body member including a closed annular portion, a plurality of guide fingers integrally formed with said annular portion and extending axially therefrom in circumferentially spaced relation to form pockets for receiving rollers therebetween, a closed ring member adapted to be received over the ends of said fingers opposite said annular portion of said body to close the ends of said pockets, said ring and each said finger including portions adapted to cooperate in axially and radially overlapping relation for locking said members together, said fingers being resiliently deformable to provide for relative movement of said members into assembled relation, said radially overlapping portions of said members having complementary beveled surfaces cooperating in relative camming engagement to effect firm retention of said members in assembled relation, the radial dimensions of said overlapping portions at either side axially of said beveled surfaces being correlated to provide radial clearance between said fingers and said ring at either side axially of said beveled surfaces assuring firm camming engagement of said beveled surfaces.

2,591,162
FRUIT JUICER
Paul J. Kircher, Plainville, N. J., assignor to Landers, Frary & Clark, New Britain, Conn., a corporation of Connecticut
Application October 19, 1946, Serial No. 704,494
10 Claims. (Cl. 100—41)



1. A fruit juicer comprising a frame, a stationary squeezing member mounted on the frame, a second squeezing member, and means for mounting said second squeezing member in cooperating relationship with the stationary squeezing member and for bringing said members together in a substantially straight line manner comprising a manually operable actuating arm pivotally mounted on the frame, a toggle connection between said actuating arm and the second squeezing member comprising a pair of pivotally connected arms on each side of the member, one of said arms being adapted to be pivoted by the actuating arm and the second of said arms being pivotally connected to the second squeezing member, and guide means for said second arm comprising an arcuate guideway and a cooperating guide member on the arm and frame.

2,591,163
PADDING ATTACHMENT FOR GARMENT HANGERS
Jerome S. Kivett, Kansas City, Mo.
Application October 10, 1949, Serial No. 120,531
1 Claim. (Cl. 223—92)



For a wire garment hanger having a normally horizontal stretch, an inclined length, and an arcuate end portion, a garment protector comprising an elongated, dish-shaped body of resilient material adapted to overlie said inclined length of the hanger and having a flat top wall, a continuous downturned flange provided with a notch at one end thereof for receiving said inclined length of the hanger, and an arcuate portion at the opposite end of the body conforming in shape to and engaging said arcuate end portion of the hanger; a pair of spaced clips depending from and integral with said top wall adjacent the notch; a second pair of clips depending from the top wall and integral therewith

adjacent said opposite end of the body; and a pair of spaced portions interconnecting the second pair of clips and said arcuate portion of the body and embracing said arcuate end portion of the hanger for holding the body against rotative movement on said inclined length of the hanger, said clips being provided with opposed shoulders adapted to underlie said inclined length of the hanger for holding the same biased against the lowermost face of said top wall of the body, the shoulders on the second pair of clips adapted to engage the arcuate end portion of the hanger to cooperate with said arcuate portion of the body in holding the body against reciprocable movement on said inclined length of the hanger.

2,591,164
REMOVABLE SHOULDER REST FOR VIOLINS
Markus Klein, Pittsburgh, Pa.
Application August 21, 1950, Serial No. 180,554
5 Claims. (Cl. 84—280)



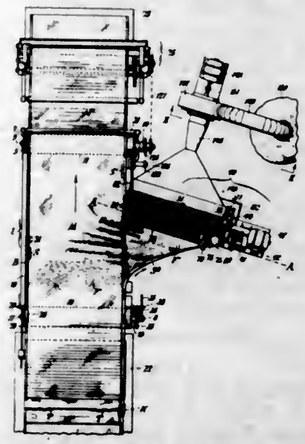
1. A shoulder rest for a violin, including a bridge member to be removably held against a rear portion of the bottom plate of the violin, said bridge member including a heel member and a toe member projecting therefrom to engage said bottom plate and to space the major portion of said bridge member from said bottom plate, said heel member being adapted to engage said bottom plate at a substantially point contact, and said toe member being adapted to engage said bottom plate along a line contact, and said bridge member being adapted to rock on said bottom plate upon the application of pressures by a violin player.

2,591,165
DEVICE FOR NULLIFYING COMBINATION LOCKS
Natalio Krasnansky, Mauricio Sulik, Pablo Eliscovich, and Juan Levy, Buenos Aires, Argentina
Application February 14, 1947, Serial No. 728,620
In Argentina December 31, 1946
5 Claims. (Cl. 70—314)



1. In a combination lock of the type described comprising a frame, a plurality of movable arms in said frame projecting from the frame and which when arranged in a predetermined code position permit the displacement of a lock element, a code nullifying assembly in structural and functional relationship with said projecting arm and including a lid pivotally mounted on the frame, and means on the frame operable by said lid to contact and move the arms into alignment and thereby out of the combination when the lid is closed during the later part of the closing movement thereof.

2,591,166
METHOD OF AND APPARATUS FOR RECOVERING TEMPORARY LOOP-SUSTAINING FILLING WEFT FROM LOOP PILE FABRICS
William Rollin Keen, Media, and William R. Hewton, Philadelphia, Pa., assignors to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application November 22, 1950, Serial No. 196,998
36 Claims. (Cl. 28—17)



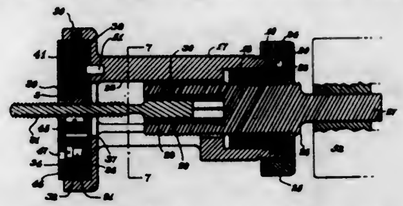
1. A method of removing temporary loop-sustaining weft from loop pile fabric, said method comprising the steps of pulling the component strands of the filling weft laterally of the fabric out of the associated pile loops; and concurrently cutting said strands into a plurality of segments.

7. A method of recovering temporary loop-sustaining filling threads from loop pile fabric in which said threads are anchored in an auxiliary selvage strip along one edge of the fabric, said method comprising the steps of pulling said threads out of the pile loops; concurrently cutting said threads into a plurality of segments; and separately collecting the cuttings and the auxiliary selvage strip.

2,591,167
LAPPING THREAD RING GAUGE
Alvin E. Langmaid, Bloomfield, and Robert A. Bloom, Hartford, Conn.
Application September 23, 1948, Serial No. 50,812
9 Claims. (Cl. 51—32)

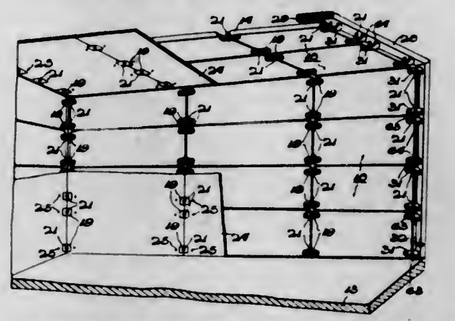
6. Mechanism for producing by a lapping operation, thread forms upon a plurality of circular ring sectors with the threads formed on each sector correlated to the threads formed on the other sectors whereby the several sectors when suitably secured in a body member form a thread ring gauge, said mechanism including a chuck, a threaded lapping tool extended longitudinally through the chuck and coaxial therewith, means

for rotating the lapping tool relative to the chuck, said chuck having channels therein for guiding respective circular ring sectors in definite radial paths while said sectors are in coplanar relation,



a follower shoe confined in each channel for radial movement only, each shoe being engageable with a circular ring sector interposed between said shoe and the lapping tool, and means for independently urging each shoe toward the lapping tool.

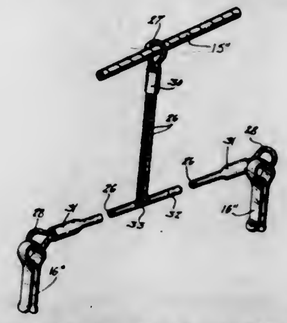
2,591,168
APPARATUS FOR REFRIGERATING ENCLOSURES
Allen Latham, Jr., Jamaica Plain, and John R. Swanton, Jr., Newton, Mass., assignors, by mesne assignments, to Hodges Research and Development Company, San Francisco, Calif., a corporation of California
Application January 21, 1948, Serial No. 3,414
10 Claims. (Cl. 62—126)



1. In apparatus as described including an insulated enclosure to be temperature conditioned, a plurality of temperature conditioning tile comprising inner and outer chambers in heat exchange relationship, brackets securing said tile to the inner surface of the enclosure with said outer chambers adjacent thereto, means including passages in said brackets for connecting said inner chambers in parallel and for connecting said outer chambers in parallel, a storage medium in said inner chambers and means for circulating a heat transfer medium through said outer chambers.

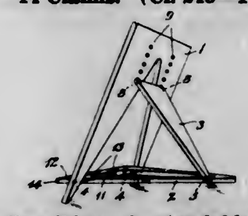
2,591,169
CLOTHESPIN HOLDER
John Levine, Brooklyn, N. Y.
Application June 9, 1950, Serial No. 167,230
2 Claims. (Cl. 211—119.12)

1. A device slidably mounting clothespins on a clothesline, comprising a length of cord having its intermediate portion engaged over the clothesline, a flattened tube engaged about the lengths of cord closely adjacent the clothesline forming a loop of said intermediate portion, said loop being slidable along the length of said clothesline, a rigid elongated tube formed intermediate of its ends with a hole, said cord having its end portions extended into said elongated tube and projected in opposite directions through said elongated tube and from the ends thereof, and



end loops on the end portions of said tube beyond the ends of said elongated tube and with which the clothespins are engaged.

2,591,170
COLLAPSIBLE DISPLAY DEVICE
Louis J. Levinson and Alfred Shebel, New York, N. Y.
Application November 21, 1945, Serial No. 630,016
14 Claims. (Cl. 248—198)

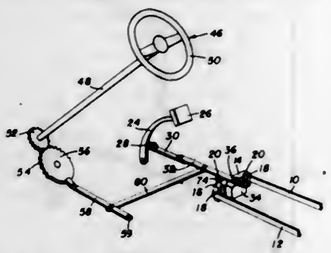


12. A collapsible and extendable display device comprising a frame part having an opening therein, a base part of a size and shape to be received in the opening of the frame part and having an opening therein, and a prop part of a size and shape to be received in the opening in the base part, the base part being hinged to said frame part and the prop part being hinged to the base part, the respective hinges being at opposite ends of said base part, the free end of the prop part being wider than its hinged end and wider than the opening in the frame part remote from when the prop part is hinged to the base part, said base and prop parts being adapted to be so positioned with respect to said frame part when in extended position that said three parts may be maintained at various angles with respect to each other with the wider free end of the prop part spanning the opening in the frame part remote from where the prop part is hinged to the base part and bearing symmetrically against the back of said frame part at each side of the opening in said frame part.

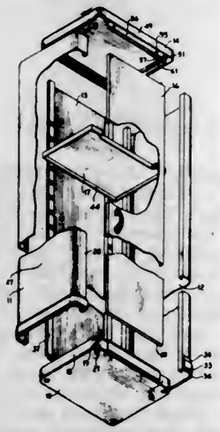
2,591,171
BRAKE OPERATED BY STEERING MEANS
Elmer H. Lohse, East Moline, Ill.
Application August 10, 1948, Serial No. 43,283
8 Claims. (Cl. 180—6.36)

3. In a vehicle having a pair of brake operating rods and a steering mechanism; a brake selector comprising, a pair of spaced blocks fixed to said rods, said blocks having rear substantially vertical faces, a pair of spaced recesses provided in the rear faces of each of said blocks, an actuator member having a forward

face, a pair of spaced ribs carried by the forward face of said actuator member, selector means activated during operation of said steering mechanism for engaging said ribs with selective of the recesses in said blocks for independent or collective activation of said rods, means yieldingly retaining said actuator engaged with one or both of said blocks, and means for operating said actuator.

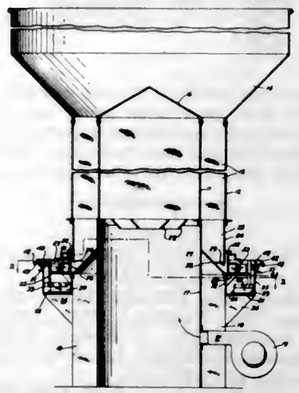


2,591,172
CABINET
Gustav Elving Lundine, Jamestown, N. Y., assignor to Jamestown Steel Partitions, Inc., Falconer, N. Y., a corporation of New York
Application April 15, 1947, Serial No. 741,568
5 Claims. (Cl. 312—263)



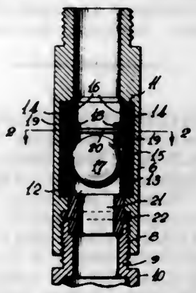
3. In a cabinet of the class described, side and rear panels, angularly disposed portions defining the front and rear edges of said side panels, complementary interfitting channels extending inwardly from the edges of the rear portions of the side panels and the edges of said rear panel to provide a plane surfaced cabinet rear wall equal to the combined width of the rear portions of the side panels and said rear panel, a rectangular base having a continuous upstanding rim, finish strips secured to and cooperating with the lower edges of said side and rear panels to provide recesses in which to receive portions of the rim of said base, a rectangular top having a continuous depending rim adapted to enclose the upper edges of said side and rear panels, door stop flanges on the front rim portions of said base and said top, said flanges being set inwardly of the cabinet to provide stops adapted to locate a door flush with the front portions of said side panels, said front portions and said base and top cooperating to provide an access opening, a door in said opening, means carried by said base and top mounting said door for pivotal movement, and spring means carried by said top operable to urge said door into fully opened or closed position.

2,591,173
GRAIN CONDITIONER
Richard F. Marken, Burlingame, Calif.
Application January 31, 1949, Serial No. 73,811
10 Claims. (Cl. 34—174)



3. Discharge mechanism for a conditioner for granular material for discharging said material away from a stationary tower having an inner and an outer perforate, circular cylindrical casing, the space between which forming a conduit through which said material may move having a substantially continuous aperture extending circumferentially about the bottom of one of said casings, said discharge mechanism comprising a frame rotatable with respect to the vertical about said tower at the elevation of said aperture, a skirt carried by said frame and in substantially horizontal registry with said aperture, said skirt having at least one opening therein, adjustable means for restricting said opening to restrict flow of said material from said aperture, a substantially horizontal flange below said aperture, and at least one vane carried by said frame and arranged to move said material over the upper surface of said flange away from said aperture.

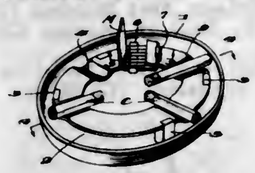
2,591,174
WELL PUMP VALVE
John N. Martin, Tulsa, Okla.
Application February 12, 1946, Serial No. 647,036
10 Claims. (Cl. 251—121)



1. A valve assembly for deep well pumps comprising, a rigid metal cage, an annular shoulder within the cage at one end thereof, a second annular shoulder within the cage adjacent the other

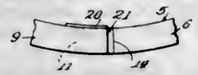
end thereof, a cylindrical wall surface in the cage intermediate said shoulders, a plurality of flexible and resilient guide members each having a length substantially equal to the space between said shoulders, an arcuate outer surface on each guide member engaging said cylindrical surface said guide members each having a curved inner surface, a resilient abutment projecting from the inner surface of each guide member, an angular under-surface on each abutment inclined upwardly from the horizontal in proceeding towards the axis of the cage, and means retaining the outer surfaces of the guide members adjacent said cylindrical surface.

2,591,175
ASH TRAY
Thomas A. Martin, Knoxville, Tenn.; E. H. Marsh, trustee, assignor to Chester Bryant, Knoxville, Tenn.
Application July 28, 1947, Serial No. 764,203
4 Claims. (Cl. 131—257)



3. A rest for a smoking article comprising a plate having portions thereof corrugated, one of the portions provided with a struck-out lug and a band surrounding that portion adjacent the lug, the corrugation portions providing recesses for the reception of a smoking article, the lug and band constituting a holding means for a lighting implement, the portion of the plate providing the corrugations being inclined from its outer edge inwardly and radially whereby smoking articles seated in the recesses will not contact the lighting implement held by the lug and band.

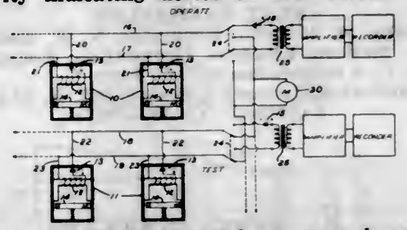
2,591,176
PISTON RING
Robert F. Mason, Magee, Miss.
Application December 1, 1949, Serial No. 130,407
5 Claims. (Cl. 309—46)



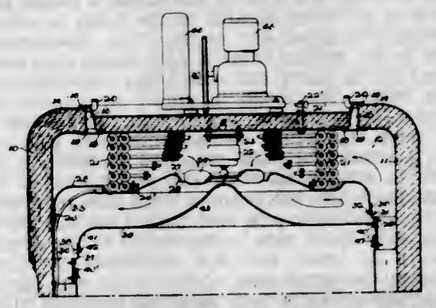
4. In a piston packing element for internal combustion engines and pumps, a split ring having a joint provided with stepped mutually opposed surfaces, an arcuately curved sealing plate affixed to the inner peripheral surface of the ring adjacent one end to bridge said joint and slidably engage the end of said ring opposite said plate said plate being arranged to close the space between the lower stepped mutually engaging surfaces while leaving the space between the upper stepped surfaces open.

2,591,177
SEISMIC SURVEYING
William Harry Mayne, San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.
Application December 2, 1949, Serial No. 130,802
2 Claims. (Cl. 177—352)

1. In apparatus for use in seismic surveying the combination with at least one seismometer, of amplifying and recording devices at a remote station, a conducting line connecting said seismometer with said devices, a source of low D. C. potential in the output circuit of the seismometer, of a second source of low D. C. potential at said station connected with said devices so as to oppose said first named source during the amplification and recording of signal energy, a polarity indicating device at said station responsive to said first named source, and means at said station for connecting to said conducting line either said amplifying and recording devices and said opposing source, whereby signal energy may be amplified and recorded, or said polarity indicating device, whereby improper connection of said seismometer with said conducting line may be determined at said remote station.



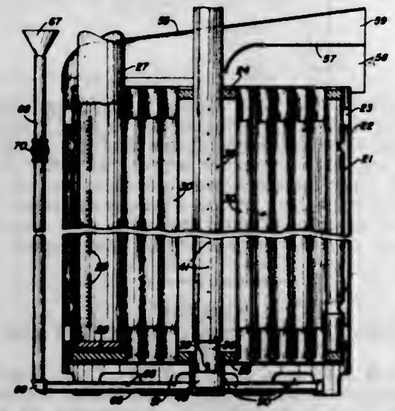
2,591,178
APPARATUS FOR AGING MEATS AND STORING VEGETABLES
Harry H. McAdam, Redwood City, Calif., assignor to Hodges Research and Development Company, San Francisco, Calif., a corporation of California
Application December 21, 1949, Serial No. 134,316
17 Claims. (Cl. 62—4)



1. In apparatus as defined and particularly for the aging of meats or the preservation of vegetables including an enclosure having insulated side walls, insulated rear and front walls, an insulated top, an insulated bottom, an opening in the insulated top, an insulated closure for the opening, a refrigerating system mounted on the closure, and evaporator coils in the refrigerating system supported beneath the closure and extending into the enclosure, a fan carried by the closure for inducing air inwardly through the evaporator coils, a wall spaced from each of the side walls and extending from the rear to the front walls and terminating short of the top and bottom, a plurality of slots in said walls, a pan hinged to one of the side walls extending from the rear to the front walls and extending to the opposite spaced wall and turned upwardly within the evaporator coil and providing a nozzle in which said fan is mounted, a second pan hinged to the other spaced wall extending from rear to front walls and extending to the opposite spaced wall and forming an air deflecting cone beneath said fan, a removable rack in the enclosure sup-

ported by the bottom, and a third pan carried by said rack and extending from the rear to the front walls and extending from adjacent the bottom of one of said spaced walls to adjacent the bottom of the other of said spaced walls.

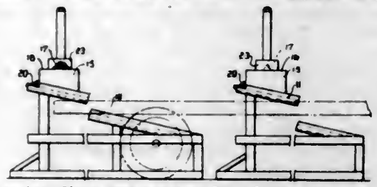
2,591,179
HEAT EXCHANGER
Douglas M. McBean, Rochester, N. Y., assignor to McBean Research Corporation, Rochester, N. Y., a corporation of New York
Application January 4, 1949, Serial No. 69,156
5 Claims. (Cl. 257—203)



5. A heat exchanger comprising a relatively thin-walled drum which is closed at both ends, a plurality of fluid-conducting tubes which extend through the ends of the drum, a steam pipe which is mounted parallel to the tubes to extend through the upper end of the drum downwardly close to the bottom thereof, said steam pipe being closed at its lower end and being provided with slots within the drum to admit steam into the interior of the drum, a sump in the bottom of the drum into which steam-condensate may collect, a conductor pipe mounted parallel to the tubes to extend through the upper end of the drum down into the sump, a third pipe surrounding the conductor pipe and spaced slightly therefrom, said third pipe being sealed to the second pipe at its lower end and extending upwardly through the upper end of the drum and having perforations in it within the drum through which non-condensables may pass, a shell surrounding the drum and spaced sufficiently therefrom to provide a passage for fluid between the drum and shell, a hood over the upper end of the shell to deflect fluid flowing from the upper ends of the tubes and from between drum and shell, said hood having an opening at one side thereof out of which the deflected fluid may pass and having openings through which the several pipes may extend, and a plurality of legs for supporting said shell, said legs being spaced so that fluid may enter at the bottom of the space between drum and shell.

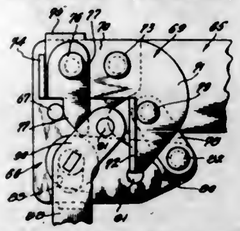
2,591,180
PRELOADER
Archie McKone, Vancouver, British Columbia, Canada
Application August 9, 1947, Serial No. 767,672
In Canada June 14, 1947
4 Claims. (Cl. 214—41)

3. A log preloader comprising two pairs of tracks arranged in tandem, the tracks of each pair being parallel to each other and spaced apart to permit a log carrier to be moved therebetween, and each pair of tracks sloping from one end to the other, bearer means slidably mounted on each pair of tracks adapted to support logging



bunks extending transversely of the tracks, and means for releasably retaining the bearer means at the upper ends of the tracks, said bearer means being slidable down the tracks to deposit the bunks after being loaded on to a log carrier.

2,591,181
ROTARY TYPE CAN OPENER
Robert E. McLean, Fort Benning, Ga., assignor to John C. Hockery, Kansas City, Mo., as trustee
Application June 6, 1946, Serial No. 674,854
16 Claims. (Cl. 30—8)

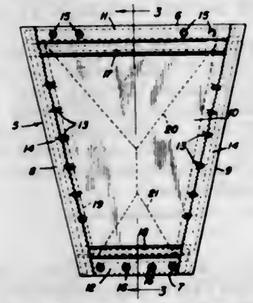


3. A rotary drive wheel type can opener comprising a body plate designed to be vertically disposed for use, a rotatable can rim engaging driving wheel and a cutter supported from the body plate upon one side thereof, the cutter and wheel having relative movement, a crank operatively coupled with the wheel for imparting rotary motion thereto, the crank being upon the opposite side of the body plate from the wheel and comprising a relatively long portion having a hand gripping means upon the free end thereof and an obliquely extending opposite end portion upon the opposite side of the connection with the wheel from the hand grasping means, a thrust pin carried by the obliquely extending portion of the crank and directed inwardly toward the body plate, a thrust receiving flange supported from the body plate and adapted to be engaged by said pin upon rotation of the crank to effect a desired relative movement between the cutter and the driving wheel, and a pivoted pawl member supported from the body plate in the line of circular movement of said pin to be engaged by the pin upon a reverse rotation of the crank to effect opposite relative movement between the cutter and the wheel.

2,591,182
PANTS
Dorothy L. Miller and Stanton A. Miller, Casper, Wyo., assignors of twenty-five per cent to Sally Jourgensen and twenty-five per cent to John L. Jourgensen
Application February 23, 1949, Serial No. 77,944
2 Claims. (Cl. 128—287)

1. A diaper holder comprising a single sheet of flexible non-stretchable material having such

length as to extend from the waistline at the back of an infant wearer through the crotch to the waistline at the front of the infant wearer, said sheet being of greater width at one end than at the other with both ends being constructed to be non-stretchable when the holder is being worn or not worn and the sides of said sheet being of equal length, said sheet from the narrower end to the wider end having substantially straight side edges and gradually increasing in width with no width intermediate the ends being less than the width at the narrower end, bindings stitched to the edges of the sides, the end having the greatest width forming in a non-stretchable condition the back top of the holder and the end of lesser width forming the front top of the holder when it is being worn, said end of greatest width being of such linear dimension for the particular size of infant for which the holder is designed as to be substantially greater than one-half the girth of the infant at the waistline in order to extend onto the abdomen of the infant and said end of lesser width being of such linear dimension as to be less than one-half the girth of the infant at the waistline but at least of such length as to overlap a substantial distance in criss-cross manner at both sides of



that end of greatest width when the pants are to be worn, said criss-crossing beginning on the top of the thigh of the wearer, and snap fastening means for detachably securing the two overlapping parts of the ends together within the length of the overlapping, said snap fastening securing means providing two spaced points of securement for each operlapping part with the cooperating snap elements being along the end marginal edges only and wholly within the substantially straight line extending along the side edges of the sheet forming the holder in order to thereby leave the side edges of equal length entirely free of securement in between the ends of the sheet, each said free side edge notwithstanding the overlapping relation providing, when the holder is worn, a slit opening between the criss-crossing portions forming the overlap and extending from the top of the thigh of the infant upwardly and inwardly toward the front of the abdomen to a point inwardly of the infant's hip bone, said spaced securing means also insuring that the ends of said edges will be held at the waistline at the front of the infant during any leg movement and that the side edges at the inside of the legs will remain snug against the leg but free of binding action.

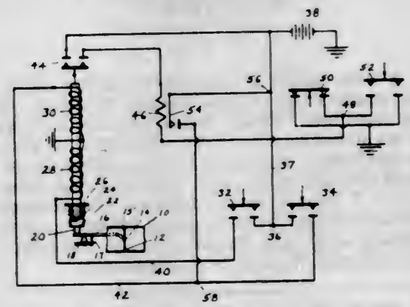
2,591,183
DENTAL PARALLELING DEVICE
Victor W. Mintz, Maplewood, N. J.
Application September 2, 1950, Serial No. 182,920
3 Claims. (Cl. 32—67)

1. A dental paralleling device for attachment to a contra-angle comprising a pair of plates disposed one over the other in overlapping relation thereto, overlapping portions of said plates being provided with corresponding apertures, a swivel ring passed vertically through the apertures of the plates and spun over the plates to swivelly secure them together in alignment and of a diameter adapting it to fit about the burr end of a contra-angle with the burr projecting through the ring, a bar fixed at one end to one of the plates and extending in the general axial



plane thereof, bowed flexible clamp fingers fixed to and extending upwardly of said bar in transversely opposed position at each end of the bar to frictionally embrace the contra-angle, an elongated extension arm fixed to the other plate and extending in the general plane thereof, a pivot pin, and a head on said pin slidably engaging said arm for disposing the pivot pin parallel to the burr and mounting the pivot pin for movement along the arm to adjusted positions relative to the swivel ring.

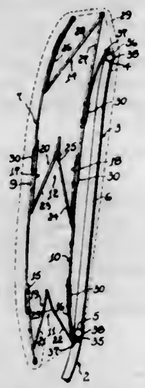
2,591,184
CONTROL DEVICE
Harry A. Mudd, Maplewood, Mo., assignor to McQuay-Norris Manufacturing Company, St. Louis, Mo., a corporation of Delaware
Application June 24, 1949, Serial No. 101,076
6 Claims. (Cl. 175—335)



1. A control device that comprises a solenoid coil, a solenoid plunger, said solenoid coil having a magnetizing section which can respond to momentary energization to move said solenoid plunger to energized position and to create a residual magnetism within said solenoid coil and a de-magnetizing section which can respond to momentary energization to reduce the residual magnetism within said solenoid coil, said solenoid plunger having sufficient magnetic retentivity to coact with residual magnetism in said coil to hold itself in magnetized position, a spring biasing said plunger out of magnetized position, a switch that is operated by said plunger and is in series relation with a heating element and with a condition-responsive switch, a normally open thermostatic switch that is adjacent said heating element and is in series relation with said magnetizing section of said coil, a normally open starting switch in series with said de-magnetizing section of said coil, and a normally-open stopping switch in series with said magnetizing section of said coil, said starting switch being closable to momentarily energize said de-magnetizing section of said coil so said spring can move

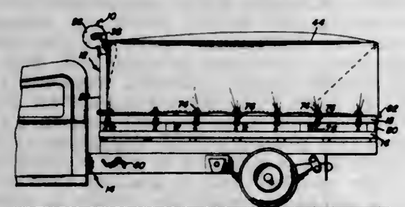
said plunger to de-magnetized position and close said plunger-operated switch, said condition-responsive switch normally being open when said plunger is in de-magnetized position but being closable to energize said heating element and cause said thermostatic switch to close the circuit of said magnetizing section of said solenoid coil, said stopping switch being closable to momentarily energize said magnetizing section of said coil and move said plunger to magnetized position and open said plunger switch.

2,591,185
WIRE SPRING STRUCTURE
William H. Neely, Cleveland, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio
Application April 14, 1948, Serial No. 20,992
6 Claims. (Cl. 155—179)



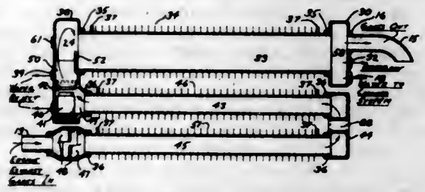
4. A wire spring structure for spring constructions comprising substantially straight, oppositely arranged, elongated, sinuously corrugated wire members having loops connected by straight wire portions, corrugated wire elements of M-shaped configuration, and a corrugated wire element of Z-shaped configuration, said corrugated wire elements being interposed between said wire members and clip means rigidly securing said wire elements to said wire members.

2,591,186
TRUCK BOX COVER
Raymond A. Neitzke, Estherville, Iowa
Application May 17, 1950, Serial No. 162,482
2 Claims. (Cl. 296—98)



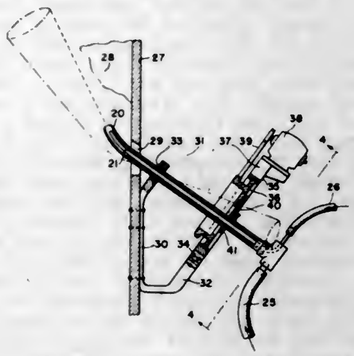
1. In combination with a truck box having a front wall and rearwardly extending side walls, a pair of forwardly extending brackets attached to said side walls, an arbor rotatably journaled on said brackets forwardly of said front wall, a web forming a cover for said box, means detachably securing one edge of said web to said arbor, and means carried by said arbor for selectively rolling and unroling said web therefrom, a casing vertically pivotally carried by said front wall, said casing being movable into and out of arbor encasing position, and means for locking said casing in a predetermined adjusted position relative to said arbor.

2,591,187
ENGINE EXHAUST CONDENSER
Robert E. Nelson, Kern County, Calif.
Application April 18, 1950, Serial No. 156,604
14 Claims. (Cl. 123—41.21)



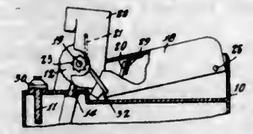
7. In a condenser for the recovery of water from combustion product gases, a first condensing section, a second condensing section adapted to recover its condensate separately from that of the first, means for passing combustion product gases through said condensing sections in sequence, means for cooling said condenser, and thermostatic valve means for throttling the flow of combustion product gases through said condenser, said thermostatic valve means being responsive to the temperature of combustion product gases passing from said first to said second condensing section and having a set control range below the dew-point of such gases.

2,591,188
APPARATUS FOR RECOVERING THE INORGANIC CONTENT OF CONCENTRATED WASTE LIQUOR
Nils Enok Nilsson, Vaggeryd, Sweden
Application July 5, 1947, Serial No. 759,208
In Sweden November 25, 1946
2 Claims. (Cl. 23—277)



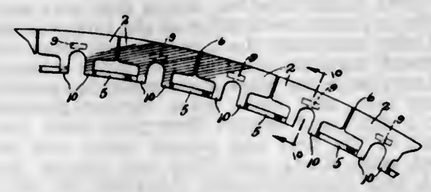
1. An apparatus for recovering the inorganic content of concentrated waste liquor rich in combustible organic substances comprising a combustion chamber, a first tubular member having an exit orifice extending into the upper part of said chamber, said member having an inlet orifice connected with a supply source of waste liquor under pressure, a second tubular member concentrically arranged within said first member, said second member having an inlet orifice and an exit orifice adjacent the exit orifice of said first member, means for supplying air to said inlet orifice of the second member at a pressure higher than the supply pressure of said liquor, said exit orifice of said first tubular member being considerably larger than the exit orifice of said second member whereby the waste liquor is split into a spray of coarser and finer particles, in which the finer particles are concentrated to the core of the spray and appear in said core in admixture with the primary air while the larger particles form an outer layer around said core, the burning of the core of the spray occurring only while in suspension and still surrounded by the larger particles of the outer layer, collecting means at the bottom of the chamber for collecting the descending mass of larger particles after said particles have given off their water content and have absorbed the inorganic content of the burning finer particles, and additional air supply means at the bottom of the chamber for burning the organic content of the collected mass.

2,591,189
LIGHTER
Norris Nordenstam, Riverside, Calif.
Application August 18, 1949, Serial No. 111,010
3 Claims. (Cl. 67—7.1)



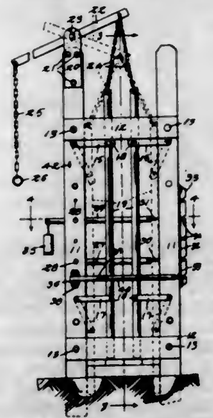
1. A pocket lighter involving: a lighter casing, a friction wheel rotatably mounted on said casing in operative relationship to produce sparks when the friction wheel is rotated, a cap member, a one-way clutch connecting said cap member to said friction wheel, said cap member being pivotally mounted on said casing, a depresser bar mounted on said casing with one of its ends adjacent said cap and the other one of its ends remote from said cap, said depresser bar being pivotally mounted on said casing at said other end, and a link member comprising a torque spring abutting both said cap member and said depresser bar, said torque spring having both of its free ends attached to said cap member with an intermediate portion of said torque spring engaging said depresser bar.

2,591,190
PISTON RING
Holly M. Olson, Muskegon, Mich., assignor to Sealed Power Corporation, Muskegon, Mich., a corporation of Michigan
Application October 31, 1949, Serial No. 124,643
7 Claims. (Cl. 309—45)



3. A piston ring of thin sheet metal comprising, two spaced cylinder bearing lands, each comprising a plurality of land segments located circumferentially around the ring having adjacent ends in close proximity to each other, each of said land segments at its inner edge having generally U-shaped integral connectors extending between it and the segment opposed to it in the other land, said connectors being spaced from each other and independent of other lands, and adjacent connectors connected with successive adjacent land segments having relatively rigid integral tie means between them at the inner side of the ring, whereby the two connectors which independently connect each pair of land segments are flexed toward each other and yield upon circumferential contraction of the ring to a smaller diameter, and restore the ring to its initial diameter upon release of contracting pressure thereon.

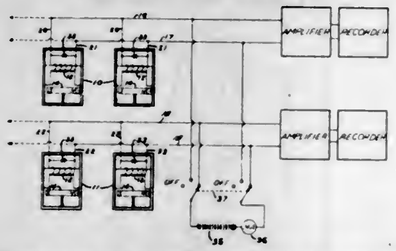
2,591,191
BRANDING AND DEHORNING CHUTE FOR CATTLE
Andrew Osmetti, Beckworth, Calif.
Application May 4, 1951, Serial No. 224,601
8 Claims. (Cl. 119—99)



1. The combination with a cattle chute having an open rear end and an open forward end and including front corner posts disposed in transversely spaced relationship relatively to the chute and defining its open forward end, of a stanchion having laterally spaced upright anchor posts, means securing each of the anchor posts to one of the front corner posts and supporting the anchor posts in front of and spaced from the front corner posts, a pair of upright neck engaging members disposed between the anchor posts in spaced relationship to one another, vertically spaced pairs of links connecting each of said neck engaging members to an adjacently disposed anchor post for vertical and lateral movement of the neck engaging members relatively to the anchor posts, said links being pivotally supported on the anchor posts for vertical swinging movement and being urged downwardly by gravity for displacing the neck engaging members downwardly and away from one another, manually actuated means including a lever fulcrumed intermediate of its ends on one of the anchor posts for displacing said neck engaging members upwardly and toward one another, a throat engaging member swingably connected at one end thereof to one of said anchor posts for vertical swinging movement, means for latching said throat engaging member in substantially a horizontal position between the anchor posts and across said upright neck engaging members when the latter are in elevated positions, a neck engaging rod pivotally supported for vertical swinging

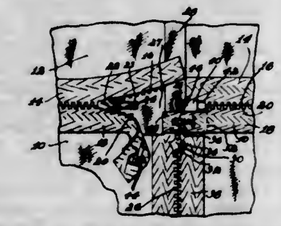
movement adjacent one end thereof on the last mentioned anchor post and above the pivot of said throat engaging member, means for latching said neck engaging rod in substantially a horizontal position with a portion thereof disposed between the anchor posts and extending across the upright neck engaging members to cooperate therewith and with a portion of the throat engaging member to define a neck receiving opening, and counter-weight means connected to the neck engaging rod and urging the end thereof disposed between the anchor posts to swing upwardly and toward the anchor post on which said rod is swingably supported.

2,591,192
SEISMIC SURVEYING
Josephus O. Parr, Jr., San Antonio, Tex., assignor to Olive S. Petty, San Antonio, Tex.
Application November 29, 1949, Serial No. 129,895
4 Claims. (Cl. 177—352)



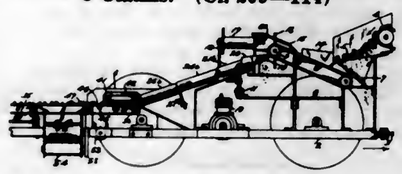
1. In apparatus for use in seismic surveying including at least one seismometer, amplifying and recording devices at a remote station, and a conducting line connecting said seismometer with said devices, the combination with a rectifier in the output circuit of the seismometer, of a voltage source and a current responsive indicating device in circuit at said station, and means at said station for connecting said conducting line to said source and indicating device, whereby faulty connections between said seismometer and said conducting line may be determined at said remote station, the voltage applied to said circuit by said source being substantially greater than the maximum seismometer output signal voltage.

2,591,193
ZIPPER CLOSURE
Fernande E. Perry, Leesburg, Fla.
Application September 19, 1947, Serial No. 775,083
7 Claims. (Cl. 2—70)



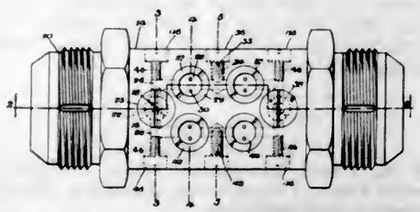
1. In a two piece garment comprising a blouse and skirt portion, tapes secured to the lower end of a blouse portion and another to the upper end of the skirt portion, one-half of a separable fastener secured to each of said tapes, a fastener closing member, an elongated portion formed on one end of one of said tapes having a hooked portion secured thereto, an eye formed on the opposite end of said tape and adapted to be engaged by said hooked portion whereby separation of the ends of the lower tape ends is prevented and the blouse and skirt portions are maintained in cooperative engagement.

2,591,194
APPARATUS FOR SEPARATING AND CLEANING POTATOES
William T. Pfister, Los Angeles, Calif.
Application September 4, 1948, Serial No. 47,826
3 Claims. (Cl. 209—114)



1. A machine for cleaning potatoes, having, in combination; a potato receiver, potato alining means to which the receiver discharges, a dirt separating means including a potato support to which the potatoes discharge when alined by said alining means, and presser means to hold the potatoes on said support and consisting of a resilient, spongy, travelling belt disposed longitudinally just above and generally parallel to said separating support; all of the said means being in longitudinal alinement for unidirectional passage of the material thereat; said support including an elongate belt having a generally horizontal potato-carrying top stretch at the forward end of which said spongy belt is arranged to receive potatoes from the alining means, and a jigging means for said stretch.

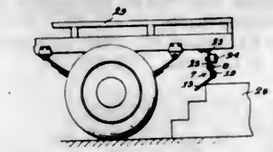
2,591,195
THERMAL FLOWMETER
Michael A. Picciano, Maywood, N. J., assignor to Breeze Corporations, Inc., Newark, N. J., a corporation of New Jersey
Application March 1, 1946, Serial No. 651,342
3 Claims. (Cl. 73—204)



3. A thermal flowmeter comprising, a fluid receiving tube adapted to be coupled to a fluid supply line, a block member carried by the tube, said block being provided with a first bore communicating with the interior of the tube whereby fluid may pass from the tube into the block and a second bore provided in the block whereby fluid may leave the block and reenter the interior of the tube, said block being further provided with a first and second flow path both connected to the first and second bores, and enlarged wells along said first and second flow paths and communicating therewith so as to allow the fluid in the flow paths to pass through the said wells, valves carried within the block member adjacent the flow paths adapted to regulate the flow of fluid through the flow paths, said valves being adjustable so as to restrict and

render the flow through the first flow path and the wells therein substantially constant so as to establish them as comparison wells while allowing the flow through the second path and the wells therein to vary directly with the fluctuation of the fluid in the supply line, and a thermal Wheatstone bridge circuit comprising, a plurality of resistors, a source of electrical potential connected to the resistors, for uniformly heating the resistors, a thermally conducting shell surrounding each of the resistors, a current indicating meter in the circuit, said bridge having an arm thereof in each of the wells in contact with the fluid therein, whereby the variation within the fluid flow which passes from the tube through the first bore, the second flow path, the wells connected to the second flow path and thence through the second bore before returning to the tube, will affect the conductivity of the arms in the wells so as to be translated into fluctuations of the current indicating meter.

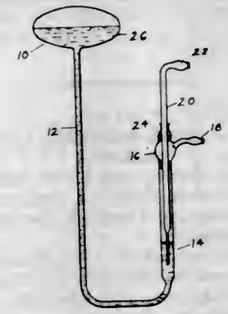
2,591,196
LICENSE TAG HOLDER
Ralph R. Post, Waterbury Center, Vt.
Application June 17, 1949, Serial No. 99,803
1 Claim. (Cl. 40—125)



A license tag holder comprising a mounting plate adapted to be supported by and disposed stationary with respect to the body of a wheeled vehicle and in a vertical plane, said mounting plate having a lower edge adapted to be disposed substantially beneath an adjacent portion of the vehicle body, a substantially rigid license tag supporting plate, means swingably connecting said license tag supporting plate to the lower edge of the mounting plate, said license tag supporting plate being normally disposed in a depending position beneath the mounting plate, spring means carried by said connecting means engaging against and urging the license tag supporting plate to swing outwardly of the vehicle and relatively to the mounting plate, and stop means carried by the supporting plate and engaging said mounting plate to combine with said spring means for normally retaining the plates in substantially the same plane, said stop means comprising extensions of the upper edge of the license tag supporting plate, said extensions being outwardly bowed with respect to the license tag supporting plate and having free ends disposed to abut the forward side of the mounting plate when said plates are disposed in the same plane to limit outward swinging movement of the supporting plate relatively to the mounting plate, said supporting plate being restricted in its inward and upward swinging movement relatively to the mounting plate solely by the tension of said spring means.

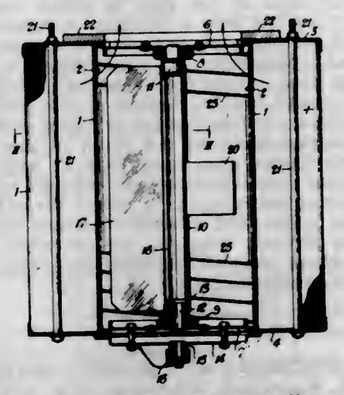
2,591,197
FLUID PRESSURE REGULATING APPARATUS
David W. Rau, Kirkwood, Mo., assignor to Vickers, Incorporated, a corporation of Michigan
Application December 20, 1947, Serial No. 792,938
20 Claims. (Cl. 137—53)

1. A device that is adapted to maintain gas under constant pressure irrespective of changes in ambient pressure and that comprises a container which has a closed end and an open end, a liquid column within said container intermediate the ends thereof, an evacuated atmosphere between one end of said liquid column and said closed end of said container, the other end of said liquid column being exposed to ambient pressure through said open end of said container whereby said liquid column moves down whenever ambient pressure increases and moves up whenever ambient pressure decreases, and a



bubbler tube, said bubbler tube extending down into said other end of said liquid column a predetermined distance to provide a desired hydrostatic pressure, whereby gas passing through said bubbler tube will be under a pressure higher than the ambient pressure, said liquid column being movable in response to variations in ambient pressure to change the pressure required to pass gas through said bubbler tube and thus maintain the total instantaneous pressure in said bubbler tube constant.

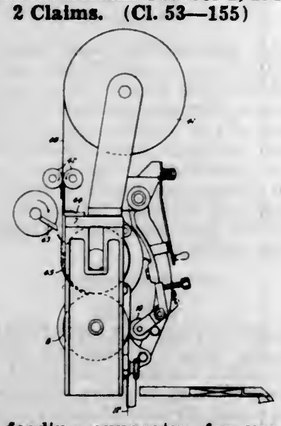
2,591,198
APPARATUS FOR CLEANING FILTERS
Donald Frank Ringe, Guildford, England, assignor to Vokes Limited, Guildford, England
Application February 16, 1950, Serial No. 144,449
In Great Britain March 8, 1949
7 Claims. (Cl. 183—61)



1. A filter including a cylindrically arranged filtering medium with annular end caps at the ends of the same, the opening in one of said end caps forming a clean air outlet, a closure cap secured to and closing the opening in the other of said end caps, spiders carried by and spanning the openings in said end caps, a hollow spindle freely rotatably supported by said spiders and within the confines of the end caps, said hollow spindle being closed at one end and open

at its other end and having a slot intermediate said ends, the open end of the spindle being juxtaposed relative to and slightly spaced from said closure cap, a hollow vane mounted on and communicating with the slot in the hollow spindle, tne free end of the hollow vane having an exit opening directed generally tangential to the inner surface of the filtering medium, and means for directing air under pressure through said closure cap and across the slight space into the open end of the hollow spindle and the hollow vane to and through the tangential exit opening, causing the vane to rotate and circulate air to the inner surface of the filtering medium.

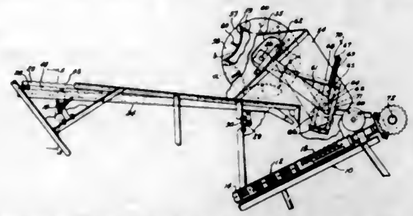
2,591,199
APPARATUS FOR FEEDING LABELS OR BLANKS
William Arthur Roffey and Cyril Arthur Tredget, Deptford, London, England, assignors to Molins Machine Company Limited, London, England, a British Company
Application September 19, 1949, Serial No. 116,492
In Great Britain October 1, 1948
2 Claims. (Cl. 53—155)



1. Blank feeding apparatus for use in wrapping machines of the type in which blanks are successively fed into a position intersecting the path of advance of a series of articles to be wrapped, comprising, in combination, a pair of coacting feed rollers for engaging and forwarding successive blanks, devices at the exit side of said rollers for frictionally gripping each blank so forwarded to arrest the blank in the position to which it has been forwarded by said rollers, and means supporting one of said feed rollers for circumferential adjustment about the axis of the coacting roller and toward or away from said gripping devices, whereby the arrested position of the blank may be adjusted to exact registry with the advancing article.

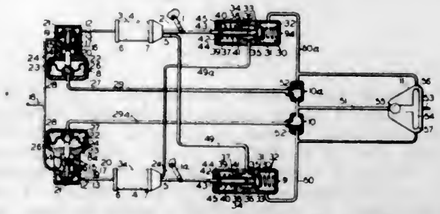
2,591,200
SELF-FEEDING CORNHUSKING MACHINE
Henry L. Rosenthal, Milwaukee, Wis., assignor to Henry L. Rosenthal, Paul H. Rosenthal, Lawrence E. Rosenthal, and Mabel A. Rosenthal, copartners, doing business as Rosenthal Mfg. Co., Milwaukee, Wis.
Application January 10, 1948, Serial No. 1,527
12 Claims. (Cl. 130—1)

1. In a device for feeding material into an agricultural machine, a plurality of inclined elongated decks positioned to support and feed material which is placed thereon and extending adjacent one another, said decks being positioned sufficiently close together to prevent any substantial amount of material placed thereon from falling therebetween, means for imparting rotary motion in a vertical plane to one end of one of



said decks, a swingable support for the other end of said deck, means for imparting rotary motion in a vertical plane to the end of the other deck which is adjacent the swingably supported end of the first deck, and a swingable support for the other end of said second mentioned deck.

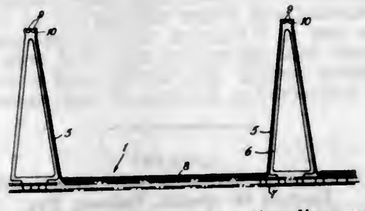
2,591,201
CLUTCH CONTROL APPARATUS
Howard C. Rowand, Wanakena, N. Y., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application February 12, 1949, Serial No. 76,058
6 Claims. (Cl. 60—97)



1. An apparatus for selectively positioning each of two individual elements each having a first position and a second position, comprising in combination with said elements, control means arranged for connection with said elements for selectively controlling movement of said elements to their different positions, and interlock means controlled by said elements for breaking the connection between said control means and elements in their first position and for establishing such connection in their second position.

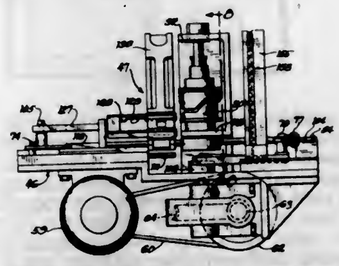
2,591,202
CIGARETTE COLLECTING MECHANISM WITH UPSTANDING MEMBERS ON A CONVEYER FOR RELEASABLY SUPPORTING FLEXIBLE END PORTIONS OF RECEPTACLES
Felix Frederic Ruau, London, England, assignor to Molins Machine Company Limited, Deptford, London, England, a British company
Application November 1, 1948, Serial No. 57,771
In Great Britain November 11, 1947
1 Claim. (Cl. 226—5)

Collecting mechanism for rod-shaped articles such as cigarettes, comprising feeding means to feed the articles in a direction transverse to their longitudinal axes toward a delivery zone, a conveyor, upstanding members supported in spaced relation lengthwise of said conveyor, receptacles secured to said upstanding members, each of said receptacles comprising a rigid bottom portion and flexible end portions, means releasably securing said end portions to adjacent upstanding members, and an article supporting guide extending downwardly into the path of the receptacles, and below the level of the tops of the said end portions, the said guide being forked to



permit the end portions and upstanding members to pass between the forks of the guide, the distance between the forks of the guide being less than the length of an article being delivered to a receptacle so that the articles may be supported by the forked guide.

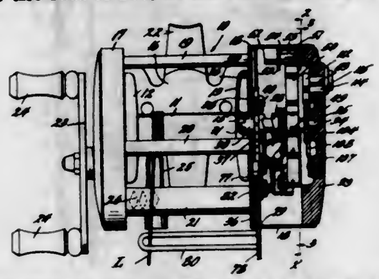
2,591,203
PIN FORMING AND BUTTON-PINNING MECHANISM
Albano Schmalz, Chicago, Ill.
Application May 31, 1950, Serial No. 165,295
15 Claims. (Cl. 79—1)



1. Pin forming and button pinning mechanism; comprising means for feeding a button provided with a cavity which is positioned to face upwardly; means for feeding a straight and pointed pin; anvil means for receiving the said straight pin; and means for bending and forming the said straight pointed pin to restricted configuration to fit within the said button and release the formed pin within the said cavity in the said button; the said anvil means and the said means for bending and forming the said straight pointed pin being co-axially aligned; the said cavity being interposed between the said anvil means and the said means for bending and forming the said straight pointed pin and in co-axial relationship therewith.

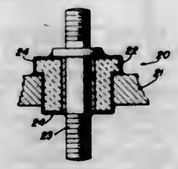
2,591,204
FISHING REEL
Frederick W. Schnepel, Elmira, N. Y.
Application May 18, 1949, Serial No. 93,940
12 Claims. (Cl. 242—84.3)

1. A fishing reel assembly of the class described comprising, in combination, a supporting frame adapted to be attached to a fishing rod or the like, a reel rotatably mounted on said frame and adapted to carry the fishing line, a hand crank and means operatively connecting said crank to said reel for rotating it in either reeling-in or paying-out directions, pawl and ratchet means engageable at will for preventing rotation of the reel in the reeling-in direction and spring means engageable with said reel and adapted to be stressed to urge the reel in the reeling-in direction, said pawl and ratchet means serving to set the reel against reeling in and in opposition to the tension of the spring means, and means for tripping the pawl and ratchet means upon the tautening of the line to a predetermined extent by a catch to permit the spring to suddenly actuate the reel to reel in the line, braking means



for frictionally retarding the paying-out movement of the reel, means affording further movement of said tripping means beyond that necessary to disengage the pawl, means on said braking means engageable by said tripping means during such further movement, whereby said automatic tripping means also serves to apply said braking means upon further tautening of the line.

2,591,205
HERMETICALLY SEALED INSULATOR BUSHING ASSEMBLY
Robert A. Schoenlaub, Cleveland, Ohio, assignor to Sylvester & Company, Cleveland, Ohio, a corporation of Ohio
Application May 15, 1948, Serial No. 27,258
4 Claims. (Cl. 174—153)

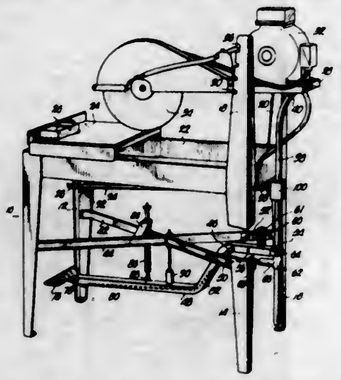


1. An electric terminal assembly comprising a metallic casing having an opening therein; a bushing formed from stabilized zirconia disposed in the opening in said casing; a metallic conductor extending through said bushing into said casing; and a thin coating of glaze between said conductor, said bushing and said casing, said glaze being fused to said elements.

2,591,206
CUTTING MACHINE FOR BRICK, TILE, AND SIMILAR ARTICLES
George P. Scott, Kansas City, Mo., assignor to Eveready Briksaw Company, Chicago, Ill., a corporation of Delaware
Application June 15, 1949, Serial No. 99,147
5 Claims. (Cl. 125—13)

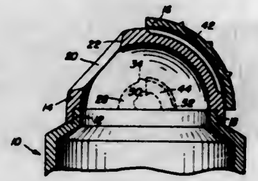
1. A cutting machine of the character described comprising a swingably mounted cutter head; an elongated arm extending from said head; a movable foot-operated lever spaced from said head; releasable means operably interconnecting said arm and said lever; structure on the lever having connection with said means for releasing the latter, said releasable means being shiftable relative to the arm when released and having parts selectively engageable with the arm

at a plurality of spaced points thereon; and mechanism movable to and from a position en-



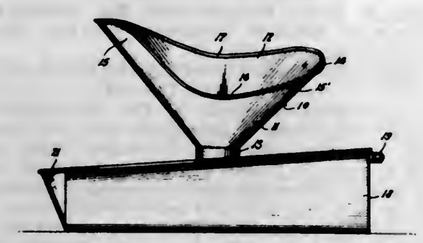
gaging said arm for holding the head against swinging movement.

2,591,207
CLOSURE DEVICE
Bernard C. Sepesy, Streator, Ill.
Application September 6, 1949, Serial No. 114,167
6 Claims. (Cl. 222—558)



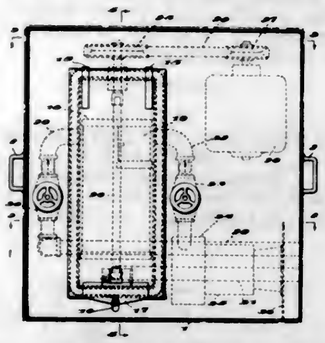
1. A closure device comprising a hollow internally threaded hemispherical body having an aperture extending therethrough in one semi-hemisphere thereof, said body having a pair of semi-circular oppositely disposed grooves on the other surface thereof, a hollow semi-hemispherical cap having oppositely disposed, inwardly projecting arcuate lugs eccentrically positioned in said grooves, said grooves comprising a first recess of one radius of curvature in communication with a second recess of a differing radius of curvature.

2,591,208
ELIMINATION AND IRRIGATION EQUIPMENT
Evie R. Seymour and Charles W. R. Russell, Portsmouth, Va.
Application September 30, 1947, Serial No. 777,030
1 Claim. (Cl. 4—112)



A device for use in the administering of an enema to a colostomy patient comprising a receptacle, said receptacle being substantially elliptical shape in plan, one end of the ellipse being substantially higher than the opposite end and one side edge of the ellipse being substantially lower than the other side edge and lower than said opposite end, said lower edge adapted to be held against and follow the contour of the body of the user in the region of the colostomy opening with said other side edge and ends of the receptacle serving as a shield, and a discharge spout connected to the base of said receptacle.

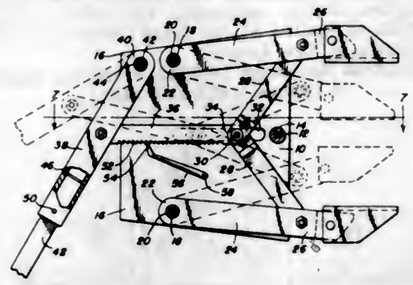
2,591,209
WASHING AND DRYING MACHINE
Darrell W. Smith, Odessa, Tex.
Application February 14, 1947, Serial No. 728,593
8 Claims. (Cl. 210—199)



1. A washing and drying machine for samples of cuttings from a drilled well comprising a rotary closed container having means for admitting shale cuttings thereto and having a perforated side wall, an imperforate receptacle enclosing the container and having an open top, a cover for said open top of the receptacle, means for rotating said container at high speed for discharge of moisture therefrom by centrifugal force, a first pipe connected with one side of the receptacle for supplying water thereto in washing relation with the container, a second pipe connected with the opposite side of the receptacle in drying relation with the contents of the container, said pipes being in communication with the interior of said receptacle but terminating externally of said container, valve means for controlling the flow through said pipes, and a casing enclosing said receptacle, the means for rotating the container and pipes, said casing having a side thereof mounted thereon for movement to an open position, said water pipe extending substantially to said side for external connection upon opening movement of the side.

2,591,210
LEVER ACTUATED SPRING ASSEMBLING HAND VISE
Luther E. Sowell, Iredell, Tex.
Application June 16, 1948, Serial No. 33,288
4 Claims. (Cl. 144—302)

1. A vise comprising a pair of spaced side members, a pair of arms pivoted between said side members, opposed recesses provided in the inner faces of said side members and extending at right angles to the pivots for the arms, an elongated guide having its ends slidably mounted in said recesses, links connecting said guide to said arms, a pair of clamping jaws carried by said arms, a lever pivoted between said side members, an actuating bar carried by said lever and connected to said guide, and means carried by the side



members for locking said actuating bar in an adjusted position.

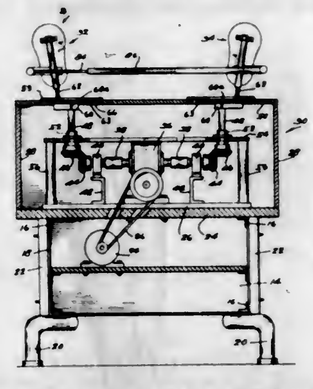
2,591,211
ADJUSTABLE SHOE
Burdell D. Spencer, Oxon Hill, Md., assignor to the United States of America as represented by the Secretary of the Army
Application August 17, 1951, Serial No. 242,399
4 Claims. (Cl. 36—2.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a shoe having a sole, quarters and a tongue section connecting the quarters, band sections connected with the sole near the opposite longitudinal edges of the sole and extending above the sole and disposed between the quarters and tongue section, outer substantially V-shaped gussets arranged between the quarters and band sections and including upper marginal portions which are secured to the band sections and quarters, inner gussets connecting the tongue and band sections and disposed laterally inwardly of the band sections, said inner gussets extending longitudinally of the shoe for the lengths of the band sections only and having their ends closed, adjustable means connected with the band sections for drawing their free ends together above the foot, and separate closure means for the quarters.

2,591,212
LEG AND ANKLE MASSAGE TABLE APPARATUS
Bernard H. Stauffer, Los Angeles, Calif.
Application December 29, 1947, Serial No. 794,253
13 Claims. (Cl. 128—46)

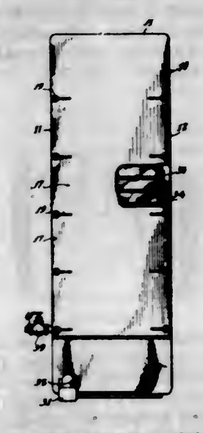
5. In a massage table apparatus, a pair of applicators so constructed and arranged that the feet may be supported thereon, non-vertical cyclically movable shafts in swiveled union with said applicators, means to non-rotatingly swing

said applicators through a circular travel orbit, said means comprising driven shafts having horizontal bars interposed between said driven shafts



and said non-vertical shafts, and telescopic tubular means connected to said applicators arranged to hold the applicators in positions of like disposition.

2,591,213
PROCESS FOR HYDRATING DATES
Peter J. Stupin, Montebello, and Loyd Adams, Maywood, Calif., assignors to Calavo, Inc., Los Angeles, Calif., a corporation of California
Application July 6, 1948, Serial No. 37,198
9 Claims. (Cl. 99—100)



1. The method of hydrating dried fruit, comprising the steps of placing the fruit in a closed chamber, removing a major portion of atmospheric air from the chamber, and subjecting the fruit to water vapor in the temperature range of 140° F. to 155° F.

2,591,214
VACUUM CLEANER WITH DETACHABLE REEL-AND-HANDLE UNIT
Bernard J. Tamarin, Flourtown, Pa.
Application November 4, 1944, Serial No. 561,866
7 Claims. (Cl. 15—323)

1. A vacuum-cleaner including a housing having an electric motor mounted therewithin and having a bifurcated rear-end, a detachable reel-and-handle unit pivotally mounted within said bifurcated rear end, said unit including a reel-

housing, a rotatable reel mounted within said reel-housing and a hollow handle extending upwardly from said reel-housing, an extensible electric cord carried by said reel and extending from said reel-housing and through said handle



and emerging adjacent the upper end of said handle, and means contained within said reel-housing for maintaining electrical contact between said electric motor and said electric-cord regardless of rotation of said reel within said reel-housing.

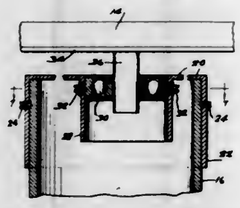
2,591,215

SERVING TABLE WITH ROTATABLE CENTER

Arthur E. Thiel, Dinuba, Calif.

Application June 16, 1950, Serial No. 168,567

1 Claim. (Cl. 311—33)



In a table having an annular stationary service element and a circular rotatable service element having a stub-shaft dependent therefrom, and including a support post common to both of said service elements; means to rotatably support the second mentioned service element with respect to a plane coincidental to the top surface of the first mentioned service element, said means including a capping upon the upper free end of said support post, said capping having a horizontal surface and a pair of diametrically unequal concentric annular flanges dependent therefrom, the greater of said concentric annular flanges overhanging the sides of said support post for positioning thereof in alignment with said support post and the lesser of said concentric annular flanges being positioned within and medially aligned with the longitudinal axis of said support post, a bearing positioned within and supported by the lesser of said annular flanges, said bearing being adapted to receive said stub-shaft in press-fitted relationship whereby non-tilting rotation thereof including the circular service element is obtained.

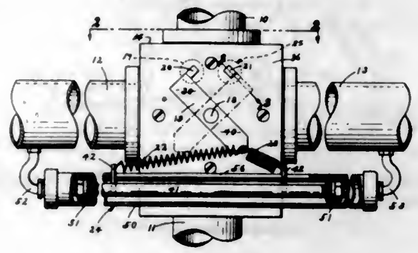
2,591,216

VALVE OPERATING MECHANISM

Robert Hurd Thompson and Herbert Harvey, Los Angeles, Calif., assignors, by mesne assignments, to United States Steel Company, a corporation of New Jersey

Application November 28, 1944, Serial No. 565,551

6 Claims. (Cl. 137—139)



1. A mechanism for oscillating a shaft or the like including, a lever controlling the shaft, latches to hold the lever against movement between two positions, two helical tension springs connected with the lever and extending in opposite directions from the lever for moving the lever between said positions, means for alternately tensioning the springs for action, and means operable to selectively release the latches.

5. In combination, a valve operable between two positions to control flow of fluid to and from two distributing conduits so they are alternately under high and low pressure and having an operating stem, a lever controlling the stem, latches engaged when the valve is moved to either of its two positions and holding the lever so the valve is held in either of its two positions, control means for the latches, and means for operating the lever including, a cylinder, a rod in the cylinder, pistons on the rod operable in the cylinder, tension springs connected with spaced parts of the rod and with the lever so the lever is between them, a fluid connection between one conduit and the cylinder at one piston, and a fluid connection between the other conduit and the cylinder at the other piston, the valve when in one position supplying pressure to one piston and relieving it from the other piston so force is applied tending to move the valve to the other position.

2,591,217

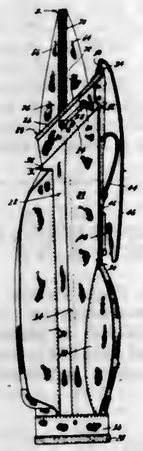
GOLF BAG

Robert E. Thompson, Des Moines, Iowa, assignor to Des Moines Glove & Mfg. Company Inc., Des Moines, Iowa, a corporation of Iowa

Application September 27, 1948, Serial No. 51,340

4 Claims. (Cl. 150—1.5)

1. A golf bag comprising, a receptacle having an open top and a back wall, front wall and side walls, golf club divider bars secured to and between said side walls adjacent to and extending across said open end, a flexible flap secured to said back wall and a flexible flap secured to said front wall adjacent said open top, said flaps adapted to be folded into said receptacle and to be extended out of said open top, each of said flaps having side portions extending laterally from the points of securement of said flaps with the respective walls, said side portions and the extended ends of said flaps adapted to extend over said divider bars when the flaps are extended out of said open top, and fastener means secured to the marginal edges of said flaps, said fastener means adapted to be interconnected to form a hood from said flaps



when the latter are extended out of said open top.

2,591,218

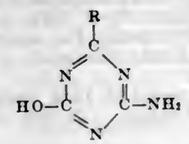
GUANIDE-FORMALDEHYDE CONDENSATION PRODUCTS FOR TANNING AND BLEACHING LEATHER

Jack T. Thurston, Riverside, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application August 12, 1949, Serial No. 110,021

10 Claims. (Cl. 8—94.24)

1. A process which comprises impregnating skins and hides with an aqueous solution of a water-dilutable, acid-sensitive condensation product of 1 mol of a guanide of the formula:



in which R is selected from the group consisting of alkyl radicals of from 1 to 3 carbon atoms and aryl radicals of from 6 to 8 carbon atoms with from about 1 to about 3 mols of formaldehyde.

2,591,219

DRIVING UNIT FOR MOTOR VEHICLES

Philip Conrad Vincent, Stevenage, England, assignor to Vincent "H. R. D." Company Limited, Stevenage, England, a British company

Application July 11, 1947, Serial No. 760,335

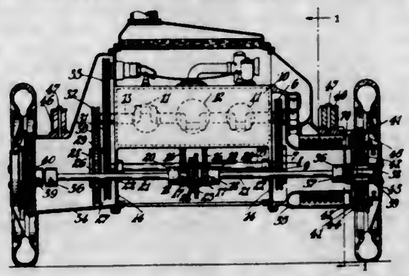
In Great Britain November 15, 1943

Section 1, Public Law 690, August 8, 1946

Patent expires November 15, 1963

7 Claims. (Cl. 180—56)

1. A driving unit for a motor vehicle comprising an internal combustion engine body, an axle casing fixed to the engine body and extending from each of the two opposite sides thereof, an axle extending through and projecting from each end of the casing and driven by the engine, a bearing around each axle, spring means entirely within and near each end of the axle casing between it and the bearing, and sealing means between the ends of the bearing and the ends of the casing for completely enclosing the spring means within said axle casing.



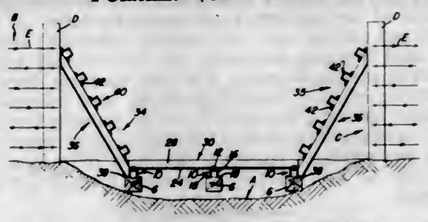
2,591,220

CATTLE GUARD

Grover C. Welter, Roswell, N. Mex.

Application April 3, 1950, Serial No. 153,695

4 Claims. (Cl. 256—17)



1. A structure of the class described comprising a knockdown openwork grating adapted to span a ditch, excavation or cavity in a roadway or the like embodying a plurality of independent horizontal foundation timbers disposed in a plane with each other and in spaced parallelism, longitudinal metal rails superimposed on and removably fastened to said timbers, said rails being channel-shaped in cross section and having outstanding longitudinal flanges fastened atop said timbers, and a plurality of transverse traction rails, the latter being channel-shaped in cross section, disposed at right angles to said first named rails and having outstanding flanges seated on and releasably attached to the web portions of said first named rails.

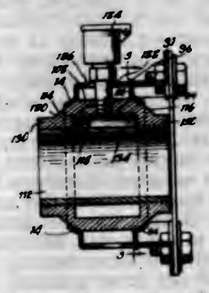
2,591,221

SIDE MOUNT PILLOW BLOCK BEARING

Robert H. Whiteley, Chicago, Ill., assignor to Randall Graphite Products Corporation, Chicago, Ill., a corporation of Delaware

Application July 3, 1946, Serial No. 681,195

20 Claims. (Cl. 308—72)



1. A shaft bearing comprising a housing formed of a first and a second sheet metal section, said

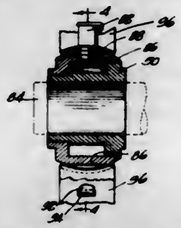
first sheet metal housing section having a flange and an integral hollow housing projecting laterally therefrom and bent substantially at right angles to the plane of said flange, said laterally projecting housing portion having a front wall disposed substantially parallel to the plane of the flange, said front wall having a central opening for the shaft, said opening having a concentrically surrounding, somewhat spherically shaped, forwardly projecting flange formed integral with said front wall, said second sheet metal housing section including a flanged portion, said flanged portion having a central opening, said flanged portion being formed as a concentrically surrounding, partly spherical, rearwardly projecting flange, a bearing sleeve carrier having external, spaced, spherical shaped external wall surfaces engaged by the spherical flange portions of said first and second housing sections, said bearing carrier having sleeve-like portions passing through the registering openings of said first and second housing sections, a bearing sleeve carried by said carrier, means for holding said housing sections in an interengaged, assembled relation with said bearing carrier therebetween while permitting said bearing carrier to self-align by relative movement of the external spherical surfaces of said bearing carrier and the spaced spherical flanges of said housing sections, and lubricating means having means forming a filling opening disposed exterior of said housing portion, said lubricating means having a lubricant conduit passing through the exterior wall of said laterally projecting housing portion and through the wall of said sleeve carrier to lubricate the bearing formed by said sleeve.

2,591,222

PILLOW BLOCK BEARING AND MOUNTING THEREFOR

Robert H. Whiteley, Oak Park, Ill., assignor to Randall Graphite Products Corporation, Chicago, Ill., a corporation of Delaware

Application January 25, 1947, Serial No. 724,439
4 Claims. (Cl. 308—72)



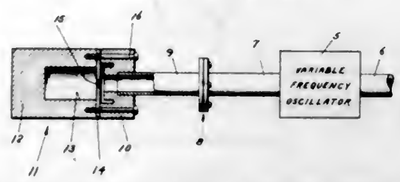
1. In combination with an annular housing having a curved interior wall portion, a metallic annular bearing member having an outer wall portion curved in a direction parallel with the central axis of the annular housing, said annular bearing member having at one end or face thereof an inwardly projecting annular flange providing a shoulder extending in a direction transverse to the central axis of said annular bearing member, and a bearing sleeve adapted to fit within said annular bearing member, said bearing sleeve having an external, outwardly extending flange adapted to make a tight fit within that annular inner wall of the annular bearing member that is opposite the inwardly projecting flange of said annular bearing member, the opposite end of said inner bearing sleeve making a tight fit with the inner annular wall of the inwardly projecting flange of said annular bearing member whereby to provide an annular lubricant chamber therebetween which lubricant chamber has its major axis extending in a direction parallel with the central axis of the inner bearing sleeve, the outer wall of said bearing sleeve adjacent the inwardly projecting flange on said annular bearing member being recessed to provide a shoulder, said last mentioned inwardly projecting flange being positioned in abutting relationship against said last mentioned shoulder to position said annular bearing member and said bearing sleeve in a fixed manner with respect to each other.

2,591,223

BROAD-BANDED TERMINATION FOR ELECTROMAGNETIC WAVE TRANSMISSION SYSTEMS

Norman R. Wild, East Natick, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Application July 26, 1945, Serial No. 607,125
1 Claim. (Cl. 178—44)



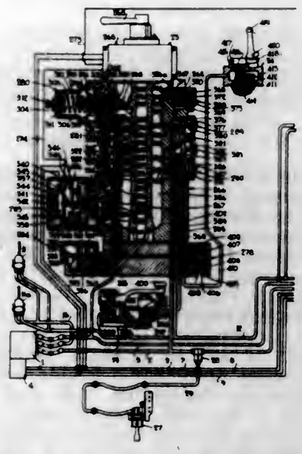
In combination: a variable-frequency generator of electromagnetic energy in the microwave region of the spectrum; means coupled to said generator for conveying the generated energy, in one direction to a load, and in another direction to a terminal device; said terminal device having a constant impedance over the frequency band of said generator and comprising a low-Q cavity resonator provided with a coupling iris.

2,591,224

FLUID PRESSURE BRAKE EQUIPMENT

Samuel L. Williams, New York, N. Y., and John W. Rush, Wilkinsburg, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application August 31, 1948, Serial No. 47,046
44 Claims. (Cl. 303—3)



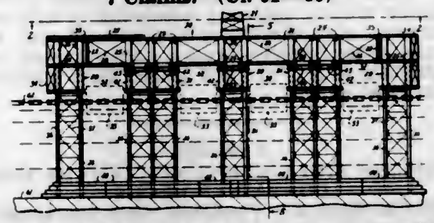
1. A vehicle brake equipment comprising in combination, a brake pipe, an emergency valve device operable upon a reduction in brake pipe pressure to an emergency position for effecting an application of brakes and operable upon supply of fluid under pressure to said brake pipe to a normal position for opening a fluid pressure supply communication to said brake pipe which communication is closed in said emergency position, and an operator's brake valve device having a brake application position and a position for releasing an application of brakes, and comprising means operable in said brake application position to effect a supply of fluid under pressure to said brake pipe and operable in said position for releasing an application of brakes to effect closing off of said supply of fluid under pressure to said brake pipe.

2,591,225

OFFSHORE PLATFORM

Harvey Ashton Wilson, Brazoria, Tex.

Application October 11, 1948, Serial No. 53,895
7 Claims. (Cl. 61—46)



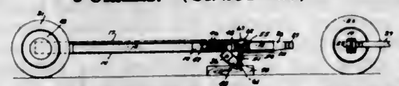
1. An off-shore working platform, comprising, a pre-fabricated articulated structure including a main platform section, a plurality of elongated pier members arranged about the perimeter of said platform section, hinged connections between the upper portions of said pier members and said platform section constraining said pier members to swing downwardly and inwardly about said platform section to support the latter from the bottom underlying a water body of limited depth, and hollow footing members of controllable buoyancy carried by the outer ends of said pier members, said footing members being shaped and dimensioned to cooperate when in position on said bottom to form a substantially continuous spread footing throughout the area of said platform section.

2,591,226

RAISING AND SUPPORTING JACK FOR TRAILERS

Albert R. Askue, Euclid, Ohio, assignor to The Cleveland Trencher Company, Cleveland, Ohio, a corporation of Ohio

Application November 12, 1948, Serial No. 59,558
3 Claims. (Cl. 254—86)



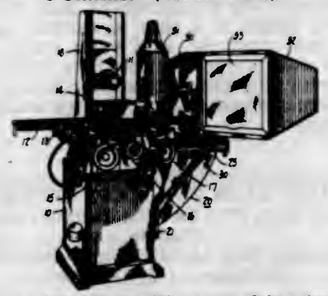
1. A mechanism mounted on a trailer frame to free a removable frame supporting axle of the weight of said frame and any load carried thereby and to lower such end of the trailer frame toward the trailer supporting surface and support the trailer following removal of said axle, said mechanism comprising a shaft journalled in and extending transversely of and below said frame, a pair of elongated shoes, each shoe having one end secured to said shaft and extending forwardly therefrom, resilient means tending to swing said shaft and retain said shoes normally in engagement with the lower face of said frame, hydraulic means to rotate said shaft and swing said shoes out of contact with the lower face of the trailer frame and into a ground engaging position to thereby relieve said removable wheels of the load of said trailer, each shoe comprising a substantially I-shaped member which in its normal position extends parallel with the trailer frame, each member having an upper flange substantially parallel with and in contact with the lower face of said frame and a lower flange portion substantially parallel with the trailer supporting surface whereby when the wheels are removed and the arms moved to their normal position said flanges may coact respectively with the trailer frame and a supporting surface to support the load independent of said shaft or hydraulic means.

2,591,227

COUNTERBALANCE FOR OPTICAL PROJECTION VIEWER FOR MACHINE TOOLS

George Banko, Euclid, Ohio

Application March 15, 1951, Serial No. 215,804
6 Claims. (Cl. 51—166)



1. In combination with a machine tool of the type having a transversely movable saddle and a longitudinally movable table mounted thereon, an auxiliary apparatus counterbalancer, comprising in combination, a bracket member adapted to be mounted on the base of the aforesaid machine tool in lateral relation of the said saddle, a transfer plate member rigidly mounted on the side of said saddle in sliding supported engagement with the said bracket member, and a carriage member rigidly mounted on one end of said table above the transfer plate in sliding supported engagement with the upper surface thereof and adapted to support auxiliary apparatus thereon extending beyond the end of said table, whereby, the overbalancing force of said auxiliary apparatus upon the table end is equalized and transferred to the machine tool base through the transfer plate and bracket in all possible relative positions of the saddle and table.

2,591,228

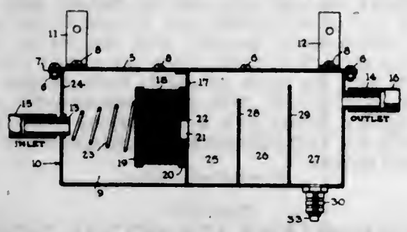
RUST REMOVER FOR COOLING SYSTEMS OF AUTOMOBILE ENGINES

Martin A. Beck, York, Pa.

Application August 10, 1949, Serial No. 109,567
4 Claims. (Cl. 241—39)

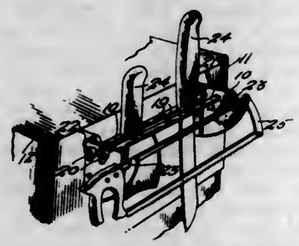
1. A device of the class described for removing suspended material particles from a flowing liquid stream, said device comprising a closed chamber, a partition wall extending through the interior of said chamber so as to form a closed disintegrating compartment therein, an inlet means communicating with said disintegrating compartment, said partition wall having an open-

ing therethrough, a hollow member within said disintegrating compartment and having perforated walls and an open end, means mounting said hollow member open end to said partition wall in sealed communication with said opening, said hollow member projecting inwardly from said partition wall toward the interior of said disintegrating compartment, whereby said liquid stream may flow from the exterior of said hollow member through the perforated walls thereof to



the interior of the hollow member and then through said partition wall opening, and any suspended material particles too large to pass through said perforated walls will be retained in the disintegrating compartment, said inlet means supplying liquid at a rate to agitate and disintegrate said particles, and baffle means in said chamber and projecting upwardly from the bottom thereof and disposed exterior to the said disintegrating compartment to provide settling compartments.

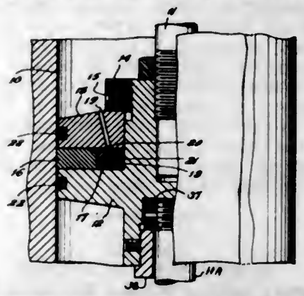
2,591,229
TOOL RACK FOR MEAT BLOCKS
Bernard Berg, Port Edward, British Columbia, Canada
Application May 16, 1946, Serial No. 670,250
4 Claims. (Cl. 211—60)



1. A tool rack for a butcher's block comprising a pair of vertically disposed end plates, said end plates having straight inner edges and arcuate outer edges, means removably securing said plates to a butcher's block in spaced parallelism relative to each other, a pair of supporting bars connecting said end members, said bars being spaced parallel to form a longitudinal knife seat, opposed arcuate notches provided in the upper portions of said plates forming saw-engaging recesses, and means preventing inward movement of said plates relative to each other, the axes of said bars lying in a horizontal plane.

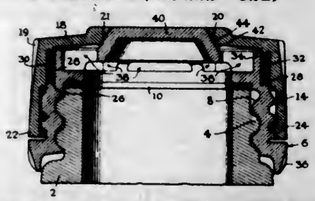
2,591,230
PISTON SEAL
Joseph V. Bertrand, Brooklyn, N. Y., assignor to Hydropress, Incorporated, New York, N. Y., a corporation of Delaware
Application January 6, 1949, Serial No. 69,587
3 Claims. (Cl. 309—31)

1. In a high pressure piston seal arrangement, the combination including a cylinder, a piston reciprocable in said cylinder, said piston having a plurality of grooves, a metal continuous seal ring in one of said grooves, said ring having a normal exterior diameter greater than said piston and cylinder when said cylinder is not subjected to pressure so that said ring is prestressed, a



conduit connected to said groove leading pressure from one side of said piston to said groove adapted to force said ring outwardly in tight engagement with a cylinder wall as said wall expands under pressure, and a porous metal ring in another of said grooves spaced from said first mentioned groove.

2,591,231
SEALING AND DISPENSING CLOSURE FOR CONTAINER NECKS
Odber E. Boadway, Pasadena, Calif., assignor to Innovations, Inc., Los Angeles, Calif., a corporation of Delaware
Application April 24, 1947, Serial No. 743,503
3 Claims. (Cl. 222—521)

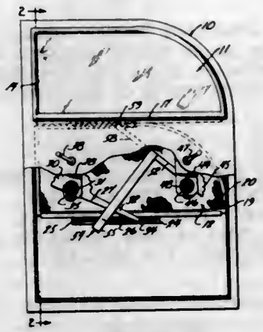


1. A closure for a container, comprising a neck portion having an exterior screw thread thereon, said screw thread being cut out near the top thereof for a substantial distance, such cut out providing an arcuate notch, extending for a substantial distance around the exterior of the neck, one end of said notch being formed into an abutment, a cap having no threads on the interior thereof, and provided on the interior thereof only with an inclined arcuate lug, extending for a susbtantial distance around the interior of the cap, said lug being adapted to pass through said cut out in the thread and into operative engagement with the root of the thread just below the cut out, whereby the rotational movement of the cap toward the open position is limited by the upper end of said inclined lug coming into engagement with said abutment, the cap being provided with a central outlet. and a centrally positioned plug carried by the neck, cooperating with said central outlet in the cap.

2,591,232
WINDOW SCREEN FOR VEHICLES
Vincent C. Brown, Big Stone City, S. Dak.
Application December 23, 1948, Serial No. 66,957
1 Claim. (Cl. 268—126)

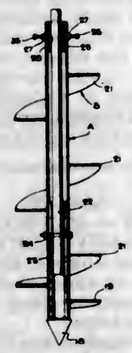
In a hollow automobile door formed with a window opening in its upper part having an open

frame therein and pairs of laterally spaced vertical guides extending along opposite sides of the window frame, a window glass vertically slidably in one pair of guides, a screen vertically slidable in the other pair of guides, said screen being positioned at one side of said window glass, a first horizontal channel located along and secured to the under side of the screen, a second horizontal channel secured to the under side of said window glass, a first shaft journaled in the door, a first gear segment pivoted on said first shaft having a first rigid arm having a free end engaged in said first channel, a second operating shaft journaled in the door substantially on a



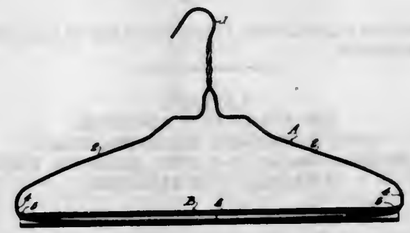
level with and at one side of said first operating shaft, a second gear segment pivoted on said second shaft having a second rigid operating arm including a free end slidably engaging said second channel, and operating handles journaled on the door having pinions in mesh with said gear segments, said first and second operating arms reaching toward each other from said first and second shafts, said second operating arm comprising a bridge on its free end reaching across the lower end of the screen and a vertical arm on said bridge constituting the said free end of the second operating arm, said vertical arm extending along the opposite side of the screen from said window glass.

2,591,233
EARTH AUGER
Kenneth J. Browne, Huntington Park, Calif.
Application January 21, 1947, Serial No. 723,368
5 Claims. (Cl. 255—69)



1. An earth auger comprising: a tubular spindle; a centering sleeve fixed in the upper end portion of said spindle; a second sleeve fixed in the lower portion of said spindle, and relatively heavy to lend additional weight to the lower portion of said spindle; a centering member fixed to and projecting axially from the lower end of said spindle; a boring blade secured to and extending spirally of the outer side of said spindle; a driving shaft for said spindle extending through the upper sleeve and into the second sleeve; a shearable element extending through said spindle and said second sleeve and said shaft for operatively connecting the spindle to the shaft for rotation thereby; and set screws adjustable in said spindle and centering sleeve for engaging the driving shaft to maintain a connection of the spindle with the shaft should said element shear.

2,591,234
GARMENT HANGER CONSTRUCTION
Joseph K. Burns, Londonbridge, Va., assignor to National Wire Hanger Manufacturing Co., Inc., Norfolk, Va., a corporation of Virginia
Application June 7, 1949, Serial No. 97,506
2 Claims. (Cl. 223—88)



2. In a garment hanger, a stiff wire or the like member including downwardly diverging side portions and a bottom portion connecting the lower ends of said side portions, said side and bottom portions conjointly forming a substantially triangular unit; and a tube surrounding said bottom portion throughout its extent, the internal diameter of said tube being materially greater than the diameter of said member, and the bottom portion of said member being bowed so that an intermediate part thereof presses resiliently downwardly against the central portion of the bottom of the tube with resultant upward pressing of parts of said member against the tops of the ends of said tube.

2,591,235
INDIVIDUAL VERTICAL-TYPE FUEL-BURNING HEATER
William G. Cartter, Monrovia, Calif., assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Application May 7, 1948, Serial No. 25,763
11 Claims. (Cl. 126—91)

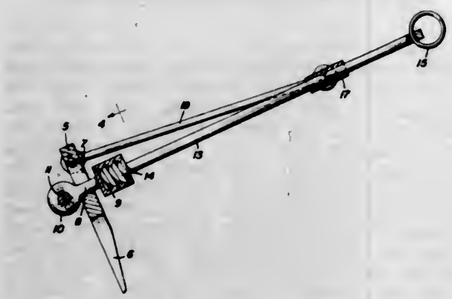
1. In a vertical-type space heater, a base assembly comprising walls forming a combustion chamber, a gas burner disposed in said combustion chamber, a hollow, vertical, tubular heating element fixedly supported upon the base assembly communicating at its lower end with the combustion chamber above the burner, a vent above the upper end of the heating element, a reflector assembly including a reflector extending substantially throughout the height of said heating element and partially therearound, upper and lower end elements fixed to said reflector and encircling said heating element to limit horizontal separation of said assembly from said heating ele-

ment, and means for rotatably supporting said reflector assembly by said base assembly for



rotatable adjustment about the axis of said heating element.

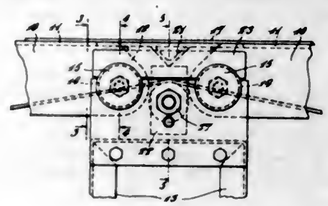
2,591,236
ANTIFOULING ANCHOR
Cleve F. Christie, Knoxville, Tenn.
Application December 6, 1949, Serial No. 131,274
3 Claims. (Cl. 114—208)



1. An anti-fouling anchor comprising a shank, a ground engaging fluke, rotatably actuated means rigidly connecting the shank to the fluke, said means being released by a turning movement of the shank while the fluke remains stationary, a rod connected at one end to the fluke, and a sleeve slidably connecting the rod to the shank to hold the shank and fluke connected to each other in separated position.

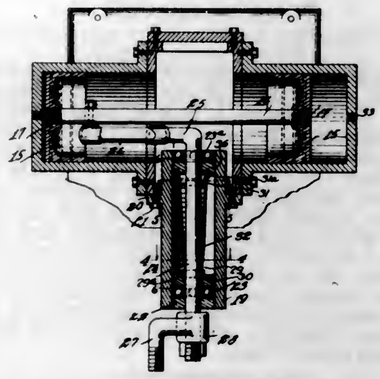
2,591,237
CONVEYER
Leslie Alfred Collis, Radlett, England
Application October 19, 1949, Serial No. 122,187
In Great Britain October 4, 1948
3 Claims. (Cl. 198—204)

1. A belt conveyor comprising a plurality of conveyor sections each comprising a pair of side members, a table joining said side members, extensions at each end of said side members and plugs outstanding from said extensions, supports for supporting said conveyor sections end to end, double cradles on said supports to receive the plugs on the juxtaposed ends of adjoining conveyor sections, bridge pieces bridging the gaps between the tables of adjoining conveyor sections, double yokes on said bridge pieces bearing on the



plugs in the associated cradles, means for securing said bridge pieces to said supports to lock the plugs in the cradles, and a single endless belt extending the whole length of the conveyor.

2,591,238
HERMETICALLY SEALED COMPRESSOR AND VACUUM SYSTEM
John J. Davis, Lacombe, La.
Application May 14, 1946, Serial No. 669,686
2 Claims. (Cl. 308—187.1)

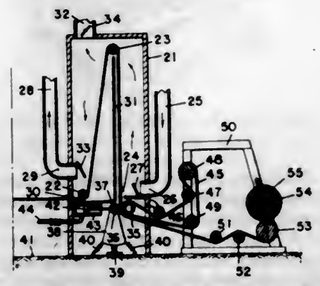


1. A sealing construction for use with a rocking shaft within a hollow housing comprising roller bearing units mounted in the ends of said housing and receiving the shaft, a sealing cap carried by one end of the housing outwardly of one of the bearing units at the end of the housing and receiving the shaft, collars on the shaft inwardly of the roller bearing units, oval recesses in the inner faces of the collars, oval shaped fastening means seated in the recesses and a flexible membrane composed of a plurality of oval shaped slidable ring shaped members fixed at the opposite ends to said collars by said fastening means.

2,591,239
3-METHOXY-4-METHOXYMETHYL TETRAHYDROPYRAN
Otis C. Dermer and John J. Hawkins, Stillwater, Okla., assignors to Cities Service Research and Development Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 5, 1949, Serial No. 119,762
5 Claims. (Cl. 260—333)

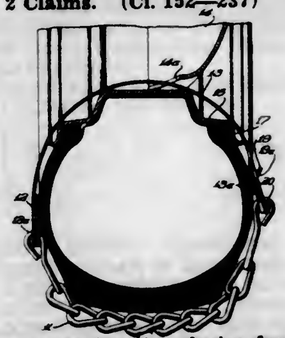
1. 3 - methoxy - 4 - methoxymethyltetrahydropyran.

2,591,240
APPARATUS FOR PRODUCING AN EMBOSSED COATING ON SHEET MATERIALS
Marvin W. Ditto, New York, N. Y., and Richard H. Hugger, Ridgewood, N. J., assignors to Cordo Chemical Corporation, Norwalk, Conn., a corporation of Connecticut
Original application September 25, 1947, Serial No. 776,132. Divided and this application July 19, 1949, Serial No. 105,562
7 Claims. (Cl. 118—101)



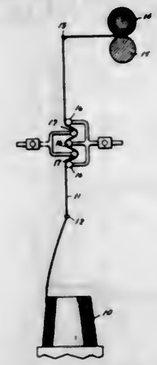
1. In an apparatus of the character described, a fusion oven, said oven having an inlet opening, means for guiding a web through said inlet opening and through the oven, means for introducing a heated gas into and for discharging the heated gas from the oven, said oven having a web outlet, a cooled roll arranged in close proximity to said outlet, guide rolls, an embossing belt passing about said guide rolls and said cooled roll, a pressure roll to force the web toward the cooled roll, means for pressing the pressure roll toward the cooled roll, and means for drawing the web through the oven and between the cooled and pressure roll.

2,591,241
SKID CHAIN
George E. W. Drechsel, Chicago, Ill.
Application April 27, 1949, Serial No. 89,900
2 Claims. (Cl. 152—237)



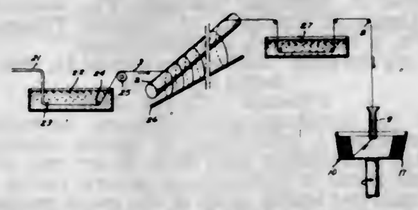
1. An emergency traction device for a vehicle wheel comprising, a plurality of spaced road engaging elements, a tie bar directly secured on each end of said elements, a strap formed in a loop configuration to encompass a portion of the vehicle wheel attached to one of said tie bars, said strap defining a plurality of spaced slots near its free end, the other of said tie bars having an outwardly turned flange defining an opening to receive the free end of said strap in confining relationship, said other of said tie bars also having an outwardly turned lug spaced from said flange selectively received in one of said spaced slots in said strap, thereby to form a locked-together closed loop.

2,591,242
PROCESS FOR THE MANUFACTURE OF YARNS FROM HYDROXYLATED POLYVINYL COMPOUNDS
Nicolas Drisch and Paul Herrbach, Paris, France, assignors, by mesne assignments, to Textile and Chemical Research Company Limited, St. Peter Port, Guernsey, Channel Islands, a corporation of Great Britain
Application January 19, 1950, Serial No. 139,458
In France February 1, 1949
5 Claims. (Cl. 18—54)



1. The method of producing spun yarns from aqueous solutions of polyvinyl alcohol which comprises spinning said solution into a concentrated aqueous saline solution, stretching the spun filaments during the spinning operation, winding the yarn thus produced onto a package, drying the package to produce a yarn having adherent powder thereon, and rewinding the yarn from said package while passing the yarn with the adherent powder thereon over stationary friction members to scrape the adherent powder from the surface thereof.

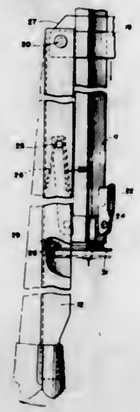
2,591,243
PROCESS FOR THE MANUFACTURE OF RAYON FROM VISCOSE WITH HIGH ELONGATION AND SPOOLING IN CENTRIFUGAL CUPS
Nicolas Drisch and Roland Brepson, Paris, France, assignors, by mesne assignments, to Textile and Chemical Research Company Limited, St. Peter Port, Guernsey, Channel Islands, a corporation of Great Britain
Application June 17, 1950, Serial No. 168,674
In France February 21, 1947
4 Claims. (Cl. 18—54)



1. The method of making rayon filament from viscose which comprises feeding the rayon filament through a coagulating bath without stretching, removing the filament from the coagulating bath, then stretching the filament at a stretching station and subsequently holding the stretched filament under non-stretching conditions for a period of at least three seconds while conveying the stretched filament from the

stretching station to a winding station so as to allow complete relaxation and relief of internal strains before winding and then winding the said filament.

2,591,244
PORTABLE SCREEN STAND
Leo J. Du Mais, Chicago, Hugo Bernzott, Niles, and Frank J. Prokop, Chicago, Ill., assignors to Da-Lite Screen Company, Inc., Chicago, Ill., a corporation of Illinois
Application March 15, 1951, Serial No. 215,818
13 Claims. (Cl. 160—24)

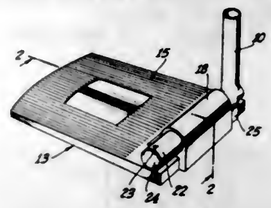


1. A portable screen stand, comprising a tubular standard, an extension rod telescoping therein, a screen reel case pivotally mounted on said standard, a bracket arm mounted on the free end portion of said extension rod, means for interlocking said bracket arm and one end of said case when said case is in approximately parallel relation to said standard said extension rod being depressable into said standard, a spring normally urging said extension rod outward from such depressed position, latch means acting between said standard and said extension rod to secure the rod in such depressed position, a tripod connected to one end of said standard and having legs foldable against said standard, and spring-pressed latch means acting between said standard and tripod to hold the legs folded against said standard.

2,591,245
ALUMINUM PASTE PIGMENT
Junius D. Edwards, Oakmont, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application August 11, 1948, Serial No. 43,760
5 Claims. (Cl. 106—290)

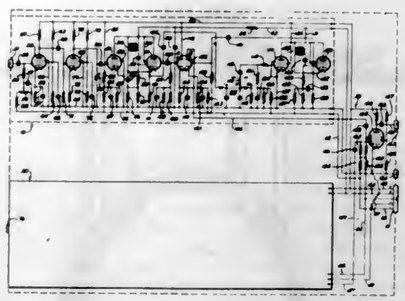
4. An aluminum paste pigment formulation comprising a main body of leafing aluminum flakes constituting from 68 to 85 per cent of the paste, about 14 to 28 per cent mineral spirits, and at least one leafing agent of the group consisting of stearic and palmitic acids, said leafing agent having been added at least in part in solid phase in amounts between 1.0 to 4.0 per cent of the total weight of the pigment formulation and the paste formulation wet polished for a period of about 1 to 12 hours at a temperature below about 110° F., and said pigment formulation being characterized by improved stability, brightness and specular reflectivity.

2,591,246
ADJUSTABLE FOOTREST FOR WHEEL CHAIRS AND THE LIKE
Herbert A. Everest and Harry C. Jennings, Los Angeles, Calif.
Application March 1, 1948, Serial No. 12,316
4 Claims. (Cl. 155—171)



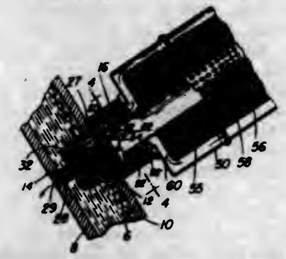
3. A friction hinge between a pintle and a member mounted for swinging movement relative thereto comprising a sheath on the member adjacent the pintle and a spring between the pintle and the sheath, said spring having a plurality of integrally connected angularly related sides each of which is flexed about the pintle and bears against the pintle intermediate its side edges and against the interior of the sheath at its side edges.

2,591,247
COINCIDENCE AMPLIFIER
Hugh D. Farnsworth, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application February 27, 1948, Serial No. 11,605
5 Claims. (Cl. 250—27)



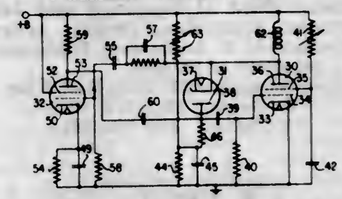
5. In a coincidence counting device, the combination comprising at least two amplifier channels, each of said channels having a first oscillator connected to a source of voltage pulses, a first triode tube with its control grid coupled to an output of said first oscillator for charging a condenser in its cathode circuit each time said oscillator is activated, a delay line connected to said output of said oscillator, a second oscillator connected to said delay line for forming a pulse of voltage at a predetermined time later, and a second triode tube with its control grid connected to the output of said second oscillator and its anode connected to said condenser whereby said condenser is discharged each time said second oscillator is activated forming a voltage of variable duration across said condenser, and means connected to said condenser of each channel for developing an output voltage only when said condensers are each charged.

2,591,248
LUBRICATING OIL FILTER MOUNTING
Paul L. Francois, Short Hills, N. J.
Application November 30, 1949, Serial No. 130,164
2 Claims. (Cl. 210—94)



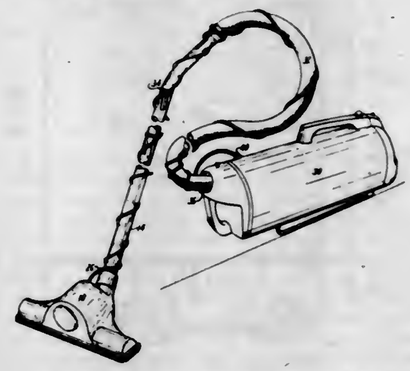
1. In combination with the crank-case wall of an internal combustion engine having an oil gallery provided with an opening in its outer wall and with a threaded hole extending from the oil gallery into the engine crank-case, a renewable oil filter having an externally threaded end provided with inlet and outlet passages, and a filter mounting comprising a body portion having an internally threaded cavity adapted to receive the externally threaded end of said oil filter, a cylindrical portion extending from said body portion and adapted to enter and fit the opening in the outer wall of the oil gallery, and an externally threaded tip extending from said cylindrical portion and adapted to cooperate with the threaded hole extending from the oil gallery into the crank-case, said body and cylindrical portions being provided with an oil-supply passage effecting the flow of oil from the oil gallery to said threaded cavity and to the inlet passages of the filter, and said cylindrical portion and said tip being provided with an oil-return passage effecting the flow of oil from the outlet passage of the filter and from said cavity into said crank-case.

2,591,249
TRANSFORMERLESS SAW-TOOTH CURRENT GENERATOR
Robertson R. Gannaway, Oak Park, Ill., assignor to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application June 28, 1946, Serial No. 679,926
7 Claims. (Cl. 250—36)



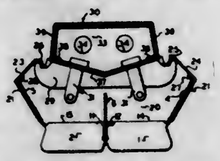
1. A generator for producing current of sawtooth wave form in an inductive load comprising a first electron discharge valve having a plate, a control grid, and a screen grid, means for applying a voltage to said screen grid, a second electron discharge valve having an input electrode coupled to said plate of said first electron discharge valve and an output electrode coupled to said control grid of said first electron discharge valve to provide regenerative action therebetween, a rectifier coupled to said first electron discharge valve to provide a low resistance degenerative coupling between said plate and said control grid thereof when said rectifier is conducting, the current through said first electron discharge valve and the current through said rectifier combining to provide increasing current in said load until the maximum current capacity of said first electron discharge valve is reached when said regenerative action of said second electron discharge valve causes said current to fall, the amount of voltage applied to said screen grid controlling the maximum current capacity of said first electron discharge valve to thereby control the maximum load current and the natural period of said generator.

2,591,250
SUCTION CLEANER WITH SELF-RETRACTING ELECTRICAL CORD
Dale C. Gerber, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application November 18, 1947, Serial No. 786,770
3 Claims. (Cl. 15—323)



1. A suction cleaner comprising, a hand tool having an electrically energized adjunct associated therewith and a manipulating wand for manipulating the hand tool, a source of suction, a source of electrical energy adjacent to said source of suction, a flexible hose connecting said wand to said source of suction and a coiled self-retracting electrical conductor for connecting said electrically energized adjunct to said electric energy source, the arrangement being such that the convolutions of said conductor loosely encircle said wand in closely spaced loops for storage purposes and closely encircle said wand and hose in wide loops when said hand tool is connected for use.

2,591,251
FLUORESCENT LIGHTING FIXTURE WITH LIGHT BAFFLES
Louis Gilman, Brighton, Mass.
Application December 23, 1949, Serial No. 134,810
6 Claims. (Cl. 240—51.11)



1. A lighting fixture comprising an integral structure formed with side plates and a plurality of transverse baffle plates joined in aligned pairs extending parallel to one another from one side plate to the other, connecting strips having a 90° twist joining each pair of baffle plates at their ends to said side plates, said twist permit-

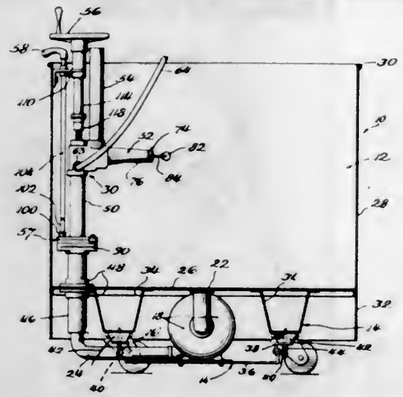
ting the baffle plates to be positioned in a vertical plane with the fixture horizontal, a connecting strip extending from adjacent ends of each baffle element of each pair connecting said baffles with a space therebetween, a central plate extending lengthwise of said fixture filling said space and tab elements extending from said adjacent ends and engaging in holes in said central plate overlapping each other for fixing the central plate in place.

2,591,252

PORTABLE HYDROTHERAPY APPARATUS

Warren E. Gilson, Madison, Wis., assignor to The Burdick Corporation, Milton, Wis., a corporation of Delaware

Application May 19, 1947, Serial No. 748,967
9 Claims. (Cl. 4—180)



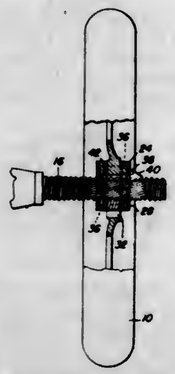
1. Hydrotherapy apparatus including a tank, a liquid inlet conduit entering said tank through the lower part thereof having a vertically extending portion within said tank, a pump external of said tank for supplying liquid under pressure to said conduit, and an aeration injection unit movably supported within said tank having a conduit in telescoping relation with said vertically extending portion.

2,591,253

WHEEL ADJUSTER

Martin R. Grismore, Pandora, Ohio

Application March 14, 1949, Serial No. 81,280
1 Claim. (Cl. 301—1)



For use on a vehicle which has an axle with a threaded end portion and a wheel, means for adjusting the wheel longitudinally of the axle comprising a hub portion on said wheel having a substantially semi-cylindrical threaded surface disposed on the threaded end portion of the axle, said wheel having an opening therein adjacent said hub portion, and a complemental hub portion removably carried by said first-mentioned hub portion and disposed in said opening, said complemental hub portion having a threaded surface disposed on the threaded end portion of said axle, means secured to said hub portions for removably fixing said hub portions together, one of said threaded surfaces having a slot therein extending longitudinally of the threaded end portion of the axle, said slot being tapered with the deeper part thereof opening through the end of said hub portion having said slot and said end of said hub portion being on the outside surface of the wheel, said threaded end portion of said axle being provided with a slot arranged to register with the first mentioned slot, and a pin insertable in said slots from the outside surface of the wheel to hold said hub portions releasably coupled to the threaded end portion of the axle.

2,591,254

METHOD FOR PRODUCING RUBBER POLYMER-SULFUR DIOXIDE FILAMENTS

Johannes Thomas Hackmann, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application December 31, 1949, Serial No. 136,409. In the Netherlands March 24, 1949

6 Claims. (Cl. 18—54)

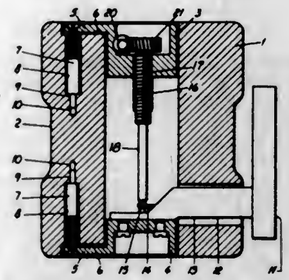
1. In a process for producing filaments wherein a solution of a rubbery polymer of a conjugated diolefin is spun into a coagulating bath containing available sulfur dioxide wherein the polymer reacts with the sulfur dioxide to form a filamentary reaction product which is then withdrawn from the bath, the step comprising adding to said polymer solution from about 0.05 to 5%, in terms of the weight of polymer present in the solution, of a chlorine oxide.

2,591,255

APPARATUS FOR MEASURING HIGH PRESSURES

Carl Gustaf Hård af Segerstad and John-Erik Magnusson, Sandviken, Sweden, assignors to Aktiebolaget C. E. Johansson, Eskilstuna, Sweden, a company of Sweden

Application December 23, 1946, Serial No. 717,990
In Sweden March 3, 1945
6 Claims. (Cl. 73—141)



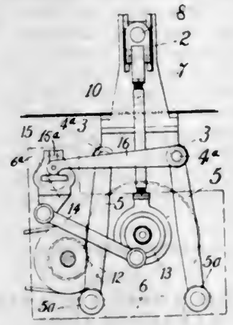
1. A measuring apparatus for measuring high pressures or forces, comprising in combination a substantially tubular body of a resistant and elastic material having an axial hole passing entirely through said body from one end to the other end thereof and having a second hole in a direction substantially transverse to the axis of said body and leading from the axial hole therein through the wall of said body to the circumferential surface thereof, said body being adapted to be subjected in its axial direction to the action of the pressure or force to be measured, bridge members at the ends of said body positioned inside the end surfaces thereof in the transverse direction to the axis of said body, abutment surfaces for supporting said bridge members located in the tubular wall of said body at points spaced from one another in the axial direction of said body, a length measuring instrument positioned outside said body, a bracket secured to one of said bridge members at one end of said body and extending through said transverse hole in said body and supporting said measuring instrument outside said body, said measuring instrument having a feeler member extending through said transverse hole into said axial hole in said body, and an adjustment stem located in the axis of said body and adjustably attached to the bridge member at the other end of said body so as to be adjustable in the axial direction of said body, said adjustment stem cooperating with said feeler member of said measuring instrument.

2,591,256

BISCUIT CUTTING MACHINE AND THE LIKE

John Hart, Peterborough, England, assignor to Baker Perkins Incorporated, Saginaw, Mich.

Application April 29, 1947, Serial No. 744,602
In Great Britain May 8, 1946
4 Claims. (Cl. 107—24)



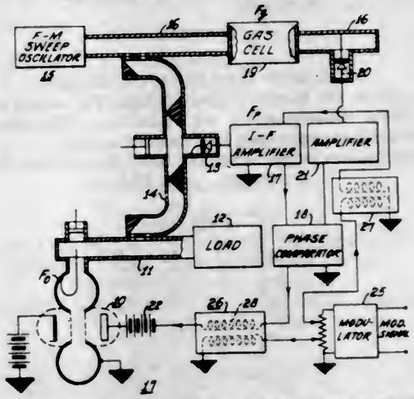
1. A machine for cutting or cutting and embossing biscuits from a travelling dough web, comprising a cutter head including a table carriage, and a cutter bar, means for reciprocating the cutter bar relatively to the cutter head to provide a cutting stroke, said means including a member having a pivotal axis on said cutter bar, a mounting for the cutter head comprising spaced link frames pivoted at their upper ends to the table carriage and pivoted at their lower ends to a machine framing, means for oscillating the link frames about their lower pivots to reciprocate the cutter head in the direction of travel of the dough web, said link frames converging upwardly so that planes containing their longitudinal axes intersect in a line located at a position relative to the pivotal axis of the cutter bar such that the amplitude of movement of the cutter bar in the direction of travel of the dough web is less than that of the table carriage while avoiding excessive rocking of the cutter head.

2,591,257

STABILIZATION OF FREQUENCY-MODULATED OSCILLATORS

William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application November 30, 1948, Serial No. 62,626
16 Claims. (Cl. 332—19)



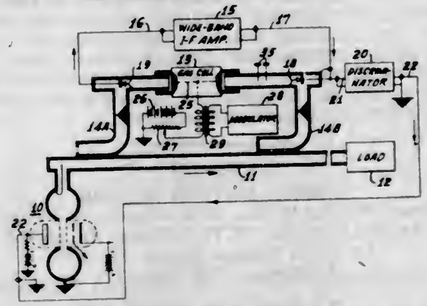
2. A system for stabilizing a frequency-modulated oscillator comprising means for providing a set-point frequency, a closed feedback loop for applying to said oscillator a frequency-correction signal varying as a function of the difference between the set-point frequency and the oscillator frequency, and tuning means for shifting the set-point frequency concurrently with modulation applied to the oscillator and to extent substantially corresponding with the change in oscillator frequency producible by the modulation with said feedback loop open.

2,591,258

FREQUENCY STABILIZATION BY MOLECULARLY RESONANT GASES

William D. Hershberger, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

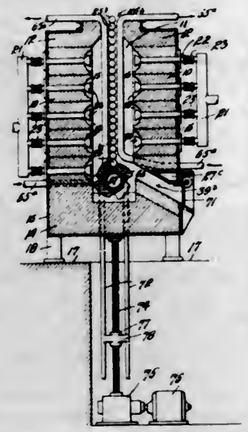
Application April 14, 1949, Serial No. 87,496
16 Claims. (Cl. 250—36)



1. A system for stabilizing the frequency of a radio frequency generator at a desired operating frequency comprising a cell containing gas exhibiting molecular resonance at a different frequency from said operating frequency, an intermediate frequency amplifier, means coupling said generator to said gas cell, means coupling said intermediate frequency amplifier to said gas cell to provide sustained oscillations in said amplifier at an intermediate frequency equal to the algebraic sum between the resonant frequency of

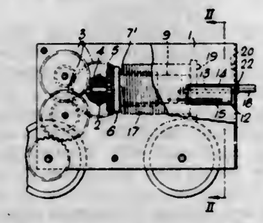
said gas cell and the frequency of said generator, a discriminator tuned substantially to said intermediate frequency and responsive to said sustained oscillations for deriving control signals characteristic of the frequency of said oscillations, and means responsive to said control signals for varying the frequency of said generator to maintain substantially constant said oscillator operating frequency.

2,591,259
BILLET HEATING FURNACE
Frederic O. Hess, Philadelphia, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application September 26, 1946, Serial No. 699,416
2 Claims. (Cl. 263—6)



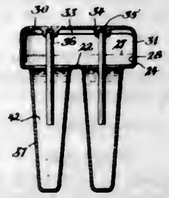
1. A billet heating furnace comprising means providing a refractory lined chamber having spaced apart side walls forming a vertically extending channel therebetween, holding means including notched rotatable cam means operable to act against the bottom billet of an upright stack of billets adapted to be maintained in the channel, said chamber having inlet and outlet openings for the billets at the upper and lower ends, respectively, of the channel, means to transport the stack of billets vertically downward through the channel including mechanism operable to rotate the notched cam means to intermittently remove the bottom billet from the stack, and means for firing said chamber to heat the billets to an elevated temperature during transport through the channel.

2,591,260
SPRING-DRIVEN MOTOR
Edward Walter Hobbs, Rickmansworth, England
Application May 27, 1948, Serial No. 29,524
In Great Britain March 19, 1948
8 Claims. (Cl. 185—37)



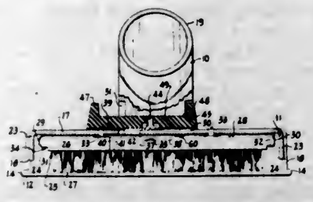
1. A spring motor comprising a helical torsion spring, a pair of rotary anchorage members to which the ends of the spring are secured, an input driver to drive rotatably one of said anchorage members relative to the other so as to store up energy in the spring, and feed screw means connected across the said two members, said feed screw means having a pitch the same as that of the said helical spring, so that during said driving of one anchorage member relative to the other it produces a controlled axial separation of the two anchorage members at a rate which is always at a fixed ratio to the rate of change in diameter of the spring so as to cause the spring to contract its diameter uniformly throughout its effective length during loading whilst maintaining a uniform pitch of the convolutions thereof.

2,591,261
CONFECTION MOLD
Robert E. Holahan, Rochester, N. Y.
Application November 30, 1949, Serial No. 130,165
2 Claims. (Cl. 107—19)



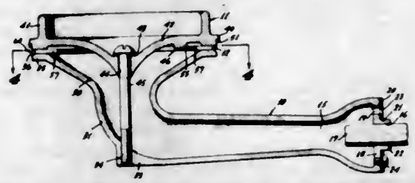
1. In combination with a confection molding tray for congelation purposes having a peripheral wall extending upwardly from the upper portion of said tray a cover member having a top wall and peripheral side walls depending therefrom, said top wall of the cover member having means lying above the tray and adapted to retain an end of a confection stick adjacent the inner face of the top wall so as to depend into the tray and means for interengaging the peripheral walls of the tray and cover member against lateral displacement from each other, the combined extent of the peripheral walls being at least the width of a human hand so that the stick when set in the confection will have a free portion for handling purposes.

2,591,262
ADJUSTABLE BRUSH IN A SUCTION CLEANING TOOL
Warren A. Humphrey, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 7, 1946, Serial No. 695,414
2 Claims. (Cl. 15—373)



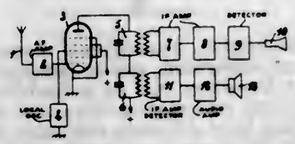
1. A cleaning tool comprising a body, a suction nozzle in said body, a brush adjustably mounted on said body, means for adjusting said brush relative to said body to different positions, said brush adjusting means including a member movable on said body and having spaced manually-operated means for moving said member relative to said body to adjust said brush to its different operating positions, and spaced recesses in said body each adapted to receive one of said manually operated means when said brush has been moved to one of its adjusted positions with the other of said manually operated means out of its respective recess.

2,591,263
GRID GAS BURNER
Richard E. James, Pasadena, and Albert J. Lampert, Walnut, Calif., assignors to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application April 18, 1947, Serial No. 742,244
5 Claims. (Cl. 158—116)



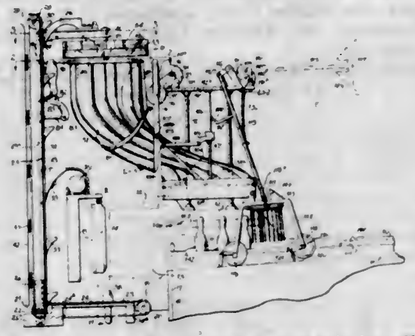
5. A burner comprising a combination of a horizontal inlet pipe section curved upwardly into a conical burner section, said conical section terminating in a peripheral flange, the axis of said conical section being vertical, a cap having a depending conical portion disposed within and above said conical section, thereby forming an outwardly flaring passage bounded by substantially conical surfaces and having a substantially uniform flow cross section, a peripheral flange formed on the under surface of said cap, the under surface of said peripheral flange lying in a plane below the highest point of the upper surface bounding said passage, the inner edges of said flanges being positioned substantially one above the other, a substantially flat annulus disposed in a plane between said two named flanges having a major diameter less than the diameter of said inner edges and having a plurality of radial fingers extending outwardly from said major diameter disposed between, and serving to space, said flanges, whereby laminar air-gas flow is effected through said inlet sections into said passage and around said annulus, the converging of the flow thus separated by said annulus effecting an air-gas mixing turbulence between said fingers.

2,591,264
TELEVISION RECEIVER
Peter Johannes Hubertus Janssen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 19, 1948, Serial No. 39,473
In the Netherlands August 14, 1947
5 Claims. (Cl. 178—5.8)



4. In a television receiver adapted to derive image oscillations from a first intercepted carrier wave and sound oscillations from a second intercepted carrier wave, the combination comprising a source of local oscillations of constant frequency, an electron discharge tube having an input circuit and an output circuit, means to apply said first and second intercepted carrier waves and said local oscillations to said input circuit, a first parallel resonant circuit coupled to said output circuit and tuned to a frequency having a value equal to the algebraic sum of the frequency of said first carrier wave and the frequency of said local oscillations to derive a first intermediate frequency wave from said output circuit, and a second parallel resonant circuit coupled to said output circuit and tuned to a frequency equal to the algebraic sum of the frequency of said second carrier wave and a multiple harmonic of the frequency of said local oscillations to derive a second intermediate frequency wave from said output circuit.

2,591,265
BOWLING ALLEY SWEEPER MECHANISM
Henry S. Johns and William H. Johns, Cleveland Heights, Ohio
Application December 27, 1944, Serial No. 569,962
8 Claims. (Cl. 273—54)

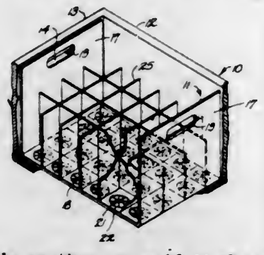


1. In an apparatus for the automatic handling of balls and pins in a bowling alley comprising a pit, which apparatus includes means for sweeping dead wood into said pit, said means comprising frames having supports at the lower ends thereof adapted to ride upon the bottoms of the gutters, a cross frame connecting the top portions of the first mentioned frames, plates rotatably supported by the cross frame for movement in a substantially horizontal plane, brush elements depending from the said plates, means for rotating the said plates, and means for moving the brush assembly comprising the aforesaid frames and elements along the alley toward the pit to engage the brushes with any fallen pins thereby to deliver the pins into said pit, and for thereafter removing the assembly from the active portion of the alley.

2,591,266
BOTTLE CRATE AND LINER THEREFOR
Joe Kuchel, Arlington, Va.
Application December 5, 1947, Serial No. 789,889
4 Claims. (Cl. 217—19)

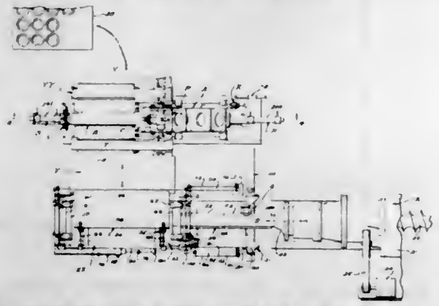
2. In a bottle case of the type described having a bottom structure provided with a plurality of relatively spaced circular openings, the improvement comprising a liner in said case and said liner comprising a rectangular shaped blank having a bottom portion and oppositely disposed end portions, circular recesses in the lower surface of the bottom portion, and slits in the upper surface of the bottom portion forming V-shaped sections which overlie the recesses in the lower

surface thereof, and said recesses overlying the openings in the bottom structure of the case so



that a bottle resting on said V-shaped sections may be pushed therethrough outwardly of the bottom through the openings therein.

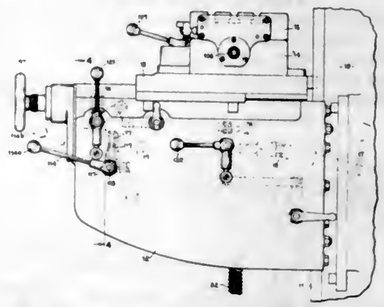
2,591,267
MACHINE FOR FORMING CLAY PIPES WITH BELL-SHAPED ENDS
Roy Lacy, Los Angeles, John D. Rossier, Compton, and Cecil V. McClintock, deceased, late of Los Nietos, Calif., by Hazel C. McClintock, executrix, Los Nietos, Calif., assignors to Pacific Clay Products, Los Angeles, Calif., a corporation of California
Application January 15, 1949, Serial No. 71,162
43 Claims. (Cl. 25—30)



1. In a pipe forming machine, an extruder continuously delivering an elongate tubular body of malleable material, a carrier receiving the body as it is formed and supporting it as it moves away from the extruder, a cutter acting on the body carried by the carrier to cut therefrom a blank of predetermined length, transfer means receiving the blank from the carrier and delivering it to a predetermined position where it is accessible to be worked upon, shaping means acting on an end of the blank in said position, and control means governed by the body delivered by the extruder and synchronizing the operation of the cutter and the operation of the shaping means with that of the extruder.

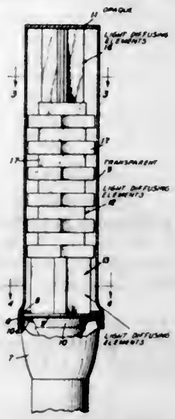
2,591,268
MILLING MACHINE TRANSMISSION CONTROL MECHANISM
Richard Knight Le Blond, Cincinnati, and Harry C. Kemper, Goshen Township, Clermont County, Ohio, assignors to The R. K. Le Blond Machine Tool Company, Cincinnati, Ohio, a corporation of Delaware
Original application June 16, 1950, Serial No. 168,462. Divided and this application April 24, 1951, Serial No. 222,696
4 Claims. (Cl. 74—337.5)

1. In a change speed transmission having, a transmission housing, a gear set, a pair of shiftable members in said gear set, a single lever control mechanism for shifting said members comprising, an axially slidable and rockable shaft carried in the change speed transmission housing, a handle rigidly fixed on the outer end of said shaft, a shifter spool fixed on the inner end of said shaft engaging a shifter yoke movably mounted in said housing, means for connecting said yoke to a shiftable member in said transmission, a shifter cam drum located between said



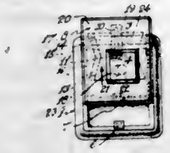
lever and said spool relatively axially slidable on and supported by said slidable and rockable shaft, means carried by said housing for restricting axial movement of said cam drum relative to said housing while allowing rotary movement thereof by the rocking motion of said shiftable and rockable shaft, a cam track in said cam drum, shifting lever mechanism actuated from said cam track upon rocking rotation of said handle, and means for connecting said shifter lever mechanism to shifting members in said change speed transmission.

2,591,269
SIGNALING WAND FOR FLASHLIGHTS
Frank Lehoczki, United States Army
Application August 28, 1950, Serial No. 181,864
3 Claims. (Cl. 177—329)



2. A flashlight attachment comprising a transparent elongated casing adapted for attaching to the outer end of a flashlight barrel, an opaque end wall closing the outer end of the casing, and a light diffusing structure in the casing having the property of conducting light and composed of a plurality of units each constructed to provide flat edge portions positioned parallel to the axis of the casing to reflect diffused light from the flashlight at the sides of the casing.

2,591,270
SAFETY LOCKBOX
Anthony Levereth, Belleville, N. J.
Application September 24, 1948, Serial No. 50,980
10 Claims. (Cl. 206—1.5)



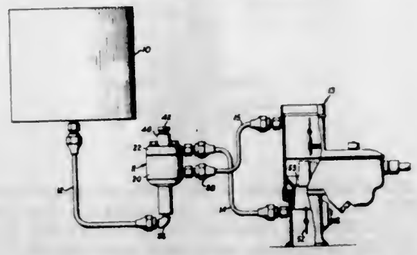
1. A safety lock box including, a box portion with a dove-tail part at one end and a combination lock stud at the opposite end, this stud having a stop portion terminating in a locking head, a cover for the box portion, said cover being composed of three plates, the inner plate having a dove-tail notch at one end to receive said dove-tail part on the box and a slot at the opposite end extending toward said notch and terminating in an opening large enough to pass said locking head on the combination stud, a middle plate having a recess therein to receive a locking control slide, an outer plate having a transverse slot therein to receive an operating stud, an operating member slidably mounted on the outer plate and carrying an operating stud passing through the slot in the outer plate and a slide located in the recess in the middle plate and connected to said operating stud, the slide and middle plate having co-operative formations limiting the movement of the slide between locking and unlocking positions such that when the operating member is in locking position said slide has one edge located closely in front of the locking head of said lock stud to lock the cover to the box, the operating slide also having an open-ended longitudinal slot positioned therein so when the slide is in unlocking position said slot therein will be over the slot in the inner plate to allow the whole cover plate to be moved so as to free the dove tail lock and allow the cover to be turned about said combination stud to open the box.

2,591,271
SAFETY LOCKBOX
Anthony Levereth, Belleville, N. J.
Application January 26, 1949, Serial No. 72,909
8 Claims. (Cl. 206—1.5)



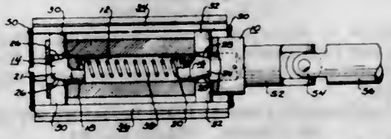
1. A safety lock box including a receptacle portion having a bottom, front, rear and side walls and a cover therefor, a hinge joining the cover to the rear wall of the receptacle, a slide carried by the cover and located on its inner surface, an operating member slidably mounted on the outer surface of the cover and having a stud passing through the cover and anchored to the slide, the cover having a slot therein for lateral movement of said stud, interengaging parts carried on the free portion of the cover opposite the hinge and on the inner front wall of the receptacle for latching said receptacle and cover when in closed position, means located on a side wall of the receptacle to receive the end of said slide to prevent the cover from longitudinal shifting motion when in closed position, said hinge being generally angular in shape with pins extending laterally from both edges of its opposite ends, while the box and cover each has a recess therein to receive their respective hinge ends and pins to allow a small rearward and upward movement of the cover to free said interengaging parts whereby the cover may be moved on the hinge to open position.

2,591,272
WATER INJECTING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Lyman L. Littlejohn, Glendale, and John C. Gullett, Arbuckle, Calif.
Application June 23, 1947, Serial No. 756,372
2 Claims. (Cl. 123—25)



1. A metering device for controlling the injection of water into a carburetor having an air intake, a valve for controlling the intake of air and a venturi disposed between said air intake and said carburetor valve, said metering device having an inlet and a discharge and a valve interposed between said inlet and discharge, a high pressure and a low pressure chamber and a diaphragm interposed between said chambers and adapted upon changes of pressure differential to control said valve, and a conduit pneumatically connecting said low pressure chamber to said carburetor at a point between said venturi and air intake control valve.

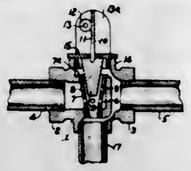
2,591,273
MECHANISM FOR FINISHING CYLINDRICAL SURFACES
Louis Lowy and Stanley R. Emig, Detroit, Mich.
Application March 5, 1949, Serial No. 79,802
1 Claim. (Cl. 77—76)



A cutting tool for forming a true cylindrical axially straight smooth surface in a cylinder comprising a body member adapted to be simultaneously rotated and reciprocated and having an axially extending cylinder, a plurality of spaced cutter carrying members including radially extending plungers projecting through radially extending apertures in the body member and having angularly related actuating surfaces, spaced actuating members slidably mounted in the cylinder of the body member and having conical actuating portions engaging the angularly related surfaces of said plungers, yielding means between said spaced actuating members urging the cutter carrying members radially outwardly, a plurality of hard alloy cutting elements secured to the cutter carrying members for rotation and reciprocation therewith and each having a plurality of spaced wear resistant laminations each having an axially

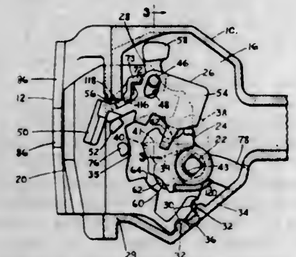
straight cutting edge, and spacers interposed between successive laminations, the cutting edge of each successive lamination in the direction of rotation being positioned radially inwardly from the cutting edge of the preceding lamination to induce the cutting edges of all of said laminations to be simultaneously operative.

2,591,274
FLOW CONTROL VALVE
Wilber B. Mahoney, Jr., Modesto, Calif.
Application March 10, 1948, Serial No. 14,082
1 Claim. (Cl. 251—73)



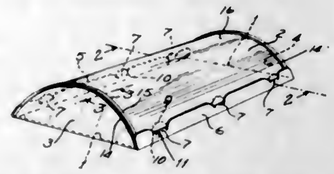
A valve comprising a chambered body having an inlet on one side and an outlet on the other side, a chambered element within said body opening to and joined to said inlet and spaced from said outlet and the interior walls of said body defining a passage to said outlet, said element having an aperture in its top wall and a threaded aperture of reduced diameter in its bottom wall, a hollow cone shaped valve seat positioned through said apertures, an annular flange at the upper end of said seat bearing upon said chambered element, a hollow cylindrical extension at the lower end of said seat exteriorly threaded to engage said threaded aperture for securing said seat relatively to said chambered element, there being a plurality of spaced transverse apertures in the walls of said valve seat within said chambered element, and an imperforate cone shaped member movable within said body adapted to seat within said valve seat to prevent the flow of fluid from said inlet to said outlet and when spaced from said seat adapted to permit flow from said inlet, through said apertures, through the interior of said seat and through said passage and outlet.

2,591,275
CAR COUPLER
William J. Metzger, East Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application June 8, 1949, Serial No. 97,748
28 Claims. (Cl. 213—100)



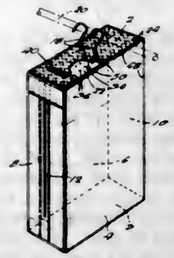
1. In a car coupler having a rigid jawed head, a lock adapted to reciprocate in a cavity in said head, a lock thrower pivotally mounted in said head and being adapted upon rotation in a given direction to move said lock rearwardly to lock-set position, a member operatively connected to said head and being adapted to maintain said lock in lock-set position, and means on said thrower for moving said member, upon rotation of said thrower in the opposite direction, so as to release said lock from lock-set position.

2,591,276
DISPLAY CONTAINER
Carl W. Middleton, Larchmont, and Earl F. Middleton, New Rochelle, N. Y.
Application February 18, 1947, Serial No. 729,294
4 Claims. (Cl. 206—45.34)



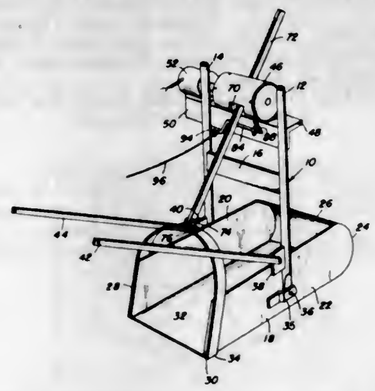
1. A container of the kind described comprising in combination a rectangular card-board bottom having relatively narrow flanges extending upwardly from the side edges thereof at an acute angle thereto, longitudinally spaced tongues formed in the flanges, each tongue including a shank and a head portion of greater horizontal width than the horizontal width of the shank, end sections integral with the bottom and extending perpendicular thereto, each of said end sections having its upper edge curved in a plane perpendicular to the said bottom, a transparent plastic sheet cover of greater width than the bottom and engaging the bottom at the juncture of the flanges and the bottom, whereby the cover is transversely convexed and forms a compartment with the bottom, the cover having slots therein for receiving the tongues on the flanges, each slot including a horizontally elongated portion through which the head of one of said tongues is readily inserted and a shorter portion slightly longer horizontally than the horizontal width of the shank of one of said tongues and adapted to receive the shank.

2,591,277
MOTHPROOF GARMENT BAG
Jacob J. Mintz, Somerville, N. J., assignor to A. L. Siegel Co., Inc., New York, N. Y., a corporation of New York
Application July 7, 1949, Serial No. 103,470
1 Claim. (Cl. 206—10)



A mothproof garment bag comprising spaced walls forming an enclosure for a garment and formed of a soft, flexible vinyl plastic sheeting, one of said walls being formed with three plies of plastic sheeting secured together along their peripheries, the outer ply comprising the flexible vinyl plastic sheeting of said wall and the inner and intermediate plies comprising soft, flexible sheeting of polyethylene, said polyethylene plies being separated from each other except along their said peripheries to define a pocket space closed so that solid mothproofing material when placed therein is insulated from contact with said outer ply and from the interior of the garment enclosure, said inner polyethylene ply being perforate and permeable to vapors of the mothproofing material placed in said space and both the inner and intermediate plies being resistant to the deteriorative action of said mothproofing material, said outer and intermediate plies of said one wall having registering openings provided with a closure through which said mothproofing material can be introduced into said pocket space from the exterior of said garment bag.

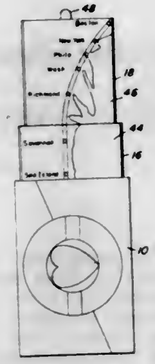
2,591,278
ADJUSTMENT FOR TRACTOR MOUNTED SCOOP TYPE DITCHERS
Wallace E. Morgan, Winamac, Ind.
Application July 23, 1948, Serial No. 40,337
2 Claims. (Cl. 37—118)



1. A drag scoop ditcher comprising a pair of supporting arms, a scoop pivotally mounted between the lower ends of said arms and having an open front end, a platform fixedly connecting the upper ends of said arms and having a housing mounted thereon, a gear and shaft rotatably mounted within said housing and having an end portion of said shaft extending from said housing, a prime mover mounted on said platform and connected to said shaft for driving the shaft and gear, a rackbar extending through an opening in said housing and engageable with said gear, an arch embracing the front end of said scoop and rigidly connected thereto, and one end of said rackbar being pivotally secured to said arch for effecting pivoting movement of said scoop on its pivotal mounting at the lower end of the supporting arms when said prime mover is actuated.

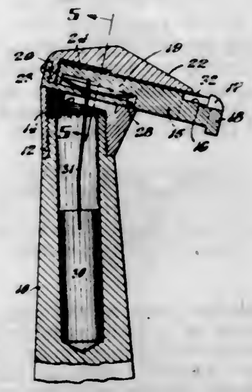
2,591,279
COLLAPSIBLE MAP AND SCHEDULE DISPLAY DEVICE
Edward R. Mundy, Ephrata, Wash., and Arthur L. Mundy, Ben Hill, Ga.
Application December 14, 1948, Serial No. 65,114
3 Claims. (Cl. 40—65)

1. A collapsible map and schedule display device comprising a hollow container having one end closed and the opposite end open, hollow sections of the same general shape as said containers and telescopically arranged to collapse within said container and to extend from the open end thereof, sheets adhesively secured on adjacent sides of said sections, and other sheets adhesively secured on the opposite sides of said sections, the first mentioned sheets being strip maps, and the second mentioned sheets being



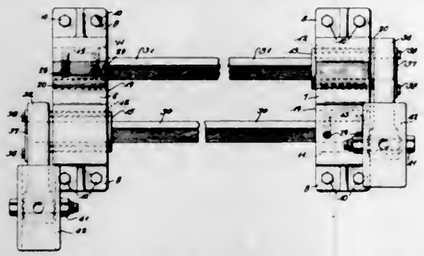
schedules corresponding with said strip maps, stops secured interiorly of said container at said open end, and an elongated strap secured to the inner end of the section adjacent the container and engaging said stops to prevent complete withdrawal of the section adjacent the container.

2,591,280
SAFETY RAZOR
Joseph Muros, Newtonville, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application October 29, 1949, Serial No. 124,294
10 Claims. (Cl. 30—62)



1. A safety razor comprising a base plate having a longitudinal passage therein, a blade-supporting member attached thereto and having blade-locating lugs at one edge and a recess in the other, a cap member slidably engaged with the blade-supporting member, an angle piece fast to said cap member and extending forwardly into the recess in the blade-supporting member, and a spring extending through the passage of the base plate and arranged to bias the cap member toward the lugs of the blade-supporting member.

2,591,281
MOUNT FOR OSCILLATING MATERIALS HANDLING EQUIPMENT
Albert Musschoot, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois
Application January 19, 1948, Serial No. 3,075
18 Claims. (Cl. 267—1)



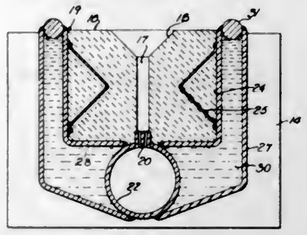
1. Apparatus for mounting the oscillatable body of a materials handling device, comprising housing means having an inner cylindrical surface, clamping means mounted in said housing means in frictional contact with the inner cylindrical surface and having a recess therein, a torsion bar having one end portion of non-circular cross-section positioned in loosely fitted relationship in said recess and rigidly connected to said housing means by relative rotation between said end portion and said clamping means, said end portion being supported by the clamping means out of contact with the housing means, means for rotating the clamping means and the associated end of the torsion bar relative to the housing means and to each other to twist the torsion bar and to bring about the clamping action of the clamping means, supporting means mounted in said housing means coaxially with said clamping means for supporting said torsion bar, for oscillating movements, at a point near its other end portion, and means for connecting the oscillatable end portion of said torsion bar to an oscillatable body.

2,591,282
SPRINKLER HEAD FOR USE ON UNDERGROUND WATER SYSTEMS
Lewen R. Nelson, Peoria, Ill.
Application December 10, 1948, Serial No. 64,503
3 Claims. (Cl. 299—149)



1. In a sprinker head of the class described, the combination of a body member adapted at its bottom end for attachment to an underground water pipe and provided with an internal bore, said body member having an irregular outer surface and a transversely extending annular recess in said surface; valve means comprising a valve seat in said bore, an apertured disc seated in said bore at a point above said valve seat, and a screw type valve member carried by said disc and cooperating with said seat, the upper end of said valve member being adapted for engagement with a suitable tool for adjustment relative to said seat; a removable nozzle forming a top closure for said body member engaged in said bore and seated against said apertured disc to secure said disc in said bore, said nozzle extending above the top of said body member and including a water discharge outlet vertically aligned with said screw type valve member; and a metal shield of sheet form arranged transversely of said body member to position the same relative to the surface of the ground, said shield comprising an outer annular flange, a central tubular neck portion embracing the irregular outer surface of said body member below the top thereof and having an inturned flange engaged in said annular recess, and an intermediate recessed portion joining said outer flange and said tubular neck portion, the bottom of said intermediate recessed portion lying substantially in the same plane as the top of said body member, said outer annular flange and said recessed portion extending laterally outward from said body member, and said intermediate recessed portion being of such depth that said outer annular flange is positioned above the highest point of said nozzle, said intermediate recessed portion establishing a free space surrounding said nozzle and allowing access to said nozzle for removal thereof.

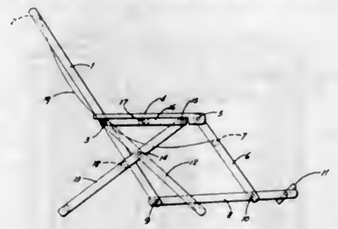
2,591,283
RADIANT WORK HEATING GAS BURNER
John D. Nesbitt, Sylvania, and Henry W. Schramm, Toledo, Ohio, assignors to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio
Application October 22, 1949, Serial No. 122,980
4 Claims. (Cl. 158—99)



1. In a gas burner, in combination, a bottom wall, end walls, and parallel side walls together defining an elongate open-top metal box, a one piece refractory block cast in said box in contact with the interior surfaces of said box and having a longitudinally extending slot-type combustion chamber extending from top to bottom centrally of said block, means including a passage disposed along the back side of said bottom wall and communicating through said bottom wall for supplying combustible mixture to said combustion chamber, and a metallic body embedded in said block at each side of said combustion chamber and anchored to the adjacent side wall of said box for reinforcing said block and tending to hold it in position in said box, said metallic body comprising an elongate strip of sheet metal having a plurality of apertures extending therethrough of a size to permit the mix of which said block is cast to pass freely therethrough.

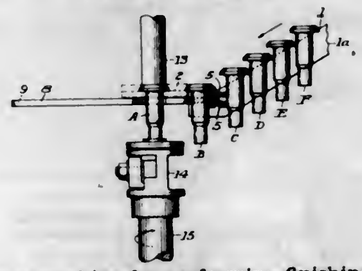
2,591,284
FOLDABLE RECLINING CHAIR
Gösta K. Odén, Nybro, Sweden
Application February 26, 1948, Serial No. 11,002
In Norway September 16, 1947
2 Claims. (Cl. 155—106)

2. A folding and reclining chair comprising a pair of armrests, a pair of back bars, a pair of front bars pivoted at their upper ends to the armrests, a pair of base bars pivotally connected to the lower ends of the front and back bars and having portions extending beyond the pivotal connections of said base bars to said front bars, means connecting the front ends of the base bars, a cross bar connecting the upper ends of the back bars, a second cross bar connecting the intermediate portions of the front bars together, a sheet of flexible material having its ends connected to said cross bars, two pairs of crossed legs arranged one pair at each side of the chair, pivot means



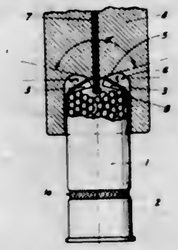
connecting the intermediate portions of the legs of each pair, means pivotally connecting the upper end of one of the crossed legs of each pair to the rear end of the adjacent armrest and to an intermediate portion of the adjacent one of the back bars, a pair of links each having one end connected to an intermediate part of an armrest and the other end connected to the upper end of the other leg of the adjacent pair of crossed legs.

2,591,285
BOLT FINISHING MACHINE
Charles D. Overly, Pittsburgh, Pa., assignor to Oliver Iron and Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 29, 1946, Serial No. 658,122
5 Claims. (Cl. 10—21)



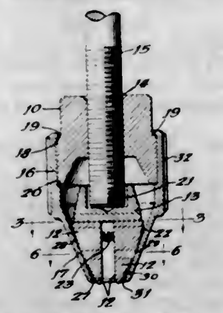
1. In a machine for performing finishing operations on bolt blanks and like headed workpieces, the combination of a feed-way slotted for extension of the shanks of bolt blanks vertically therethrough and to support the bolt blanks by underlying the heads thereof, a fixed slotted anvil forming an extension of the said feed-way similarly to support a bolt blank with the under face of the head thereof lying against the upper face of the anvil as an abutment, a pressing plunger and actuating means therefor organized vertically to move and to maintain the said pressing plunger in holding contact with the head of the bolt blank against the upper surface of the said slotted anvil, a working head cooperative with the said pressing plunger and movable vertically in operative alignment therewith into operative relation with the shank of a bolt blank held with its head forced against the upper surface of the said anvil by the said pressing plunger, a feed-finger having bolt-engaging means therein reciprocable along the said feed-way in a path overlapping the slot of the said anvil and obstructed by a bolt blank held therein, the said feed-finger being pivoted for swinging deflection by contact with a bolt held by the pressing plunger to pass along the said bolt in one direction of movement, and yielding means arranged to act on the said feed-finger to engage it with a bolt blank to bring the same into operative position in the said slotted anvil under the said pressing plunger by movement of the feed-finger in the opposite direction.

2,591,286
METAL CARTRIDGE AND METHOD FOR PRODUCING SAME
Marcel Luc Amedee Paulvé, Parmain, France
Application March 18, 1948, Serial No. 15,716
In France April 25, 1947
4 Claims. (Cl. 102—42)



1. In a method for the manufacture of metal cartridges the step consisting in crimping in star-formation the lips of the open end of the usual cartridge case, and closing it by folding and gathering the said lips, the step of sealing in a water-tight manner the gap formed at said open end upon the execution of the gathering operation, said sealing being operated by the introduction into said gap of an element of a preferably plastic material, said material passing preferably through the gap and being situated partly outside and partly inside of the gap and of the cartridge, the further step of turning over the said gathered end in a substantially perpendicular direction with respect to the axis of said case and in subjecting said preferably plastic material in said gap to a high compression during said turn-over operation.

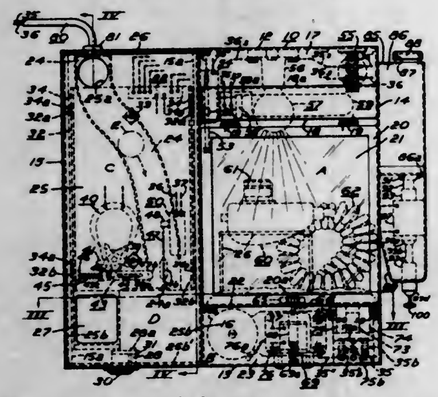
2,591,287
CHUCK
Fred Pellar, Chicago, and Joseph C. Zivny, Berwyn, Ill., assignors to Revere Camera Company, Chicago, Ill., a corporation of Delaware
Application June 4, 1949, Serial No. 97,112
9 Claims. (Cl. 279—58)



4. A chuck comprising a body portion having a threaded bore for receiving an arbor on which said chuck is mounted, said body portion having a cylindrical surface concentric with the axis of

said bore, a shell having a tapered resilient wall portion and a cylindrical portion, said cylindrical portion being mounted on the cylindrical surface of said body by means of a press fit, a set of jaws disposed within said shell and having gripping edges parallel to the axis of said chuck and having cam surfaces adapted to engage said tapered wall portion, and a plate disposed between the rear edges of said jaws and said body and adapted to be engaged by an arbor to urge each said jaws against said tapered wall portion and into gripping engagement with the shank of a tool.

2,591,288
SHAVING APPLIANCE
Arthur H. Pitchford, Pittsburgh, Pa.
Application February 21, 1949, Serial No. 77,617
9 Claims. (Cl. 30—34)

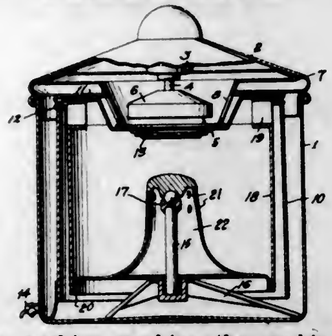


6. In a mechanical and electrical operating arrangement for an electrically operated shaving appliance having an electric shaver and a germicidal device for the shaver, the combination of a master switch electrically connecting one side of a source of electric energy to the electric shaver, an electric connection from the other side of the source of energy to the electric shaver, an electric control switch operated when the electric shaver is energized and connecting one side of the source of the electric energy to the germicidal device, an electric connection from the other side of the source of energy to the germicidal device, and electric means connected to the source of energy through said master switch and having a mechanism to open said control switch and deenergize the germicidal device when said master switch is closed.

2,591,289
FROTHING AGENTS FOR USE IN FROTH FLOTATION PROCESSES
Roger F. Powell, Gwelo, Southern Rhodesia, and Herbert Muggleton Stanley, Tadworth, England
No Drawing. Application October 12, 1949, Serial No. 121,054
In the Union of South Africa, August 17, 1948
6 Claims. (Cl. 209—166)

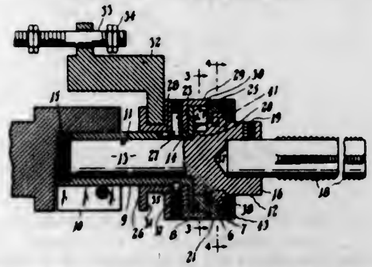
1. A process of concentrating material comprising subjecting the material to froth flotation in the presence of a collecting agent and a frothing agent consisting essentially of a tetraalkoxy paraffin having in the paraffin chain from two to five carbon atoms, a pair of alkoxy radicals selected from the group methoxy, ethoxy, normal propoxy and iso-propoxy being attached to each terminal carbon atom in the chain.

2,591,290
WASHING MACHINE
Christian Oskar Rasmussen, Copenhagen, Denmark, assignor to Simplex, Copenhagen, Denmark, a Danish company
Application January 21, 1947, Serial No. 723,260
In Denmark October 5, 1946
5 Claims. (Cl. 210—72)



1. In a washing machine, the combination of a casing; a removable cover for said casing; a fan suspended from said cover; a cylindrical drum having a bottom rotatably mounted in said casing and an open top, into which said fan depends when said cover is upon said casing; and a plurality of curved, inwardly projecting vanes formed on the inner upper edge of said drum, said vanes being disposed peripherally of said fan when said cover is upon said casing.

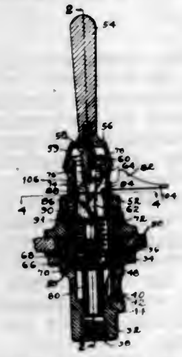
2,591,291
RELEASING TAP AND DIE HOLDER
Hubert Frank Raymond, Toronto, Ontario, Canada
Application December 24, 1949, Serial No. 134,885
1 Claim. (Cl. 10—129)



In a releasing tap and die holder, a carrier having a cylindrical head and shank, said head having an annular bore encompassed by an annular wall portion which is pierced to provide diametrically opposite radial holes each of a square cross section, said holes leading into said annular bore, said shank having an axial bore merging into said annular bore; a threading tool holder having an outer end freely disposed in said annular bore of the head and having a stud portion journalled in the axial bore of said shank and held against endwise movement, said outer end having a rotund section circumferentially interrupted by diametrically opposite radial projections in the form of teeth, opposite sides of said teeth with respect to the axis of the holder being convergently shaped to a crest to form cam faces, a dog slidable radially in each of said holes and being of a square cross section to conform to the cross section thereof, the dogs having beveled inner and outer ends, said inner beveled ends being engageable with said teeth,

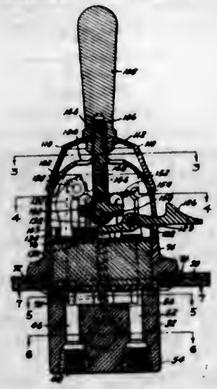
and a shift collar slidable axially on said shank and having an annular wall section surrounding the head portion of said carrier and provided with a sloping end face for engaging the beveled outer end of the dogs to press the dogs inwardly, said annular wall section of said collar having a bore of a diameter to positively retain said dogs in an inner engaged position when sleeved thereover.

2,591,292
FLUID VALVE
Donald H. Reeves, Dayton, Ohio, assignor to Donald H. Reeves And Associates, Beulah, Mich., a partnership
Application April 16, 1945, Serial No. 588,665
11 Claims. (Cl. 277—20)



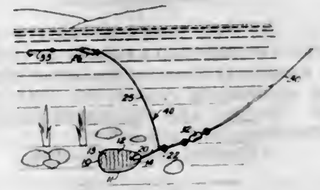
1. In a fluid valve assembly, the combination including self-closing valve means, operating means for allowing said valve means to open to any desired degree within the operative range of the valve assembly, means for holding the operating means in such position as to allow the valve means to remain open, second operating means for releasing the holding means so that the valve will be closed, means for holding the releasing means in releasing position until the closure of the valve means, and means for disengaging the releasing means upon the closure of the valve means.

2,591,293
FLUID VALVE
Donald H. Reeves, Dayton, Ohio, assignor to Donald H. Reeves And Associates, Beulah, Mich., a partnership
Application April 16, 1945, Serial No. 588,666
12 Claims. (Cl. 277—20)



1. In a fluid valve assembly having multiple ports arranged in two groups, self-closing valve means for each port, single control means movable into two groups of directions from the closed position, said control means when moved into one group of directions selectively allowing the opening and permitting the closing of the ports in one group of ports and when moved into the other group of directions selectively allowing the opening and permitting the closing of the other group of ports, said control means allowing the opening of the ports in a group to any desired degree within the operative range of the valve assembly, means for holding said control means in any adjusted position, means for releasing said holding means, and means for detaining said releasing means for a sufficient period to permit the valve means to close completely.

2,591,294
FISHHOOK SUPPORT AND SINKER
Stephen J. Ripich, Cleveland, Ohio
Application April 30, 1949, Serial No. 90,703
3 Claims. (Cl. 43—43.15)

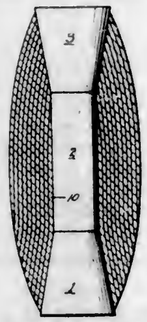


3. A combined self-righting sinker and lure support comprising an L-shaped wire having its upright leg provided with a loop at the upper end thereof and its other leg being provided with a sinker at its free end, said legs being provided at their adjoining ends with a loop constituting a connection for a fishing line, said sinker being substantially pear-shaped in plan view and having its apex secured to the free end of the other leg, the transverse cross-section of said sinker throughout substantially its entire length being substantially crescent shaped with a greater thickness at the central portion of the section than at the ends, the upper and lower lines defining said section having different radii of curvature, the upright leg being curved toward the broad end of the pear shaped sinker, the upper surface of said sinker being concave and faced toward the curved upright leg and the other leg being approximately one-half to three-fourths the length of the sinker and curved upwardly away from the apex thereof in line with the upward curvature of the base, whereby the second loop is maintained above the bottom of the sinker when the sinker is in its operative position.

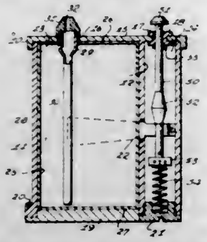
2,591,295
COP-TYPE BOBBIN AND PACKAGE WOUND THEREON
Edouard Roatta, Izieux, and Albert Peyssonneaux, Grenoble, France, assignors, by mesne assignments, to Textile and Chemical Research Company Limited, St. Peter Port, Guernsey, Channel Islands, a corporation of Great Britain
Application January 19, 1950, Serial No. 139,494
In the Netherlands January 26, 1949
1 Claim. (Cl. 242—161)

A yarn package comprising a bobbin having a cylindrical barrel with symmetrical frusto conical end portions together extending over from one-half to two-thirds of the total bobbin height, and a winding thereon comprising layers of yarn,

each layer having an amplitude at least 50% greater than that of a frusto conical end portion, said layers being progressively offset from one end to the other end of the bobbin and having a uniform low pitch with successive turns in contact from end to end, said winding having a barrel-shaped outer surface with tapered end portion.

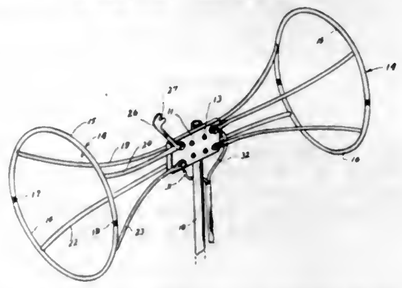


2,591,296
HAND-OPERATED LIQUID ATOMIZER
Eugene D. Rogers, Key West, Fla.
Original application August 20, 1948, Serial No. 45,249. Divided and this application February 21, 1950, Serial No. 145,325
2 Claims. (Cl. 222—103)



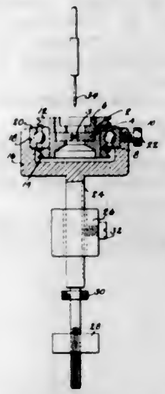
1. A liquid dispenser comprising a hollow casing having a partition therein dividing the interior of said casing into two contiguous chambers, said partition having an opening therein and said casing having an opening in one wall thereof opening into one of said chambers, a resilient walled cartridge disposed in said one chamber and carrying a nozzle extending through the opening in said one wall, cartridge compressing means engaging said cartridge and extending through the opening in said partition into the other of said chambers, said casing having a second opening in said one wall thereof opening into said other chamber, and manually operable means extending through said second opening into said other chamber and engaging said cartridge compressing means for operating the latter to compress said cartridge and expel liquid contents of said cartridge through said nozzle, said cartridge compressing means comprising two opposed arms disposed at respectively opposite sides of said cartridge and pivotally mounted in the opening in said partition, each of said arms having an extension extending into said other chamber and a spring disposed between said extension and exerting a separating force on said arms, and said manually operated means comprising a rod slidably mounted in the second opening in said casing wall and extending between said arm extensions, and a cam on said rod movable between said arm extensions to force said arms together and compress said cartridge therebetween.

2,591,297
TELEVISION ANTENNA CONSTRUCTION
Michael C. Rosenthal, Long Beach, N. Y.
Application March 14, 1950, Serial No. 149,585
5 Claims. (Cl. 250—33)



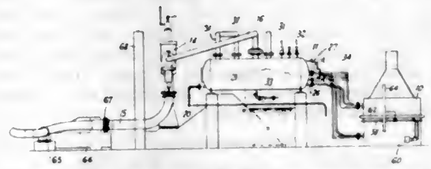
1. An antenna construction comprising a post, an insulating block secured to the upper end of the post and extending respectively to the opposite sides thereof, a cage connected to the opposite sides of the block, and each cage comprising a circular ring and longitudinally extending members connected between the ring and the block, bolt means extending through the block to secure the longitudinal members thereto, the said ring comprising two arcuate sections, and two of said longitudinal members connected to each section, the longitudinal members of the sections being vertically spaced upon the block, the arcuate sections of the ring being insulated from each other.

2,591,298
EQUIPMENT FOR USE IN THE MANUFACTURE OF DRAWING DIES
William E. Roux, Oriskany, N. Y.
Application June 1, 1950, Serial No. 165,395
4 Claims. (Cl. 125—30)



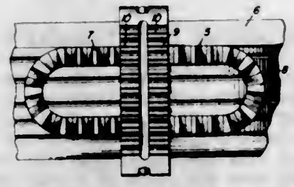
1. Apparatus for the drilling and piercing of dies, said apparatus comprising a rotatable assembly composed of a die casing, a die receptacle having a recess for the reception of the die casing to mount the casing concentric with the die receptacle, and a bearing for the receptacle concentric with the die casing and receptacle; a holder in which the assembly is removably mounted; and a drill mounted externally of said assembly and holder and rotatable about an axis aligned with the axes of the die casing, receptacle, and bearing; the said assembly being invertible in said holder while maintaining the axial alignment of the drill and assembly.

2,591,299
STEAM GENERATING APPARATUS
Will H. Rowand, Madison, and Charles S. Smith, Westfield, N. J., assignors to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application April 13, 1946, Serial No. 662,056
3 Claims. (Cl. 122—250)



1. A coil type natural circulation steam generating element comprising an annular furnace chamber and superposed annular gas pass, a circumferential series of equally spaced tangentially arranged fuel burners in said furnace chamber, a plurality of separate heat absorbing elements arranged in parallel and having substantially the same surface areas arranged in axially positioned sets of coaxial annular helical coils of different diameter within said annular gas pass, means for delivering water to the lower end of each of said coils from separate sources, and means receiving substantially equal quantities of steam generated within said coils from the upper ends thereof.

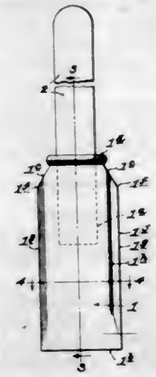
2,591,300
ANTISKID DEVICE
Joseph Sampogna, Yonkers, N. Y.
Application February 14, 1949, Serial No. 76,273
1 Claim. (Cl. 152—228)



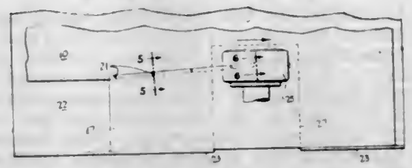
A traction device for a vehicle wheel comprising a transverse cleat, a longitudinal cleat of elongated endless band form having parallel sides and rounded ends and attached to said transverse cleat and extending longitudinally beyond the sides thereof, and means for attaching one of said cleats to said wheel, said longitudinal cleat having transverse tread teeth spaced along its sides and radial teeth spaced around its ends.

2,591,301
FOOD SAVER
William John Schacht, Huntington, Ind.
Application February 2, 1950, Serial No. 141,910
3 Claims. (Cl. 15—245)

1. A food saver, comprising a flexible flat body of substantially rectangular shape having a recess in its rear end; a handle frictionally retained in said recess; said rear end being of reduced width and the side edges of the body adjacent the rear end converging inwardly and being rounded into the side edges of the major portion of the body; the forward portion of the body being tapered on its front and rear faces and terminating in a straight forward edge disposed substantially normal to the axis of the handle; the side edges of the body throughout the major portion thereof being blunt and the front and rear faces of the body having grooves therein adjacent the side edges forming with the side edges lips extending to points adjacent the forward edge of the body.

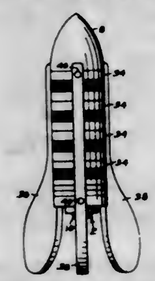


2,591,302
SEAM WELDED BLANKS AND METHODS OF MAKING THEM
Karl L. Schiff, Philadelphia, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 12, 1949, Serial No. 126,790
11 Claims. (Cl. 219—10)



1. In a method of seam-welding adjoining margins of two sheets together, the step of arranging said margins at a small angle to the normal direction of movement of the sheets through a roller-welding machine, such normal direction being at right angles to the axes of the welding rollers, and the step of guiding such sheets in said normal direction between two opposed rollers of such machine in using rollers of a width at least equal to the projection of said margins on the axes of rotation of said rollers.

2,591,303
MECHANICAL PUZZLE
Russell M. Schriner and Oliver L. Schriner, Attica, and Leland M. Whyte, Pittsford, N. Y.
Application May 11, 1948, Serial No. 26,436
3 Claims. (Cl. 273—156)



1. A puzzle comprising a centrally disposed shaft having a knob at one end and having spaced

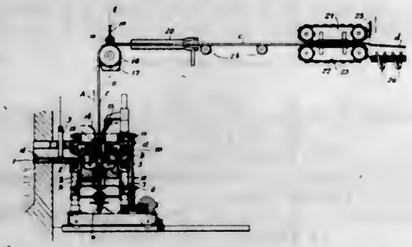
collars with longitudinally disposed grooves in the peripheral surfaces thereof fixedly mounted on the shaft, cylindrical sections concentric with the shaft rotatably mounted on said collars and having pins therein positioned in the spaces between the collars, said sections mounted for manual rotation to align the pins with the grooves of the said collars whereby the shaft, knob, and collars are removable from the cylindrical sections, and means retaining the said sections in assembled relation.

2,591,304

DEVICE FOR THE PRODUCTION OF RODS AND TUBES FROM GLASS, PLASTIC OR LIKE SUBSTANCE

Werner Schuller, Banstead, England

Application April 19, 1949, Serial No. 88,474
In Great Britain April 19, 1948
3 Claims. (Cl. 49—17.1)



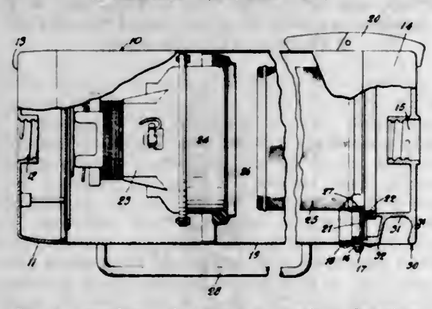
1. Apparatus for the continuous manufacture of elongated cylindrical products of glass and the like, comprising a glass furnace, a rotary glass drawing pot having a vertical axis of rotation for receiving molten glass from said glass furnace, means for drawing an elongated product from said pot, said means comprising a roller mounted on a horizontal axis spaced vertically from said pot and positioned with its periphery tangent to said vertical axis, and means horizontally spaced from said roller for exerting a drawing force on said elongated product, said last named means being so positioned that said elongated product is bent about the periphery of said roller as it passes from said pot to said last named means for exerting a drawing force.

2,591,305

HANDLE FOR SUCTION CLEANER CASING

Louis E. Segesman, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application August 15, 1946, Serial No. 690,706
2 Claims. (Cl. 220—94)



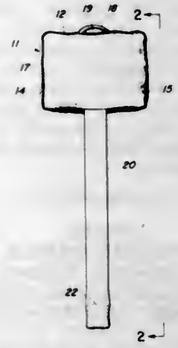
1. In a suction cleaner, a casing having an opening at one end, a cap removably attached to said casing one end for access to the interior of said casing through said opening, spaced supporting skids on said casing projecting outwardly beyond the bottom surface of said casing and the bottom surface of said cap for engagement with the floor covering to space said bottom surfaces of said casing and cap above the floor covering, and a handle in said cap and comprising wall means defining a recess extending radially inwardly from the periphery of said cap and having its entrance disposed in said bottom surface of said cap between the limits defined by said spaced supporting skids, whereby the latter when resting on the floor covering at all times positions said entrance to said handle toward the floor covering for inserting the operator's hand into said handle.

2,591,306

PILLOW CUSHION

Milton H. Sherman, Bronx, N. Y.

Application April 13, 1951, Serial No. 220,838
1 Claim. (Cl. 155—173)



A pillow adapted to be detachably applied to the back of a seat structure, the pillow being of general oblong shape and wedge shaped in cross section, the same tapering from its bottom to its top, an elongated strap secured to the bottom of the pillow centrally of the ends of the same, said strap being weighted at its free end and adapted when hung over the back of a seat structure to hold the pillow in different positions thereon, the pillow having a handle secured to the top thereof centrally of its ends, the handle being in the form of a strip secured at opposite ends to the top of the pillow at points spaced apart a greater distance than the width of said strap providing for threading the strap through the handle, the length of the strap from the point of its attachment to the bottom of the pillow to its weighted free end exceeding twice the height of the pollow.

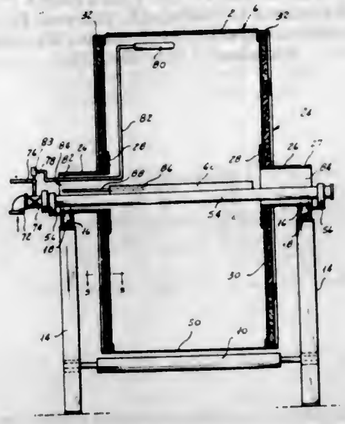
2,591,307

WEB DRYING DEVICE

Frank Sibel, West Paterson, N. J.

Application March 18, 1950, Serial No. 150,458
9 Claims. (Cl. 263—33)

5. Apparatus for continuously drying elongated web material travelling in its plane which comprises a rotatable drying drum about, and in contact with, the periphery of which said web material travels, means for supporting the drum for rotation about its axis, a thin metal peripheral covering member of low heat capacity on the drum, and a gas-fired infra-red ray heat generator stationarily positioned within the drying drum substantially axially thereof, the infra-red ray heat generator being spaced an appreciable distance from the inner surface of such peripheral covering member, said infra-red ray generator comprising an elongated refractory brick positioned with its longitudinal axis parallel to the axis of rotation of the drum, an exposed face of the brick being hollowed, a combustible mixture conducting manifold extending



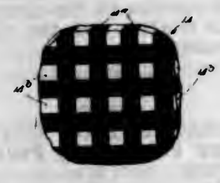
within the drum, jets communicating with such manifold, said jets being spaced longitudinally of the refractory brick, the jets being directed substantially tangentially to the hollow surface of the refractory brick, and means for supplying to such manifold a combustible mixture to be burned at the jets.

2,591,308

LIGHT VALVE SYSTEM

Frank K. Singiser, Sudbury, Vt.

Application October 20, 1950, Serial No. 191,257
2 Claims. (Cl. 313—91)



1. For subject imaging devices of the type employing an electro-optical light transmitting or reflecting screen for picture reproduction upon conjoint illumination by an independent light source and scanning by a subject-signal-modulated electron beam, a new and improved light valve screen comprising a light impeding grid defined by a regular geometric array of uniform, aligned, opaque, electrically insulating, screen bands intersecting at right angles and uniformly spaced by a band width, and a picture element number of electro-optical screen chambers formed between said bands, said screen chambers defining image elements representative of the light values of the corresponding subject elements and constituting in the aggregate a high resolution mosaic of uneven character and uniform density, the construction and arrangement of said bands being such as to surround each screen chamber volume with eight identically proportioned chamber isolating screen band volumes, whereby the relation 3:1 opacity to transparency is maintained in said screen.

2,591,309

PHOTOGRAPHICALLY SENSITIVE DIAZOTYPE ELEMENT

Sam Charles Slifkin and William Beese, Binghamton, N. Y., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application November 10, 1945, Serial No. 627,976
6 Claims. (Cl. 95—8)



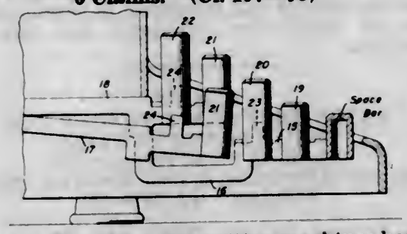
1. A white opaque light-sensitive diazotype reproduction medium consisting of a water-impermeable, highly reflective cellulose acetate base of uniform composition throughout its cross-section, and having uniformly dispersed therein a finely ground opacifying pigment selected from the group consisting of titanium dioxide and barium sulfate, which base is impregnated in its surface portions only with a light-sensitive diazo compound derived from a p-diamine of the benzene series and an azo coupling component.

2,591,310

TYPEWRITER KEYBOARD

Raymond L. Smith, Arlington, Va.

Application May 1, 1951, Serial No. 223,973
6 Claims. (Cl. 197—98)



3. A keyboard for typewriting machines having four transverse rows of key heads, the upper or striking surfaces of the heads in each of the rows behind the first row extending at progressive elevations, each of said latter heads having a wall depending into the keyboard a distance at least equal to the distance between the normal striking surfaces of the heads in adjacent transverse rows plus a distance at least equal to the depression stroke of the key, and a key lever on which each head is mounted, the levers mounting the first and second rows of heads having substantially U-shaped key clearance portions, and at least a portion of the bases of the heads of the third and fourth rows when in depressed relation being disposed within said U-shaped portions, and an upwardly extending projection on each of the levers of the first row, said projections being positioned between the heads of the second row, and the upper ends of said projections when in depressed relation being in a higher horizontal plane than the lower ends of the heads of the second row when in normal relation.

2,591,311

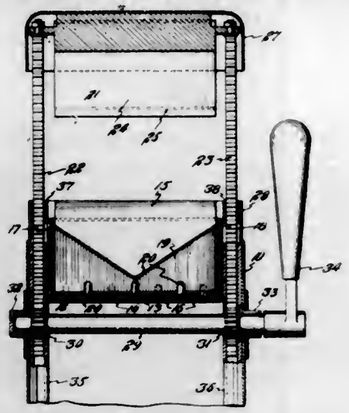
KITCHEN PRESS

Vernon H. Springford, Evansville, Ind., assignor of one-third to Sherman B. Daugherty, Evansville, Ind.

Application May 22, 1948, Serial No. 28,643
1 Claim. (Cl. 100—42)

In a kitchen press, a receptacle open at the top and having a drain opening, a press bed

substantially in the form of a V-shape trough and located in said receptacle, a cutting blade with a substantially V-shape cutting edge within the press bed and in a plane bisecting the angle thereof, the apex of the cutting edge being near the apex of the press bed, and a substantially



V-shape press head movable into and out of the press bed and slotted to straddle the blade, the ends of said trough being open and spaced from the side walls of said receptacle to permit lateral flow of liquid over the press bed into the receptacle.

2,591,312
EXTENSIBLE DRAFT TONGUE FOR TRAILERS AND THE LIKE
Joseph H. Stees, Freeport, Ill.
Application November 6, 1950, Serial No. 194,327
3 Claims. (Cl. 287—58)

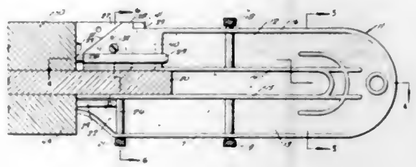


1. A draft tongue for a vehicle comprising a rear tubular section, a front section slidable endwise in said rear section for extension and retraction relative thereto to vary the length of the tongue and being rotatable in said rear section, and means to lock said front section to the rear section against extension comprising devices on said sections, respectively, co-engaging with a snap action upon retraction of said front section from an extended position, one of said devices being rotatable relative to the other by rotation of said front section whereby to disengage said devices and unlock said front section, one of said devices comprising a segmental flange on one section, and the other device comprising a spring-pressed dog on the other section for hooking over said flange.

2,591,313
PROCESS FOR PRODUCING ALPHA-(METALLO-FORMYL)-BETA-ALKOXY-PROPIONIC ACID ESTERS
Gustav A. Stein, Plainfield, N. J., and Joseph R. Stevens, Easton, Pa., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Original application April 10, 1946, Serial No. 661,086. Divided and this application May 16, 1950, Serial No. 162,382
4 Claims. (Cl. 260—484)

1. The process which comprises simultaneously reacting, at a temperature below about 40° C., an acrylic ester with an alkyl formate and an alkali metal alcoholate to produce an α-(metallo-formyl)-β-alkoxy-propionic ester.

2,591,314
DEVICE FOR SAFETY CHECKING THE ALIGNMENT OF PATTERNS
Raymond C. Stelmach, Harvey, Ill.
Application August 5, 1949, Serial No. 108,802
6 Claims. (Cl. 33—180)

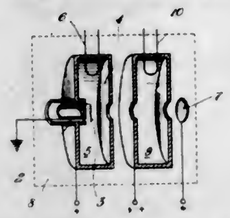


1. In a device for registering patterns on opposite sides of a moldboard, a frame comprising a pair of parallelly spaced arms having free outer ends, means fixing said arms in parallel relation with the free end of one of said arms reaching beyond the free end of the other arm for engaging an edge of a pattern on a side of a moldboard positioned between said arms, a blade mounted on the other arm to slide therealong, said blade having an outer end and being arranged to occupy a retracted position in which the outer end of said blade is flush with the free outer end of said other arm and to occupy a projected position in which the outer end of the blade is positioned outwardly beyond the free outer end of said other arm, the outer end of the blade thereby indicating the proper position for the edge of a pattern on the opposite side of the moldboard to register with the edge of the first mentioned pattern.

2,591,315
ALKALI TREATMENT OF AGAVE AND MANILA HEMP FIBERS TO PRODUCE FLEXIBLE FIBERS
Hendricus Stephanus, Haarlem, and Jacobus Rinse, Overveen, Netherlands, assignors to Jacobus Rinse and Willem Dorst, both of Haarlem, Netherlands
No Drawing. Application August 26, 1948, Serial No. 46,372. In the Netherlands May 21, 1948
16 Claims. (Cl. 8—125)

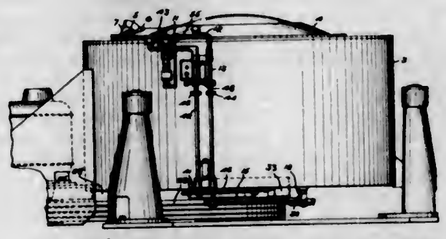
1. A process for the production of strong, flexible, cellulose fibers from raw agave and manila hemp fibrous masses the individual fibers of which are bound together with lignin and other natural binding substances which comprises, contacting the said fibrous masses with an aqueous alkali metal hydroxide solution of about 3–15% concentration (calculated as sodium hydroxide) containing dissolved therein at least 0.5% (calculated as oxide) of at least one compound of the group consisting of aluminum and zinc oxides and hydroxides until the said binding substances are substantially dissolved out while leaving the cellulose fibers substantially free from attack, and removing the solution containing the dissolved binding substances from the fibers, whereby the strong, flexible, cellulose fibers are obtained.

2,591,316
DEVICE FOR PRODUCING AN OSCILLATORY CIRCUIT TUNED TO AN ULTRAHIGH FREQUENCY
Maximiliaan Julius Otto Strutt, Aldert van der Ziel, and Kornelis Swier Knol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 13, 1946, Serial No. 683,306
In the Netherlands March 6, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 6, 1963
5 Claims. (Cl. 250—36)



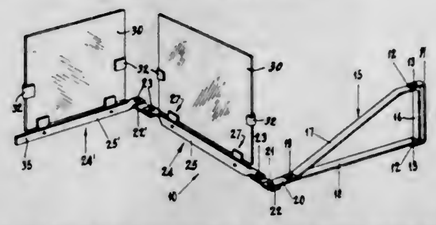
1. A high frequency electronic device comprising a cylindrical cavity resonator having opposing end walls in parallel relation, one of said walls having a centrally disposed outwardly projecting tubular recess, the other of said walls having an aperture in axial alignment with said recess, an electron discharge system provided with a tubular electron-emissive cathode coaxially disposed within said recess, a control grid interposed between said walls and directly connected to said cathode, an anode constituted by said other of said walls and a collector electrode exterior to said resonator and juxtaposed and in axial alignment with said aperture, and a source of potential connected between said cathode and said anode, said collector electrode being connected to an intermediate point in said source, the magnitude of said source and the distances between said electrodes having respective values at which the transit time of the electrons between the grid and the anode is less than a half period of the natural frequency of said resonator and at which the transit time of the electrons between the cathode and the anode produces a negative resistance effect.

2,591,317
SAFETY MECHANISM FOR CENTRIFUGAL SEPARATORS
John E. Tholl, Needham, Mass., assignor to American Tool & Machine Co., Boston, Mass., a corporation of Massachusetts
Application February 27, 1947, Serial No. 731,278
13 Claims. (Cl. 233—1)



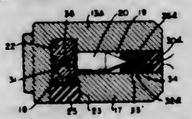
1. In a centrifugal separator, the combination of a rotary basket, a driving member for rotating the basket, a curb in which said basket is substantially enclosed, said curb having an opening therein above said basket, a cover for closing said opening, a latch for holding said cover closed, power driven mechanism for opening said cover, a device controlling the application of power to open said cover, a lever operable to release said latch, and connections between said lever and said device including a pivoted locking apparatus responsive to movement of the said driving member to prevent the operation of said mechanism to open said cover until said lever has been operated to release said latch.

2,591,318
ADJUSTABLE MIRROR BRACKET
John J. Tomeo, Queens Village, N. Y.
Application August 18, 1950, Serial No. 180,117
1 Claim. (Cl. 88—92)



An adjustable supporting mechanism comprising an upright wall hanger having horizontal arms with aligned screws forming a vertical axis, a triangular extension bracket having one side mounted on said screws and rotatable thereon, said bracket having one horizontally positioned side and a common pivotal member secured thereto, two complemental mirror carrying arms supported by said bracket, a mirror carried by each of said arms and said bracket being pivotally secured to a common pivotal member permitting independent angular adjustment of said mirrors to face each other, whereby a person positioned between said mirrors may see both sides of his face simultaneously each of said carrying arms having a pair of spaced bottom shelves, uprights extending upwardly from the shelves at the same spaced locations thereof, common fastening elements connecting respectively at the respective locations the shelf and the upright and a horizontal connecting bar secured to the upper ends of the uprights and having inwardly bent portions on the respective opposite ends thereof, said shelves and bent portions serving to support and retain said mirrors.

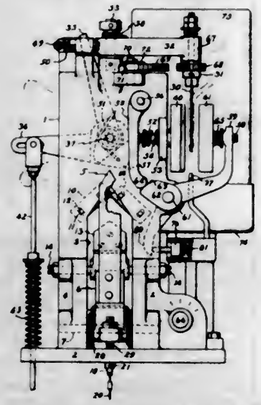
2,591,319
CASING PERFORATING GUN
James O. Tow, Huntington Park, Calif., assignor to McCullough Tool Company, Los Angeles, Calif., a corporation of Nevada
Application September 23, 1946, Serial No. 698,631
4 Claims. (Cl. 164—0.5)



1. In a well perforating gun, the combination of: a gun body having a laterally directed gun barrel recess; a gun barrel assembly insertable into said recess, said gun barrel assembly comprising a main barrel member having a bore for receiving a projectile, a powder receiving space at the inner end of said bore, said space having an opening leading out through the side of said

main barrel member, and a wall member to close said opening, said wall member being arranged so that it will be held in place by the side wall of said recess when said barrel assembly is in said recess; yieldable means for placement in said powder receiving space for resisting inward movement of said projectile; and means in the outer end of said bore to produce an explosion which will drive said projectile into said powder receiving space.

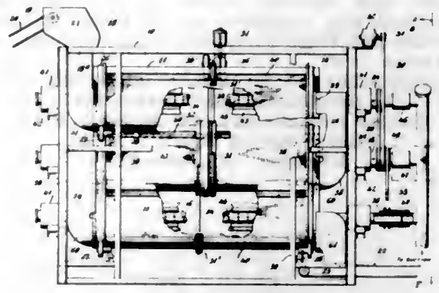
2,591,320
APPARATUS FOR FORMING CORNERS
Leo J. Trahan, Cohoes, N. Y.
Application October 25, 1949, Serial No. 123,380
15 Claims. (Cl. 223—2)



1. Apparatus for performing trimming, turning and shaping operations on a multiple thickness cloth garment comprising a supporting frame, means movably mounted on said frame and adapted in one position to receive said garment thereover with the wrong side out, cutting means on said frame adapted to trim said garment while on said receiving means to remove excess material therefrom, said receiving means being movable into another position to trim said garment on said cutting means, forming means on said frame for receiving said garment thereover with the right side out after said trimming operation, said forming means being arranged adjacent said one position of said receiving means to permit transferal of said garment from said receiving means and reversal of said garment during said transfer, said forming means being shaped to form said garment to the final shape desired, and movable pressing means on said frame normally spaced from said forming means and movable into engagement with said forming means for pressing said garment thereon.

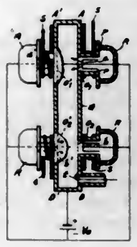
2,591,321
MACHINE FOR DRYING AND FLUFFING FLATWORK LAUNDRY
Max Troy, New York, N. Y.
Application July 11, 1947, Serial No. 760,476
2 Claims. (Cl. 34—133)

1. A laundry machine comprising a rotatable open-ended cylindrical drum mounted on a horizontal axis, said drum having on its inner peripheral surface circumferentially spaced, substantially wedge-shaped ribs extending longitudinally of the drum substantially from end to end thereof with the bases of the ribs adjacent the peripheral surface of the drum, said ribs having a greater subtended angle at the charging end of the drum than at the discharging end and being adapted, upon rotation of the drum, to



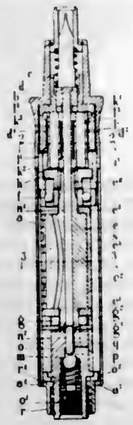
subject laundered articles charged into the charging end of the drum to a tumbling and conveying action through the drum.

2,591,322
GENERATOR OF ULTRA-SHORT ELECTRO-MAGNETIC WAVES
Robert Warnecke, Paris, France, assignor to Compagnie Generale De Telegraphie Sans Fil, a corporation of France
Application July 24, 1947, Serial No. 763,398
In France August 30, 1946
3 Claims. (Cl. 315—6)



1. A generator of ultra-short electromagnetic waves, comprising a casing having electrically conductive non-magnetizable walls forming a single cavity resonator, the opposite walls of the said cavity resonator being perforated with an even number of openings closed by grids, the said openings being disposed in pairs facing each other and situated at the points corresponding to the maxima of the high-frequency electric field to be generated inside the said cavity resonator, secondary emission cathodes of a number equal to that of the said openings and disposed adjacent the openings and facing the latter externally of the said cavity resonator, means producing a magnetic field aligned with the cathodes and grids for focusing the electron beams produced by the said cathodes and traversing the said cavity resonator through the said openings, means excited by the high frequency field within the said cavity resonator for tapping the high-frequency energy produced by the said beams and a source of continuous potential whose positive pole is connected with the said cavity resonator and whose negative pole is connected with the said cathodes.

2,591,323
POWER-OPERATED IMPACT WRENCH
George Henry Webb, London, England, assignor of one-half to Desoutter Brothers Limited, London, England
Application February 14, 1949, Serial No. 76,252
In Great Britain April 30, 1948
1 Claim. (Cl. 81—52.3)



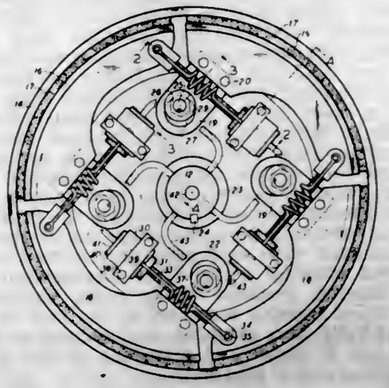
A portable machine tool of the character described, including a casing, a hollow cylindrical shaped tool carrying anvil member rotatably mounted adjacent one end of the casing, a carrier mounted for rotation within and coaxially of the hollow anvil member, hammer members pivoted upon the carrier, the axes of the pivots of the hammer members being parallel with the axis of rotation of said carrier, a driving member within the casing for imparting rotation to the carrier, cam means on the anvil to engage the hammer members with the latter, cam means on the driving member to disengage the same and said cam means coacting so that the hammer members are urged to perform a rocking motion upon the pivots with relative rotational movement between the carrier and the anvil member in either direction.

2,591,324
HAT COVER WITH PERFORATED BRIM
Roy J. Weikert, Covington, Ohio, assignor to The Joseph Lincoln Manufacturing Company, Inc., Covington, Ohio, a corporation of Delaware
Application February 17, 1950, Serial No. 144,655
5 Claims. (Cl. 2—187)



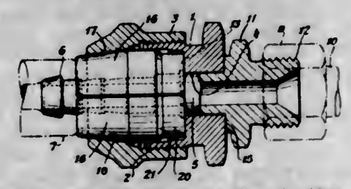
1. In a hat cover of the character described having a crown portion and a brim portion, the improvement that consists of a plurality of small projections extending downwardly from the under face of the brim of the hat cover, which projections are disposed in closely spaced relationship over substantially the entire under face of the brim.

2,591,325
FLUID CLUTCH FOR HOISTING DRUMS
Ralph R. Whitehill, Oildale, Calif.
Application July 19, 1948, Serial No. 39,419
2 Claims. (Cl. 192—85)



1. Hoisting drum mechanism, comprising: a winding drum element and a driving plate element supported on a shaft, one of said elements being fixed to said shaft and the other of said elements being rotatable around said shaft; a clutch drum projected from the end of said winding drum and encircling said driving plate; a plurality of pivot studs projected from the face of said driving plate and equally spaced in a circle concentric with said shaft, said studs being located approximately midway between the center of said shaft and the inner face of said clutch drum; eccentric bushings surrounding said studs; a clutch shoe pivoted on each of said bushings, whereby manual adjustment of said bushings will adjust the effective radial positions of said clutch shoes; a number of hydraulic cylinders equal to the number of said shoes, removably attached to said driving plate; a piston in each said cylinder and a push rod having one end seated in a socket in the forward end of said piston and connecting said piston with the free end of one of said clutch shoes; means for controllably supplying hydraulic pressure fluid simultaneously to all of said cylinders from a common source, and resilient means urging the free end of each said shoe toward the cylinder to which it is connected and away from said clutch drum.

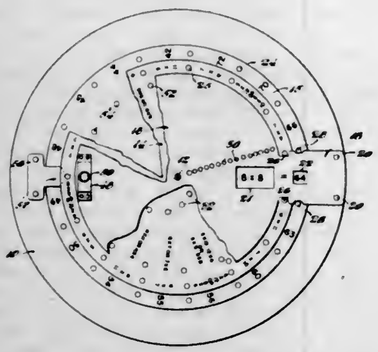
2,591,326
COUPLING FOR FLEXIBLE PIPES
John Charles Williams, Slough, England, assignor to High-Pressure Components Limited, London, England
Application November 20, 1948, Serial No. 61,230
1 Claim. (Cl. 285—86)



A pipe coupling for connection to the end of a flexible hose comprising an externally threaded hollow cylindrical body open at one end, a coaxial tubular protuberance extending through the closed end of said body and fixed thereto for positioning within the end of a flexible hose ex-

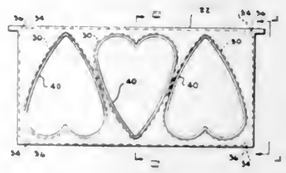
tending into said body, a pair of separate opposed substantially semi-cylindrical members combining to provide a radially contractible collet for fitting around that part of the flexible hose within which the tubular protuberance engages, the outer surfaces of said members being formed with reduced radius portions at one end of right semi-cylindrical conformation so that said collet forming members may be manually assembled on the hose and the reduced radius portions initially extended into said cylindrical body to be held in place by the latter, said semi-cylindrical members being formed with inclined shoulders extending from said reduced radius portions to the portions of the outer surface thereof of increased radius, said portions of increased radius of said members tapering towards the other end, and an internally threaded sleeve nut for threaded engagement with said body and formed with a tapered internal surface for engagement with the tapered portions of the outer surfaces of said collet forming members to contract the latter radially into gripping engagement with the hose and to move said members axially against the closed end of said body.

2,591,327
EDUCATIONAL DEVICE
Lawrie L. Witter, Newton Highlands, and Oscar Robert Deckert, Newtonville, Mass.
Application February 5, 1949, Serial No. 74,793
13 Claims. (Cl. 35—9)



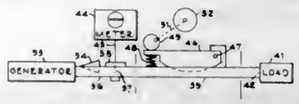
1. An educational device comprising a shield having a plurality of windows therein, a plurality of sheets relatively movable about a common center beneath the shield, a plurality of mathematical answers disposed about said center on one of the sheets, means on other of the sheets providing a plurality of mathematical problems disposed about said center, the shield being windowed to expose therethrough selected problems and answers on said sheets, windows so disposed in the sheets that they come into alignment with one of the first named windows only when a corresponding answer and problem are brought into predetermined relation, means for producing an electric light signal through aligned windows on the shield and sheets when a corresponding answer and problem are brought into said predetermined relation, said means including an electric light switch beneath the sheets and the sheets having holes therethrough in predetermined relation to the problems and answers respectively, and a stem above and operative through said holes when in aligned relation for closing the switch.

2,591,328
HONEYCOMB
John Yanik, Detroit, Mich.
Application October 25, 1949, Serial No. 123,447
7 Claims. (Cl. 6—10)



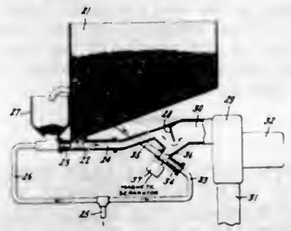
1. A holding frame for honeycomb section comprising a forward frame portion and a rearward frame portion, said forward frame portion including a front wall and a rearwardly projecting peripheral flange, said forward wall having an aperture therein and a recessed portion about the rearward edge of said aperture, said rearward frame portion including a rear wall and a forwardly projecting peripheral flange adapted to abut said rearwardly projecting peripheral flange, said rear wall having an aperture therein and a recessed portion about the forward edge of said aperture adapted to receive and hold in cooperation with the recessed portion in said forward wall a honeycomb section, said forward and rearward frame portions having mating means for holding the abutting peripheral flanges together and additional means adapted to be used to permit uniform parting of said abutting peripheral flanges.

2,591,329
MICROWAVE MEASURING INSTRUMENT
John F. Zaleski, Queens Village, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application April 8, 1949, Serial No. 86,293
2 Claims. (Cl. 175—183)



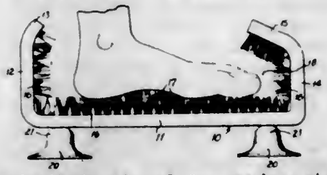
1. A direct-reading microwave standing wave ratio meter comprising, a microwave guide having an input connected to a source of microwave energy and an output connected to a load, a longitudinal opening in said microwave guide in a region of maximum electric field intensity, a fin of sheet material having no appreciable electrical energy dissipative properties inserted in said microwave guide through said longitudinal opening, means for automatically and cyclically varying the degree of insertion of said fin in said microwave guide, an adjustable attenuator inserted in said microwave guide between said input and said fin, a microwave detector coupled to a fixed point on said microwave guide between said attenuator and said fin, and an indicator connected to said detector, said indicator being so calibrated that when the minimum reading thereon is adjusted to a preselected point by adjustment of said attenuator, the maximum reading thereof indicates the voltage standing wave ratio directly.

2,591,330
FLUID PULVERIZING APPARATUS
Robert G. Anderson, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application December 4, 1946, Serial No. 713,946
2 Claims. (Cl. 241—40)



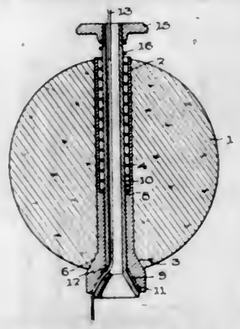
1. Pulverizing apparatus for solid materials comprising in combination, an elongated tubular pulverizing chamber, an anvil surface disposed at one end of said chamber, a high pressure air nozzle positioned at the opposite end of said chamber in alignment with said anvil surface, means for supplying metallic shot to said air nozzle whereby said shot will be projected at high velocity through said chamber and against said anvil surface, means adjacent said air nozzle and communicating with said chamber for introducing material to be treated into said high velocity stream whereby said material is struck by said metallic shot and crushed against said anvil surface, collecting means for said metallic shot including a magnetic separator disposed beneath said anvil surface, and suction blower means for withdrawing said pulverized material from said chamber.

2,591,331
FOOT BRUSH
Edward W. Baumbach, Kirkwood, Mo.
Application December 22, 1949, Serial No. 134,429
3 Claims. (Cl. 15—160)



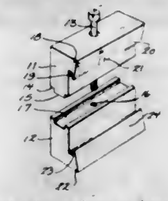
1. In a plastic foot brush for use in a stationary position, a brush body consisting of a one-piece molded synthetic resin, a plurality of twisted wires arranged in rows longitudinally of and within the body, tufts of bristles each rooted in the plastic body and anchored in situ by the rows of twisted wires, the bristles in adjacent rows being alternately longitudinally staggered, the brush including an intermediate bristled area merging into a forward end turned upwardly at a substantial angle and having the bristles thereon presented substantially horizontally toward the toes of the user, said forward end portion being thence continued into a back-turned portion with downwardly extended bristles, adapted to engage the upper surfaces of the toes of the foot, and thus forming a toe pocket of substantially C-shaped section at the front end of the brush; the rear end of the body being formed upwardly at a substantial angle to the intermediate brush portion, and thus forming a heel-brushing region the tip of which is bent forwardly toward the foot, and means for anchoring the brush in a fixed position of usage.

2,591,332
FISHING FLOAT
John A. Behensky, Rockland Lake, N. Y.
Application February 19, 1951, Serial No. 211,632
8 Claims. (Cl. 43—44.88)



1. A fishing float comprising a buoyant structure having a passage therethrough, a tube reciprocable within said passage and having an opening in its wall, said structure and the tube having cooperating surfaces, spring means tending to urge said tube in the buoyant structure in all positions of the float in a direction to bring said cooperating surfaces into engagement, whereby a line passing through the tube and the opening therein and between said cooperating surfaces will be resiliently held against movement relative to the buoyant structure.

2,591,333
VERNIER SCALE MEASURING DEVICE
Robert B. Bellmer, West Allis, Wis.
Application May 22, 1951, Serial No. 227,702
5 Claims. (Cl. 33—137)

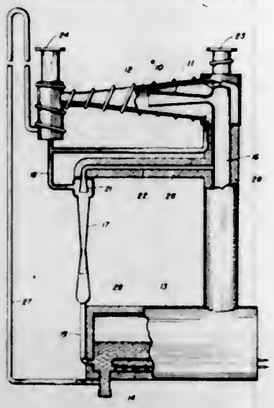


1. A device of the character described comprising a divided block, opposed inwardly directed ledges thereon adapted to retain a flexible rule thereunder, adjustable means connecting the divided portions of said block, and a vernier scale graved on the upper surface of one of said ledges.

2,591,334
VACUUM PUMPING APPARATUS
Judd H. Black and Horace G. Warren, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 1, 1950, Serial No. 182,862
3 Claims. (Cl. 230—101)

1. Vacuum pumping apparatus of the type wherein organic pump fluid vapors are passed through paired ejector and diffuser elements and condensed, said apparatus comprising in combination vacuum pumping means including paired ejector and diffuser elements, a boiler positioned below and spaced from said vacuum pumping means, vapor-channeling means connecting said boiler and said ejector element, and means for returning condensate from said pumping means to said boiler against pressure in said

boiler, said means for returning condensate comprising a downwardly directed diffuser tube between said pumping means and said boiler, a condensate return conduit connecting said pumping means with an upper portion of said diffuser tube, a second conduit connecting a lower portion of said diffuser tube with said boiler in a lower zone of said boiler below the normal liquid level in said boiler, jet nozzle means directed downwardly into said diffuser tube, and a vapor conduit connecting said jet nozzle means and said vapor-channeling means.

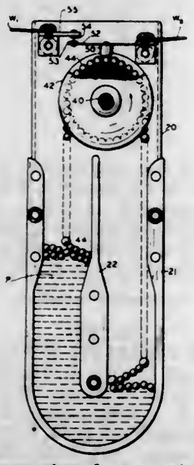


2,591,335

PROGRAM SIGNAL APPARATUS

Maurice A. Blouin, Gardner, Mass., assignor to Simplex Time Recorder Co., Gardner, Mass., a corporation of Massachusetts

Application June 3, 1950, Serial No. 165,935
3 Claims. (Cl. 200—38)



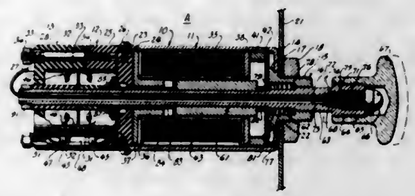
1. In a program signal apparatus, in combination, an enclosing casing having a vertically extending partition in its middle and lower portion only and with the extreme lower end of said partition spaced from the lower end of said casing, chain-feeding mechanism located in the upper portion of said casing, a signal-indicating chain forming a closed unit and passing over said feeding mechanism and loosely around said partition, and contact members rendered operative by said chain at prearranged intervals, said chain being delivered from said feeding mechanism to the lower part of said casing for loose and uncontrolled storage in the lower part of said casing and at one side of said partition and being withdrawn from the lower part of said casing for further feeding from the opposite and supply side of said partition and the major part of the chain accumulating at the storage side of said partition and being shifted transversely and loosely under said partition by the weight of the chain in storage to progressively replace the chain withdrawn from said supply side.

2,591,336

MAGNETIC AND MANUALLY OPERATED ELECTRIC SWITCH

Lawrence J. Bordelon, San Diego, Calif., assignor to Consolidated Vultee Aircraft Corporation, San Diego, Calif., a corporation of Delaware

Application March 5, 1948, Serial No. 13,271
5 Claims. (Cl. 200—111)



1. In an electric switch, an elongate member, movable contact means supported by said elongate member, a plurality of stationary contact means, said elongate member being positioned for longitudinal movement manually in opposite directions from a normal position, movement of said elongate member in either direction from its normal position effecting engagement between said movable contact means and certain of said stationary contact means, an energizing coil, a magnetic core disposed therein, means operatively connecting said elongate member to said magnetic core for automatic movement thereby in one direction from its normal position to a switch operating position upon energization of said energizing coil, resilient means operative on said elongate member and exerting its bias to resist manual and automatic movement thereof and adapted to return said elongate member to its normal position both after a manual operation and on deenergization of said coil, and a lamp carried by said elongate member, in circuit with certain of said stationary contact means, and adapted to light both upon automatic movement of said elongate member in one direction to a switch operating position and upon manual movement of said elongate member in this same one direction.

2,591,337

BRACKET FOR AUTOMOBILE SIGNS

Samuel H. Cohen, Brookline, and Eugene Piltch, Cambridge, Mass.

Application December 14, 1949, Serial No. 132,940
3 Claims. (Cl. 248—226)

1. A bracket attachable to an automobile bumper, comprising two rigid plates substantially parallel to each other, each said plate having a flange along the lower edge thereof, a stem having a lower portion between the upper portions of said plates, said portions of the stem and plates being shaped to form an articulated joint, means for drawing said plates together to grip said stem in adjusted angular relation to the plates, and for maintaining said flanges in spaced parallel relation, and set screws threaded through one said flange to project toward the other.

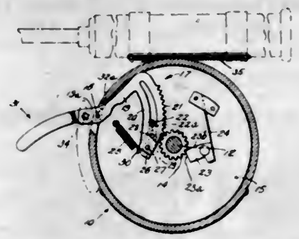


2,591,338

FISHING REEL

Leo Cooper, Stamford, Conn., assignor to P & K Incorporated, a corporation of Illinois

Application March 29, 1947, Serial No. 738,140
7 Claims. (Cl. 242—84.6)



3. A fishing reel comprising a casing having an end wall; a shaft mounted on said wall; a spool rotatably disposed on said shaft; a gear rotatably mounted on the shaft and disposed between the wall and the spool; a sheet metal driver arm pivoted to the casing and having an integral resilient gear segment projecting laterally therefrom and drivingly engaging the teeth of the gear in all operative positions, the projecting end of the segment being free and having a pivotally mounted tooth thereon; means normally yieldingly urging the driver into normal position wherein the said tooth is disposed to engage the gear and yieldingly urging the tooth into engagement with the gear to provide a normal drag thereon during rotation of the spool in unwinding direction, said segment having sufficient resiliency to yield and permit the gear to slip over the teeth thereof under load, to provide a varying drag, said drag increasing as the engagement between the gear and segment moves toward the driver arm; and a one-way drive between the gear and spool enabling the spool to continue turning in said winding-in direction after rotation of the gear in said direction ceases and driving the gear in unwinding direction when the spool is rotated in unwinding direction.

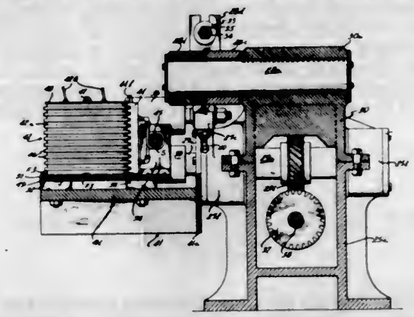
2,591,339

APPARATUS FOR CASEHARDENING DRILL RODS

Roy H. Davis, Fonthill, Ontario, Canada, assignor to Atlas Steels Limited, Welland, Ontario, Canada, a limited company of Canada

Application December 30, 1948, Serial No. 68,355
3 Claims. (Cl. 219—13)

1. Apparatus for surface hardening bar stock comprising a frame, a floating base mounted on said frame, guide means carried by said floating base, and an induction heating coil carried by said floating base and through which the stock is arranged to travel, said guide means operable to respond to irregularities in the straightness of said stock, whereby said coil remains in fixed spaced relationship to said stock irrespective of irregularities in the straightness of said stock.

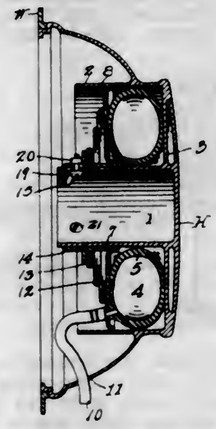


2,591,340

TIRE PRESSURE EQUALIZER

Henry P. Deitz, West Hyattsville, Md.

Application March 21, 1950, Serial No. 150,941
7 Claims. (Cl. 152—418)



1. In a pressure equalizer for a vehicle wheel having a pneumatic tire and a hub cap forming a closed head, the combination with an annular air reservoir of elastic material mounted in the hub cap with one side bearing against said head, and resilient means bearing against the opposite side of the reservoir for deflating the reservoir, of a flexible and detachable air-connection between the tire and the reservoir including a manually operated disconnector, said connection including a resiliently closed relief valve and means actuated by the disconnector for opening said valve, and a resiliently closed tire-filling valve communicating with the connection between the reservoir and the relief valve.

2,591,341

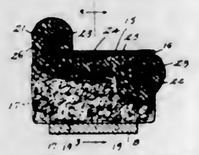
SHOESHINING OR BUFFING DEVICE

Wesley C. Dickson, Los Angeles, Calif.

Application December 12, 1947, Serial No. 791,211
3 Claims. (Cl. 15—235)

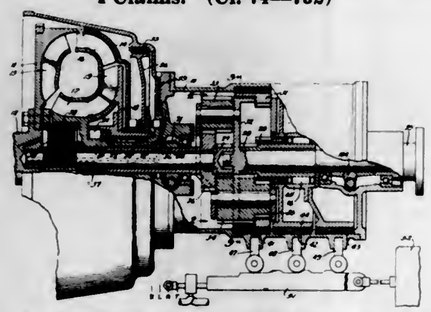
1. A shoe shining or buffing device comprising an arch-shaped frame wherein the axis of the

arch extends from front to rear of the device, said frame including upstanding side walls, a top wall coextensive with said side walls, and a rear wall depending from said top wall and terminating substantially above the lower ends of said side walls, the lower ends of the side walls being fixedly secured to a supporting surface to support the frame thereon, said rear wall being spaced from the supporting surface to define a restricted opening in the rear end of the device, a piece of buffing



material having portions disposed against the inner sides of the side walls, top wall and rear wall, and said side walls, top wall and rear wall having portions projecting outwardly relatively to the interior of the frame and provided with means for anchoring the buffing material piece thereto for securing it in position to completely line the inner side of said frame, said material extending immediately beneath and around the lower edge of the rear wall.

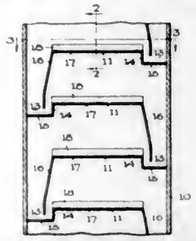
2,591,342
TRANSMISSION
Adiel Y. Dodge, Rockford, Ill.
Application October 1, 1948, Serial No. 52,187
4 Claims. (Cl. 74—732)



1. A transmission for connecting a driving shaft to a driven shaft comprising a hydraulic torque converter having a driving member connected to the driving shaft and a driven member, a planetary gear set including a plurality of sun gears and a gear carrier having planet pinions thereon meshing with the sun gears, the planet pinions including a first pinion meshing with one of the sun gears and a second pinion meshing with the first pinion, a ring gear meshing with the second pinion, the planet carrier being permanently connected to the driven shaft, a permanent connection between the driven member and one of the sun gears, brake means to hold a second of the sun gears against rotation, brake means to hold the ring gear for reverse drive, and a clutch to connect a third of the sun gears to the driving member.

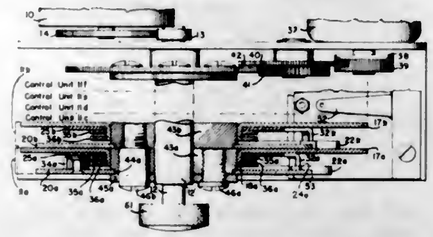
2,591,343
TRAY FOR FRACTIONATING EQUIPMENT
Aksel C. Eld, Mount Lebanon, Pa., assignor to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 10, 1949, Serial No. 109,561
3 Claims. (Cl. 261—113)

1. In a fractionating tower, a tray provided with liquid inlet means and diametrically opposed liquid downflow means, the tray being formed with corrugations providing unobstructed troughs which extend from the inlet means to



the downflow means, the said corrugations being formed with a multiplicity of relatively small and closely spaced perforations substantially uniformly distributed over their entire surface.

2,591,344
APPARATUS FOR POSITIONING ROTARY CONTROLLED ELEMENTS
Harold F. Elliott, Palo Alto, Calif.
Application September 3, 1947, Serial No. 771,999
10 Claims. (Cl. 192—142)

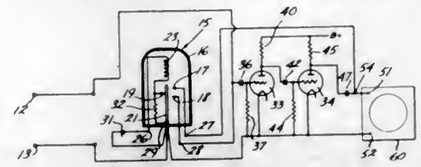


1. Apparatus for precisely positioning a rotary controlled element in a predetermined angular position comprising: a fast rotatable member rotatable within a multi-revolution range and including stop provisions; a stop device movable from an inactive position into registration with said stop provisions to arrest said fast member in a preselected angular position related to said predetermined position; a slow rotatable member in coaxial adjacent relation with said fast member, rotatable only within a range not exceeding one revolution, and controlling said stop device to permit registration with said stop provisions only when said slow member is rotated to a predetermined angular position; means for providing a continuous driving connection from one of said members to said rotary controlled element; a planetary gear system positioned in coaxial alignment between and interconnecting said members so that rotation of one effects simultaneous rotation of the other at a preselected speed ratio equal to at least the number of revolutions in said multi-revolution range; and a driving system for rotating one of said members.

2,591,345
DIRECT CURRENT AMPLIFIER WITH SYNCHRONIZED CHOPPER AND RECTIFIER WITH PHASE SENSE
Greer Ellis, Pelham, N. Y.
Application June 1, 1950, Serial No. 165,527
7 Claims. (Cl. 315—26)

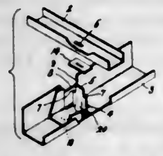
1. Amplifier apparatus comprising a circuit with input terminals, an alternating-current amplifier unit connected across the input terminals,

an output circuit from the amplifier unit, switch means with contacts that are connected with the respective input terminals and contacts that are connected with the opposite sides of the output circuit, said switch means including also conduc-



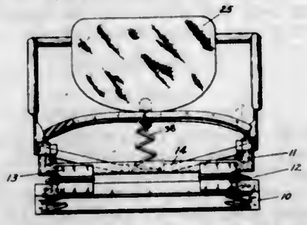
tor means movable into one position where they touch all of said contacts simultaneously and thereby to short circuit both the input terminals and said output circuit, and motor means that move the switch into and out of said position at a predetermined frequency.

2,591,346
GRILL STRUCTURE
Albert J. Fitzgerald, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application June 13, 1950, Serial No. 167,815
2 Claims. (Cl. 189—82)



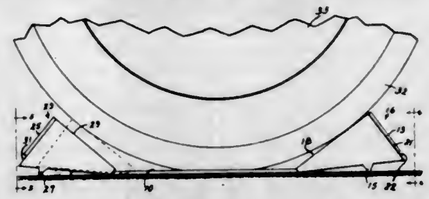
1. The combination, in a decorative grill, of a pair of intersecting grill members, one of L shape with one arm of the L in the face area of the grill, and the other of channel shape with the bottom of the channel in the face area of the grill, the opposite edge of said L member having a notch receiving the bottom of said channel, a resilient sheet metal member secured to the back surface of said first arm of the L member and between said members, said sheet metal member having a projection extending through a slot in said channel bottom and having a shoulder on which said bottom rests, said projection having a twist to cause said bottom to bear against said shoulder and said notch.

2,591,347
MOVABLY SUPPORTED SPRING SEAT CONSTRUCTION
Hyland C. Flint, Akron, Ohio
Application July 6, 1946, Serial No. 681,695
11 Claims. (Cl. 155—53)



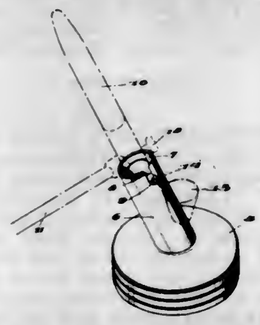
1. In a seat construction, a plurality of substantially horizontally arranged transversely extending yielding strips forming a weight-supporting seat portion, a back rest portion supported on said seat portion substantially over a yielding strip and movable vertically therewith, the lower side of said back rest portion being shaped to substantially fit the curvature of the yielding strip thereunder when said strip is depressed, and means for permitting substantially vertical movement of said back rest portion and substantially preventing rearward movement thereof.

2,591,348
WHEEL CHOCK
Ramon H. George, Baltimore, Md.
Application March 7, 1949, Serial No. 79,960
2 Claims. (Cl. 188—32)



1. A wheel chock assembly comprising an elongated bed plate a portion of which is adapted for engagement with a vehicle wheel, said bed plate bent upwardly adjacent one end, triangular wings on the portion of the bed plate bent upwardly, said triangular wings being bent downwardly, a spur on the longest edge of each triangular wing for ground engagement, said spurs being adjacent the base of the triangular wings, a slidable chock on the opposite end of said bed plate having triangular shaped wings bent downwardly, a spur on the longest edge of each triangular wing, said spurs being adjacent the base of the triangular wings.

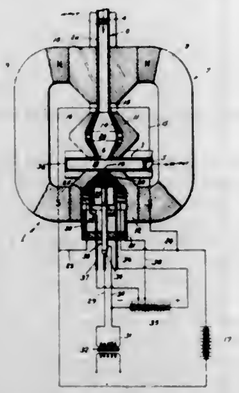
2,591,349
AIR-BRUSH HOLDER
Leo E. Goebel, Detroit, Mich., assignor of one-half to Joseph P. Goebel, Detroit, Mich.
Application July 25, 1949, Serial No. 106,650
1 Claim. (Cl. 299—88)



A portable holder for an air-brush having a shank terminating at its lower extremity in a nozzle, an air hose bushing and an air lever control barrel extending radially from the shank at substantially the same distance above the nozzle, and a color cup connected to the shank by a laterally extending nipple arranged below the said air hose bushing and lever control barrel, comprising a heavy base member and an upwardly extending tubular socket member pro-

vided with an open-ended slot in its upper portion, whereby said nozzle and shank may be inserted into said socket member until a three-point contact is made with said socket member with said bushing and lever control barrel resting upon the upper edge of the socket member and said nipple resting in a lower plane on the bottom wall of said slot.

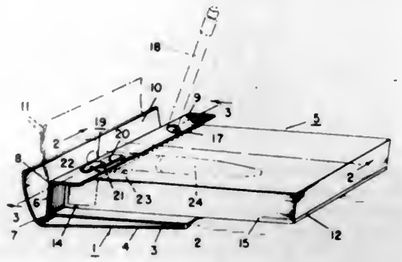
2,591,350
TRAVELING-WAVE ELECTRON REACTION DEVICE
Elmer J. Gorn, Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application April 26, 1947, Serial No. 744,143
5 Claims. (Cl. 315—39)



1. In combination: a wave guide structure adapted to be excited by electromagnetic energy having a predetermined angular phase velocity; a source of electrons; means, adjacent said source of electrons, for injecting electrons from said source into said wave guide structure with an orbital component of motion; and means, adjacent said wave guide structure, for adjusting the angular velocity of said orbital component of motion of said electrons to substantially equal the angular phase velocity of said electromagnetic energy.

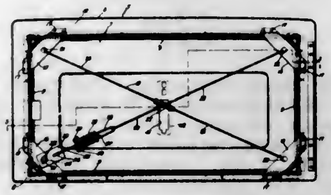
2,591,351
NOTE PAD AND NOTE SHEET HOLDER
Calvin B. Gray, Wilmington, Del.
Application May 18, 1949, Serial No. 93,869
3 Claims. (Cl. 281—15)

1. In a holder for a notepad and note sheets, a single piece of resilient sheet material bent upon itself to provide upper and lower divergent planar members, said upper planar member constituting a notepad supporting surface and being provided at its extremity with an upright flange parallel to the bend between said planar members, means cooperating with said flange and said upper planar member for clamping a notepad to said upper planar member, and an upwardly directed extension carried by said lower planar member and positioned parallel to but spaced from said upright flange, the combination of said flange, said extension and said divergent planar members defining a continuous open-top note sheet receiving channel of angular cross-section, and the angle between said divergent planar members being sufficiently small that a sheaf of note sheets inserted into said pocket and extending to a point adjacent the bend between said



planar members will be resiliently clamped between said planar members.

2,591,352
ADJUSTABLE DOOR BRACE CONSTRUCTION
George C. Harbison, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 20, 1948, Serial No. 55,503
4 Claims. (Cl. 20—38)

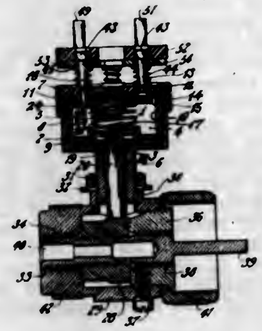


4. In a door for refrigerators or the like comprising an outer shell of pan-like shape, a corner brace secured to said outer shell at each corner thereof and diagonal braces extending between said corner braces, the improvement which comprises forming one of said diagonal braces to include a compression spring, a rod engaging one of said corner braces and one end of said spring, and an element engaging the corner brace diagonally opposite said one of said corner braces and connected to the opposite end of said spring, said spring being compressed for applying at all times a tension on said rod, providing a second rod engaging a third corner brace and a third rod engaging a corner brace diagonally opposite said third corner brace, and providing a turnbuckle connected to adjacent ends of said second and third rods for adjusting the tension on said rods to vary the shape of said door.

2,591,353
ELECTRICAL SWITCH
Kenneth A. Harmon, Longmeadow, and Glen A. Guernsey, West Springfield, Mass., assignors to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application February 17, 1951, Serial No. 211,512
6 Claims. (Cl. 200—27)

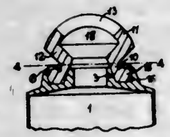
1. An electrical switch, comprising a first electrical contact having an opening therethrough, a second electrical contact larger than said open-

ing, yieldable means tending to move the second contact toward and into engagement with the first contact, the second contact when engaged with the first contact partially covering said opening, a third electrical contact smaller than said opening and mounted to move in a



direction toward and away from the second contact through the opening in spaced relation with the wall of such opening, said third contact adapted periodically to engage the second contact and move it away from the first contact, and means for reciprocating the third contact in said direction.

2,591,354
MEANS FOR HOLDING AND EXTRUDING PASTE AND LIQUID MATERIALS
Walter Sim Harris, Wilmslow, England, assignor of one-fourth to E. Griffiths Hughes Limited, Adelphi, Salford, England, a British company, one-fourth to Tom Frederick Gray and one-fourth to Kenneth Victor Gray, both of Kersal, Salford, England
Application May 22, 1948, Serial No. 28,713
In Great Britain June 10, 1947
5 Claims. (Cl. 222—92)



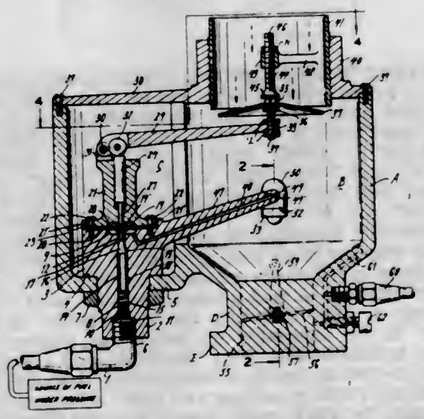
1. Means for holding and extruding paste and liquid materials, comprising in combination, a collapsible container, a short externally tapered neck on the container containing an outlet orifice, a flange on the container having an internal annular surface opposed to the neck and tapering in opposite direction therefrom, a separate member of resilient material having an extrusion slit, a neck on the said member, an internal conical surface in the neck of the separate member supported internally by the tapered neck, an external bead on the neck of the separate member, and an external conical surface on the bead complementary to and supported by the tapering internal annular surface of the flange, the flange being bent over the bead and pressing it into tight contact with the tapered neck and the tapering internal annular surface of the flange.

2,591,355
ELECTRIC BATTERY COMPOSED OF FLAT ELEMENTS
André Héraud, Saint Ouen, France, assignor to Societe Anonyme dite: Societe des Piles Wonder, Saint-Ouen (Seine), France
Application January 3, 1950, Serial No. 136,485
In France January 8, 1949
5 Claims. (Cl. 136—111)



1. In a dry cell battery construction containing at least one cellular unit of a zinc anode, electrolyte, depolarizer and carbon cathode, in which each cell in a plurality of cells may be separately tested by contacting the sides of the successive zinc anodes, that arrangement comprising in order, an outer, stepped, insulating retaining frame provided with an upwardly extending flange portion, an outwardly extending flange portion stepped from the upwardly extending portion and an inwardly stepped shelf being in substantially the same plane as the outwardly extending flange portion, the periphery of said shelf defining the aperture in the base of said frame, a cup-shaped zinc anode enclosing the upwardly extending flange portion of said frame and seated on the outwardly extending flange portion of said frame, a layer of electrolyte between said zinc anode and said upwardly extending flange portion, a depolarizer in said frame and a carbon cathode layer closing said aperture in the frame.

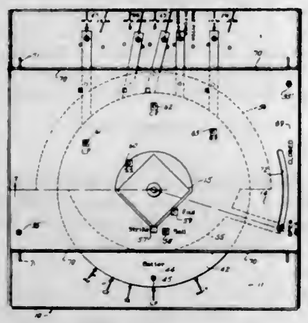
2,591,356
CARBURETING MECHANISM
William L. Howe, Jr., Chesterfield, Mo.
Application May 24, 1950, Serial No. 163,946
4 Claims. (Cl. 261—69)



1. A carbureting mechanism comprising a casing provided with an air chamber, a tubular member mounted in a wall of said casing communicating with said air chamber, a support, an arm pivotally mounted on said support, a vane mounted on the free end of said arm and adjacent to but spaced apart from the inner end of said tubular member, a stop mounted in said tubular member to limit upward movement of said vane, a rod operable by said arm, a liquid tight diaphragm contactible on its upper face by the free end of said rod, a housing for slidably

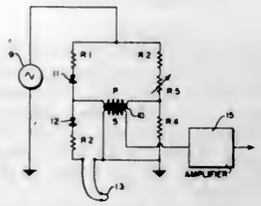
containing said rod, a second housing secured to said first named housing with said diaphragm securely contained between said housings, a metering pin slidably mounted in said second named housing beneath said diaphragm and adapted to be moved downwardly by said rod, a valve on said metering pin, a seat for said valve, said second named housing containing a passageway for liquid, a source of supply for said liquid, means for maintaining a substantial pressure on said liquid, an arm extending from said second named housing and provided with a longitudinal passageway therethrough, said passageway communicating at one end with said liquid passageway in said second named housing and at its other end with a transverse passageway in a nozzle supporting member, nozzles carried by said nozzle supporting member provided with restricted outlet passageways for discharging liquid in fog-like spray into said air chamber and means for moving said metering pin to open said valve thereon to permit the flow of liquid from said source of supply to said air chamber.

2,591,357
OSCILLATABLE BASEBALL GAME BOARD
Harry P. Hutchins, Audubon, N. J.
Application May 24, 1949, Serial No. 95,100
1 Claim. (Cl. 273—88)



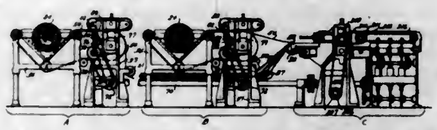
A game board comprising a base member having a pitcher-fielder end and an oppositely positioned batter end, said pitcher-field end having notations "R. F." and "Play"; "Bad Pitch"; "Pitcher"; "Good Pitch"; "C. F."; "Play"; "S. S." and "Play" and "L. F." and "Play"; said batter end having notations "R. F."; "C. F."; "S. S."; "L. F." and "Wait," a fielder indicator oscillatably mounted on said base member, there being one for each field position, a pitcher play indicator oscillatably mounted on said base and complemental to said pitcher notation, said base having a "Hit" notation for each fielder indicator to be concealed by respective indicators when moved to the "Play" position, and exposed when moved to the field designation, each fielder indicator further having an "Out" notation positioned to align with the "hit" notation on the base when moved to the "Play" position; said base further having notations representing a "Strike"; a "Ball" and a "Foul", said pitcher play indicator having a slot to expose the "Foul" notation and further having a slot to expose the "Ball" notation, and cover the "Strike" notation when said pitcher play indicator is aligned with the "Bad Pitch" notation, said "Ball" notation being covered and said "Strike" notation being exposed when said pitcher play indicator is moved to "Good Pitch" position; an upright pin mounted in the medial portion of said base, a batter control member rotatable on said pin and positioned above said fielder and pitcher indicators, said batter control having openings positioned to align with the "Hit" notations on the base and with the "Out" notations on the fielder indicators at times; said batter control further having formed therein a "Strike"; "Ball" and "Foul" slot adapted to register with corresponding notations on the base, upon selected plays between the fielder, pitcher indicators and the batter control, a play revealing disc oscillatably mounted on said upright pin above the batter control and having slots adapted to align with the slots of said batter control in one position of its movement, said play revealing disc further having openings arranged to register with indicia on the base for revealing the play position of the fielder indicators, and a top member on said upright pin above the play revealing disc and fixed to said base, said top member having slots in registry with the slots of the play revealing disc and having a vertically disposed shield member in advance of the pitcher fielder end and said batter end.

2,591,358
THERMOCOUPLE BRIDGE
Donald T. Imler, Gettysburg, Pa., assignor to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application January 21, 1947, Serial No. 723,234
4 Claims. (Cl. 73—359)



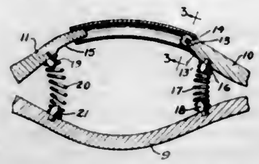
1. A circuit for detecting small thermocouple voltages and converting them into proportionate alternating current voltages comprising a bridge network having a plurality of impedance arms connected together to provide spaced pairs of input and output points, means connected across said input points for supplying a pulsed current to said network, one of said network arms including a germanium crystal diode and a thermocouple connected in series, and means to detect the signal strength of the alternating current component of the voltage across said output points for an unbalanced condition of said network upon subjecting said thermocouple to heat.

2,591,359
CELLULOSE PAD MACHINE
Curt G. Joa, Sheboygan Falls, Wis.
Application June 14, 1950, Serial No. 168,045
30 Claims. (Cl. 154—29)



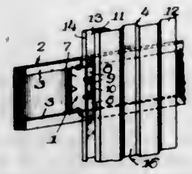
1. In a device of the character described, a web feeding machine comprising laterally spaced rolls mounted at substantially the same level and a roll downwardly offset from said level and between adjacent rolls, belts carried by said laterally spaced rolls and said offset roll and together constituting a continuous conveyor including a cradle having its bed defined by said downwardly offset roll, a roll laterally offset from said cradle constituting a crimping drum, and a crimping roll having a mounting on which it cooperates with said drum to crimp a web moving from a roll supported in said cradle between said crimping drum and said crimping roll.

2,591,360
HANDLE MEANS FOR SIMULTANEOUS OPERATION OF DOUBLE-ENDED PLIERS
Joseph D. Keenan, Chicago, Ill.
Application December 30, 1948, Serial No. 68,175
1 Claim. (Cl. 81—47)



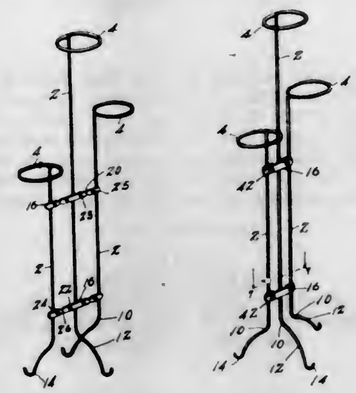
A device of the class described comprising two pairs of clamping jaws, a stationary handle element integrally connecting together corresponding jaws of said two pairs of jaws, a second handle element comprising two sections having corresponding end portions integrally connected with the other jaw elements of said two pairs of jaws, the free end portions of said handle sections being spaced apart, a tubular member telescoped over and enclosing the free ends of said handle sections, and means securing one of said handle sections to said tubular member, whereby said handle sections operate in unison when pressure on said tubular member is exerted toward said stationary handle element.

2,591,361
ATTACHING CLIP FOR WALL SURFACING
Kenneth E. Knott, Niles, Mich., assignor to The Kawneer Company, Niles, Mich., a corporation of Michigan
Application February 9, 1946, Serial No. 646,538
6 Claims. (Cl. 189—86)



1. The combination, with a furring strip having a flat back wall, side flanges along the opposite sides of said back wall and inwardly extending lips at the upper edges of said side flanges spaced from the back wall and forming an open channel therewith; of a fastening clip having a base portion within said channel with a central emboss bearing against the back wall of the strip, a pair of spring retaining wings integral with the base portion and extending upwardly and outwardly therefrom; said wings having curved ends with smooth convex friction surfaces bearing against the under surfaces of the inwardly extending lips of the furring strip at points spaced away from their inner edges and adjacent the side flanges of the strip and holding the clip in place with firm frictional engagement; the width of the clip being substantially less than the span between the opposite edges of the lips on the flanges of the furring strip, so that the clip may be freely inserted between the lips and rotated to secure the wings thereunder; said clip including a leg projecting from the base with a laterally extending anchor tab thereon; said anchor tab having an upwardly extending locking projection carried thereby; and panel members secured to the furring strip by said clips; with the anchor tab engaging an edge of one of the panels, and an inside surface of an adjacent panel engaging the locking projection and holding said tab locked against accidental release.

2,591,362
FLOWERPOT STAND
Roderic M. Koch, Evansville, Ind.
Application October 9, 1946, Serial No. 702,152
3 Claims. (Cl. 211—74)

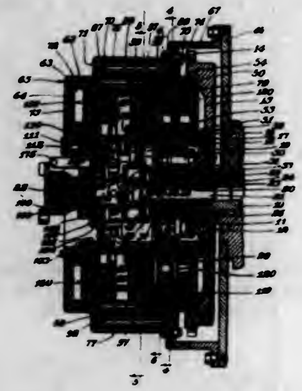


1. In a flower-pot stand adapted for shipping purposes including three spaced metallic rods of varying lengths, each of said rods having an upper horizontally disposed pot-holding means thereon, and means at their lower ends for supporting said rods in vertical position, the combination of a pair of vertically spaced horizontally disposed links each having a welded joint to the central rod, and coacting means uniting the opposed ends of the links with each of the other two rods.

2,591,363
HYDRAULIC TRANSMISSION
Selmer A. Kraft, St. Paul, Minn., and Arthur W. Beaurline, River Forest, Ill., assignors to Johnson Power-On Transmission Corporation, Chicago, Ill., a corporation of Illinois
Application December 27, 1948, Serial No. 67,502
13 Claims. (Cl. 74—687)

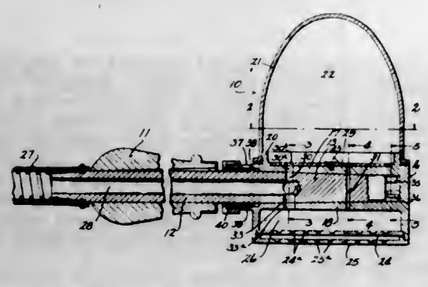
1. A transmission including a drive shaft, a planetary gear system including a ring gear connected to said drive shaft for rotation therewith, a planet gear carrier, a planet gear in mesh with said ring gear supported by said planet gear carrier, a sun gear in mesh with said planet gear, a vaned pump rotor connected to said sun gear for rotation in unison therewith, a casing encircling said rotor and including a plurality of pump pockets through which said vanes pass, a second

rotor connected to said planet gear carrier, a second casing rotatable with the first named casing and encircling said second rotor, means selectively operable for restraining the pump casings from rotation, a plurality of pockets in said second casing, vanes on said second rotor and passing through said spaced pockets, passages con-



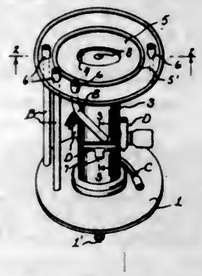
necting said pockets in the first named casing with the pockets of the second named casing, rotation of the first named rotor acting to force liquid from said first casing through said passages and into said second casing and to cause rotation of said second rotor, and clutch means connecting said planet gear carrier to said driven shaft.

2,591,364
MIXING NOZZLE
Matthew G. Kurth, Madison, Wis.
Application May 24, 1946, Serial No. 672,052
15 Claims. (Cl. 299—84)



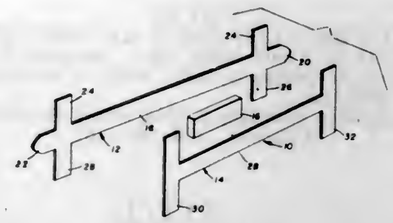
2. A dish washing spray head including a mixing chamber, means for conducting a stream of liquid under pressure therein, said mixing chamber being provided with a wall portion comprising inner and outer planiform plates in closely spaced parallel relation the outer plate being exposed for free discharge of spray to the atmosphere, each of said plates being provided in substantially coextensive areas with a plurality of spray nozzles to pass liquid therefrom in defined streams, the spray nozzles in one plate being in offset relation to the spray nozzles in the second plate, whereby a diffused spray from the nozzles of the outer plate is created and liquid flowing from the mixing chamber through the nozzles provided in the inner plate is directed in streams against the outer plate to be further mixed in the space intermediate said plates prior to its discharge through the nozzles of the outer plate.

2,591,365
ELEVATED CARRIAGE FOR VACUUM CLEANERS
Delwyn Liesener, Jackson, Wis.
Application December 21, 1949, Serial No. 134,163
1 Claim. (Cl. 15—257)



A portable elevated carriage for vacuum cleaners and their attachments comprising, spaced upper and lower discs; an upright tubular column positioned centrally between said discs and rigidly secured thereto; said upper disc having a raised peripheral edge ring, a raised inner ring spaced therefrom and a series of spaced apertures formed in the surface between said raised rings; said tubular column having a series of upstanding tongues integral with the upper portion thereof and having its lower base portion smooth and unobstructed; and a series of supporting rollers secured to the under surface of the lower disc; whereby a vacuum cleaner and its attachments may be supported on the carriage and easily transported from room to room.

2,591,366
BOW NECKTIE
Edmund F. Mansour, Kansas City, Mo.
Application March 31, 1950, Serial No. 153,077
1 Claim. (Cl. 2—154)



A bow necktie comprising a frame, said frame including an elongated back strip having opposing ends, cross strips formed on the strip adjacent to its ends, said cross strips being coextensive in length and the length of said cross strips being approximately the width of the bow, and an elongated front strip superposed on and disposed parallel with said back strip and having cross strips of a length less than the length of the cross strips on the back strip formed on its ends, said front strip being shorter than the back strip, so that the cross strips thereon are spaced inwardly from the ends of the back strip, individual fabric coverings on each of said strips, and a spacer block interposed between the center sections of the front and back strips and a piece of binding fabric encircling the center sections of the strips and encompassing the spacer block, said binding fabric being secured upon itself to secure the front and back strips together.

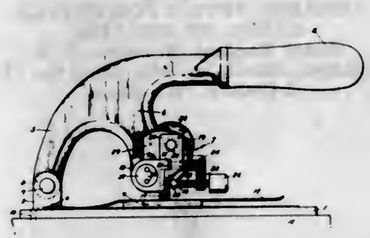
2,591,367
ALKYLATION OF ISOPARAFFINS WITH ISOMERIZED OLEFINS
Sumner H. McAllister, Lafayette, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 21, 1945, Serial No. 606,475
9 Claims. (Cl. 260—683.4)

1. A process of producing higher boiling hydrocarbons which comprises treating hydrocarbon containing an alpha-olefin of at least four carbon atoms per molecule under conditions at which said olefin is isomerized to an olefin of the same number of carbon atoms per molecule but having a more centrally located double bond, and alkylating an isoparaffin with the resulting isomerized olefin in the presence of an alkylation catalyst.

2,591,368
WATER- AND FLAMEPROOFING COMPOSITION
James Francis McCarthy, Mars, Pa., assignor, by mesne assignments, to Treesdale Laboratories and Textile Processing Company, a corporation of Pennsylvania
No Drawing. Application January 22, 1947, Serial No. 723,674
1 Claim. (Cl. 260—17)

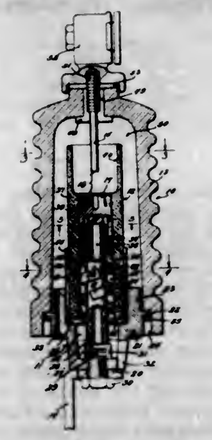
A water- and flameproofing composition consisting of 14 per cent by weight of a water dispersion of polyvinyl chloride containing 55 per cent of polyvinyl chloride, 6.5 per cent by weight of a plasticizing agent for the polyvinyl chloride selected from the group consisting of dibutyl phthalate, dioctyl phthalate, ethyl phthalyl ethyl glycollate, and methoxyethyl acetyl ricinoleate, said plasticizing agent being in the form of an aqueous emulsion containing 65% of the agent, 75.5 per cent by weight of a water dispersion of antimony oxide containing 70 per cent of antimony oxide, 3 per cent by weight of a 2% solution of sodium carboxymethyl cellulose and 1 per cent by weight of a 28% solution of ammonium hydroxide.

2,591,369
PALLET FOR STAMPING MACHINES
Henry A. Mintz, Norwood, Mass.
Application August 30, 1947, Serial No. 771,483
2 Claims. (Cl. 101—391)



1. A pallet for a stamping machine comprising a block adapted to support a line of type, said block having an elongated surface upon which the type is to be assembled and a surface extending at right angles from one edge of said elongated surface and upon which the end of said type is to rest, said pallet being open on the two sides facing said surfaces whereby said surfaces are freely accessible for the assembly of said type, an elongated clamping bar having the shape of a prism and having a clamping edge lying along a corner edge of said prism, said clamping edge being adapted to provide a substantially linear contact with the side faces of said line of type, said bar being carried by said pallet substantially parallel to both of said surfaces by means of a supporting rod pivoted to said block at each end thereof, the free ends of said rods being rigidly fastened to said clamping bar at the opposite ends thereof, said bar being movable relative to said pallet toward and away from said first-named surface, and means for forcing the clamping edge of said clamping bar into clamping engagement with the side faces of said type lying parallel with said first-named surfaces.

2,591,370
LIGHTNING ARRESTER
Rolland D. Nelson, Hales Corners, and Edwin A. Link, Milwaukee, Wis., assignors to Rural Transformer & Equipment Co., Milwaukee, Wis., a corporation of Illinois
Application March 29, 1951, Serial No. 218,232
14 Claims. (Cl. 313—231)

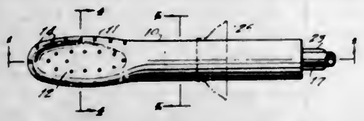


1. A lighting arrester comprising a line electrode, a ground electrode, an intermediate electrode disposed between and in spaced relationship with said other electrodes to form an air gap between it and each of said other electrodes, and a dielectric structure formed of arc extinguishing material confining one of said air gaps, said dielectric structure including a plurality of paths of travel for a discharge spark bridging said confined air gap, one of said paths of travel being shorter in length, more restricted and offering less resistance to the establishment of a discharge spark than the other of said paths of travel, the establishment of a discharge spark in said shorter more restricted path effecting an increase in resistance to its continued travel along said path of sufficient magnitude to divert the path of travel of the discharge spark to said longer less restricted path of travel wherein it is extinguished by the process of deionization.

2,591,371
DOUCHE NOZZLE
Raymond L. Nimmo, Fort Worth, Tex.
Application February 23, 1950, Serial No. 145,872
2 Claims. (Cl. 128—240)

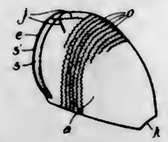
1. In a douche syringe comprising a cylindrical body portion having a water-inlet passage arranged longitudinally through the upper section thereof, the combination of a spray head

formed with said body portion having concavo-convex upper and lower surfaces and having a water passage therein communicating with the said inlet passage, a plurality of orifices spaced about said surfaces and about the perimeter of



said head, a water outlet passage in the lower section of said body arranged parallel to said inlet passage, and a port communicating with said outlet passage rearwardly of said head in the underside of said body.

2,591,372
SHOULDER PIECE
Regniaux Pierre Joseph Petit, Huy, Belgium
Application May 10, 1949, Serial No. 92,368
In Belgium May 27, 1948
8 Claims. (Cl. 2—268)



1. A shoulder-piece comprising, in combination, an upper piece of resilient fabric having a wide end and a narrow end, a shorter under piece of fabric of similar shape cut on the bias and having at its wide end a curved edge, said under piece having its edges lying inwardly of the upper piece of fabric and having all its edges sewn to said upper piece, the seam securing the curved edge of said under piece to said upper piece being along a substantially straight line drawn on said upper piece, whereby the shape of an arch is imparted to said upper piece and a closed air pocket is formed between said upper piece and said lower piece.

2,591,373
LOCKABLE KNEE JOINT FOR ORTHOPEDIC BRACES OR ARTIFICIAL LIMBS
Methodius Cirylius Petruch, Tampa, Fla.
Application December 16, 1950, Serial No. 201,166
5 Claims. (Cl. 128—80)



3. A lockable leg brace structure comprising elongated upper and lower brace members of strap-like structure, the adjacent ends of said members having mating concavo-convex arcuate bearing surfaces engaged in the erected positions of said members, coacting stop surfaces on said members engageable in the erected positions thereof, a connecting piece secured to the member having the concave bearing surface and having a projecting side plate lapped alongside the end of the member having the convex bearing, a hinge pin connecting said side plate and said last member concentrically with said bearing surfaces, locking notches formed in said members and aligned across said bearing surfaces in the erected positions of said members, a locking block slidable in one of said notches and extensible into engagement with the other of said locking notches, a block actuating finger secured at its lower end to said block and extending upwardly along the front edge of the upper of said members, and a pin carried by the upper end of said finger and projecting into said upper member, said upper member having a forwardly and downwardly angled slot receiving said pin.

2,591,374
CONDENSATION RETAINING RECEPTACLE
Charles E. S. Place, Highland Park, Mich.
Application October 19, 1945, Serial No. 623,380
4 Claims. (Cl. 65—13)



2. A coaster for association with a drinking glass, comprising a cup-shaped, upper portion adapted to receive a drinking glass therein, and a base portion having formed therein an annular capillary groove, the intersections of the side walls of said groove with the bottom surface of said coaster member forming a relatively sharp corner.

2,591,375
COOLING DEVICE FOR DRINKS, SOUPS, OR THE LIKE
Henry Radford, Brooklyn, N. Y.
Application March 29, 1948, Serial No. 17,616
5 Claims. (Cl. 62—1)



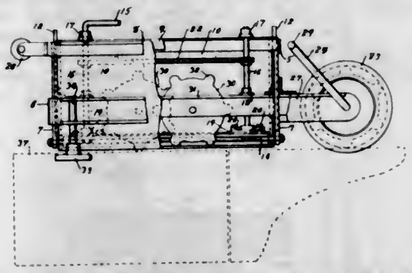
2. In a cooling appliance having an elongated container for a refrigerant, an elongated thermometer, said container having an elongated recess opening to one side thereof, insulation material lining the walls of said recess and having a recess exposed to the open side of said recess of the container, said thermometer being positioned in the recess of said insulation material, and a removable slide closing the open side of the recess of said insulation material removably retaining said thermometer in position in the recess of said insulation material, said slide having a semi-circular bottom end cooperating with a semi-circular bottom end of the recess of said lining material forming an opening through which the bulb of said thermometer is exposed.

2,591,376
JET-PROPELLED WHEELED VEHICLE
Vivian Spencer Rees, North Sacramento, Calif.
Application May 10, 1949, Serial No. 92,325
1 Claim. (Cl. 46—206)



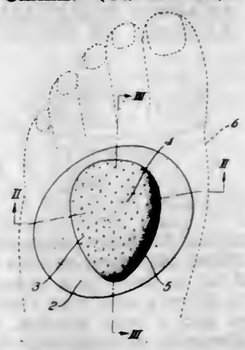
A toy vehicle comprising an elongated balloon having a jet tube projecting from one end thereof, and a support for the balloon comprising a longitudinal skeleton frame of small gauge resilient wire and including spaced side members which at the ends of the frame extend upwardly in curved and laterally converging relation with each other to form upstanding end members connected at the top, axles connecting the side members and extending laterally out therefrom, and relatively wide-spread narrow-tread wheels on the axles; the jet tube being secured to one end member at the top and there being means flexibly connecting the balloon at its other end to the other end member at the top thereof.

2,591,377
MORTAR APPLICATOR
Charles W. Sadler, Essex, Conn.
Application February 7, 1950, Serial No. 142,781
7 Claims. (Cl. 72—128)



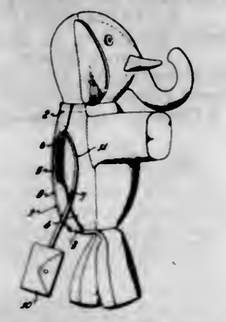
1. A device for applying mortar or the like upon a surface which comprises a frame, wheels for supporting said frame upon a surface, a hopper in said frame, the said hopper having an opening in the bottom thereof for passage of material therethrough, a shutter movable under said hopper for controlling the passage of material through said opening, and projections on said supporting wheels for causing vibration of the said device during the operation thereof.

2,591,378
METATARSAL ARCH SUPPORTING PAD
William M. Scholl, Chicago, Ill.
Application November 30, 1949, Serial No. 130,247
2 Claims. (Cl. 128—80)



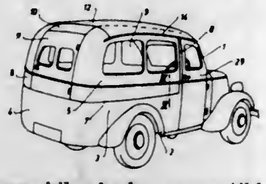
1. In a metatarsal arch supporting appliance, a sheet of material having the general contour of a wide oval, and a pad of cushioning material having substantially an ovate contour, said pad being carried by said sheet with the long median line of the pad disposed at an angle to both the long and short axes of said sheet, and said sheet carrying means to attach the appliance to the foot of a user.

2,591,379
TOY PURSE COMBINATION
Lottie Mae Schradermeier, North Hollywood, Calif.
Application May 29, 1950, Serial No. 165,043
1 Claim. (Cl. 150—35)



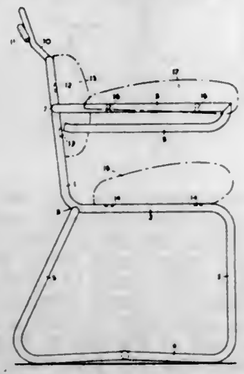
A toy in the form of a rag doll having two layers of fabric cover material extending across the back portion thereof to form therebetween a pocket, the outer layer being slit along the middle of the doll's back to form an entrance into said pocket, a zipper joining the edges of said slit, the outer layer extending from the slit around the body of the doll to form across the back thereof a flap the free outer side edge of which extends over and beyond the zipper of the slit, the side edges and the end edges of the pocket together with the end edges of the flap being stitched in position on the doll, and a band of fabric material placed lengthwise over the middle of the back portion of the doll and stitched at the ends thereof to the cover material to form a hand grip, the said cover material, flap and hand grip being tightly stretched over and snugly resting against the compressible surface of the rag doll.

2,591,380
CONVERTIBLE AUTOMOBILE BODY STRUCTURE
Otto Schreiner, Vienna, Austria
Application December 27, 1948, Serial No. 67,415
In Austria April 16, 1948
3 Claims. (Cl. 296—28)



1. An automobile body convertible for use either as a closed passenger vehicle or as a truck, and adapted to be fixed to a chassis, said body comprising a driver's cab, rear fenders, two lateral portions and a rear portion, said portions extending upwardly substantially to the top of said rear fenders, two opposite, removable, separate side wall sections extending behind said cab and above said lateral portions, said side wall sections comprising, at their upper, longitudinal edges and at their rear upright edges, curved portions directed towards each other, a separate, removable rear wall section between said side wall sections, a removable roof, a separate, removable, transverse member on the rear upper corner of the vehicle, and means for detachably uniting said side wall sections with said rear wall section and said transverse member on the one hand, and with said fixed body on the other hand, said curved portions of the members imparting rigidity thereto.

2,591,381
CHAIR HAVING GARMENT HOLDING ATTACHMENTS
Innes Scott-Dalgleish, St. Helier, Jersey, Channel Islands
Application February 20, 1948, Serial No. 9,692
In Great Britain February 25, 1947
2 Claims. (Cl. 155—190)



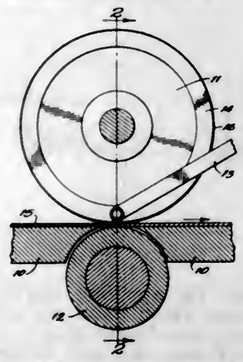
2. An armchair adapted to accommodate a suit of clothes and attendant garments in good shape without wrinkling or soiling which comprises a seat having front, rear and side edges, a back supported above the rear edge of the seat, two arms each of which is secured to said back and extends forwardly therefrom in substantially parallel spaced relationship with, and outside the side edge of, said seat and clothes hanging means carried by each arm comprising a horizontal bar rigidly secured to the forward end only of the arm and extending rearwardly therefrom beneath said arm in spaced relation thereto and offset from that side edge of the seat lying beneath the arm, the rear and unattached end of said bar being slightly curved upwardly towards the arm.

2,591,382
SCREEN SUPPORTED PAPER BAG FOR TANK CLEANERS
Archie E. Smith, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application October 30, 1948, Serial No. 57,558
6 Claims. (Cl. 183—51)



1. In a vacuum cleaner having a disposable dust collecting bag removably mounted within the cleaner body, the bag having an open mouth with an outwardly flared end portion including a smaller part and a larger part adapted for closing and handling the bag upon removal from the body, that improvement which comprises a support entirely within said cleaner body surrounding the smaller part of said flared end portion of said bag, said support being removably mounted within said cleaner body and said bag being removably held by said support with the larger part of said flared end portion extending through and positioned outwardly against the support, and a resilient annular gasket releasably sealing the outwardly positioned part of the bag end portion to the support and the support to said cleaner body, said gasket constituting the sole means resiliently holding the flared bag end between the support and the body.

2,591,383
PLASTIC-SEALING ELEMENT
Kenneth F. Spalding, Lodi, N. J., assignor to William F. Stahl, Kenilworth, Ill.
Application March 11, 1950, Serial No. 149,158
5 Claims. (Cl. 154—42)

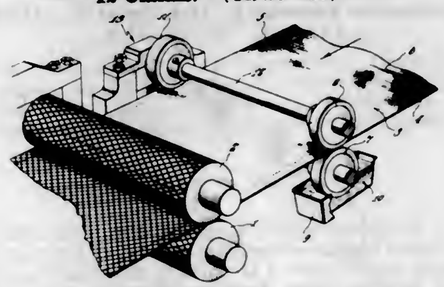


1. A plastic-sealing member comprising a wheel having a metallic rim adapted to be heated for effecting seals from plastic materials, said rim being coated to a thickness between .001 inch and .01 inch with a layer of buffer material formed of silicone varnish impregnated with spun glass fibers.

2,591,384
PRODUCTION OF TRI- AND TETRA-ISOBUTYLENE
Donald R. Stevens, Wilkinsburg, and Robert S. Bowman, Pittsburgh, Pa., assignors to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application December 4, 1947, Serial No. 789,745
11 Claims. (Cl. 260—683.15)

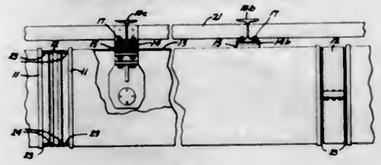
1. The process for preparing tri-isobutylene and tetra-isobutylene which comprises reacting isobutylene with di-isobutylene at a temperature between about 0° C. and about 110° C. in the presence of a catalytic amount of boron trifluoride-ether complex.

2,591,385
METHOD OF TREATING SELVAGE EDGES OF TEXTILE SHEET MATERIAL
Frederick A. Sunderhauf, Summit, N. J.
Application March 20, 1951, Serial No. 216,553
12 Claims. (Cl. 26—69)



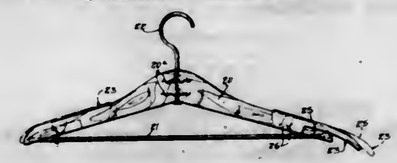
1. A method of embossing a strip of textile material having selvage edges along the longitudinal margins thereof, said method comprising the steps of applying to the selvage edges a plasticizing solution and then passing the strip between a pair of steel embossing rolls, whereby the plasticizing solution renders the selvage edges yieldable so as to prevent their fracture during passage between the rolls.

2,591,386
INSULATED SECTIONALIZED BUS DUCT SYSTEM
Nathan Swerdlow, Philadelphia, and George G. Abel, Media, Pa., assignors to General Electric Company, a corporation of New York
Original application August 31, 1948, Serial No. 47,128. Divided and this application November 1, 1949, Serial No. 124,925
5 Claims. (Cl. 174—70)



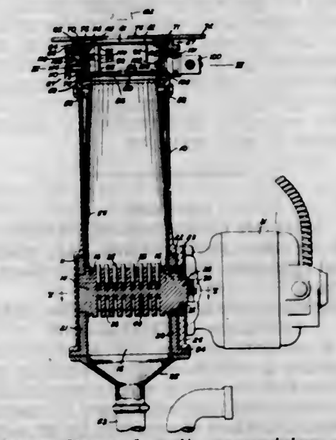
1. In an isolated phase bus run having an enclosing sheath for each phase conductor and constructed of a plurality of unitary structures each including an enclosing sheath, a first supporting means mounted exteriorly of and adjacent to each of said structures, a ground bar and a first mounting bar secured to said first supporting means and insulated therefrom, means for securing each of said structures to the adjacent first mounting bar, means for removably connecting said ground bar to a grounded ground bus, a second supporting means mounted exteriorly of and adjacent to each of said structures, a second mounting bar and a spacer member secured to said supporting means and insulated therefrom, means for securing each of said structures to the adjacent second mounting bar, and means for forming an insulating junction between the sheaths of adjacent unitary structures for minimizing the flow of circulating currents in said sheaths.

2,591,387
GARMENT HANGER ATTACHMENT
William L. Taub, Bronx, N. Y.
Application December 28, 1948, Serial No. 67,630
2 Claims. (Cl. 223—92)



1. A snap-on extension for an end portion of a main bar of a wooden garment hanger, comprising an elongated shell of uniform inverted U-shaped cross-sectional configuration from end to end and having a top wall for resting on the top portion of the end portion of the main bar and side walls depending along the sides of the end portion of the main bar, and inturned lips on the bottom edges of said side walls extended inward and adapted to extend along the bottom face of the main bar for retaining said shell against being lifted accidentally off the end portion of the main bar, said side walls being converged downward and inward to be resiliently biased outward by the main bar to frictionally grip the sides of the end portion of the main bar and maintain said lips in position beneath the end portion of the main bar.

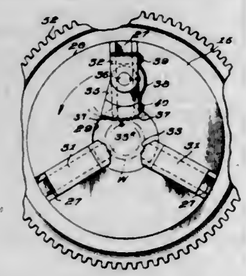
2,591,388
GARBAGE DISPOSER
John C. Trotter, Burlington, Vt., assignor to Bell Aircraft Corporation, Wheatfield, N. Y.
Application October 23, 1946, Serial No. 705,170
1 Claim. (Cl. 146—123)



A garbage disposal unit, comprising a casing adapted to receive material to be comminuted,

a cutter block disposed within said casing and having a discharge opening, said block having a plurality of cutting teeth extending into the discharge opening, a cutter head carried by said casing and in coactive relation with said block, said head having its axis in a substantially horizontal plane, a plurality of cutter blades carried by said head and cooperating with said teeth, an electric motor for driving said cutter head, an electric circuit for energizing said motor, a control element carried by said casing, means for supplying running water to said control element and said casing, a normally open safety switch connected in said circuit and adapted to be closed under normal operating conditions of said disposal unit, a water-actuated safety means connected in said circuit and responsive to the level of the water in said disposal and said control units to maintain said circuit closed under proper operating conditions.

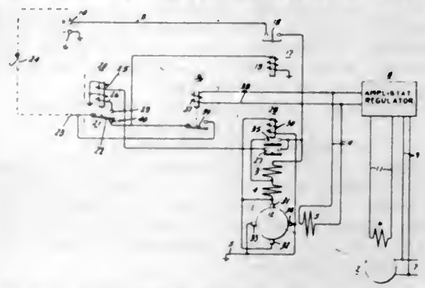
2,591,389
CHUCK
Richard A. Wallace, Merion, Pa.
Application January 5, 1950, Serial No. 136,918
21 Claims. (Cl. 279—114)



12. In a power operated work gripping chuck assembly, an inner tubular spindle having a circular jaw housing secured to one end thereof, a plurality of work engaging jaws supported by the housing for adjustment radially thereof, a brake normally engaged with the outer cylindrical wall of the housing and operable to restrain rotation thereof, an outer tubular spindle concentric with the inner spindle, means mounting the outer spindle for rotation, drive means connected to the outer spindle, friction means operatively associated with the outer spindle and said jaws for moving the jaws radially inwardly of the housing upon rotation of the outer spindle when the inner spindle is restrained against rotation by said brake, and manually operable cam means for releasing said brake for simultaneous free rotation of both spindles.

2,591,390
MOTOR CONTROL SYSTEM
James A. Walley, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application May 1, 1951, Serial No. 223,940
11 Claims. (Cl. 318—452)

1. In a control system for a direct current motor having a regulated field winding adapted to be connected in circuit with a regulator, a circuit for energizing the armature of said motor, means repsonsive to a characteristic of said motor for opening said energizing circuit, and means adapted to be connected in circuit with said regulator and responsive thereto for rendering said circuit opening means ineffective so that said



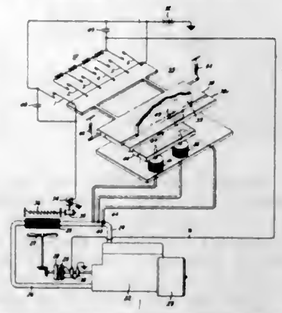
energizing circuit is not opened when said regulator is functioning.

2,591,391
FISHING LURE
Michael E. Walsh, Des Moines, Iowa
Application February 13, 1950, Serial No. 143,999
2 Claims. (Cl. 43—43.6)



1. In combination, a spring clip, comprising, a strand length of resilient wire first bent at its center portion into a U-portion, the resulting two arm portions then bent downwardly and rearwardly, then bent into a second U-portion and continuing to a bend point, then forwardly together and adjacent each other, and a fishing fly lure secured to the free end portions of said arms that are together and adjacent; said clip designed so that said first U-portion is capable of being passed through the eye of a fishing hook and the two arm portions of said clip are capable of yieldingly engaging the shank of the fishing hook so that said lure is yieldingly extended toward the barbed point on the hook and in substantially the same longitudinal plane as the barbed point of the hook so as to obscure the barbed point.

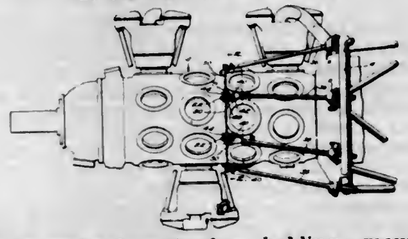
2,591,392
TEMPERATURE CONTROL DEVICE
Earnest F. Weiser, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application July 22, 1950, Serial No. 175,315
9 Claims. (Cl. 201—48)



2. An electric circuit controlling device for maintaining a temperature condition relatively

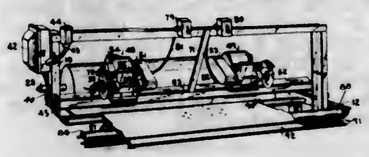
constant, said device comprising lever means movable about a fulcrum between two stop positions, a resistor having a plurality of sections, a plurality of resiliently mounted contact members, an operating bar associated with said lever means and disposed to sequentially operate said contact members to shunt said resistor sections step by step with movement of said lever means in a first direction, an expansible bellows having an insulated bulb arranged to be substantially immediately responsive to said temperature condition for actuating said lever means in one of said two directions, and an expansible bellows having a bulb and associated thermal storage means and arranged to be responsive to said temperature condition after a predetermined time delay caused by said thermal storage means, with said second mentioned expansible bellows arranged to move said lever means in the other of said two directions, oppose the action of said first mentioned bellows and provide stabilization in the operation of said electric circuit controlling device.

2,591,393
ENGINE MOUNT ATTACHMENT
Bror G. Anderson, South Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application October 4, 1949, Serial No. 119,546
13 Claims. (Cl. 121—194)



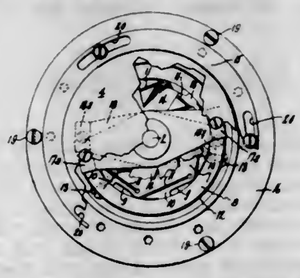
1. An attachment for holding mounting brackets to an engine including a crankcase, a series of angularly spaced mounting brackets arranged in a ring around the crankcase, and bolts extending circumferentially around the crankcase between adjacent brackets and engaging with said brackets such that by tightening the bolts the brackets are held radially securely against the crankcase.

2,591,394
TRIMMING AND SLITTING MACHINE FOR QUILTS AND THE LIKE
David Barth, New York, N. Y.
Application October 23, 1948, Serial No. 56,148
3 Claims. (Cl. 164—65)



1. In a trimming machine having rollers for guiding a strip of material from a feed-off roller across cutting plates and onto a driven take-up roller, means for trimming the side edges of the strip of material as it passes over the top of the cutting plates, comprising an inverted U-shaped frame extended above the cutting plates and slightly to one side thereof on the side adjacent the take-up roller, a bar extended across said frame slightly above the cutting plates and formed with a horizontal elongated slot, a cutter assembly for each of the cutting plates for trimming the side edges of the strip of material, each of said cutter assemblies comprising a mounting plate having one edge portion extended into the slot of said bar, a disc cutter rotatively mounted on the bottom face of said mounting plate to cooperate with the respective cutting plate in trimming the respective side edge of the strip of material when said disc cutter is rotated, means on said mounting plate for rotating said disc cutter, and means for retaining said cutter assemblies in desired spaced positions along the length of said slot in said bar for varying the width of the trimmed portion of said strip of material, said bar having its ends pivotally attached to said U-shaped frame at the sides thereof so that said cutter assemblies can be raised to inoperative positions in which their disc cutters will be raised above the cutting plates.

2,591,395
MAGNETIC TORQUE DEVICE
Gardell L. Bennett, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application August 20, 1949, Serial No. 111,497
1 Claim. (Cl. 172—284)

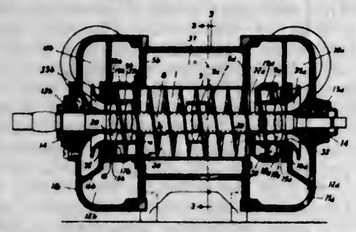


In a constant torque device, a rotatable hub, a web of non-magnetizable material fixed to said hub and having a plurality of peripheral grooves forming circumferentially spaced peripheral mounting bosses, said web being slotted non-radially beneath each said boss to render said web radially resilient in the region of each said boss, an annulus of magnetizable material mounted on said bosses, and a magnet fixedly mounted in magnetizing relation with said annulus, whereby said resilient mounting bosses firmly retain said annulus in position as said annulus expands and contracts in response to heat generated by rotation in the field of said magnet.

2,591,396
CENTRIFUGAL SEPARATOR
Nore Einar Bergner, Appelviken, Sweden, assignor to Aktiebolaget Separator, Stockholm, Sweden, a corporation of Sweden
Application October 15, 1946, Serial No. 703,347
In Sweden November 2, 1945
25 Claims. (Cl. 209—144)

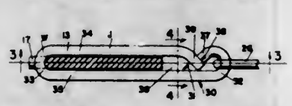
1. Apparatus for centrifugally separating particles from a fluid, which comprises a housing containing a separating chamber having an inlet for the mixture of fluid and particles and an outlet for the purified fluid, means for directing the mixture tangentially into the chamber through said inlet to cause the mixture to rotate around the chamber, a rotary helical worm in the chamber disposed substantially coaxially there-

with and operable to discharge from the chamber particles suspended in the fluid, said mixture inlet being located near the outer edge portion of the worm, and said purified fluid outlet being located near the inner edge portion of the worm, and



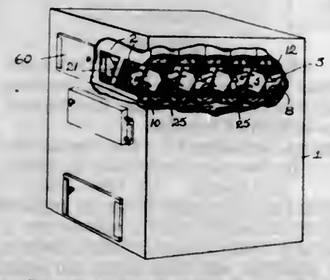
means for rotating the worm at a predetermined angular speed relative to the angular speed of particles suspended in the fluid adjacent the worm, to effect said discharge of the particles in a direction generally parallel to the rotation axis of the worm.

2,591,397
JACK EYE FOR LOOM HARNESS
William A. Blanchard, Millbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application April 9, 1949, Serial No. 86,583
8 Claims. (Cl. 139—88)



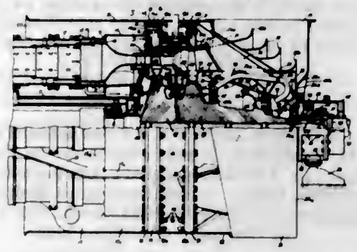
8. A jack eye for a loom harness having a harness lever and a harness frame connector, the jack eye comprising a single piece of wire flat on one side and rounded on the opposite side bent on itself to form an elongated jack eye, part of the wire between the ends of the jack eye being bent toward other parts of the wire also between the ends of the jack eye and with said other parts forming a substantially closed eyelet for the connector and a substantially closed slot for the harness lever, the wire being bent so that the rounded side thereof is on the inside of said eyelet and bight.

2,591,398
FIRE TUBE FURNACE WITH FLUE GAS TURBULATOR
Walter B. Brock, Vernon, N. Y.
Application July 1, 1949, Serial No. 102,697
3 Claims. (Cl. 110—97)



1. In a flue gas heater having substantially horizontal fire tubes or flues, the combination with a turbulator positioned within any of said tubes or flues, said turbulator consisting of a strip of metal bent to form a series of alternating right and left hand deflecting plates, the alternate pairs of right and left hand deflecting plates lying in parallel planes to each other, the axis of the bends between the respective plates disposed at an oblique angle to the edges of the turbulator strip.

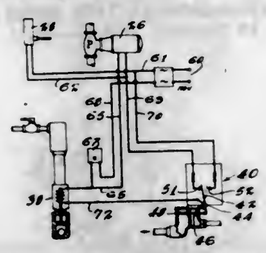
2,591,399
POWER PLANT FRAME STRUCTURE HAVING AIR-COOLING MEANS FOR TURBINE ROTORS AND EXHAUST FRAME STRUTS
Bruce O. Buckland and Alan Howard, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Original application June 11, 1947, Serial No. 754,002. Divided and this application January 20, 1951, Serial No. 206,966
5 Claims. (Cl. 60—39.32)



4. In a high temperature turbine powerplant having a rotor with an axial flow bucket-wheel, the combination of a main frame including a continuous ring member surrounding and substantially in the plane of the bucket-wheel, an axially extending frame member of circular cross section arranged coaxial with the rotor and adjacent the discharge side of the bucket-wheel, bearing means for the rotor carried by said frame member, an exhaust casing having a radially outer end portion adjacent the bucket-wheel secured to the main frame ring and a second radially inner end portion secured to the axially extending frame member at a location remote from the bucket-wheel, the exhaust casing having walls defining an annular turbine discharge passage for the bucket-wheel and being fabricated of comparatively thin flexible sheets whereby the casing is free to change its dimensions and deflect as necessary to permit differential thermal expansion relative to the supporting frame, a plurality of circumferentially spaced struts each having a first end portion secured to the main frame ring and extending axially and radially inward through the turbine discharge passage and having a second end portion secured to the axially extending frame member, walls defining a cooling shroud surrounding each of the struts and spaced therefrom to form a cooling fluid passage, and means for circulating a cooling fluid through said passages to maintain the support struts at a comparatively low temperature whereby changes in the dimensions of the supporting frame during operation are minimized.

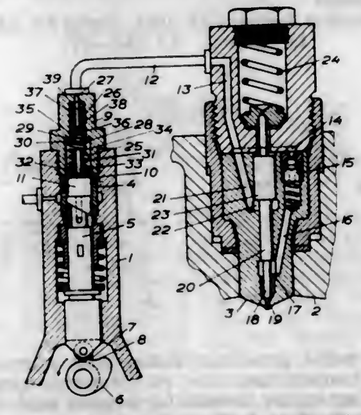
2,591,400
WATER HEATER SYSTEM
Adolf J. Burklin, Toledo, Ohio, assignor, by mesne assignments, to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application May 8, 1947, Serial No. 746,760
5 Claims. (Cl. 236—23)

2. In a water heater system having a storage unit fed by a cold water inlet and a single heating unit with connections therebetween for circulation of water, and an outlet in the return connection from the heating unit to the storage unit for discharge of high temperature water to a high temperature line and an additional outlet from the storage unit for discharge of lower temperature water to a low temperature line; a pump to circulate water through the system, a thermostat responsive to the temperature of water in the storage unit and connected by an electric circuit to said pump and heating unit for actuating the pump and heating unit to



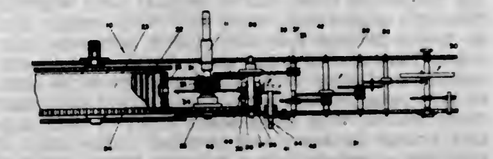
circulate water through the system and maintain the water in the storage unit at a predetermined temperature at all times, a switch electrically connected to said heating unit to actuate the same, and a flow motor in said high temperature line actuating said switch to operate said heating unit independently of said thermostat and of the temperature of water in the storage unit and releasing said switch to close the circuit from the thermostat to the heating unit when water is not being drawn from the high temperature line for actuation of the heating unit responsive to said thermostat.

2,591,401
FUEL INJECTION DEVICE
Hilding Gunnar Camner, Storangen, Sweden, assignor to Aktiebolaget Atlas Diesel, Sickla, Sweden, a corporation of Sweden
Application May 27, 1947, Serial No. 750,816
In Sweden March 8, 1947
23 Claims. (Cl. 103—41)



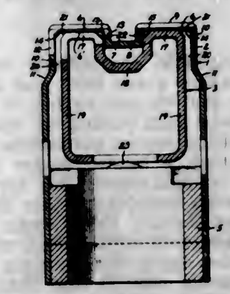
1. A fuel injection device including a fuel conduit and a pressure reduction valve permitting flow of fuel in both directions in said conduit and comprising a valve housing, a passage in said valve housing forming a portion of the fuel conduit, a seat in said passage in the housing, a spring loaded member movable in the longitudinal direction of the passage and forced towards said seat by the spring load and having a plane surface substantially perpendicular to the longitudinal direction of the passage, a passage in said spring loaded member opening in said plane surface, and a valve member movable in the longitudinal direction of the passage in the housing having a plane surface substantially perpendicular to said direction and cooperating with the plane surface of the spring loaded member when the fuel pressure acts on the valve member against the action of the spring load.

2,591,402
TIMING MOVEMENT
Arthur B. Campbell, La Salle, Ill., assignor to General Time Corporation, New York, N. Y., a corporation of Delaware
Application October 26, 1949, Serial No. 123,707
2 Claims. (Cl. 161—15)



1. A timing movement comprising a spring driven barrel, a first shaft adapted to be rotated by said barrel, a gear affixed to said shaft and connected through gearing to an escapement for controlling the speed of rotation of said shaft, a gear assembly including two gears, one having a different number of teeth from the other, one mounted on the shank of the other and each having a slot in its shank, a pin passing through said slots and into said first shaft so that said gear assembly is axially slidable on said shaft but rotatable with said shaft, means to slide said gear assembly from a first position to a second position, an indicator shaft mounted parallel to said first shaft, two gears affixed to said indicator shaft and adapted to mesh with one of the gears in said gear assembly when it is in said first position and the other adapted to mesh with the other gear of said assembly when it is in said second position, and means to shift and lock said assembly in either the first or second position.

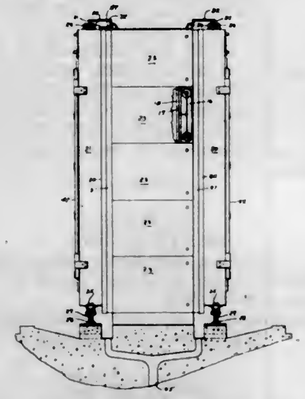
2,591,403
SHAVER HEAD
Louis C. Carissimi, Fairfield, Conn., assignor to Remington Rand Inc., New York, N. Y., a corporation of Delaware
Application June 26, 1947, Serial No. 757,278
2 Claims. (Cl. 30—43)



1. In a dry shaver head including a stationary outer cutter of inverted substantially channel form having plural transverse laterally offset cutting bars, the outer ends of which define the upper terminals of downwardly extending vertical open

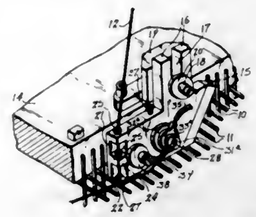
slots, an inner cutter of inverted substantially channel form, slidable longitudinally in said outer cutter having an operative face defined by transversely extending spaced cutter bars for cutting engagement with the cutter bars of said outer cutter, the outer ends of said inner cutter bars being bevelled to provide cutter bar portions extending outwardly beyond the cutting portions thereof and defining the upper terminals of downwardly extending vertical open slots, means for resiliently urging the outer face of said inner cutter into sliding cutting engagement with the backs of said cutter bars of said outer cutter, said outer bevelled ends of the inner cutter bars being spaced inwardly from the inner side walls of said outer cutter a distance greater than the thickness of said outer cutter and greater than the size of hair to be cut, and said vertical slots of said inner cutter being parallel to and spaced from the respective outer cutter vertical slots whereby hair and bristle may enter said outer cutter slots to freely project into the spaces between outer cutter bars and into the space between the outer ends of said inner cutter bars and the inner sides of said outer cutter before engagement with said inner cutter, with subsequent entry of said hair and bristle between the bevelled outer ends of said inner cutter bars for being firmly gripped therebetween before reaching the portions of said inner cutter bars engaged with said outer cutter bars for cutting of said hair and bristle.

2,591,404
ELECTROSTATIC PRECIPITATOR
Leonard H. Carlson, Braintree, Mass., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 22, 1950, Serial No. 197,066
11 Claims. (Cl. 183—7)



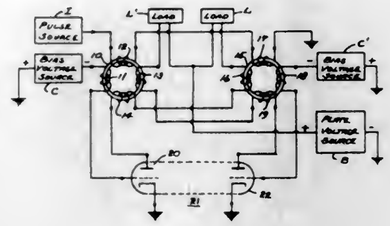
5. An electrostatic precipitator comprising a first casing having a gas inlet and a gas outlet, a precipitator unit in said casing, a first washer box aligned with said casing at said inlet and having gas sealing means contacting said casing around said inlet, a liquid header in said box, spray nozzles on said header for spraying liquid downstream with respect to gas flow on said unit, means for moving said header across said inlet, a second washer box aligned with said casing at said outlet and having sealing means contacting said casing around said outlet, a second liquid header in said second box, spray nozzles on said second header for spraying liquid upstream on said unit, means for moving said second header across said outlet, a second casing having a gas inlet and outlet, a precipitator unit in said second casing, and means for simultaneously moving said boxes from alignment with said first casing into alignment with said second casing.

2,591,405
STOP MOTION DEVICE FOR KNITTING MACHINES
Joseph S. Carter, Hartford, Conn., assignor of one-third to Samuel J. Rosenstein, and one-third to Leo D. Rosenstein, both of Hartford, Conn.
Application November 15, 1950, Serial No. 195,751
10 Claims. (Cl. 66—163)



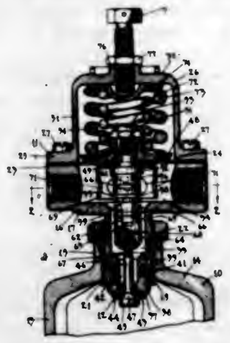
1. A stop-motion device for a knitting machine, comprising, in combination with the yarn guide or carrier through which ordinarily the yarn is passed for delivery therefrom directly to the field of operation of the knitting machine needles and seriatim to each needle as it projects to take the yarn, a means for utilizing some one of the needles as one of two contact points functionable when mutually touching to affect an electric circuit in such manner as to cause actuation of the electric knock-off mechanism of the stop motion.

2,591,406
PULSE GENERATING CIRCUITS
Elbert P. Carter, Wayland, and Clifford M. Hammel, Winchester, Mass., assignors to Transducer Corporation, Boston, Mass., a corporation of Delaware
Application January 19, 1951, Serial No. 206,774
19 Claims. (Cl. 250—27)



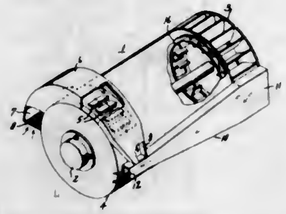
1. A pulse generator comprising a magnetic binary transformer core, an electronic amplifier having an anode, means for biasing said amplifier to cut-off, a first winding on said core connected to said anode, an anode voltage source connected to said winding, means for causing said amplifier to conduct and to supply anode current through said winding for saturating said core in one direction and then to cease to conduct, a second winding on said core, and means for flowing current through said second winding for saturating said core in the opposite direction.

2,591,407
PRESSURE REGULATOR
Richard T. Cornelius, Minneapolis, Minn.
Application January 11, 1946, Serial No. 640,459
2 Claims. (Cl. 50—23)



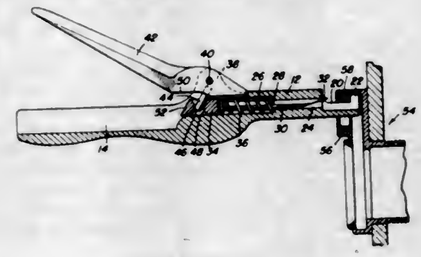
1. A pressure regulator comprising a tubular container having an upper end wall formed with a threaded outlet neck, a nipple screwed into said neck, a bushing in the lower end of said nippel having a groove extending about the same and a shoulder engaging the end of the nipple, an O-ring in said groove engaging the inner surface of the nipple, an insert in the end of said bushing and provided with a valve seat extending below the end wall of the container and said nipple, a valve for engagement with the valve seat and pressure responsive means for operating said valve.

2,591,408
SELF-VENTILATED DYNAMOELECTRIC MACHINE HAVING AN AIR CLEANER
John H. Crankshaw, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application September 3, 1949, Serial No. 113,987
9 Claims. (Cl. 183—79)



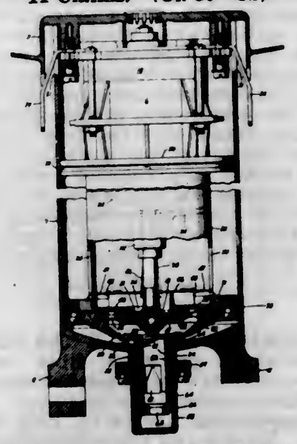
1. A self-ventilated dynamoelectric machine comprising a fan for drawing ventilating air therethrough, a cover member for said machine having an opening formed in its peripheral surface at one end thereof for admitting ventilating air to said machine under the influence of said fan and a second opening formed in its peripheral surface at the other end thereof for discharging air from said machine, a passage member having an air entrance at one end thereof and communicating with said first opening for directing air thereto, a second passage member having one end communicating with said second opening for collecting air discharged from said machine and its other end communicating with the other end of said first passage member for sucking dirt out of said first passage member and for blowing said dirt into the atmosphere.

2,591,409
TOOL FOR REMOVING OVERFLOW TUBE THREADS IN TOILETS
John F. Dahl, Palo Alto, Calif.
Application October 7, 1949, Serial No. 120,115
2 Claims. (Cl. 30—91)



1. A tool for removing an inner tube threaded into an outer tube without destroying the internal threads of said outer tube comprising a tubular member having a channel handle integral therewith, a head on said tubular member adapted to grip the inner edge of said inner tube, a plunger having a pointed shearing edge slidable in said tubular member, resilient means normally urging said plunger away from said gripping head, a head on said plunger having a cam slot therein, a lever pivoted to said handle having a pin extending into said cam slot, said pin urging said plunger toward said gripping head upon compression of said lever toward said handle, and a means for applying further pressure on said plunger when the pointed shearing edge just abuts the inner tube to drive the shearing edge therethrough, said last-named means including an inclined surface on said plunger head and a face on the bottom of said lever adapted to bear against said inclined surface as the lever enters said channel handle.

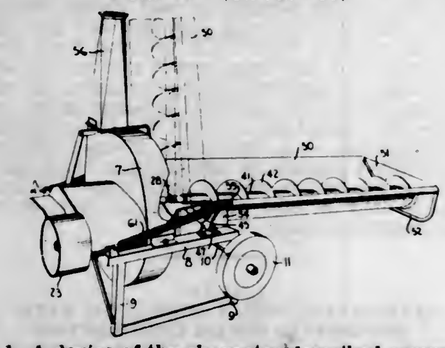
2,591,410
HYDRAULIC PRESS OPERATOR WITH AUTOMATIC SPEED REGULATION
Carl S. Dayton, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application September 28, 1949, Serial No. 118,348
11 Claims. (Cl. 60—52)



1. In combination, a cylinder; a piston therein; a work device to be operated by said piston, and valve means at the entrance to said cylinder for controlling fluid flow thereinto in relation to the

travel of the piston therein, said valve means including a valve body in communication with said cylinder, mutually telescoping tubular valve elements in said body and providing flow paths of different capacities according to the position of said elements with respect to said body, one of said valve elements being mechanically connected to said piston for movement within said body simultaneously with motion of said piston in said cylinder, means for restraining movement of a second valve element with respect to said body, means comprising a lost-motion mechanical linkage between said valve elements to delay movement of said second element until after a predetermined piston movement, and means for introducing pressure fluid into said body through at least one of said valve elements for flow into said cylinder to perform work on said piston.

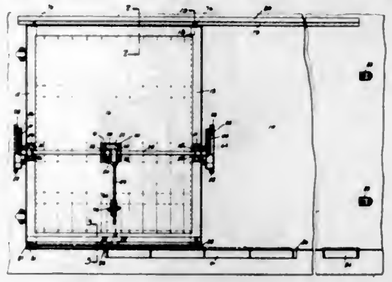
2,591,411
FORAGE BLOWER WITH PIVOTED FEED TROUGH
Quirin C. Delsman and Kenneth L. Surfus, Manitowoc, Wis., assignors to Smalley Manufacturing Company, Manitowoc, Wis., a corporation of Wisconsin
Application March 25, 1949, Serial No. 83,452
8 Claims. (Cl. 302—37)



1. A device of the character described comprising the combination with a frame and a feed trough in pivotal connection for relative oscillation, the frame being provided with stationary ground supports and with an alternatively useable wheel supported axle, the wheels and axle being disposed above the ground level when said frame is carried on said supports, the weight of the frame being shifted to the wheel supported axle upon the relative oscillation of the frame respecting the feed trough, the pivotal connection between the frame and the feed trough being adapted to permit of the elevation of the feed trough to permit the passage of a vehicle and being also adapted to accommodate the pivotal movement of the frame respecting the feed trough for the transfer of frame weight from said ground support to said wheel supported axle.

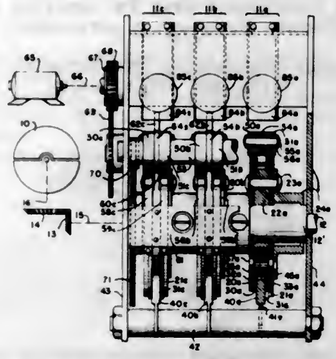
2,591,412
LATERALLY MOVABLE CAR DOOR
Frank Ditchfield, Cleveland, Ohio, assignor to The Youngstown Steel Door Company, Cleveland, Ohio, a corporation of Ohio
Original application August 11, 1945, Serial No. 610,315. Divided and this application September 24, 1947, Serial No. 775,785
4 Claims. (Cl. 20—23)

1. In a railway house car embodying a wall provided with a door opening and having a header and a sill, a track carried by said sill, a door, balls supporting said door for transverse movement upon said track and said sill into and out of said door opening and for longitudinal movement upon said track, said balls rolling along said track and sill and along said door during said transverse movement of said door and along said track and door during said longitudinal



movement of said door, transverse guide slots formed in said header, guide means secured to said door and slidable into and out of said slots, said guide slots and guide means cooperating to guide the upper edge of said door into and out of said door opening in substantially parallel relationship to said wall, and means secured to said car, said latter means engaging said guide means to limit outward movement of said door.

2,591,413
APPARATUS FOR POSITIONING A ROTARY CONTROLLED ELEMENT
Harold F. Elliott, Palo Alto, Calif.
Application September 19, 1947, Serial No. 775,026
27 Claims. (Cl. 192—142)



1. Apparatus for positioning a rotary controlled element in a predetermined angular position comprising: a fast member rotatable within a multi-revolution range, including at least one conductive sector less than 180 degrees; a slow rotatable member including at least one conductive sector less than 180 degrees; conductive sensing means for engaging said slow member and movable, when said slow member is in a preselected angular position, into engagement with said fast member; an electrical reversible system for driving said members at a preselected speed ratio; control circuits included in said electrical system comprising said sensing means and said conductive sectors of said rotatable members for determining the direction of rotation of said system to effect direct homing of first said slow member to its preselected angular position and then said fast member to a preselected angular position related to said predetermined position of said controlled element; and means for providing a driving connection from one of said rotatable members to said controlled element.

2,591,414
FORM FOR USE IN MAKING CEMENT-FIBER BOARDS
Armin Elmendorf, Winnetka, Ill.
Application August 3, 1950, Serial No. 177,443
4 Claims. (Cl. 25—119)

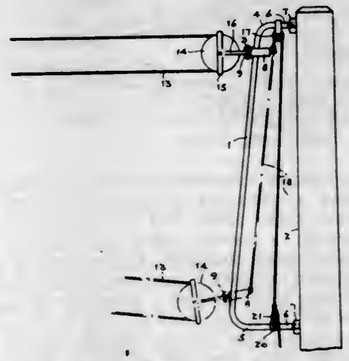


1. An open ended form for use in manufacturing cement-fiber board, consisting of a bottom wall having square ends and two parallel side walls that are somewhat higher than the thickness of the board to be produced, the side walls being slightly shorter than the bottom wall, the bottom wall having on the under side a downwardly protruding portion as wide as the distance between the side walls, and the thickness of said protruding portion being equal to the difference between the height of the side walls and the thickness of said board.

2,591,415
PROCESS FOR THE MANUFACTURE OF AROMATIC NITRILES
Rudolf Engelhardt, Leverkusen-Bayerwerk, Germany, and Hanns Arledter, Hamden, Conn., assignors to Farbenfabriken Bayer, Leverkusen, Germany
No Drawing. Application July 12, 1949, Serial No. 104,384. In Germany November 26, 1948
8 Claims. (Cl. 260—465)

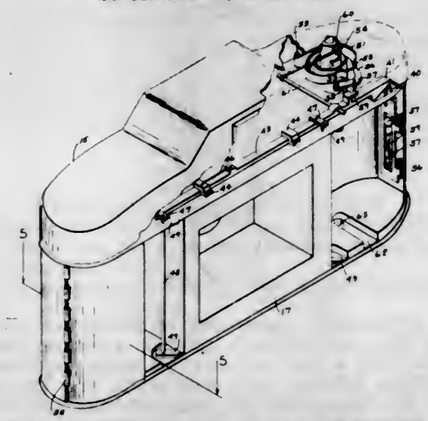
1. A process for the manufacture of an aromatic nitrile, which comprises reacting in the vapor phase a nuclear halogenated aromatic compound with hydrogen cyanide at a temperature of between about 400 and about 1000° C. in the presence of a metallic catalyst containing at least one metal of the empirical group consisting of copper and silver.

2,591,416
CLOTHESLINE HOIST
Thomas R. Foster, North Bay, Ontario, Canada
Application August 9, 1949, Serial No. 109,367
In Canada November 16, 1948
4 Claims. (Cl. 211—119.17)



1. A clothes line hoist comprising a track of circular sections supported in a vertical plane and inclined outwardly of the supporting structure from top to bottom, a carriage in the form of a ring casting having elongated side wall portions and joining end wall portions completely encircling said track, a horizontal shaft extending between the side wall portions adjacent one end of the casting, a single grooved roller journalled on said shaft and having its grooved surface engaging the inner surface of said track, the end wall portion remote from said shaft having metal at the edges thereof turned forwardly to form two spaced horizontal flanges forming an integral clothes line supporting head and affording casting rigidity, and vertical pin means removably supported between said flanges and adapted to form vertical pivots to support a plurality of clothes line pulleys free to swivel transversely of the track.

2,591,417
ROLL FILM CAMERA
Jack Frye, Sedona, Ariz.
Application March 8, 1950, Serial No. 148,478
20 Claims. (Cl. 95—31)

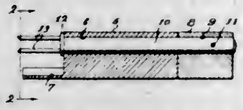


1. In a rollfilm camera, a casing having a film magazine compartment and an exposed film storage compartment, an exposure area between said compartments comprising a frame, a cover hinged to said casing and overlying said frame and compartments, film transport means affixed to said cover and extending into said casing, for transporting film from said magazine compartment into said storage compartment after each exposure, locking means for retaining said cover in closed position, a power operated film rewind mechanism for returning the film from said storage compartment to said magazine compartment, said mechanism being in a tensioned position while there is film in said storage compartment, and in a rewound position when said film is returned into said magazine compartment, a manual release for said locking means, and means for retaining said release during said tensioned position and for releasing said retaining means upon said rewound position of said mechanism.

2,591,418
PIN CURLER
Evelyn N. Gathman, Williston, N. Dak., assignor of one-fourth to William Henrickson, Appam, N. Dak.
Application April 22, 1949, Serial No. 89,080
1 Claim. (Cl. 132—33)

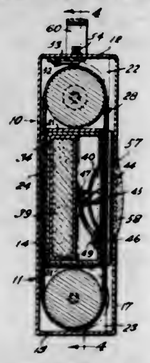
A hair curler comprising a body, a shaft disposed through the body and having one end bi-

furcated, a knob secured to the other end of the shaft and a lip having an arcuate cross sectional area protruding from the body and in close spaced relation with respect to and presenting its con-



cave face toward the bifurcated end of the shaft, said body and knob being formed with eccentrically located bores through which the shaft extends.

2,591,419
FLASHLIGHT WITH MOVABLE VARI-COLORED LIGHT FILTER
Nicholas D. Gheorghiu, New York, N. Y.
Application August 5, 1949, Serial No. 108,762
2 Claims. (Cl. 240—10.65)



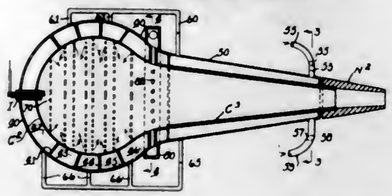
1. A flashlight comprising an elongated, relatively flat case having a top wall, a bottom wall, a front wall, a rear wall and side walls, partitions extending between said side walls and spaced from the front and rear walls and dividing the case into upper, lower and intermediate compartments, a roller journalled in each of said upper and lower compartments, an endless light filter or screen trained over said rollers and extending along the front and rear walls on the inner sides thereof and having longitudinally spaced translucent sections of different colors and a transparent section, one of said side walls having an opening communicating with the intermediate compartment, a section removeably positioned in said intermediate compartment and constituting a container having an open end disposed adjacent the other side wall of the case when said section is in a fully applied position, a dry cell battery mounted in said container section, a reflector mounted in the container section and opening outwardly of one wall thereof and toward the front wall of the case, said front wall having an opening provided with a lens disposed in front of said reflector, a light bulb mounted in the reflector, a conductor strip engaging one contact of the light bulb and one contact of the battery and supported by the container section and insulated therefrom, a manually actuated switch slidably mounted on said case and in electrical contact with the other contact of the light bulb, a conductor strip supported within the case and insulated therefrom and having a portion in electrical contact with the other contact of the battery and another portion thereof disposed to be contacted by the switch in one position thereof for energizing the light bulb, said switch being movable out of engagement with the last mentioned electrical conductor for de-energizing the light bulb, said endless filter or screen having a portion disposed between the reflector and lens, and means for manually revolving one of the rollers for moving different portions of the filter or screen into a position in front of said reflector.

2,591,420
CULTIVATOR
David E. Gillespie, David City, Nebr.
Application February 3, 1949, Serial No. 74,337
7 Claims. (Cl. 97—59)



1. In a hand cultivator having a wheel, a wheel shaft, a frame for supporting cultivator teeth and a handle, said frame comprising a first pair of oppositely disposed Z-shaped members having one of their ends journalled upon said shaft, a U-shaped member the bight of which extends transversely and cross-connects said Z-shaped members and the legs of which comprise extensions of said Z-shaped members, a second pair of Z-shaped members connecting said legs to said handle, and a pair of members connecting said handle to said first named Z-shaped members adjacent said shaft.

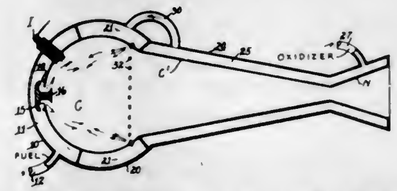
2,591,421
COMBUSTION CHAMBER JACKET WITH ALTERNATE COOLING PASSAGES OF FUEL AND OXIDIZER
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application June 28, 1946, Serial No. 680,228
1 Claim. (Cl. 60—39.46)



A combustion chamber for high energy fuel comprising a chamber portion in which initial combustion takes place and an elongated chamber extension, a jacket casing enclosing a jacket space about said chamber and chamber extension, and said extension having a wall of circular inner section and having a plurality of longitudinal ribs on the outer face of said wall and with the tops of said ribs closely adjacent said jacket casing, said ribs thereby dividing said jacket space into a series of longitudinal segmental recesses, and certain of said ribs engaging said

jacket casing and dividing said longitudinal recesses into associated groups, means to supply a cooling liquid fuel and a cooling liquid oxidizer to alternated groups of said recesses at the ends thereof remote from said chamber portion and to discharge said liquids and vapors thereof from said recesses at the ends thereof which are adjacent said chamber portion, a plurality of annular partitions dividing the chamber jacket space into a plurality of adjacent annular zones concentric with the chamber axis and means to conduct said liquids and vapors from said groups of recesses in said chamber extension to said annular jacket zones and from said jacket zones to said chamber portion in which initial combustion takes place, and said conducting means conveying said liquids and vapors from alternated groups of recesses to alternated annular zones, whereby mixing in said combustion chamber is facilitated.

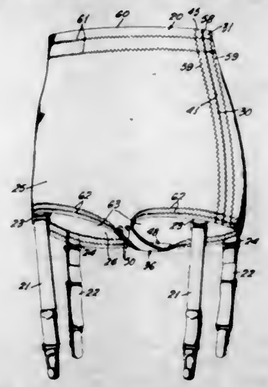
2,591,422
LIQUID FUEL AND OXIDIZER JACKETED COMBUSTION CHAMBER WITH AXIAL CONICAL FUEL SPREADER
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Original application June 28, 1946, Serial No. 680,228. Divided and this application December 6, 1949, Serial No. 131,462
1 Claim. (Cl. 60—39.46)



A combustion chamber for high energy fuel comprising a chamber portion of segmental spherical shape in which initial combustion takes place, an elongated conical chamber extension of progressively decreasing cross-section in which further combustion takes place, said chamber having a circular fuel feed opening and a concentric conical spreader at the axis of the inner spherical end wall and providing an annular slot about said spreader for a fuel spray directed substantially tangentially of said spherical portion and toward the outlet of said chamber, and said chamber having an annular series of spaced openings in said spherical portion providing an intersecting spray of a liquid oxidizer, which latter spray is directed toward the axis at said inner end portion of said chamber and substantially in the opposite direction from said fuel spray, and jacket means effective to cool said chamber and to supply liquid fuel and a liquid oxidizer to said fuel feed opening and to said spaced oxidizer openings respectively.

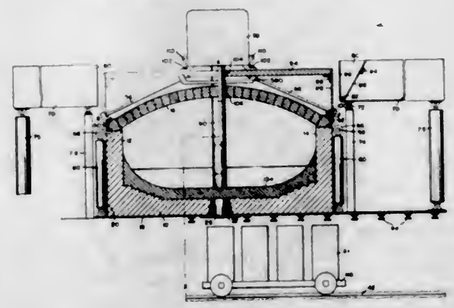
2,591,423
PANTY GIRDLE CONSTRUCTION
Beatrice Grolitzer, Los Angeles, Calif.
Application January 31, 1949, Serial No. 73,794
4 Claims. (Cl. 2—43)

1. A girdle comprising a front panel, a back panel, and a crotch portion joined with and extending between the bottom edges of said panels, said panels being formed of inelastic elements extending vertically and elastic elements extending horizontally, the crotch portion being formed of inelastic elements extending from front to back and elastic elements extending continuously transversely thereacross, whereby inelastic ele-



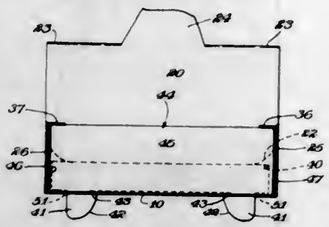
ments extend substantially continuously in a vertical, medial, front-to-back plane from the upper edge of the front panel to the upper edge of the back panel and through the crotch portion, and elastic elements extend substantially continuously and horizontally around the girdle.

2,591,424
FURNACE CHARGING DEVICE
Fredrick W. Gumpp, Massillon, Ohio, assignor of twenty-five per cent to J. Warren Kinney, Jr., Cincinnati, Ohio
Application September 2, 1948, Serial No. 47,468
2 Claims. (Cl. 214—18)



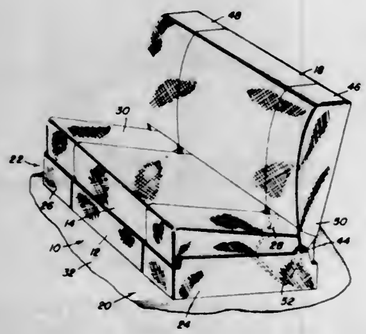
2. A top-charging open hearth furnace including front, rear and side walls, a removable roof spanning the upper portions of said walls for controlling access to the interior of said furnace, means to elevate said roof for uncovering the upper edges of said front and rear walls, scrap platforms located adjacent and extending along substantially the entire length of the upper edges of said front and rear walls, a side panel hingedly secured along that side of each platform adjacent the furnace movable between elevated scrap confining position and a lowered position extending over the upper edge of an adjacent furnace wall, said panel dimensioned to span the space between its associated platform and the interior of the furnace inwardly of said adjacent furnace wall, and means for tilting said platforms relative to the upper edges of said front and rear walls for discharging the contents of said platforms into the interior of the furnace over the upper edges of said front and rear walls.

2,591,425
TILTABLE DISPLAY CARTON
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application May 19, 1948, Serial No. 27,842
5 Claims. (Cl. 206—45.27)



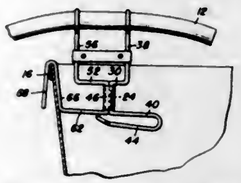
1. A display carton including a bottom wall and encircling side wall panels, one of said panels comprising two thicknesses of paper board, a leg forming element interposed between said two thicknesses of said one wall and having spaced projections on one edge thereof and openings in said bottom wall of said carton beneath said spaced projections through which said projections may be forced, and slot means in said projections engageable with the opening edges to lock the projections in projected position.

2,591,426
DIVIDED CAR SEAT
Earl D. Hadley, Edwardsville, Kans.
Application October 25, 1949, Serial No. 123,499
3 Claims. (Cl. 155—5)



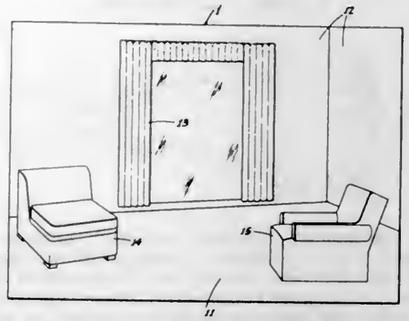
2. A divided car seat comprising a central seat member secured to the floorboard of a car, a pair of end seat members disposed on either side of the central seat member, each of said end seat members being provided with a longitudinally extending rod secured to its front and back portions, said rod being slidably inserted in a retainer secured to a floorboard of a car, a pair of upright members secured to said floor board below each of said end seat members, a back rest pivotally secured to each of said end seat members having a lug attached thereto, said lug being rotatable with said back rest and selectively abutting one of said pair of upright members to cause said seat portion to selectively slide longitudinally of an initial position upon rotation of said back rest.

2,591,427
HOSE ATTACHMENT
Harold Harkey, Kirksville, Mo.
Application February 10, 1948, Serial No. 7,379
2 Claims. (Cl. 248—79)



1. A holder comprising a pair of adjacent main body members, a pair of laterally extending and upwardly projecting arms secured to said main body members, and support engaging means depending from said main body members, said depending means including an upwardly extending first clip as well as a laterally extending second clip, said clips being disposed perpendicular to each other.

2,591,428
SELECTIVE COLOR DISPLAY PROJECTION APPARATUS
McLean H. Harris and Raymond E. McKee, Stockton, Calif.
Application January 20, 1950, Serial No. 139,764
1 Claim. (Cl. 88—24)

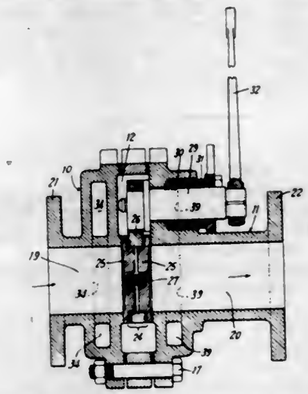


Color display apparatus comprising a screen, the screen having thereon a plurality of initially uncolored representations of elements of an ensemble, a film corresponding to each represented element of the ensemble, each film including a plurality of frames and each frame having a colored area shaped for matching projection onto the related element of the ensemble, the colored areas of the frames of each film being of varied colors, and a projector for each film adapted to project any selected frame of such film onto the screen with its color area matching said related element; said frames being opaque except for said colored areas thereof.

2,591,429
VALVE
William Harrower, Jersey City, N. J., assignor to Everlasting Valve Company, Jersey City, N. J., a corporation of New Jersey
Application September 24, 1947, Serial No. 775,846
2 Claims. (Cl. 251—18)

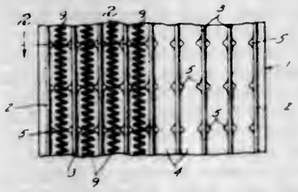
1. A valve comprising a valve body having aligned inlet and outlet ports and a valve chamber therebetween with opposite parallel generally flat sides, the flat sides of said valve chamber being formed by a pair of valve bonnets, a valve

operating shaft passing through one of said bonnets beside the valve port thereof, a valve member secured to said operating shaft for oscillatory movement within said valve chamber between open position to one side of said valve ports and closed position between said valve ports, each of said bonnets having a jacket space incorporated therein and the jacket spaces having inlet and outlet ports, the jacket space of the



bonnet mounting said valve operating shaft extending beside said valve chamber and around the valve port therein except in the area of the bonnet adjacent the valve-operating shaft, and the jacket space of said other bonnet extending entirely around the valve port therein and beside said valve chamber, and an exterior conduit connecting the jacket spaces of the two bonnets for fluid flow from the jacket space of one bonnet to the jacket space of the other bonnet.

2,591,430
TIRE RETREADING MOLD
Earle W. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota
Application May 8, 1950, Serial No. 160,692
3 Claims. (Cl. 18—18)



1. A tire retreading mold including a plurality of pairs of substantially parallel circumferentially-extended ribs defining between each cooperating pair a radially inwardly-opening endless rider strip-forming channel, each of said ribs being provided with a plurality of circumferentially-spaced wire coil-centering teeth which project laterally thereof into said channels.

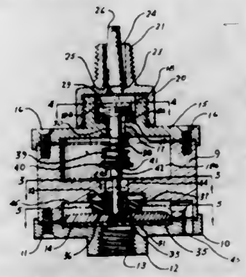
2,591,431
HYDRAULIC HAYFORK
Wilfred A. Henggeler, Columbus, Nebr.
Application February 11, 1949, Serial No. 75,940
3 Claims. (Cl. 294—88)

1. In a hay gripping fork the combination which comprises a horizontally disposed rectangular-shaped frame having side and end members, a transversely disposed horizontally positioned base plate positioned below the intermediate part of the frame, rods suspending the said base plate from the frame, a vertically disposed cylinder mounted on said base plate and extended upwardly through said frame, said cylinder having a piston therein and having a piston rod extended from the upper end thereof, a cross bar carried by the upper end of said piston rod, outwardly diverging tines having downwardly disposed arcuate hay gripping ends piv-



otally mounted on the end members of the said frame, links connecting the inner ends of the tines to extended ends of the said cross bar whereby upward travel of the cross bar by the piston in the cylinder forces the lower arcuate ends of the tines inwardly, upwardly converging supporting rods extended from the ends of the end members of the frame, and a link connecting and extended from the upper ends of the said supporting rods.

2,591,432
DRAIN
Eric Hoerner, Dayton, Ohio
Application August 15, 1949, Serial No. 110,377
9 Claims. (Cl. 230—1)

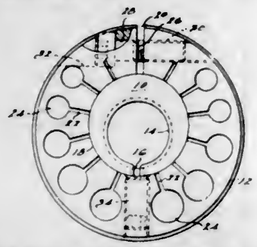


1. In a drain in combination with a tank having a compressor and an unloader mechanism thereon, and a connection between the unloader mechanism and the tank, said connection including a housing having a chamber connected to the tank, a second chamber having an exhaust outlet and pressure operated means operated by the unloader mechanism to regulate the passage of water from the first named chamber to the exhaust outlet.

2,591,433
ADJUSTABLE THREAD RING GAUGE
George Hohwart and Ernest F. Hohwart, Detroit, Mich., assignors to N. A. Woodworth Company, Ferndale, Mich., a corporation of Michigan
Application March 11, 1946, Serial No. 653,571
19 Claims. (Cl. 33—199)

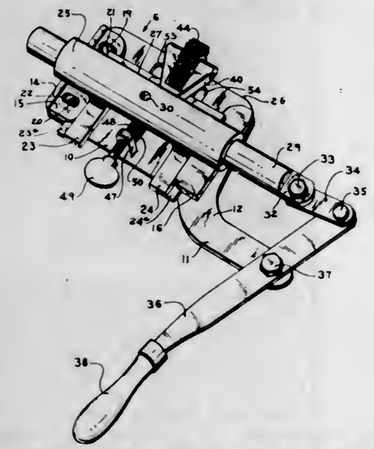
1. A device of the character described comprising an inner radially adjustable member having a generally cylindrical peripheral surface, an eccentrically positioned opening therein, and a radial through slot at substantially the thinnest portion thereof; and an outer adjusting member having an eccentrically positioned opening which snugly fits the periphery of said inner member and a radial through slot at the thinnest por-

tion thereof, the centers of said eccentric openings being spaced apart and disposed on a line joining said through slots.



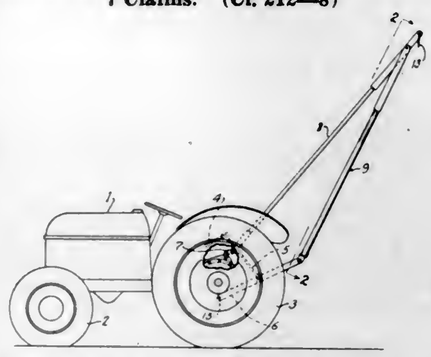
16. A thread ring gage comprising an internally threaded annular gaging member, having spaced ends which define an adjusting slot, a body around said gaging member adapted to apply a radially contracting force against the same, a pressure element carried by said body positioned to engage and adjustable radially relative to the ends of said gaging member, and cam surfaces on the ends of the gaging member engageable with said pressure element upon contraction of said gaging member by said body to flex said ends axially in opposite directions to compensate for axial offset produced in the threads as a result of such contraction.

2,591,434
DRESSING DEVICE FOR GRINDING WHEELS
Michael Hrankowski, Plainfield, N. J.
Application July 14, 1948, Serial No. 38,610
1 Claim. (Cl. 125—11)



In a device for dressing a grinding wheel having an elongated base to be mounted adjacent the grinding wheel with its length extended at right angles to the grinding wheel to be dressed and having a slide mounted thereon for movement toward and away from the wheel, an elongated barrel fixedly mounted on the slide parallel to the elongation of the base and formed with an elongated slot in its side, a cylindrical member slidably extended through said barrel and formed intermediate of its ends with a recess aligned with said slot, means connected between the base and said cylindrical member for manually sliding said cylindrical member axially in one direction and then in the other direction relative to said barrel, a dressing tool having an inner end portion passed slidably through said slot and into said recess so that dressing tool will move with said cylindrical member, a set screw threaded through said cylindrical member and abutting the inner end portion of said dressing tool retaining it in position on said cylindrical member, a post extended from the base on the side of said cylindrical member opposite the side from which said dressing tool extends, an adjustment screw threaded through said post and abutting said cylindrical member to be turned relative to said post for moving the slide and said cylindrical member away from the post, and a contraction spring connected between said post and said slide in a direction in which said cylindrical member is abutted against said adjustment screw.

2,591,435
TRACTOR HOIST
Harold James Hunsaker, Dallas, Tex., and Dan Crawford McCullough, Dearborn, Mich., assignors to Harry Ferguson, Inc., Dearborn, Mich., a corporation of Delaware
Application February 23, 1945, Serial No. 579,400
7 Claims. (Cl. 212—8)

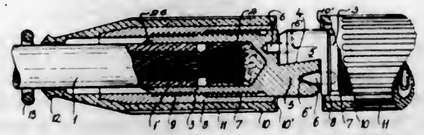


6. In a hoist attachment for a tractor having power elevated draft links trailingly pivoted on its rear end portion and having a pivot connection arranged on its rear end portion above said links, the combination comprising a substantially rigid rod member including means at its inner end for detachable pivoting to said pivot connection, load supporting means at the outer end of said rigid rod member, means providing a pivot support intermediate the ends of said rod member, and a member pivotally joining said pivot support and the trailing ends of said draft links for supporting said rod member in an upwardly and rearwardly extended position on said tractor, said second named member and the draft links having a combined length greater than the pivot-to-pivot length of said rod member to produce progressive rotation of said rod member about the point of pivoting attachment to the tractor over the entire range of upward swinging movement of said power elevated draft links.

2,591,436
PROCESS FOR THE PRODUCTION OF ALUMINA VALUES
William Addison James, Arvida, Quebec, Canada, assignor to Aluminium Laboratories Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application March 10, 1947, Serial No. 733,730. In Canada March 21, 1946
7 Claims. (Cl. 23—52)

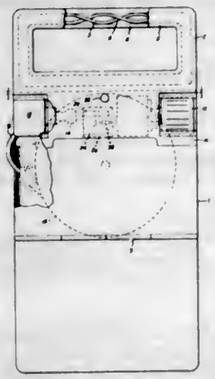
1. In a process of separating alumina values from bauxite by digestion with caustic liquor, wherein the bauxite contains more than 0.6% by weight of phosphorus pentoxide which is capable of contaminating the liquor, the method of impeding solution of phosphorus in said liquor which comprises introducing calcium carbonate as such into the liquor and effecting said digestion in the presence of said calcium carbonate.

2,591,437
COUPLING DEVICE FOR ELECTRIC CABLES
Erik Haugsrud Jun, Bagn, Norway
Application February 27, 1947, Serial No. 731,259
In Norway December 21, 1946
5 Claims. (Cl. 173—363)



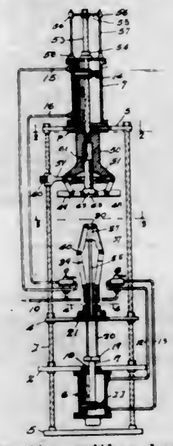
1. A cable connector comprising an elongated metallic terminal constructed to receive a cable at the rear end thereof and having a front contact portion shaped for axially interlocking engagement with an inverted similar contact portion, said terminal being provided with an external screw thread at the circumferential surface thereof, and a sleeve provided with an internal screw thread for engagement with said external screw thread and screwable along said terminal between a first position sufficiently far behind the front end of said terminal to allow the contact portion thereof to enter into engagement with an inverted similar contact portion and a second position in which the front end of said sleeve extends beyond the front end of said contact portion.

2,591,438
PORTABLE RADIO RECEIVER
Thomas H. Kinman, Robert G. Hibberd, and Cyril Hayward, Rugby, England, assignors to General Electric Company, a corporation of New York
Application April 13, 1948, Serial No. 20,746
In Great Britain April 24, 1947
2 Claims. (Cl. 250—14)



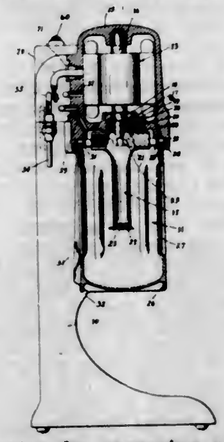
1. In a portable radio receiver comprising radio-chassis and sound-reproducing elements, a casing constructed and arranged to enclose and support said elements, a carrying handle of insulating material having a generally U-shaped portion adapted to be grasped by the hand and a transverse base portion bridging said U-shaped portion, means securing said base portion rigidly to said casing, means defining a circumferentially-complete channel through said portions, a loop antenna located within said channel, and electrical connections between said antenna and said chassis.

2,591,439
SHEET-METAL RECEPTACLE FORMING MACHINE
Roderic M. Koch, Evansville, Ind.
Application June 23, 1948, Serial No. 34,707
5 Claims. (Cl. 153—2)



1. The combination with a hollow reciprocable bender forming a vented fluid pressure chamber and having an enlarged head and multiple circumferentially spaced links pivotally suspended therefrom, of a central die having an enlarged head and reciprocable in the hollow pressure chamber of the bender, a pivot ring mounted in a groove of the die head, a die plate having a clamp groove engaging the ring and means for attaching the plate to the die head, said die head and die plate forming an annular series of slots, multiple arms pivoted on the ring in said slots, and pivotal connections between the links and the blades.

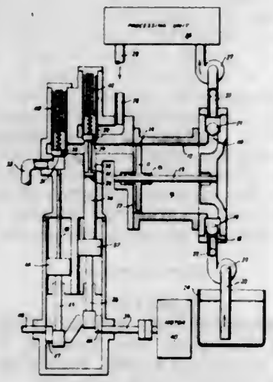
2,591,440
CARBONATING APPARATUS
Paul Kollsman, New York, N. Y.
Application December 8, 1945, Serial No. 633,883
7 Claims. (Cl. 261—93)



1. An apparatus for preparing a highly carbonated beverage ready for consumption in a

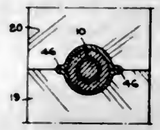
highly carbonated state comprising, a stationary support including a fixed head having an undersurface and a passage through said head leading to said undersurface, said passage being connectible to a source of carbon dioxide under pressure, the head being devoid of a liquid passage therethrough; a dispensing vessel adapted to hold a charge of liquid to be carbonated, said vessel being pressure tightly attachable to, and removable from, the undersurface of said head and forming a pressure tight stationary chamber with said head for confining the charge of liquid in said chamber; valve means in said support in the carbon dioxide passage for admitting carbon dioxide into said chamber; power driven means in said head and extending below said undersurface into said vessel for mechanically agitating in said vessel the liquid contents of said vessel while under pressure; and means for relieving pressure from said chamber to permit removal of said vessel from said head for dispensing of said charge at atmospheric pressure in a substantially quiescent state.

2,591,441
PRESSURE ENERGY EXCHANGER
Paul Kollsman, New York, N. Y.
Application February 10, 1949, Serial No. 75,610
6 Claims. (Cl. 103—52)



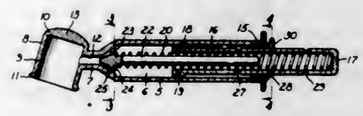
1. A device for the recovery of pressure energy of fluids processed under high pressure in a processing system, the device comprising, an intake chamber having an intake port, and an outlet port leading to said system; intake valve means controlling said intake port; outlet valve means controlling said outlet port; an outlet chamber having an inlet port for admission of fluid from said system, and a discharge port; an inlet valve member controlling said inlet port; a discharge valve member controlling said discharge port; pressure equalizing means between said two chambers, including means for sealing fluid in one chamber with respect to fluid in the other chamber; means for periodically compressing and decompressing the fluid in one of said chambers; and means operable in timed relationship with said compressing and decompressing means for operating said inlet valve member and said discharge valve member.

2,591,442
METHOD OF MAKING ELECTRIC HEATING ELEMENTS
Cyril Lacy-Hulbert and Albert Victor Barton, Oldbury, England, assignors to Simplex Electric Company, Limited, Oldbury, England, a British company
Application February 9, 1946, Serial No. 646,633
In Great Britain November 6, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires November 6, 1964
4 Claims. (Cl. 29—155.55)



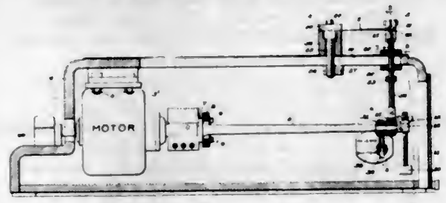
1. A method of making electric heating elements of the kind specified wherein a metal tube of circular section containing an axially disposed coil resistance element and filled with compacted electrically insulated heat conducting material in powder form is first temporarily sealed at each end by a plug which prevents endwise movement of the insulating powder but which allows the escape of air, and the tube is then subjected to pressure from two form tools acting on opposite sides of the tube, one of which moves towards the other in a direction at right angles to the axis of the tube, each form tool having a straight groove of part circular section and of smaller radius than that of the cross section of the tube, and a rebate at each side of the groove of a depth equal to the thickness of the metal of the tube, the tube being thus contracted in diameter so as to compact the insulating material further, the surplus metal of the tube on each side thereof being squeezed by the form tools into a longitudinal rib of U section with the two sides of the rib in contact, said rib being formed in the rebate, the pressing operations being confined to that part of the tube between the inner ends of the plugs at the ends of the tube, so that pressure is not applied to the plugged parts of the tube, said plug being removed after the pressing operation and the end of the tube permanently sealed by inserting in the tube a sealing in insulating washer which is fused to the interior of the tube.

2,591,443
DEVICE FOR DETERMINING CAPILLARY FRAGILITY
Glen M. Larson and Howard B. Lewis, Los Angeles, Calif.
Application December 15, 1947, Serial No. 791,822
8 Claims. (Cl. 128—2)



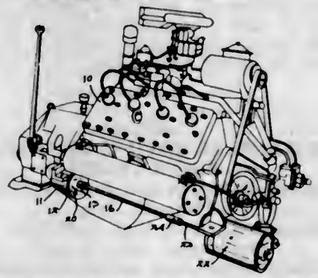
1. A device for determining capillary fragility, comprising: a cylinder member having a cup-shaped portion at one end thereof provided with a rim adapted to be placed against the skin of a person, the axis of said portion being disposed at an angle to the axis of said cylinder member, the interior of said portion being in fluid communication with the interior of said cylinder member; a tubular plunger slidable in said cylinder member and having a closed end projecting from the opposite end of said cylinder member, said plunger being adapted to expel air from said cylinder member and cup portion when slid in a first direction toward said cup portion; spring means engageable with said plunger and adapted to slide the same in the opposite direction so as to create a predetermined reduced pressure within said cylinder member and cup portion tending to draw the skin into said cup portion; and readily detachable stop means adjustable longitudinally on said plunger and adapted to engage said opposite end of said cylinder so as to limit the sliding movement of said plunger in said first direction to selected position.

2,591,444
FATIGUE TESTING MACHINE
Benjamin J. Lazan, Syracuse, N. Y., assignor, by mesne assignments, to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application October 22, 1946, Serial No. 704,814
6 Claims. (Cl. 73—91)



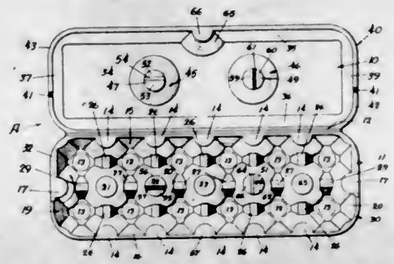
1. A fatigue testing machine comprising, in combination, a flexible drive shaft rotatable at a constant speed and having eccentric means mounted thereon for rotation therewith to produce a centrifugal force and flexing said shaft, means for rigidly supporting one end of the shaft so that the axis of said end remains in a single stationary position at all times, means for rotating said shaft, means for operatively connecting a specimen to the flexing zone of said shaft at a fixed point remote from said rigidly supported end so that the centrifugal force is applied to the specimen upon flexure of the shaft, means for guiding said remote portion of the shaft so that said force produces substantially only a reciprocating movement thereof, and said shaft having a spring constant such as to compensate for the inertia forces of all reciprocating masses connected to the shaft, thereby to produce a load force in the specimen equal only to that of the centrifugal force.

2,591,445
STARTER FOR INTERNAL-COMBUSTION ENGINES
Roger Lehman, Orange, N. J.
Application April 14, 1948, Serial No. 21,027
3 Claims. (Cl. 74—7)



1. In combination, an internal combustion engine having a starter drive casing for a starter drive, said casing having a circular opening at said drive, a starter motor disposed at the other end of said engine from said casing in line with said opening, a bracket supporting said motor from said engine, said motor having an armature shaft extending toward said opening, an armature extension extending from said armature shaft to said opening for connection with said starter drive, a coupling connecting said shaft and extension, and a centralizer bolted to said casing over said opening and having a central bearing receiving said extension, said engine being mounted at an inclination and said casing and said motor being disposed at an angle parallel to the inclination of said engine with said casing disposed lower than said motor, said centralizer having a centralizing boss extending into said opening, said motor support bracket having an annulus bolted over the open face of the housing of said starter motor directed toward said starter drive casing, said annulus having a rectangular flange bolted to said engine.

2,591,446
EGG CARTON
James Warren Lennon, St. Paul, Minn., assignor, by mesne assignments, to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application December 12, 1947, Serial No. 791,367
4 Claims. (Cl. 229—2.5)

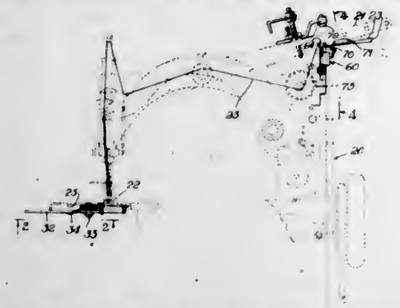


1. An egg carton including a pair of substantially pan shaped sections hingedly connected together along a fold line, one of said sections having a series of spaced egg receiving recesses therein, spacing posts between certain of said recesses, the other of said sections comprising a cover section and including a top panel and encircling side walls thereupon, said side walls resting upon said first named section in closed position of the carton, and a downwardly extending post on said top panel extending into abutting relation with one of said posts of said first named section, and cooperable shoulder means carried by said abutting posts and holding said two sections from lateral movement in one direction at points spaced from the side walls of said sections.

2,591,447
SEWING-MACHINE THREAD CUTTER
Fred H. Loomis, Woodhaven, N. Y.
Application June 3, 1950, Serial No. 165,952
5 Claims. (Cl. 112—252)

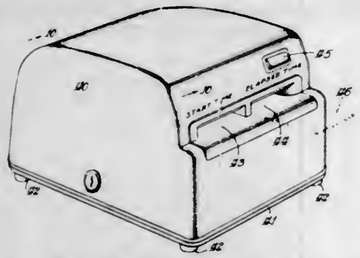
1. In combination, a chain stitch sewing machine, a thread cutter mounted under the work-supporting plate of said sewing machine for severing the loops of thread formed by said sewing machine in the normal course of its stitching operations, a thread clamping member mounted on said sewing machine for clamping the thread during the thread cutting operation, and a thread

measuring and feeding member mounted on said sewing machine and engaging the thread be-



tween the thread clamping member and the thread cutter.

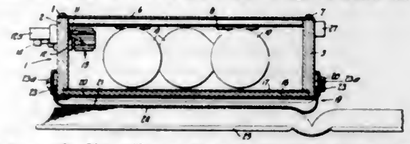
2,591,448
ELAPSED TIME RECORDER
Richard L. Lorenz, Chicago, Ill., assignor to General Time Corporation, New York, N. Y., a corporation of Delaware
Application September 2, 1947, Serial No. 771,767
18 Claims. (Cl. 235—61.8)



1. A time recorder comprising a set of type wheels, means for guiding a card into cooperative position adjacent said type wheels, means displaced by said card when in said cooperative position, a motor, a motor circuit therefor, a control member for said motor circuit movable between a closed circuit position and an open circuit position, latch means for said control member for maintaining said control member in said open circuit position, said latch means being actuated by the displacement of said displaceable means to release said control member to permit said control member to move into closed circuit position, a rotatable element adapted to be driven by said motor, means for establishing a driving connection between said motor and said rotatable element for a single revolution of said rotatable element, impression means actuated by said rotatable element and cooperating with said type wheels and said card when the latter is in said cooperative position to record the angular position of said type wheels on said card, and means actuated by the release of said control member for actuating said connection establishing means.

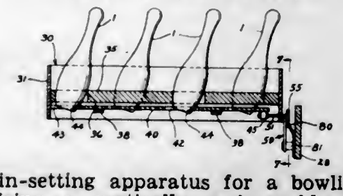
2,591,449
CONTACT PRINTING APPARATUS
Frederic G. Ludwig, New Haven, Conn.
Application November 2, 1948, Serial No. 57,849
5 Claims. (Cl. 95—76)

1. A light, portable contact printer adapted to print from books comprising, in combination, a casing having greater width and length than thickness and adapted to be placed flatwise upon the object, light bulbs in the casing for illuminating the object but having the deficiency that the light distribution is of varying intensity, and a translucent compensating screen interposed between the light bulbs and the object side of the



casing and directly exposed to the light bulbs, said screen being varied in its light transmitting property substantially inversely with the intensity of the light incident upon it, so that light of more nearly uniform intensity will be transmitted to all illuminated portions of the object.

2,591,450
APPARATUS FOR SETTING PINS
Henry C. Luebbert, Cleveland, Ohio
Application May 20, 1947, Serial No. 749,136
7 Claims. (Cl. 273—42)

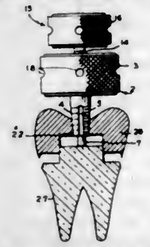


1. Pin-setting apparatus for a bowling alley comprising a vertically reciprocable carriage comprising a generally horizontally disposed guide member having a plurality of openings therethrough each adapted to guide a bowling pin therethrough; a slide member slidably mounted below said guide member in said carriage and having pin-supporting portions, each of which, when said slide member is at one end of its travel in pin-supporting position, partially obstructs one of said guide openings and cooperates with said opening to support a bowling pin by its upwardly swelling lower slide portion in wedging relation tending to force said slide member away from its partially-obstructing, pin-supporting position, and when said slide member is at the other end of its travel in pin-releasing position, leaves said guide opening unobstructed; means for supporting said carriage so that it may be raised to an upper position where it leaves the space below it unobstructed for bowling purposes, and lowered to a lower position where it sets pins carried thereby; means for sliding said slide member to pin-supporting position and locking it in said position as said carriage moves upward toward its upper position; and means for unlocking said slide member as it approaches its lower position, whereby the wedging action of pins supported in wedging relation in said guide openings moves said slide member to pin-releasing position and permits said pins to be set in position.

2,591,451
DEVICE FOR REMOVING RESTORATIONS FROM TEETH
Harold F. Lynch and James F. Smith, Phoenix, Ariz.
Application April 28, 1951, Serial No. 223,568
3 Claims. (Cl. 32—43)

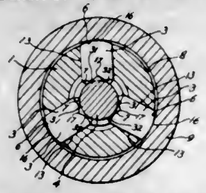
1. A tooth restoration remover composed of an attaching element body composed of a head and a depending self tapping screw having an axial

bore there thru enlarged and tapped at the end portion within said body, and a removing element, including a pressure pin retained within said bore so that its lower end extends from the lower end of said self tapping screw, and a screw



having a head with a threaded depending shank adapted to screw into the threaded portion of the axial bore in said body head and force said pressure pin downward so that its lower end is forcibly extended from the lower end of said self tapping screw.

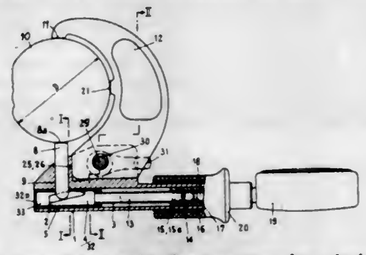
2,591,452
INTERNAL DIMENSION GAUGE
Max Maag, Zurich, Switzerland
Application November 21, 1945, Serial No. 629,930
In Switzerland November 13, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires November 13, 1964
5 Claims. (Cl. 33—178)



2. An internal adjustable bore gauge comprising in combination, a casing having an opening therethrough, a slidable member within the casing having a forward conical end and pins of circular cross-section radially disposed and movable, rotatably in said casing, said pins adapted to engage the bore being gauged at their outer ends and to engage the conical end of said slidable member at their inner ends, said inner ends being provided each with a V-shaped groove the two faces of which contact said conical member along two lines, the line of intersection of the two faces passing through a point in the axis of the conical member.

2,591,453
EXTERNAL CALIPER WITH DEMOUNTABLE FRAME
Max Maag, Zurich, Switzerland
Application May 7, 1947, Serial No. 746,510
In Switzerland May 2, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires May 2, 1966
4 Claims. (Cl. 33—147)

1. A device for measuring external dimensions, comprising in combination, a hollow tubular casing having an angular recess formed in one side thereof, a dial indicator connected to said casing at one end thereof, an axially movable member within said casing, said member engaging the spindle of said dial indicator at one end and having a tapered portion at its opposite end, a work engaging member extending from within said casing and engaging said tapered portion, and a frame member fitting said angular recess in the casing and detachably attached to said casing and having a fixed work engaging anvil positioned in opposed relation to said work en-



gaging member, said frame member being retained in position by operation of an eccentric shaft.

2,591,454
VENTILATED FOOTWEAR
Ruben T. Manning, Maury City, Tenn.
Application March 14, 1951, Serial No. 215,464
1 Claim. (Cl. 36—3)

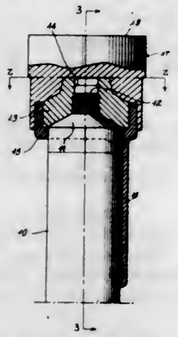


A ventilated boot or like article of manufacture including a leg portion and a foot portion, said boot having at least one hollow vein provided on the outer wall thereof and extending down one side of the leg and along the foot and transversely over the top of the foot and along the other side of the foot and up the other side of the boot leg, the upper ends of said vein being open and being positioned near the rim of the boot, the wall of the boot throughout that portion thereof thus covered by said vein having spaced openings therethrough thereby providing air communication between the vein and the inside of the boot, said boot having a tubular flexible extension, the lower edge of said extension being secured and sealed against the outside of said leg on a level below said open upper ends of said vein, said extension having a length substantially greater than the vertical distance between the rim of the boot and said level of securement, said extension when folded down the outside of the leg below said level exposing said open upper ends of the vein to the air.

2,591,455
SUPPORTING AND CONTENT DISPENSING ATTACHMENT FOR COLLAPSIBLE TUBES
Donald E. Marshall, Summit, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application March 30, 1944, Serial No. 528,723
4 Claims. (Cl. 222—424.5)

1. In combination, a supporting and material dispensing control attachment for a collapsible

tube of the type having an end wall and a projecting discharge nozzle in said end wall comprising a spout member and a sealing cap member frictionally mounted on said spout member, means for securing said spout member upon said tube nozzle, means in said spout member providing a discharge passage through said spout member as an effective continuation of said nozzle, means providing a recess in the surface of one of said members in registry with said passage and of



appreciably larger cross sectional area than said passage, said recess being closed by the other of said members so as to provide a reservoir for material squeezed out of said tube, mating conical surfaces on said spout and said cap member terminating in shoulders which are mutually engageable when the cap member is tight on the spout member to positively predetermine the size of said recess, and said reservoir of material being available to a brush or the fingers of a user when the cap member is removed.

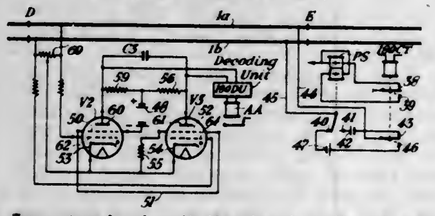
2,591,456

RAILWAY TRACK CIRCUITS

Paul N. Martin, Penn Township, Allegheny County, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

Original application July 18, 1944, Serial No. 545,519. Divided and this application April 30, 1946, Serial No. 665,944

3 Claims. (Cl. 246—34)



1. In a track circuit the track rails of which are supplied with code impulses of direct current alternate in polarity, a track relay means comprising; a first and a second gas tube each of which has an anode, a cathode, a control grid and a shield grid; each said tube having two terminals which are connected one to each end of the shield grid of the same tube to include the shield grid in series with its two terminals, a combined shield grid and anode circuit for each of said tubes and each of which circuits includes in series, a battery, the anode to cathode tube space of the respective tube, a bias resistor and the two shield grids; said bias resistor and shield grids being common to the two shield grid-anode circuits, each said shield grid circuit being disposed to provide a preselected shield grid bias voltage for the tube due to the voltage drop across said resistor, said battery of a voltage to fire the tubes but normally ineffective due to said bias voltage of the shield grid of each tube and which bias voltages are checked by said series connections of the shield grids and their terminals in the shield grid-anode circuits, circuit means connected across the control grid and cathodes of said first and second tubes, said circuit means including a resistor which is connected across said track circuit to receive said current impulses and which resistor is provided with terminals that are connected to said control grids and cathodes and poled to drive the control grid of said first tube positive in response to current impulses of one polarity when they are applied to said circuit means and to drive the control grid of the second tube positive in response to current impulses of the other polarity when they are applied to said circuit means, means including a condenser connected across the anodes of said tubes and two other resistors one interposed in each of said shield grid-anode circuits to deionize the tubes whereby said tubes are alternately fired in response to current impulses of alternate polarity applied to said circuit means, and means connected to said shield grid-anode circuits of said tubes energized in response to such alternate firing of the tubes.

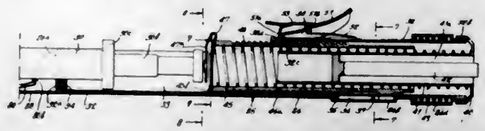
2,591,457

SYRINGE OPERATING DEVICE

Hyla F. Maynes, Miami, Fla., assignor of one-half to Emma C. Maynes, Miami, Fla.; Emma C. Maynes, executrix of said Hyla F. Maynes, deceased

Application September 15, 1948, Serial No. 49,353

28 Claims. (Cl. 128—218)



1. A device for operating hypodermic syringes having a syringe cylinder, a needle projecting from the front end of the cylinder, and a plunger extending from the rear end of the cylinder, the device comprising a holder for the syringe, an actuator movably supported by the holder and urged forward relative thereto for advancing the syringe bodily relative to the holder to project the needle, said holder including a needle withdrawing member movably supported by the holder and urged rearward relative thereto for retracting the syringe bodily relative to the holder, a releasable catch on the holder for latching the actuator in a retracted position relative to the holder, and a second releasable catch on the holder for latching the withdrawing member in an advanced position relative to the holder.

2,591,458

PILOT BURNER AND FLAME RETAINING MEANS

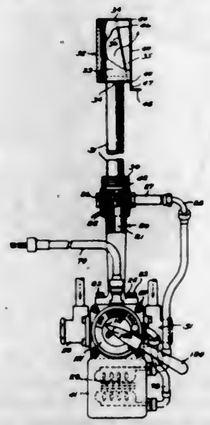
Le Roy A. McGuire, Leonardo, N. J., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York

Application February 16, 1949, Serial No. 76,770

2 Claims. (Cl. 158—115)

1. A gas igniter for use in a stream of combustion air, comprising an igniter tube for carrying a combustible gas and having a tip at its exit end to be positioned in the path of said combustion air, said tip comprising a U-shaped housing having flared side wall having end walls

and a front plate spaced inwardly from the outer ends of said side walls and forming therewith a chamber having a U-shaped transverse section, one of said end walls having a gas supply opening registering with said igniter tube with said side wall extending beyond the exit end of said tube parallel to the axis thereof, said front plate having a gas discharge opening therein



through which the gas flows for combustion, said front plate being inclined in a plane intersecting the axis of said tube beyond said tip whereby the gas stream from said plate opening is directed laterally relative to the igniter tube, said side and end walls extending laterally above said front plate and thereby forming a flange thereabout to shield the igniter flame from the surrounding air stream.

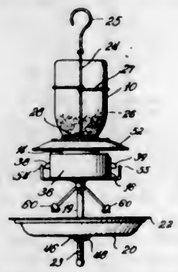
2,591,459

BIRD FEEDER

Robert E. Meany, Chicago, Ill.

Application September 22, 1949, Serial No. 117,171

7 Claims. (Cl. 119—51)



1. A bird feeder comprising, in combination, a feed container having an open end and a threaded neck portion at the open end, a base structure including a dish-type feed retaining trough having a feeding opening in a side portion thereof, an apertured cap secured in spaced relationship to the mid-portion of the interior of the trough and threaded to receive the neck portion of the feed container so that feed gravitates through the open end of the container and apertured cap into the interior of the trough, and a pan secured below and in spaced relationship to the trough, said pan having a rim laterally outward of the trough which serves as a perch upon which a bird may sit while facing the feeding opening, and the shape and size of the pan and the spacing thereof from the feeding opening being such that said rim provides the only perch from which a bird may gain access to said feeding opening and such access is attained only when the rear portion of the bird projects beyond the pan.

2,591,460

PROCESS FOR PROVIDING MAGNETIC SHEET STEEL WITH AN INSULATIVE FILM

Weston Morrill, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application August 17, 1949, Serial No. 110,884

4 Claims. (Cl. 148—6.35)

1. The method of providing a decarburized silicon steel sheet material with an insulating oxide coating which comprises box annealing said material at a temperature above 800° C. in a reducing atmosphere with no spacing between adjacent laminations of the sheet material, cooling the material to a temperature of from about 500° to 600° C. and while holding the steel at this temperature replacing the reducing atmosphere with nitrogen and replacing the nitrogen with an oxygen atmosphere.

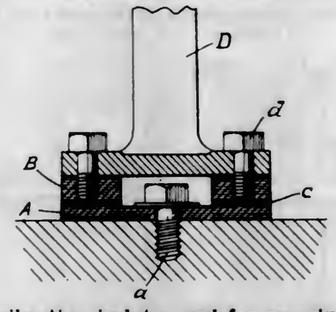
2,591,461

VIBRATION ISOLATOR

George J. Muller, Philadelphia, Pa., assignor, by mesne assignments, to Taylor Fibre Co., Norristown, Pa., a corporation of Delaware

Application December 11, 1945, Serial No. 634,162

2 Claims. (Cl. 248—22)



1. A vibration isolator pad for securing a machine to a floor, to prevent the transmission of vibrations to the floor from the machine or the transmission of vibrations from the floor to the machine, comprising upper and lower members formed of hardened resin impregnated fibrous material and an interposed resilient vibration insulator formed of elastic material cemented directly to said members, means for directly securing the lower member to the floor without affecting the resiliency of the insulator, and means for directly securing the upper member to a machine without affecting the resiliency of the insulator.

2,591,462

POSTURE-CORRECTIVE BRASSIÈRE

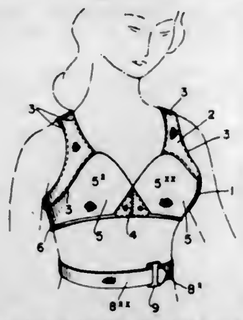
Thomas A. Mungo, Bronx, N. Y.

Application December 1, 1950, Serial No. 198,690

2 Claims. (Cl. 2—32)

1. A posture-corrective brassière comprising a pair of breast pockets for supporting and shaping the breasts of the wearer, a pair of shoulder straps each having a forward end secured to and extending from a respective one of said breast pockets, shoulder straps forming upper and side portions of the breast pockets and ex-

tending over the shoulders of the wearer, a back covering member formed as a continuation of the rearward ends of said shoulder straps and extending vertically downward therefrom to about the waistline of the garment, a pair of belt elements secured to the lower end of said back member and having adjustable means, said belt



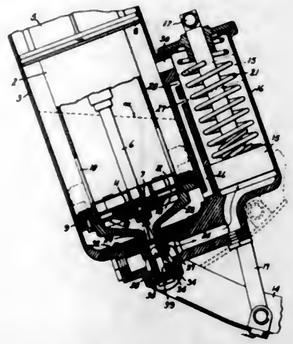
elements forming a belt adapted to extend around the waist of the wearer and at the front of the garment being spaced from said breast pockets, whereby tightening said belt causes a downward pull to be exerted on said back member and said rearward ends of the shoulder straps.

2,591,463
MAGNETIC TORQUE DEVICE
Rollin J. Parker, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 29, 1949, Serial No. 135,699
6 Claims. (Cl. 172—285)

1. An adjustable magnetic torque device comprising a ring of magnetizable material having at least a face portion formed of high energy permanent magnet material with a large hysteresis loss characteristic, a permanent bar magnet disposed diametrically across said ring and having polar ends spaced from said ring by an air gap, means mounting said ring and magnet for relative rotation while maintaining said air gap substantially constant, and a shunting bar formed of high permeability magnetizable material and disposed to be adjustably angularly positioned with respect to said permanent bar magnet.

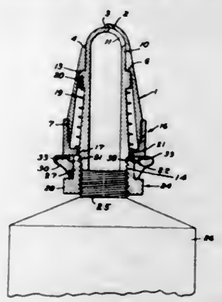
2,591,464
HYDRAULIC POWER UNIT FOR PRESSES AND THE LIKE
Robert J. Parsons, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application September 2, 1949, Serial No. 113,762
6 Claims. (Cl. 60—52)

1. In a fluid pressure power system, a work device to be operated by fluid pressure, a cylinder, valve means including an annular valve seat member confined within a wall of said cylinder for limited lateral movement therein, a conduit communicating between the downstream side of said valve seat and said work device, a combined piston and fluid pump in said cylinder, said pump having discharge means including a nozzle valve member for cooperation with said valve seat



member, means for establishing a home position in which said nozzle valve is seated within said seat member, and means for operating said pump to create fluid pressure for operation of said work device, said combined piston and pump being free to withdraw from said valve seat and expend said pump pressure against itself upon abnormal resistance of said work device to operation by said fluid pressure.

2,591,465
DISPENSING CAP HAVING CAM ACTUATED CLOSURE
Vladimir Popoff, San Francisco, Calif.
Application September 14, 1949, Serial No. 115,663
3 Claims. (Cl. 222—513)

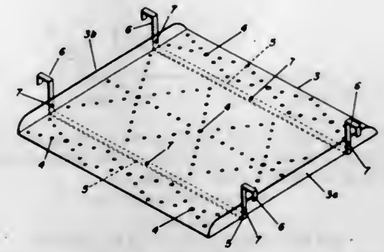


1. A dispensing cap for a paste container having a neck, said cap comprising a tube having an opening on the top thereof, a nut for fixedly attaching said tube to the neck of said container, a closure on said tube adapted to be rotated thereabout and having an opening in the top thereof registrable with the first mentioned opening; a spring, the upper end of which is connected to the tube and the lower end being operatively connected with the closure, said spring yieldably forcing said tube against said closure, said nut having a slot and a cam on the top surface thereof, said lower end of the spring being normally retained by the cam and adapted to be retained by the slot when the closure is rotated to affect the registry of the above mentioned openings, and means for releasing said lower end of the spring from said slot.

2,591,466
RESINOUS COMPOSITION COMPRISING ZEIN, RESINOUS PINEWOOD EXTRACT, AND LIQUID PHENOLIC RESIN
William W. Reynolds and Goldner F. Lipsey, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
No Drawing. Application April 28, 1950, Serial No. 158,934
4 Claims. (Cl. 260—7)

1. A coating and impregnating composition comprising, by weight, of (1) from 20 to 30 parts zein, (2) from 1.5 to 4 parts of the light petroleum hydrocarbon insoluble, aromatic hydrocarbon solvent soluble resinous extract of pinewood, (3) from 29 to 43 parts of a liquid phenolic resin composition containing from 68 to 72 per cent solids and obtained by heat reacting one mol of a phenolic reactant containing at least 70 per cent phenol with 1.35 to 1.5 mols formaldehyde in the presence of about 1 to 2 per cent, by weight, of sodium hydroxide, (4) 23 to 75 parts ethyl alcohol, and (5) up to 86 parts monoethyl ether of ethylene glycol, said composition drying to a tackless mass which softens at 90–100° C. and curing at a more elevated temperature to an insoluble and infusible mass resembling shellac in its fast drying, plastic and thermosetting characteristics.

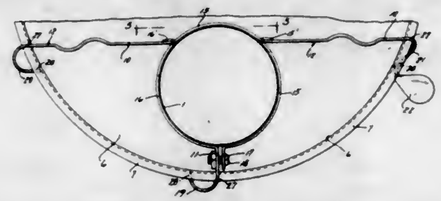
2,591,467
WET CLOTHES TRAY
Lloyd Rodefer, San Diego, Calif., assignor to Magdelena Rodefer
Application July 6, 1946, Serial No. 681,750
1 Claim. (Cl. 211—88)



In a device of the character described, the combination of a perforated sheet with open sides and turned-up ends forming a shallow tray, said tray being adapted to be introduced within the hollow of one of the compartments of a double laundry tub; metallic bars forming slings attached to the bottom and turned-up ends of said tray, and having hooks formed and positioned to make releasable attachment to the tops of the walls of said compartment adjacent to said turned-up ends.

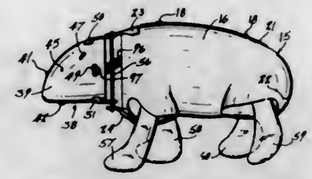
2,591,468
SUPPORT FOR CUP TYPE MOP WRINGERS
Bernard E. Rorem, Dayton, Ohio
Application September 25, 1946, Serial No. 699,101
2 Claims. (Cl. 248—110)

2. A device for anchoring wringer cups to rim-equipped mop pails, said device comprising an anchoring band adapted to receive a wringer cup and having three circumferentially-spaced anchoring arms projecting therefrom, said arms being of relatively thin flat band stock disposed with their narrow edges one above the other, the outer portions of the under edges of said arms providing upper pail bead seats, said arms being formed outwardly of said upper seats with anchoring hooks, the free end portions of the upper edges of which provide cooperating lower



pail bead seats disposed below the plane of the upper bead seats and laterally offset from their respective cooperating upper bead seats, the lower bead seats of two adjacent arms, being laterally offset from their respective cooperating bead seats each in the direction of the other said arm.

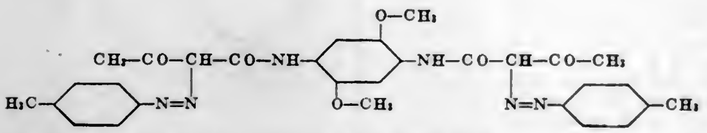
2,591,469
ANIMATED MECHANICAL TOY
Haruhiro Saito, Tokyo, Japan, assignor to I. B. Wolfset & Co., New York, N. Y., a firm
Application August 30, 1950, Serial No. 182,196
1 Claim. (Cl. 46—120)



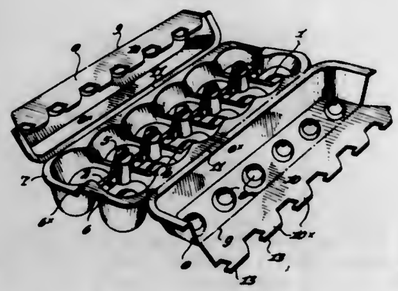
A walking toy simulating a four-legged animal, comprising a figure shaped to represent the body of said animal, individually movable fore legs and hind legs depending from said body and representative of the animal's legs, a motor driving a segmental gear, means for simultaneously oppositely moving each pair of hind legs and fore legs relative to a supporting surface on which the animal is placed thereby to cause the toy to walk by a tractive backward swing first of one fore leg and then of the other fore leg relative to said surface, a mounting means for each of said fore legs near its upper end, said mounting means in the case of each of said fore legs including a slot at the upper portion of said leg extended generally longitudinally thereof, a fixed pin engaging said slot, a crank arm revolubly connected to said upper leg portion at a point below the lower end of said slot, a crank shaft from which said crank arms are offset 180° one from another to cause one fore leg to move forward while the other moves rearward and vice versa, and a pinion on said crank shaft meshing with said segmental gear to cause said crank shaft to be turned during one part of the rotation of said segmental gear and to be nonrotative during the remaining portion of the rotation of said segmental gear to intermittently operate said legs to cause the animal to alternately walk and stand still.

2,591,470
AZO DYESTUFFS
Max Schmid, Riehen, Jakob Danuser, Arlesheim, Hans Johner and Eduard Moser, Basel, and Jakob Wuergler, Neuewelt, near Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application October 21, 1948, Serial No. 55,832. In Switzerland November 4, 1947
4 Claims. (Cl. 260—176)

4. The azo-dyestuff of the formula



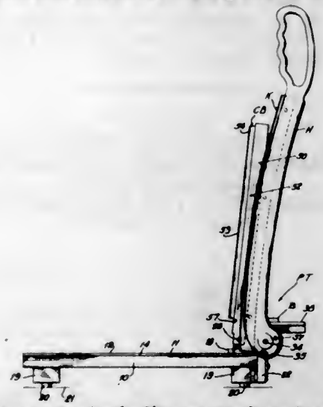
2,591,471
MOLDED PULP CONTAINER
Walter J. Schwertfeger, West Englewood, N. J., assignor to Keyes Fibre Company, Waterville, Maine, a corporation of Maine
Application September 16, 1950, Serial No. 185,265
4 Claims. (Cl. 229—2.5)



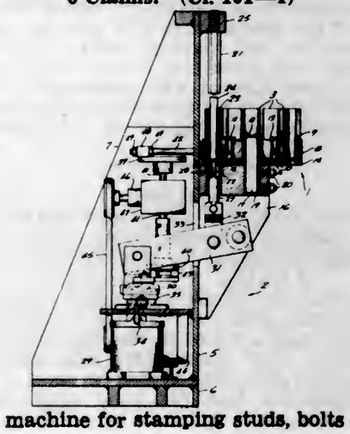
1. A molded pulp device adapted as a container for fragile articles comprising a body member formed with a plurality of rows of cups separated by division walls extending longitudinally and transversely of the body member, a row of spaced posts serving as jointure members for the longitudinal and transverse division walls, said posts each being formed with a recess in one side thereof facing the adjacent post of said row, the adjacent side of each said adjacent post having a cam groove therein, and opposed cover members hinged to opposite sides of the body member and each having a flap extension adapted to extend vertically above said posts when the cover members are closed, the outer edges of said flap extensions being provided with a series of projections adapted to project between the posts when the cover members are closed, each of said projections being provided with a detent adapted to enter a respective recess and engage therewith and a cam surface co-acting with a respective cam groove for moving the projection and detent toward said recess as the projections are moved downwardly between the posts during the closing of the cover members.

2,591,472
PAPER TRIMMER
Samuel Segal, New York, N. Y., assignor to Wilson-Jones Co., Chicago, Ill., a corporation of Massachusetts
Application February 1, 1947, Serial No. 725,873
11 Claims. (Cl. 164—45)

1. A sheet material cutter device comprising a table to support the sheet material to be cut, a cutter blade pivoted relative to said table, a swinging bar, means to actuate said bar automatically upon operation of said cutter blade to hold said sheet material during the cutting thereof, said means including a rack actuating said bar, and a pinion meshing with said rack and actuated by said cutter blade.

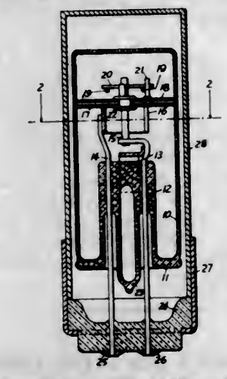


2,591,473
STUD STAMPING MACHINE
Stephen Straty, Milwaukee, Wis., assignor to Kilbourn Engineering Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 19, 1946, Serial No. 691,618
6 Claims. (Cl. 101—4)



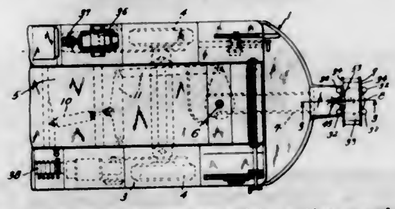
1. A machine for stamping studs, bolts and the like comprising a base, a horizontal table supported by said base forwardly thereof for supporting the work, a rotatable member above said table having a plurality of spaced vertical holes circumferentially of the center of rotation to receive and carry the work supported by said table, ball detent means between said table and rotatable member constituting a bearing support for said member during rotation of the latter upon said table, said detent means cooperating with said table to index said rotatable member and hold successive work pieces in a selected position for stamping, and a set of dies on said base disposed to operate and stamp at least one end of the successive work pieces.

2,591,474
COLD CATHODE DISCHARGE DEVICE
Paul W. Stutsman, Needham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application May 26, 1950, Serial No. 164,318
8 Claims. (Cl. 316—26)



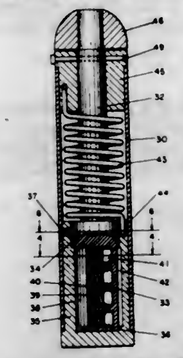
1. The method of processing a molybdenum cathode gaseous-discharge device comprising filling the envelope of said discharge device with a gaseous medium, sealing off said envelope before producing any discharge of said device, and maintaining a discharge between said cathode and another electrode of said device for a period sufficient to clean said cathode surface.

2,591,475
TIMBER SETTING MACHINE
Francis E. Sullinger, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 28, 1949, Serial No. 96,042
11 Claims. (Cl. 214—95)



1. In a timber setting machine, the combination comprising a timber supporting saddle, power operated elevating means for said saddle, a power operated clamping device for clamping a timber firmly in position on said saddle during elevation of the latter, means for effecting operation of said elevating means to elevate said saddle, and means automatically operative upon initiation of operation of said elevating means for effecting operation of said clamping device whereby the latter is actuated to effect clamping substantially concurrently with the operation of said elevating means.

2,591,476
HINGED CLOSURE CONTROL
Alfred J. Swanson, Hollywood, Calif.
Application October 9, 1945, Serial No. 621,185
3 Claims. (Cl. 16—54)



1. In a hinged door and doorframe assembly, a door arranged to hingedly swing from one of its vertical edges in a doorframe, a power hinge and a checking hinge mounting said door, each of said hinges having a hinge pin, a casing, and two leaves, one leaf being vertically adjustable on its hinge pin and means for holding the leaf in its adjusted position, the other leaf being connected to the casing, said casing being concentric with said hinge pin, said power hinge pin having a thrust bearing on said casing, the hinge pin leaf of both hinges being attached to one member of the hinged door and doorframe assembly, and the casing leaf of both hinges being attached to the other member of the hinged door and doorframe assembly; the fastening of the hinge-pin leaf to the hinge pin in said power hinge being so arranged and adjusted that all of the weight of said door is carried as a thrust load on the said thrust bearing between said hinge pin and said casing; and in said checking hinge the fastening of the hinge-pin leaf to the hinge pin being adjusted so that little or no weight thrust of the door is carried by the moving parts of said hinge.

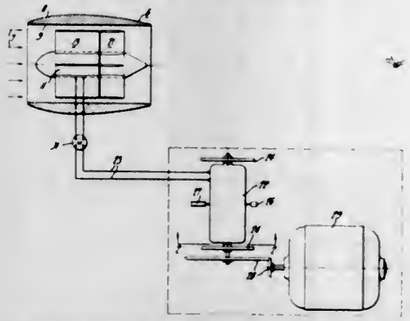
2,591,477
PLASTIC CLOTHESPIN
John B. Tegarty, Mentor, Ohio, assignor to T. R. Zettelmeyer, Willoughby, Ohio, as trustee
Application July 29, 1949, Serial No. 107,460
5 Claims. (Cl. 24—137)



4. A thermo-plastic clothespin having a hollow handle and leg structures comprising transversely extending web formations, the leg struc-

tures each being connected to the handle by outwardly bowed arcuate transverse webs, the leg webs being connected at the upper ends thereof by an inverted loop-shaped flexible web, with the loop formation freely disposed within the confines of the said arcuate webs, external beam webs centrally located on the leg webs with the beam portions extending around the said arcuate webs to the handle webs and joined thereto above the bottom terminus of the handle structure to prevent flexing of the gripping portions of the legs, and the bottom terminus of the handle structure comprising a fulcrum web arched in a direction opposite to the loop formation connecting the leg structures.

2,591,478
MASS RATE FLOWMETER
John B. Turner, Jr., Richmond, Calif.
Application June 10, 1948, Serial No. 32,?17
4 Claims. (Cl. 73—194)

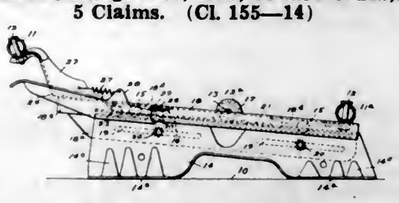


1. A mass rate flow meter comprising, a tubular member adapted for positioning in a fluid stream to be measured with the axis of said member generally parallel to the direction of flow of said stream so as to conduct at least a part of said stream through said member, a constant speed motor having a substantially cylindrical case mounted concentrically within said member to define a substantially uniform annular passage for said fluid between said case and member and having an axially extending drive shaft, a symmetrical airfoil mounted on said shaft for rotation therewith and with its plane of symmetry parallel to said axis and substantially parallel to the direction of flow of said stream and with said airfoil oriented to zero lift when not rotated in said stream, said motor being adapted to drive said airfoil at a constant angular velocity predetermined relative to the velocity of said stream that the coefficient of lift of said airfoil will be directly proportional to the angle of attack throughout the range of mass rate variation of said stream to be measured, and means for measuring the torque required to rotate said airfoil in said fluid stream.

2,591,479
METHOD OF AND SOLUTION FOR COATING SURFACES CHIEFLY OF ZINC
Herbert K. Ward, Birmingham, Mich., assignor to Parker Rust Proof Company, Detroit, Mich.
No Drawing. Application May 12, 1947, Serial No. 747,584
12 Claims. (Cl. 148—6.17)

5. The method for coating zinc surfaces which comprises the step of treating the surface with an aqueous solution which consists essentially of about 1–2 percent phosphate ion, an ion of the group consisting of the zinc ion and the manganese ion in a proportion to form dihydrogen phosphate with said phosphate ion, at least 0.2 percent nickel ion and at least 0.16 percent fluoborate ion.

2,591,480
ADJUSTABLE SEAT SUPPORT
Daniel M. Watts and Hollis P. Brown, Pontiac, Mich., assignors to American Forging and Socket Company, Pontiac, Mich., a corporation of Michigan
Application August 26, 1949, Serial No. 112,598
5 Claims. (Cl. 155—14)



1. An adjustable seat support comprising right and left assemblies arranged adjacent the opposite sides of a vehicle and each comprising a track member adapted to be secured to the vehicle floor, a slide member adapted to be attached to a vehicle seat and movable over said track member, anti-friction means interposed between said track and slide members, and means for synchronizing the movements of the respective slide members, comprising upwardly facing tracks carried by the slide members and a cross-shaft arranged above said racks and carrying pinions meshing with said racks, the ends of said cross-shaft being journaled in supports carried by said track members.

2,591,481
SPONGIOUS CLEANING DEVICE
Paul F. Webster, Mars, Pa., assignor, by mesne assignments, to Treesdale Laboratories and Textile Processing Company, a corporation of Pennsylvania
No Drawing. Application August 29, 1946, Serial No. 693,813
2 Claims. (Cl. 15—244)

1. A cleaning device consisting of a spongious body impregnated with a substantially anhydrous, synthetic, organic, non-saponaceous detergent.

2,591,482
PAINT CAN SPLASH PROTECTOR
Robert T. Weitlich, Wooster, Ohio, assignor of one-half to Alfred E. Braun, Wooster, Ohio
Application May 10, 1948, Serial No. 26,189
1 Claim. (Cl. 220—90)



In combination with a paint can or the like having an annular cover flange receiving groove extending around the can opening at one end of the can, a protrusion extending radially outwardly around the margin of the cylindrical wall of the can at its open end, and a protrusion extending radially inwardly around the margin of the inner wall of the flange receiving groove, said protrusion being offset axially of the can from the plane of said first mentioned protrusion, a protector comprising an annular split ring member of solid rubber substantially trapezoidal in cross section with the apex along the upper outer peripheral margin thereof, an annular groove in the bottom face of said member forming jaws engaging the wall of the can and the inner wall of the flange receiving groove, the side walls of the groove in said annular member being recessed laterally in axially offset planes corresponding to the planes of said protrusions into the body of the groove wall adjacent the bottom thereof to receive said protrusions, said member having an integral segmental portion extending inwardly beyond the inner wall of the groove and terminating in a substantially straight edge across a portion of its circumference to form a wiper blade, the surface of said member opposite the groove and the contiguous surface of said wiper blade being sloped radially inwardly.

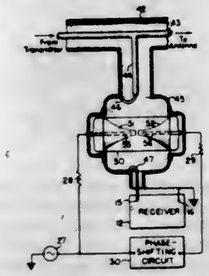
2,591,483
PROGRESSIVE TOOL AND IMPROVED METHOD OF PROGRESSIVELY FORMING ARTICLES FROM STRIP STOCK OR THE LIKE
Albert J. West, Oglesby, Ill., assignor to General Time Corporation, New York, N. Y., a corporation of Delaware
Application May 1, 1944, Serial No. 533,612
13 Claims. (Cl. 59—6)



1. A method for making a cartridge belt link from strip stock comprising the steps of advancing the strip stock step by step along a line of feed, forming a blank therefrom as it passes a predetermined point, slitting a said blank so as to provide a plurality of longitudinally disposed parallel portions which are connected to each other at both of their ends, severing said blank from said strip, applying forming pressure to adjacent portions of said slitted blank in opposite directions so as to expand the same into a partially formed blank having oppositely disposed loop portions, translating said partially formed blank into an intermediate position at right angles to the line of feed where it may be engaged by a succeeding blank and be displaced by said succeeding blank into a final forming position, and subjecting said partially formed blank to a second forming operation wherein the forming pressure is applied in a different direction than the forming pressure applied in the first forming operation.

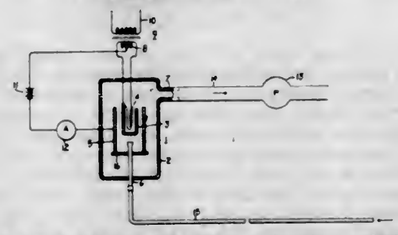
2,591,484
ARRANGEMENT FOR DESENSITIZING HIGH-FREQUENCY ELECTRICAL-WAVE APPARATUS
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application August 9, 1946, Serial No. 689,457
11 Claims. (Cl. 250—13)

1. An arrangement for desensitizing high-frequency electrical-wave apparatus upon application thereto of excessive wave energy of a type to which said apparatus is ordinarily sensitive comprising, an input circuit of said apparatus to which said wave energy may be applied, ionic-discharge short-circuiting means coupled with said input circuit, two auxiliary ionic-discharge means coupled with said short-circuiting means to form auxiliary ionic-discharge paths, means for exciting one of said two auxiliary means with an alternating voltage to supply ions for said ionic-discharge short-circuiting means during intervals when said alternating voltage has a sufficient instantaneous value, and means for exciting the



other of said two auxiliary means with an alternating voltage which is phase-displaced from said first-mentioned alternating voltage by an amount other than an integral multiple of 180° to supply ions for said short-circuiting means during intervals when said first-mentioned alternating voltage has a value much less than its peak value.

2,591,485
LEAK DETECTOR
William C. White, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 26, 1950, Serial No. 158,269
5 Claims. (Cl. 175—183)

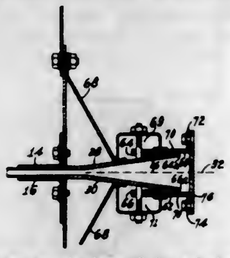


1. Apparatus for detecting a foreign substance in an atmosphere comprising an electric discharge device including a pair of electrodes, means for imposing an electrical potential difference between said electrodes, means for heating the more positive of said electrodes, means for causing a controlled flow of the atmosphere between said electrodes, said means comprising a vacuum pump and a conduit to the space between said electrodes, said conduit having a cross-sectional area substantially smaller than the space between said electrodes, and means for detecting changes in the current between said electrodes caused by the formation of positive ions in said device due to the presence of the substance.

2,591,486
ELECTROMAGNETIC HORN ANTENNA
William C. Wilkinson, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1949, Serial No. 136,179
15 Claims. (Cl. 250—33.63)

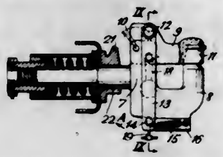
1. With an electromagnetic energy radiator or receptor having a wall portion defining a horn aperture and having a radiation pattern compris-

ing a main lobe in a principal direction of radiation and side lobes, the combination comprising a reflector positioned outside said aperture and closely spaced adjacent said wall portion but



dielectrically separated and insulated therefrom and extending partially and not entirely beyond the horn termination in the principal direction of energy radiation in said main lobe, whereby the side lobes are reduced or eliminated.

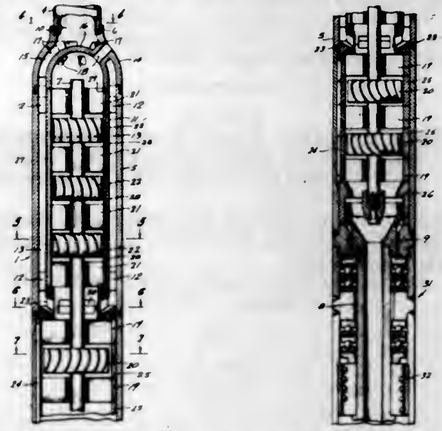
2,591,487
DRAW HOOK WITH LOCK CAP FOR TRAILERS
Ernst Wirz, Zurich, Switzerland
Application October 25, 1948, Serial No. 56,349
In Switzerland October 24, 1947
6 Claims. (Cl. 280—33.9)
(Granted under the provisions of sec. 14, act of March 2. 1927; 357 O. G. 5)



2. A draw hook of the spring loaded swivel type for trailers adapted to be fixed to the frame of a draft vehicle, comprising a swiveled hook body having a stud-like end portion, a lock cap pivoted to the hook body, the free end of said cap being adapted to fit over the said hook end portion in its locked position for assisting in the prevention of bending of the hook when loaded, stirrup means pivoted to the lock cap and adapted to secure the latter to the hook in the closed position to avoid an inadvertent opening thereof, a spring connected at one end to the stirrup means and at the other end to the hook body, said spring adapted to bias the stirrup means into its locking position, holes provided in the hook body and cap and stirrup means, such holes registering with each other in the closed position of the cap, and a key bolt adapted to be passed through the said registering holes for locking the lock cap and stirrup means in the closed position.

2,591,488
BALANCED TURBODRILL
Lloyd Yost, San Gabriel, Calif., assignor, by direct and mesne assignments, of one-half to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York, and one-half to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application November 8, 1946, Serial No. 708,699
7 Claims. (Cl. 255—4)

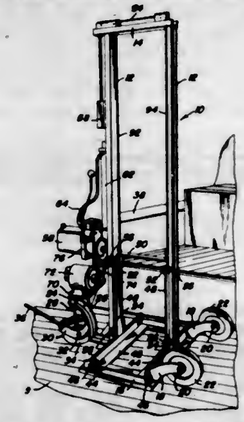
5. In a turbo-drill for well drilling and the like and having a long multi-stage hydraulic turbine assembly with the lower end of the rotary turbine shaft carrying a drill bit of a diameter greater than the turbine assembly and with the upper end of the substantially non-rotary turbine casing carried by the end of a drill pipe which supplies a substantially incompressible power mud to drive the turbine and to raise the spoil in the well, a turbine assembly comprising a cylindrical casing secured to the drill pipe axially thereof, a turbine shaft disposed axially of the casing to rotate in bearings supporting the same, spaced upper and lower axial-flow turbine blade sections including runner sections carried by the turbine shaft and intermediate guide sections carried by the turbine casing, the power mud inlet for said turbine being disposed between said upper and lower blade sections, a passage from the drill pipe to said inlet for the power mud to operate



the turbine, a discharge passage through the turbine shaft and drill bit for the power mud passing through the lower blade section, and a series of upward discharge openings at the top of said casing and surrounding the drill pipe for the power mud passing through the upper blade section, the quantity of power mud required to operate said turbine and the diameter of the turbine relative to that of the drill bit and consequent diameter of the well being such that full discharge of all of the power mud at the drill bit would tend to damage the well by reason of an insufficient radial space for its passage upward between the turbine and the walls of the well, and the by-pass discharge of a portion of the power mud upwardly at the top of the casing serving to assist in giving impetus to the upward moving mixture of power mud and spoil from the bit.

2,591,489
HYDRAULIC LIFT
Eli J. Adams, Rogersville, Mo.
Application December 22, 1949, Serial No. 134,538
10 Claims. (Cl. 187—9)

9. A portable elevator comprising a frame including a pair of uprights and a cross member joining the upper ends of said uprights, a carriage slidably carried by said upright for vertical movement, a vertically movable plunger paralleling said uprights, an upper pair of guide members rotatably supported on the cross-member, a pulley rotatably supported on said cross-member, a lower guide member rotatably supported on the plunger, a first flexible element terminally attached to said plunger and said carriage and trained over both of said upper guide members and said pulley and also trained under the lower guide member, and a second flexible element terminally attached to said plunger and said carriage and being trained over both upper



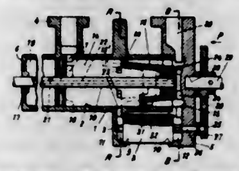
guide members and under the lower guide member.

2,591,490
AIR FILTER
Oliver L. Allen, Riverside, Conn., assignor to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application March 1, 1946, Serial No. 651,197
3 Claims. (Cl. 183—45)

1. An air filter comprising a layer of flexible compressible fibrous material, a cover sheet of flexible fabric on at least one side of said layer, the peripheral edge portion of said layer being compressed against the peripheral edge portion of said cover sheet, and a stiffening rim of set plastic material bonded to and bonding together said edge portions.

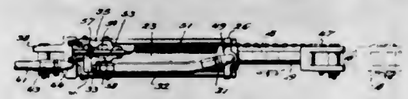
2,591,491
VARIABLE DELIVERY POSITIVE DISPLACEMENT PUMP
Rudolf Amsler, Neuhausen on Rheinfall, Switzerland, assignor to Schweizerische Industrie-Gesellschaft, Neuhausen on Rheinfall, Switzerland
Application January 23, 1948, Serial No. 4,016
In Switzerland March 5, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires March 5, 1965
14 Claims. (Cl. 103—11)

1. A pump having a wide regulating range for delivering a variable quantity of liquid, comprising, a casing, a plurality of positive displacement pumps connected in parallel and mounted on said casing in a circle about the casing axis, a common suction chamber for said pumps in said casing, a common delivery chamber for said pumps in said casing, a plurality of openings in said casing in said delivery chamber establishing communication between each pump outlet and said delivery chamber, means establishing communication between said suction chamber and each pump inlet, a control piston in said casing adjacent said opening separating said delivery chamber and said suction chamber, means for axially displacing said piston in said



casing, said piston having a control surface on its periphery at one edge thereof for controlling said openings to establish communication between the outlets of such of said pumps as will satisfy the delivery demand and said delivery chamber, said control surface being adapted to establish communication between the outlets of the remaining pumps and said suction chamber, and drive means for rotating said control piston.

2,591,492
OVERTRAVEL CONTROL APPARATUS FOR HYDRAULICALLY CONTROLLED AGRICULTURAL IMPLEMENTS
Floyd W. Anderson and Stanley E. Hill, Kankakee, Ill., assignors to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application August 12, 1948, Serial No. 43,884
2 Claims. (Cl. 121—38)



1. In a closed circuit hydraulic control system, a main housing for containing a reciprocable piston comprising a principal chamber which communicates at a rear end of said housing with a piston projecting fluid conduit and at a fore end with a piston retracting fluid conduit, a piston contained in said main housing having an axial rod which extends through a forward cap of said housing and carries a work performing connection and a resilient valve operating linkage, a valve housing auxiliary to said main housing affording a first chamber in communication with said piston retracting fluid conduit and a second chamber in communication with a reversible source of fluid pressure, a partition separating said valve housing chambers having a valvular orifice and a bleeder orifice therethrough in communication with said chambers, a seat valve carried upon a longitudinally slideable stem sealing said valvular orifice and seated on said first chamber side of said partition, a spring on said stem urging said valve towards its open position, a coil spring comprising part of said resilient valve operating linkage capable of overpowering said valve return spring for thereby urging said valve into its closed position when said piston and its rod are projected beyond a predetermined degree, and journal bushings in said valve housing receiving said slideable stem at extremities of said chambers for thereby approximately balancing the surface areas of said seat valve for the purpose of rendering its slideable movement independent of hydraulic pressures in said chambers.

2,591,493

METAL MOLYBDITE CATALYZED DEHYDRATION PROCESS

Herrick R. Arnold, Wilmington, and James E. Carnahan, New Castle, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 9, 1950, Serial No. 143,351
13 Claims. (Cl. 260—465.2)

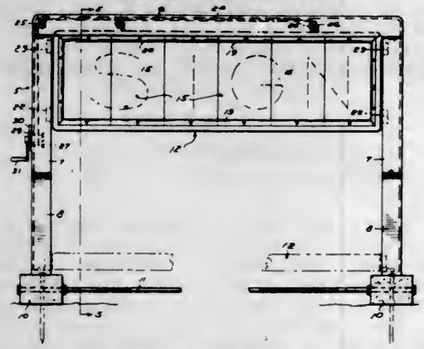
1. In a process for catalytically abstracting water from organic compounds capable of undergoing dehydration, the improvement which comprises contacting an organic compound capable of undergoing dehydration and selected from the class consisting of organic compounds containing an oxo group, organic compounds containing an oxy group and organic compounds containing a carboxylic acid group, at a temperature of 50° to 500° C. with a molybdite of a metal whose ions are soluble in aqueous ammonia in amount greater than that stoichiometrically required to precipitate the metal ion, said metal molybdite being a metal salt of an acid having one of the formulas corresponding to H_2MoO_2 and H_2MoO_3.

2,591,494

COLLAPSIBLE SIGNBOARD

George R. Asachika, Miami, Fla.

Application October 10, 1949, Serial No. 120,483
5 Claims. (Cl. 40—125)



1. A sign of the character described comprising a vertically arranged U-shaped frame of channel formation, the said frame comprising a header and uprights, the uprights terminating at their lower ends in outwardly inclined legs of channel formation, the said channels communicating throughout the header, uprights and legs, a rigid base for the support of the frame, a sign device having opposite display faces, guide rollers carried by the sign device and operable in the channels, means for raising and lowering the sign device with respect to the frame, the said sign device when lowered to the base caused to assume a horizontal position by the engagement of the rollers in the channels.

2,591,495

HAND BRAKE ASSEMBLY

John D. Baldwin, Jr., Highland Heights, and Frederic D. Wyss, Cleveland Heights, Ohio, assignors to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio

Application December 22, 1950, Serial No. 202,308
7 Claims. (Cl. 74—503)

2. Operating mechanism comprising a fixed ratchet, an elongated operating member slidable along said ratchet, handle means at the outer end of said operating member, a latch bar slidable along said operating member having manual means at the axially outer end thereof for moving the bar axially inwardly, tooth means on said bar spaced axially inwardly from said manual means having axially inner face means for latching with said ratchet, said face means forming an acute angle relative to the direction of motion



of said operating member, inclined guide means formed on said bar and operating member adjacent said tooth means, said guide means being inclined at an acute angle relative to the direction of motion of said operating member, said latter angle being less than the corresponding angle of inclination of said tooth face means, and spring means for urging said latch bar axially outwardly.

2,591,496

COKING COAL

Ernst Berl, deceased, late of Pittsburgh, Pa., by Walter G. Berl, executor, Pittsburgh, Pa.

No Drawing. Application August 6, 1946, Serial No. 688,682
10 Claims. (Cl. 202—33)

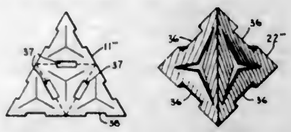
1. Process of making a mechanically strong coke from non-coking coal, comprising heating in a closed system a non-coking coal in an alkaline liquid medium and in the presence of a carbohydrate-containing material, the alkalinity of said liquid medium being that of at least 2 parts by weight, calculated as NaOH, per 100 parts by weight of said carbohydrate-containing material, at a temperature above the temperature at which said medium boils at atmospheric pressure, whereby a superatmospheric pressure results in said closed system, until said carbohydrate-containing material is transformed into a bituminous substance characterized by phenolic groups and a composition of coal and said bituminous substance is formed, and subjecting said composition to a coking temperature of the order of at least 800° C. whereby said phenolic-groups-containing bituminous substance is decomposed at said coking temperature and the non-volatile residue therefrom cements said coal.

2,591,497

FILLING BODY FOR GAS-LIQUID CONTACT TOWERS

Ernst Berl, deceased, late of Pittsburgh, Pa., by Walter G. Berl executor, Pittsburgh, Pa.

Application September 5, 1947, Serial No. 772,364
10 Claims. (Cl. 261—95)



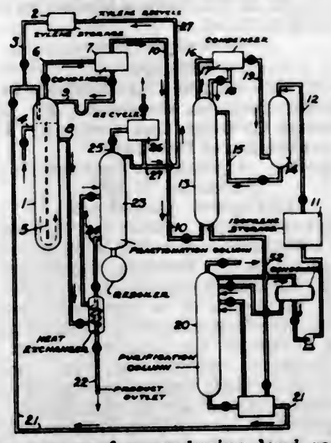
1. A filling body for reaction and washing towers and the like, formed from a substantially fluid impermeable sheet-like blank and folded to form a hollow polyhedron, the boundary surfaces of said polyhedron including a plurality of triangles, the surface of each triangle being substantially linearly incised with the blank area bordering each incision being distorted from the plane of the triangle providing a fluid passage through said hollow polyhedron without substantially decreasing the surface area.

2,591,498

PROCESS FOR BROMINATING XYLENE

Joseph L. Betts, Jr., and Allen L. Chaney, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 13, 1949, Serial No. 87,204
7 Claims. (Cl. 252—386)



1. The process for producing lead scavenging agents consisting of contacting at least one isomer of xylene with bromine in the presence of an iron catalyst at temperatures of about 0° F. to 150° F. and pressures of about atmospheric up to 50 p. s. i. whereby mono bromo xylene and hydrobromic acid are formed and thereafter contacting at least one mol of the hydrobromic acid with a diolefin selected from the class of four and five carbon atom diolefins at temperatures of about —40° to 100° F. and pressures of about 0 to 100 p. s. i. g. and thereafter returning the product to the step of the process in which the xylene is brominated.

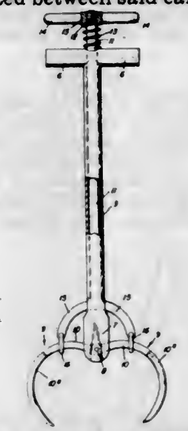
2,591,499

COAL TONGS

Burl Houston Bible, Laurens, S. C.

Application September 25, 1947, Serial No. 776,115
2 Claims. (Cl. 294—115)

1. A pair of tongs of the class shown and described comprising an elongated open ended tubular member formed with lateral hand-grips at its inner grasping end and formed with a pair of flat spaced parallel comparatively broad ears at its opposite outer end, a single hinge pin mounted in and bridging the space between the outer end portions of said ears, a rod slidably mounted in said tube and having one end portion operable between said ears, the opposite end projecting beyond said hand-grips and being provided with additional hand-grips opposed to and operable in conjunction with the first named hand-grips, a coiled spring surrounding the rod and interposed between the respective sets of hand-grips, a pair of arcuate arms rigidly secured to the outer end portion of said rod and operable with the latter between said ears, said arms being diametrically opposite to each other and radial to the axis of said tubular member and having their outer ends projecting beyond the marginal edges of said ears, a pair of jaws having gripping fingers and respective inner ends of the shanks, the shanks of the respective jaws terminating and being situated between said ears and hingedly



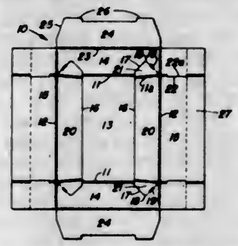
attached to the stated hinge pin, and rings hingedly mounted on the outer end portions of said arcuate arms and loosely embracing the shanks of the respective jaws.

2,591,500

COLLAPSIBLE CARDBOARD CARTON

Harrison C. Bloomer, Newark, N. Y., assignor to Bloomer Bros. Company, Newark, N. Y., a corporation of New York

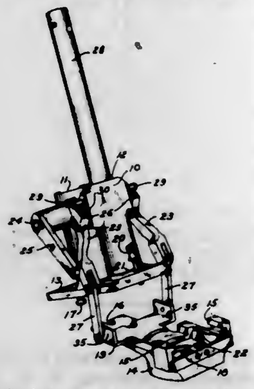
Application July 16, 1948, Serial No. 39,097
2 Claims. (Cl. 229—31)



2. A collapsible carton made from a single blank of foldable sheet material cut, scored and folded to form a bottom panel having end walls hinged to the opposite ends thereof and reinforcing strips folded reversely at the opposite sides thereof, and glued to said panel and end walls, said strips having an aggregate lateral width substantially less than the lateral width of said bottom panel and having the outer edges thereof disposed in substantially spaced relation with each other and glued to said bottom panel throughout the longitudinal extent of said panel and said hingedly connected end walls, said panel having longitudinally extending slits spaced laterally from each other and located between the outer glued edges of said reinforcing strips and the fold lines of said strips, said slits extending into said end walls, score lines connecting the ends of said slit extensions with said strip fold lines adjacent the junction thereof with the hinge lines of said end walls and making an angle of about 45° with said strip fold lines, the portions of said panel between said slits and strip fold lines being foldable about said strip fold lines to form side walls and the portions of said end walls between said

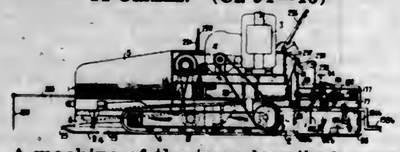
slit extensions and said score lines forming webs foldably connecting said side and end walls, and flaps hinged to the outer ends of said end walls and foldable inwardly and downwardly over said webs and between the ends of said side walls to hold said parts in erected position.

2,591,501
SANITARY MILK BOTTLE CAPPING HEAD
Ray E. Bodendoerfer and David C. Fee, Milwaukee, and Herman C. Frentzel, Shorewood, Wis., assignors to Federal Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Application March 7, 1949, Serial No. 79,982
4 Claims. (Cl. 226—92)



1. A milk bottle capper comprising, a vertically movable suspended frame having an integral protruding base provided with integral opposite side rails and also having a receptacle for delivering closure caps through the base, a feed slide movable along the lower surface of said base to transfer the successive caps from said receptacle to a laterally disposed capping zone, a bottom plate having integral hook flanges coacting with said rails to support said slide and also having an opening between said flanges and communicating with said capping zone, and a freely vertically removable pin coacting with said base and plate to normally prevent relative shifting thereof, said bottom plate flanges being freely laterally removable from said base rails only when said pin has been removed.

2,591,502
ROAD PAVING MACHINE
Robert C. Bohannan and Henry M. Pickard, Columbus, and Harold R. Horning, Parma, Ohio, assignors to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application April 2, 1949, Serial No. 85,244
44 Claims. (Cl. 94—46)

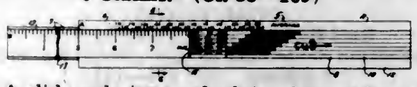


1. A machine of the type described comprising a unit supported for travel over the relatively rough surface to be covered, a material leveling unit disposed in cooperative relationship with the first unit and including elongated runner members adapted to slide along the surface to be covered and bridge irregularities thereof, means for connecting said runner members to the first unit for relatively free vertical movement, said material leveling unit also including a frame having its forward end pivotally supported by means including said runner members, a transversely disposed forward leveling member carried by said frame and adapted to act on material disposed in front thereof on the surface to be covered and a rear leveling member disposed on said frame behind the forward leveling member and extending laterally beyond the adjacent end thereof, means for suspending the rear end of said frame from said first unit and being operable to vary the level of the rear end of the frame, and control means for automatically operating said suspending means to control the level of the rear end of the frame, said control means including a gauge member which acts on the surface leveled by said forward leveling member.

2,591,503
COMBUSTION CATALYST COMPOSITIONS
Robert Roger Bottoms, Crestwood, Ky., assignor to National Cylinder Gas Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application January 17, 1949, Serial No. 71,389
12 Claims. (Cl. 44—68)

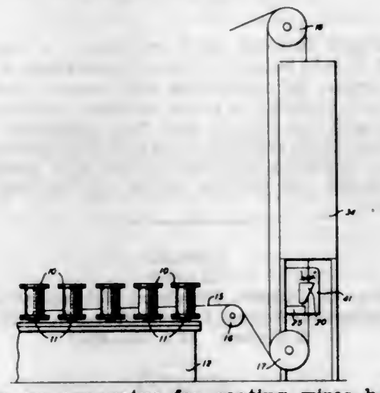
1. A non-hazardous, stable liquid combustion adjuvant composition miscible with hydrocarbon fuels to improve the burning characteristics of such fuels, composed essentially of from 1% to about 15% by weight of at least one organo-metallic compound formed from a metal of the group consisting of copper, tin, lead, chromium, molybdenum, tungsten, manganese, iron, cobalt and nickel and an organic radical having at least two double bonded oxygen atoms attached to carbon atoms separated by a methylene or substituted methylene group, said organo-metallic compound being dissolved in crystal-free neutral coal tar oil, and said composition being characterized by solution stability alone and in admixture with hydrocarbon fuels, and in the presence of water, other fuel additives, alkyl halides, and at temperatures at least as low as −35° F., and by a flash point of not less than 170° F. by the A. S. T. M. open cup method.

2,591,504
HOG CARCASS GRADE CALCULATOR
Robert E. Botts, Madison, Wis., assignor to Oscar Mayer & Co., Inc., Chicago, Ill., a corporation of Illinois
Application February 10, 1950, Serial No. 143,455
6 Claims. (Cl. 33—169)



1. A slide-rule type calculator for grading hog carcasses according to an empirical grading system wherein one factor is the average value obtained by measuring fat back thickness at x different predetermined anatomical locations, an other factor is selected from the group consisting of live weight, carcass weight, and carcass length, and there is a grade corresponding to any encounterable combination of these two factors, said calculator comprising in combination, a pair of slidably interfitting slide-rule members, one of said members bearing a scale graduated in units of lengths, the other of said members bearing a scale graduated in average fat back thickness so that when said length scale bearing member is pulled out any distance d from its zero position relative to said fat back scale, an index on said length scale bearing member will register on said fat back scale a value equal to the quotient obtained by dividing d by x, one of said members carrying a table having divisions extending parallel to the length of the member and tabulated in at least one of said factors of the group consisting of live weight, carcass weight and carcass length, and said average fat back thickness scale bearing member also carrying a grade chart oriented both with respect to said average fat back thickness scale and said table, whereby the grade corresponding to any encounterable combination of said two factors may be read directly on said grade chart.

2,591,505
DIE MECHANISM FOR WIRE COATING APPARATUS
Earle H. Brink, Kenmore, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 26, 1950, Serial No. 164,541
4 Claims. (Cl. 118—122)



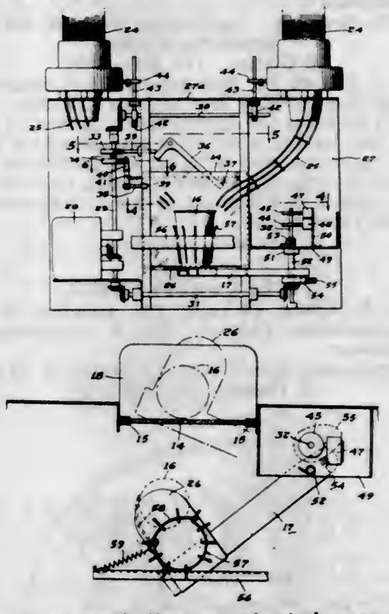
1. In an apparatus for coating wires having a supply of coating material, dies to wipe excess coating material from the wires, fingers to support the dies, an oven to bake the coating material on the wires and sheaves to direct the wires through the supply of material, the dies and the oven, an element extending transversely of the wires, and a mechanism to removably support the element at a threading position back of the wires to maintain the wires free of the coating material until the threading operation is completed, and to removably support the element at an operating position in front of the dies to maintain the dies on their supporting fingers during operation of the apparatus.

2,591,506
2-VINYL-THIAZOLE
Lester A. Brooks, East Norwalk, Conn., and Moushy Markarian, North Adams, and Mathew Naszewski, Adams, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
No Drawing. Application September 11, 1948, Serial No. 48,925
2 Claims. (Cl. 260—302)

1. A 2-vinyl thiazole.

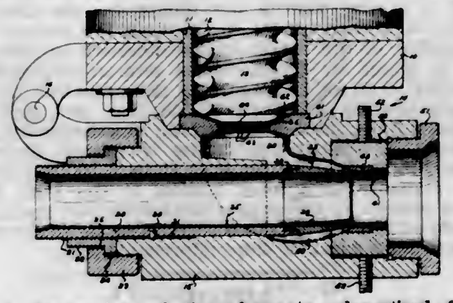
2,591,507
SANITARY LIQUID DISPENSING MACHINE
Donald W. Brous, Francestown, N. H., assignor to Food Engineering Corporation, Manchester, N. H., a corporation of New Hampshire
Application September 16, 1948, Serial No. 49,509
6 Claims. (Cl. 222—21)

1. In an automatic liquid purveying machine, the combination within a casing having an opening therein sealed by a normally locked window and comprising a serving ledge below and forward of the window, of a container of the liquid purveyed, a cup dispenser, means for presenting a cup to be charged with a predetermined quantity of the liquid, means for unlocking and opening the window, carrier means for conveying the



filled cup through the opened window and for depositing it on the ledge, means for substantially closing the window behind the filled cup, means for returning the carrier means to a point within the casing, and means operable on return of the carrier means to completely close and lock the window.

2,591,508
EXTRUSION APPARATUS
Grant S. Brown, Downers Grove, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 31, 1950, Serial No. 141,541
6 Claims. (Cl. 18—13)



1. Apparatus of the character described for providing back pressure within a plastic material feeding and working chamber comprising a breaker plate, an annular imperforate surface on the plate gradually sloping toward its center, and a flat central area on said plate containing a plurality of relatively small apertures, the total cross-sectional area of the apertures being less than about one twenty-fifth of the cross-sectional area of the plate.

2,591,509
MANUFACTURE OF ALKYL LEAD COMPOUNDS

George Calingaert, Geneva, N. Y., and Hymin Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware

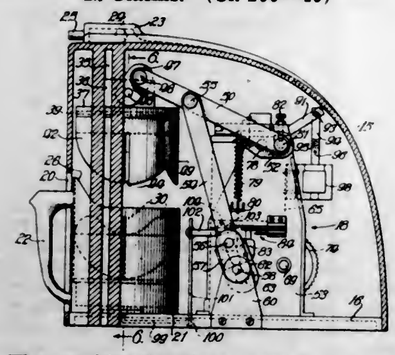
No Drawing. Application April 30, 1951, Serial No. 223,815
6 Claims. (Cl. 260—437)

1. A process for making alkyllead compounds comprising reacting lead with an alkylating agent which includes the hydrocarbon radical in question and having a negative radical which reacts with cadmium, and with an alkylcadmium compound having the formula RCdX wherein R is alkyl and X is a member of the group consisting of alkyl and halide.

2,591,510
CITRUS FRUIT PRESS

Jesse H. Clark, Chicago, Ill., assignor to Cory Corporation, Chicago, Ill., a corporation of Delaware

Application March 25, 1949, Serial No. 83,413
12 Claims. (Cl. 100—40)



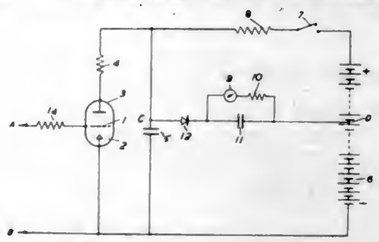
5. The combination, in a press for citrus fruits and the like, of a stationary jaw, a vertically reciprocable jaw disposed above the stationary jaw, a lever connected at one end to the reciprocable jaw and reciprocable in a vertical plane, a fulcrum pin for the lever, a rocker reciprocable in a vertical plane, the fulcrum pin being carried by the rocker at a point remote from the center of rotation of the rocker, a spring biasing the rocker in one direction, abutment means for limiting the degree of rotation of the rocker in the direction in which it is biased by the spring, a pitman connected to the lever for reciprocating the same and thus reciprocating the reciprocable jaw, and power means for actuating the pitman, the rocker being rotatable against the spring to permit downward movement of the lever at its fulcrum point in response to a force applied to the lever by the pitman in excess of a predetermined magnitude and in the direction corresponding to downward movement of the reciprocable jaw.

2,591,511
VOLTAGE UNBALANCE INDICATING SYSTEM

Alfred Gordon Clarke, Slough, England, assignor to Ronald Trist & Co. Limited, Slough, England, a British company

Application October 24, 1949, Serial No. 123,205
In Great Britain October 28, 1948
7 Claims. (Cl. 177—311)

1. An electric measuring circuit comprising in combination a source of unidirectional voltage having a high internal resistance, a cold-cathode gas discharge tube, means for applying said unidirectional voltage between the cathode and the control electrode of said tube in such a sense as to render said control electrode negative with respect to said cathode, a condenser connected in parallel with the anode and cathode of said tube, a high resistance, a high tension battery, means connecting said battery to charge said

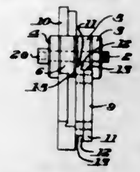


condenser through said resistance, a tapping-point on said battery, a second condenser, a rectifier, means for connecting said second condenser and said rectifier in series between said tapping-point and the side of said first condenser adjacent said high resistance, so that said second condenser tends to hold its charge, and means for measuring the voltage across said second condenser.

2,591,512
CLAMP

Guy O. Conner, Cleveland Heights, Ohio

Application August 5, 1947, Serial No. 766,397
2 Claims. (Cl. 29—286)



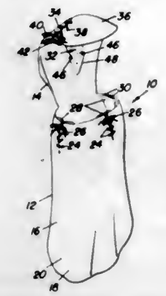
1. A clamp comprising cooperating portions adapted to be disposed on opposite sides of a structure to be clamped, one of the portions having a straight lateral edge, said portion containing a recess opening thereinto both from said straight lateral edge and from an adjacent face of said portion, said recess extending parallel to said straight lateral edge and being deeper in a direction generally normal to said face at a zone relatively remote from said straight lateral edge than at a zone relatively near said straight lateral edge so as to be adapted to receive a footed flange on the structure while an edge of the structure lies against said straight lateral ledge, and means offset from the structure for holding the portions together in clamping relationship to the structure.

2,591,513
MATERNITY JUMPER

Leone W. Cormier, Inglewood, Calif.

Application August 15, 1947, Serial No. 768,793
2 Claims. (Cl. 2—74)

1. A maternity jumper comprising a skirt member and a bib member, the skirt member including a front section and a rear section connected together at the opposite sides of the jumper, said bib member being integral with and constituting an upward continuation of the front section of the skirt member, the upper edge portion of the skirt member being provided at the sides and back thereof with V-shaped notches and with rows of eyelets adjacent opposite side edges of each notch, laces extending through said eyelets for drawing the side edges of the notches together, whereby to circumferentially contract said skirt member, said bib member being provided with a V-shaped neck opening and with transverse rows of eyelets along the upper edge



of said bib member at the opposite sides of said opening, a transversely elongated rearwardly depending shoulder piece disposed at the upper edges of said bib member and having end portions thereof provided with transverse rows of eyelets adjacent the eyelets in the bib member, and laces extending through the eyelets in the bib member and shoulder piece whereby to adjustably connect the same together.

2,591,514
PUSH TYPE DRAIN VALVE

Louis B. Courtot, Cleveland, Ohio, assignor to The Weatherhead Company, Cleveland, Ohio, a corporation of Ohio

Application January 20, 1950, Serial No. 139,605
4 Claims. (Cl. 137—34)

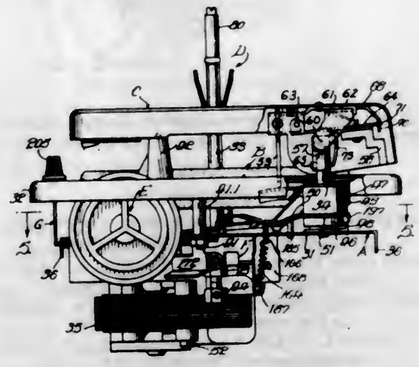


1. A valve comprising a body member, a bore in said body member, a valve member slidably and rotatably mounted in said body bore, valve seat and valve seat engaging means associated with said members, a spring engaging said members and arranged for urging said valve seat means into engagement, a polygonal flange extending from said body, and latch means extending radially from said valve member, said latch means including a radially inwardly extending arm, the inner end of said arm having a recess formed to snugly receive a corner of said polygonal flange and clearing the flats of said polygonal flange when the valve member is moved axially against the force of said spring with said arm aligned with a flat, said spring thereafter pressing the recessed portion of said arm into engagement with a corner of said polygonal flange upon partial rotation of said valve member, said handle also including a pair of opposed wing-like grips bent up from said handle intermediate said radial arms.

2,591,515
PHONOGRAPH

Colin B. Dale, Oak Park, Ill., assignor to Webster-Chicago Corporation, Chicago, Ill., a corporation of Illinois

Original application December 15, 1949, Serial No. 133,168. Divided and this application January 13, 1950, Serial No. 138,473
6 Claims. (Cl. 274—10)



1. In a phonograph, the combination of a supporting base, a record-supporting turntable journaled for rotation on the base, a motor mounted on the base and connectable to rotate the turntable, a tone arm oscillatingly mounted on the base to traverse a record on the turntable, a plate mounted intermediately its ends on the base to swing in a horizontal plane on a vertical axis and tilt in a vertical plane on a horizontal axis, a cam member associated with the turntable and having a track formed in the face thereof to effect horizontal and vertical movements and provided with peripheral entrance and exit openings, a cam track follower on one end of the plate adapted to traverse the cam track to effect a tilting and swinging of the plate, means on the other end of the plate adapted to engage the tone arm to elevate the same and carry it to starting position when the plate is tilted and swung as a result of engagement of the follower with the cam track, and tripper means actuated by the tone arm as it approaches the limit of its inward movement to shift the plate horizontally to move the cam track follower through the peripheral entrance opening to initiate engagement of the cam track follower with the cam track whereby the plate is actuated by said cam member to return the tone arm to starting position and to eject the cam track follower through the peripheral exit opening.

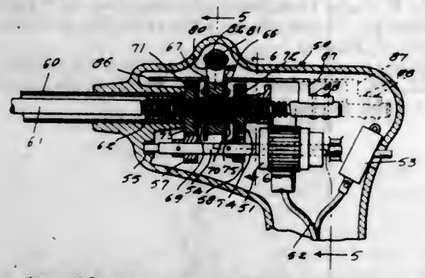
2,591,516
DISPENSING DEVICE

Victor L. Darnell, Spring Valley, Ohio

Application May 8, 1950, Serial No. 160,795
6 Claims. (Cl. 107—48)

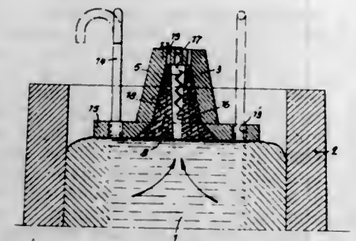
1. In a dispensing device for semi-fluid substances, a casing motor means in said casing, a drive shaft for said motor, a gear on said drive shaft, a sleeve, a gear on said sleeve meshing with said first-mentioned gear whereby actuation of said motor rotates said sleeve, a cup carried by said sleeve, a reciprocably movable ejector plunger in said cup, a rod secured to said plunger and extending through said sleeve into said casing means securing said rod against rotation,

and means including threads on said rod and a nut engaging said threads rotatable by said



motor in said casing connected to said motor for reciprocating said rod and, hence, said plunger.

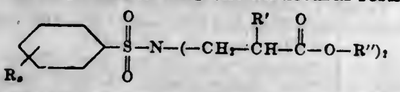
2,591,517
METHOD AND DEVICE FOR CASTING INGOTS OF RIMMING STEEL
Henri Jean Daussan, Metz, France, assignor to The Ferro Engineering Company
Application May 21, 1945, Serial No. 594,902
In France December 24, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires December 24, 1962
5 Claims. (Cl. 22—147)



1. The method of casting an ingot of effervescent or rimming steel which consists in teeming the molten steel into an ingot mold, permitting a limited solidification or rimming-in action of the metal at the top of the ingot while essentially the central portion at the top of the ingot is molten and gassing and maintaining such molten condition to allow free escape of the gases until there is essentially cessation of escaping gas.

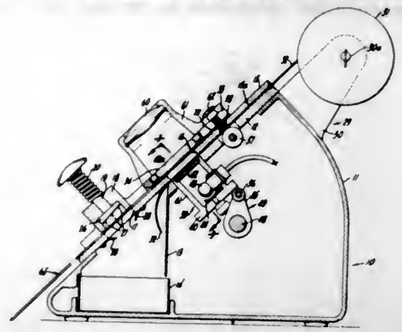
2,591,518
N,N - DI(β - CARBOALKOXYALKYL) ALKYLBENZENE SULFONAMIDES AND THEIR USE AS POLYVINYL CHLORIDE PLASTICIZERS
Joachim Daszi, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application March 24, 1949, Serial No. 83,287
6 Claims. (Cl. 260—30.8)

1. A compound having the structural formula:



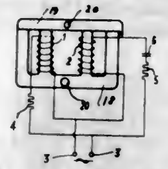
wherein R is a radical of the group consisting of hydrogen, methyl and ethyl, x is a small whole number from one to two, inclusive, R' is a radical of the group consisting of hydrogen and methyl, and R'' is an aliphatic radical of the group consisting of hydrocarbon, oxahydrocarbon and thiahydrocarbon radicals having up to a total of fourteen carbon, oxygen and sulfur atoms.

2,591,519
FILM REGISTERING AND MOUNTING DEVICE
David A. Decker, Fairfield, Conn., assignor to The McBee Company, Athens, Ohio, a corporation of Ohio
Application October 7, 1948, Serial No. 53,194
8 Claims. (Cl. 216—22)



1. A device of the character described, comprising a first pressure member having a transparent pressure surface, a source of illumination, a second pressure member having a translucent pressure surface disposed between said transparent surface and source of illumination, and means for moving one of said pressure members into and out of contact with the other.

2,591,520
ELECTROMAGNETIC RELAY OR CONTACTOR
Wladimir de Fligué, Paris, France
Application March 9, 1949, Serial No. 80,511
In France March 19, 1948
4 Claims. (Cl. 175—335)

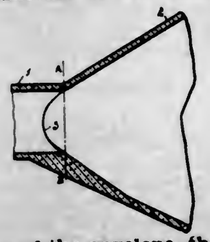


1. In an electromagnetic relay device, a rigid core comprising at least two separate portions of magnetic material adapted to constitute magnetic circuits connected through a bridging portion, said core being associated with a rigid armature comprising separate portions of magnetic material adapted to close simultaneously said magnetic circuits and connected through a bridging portion, at least one of said bridging portions having a substantially greater magnetic reluctance than said magnetic circuits; an energizing coil arranged on each of said first-mentioned separate portions; and means for supplying said coils with out-of-phase energizing currents.

2,591,521
CATHODE-RAY TUBE AND METHOD OF MANUFACTURING SUCH TUBES
Johannes de Gier, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 7, 1950, Serial No. 148,033
In the Netherlands March 30, 1949
1 Claim. (Cl. 313—64)

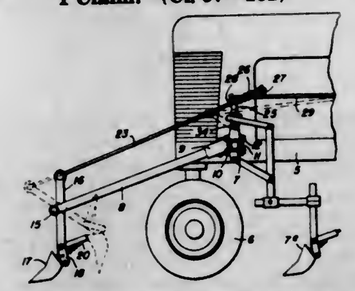
In a cathode-ray tube for television reception, a vitreous envelope therefor comprising a conical

portion flaring outwardly for supporting a screen at one end thereof and an adjoining cylindrical portion for housing an electron gun, said envelope having an internal section which is circular in the cylindrical portion and rectangular in the conical portion and having an internal section which changes from a circular section to a rectangular section in a continuous transition at the juncture of the conical and cylin-



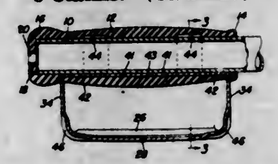
drical portions of the envelope, the external section at said juncture maintaining a circular section in a continuous transition to a larger diameter from the cylindrical portion to the conical portion of the envelope, the wall thickness at the corners of the rectangular cross-section being relatively thinner than the wall thickness of the cylindrical portion of the tube having internal and external rotational symmetry.

2,591,522
GROUND LEVELING ATTACHMENT FOR TRACTOR CULTIVATORS
Jack M. Dejoy, Paynesville, Minn.
Application August 2, 1948, Serial No. 42,078
1 Claim. (Cl. 37—181)



In a tractor having front wheels, and a transverse fixed front bar extending from opposite sides of said tractor, a pair of laterally spaced arms fixed to said bar at opposite sides of the tractor and inclining downwardly and forwardly of said wheels, a pair of laterally spaced vertical shanks between said arms forwardly of said wheels, ground leveling tools on the lower ends of said shanks in front of said wheels, respectively, a rock shaft rigidly supporting said shanks intermediate the ends thereof and journaled in said arms whereby said shanks are vertically swingable to swing said tools rearwardly and upwardly out of ground leveling position, and means to swing said arms comprising a crank arm pivotally mounted to said front bar for forward swinging, a crossbar connecting the upper ends of said shanks, a push rod connected to said crossbar and having a collar thereon engaged by said crank arm to thrust said rod forwardly, a guide on said crank arm slidably supporting the push rod, and spring means on the rod coacting with said guide to urge the rod rearwardly and yieldingly oppose swinging of said tools out of ground engaging position, and means to swing said crank arm.

2,591,523
HAND PROTECTOR GRIP
Carl W. Dick, Bend, Oreg.
Application June 6, 1950, Serial No. 166,476
8 Claims. (Cl. 2—17)



1. A hand protector grip comprising a tubular hand grip for embracing a handle, a protecting guard spaced from said hand grip to receive a hand therebetween, said guard having inturned ends secured to and embedded in and covered by said grip for uniting said guard and grip.

2,591,524
ADJUSTABLE BRAKE FOR TUBULAR FRAME VEHICLES
Alvin P. Douglas, Cleveland, and Leonard J. Walters, Shaker Heights, Ohio, assignors to The Murray Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application May 20, 1950, Serial No. 163,254
5 Claims. (Cl. 188—2)



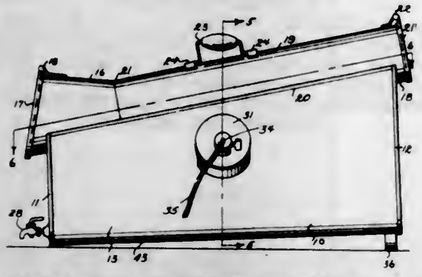
1. A brake for a tubular frame vehicle comprising a base plate conformed to the exterior curvature of a tubular member of said vehicle; a braking plate provided at its lower end with a projecting braking face adapted to engage a wheel of the vehicle when the brake is set; a pin and slot connection operatively arranged between the two said plates comprising a headed guide pin adjacent the lower end of one of the two said plates and a cooperating guide slot located near the lower end of the other of said two plates, whereby the lower end of said braking plate is held in longitudinally slidable relation to the lower end of said base plate; a brake operating plate pivotally connected to the base plate and pivotally connected to the upper end of said braking plate, said operating plate being provided with pedal portions disposed on either side of the pivotal connection to said base plate.

2,591,525
PROCESS FOR THE CATALYTIC DESULFURIZATION OF HYDROCARBON OILS
Willem Frederik Engel, Amsterdam, and Peter van 't Spijker, The Hague, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application December 21, 1948, Serial No. 66,578. In the Netherlands December 22, 1947
6 Claims. (Cl. 196—28)

4. The method for desulfurizing a hydrocarbon oil boiling above the gasoline boiling range

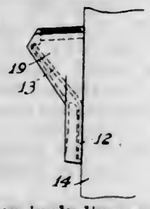
and having organically bound sulfur impurities which comprises adding to the oil to be desulfurized a lower boiling straight run fraction of a naphthenic petroleum in an amount sufficient to reduce the critical temperature of the resulting mixture to at least 20° C. below the operating temperature, then contacting the resulting mixture in the absence of added gas with a sulfactive hydrogenation catalyst at a temperature at least 20° C. above the critical temperature of the mixture and between 375° C. and 425° C. while compressed to a density of at least 0.25 g./cc., and then separating the said lower boiling fraction from the desulfurized hydrocarbon oil.

2,591,526
COMBINATION OIL COLLECTING AND DISPENSING DEVICE
Emanuel F. Fales, Sr., and Kenneth Holder, Portsmouth, Va.
Application June 19, 1947, Serial No. 755,672
1 Claim. (Cl. 222—112)



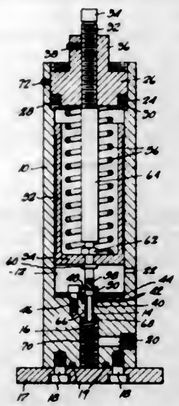
A device of the character described for draining the oil residue from oil containers, comprising an elongated body substantially triangular in cross section, a tubular housing mounted along the apex of said body at an incline to the horizontal for receiving said oil containers, means consisting of a longitudinal slot in the housing to permit the oil residue from said oil containers to drain into said body, upstanding relatively spaced projections formed in said housing at the bottom thereof on opposite ends of the slot to retain said oil containers in spaced relation to each other, a second tubular housing mounted in said body transversely thereof and below but adjacent to said first tubular housing, a heating unit carried by said second housing, a cover hingedly mounted on each outer end of said first tubular housing and means on said body for drawing oil therefrom.

2,591,527
SURFACE MOUNTED CLOSURE REMOVER WITH COVER
Max Famely, Linden, N. J.
Application February 1, 1950, Serial No. 141,815
6 Claims. (Cl. 81—3.1)



1. A bottle opener including a member having a portion to be secured to a support, and another portion extending at an angle thereto and having an aperture therein for engaging a closure cap, a casing for said member having an enlarged portion at one end for receiving the portion of said member extending at an angle and having another portion for receiving the portion of said member to be secured to a support, and means for releasably retaining said casing in locked position on said member, the lower portion of said casing being concave inwardly and providing a resilient cushion for the neck of said bottle and cap, the enlarged portion of said casing having an aperture registering with the aperture in said member.

2,591,528
PRESSURE RESPONSIVE VALVE
Edward C. Filstrup, Jr., St. Joseph, Mich., assignor to Armstrong Coalbreak Company, Benton Harbor, Mich., a corporation of Michigan
Application October 8, 1948, Serial No. 53,491
1 Claim. (Cl. 137—53)



A safety valve adapted for connection with a fluid system under high pressure, comprising a body having an elongated pasage therein open at an inlet port and an outlet port spaced lengthwise thereof, a plunger shiftable in said passage and having a sealing position and an open position, a circumferential seal carried by said body between said ports and engageable with said plunger in its closed position, a spring pressed sleeve shiftable in said passage toward said plunger to a seal engaging and protecting position when said plunger is in open position, and a spring maintaining said plunger in closed position during normal operating conditions in said system and yieldable upon application of system pressures exceeding a predetermined value, said passage having a portion of reduced cross-sectional size between and spaced from said ports, and an apertured sleeve communicating with said reduced passage portion, said plunger being shiftable to a position opening said sleeve apertures in its open position.

2,591,529
COMPRESSED AIR COAL BREAKER
Edward C. Filstrup, St. Joseph, Mich., assignor to Armstrong Coalbreak Company, Benton Harbor, Mich., a corporation of Michigan
Application March 30, 1951, Serial No. 218,330
11 Claims. (Cl. 102—25)

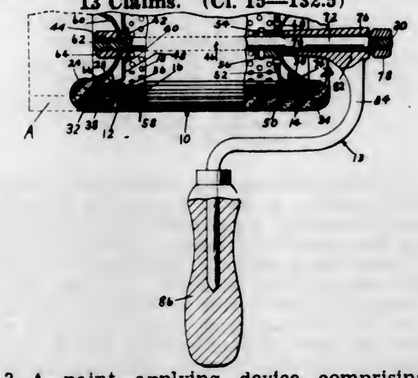
1. A coalbreaker comprising a hollow body adapted to contain gas at high pressure and having a lateral discharge opening intermediate its ends, a sleeve valve axially slidable in said

body between open and closed positions relative to said opening, a pair of annular resilient sealing members circumferentially carried by said body at opposite sides of said discharge opening and engaged by opposite ends of said sleeve valve when in closed position, a sleeve follower axially slidable in said body, means mechanically cou-



pling said valve and follower whereby said follower moves to protective engagement with one of said sealing members as said valve shifts axially from closed position toward open position clear of said sealing member, and a stop limiting axial movement of said follower in a position clear of said discharge opening.

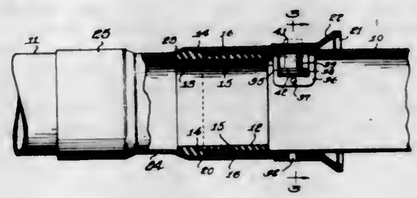
2,591,530
ROLLER PAINT APPLYING DEVICE
James P. Findley, Chesterland, and Howard J. Findley, Chardon, Ohio, assignors, by mesne assignments, of one-half to K. R. Proctor and one-half to Donald G. Gill, New York, N. Y.
Application February 16, 1949, Serial No. 76,832
13 Claims. (Cl. 15—132.5)



13. A paint applying device comprising, a hollow paint-pervious cylindrical member open at both ends, a shaft extending axially through said cylindrical member in fixed relation thereto and having a portion projecting beyond only one end thereof, an imperforate closure member on said shaft adjacent said one end of said cylindrical member and having a peripheral portion removably engaging said one end to centralize said shaft in said one end of said cylindrical member and close the end thereof, a perforated member on said shaft adjacent the other end of said cylindrical member and having a peripheral portion removably engaging said other end to centralize said shaft therein, an imperforate closure removably mounted on said shaft outwardly of said perforated member and arranged to cooperate therewith to seal said other end of said cylindrical member, and a handle journalled on said projecting portion of said shaft, said perforated member and said imperforate closure being positioned substantially within the said other end of said cylinder.

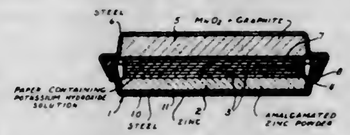
2,591,531
PIPE COUPLING
Edward W. Fishback, Orlando, Fla.
Application July 26, 1948, Serial No. 40,767
7 Claims. (Cl. 285—175)

1. A pipe coupling comprising a coupling sleeve, a tubular member having one end insertable into said coupling sleeve, a sealing sleeve arranged in the inserted end of said tubular member and projecting therebeyond for engagement with the adjacent inner surface of said coupling sleeve whereby internal pressures in the coupling device seat said sealing sleeve against the inner surface of said tubular member and against the adjacent inner surface of said coupling sleeve, a radial pin carried by said tubular member, said coupling sleeve having an angular slot to receive



said pin, said pin assuming an operative position at the inner limit of said slot, said coupling sleeve being provided at a point circumferentially spaced from said pin with a radial opening, said tubular member being provided with a radial opening aligning with the radial opening in said coupling sleeve when said pin is in operative position, and a pressure-operated pin movable into said radial openings to lock said tubular member and said coupling sleeve together when pressure is present in the coupling device.

2,591,532
DEPOLARIZER FOR PRIMARY CELLS
Abraham L. Fox, Washington, D. C., assignor to Manganese Battery Corporation, Riverdale, Md., a corporation of Delaware
Application February 1, 1950, Serial No. 141,813
7 Claims. (Cl. 136—138)

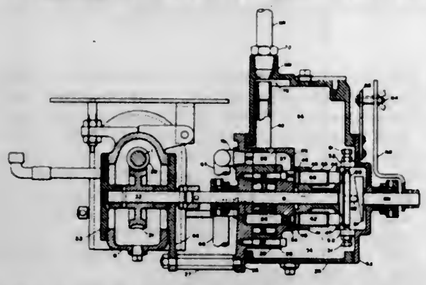


7. A primary cell consisting of a metallic anode and an electrolyte in which the anode dissolves electrochemically and a depolarizer consisting of finely divided carbon and particles of manganese dioxide passing a standard sieve having 20 meshes and remain on one having 200 meshes to the linear inch, having an electrical resistivity of 4–10 ohms per cm.^{3}, said particles being of such character that when ground to pass a standard screen having 200 meshes to the linear inch depolarizing properties when used in a Le Clanche cell at least as good as standard African ore.

2,591,533
OIL BURNER
Wilfred J. J. Fritz, Seattle, Wash., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application February 10, 1947, Serial No. 727,592
3 Claims. (Cl. 103—5)

1. In an industrial oil burner for burning heavy fuel oil, an oil control unit comprising an oil reservoir having an opening in the rear wall thereof, a rear cover plate for said opening, a

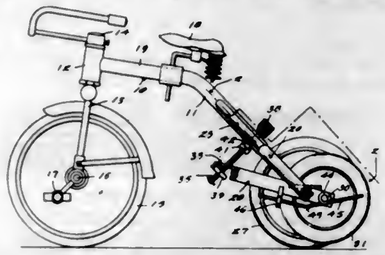
gear type positive displacement pump, a piston type positive displacement pump, a drive gear impeller for said gear pump, a cylinder barrel for said piston pump, a common shaft on which said impeller and said barrel are carried to rotate therewith, said cover comprising a rear plate for said gear pump, said cover plate having formed therein an inlet opening for oil to pass from the exterior of said reservoir through said opening to the oil pick up side of said gear impeller, a gear pump body, said body having formed therein an outlet opening for oil to pass from the discharge side of said gear impeller through said opening to the interior of said reservoir, a second plate comprising a front plate for said gear pump and a port plate for said piston pump, said port plate having an oil inlet opening from said reservoir to the inlet of said piston pump formed therein, said second plate being secured to said rear cover and spaced



therefrom by said pump body, said shaft being journalled in said cover plate and said second plate, driving means for said shaft outside said reservoir, said shaft extending rearwardly through said cover plate to said driving means and forwardly through said second plate to carry said barrel, said barrel having a hole therethrough parallel said shaft, a piston in said hole, a plane surfaced reaction plate laterally and hingedly supported on the interior of said reservoir forwardly of said barrel, means cooperating with said barrel and said piston yieldably to position one end of said barrel in operative position with respect to said port plate and the opposite end of said piston in operative position with respect to said reaction plate, cam means operable from outside said reservoir for angularly positioning said reaction plate about its hinge support, and an outlet conduit for oil to be discharged from said piston pump to the exterior of said reservoir.

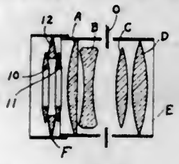
2,591,534
COMBINATION TRICYCLE AND BICYCLE
Michael J. Gallo and John W. Gallo, Jr., West Medford, Mass., assignors of one-third to John Gallo, Sr., Boston, Mass.
Original application February 14, 1949, Serial No. 76,284. Divided and this application August 25, 1950, Serial No. 181,488
4 Claims. (Cl. 280—7.15)

1. A velocipede comprising a frame structure formed of a tubular longitudinal frame bar, a steerable wheel at the front of said bar, an outer U-shaped member fixed to the rear of said bar, an inner U-shaped member fixed to said bar and to said outer member, a pair of aligned axles carried by said members, a pair of outer wheels journalled on the outer ends of said axles, an intermediate wheel, a fork for said intermediate wheel rockably mounted on the inner ends of said axles, an axle for said intermediate wheel extending through the arms of said fork, and means for angularly adjusting said fork whereby said



intermediate wheel may be extended below said outer wheels.

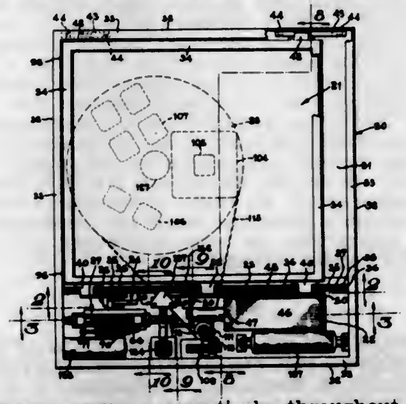
2,591,535
BALANCED OPTICAL OBJECTIVE AND FOCUSING LENS ASSEMBLY
Stephen E. Garutso, San Fernando, Calif., assignor, by mesne assignments, to Balanscope, Inc., a corporation of California
Application August 28, 1946, Serial No. 693,460
8 Claims. (Cl. 88—57)



1. In combination with a conventional photographic objective, a depth increasing balancing assembly including: a plurality of annular lenses having non-parallel, spherical optical surfaces, said lenses being coaxially positioned in front of said conventional objective, at least one of said annular lenses having an external diameter equal to that of said conventional objective and at least one other of said annular lenses having an external diameter greater than the internal diameter of said first annular lens and less than the diameter of said conventional objective and said second annular lens having an internal diameter less than that of said first annular lens whereby the cone of light through said combination is effected in a central zone by said conventional objective alone, in an outwardly adjacent zone by said second annular lens and said objective, in a next outwardly adjacent zone by both said annular lenses and said objective, and in a peripheral zone by said first annular lens and said objective.

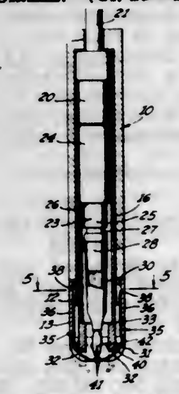
2,591,536
RECIPROCATING BUCKY DIAPHRAGM
Carl K. Gieringer and Richard Duckering, Cincinnati, Ohio, assignors to The Liebel-Flarsheim Company, Cincinnati, Ohio, a corporation of Ohio
Application January 15, 1949, Serial No. 71,074
25 Claims. (Cl. 250—62)

1. In the art of making X-ray photographs, a method of screening secondary radiations, emitted from a subject, from a photosensitive medium, the method which comprises energizing an X-ray tube to effect pulsating discharges therefrom at a given rate, and reciprocating a Bucky diaphragm over the face of a photosensitive medium in opposite directions at respectively constant velocities which are different from one another and which are non-synchronous with respect to the rate of pulsation of the discharges from the X-ray tube both of said constant ve-



locities prevailing, respectively, throughout substantially the entire range of movement of the Bucky diaphragm in said opposite directions.

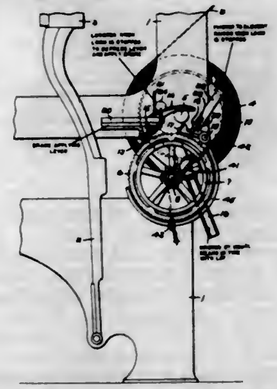
2,591,537
LIP BRUSH HOLDER WITH MANUAL RELEASE AND GRAVITY DROP
Don Gordon, Burbank, Calif., assignor to E. Manuel Stolaroff, Los Angeles, Calif.
Application December 30, 1946, Serial No. 719,296
10 Claims. (Cl. 15—184)



1. A holder for lip brushes and the like comprising a hollow casing open at one end, a carrier slidably disposed within said casing for movement between a retracted position wholly contained within the casing and an extended position wherein one end of the carrier projects from the open end of the casing, closure means for said open end of the casing comprising a pair of opposed spring strips, each of said strips being held at one end by said casing, and the free ends of said strips being movable between a normally closed position in contact with one another and a flexed open position wherein said ends are elastically bent apart, and means independent of said carrier for bending apart said free ends of the spring strips to permit said carrier to drop out to extended position.

2,591,538
LOOM TAKE-UP LET-BACK MECHANISM
Hardy B. Gosnell, Slater, S. C.
Application October 24, 1950, Serial No. 191,900
6 Claims. (Cl. 139—313)

1. In a loom take-up roll mechanism in which a ratchet toothed pick-wheel is connected to the take-up roll, in which the pick-wheel and therewith the take-up roll is advanced by a pawl operated from a moving part of the loom, and in which the pick-wheel and therewith the take-up roll is held against let-back by a detent pawl, the combination of means for controlling let-back when the pawls are released from the pick-



wheel consisting of an indicator journaled on the pick-wheel axis and yieldingly held radially against the pick-wheel teeth, a forward stop limiting the advance of the indicator by its frictional engagement with the pick-wheel, and a rearward stop limiting the retraction of the indicator by its engagement with a tooth of the pick-wheel.

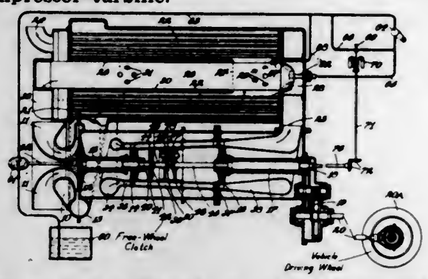
2,591,539
RESINOUS COMPOSITIONS
Sylvan Owen Greenlee, Racine, Wis., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York
No Drawing. Application October 3, 1950, Serial No. 188,269
2 Claims. (Cl. 260—45.3)

1. A composition containing substantial proportions of (1) an epoxide resin which is a polyether derivative of a polyhydric phenol containing epoxide groups and free from functional groups other than epoxide and hydroxyl groups, (2) a monobasic acid modified alkyd resin, and (3) a fusible condensate of an aldehyde with an organic ammonia derivative selected from the group which consists of amines and the amides and containing reactive hydrogen, the proportions being within the range of from about 5 to 50% of epoxide resin, from about 25% to 75% of alkyd resin and from about 10% to 25% of aldehyde condensate.

2,591,540
VEHICLE GAS TURBINE FREE WHEEL OVERDRIVE
Shadwell Harry Grylls, Duffield, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application December 1, 1947, Serial No. 789,099
In Great Britain November 29, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 29, 1966
22 Claims. (Cl. 60—39.16)

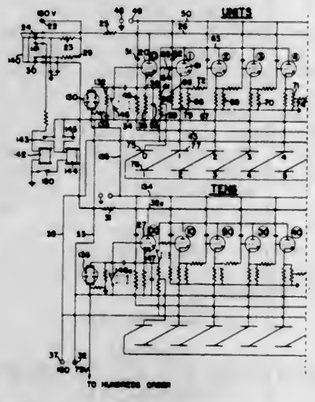
1. A gas-turbine land vehicle power-plant comprising a compressor, a turbine driving said compressor, a power turbine, land-engaging vehicle-propelling means, transmission means between said power-turbine and said propelling

means, and a coupling between the compressor-turbine and the power-turbine which coupling is operative to permit a drive to be transmitted through it only from the power-turbine to the compressor-turbine.



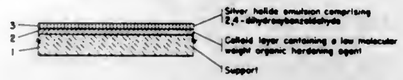
22. In a land vehicle, of the class comprising land-engaging propelling means, a compressor, a gas-turbine to drive said compressor, fuel supply means for said turbine, and control means for said fuel supply means including a speed-sensitive device arranged to control said fuel supply means to supply fuel appropriate for idling of said turbine and compressor when the speed sensed by said speed-sensitive device passes through a selected value during deceleration; the combination with said elements of a clutch between said compressor and said land-engaging propelling means and a drive connection between said speed-sensitive device and said propelling means.

2,591,541
ELECTRONIC ACCUMULATOR
Ernest V. Gulden and James A. Klopf, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application January 15, 1949, Serial No. 71,062
12 Claims. (Cl. 235—92)



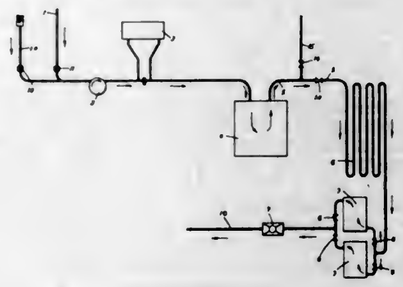
1. An electric impulse counter including, in combination, a plurality of digit-representing tubes, each having at least an anode, a cathode, and a control element; means connecting the cathode of each tube to the control element of another tube to form an operative chain and including a resistance for each cathode for controlling the control element potentials to the tubes; means coupling each control element to a common input conductor to enable input impulses to be applied to all the tubes; and means supplying anode potential to the tubes by groups, each group of which includes a plurality of adjacent tubes in the chain with the last tube of a group chain-coupled to the first tube of the next group, said anode potential supply means including the first tube in each group which, when operated, supplies operating potential to the remaining tubes of the group and including extinguishing means between the first tubes in each of the several groups to enable conduction beginning in a group to extinguish the first tube and thereby conducting tubes in a previous group in the chain, whereby on receipt of electric impulses on the input conductor the tubes in the chain will become conducting one at a time in sequence and as the action of becoming conducting leaves a preceding group and commences in the next group, the tubes in the said preceding group become extinguished.

2,591,542
HARDENED PHOTOGRAPHIC FILM OF IMPROVED PHOTOGRAPHIC PROPERTIES
Benjamin R. Harriman, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application December 16, 1948, Serial No. 65,568
6 Claims. (Cl. 95—8)



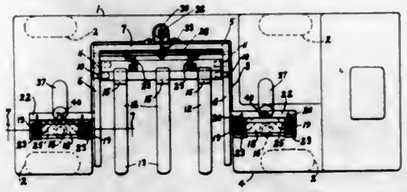
1. A photographic material comprising a support carrying a gelatino silver-halide emulsion layer containing at least one of the compounds of the group consisting of 2,4-dihydroxybenzaldehyde and a polyhydroxybenzene, said material having a layer integral therewith and adjacent to said silver-halide emulsion layer containing a low molecular weight organic hardening agent.

2,591,543
CATALYTIC TREATMENT OF INDUSTRIAL GASES
Frederick Wardle Haywood and Douglas Stuart Laidler, Watford, England, assignors of one-half to Wild-Barfield Electric Furnaces Limited, Watford, England
Original application August 30, 1945, Serial No. 613,572. Divided and this application October 28, 1947, Serial No. 782,660. In Great Britain February 28, 1945
6 Claims. (Cl. 23—2)



1. A process of removing carbon dioxide and oxygen from industrial gases comprising passing the gas over a catalyst consisting of barium carbonate extended with substantially iron-free asbestos at a suitable temperature in the region of 900° C.

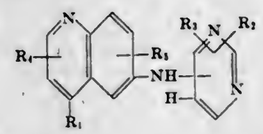
2,591,544
STACKING TRUCK
John J. Hegarty, Medford, Mass.
Application December 22, 1949, Serial No. 134,522
6 Claims. (Cl. 214—65)



1. A side delivery stacking truck comprising a truck body, a U-shaped fork-supporting member, means mounting said member on the truck body with the parallel sides of said member extending horizontally and transversely of the length of the truck and with the open side of said member facing one side of the truck body, a carriage mounted on said parallel sides of the fork-supporting member, a load-carrying fork supported by said carriage and having its tines extending transversely of the length of the truck, means to move said carriage on the parallel sides of the fork-supporting member in the direction of the length thereof between a retracted position in which the tines of the fork are located within the outline of the truck body and a forward position in which said tines are located beyond the truck body and at one side thereof, and means for raising and lowering as a unit the fork-carrying member with the carriage and fork supported thereby.

2,591,545
DI-QUATERNARY SALTS OF PYRIMIDYL-AMINOQUINOLINES
Walter Hepworth, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application February 12, 1951, Serial No. 210,631. In Great Britain March 2, 1950
13 Claims. (Cl. 260—256.4)

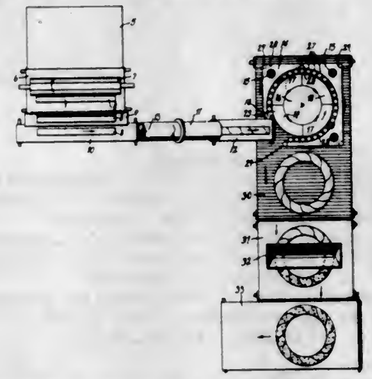
1. As new compounds, the di-quaternary salts of pyrimidylaminoquinolines of the formula:



wherein R_1 and R_2 represent radicals selected from the group consisting of amino and lower alkylamino containing from one to five carbon atoms, R_3 represents a halogen radical and R_4 and R_5 represent radicals selected from the group consisting of hydrogen and lower alkyl of from one to five carbon atoms.

2,591,546
MACHINE FOR MAKING COFFEE RINGS
Charles Hettinger, West Englewood, N. J.
Application July 18, 1946, Serial No. 684,409
9 Claims. (Cl. 107—8)

1. A machine of the class described, comprising, in combination, a rotating circular platform designed to sustain a dough-strip, a substantially circular row of kneading rollers surrounding the platform, the rollers being rotatable on vertical axes in a direction opposite to the rotation of the

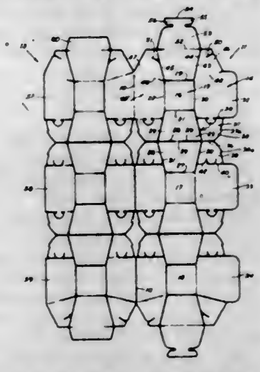


platform, and having their peripheries in vertical alignment with the outer edge of the platform.

2,591,547
VULCANIZATION OF RUBBER
Rutherford B. Hill, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Original application September 24, 1947, Serial No. 775,959. Divided and this application September 19, 1949, Serial No. 116,613
9 Claims. (Cl. 260—785)

2. The process of vulcanizing a sulfur vulcanizable rubber which comprises heating the rubber having incorporated therein a small amount of a composition prepared by treating with 0.1%–1.0% by weight based on the total composition of a base the composite heat fusion product of a 2,2'-dithio bis arylenethiazole accelerator and sulfur containing from 2 to 16 atomic weight proportions of sulfur per molecular proportion of said thiazole.

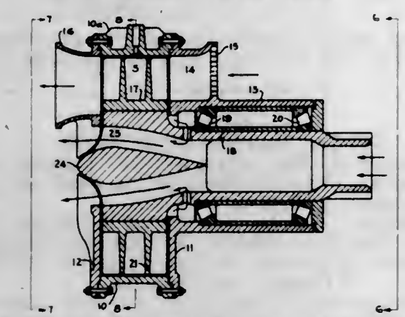
2,591,548
CELLULAR CUSHIONED CONTAINER
William H. Inman, Newark, N. Y., assignor to Bloomer Bros. Company, Newark, N. Y., a corporation of New York
Application June 2, 1947, Serial No. 751,731
5 Claims. (Cl. 229—28)



1. A carton device comprising a blank folded to form a bottom wall and opposite side walls, said bottom wall being formed at longitudinally spaced portions with upwardly buckled sections of substantially inverted V-shape forming transverse cell partitions, said transverse cell parti-

tions being outwardly and upwardly flared to provide a cushioning construction, each of said side walls being formed with inwardly folded sections inserted between the spaced walls of each of said transverse cell partitions and lugs on said inwardly folded sections engaging slits in said partitions for holding said side walls in erected position.

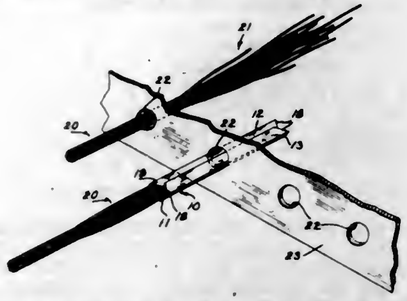
2,591,549
ROTATING CONTINUOUS COMBUSTION TYPE COMBUSTION PRODUCTS GENERATOR AND REACTION TURBINE
Frits Jonker, Delft, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application May 17, 1948, Serial No. 27,495
In the Netherlands June 4, 1947
17 Claims. (Cl. 60—39.35)



14. A reaction combustion turbine comprising a casing having an annular wall and end walls, a rotor mounted for rotation within said casing, peripheral blades on said rotor disposed helically about the rotor axis substantially to the casing wall and defining a plurality of helical working spaces between the blades and between the rotor and the casing, an air intake port in one end wall and an exhaust port in the other end wall, said ports being positioned eccentrically with respect to said rotor axis for intermittent registry with the ends of said working spaces and being positioned circumferentially so that, in the course of progressive rotation of the rotor, each working space is, successively, in registry with both ports, in registry only with the intake port, closed at both ends, and in registry only with the exhaust port, means for supplying fuel directly to said working spaces through said casing, and means for successively igniting the fuel within said working spaces.

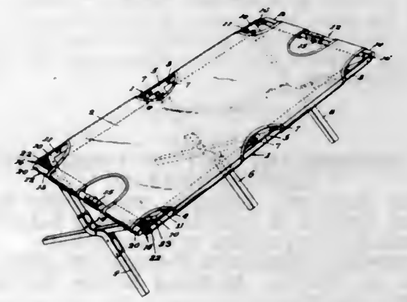
2,591,550
STRAND HANDLING TOOL
John T. Kane, St. Paul, Minn., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 26, 1948, Serial No. 46,283
2 Claims. (Cl. 175—376)

1. A tool for threading a cable end composed of loose end lengths of wires through an aperture in a panel comprising a one-piece spring steel hollow shell having throughout its length normally spaced-apart longitudinal flat wall portions having their free edges rounded and extending from opposite sides of a body portion, the ends of said wall portions being cut away and slanted inwardly from their junctures with said body portion, the body portion being adapted to receive therein loose end lengths of wires of a cable guided by said slanted end portions of said wall portions when drawn through the normal space between said wall portions, said wall portions adapted to overlap throughout their length upon a transverse contraction of



said body portion to confine the loose end lengths of wires received therein and to reduce the major dimension of the tool to permit the threading thereof with the wires through an aperture in a panel.

2,591,551
FOLDING COT
Sydney Kaplan, Trenton, N. J.
Application September 13, 1948, Serial No. 49,038
7 Claims. (Cl. 5—110)

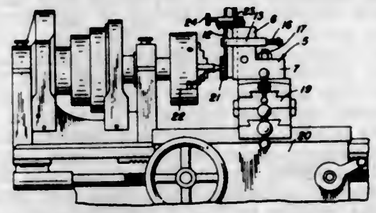


1. In a folding cot having a pair of side rails, a body supporting sheet of flexible material carried by said rails, and a plurality of pairs of crossed legs carried by said side rails with the legs of each pair pivoted to each other; a pair of end rails, each comprising two normally coaxial sections hinged together at adjacent ends, and means articulating their opposite ends to respective side rails for three-way pivotal movement, whereby when folding said cot, each of said end rails may be swung first in an arc about and axis parallel to the axis of said end rail, then its sections folded at their hinged connection and then swung to a position substantially parallel to the adjacent side rails.

2,591,552
LATHE ATTACHMENT
Leard M. Keef, De Land, Fla., assignor to Paul J. Stine, Orlando, Fla.
Application October 25, 1948, Serial No. 56,279
2 Claims. (Cl. 90—59)

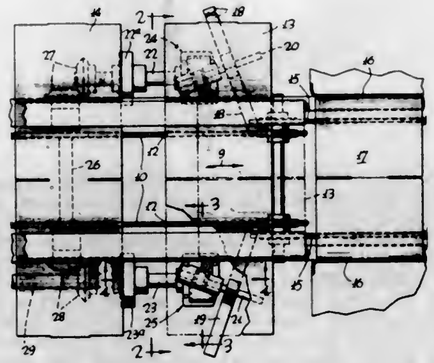
1. A work holding attachment for lathes comprising a body including a horizontal arm and a vertical arm, said horizontal arm having a bolt attaching opening for attaching to the compound rest of a lathe, said vertical arm having a transverse edge groove therein, a clamp on the vertical arm for holding work against said vertical

arm at a right angle to said groove, an index head fitting over the work and rotatable thereon



and having pins for engagement with said groove to lock said head against rotation.

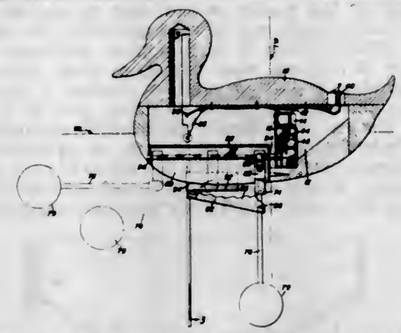
2,591,553
FOLDING DEVICE
Clayton Kemp, Merchantville, N. J., assignor to Kieckhefer Container Company, Camden, N. J., a corporation of Delaware
Application April 22, 1949, Serial No. 88,939
3 Claims. (Cl. 93—49)



2. In a folding mechanism, conveyor means for carrying blanks having foldable flaps, a folding arm arranged adjacent said conveyor means for rotary movement about an axis disposed at an acute angle to the path of travel of a moving blank said axis extending divergently from said path so that said arm is movable in the direction of movement of the blank while rotating about said axis to fold a flap on the blank, said arm being of a length to maintain engagement with the flap throughout the folding operation, a rotatable shaft associated with said arm and disposed in parallel relation to the path of travel of said blanks, means for rotating said shaft in one direction, a rocker member mounted for rocking movement about an axis parallel to said shaft, means operable by said shaft for effecting rocking movement of said member, and gear means interconnecting said arm and said member for effecting oscillatory movement of said arm to cause it to fold flaps of successive blanks.

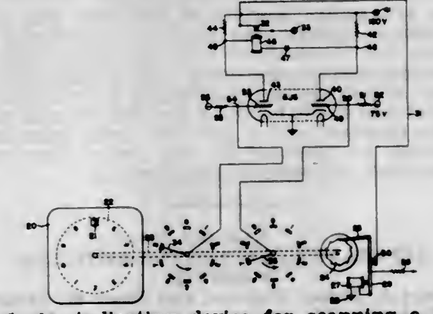
2,591,554
MECHANICAL WILD FOWL DECOY
Everett F. Kinney, Cambria, and Herman E. Myers, Milwaukee, Wis.
Application November 17, 1950, Serial No. 196,272
7 Claims. (Cl. 43—3)

6. In a decoy having a decoy body, a motor carried by said body, a double threaded screw driven thereby, a traveling block engaging said screw, a pendulous arm pivotally carried by said block and having a weight secured thereto whereby when said block is moved axially of said screw and on said screw the center of



gravity of said body is shifted, and means connected to said body and operatively connected with said arm for lifting said pendulous arm so that the weight is carried to an elevated position.

2,591,555
INDICATOR
James A. Klopf, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application May 25, 1949, Serial No. 95,360
12 Claims. (Cl. 177—337)

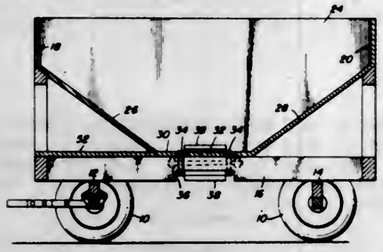


1. An indicating device for scanning a plurality of electric contacts each of which has one or the other of two possible electric potentials, including, in combination, scanning means including two brushes and an operating drive to drive both brushes together for scanning the contacts, said brushes being staggered so that two adjacent contacts are sensed at the same time as the brushes are moved thereover, one brush trailing the other by one contact; and drive control means connected to both brushes and controlled to stop the scanning means operating drive only when a predetermined one of the brushes is on a contact having a predetermined one of the two possible potentials and at the same time the other brush is on a contact having the other of the two possible potentials.

2,591,556
AUTOMATIC VEHICLE UNLOADER
Reuben Knutson, Zumbrota, Minn.
Application March 25, 1949, Serial No. 83,435
1 Claim. (Cl. 214—83.36)

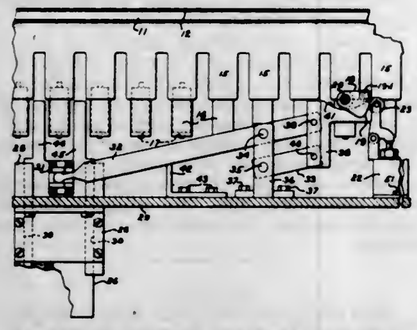
A wagon having self-loading means comprising a wagon box having front and rear vertical

end walls and vertical side walls, a floor having portions sloping downwardly from the front and rear end walls and a central portion between the lower ends of said sloping portions, an endless conveyor mounted on said central portion transversely of the wagon box, a vent in one of said side walls at one end of said conveyor, an under floor beneath one of said sloping portions, and means to operate said conveyor, said conveyor comprising a pair of endless chains, a pair of shafts having sprockets to drive and to guide said chains, and cleats terminally secured to and between corresponding links of said chains, said cleats being secured to the edges of said links adjacent to the other chain and remote from said shafts, said wagon box having longitudinal



stringers, said central portion of the floor including a panel supported by said stringers and extending longitudinally of said conveyor and on a level with and between the uprights of said endless chains, said stringers being recessed to receive said chains, said shafts being mounted in bearings on the undersides of said underfloor and said central portion of the floor, and said means to operate the conveyor comprising a prime mover connected with one of said shafts and mounted on the upper side of said underfloor, said prime mover having a drive sprocket, one of said shafts having a sprocket beneath said drive sprocket, and a sprocket chain extending through an aperture in said under floor and operatively connecting said sprockets.

2,591,557
APPARATUS FOR DIPPING ARTICLES IN LIQUID
Robert A. Kraay, Chicago, and Einer W. Larsen, Elmhurst, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 5, 1949, Serial No. 119,588
12 Claims. (Cl. 118—421)



1. An article coating machine comprising in combination a turntable having a plurality of article supporting members disposed about its periphery, a driving motor, first switch means controlled by an article on a selected one of said members to energize said driving motor during a predetermined amount of movement of the article, indexing means driven by said motor to cause a step-by-step rotation of said turntable, second switch means in parallel with said first switch means and controlled by said indexing means to continue energization of said driving motor after said movement of said article, a liquid container movable vertically to apply a liquid coating to one of said articles, a mechanical linkage carrying said container, and a cam controlled by said indexing means to actuate said linkage and thereby vertically reciprocate said container in timed relation with said indexing means.

2,591,558
FISHING LINE FLOAT
Earnest H. Kramer, Tulsa, Okla.
Application March 12, 1947, Serial No. 734,276
1 Claim. (Cl. 43—44.9)

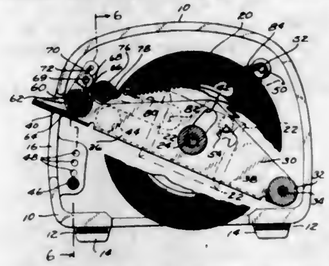


A surface fishing line float comprising a chambered body member having its lower end open and its upper end closed and dome shaped, radial vertical fins carried by said body member and terminating below the lower end of the body member, the inner edges of diametrically opposite fins below the body member being spaced apart a distance greater than the diameter of the chamber of the body member, a closure disc for the lower end of the body member, said closure disc engaging the lower edge of the body member, and having an axially disposed tubular member through which line engaging means pass, said tubular member and closure disc having vertical radial fins in the plane of and engaging the inner edges of the fins of the body member below the body member, the lower edges of the fins of the body member and the tubular member being in a plane transverse the tubular member, said tubular member extending upwardly into the chamber of the body member above the closure and an axially disposed tubular member carried by the body member and extending downwardly into the closure tubular member and anchored thereto.

2,591,559
DISPENSER FOR PRESSURE SENSITIVE TAPE
Theodore H. Krueger, Stratford, Conn., assignor to Better Packages Incorporated, a corporation of New York
Application July 16, 1946, Serial No. 683,866
14 Claims. (Cl. 164—84.5)

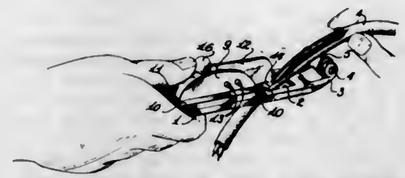
2. A tacky tape dispenser comprising a support for a supply roll of tape, an adhesion roller, a movable support for the adhesion roller permitting movement of the adhesion roller in a direction to draw tape from the supply roll and in a reverse direction, means for preventing rotation of the adhesion roller by the tension of the tape being drawn from the supply roll when the adhesion roller is moved in a direction to

draw tape, and means for taking up the slack tape between the tape supply roll and the ad-



hesion roller when the adhesion roller is moved in the reverse direction.

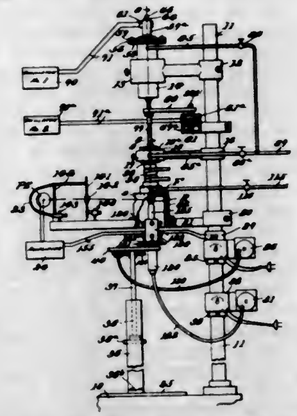
2,591,560
INSULATION SLITTING TOOL
Alfred Lavoie, Roberval, Quebec, Canada
Application June 2, 1950, Serial No. 165,613
9 Claims. (Cl. 30—91)



6. A slitting tool of the character described comprising a flat elongated solid body having adjacent one end a substantially rectangular aperture through which a cable may be passed, a handle portion integrally formed at the other end, an elongated blade carrying member slidably mounted for longitudinal displacement on said body intermediate said aperture and said handle portion, a blade member rigidly secured to said blade carrying member being inserted into a slot formed in the latter, a slitting blade portion inwardly projecting from said blade member at one end thereof and displaceable longitudinally and medially within said aperture, said body having a slot formed longitudinally and medially intermediate said aperture and said handle portion, a retaining member projecting through said slot and secured to the underside of said blade carrying member to retain said last mentioned member to said body and to limit the longitudinal displacement of the same, said body being further provided with a medial slit communicating with said aperture to receive said slitting blade portion when the same is in retracted position and a guide roller having a substantially concave peripheral surface mounted at the end of said body adjacent said aperture to receive and guide said cable through said aperture.

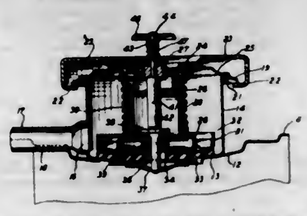
2,591,561
APPARATUS FOR PRODUCING REFRACTORY RODS
Raymond Holmes Lester, Melvin Croxall Cannon, and Frank Creighton Alexander, Jr., Pittsburgh, Pa., assignors to Elgin National Watch Company, Elgin, Ill., a corporation of Illinois
Application April 28, 1943, Serial No. 484,946
8 Claims. (Cl. 49—53)

1. An apparatus for forming rods of high-melting material, comprising a platform bearing a support upon which the rod is to be grown, means arranged to lower the platform, a blowtorch and means arranged to supply combustion gases thereto, said blowtorch being positioned above the support and arranged to deliver its flame downwardly toward the support, means arranged to supply powdery particles into the blow-



torch whereby the blowtorch is effective to project a stream of melted particles toward the support, and photoelectric means responsive to the radiation from the growing end of the rod and constructed and arranged to control the rate of movement of said platform-lowering means.

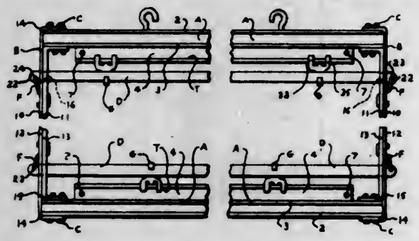
2,591,562
VEHICLE RADIATOR CAP
James T. Levell, Detroit, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware
Application May 18, 1950, Serial No. 162,716
1 Claim. (Cl. 220—44)



A pressure cap for a motor vehicle radiator having a filler neck extending upwardly from the top of the radiator, a seat within the filler neck, and an overflow tube communicating with the interior of the filler neck above the seat, comprising a cap having inturned lugs at opposite sides thereof cooperating with the upper end of the filler neck to clamp the cap thereon, a spring retainer beneath said cap, an inverted cup-shaped supporting member beneath said spring retainer, said cap, spring retainer and supporting member having aligned apertures therethrough, a hollow grommet extending through said apertures and clamping said cap, spring retainer and supporting member together, a lower spring retainer slideably mounted upon said supporting member, a bottom plate carried by said lower spring retainer, a resilient gasket beneath said bottom plate, said bottom plate and said gasket having aligned apertures therethrough, a hollow grommet extending through said last-mentioned apertures and securing said bottom plate and gasket together, a coil spring surrounding said supporting member and extending between said upper and lower spring

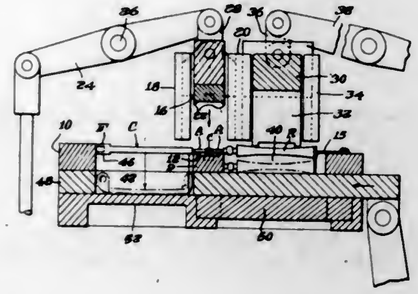
retainers and urging said gasket into engagement with the seat in said filler neck, a valve beneath said gasket for closing the aperture through said gasket and bottom plate, said valve having a shank extending upwardly through said last-mentioned apertures and having an enlarged head at the upper end thereof, a coil spring between said head and said bottom plate normally urging said valve upwardly into engagement with said gasket, a push rod positioned within said supporting member and having a portion of reduced diameter extending upwardly through said hollow grommet and a substantial distance above the upper surface of said head, a push button secured to the upper end of said push rod, a coil spring surrounding the reduced portion of said push rod and extending between said push button and said cap and normally urging said push rod upwardly until the shoulder between the upper and lower portions of said push rod seats against said first-mentioned grommet and the lower end of the push rod is spaced a short distance above the head of the valve, said push rod being effective upon depression by manual operation of the push button to depress said valve and establish communication between the radiator and the overflow tube to relieve the pressure in the radiator.

2,591,563
LOOM HARNESS WITH SLIDABLE HEDDLE BAR SUPPORT
Bernard T. Leveque, Wenham, Mass., assignor to Emmons Loom Harness Company, Lawrence, Mass., a corporation of Massachusetts
Application February 27, 1947, Serial No. 731,209
4 Claims. (Cl. 139—92)



1. A harness frame for looms, comprising a rectangular frame formed by end pieces and top and bottom stave members at right angles thereto each stave member being formed of a single integral piece of metal with a back from which top and middle longitudinal flanges extend the full length of the stave member, an inwardly extending web of less length than that of the stave member with a track formed by continuous flanges on each side along its inside edge having flat outer faces in a straight, flat plane at a transversely right angle to the faces of said web; slidable heddle bar supporting members each including a heddle bar supporting hook, a shank and fingers extending along each outer face and the top of said track and being in slidable contact therewith and with both the adjoining faces of the web; and two heddle bars supporting a plurality of heddles threaded thereon, said heddle bars extending through each end piece and through the hook of a heddle bar supporting member.

2,591,564
MOLDING AND ASSEMBLING METHOD AND APPARATUS
Carl J. Lind, Skokie, Ill., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application March 18, 1950, Serial No. 150,466
8 Claims. (Cl. 18—1)

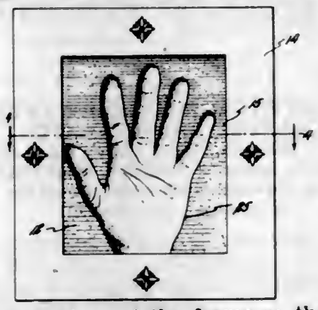


1. The method of molding and assembling together pairs of mating parts in multiple which comprises molding and hardening said parts in groups of non-mating parts in a manner whereby the parts in each group are linked together by excess hardened molding material in proper spaced relation for joining with the parts in the other group, each part of one group being dimensioned complementarily with relation to a particular part in the other group, severing the parts from the excess molding material while maintaining each part in a predetermined relation with respect to its complementary part, juxtaposing the severed parts for assembly and joining the juxtaposed parts.

7. Apparatus for assembling pairs of molded mating parts in multiple comprising a bed portion adapted to receive a unitary molded structure comprising the pairs of parts and a runner portion to which the parts are individually linked in spaced relation through feeders with the mating parts on opposite sides of the runner in predetermined alignment, individual retainer means at a level below the level of the unitary structure as deposited on the bed, said retainer means being spaced and arranged as determined by the spacing and arrangement of the mating parts in said unitary structure, the retainers corresponding to the parts on one side of said runner portion being of a depth greater than the other retainers, plunger means for simultaneously severing the parts from said feeders so that the parts are caught by said individual retainer means, means for maintaining the said predetermined opposite alignment during the severing, slide means for juxtaposing the severed parts for assembly and means for pressing the juxtaposed parts together.

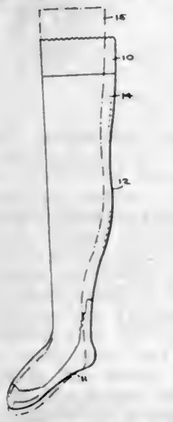
2,591,565
MANUFACTURE OF NOVEL CLAY ARTICLES
Irvin R. Linnard, Montclair, N. J.
Application February 25, 1948, Serial No. 10,881
1 Claim. (Cl. 41—24)

A method of mounting and preserving ornamental clay patterns comprising the steps of disposing a pliable clay panel in a shallow receptacle, making an impression in the panel and clamping the receptacle and panel to the rear of a frame while the clay is still soft so that the impression is visible from the front and the edges of the panel engage the surrounding



contiguous edges of the frame so that the clay hardens around the edges.

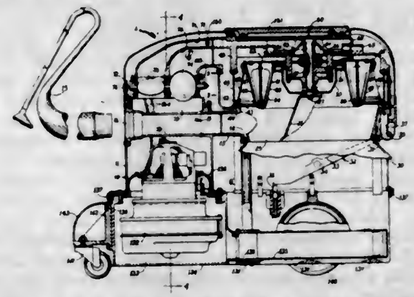
2,591,566
STOCKING AND METHOD OF PRODUCING SAME
Cyril W. Livingston, New York, N. Y., assignor to Sanson Hosiery Mills, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application November 20, 1951, Serial No. 257,205
8 Claims. (Cl. 28—72)



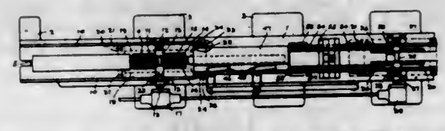
8. In a method of producing stockings knitted from synthetic polyamide yarns, the step of presetting the knitted fabric of the stocking with an aqueous medium at a predetermined temperature to permanentize the shape and relative position of all of the several interknitted loops of the fabric, in then stretching the stocking to substantially increase the wale-wise length and substantially decrease the course-wise width of all of said loops of the fabric, and in thereafter subjecting the stretched stocking to a heating medium of a temperature higher than said first-mentioned presetting temperature to permanently set all of said loops to their increased wale-wise length and decreased course-wise width.

2,591,567
VACUUM CLEANER
Gustaf Einar Lofgren, Wesskum Wood, Riverside, and Axel Peterson, Stamford, Conn., assignors to Electrolux Corporation, Old Greenwich, Conn., a corporation of Delaware
Application May 29, 1948, Serial No. 29,964
18 Claims. (Cl. 183—54)

1. In a vacuum cleaner, a dust collecting casing, an air inlet and an air outlet in the casing, a motor fan unit for producing a flow of air therethrough, means in the casing situated between the air inlet and outlet for filtering dust-laden air, means for agitating the filtering means, air driven means for producing power for operating said agitating means, and means responsive to an increase in dirt contaminating said filtering means for diverting the air flow from the filtering means to operate the air driven means.



2,591,568
MACHINE FOR CUTTING TIES OR THE LIKE
James H. Lorimer, Toronto, Ontario, Canada
Application January 22, 1949, Serial No. 72,211
8 Claims. (Cl. 143—37)



1. A machine for cutting ties or the like, comprising a pair of parallel saws each slidable relative to a center line to vary the spacing therebetween, a second pair of parallel saws spaced from said first saw pair and each slidable relative to a center line to vary the spacing therebetween, means to operate said saws, means to convey a log longitudinally first between one of said saw pairs and subsequently between the other of said saw pairs, guide means to center the log on the center lines between said saws when passing therebetween, means to effect the rotation of said log through approximately 90° about its longitudinal axis during its movement between said saw pairs whereby the cuts made on said log by one of said saw pairs are in substantially right angular relation to the cuts made on said log by the other of said saw pairs to form said log into a length of timber of substantially rectilinear cross section and means gauging the diameter of the log prior to entry between said saws and operatively connected to move the saws of each pair relative the center line therebetween in accordance with the diameter of the log gauged.

2,591,569
RING SETTING
Edwin M. Lovell, Topeka, Kans.
Application August 22, 1949, Serial No. 111,712
1 Claim. (Cl. 63—29)



In an article of jewelry, a ring, a hollow mounting member secured to said ring, said

mounting member including a bottom wall provided with an opening, spaced sidewalls projecting from said bottom wall, spaced end walls extending between said sidewalls and projecting from said bottom wall, there being a groove in the inner face of each of said end walls, a setting seated in said mounting member, said setting comprising a bottom section, a split tube projecting from said bottom section and extending through the opening in the bottom wall of said mounting member, said tube adapted to be spread apart to secure said setting to said mounting member, a top section arranged in spaced parallel relation with respect to said bottom section, there being a cutout in said top section for receiving therein a gem, converging end sections extending between said top and bottom sections, and a tongue projecting from each of said end sections and adapted to seat in the grooves in the end walls of said mounting member.

2,591,570

CUTTING OIL

Samuel Manilych, Brooklyn, and Lee L. Lambert, Flushing, N. Y., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

No Drawing. Application April 8, 1949, Serial No. 86,383

13 Claims. (Cl. 252—48.4)

1. A compound oil consisting essentially of a mineral oil base of lubricating grade containing about 0.9 per cent active sulfur and commercial hydroabietyl alcohol in amount of 0.1 to about 10% effective to increase drill life.

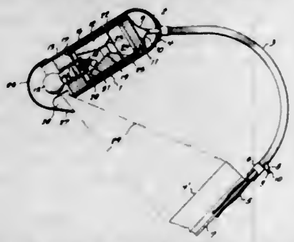
2,591,571

ELECTRIC LAMP WITH BALL SWITCH

Joseph Marino, Brooklyn, N. Y.

Application August 7, 1947, Serial No. 766,989

2 Claims. (Cl. 240—52.1)



1. In an electric lamp having a shell closed at one end, a lamp mounting in the opposite end of said shell, a cone-shaped projection extending from said mounting axially in said shell towards said closed end, a guide having throughout its length an axial central opening and fixed in said shell between said mounting and said closed end, said opening being flared toward said mounting with said cone extending into said flared portion, said opening being also flared toward said closed end, the meeting area of said flared portions constituting a cylindrical opening, said guide terminating short of said closed end, and defining a space therebetween, the diameter of said space being greater than that of the adjacent end of said opening, said space defining a chamber having a shouldered annular wall adjacent said opening, and a rigid electrically conductive ball therein of lesser diameter than said cylindrical opening and of greater diameter than the minimum distance between said cone and the first named flared portion of said opening, said flared portion and said cone being of electrically conductive material so that an electrically conductive path is formed when said ball contacts said flared portion and cone.

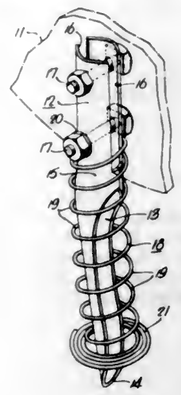
2,591,572

TURF ENGAGING ELEMENT FOR CULTIVATING APPARATUS

Thomas C. Mascaro, West Point, Pa., assignor of one-half to Anthony Mascaro, West Point, Pa.

Application November 18, 1949, Serial No. 128,085

5 Claims. (Cl. 97—52)



1. Cultivating apparatus for aerating and treating grass turf comprising a soil engaging element arranged to engage and penetrate the soil including a narrow elongated soil engaging part having wall portions defining a longitudinally extending trough therein of substantially uniform cross-sectional shape throughout its length to engage and remove an elongated plug of soil from the turf without materially compressing the surrounding turf, and means comprising a coil spring of a plurality of convolutions loosely surrounding the turf engaging part of said element with the upper end of said spring fixedly mounted to the upper end of the element, the coils of the spring extending substantially the entire length of the soil engaging part of the element and the lower end of the spring being engageable with the adjacent turf continuously during engagement thereof by said element to prevent tearing of the turf and to cause the coil spring to be progressively compressed and expanded respectively during movement of the element inwardly and outwardly of the turf thereby causing flexure of the coil relative to the soil engaging part operable to break up the plugs of soil removed thereby from the turf.

2,591,573

RESINOUS INSOLUBLE REACTION PRODUCTS OF TERTIARY AMINES WITH HALOALKYLATED VINYL AROMATIC HYDROCARBON COPOLYMERS

Charles H. McBurney, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application July 5, 1947, Serial No. 759,308

27 Claims. (Cl. 260—88.1)

22. An insoluble resinous quaternary ammonium composition suitable for the removal of anions from fluids which comprises the reaction product of (1) a halomethylated copolymer of a major proportion of a monovinyl aromatic hydrocarbon with from 0.5 to 20.0% of a divinyl aromatic hydrocarbon, the said copolymer containing an average of from 0.2 to 1.2 halomethyl groups per aromatic nucleus, and (2) a tertiary monoamine, the amount of amine being such that there is present in the reaction mixture at least one molecular proportion of said tertiary amine for each substituent halomethyl radical in the halomethylated copolymer.

2,591,574

NITROGENOUS ANION-EXCHANGE RESINS

Charles H. McBurney, Philadelphia, Pa., assignor to Rohm & Haas Company, Philadelphia, Pa., a corporation of Delaware

No Drawing. Application July 5, 1947, Serial No. 759,309

14 Claims. (Cl. 260—89.7)

1. The process of preparing anion-exchange resins wherein a haloalkylated copolymer of a mixture of an aromatic monovinyl hydrocarbon and an aromatic divinyl hydrocarbon, said mixture containing a predominant amount of said monovinyl hydrocarbon and said copolymer containing on the aromatic nuclei substituent groups of the general formula

$$-C_nH_{2n}X$$

in which n is an integer of value one to four and X is a member of the group consisting of chlorine and bromine, is reacted with an amine containing a hydrogen atom on the nitrogen atom whereby a polymeric amine salt is formed.

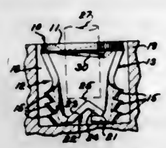
2,591,575

EXPANDIBLE FASTENER INSERT

Thomas A. McCollum, River Forest, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application April 9, 1947, Serial No. 740,423

5 Claims. (Cl. 85—2)



5. A fastener insert comprising a single sheet metal member having a top portion provided with an aperture therein, a plurality of legs extending transversely from said top portion in converging relation to each other and to the axis of said aperture and having outwardly extending teeth formed on the side edges thereof, a spreader member engaging the end portions of said legs for moving said legs radially outwardly, said spreader member comprising a plurality of radially disposed arms sloping inwardly from said legs toward said top and having a common intermediate portion disposed in axial alignment with said aperture, one of said arms being formed as a continuation of one of said legs and the radial outer free ends of the other of said arms abutting the other of said legs, and means forming an operative connection between the free ends of said arms and said legs for preventing axial displacement to said arms relative to said legs.

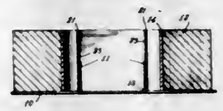
2,591,576

HOLDER FOR ROLLS OF TAPE WITH INSERTS

Frank McCormick, Nyack, N. Y., assignor to Federal Carton Corporation, North Bergen, N. J., a corporation of New York

Original application April 8, 1950, Serial No. 154,808. Divided and this application April 29, 1950, Serial No. 159,008.

3 Claims. (Cl. 206—52)



3. A holder for turnably holding a member which has a cylindrical core opening having an axis, said holder comprising a hollow axle member which has a longitudinal axis and four longitudinal side walls, said axle member being substantially square in cross-section and being adapted to be held turnably inserted in said core with said core axis and said axle axis in substantial alinement, end stop walls which are transverse to said axle axis, first and second connecting means respectively connecting said end walls to the respective ends of said axle member, each of said connecting means comprising a pair of opposed and complementary rectangular flaps whose inner edges are hingedly connected to a respective end wall, said flaps being bent on their respective hinge lines transversely to said end wall and extending into said axle, the flaps of said first connecting means being turned 90° with respect to the flaps of said second connecting means, the flaps of each of said connecting means exerting force outwardly against opposed side walls of said axle and having side edges which serve as stop means to the movement of the other walls of said insert.

2,591,577

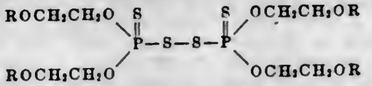
LUBRICATING OIL CONTAINING DISULFIDE DERIVATIVES OF ORGANO-SUBSTITUTED THIOPHOSPHORIC ACIDS

John P. McDermott, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application March 28, 1950, Serial No. 152,499

4 Claims. (Cl. 252—46.6)

1. A composition consisting essentially of a mineral oil product and 0.01 to 2% by weight of a compound of the formula:



where R is a hydrocarbon radical containing 1 to 7 carbon atoms and selected from the group consisting of phenyl and tolyl radicals.

2,591,578

INSULATED CONTAINER

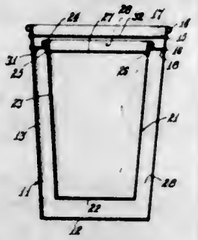
Raymond W. McNealy and Jacob A. Glassman, Chicago, Ill.

Application December 20, 1947, Serial No. 792,958

2 Claims. (Cl. 229—14)

2. An insulated container comprising, in combination, a thin walled external container having a pair of spaced apart circumferential grooves on the inside surface of its wall adjacent its open top, an annulus having its outer peripheral mar-

gin seated in the lowermost of said grooves, a thin walled internal container insertable through said annulus, an external circumferential bead surrounding the mouth of the internal container and an external annular protuberance spaced below said bead to define an annular channel between the bead and protuberance, said annular external protuberance being of such outside di-



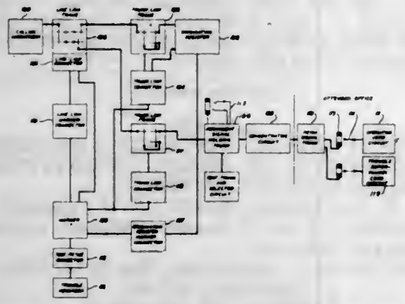
ameter as to facilitate its forced passage through the annulus so as to dispose the inner peripheral edge of the annulus in said channel, a cover for the internal container peripherally engageable in the internal groove formed by the annular protuberance therein, and a cover for the external container peripherally engageable in the uppermost groove of the external container.

2,591,579

PERMANENT-SIGNAL INDICATING SYSTEM

Joseph Michal, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 29, 1948, Serial No. 57,381
9 Claims. (Cl. 179—27)



1. In a telephone system, subscribers' lines at one office, an operator's position at said one office, an operator's position at a distant office, a permanent signal trunk circuit, means responsive to a permanent signal condition on one of said lines to connect said line with said trunk circuit, means in said trunk circuit to operate a signal at both of said positions, means under the control of either position to connect with said trunk circuit, and means responsive to such connection to prevent an effective connection of the other position with said trunk circuit.

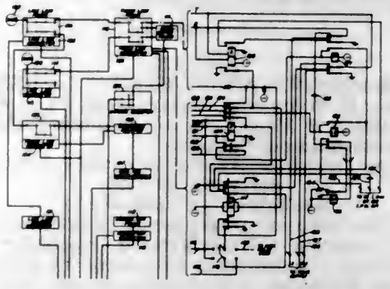
2,591,580

SPECIAL TRUNK CIRCUITS FOR TRANSMITTING TONES TO CALLING SUBSCRIBERS

Joseph Michal, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 29, 1948, Serial No. 57,382
7 Claims. (Cl. 179—18)

1. In a telephone system, subscribers' lines, automatic switches, a common control circuit for operating said switches to complete connections to and from said lines, a trunk circuit, a plurality of distinctive tone sources associated with said trunk circuit, means conditioned under the control of a calling one of said subscribers' lines to register in said control circuit the identity of said calling line and the designation representing a desired connection, means in said control circuit operated, if said control circuit fails to control said switches to complete said desired



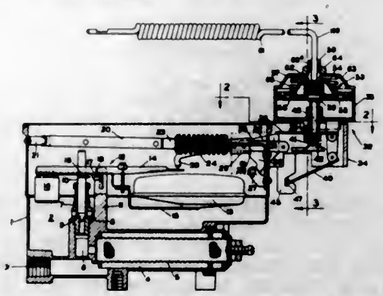
connection, including means to indicate the failure and means to identify the cause of said failure, means under the control of said failure indicating means to cause said control circuit to seize said identified calling line and said trunk circuit and to operate said switches to connect said calling subscriber's line to said trunk circuit, and means in said trunk circuit operated by said cause identifying means to selectively render one of said tone sources effective to signal the calling subscriber.

2,591,581

TRIP AND RESET MECHANISM FOR FLOAT OPERATED LIQUID FUEL CONTROLLING VALVES

Carl H. Millerwise, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application July 9, 1949, Serial No. 103,824
13 Claims. (Cl. 137—68)



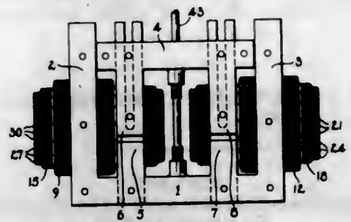
1. The combination with a trip mechanism comprising an actuating member biased for movement in one direction and a pivoted latch member restraining movement of said actuating member, the latch member being biased toward latching engagement with the actuating member and operable upon pivotal movement in one direction to release the same for movement; of a control mechanism comprising a first movable member cooperable with said latch member to pivot the same in said one direction, automatically operated means for moving said movable member, a second movable member cooperable with and operable to move said first movable member to pivot said latch member in said one direction and arranged for manual operation from a remote point, a third movable member cooperable with said actuating member and operable to move the same in the opposite direction for resetting, and said third movable member being arranged for manual operation from a remote point.

2,591,582

WELDING TRANSFORMER

Gib Monette, Chicago, Ill., assignor to Atomiko, Inc., Chicago, Ill., a corporation of Illinois

Application January 31, 1948, Serial No. 5,531
11 Claims. (Cl. 321—27)



1. In a welding transformer and the like, a closed primary magnetic core and including a plurality of legs joined by a plurality of yokes, a primary winding encircling a leg of said core, and adapted to be energized by an alternating current, a secondary winding of substantially rectangular transverse cross section telescoped over said primary winding, said secondary winding having one side of its inner circumferential wall spaced a substantial distance from the outer circumferential wall of said primary winding, a secondary magnetic core extending from the yokes of said primary core and arranged to pass axially through the space between said walls of the primary and secondary windings so as to be inductively interlinked with said secondary winding only, said secondary core comprising two parts and an air gap interposed therebetween in the path of the flux induced by said secondary winding, a tertiary winding connected in series with said secondary winding and inductively interlinked with said secondary core, and rectifying means in circuit with said tertiary winding.

2,591,583

RUST PREVENTIVE

Leonard E. Moody, Elizabeth, and James W. Hand, Jr., Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 21, 1949, Serial No. 72,099
5 Claims. (Cl. 44—69)

1. Improved leaded gasoline fuel which contains a lead scavenger agent and from about .03–5% of an alkyl diamine selected from the class of diamines represented by the following formula: $H_2N—R—NH_2$, wherein R represents an alkyl group containing from 2–5 carbon atoms.

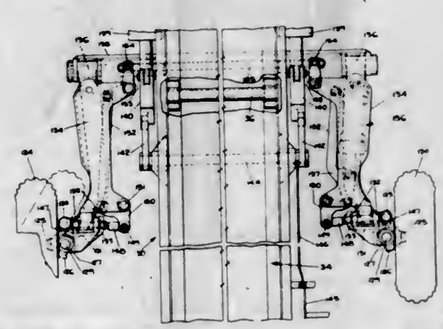
2,591,584

WHEEL SUSPENSION AND STEERING ASSEMBLY

Sterling C. Moon, Worthington, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application June 13, 1947, Serial No. 754,516
4 Claims. (Cl. 280—95)

3. A machine including a main frame, a pair of spaced steering and supporting wheel assemblies, each of said assemblies including a wheel, a spindle for said wheel, king pin and bracket means mounting said spindle for pivotal adjustment on an upright axis, parallel motion mechanism interconnecting said king pin and bracket means and said main frame and mounting said king pin and bracket means, the spindle and wheel for upward and downward adjustment relative to said main frame while maintaining the axis of the king pin upright for all positions of adjustment, means for adjusting said wheel as aforesaid, steering mechanism for said wheel including an arm rigidly connected to said spindle and extending substantially at a right angle relative thereto and at a right angle to said axis of said king pin, a bell crank lever pivotally connected to an arm of said parallel motion mechanism adjacent the king pin and bracket means, a drag link interconnecting one end of said bell



crank lever and said first named arm and having its axis generally parallel with and in the plane of the transverse axis of the pivotal connection between the parallel motion mechanism and said king pin and bracket means, an operating rod extending along said parallel motion mechanism connected to the other end of said bell crank lever and a second bell crank lever pivotally connected to an arm of said parallel motion mechanism adjacent its connection to said main frame, and a tie rod interconnecting said second bell crank lever of each wheel assembly thereby connecting the steering mechanisms of said two assemblies together, said tie rod extending near a plane passing through the pivotal axes of connection of said parallel motion mechanisms to said main frame, said tie rod being loosely connected to each steering mechanism to provide for independent raising and lowering of each wheel assembly.

2,591,585

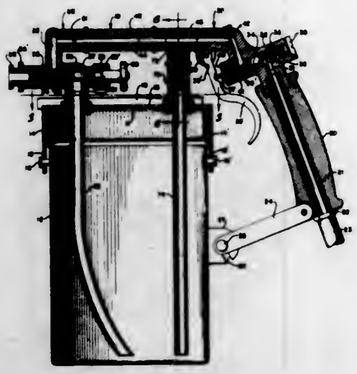
SPRAYING DEVICE

James Wesley Moore, Norfolk, Va.

Application August 14, 1947, Serial No. 768,556
1 Claim. (Cl. 299—86)

In a spray gun for the spraying of heavy plastics and the like comprising, an aspirator head assembly provided with an air passage, a conveyor nozzle and a discharge nozzle substantially coaxially disposed within said air passage to form a Venturi throat therein, a material container associated with said aspirator head assembly and having an escape vent therein, a suction tube coupled between said conveyor nozzle and said container to draw material in said container through said conveyor nozzle when a stream of air is directed through said air passage, means

supplying compressed air to said air passage, a trigger actuated check valve disposed in said air passage operative to control the flow of air therethrough, and means having a manually controlable valve therein for coupling a selected portion of the air in said air passage into said container and injecting said air into said material near the bottom of said container to maintain the material in a state of agitation, said escape vent being of a size to completely relieve pressure



on the surface of said material from the air injected therein to render aspiration of said material solely under control of flow of air through said Venturi throat, and said escape vent being coupled to tubular means extending along the top of said container and forwardly therealong, said tubular means forming a standpipe for said escape vent to prevent escape of material from within said container through said escape vent throughout any normal orientations of the spray gun in use.

2,591,586

HIGH-TEMPERATURE LUBRICATING GREASES

Arnold J. Morway, Clark Township, Union County, and Alfred H. Matuszak, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application September 30, 1950, Serial No. 187,829

17 Claims. (Cl. 252—42.1)

1. A process of preparing a lubricating grease composition having outstanding utility at elevated temperatures which comprises the steps of combining with one of two portions of a lubricating oil to be used as the liquid phase, from 1 to 4 molar proportions of a material selected from the class consisting of acrolein, acrolein dimer and mixtures of acrolein and acrolein dimer, adding to the mixture with agitation an aqueous solution containing from 2.5% to 5% by weight, based on the weight of the material of the class of a metallic hydroxide, thereafter adding from 1 to 4 molar proportions of a substantially saturated fatty acid containing from 12 to 22 carbon atoms per molecule, and additional metallic hydroxide solution to insure complete saponification of said fatty acid, raising the temperature of the resulting mixture, adding the second portion of the lubricating oil, and cooling the resulting mixture to obtain a finished grease composition.

2,591,587

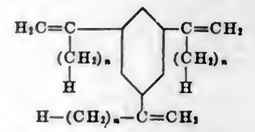
TRI-ALKENYL BENZENE

David T. Mowry, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 30, 1948, Serial No. 36,282

8 Claims. (Cl. 260—669)

1. A compound having the structural formula:



wherein n is a whole number from zero (0) to one (1), inclusive.

2,591,588

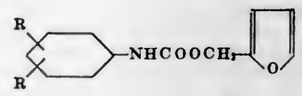
FUNGICIDAL USE OF CERTAIN FURFURYL CARBANILATES

David T. Mowry, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application February 25, 1950, Serial No. 146,393

5 Claims. (Cl. 167—33)

1. The method of protecting organic material susceptible to attack by fungi which comprises applying to said organic material, for the purpose of fungus-proofing, a fungicidal composition containing, as an essential active ingredient, a compound having the general formula



in which R is a member of the group consisting of hydrogen and chlorine.

2,591,589

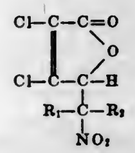
GAMMA - NITROALKYL - ALPHA,BETA - DICHLORO-GAMMA-CROTONOLACTONES

David T. Mowry, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application July 26, 1950, Serial No. 176,083

16 Claims. (Cl. 167—33)

1. Lactones having the general formula



in which R_1 and R_2 are members of the class consisting of hydrogen and alkyl radicals of from 1 to 5 carbon atoms and in which the sum total of carbon atoms in R_1 and R_2 does not exceed 6.

2. γ - Nitromethyl - α,β-dichloro-γ-crotonolactone.

2,591,590

ANTISTATIC PHOTOGRAPHIC FILM

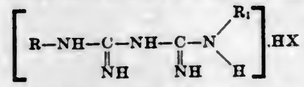
Fritz W. H. Mueller, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application December 22, 1945, Serial No. 636,966

9 Claims. (Cl. 95—9)



7. A photographic element comprising a support carrying a photographic emulsion layer and an anti-static layer comprising a biguanide salt corresponding to the following general formula:



wherein R is a member selected from the class consisting of alkyl and acyl groups of at least seven carbon atoms, R_1 is a member selected from the class consisting of hydrogen and an alkyl group of not more than 4 carbon atoms, and X is an anion of an inorganic acid.

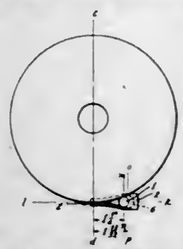
2,591,591

DIAMOND HOLDER FOR 180 DEGREE CONCAVE RADII IN GRINDING WHEELS

Walter Muench, Newark, N. J., assignor to Walter Muench, Incorporated, Newark, N. J., a corporation of New Jersey

Application March 21, 1947, Serial No. 736,222

4 Claims. (Cl. 125—39)



1. A tool adapted for presenting a diamond in position for cutting concave grooves in the peripheries of grinding wheels, said tool consisting of an elongated carrier body and an elongated mounting shank, the length centers of said body and shank bearing perpendicular relation and said shank projecting from said body adjacent one end thereof, a wheel periphery cutting diamond mounted on and projecting from the body adjacent the end thereof remote from the shank and in a direction paralleling the length center of the shank and opposite the direction of projection of said shank, said body gradually increasing in thickness from the diamond carrying end to the shank carrying end to provide side recesses in which to receive portions of wheels being grooved and thus permit said recessed body sides to closely approximate wheel peripheries during grooving thereof, and said body including a flat plate-like body having concave side edges shaped to substantially conform to the periphery of a wheel being grooved by the tool, and a depending rib increasing in depth from the diamond carrying end toward the shank and having sides spaced inwardly from and conforming in curvature to the sides of said plate-like body.

2,591,592

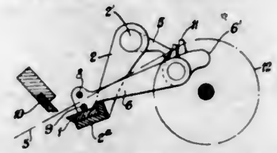
AUTOMATIC SAFETY MECHANISM FOR MECHANICALLY OPERATED CUTTING KNIVES SEVERING STRIP MATERIALS

John Irving Nasmith, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British company

Application May 18, 1948, Serial No. 27,810

In Great Britain May 20, 1947

5 Claims. (Cl. 164—43)



1. In a machine for feeding strip material to work pieces a fixed shearing member with its cutting edge disposed transversely relative to the direction of feed of the strip material through the machine, a co-operating movable shearing member, means supporting the latter shearing member for movement relatively to the other for severing the strip material in lengths, freely suspended guiding means for the strip material, and an abutment connected to said guiding means and so related positionally, relatively to the means supporting the movable shearing member, as to engage said supporting means and act as a stop preventing shearing movement of the movable shearing member towards the fixed shearing member at all times except when the guiding means is displaced by the tension of the strip material.

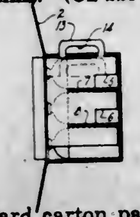
2,591,593

HANDLE FOR CARTON CARRIERS

Lester S. Nolan, Pittsburgh, Pa.

Application July 13, 1949, Serial No. 104,427

2 Claims. (Cl. 229—52)



1. In a cardboard carton partitioned for beverage bottles or the like, a handle member consisting of a partition having slots interacting with the slots of cross partitions and having one end shaped to form a handle projected at right angles to the cross partitions, the slots of said handle partition being of a width to permit sliding the partition at right angles to the cross partitions a distance to project the handle, and said carton having a slot in a side through which the handle projects in its extended position.

2,591,594

IGNITION DEVICE FOR ARC LAMPS

Pierre E. C. Nuquet, Boulogne-Billancourt, France, assignor to Maison Breguet (Societe Anonyme), Paris, France, a company of France

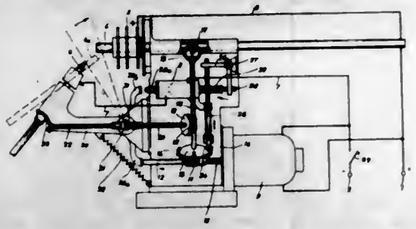
Application July 16, 1951, Serial No. 236,950

In France July 21, 1950

4 Claims. (Cl. 314—46)

1. An arc-lamp having an ignition device and a device for promoting forward motion of the electrodes for taking up the wear of same, said

electrodes being fed by a source of direct current, comprising in combination an electric motor; a support shaft associated with said motor; a worm slidably mounted on said support shaft; a worm wheel adapted to mesh with said worm; gearing means connected to said worm wheel and adapted to promote said forward motion of the electrodes; an electromagnet fed by an electric current



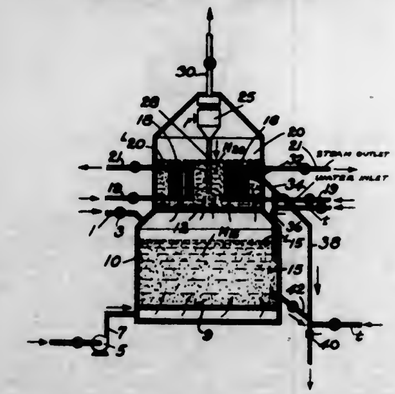
adapted to depend on the current passing through said electrodes; locking means for controlling said worm wheel; means for controlling said locking means through said electromagnet; means for pivotally supporting one of said electrodes and for promoting shifting of said last mentioned electrode towards the other one; and means for controlling said supporting means through said worm.

2,591,595

METHOD FOR CONTROLLING THE TEMPERATURE OF EXOTHERMIC REACTIONS SUCH AS THE GASIFICATION OF CARBONACEOUS SOLIDS

Henry J. Ogorzaly, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application September 29, 1949, Serial No. 118,688
5 Claims. (Cl. 48—203)



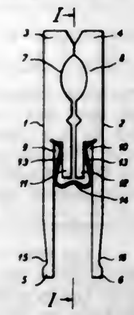
1. In the high-temperature treatment of subdivided solids with gases reacting exothermically with said solids to form a product gas and a solid reaction product in a reaction zone wherein said solids are maintained in the form of a dense, turbulent mass fluidized by upwardly flowing gases, product gas containing a substantial proportion of solids entrained is withdrawn upwardly from said mass and passed upwardly through a second fluidized solids mass maintained at a temperature substantially below said high temperature by means of heat exchange with a cooling agent and solids are returned from said second mass to said reaction zone, the improvement which comprises feeding fresh solids to said first named mass returning solids at said lower temperature from said second mass to said first named mass at a rate controlled to limit said high temperature at a desired maximum level by a direct heat exchange between said returned solids and said first named mass, withdrawing product gas upwardly from said second mass and recovering solid reaction product from said second mass independently of said product gas.

2,591,596

CLOTHESPIN

Johannes Martin Olsen, Slagelse, Denmark

Application October 31, 1949, Serial No. 124,545
In Sweden March 22, 1949
2 Claims. (Cl. 24—138)



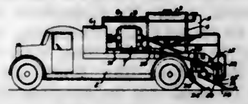
1. In a clothes peg comprising two parts, each of the said parts comprising a fastening portion provided with a clothes rope engaging groove and an opposite handling portion, and a substantially U-shaped leaf-spring keeping the two parts assembled together, a preformed longitudinal slit in the approximate middle inside portion of each of said parts and extending in the direction of the fastening portion through the whole depth of the said portion, said slit forming an elongated projection extending longitudinally from the appertaining part of the peg in the direction of the handling portion of the same, the substantially U-shaped leaf-spring engaging the said projections so as to keep the two parts assembled together, the legs of the said spring being bent in such a manner that in each slit they bear against the outerwall of the slit near the top and bottom thereof and bear against the inner wall of the said slit at an intermediate point thereof, but not otherwise touching the walls of the slit, the extremities of the spring legs being of such a length and bending to cut slightly into the outer wall of the slits.

2,591,597

ELECTRIC WEED-KILLING APPARATUS

Fred W. Opp, Costa Mesa, and Walter H. Opp, Altadena, Calif.

Application August 29, 1949, Serial No. 113,001
7 Claims. (Cl. 47—1.3)



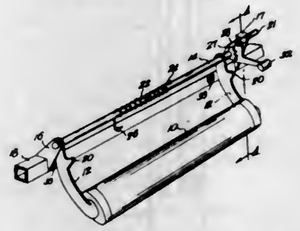
7. An apparatus for treating soil and weeds in situ which comprises, a vehicle, means for generating a source of electrical potential mounted on said vehicle, means connected to said vehicle for grounding one side of said potential to the soil over which it passes, a liquid container on said vehicle insulated from the ground side of said potential, a plurality of spray pipe sections supported by said vehicle spaced shortly above the soil, means for automatically in succession connecting said spray pipe sections to said liquid container, and means for connecting said electrical potential to said spray pipe sections, the connection between said container for liquid and spray pipe sections including a valve for each spray pipe section having a separate connection with said liquid container, and mechanically cam actuated means for successively operating said valves.

2,591,598

ADJUSTABLE FOOTREST

Robert N. Owler, Westminster, Mass., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts

Application April 13, 1949, Serial No. 87,214
4 Claims. (Cl. 155—171)



1. A rocking foot rest for connection to the lower rear of a vehicle chair and adapted to rock from a position beneath the chair to an elevated position to the rear of the chair; having in combination, a helical torsion spring adapted to urge the foot rest upward, the said torsion spring counterbalancing the foot rest when the latter is in the depressed position but allowing a slow downward movement of the foot rest when the latter is in the horizontal position, and means including a gear segment and spring operated pawl for arresting the downward movement of the foot rest in a plurality of positions of elevation, the pawl constructed and arranged to bear with increased spring compression upon the gear segment when the foot rest is in the depressed position restraining the same from rocking aimlessly.

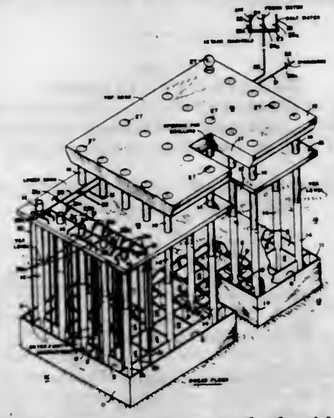
2,591,599

STRUCTURE FOR DRILLING WELLS IN DEEP WATER

Mercer H. Parks, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application August 25, 1949, Serial No. 112,237
4 Claims. (Cl. 61—46)

1. A structure adapted for drilling wells in deep water which comprises a barge defining first outer watertight compartments arranged along first parallel sides thereof, second outer watertight compartments arranged along second parallel sides thereof and inner watertight compartments surrounded by said outer compartments, tubular columns vertically arranged on said barge defining vertical passageways extending therethrough, a platform supported by said tubular columns, a first and second pipe manifold arranged on said barge fluidly communicating with said compartments, means for controlling said manifolds from said platform, a plug disposed in said tubular columns adjacent said platform, first valved means disposed in said tubular column adjacent a lower end thereof and adapted to be controlled from said platform, and second valved means arranged in an inlet and an outlet line for said tubular columns fluidly communicating



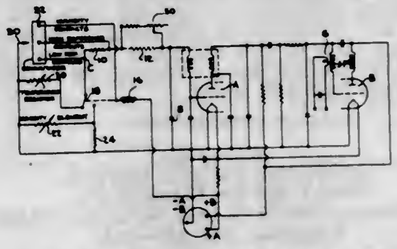
therewith adjacent an upper end of said tubular columns, said platform and said barge defining openings arranged one above another through which a drilling operation may be conducted.

2,591,600

RADIOSONDE CALIBRATION METHOD

Charles B. Pear, Jr., College Park, Md., assignor to Washington Institute of Technology, Washington, D. C., a corporation of Delaware

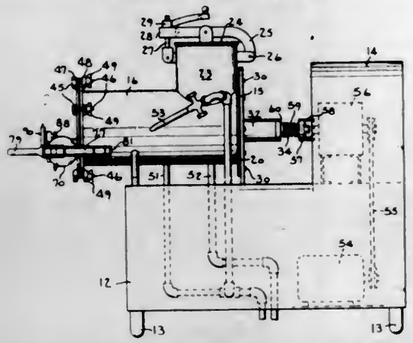
Application November 26, 1948, Serial No. 61,970
1 Claim. (Cl. 73—1)



In a radiosonde comprising an audio oscillator, an adjustable scale indicator on which the output frequency appears as a function of the sum of a first grid circuit resistance and a temperature sensitive resistor, so arranged that the grid circuit may cause the first grid circuit resistance alone or may comprise the first grid circuit resistance plus the temperature sensitive resistor and where the temperature sensitive resistor departs from a predetermined standard temperature-resistance relation by a constant percentage of a standard resistance at every temperature, the method of calibrating the device to standard values of resistance at every temperature comprising the steps of obtaining an oscillator output frequency indication which constitutes a first reference point wherein the oscillator grid circuit comprises the first grid circuit resistance alone, adding sufficient resistance to the first grid circuit resistance so that the frequency output of the oscillator, which includes the temperature sensitive resistor, represents a true temperature as compared to a standard temperature-resistance curve for such resistors, obtaining an oscillator frequency output with the added resistance to the first grid resistance but

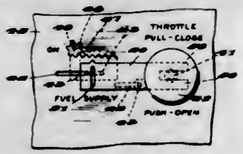
not including the temperature sensitive resistor in the grid circuit, to obtain a second reference point on the indicator, and adjusting the indicator scale to make the scale value of the first reference point coincide with the second reference point.

2,591,601
BARREL TYPE COOKER
Norman J. Peters and Warren Bradley, Fond du Lac, Wis., assignors to Damrow Brothers Company, Fond du Lac, Wis., a corporation of Wisconsin
Application October 17, 1949, Serial No. 121,772
3 Claims. (Cl. 259—9)



1. In a cooker, the combination of a horizontally disposed barrel having end plates, one of said end plates being slidably and pivotally hinged to said barrel and carrying a bearing, a rotatable feed screw having one end mounted in said bearing from which it is removable on the sliding movement of said end plate and the other end journalled in and slidably removable from the other of said end plates when said first named end plate is swung outwardly on its hinged pivot away from said barrel.

2,591,602
AIRPLANE SAFETY DEVICE
Matt V. Pilcher, Sarasota, Fla.
Application March 27, 1946, Serial No. 657,555
8 Claims. (Cl. 137—144)



1. A safety device for an airplane of the type having a longitudinally reciprocable throttle rod for controlling the speed of the engine of the airplane and longitudinally movable from a closed or engine idling position to a substantially open position permitting take-off of the airplane, a fuel line for supplying fuel to the engine of the airplane, a valve in said fuel line, and means for moving said valve to open and closed positions; said safety device comprising an interlock controlled by the movement of said valve-moving means, which, in the closed position of said valve, intercepts said longitudinally reciprocable throttle rod in its closed or engine idling position and prevents its longitudinal movement to said substantially open take-off position, and which, when said valve has been opened and said throttle has been moved to its substantially open position, is incapable of preventing longitudinal movement of said throttle to its closed or engine idling position.

2,591,603
PLUG CATCHER AND INDICATOR
Thomas M. Ragan, Downey, Calif., assignor to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application July 25, 1946, Serial No. 686,087
11 Claims. (Cl. 166—1)



1. A device of the character described connectable to a tubular string through which a flexible plug may be pumped, including a tubular chamber larger than said plug to permit bypassing of fluid therearound when said plug is positioned in said chamber, a tube projecting into the upper end of said chamber and having means at its lower end engageable with the upper end of said plug to prevent upward pumping of said plug from said chamber, and means in the lower end of said chamber and engageable with said plug to prevent downward passage of said plug from said chamber.

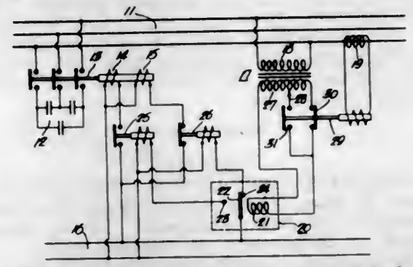
2,591,604
PREPARATION OF NAPHTHALENE-METHYLOL ESTERS
Richard A. Reck, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application April 3, 1948, Serial No. 18,860
8 Claims. (Cl. 260—410.5)

1. Fatty acid esters of polynuclear condensed aromatic methanols in which the only linkage between the aromatic nucleus and substituents on the aromatic nucleus are carbon to carbon bonds and in which the acyl radical has from 12 to 30 carbon atoms.

2,591,605
ELECTRIC POWER SUPPLY SYSTEM
Frank M. Reed, Elton, Pa.
Application October 20, 1947, Serial No. 780,901
7 Claims. (Cl. 323—106)

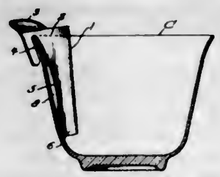
1. In an electric power supply system, a power supply line, at least one capacitor, electrically-operable switching means for connecting said capacitor to said line or for disconnecting said capacitor from said line, means including a contact-making voltmeter for actuating said switching means according to the magnitude of the voltage

supplied to said voltmeter, a potential transformer connected to said line and including an output circuit providing a voltage whose magnitude is proportional to the line voltage, a current transformer connected to said line for deriving therefrom a current whose magnitude is proportional to the load current of said line, voltage varying means included in said output



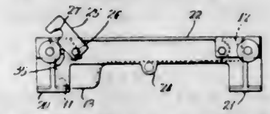
circuit, means including a current-operated relay operable by the derived current for actuating said voltage varying means to vary the voltage in said output circuit in response to different load conditions on said line, and means for applying the voltage of said output circuit to said voltmeter, whereby to control the connection and disconnection of said capacitor according to the voltage and load conditions on said line.

2,591,606
TEA BAG HOLDER
Frank C. Reed, Williamsport, Md.
Application May 15, 1950, Serial No. 161,949
1 Claim. (Cl. 99—316)



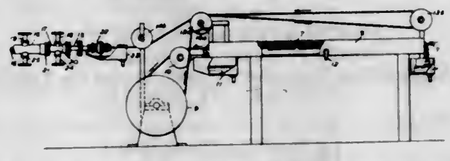
A bottomless holder for a tea bag comprising a single sheet of material shaped to provide an elongated rigid central body portion, a pair of rigid wings extending therefrom and forming angles greater than acute angles therewith, each wing having a wide upper portion provided with a lower edge, a relatively narrow middle part, having a longitudinally-extending edge, a lower end portion appreciably narrower than the upper portion and wider than the middle part, a tab extending outwardly from the upper end of said upper portion, and a cup edge-accommodating slot in said upper portion, said slot extending upwardly from and opening into said lower edge and extending upwardly toward said tab with the end of the slot adjacent said tab, the width of said slot, throughout the length of said slot, being appreciably greater than the thickness of the wall of a teacup at the upper edge portion of said wall when said holder is mounted upon said wall and a part of said wall is within said slot, and the longitudinal axis of said slot forming an acute angle with the longitudinal axis of said central body portion, whereby said holder is mounted upon a teacup wall with portion of said wall within said slots and extending to the inner ends of the slots, the lower portions of said wings resting upon the inner face of said wall and said longitudinally-extending edges of said middle part spaced from said inner face, to provide spaces, and said holder is rocked by moving said tabs, said central body portion will move away from said inner face and the width of said spaces will increase.

2,591,607
MOLD
William D. Rich, Elgin, Ill.
Application August 23, 1950, Serial No. 181,033
4 Claims. (Cl. 25—121)



1. A mold for making cement silo staves and the like, comprising a sheet metal pan open at each end and having upturned sides with the bottom contour of the pan corresponding to that of one of the stave sides, tongue and groove sticks mounted longitudinally within the pan along the upturned sides thereof, one of said sticks presenting a convex face toward the pan center line, and the other a concave face, guide rods secured to opposite sides of the pan on the outside thereof and projecting beyond the ends thereof, an end gate mounted on said rods at each end of the pan and slidable lengthwise thereof toward and away from the pan ends, and means for clamping the end gates against the ends of the pan, said clamping means including a hand nut and a pivoted spacer interposed between the hand nut and the end gate.

2,591,608
APPARATUS FOR COVERING ELECTRIC CONDUCTORS AND CABLE CORES WITH RUBBER OR SIMILAR MATERIAL
Arthur Bruce Fraser Gillespie Richardson, Eustace Tunnicliff, and Ivan Kenneth Fisher, Leigh, England, assignors to British Insulated Callender's Cables Limited, London, England, a British company
Application September 21, 1949, Serial No. 116,996
In Great Britain October 11, 1948
2 Claims. (Cl. 18—6)



2. Apparatus for applying a covering of rubber to and vulcanising it on a core of great length, comprising in combination with a screw extruding machine for applying a rubber covering to the core and a long tubular vulcanising chamber provided with sealing means at its inlet and outlet ends and adapted to contain fluid under high pressure for vulcanising the covering as the covered core passes through it, an open trough, located between said extruding machine and the inlet end of said vulcanising chamber, for containing cooling liquid, means for metering the core through said extruding machine and through cooling liquid in said trough, at constant speed and under constant tension, comprising a metering-in haul-off device for acting upon the core before it enters the said extruding machine and an intermediate haul-off device for acting upon the liquid-cooled, rubber-covered core before it enters said vulcanising chamber, a cool-

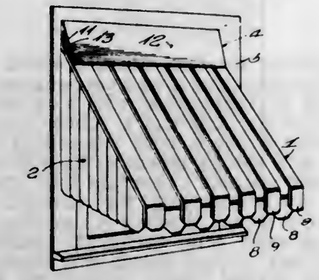
ing tube forming a continuation of said vulcanising chamber, a sealing gland at the outlet end of said cooling tube whereby said cooling tube is adapted during the passage of the rubber covered core there through to contain cooling liquid under substantially the same pressure as that of the fluid in the vulcanising chamber, a haul-off device for hauling the covered core through said vulcanising chamber and said cooling tube, and means for varying the relative peripheral speeds of the work-engaging surfaces of the three haul-off devices over a small range to suit the size and type of covered core being produced.

2,591,609
POULTRY FEEDING APPARATUS
Philip B. Roberts and Thomas B. Button, Durham, Conn.
Application June 19, 1950, Serial No. 168,916
24 Claims. (Cl. 119—51)



1. In a poultry feeding apparatus, the combination of a longitudinally extending feeding trough, an endless openwork chain movable through the trough and guided for movement along an elevated path beyond the forward end of the trough, means extending from the forward end of the trough and located immediately below the portion of the chain in the said elevated path for supporting feed being moved by the chain along the last said path, the said feed supporting means having a terminal edge so that feed moved by the chain is disengaged therefrom by gravity at or beyond the said edge, means for supplying power to the chain to drive it in the forward direction, and means for supplying feed to be moved by the chain along the said trough.

2,591,610
VENTILATED METAL AWNING
Grady P. Robinson, Tampa, Fla.
Application December 9, 1946, Serial No. 714,937
7 Claims. (Cl. 20—57.5)



1. A ventilating awning made of suitable sheet material, said awning comprising one roof section and two substantially triangular end sections located directly beneath the side edges of the roof section in combination with a combined shield and flue extending across the upper end of the roof section and secured thereto, said combined shield and flue having open end portions and an open bottom portion thereby avoiding any obstructions to the free flow of air therethrough, said roof section and said end sections being suitably corrugated, the end sections having upright corrugations and some of said corrugations being provided with upright slots constituting air vents, the upper portions of the upper ends of said roof corrugations being cut away to define venting recessed portions in direct communication with the open bottom of said combined shield and flue, said recessed portions defining vent openings, said vent openings being substantially as wide and as long as each corrugation is wide.

2,591,611
CHLORINE CONTAINING COMPOUNDS
Sidney D. Ross, North Adams, Mass., assignor to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
No Drawing. Application October 5, 1948, Serial No. 52,981
2 Claims. (Cl. 260—618)

1. 1-Pentachlorophenyl-butadiene-1,3.
2. Pentachlorophenyl allyl carbinol.

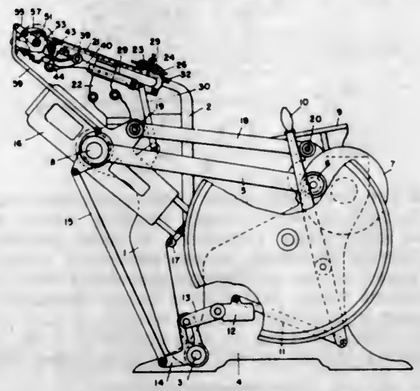
2,591,612
TOP ROLL ASSEMBLY
Oliver R. Rowe, George Schoeneck, and William J. Stolp, Charlotte, N. C., assignors to R. H. Bouligny, Inc., a corporation of North Carolina
Application February 7, 1948, Serial No. 7,006
12 Claims. (Cl. 19—142)



3. A top roll assembly for spinning frames and the like comprising a tubular shaft member forming a mandrel and adapted as a reservoir for lubricant, sleeves carrying spinning cots disposed for rotation on said tubular shaft member, and lateral openings extending through the walls of said tubular shaft member adjacent the longitudinal center of said sleeves as well as adjacent both of the end portions thereof for feeding and return of lubricant between the reservoir formed by said tubular shaft member and the interior surface of said sleeves, the openings adjacent said sleeve end portions extending upwardly from said reservoir and being unobstructed.

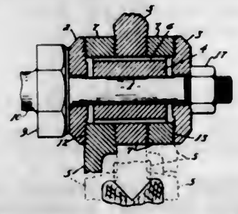
2,591,613
INKING MECHANISM FOR PRINTING PRESSES
William C. Rupp, Parma, Ohio, assignor to The Chandler & Price Company, Cleveland, Ohio, a corporation of Ohio
Application May 3, 1947, Serial No. 745,693
7 Claims. (Cl. 101—361)

6. In inking mechanism for platen presses having a main frame, a bed member mounted for oscillation toward and away from such main frame, a roller frame pivotally mounted on such bed member for oscillation relative thereto, a link pivotally interconnecting such main frame and roller frame operative thus to oscillate the latter toward such main frame when such bed member is rocked away from such main frame and away from such main frame when such bed member is rocked toward such main frame, throw-off means operative to shift the arc of oscillation of such bed member away from such main frame and thus correspondingly to shift the arc of oscillation of such roller frame relative thereto, a fountain roller carried by such bed member above such roller frame, a ratchet adapted to turn such fountain roller, and a pawl adapted to drive such ratchet; a link pivotally interconnecting such roller frame and pawl adapted to reciprocate the latter in response to such oscillation of such roller frame, the point of pivotal connection of said latter link to such roller frame being located closely adjacent and above such pivotal mounting of the latter when



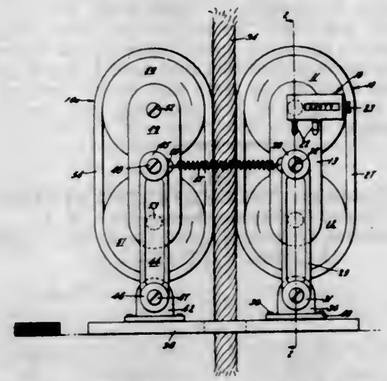
such roller frame has been thus oscillated toward such main frame, whereby the arc of oscillation of such point will be shifted toward such main frame and the extent of reciprocation of said latter link will be accordingly reduced when such bed member is in throw-off position, thus reducing the throw of said pawl, and the spacing of adjacent teeth of such ratchet being only slightly less than the throw of such pawl during normal operation of such press but greater than the throw of such pawl as thus reduced so that such reduced throw of such pawl during throw off of the press will be ineffective to operate such ratchet.

2,591,614
ROTARY CUTTER HEAD WITH SLOTTED BIT SEATS
Elmer P. Sacrey, Syracuse, N. Y.
Application March 21, 1950, Serial No. 150,859
2 Claims. (Cl. 144—230)



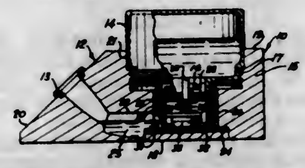
2. A shaper cutter unit comprising a spindle having end disks thereon, a cylindrical blade holder sleeved on the spindle between the end disks and formed with a lengthwise peripheral slot opening through the ends of the holder, the slot having parallel side walls, interchangeable axial spacer and cutter blocks fitting into the slot, said axial spacer and cutter blocks in the slot having a total axial width greater than the axial length of the cylindrical blade holder, the disks, axial spacer blocks and the cutter blocks having interlocking projections to hold the blocks from radial displacement out of the slots, means on the spindle for clamping the disks against the spacer blocks and the cutter blocks, and the blocks against each other, and also to clamp the disks for rotation with the spindle, the interlocking means comprising ribs located in concentric circles on the opposing faces of the disks, and complemental arcuate ribs on opposite edges of the adjacent spacer and the cutter blocks.

2,591,615
ROLLING CONTACT MEASURING DEVICE
Adrian F. Saff and Daniel W. Uber, Kane, Pa.
Application December 14, 1949, Serial No. 132,824
2 Claims. (Cl. 33—129)



1. A measuring device comprising a base member having a slot therein for receiving the material to be measured, spaced standards pivotally mounted on said base member on each side of said slot and extending upwardly therefrom, an elongated plate pivotally mounted intermediate its ends on the upper end of each of said standards, a wheel mounted on each end of said plate, the wheels on both plates being aligned and the wheels on each plate having an endless belt connecting the peripheries thereof, the adjacent runs of said belts being spaced to permit the material to be measured to pass therebetween, and resilient means for urging both of said belts against said material.

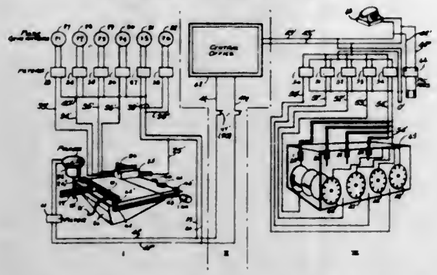
2,591,616
DESK TYPE PENHOLDER AND INKSTAND
Jose Sanchis, Newark, N. J.
Application January 21, 1950, Serial No. 139,887
1 Claim. (Cl. 120—59)



An ink stand having a downwardly directed opening for the inverted insertion of an ink bottle, the opening being divided into an upper and a lower portion by a constricted passageway in which the neck of the bottle is downwardly inserted, and the lower portion of the opening communicating with a receptacle for a pen nib; the improvements comprising a valve for the neck of the bottle, the valve comprising a coupling, one end of the coupling being removably disposed on the neck of the bottle with the free end down-

wardly directed toward the lower portion of the opening, a guide transversely disposed in the coupling intermediate the ends thereof, the guide having a central opening along the longitudinal center line of the coupling, a valve housing removably disposed on the free end of the coupling, the free end of the housing having a valve seat formed around the inner surface of a constricted opening aligned with the central opening in the guide of the coupling, a valve disposed in the housing coacting with the seat, a stem for the valve, one end of the stem being slidably disposed through the central opening in the guide of the coupling with the opposite end slidably disposed through and extended below the valve seat for operable engagement with the bottom of the lower portion of the opening in the ink stand when the ink bottle is inserted, a three-point guide coacting with the inner surface of the valve housing disposed on the valve stem intermediate the valve and the guide of the coupling, and a spiral spring disposed around the stem and under tension between the guide of the coupling and the three point guide.

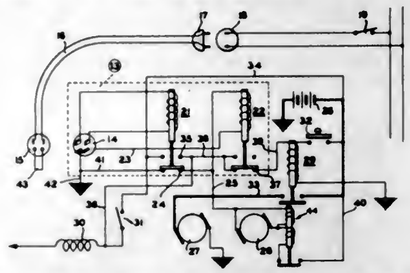
2,591,617
AUTOMATIC TELEMETERING SYSTEM
Henry C. Savino, Jersey City, N. J.
Application October 4, 1947, Serial No. 777,999
13 Claims. (Cl. 177—351)



1. A meter for reading quantities, solenoid operated indicating devices associated with said meter and operable to positions determined by the reading of said meter, a recorder associated with said indicating devices, means associated with said recorder for sending electrical impulses of different frequencies to said indicating device, said indicating devices having means for causing pulses of said different frequencies to be returned to said recorder, said recorder having devices for printing upon a strip received intelligence in the form of pulses from said indicating devices.

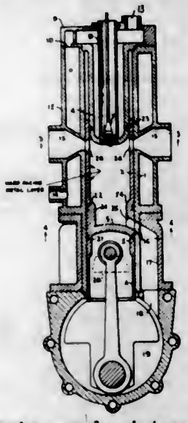
2,591,618
REMOTE STARTING CONTROL FOR INTERNAL-COMBUSTION ENGINES
Jack W. Schaeffer, Youngstown, Ohio
Application February 14, 1949, Serial No. 76,291
4 Claims. (Cl. 290—37)

1. In a starting system for a vehicle engine having a starting motor, a battery, a generator, an ignition circuit, conductors connecting said battery and said starting motor, and a solenoid operated switching relay having contacts interposed in at least one of said conductors for controlling the flow of current from said battery to said starting motor, the combination of a quick-detachable electrical connector having one part attached to the vehicle and the other part attached to a line cord, a line conductor interconnecting said line cord with a remote control station, said control station including means to furnish electrical energy to said line cord and connector, a second solenoid operated switching relay carried on said vehicle having an energizing circuit leading from said connector part attached to the vehicle, an energizing circuit on said vehicle for said first mentioned relay including control contacts carried by said second mentioned relay to be closed upon energization thereof to thus en-



ergize the first mentioned relay and cause starting current to flow to said starting motor, and means electrically connected to said generator and having normally closed switching contacts interposed in the energizing circuit of said first mentioned relay, said means being operative in response to a predetermined output of said generator upon starting of said engine to open the energizing circuit of said first mentioned relay.

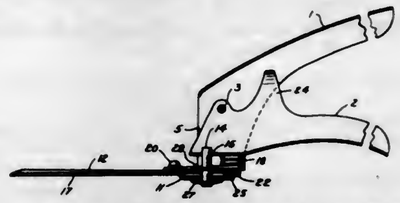
2,591,619
TWO-STROKE CYCLE INTERNAL-COMBUSTION ENGINE WITH SLIDE VALVE
Johannes T. M. Schlamann, Delft, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application January 24, 1949, Serial No. 72,516
In the Netherlands February 6, 1948
12 Claims. (Cl. 123—73)



1. A two-stroke cycle internal combustion engine having a cylinder; a reentrant cylinder head spaced from the cylinder wall to provide an annular recess; axially displaced inlet and exhaust ports in said cylinder wall; a piston in said cylinder having a slightly convex upper face which rises from the margin thereof to a radially inner crown by a height which is less than the radius of the piston face; a slide valve extending above said piston face and carried by said piston disposed to control said exhaust port, shaped to enter said annular recess, and having a thickened portion near the upper face of the piston to reduce the internal diameter of the

slide; and a plurality of inlet ducts in said slide valve extending through said thickened portion located for registry with said inlet ports and having the projections of their center lines onto a plane perpendicular to the center line of the cylinder tangent to a circle smaller than the internal diameter of the thickened portion of the slide valve and drawn about said center line of the cylinder, and having their inner ends inclined upwardly.

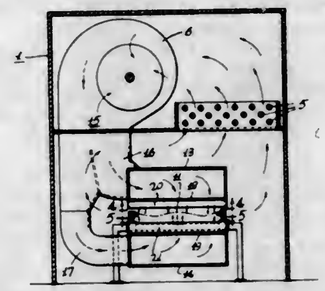
2,591,620
GRASS SHEARS
Carl Sekely, Salem, Ohio
Application January 21, 1948, Serial No. 3,534
2 Claims. (Cl. 30—248)



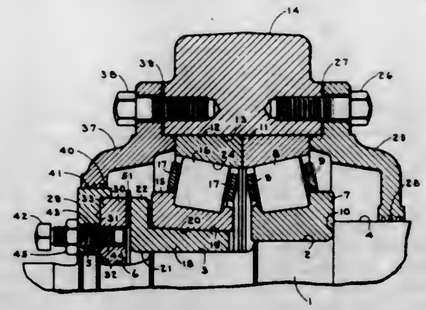
1. In a shears, a pair of superimposed blades formed with co-acting longitudinally extending cutting edges along their front ends, a transversely disposed pin through said blades pivotally connecting said blades together adjacent but spaced from their rear ends, said pin having an end portion extending beyond the planes of said blades, and having a pair of flanges thereon between which said blades are disposed, pivoted actuating handles for said blades including one handle member having legs pivotally connected to the respective blades at points on opposite sides of said pin and a second handle member engaging said end portion of said pin to draw said pin rearwardly whereby to actuate said blades about the pivots between said blades and said legs, and co-operating cams at the rear ends of said blades for progressively separating the rear ends of the blades about said pin as a fulcrum, and thus positively urging such edges toward each other into engagement with each other in response to actuation of said blades while imposing a forwardly tilting force on said pin acting on the flanges thereof opposing the rearwardly tilting force imposed by the engagement of said second handle member with the end portion of said pin, thus maintaining said pin normal to the plane of said blades.

2,591,621
TENTER DRIER
Michael Shegda, Philadelphia, Pa., assignor to Proctor & Schwartz, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application January 8, 1951, Serial No. 204,945
5 Claims. (Cl. 34—158)

1. In a tenter dryer comprising a housing and a tenter chain movable longitudinally therethrough provided with upstanding pins upon which the opposite selvage edges of a fabric are impaled to convey the fabric through the dryer, a plurality of transversely disposed discharge nozzles for drying air uniformly spaced longitudinally of the housing above and below the fabric and constructed to cause substantially larger volumes of drying air to be discharged downwardly at the selvage edge portions of the fabric than are discharged upwardly against the underside of said edge portions to thereby retain the fabric impaled on the pins and to cause a substantially larger volume of drying air to be discharged upwardly against the underside of the fabric central portion than is discharged downwardly thereon to thereby support the fabric in an elevated relatively floating condition.



2,591,622
BEARING MOUNTING
Stanley S. Shoup, Toledo, Ohio, assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 13, 1947, Serial No. 785,685
6 Claims. (Cl. 308—207)



1. A preloaded taper roller cone bearing mounting subjected to radial load reversal, journaled between shoulders on a shaft including, an outer cone having a tapered bore, a longitudinally slit sleeve mounted for axial movement upon said shaft and projecting through said cone and provided with an inwardly tapering conical peripherial surface for a greater portion of its length conforming to the tapered bore of said cone and terminating in a radial flange portion beyond said cone, a bu'tress ring mounted on said shaft in axial alignment with said sleeve and bearing against one of said shoulders, a plurality of set screws threadably extending through said ring and abutting against said flange to preload said bearing mounting to a definite amount and shims of a predetermined thickness interposed between said radial flange and said ring to provide a backing for the entire bearing area of said flange and to maintain the preloaded condition of said bearing mounting as established by said preloading means.

2,591,623

PROCESS FOR THE PRODUCTION OF A PLASTIC MATERIAL FROM SHELLAC AND RESINOLS LIKE BHILAWAN SHELL LIQUID OR CASHEW SHELL LIQUID SUITABLE FOR MAKING MOULDING POWDERS, COATING COMPOSITIONS, ADHESIVES OR THE LIKE

Salimuzzaman Siddiqui, New Delhi, Krishen Kumar Sarin and Jyoti Prasad Varma, Poona, India, assignors to Council of Scientific and Industrial Research, New Delhi, India

No Drawing. Application May 1, 1950, Serial No. 159,381. In India May 9, 1949
7 Claims. (Cl. 260—24)

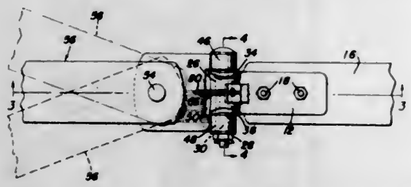
1. In the manufacture of plastic materials suitable for use as molding powders, coating compositions, adhesives and the like from resinols obtained from the pericarp of the nuts and incised trunks of plants belonging to the natural order Anacardiaceae, the process which comprises subjecting shellac mixed with such a resinol, in quantity amounting to at least about 18 per cent by weight, based on the weight of the shellac, and not substantially exceeding an equal part by weight, to the action of steam at a pressure within the range of from about 30 to 100 pounds per square inch, for a period ranging from about 1 to 5 hours until a homogeneous reaction product is obtained which is insoluble in hydrocarbon solvents but soluble in alcohol.

2,591,624

TRACTOR HITCH

Max C. Siebels, Minden, Iowa

Application March 9, 1951, Serial No. 214,683
3 Claims. (Cl. 280—33.44)



1. A trailer draft connection comprising a U-shaped member having an eye-shaped head portion, a pivot bolt in said eye-shaped head portion, said U-shaped member having apertures in the leg portions for receiving attaching means for securing the same to a drawbar of a vehicle, a connector plate hinged to said pivot bolt, and means for removably fastening said connector plate to the tongue of a vehicle to be drawn along, said eye-shaped head portion comprising outwardly flared portions at opposite ends thereof whereby said pivot bolt is pivotable about and axis normal and centrally of its longitudinal axis.

2,591,625

METHOD OF RUSTPROOFING AND USING CONCRETE REINFORCING ELEMENTS

Hans Lennart Simonsson, Stockholm, and Torsten Leo Ulfstedt, Sodertalje, Sweden, assignors to Internationella Siporex Aktiebolaget, Stockholm, Sweden, a company of Sweden

No Drawing. Application November 1, 1948, Serial No. 57,824. In Sweden November 3, 1947
11 Claims. (Cl. 25—154)

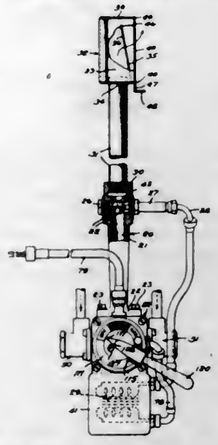
2. In the making of reinforced concrete wherein rust-proofed steel and iron reinforcing elements are employed, the process which comprises coating the reinforcing elements with a hydraulic cement liquid slurry containing from about 5 to 25 per cent of a hydrophilic organic colloidal binding material which at least swells in water and retards the setting of the composition, drying the coating before setting takes place, and surrounding the reinforcing elements with a hydraulic cement grout, whereby the cement coating on the reinforcing elements sets and unites with the concrete during setting thereof, producing tight water-proof tough joints between the reinforcing elements and the concrete.

2,591,626

AUTOMATIC GAS IGNITER TUBE FOR BURNERS

Stephen A. Sloan, Metuchen, N. J., assignor to Peabody Engineering Corporation, New York, N. Y., a corporation of New York

Application December 17, 1948, Serial No. 65,800
10 Claims. (Cl. 158—115)



1. A gas igniter comprising an igniter tube having a tip, a source of purge air and a source of combustible gas for ignition, ignition electrodes disposed in said igniter tube, a switch connected to control the supply of current to said electrodes, valves connected to control the passage of purge air and combustible gas from the respective sources to said igniter tube, and a timed control having means operable in timed sequence for actuating the purge air valve, the combustible gas valve, and the igniter switch so as to first purge the igniter tube with air, then supply combustible gas thereto and energize said ignition electrodes.

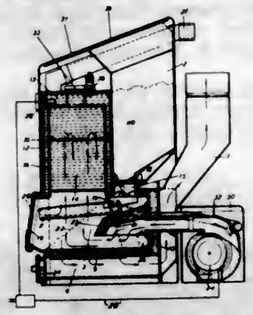
2,591,627

SYMMETRICAL FLUE BOILER WITH CENTRAL FIREBOX AND OFFSET MAGAZINE

William Herbert Smith, East Molesey, England

Application October 29, 1948, Serial No. 57,250
In Great Britain November 3, 1947
6 Claims. (Cl. 122—130)

1. A boiler comprising a fire-box in the bottom thereof, a flue having a length substantially coextensive longitudinally with that of the upper part of the boiler and extending upwardly from the fire-box to the top of the boiler and then laterally and downwardly to the bottom thereof, and a fuel hopper at the back of the boiler behind said flue and above said fire-box permitting the fuel hopper to extend the full width of the boiler, said hopper having a fuel discharge port opening into the top of said fire-box, and the downwardly extending portion of said flue being longer from front to back below said fuel hopper than above said fire-box to provide sufficient transverse flue



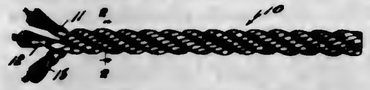
area and to permit the fire-box to be of maximum width.

2,591,628

ROPE COMPOSED OF NATURAL AND SYNTHETIC FIBERS

Robert A. Snyder, Marion, Mass., assignor to New Bedford Cordage Company, a corporation of Massachusetts

Application July 6, 1950, Serial No. 172,244
4 Claims. (Cl. 57—140)



1. In a rope, a plurality of at least three strands laid together with each strand comprising at least two yarns twisted together, said strands being formed of natural and synthetic fibers twisted together, said natural fibers predominating and said synthetic fibers being of greater elasticity than the natural fibers in an amount to take strain only after partial parting of the natural fibers to a predetermined point whereby to strengthen the strand after the synthetic fibers begin to bear load.

2,591,629

DUPLEX DIVISIBLE CARTON

Richard O. Spalding, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application July 16, 1949, Serial No. 105,219
7 Claims. (Cl. 229—15)



1. A duplex divisible carton comprising a pair of units positioned side-by-side, each said unit consisting of a single carton having vertical sides and ends, a cover hinged to one said side along the upper edge thereof, a bottom and bottom end flaps extending upwardly therefrom and overlying a portion of the outer end faces of the carton, and means for integrally uniting said units, said uniting means comprising sheets of material overlying the outer end faces of the carton and positioned above and extending downwardly into abutting relation with the bottom end flaps, and means for rigidly securing said sheets to the end walls of the carton, said sheets being severable along vertical lines in the plane of the adjoining side faces of the said units, thereby dividing the duplex carton into separate single cartons.

2,591,630

BRICK GREASE COMPOSITION

Lorne W. Sproule and Laurence F. King, Sarnia, Ontario, Canada, assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 28, 1950, Serial No. 198,022
6 Claims. (Cl. 252—41)

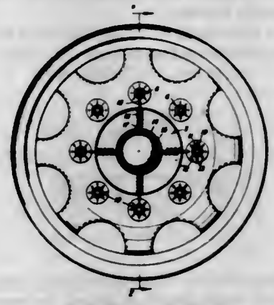
1. A block lubricating grease composition for high temperature operation consisting essentially of about 3 to 6 parts of mineral lubricating oil of viscosity between 80 and 125 S. S. U. at 100° F. and 1 to 6 parts of mineral lubricating oil of viscosity between about 2000 and 5000 S. S. U. at 100° F., said oils being blended to give overall viscosity of 125 to 500 S. S. U. at 100° F., and 8 to 40% by weight, based on the total composition, of soda base soap.

2,591,631

VEHICLE WHEEL ASSEMBLY

Walter A. Stanitski, Chester, Pa.

Application August 25, 1947, Serial No. 770,403
3 Claims. (Cl. 301—9)



1. The combination with a disk-type vehicle wheel embodying a hub and brake drum assembly having a circular series of threaded attaching studs fixed thereto in spaced surrounding relation to the hub, a demountable rim-carrying disk provided with apertures receiving said studs, and nuts threaded on said studs to removably secure the rim-carrying disk to the hub and brake drum assembly, each of said nuts having a projecting annular flange provided with a circular series of uniformly spaced apertures, an annular ring spaced from and encircling the hub proper of the hub and brake drum assembly inwardly of the studs, and radial members carried by said ring and having hooks on their outer ends detachably engaged in apertures of the flanges of certain of said nuts to prevent unscrewing of the latter due to vibration or the like.

2,591,632

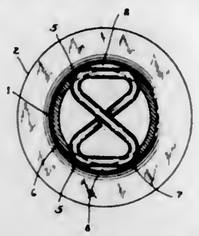
WASTE OUTLET CROSSBAR

Arthur M. Stavoe, Chicago, and William D. Carrie, Lisle, Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois

Application July 9, 1947, Serial No. 759,860
1 Claim. (Cl. 4—292)

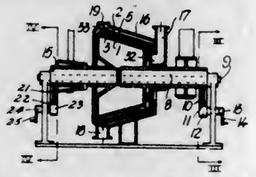
In a waste mechanism comprising a hollow cylindrical portion with oppositely disposed cutaway portions, a crossbar member therefor of the character described comprising a wire-like material substantially of a figure 8 configuration with a space between opposite end portions thereof to permit limited lengthwise resilience therebetween, the said configuration providing for the connecting diagonal portion of the figure 8 to

be interposed between said end portions to provide a limited clearance on each side of said diagonal portion of the figure 8 to permit said limited lengthwise resilience, the said crossbar



being snugly fitted resiliently between said oppositely disposed cut-away portions to extend transversely across the said hollow cylindrical portion.

2,591,633
BEATING APPARATUS
Erik Stephansen, Bestun, near Oslo, Norway, assignor, by mesne assignments, to Otto Imset, Bestun, Oslo, Norway
Application December 9, 1947, Serial No. 790,583
In Norway December 17, 1946
1 Claim. (Cl. 92—27)

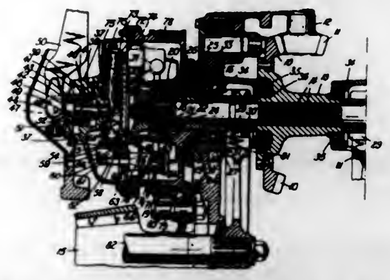


Beating apparatus comprising a shaft, means for supporting said shaft in fixed, horizontal position, a sleeve having an eccentric bore and turnably mounted on said shaft, means for adjusting the axis of said sleeve by turning the same on said shaft, a roll rotatably mounted on said sleeve, a second sleeve having an eccentric bore mounted on said shaft, means for adjusting the axis of said second sleeve independently of the axis of the first mentioned sleeve by turning said second sleeve on said shaft, a case enclosing the roll and being rotatably mounted on said second sleeve, and driving means by which the speed of rotation of the roll and the case can be adjusted independently of each other.

2,591,634
PROCESS FOR THE PREPARATION OF RAPIDLY HARDENING CAST RESINS FROM PHENOL AND FORMALDEHYDE AND TENSION-FREE CASTINGS PREPARED THEREFROM
Willem Johan Taat and Rudolf Willem van Heesen Korndorffer, Delft, Netherlands, assignors to Nederlandse Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek, ten behoeve van Nijverheid, Handel en Verkeer, The Hauge, Netherlands, a corporation of the Netherlands
No Drawing. Application February 9, 1949, Serial No. 75,492. In the Netherlands February 16, 1948
14 Claims. (Cl. 260—59)

11. A long-lasting, tension-free casting comprising a molded, hardened phenol-formaldehyde reaction product containing a small amount of selenium dioxide.

2,591,635
CLUTCH MECHANISM
Ernest Thomas James Tapp and Joseph Davey, Fleet, England, assignors to County Commercial Cars Limited, Aldershot, England, a British company
Application April 26, 1948, Serial No. 23,316
In Great Britain April 28, 1947
2 Claims. (Cl. 192—76)

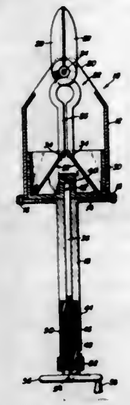


1. A clutch mechanism comprising a tubular shaft, an open ended drum fixed to that shaft, another shaft extending through the tubular shaft and terminating near the open end of the drum, a plate secured to the latter shaft, a pair of friction shoes each pivotally mounted at one end on one side of said plate within the drum, wedge means between the other ends of said shoes, spring means for contacting said brake shoes, a loaded operating spring mounted on the other side of said plate, means acted upon by said operating spring and having a part extending through openings in said plate and engaging said wedge means and operating means comprising a rock shaft mounted on the outside of said plate having one arm connected to a part extending through an opening in said plate and engaging said wedge means and a second arm pivotally connected to a link, a lever arm pivotally mounted on said plate having one end connected to said link, a reciprocal push rod mounted co-axially with said shaft and engaging the other end of the lever arm and a number of abutments on said rock shaft, and a number of springs arranged between said abutments and said plate.

2,591,636
PIVOTED-JAW WRENCH HAVING NUT-ACTUATED AND SLIDABLE CAM-WEDGE
Floyd O. Thompson, Sedro Woolley, Wash.
Application March 17, 1950, Serial No. 150,194
1 Claim. (Cl. 81—112)

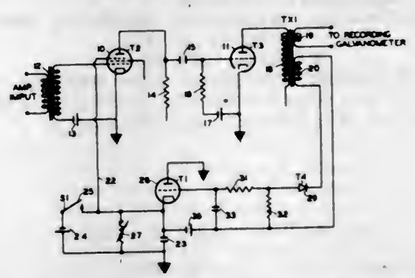
A wrench of the character described comprising an elongated metallic housing open at one end and closed at the other end, a pair of crossed levers pivotally mounted in the open end portion of the housing, coacting jaws on the outer ends of the levers projecting from the open end of the housing, a hollow metallic actuating member slidable longitudinally in the housing, said actuating member being open at one end and closed at its other end, said actuating member including opposed walls having converging slots therein, pins located on inner end portions of the levers and slidable in the slots for operatively connecting said levers to the actuating member, said actuating member further including an integral socket member in its closed end portion, a tubular handle on the closed end of the housing, a screw cap on the free end portion of said tubular handle, a rod slidable in the tubular handle and having one end portion anchored in

the socket member for operating the actuating member, a sleeve nut rotatably mounted in the free end portion of the tubular handle and threadedly connected with the rod for actuating



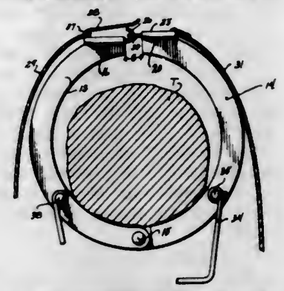
same, said sleeve nut including a reduced end portion extending rotatably through the cap, and operating means fixed on said reduced end portion.

2,591,637
AUTOMATIC VOLUME CONTROL CIRCUIT
Aubra E. Tilley, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application April 29, 1949, Serial No. 90,478
5 Claims. (Cl. 179—171)



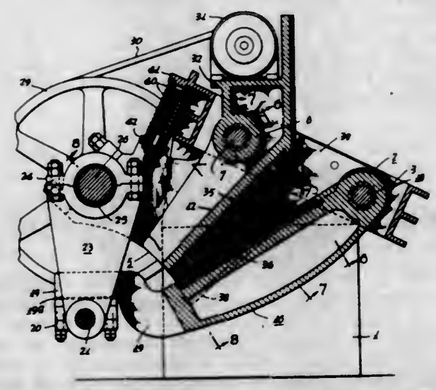
4. An automatic volume control system comprising, in combination, a multi-stage amplifier, the first stage including an electron tube having a control electrode for regulating its gain, a subsequent stage of said amplifier having output terminals for withdrawing a portion of the output voltage therefrom, a source of input voltage applied to said amplifier, a condenser connected to the control grid of said first stage tube, a second source of electrical energy for charging said condenser with a voltage of such polarity as to reduce the amplifier gain, switching means for removing said second source of electrical energy from said condenser before said input voltage is received, a resistance element comprising a first discharge path for said condenser, an electron tube having an anode, a cathode, and a control grid comprising a second parallel discharge path for said condenser, said anode being connected to one terminal of said condenser and said cathode being connected to the second terminal of said condenser, and a circuit actuated by the voltage across said output terminals for applying a negative rectified voltage to the control grid of said last-mentioned tube.

2,591,638
LINE CARRIER
Raymond E. Trafton, Paton, Iowa
Application March 8, 1949, Serial No. 80,301
4 Claims. (Cl. 294—19)



1. A device for carrying a flexible line over a tree limb or the like comprising opposed jaws pivotally connected adjacent the lower ends thereof, a handle, a flexible bracket secured to the handle, a pivotal connection between each jaw and said flexible bracket, a retaining member carried by the upper end of one of said jaws, a clasp frictionally supported by said retaining member to which a flexible line is attached, a second retaining member carried by the upper end of the other of said jaws, and a loop element frictionally supported by said last named retaining member to which a flexible line is attached, the arrangement being such that when the jaws are moved to embrace the limb and the pivotal connection between said jaws is forced against the limb, the jaws move toward each other whereby the loop element engages the clasp, and when the jaws are moved away from the limb, the clasp and loop element are detached from the said jaws, thus leaving the lines looped over the limb.

2,591,639
JAW TYPE CRUSHER
Samuel W. Traylor, Jr., Allentown, Pa.
Application April 14, 1948, Serial No. 20,943
6 Claims. (Cl. 241—219)



1. In a jaw type crusher, a stationary frame structure, a normally fixed jaw mounted in said frame for limited pivotal movement relative thereto, oscillating mechanism comprising an eccentrically driven member carried by said normally fixed jaw and having its axis spaced laterally at one side of the pivotal axis of the normally fixed jaw, a normally movable jaw pivotally mounted in said frame with its pivot axis spaced laterally at the opposite side of the fixed

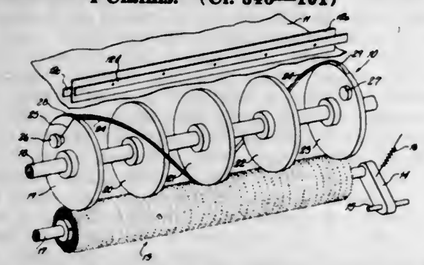
jaw pivot from said eccentric drive member, said normally movable jaw being disposed for cooperation with said fixed jaw and defining therebetween a longitudinally extending crushing chamber between the pivotal axis of said movable jaw and the eccentric drive member, the pivotal axes of said fixed and movable jaws being relatively spaced and arranged with respect to each other and the axis of said eccentric drive member to provide longitudinally of the crushing chamber in the vertical plane containing the fixed jaw axis a neutral point at which the force moment exerted by the movable jaw drive means about the pivot of the fixed jaw is equal and opposite to the moment of the crushing force exerted upon said fixed jaw by the movable jaw.

2,591,640

ELECTRODE ARRANGEMENTS FOR FACSIMILE RECORDERS

William H. Tribble, East Moriches, N. Y., assignor, by mesne assignments, to Jefferson Standard Broadcasting Company, a corporation of North Carolina

Application May 2, 1947, Serial No. 745,609
4 Claims. (Cl. 346—101)



2. A rotatable helical platen assembly for facsimile recorders and the like, comprising a rotatable shaft, a plurality of spaced discs mounted on said shaft and releasably fastened thereto for independent sliding adjustment on said shaft and independent rotational adjustment around said shaft, a helical member releasably fastened to the edges of said discs, means defining a helical groove along the length of said member and a wire electrode rectangular in cross section extending along said groove, and means to anchor the ends of said wire electrode to maintain it in a fixed relation within said groove.

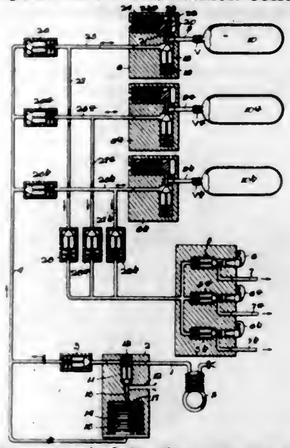
2,591,641

PNEUMATIC INSTALLATION

Jean Troendlé, Geneva, Switzerland

Application July 24, 1947, Serial No. 763,273
In Switzerland May 10, 1947
2 Claims. (Cl. 137—78)

1. In a pneumatic installation the combination comprising at least one source of compressed air, a supply line connected to the source, a plurality of branch conduits connected at one end to the supply line, a check valve in each of the branch conduits, an equal plurality of pairs of second branch conduits, each pair of second branch conduits being connected at one end to one of said first branch conduits, a plurality of reservoirs each connected to the other end of one of a pair of second branch conduits, a plurality of valves each controlling the connection of a second branch conduit to a reservoir and closed by the pressure in the reservoir dropping below a predetermined value, a plurality of second check valves one in the other one of each pair of second branch conduits, and a utilization manifold connected to the other ends of the other ones of the pairs of second branch conduits, and



valve means connected to the other ends of the other second branch conduits and operable to supply air therefrom.

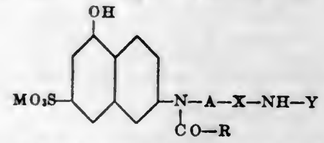
2,591,642

NONDIFFUSING COLOR FORMERS COMPRISING ARYL J-ACIDS IN WHICH THE ARYL RADICAL IS PROVIDED WITH A NONDIFFUSING GROUP

Vsevolod Tulagin, Phillipsburg, N. J., and Robert F. Coles, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 10, 1950, Serial No. 137,886
4 Claims. (Cl. 95—6)

1. A photographic silver halide emulsion containing as a color former fast to diffusion a compound of the following constitution:



wherein A is a radical of aromatic character selected from the class consisting of those of the benzene, naphthalene, pyridine and quinoline series, X is a carbonyl containing group selected from the class consisting of those of the following formulae: —CO—, —OCH_2CO—, —CH_2CO—, and —$NHCH_2CO$—, Y is a radical selected from the class consisting of those of aliphatic radicals containing a chain of at least 10 carbon atoms and aromatic radicals containing an aliphatic chain of at least 10 carbon atoms, M is selected from the class consisting of hydrogen and salt forming groups, and R is an aliphatic hydrocarbon group having less than 4 carbon atoms.

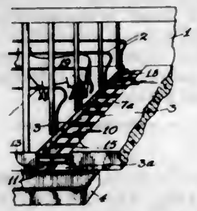
2,591,643

FERTILIZER SEPARATOR FOR BARNS AND LIKE STRUCTURES

Joseph Volmer, Huntley, Ill.

Application July 8, 1947, Serial No. 759,644
1 Claim. (Cl. 119—15)

In fertilizer separators for barns and like structures having an inclined floor with troughs at relatively high and low floor points; a sectional elevated platform arranged upon said floor with its ends adjacent said troughs, said platform sections spaced apart to permit passage of liquid fertilizer therebetween upon said floor, shafts at the ends of said platform, cog wheels upon said shafts, endless chains connecting said cog wheels, and cleats carried by said chains and extending



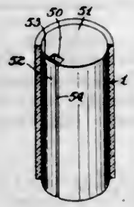
transversely thereof, said cleats slotted to receive and travel along said platform contiguous to the upper surface thereof, said cleats as they pass below said platform moving in a direction from the higher to the relatively lower trough immediately above said inclined floor to remove material therefrom toward said lower trough.

2,591,644

VARIABLE ELECTRICAL CONDENSER

Howard M. Wadsworth, Liverpool, N. Y.

Application December 15, 1949, Serial No. 133,158
1 Claim. (Cl. 175—41.5)



In a variable trimmer condenser, a tube of dielectric material, an exterior cylindrical electrode surrounding the tube and extending from one end substantially half the length of the tube, an inner electrode slidably mounted in the tube comprising a part-cylindrical portion of uniform circumferential extent throughout the length of said electrode and having substantially full surface contact with the tube, and a second part-cylindrical portion which is also of uniform circumferential extent and rigidly connected at its edge throughout its length to the edge of the first portion, said second portion being formed of integrated metallic laminations having different coefficients of thermal expansion, free from contact with the tube except adjacent its junction with said first mentioned portion, and means for sliding the inner electrode in the tube to vary the capacity of the condenser; the lamination of the second portion of the inner electrode which has a higher coefficient of thermal expansion being located on the outer side of the electrode.

2,591,645

PINACOLONE PEROXIDE

Henry A. Walter, Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 6, 1950, Serial No. 199,550
4 Claims. (Cl. 260—338)

1. Pinacolone peroxide.

2,591,646

STABILIZED READY MIXED ALUMINUM COATING COMPOSITION

William T. Walton and William Carl Spitzer, Chicago, Ill., assignors to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 20, 1947, Serial No. 749,354
4 Claims. (Cl. 106—290)

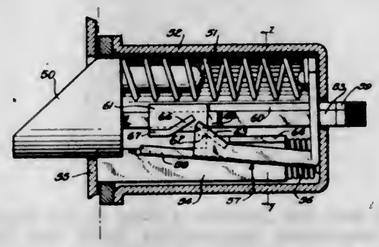
1. A prepared metallic coating composition characterized by its stability over long storage periods which consists essentially of a quantity of a metallic aluminum pigment having a tendency to generate hydrogen in the presence of water, a quantity of a varnish vehicle, and a quantity of plaster of Paris, the quantity of the plaster of Paris being effective to stabilize said composition against gas formation, said quantity of plaster of Paris being within the range of 0.25% to 10% by weight of the composition.

2,591,647

LATCH

Nicholas A. Welch, West Hartford, Conn., assignor to The American Hardware Corporation, New Britain, Conn., a corporation of Connecticut

Application November 12, 1948, Serial No. 59,461
2 Claims. (Cl. 292—165)



1. In a latch device of the character indicated, a latch case, a main bolt longitudinally slidably guided in said case, a longitudinally extending tail for said bolt and including lug means projecting through an end of said case for retracting actuation by a retractor carriage, an auxiliary bolt longitudinally slidably guided in said case, a sleeve longitudinally slidably guided on said bolt tail and including lug means projecting through said end of said case for retracting actuation by said retractor carriage, dogging means movable to a first position for dogging said bolt and to a second position to clear the path of said bolt, and a cam slope on said dogging means and cooperating with a part of said sleeve for urging said dogging means toward said second position upon a retracting displacement of said sleeve, said bolt tail and said sleeve being positioned for independent coupling to the retractor carriage.

2,591,648

BUCKLE

Paul W. White and Joseph J. Schutz, New Haven, Conn., assignors to Parva Products Company, Chicago, Ill., a corporation of Delaware

Application October 9, 1948, Serial No. 53,648
10 Claims. (Cl. 24—194)

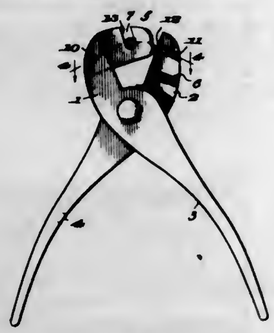
1. A slide buckle comprising a cast frame having longitudinally extending grooves formed in the opposed inner faces of the side bars thereof, a slide having a length greater than the spacing of said inner faces, at least one of said grooves including a cutaway portion in a longitudinal

wall thereof permitting the insertion of the opposed ends of said slide into said grooves for support thereby, and means for at least partially



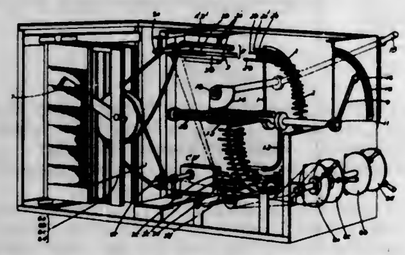
blocking said cutaway portion after insertion of said slide to retain said slide permanently in said frame for limited longitudinal movement along said grooves.

2,591,649
WIRE FORMER AND STRIPPER
Bradford C. Whiting, Poughkeepsie, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 13, 1948, Serial No. 2,071
6 Claims. (Cl. 7—5.4)



1. A tool for forming a loop in an insulated wire comprising cooperating male and female members adapted to be moved into and out of engagement with each other and to form a loop in a wire placed therebetween, wire supporting means on said male member, and means on said female member cooperating therewith to strip insulation from said wire, including means for accommodating the stripped wire during the forming of the loop therein as the wire supporting means on the male member enters the female member.

2,591,650
CONTROL MEANS FOR COLOR LIGHTING APPARATUS
Rollo Gillespie Williams, Grantchester, England
Application February 27, 1946, Serial No. 650,414
In Great Britain March 3, 1945
7 Claims. (Cl. 315—318)



1. Apparatus for varying the intensity of a plurality of sources of light of different colors comprising adjustable dimming means for each source of light, force transmitting means for adjusting the dimming means, said transmitting means being operable to effect a plurality of different adjustments of the dimming means, means selectively movable relative to the transmitting means to a plurality of preselecting positions, means for moving said selectively movable means selectively to a preselecting position, and means operable independently of said last-mentioned means for moving said selectively movable means to operate directly the transmitting means to effect a preselected change in the intensity of the combined sources of light.

2,591,651
STABILIZED ORGANIC COMPOSITIONS CONTAINING BIS(HYDROXY ALKOXY PHENYL) ALKANES
David W. Young, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 21, 1949, Serial No. 128,678
9 Claims. (Cl. 44—78)

9. A composition of matter consisting essentially of an organic material normally subject to oxidative changes selected from the group consisting of grease, synthetic rubber, lubricating oil, drying oil, wax, animal fat, cracked gasoline and mineral oil containing a minor proportion effective as an antioxidant of a bis (2-hydroxy-5-alkoxy phenyl) alkane.

2,591,652
TWO-PIECE KEY
Peter Ziegliss, Bronx, N. Y.
Application October 17, 1947, Serial No. 780,473
1 Claim. (Cl. 70—395)



A key for a cylinder lock having a shank made up of two complementary mating parts, a spring catch on each part in latching engagement to hold the two parts together, one part being adapted to be unlatched from the other part for separate insertion in the key passageway of a cylinder lock, and the other part upon insertion in said passageway becoming latched with said one part by said spring catches for actuation of said lock and retraction of the two parts from said passageway.

2,591,653
DISPENSING CONTAINER FOR DUST
Daniel M. Altiere, South Bound Brook, N. J., and Russell A. Burton, South Euclid, Ohio, assignors to The Sherwin-Williams Co., Cleveland, Ohio, a corporation of Ohio
Application April 1, 1948, Serial No. 18,316
18 Claims. (Cl. 222—193)

1. A dust dispenser comprising a tubular element defining a dust reservoir, a first closure at one end of said tubular element including means for admitting air under pressure, a second closure at the opposite end of said tubular element including means for discharging a dispersion of dust and air, said second closure comprising a generally cylindrical element closed at its ends and defining a dispersion chamber

concentrically disposed in the discharge end of said tubular element, said cylindrical element having an outer diameter smaller than the inside diameter of said tubular element to provide an annular space between the walls thereof, a plurality of ports in said cylindrical element for communication between said annular space and said dispersion chamber and a discharge opening through the outer end wall of said cylindrical element, means defining a plurality of air conduits extending longitudinally and spaced



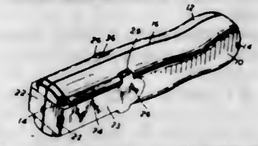
substantially uniformly about the inner surface of said tubular element, said conduits terminating at one open end adjacent said first closure and at their opposite open end adjacent said annular space, whereby air admitted through said first closure may pass into and through said conduits and into said annular space for entraining dust, thence with the entrained dust through said ports into said dispersion chamber and through said discharge opening in the form of a dust spray, and means for forcing air through said air admitting means.

2,591,654
PANEL JOINT SUPPORT
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 23, 1948, Serial No. 34,771
2 Claims. (Cl. 189—34)



1. A panel joint support, comprising in combination, spaced transverse frame members having bearing surfaces adapted to support panels thereon, panels supported on said bearing surfaces of the frame members, an auxiliary frame member secured to the side of one of said transverse frame members where a point is to be made in said panels, said auxiliary frame member having a bearing surface disposed below the level of the bearing surface of the transverse frame member to which it is secured, a panel joint splice batten having one end supported on the bearing surface of the auxiliary frame member and having its upper surface engaging the under surface of two adjacent panels and underlying the joint space between the ends of the panels, the joint space being located at one side of said transverse frame member and its auxiliary frame member, means securing the panel ends at the joint to said joint splice batten, and means securing the panels to the frame members.

2,591,655
SHEATHED KNIFE OR LIKE IMPLEMENT
Lawrence Fitz Gerald Foley, London, England
Application February 9, 1948, Serial No. 7,185
In Great Britain December 23, 1947
4 Claims. (Cl. 7—11)



1. A knife or like implement comprising a hollow handle, a partition dividing said handle longitudinally into two compartments, a tool housed in each of said compartments, an opening at one end of each of said compartments through which said tools can be caused to project, means for positively holding said tools against complete removal out of said compartments and a pair of shutters mounted on said handle, one for each of said compartments, to close and to open said compartments when desired and to hold said tools in the projected position, each of said shutters being in the form of a lever, one end of which is pivotally mounted on said handle so as not to project abruptly or at all substantially therefrom and the other end of which forms a thumb piece which can be depressed to cause the associated compartment to be opened, a spring between each of said thumb pieces and said handle whereby to urge said shutters constantly into the closed position and means for interlocking said shutters to prevent them from being both opened at the same time.

2,591,656
PORTABLE IRONER AND STAND COMBINATION
John J. Getgey, Cincinnati, Ohio, assignor to Empire Ironer, Inc., Cincinnati, Ohio, a corporation of Ohio
Application May 6, 1948, Serial No. 25,363
2 Claims. (Cl. 248—13)



1. In an ironing machine, the combination of an ironer base and an ironer stand comprising an elongated support frame, a top panel mounted upon said frame, said top panel formed of sheet metal having opposite side edges curled upwardly and inwardly to form semi-circular flanges which strengthen the panel and define a guideway extending longitudinally thereof, said ironer base formed of sheet metal having a downwardly curved marginal edge, a beading formed of pliable material engaged upon said marginal edge, the top panel being longer than the base but of such width that when the ironer base is resting upon it the semi-circular flanges at the respective sides thereof loosely embrace the downwardly curved marginal edge and beading at opposite sides of the base, means near one end of the base to provide anti-friction contact between

that end of the base and the panel, and the other end of the base adapted to be raised out of engagement with said panel within the limits permitted by the semi-circular flanges whereby said base may be slid longitudinally of the panel upon said anti-friction means.

2,591,657

IRONER STAND WITH CONVERTIBLE WORK TRAY SLIDABLY MOUNTED THEREIN

John J. Getgey, Cincinnati, Ohio, assignor to Empire Ironer, Inc., Cincinnati, Ohio, a corporation of Ohio

Original application May 6, 1948, Serial No. 25,363. Divided and this application October 17, 1949, Serial No. 121,853.

2 Claims. (Cl. 311—52)



1. An ironer stand comprising; a support frame, a top panel mounted on said frame, a pair of downwardly extending transverse flanges at the opposite ends of said top panel, said end flanges secured to said support frame and providing a pair of guideways, and an extensible tray confined in said guideways and adapted to be shifted relative to said top panel to provide a work receiving surface.

2,591,658

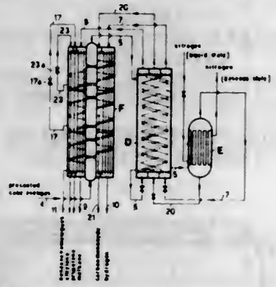
PROCESS AND APPARATUS FOR THE SEPARATION OF COKE-OVEN GAS

Pieter J. Haringhuizen, Geleen, Netherlands, assignor to De Directie van de Staatsmijnen in Limburg, Heerlen, Netherlands

Application January 7, 1949, Serial No. 69,661

In the Netherlands January 9, 1948

4 Claims. (Cl. 62—175.5)



1. Process for the separation of coke-oven gas into several fractions by cooling and successive liquefaction of these fractions, which consists in using the obtained liquefied fractions after expansion and re-evaporation as cooling agents and passing said cooling agents downwardly through a plurality of cooling elements in a heat exchanger, passing a precooled coke-oven gas of about —45° C. upwardly in a helical path divided into a plurality of separate, successive condensation zones along and around said cooling elements, whereby the coke-oven gas is brought into repeated, substantially transverse contact with the cooling elements and condensation is brought about in each of the said condensation zones, collecting said condensed fractions on the bottoms of said zones, withdrawing said fractions from the bottoms of said zones, withdrawing uncondensed gas from the top of said heat exchanger, passing this gas downwardly through a second heat exchanger, wherein the gas is further cooled in order to liquefy the greater part of the methane, withdrawing the uncondensed gas from the said second heat exchanger and passing the gas through a condenser in which the gas is cooled by boiling nitrogen, withdrawing a liquefied fraction composed of carbon monoxide and methane from the bottom of this condenser, and a gas substantially consisting of hydrogen from the top of the condenser.

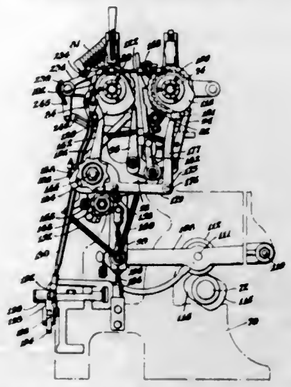
2,591,659

FULL-FASHIONED KNITTING MACHINE

Montroy Jeffrey, Philadelphia, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Application July 10, 1946, Serial No. 682,651

24 Claims. (Cl. 66—89)



1. In a fashioning mechanism for a single unit full-fashioned knitting machine operating in several sets of fashioning cycles, the combination of an end stop operating spindle, a comb operating spindle, pawls for turning said spindles in the direction to narrow the fabric, pawls to turn said spindles in the direction to widen the fabric, actuating means for said pawls, means adapted to control said pawls to cause them to effect two needle narrowing movements of both said spindles in one of said sets of fashioning cycles, and single needle narrowing movements of the comb spindle in another set of said fashioning cycles and a two needle narrowing movement of the end stop spindle in alternate cycles of said last set, said means adapted also to cause said pawls to effect single needle widening movements of the comb spindle in a further set of fashioning cycles and a two needle widening movement of the end stop spindle in alternate cycles of said last named set, and means to cause said comb operating spindle to effect single needle fashioning movements as well as two needle idling movements of the same in one or more of said sets of fashioning cycles.

2,591,660

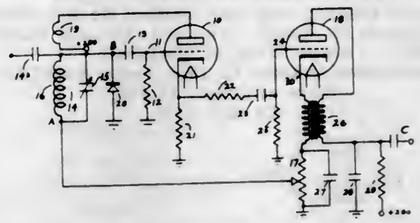
STABILIZED ELECTRICAL SYNCHRONIZING SYSTEM

Frederick A. Lindley, Flushing, N. Y., and Frederick M. Arbuckle, Allenhurst, N. J., assignors to Radio-Television Institute, Inc., New York, N. Y., a corporation of New York

Application November 8, 1947, Serial No. 784,916

9 Claims. (Cl. 250—36)

1. In an electrical synchronizing system, a source of synchronizing signal, a sine wave oscillator controlled by the source of synchronizing signals and operating at a harmonic of the synchronizing signal, means for causing that portion of the synchronizing signal employed to synchronize the sine wave oscillator to appear in the output of the sine wave oscillator, a second electrical wave generating means having a vacuum tube operating at a sub-harmonic of the sine wave oscillator whose operation is synchronized by the output of the sine wave oscilla-



tor containing, in combination, the wave form generated by the sine wave oscillator and the synchronizing signal, and means connected with said electrical wave generator for developing a control potential in accordance with average space current in the vacuum tube, and means applying the control potential so developed to said sine wave oscillator so as to control the signal amplitude developed thereby and applied to said second wave generating means.

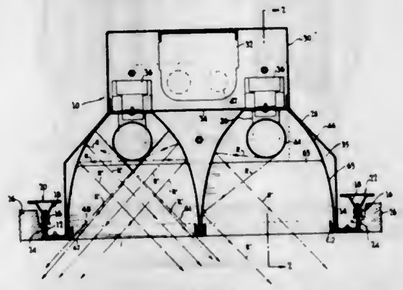
2,591,661

REFLECTOR FOR CONTROLLING AT A PREDETERMINED ANGLE DIRECT AND REFLECTED RAYS FROM A LIGHT SOURCE

Stanley McCandless, Hamden, Conn., assignor to Century Lighting, Inc., New York, N. Y., a corporation of New York

Application March 7, 1947, Serial No. 732,995

3 Claims. (Cl. 240—103)



1. An electric lighting fixture comprising a socket for holding a fluorescent tube having a diffuse cylindrical envelope, and an elongated specular reflector within which the tube in said socket is located, said reflector being symmetrical with respect to a plane passing through the longitudinal axis of said tube, said reflector being so shaped and located with respect to said envelope that all breadthwise light rays emanating tangential to the tube envelope within approximately a predetermined angle of cut off and incident upon the reflector will be reflected at the cut off angle, the shape of said reflector in a plane perpendicular to the longitudinal axis of said tube being that of a smooth curve tangent to small contiguous straight lines of progressively varying different angularity from which breadthwise light rays issuing tangentially to the envelope of the tube within approximately the cut off angle are reflected substantially parallel to said angle, said reflector including a portion on each side of the plane of symmetry, each said portion having an upper boundary lying in a plane which is tangent to the tube envelope at a line on the envelope located on the same side of the plane of symmetry as said portion, said tangent plane extending upwardly from the envelope to the upper boundary of said portion, the small straight line at the upper boundary of each portion being disposed perpendicular to the tangent plane extending upwardly from the tube envelope to said upper boundary.

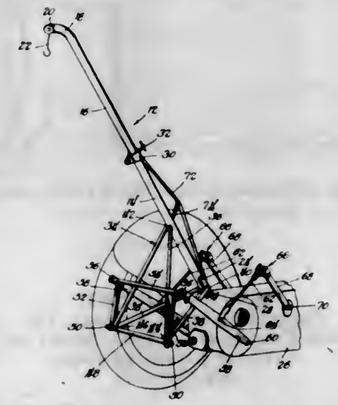
2,591,662

TRACTOR HOIST

Donald K. Struthers and George W. Schroeder, Des Moines, Iowa, assignors to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application June 6, 1946, Serial No. 674,708

11 Claims. (Cl. 254—124)

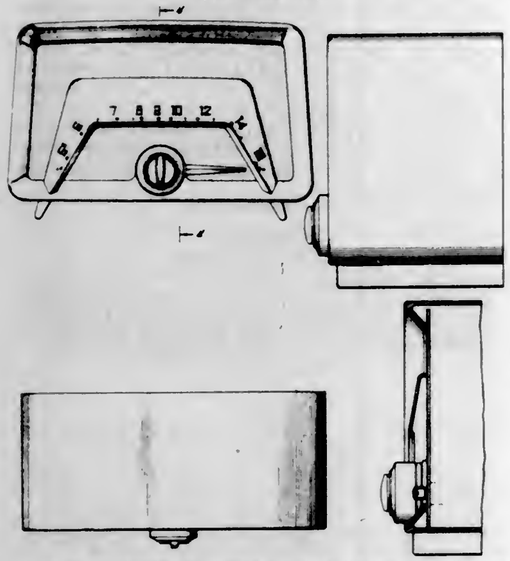


1. A tractor hoist comprising, in combination, a boom adapted to be pivoted on a tractor, a strut structure on said boom extending transversely therefrom, a swingable arm pivoted at one end on the outer end of said strut structure, a power lift arm having one end pivoted on the free end of said swingable arm and its other end pivoted on the tractor frame, and a link pivoted intermediate the ends of said power lift arm and adapted to be connected with power means on the tractor for swinging said power lift arm and thereby swinging said boom.

DESIGNS

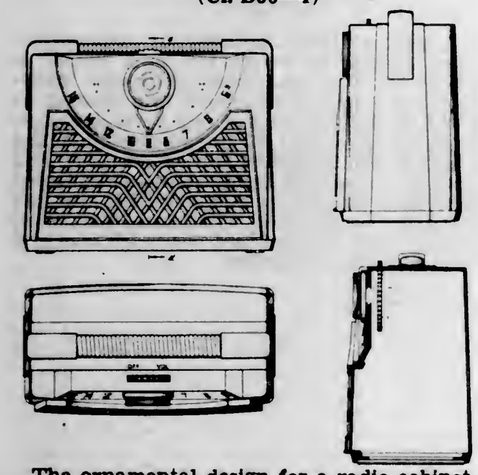
APRIL 1, 1952

166,290
RADIO CABINET
Samuel E. Adler, Chicago, Ill.
Application December 29, 1951, Serial No. 17,871
Term of patent 14 years
(Cl. D56—4)



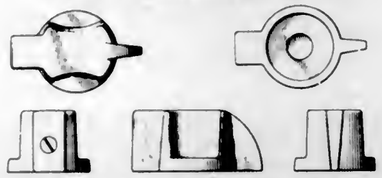
The ornamental design for a radio cabinet, as shown and described.

166,291
RADIO CABINET
Samuel E. Adler, Chicago, Ill.
Application December 29, 1951, Serial No. 17,872
Term of patent 14 years
(Cl. D56—4)



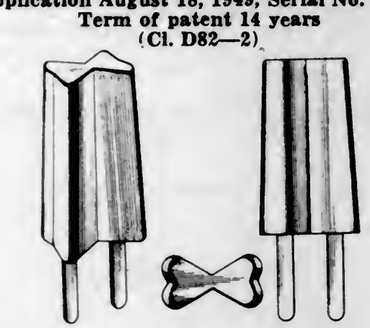
The ornamental design for a radio cabinet, as shown and described.

166,292
ROTATABLE CONTROL KNOB
Howard Edward Anthony, Benton Harbor, Mich., assignor to Heath Company, Benton Harbor, Mich., a corporation of Michigan
Application October 23, 1951, Serial No. 17,085
Term of patent 14 years
(Cl. D26—13)



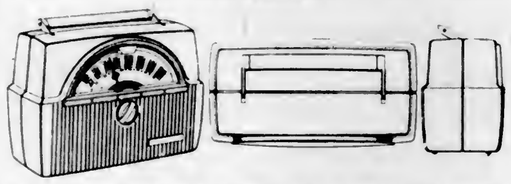
The ornamental design for a rotatable control knob, as shown.

166,293
FROZEN CONFECTION
Ludwig H. Baier, Hollis, N. Y., assignor, by mesne assignments, to Fruit Products Corporation, New York, N. Y., a corporation of New York
Application August 18, 1949, Serial No. 4,591
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a frozen confection, substantially as shown.

166,294
RADIO RECEIVER
George A. Beck, Manlius, N. Y., assignor to General Electric Company, a corporation of New York
Application October 8, 1951, Serial No. 16,876
Term of patent 14 years
(Cl. D56—4)



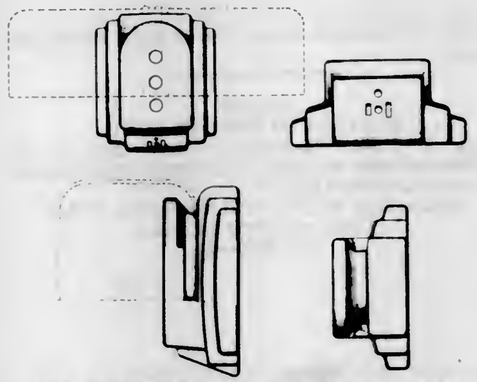
The ornamental design for a radio receiver, substantially as shown and described.

166,295
WATCH BOX
Francis E. Blod, Tuckahoe, N. Y., and Alfred M. Blumenfeld, Hackensack, N. J., assignors to The Gruen Watch Company, Cincinnati, Ohio, a corporation of Ohio
Application September 21, 1950, Serial No. 12,281
Term of patent 14 years
(Cl. D80—5)



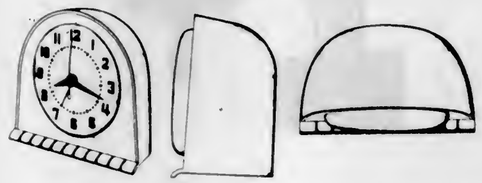
The ornamental design for a watch box, substantially as shown.

166,296
LIGHTING FIXTURE WALL BRACKET
John W. Brooks, Syracuse, N. Y.
Application January 15, 1951, Serial No. 13,812
Term of patent 14 years
(Cl. D48—4)



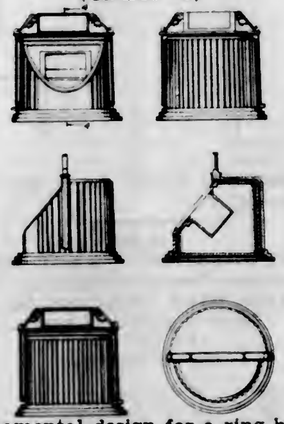
The ornamental design for a lighting fixture wall bracket, substantially as shown and described.

166,297
CLOCKCASE
Leo I. Bruce, Framingham Center, Mass., assignor to General Electric Company, a corporation of New York
Application October 3, 1951, Serial No. 16,823
Term of patent 14 years
(Cl. D42—7)



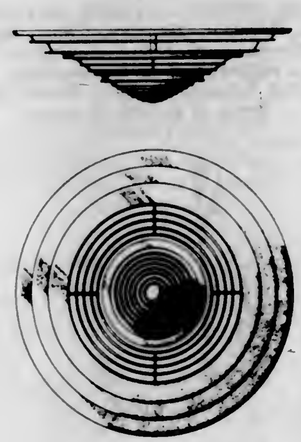
The ornamental design for a clock case, as shown.

166,298
RING BOX OR SIMILAR ARTICLE
Richmond L. Chipman, Jr., Montclair, N. J., assignor of twenty-five per cent to Milton Schaffer and twenty-five per cent to Harriet Schaffer, both of New York, N. Y., and twenty-five per cent to Allan Schaunder and twenty-five per cent to Ruth Schaunder, both of East Orange, N. J.
Application December 5, 1951, Serial No. 17,623
Term of patent 7 years
(Cl. D80—5)



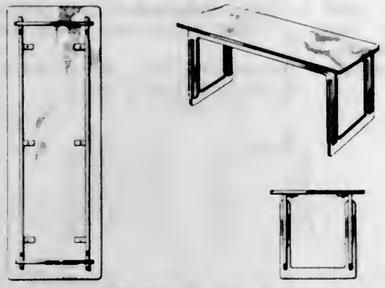
The ornamental design for a ring box or similar article, as shown.

166,299
CEILING VENTILATOR FOR HEATING AND AIR CONDITIONING
Joseph R. Corbett, Cincinnati, Ohio, assignor to Nu Tone, Inc., Cincinnati, Ohio, a corporation of New York
Application August 7, 1951, Serial No. 16,194
Term of patent 14 years
(Cl. D62—4)



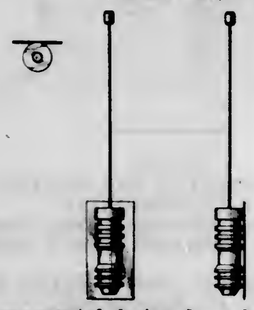
The ornamental design for a ceiling ventilator for heating and air conditioning, substantially as shown.

166,300
TABLE
Philip C. Curtis, Scottsdale, Ariz.
Application June 8, 1951, Serial No. 15,469
Term of patent 3½ years
(Cl. D33—14)



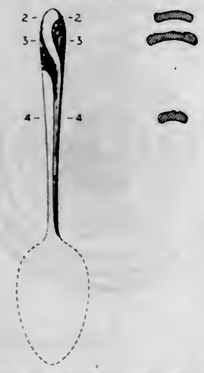
The ornamental design for a table, substantially as shown.

166,301
HAT ORNAMENT OR THE LIKE
Anthony Dispensa, Hinsdale, Ill.
Application May 3, 1951, Serial No. 15,053
Term of patent 14 years
(Cl. D3—13)



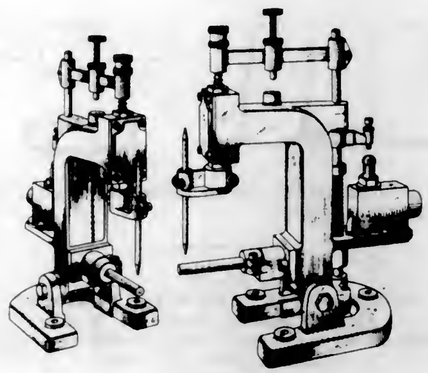
The ornamental design for a hat ornament or the like, as shown.

166,302
SPOON OR OTHER ARTICLE OF FLATWARE
Robert L. Doerfler, Meriden, Conn., assignor to The International Silver Company, Meriden, Conn., a corporation of Connecticut
Application January 12, 1952, Serial No. 18,027
Term of patent 14 years
(Cl. D54—12)



The ornamental design for a spoon or other article of flatware, substantially as shown and described.

166,303
SPOT WELDER
Charles Eisler, South Orange, N. J.
Application August 15, 1951, Serial No. 16,290
Term of patent 7 years
(Cl. D26—5)



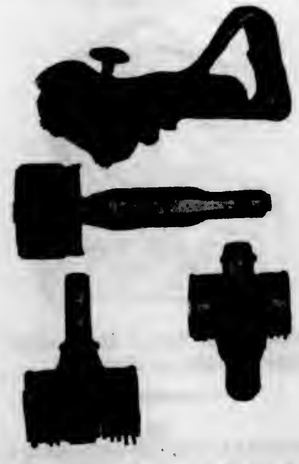
The ornamental design for a spot welder, as shown.

166,304
SURFACE CLEANING TOOL
John J. Falls, Cincinnati, Ohio, assignor to Aurand Mfg. & Equip. Co., Cincinnati, Ohio, a corporation of Ohio
Application May 21, 1951, Serial No. 15,261
Term of patent 14 years
(Cl. D93—2)



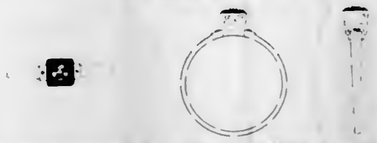
The ornamental design for a surface cleaning tool, as shown.

166,305
SURFACE CLEANING TOOL
John J. Falls, Cincinnati, Ohio, assignor to Aurand Mfg. & Equip. Co., Cincinnati, Ohio, a corporation of Ohio
Application May 21, 1951, Serial No. 15,262
Term of patent 14 years
(Cl. D93—2)



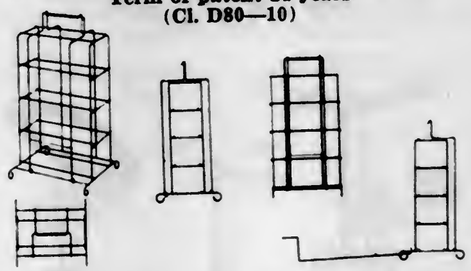
The ornamental design for a surface cleaning tool, as shown.

166,306
FINGER RING
Hy Frackman, New York, N. Y.
Application December 18, 1950, Serial No. 13,492
Term of patent 3½ years
(Cl. D45—10)



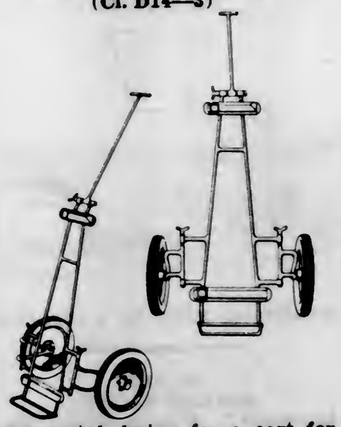
The ornamental design for a finger ring, substantially as shown and described.

166,307
RACK FOR FOOD PRODUCTS
Robert K. Gibbs, Evansville, Ind., assignor to Tri-State Plastic Molding Co., Henderson, Ky., a limited partnership
Application August 19, 1950, Serial No. 11,852
Term of patent 14 years
(Cl. D80—10)



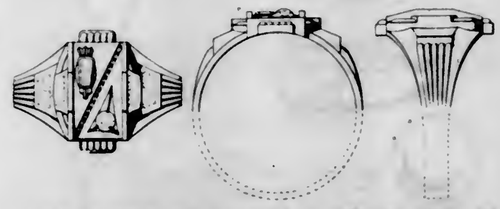
The ornamental design for a rack for food products, as shown.

166,308
CART FOR A GOLF BAG
Albert Carl Grant, Leavenworth, Kans.
Application May 2, 1950, Serial No. 9,634
Term of patent 14 years
(Cl. D14—3)



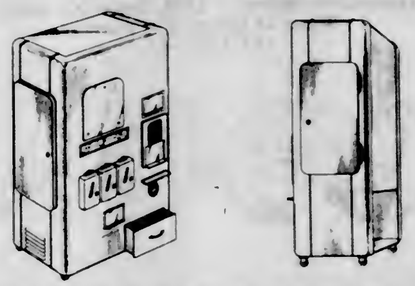
The ornamental design for a cart for a golf bag, as shown.

166,309
FINGER RING
Robert C. Haltom, Fort Worth, Tex.
Application October 8, 1951, Serial No. 16,875
Term of patent 14 years
(Cl. D45—10)



The ornamental design for a finger ring, as shown and described.

166,310
DISPENSING CABINET
Mary Harrison, Oakland, Calif.
Application September 12, 1951, Serial No. 16,616
Term of patent 14 years
(Cl. D52—3)



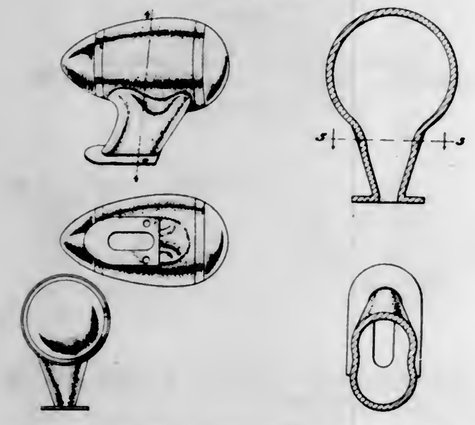
The ornamental design for a dispensing cabinet, as shown.

166,311
CUP
Emma C. Hense, Centralia, Wash.
Application June 27, 1949, Serial No. 3,561
Term of patent 3½ years
(Cl. D44—9)



The ornamental design for a cup, as shown.

166,312
SAFETY LIGHT
Raymond T. Holland, Macon, Mo.
Application April 28, 1949, Serial No. 2,314
Term of patent 3½ years
(Cl. D48—32)



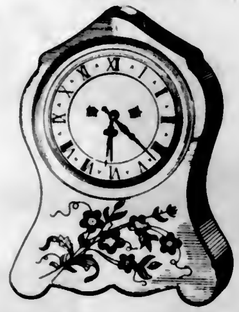
The ornamental design for a safety light, as shown and described.

166,313
EAR PROTECTOR AGAINST HEAT AND AIR FROM HAIR DRIERS
John Hussey, High Point, N. C.
Application March 7, 1950, Serial No. 8,383
Term of patent 3½ years
(Cl. D83—1)



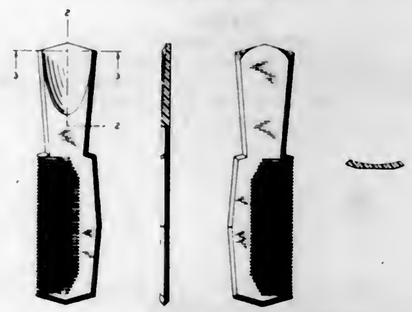
The ornamental design for an ear protector against heat and air from hair driers, as shown.

166,314
CLOCK OR SIMILAR ARTICLE
Roger H. Jahncke, Geneva, Switzerland, assignor to "Jancke S. A." Geneva, Switzerland, a company of Switzerland
Application April 27, 1951, Serial No. 14,989
In Switzerland November 6, 1950
Term of patent 3½ years
(Cl. D42—7)



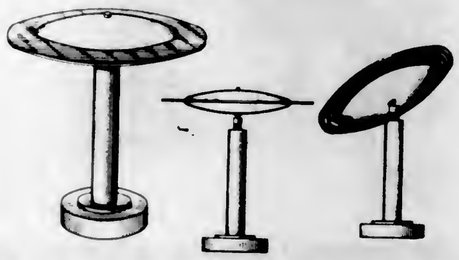
The ornamental design for a clock or similar article, substantially as shown.

166,315
COMBINED SHOEHORN AND COMB
Karl P. Janoff, Belleville, N. J.
Application April 23, 1951, Serial No. 14,933
Term of patent 14 years
(Cl. D86—8)



The ornamental design for a combined shoehorn and comb, substantially as shown.

166,316
LAMP
John Juergens, McHenry, Ill.
Application July 27, 1951, Serial No. 16,050
Term of patent 14 years
(Cl. D48—20)



The ornamental design for a lamp, as shown.

166,317
CAP
Eleanor Kairalla, New York, N. Y.
Application December 28, 1951, Serial No. 17,846
Term of patent 14 years
(Cl. D3—13)



The ornamental design for a cap, as shown.

166,318
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application July 17, 1951, Serial No. 15,905
Term of patent 7 years
(Cl. D45—16)



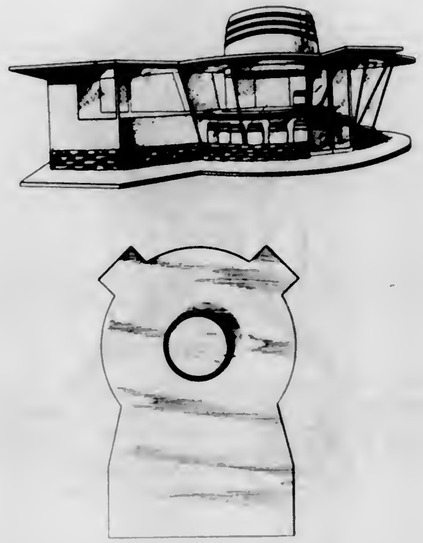
The ornamental design for a necklace or the like, substantially as shown and described.

166,319
SEPARABLE BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application November 10, 1951, Serial No. 17,352
Term of patent 7 years
(Cl. D45—19)



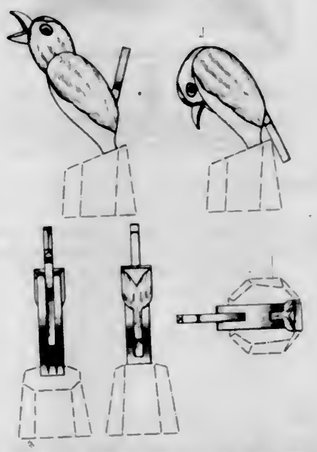
The ornamental design for a separable brooch or the like, substantially as shown and described.

166,320
COMBINED FOOD AND BEVERAGE VENDING STATION
Charles M. Kemper, Fort Lauderdale, Fla.
Application October 26, 1950, Serial No. 12,730
Term of patent 14 years
(Cl. D13—1)



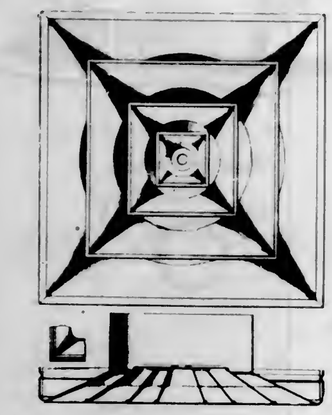
The ornamental design for a combined food and beverage vending station, substantially as shown and described.

166,321
ANIMATED TOY FIGURE
Alla Kent, New York, N. Y.
Application April 14, 1951, Serial No. 14,836
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for an animated toy figure, substantially as shown and described.

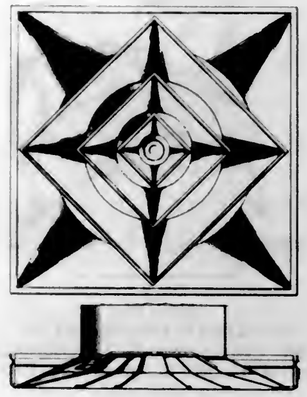
166,322
AIR DIFFUSING OUTLET FOR VENTILATING SYSTEMS
Franz J. Kurth, Mamaroneck, N. Y., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application November 28, 1949, Serial No. 6,288
Term of patent 14 years
(Cl. D62—4)





The ornamental design for an air diffusing outlet for ventilating systems, substantially as shown and described.

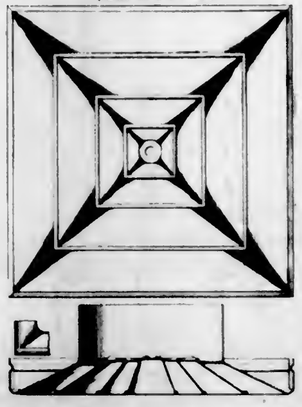
166,323
AIR DIFFUSING OUTLET FOR VENTILATING SYSTEMS
Franz J. Kurth, Mamaroneck, N. Y., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application November 28, 1949, Serial No. 6,289
Term of patent 14 years
(Cl. D62—4)

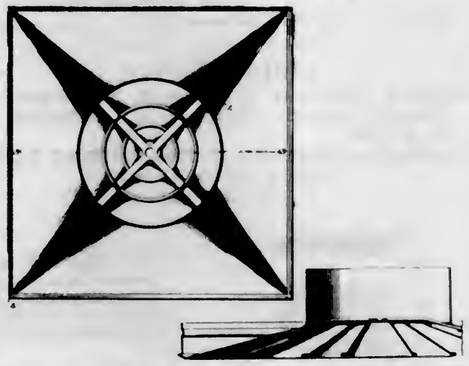




The ornamental design for an air diffusing outlet for ventilating systems, substantially as shown.

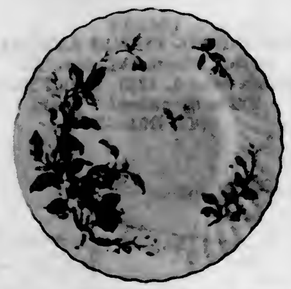
166,324
AIR DIFFUSING OUTLET FOR VENTILATING SYSTEMS
Franz J. Kurth, Mamaroneck, N. Y., assignor to Anemostat Corporation of America, New York, N. Y., a corporation of Delaware
Application November 28, 1949, Serial No. 6,290
Term of patent 14 years
(Cl. D62—4)





The ornamental design for an air diffusing outlet for ventilating systems, substantially as shown and described.

166,325
DINNER PLATE OR SIMILAR ARTICLE
Cyril W. Leigh, East Orange, N. J., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application April 2, 1951, Serial No. 14,691
Term of patent 14 years
(Cl. D44—15)



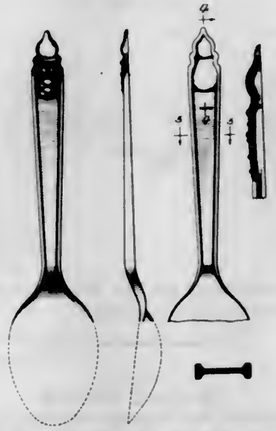
The ornamental design for a dinner plate or similar article, as shown and described.

166,326
DINNER PLATE OR SIMILAR ARTICLE
Cyril W. Leigh, East Orange, N. J., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application April 2, 1951, Serial No. 14,692
Term of patent 14 years
(Cl. D44—15)



The ornamental design for a dinner plate or similar article, as shown and described.

166,327
SPOON
Carl J. Lind, Skokie, Ill., assignor to Dairy Queen National Trade Association Incorporated, Davenport, Iowa, a corporation of Illinois
Application December 13, 1951, Serial No. 17,718
Term of patent 14 years
(Cl. D54—12)



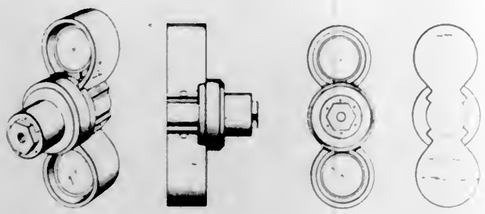
The ornamental design for a spoon, substantially as shown and described.

166,328
LACING HOOK FOR SHOES OR SIMILAR ARTICLES
Walter A. Maring, Huntington Park, Calif.
Application April 23, 1951, Serial No. 14,916
Term of patent 3½ years
(Cl. D17—12)



The ornamental design for a lacing hook for shoes or similar articles, as shown.

166,329
PRESSURE REGULATOR
John L. Matasovic, Chicago, Ill.
Application December 12, 1951, Serial No. 17,701
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a pressure regulator, substantially as shown.

166,330
PRESSURE REGULATOR
John L. Matasovic, Chicago, Ill.
Application December 12, 1951, Serial No. 17,702
Term of patent 14 years
(Cl. D52—1)

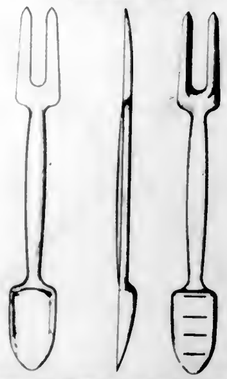
The ornamental design for a pressure regulator, substantially as shown.

166,331
PICTURE FRAME
James Morton McConnell, Chattanooga, Tenn.
Application March 14, 1949, Serial No. 1,399
Term of patent 14 years
(Cl. D29—20)



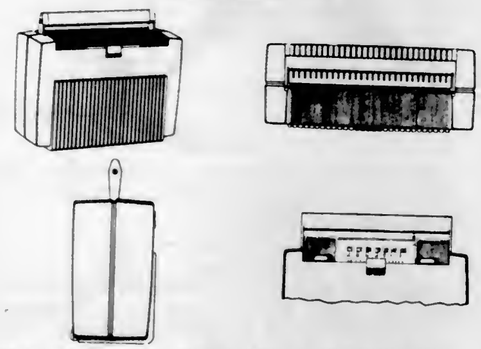
The ornamental design for a picture frame, as shown.

166,332
COMBINED GARDEN CULTIVATING AND MEASURING TOOL
James J. Melich and Edwin G. Melich, Chicago, Ill.
Application January 25, 1950, Serial No. 7,462
Term of patent 14 years
(Cl. D35—3)



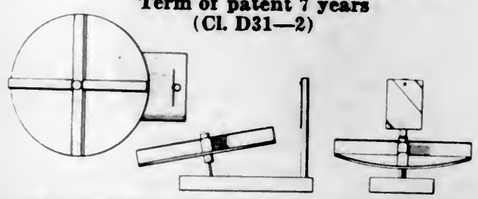
The ornamental design for a combined garden cultivating and measuring tool, as shown.

166,333
RADIO RECEIVER
Richard Montmeat, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application September 29, 1951, Serial No. 16,782
Term of patent 14 years
(Cl. D56—4)



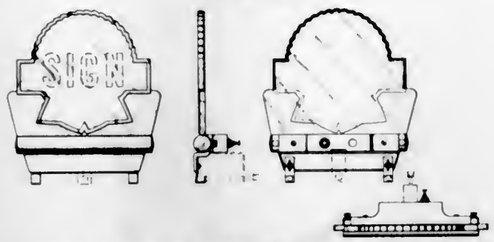
The ornamental design for a radio receiver, substantially as shown and described.

166,334
COMBINED BIRD PERCH AND MIRROR
Lester Moon, Chicago, Ill.
Application May 1, 1951, Serial No. 15,037
Term of patent 7 years
(Cl. D31—2)



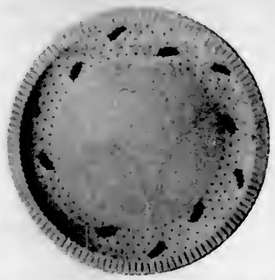
The ornamental design for a combined bird perch and mirror, as shown.

166,335
ILLUMINABLE SIGN
Jack Morgan, Chicago, Ill., assignor to Price Brothers, Inc., Chicago, Ill., a corporation of Illinois
Application August 23, 1950, Serial No. 11,891
Term of patent 3½ years
(Cl. D1—12)



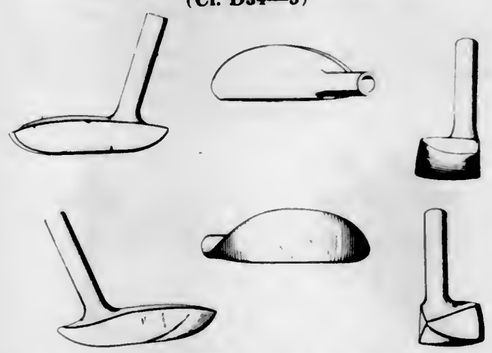
The ornamental design for an illuminable sign, substantially as shown and described.

166,336
DINNER PLATE OR SIMILAR ARTICLE
Edward M. Otis, Syracuse, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application March 8, 1951, Serial No. 14,419
Term of patent 14 years
(Cl. D44—15)



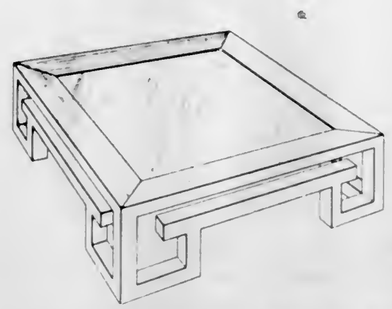
The ornamental design for a dinner plate or similar article, as shown and described.

166,337
GOLF CLUB PUTTER HEAD
Tracy S. Park, Houston, Tex.
Application August 17, 1950, Serial No. 11,805
Term of patent 14 years
(Cl. D34—5)



The ornamental design for a golf club putter head, substantially as shown.

166,338
TABLE OR SIMILAR ARTICLE
William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application August 18, 1951, Serial No. 16,374
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a table or similar article, as shown.

166,339
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,661
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

166,340
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,662
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

166,341
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,663
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

166,342
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,664
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

166,343
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,665
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

166,344
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,666
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

166,345
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,667
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

166,346
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 11, 1951, Serial No. 17,680
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

166,347
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 11, 1951, Serial No. 17,681
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

166,348
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 11, 1951, Serial No. 17,682
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or similar article, substantially as shown.

166,349
BROOCH OR SIMILAR ARTICLE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 11, 1951, Serial No. 17,684
Term of patent 7 years
(Cl. D45—19)



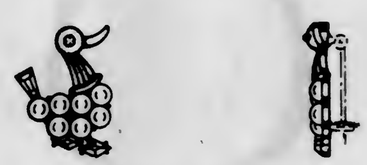
The ornamental design for a brooch or similar article, substantially as shown.

166,350
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,862
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

166,351
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,921
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,352
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,922
Term of patent 7 years
(Cl. D45—19)



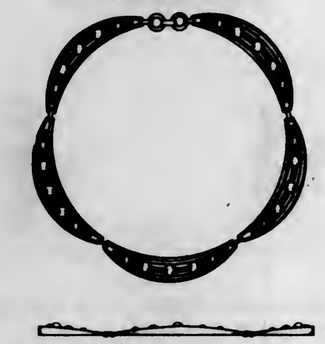
The ornamental design for a brooch or the like, substantially as shown.

166,353
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,930
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown.

166,354
NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,931
Term of patent 7 years
(Cl. D45—16)



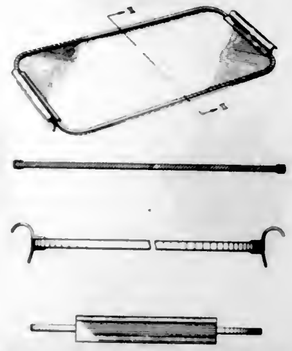
The ornamental design for a necklace or the like, substantially as shown.

166,355
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 10, 1952, Serial No. 17,988
Term of patent 7 years
(Cl. D45—19)



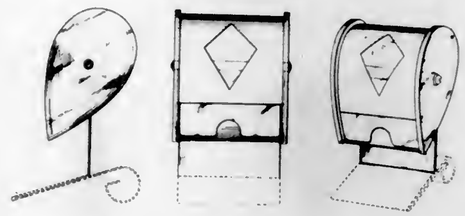
The ornamental design for a brooch or the like, substantially as shown.

166,356
TRAY
Joseph A. Potchen, Grand Rapids, Mich.
Application May 8, 1950, Serial No. 9,772
Term of patent 14 years
(Cl. D44—10)



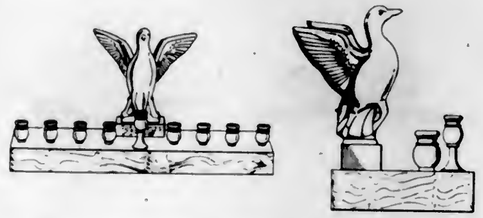
The ornamental design for a tray, substantially as shown.

166,357
DISPENSER FOR SLENDER ARTICLES
Gordon H. Severin, Oklahoma City, Okla.
Application April 5, 1948, Serial No. 145,535
Term of patent 3½ years
(Cl. D52—2)



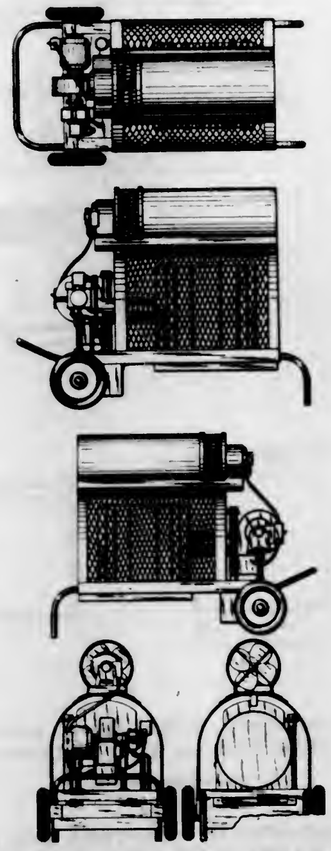
The ornamental design for a dispenser for slender articles, substantially as shown and described.

166,358
HANUKKAH MENORAH
Nathan Shain, Brooklyn, N. Y.
Application July 28, 1951, Serial No. 16,058
Term of patent 7 years
(Cl. D48—20)



The ornamental design for a Hanukkah Menorah, as shown and described.

166,359
PORTABLE HEATER AND BLOWER UNIT
Ralston M. Sherman, Glastonbury, Conn., assignor to The Silent Glow Oil Burner Corporation, Hartford, Conn., a corporation of Connecticut
Application June 29, 1950, Serial No. 10,826
Term of patent 14 years
(Cl. D31—10)



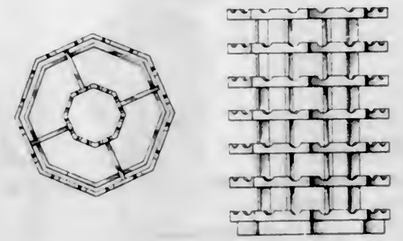
The ornamental design for a portable heater and blower unit, substantially as shown.

166,360
TABLE
Charles C. Shinn, Greenbelt, Md.
Application August 11, 1950, Serial No. 11,720
Term of patent 14 years
(Cl. D33—14)



The ornamental design for a table, as shown.

166,361
WINE DISPLAY UNIT
Jacob Siegel, San Francisco, Calif.
Application June 12, 1950, Serial No. 10,469
Term of patent 3½ years
(Cl. D80—9)



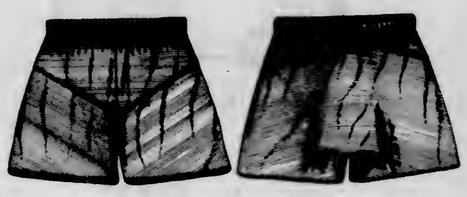
The ornamental design for a wine display unit, as shown and described.

166,362
HANDBAG OR SIMILAR ARTICLE
Maurice A. Spector, New York, N. Y.
Application April 25, 1951, Serial No. 14,947
Term of patent 14 years
(Cl. D87—3)



The ornamental design for a handbag or similar article, substantially as shown and described.

166,363
SHORTS
Trent B. Terry, Charlottesville, Va.
Application March 17, 1949, Serial No. 1,437
Term of patent 14 years
(Cl. D3—17)



The ornamental design for shorts, substantially as shown.

166,364
TELEVISION REMINDER
George D. Thornton, Berkley, Mich., assignor of one-half to Ernest W. Hanson, Hazel Park, Mich.
Application February 8, 1951, Serial No. 14,150
Term of patent 14 years
(Cl. D74—5)



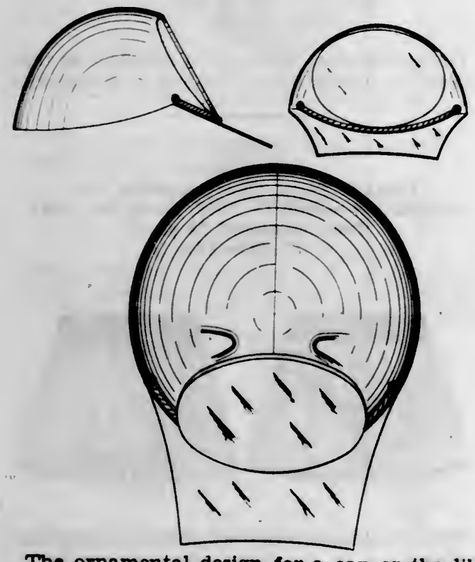
The ornamental design for a television reminder, as shown.

166,365
HAMBURGER MOLD OR SIMILAR ARTICLE
George W. Thorward, Caldwell, N. J.
Application August 14, 1951, Serial No. 16,265
Term of patent 3½ years
(Cl. D44—1)



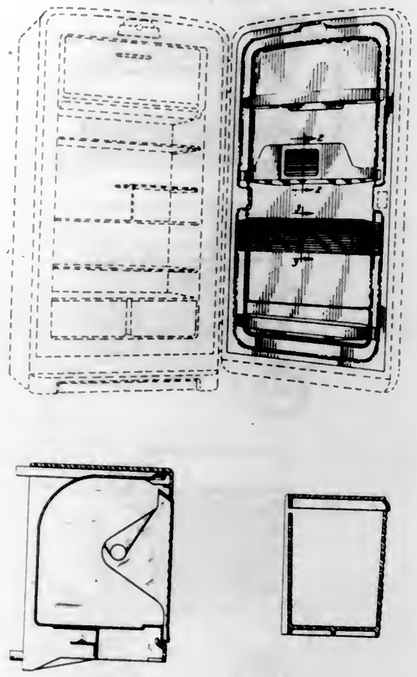
The ornamental design for a hamburger mold or similar article, as shown.

166,366
CAP OR THE LIKE
Caroline O. Todd, Miami, Fla.
Application September 13, 1951, Serial No. 16,620
Term of patent 14 years
(Cl. D3—13)



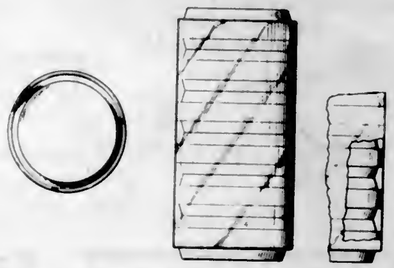
The ornamental design for a cap or the like, substantially as shown.

166,367
REFRIGERATOR CABINET
John H. Walter, Grosse Pointe, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application August 20, 1951, Serial No. 16,376
Term of patent 14 years
(Cl. D67—3)



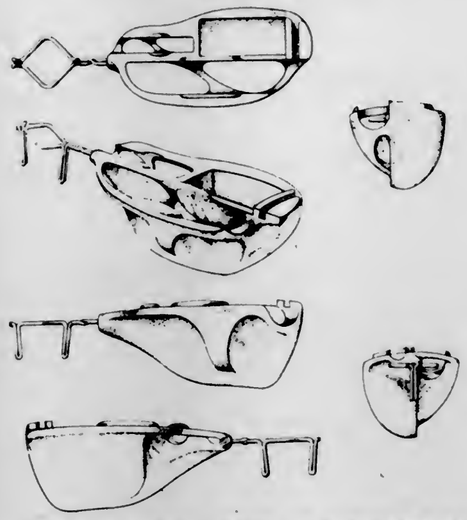
The ornamental design for a refrigerator cabinet, substantially as shown and described.

166,368
COMBINED SETS OF COASTERS AND PACKAGE THEREFOR OR SIMILAR ARTICLE
Per E. Wenander, Cincinnati, Ohio,
Application February 25, 1950, Serial No. 8,111
Term of patent 7 years
(Cl. D58—15)



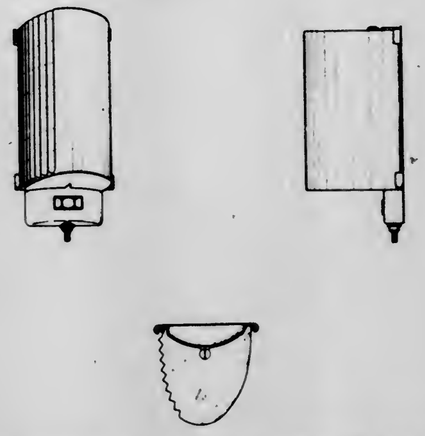
The ornamental design for combined sets of coasters and package therefor or similar article, as shown.

166,369
SMOKER'S ACCESSORY
Elmer L. White, Evanston, Ill.
Application November 12, 1949, Serial No. 5,994
Term of patent 14 years
(Cl. D85—4)



The ornamental design for a smoker's accessory, substantially as shown.

166,370
LIGHTING FIXTURE
Paul D. Wilson, Greensburg, Pa., assignor to Imperial Lighting Products Company, Inc., Greensburg, Pa., a corporation of Pennsylvania
Application November 17, 1950, Serial No. 13,036
Term of patent 14 years
(Cl. D48—4)



The ornamental design for a lighting fixture as shown.

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Abbott Laboratories, North Chicago, Ill. Medicinal tablets. Serial No. 611,747, Apr. 8. Class 18.

Aktiebolaget Bofors, Bofors, Sweden. Crystalline chemical preparations. Serial No. 600,937, Apr. 8. Class 6.

Alliance Color & Chemical Company, Newark, N. J. Stabilized azoic dyestuffs. Serial No. 619,733, Apr. 8. Class 6.

Allis, Charles S., Wichita, Kans. Restaurant services. Serial No. 609,350, published Apr. 8. Class 100.

Alma Dairy Products Association, Alma, Wis. Dried milk solids. Serial No. 613,961, Apr. 8. Class 46.

American Agricultural Chemical Company, The, New York, N. Y. Phosphorus; compositions containing phosphorus. Serial No. 599,211, Apr. 8. Class 6.

American Butter Institute, Inc., Chicago, Ill. Newspaper column. Serial No. 613,894, Apr. 8. Class 38.

American Chemical Paint Company, Ambler, Pa. Chemical preparations. Serial No. 618,195, Apr. 8. Class 6.

American Crayon Company, The, Sandusky, Ohio. White and colored chalk crayons. Serial No. 619,913, Apr. 8. Class 37.

American Jersey Cattle Club, The, Columbus, Ohio. Liquid milk. Serial No. 589,060, Apr. 8. Class 46.

American Tack Co., Inc., New York, N. Y. Thumb tacks. Serial No. 592,295, Apr. 8. Class 13.

Amos, Robert W., Lincoln, Nebr. Plant food for fertilizing purposes. Serial No. 609,022, Apr. 8. Class 10.

Anchor Coupling Company, Inc., Libertyville, Ill. Fabric reinforced hose. Serial No. 608,262, Apr. 8. Class 35.

Andy's Dinner House: *See*—
Mackis, Andrew.

Anela Co.: *See*—
Gust, Robert P.

Arkwright Finishing Company, Providence, R. I. Tracing cloth. Serial No. 567,170, Apr. 8. Class 37.

Ascher, B. F., & Company, Inc., Kansas City, Mo. Medicinal preparations. Serial No. 612,112, Apr. 8. Class 18.

Associated Plastic Companies, Inc., Chicago, Ill. Ice-cube cups. Serial No. 602,357, Apr. 8. Class 31.

Avon Sole Company, Avon, Mass. Shoe soles. Serial No. 599,858, Apr. 8. Class 39.

Ayerst, McKenna & Harrison Limited, Rouses Point and New York, N. Y. Mercurial diuretic. Serial No. 617,781, Apr. 8. Class 18.

Balasky, Karl, doing business as Tropic-Art Novelty Manufacturers, Miami, Fla. Novelty souvenir toy banks. Serial No. 617,529, Apr. 8. Class 22.

Barker, Percy, San Mateo, Calif. Fruit and berry preserves. Serial No. 549,871, Apr. 8. Class 46.

Barricini, Inc., New York, and Long Island City, N. Y. Candy, candied and chocolate covered nuts; and candied fruits. Serial No. 603,330, Apr. 8. Class 46.

Barwick, E. T., Mills: *See*—
Barwick, Eugene T.

Barwick, Eugene T., doing business as E. T. Barwick Mills, Chamblee, Ga. Cotton textile products. Serial No. 613,319, Apr. 8. Class 42.

Beacon Looms Inc., New York, N. Y. Window curtains and curtain fabrics in the piece. Serial No. 615,529, Apr. 8. Class 42.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets; bed comfortables; quilts; etc. Serial No. 561,795, Apr. 8. Class 42.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets; bed comfortables; quilts; etc. Serial No. 563,995, Apr. 8. Class 42.

Belmont Clothes, Inc., Baltimore, Md. Men's and young men's suits, trousers, slacks, etc. Serial Nos. 618,018–19, Apr. 8. Class 39.

Bergstrom & French Company, Los Angeles, Calif. Pottery garden jardenieres, pottery flower pots, pottery saucers for flower pots, etc. Serial No. 613,834, Apr. 8. Class 30.

Berkowitz, A., Co., Chicago, Ill. Fresh tomatoes. Serial No. 606,116, Apr. 8. Class 46.

Bettschen, Oscar, New York, N. Y. Watches, clocks and parts thereof. Serial No. 609,159, Apr. 8. Class 27.

Borg Welding & Manufacturing Co.: *See*—
Borg, William D.

Borg, William D., doing business as Borg Welding & Manufacturing Co., Los Angeles, Calif. Horse-carrying trailers. Serial No. 586,463, Apr. 8. Class 19.

Boutell Manufacturing Company, Inc., Rochester, N. Y. Canning machinery. Serial No. 561,551, Apr. 8. Class 23.

Bradley Candy Co.: *See*—
Bradley Candy Mfg. Co.

Bradley Candy Mfg. Co., doing business as Bradley Candy Co., Nashville, Tenn. Candy. Serial No. 594,827, Apr. 8. Class 46.

Broadacre Dairies, Inc., Powell Station, Tenn. Frozen confections. Serial No. 580,013, Apr. 8. Class 46.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics in the piece. Serial No. 619,226, Apr. 8. Class 42.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics in the piece. Serial Nos. 621,451–2, Apr. 8. Class 42.

Burnhouse Animal Products Limited, Lisburn, Northern Ireland. Fire extinguishing compositions and compounds. Serial No. 618,783, Apr. 8. Class 6.

Burt Brothers (Hosiery) Limited, Nottingham, England. Men's, women's, children's wearing apparel. Serial No. 603,182, Apr. 8. Class 39.

Butler Brothers, Chicago, Ill. Suspenders, mufflers, apparel belts, etc. Serial No. 567,903, Apr. 8. Class 39.

Calgon, Incorporated, Pittsburgh, Pa. Chemical compound. Serial No. 602,304, Apr. 8. Class 6.

Calgon, Incorporated, Pittsburgh, Pa. Regenerating salt. Serial No. 622,325, Apr. 8. Class 6.

Carstairs Bros. Distilling Co., Inc., New York, N. Y. Alcoholic beverages. Serial No. 608,236, Apr. 8. Class 49.

Castro, Anthony N., doing business as Castro & Son, Los Angeles, Calif. Fresh vegetables. Serial No. 618,343, Apr. 8. Class 46.

Castro & Son: *See*—
Castro, Anthony N.

Caswell-Massey Co. Ltd., New York, N. Y. Cologne water. Serial No. 606,506, Apr. 8. Class 51.

Celcure Wood Preserving Corporation, Jacksonville, Fla. Lumber. Serial No. 573,917, Apr. 8. Class 12.

Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Photographic, photoengraving, and photomechanical supplies. Serial Nos. 600,118–19, Apr. 8. Class 37.

Chicago Towel Company, Chicago, Ill. Towel cabinets. Serial No. 600,648, Apr. 8. Class 32.

Chicken Bye Bye: *See*—
Commons, Robert D.

Chr. Bjelland & Co., A/S, Stavanger, Norway, and New York, N. Y. Canned sardines. Serial No. 614,387, Apr. 8. Class 46.

Christina, Vincent & Company, Inc., New York, N. Y. Medicinal preparations. Serial No. 502,560, Apr. 8. Class 18.

Clementon Hosiery Mill: *See*—
Lihn, Manuel M.

Cleveland Metal Awning, Inc., Cleveland, Ohio. Metal awnings. Serial No. 599,614, Apr. 8. Class 12.

Clinton Foods Inc.: *See*—
Juice Industries, Inc.

Collins & Aikman Corporation, Philadelphia, Pa. Piece goods. Serial No. 621,053, Apr. 8. Class 42.

Colorado Milling & Elevator Co., The, doing business under the style name of The Monte Vista Flour Mills, Denver, Colo. Wheat flour. Serial No. 556,319, Apr. 8. Class 46.

Colorado Milling & Elevator Co., The, doing business under the name and style of St. Anthony Flour Mills, Denver, Colo. Wheat flour. Serial No. 564,436, Apr. 8. Class 46.

Columbian Steel Tank Company, Kansas City, Mo. Welded steel pipe; welded steel casing for wells and the like; and tank floats. Serial No. 578,372, Apr. 8. Class 13.

Commons, Robert D., doing business under the assumed name of Chicken Bye Bye, Muskegon, Mich. Cooked poultry. Serial No. 607,797, Apr. 8. Class 46.

Cone Export and Commission Co., Inc., New York, N. Y. Cotton piece goods. Serial No. 621,258, Apr. 8. Class 42.

Consolidated Cosmetics, Chicago, Ill. Liquid brilliantine and solid brilliantine. Serial No. 607,799, Apr. 8. Class 51.

Continental Screw Company, New Bedford, Mass. Screws. Serial No. 549,619, Apr. 8. Class 13.

Cook Coffee Company, The, Cleveland, Ohio. Fruit flavored powdered preparation. Serial No. 590,426, Apr. 8. Class 45.

Cotton States Chemical Co., Inc., West Monroe, La. Emulsifiable insecticide concentrates. Serial No. 608,201, Apr. 8. Class 6.

Craddock-Terry Shoe Corporation, Lynchburg, Va. Shoes. Serial No. 561,297, Apr. 8. Class 39.

Cranberry Growers, Inc., Wisconsin Rapids, Wis. Fresh cranberries. Serial No. 606,856, Apr. 8. Class 46.

Cresca Company, Inc., New York, N. Y. Anchovy paste, bacon rinds, bar le duc, caviar, etc. Serial No. 599,553, Apr. 8. Class 46.

Curtis, Francis J.: *See*—
Lifter Bottling Company of Chicago.

Cussins and Fearn Company, The, Columbus, Ohio. Lawnmowers, fertilizer spreaders, garden and farm implements. Serial No. 552,953, Apr. 8. Class 23.

Cyclemaster Limited, South Kensington, London, England. Motorized wheels equipped with or without reduction gearing. Serial No. 609,401, Apr. 8. Class 23.

Delham Food Products Co., Inc., Cambridge, Mass. Dog food. Serial No. 595,454, Apr. 8. Class 46.

Delightform Foundations, Inc., Easton, Pa. Brassières, garter belts, girdles, and slips. Serial No. 601,539, Apr. 8. Class 39.
DePuy Manufacturing Company, Inc., Warsaw, Ind. Fracture appliances. Serial No. 605,469, Apr. 8. Class 44.
Douglas Fir Plywood Association, Tacoma, Wash. Plywood. Serial No. 596,782, Apr. 8. Class 12.
Dri-Clad Corporation: *See*—
Shanhouse, W., Sons, Incorporated.
Drumon Fine Foods: *See*—
Hardy, Martha D.
El Chico Cafe, Dallas, Tex. Canned goods. Serial No. 607,583, Apr. 8. Class 46.
Enso-Gutzeit Osakeyhtiö, Helsingfors, Finland. Products of mill-board, card-board, and cellulose. Serial No. 576,746, Apr. 8. Class 12.
Everlast Metal Products Corp., New York, N. Y. Sugar bowls, cream pitchers, water pitchers, etc. Serial No. 586,237, Apr. 8. Class 13.
Executive Television Corporation, The, Danbury, Conn. Deodorant to absorb household odors. Serial No. 605,852, Apr. 8. Class 6.
F. D. S. Manufacturing Company, Pomona, Calif. Ventilated cushion-like pads, made of corrugated paper. Serial No. 607,749, Apr. 8. Class 37.
Fearn Foods Inc.: *See*—
Fearn Laboratories, Inc.
Fearn Laboratories, Inc., Franklin Park, Ill., now by change of name Fearn Foods Inc. Canned soups, soup bases in paste form and canned soup concentrates; etc. Serial No. 519,640, Apr. 8. Class 46.
Filice & Perrelli Canning Company, Inc., Richmond, Calif. Canned fruits and canned vegetables. Serial No. 541,118, Apr. 8. Class 46.
Flour Mills of America, Inc., doing business as The Kansas Flour Mills Company and also under the name of Valler & Spies Milling Co., Kansas City, Mo. Wheat flour. Serial No. 552,555, Apr. 8. Class 46.
Friendship Dairies, Inc., New York, N. Y. Cheese. Serial No. 608,305, Apr. 8. Class 46.
Fritz, Walter E., doing business as The Landing Knitting Co., Landingville, Pa. Infant's shirts and training panties; men's and boys' briefs, etc. Serial No. 607,424, Apr. 8. Class 39.
General Felt Products Co., Chicago, Ill. Rug and carpet cushions. Serial No. 600,954, Apr. 8. Class 50.
Goodman Manufacturing Company, Chicago, Ill. Shaker conveyor loading heads. Serial No. 616,425, Apr. 8. Class 23.
Goodman & Thelse, Inc., New York, N. Y. Piece goods. Serial No. 621,460, Apr. 8. Class 42.
Gosch, William H., Reading, Pa. Women's hosiery. Serial No. 612,066, Apr. 8. Class 39.
Graham, J. H., Inc., Cleveland, Ohio. Apparatus for use in cleaning machinery and machine parts. Serial No. 544,077, Apr. 8. Class 23.
Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Medals, badges, plaques, etc. Serial No. 607,989, Apr. 8. Class 28.
Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Medals, badges, plaques, etc. Serial No. 607,996, Apr. 8. Class 28.
Grant, Gerald M. M., doing business under the fictitious name Insulating Aggregates Co., Los Angeles and Bishop, Calif. Plaster aggregates. Serial No. 596,639, Apr. 8. Class 12.
Grant, Gerald M. M., doing business under the fictitious name Insulating Aggregates Co., Los Angeles and Bishop, Calif. Plaster aggregate. Serial No. 596,640, Apr. 8. Class 12.
Gray, Julia C., Manteo, N. C. Dolls and doll clothing. Serial No. 620,208, Apr. 8. Class 22.
Green Thumb Publisher, Inc., St. Petersburg, Fla. Periodical. Serial No. 619,081, Apr. 8. Class 38.
Grove Laboratories, Inc., The, St. Louis, Mo. Shampoo. Serial No. 615,637, Apr. 8. Class 52.
Gum Laboratories, Inc., Clifton Heights, Pa. Chewing gum. Serial No. 521,130, Apr. 8. Class 46.
Gust, Robert P., doing business under the style name of Anela Co., Chicago, Ill. Preparation for grooming finger nails. Serial No. 616,956, Apr. 8. Class 51.
Hachmeister-Inc., Pittsburgh, Pa. Tile cement. Serial No. 604,846, Apr. 8. Class 12.
Hamm, Theo., Brewing Co., St. Paul, Minn. Beer. Serial No. 614,772, Apr. 8. Class 48.
Hardie Brothers Company, Pittsburgh, Pa. Candy. Serial No. 612,257, Apr. 8. Class 46.
Hardy, Martha D., doing business as Drumon Fine Foods, New Orleans, La. Meatless stuffing and giblet stuffing. Serial No. 616,702, Apr. 8. Class 46.
Harnly Weatherstrip Company, Chicago, Ill. Weatherstrip. Serial No. 612,544, Apr. 8. Class 12.
Harrison Products, Inc., San Francisco, Calif. Tablet preparation. Serial No. 617,196, Apr. 8. Class 18.
Hartz Mountain Products, New York, N. Y. Birds. Serial No. 617,293, Apr. 8. Class 1.
Heller, B., & Company, Chicago, Ill. Food flavorings and extracts. Serial No. 595,319, Apr. 8. Class 46.
Henry Valve Company, Melrose Park, Ill. Make and break quick couplers. Serial No. 593,987, Apr. 8. Class 13.
Hodgson, Peter, New Haven, Conn. The plastic known as organic silicone designed and sold for use as a modeling clay and amusement device. Serial No. 594,970, Apr. 8. Class 22.
Holland Shade Company, The, New York, N. Y. Woven split bamboo window curtains and draperies, etc. Serial No. 586,483, Apr. 8. Class 42.
Hollister, Franklin C., Co.: *See*—
Schneider, John D.
Home Machine Supply, Inc., New York, N. Y. Sewing machines and parts thereof. Serial No. 618,210, Apr. 8. Class 23.
Hopkins, J. L., & Co., Brooklyn, N. Y. Preparation that is used as a base in the manufacture of cosmetic lotions, toiletries, etc. Serial No. 610,689, Apr. 8. Class 51.
Howse, Mead & Sons, Inc., New York, N. Y. Worsted fabrics. Serial No. 617,876, Apr. 8. Class 42.
Hudson, H. D., Manufacturing Company, Chicago, Ill. Portable electric power sprayers. Serial No. 601,920, Apr. 8. Class 21.
Hysan Products Company, Chicago, Ill. Apparatus for attachment to doors for automatic dispensing of chemicals, etc. Serial No. 611,277, Apr. 8. Class 13.
Industriaktiebolaget Luxor, Motala, Sweden. Electric phonographs, magnetic discs, tape and wire, etc. Serial No. 607,707, Apr. 8. Class 21.
Insulating Aggregates Co.: *See*—
Grant, Gerald M. M.
Intercontinental Hotels Corporation, New York, N. Y. Hotel development services. Serial No. 566,150, Apr. 8. Class 100.
International Latex Corporation, Dover, Del. Water-proof baby pants. Serial No. 618,497, Apr. 8. Class 39.
Jackson, S. D., Company, Lowell, Mass. Preparation for use as a local anodyne. Serial No. 612,617, Apr. 8. Class 18.
Jamaica Food Co., Brooklyn, N. Y. Canned goods. Serial No. 609,341, Apr. 8. Class 46.
Jamestown Finishing Products, Inc., Jamestown, N. Y. Plastic sheet material simulating leather. Serial No. 593,276, Apr. 8. Class 50.
Johnson, S. C., & Son, Inc., Racine, Wis. Cleaning composition. Serial No. 617,348, Apr. 8. Class 52.
Juice Industries, Inc., Dunedin, Fla., assignor to Clinton Foods Inc., St. Louis, Mo. Concentrated orange juice. Serial No. 584,042, Apr. 8. Class 46.
Kansas Flour Mills Company, The: *See*—
Flour Mills of America, Inc.
Kelco Company, San Diego, Calif. Amine alginate. Serial No. 619,704, Apr. 8. Class 6.
Kent-Moore Organization Inc., Detroit, Mich. Electrically driven vacuum cleaner. Serial No. 561,750, Apr. 8. Class 21.
Kinevox Incorporated, Burbank, Calif. Magnetic sound recording equipment. Serial No. 602,846, Apr. 8. Class 21.
King Midas Flour Mills: *See*—
Van Dusen Harrington Co.
King Midas Mill Company: *See*—
Van Dusen Harrington Co.
Kingsboro Silk Mills, Inc., Chattanooga, Tenn. Brassières, corsets, bandeaux, corset and brassière combinations, etc. Serial No. 611,901, Apr. 8. Class 39.
Knauf & Tesch Company, Chilton, Wis. Dairy feed, chick scratch, hen scratch, etc. Serial No. 618,747, Apr. 8. Class 46.
Knight, John B., Sr., doing business as Old 97 Company, Tampa, Fla. Cosmetics. Serial No. 613,412, Apr. 8. Class 51.
Koppers Company, Inc., Pittsburgh, Pa. Piston rings. Serial No. 618,169, Apr. 8. Class 35.
Krause, Chas. A., Milling Co., Milwaukee, Wis. Flakes made from white or yellow corn. Serial No. 534,152, Apr. 8. Class 46.
Kress, S. H., and Company, New York, N. Y. Writing tablets, albums, composition books, etc. Serial No. 618,261, Apr. 8. Class 37.
Laboratories Busto: *See*—
Sofia Del Busto Razon.
Laclede Steel Company, St. Louis, Mo. Steel products. Serial No. 568,312, Apr. 8. Class 13.
Landing Knitting Co., The: *See*—
Fritz, Walter E.
Lasso Tapes, Inc., New York, N. Y. Flexible adhesive tape. Serial No. 617,114, Apr. 8. Class 44.
Latis-Lyt, Inc., Culver City, Calif. Woven fabric. Serial No. 601,501, Apr. 8. Class 42.
Lea Foods, Inc., Albert Lea, Minn. Dried buttermilk powder. Serial No. 592,639, Apr. 8. Class 46.
Lee, Frank H., Company, The, Danbury, Conn. Men's, women's and boys' hats, men's and boys' caps, etc. Serial No. 607,085, Apr. 8. Class 39.
Lennox Furnace Co., The, Marshalltown, Iowa. Prefabricated metal buildings, porches, and shelters. Serial No. 594,649, Apr. 8. Class 12.
Leonards, Fort Worth, Tex. Men's suits, sport coats and topcoats. Serial No. 617,408, Apr. 8. Class 39.
Levy Brothers Dry Goods Company, Houston, Tex. Bath towels, linen towels, wash cloths, etc. Serial No. 615,128, Apr. 8. Class 42.
Lifter Bottling Co. of Chicago: *See*—
Lifter Bottling Company of Chicago.
Lifter Bottling Company of Chicago, F. J. Curtis, receiver in Bankruptcy of said Lifter Bottling Co. of Chicago, assignor to D. Shuman, Chicago, Ill. Non-alcoholic, maltless beverage. Serial No. 540,544, Apr. 8. Class 45.

Lihn, Manuel M., doing business as Clementon Hosiery Mill, Clementon, N. J. Ladies' hosiery. Serial No. 589,792, Apr. 8. Class 39.
Lucky Strike Perfumeries Corporation, New York, N. Y. Shaving cream. Serial No. 612,021, Apr. 8. Class 51.
Lupco, Joseph A., Wilkes-Barre, Pa. General accounting and bookkeeping relative to tax analysis. Serial No. 534,038, Apr. 8. Class 101.
Maatschappij, Ago, N. V., Ter-Apel, Netherlands. Parts of textile machinery and accessories therefor. Serial No. 599,249, Apr. 8. Class 23.
Mackis, Andrew, doing business as Andy's Dinner House, Sacramento, Calif. Salad dressing. Serial No. 600,061, Apr. 8. Class 46.
Marbel Products Co., Seattle, Wash. Fur cleaning and glazing kit. Serial No. 584,245, Apr. 8. Class 52.
Masland, C. H., & Sons, Carlisle, Pa. Sportswear. Serial No. 614,090, Apr. 8. Class 39.
Mason Plastics Co., Inc., Kansas City, Kans. Treating bowling pins, tool handles and other articles. Serial No. 609,368, Apr. 8. Class 103.
Masterpiece Foods, Inc., Santa Maria, Calif. Canned green chili peppers, canned tomatoes, canned tomato paste, etc. 604,982, Apr. 8. Class 46.
Matson, Harold C., doing business as Vanmat Company, Albert Lea, Minn. Home humidifiers. Serial No. 614,834, Apr. 8. Class 34.
McCormick & Company, Incorporated, Baltimore, Md. Mixture of cinnamon and sugar for use in flavoring and sweeting comestibles. Serial No. 618,120, Apr. 8. Class 46.
McGraw-Hill International Corporation, New York, N. Y. Monthly pharmaceutical publication. Serial No. 618,975, Apr. 8. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazines. Serial No. 618,976, Apr. 8. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Magazine. Serial Nos. 618,979–80, Apr. 8. Class 38.
McGraw-Hill Publishing Company, Inc., New York, N. Y. Monthly bulletin. Serial No. 618,981, Apr. 8. Class 38.
Merck & Co., Inc., Rahway, N. J. Hormonal substance. Serial No. 612,027, Apr. 8. Class 18.
Meridian Plastics, Inc., Byesville, Ohio. Laminated plastic wallboard, wall covering and wall tile. Serial No. 601,112, Apr. 8. Class 12.
Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Women's hats and hat bodies. Serial No. 525,648, Apr. 8. Class 39.
Merrimac Hat Corporation, New York, N. Y. Men's, women's and children's hats and hat bodies. Serial No. 596,430, Apr. 8. Class 39.
Miami Margarine Company, The, Cincinnati, Ohio. Margarine. Serial No. 592,042, Apr. 8. Class 46.
Michaud, A., Co.: *See*—
Michaud, Abner.
Michaud, Abner, doing business as A. Michaud Co., Philadelphia, Pa. Fresh meat. Serial No. 553,120, Apr. 8. Class 46.
Micro Balancing, Incorporated, Garden City Park, Mineola, N. Y. Balancing machine. Serial No. 606,717, Apr. 8. Class 26.
Mill Creek Products, Inc., Kansas City, Mo. Chemical catalyst. Serial No. 593,807, Apr. 8. Class 6.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Coated abrasives. Serial No. 611,907, Apr. 8. Class 4.
Monsanto Chemical Company, St. Louis, Mo. Alcohols and solid, liquid and gaseous carbon dioxide. Serial No. 588,314, Apr. 8. Class 6.
Monte Vista Flour Mills, The: *See*—
Colorado Milling & Elevator Co., The.
Morgan-Sabalol Products, Inc., New York, N. Y. Fungistatic ointment and powder. Serial No. 617,093, Apr. 8. Class 18.
Morris Garment Company: *See*—
Morris, William P.
Morris, William P., doing business as Morris Garment Company, Hobbs, N. Mex. Men's, boys', women's as well as girls' garments. Serial No. 562,565, Apr. 8. Class 39.
Mother's Food Products, Inc., Newark, N. J. Borscht. Serial No. 575,421, Apr. 8. Class 46.
Moyer Manufacturing Company, The, Youngstown, Ohio. Men's and boys'-slacks. Serial No. 616,861, Apr. 8. Class 39.
Mutual Orange Distributors, Redlands, Calif. Fresh citrus fruits. Serial No. 560,343, Apr. 8. Class 46.
National Cash Register Company, The, Dayton, Ohio. Cement. Serial No. 608,883, Apr. 8. Class 5.
National Tank Company, Tulsa, Okla. Liquid level float actuated pilot valve controls. Serial No. 591,693, Apr. 8. Class 13.
Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. Serial No. 616,776, Apr. 8. Class 42.
Naumkeag Steam Cotton Company, Salem, Mass. Sheets and pillow cases. Serial No. 621,720, Apr. 8. Class 42.
Nedlog Company, The, Chicago, Ill. Grape juices, concentrates, emulsions, etc. Serial No. 587,044, Apr. 8. Class 45.
Nettlefold-Stenman Hinges Limited, Cardiff, Wales. Builders' hardware and metallic furniture fittings. Serial No. 619,947, Apr. 8. Class 13.
New Era Shirt Company, St. Louis, Mo. Men's outer shirts. Serial No. 586,032, Apr. 8. Class 39.
New Jersey Egg Institute, Inc., Toms River, N. J. Fresh shell eggs. Serial No. 609,562, Apr. 8. Class 46.
Ninol Laboratories, Chicago, Ill. Emulsifying and dispersing agents. Serial No. 618,122, Apr. 8. Class 6.
Novel Products Co., Long Island City, N. Y. Jewelry. 615,403, Apr. 8. Class 28.
Old 97 Company: *See*—
Knight, John B., Sr.
Olean Tile Company, Inc., The, Olean, N. Y. Flooring and wall tiles. Serial No. 588,994, Apr. 8. Class 12.
Pacific Coast Engineering Company, Alameda, Calif. Metal fittings. Serial No. 596,623, Apr. 8. Class 13.
Pacific Mill, Boston, Mass., and New York, N. Y. Rayon piece goods. Serial No. 615,078, Apr. 8. Class 42.
Pangborn Corporation, Hagerstown, Md. Granular abrasive materials. Serial No. 601,560, Apr. 8. Class 4.
Parker-Shields Mfg. Co.: *See*—
Shields, Garry H.
Patterson-Sargent Company, The, Cleveland, Ohio. Ready-mixed paints. Serial No. 566,396, Apr. 8. Class 16.
Paulus Bros. Packing Co., Salem, Oreg. Canned fruits and vegetables. Serial No. 538,163, Apr. 8. Class 46.
Penick, S. B., & Company, New York, N. Y. Synergist for insecticides. Serial No. 601,371, Apr. 8. Class 6.
Perfect Circle Corporation, Hagerstown, Ind. Piston rings. Serial No. 618,178, Apr. 8. Class 35.
Periflex, Inc., Hazel Park, Mich. Hydraulic and pneumatic packings. Serial No. 617,728, Apr. 8. Class 35.
Plant Bros. Co., San Francisco, Calif. Portable baby pens. Serial No. 614,511, Apr. 8. Class 32.
Pollak, Henry, Inc., New York, N. Y. Hat bodies. Serial No. 617,418, Apr. 8. Class 39.
Portner's Home Bakery Inc., Margate City, N. J. Individual buttered cinnamon buns. Serial No. 616,447, Apr. 8. Class 46.
Powers Regulator Company, The, Chicago, Ill. Control valves. Serial No. 592,839, Apr. 8. Class 13.
Pressing Supply Company, Philadelphia, Pa. Ironing board pads and ironing board pad covers. Serial No. 571,875, Apr. 8. Class 24.
Preston-Shaffer Milling Co., Walla Walla, Wash. Wheat flour. Serial No. 571,991, Apr. 8. Class 46.
Primrose House, Inc., Indianapolis, Ind. Dry skin mixture, foundation lotion, skin cream. Serial No. 592,518, Apr. 8. Class 51.
Puccia, P., Company: *See*—
Puccia, Philip L.
Puccia, Philip L., doing business as P. Puccia Company, Hyde Park, Boston, Mass. Garlic heads. Serial No. 604,861, Apr. 8. Class 46.
Pure Oil Company, The, Chicago, Ill. Tube repair kit, fan belts, radiator hose, etc. Serial No. 604,222, Apr. 8. Class 35.
R. O. W. Sales Company, Ferndale, Mich. Metallic sash guide strips, metallic sealing strips for windows and window frames. Serial No. 591,955, Apr. 8. Class 12.
Radiant Manufacturing Corp., Chicago, Ill. Glass beaded fabrics. Serial No. 585,812, Apr. 8. Class 50.
Radiator Specialty Company, Charlotte, N. C. Car wash and auto cooling system cleanser, and for boiler cleaning compounds. Serial No. 611,978, Apr. 8. Class 52.
Ralston Purina Company, St. Louis, Mo. Whole wheat cereal breakfast food. Serial No. 554,045, Apr. 8. Class 46.
Revlon Products Corporation, New York, N. Y. Nail enamel. Serial No. 578,285, Apr. 8. Class 51.
River Brand Rice Mills, Inc., New York, N. Y. Rice. Serial No. 542,657, Apr. 8. Class 46.
Rosenberg, Louis, trading as The Thrive Company, Philadelphia, Pa. Dog and cat food. Serial No. 619,647, Apr. 8. Class 46.
Sagner's, A., Son, Baltimore, Md. Men's and women's coats and suits, men's trousers, dress and work shirts, etc. Serial No. 615,852, Apr. 8. Class 39.
St. Anthony Flour Mills: *See*—
Colorado Milling & Elevator Co., The.
Salem Commodities, Incorporated, doing business as Tuxedo Candy Company, Baltimore, Md., and Los Angeles, Calif. Marshmallows. Serial No. 608,088, Apr. 8. Class 46.
Samson United Corporation, Rochester, N. Y. Electric heating units. Serial No. 537,246, Apr. 8. Class 21.
Schneider, John D., doing business as Franklin C. Hollister Co., Chicago, Ill. Bands or bracelets of flexible material. Serial No. 610,380, Apr. 8. Class 50.
Schoenburg, Paul P., Salinas, Calif. Hair dressing. Serial No. 614,378, Apr. 8. Class 51.
Schonbrunn, S. A., & Co., Inc., New York, N. Y. Coffee and tea. Serial No. 565,655, Apr. 8. Class 46.
Schwartz, J. D., doing business as J. D. Schwartz Co., El Paso, Tex. Bleach. Serial No. 580,380, Apr. 8. Class 6.
Schwartz, J. D., Co.: *See*—
Schwartz, J. D.
Searle, G. D., & Co., Skokie, Ill. Steroid hormone preparation. Serial No. 617,129, Apr. 8. Class 18.

Seidlitz Paint & Varnish Co., Kansas City, Mo. Paint enamels and liquid undercoat. Serial No. 536,163, Apr. 8. Class 16.

Seneca Knitting Mills Co., Inc., Seneca Falls, N. Y. Slipper socks. Serial Nos. 604,037–8, Apr. 8. Class 39.

Shanhouse, W., Sons, Incorporated, assignor to Dri-Clad Corporation, Rockford, Ill. Men's and women's waterproof sports garments. Serial No. 589,808, Apr. 8. Class 39.

Shields, Garry H., doing business under the assumed business name of Parker-Shields Mfg. Co., Portland, Oreg. Telescopic lawn sprinkler. Serial No. 618,514, Apr. 8. Class 13.

Shuman, David: *See*—
Lifter Bottling Company of Chicago.

Siegfried, H., & Sons, Inc., St. Louis, Mo. Men's and boys' trousers and slacks. Serial No. 610,804, Apr. 8. Class 39.

Simmons Company, New York, N. Y. Metal spring components of mattresses. Serial No. 616,834, Apr. 8. Class 32.

Slik-Shav Incorporated, Detroit, Mich. Disposable pocket shaving kits. Serial No. 609,148, Apr. 8. Class 50.

Sofia Del Busto Razon, doing business under the name of Laboratorios Busto, Madrid, Spain. Medicine for the treatment of affections of the respiratory tract. Serial No. 598,115, Apr. 8. Class 18.

Soptra Fabrics, Inc., New York, N. Y. Cotton, rayon, and woolen piece goods. Serial No. 621,530, Apr. 8. Class 42.

Sovereign International Corporation, New York, N. Y. Cotton, rayon, and woolen piece goods. Serial No. 617,734, Apr. 8. Class 42.

Speed Products Company, Inc., Long Island City, N. Y. Clips and wire staples. Serial No. 551,331, Apr. 8. Class 13.

Spreckels Sugar Company, San Francisco, Calif. Sugar. Serial No. 607,611, Apr. 8. Class 46.

Squibb, E. R., & Sons, New York, N. Y. Drugs. Serial No. 617,099, Apr. 8. Class 18.

Standard Milling Company, Chicago, Ill. Flour mix. Serial No. 609,569, Apr. 8. Class 46.

Sterling Pulp & Paper Company, Eau Claire, Wis. Paper napkins, paper towels, toilet tissue, etc. Serial Nos. 618,060–1, Apr. 8. Class 37.

Stern, Merritt Co. Inc., New York, N. Y. Neckwear. Serial No. 611,046, Apr. 8. Class 39.

Stetson, John B., Company, Philadelphia, Pa. Hats and caps. Serial No. 616,573, Apr. 8. Class 39.

Stix, Baer and Fuller Company, St. Louis, Mo. Men's and boys' suits, topcoats, and sweaters. Serial No. 615,910, Apr. 8. Class 39.

Structural Clay Products Research Foundation, Chicago, Ill. Research and development in new products. Serial No. 614,318, Apr. 8. Class 100.

Structural Clay Products Research Foundation, Chicago, Ill. Research and development in new products. Serial No. 614,414, Apr. 8. Class 100.

Sturgis Products Company, The, Sturgis, Mich. Aggregates. Serial No. 582,326, Apr. 8. Class 4.

Sunshine Biscuits, Inc., Long Island City, N. Y. Crackers, biscuits, pretzels, wafers, cookies, etc. Serial No. 601,482, Apr. 8. Class 46.

Testagar & Co., Inc., Detroit, Mich. Tablet, a capsule or injectible for use in conditions complicated by obesity, psychic fatigue, etc. Serial No. 616,998, Apr. 8. Class 18.

Texasphaltic Company: *See*—
Welman, Warren, Jr.

Thomas Electronics, Inc., Passaic, N. J. Television tubes. Serial No. 619,554, Apr. 8. Class 21.

Thonet Brothers, Inc., assignor to Thonet Industries Inc., New York, N. Y. Furniture. Serial No. 568,409, Apr. 8. Class 32.

Thonet Industries Inc., assignee: *See*—
Thonet Brothers, Inc.

Thrivo Company, The: *See*—
Rosenberg, Louis.

Tonak, Továrny Na Klobouky, Národní Podnik, Novy Jicin, Czechoslovakia. Men's and boys' hats and hat bodies. Serial No. 608,481, Apr. 8. Class 39.

Trade Winds, Inc., Newark, N. J. Cleaner and polish. Serial No. 599,666, Apr. 8. Class 4.

Trianco Limited, East Molesey, England. Concrete block making machines; concrete mixing machines; hoists or elevators driven by gasoline engines, non-electric motors; etc. Serial No. 536,967, Apr. 8. Class 23.

Tropic-Art Novelty Manufacturers: *See*—
Balasky, Karl.

Tuxedo Candy Company: *See*—
Salem Commodities, Incorporated.

United Merchants and Manufacturers, Inc., New York, N. Y. Piece goods. Serial No. 621,239, Apr. 8. Class 42.

Universal Packing & Gasket Co., Houston, Tex. Phenolic base piston rings. Serial No. 604,457, Apr. 8. Class 35.

Universal Refining Products Co., Inc., New York, N. Y. Chemical compound. Serial No. 617,682, Apr. 8. Class 6.

V-M Corporation, Benton Harbor, Mich. Electric motor actuated combination automatic phonograph record changers and magnetic tape recorders. Serial No. 611,460, Apr. 8. Class 21.

Valier & Spies Milling Co.: *See*—
Flour Mills of America, Inc.

Van Dusen Harrington Co., Minneapolis, Minn., now by change of name from King Midas Mill Company, and also known as King Midas Flour Mills. Wheat flour. Serial No. 547,799, Apr. 8. Class 46.

Van Dusen Harrington Co., Minneapolis, Minn., by change of name from King Midas Mill Company. Wheat flour. Serial No. 580,551, Apr. 8. Class 46.

Vanmat Company: *See*—
Matson, Harold C.

Velveray Corporation, Clifton, N. J. Plastic film. Serial No. 608,133, Apr. 8. Class 42.

Video Products Corporation, Red Bank, N. J. Television receivers, combination radio and television sets, etc. Serial No. 578,945, Apr. 8. Class 21.

Video Products Corporation, Red Bank, N. J. Television receivers, combination radio and television sets, etc. Serial No. 604,604, Apr. 8. Class 21.

Vitaminerals, Inc., Glendale, Calif. Monthly magazine. Serial No. 618,776, Apr. 8. Class 38.

Waddle's Drive-In Coffee Shop, Portland, Oreg. Serving of food and beverages in restaurants and catering to gatherings outside of restaurants. Serial No. 602,526, Apr. 8. Class 100.

Walla Walla Canning Company, Walla Walla, Wash. Canned fruits and vegetables. Serial No. 613,274, Apr. 8. Class 46.

Walte of Hollywood Inc., Los Angeles and West Los Angeles, Calif. Oral preparation—namely, mouth wash. Serial No. 606,644, Apr. 8. Class 51.

Wasserman, S., & Son, Inc., New York, N. Y. Ladies' fur coats, ladies' cloth coats, ladies' fur capes, etc. Serial No. 596,371, Apr. 8. Class 39.

Weather-Proof Co., The, Cleveland, Ohio. Auxiliary doors. Serial No. 613,577, Apr. 8. Class 12.

Wella Corporation, The, New York, N. Y. Preparation for reconditioning, and dyeing the hair. Serial No. 614,324, Apr. 8. Class 51.

Welman, Warren, Jr., doing business as Texasphaltic Company, New Orleans, La. Net dip, toxic pine wood preserver, copper preservative, etc. Serial No. 608,689, Apr. 8. Class 6.

Williamson Candy Company, Chicago, Ill. Candy. Serial No. 590,207, Apr. 8. Class 46.

Wilson, Frank M., Company, Stockton, Calif. Canned tomato catsup and canned fruits. Serial No. 605,284, Apr. 8. Class 46.

Winn & Lovett Grocery Company, Jacksonville, Fla. Bread. Serial No. 619,173, Apr. 8. Class 46.

Wolf, Bernhard, Corp., New York, N. Y. Handkerchiefs. Serial No. 598,054, Apr. 8. Class 39.

Wollensak Optical Company, Rochester, N. Y. Binoculars. Serial No. 624,115, Apr. 8. Class 26.

Wood Conversion Company, St. Paul, Minn. Rigid fiber insulation board. Serial No. 582,546, Apr. 8. Class 12.

Wright Sales Company, Inc., Cleveland, Ohio. Venetian blind hardware. Serial No. 553,942, Apr. 8. Class 13.

Wyeth Incorporated, Philadelphia, Pa. Aluminum hydroxide. Serial No. 617,830, Apr. 8. Class 18.

LIST OF REGISTRANTS OF TRADE-MARKS

A. I. O. Company, Chicago, Ill., to V. B. Thompson, Port Washington, N. Y. Ointment. 283,219, renewed May 19, 1951. O. G. Apr. 8. Class 18.

Abbott, George E., & Co., Brooklyn, N. Y. Canned food products. 557,441, Apr. 8; Serial No. 618,137. Class 46.

Accurate Millinery Co., New York, N. Y. Hat bodies. 557,185, Apr. 8; Serial No. 587,453, published Jan. 2, 1951. Class 39.

Ace Engineering & Machine Co., Inc., Philadelphia, Pa. Shielding enclosures. 557,297, Apr. 8; Serial No. 605,776, published Jan. 8, 1952. Class 21.

Aerocrete Corporation of America, The, Rochelle Park, N. J. Ingredient to be introduced in cement mixes to expand the same into porous concrete. 557,249, Apr. 8; Serial No. 600,641, published Dec. 18, 1951. Class 12.

Agricola del Yumuri, S. A.: *See*—
Compania De Jarcia De Matanzas, S. A.

Air Reduction Company, Incorporated: *See*—
Pure Carbonic Company of America.

Albers Milling Company, Los Angeles, Calif., and Portland, Oreg. Feed for livestock. 557,339, Apr. 8; Serial No. 610,816, published Jan. 15, 1952. Class 46.

Aldridge, E. A., doing business as Chemco Products Company, assignor to R. W. Bruce, Los Angeles, Calif. Absorbent chemicals. 557,429, Apr. 8; Serial No. 488,951. Class 6.

Allied Chemical & Dye Corporation, New York, N. Y. Detergent. 557,241, Apr. 8; Serial No. 599,687, published Dec. 25, 1951. Class 52.

Allied Chemical & Dye Corporation, New York, N. Y. Fertilizers and ingredients of fertilizers. 557,260, Apr. 8; Serial No. 602,874, published Dec. 25, 1951. Class 10.

Allied Home Products Corporation, Beloit, Wis. Synthetic detergents. 557,112, Apr. 8; Serial No. 529,947, published Jan. 8, 1952. Class 52.

Allied Kid Company: *See*—
New Castle Leather Co.

Ambory Corporation, The, Hazel Park, Mich. Electrical immersion water heaters. 557,311, Apr. 8; Serial No 606,742, published Jan. 1, 1952. Class 21.

American Bleached Goods Company, Inc., New York, N. Y. Men's outer shirts. 557,196, Apr. 8; Serial No. 589,695, published Dec. 11, 1951. Class 39.

American Camping Association, Inc., Chicago, Ill. Periodicals. 557,227, Apr. 8; Serial No. 596,470, published Jan. 1, 1952. Class 38.

American Die & Tool Co., Inc., Reading, Pa., assignor to Q. C. and S. A. Sternbergh, copartners, trading and doing business as West Shore Machine Company. Tool holders. 557,283, Apr. 8; Serial No. 604,414, published Nov. 6, 1951. Class 23.

American Drug & Chemical Co., Minneapolis, Minn. Single preparation in the form of a white powder put up in colored capsules, used as a concentrated germicide, antiseptic and deodorant. 557,221, Apr. 8; Serial No. 595,818, published Nov. 27, 1951. Class 18.

American Electric Products Corp., New York, N. Y. Spark-plugs. 557,171, Apr. 8; Serial No. 580,866, published Jan. 1, 1952. Class 21.

American Metal Specialties Corporation, Hatboro, Pa. Toy cradle. 557,440, Apr. 8; Serial No. 613,753. Class 22.

American Rolling Mill Company, The, to Armco Steel Corporation, Middletown, Ohio. Galvanized iron and steel sheets. 290,355, renewed Jan. 5, 1952. O. G. Apr. 8. Class 14.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, Chicago, Ill., Pittsburgh, Pa., New York, N. Y., Worcester, Mass., and Hoboken, N. J., to The American Steel and Wire Company of New Jersey, Cleveland, Ohio. Wire. 290,358, renewed Jan. 5, 1952. O. G. Apr. 8. Class 14.

American Stores Company, Philadelphia, Pa. Window cleaner, wax, French dry cleaner, etc. 557,189, Apr. 8; Serial No. 588,623, published Dec. 25, 1951. Class 52.

American Stores Company, Philadelphia, Pa. Carcass beef; carcass veal; smoked beef loaf; etc. 557,261, Apr. 8; Serial No. 603,219, published Dec. 25, 1951. Class 46.

Amherst Fuel Company: *See*—
Amherst-Logan County Coal Corporation.

Amherst-Logan County Coal Corporation, to Amherst Fuel Company, Charleston, W. Va. Coal. 291,868, renewed Feb. 23, 1952. O. G. Apr. 8. Class 1.

Arden, Elizabeth, Inc., to Elizabeth Arden Sales Corporation, New York, N. Y. Lipsticks. 292,825, renewed Mar. 29, 1952. O. G. Apr. 8. Class 51.

Arden, Elizabeth, Sales Corporation: *See*—
Arden, Elizabeth, Inc.

Armco Steel Corporation: *See*—
American Rolling Mill Company, The.

Armour and Company, Chicago, Ill. Barrelled pork. 557,110, Apr. 8; Serial No. 526,915, published Jan. 22, 1952. Class 46.

Armour and Company, Chicago, Ill. Soap. 557,122, Apr. 8; Serial No. 543,864, published Jan. 8, 1952. Class 52.

Armour and Company, Chicago, Ill. Oleomargarine. 557,193, Apr. 8; Serial No. 589,240, published Jan. 15, 1952. Class 46.

Arnold, Schwinn & Co., Chicago, Ill. Bicycles. 557,347, Apr. 8; Serial No. 611,468, published Jan. 1, 1952. Class 19.

Arrow-Hart & Hegeman Electric Company, The, Hartford, Conn. Switches, plates, receptacles, and connecting devices for electrical wiring devices. 294,317, renewed May 24, 1952. O. G. Apr. 8. Class 21.

Art-Tex Adhesive Products, Inc., Brooklyn, N. Y. Wall texture preparation. 291,019, Jan. 26, 1932. Repuolished Apr. 8. Class 16.

Asbestolith Company, The, New York, to Asbestolith Manufacturing Corporation, Brooklyn, N. Y. Cement. 38,412, re-renewed June 3, 1952. O. G. Apr. 8. Class 12.

Asbestolith Manufacturing Corporation: *See*—
Asbestolith Company, The.

Atlantic Packing Co., The, Baltimore, Md. Fresh oysters. 557,207, Apr. 8; Serial No. 591,829, published Jan. 15, 1952. Class 46.

Atlas Imperial Diesel Engine Co., Oakland, Calif., to The National Supply Company, Pittsburgh, Pa. Internal-combustion engines. 294,189, renewed May 24, 1952. O. G. Apr. 8. Class 23.

Atsumori Tamenaga, Ebara-Gun, Tokyo, Japan, vested in the Attorney General of the United States, Washington, D. C. Ointment used for promoting the growth of hair. 289,995, renewed Dec. 22, 1951. O. G. Apr. 8. Class 51.

Attorney General of the United States, vested in the: *See*—
Atsumori Tamenaga, Ebara-Gun.

Automatic Range Co., Inc., Brooklyn and New York, N. Y. Gas burner valves. 557,138, Apr. 8; Serial No. 563,102, published Jan. 15, 1952. Class 34.

Automotive Advertisers Council, New Castle, Ind. Prepared advertising. 557,306, Apr. 8; Serial No. 606,409, published Oct. 2, 1951. Class 38.

B & B Engineering Corporation, Norwood, La. Spring driven gongs. 557,391, Apr. 8; Serial No. 613,895, published Jan. 8, 1952. Class 21.

Balbo Oil Co.: *See*—
Balbo Oil Corporation.

Balbo Oil Corporation, Brooklyn, N. Y., assignee of Balboa Oil Co. Olive oil. 557,100, Apr. 8; Serial No. 508,886, published Jan. 8, 1952. Class 46.

Ball, F. M., & Company, Oakland, Calif. Canned fruits, canned vegetables, canned fruit juices, etc. 557,119, Apr. 8; Serial No. 540,627, published Jan. 15, 1952. Class 46.

Barbara Jean Hosiery Company, Penndel, Pa. Women's hosiery. 557,390, Apr. 8; Serial No. 613,757, published Jan. 8, 1952. Class 39.

Barber Blade Co., The: *See*—
Mitchell, Glenn C., Sr.

Barber Razor Blade Co.: *See*—
Mitchell, Glenn C., Sr.

Barbour, G. E., Company Limited, St. John, New Brunswick, Canada. Tea and coffee. 557,352, Apr. 8; Serial No. 611,631, published Jan. 15, 1952. Class 46.

Barlow & Seeling Mfg. Co., by Speed Queen Corporation, Ripon, Wis. Laundry washing machines, laundry wringers, and water extraction devices, etc. 353,190, Dec. 28, 1937. Republished Apr. 8. Class 24.

Barlow & Seeling Mfg. Co., by Speed Queen Corporation, Ripon, Wis. Ironing machines. 368,725, June 27, 1939. Republished Apr. 8. Class 24.

Baumann, Marcia Pruitt, & Son, Los Angeles, Calif. Hair dressing. 557,170, Apr. 8; Serial No. 580,118, published Jan. 1, 1952. Class 51.

Baur, O. P., Confectionery Company, The, Denver, Colo. Candies, pastries, and confections. 557,128, Apr. 8; Serial No. 550,889, published Jan. 15, 1952. Class 46.

Beuler, William F., doing business as My Word Wheel Company, Belvidere, Ill. Vocabulary charts. 557,191, Apr. 8; Serial No. 588,930, published Jan. 1, 1952. Class 38.

Belknap Hardware and Manufacturing Company, Louisville, Ky. Wheelbarrows. 557,394, Apr. 8; Serial No. 613,965, published Jan. 1, 1952. Class 19.

Beloit Milling Company, Beloit, Ohio. Soft winter wheat pastry flour. 557,141, Apr. 8; Serial No. 563,893, published Jan. 8, 1952. Class 46.

Bendix Aviation Corporation, Detroit, Mich. Temperature and humidity indicating instruments. 557,442, Apr. 8; Serial No. 619,864. Class 26.

Berkeley Yeast Laboratory: *See*—
Fessler, Julius H.

Berning, Herbert C.: *See*—
Hall, William R., Berning, and Collins.

Bick, Hans C., Inc., Reading, Pa. Finishing of nylon and other woven or knit fabrics by applying an emulsified nylon finish coating thereon. 557,443, Apr. 8; Serial No. 612,237. Class 106.

Bickum, Dorothy, New York, N. Y. Undergarments for women, misses, and children. 290,409, renewed Jan. 5, 1952. O. G. Apr. 8. Class 39.

Bishop' G. H., Company, Chicago, Ill. Rack for supporting paper garment bags. 557,303, Apr. 8; Serial No. 606,258, published Jan. 15, 1952. Class 24.

Black, L. A., Rice Miller, De Witt, Ark. Rice. 557,275, Apr. 8; Serial No. 604,065, published Jan. 15, 1952. Class 46.

Borden Company, The, New York, N. Y. Monthly publication. 557,379, Apr. 8; Serial No. 612,892, published Jan. 1, 1952. Class 38.

Bordo Products Company, Chicago, Ill. Canned citrus food products. 557,362, Apr. 8; Serial No. 612,118, published Jan. 15, 1952. Class 46.

Botany Mills, Inc., Passaic, N. J. Soap. 557,244, Apr. 8; Serial No. 600,116, published Jan. 15, 1952. Class 52.

Boyle-Midway Inc., New York, N. Y. Liquid wax preparation. 557,197, Apr. 8; Serial No. 589,707, published Jan. 15, 1952. Class 4.

Bray & MacGeorge: *See*—
De Marco, Lewis D.

Bresduck, Inc., by Pearlduck, Inc., New York, N. Y. All manner and kinds of razors, shears, scissors, etc. 337,575, Aug. 11, 1936. Republished Apr. 8. Class 23.

Breaduck, Inc., by Pearlduck, Inc., New York, N. Y. All manner and kinds of razors, shears, scissors, etc. 343,665, Mar. 2, 1937. Republished Apr. 8. Class 23.

Bresduck, Inc., by Pearlduck, Inc., New York, N. Y. All manner and kinds of barbers' razors and shears. 369,417, July 25, 1939. Republished Apr. 8. Class 23.

Bridgeport Brass Company, Bridgeport, Conn. Insecticides. 557,317, Apr. 8; Serial No. 607,926, published Jan. 15, 1952. Class 6.

Brod, L., Company, Philadelphia, Pa. Women's, misses', and children's blouses. 557,386, Apr. 8; Serial No. 613,397, published Jan. 15, 1952. Class 39.

Brown Durrell Co., Cambridge, Mass., and New York, N. Y. Infants' and children's shirts, two piece undergarments, union suits, etc. 557,118, Apr. 8; Serial No. 539,022, published Jan. 15, 1952. Class 39.

Bruce, E. L., Company, Memphis, Tenn. Insecticides. 290,733, renewed Jan. 12, 1952. O. G. Apr. 8. Class 6.

Bruce, Robert W., assignee: *See*—
Aldridge, E. A.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Anti-slip preparation for bowlers' hands. 557,152, Apr. 8; Serial No. 574,014, published Jan. 15, 1952. Class 6.

Bryn Mawr Laboratories: *See*—
Malcolm, Frederick S.

Bulk Razor Blade Co.: *See*—
Mitchell, Glenn C., Sr.

Bultfabriks Aktiebolaget, Hallstahammar, Sweden. Bolts, nuts, and metal washers. 291,080, renewed Jan. 26, 1952. O. G. Apr. 8. Class 13.

Burroughs, Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Preparation for use as a sedative, analgesic, and antipyretic. 557,321, Apr. 8; Serial No. 608,916, published Nov. 27, 1951. Class 18.

Butler County Mushroom Farm, Inc., West Winfield, Pa. Fresh mushrooms. 557,271, Apr. 8; Serial No. 603,658, published Jan. 15, 1952. Class 46.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 557,209, Apr. 8; Serial No. 592,302, published Jan. 15, 1952. Class 6.

Cabot, Godfrey L., Inc., Boston, Mass. Carbon black. 557,351, Apr. 8; Serial No. 611,599, published Jan. 15, 1952. Class 6.

California Academy of Screen Process: *See*—
Radio-Television Training School, Inc.

California Fruit Exchange, Sacramento, Calif. Fresh deciduous fruits. 557,180, Apr. 8; Serial No. 585,699, published Jan. 1, 1952. Class 46.

Canadian Benaudi Company Limited, assignor to E. Hausdorf, Ottawa, Ontario, Canada. Telephonic and telegraphic apparatus and parts thereof, etc. 557,295, Apr. 8; Serial No. 605,702, published Jan. 1, 1952. Class 21.

Caris-Art Inc., assignee: *See*—
Sirac, Inc.

Celotex Corporation, The: *See*—
El Rey Products Co.

Century Products Co.: *See*—
Willoughby, George V.

Chambers Corporation, Shelbyville, Ind. Baffle-equipped heat equalizing apparatus. 557,198, Apr. 8; Serial No. 589,767, published Jan. 15, 1952. Class 34.

Chapman, Walter G., Louisville, Ky. Serving of foods and beverages in restaurants. 557,425, Apr. 8; Serial No. 608,590, published Jan. 15, 1952. Class 100.

Charbonneau Packing Corporation, Selah, Wash. Apple juice. 557,350, Apr. 8; Serial No. 611,560, published Jan. 15, 1952. Class 46.

Charlestan Manufacturing Company, The, Independence, Kans. Parlor game. 557,214, Apr. 8; Serial No. 593,785, published Dec. 25, 1951. Class 22.

Chemco Products Company: *See*—
Aldridge, E. A.

Chemical Testing Corporation: *See*—
Chemical Testing Institute of America, Inc., The.

Chemical Testing Institute of America, Inc., The, Long Island City, N. Y., now by change of name Chemical Testing Corporation. Chemical to remove excess soot from furnaces, etc. 557,188, Apr. 8; Serial No. 588,080, published Jan. 15, 1952. Class 52.

Chet's Famous Foods, Eugene, Oreg. Turkey tamales, chicken tamales, and cheese tamales, etc. 557,147, Apr. 8; Serial No. 572,550, published Jan. 15, 1952. Class 46.

Chicago Pharmacal Company, Chicago, Ill. Vaginal suppository. 401,202, Apr. 27, 1943. Republished Apr. 8. Class 18.

Chipurnoi, Perry H., Inc., New York, N. Y. Cluster raisins. 557,108, Apr. 8; Serial No. 523,514, published July 17, 1951. Clas 46.

Cia. Anma, Toddy Venezolana, Caracas, Venezuela. Powdered milk. 557,136, Apr. 8; Serial No. 561,883, published Jan. 8, 1952. Class 46.

Clack, H. Earl, Company, Havre, Mont. Kerosene. 132,647, June 29, 1920. Republished Apr. 8. Class 15.

Clack, H. Earl, Company, Havre, Mont. Gasoline. 135,415, Oct. 12, 1920. Republished Apr. 8. Class 15.

Clack, H. Earl, Company, Havre, Mont. Motor oils. 141,897, May 3, 1921. Republished Apr. 8. Class 15.

Claridge Publishing Corp., New York, N. Y. Books, magazines, periodicals, and brochures. 557,333, Apr. 8; Serial No. 610,201, published Jan. 15, 1952. Class 38.

Cleveland Provision Company, Cleveland, Ohio. Packing house products. 557,099, Apr. 8; Serial No. 508,209, published Jan. 15, 1952. Class 46.

Clinton Foods Inc., Clinton, Iowa. Non-crystallizable corn sugar syrup. 557,257, Apr. 8; Serial No. 602,436, published Jan. 8, 1952. Class 46.

Clothier, C. F., & Co.: *See*—
Clothier, Conrad F.

Clothier, Conrad F., doing business under the trade name and style of C. F. Clothier & Co., Baltimore, Md. Comb cleaning preparation. 557,346, Apr. 8; Serial No. 611,342, published Jan. 15, 1952. Class 52.

Collins, Harvey R.: *See*—
Hall, William R., Herbert C. Berning, and Harvey R. Collins.

Colorado Milling & Elevator Co., The, Denver, doing business as The Model Flour Mills Company, Greeley, Colo. Wheat flour. 557,134, Apr. 8; Serial No. 556,320, published Nov. 20, 1951. Class 46.

Colyer, J. L., Yuma, Ariz. Fresh vegetables and fresh melons. 557,148, Apr. 8; Serial No. 572,551, published Jan. 15, 1952. Class 46.

Comart, Roy, doing business as Seat Saver Company, New York, N. Y. Printed display cards. 439,352, June 22, 1948. Republished Apr. 8. Class 38.

Compania De Jarcia De Matanzas S. A., Matanzas, to Henequenera De Juraguá, S. A., Havana, Cuba. Sisal fibre. 295,153, renewed June 21, 1952. O. G. Apr. 8. Class 1.

Compania De Jarcia De Matanzas, S. A., Matanzas, to Agrícola del Yumurí, S. A., Havana, Cuba. Sisal fibre. 295,154, renewed June 21, 1952. O. G. Apr. 8. Class 1.

Consolidated Cosmetics, Chicago, Ill. Lipstick, face powder, hand lotion, etc. 557,155, Apr. 8; Serial No. 575,331, published Jan. 1, 1952. Class 51.

Cook Chemical Company, Kansas City, Mo. Insecticides. 557,330, Apr. 8; Serial No. 609,914, published Jan. 15, 1952. Class 6.

Cooke, Chetwin S., Haddonfield, N. J. Pancake and waffle batter. 557,195, Apr. 8; Serial No. 589,305, published Jan. 15, 1952. Class 46.

Corporacion Argentina de Productores de Carnes, New York, N. Y. Canned corned beef, canned corned beef hash, canned roast beef, etc. 557,281–2, Apr. 8; Serial Nos. 604,409–10, published Jan. 15, 1952. Class 46.

Corporacion Argentina de Productores de Carnes, New York, N. Y. Canned corned beef, canned corned beef hash, canned roast beef, etc. 557,326, Apr. 8; Serial No. 609,676, published Dec. 11, 1951. Class 46.

Cotton City Wash Frocks, Inc., Fall River, Mass. Ladies', misses', and teen age girls' cotton dresses, housecoats, brunch coats and pinafores. 557,377, Apr. 8; Serial No. 612,732, published Jan. 15, 1952. Class 39.

Cotton Products Company, Inc., doing business as Opelousas Oil Refinery and also as Opelousas Oil Mill, Opelousas, La. Cottonseed salad oil and shortening. 368,868, July 4, 1939. Republished Apr. 8. Class 46.

Crewett, Margaret W., Philadelphia, Pa. Cleansing face cream. 557,169, Apr. 8; Serial No. 579,583, published Jan. 8, 1952. Class 51.

Croton Chemical Corporation, New York, N. Y. Potassium nitrate (saltpetre), sodium nitrate, borax, boric acid, etc. 557,228, Apr. 8; Serial No. 596,563, published Jan. 15, 1952. Class 6.

Curran, Henry W., doing business as Marianne Stocking Shop, Huntington, N. Y. Women's and junior misses' stockings, and anklets. 557,137, Apr. 8; Serial No. 562,182, published Aug. 15, 1950. Class 39.

Cussins and Fearn Company, The, Columbus, Ohio. Coal, kerosene, crude oil, and gas-fired space heaters, radiant space heaters, etc. 557,129, Apr. 8; Serial No. 551,865, published Jan. 8, 1952. Class 34.

Cutts, Richard M., The Plains, Va. Gas porting devices. 557,114, Apr. 8; Serial No. 536,675, published Nov. 20, 1951. Class 9.

Dairyland Food Laboratories, Inc., Waukesha, Wis. Liquid lipolytic and proteolytic enzyme compositions for developing flavor and modifying the body of cheese. 557,341, Apr. 8; Serial No. 610,956, published Jan. 15, 1952. Class 46.

D'Alesandro, Nancy, Baltimore, Md. "Beautifier" vaporizer for treatment of the skin. 557,181, Apr. 8; Serial No. 586,627, published Jan. 1, 1952. Class 44.

Davidson Baking Co., Portland, Oreg. Bread. 557,335, Apr. 8; Serial No. 610,250, published Jan. 22, 1952. Class 46.

Dawnelle, Inc., New York, N. Y. Ladies' and misses' gloves. 557,383, Apr. 8; Serial No. 613,122, published Jan. 15, 1952. Class 39.

Delira Corporation, Studio City, Calif. Toy holsters. 557,299, Apr. 8; Serial No. 605,944, published Jan. 15, 1952. Class 22.

De Marco, Lewis D., doing business under the style and firm name of Bray & MacGeorge, Vineland, N. J. General real estate brokerage. 557,423, Apr. 8; Serial No. 591,224, published Jan. 1, 1952. Class 102.

De Walt Inc., Lancaster, Pa. Leaflets. 557,410, Apr. 8; Serial No. 614,689, published Jan. 8, 1952. Class 38.

Dixie-Portland Flour Co., Memphis, Tenn. Wheat flour. 557,140, Apr. 8; Serial No. 563,606, published Jan. 22, 1952. Class 46.

Douglas, Bernard M., to Roquefort Association, Inc., New York, N. Y. Roquefort cheese. 290,655, renewed Jan. 12, 1952. O. G. Apr. 8. Class 46.

Douglas Fir Plywood Association, Tacoma, Wash. House organ. 557,298, Apr. 8; Serial No. 605,848, published Jan. 8, 1952. Class 38.

Dow Jones & Company, Inc., New York, N. Y., assignor to Dow Jones & Company, Inc., Wilmington, Del. Section of a daily newspaper. 557,133, Apr. 8; Serial No. 555,390, published Jan. 15, 1952. Class 38.

Duncan, Kenneth O., Los Angeles, Calif. Hand powered expanding tools. 557,432, Apr. 8; Serial No. 575,395. Class 23.

Du Pont, E. I., de Nemours and Company: *See*—
Kinetic Chemicals, Inc.
Roessler & Hasslacher Chemical Company, Inc., The.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Synthetic methanol. 293,917, renewed May 10, 1952. O. G. Apr. 8. Class 6.

Dupuis Produce Company, Breaux Bridge, La. Raw, whole yams. 557,199, Apr. 8; Serial No. 589,960, published Jan. 8, 1952. Class 46.

Duro-Test Corporation, North Bergen, N. J. Incandescent and fluorescent lamps. 557,393, Apr. 8; Serial No. 613,953, published Jan. 8, 1952. Class 21.

Dwinell-Wright Company, Boston, Mass. Coffee. 85,956, re-renewed Apr. 2, 1952. O. G. Apr. 8. Class 46.

Eastern Banana Corp., New York, N. Y. Fresh frozen fish, and fresh frozen shrimp. 557,375, Apr. 8; Serial No. 612,599, published Jan. 15, 1952. Class 46.

Edmundson, E. E., Jr., Rayne, La. Rice. 557,373, Apr. 8; Serial No. 612,534, published Jan. 15, 1952. Class 46.

Edwards, William, Company, The, Cleveland, Ohio. Prepared mustards, prepared horseradish. 557,096, Apr. 8; Serial No. 493,177, published Jan. 15, 1952. Class 46.

El Rey Products Co., Los Angeles, Calif., to The Celotex Corporation, Chicago, Ill. Felt and asphalt roofing, composition shingles, composition siding material, etc. 290,489, renewed Jan. 5, 1952. O. G. Apr. 8. Class 12.

Emerson Radio and Phonograph Corporation, New York, N. Y. Static dust preventive. 557,344, Apr. 8; Serial No. 611,027, published Jan. 8, 1952. Class 6.

Emery Industries, Inc., Cincinnati, Ohio. Dimer acid. 557,384, Apr. 8; Serial No. 613,216, published Jan. 8, 1952. Class 6.

Epstein, Sol, doing business as Televex Company, Los Angeles, Calif. Television and radio antenna and aerials, etc. 557,300, Apr. 8; Serial No. 606,138, published Jan. 8, 1952. Class 21.

Espoma Company, The, Millville, N. J. Fertilizers. 557,316, Apr. 8; Serial No. 607,745, published Jan. 15, 1952. Class 10.

Esquire Sportswear Co., New York, N. Y. Trade publication. 557,405, Apr. 8; Serial No. 614,403, published Jan. 1, 1952. Class 38.

Establecimiento Modelo Terrabusi: *See*—
Terrabusi, Ambrosius U.

Etablissements Godefroy, Société Anonyme, Calvados, France. Cheese. 557,322, Apr. 8; Serial No. 609,082, published Jan. 22, 1952. Class 46.

Euclid Candy Company of California, Inc., San Francisco, Calif. Candy. 557,115, Apr. 8; Serial No. 537,301, published Nov. 6, 1951. Class 46.

Euclid Candy Company of California, Inc., San Francisco, Calif. Candy. 557,116, Apr. 8; Serial No. 537,303, published Nov. 6, 1951. Class 46.

Eves, M. Z., and Company, New York, N. Y. Stocking protecting spats. 557,162, Apr. 8; Serial No. 577,529, published June 6, 1950. Class 39.

Exhibit Supply Company, Chicago, Ill. Coin-controlled amusement game apparatus. 557,252, Apr. 8; Serial No. 601,892, published Dec. 25, 1951. Class 22.

FKG Fritz Kesselring Gerätebau A. G., Bachtobel-Weinfelden, Thurgau, Switzerland. Alkali-vaporous discharge tubes. 557,309, Apr. 8; Serial No. 606,653, published Jan. 8, 1952. Class 21.

Fair, The, Chicago, Ill. Writing paper and envelopes. 372,446, Oct. 31, 1939. Republished Apr. 8. Class 37.

Fessler, Julius H., doing business as Berkeley Yeast Laboratory, Berkeley, Calif. Chemical composition. 557,357, Apr. 8; Serial No. 611,950, published Jan. 15, 1952. Class 6.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural or synthetic aromatic chemicals and essential oils. 557,253, Apr. 8; Serial No. 601,980, published Jan. 15, 1952. Class 52.

Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.

First National Stores, Inc., Somerville, Mass. Dried vegetables, dried apricots, mince meat, etc. 557,127, Apr. 8; Serial No. 549,431, published Jan. 1, 1952. Class 46.

Fitch, F. W., Company, The, Des Moines, Iowa, assignor to The Grove Laboratories, Inc., St. Louis, Mo. Hair dressing. 557,160, Apr. 8; Serial No. 577,179, published Jan. 8, 1952. Class 51.

Flagstaff Foods: *See*—
Greenspan Brothers Company.

Fleer, Frank H., Corporation, Philadelphia, Pa. Chewing gum. 290,906, renewed Jan. 19, 1952. O. G. Apr. 8. Class 46.

Florence Stove Company, Gardner, Mass. Electric space heaters. 557,402, Apr. 8; Serial No. 614,247, published Dec. 18, 1951. Class 21.

Flour mills of America, Inc., doing business as Valier & Spies Milling Company, Kansas City and St. Louis, Mo. Wheat flour. 557,130, Apr. 8; Serial No. 552,554, published Dec. 11, 1951. Class 46.

Forster Manufacturing Company, Inc., The, Farmington, Maine. Toothpicks. 557,102, Apr. 8; Serial No. 516,476, published Jan. 1, 1952. Class 44.

Foster, Alan, doing business as Alan Foster Associates, New York, N. Y. Photographic prints. 557,409, Apr. 8; Serial No. 614,620, published Jan. 8, 1952. Class 38.

Foster, Alan, Associates: *See*—
Foster, Alan.

Fromme, H. S., & Co., Inc., New York, N. Y. Tea. 557,231, Apr. 8; Serial No. 597,332, published Jan. 15, 1952. Class 46.

Fruehauf Trailer Company, Detroit, Mich. General cargo van trailers, live stock trailers, refrigerated trailers, etc. 557,314, Ap. 8; Serial No. 607,425, published Jan. 1, 1952. Class 19.

G. H. S. Corporation, New York, N. Y. Hair nets. 557,220, Apr. 8; Serial No. 595,207, published Jan. 15, 1952. Class 39.

Gallenkamp Stores Co., Los Angeles, Calif. Shoes. 289,642, Dec. 1, 1931. Republished Apr. 8. Class 39.

Gallenkamp Stores Co., Los Angeles, Calif. Footwear. 290,495, Jan. 5, 1932. Republished Apr. 8. Class 39.

Gar Wood Industries, Inc., Wayne, Mich. Mechanically operated winches. 557,431, Apr. 8; Serial No. 571,208. Class 23.

Garden Grove Citrus Association, Garden Grove, Calif. Fresh citrus fruits. 557,135, Apr. 8; Serial No. 559,596, published Nov. 20, 1951. Class 46.

General American Transportation Corporation, Chicago, Ill. Leasing freight cars. 557,427, Apr. 8; Serial No. 611,268, published Jan. 15, 1952. Class 105.

General Ceramics & Steatite Corp., Keasbey, N. J. Impregnated graphite plate heaters and tube and shell heat exchangers. 557,167, Apr. 8; Serial No. 578,787, published Jan. 15, 1952. Class 34.

General Electric Company: *See*—
Premier Vacuum Cleaner Co., The.

General Time Corporation: *See*—
Western Clock Company.

Gerlach-Barklow Co., The, Joliet, Ill. Printed wall calendars, printed greeting cards, printed greeting folders, etc. 557,332, Apr. 8; Serial No. 610,173, published Jan. 15, 1952. Class 38.

Gibson, Guy T., Inc., to Parfums Ciro, Inc., New York, N. Y. Perfume. 292,890, renewed Mar. 29, 1952. O. G. Apr. 8. Class 51.

Gillette Safety Razor Company: *See*—
Purple Blade Corporation.

Gla-Zol Corporation, Dallas, Tex. Chemical preparation. 557,175. Apr. 8; Serial No. 582,286, published Jan. 15, 1952. Class 6.

Glidden Company, The: *See*—
Kentucky Refining Co.

Globe-Union Inc., Milwaukee, Wis. Electronic audio-amplifier units. 557,398, Apr. 8; Serial No. 614,138, published Jan. 22, 1952. Class 21.

Globe-Union Inc., Milwaukee ,Wis. Electronic audio-detector units. 557,399, Apr. 8; Serial No. 614,139, published Jan. 22, 1952. Class 21.

Globe-Union Inc., Milwaukee, Wis. Balanced diode load filter units. 557,400, Apr. 8; Serial No. 614,140, published Jan. 22, 1952. Class 21.

Goodyear Tire & Rubber Company, The, Akron, Ohio. Elastic vehicle-tires. 86,137, re-renewed Apr. 16, 1952. O. G. Apr. 8. Class 35.

Gotham Hosiery Company, Inc., New York, N. Y. Women's hosiery. 557,304. Apr. 8; Serial No. 606,292, published Jan. 8, 1952. Class 39.

Greeley Spud Chip Company, Greeley, assignor to Spud Chips Inc., Weld County Colo. Potato chips. 557,107, Apr. 8; Serial No. 521,517, published Oct. 9, 1951. Class 46.

Greenspan Brothers Company, to Flagstaff Foods, Perth Amboy, N. J. Canned vegetables, canned fruit, canned fish, etc. 294,046, renewed May 17, 1952. O. G. Apr. 8. Class 46.

Greiner, Emil, Company, The, New York, N. Y. Periodical. 557,342. Apr. 8; Serial No. 610,967, published Jan. 1, 1952. Class 38.

Griffith Laboratories, Inc., The, Chicago, Ill. Edible oil. 557,105. Apr. 8; Serial No. 520,698, published Nov. 20, 1951. Class 46.

Griggs, Cooper & Company, St. Paul, Minn. Fruit preserves, jellies, marmalade, etc. 557,325. Apr. 8; Serial No. 609,647, published Jan. 15, 1952. Class 46.

Gro-Crop, Inc., Summerdale, Ala. Liquid fertilizer. 557,439, Apr. 8; Serial No. 604,260. Class 10.

Gro-Ur-Own Chemical Gardens, Inc., Seattle, Wash. Fertilizers. 557,245, Apr. 8; Serial No. 600,130, published Jan. 15, 1952. Class 10.

Grove, Howard S., doing business as Howard S. Grove Co., to Natone Co., Inc., Los Angeles, Calif. Cosmetic. 291,579, renewed Feb. 23, 1952. O. G. Apr. 8. Class 51.

Grove, Howard S., Co.: *See*—
Grove, Howard S.

Grove Laboratories, Inc., The: *See*—
Fitch, F. W., Company, The.

Grove Laboratories, Inc., The, St. Louis, Mo. Shampoo. 557,270, Apr. 8; Serial No. 603,583, published Dec. 25, 1951. Class 52.

Gulf States Paper Corporation, Tuscaloosa, Ala. Paper bags. 557,276, Apr. 8; Serial No. 604,094, published May 8, 1951. Class 2.

Guss, David, & Company, Philadelphia, Pa. Holster and gun set as a toy item. 557,285, Apr. 8; Serial No. 604,633, published Jan. 1, 1952. Class 22.

Haines Oyster Company, Seattle, Wash. Fresh, frozen, canned and processed oysters and oyster stew, clams, fish, etc. 557,286, Apr. 8; Serial No. 604,634, published Dec. 11, 1951. Class 46.

Hall, William R., H. C. Berning, and H. R. Collins, Angola, Ind. Game. 557,217, Apr. 8; Serial No. 594,539, published Jan. 15, 1952. Class 22.

Hall, John M., New York, N. Y. Ear cleaning wire pick. 57,222, Apr. 8; Serial No. 595,837, published Dec. 25, 1951. Class 44.

Halladay, Nellie A., Minneapolis, Minn. Product demonstration, selling, and advertising services. 557,421, Apr. 8; Serial No. 587,547, published Jan. 1, 1952. Class 101.

Handicast Company, The, Cleveland, Ohio. Hand-held fishing reel. 557,150, Apr. 8; Serial No. 573,770, published Jan. 22, 1952. Class 22.

Hanover Cordage Company Incorporated, Hanover, Pa. Packing materials. 557,327, Apr. 8; Serial No. 609,797, published Jan. 8, 1952. Class 35.

Hapman Conveyors, Inc., Detroit, Mich. Flight conveyors. 557,210, Apr. 8; Serial No. 592,425, published Nov. 6, 1951. Class 23.

Harris, William M., New York, N. Y. Pictorial advertising signs. 557,264, Apr. 8; Serial No. 603,367, published Jan. 1, 1952. Class 38.

Hausdorf, Erich, assignee: *See*—
Canadian Benaudi Company Limited.

Hearst Corporation, The, New York, N. Y. Series of cartoons or comic strips. 557,353–4, Apr. 8; Serial Nos. 611,697–8, published Jan. 1, 1952. Class 38.

Hearst Corporation, The, New York, N. Y. Newspaper section or department. 557,416, Apr. 8; Serial No. 615,835, published Jan. 22, 1952. Class 38.

Henequenera De Juraguá, S. A.: *See*—
Compania De Jarcia De Matanzas S. A.

Hercules Cycle and Motor Company Limited, Aston, Birmingham, England. Bicycle and component parts thereof. 557,310. Apr. 8; Serial No. 606,660, published Jan. 1, 1952. Class 19.

Hesmer, Inc., Evansville, Ind. Potato chips, cheese flavored salted popcorn, fresh fried popcorn, etc. 557,203, Apr. 8; Serial No. 591,572, published Jan. 15, 1952. Class 46.

Heyden Chemical Corporation, New York, N. Y. Formaldehyde and solutions containing formaldehyde. 557,336, Apr. 8; Serial No. 610,267, published Jan. 15, 1952. Class 6.

Hickok Manufacturing Co. Inc., Rochester, N. Y. Boys' and men's raincoats, jackets, gloves, etc. 557,328, Apr. 8; Serial No. 609,798, published Jan. 8, 1952. Class 39.

Hick'ry Pit, The: *See*—
Hirschenfeld, Henry J.

Hick'ry Pit Enterprises, Inc.: *See*—
Hirschenfeld, Henry J.

Hi-Lo TV Antenna Corp., Chicago, Ill. Indoor antennas. 557,307, Apr. 8; Serial No. 606,425, published Jan. 22, 1952. Class 21.

Hirschenfeld, Henry J., doing business as The Hick'ry Pit, by Hick'ry Pit Enterprises, Inc., Oakland, Calif. Prepared and barbecued spareribs. 341,567, Dec. 15, 1936. Republished Apr. 8. Class 46.

Hi-Yield Fertilizer Company, Bonham, Tex. Insecticides. 557,355, Apr. 8; Serial No. 611,784, published Jan. 15, 1952. Class 6.

Hodgman Rubber Company, Framingham, Mass. Pneumatic mattresses. 293,657, renewed May 3, 1952. O. G. Apr. 8. Class 32.

Hollingshead, R. M., Corporation, Camden, N. J. Hydraulic fluid. 557,417, Apr. 8; Serial No. 615,896, published Jan. 15, 1952. Class 6.

Holsum Products: *See*—
Jewett & Sherman Co.

Hygrade Food Products Corporation, New York, N. Y. Sausage, ham bacon, lard and cheese. 557,126, Apr. 8; Serial No. 546,302, published Jan. 8, 1952. Class 46.

Hygrade Food Products Corporation, Detroit, Mich. Bacon, canned beef, stew, souse, etc. 557,359, Apr. 8; Serial No. 612,056, published Dec. 11, 1951. Class 46.

Hylo Company, Inc., Houston, Tex. Washing powder. 557,219, Apr. 8; Serial No. 594,716, published Dec. 25, 1951. Class 52.

Hyper-Humus Company, Bryn Mawr, Pa. Plant soil. 557,246, Apr. 8; Serial No. 600,169, published Jan. 8, 1952. Class 10.

Hysan Products Company, Chicago, Ill. Aerosol bombs. 557,343, Apr. 8; Serial No. 610,975, published Jan. 15, 1952. Class 6.

I. C. Publishing Co., Inc., New York, N. Y. Magazine. 557,385, Apr. 8; Serial No. 613,331, published Jan. 1, 1952. Class 38.

Ideal Novelty & Toy Co., Brooklyn, to Ideal Toy Corporation, Hollis, N. Y. Dolls. 295,032, renewed June 14, 1952. O. G. Apr. 8. Class 22.

Ideal Toy Corporation: *See*—
Ideal Novelty & Toy Co.

Imperial Chemical Industries Limited, London and Millbank, London, England. Electric lampshades. 557,345, Apr. 8; Serial No. 611,180, published Dec. 18, 1951. Class 21.

Imperial Products Company, Philadelphia, Pa. Powdered household laundry bleach. 557,406, Apr. 8; Serial No. 614,441, published Jan. 22, 1952. Class 6.

Independent Salmon Canneries, Inc., Seattle, Wash. Canned salmon. 557,301, Apr. 8; Serial No. 606,224, published Jan. 8, 1952. Class 46.

Ingersoll-Rand Company, New York, N. Y., to Ingersoll-Rand Company, New York, N. Y., and Phillipsburg, N. J. Motor pumps. 294,183, renewed May 24, 1952. O. G. Apr. 8. Class 23.

International Hormones, Inc., Brooklyn, N. Y. Pharmaceutical preparation. 557,183, Apr. 8; Serial No. 587,264, published Nov. 20, 1951. Class 18.

International Legal Fraternity of Phi Delta Phi, The, Boulder, Colo. Magazine. 557,290, Apr. 8; Serial No. 605,307, published Jan. 15, 1952. Class 38.

Invalift, Inc., Seattle, Wash. Mechanical equipment in the nature of a lift for raising, lowering and turning incapacitated people. 557,218, Apr. 8; Serial No. 594,645, published Dec. 25, 1951. Class 44.

Jackson Fertilizer Co., Jackson, Miss. Agricultural fertilizer. 557,318, Apr. 8; Serial No. 608,705, published Jan. 15, 1952. Class 10.

Jaysen Strips Co.: *See*—
Rosten, Jay.

Jewett & Sherman Co., doing business under the name Holsum Products, Milwaukee, Wis. Olives, sandwich spread, salad dressing, etc. 557,125, Apr. 8; Serial No. 545,993, published Nov. 13, 1951. Class 46.

Kalene Corporation, Minneapolis, Minn. Water-less hand-cleaning paste. 557,255, Apr. 8; Serial No. 602,122, published Jan. 1, 1952. Class 52.

Kallis and Kallis, Chicago, Ill. Trucking carrier directories and rosters. 557,418, Apr. 8; Serial No. 615,935, published Jan. 22, 1952. Class 38.

Kaylon Incorporated, New York, N. Y. Men's, women's, and children's pajamas, pajama coats, beach coats, etc. 557,121, Apr. 8; Serial No. 543,196, published July 17, 1951. Class 39.

Keller, Belle S., doing business as Keller Publishing Company, New York, N. Y. Magazine. 557,364, Apr. 8; Serial No. 612,332, published Jan. 15, 1952. Class 38.

Keller Publishing Company: *See*—
Keller, Belle S.

Kennelly-Lumitone Co. Inc., New York, N. Y. Colored picture post cards. 557,348, Apr. 8; Serial No. 611,524, published Jan. 22, 1952. Class 38.

Kentucky Refining Co., Louisville, Ky., to The Glidden Company, Cleveland, Ohio. Cotton-seed oil. 84,972, renewed Jan. 16, 1952. O. G. Apr. 8. Class 46.

Kerr Gifford & Co., Inc., Portland, Oreg. Wheat flour and poultry and stock feeds. 557,163, Apr. 8; Serial No. 578,028, published Nov. 20, 1951. Class 46.

Key City Wholesale Supply Company: *See*—
Shari Candies, Inc.

Kinetic Chemicals, Inc., to E. I. du Pont de Nemours and Company, Wilmington, Del. Fluorinated hydrocarbons. 293,850, renewed May 10, 1952. O. G. Apr. 8. Class 6.

King, Charles E., doing business as Charles E. King & Co., Chicago, Ill. Corrugated cartons, paper cups, plates, etc. 557,164, Apr. 8; Serial No. 578,599, published May 8, 1951. Class 2.

King, Charles E., & Co.: *See*—
King, Charles E.

Knapp-Monarch Company, St. Louis, Mo., assignee of Knapp-Monarch Company. Pyrophoric and catalytic lighters. 557,095, Apr. 8; Serial No. 476,803, published Jan. 15, 1952. Class 8.

Knothe Brothers Co. Inc., New York, N. Y. Men's pajamas, men's underwear, men's dress and negligee shirts, etc. 294,727, renewed June 7, 1952. O. G. Apr. 8. Class 39.

Koochook Co., Inc., St. Louis, Mo. Automotive equipment. 557,223, Apr. 8; Serial No. 595,841, published Jan. 1, 1952. Class 23.

Koppers Company, Inc., Pittsburgh, Pa. Mono- and poly-hydroxyphenols, alkyl-phenols, aromatic (coal tar) hydrocarbons, etc. 557,158, Apr. 8; Serial No. 576,645, published Jan. 8, 1952. Class 6.

Kresge Department Store Corporation, to Kresge-Newark, Inc., Newark, N. J. Beads, bias bindings, etc. 294,035, renewed May 17, 1952. O. G. Apr. 8. Class 40.

Kresge-Newark, Inc.: *See*—
Kresge Department Store Corporation.

Kress & Owen Company, New York, N. Y. Alterative solution. 38,081, re-renewed Apr. 8. O. G. Apr. 8. Class 18.

L & L Beauty Products, Pioche, Nev. Cosmetic preparations. 557,382, Apr. 8; Serial No. 613,076, published Jan. 1, 1952. Class 51.

La Emilia, Industrias Textiles, S. R. L., Buenos Aires, Argentina. Lace and embroidery medallions, narrow lace trimmings, etc. 444,677, Apr. 8; Serial No. 508,293, published Nov. 27, 1951. Class 40.

Larus & Brother Company, Incorporated, Richmond, Va. Smoking tobacco and cigarettes. 291,854, Feb. 23, 1932. Republished Apr. 8. Class 17.

Lawrence, A. C., Leather Company, Peabody, Mass. Finished leather. 85,911, Mar. 26, 1912. Republished Apr. 8, 1952. Class 1.

Leader Novelty Candy Co., Inc., Brooklyn, N. Y. Chocolates, and hard candy. 557,172, Apr. 8; Serial No. 580,995, published Jan. 8, 1952. Class 46.

Leary, Dennis W., Walnut Grove, Calif. Fresh pears. 557,120, Apr. 8; Serial No. 542,852, published Dec. 18, 1951. Class 46.

Lee Pharmacal Co., Beverly Hills, Calif., assignor to Lever Brothers Company, New York, N. Y. Home cold wave refill kit. 557,291, Apr. 8; Serial No. 605,312, published Jan. 1, 1952. Class 51.

Lee Products Co., Inc., The, Cleveland, Ohio. Accessories for electric vacuum cleaners. 557,292, Apr. 8; Serial No. 605,430, published Jan. 1, 1952. Class 21.

Lehn & Fink Products Corporation: *See*—
Lysol, Incorporated.

Leland Detroit Manufacturing Company, Detroit, Mich. Tractors. 557,435, Apr. 8; Serial No. 602,266. Class 23.

Lepetit S. A., Milan, Italy. Antibiotic product. 557,233–4, Apr. 8; Serial Nos. 597,887–8, published Nov. 27, 1951. Class 18.

Lewis & Tylor Limited, Cardiff, Wales. Machine belting. 557,159, Apr. 8; Serial No. 576,975, published Jan. 15, 1952. Class 35.

Lever Brothers Company, assignee: *See*—
Lee Pharmacal Co.

Little Crow Milling Co., Inc., Warsaw, Ind. Cocoa coated breakfast cereal. 557,139, Apr. 8; Serial No. 563,350, published Jan. 22, 1952. Class 46.

Loevenhart & Company, Inc., Louisville, Ky. Men's suits and topcoats. 557,179, Apr. 8; Serial No. 585,336, published Aug. 29, 1950. Class 39.

Lohmann Foods Corp., Gorham, N. Y. Bottled and canned red cabbage and sweet pickled beets. 557,323, Apr. 8; Serial No. 609,487, published Jan. 15, 1952. Class 46.

Luchs, Joseph, doing business as Joseph Luchs and Staff, Philadelphia, Pa. Educational literature. 557,378, Apr. 8; Serial No. 612,810, published Jan. 15, 1952. Class 38.

Luchs, Joseph, and Staff: *See*—
Luchs, Joseph.

Lysol, Incorporated, to Lehn & Fink Products Corporation, Bloomfield, N. J. Saponified cresol solution. 294,693, renewed June 7, 1952. O. G. Apr. 8. Class 52.

M. K. M. Hosiery Mills, Inc.: *See*—
Massachusetts Knitting Mills.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Liquid milk food product. 557,337, Apr. 8; Serial No. 610,326, published Dec. 25, 1951. Class 46.

Macklanburg-Duncan Company, Oklahoma City, Okla. Metal and felt weather stripping, metal weather stripping, and felt weather stripping. 281,626, renewed Mar. 24, 1951. O. G. Apr. 8. Class 12.

Malcolm, Frederick S., doing business as Bryn Mawr Laboratories, Bryn Mawr, Pa. Anti-allergy preparation. 557,324, Apr. 8; Serial No. 609,598, published Nov. 27, 1951. Class 18.

Mallinckrodt Chemical Works, St. Louis, Mo. Aluminum soaps. 557,411, Apr. 8; Serial No. 615,017, published Jan. 15, 1952. Class 6.

Mallory, P. R., & Co., Inc., Indianapolis, Ind. Dry cell electrical batteries. 557,242, Apr. 8; Serial No. 599,889, published Jan. 1, 1952. Class 21.

Manhattan Soap Company, Inc., New York, N. Y. Toilet soap. 557,293, Apr. 8; Serial No. 605,598, published Dec. 25, 1951. Class 52.

Maple Island Farm, Inc., Stillwater, Minn., now by change of name Maple Island, Inc. Butter, milk powder, cheddar cheese, etc. 557,161, Apr. 8; Serial No. 577,396, published Dec. 11, 1951. Class 46.

Maple Island, Inc.: *See*—
Maple Island Farm, Inc.

Marbon Corporation, Gary, Ind. Synthetic resins, and blends of synthetic resins with natural and synthetic elastomers and resins. 557,329, Apr. 8; Serial No. 609,806, published Jan. 15, 1952. Class 6.

Marianne Stocking Shop: *See*—
Curran, Henry W.

Maritime Milling Co. Inc., Buffalo, N. Y. Poultry feed, scratch feed, horse feed, etc. 557,111, Apr. 8; Serial No. 529,280, published Jan. 8, 1952. Class 46.

Marshall-Wells Company, Duluth, Minn. Electric storage batteries and electric dry cells. 557,419, Apr. 8; Serial No. 616,113, published Jan. 22, 1952. Class 21.

Martin Fabrics Corporation: *See*—
Martin, J. B., Company.

Martin, J. B., Company, Norwich, Conn., to Martin Fabrics Corporation, New York, N. Y. Pile fabrics. 282,497, renewed Apr. 21, 1951. O. G. Apr. 8. Class 42.

Martin, J. B., Company, Norwich, Conn., to Martin Fabrics Corporation, New York, N. Y. Pile fabrics. 284,146, renewed June 16, 1951. O. G. Apr. 8. Class 42.

Maryland Baking Company, Inc., Baltimore, Md. Ice cream cones. 557,165, Apr. 8; Serial No. 578,608, published Jan. 15, 1952. Class 46.

Maryland Biscuit Company, The, Baltimore, Md. Graham wafers. 557,109, Apr. 8; Serial No. 525,900, published Jan. 15, 1952. Class 46.

Marz Laboratories Limited, Windsor, Ontario, Canada. Candy. 557,142, Apr. 8; Serial No. 563,945, published Dec. 4, 1951. Class 46.

Massachusetts Knitting Mills, Jamaica Plain, to M. K. M. Hosiery Mills, Inc., Boston, Mass. Hosiery. 294,547, renewed May 31, 1952. O. G. Apr. 8. Class 39.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. 557,365–6, Apr. 8; Serial Nos. 612,337–8, published Nov. 27, 1951. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical ointment preparation. 557,367, Apr. 8; Serial No. 612,340, published Nov. 27, 1951. Class 18.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. 557,368, Apr. 8; Serial No. 612,341, published Nov. 27, 1951. Class 18.

Master Glass Company: *See*—
Master Marble Company.

Master Marble Company, to Master Glass Company, Clarksburg, W. Va. Marbles. 290,066, renewed Dec. 22, 1951. O. G. Apr. 8. Class 22.

Mathieson Chemical Corporation, assignee: *See*—
Southern Acid & Sulphur Company, Incorporated.

Mayflower Fruit Association, Exeter, Calif. Fresh grapes. 196,131, Mar. 10, 1925. Republished Apr. 8. Class 46.

Mayflower Fruit Association, Exeter, Calif. Fresh deciduous fruits. 232,032, Aug. 30, 1927. Republished Apr. 8. Class 46.

Mayflower Fruit Association, Exeter, Calif. Fresh deciduous fruits. 233,430, Sept. 27, 1927. Republished Apr. 8. Class 46.

McGinnis, Ada, doing business as Triple Value Products Co., St. Louis, Mo. Vanishing cream, skin lotion, and hair gloss. 290,750, renewed Jan. 12, 1952. O. G. Apr. 8. Class 51.

McGraw-Hill Book Company, Inc., New York, N. Y. Publication. 557,288, Apr. 8; Serial No. 604,731, published Jan. 22, 1952. Class 38.

McKee, Milton G., Youngstown, Ohio. Merry-go-round. 557,236, Apr. 8; Serial No. 598,919, published Jan. 15, 1952. Class 22.

McMillan, John, Elko, Nev. Hand supported electric device. 557,266, Apr. 8; Serial No. 603,489, published Jan. 1, 1952. Class 21.

Merck & Co., Inc., Rahway, N. J. Sales periodical. 557,363, Apr. 8; Serial No. 612,212, published Jan. 22, 1952. Class 38.

Mercoid Corporation, The, Chicago, Ill. Controlling devices, employing electric circuit controlling switches. 557,178, Apr. 8; Serial No. 585,243, published Jan. 22, 1952. Class 21.

Mercury Advertising Agency, Inc., Los Angeles, Calif. Prepared advertising. 557,200, Apr. 8; Serial No. 590,610, published Jan. 8, 1952. Class 38.

Mexiburger Company, Grand Rapids, Mich. Mixed spices. 557,104, Apr. 8; Serial No. 519,480, published Nov. 13, 1951. Class 46.

Meyer, H. B., & Son, Dallas, Tex. Preparation used for cleaning and polishing bathtubs, etc. 557,212, Apr. 8; Serial No. 593,493, published Jan. 1, 1952. Class 52.

Mica Insulator Company, Schenectady, N. Y. Electrical insulating materials and supplies and electrical insulators. 557,267–8, Apr. 8; Serial Nos. 603,535–6, published Dec. 25, 1951. Class 21.

Michaels & Co., Inc., Brooklyn, N. Y. Combination television-radio-phonograph sets and parts thereof. 557,395, Apr. 8; Serial No. 614,003, published Jan. 1, 1952. Class 21.

Michel, Ernest J., New York, N. Y. Men's shirts and women's blouses. 557,247, Apr. 8; Serial No. 600,301, published Jan. 15, 1952. Class 39.

Midland Laboratories, Dubuque, Iowa. Self-polishing waxes. 557,103, Apr. 8; Serial No. 516,626, published Jan. 15, 1952. Class 4.

Mills, James, Orchards Company, Hamilton City, Calif. Fresh fruits, dried deciduous fruits, frozen cooked deciduous fruits, etc. 557,243, Apr. 8; Serial No. 600,065, published Jan. 15, 1952. Class 46.

Minkota Milling Company, Duluth, Minn., by Standard Milling Company, Chicago, Ill. Wheat flour. 21,940, Nov. 8, 1892. Republished Apr. 8. Class 46.

Minneapolis Knitting Works, Minneapolis, Minn. Infants' and children's underwear and sleeping garments, infants' shirts and bands, etc. 290,735, renewed Jan. 12, 1952. O. G. Apr. 8. Class 39.

Mitchell, Glenn C., Sr., doing business under the names of Bulk Razor Blade Co., The Barber Blade Co., and Barber Razor Blade Co., Aurora, Ill. Razor blades. 557,369, Apr. 8; Serial No. 612,464, published Jan. 1, 1952. Class 23.

Model Flour Mills Company, The: *See*—
Colorado Milling & Elevator Co., The.

Modern Materials Manufacturing Co., St. Louis, Mo. Dental flasking plaster. 557,153, Apr. 8; Serial No. 574,370, published Jan. 1, 1952. Class 44.

Moffitt, John C., Los Angeles, Calif. Newspaper column. 557,407, Apr. 8; Serial No. 614,452, published Jan. 1, 1952. Class 38.

Monarch Shoe Co., Inc., to Monarch-Youngsters Shoes Inc., Chicago, Ill. Baby shoes. 287,541, renewed Sept. 29, 1951. O. G. Apr. 8. Class 39.

Monarch-Youngsters Shoes, Inc.: *See*—
Monarch Shoe Co., Inc.

Mondial Company, Inc., New York, N. Y. Canned fish. 557,215, Apr. 8; Serial No. 594,136, published Jan. 15, 1952. Class 46.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins. 557,192, Apr. 8; Serial No. 589,032, published Jan. 8, 1952. Class 6.

Motor Cargo, Inc., Memphis, Tenn. Periodical publication. 557,414, Apr. 8; Serial No. 615,716, published Jan. 22, 1952. Class 38.

Motor Wheel Corporation, Lansing, Mich. Automatic draft regulator. 557,132, Apr. 8; Serial No. 555,290, published Jan. 15, 1952. Class 34.

Mueller, C. F., Co.: *See*—
Mueller, C. F., Company.

Mueller, C. F., Company, Jersey City, N. J., by merger with C. F. Mueller Co. Alimentary pastes. 557,101, Apr. 8; Serial No. 515,125, published Jan. 8, 1952. Class 46.

Muench Laboratories, The, St. Louis, Mo. Hand cleaner. 557,190, Apr. 8; Serial No. 588,836, published Dec. 25, 1951. Class 52.

Mull, Chas. L., & Sons, Muscatine, Iowa. Canned peas, corn, tomatoes, and green beans. 557,438, Apr. 8; Serial No. 603,891. Class 46.

Munising Paper Company, The, Chicago, Ill. Chemically treated paper sheets used for cleaning and polishing. 557,262, Apr. 8; Serial No. 603,246, published Jan. 15, 1952. Class 4.

Murphy, Brill & Sahner, Inc., New York, N. Y. Hosiery. 557,315, Apr. 8; Serial No. 607,443, published Jan. 15, 1952. Class 39.

My Word Wheel Company: *See*—
Bealer, William F.

N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands. Woolen and part-woolen yarns. 557,272, Apr. 8; Serial No. 603,975, published Jan. 15, 1952. Class 43.

N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands. Woolen yarns. 557,273, Apr. 8; Serial No. 603,977, published Jan. 15, 1952. Class 43.

N. W. Byers & Jobbers, Incorporated, St. Paul, Minn. Men's and boys' outer clothing. 294,404, renewed May 24, 1952. O. G. Apr. 8. Class 39.

National Autocraft Manufacturing Co., Orlando, Fla. Ornamental trim, replacement ornamental crank knobs, windshield wiper control knobs, etc. 557,259, Apr. 8; Serial No. 602,706, published Jan. 1, 1952. Class 19.

National Dairy Products Corporation, New York, N. Y. Whole milk, skim milk, buttermilk, etc. 557,254, Apr. 8; Serial No. 601,995, published Dec. 11, 1951. Class 46.

National Fire Proofing Company, to National Fireproofing Corporation, Pittsburgh, Pa. Structural blocks, bricks, and tiles. 86,436, re-renewed May 7, 1952. O. G. Apr. 8. Class 12.

National Fireproofing Corporation: *See*—
National Fire Proofing Company.

National Guard Association of the United States, assignee: *See*—
National Guardsman Publishing Company.

National Guardsman Publishing Company, assignor to National Guard Association of the United States, Washington, D. C. Monthly magazine. 557,113, Apr. 8; Serial No. 533,351, published Jan. 22, 1952. Class 38.

National Publishing Company, Philadelphia, Pa. Bibles. 557,256, Apr. 8; Serial No. 602,210, published Jan. 1, 1952. Class 38.

National Supply Company, The: *See*—
Atlas Imperial Diesel Engine Co.

Natone Co., Inc.: *See*—
Grove, Howard S.

Navlen, Charles A., New York, N. Y. Household air conditioning units. 557,294, Apr. 8; Serial No. 605,672, published Jan. 8, 1952. Class 34.

Nelson Doubleday, Inc., Garden City, N. Y. Books. 557,149, Apr. 8; Serial No. 572,557, published Jan. 1, 1952. Class 38.

Neo-Photo: *See*—
Robinson, Harold B.

New Castle Leather Co., New York, N. Y., to Allied Kid Company, Boston, Mass. Uncut kid-leather. 86,439, re-renewed May 7, 1952. O. G. Apr. 8. Class 1.

New England Carnation Growers Association, Inc., South Sudbury, Mass. Carnations. 557,428, Apr. 8; Serial No. 610,377, published Dec. 25, 1951. Class 1.

New Era Shirt Company, St. Louis, Mo. Men's shirts. 553,339, Jan. 15, 1952. Corrected. O. G. Apr. 8. Class 39.

Niehoff, C. E., & Co., Chicago, Ill. Automotive brake cylinder kits. 557,173, Apr. 8; Serial No. 581,971, published Jan. 1, 1952. Class 19.

Nocon Products Corporation, New York, N. Y. Washing compound. 557,248, Apr. 8; Serial No. 600,306, published Dec. 25, 1951. Class 52.

Noonan, T., Sons Company, Boston, Mass. Maple sugar candy. 557,143, Apr. 8; Serial No. 564,050, published Jan. 22, 1952. Class 46.

Norcross, Inc., New York, N. Y. Greeting cards and printed greeting folders. 557,263, Apr. 8; Serial No. 603,247, published Jan. 1, 1952. Class 38.

Norris Inc., Atlanta, Ga. Candy. 557,201, Apr. 8; Serial No. 590,826, published Nov. 13, 1951. Class 46.

North American Aviation, Inc., Los Angeles, Calif. Aircraft. 557,396, Apr. 8; Serial No. 614,095, published Jan. 1, 1952. Class 19.

Northwest Publications, Inc., St. Paul, Minn. Newspaper column. 557,308, Apr. 8; Serial No. 606,628, published Jan. 22, 1952. Class 38.

Norvell-Shapleigh Hardware Company, to Shapleigh Hardware Company, St. Louis, Mo. Axes, hatchets, butcher knives, etc. 86,499, re-renewed May 7, 1952. O. G. Apr. 8. Class 23.

Nuodex Products Co., Inc., Elizabeth, N. J. Pest control compositions, compositions for agricultural pest control, etc. 557,177, Apr. 8; Serial No. 584,635, published Nov. 27, 1951. Class 6.

Oesterreichische Knopf und Metallwarenfabrik J. Meister & Co., Vienna, Austria. Igniters emitting sparks which ignite gas. 557,274, Apr. 8; Serial No. 604,021, published Jan. 8, 1952. Class 34.

Ohio Crankshaft Company, The, Cleveland, Ohio. Electrical induction metal heating and heat-treating apparatus and machines and parts thereof. 557,225, Apr. 8; Serial No. 596,434, published Jan. 1, 1952. Class 21.

Ohmite Manufacturing Company, Chicago, Ill. Electrical circuit control elements. 557,302, Apr. 8; Serial No. 606,234, published Jan. 22, 1952. Class 21.

Opelousas Oil Mill: *See*—
Cotton Products Company, Inc.

Opelousas Oil Refinery: *See*—
Cotton Products Company, Inc.

Osceola Foods, Inc., Osceola, Ark. Oleomargarine. 557,187, Apr. 8; Serial No. 587,742, published Nov. 13, 1951. Class 46.

P. & S. Plum, Ltd., Copenhagen, Denmark. Cheese, condensed full-cream, evaporated and unsweetened milk, etc. 320,642, Jan. 1, 1935. Republished Apr. 8. Class 46.

Pacific Fruit & Produce Co.: *See*—
Pacific Gamble Robinson Company.

Pacific Gamble Robinson Company, doing business as Pacific Fruit & Produce Co., Seattle, Wash. Fresh potatoes. 557,287, Apr. 8; Serial No. 604,703, published Jan. 15, 1952. Class 46.

Pangborn Corporation, Hagerstown, Md. Granular abrasive materials. 557,258, Apr. 8; Serial No. 602,468, published Jan. 8, 1952. Class 4.

Parfums Ciro, Inc.: *See*—
Gibson, Guy T., Inc.

Parkview Markets, Inc., Cincinnati, Ohio. Canned vegetables, canned fruits. 557,229, Apr. 8; Serial No. 597,035, published Jan. 8, 1952. Class 46.

Parrott & Co., San Francisco, Calif. Canned fish and canned shellfish. 557,331, Apr. 8; Serial No. 610,020, published Jan. 15, 1952. Class 46.

Pasolds Limited, Langley, England. Underwear, pyjamas, dressing gowns, etc. 557,202, Apr. 8; Serial No. 591,315, published Jan. 15, 1952. Class 39.

Payne Coal Sales Company, Inc., Wilkes-Barre, Pa. Coal. 557,380, Apr. 8; Serial No. 612,930, published Jan. 1, 1952. Class 1.

Pearlduck, Inc.: *See*—
Bresduck, Inc.

Pearlduck, Inc., New York, N. Y. Razors, scissors, shears, etc. 438,271, Apr. 13, 1948. Republished Apr. 8. Class 23.

Penguin Books, Inc., Baltimore, Md. Books. 557,412, Apr. 8; Serial No. 615,020, published Jan. 8, 1952. Class 38.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y., to J. C. Penney Company, New York, N. Y. Men's, women's and children's bathing suits. 291,655, renewed Feb. 23, 1952. O. G. Apr. 8. Class 39.

People's Outfitting Company, Detroit, Mich. Men's and boys' clothing. 292,414, renewed Mar. 15, 1952. O. G. Apr. 8. Class 39.

Perry, Paul E., New York, N. Y. Ashtrays. 557,392, Apr. 8; Serial No. 613,944, published Jan. 8, 1952. Class 8.

Pfanstiehl Chemical Company, Chicago and Waukegan, Ill. Metal phonograph needles. 557,436, Apr. 8; Serial No. 602,626. Class 36.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Antibiotic preparation. 553,135, Jan. 8, 1952. Corrected. O. G. Apr. 8. Class 18.

Phi Alpha Theta, Allentown, Pa. Publication. 557,280, Apr. 8; Serial No. 604,383, published Jan. 8, 1952. Class 38.

Phillips Publishers, Inc., Newton, Mass. Paper toys. 557,205, Apr. 8; Serial No. 591,798, published Dec. 11, 1951. Class 22.

Pioneer Rubber Company, The, Willard, Ohio. Household and industrial gloves. 557,358, Apr. 8; Serial No. 612,033, published Jan. 15, 1952. Class 39.

Porter, H. K., Inc., Somerville, Mass. Combination hand tool. 557,437, Apr. 8; Serial No. 603,857. Class 23.

Porter, H. K., Company, Inc., Pittsburgh, Pa. Hydraulic valve operating units. 557,151, Apr. 8; Serial No. 573,893, published Dec. 25, 1951. Class 23.

Prairie Farmer Publishing Company, The, Chicago, Ill. Weekly periodical. 557,269, Apr. 8; Serial No. 603,544, published Jan. 22, 1952. Class 38.

Precision Specialties: *See*—
Precision Specialties, Inc.

Precision Specialties, Inc., Los Angeles, Calif., assignee of Precision Specialties. Drawing games and toy telephones. 557,097, Apr. 8; Serial No. 498,543, published Jan. 1, 1952. Class 22.

Premier Vacuum Cleaner Co., The, Cleveland, Ohio, to General Electric Company, Schenectady, N. Y. Vacuum-cleaners. 85,766, re-renewed Mar. 12, 1952. O. G. Apr. 8. Class 23.

Pure Carbonic Company of America, to Air Reduction Company, Incorporated, New York, N. Y. Liquid carbon dioxide. 293,891, renewed May 10, 1952. O. G. Apr. 8. Class 6.

Pure Oil Company, The, Chicago, Ill. Toilet and laundry soap, automobile soap, etc. 291,123, renewed Jan. 26, 1952. O. G. Apr. 8. Class 52.

Purple Blade Corporation, New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass. Razor blades. 557,117, Apr. 8; Serial No. 537,359, published Dec. 18, 1951. Class 23.

Quercia, Marcel, Paris, France. Pyrophoric lighters. 557,166, Apr. 8; Serial No. 578,706, published Jan. 8, 1952. Class 8.

Radio-Television Training School, Inc., also doing business as California Academy of Screen Process, Los Angeles, Calif. Teaching screen process printing by correspondence. 557,424, Apr. 8; Serial No. 607,141, published Jan. 15, 1952. Class 107.

Rahal, Joseph E., doing business as The Rahal Packing Co. Inc., Cleveland, Ohio, by Sunshine Packing Corporation of Pennsylvania, North East, Pa. Canned fruits. 284,818, July 7, 1931. Republished Apr. 8. Class 46.

Rahal Packing Co. Inc., The: *See*—
Rahal, Joseph E.

Rath Packing Company, The, Waterloo, Iowa. Dressed young chickens, dressed fowl, and dressed young Tom turkeys. 557,250, Apr. 8; Serial No. 600,972, published Jan. 15, 1952. Class 46.

Rath Packing Company, The, Waterloo, Iowa. Ham, pork shoulder picnic, pork shoulder butt, etc. 557,278, Apr. 8; Serial No. 604,228, published Jan. 15, 1952. Class 46.

Regal Shoe Company, assignee: *See*—
Regal Shoe Company, Inc.

Regal Shoe Company, Inc., Boston, assignor to Regal Shoe Company, to Regal Shoe Company, Whitman, Mass. Leather boots and shoes. 85,003, re-renewed Jan. 16, 1952. O. G. Apr. 8. Class 39.

Reliance Products Corporation, Portland, Oreg. Oil burners, oil burning stoves, and parts thereof. 557,131, Apr. 8; Serial No. 554,415, published Jan. 8, 1952. Class 34.

Rembrandt Lamp Corporation, Chicago, Ill. Lamp shades primarily intended for electrical lamps. 557,240, Apr. 8; Serial No. 599,588, published Jan. 8, 1952. Class 21.

Research Products Company, Kansas City, Mo. Insecticides. 557,360–1, Apr. 8; Serial Nos. 612,089–90, published Jan. 8, 1952. Class 6.

Resetar, P. M., Watsonville, Calif. Fresh berries, fresh deciduous fruits, fresh vegetables, and dried fruits. 293,812, renewed May 3, 1952. O. G. Apr. 8. Class 46.

Rexall Drug Company: *See*—
United Drug Co.

Rilling Company, New York, N. Y. Hair creams. 557,211, Apr. 8; Serial No. 593,442, published Jan. 1, 1952. Class 51.

Rincon, E. A., & Co.: *See*—
Rincon, Enrique A.

Rincon, Enrique A., doing business under the firm name and style of E. A. Rincon & Co., Fresno, Calif. Wheat flour. 557,277, Apr. 8; Serial No. 604,116, published Jan. 15, 1952. Class 46.

Robbins Tire & Rubber Company, Inc., Tuscumbia, Ala. Inner tubes for pneumatic tires. 557,371, Apr. 8; Serial No. 612,508, published Jan. 8, 1952. Class 35.

Roberts & Porter, Inc., Chicago, Ill. Plate solutions. 557,338, Apr. 8; Serial No. 610,800, published Jan. 8, 1952. Class 6.

Robinson, Harold B., doing business under the name and style of Neo-Photo, New York, N. Y. Photographic prints. 557,230, Apr. 8; Serial No. 597,296, published Jan. 15, 1952. Class 38.

Rockwell Manufacturing Company, Pittsburgh, Pa. Periodical publications, prints and plans. 557,349, Apr. 8; Serial No. 611,543, published Jan. 22, 1952. Class 38.

Roessler & Hasslacher Chemical Company, Inc., The, New York, N. Y., to E. I. du Pont de Nemours and Company, Wilmington, Del. Dry cleaning fluid. 294,535, renewed May 31, 1952. O. G. Apr. 8. Class 52.

Rollit & Height Plastic Co.: *See*—
Rollit, Valgerta M.

Rollit, Valgerta M., doing business as Rollit & Haight Plastic Co., Santa Cruz, Calif. Liquid cleaner and polish. 557,224, Apr. 8; Serial No. 596,050, published Jan. 15, 1952. Class 4.

Roquefort Association, Inc.: *See*—
Douglas, Bernard M.

Rosten, Jay, doing business as Jaysen Strips Co., Brooklyn, N. Y. Perforated metal strips. 557,433, Apr. 8; Serial No. 590,946. Class 13.

Royce Chemical Company, Carlton Hill, N. J. Sulphonated castor oil. 292,822, renewed Mar. 29, 1952. O. G. Apr. 8. Class 6.

Royce Chemical Company, Carlton Hill, N. J. Hydrosulphides. 292,823, renewed Mar. 29, 1952. O. G. Apr. 8. Class 6.

Royce Chemical Company, Carlton Hill, N. J. Hydrosulphite. 294,610, renewed June 7, 1952. O. G. Apr. 8. Class 6.

Ruskin Manufacturing Company, Los Angeles, Calif. Electric lamps. 557,312, Apr. 8; Serial No. 606,900, published Jan. 1, 1952. Class 21.

S. A. Establecimiento Modelo Terrabusi: *See*—
Terrabusi, Ambrosius U.

S & 8 Cone Corporation, New York, N. Y. Empty ice cream cones. 557,182, Apr. 8; Serial No. 587,134, published Jan. 8, 1952. Class 46.

Sargeant Acnoid Pharmaceutical Co., Inc., assignee: *See*—
Sargeant, Stanley M.

Sargeant, Stanley M., assignor to Sargeant Acnoid Pharmaceutical Co., Inc., Highland Mills, N. Y. Cosmetics. 557,168, Apr. 8; Serial No. 579,218, published Sept. 19, 1950. Class 51.

Savonneries Lever, Paris, France. Household soap, toilet soap, medicated soap, etc. 557,098, Apr. 8; Serial No. 500,186, published Jan. 8, 1952. Class 52.

Schaefer Advertising Agency: *See*—
Schaefer, Paul A.

Schaefer, Paul A., doing business as Schaefer Advertising Agency, St. Paul, Minn. Sales promotion coupon books. 557,415, Apr. 8; Serial No. 615,796, published Jan. 22, 1952. Class 38.

Schenley Laboratories, Inc., New York, N. Y. Compound used in relief of head colds. 557,372, Apr. 8; Serial No. 612,511, published Nov. 27, 1951. Class 18.

Schwabacher-Frey Company, San Francisco, Calif. Lithographed labels. 557,376, Apr. 8; Serial No. 612,706, published Jan. 15, 1952. Class 38.

Scott, Foresman and Company, Chicago, Ill. Series of children's educational books and pamphlets. 557,284, Apr. 8; Serial No. 604,551, published Jan. 1, 1952. Class 38.

Scott Radio Laboratories, Inc., Chicago, Ill. Television receiving sets. 557,313, Apr. 8; Serial No. 607,199, published Jan. 22, 1952. Class 21.

Scramlin, Henry W., trading and doing business under the name of Terminal Van Lines, St. Petersburg, Fla. Motor van transportation. 557,426, Apr. 8; Serial No. 609,884, published Jan. 15, 1952. Class 105.

Seat Saver Company: *See*—
Comart, Roy.

Sebel, D., and Company Limited, Erith, Kent, England. Wheeled toy. 557,144, Apr. 8; Serial No. 568,673, published Dec. 25, 1951. Class 22.

Seg-Mar, Inc., New Orleans, La. Clothing. 557,389, Apr. 8; Serial No. 613,654, published Jan. 8, 1952. Class 39.

Service Industries (A Trust), Philadelphia, Pa. All purpose cleaner. 557,208, Apr. 8; Serial No. 592,166, published Dec. 25, 1951. Class 52.

Shapleigh Hardware Company: *See*—
Norvell-Shapleigh Hardware Company.

Shari Candies, Inc., North Mankato, Minn., assignee of Key City Wholesale Supply Company. Candies and nut meats. 557,106, Apr. 8; Serial No. 521,261, published Apr. 3, 1951. Class 46.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Pills. 292,293, renewed Mar. 8, 1952. O. G. Apr. 8. Class 18.

Shawinigan Products Corporation, New York, N. Y. Acetylene carbon black. 557,265, Apr. 8; Serial No. 603,464, published Jan. 15, 1952. Class 6.

Sirac, Inc., assignor to Caris-Art Inc., Brooklyn, N. Y. Dolls. 557,232, Apr. 8; Serial No. 597,631, published Dec. 25, 1951. Class 22.

Sloane, W. & J., New York, N. Y. Electric lamps, lighting fixtures, chandeliers, etc. 557,174, Apr. 8; Serial No. 582,058, published Jan. 22, 1952. Class 21.

Small Town & Farm Markets Institute, Incorporated, New Canaan, Conn. Published analyses. 557,213, Apr. 8; Serial No. 593,691, published Jan. 15, 1952. Class 38.

Societe Anonyme: Le Carbone Lorraine, Paris, France. Arc light carbons. 557,403, Apr. 8; Serial No. 614,316, published Dec. 18, 1951. Class 21.

Southern Acid & Sulphur Company, Incorporated, St. Louis, Mo., assignor to Mathieson Chemical Corporation, New York, N. Y. Sulphur. 557,156, Apr. 8; Serial No. 576,152, published Jan. 15, 1952. Class 6.

Southern Acid & Sulphur Company, Incorporated, St. Louis, Mo., assignor to Mathieson Chemical Corporation, New York, N. Y. Refined flour sulphur. 557,157, Apr. 8; Serial No. 576,157, published Jan. 8, 1952. Class 6.

Speed-Flex, Inc., Webster City, Iowa. Laundry equipment. 557,206, Apr. 8; Serial No. 591,809, published Jan. 15, 1952. Class 24.

Speed Queen Corporation: *See*—
Barlow & Seelig Mfg. Co.

Spud Chips Inc.: *See*—
Greeley Spud Chip Company.

Standard Milling Company: *See*—
Minkota Milling Company.

Standard Milling Company, New York, N. Y., by Standard Milling Company, Chicago, Ill. Milled wheat product. 385,128, Feb. 18, 1941. Republished Apr. 8. Class 46.

Stauffer Chemical Company, San Francisco, Calif. Wetting agent. 557,204, Apr. 8; Serial No. 591,754, published Jan. 15, 1952. Class 6.

Steinwender, Stoffregen & Co., New York, N. Y. Green coffee. 557,420, Apr. 8; Serial No. 616,252, published Jan. 15, 1952. Class 46.
Sternbergh, Quentin C., assignee: *See*—
American Die & Tool Co., Inc.
Sternbergh, Solon A., assignee: *See*—
American Die & Tool Co., Inc.
Steven Candy Kitchens, Inc., Chicago, Ill. Candies. 557,387, Apr. 8; Serial No. 613,428, published Dec. 11, 1951. Class 46.
Stoody Company, Whittier, Calif. Quarterly publication. 557,381, Apr. 8; Serial No. 613,030, published Jan. 15, 1952. Class 38.
Storey, Marjorie E. and W. H., Cambridge, England. Teething-ring appliances for infants. 557,216, Apr. 8; Serial No. 594,241, published Jan. 1, 1952. Class 44.
Storey, William H.: *See*—
Storey, Marjorie E. and W. H.
Stove, Roy C., & Company, Chicago, Ill. Ultra violet light fixture. 557,145–6, Apr. 8; Serial Nos. 572,348–9, published Jan. 1, 1952. Class 21.
Stream-Eze, Inc., South Bend, Ind. Fishing tackle. 557,235, Apr. 8; Serial No. 598,439, published Jan. 22, 1952. Class 22.
Strong Electric Corporation, The, Toledo, Ohio. Electric projection lamps, electric rectifiers, and parts thereof. 557,176, Apr. 8; Serial No. 583,560, published Jan. 22, 1952. Class 21.
Sucher Packing Company, The, Dayton, Ohio. Meat and meat products. 557,320, Apr. 8; Serial No. 608,901, published Jan. 22, 1952. Class 46.
Sunshine Packing Corporation of Pennsylvania: *See*—
Rahal, Joseph E.
Super Steel Products Co., Milwaukee, Wis. Sky lights. 557,154, Apr. 8; Serial No. 574,983, published Dec. 18, 1951. Class 12.
Talon, Inc., Meadville, Pa. Periodicals. 557,289, Apr. 8. Serial No. 604,751, published Jan. 1, 1952. Class 38.
Tappan Stove Company, The, Mansfield, Ohio. Electric ranges and stoves. 557,434, Apr. 8; Serial No. 597,985. Class 21.
Televex Company: *See*—
Epstein, Sol.
Terminal Van Lines: *See*—
Scramlin, Henry W.
Terrabusi, Ambrosius U., doing business as Establecimiento Modelo Terrabusi, by S. A. Establecimiento Modelo Terrabusi. Buenos Aires, Argentina. Bakery products. 268,630, Mar. 18, 1930. Republished Apr. 8. Class 46.
Texas Engineering and Manufacturing Company, Inc., Grand Prairie, Tex. Airplanes and the structural or body parts of airplanes. 557,401, Apr. 8; Serial No. 614,175, published Jan. 1, 1952. Class 19.
Thalson Company, San Francisco, Calif. Smoking pipes. 557,238–9, Apr. 8; Serial Nos. 599,287–8, published Jan. 1, 1952. Class 8.
Thompson, Marvin R., Inc., assignee: *See*—
Thompson, Paul.
Thompson, Paul, Associates, assignor to Marvin R. Thompson, Inc., Stamford, Conn. Nutritional preparation containing amino acids and vitamins. 557,226, Apr. 8; Serial No. 596,459, published Nov. 27, 1951. Class 18.
Thompson, Virginia B.: *See*—
A. I. O. Company.
Tomic Taters, Harlingen, Tex. French fried potatoes. 557,186, Apr. 8; Serial No. 587,511, published Jan. 15, 1952. Class 46.
Tompkins' Label Service, Philadelphia, Pa. Printed labels. 557,319, Apr. 8; Serial No. 608,774, published Jan. 22, 1952. Class 38.
Traders Oil Mill Company, Fort Worth, Tex. Livestock feed. 557,194, Apr. 8; Serial No. 589,280, published Dec. 25, 1951. Class 46.
Triple Value Products Co.: *See*—
McGinnis, Ada.
Unimatic Corporation, Nutley, N. J. Electrical cable connectors. 557,408, Apr. 8; Serial No. 614,524, published Jan. 8, 1952. Class 21.
United Cigar-Whelan Stores Corporation, New York, N. Y. Playing cards. 557,430, Apr. 8; Serial No. 515,003. Class 22.
United Drug Co., Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Candy. 84,889, re-renewed Jan. 9, 1952. O. G. Apr. 8. Class 46.
United Parcel Service of America, Inc., Wilmington, Del. Printed periodicals. 557,413, Apr. 8; Serial No. 615,586, published Jan. 22, 1952. Class 38.
Valier & Spies Milling Company: *See*—
Flour Mills of America, Inc.
Van Cleef Bros., Inc., Chicago, Ill. Bearing blue. 557,251. Apr. 8; Serial No. 601,001, published Jan. 15, 1952. Class 6.
Van Dusen Harrington Co., Minneapolis, Minn. Rye flour. 557,124, Apr. 8; Serial No. 545,663, published Jan. 15, 1952. Class 46.
Virginia-Carolina Chemical Corporation, Richmond, Va. Machine dishwashing compound. 557,340, Apr. 8; Serial No. 610,932, published Dec. 25, 1951. Class 52.
Vive Publishing Co., Chicago, Ill. Monthly magazine. 557,397, Apr. 8; Serial No. 614,112, published Jan. 1, 1952. Class 38.
Warner Brothers Company, The, Bridgeport, Conn. Women's underclothing. 292,655, renewed Mar. 22, 1952. O. G. Apr. 8. Class 39.
Warner Brothers Company, The, Bridgeport, Conn. Knitted, netted, and textile fabrics. 293,101, renewed Apr. 12, 1952. O. G. Apr. 8. Class 42.
Warner-Hudnut, Inc., New York, N. Y. Drug having physostigmine action. 557,370, Apr. 8; Serial No. 612,476, published Nov. 27, 1951. Class 18.
Wass Food Products Co., Chicago, Ill. Salad dressing, mayonnaise dressing, pancake mix, etc. 557,334, Apr. 8; Serial No. 610,242, published Jan. 15, 1952. Class 46.
West Disinfecting Company, New York, to West Disinfecting Company, Long Island City, N. Y. Disinfecting fluid. 84,772, re-renewed Jan. 2, 1952. O. G. Apr. 8. Class 6.
West Laboratories, Inc., Long Island City, N. Y. Chemical compositions. 557,388, Apr. 8; Serial No. 613,543, published Jan. 15, 1952. Class 6.
West Shore Machine Company, assignee: *See*—
American Die & Tool Co., Inc.
Western Clock Company, Peru, Ill., by General Time Corporation, New York, N. Y. Electrical motors. 290,590, Jan. 12, 1932. Republished Apr. 8. Class 21.
Western Clock Company, Peru, Ill., by General Time Corporation, New York, N. Y. Electrical motors. 290,591–2, Jan. 12, 1932. Republished Apr. 8. Class 21.
Western Clock Company, Peru, Ill., by General Time Corporation, New York, N. Y. Electrical motors. 290,594, Jan. 12, 1932. Republished Apr. 8. Class 21.
Wilkening Manufacturing Company, Philadelphia, Pa. Piston rings. 557,237, Apr. 8; Serial No. 599,043, published Jan. 8, 1952. Class 35.
Willard Storage Battery Company, Cleveland, Ohio. Separators or insulators used in storage batteries. 557,404, Apr. 8; Serial No. 614,325, published Dec. 18, 1951. Class 21.
Willis Hosiery Mills Inc., Concord, N. C. Hosiery. 557,356, Apr. 8; Serial No. 611,927, published Jan. 15, 1952. Class 39.
Willoughby, George V., doing business under the assumed name of Century Products Co., Seattle, Wash. Liquid dry cleaner. 557,279, Apr. 8; Serial No. 604,285, published Jan. 1, 1952. Class 52.
Winston Bros. Company, Minneapolis, Minn. Construction services and construction engineering in the construction of dams, locks, etc. 557,422, Apr. 8; Serial No. 588,120, published Jan. 15, 1952. Class 103.
Wolseley Motors, Limited, Oxford and Cowley, Oxford, England. Automobiles. 557,123, Apr. 8; Serial No. 545,065, published Jan. 1, 1952. Class 19.
Wyandotte Chemicals Corporation, Wyandotte, Mich. Synthetic detergent compound. 557,184, Apr. 8; Serial No. 587,413, published Jan. 8, 1952. Class 52.
Xterminator Products Corporation, Jersey City, N. J. Rodenticide. 557,374, Apr. 8; Serial No. 612,573, published Jan. 15, 1952. Class 6.
Yates-American Machine Company, Beloit, Wis. Woodworking machinery and tools therefor. 557,296, Apr. 8; Serial No. 605,773, published Dec. 18, 1951. Class 23.
Youth Associates Company, Minneapolis, Minn. Periodical. 557,305, Apr. 8; Serial No. 606,402, published Jan. 22, 1952. Class 38.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Carnations. New England Carnation Growers Association, Inc. 557,428, Apr. 8; Serial No. 610,377, published Dec. 25, 1951.
Coal. Amherst-Logan County Coal Corporation. 291,868, renewed Feb. 23, 1952. O. G. Apr. 8.
Coal. Payne Coal Sales Company, Inc. 557,380, Apr. 8; Serial No. 612,930, published Jan. 1, 1952.
Kid-leather, Uncut. New Castle Leather Co. 86,439, renewed May 7, 1952. O. G. Apr. 8.
Leather, Finished. A. C. Lawrence Leather Company. 85,911, Mar. 26, 1912. Republished Apr. 8.
Sisal fibre. Compania De Jarcia De Matanzas, S. A. 295,154, renewed June 21, 1952. O. G. Apr. 8.
Sisal fibre. Compania De Jarcia De Matanzas S. A. 295,153, renewed June 21, 1952. O. G. Apr. 8.

CLASS 2

Bags, Paper. Gulf States Paper Corporation. 557,276, Apr. 8; Serial No. 604,094, published May 8, 1951.
Cartons, Corrugated, paper cups, plates, etc. C. E. King. 557,164, Apr. 8; Serial No. 578,599, published May 8, 1951.

CLASS 4

Abrasive materials, Granular. Pangborn Corporation. 557,258, Apr. 8; Serial No. 602,468, published Jan. 8, 1952.
Chemically treated paper sheets used for cleaning and polishing. The Munising Paper Company. 557,262, Apr. 8; Serial No. 603,246, published Jan. 15, 1952.
Cleaner and polish, Liquid. V. M. Rollit. 557,224, Apr. 8; Serial No. 596,050, published Jan. 15, 1952.
Wax preparation, Liquid. Boyle-Midway Inc. 557,197, Apr. 8; Serial No. 589,707, published Jan. 15, 1952.
Waxes, Self-polishing. Midland Laboratories. 557,103, Apr. 8; Serial No. 516,626, published Jan. 15, 1952.

CLASS 6

Acetylene carbon black. Shawinigan Products Corporation. 557,265, Apr. 8; Serial No. 603,464, published Jan. 15, 1952.
Aerosol bombs. Hysan Products Company. 557,343, Apr. 8; Serial No. 610,975, published Jan. 15, 1952.
Aluminum soaps. Mallinckrodt Chemical Works. 557,411, Apr. 8; Serial No. 615,017, published Jan. 15, 1952.
Anti-slip preparation for bowlers' hands. The Brunswick-Balke-Collender Company. 557,152, Apr. 8; Serial No. 574,014, published Jan. 15, 1952.
Bleach, Powdered houshold laundry. Imperial Products Company. 557,406, Apr. 8; Serial No. 614,441, published Jan. 22, 1952.
Blue, Bearing. Van Cleef Bros., Inc. 557,251, Apr. 8; Serial No. 601,001, published Jan. 15, 1952.
Carbon black. Godfrey L. Cabot, Inc. 557,209, Apr. 8; Serial No. 592,302, published Jan. 15, 1952.
Carbon black. Godfrey L. Cabot, Inc. 557,351, Apr. 8; Serial No. 611,599, published Jan. 15, 1952.
Carbon dioxide, Liquid. Pure Carbonic Company of America. 293,891, renewed May 10, 1952. O. G. Apr. 8.
Castor oil, Sulphonated. Royce Chemical Company. 292,822, renewed Mar. 29, 1952. O. G. Apr. 8.
Chemical composition. J. H. Fessler. 557,357, Apr. 8; Serial No. 611,950, published Jan. 15, 1952.
Chemical compositions. West Laboratories, Inc. 557,388, Apr. 8; Serial No. 613,543, published Jan. 15, 1952.
Chemical preparation. Gla-Zol Corporation. 557,175, Apr. 8; Serial No. 582,286, published Jan. 15, 1952.
Chemicals, Absorbent. E. A. Aldridge. 557,429, Apr. 8; Serial No. 488,951.
Dimer acid. Emery Industries, Inc. 557,384, Apr. 8; Serial No. 613,216, published Jan. 8, 1952.
Disinfecting fluid. West Disinfecting Company. 84,772, re-renewed Jan. 2, 1952. O. G. Apr. 8.
Fluorinated hydrocarbons. Kinetic Chemicals, Inc. 293,850, renewed May 10, 1952. O. G. Apr. 8.
Formaldehyde and solutions containing formaldehyde. Heyden Chemical Corporation. 557,336, Apr. 8; Serial No. 610,267, published Jan. 15, 1952.
Hydraulic fluid. R. M. Hollingshead Corporation. 557,417, Apr. 8; Serial No. 615,896, published Jan. 15, 1952.
Hydrosulphides. Royce Chemical Company. 292,823, renewed Mar. 29, 1952. O. G. Apr. 8.
Hydrosulphite. Royce Chemical Company. 294,610, renewed June 7, 1952. O. G. Apr. 8.
Insecticides. Bridgeport Brass Company. 557,317, Apr. 8; Serial No. 607,926, published Jan. 15, 1952.
Insecticides. E. L. Bruce Company. 290,733, renewed Jan. 12, 1952. O. G. Apr. 8.
Insecticides. Cook Chemical Company. 557,330, Apr. 8; Serial No. 609,914, published Jan. 15, 1952.
Insecticides. Hi-Yield Fertilizer Company. 557,355, Apr. 8; Serial No. 611,784, published Jan. 15, 1952.
Insecticides. Research Products Company. 557,360–1, Apr. 8; Serial Nos. 612,089–90, published Jan. 8, 1952.
Methanol, Synthetic. E. I. du Pont de Nemours and Company. 293,917, renewed May 10, 1952. O. G. Apr. 8.
Mono- and poly-hydroxyphenols, alkyl-phenols, aromatic (coal tar) hydrocarbons, etc. Koppers Company, Inc. 557,158, Apr. 8; Serial No. 576,645, published Jan. 8, 1952.
Pest control compositions, compositions for agricultural pest control, etc. Nuodex Products Co., Inc. 557,177, Apr. 8; Serial No. 584,635, published Nov. 27, 1951.
Plate solutions. Roberts & Porter, Inc. 557,338, Apr. 8; Serial No. 610,800, published Jan. 8, 1952.
Potassium nitrate (saltpetre), sodium nitrate, borax, boric acid, etc. Croton Chemical Corporation. 557,228, Apr. 8; Serial No. 596,563, published Jan. 15, 1952.
Resins, Synthetic. Monsanto Chemical Company. 557,192, Apr. 8; Serial No. 589,032, published Jan. 8, 1952.
Rodenticide. Xterminator Products Corporation. 557,374, Apr. 8; Serial No. 612,573, published Jan. 15, 1952.
Static dust preventive. Emerson Radio and Phonograph Corporation. 557,344, Apr. 8; Serial No. 611,027, published Jan. 8, 1952.
Sulphur. Southern Acid & Sulphur Company, Incorporated. 557,156, Apr. 8; Serial No. 576,152, published Jan. 15, 1952.
Sulphur, Refined flour. Southern Acid & Sulphur Company, Incorporated. 557,157, Apr. 8; Serial No. 576,157, published Jan. 8, 1952.
Synthetic resins, and blends of synthetic resins with natural and synthetic elastomers and resins. Marbon Corporation. 557,329, Apr. 8; Serial No. 609,806, published Jan. 15, 1952.
Wetting agent. Stauffer Chemical Company. 557,204, Apr. 8; Serial No. 591,754, published Jan. 15, 1952.

CLASS 8

Ashtrays. P. E. Perry. 557,392, Apr. 8; Serial No. 613,944, published Jan. 8, 1952.
Lighters, Pyrophoric. M. Quercia. 557,166, Apr. 8; Serial No. 578,706, published Jan. 8, 1952.
Lighters, Pyrophoric and catalytic. Knapp-Monarch Company. 557,095, Apr. 8; Serial No. 476,803, published Jan. 15, 1952.
Pipes, Smoking. Thalson Company. 557,238–9, Apr. 8; Serial Nos. 599,287–8, published Jan. 1, 1952.

CLASS 9

Gas porting devices. R. M. Cutts. 557,114, Apr. 8; Serial No. 536,675, published Nov. 20, 1951.

CLASS 10

Fertilizer, Agricultural. Jackson Fertilizer Co. 557,318, Apr. 8; Serial No. 608,705, published Jan. 15, 1952.
Fertilizer, Liquid. Gro-Crop, Inc. 557,439, Apr. 8; Serial No. 604,260.
Fertilizers. The Espoma Company. 557,316, Apr. 8; Serial No. 607,745, published Jan. 15, 1952.
Fertilizers. Gro-Ur-Own Chemical Gardens, Inc. 557,245, Apr. 8; Serial No. 600,130, published Jan. 15, 1952.
Fertilizers and ingredients of fertilizers. Allied Chemical & Dye Corporation. 557,260, Apr. 8; Serial No. 602,874, published Dec. 25, 1951.
Plant soil. Hyper-Humus Company. 557,246, Apr. 8; Serial No. 600,169, published Jan. 8, 1952.

CLASS 12

Blocks, bricks, and tiles, Structural. National Fire Proofing Company. 86,436, re-renewed May 7, 1952. O. G. Apr. 8.
Cement. The Asbestolith Company. 38,412, re-renewed June 3, 1952. O. G. Apr. 8.
Felt and asphalt roofing, composition shingles, composition siding material, etc. El Rey Products Co. 290,489, renewed Jan. 5, 1952. O. G. Apr. 8.
Ingredient to be introduced in cement mixes to expand the same into porous concrete. The Aerocrete Corporation of America. 557,249, Apr. 8; Serial No. 600,641, published Dec. 18, 1951.
Sky lights. Super Steel Products Co. 557,154, Apr. 8; Serial No. 574,983, published Dec. 18, 1951.
Weather stripping, Metal and felt, metal weatherstripping, and felt weather stripping. Macklanburg-Duncan Company. 281,626, renewed Mar. 24, 1951. O. G. Apr. 8.

CLASS 13

Bolts, nuts, and metal washers. Bultfabriks Aktiebolaget. 291,080, renewed Jan. 26, 1952. O. G. Apr. 8.
Perforated metal strips. J. Rosten. 557,433, Apr. 8; Serial No. 590,946.

CLASS 14

Iron and steel sheets, Galvanized. The American Rolling Mill Company. 290,355, renewed Jan. 5, 1952. O. G. Apr. 8.
Wire. The American Steel and Wire Company of New Jersey. 290,358, renewed Jan. 5, 1952. O. G. Apr. 8.

CLASS 15

Gasoline. H. Earl Clack Company. 135,415, Oct. 12, 1920. Republished Apr. 8.
Kerosene. H. Earl Clack Company. 132,647, June 29, 1920. Republished Apr. 8.
Oils, Motor. H. Earl Clack Company. 141,897, May 3, 1921. Republished Apr. 8.

CLASS 16

Wall texture preparation. Art-Tex Adhesive Products, Inc. 291,019, Jan. 26, 1932. Republished Apr. 8.

CLASS 17

Tobacco, Smoking, and cigarettes. Larus & Brothers Company, Incorporated. 291,854, Feb. 23, 1932. Republished Apr. 8.

CLASS 18

Alterative solution. Kress & Owen Company. 38,081, re-renewed Apr. 8, 1952. O. G. Apr. 8.
Anti-allergy preparation. F. S. Malcolm. 557,324, Apr. 8; Serial No. 609,598, published Nov. 27, 1951.
Antibiotic preparation. Chas. Pfizer & Co., Inc. 553,135, Jan. 8, 1952. Corrected. O. G. Apr. 8.
Antibiotic product. Lepetit S. A. 557,233–4, Apr. 8; Serial Nos. 597,887–8, published Nov. 27, 1951.
Compound used in relief of head colds. Schenley Laboratories, Inc. 557,372, Apr. 8; Serial No. 612,511, published Nov. 27, 1951.
Drug having physostigmine action. Warner-Hudnut, Inc. 557,370, Apr. 8; Serial No. 612,476, published Nov. 27, 1951.
Nutritional preparation containing amino acids and vitamins. Paul Thompson Associates. 557,226, Apr. 8; Serial No. 596,459, published Nov. 27, 1951.
Ointment. A. I. O. Company. 283,219, renewed May 19, 1951. O. G. Apr. 8.

Ointment preparation, Pharmaceutical. The S. E. Massengill Company. 557,367, Apr. 8; Serial No. 612,340, published Nov. 27, 1951.
Pharmaceutical preparation. International Hormones, Inc. 557,183, Apr. 8; Serial No. 587,264, published Nov. 20, 1951.
Pharmaceutical preparation. The S. E. Massengill Company. 557,363–6, Apr. 8; Serial Nos. 612,337–8, published Nov. 27, 1951.
Pharmaceutical preparation. The S. E. Massengill Company. 557,368, Apr. 8; Serial No. 612,341, published Nov. 27, 1951.
Pills. Sharp & Dohme, Incorporated. 292,293, renewed Mar. 8, 1952. O. G. Apr. 8.
Preparation for use as a sedative, analgesic, and antipyretic. Burroughs Wellcome & Co. (U. S. A.) Inc. 557,321, Apr. 8; Serial No. 608,916, published Nov. 27, 1951.
Single preparation in the form of a white powder put up in colored capsules used as a concentrated germicide, antiseptic and deodorant. 557,221, Apr. 8; Serial No. 595,818, published Nov. 27, 1951.
Suppository, Vaginal. Chicago Pharmacal Company. 401,202, Apr. 27, 1943. Republished Apr. 8.

CLASS 19

Aircraft. North American Aviation, Inc. 557,396, Apr. 8; Serial No. 614,095, published Jan. 1, 1952.
Airplanes and the structural or body parts of airplanes. Texas Engineering and Manufacturing Company, Inc. 557,401, Apr. 8; Serial No. 614,175, published Jan. 1, 1952.
Automobiles. Wolseley Motors, Limited. 557,123, Apr. 8; Serial No. 545,065, published Jan. 1, 1952.
Automotive brake cylinder kits. C. E. Niehoff & Co. 557,173, Apr. 8; Serial No. 581,971, published Jan. 1, 1952.
Bicycle and component parts thereof. Hercules Cycle and Motor Company, Limited. 557,310, Apr. 8; Serial No. 606,660, published Jan. 1, 1952.
Bicycles. Arnold, Schwinn & Co. 557,347, Apr. 8; Serial No. 611,468, published Jan. 1, 1952.
Ornamental trim, replacement ornamental crank knobs, windshield wiper control knobs, etc. National Autocraft Manufacturing Co. 557,259, Apr. 8; Serial No. 602,706, published Jan. 1, 1952.
Trailers, General cargo van, live stock trailers, refrigerated trailers, etc. Fruehauf Trailer Company. 557,314, Apr. 8; Serial No. 607,425, published Jan. 1, 1952.
Wheelbarrows. Belknap Hardware and Manufacturing Company. 557,394, Apr. 8; Serial No. 613,965, published Jan. 1, 1952.

CLASS 21

Accessories for electric vacuum cleaners. The Lee Products Co., Inc. 557,292, Apr. 8; Serial No. 605,430, published Jan. 1, 1952.
Alkali-vaporous discharge tubes. FKG Fritz Kesselring Geräitebau A. G. 557,309, Apr. 8; Serial No. 606,653, published Jan. 8, 1952.
Antennas, Indoor. Hi-Lo TV Antenna Corp. 557,307, Apr. 8; Serial No. 606,425, published Jan. 22, 1952.
Arc light carbons. Societe Anonyme: Le Carbone Lorraine. 557,403, Apr. 8; Serial No. 614,316, published Dec. 18, 1951.
Audio-amplifier units, Electronic. Globe-Union Inc. 557,398, Apr. 8; Serial No. 614,138, published Jan. 22, 1952.
Audio-detector units, Electronic. Globe-Union Inc. 557,399, Apr. 8; Serial No. 614,139, published Jan. 22, 1952.
Balanced diode load filter units. Globe-Union Inc. 557,400, Apr. 8; Serial No. 614,140, published Jan. 22, 1952.
Batteries, Dry cell electrical. P. R. Mallory & Co., Inc. 557,242, Apr. 8; Serial No. 599,889, published Jan. 1, 1952.
Batteries, Electric storage, and electric dry cells. Marshall-Wells Company. 557,419, Apr. 8; Serial No. 616,113, published Jan. 22, 1952.
Cable connectors, Electrical. Unimatic Corporation. 557,408, Apr. 8; Serial No. 614,524, published Jan. 8, 1952.
Combination television-radio-phonograph sets and parts thereof. Michaels & Co., Inc. 557,395, Apr. 8; Serial No. 614,003, published Jan. 1, 1952.
Controlling devices, employing electric circuit controlling switches. The Mercoid Corporation. 557,178, Apr. 8; Serial No. 585,243, published Jan. 22, 1952.
Electric device, Hand supported. J. McMillan. 557,266, Apr. 8; Serial No. 603,489, published Jan. 1, 1952.
Electrical circuit control elements. Ohmite Manufacturing Company. 557,302, Apr. 8; Serial No. 606,234, published Jan. 22, 1952.
Electrical induction metal heating and heat-treating apparatus and machines and parts thereof. The Ohio Crankshaft Company. 557,225, Apr. 8; Serial No. 596,434, published Jan. 1, 1952.
Electrical insulating materials and supplies and electrical insulators. Mica Insulator Company. 557,267–8, Apr. 8; Serial Nos. 603,535–6, published Dec. 25, 1951.
Heaters, Electric space. Florence Stove Company. 557,402, Apr. 8; Serial No. 614,247, published Dec. 18, 1951.
Heaters, Electrical immersion water. The Ambory Corporation. 557,311, Apr. 8; Serial No. 606,742, published Jan. 1, 1952.
Lamps, Electric. Ruskin Manufacturing Company. 557,312, Apr. 8; Serial No. 606,900, published Jan. 1, 1952.
Lamps, Electric, lighting fixtures, chandeliers, etc. W. & J. Sloane. 557,174, Apr. 8; Serial No. 582,058, published Jan. 22, 1952.
Lamps, Incandescent and fluorescent. Duro-Test Corporation. 557,393, Apr. 8; Serial No. 613,953, published Jan. 8, 1952.
Lampshades, Electric. Imperial Chemical Industries Limited. 557,345, Apr. 8; Serial No. 611,180, published Dec. 18, 1951.
Lamp shades primarily intended for electrical lamps. Rembrandt Lamp Corporation. 557,240, Apr. 8; Serial No. 599,588, published Jan. 8, 1952.
Light fixture, Ultra violet. Roy C. Stove & Company. 557,145–6, Apr. 8; Serial Nos. 572,348–9, published Jan. 1, 1952.
Motors, Electrical. Western Clock Company. 290,590, Jan. 12, 1932. Republished Apr. 8.
Motors, Electrical. Western Clock Company. 290,591–2, Jan. 12, 1932. Republished Apr. 8.
Motors, Electrical. Western Clock Company. 290,594, Jan. 12, 1932. Republished Apr. 8.
Projection lamps, Electric, electric rectifiers, and parts thereof. The Strong Electric Corporation. 557,176, Apr. 8; Serial No. 583,560, published Jan. 22, 1952.
Ranges and stoves, Electric. The Tappan Stove Company. 557,434, Apr. 8; Serial No. 597,985.
Separators or insulators used in storage batteries. Willard Storage Battery Company. 557,404, Apr. 8; Serial No. 614,325, published Dec. 18, 1951.
Shielding enclosures. Ace Engineering & Machine Co., Inc. 557,297, Apr. 8; Serial No. 605,776, published Jan. 8, 1952.
Spark-plugs. American Electric Products Corp. 557,171, Apr. 8; Serial No. 580,866, published Jan. 1, 1952.
Spring driven gongs. B & B Engineering Corporation. 557,391, Apr. 8; Serial No. 613,895, published Jan. 8, 1952.
Switches, plates, receptacles, and connecting devices for electrical wiring devices. The Arrow-Hart & Hegeman Electric Company. 294,317, renewed May 24, 1952. O. G. Apr. 8.
Telephonic and telegraphic apparatus and parts thereof, etc. Canadian Benaudi Company Limited. 557,295, Apr. 8; Serial No. 605,702, published Jan. 1, 1952.
Television and radio antenna and aerials, etc. S. Epstein. 557,300, Apr. 8; Serial No. 606,138, published Jan. 8, 1952.
Television receiving sets. Scott Radio Laboratories, Inc. 557,313, Apr. 8; Serial No. 607,199, published Jan. 22, 1952.

CLASS 22

Dolls. Ideal Novelty & Toy Co. 295,032, renewed June 14, 1952. O. G. Apr. 8.
Dolls. Sirac, Inc. 557,232, Apr. 8; Serial No. 597,631, published Dec. 25, 1951.
Fishing reel, Hand-held. The Handicast Company. 557,150, Apr. 8; Serial No. 573,770, published Jan. 22, 1952.
Fishing tackle. Stream-Ese, Inc. 557,235, Apr. 8; Serial No. 598,439, published Jan. 22, 1952.
Game. W. R. Hall, H. C. Berning, and H. R. Collins. 557,217, Apr. 8; Serial No. 594,539, published Jan. 15, 1952.
Game apparatus, Coin-controlled amusement. Exhibit Supply Company. 557,252, Apr. 8; Serial No. 601,892, published Dec. 25, 1951.
Game, Parlor. The Charlestan Manufacturing Company. 557,214, Apr. 8; Serial No. 598,785, published Dec. 25, 1951.
Games, Drawing, and toy telephones. Precision Specialties, Inc. 557,097, Apr. 8; Serial No. 498,543, published Jan. 1, 1952.
Holster and gun set—as a toy item. David Guss & Company. 557,285, Apr. 8; Serial No. 604,633, published Jan. 1, 1952.
Marbles. Master Marble Company. 290,066, renewed Dec. 22, 1951. O. G. Apr. 8.
Merry-go-round. M. G. McKee. 557,236, Apr. 8; Serial No. 598,919, published Jan. 15, 1952.
Playing cards. United Cigar-Whelan Stores Corporation. 557,430, Apr. 8; Serial No. 515,003.
Toy cradle. American Metal Specialties Corporation. 557,440, Apr. 8; Serial No. 613,753.
Toy holsters. Delira Corporation. 557,299, Apr. 8; Serial No. 605,944, published Jan. 15, 1952.
Toy, Wheeled. D. Sebel and Company Limited. 557,144, Apr. 8; Serial No. 568,673, published Dec. 25, 1951.
Toys, Paper. Phillips Publishers, Inc. 557,205, Apr. 8; Serial No. 591,798, published Dec. 11, 1951.

CLASS 23

Automotive equipment. Koochook Co., Inc. 557,223, Apr. 8; Serial No. 595,841, published Jan. 1, 1952.

Axes, hatchets, butcher knives, etc. Norvell-Shapleigh Hardware Company. 86,499, re-renewed May 7, 1952. O. G. Apr. 8.
Conveyors, Flight. Hapman Conveyors, Inc. 557,210, Apr. 8; Serial No. 592,425, published Nov. 6, 1951.
Hand powered expanding tools. K. O. Duncan. 557,432, Apr. 8; Serial No. 575,395.
Internal combustion engines. Atlas Imperial Diesel Engine Co. 294,189, renewed May 24, 1952. O. G. Apr. 8.
Mechanically operated winches. Gar Wood Industries, Inc. 557,431, Apr. 8; Serial No. 571,208.
Pumps, Motor. Ingersoll-Rand Company. 294,183, renewed May 24, 1952. O. G. Apr. 8.
Razor blades. G. C. Mitchell, Sr. 557,369, Apr. 8; Serial No. 612,464, published Jan. 1, 1952.
Razor blades. Purple Blade Corporation. 557,117, Apr. 8; Serial No. 537,359, published Dec. 18, 1951.
Razors and shears, All manner and kinds or barbers'. Bresduck, Inc. 369,417, July 25, 1939. Republished Apr. 8.
Razors, scissors, shears, etc. Peariduck, Inc. 438,271, Apr. 13, 1948. Republished Apr. 8.
Razors, shears, scissors, etc., All manner and kinds of. Bresduck, Inc. 337,575, Aug. 11, 1936. Republished Apr. 8.
Razors, shears, scissors, etc., All manner and kinds of. Bresduck, Inc. 343,665, Mar. 2, 1937. Republished Apr. 8.
Tool, Combination hand. H. K. Porter, Inc. 557,437, Apr. 8; Serial No. 603,857.
Tool holders. American Die & Tool Co., Inc. 557,283, Apr. 8; Serial No. 604,414, published Nov. 6, 1951.
Tractors. Leland Detroit Manufacturing Company. 557,435, Apr. 8; Serial No. 602,266.
Vacuum-cleaners. The Premier Vacuum Cleaner Co. 85,766, re-renewed Mar. 12, 1952. O. G. Apr. 8.
Valve operating units, Hydraulic. H. K. Porter Company, Inc. 557,151, Apr. 8; Serial No. 573,893, published Dec. 25, 1951.
Woodworking machinery and tools therefor. Yates-American Machine Company. 557,296, Apr. 8; Serial No. 605,773, published Dec. 18, 1951.

CLASS 24

Ironing machines. Barlow & Seelig Mfg. Co. 368,725, June 27, 1939. Republished Apr. 8.
Laundry equipment. Speed-Flex, Inc. 557,206, Apr. 8; Serial No. 591,809, published Jan. 15, 1952.
Laundry washing machines, laundry wringers and water extraction devices, etc. Barlow & Seelig Mfg. Co. 353,190, Dec. 28, 1937. Republished Apr. 8.
Rack for supporting paper garment bags. G. H. Bishop Company. 557,303, Apr. 8; Serial No. 606,258, published Jan. 15, 1952.

CLASS 26

Temperature and humidity indicating instruments. Bendix Aviation Corporation. 557,442, Apr. 8; Serial No. 619,864.

CLASS 32

Mattresses, Pneumatic. Hodgman Rubber Company. 293,657, renewed May 3, 1952. O. G. Apr. 8.

CLASS 34

Air conditioning units, Household. C. A. Navlen. 557,294, Apr. 8; Serial No. 605,672, published Jan. 8, 1952.
Baffle-equipped heat equalizing apparatus. Chambers Corporation. 557,198, Apr. 8; Serial No. 589,767, published Jan. 15, 1952.
Coal, kerosene, crude oil, and gas-fired space heaters, radiant space heaters, etc. The Cussins and Fearn Company. 557,129, Apr. 8; Serial No. 551,865, published Jan. 8, 1952.
Draft regulator, Automatic. Motor Wheel Corporation. 557,132, Apr. 8; Serial No. 555,290, published Jan. 15, 1952.
Gas burner valves. Automatic Range Co., Inc. 557,138, Apr. 8; Serial No. 563,102, published Jan. 15, 1952.
Igniters emitting sparks which ignite gas. Oesterreichische Knopf und Metallwarenfabrik J. Meister & Co. 557,274, Apr. 8; Serial No. 604,021, published Jan. 8, 1952.
Impregnated graphite plate heaters and tube and shell heat exchangers. General Ceramics & Steatite Corp. 557,167, Apr. 8; Serial No. 578,787, published Jan. 15, 1952.
Oil burners, oil burning stoves, and parts thereof. Reliance Products Corporation. 557,131, Apr. 8; Serial No. 554,415, published Jan. 8, 1952.

CLASS 35

Belting, Machine. Lewis & Tylor Limited. 557,159, Apr. 8; Serial No. 576,975, published Jan. 15, 1952.
Inner tubes for pneumatic tires. Robbins Tire & Rubber Company, Inc. 557,371, Apr. 8; Serial No. 612,508, published Jan. 8, 1952.
Packing materials. Hanover Cordage Company Incorporated. 557,327, Apr. 8; Serial No. 609,797, published Jan. 8, 1952.
Piston rings. Wilkening Manufacturing Company. 557,237, Apr. 8; Serial No. 599,043, published Jan. 8, 1952.
Vehicle-tires, Elastic. The Goodyear Tire & Rubber Company. 86,137, re-renewed Apr. 16, 1952. O. G. Apr. 8.

CLASS 36

Phonograph needles, Metal. Pfanstiehl Chemical Company. 557,436, Apr. 8; Serial No. 602,626.

CLASS 37

Paper, Writing and envelopes. The Fair. 372,446, Oct. 31, 1939. Republished Apr. 8.

CLASS 38

Bibles. National Publishing Company. 557,256, Apr. 8; Serial No. 602,210, published Jan. 1, 1952.
Books. Nelson Doubleday, Inc. 557,149, Apr. 8; Serial No. 572,557, published Jan. 1, 1952.
Books. Penguin Books, Inc. 557,412, Apr. 8; Serial No. 615,020, published Jan. 8, 1952.
Books and pamphlets, Series of children's educational. Scott, Foresman and Company. 557,284, Apr. 8; Serial No. 604,551, published Jan. 1, 1952.
Books, magazines, periodicals and brochures. Claridge Publishing Corp. 557,333, Apr. 8; Serial No. 610,201, published Jan. 15, 1952.
Books, Sales promotion coupon. P. A. Schaefer. 557,415, Apr. 8; Serial No. 615,796, published Jan. 22, 1952.
Calendars, Printed wall, printed greeting cards, printed greeting folders, etc. The Gerlach-Barklow Co. 557,332, Apr. 8; Serial No. 610,173, published Jan. 15, 1952.
Cartoons or comic strips, Series of. The Hearst Corporation. 557,353–4, Apr. 8; Serial No. 611,697–8, published Jan. 1, 1952.
Charts, Vocabulary. W. F. Bealer. 557,191, Apr. 8; Serial No. 588,930, published Jan. 1, 1952.
Directories and rosters, Trucking carrier. Kallis and Kallis. 557,418, Apr. 8; Serial No. 615,935, published Jan. 22, 1952.
Greeting cards and printed greeting folders. Norcross, Inc. 557,263, Apr. 8; Serial No. 603,247, published Jan. 1, 1952.
House organ. Douglas Fir Plywood Association. 557,298, Apr. 8; Serial No. 605,848, published Jan. 8, 1952.
Labels, Lithographed. Schwabacher-Frey Company. 557,376, Apr. 8; Serial No. 612,706, published Jan. 15, 1952.
Labels, Printed. Tompkins' Label Service. 557,319, Apr. 8; Serial No. 608,774, published Jan. 22, 1952.
Leaflets. De Walt Inc. 557,410, Apr. 8; Serial No. 614,689, published Jan. 8, 1952.
Literature, Educational. J. Luchs. 557,378, Apr. 8; Serial No. 612,810, published Jan. 15, 1952.
Magazine. I. C. Publishing Co., Inc. 557,385, Apr. 8; Serial No. 613,331, published Jan. 1, 1952.
Magazine. The International Legal Fraternity of Phi Delta Phi. 557,290, Apr. 8; Serial No. 605,307, published Jan. 15, 1952.
Magazine. B. S. Keller. 557,364, Apr. 8; Serial No. 612,332, published Jan. 15, 1952.
Magazine, Monthly. National Guardsman Publishing Company. 557,113, Apr. 8; Serial No. 533,351, published Jan. 22, 1952.
Magazine, Monthly. Vive Publishing Co. 557,397, Apr. 8; Serial No. 614,112, published Jan. 1, 1952.
Newspaper column. J. C. Moffitt. 557,407, Apr. 8; Serial No. 614,452, published Jan. 1, 1952.
Newspaper column. Northwest Publications, Inc. 557,308, Apr. 8; Serial No. 606,628, published Jan. 22, 1952.
Newspaper section or department. The Hearst Corporation. 557,416, Apr. 8; Serial No. 615,835, published Jan. 22, 1952.
Periodical. The Emil Greiner Company. 557,342, Apr. 8; Serial No. 610,967, published Jan. 1, 1952.
Periodical. Youth Associates Company. 557,305, Apr. 8; Serial No. 606,402, published Jan. 22, 1952.
Periodical, Sales. Merck & Co., Inc. 557,363, Apr. 8; Serial No. 612,212, published Jan. 22, 1952.
Periodical, Weekly. The Prairie Farmer Publishing Company. 557,269, Apr. 8; Serial No. 603,544, published Jan. 22, 1952.
Periodicals. American Camping Association, Inc. 557,227, Apr. 8; Serial No. 596,470, published Jan. 1, 1952.
Periodicals. Talon, Inc. 557,289, Apr. 8; Serial No. 604,751, published Jan. 1, 1952.
Periodicals, Printed. United Parcel Service of America, Inc. 557,413, Apr. 8; Serial No. 615,586, published Jan. 22, 1952.
Pictorial advertising signs. W. M. Harris. 557,264, Apr. 8; Serial No. 603,367, published Jan. 1, 1952.
Post cards, Colored picture. Kennelly-Lumitone Co. Inc. 557,348, Apr. 8; Serial No. 611,524, published Jan. 22, 1952.
Prepared advertising. Automotive Advertisers Council. 557,306, Apr. 8; Serial No. 606,409, published Oct. 2, 1951.
Prepared advertising. Mercury Advertising Agency, Inc. 557,200, Apr. 8; Serial No. 590,610, published Jan. 8, 1952.
Printed display cards. R. Comart. 439,352, June 22, 1948. Republished Apr. 8.
Prints, Photographic. A. Foster. 557,409, Apr. 8; Serial No. 614,620, published Jan. 8, 1952.

Prints, Photographic. H. B. Robinson. 557,230, Apr. 8; Serial No. 597,296, published Jan. 15, 1952.
Publication. McGraw-Hill Book Company, Inc. 557,288, Apr. 8; Serial No. 604,731, published Jan. 22, 1952.
Publication. Phi Alpha Theta. 557,280, Apr. 8; Serial No. 604,383, published Jan. 8, 1952.
Publication, Monthly. The Borden Company. 557,379, Apr. 8; Serial No. 612,892, published Jan. 1, 1952.
Publication, Periodical. Motor Cargo, Inc. 557,414, Apr. 8; Serial No. 615,716, published Jan. 22, 1952.
Publication, Quarterly. Stoody Company. 557,381, Apr. 8; Serial No. 613,030, published Jan. 15, 1952.
Publication, Trade. Esquire Sportswear Co. 557,405, Apr. 8; Serial No. 614,403, published Jan. 1, 1952.
Publications, prints and plans, Periodical. Rockwell Manufacturing Company. 557,349, Apr. 8; Serial No. 611,543, published Jan. 22, 1952.
Published analyses. Small Town & Farm Markets Institute, Incorporated. 557,213, Apr. 8; Serial No. 593,691, published Jan. 15, 1952.
Section of a daily newspaper. Dow Jones & Company, Inc. 557,133, Apr. 8; Serial No. 555,390, published Jan. 15, 1952.

CLASS 39

Bathing suits, Men's, women's, and children's. J. C. Penney Company. 291,655, renewed Feb. 23, 1952. O. G. Apr. 8.
Blouses, Women's, misses', and children's. L. Brod Company. 557,386, Apr. 8; Serial No. 613,397, published Jan. 15, 1952.
Boots and shoes, Leather. Regal Shoe Company, Inc. 85,003, re-renewed Jan. 16, 1952. O. G. Apr. 8.
Clothing. Seg-Mar, Inc. 557,389, Apr. 8; Serial No. 613,654, published Jan. 8, 1952.
Clothing, Men's and boys'. People's Outfitting Company. 292,414, renewed Mar. 15, 1952. O. G. Apr. 8.
Clothing, Men's and boys' outer. N. W. Buyers & Jobbers, Incorporated. 294,404, renewed May 24, 1952. O. G. Apr. 8.
Dresses, housecoats, brunch coats and pinafores, Ladies', misess', and teen age girls' cotton. Cotton City Wash Frocks, Inc. 557,377, Apr. 8; Serial No. 612,732, published Jan. 15, 1952.
Footwear. Gallenkamp Stores Co. 290,495, Jan. 5, 1932. Republished Apr. 8.
Gloves, Household and industrial. The Pioneer Rubber Company. 557,358, Apr. 8; Serial No. 612,033, published Jan. 15, 1952.
Gloves, Ladies' and misses'. Dawnelle, Inc. 557,383, Apr. 8; Serial No. 613,122, published Jan. 15, 1952.
Hair nets. G. H. S. Corporation. 557,220, Apr. 8; Serial No. 595,207, published Jan. 15, 1952.
Hat bodies. Accurate Millinery Co. 557,185, Apr. 8; Serial No. 587,453, published Jan. 2, 1951.
Hosiery. Massachusetts Knitting Mills. 294,547, renewed May 31, 1952. O. G. Apr. 8.
Hosiery. Murphy, Brill & Sahner, Inc. 557,315, Apr. 8; Serial No. 607,443, published Jan. 15, 1952.
Hosiery. Willis Hosiery Mills Inc. 557,356, Apr. 8; Serial No. 611,927, published Jan. 15, 1952.
Hosiery, Women's. Barbara Jean Hosiery Company. 557,390, Apr. 8; Serial No. 613,757, published Jan. 8, 1952.
Hosiery, Women's. Gotham Hosiery Company, Inc. 557,304, Apr. 8; Serial No. 606,292, published Jan. 8, 1952.
Pajamas, Men's, men's underwear, men's dress and negligee shirts, etc. Knothe Brothers Co. Inc. 294,727, renewed June 7, 1952. O. G. Apr. 8.
Pajamas, pajama coats, beach coats, etc., Men's, women's, and children's. Kaylon Incorporated. 557,121, Apr. 8; Serial No. 543,196, published July 17, 1951.
Raincoats, jackets, gloves, etc., Boys' and men's. Hickok Manufacturing Co. Inc. 557,328, Apr. 8; Serial No. 609,798, published Jan. 8, 1952.
Shirts, Infants' and children's, two piece undergarments, union suits, etc. Brown Durrell Co. 557,118, Apr. 8; Serial No. 539,022, published Jan. 15, 1952.
Shirts, Men's. New Era Shirt Company. 553,339, Jan. 15, 1952. Corrected. O. G. Apr. 8.
Shirts, Men's, and women's blouses. E. J. Michel. 557,247, Apr. 8; Serial No. 600,301, published Jan. 15, 1952.
Shirts, Men's outer. American Bleached Goods Company, Inc. 557,196, Apr. 8; Serial No. 589,695, published Dec. 11, 1951.
Shoes. Gallenkamp Stores Co. 289,642, Dec. 1, 1931. Republished Apr. 8.
Shoes, Baby. Monarch Shoe Co., Inc. 287,541, renewed Sept. 29, 1951. O. G. Apr. 8.
Spats, Stocking protecting. M. Z. Eves and Company. 557,162, Apr. 8; Serial No. 577,529, published June 6, 1950.
Stockings, and anklets, Women's and junior misses'. H. W. Curran. 557,137, Apr. 8; Serial No. 562,182, published Aug. 15, 1950.
Suits and topcoats, Men's. Loevenhart & Company, Inc. 557,179, Apr. 8; Serial No. 585,336, published Aug. 29, 1950.
Underclothing, Women's. The Warner Brothers Company. 292,655, renewed Mar. 22, 1952. O. G. Apr. 8.
Undergarments for women, misses, and children. D. Bickum. 290,409, renewed Jan. 5, 1952. O. G. Apr. 8.
Underwear and sleeping garments, Infants' and children's, infants' shirts and bands, etc. Minneapolis Knitting Works. 290,735, renewed Jan. 12, 1952. O. G. Apr. 8.
Underwear, pyjamas, dressing gowns, etc. Pasolds Limited. 557,202, Apr. 8; Serial No. 591,315, published Jan. 15, 1952.

CLASS 40

Beads, bias bindings, etc. Kresge Department Store Corporation. 294,035, renewed May 17, 1952. O. G. Apr. 8.
Lace and embroidery medallions, narrow lace trimmings, etc. La Emilia, Industris Textiles, S. R. L. 444,677, Apr. 8; Serial No. 508,293, published Nov. 27, 1951.

CLASS 42

Fabrics, Knitted, netted, and textile. The Warner Brothers Company. 293,101, renewed Apr. 12, 1952. O. G. Apr. 8.
Fabrics, Pile. J. B. Martin Company. 282,497, renewed Apr. 21, 1951. O. G. Apr. 8.
Fabrics, Pile. J. B. Martin Company. 284,146, renewed June 16, 1951. O. G. Apr. 8.

CLASS 43

Yarns, Woolen. N. V. Nederlandsche Wolspinnerij. 557,273, Apr. 8; Serial No. 603,977, published Jan. 15, 1952.
Yarns, Woolen and part-woolen. N. V. Nederlandsche Wolspinnerij. 557,272, Apr. 8; Serial No. 603,975, published Jan. 15, 1952.

CLASS 44

"Beautifier" vaporizer for treatment of the skin. N. D'Alesandro. 557,181, Apr. 8; Serial No. 586,627, published Jan. 1, 1952.
Dental flasking plaster. Modern Materials Manufacturing Co. 557,153, Apr. 8; Serial No. 574, 370, published Jan. 1, 1952.
Ear cleaning wire pick. J. M. Hall. 557,222, Apr. 8; Serial No. 595,837, published Dec. 25, 1951.
Mechanical equipment in the nature of a lift for raising, lowering and turning incapacitated people. Invalilft, Inc. 557,218, Apr. 8; Serial No. 594,645, published Dec. 25, 1951.
Teething-ring appliances for infants. M. E. and W. H. Storey. 557,216, Apr. 8; Serial No. 594,241, published Jan. 1, 1952.
Toothpicks. The Forster Manufacturing Company, Inc. 557,102, Apr. 8; Serial No. 516,476, published Jan. 1, 1952.

CLASS 46

Alimentary pastes. C. F. Mueller Company. 557,101, Apr. 8; Serial No. 515,125, published Jan. 8, 1952.
Apple juice. Charbonneou Packing Corporation. 557,350, Apr. 8; Serial No. 611,560, published Jan. 15, 1952.
Bacon, canned beef stew, souse, etc. Hygrade Food Products Corporation. 557,359, Apr. 8; Serial No. 612,056, published Dec. 11, 1951.
Bakery products. A. U. Terrabusi. 268,630, Mar. 18, 1930. Republished Apr. 8.
Batter, Pancake and waffle. C. S. Cooke. 557,195, Apr. 8; Serial No. 589,305, published Jan. 15, 1952.
Beef, Carcass; carcass veal; smoked beef loaf; etc. American Stores Company. 557,261, Apr. 8; Serial No. 603,219, published Dec. 25, 1951.
Berries, Fresh, fresh deciduous fruits, fresh vegetables, and dried fruits. P. M. Resetar. 293,812, renewed May 3, 1952. O. G. Apr. 8.
Bread. Davidson Baking Co. 557,335, Apr. 8; Serial No. 610,250, published Jan. 22, 1952.
Butter, milk powder, cheddar cheese, etc. Maple Island Farm, Inc. 557,161, Apr. 8; Serial No. 577,396, published Dec. 11, 1951.
Cabbage, Bottled and canned red, and sweet pickled beets. Lohmann Foods Corp. 557,323, Apr. 8; Serial No. 609,487, published Jan. 15, 1952.
Candies. Steven Candy Kitchens, Inc. 557,387, Apr. 8; Serial No. 613,428, published Dec. 11, 1951.
Candies and nut meats. Shari Candies, Inc. 557,106, Apr. 8; Serial No. 521,261, published Apr. 3, 1951.
Candies, pastries and confections. The O. P. Baur Confectionery Company. 557,128, Apr. 8; Serial No. 550,889, published Jan. 15, 1952.
Candy. Euclid Candy Company of California, Inc. 557,115, Apr. 8; Serial No. 537,301, published Nov. 6, 1951.
Candy. Euclid Candy Company of California, Inc. 557,116, Apr. 8; Serial No. 537,303, published Nov. 6, 1951.
Candy. Marz Laboratories Limited. 557,142, Apr. 8; Serial No. 563,945, published Dec. 4, 1951.
Candy. Norris Inc. 557,201, Apr. 8; Serial No. 590,826, published Nov. 13, 1951.
Candy. United Drug Co. 84,889, re-renewed Jan. 9, 1952. O. G. Apr. 8.
Candy, Maple sugar. T. Noonan Sons Company. 557,143, Apr. 8; Serial No. 564,050, published Jan. 22, 1952.

Canned citrus food products. Bordo Products Company. 557,362, Apr. 8; Serial No. 612,118, Jan. 15, 1952.
Canned corned beef, canned corned beef hash, canned roast beef, etc. Corporacion Argentina de Productores de Carnes. 577,281–2, Apr. 8; Serial Nos. 604,409–10, published Jan. 15, 1952.
Canned corned beef, canned corned beef hash, canned roast beef, etc. Corporacion Argentina de Productores de Carnes. 557,326, Apr. 8; Serial No. 609,676, published Dec. 11, 1951.
Canned fish. Mondial Company, Inc. 557,215, Apr. 8; Serial No. 594,136, published Jan. 15, 1952.
Canned fish and canned shellfish. Parrott & Co. 557,331, Apr. 8; Serial No. 610,020, published Jan. 15, 1952.
Canned food products. George E. Abbott & Co. 557,441, Apr. 8; Serial No. 618,137.
Canned fruits. J. E. Rahal. 284,818, July 7, 1931. Republished Apr. 8.
Canned fruits, canned vegetables, canned fruit juices, etc. F. M. Ball & Company. 557,119, Apr. 8; Serial No. 540,627, published Jan. 15, 1952.
Canned peas, corn, tomatoes, and green beans. Chas. L. Mull & Sons. 557,438, Apr. 8; Serial No. 603,891.
Canned salmon. Independent Salmon Canneries, Inc. 557,301, Apr. 8; Serial No. 606,224, published Jan. 8, 1952.
Canned vegetables, canned fruit, canned fish, etc. Greenspan Brothers Company. 294,046, renewed May 17, 1952. O. G. Apr. 8.
Canned vegetables, canned fruits. Parkview Markets, Inc. 557,229, Apr. 8; Serial No. 597,035, published Jan. 8, 1952.
Cereal, Cocoa coated breakfast. Little Crow Milling Co., Inc. 557,139, Apr. 8; Serial No. 563,350, published Jan. 22, 1952.
Cheese. Etablissements Godefroy, Société Anonyme. 557,322, Apr. 8; Serial No. 609,082, published Jan. 22, 1952.
Cheese, condensed full-cream, evaporated and unsweetened milk, etc. P. & S. Plum, Ltd. 320,642, Jan. 1, 1935. Republished Apr. 8.
Cheese, Roquefort. B. M. Douglas. 290,655, renewed Jan. 12, 1952. O. G. Apr. 8.
Chewing gum. Frank H. Fleer Corporation. 290,906, renewed Jan. 19, 1952. O. G. Apr. 8.
Chickens, Dressed young, dressed fowl, and dressed young Tom turkeys. The Rath Packing Company. 557,250, Apr. 8; Serial No. 600,972, published Jan. 15, 1952.
Chocolates, and hard candy. Leader Novelty Candy Co., Inc. 557,172, Apr. 8; Serial No. 580,995, published Jan. 8, 1952.
Coffee. Dwinell-Wright Company. 85,956, re-renewed Apr. 2, 1952. O. G. Apr. 8.
Coffee, Green. Steinwender, Stoffregen & Co. 557,420, Apr. 8; Serial No. 616,252, published Jan. 15, 1952.
Cotton-seed oil. Kentucky Refining Co. 84,972, re-renewed Jan. 16, 1952. O. G. Apr. 8.
Edible oil. The Griffith Laboratories, Inc. 557,105, Apr. 8; Serial No. 520,698, published Nov. 20, 1951.
Feed for livestock. Albers Milling Company. 557,339, Apr. 8; Serial No. 610,816, published Jan. 15, 1952.
Feed, Livestock. Traders Oil Mill Company. 557,194, Apr. 8; Serial No. 589,280, published Dec. 25, 1951.
Feed, Poultry, scratch feed, horse feed, etc. Maritime Milling Co. Inc. 557,111, Apr. 8; Serial No. 529,280, published Jan. 8, 1952.
Fish, Fresh frozen, and fresh frozen shrimp. Eastern Banana Corp. 557,375, Apr. 8; Serial No. 612,599, published Jan. 15, 1952.
Flour, Rye. Van Dusen Harrington Co. 557,124, Apr. 8; Serial No. 545,663, published Jan. 15, 1952.
Flour, Soft winter wheat pastry. Beloit Milling Company. 557,141, Apr. 8; Serial No. 563,893, published Jan. 8, 1952.
Flour, Wheat. The Colorado Milling & Elevator Co. 557,134, Apr. 8; Serial No. 556,320, published Nov. 20, 1951.
Flour, Wheat. Dixie-Portland Flour Co. 557,140, Apr. 8; Serial No. 563,606, published Jan. 22, 1952.
Flour, Wheat. Flour Mills of America, Inc. 557,130, Apr. 8; Serial No. 552,554, published Dec. 11, 1951.
Flour, Wheat. Minkota Milling Company. 21,940, Nov. 8, 1892. Republished Apr. 8.
Flour, Wheat. E. A. Rincon. 557,277, Apr. 8; Serial No. 604,116, published Jan. 15, 1952.
Flour, Wheat, and poultry and stock feeds. Kerr Gifford & Co., Inc. 557,163, Apr. 8; Serial No. 578,028, published Nov. 20, 1951.
Fruit preserves, jellies, marmalade, etc. Griggs, Cooper & Company. 557,325, Apr. 8; Serial No. 609,647, published Jan. 15, 1952.
Fruits, Fresh citrus. Garden Grove Citrus Association. 557,135, Apr. 8; Serial No. 559,596, published Nov. 20, 1951.
Fruits, Fresh deciduous. California Fruit Exchange. 557,180, Apr. 8; Serial No. 585,699, published Jan. 1, 1952.
Fruits, Fresh deciduous. Mayflower Fruit Association. 232,032, Aug. 30, 1927. Republished Apr. 8.
Fruits, Fresh deciduous. Mayflower Fruit Association. 233,430, Sept. 27, 1927. Republished Apr. 8.
Fruits, Fresh, dried deciduous fruits, frozen cooked deciduous fruits, etc. James Mills Orchards Company. 557,243, Apr. 8; Serial No. 600,065, published Jan. 15, 1952.
Graham wafers. The Maryland Biscuit Company. 557,109, Apr. 8; Serial No. 525,900, published Jan. 15, 1952.
Grapes, Fresh. Mayflower Fruit Association. 196,131, Mar. 10, 1925. Republished Apr. 8.
Ham, pork shoulder picnic, pork shoulder butt, etc. The Rath Packing Company. 557,278, Apr. 8; Serial No. 604,228, published Jan. 15, 1952.
Ice cream cones. Maryland Baking Company, Inc. 557,165, Apr. 8; Serial No. 578,608, published Jan. 15, 1952.
Ice cream cones, Empty. S & S Cone Corporation. 557,182, Apr. 8; Serial No. 587,134, published Jan. 8, 1952.
Liquid lipolytic and proteolytic enzyme compositions for developing flavor and modifying the body of cheese. Dairyland Food Laboratories, Inc. 557,341, Apr. 8; Serial No. 610,956, published Jan. 15, 1952.
Meat and meat products. The Sucher Packing Company. 557,320, Apr. 8; Serial No. 608,901, published Jan. 22, 1952.
Milk food product, Liquid. M & R Dietetic Laboratories, Inc. 557,337, Apr. 8; Serial No. 610,326, published Dec. 25, 1951.
Milk, Powdered. Cia. Anma. Toddy Venezolana. 557,136, Apr. 8; Serial No. 561,883, published Jan. 8, 1952.
Milk, Whole, skim milk, buttermilk, etc. National Dairy Products Corporation. 557,254, Apr. 8; Serial No. 601,995, published Dec. 11, 1951.
Mushrooms, Fresh. Butler County Mushroom Farm, Inc. 557,271, Apr. 8; Serial No. 603,658, published Jan. 15, 1952.
Mustards, Prepared, prepared horseradish. The William Edwards Company. 557,096, Apr. 8; Serial No. 493,177, published Jan. 15, 1952.
Oleomargarine. Armour and Company. 557,193, Apr. 8; Serial No. 589,240, published Jan. 15, 1952.
Oleomargarine. Osceola Foods, Inc. 557,187, Apr. 8; Serial No. 587,742, published Nov. 13, 1951.
Olive oil. Balbo Oil Corporation. 557,100, Apr. 8; Serial No. 508,886, published Jan. 8, 1952.
Olives, sandwich spread, salad dressing, etc. Jewett & Sherman Co. 557,125, Apr. 8; Serial No. 545,993, published Nov. 13, 1951.
Oysters, Fresh. The Atlantic Packing Co. 557,207, Apr. 8; Serial No. 591,829, published Jan. 15, 1952.
Oysters, Fresh, frozen, canned and processed, and oyster stew clams, fish, etc. Haines Oyster Company. 557,286, Apr. 8; Serial No. 604,634, published Dec. 11, 1951.
Packing house products. Cleveland Provision Company. 557,099, Apr. 8; Serial No. 508,209, published Jan. 15, 1952.
Pears, Fresh. D. W. Leary. 557,120, Apr. 8; Serial No. 542,852, published Dec. 18, 1951.
Pork, Barrelled. Armour and Company. 557,110, Apr. 8; Serial No. 526,915, published Jan. 22, 1952.
Potato chips. Greeley Spud Chip Company. 557,107, Apr. 8; Serial No. 521,517, published Oct. 9, 1951.
Potato chips, cheese flavored salted popcorn, fresh fried popcorn, etc. Hesmer, Inc. 557,203, Apr. 8; Serial No. 591,572, published Jan. 15, 1952.
Potatoes, French fried. Tomic Taters. 557,186, Apr. 8; Serial No. 587,511, published Jan. 15, 1952.
Potatoes, Fresh. Pacific Gamble Robinson Company. 557,287, Apr. 8; Serial No. 604,703, published Jan. 15, 1952.
Raisins, Cluster. Perry H. Chipurnoi, Inc. 557,108, Apr. 8; Serial No. 523,514, published July 17, 1951.
Rice. L. A. Black, Rice Miller. 557,275, Apr. 8; Serial No. 604,065, published Jan. 15, 1952.
Rice. E. E. Edmundson, Jr. 557,373, Apr. 8; Serial No. 612,534, published Jan. 15, 1952.
Salad dressing, mayonnaise dressing, pancake mix, etc. Wass Food Products Co. 557,334, Apr. 8; Serial No. 610,242, published Jan. 15, 1952.
Salad oil, Cottonseed, and shortening. Cotton Products Company, Inc. 368,868, July 4, 1939. Republished Apr. 8.
Sausage, ham, bacon, lard and cheese. Hygrade Food Products Corporation. 557,126, Apr. 8; Serial No. 546,302, published Jan. 8, 1952.
Spareribs, Prepared and barbecued. H. J. Hirschenfeld. 341,567, Dec. 15, 1936. Republished Apr. 8.
Spices, Mixed. Mexiburger Company. 557,104, Apr. 8; Serial No. 519,480, published Nov. 13, 1951.
Syrup, Non-crystallizable corn sugar. Clinton Foods Inc. 557,257, Apr. 8; Serial No. 602,436, published Jan. 8, 1952.
Tamales, Turkey, chicken tamales, and cheese tamales, etc. Chet's Famous Foods. 557,147, Apr. 8; Serial No. 572,550, published Jan. 15, 1952.
Tea. H. S. Fromme & Co., Inc. 557,231, Apr. 8; Serial No. 597,332, published Jan. 15, 1952.
Tea and coffee. G. E. Barbour Company Limited. 557,352, Apr. 8; Serial No. 611,631, published Jan. 15, 1952.

Vegetables, Dried, dried apricots, mince meat, etc. First National Stores, Inc. 557,127, Apr. 8; Serial No. 549,431, published Jan. 1, 1952.
Vegetables, Fresh, and fresh melons. J. L. Colyer. 557,148, Apr. 8; Serial No. 572,551, published Jan. 15, 1952.
Wheat product, Milled. Standard Milling Company. 385,128, Feb. 18, 1941. Republished Apr. 8.
Yams, Raw, whole. Dupuis Produce Company. 557,199, Apr. 8; Serial No. 589,960, published Jan. 8, 1952.

CLASS 51

Cosmetic. H. S. Grove. 291,579, renewed Feb. 23, 1952. O. G. Apr. 8.
Cosmetic preparations. L & L Beauty Products. 557,382, Apr. 8; Serial No. 613,076, published Jan. 1, 1952.
Cosmetics. S. M. Sargeant. 557,168, Apr. 8; Serial No. 579,218, published Sept. 19, 1950.
Face cream, Cleansing. M. W. Crewett. 557,169, Apr. 8; Serial No. 579,583, published Jan. 8, 1952.
Hair creams. Rilling Company. 557,211, Apr. 8; Serial No. 593,442, published Jan. 1, 1952.
Hair dressing. Marcia Pruitt Baumann & Son. 557,170, Apr. 8; Serial No. 580,118, published Jan. 1, 1952.
Hair dressing. The F. W. Fitch Company. 557,160, Apr. 8; Serial No. 577,179, published Jan. 8, 1952.
Home cold wave refill kit. Lee Pharmacal Co. 557,291, Apr. 8; Serial No. 605,312, published Jan. 1, 1952.
Lipsticks. Elizabeth Arden, Inc. 292,825, renewed Mar. 29, 1952. O. G. Apr. 8.
Lipsticks, face powder, hand lotion, etc. Consolidated Cosmetics. 557,155, Apr. 8; Serial No. 575,331, published Jan. 1, 1952.
Ointment used for promoting the growth of hair. Atsumori Tamenaga. 289,995, renewed Dec. 22, 1951. O. G. Apr. 8.
Perfume. Guy T. Gibson, Inc. 292,890, renewed Mar. 29, 1952. O. G. Apr. 8.
Vanishing cream, skin lotion, and hair gloss. A. McGinnis. 290,750, renewed Jan. 12, 1952. O. G. Apr. 8.

CLASS 52

Chemical to remove excess soot from furnaces, etc. The Chemical Testing Institute of America, Inc. 557,188, Apr. 8, 1952. Serial No. 588,080, published Jan. 15, 1952.
Cleaner, All purpose. Service Industries. 557,208, Apr. 8; Serial No. 592,166, published Dec. 25, 1951.
Cleaner, Hand. The Muench Laboratories. 557,190, Apr. 8; Serial No. 588,836, published Dec. 25, 1951.
Cleaner, Liquid dry. G. V. Willoughby. 557,279, Apr. 8; Serial No. 604,285, published Jan. 1, 1952.
Cleaner, Window, wax, French dry cleaner, etc. American Stores Company. 557,189, Apr. 8; Serial No. 588,623, published Dec. 25, 1951.
Cleaning preparation. Comb. C. F. Clothier. 557,346, Apr. 8; Serial No. 611,342, published Jan. 15, 1952.
Detergent. Allied Chemical & Dye Corporation. 557,241, Apr. 8; Serial No. 599,687, published Dec. 25, 1951.
Detergent compound, Synthetic. Wyandotte Chemicals Corporation. 557,184, Apr. 8; Serial No. 587,413, published Jan. 8, 1952.
Detergents, Synthetic. Allied Home Products Corporation. 557,112, Apr. 8; Serial No. 529,947, published Jan. 8, 1952.
Dishwashing compound, Machine. Virginia-Carolina Chemical Corporation. 557,340, Apr. 8; Serial No. 610,932, published Dec. 25, 1951.
Dry cleaning fluid. The Roessler & Hasslacher Chemical Company, Inc. 294,535, renewed May 31, 1952. O. G. Apr. 8.
Hand-cleaning paste, Water-less. Kalene Corporation. 557,255, Apr. 8; Serial No. 602,122, published Jan. 1, 1952.
Natural or synthetic aromatic chemicals and essential oils. Firmenich & Co. 557,253, Apr. 8; Serial No. 601,980, published Jan. 15, 1952.
Preparation used for cleaning and polishing bathtubs, etc. H. B. Meyer & Son. 557,212, Apr. 8; Serial No. 593,493, published Jan. 1, 1952.
Saponified cresol solution. Lysol, Incorporated. 294,693, renewed June 7, 1952. O. G. Apr. 8.
Shampoo. The Grove Laboratories, Inc. 557,270, Apr. 8; Serial No. 603,583, published Dec. 25, 1951.
Soap. Armour and Company. 557,122, Apr. 8; Serial No. 543,864, published Jan. 8, 1952.
Soap. Botany Mills, Inc. 557,244, Apr. 8; Serial No. 600,116, published Jan. 15, 1952.
Soap, Household, toilet soap, medicated soap, etc. Savonneries Lever. 557,098, Apr. 8; Serial No. 500,186, published Jan. 8, 1952.
Soap, Toilet. Manhattan Soap Company, Inc. 557,293, Apr. 8; Serial No. 605,598, published Dec. 25, 1951.
Soap, Toilet and laundry, automobile soap, etc. The Pure Oil Company. 291,123, renewed Jan. 26, 1952. O. G. Apr. 8.
Washing compound. Nocon Products Corporation. 557,248, Apr. 8; Serial No. 600,306, published Dec. 25, 1951.
Washing powder. Hylo Company, Inc. 557,219, Apr. 8; Serial No. 594,716, published Dec. 25, 1951.

CLASS 100

Serving of foods and beverages in restaurants. W. G. Chapman. 557,425, Apr. 8; Serial No. 608,590, published Jan. 15, 1952.

CLASS 101

Product demonstration, selling, and advertising services. N. A. Halladay. 557,421, Apr. 8; Serial No. 587,547, published Jan. 1, 1952.

CLASS 102

General real estate brokerage. L. D. De Marco. 557,423, Apr. 8; Serial No. 591,224, published Jan. 1, 1952.

CLASS 103

Construction services and construction engineering in the construction of dams, locks, etc. Winston Bros. Company. 557,422, Apr. 8; Serial No. 588,120, published Jan. 15, 1952.

CLASS 105

Leasing freight cars. General American Transportation Corporation. 557,427, Apr. 8; Serial No. 611,268, published Jan. 15, 1952.
Motor van transportation. H. W. Scramlin. 557,426, Apr. 8; Serial No. 609,884, published Jan. 15, 1952.

CLASS 106

Finishing of nylon and other woven or knit fabrics by applying an emulsified nylon finish coating thereon. Hans C. Bick, Inc. 557,443, Apr. 8; Serial No. 612,237.

CLASS 107

Teaching screen process printing by correspondence. Radio-Television Training School, Inc. 557,424, Apr. 8; Serial No. 607,141, published Jan. 15, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

American Zinc, Lead & Smelting Company, assignee: *See*— Calbeck, John H.
Calbeck, John H., Columbus, Ohio, assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo. Treating zinc oxides. Re. 23,475, Apr. 8.
French, Louis O., Milwaukee, Wis. Automatic fuel injector. Re. 23,476, Apr. 8.
Gevaert Photo-Producten N. V., assignee: *See*— Van Dormael, André E., and Van der Auwera.
Henry, Raymond, Moline, Ill. Pneumatic cotton harvester. Re. 23,477, Apr. 8.
Leland Stanford Junior University, The Board of Trustees of The, assignee: *See*— Varian, Russell H.
Van der Auwera, Laurent A.: *See*— Van Dormael, André E., and Van der Auwera.
Van Dormael, André E., Heverlee-Louvain, and L. A. Van der Auwera, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Producing antihalation photographic article. Re. 23,478, Apr. 8.
Varian, Russell H., Stanford Village, assignor to The Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif. Electrical translating system and method. Re. 23,479, Apr. 8.

LIST OF PLANT PATENTEES

Arnold-Fisher Company, assignee: *See*— Fisher, Esther G.
Fisher, Esther G., assignor to Arnold-Fisher Company, Woburn, Mass. Hybrid tea rose plant. 1,081, Apr. 8.

LIST OF DESIGN PATENTEES

Adler, Samuel E., and J. E. Vistain, Jr., Chicago, Ill. Record changer turntable unit. 166,371, Apr. 8.
Atlas Press Company, assignee: *See*— Cole, Clayton K.
Boots, William C., Rumford, R. I. Expansible chain for a wrist watch bracelet or the like. 166,372, Apr. 8.
Boots, William C., Rumford, R. I., assignor to Foster Metal Products Incorporated, Attleboro, Mass. Expansible bracelet. 166,373, Apr. 8.
Canonsburg Pottery Company, assignee: *See*— Slobodkin, Simon H.
Castorani, Francesco P., Exton, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 166,374, Apr. 8.
Chapman, John G.: *See*— Roumm, Milton P., Gehring, and Chapman.
Cole, Clayton K., assignor to Atlas Press Company, Kalamazoo, Mich. Lawn mower handle. 166,375, Apr. 8.
Curt, Carl L., Boulder, Colo. Holder for photographs or the like. 166,376, Apr. 8.
Curtis, Philip C., Scottsdale, Ariz. Table. 166,377, Apr. 8.
Daugull, Mary, Chicago, Ill. Drapery hanger. 166,378, Apr. 8.
De Cicco, John, Valley Stream, N. Y. Toy antiaircraft gun. 166,379, Apr. 8.
De Sá Cardoso, Carlos E., Lisbon, Portugal. Nongurgling demijohn. 166,380, Apr. 8.
Diebenkorn, Richard C., Atherton, assignor to Dohrmann Hotel Supply Co., San Francisco, Calif. Sundae glass. 166,381, Apr. 8.
Dohrmann Hotel Supply Co., assignee: *See*— Diebenkorn, Richard C.
F. F. F. Textiles, Inc., assignee: *See*— Fish, Leo.
Falatico, Joseph A., Baltimore, Md. Combined fence and gate. 166,382, Apr. 8.
Fish, Leo, Forest Hills, assignor to F. F. F. Textiles, Inc., New York, N. Y. Furniture scarf or similar article. 166,383, Apr. 8.
Fleck, Robert, Jenkintown, Pa. Carpet. 166,384, Apr. 8.
Foster Metal Products Incorporated, assignee: *See*— Boots, William C.
Gazda, Antoine, Providence, R. I. Shoe heel. 166,385, Apr. 8.
Gehring, Julius W.: *See*— Roumm, Milton P., Gehring, and Chapman.
Gilardi, Carlo, Milan, Italy. Motor bicycle. 166,386, Apr. 8.
Giovacchimi, Aligilvero, Chicago, Ill. Figurine. 166,387, Apr. 8.
Glorieux, Robert C., Newton, Mass. Clock frame or similar article. 166,388, Apr. 8.
Gressitt, Tillman J., Monkton, assignor to Hedwin Corporation, Baltimore, Md. Embossed plastic table mat. 166,389, Apr. 8.
Guild, Lurelle, Noroton, Conn., and F. W. Perl, Mansfield, Ohio, assignors to Westinghouse Electric Corporation. Top and backsplasher unit for electric range. 166,390, Apr. 8.
Hallbauer, Walter, Union City, N. J. Embroidered eyelet fabric. 166,391, Apr. 8.
Hedwin Corporation, assignee: *See*— Gressitt, Tillman J.
Helfenbein, Stanley, Miami, Fla. Illuminable house sign. 166,392, Apr. 8.
Henry, Andrew J., El Paso, Tex. Game board. 166,393, Apr. 8.
Herold, Homer G., Jamestown, Calif. Cutting tool. 166,394, Apr. 8.
Herzog, Jesse T.: *See*— Manne, Max, and Herzog.
Hollis, Norman, London, England, assignor, by mesne assignments, to Thomas Manufacturing Corporation, Newark, N. J. Toy cow. 166,395, Apr. 8.
J. G. Furniture Co., Inc., assignee: *See*— Komal, Ray.
Jeannette Glass Company, The, assignee: *See*— Todd, Kirkland W.
Kasputis, Frank, assignor to Price Brothers, Inc., Chicago, Ill. Illuminable sign. 166,396, Apr. 8.
Kishel, Joseph S., assignee: *See*— Zielinski, Edward A.
Komal, Ray, New York, assignor to J. G. Furniture Co., Inc., Brooklyn, N. Y. Chair. 166,397, Apr. 8.
Laskowitz, Joseph F., St. Louis, Mo. Chair. 166,398, Apr. 8.
Lattuca, John, Brooklyn, N. Y. Earmuff. 166,399, Apr. 8.
Lawsky, Max W., New York, N. Y. Mezuzah case. 166,400, Apr. 8.
Mackie, Gus, Bellevue, Wash. Animal halter. 166,401, Apr. 8.
Manne, Max, St. Louis, and J. T. Herzog, Hazelwood, Mo. Lounge chair. 166,402, Apr. 8.
McColl, Harold D., Douglas, Wyo. Slingshot. 166,403, Apr. 8.
Melville, Joseph, Long Beach, N. Y. Cravat or similar article. 166,404, Apr. 8.
Mercer, Norman J., Brooklyn, N. Y. Spoon or the like. 166,405, Apr. 8.
Minick, William L., Waynesboro, Pa. Periodical support. 166,406, Apr. 8.
Nevelson, Corrine J., New York, N. Y. Spoon or similar article. 166,407, Apr. 8.
Oake, John G., Deer Lake, Newfoundland. Combined axe and hook. 166,408, Apr. 8.
Paciello, Albert W., Richmond Hill, N. Y. Combined buckle and lighter. 166,409, Apr. 8.
Perl, Frederick W.: *See*— Guild, Lurelle, and Perl.

Press, Fred, assignor to Rubel & Company Decorative Accessories, Inc., New York, N. Y. Multiple burner grill stand. 166,410, Apr. 8.
Price Brothers, Inc., assignee: *See*—
Kasputis, Frank.
Quaker Lace Company, assignee: *See*—
Castorani, Francesco P.
Wolf, William.
Rahn, Orval W., Chicago, Ill. Vehicle luggage rack lighting fixture. 166,411, Apr. 8.
Rosen, Fillmore C., Elkins Park, Pa. Stocking. 166,412, Apr. 8.
Rosen, Fillmore C., Elkins Park, Pa. Stocking. 166,413, Apr. 8.
Rosen, Fillmore C., Elkins Park, Pa. Stocking. 166,414, Apr. 8.
Roumm, Milton P., J. W. Gehring, and J. G. Chapman, Seattle, Wash. Pin. 166,415, Apr. 8.
Roumm, Milton P., J. W. Gehring, and J. G. Chapman, Seattle, Wash. Pin. 166,416, Apr. 8.
Rubel & Company Decorative Accessories, Inc., assignee: *See*—
Press, Fred.
Rubin, J. M., & Sons, assignee: *See*—
Rubin, Louis.
Rubin, Louis, assignor to J. M. Rubin & Sons, Gloversville, N. Y. Glove. 166,417, Apr. 8.
Sandkuhle, Raymond C., San Jose, Calif. Planter or similar article. 166,418, Apr. 8.
Sandkuhle, Raymond C., San Jose, Calif. Planter or similar article. 166,419, Apr. 8.
Schluttig, Pearl L., Washington, D. C. Cosmetic container unit. 166,420, Apr. 8.
Slobodkin, Simon H., New York, N. Y., assignor to Canonsburg Pottery Company, Canonsburg, Pa. Combined butter dish and cover. 166,421, Apr. 8.
Stayback, William, Riveredge, N. J. Identification medallion. 166,422, Apr. 8.
Stec, Henry F., Chicago, Ill. Hat. 166,423, Apr. 8.
Stern, Carl R., Garden City, N. Y. Play shoe or the like. 166,424, Apr. 8.
Stolz, Waldo E., Dayton, Ohio. Belt display stand. 166,425, Apr. 8.
Stotter, Alfred B., Cleveland Heights, and A. J. Vaiksnoras, assignors to Transparent Specialties Corporation, Cleveland, Ohio. Combination wall shelf and planter unit. 166,426, Apr. 8.
Strock, Alvin E., Newton, Mass. Tootbrush or similar article. 166,427, Apr. 8.
Thomas Manufacturing Corporation, assignee: *See*—
Hollis, Norman.
Todd, Kirkland W., Pittsburgh, assignor to The Jeannette Glass Company, Jeannette, Pa. Candlestick. 166,428, Apr. 8.
Transparent Specialties Corporation, assignee: *See*—
Stotter, Alfred B., and Vaiksnoras.
Triphahn, Arthur F., Chicago, Ill. Visor for rearview mirrors and the like. 166,429, Apr. 8.
Vaiksnoras, Anthony J.: *See*—
Stotter, Alfred B., and Vaiksnoras.
Vistain, James E., Jr.: *See*—
Adler, Samuel E., and Vistain.
Wagner, Franz, Chicago, Ill. Dinner plate or similar article. 166,430, Apr. 8.
Wagner, Franz, Chicago, Ill. Dinner plate or similar article. 166,431, Apr. 8.
Wagner, Franz, Chicago, Ill. Dinner plate or similar article. 166,432, Apr. 8.
Weitzman, Herman R., Los Angeles, Calif. Combined belt and holsters set. 166,433, Apr. 8.
Westinghouse Electric Corporation, assignee: *See*—
Guild, Lurelle, and Perl.
Wilkoff, Howard M., New York, N. Y. Plastic covering for a pail. 166,434, Apr. 8.
Wolf, William, assignor to Quaker Lace Company, Philadelphia, Pa. Tablecloth. 166,435, Apr. 8.
Wolfelt, Curt, New York, N. Y. Shoe or the like. 166,436, Apr. 8.
Zielinski, Edward A., Berwyn, assignor of one-half to J. S. Kishel, Brookfield, Ill. Holder for an harmonica and amplifier pickup therefor. 166,437, Apr. 8.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

A & J Machine Engineering Co., Inc., assignee: *See*—
Pratt, Arthur J.
A P Controls Corporation, assignee: *See*—
Pawelsky, Vernon R., and Rack.
Abbott Laboratories, assignee: *See*—
Young, Howard H., and Loper.
Abegg & Reinhold Co., assignee: *See*—
Abegg, Walter A.
Spirl, Willy H.
Abegg, Walter A., assignor, by mesne assignments, to Abegg & Reinhold Co., Los Angeles, Calif. Safety clamp for drill collars. 2,591,763, Apr. 8.
Ackerman, Morris, New York, N. Y. Fountain toothbrush. 2,592,099, Apr. 8.
Ackroyd, Archie M., New Hope, Pa., assignor to Standard Oil Development Company. Valve for compressed acetylene. 2,592,371, Apr. 8.
Adams, Clark W., assignee: *See*—
Whitlock, William R.
Adams Corporation, Korn Kurls Division, assignee: *See*—
Heigl, Cyrus H.
Adams, Edgar W., Jr., Fair Lawn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Decoder for pulse code modulation receivers. 2,592,228, Apr. 8.
Addressograph-Multigraph Corporation, assignee: *See*—
Smith, Clyde.
Adler, Alphons, New York, N. Y. Stock recording system. 2,592,100, Apr. 8.
Aerick, Calven, Los Angeles, Calif. Treatment mask. 2,591,992, Apr. 8.
Affiliated Gas Equipment, Inc., assignee: *See*—
Campbell, Donald A., and Buck.
Aijala, Sulo, Coventry, R. I., assignor to Carl G. Peterson Co. Multipawl feed mechanism. 2,591,993, Apr. 8.
Aiken, Charles B., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Electrical logging. 2,592,101, Apr. 8.
Air Reduction Company, Incorporated, assignee: *See*—
Gibson, Glenn J.
Gibson, Glenn J., and Rothschild.
Aktiebolaget Svenska Precisionsverktyg, assignee: *See*—
Alfredéen, Uno A.
Aktiengesellschaft Brown, Boveri & Cie, assignee: *See*—
Thommen, Hans, and Amstutz.
Aktieselskapet Norsk Aluminum Company, assignee: *See*—
Brodal, Erling, and Guldhav.
Alexander, Horace W., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Brazing thin brass members. 2,591,994, Apr. 8.
Alexander, Horace W., Erie, Pa., assignor of one-half to American Sterilizer Company. Sealed beam filament lamp with heat-reducing means. 2,592,102, Apr. 8.
Alexay, Adalbert, Schenectady, N. Y., assignor to General Electric Company. Self-aligning shoe for steady rests used on lathes. 2,592,229, Apr. 8.
Alfredéen, Uno A., Stockholm, assignor to Aktiebolaget Svenska Precisionsverktyg, Nacka, Sweden. Coupling. 2,592,103, Apr. 8.
Alginate Industries Limited, assignee: *See*—
Johnson, Arthur, and Speakman.
Allen, Leonard G., San Francisco, Calif. Door check. 2,592,230, Apr. 8.
Allen, Rufus V., Chino, Calif. Live bait hook device. 2,591,764, Apr. 8.
Allied Chemical & Dye Corporation, assignee: *See*—
Sundstrom, Carl.
Allis-Chalmers Manufacturing Company, assignee: *See*—
Altorfer, Hans A.
Allstott, James O., Pauls Valley, Okla. Feed preparation device. 2,592,231, Apr. 8.
Alt, Rudolph: *See*—
Goldman, Paul R., and Alt.
Altmann, Josef, Salzburg, Austria. Chimney structure. 2,591,906, Apr. 8.
Altorfer, Hans A., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Gas turbine system with means providing for expansion and contraction. 2,592,372, Apr. 8.
Amberg File and Index Company, assignee: *See*—
Amberg, Gilbert W.
Amberg, Gilbert W., assignor to Amberg File and Index Company, Kankakee, Ill. Transparent sheet protector. 2,592,373, Apr. 8.
American Bosch Corporation, assignee: *See*—
Coe, Frank S.
High, Carl F.
Hopkins, William R.
Wood, George B., Jr.
American Cyanamid Company, assignee: *See*—
Casebolt, George S.
Cook, Elmer W.
Mowat, John H., and Waller.
American Electrical Heater Company, assignee: *See*—
Thomas, Laurence H., and Kuhn.
American Sterilizer Company, assignee: *See*—
Alexander, Horace W.
American Viscose Corporation, assignee: *See*—
Nellis, Adin A., Jr.
Amstutz, Arnold: *See*—
Thommen, Hans, and Amstutz.
Anaconda Wire and Cable Company, assignee: *See*—
Ebel, Lawrence C.
Anderson, Austin E., Jamestown, N. Y. Stanchion. 2,591,766, Apr. 8.
Anderson, James, Newton Mearns, Scotland. Metal cutting machine. 2,591,765, Apr. 8.
Anderson, W. E., Inc., assignee: *See*—
Webster, Raymond C.
Andres, William A., Minneapolis, Minn., assignor to General Mills, Inc. Pressure cooker. 2,591,767, Apr. 8.
Anglo-Iranian Oil Company Limited, assignee: *See*—
MacLean, Thomas T.
Anheuser-Busch, Inc., assignee: *See*—
Lubeley, Anthony J.
Siefker, Joseph A., and Brasch.
Anper, Inc., assignee: *See*—
Perugia, André.
Apel, George E., Belmont, Mass., and D. F. Collins, Pontiac, Mich., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass. Vulcanizing machine. 2,591,995, Apr. 8.
Arakelian, Haig M., Peabody, Mass. Liquid filtering element. 2,592,104, Apr. 8.
Archer, Sydney, Albany, assignor to Sterling Drug Inc., New York, N. Y. Iodinated aminophenylsulfonylamino carboxylic acids. 2,592,105, Apr. 8.
Arentzen, Holger C., assignor to Fonofilm Industri A/S, Copenhagen, Denmark. Moving-coil phonograph pickup. 2,591,996, Apr. 8.
Arlington Sheet Metal Corporation, assignee: *See*—
O'Shea, John E.
Armand, Clifford G. M., Cheltenham, England. Mold for molding sweetmeats. 2,592,232, Apr. 8.
Armour and Company, assignee: *See*—
Kaiser, Emil, and Svarz.
Armzen Company, Incorporated, assignee: *See*—
Sendzimir, Tadeusz.
Arnold, George B.: *See*—
Hess, Howard V., Arnold, and Drabkin.
Askell, Henry P., West Yarmouth, Mass. Nutrition indicator. 2,592,106, Apr. 8.
Atchison, Leonard W., Erie, Pa., assignor to General Electric Company. Frost removing arrangement for refrigerator cabinets. 2,592,233, Apr. 8.
Atherton, Albert H., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, England. Thermally adjustable electrical device enclosed within envelopes. 2,591,907, Apr. 8.
Atlas Powder Company, assignee: *See*—
King, George J.
Austin, Robert R., Pasadena, Calif. Resin impregnating wood. 2,591,768, Apr. 8.
Auto-Lite Battery Corporation, assignee: *See*—
Wilson, Harland D., and Popper.
Wilson, Harland D., and Quick.
Automatic Electric Laboratories Inc., assignee: *See*—
Baker, George T.
Herrick, Roswell H.
"Automatic" Sprinkler Corporation of America, assignee: *See*—
Rider, Harry N.
Avco Manufacturing Corporation, assignee: *See*—
Cochran, John E.
Avondale Mills, assignee: *See*—
Pope, Richard R.
Ayres, Waldemar A., Kew Gardens Hills, N. Y., assignor to The Sperry Corporation. Laminating photographic color film to glass. 2,591,665, Apr. 8.

Azorlosa, Julian L., assignor to Hercules Powder Company, Wilmington, Del. Synthetic amphoteric polymers containing free amino groups and free acid groups. 2,592,107, Apr. 8.

Baade, Henry: *See*—
Quartullo, Orpheus F., and Baade.

Backlin, Clarence R.: *See*—
Hirsch, George A., and Backlin.

Backmark, Nils E. G., Hammarbyhojden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden. Electron tube device. 2,591,997, Apr. 8.

Bader, Ghilis E., Bellville, Tex. Retractile antenna mast assembly. 2,592,108, Apr. 8.

Bailey, Christopher E. G., London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Radio navigation aid. 2,591,908, Apr. 8.

Baker, George T., Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Multiple office voice-frequency line identification system. 2,591,909, Apr. 8.

Baker, William R., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Leak detector. 2,591,998, Apr. 8.

Bakewell, George G., assignee: *See*—
Fricke, Richard W.

Ball, Russell C., Wynnewood, and H. O. Kron, assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa. Valve actuating mechanism. 2,592,374, Apr. 8.

Ball, Thomas M., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Throttle control. 2,592,375, Apr. 8.

Ballard, Charles S., Seattle, Wash. Apparatus for making dentures. 2,592,376, Apr. 8.

Barber, Everett M.: *See*—
Eastman, Du Bois, Barber, and Reynolds.

Barford, Norman C., Southend, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electron discharge amplifier device employing hollow resonator. 2,591,910, Apr. 8.

Barham, Theophilus A., Sr., Norfolk, Va. Adjustable supporting leg. 2,591,999, Apr. 8.

Barkas, Walter H., Menlo Park, and W. E. Buck, Inyokern, Calif. Interferometer gauge. 2,591,666, Apr. 8.

Barnes, William E.: *See*—
Chaney, Preston E., and Barnes.

Barney, Freeman, Spring Lake, assignor to The Challenge Machinery Company, Grand Haven, Mich. Proof press. 2,592,379, Apr. 8.

Barr, Frank T., Summit, and H. Z. Martin, Roselle, N. J., assignors to Standard Oil Development Company. Manufacture of gas mixtures containing carbon monoxide and hydrogen. 2,592,377, Apr. 8.

Barrett, Arthur J., assignor of twenty-five per cent to C. T. Murphy and twenty-five per cent to P. L. Wolpert, Onawa, Iowa. Watchmaker's screwdriver sharpener. 2,592,000, Apr. 8.

Barry, Arthur J., Midland, L. De Pree, Holland, and D. E. Hook, assignors to The Dow Chemical Company, Midland, Mich. Preparation of phenyl silicon trichloride. 2,591,668, Apr. 8.

Barry, Gerald J., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Illuminated tuning dial. 2,591,667, Apr. 8.

Bateman, James A.: *See*—
Lehman, Harry A., Bateman, and Bateman.

Bateman, William W.: *See*—
Lehman, Harry A., Bateman, and Bateman.

Bean, Louis A., Indian Hills, Colo. Reel seat for fishing rods. 2,592,109, Apr. 8.

Beckett, Ronald C., Galt, Ontario, Canada. Crankcase ventilator valve. 2,592,380, Apr. 8.

Beechler, Jack S., Detroit, Mich. Flexible coupling. 2,591,769, Apr. 8.

Bell, Alan, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Plasticized cellulose acetate-butyrate and cellulose acetate-propionate. 2,592,234, Apr. 8.

Bell, Frank S.: *See*—
Stewart, Robert J., and Bell.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Adams, Edgar W., Jr.
Llewellyn, Frederick B.
Meacham, Larned A.
Oliver, Bernard M.

Bendix Aviation Corporation, assignee: *See*—
Frerer, Paul G.
Gilbert, Samuel.
Nardone, Romeo M.
Noxon, Paul A., MacCallum and Bennett.
Wechsler, Leonard.

Benner, Paul B., assignor to Caterpillar Tractor Co., Peoria, Ill. Cable laying sheave. 2,591,770, Apr. 8.

Bennett, Alfred: *See*—
Noxon, Paul A., MacCallum, and Bennett.

Bereit, Edwin W., Cleveland, Ohio, assignor to Ingalls Stone Company, Bedford, Ind. Hydraulic moving, positioning, and holding mechanism. 2,592,001, Apr. 8.

Bergey, Elmer E., Lansdale, Pa., assignor to National Casein Company, Chicago, Ill. Gluing a plurality of wooden elements comprising curing a urea formaldehyde adhesive by means of high-frequency heating. 2,591,771, Apr. 8.

Berggren, Lloyd E., Verona, N. J., and A. A. Kurtis, New York, N. Y., assignors to Curtiss-Wright Corporation. Orifice type flame holder construction. 2,592,110, Apr. 8.

Bernstein, Sam: *See*—
Holtz, George F., and Bernstein.

Bintz, Carl: *See*—
Wickes, Harvey R., Bintz, Kretschmer, and Kendall.

Bird & Son, inc., assignee: *See*—
Chamberlain, Eli L.

Birum, Herbert L., Jr.: *See*—
Hammitt, Andrew B., and Birum.

Bischof, Bernhard, Geneva, Switzerland. Injector for internal-combustion engines. 2,592,111, Apr. 8.

Bischoff, Alfred F., Ballston Spa, N. Y., assignor to General Electric Company. Frequency measuring instrument. 2,592,235, Apr. 8.

Bishop, Richard B.: *See*—
Denton, William I., and Bishop.

Björklund, Gustaf E., Stockholm, Sweden. Locking device for contraangle handpieces. 2,591,772, Apr. 8.

Black, Theodore R., Tipp City, Ohio. Room ventilating apparatus. 2,592,002, Apr. 8.

Blackburn and General Aircraft Limited, assignee: *See*—
Prower, Charles W., and Guppy.

Blackman, Theodore A., New York, N. Y., assignor to Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Hypodermic syringe. 2,592,381, Apr. 8.

Blais, Phillipe J., Claremont, N. H. Adjustable milling cutter. 2,592,382, Apr. 8.

Blanchet, André, Neuilly-sur-Seine, assignor to Societe "La Telemecanique Electrique" Nanterre, France. Electromagnetic actuator for contactors and circuit breakers. 2,591,773, Apr. 8.

Blatz, Lee J., Elizabeth, N. J., assignor to Standard Oil Development Company. Preparing heating oil. 2,592,383, Apr. 8.

Bliss, Emmitt, Fort Wayne, Ind. Twist drill gauge. 2,592,003, Apr. 8.

Block, Joseph J., Chicago, Ill. Chair for handicapped persons. 2,591,911, Apr. 8.

Block, Joseph J., Chicago, Ill. Walking trainer for spastic children. 2,591,912, Apr. 8.

Block, Richard J., Scarsdale, N. Y., assignor to The Borden Company. Noncrystallizing lactose sirup and making. 2,592,509, Apr. 8.

Bloom, Quentin M., Huntingdon Valley, assignor to Selas Corporation of America, Philadelphia, Pa. Work conveying mechanism for furnaces. 2,592,236, Apr. 8.

Boeing Airplane Company, assignee: *See*—
Linforth, Robert L., and Hage.

Boice-Crane Company, assignee: *See*—
Boice, William B.

Boice, William B., assignor to Boice-Crane Company, Toledo, Ohio. Fence for jointers. 2,592,384, Apr. 8.

Boller, Ernst: *See*—
Frey, Walter, and Boller.

Boiling, Stewart, Cleveland, Ohio. Circular end shield for mixer rotors. 2,592,004, Apr. 8.

Booth, Harry T., assignor to United Aircraft Products, Inc., Dayton, Ohio. Heat exchange device. 2,591,774, Apr. 8.

Bopp, Edward O.: *See*—
Bopp, Frederick W. and E. O.

Bopp, Frederick W. and E. O., Kansas City, Mo. Vertical Venetian blind. 2,591,775, Apr. 8.

Borden Company, The, assignee: *See*—
Block, Richard J.

Borden, David M., Huntington Woods, and P. T. Nims, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Combustion control apparatus. 2,592,385, Apr. 8.

Borg-Warner Corporation, assignee: *See*—
Swennes, Benjamin A.

Borrows, Edward T., London, assignor to Glaxo Laboratories Limited, Greenford, England. Diphenyl ethers and preparing same. 2,591,776, Apr. 8.

Bosshard, Alexander: *See*—
Schnell, August, and Bosshard.

Boston Woven Hose and Rubber Company, assignee: *See*—
Apel, George E., and Collins.

Botany Mills, Inc., assignee: *See*—
Koerner, Ernst C., Ehrhardt, Haigh, and Kirchhof.

Bowen, Dwain B., Los Angeles, Calif., assignor by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Forming a machining lubricant upon molybdenum. 2,591,777, Apr. 8.

Bowers, Frank, Williamsville, N. Y., P. F. Joseph, Columbus, and K. C. Holmes, Westerville, Ohio, assignors to Curtiss-Wright Corporation. Releasably supporting aircraft components. 2,591,913, Apr. 8.

Bradley, Earl H., Seekonk, Mass., assignor to Builders Iron Foundry. Pump stroke adjusting device. 2,592,237, Apr. 8.

Bradshaw, William H., New Rochelle, N. Y., and W. R. Schmitz, Jr., Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for cellulose processing. 2,592,112, Apr. 8.

Brammer, Harry, Kirkstall, Leeds, England. Pedal reflector. 2,592,238, Apr. 8.

Brasch, Jerome F.: *See*—
Siefker, Joseph A., and Brasch.

Brassert, H. A., & Company, assignee: *See*—
De Jahn, Fredrik W.

Breakey, Norman J., Toronto, Ontario, Canada. Price tag or ticket holder. 2,592,386, Apr. 8.

Brecht, Frederich L., San Francisco, Calif. Expansible bracelet. 2,591,778, Apr. 8.

Bridges, Jack E., Cicero, Ill., assignor to Zenith Radio Corporation. Self-sustaining sawtooth current generator. 2,591,914, Apr. 8.

Brigham, Ward E., Jr.: *See*—
Chillson, Charles W., and Brigham.

Briskman, Samuel, assignee: *See*—
Sherr, Sava I.

Brodal, Erling, and H. Guldhav, Hoyanger, assignors to Aktieselskapet Norsk Aluminum Company, Oslo, Norway. Manufacture of alkali aluminum fluoride. 2,592,113, Apr. 8.

Brooke, Lloyd F.: *See*—
Kemp, Jacob D., and Brooke.

Broos, Henricus A., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Feedback amplifier circuit. 2,591,915, Apr. 8.

Brown-Brockmeyer Company, The, assignee: *See*—
Trant, James L.

Brown, Earl E., assignor of one-half to G. A. Streltz, Camden, N. J. Shaft bearing structure. 2,592,387, Apr. 8.

Brown, Morris E., assignor to Eastman Kodak Company, Rochester, N. Y. Cover locking mechanism. 2,592,239, Apr. 8.

Browse, George W.: *See*—
Robertson, Neil D. G., and Browse.

Brubaker, John T., Luray, Va. Rodent trap. 2,592,388, Apr. 8.

Bruce, Stanford P., assignor to Wheel Trueing Tool Company, Detroit, Mich. Tool bracket and indexing assembly. 2,592,240, Apr. 8.

Bruce, Stanford P., assignor to Wheel Trueing Tool Company, Detroit, Mich. Wheel dressing unit. 2,592,241, Apr. 8.

Brush Development Company, The, assignee: *See*—
Jaffe, Hans.

Buchanan, Robert H.: *See*—
Robertson, Nat C., and Buchanan.

Buck, Homer G., Los Angeles, Calif., assignor to By-Buk Company. Sign and making the same. 2,591,779, Apr. 8.

Buck, Robert M.: *See*—
Campbell, Donald A., and Buck.

Buck, Willard E.: *See*—
Barkas, Walter H., and Buck.

Bucknell, William H., Norwalk, Conn., and E. Miessmer, Yonkers, assignors to Eastern Laboratories, Inc., New York, N. Y. Hair drier. 2,591,669, Apr. 8.

Budy, Albert C., Cleveland, Ohio. Stringer and carrier for fish, game, or other objects. 2,592,389, Apr. 8.

Builders Iron Foundry, assignee: *See*—
Bradley, Earl H.

Burd Piston Ring Co., assignee: *See*—
Colvin, Robert H.

Burgess Battery Company, assignee: *See*—
Lee, Victor A.

Burke, Charles E., Ludlow, Ky. Machine for forming solder bars. 2,592,005, Apr. 8.

Burke, James A., assignor of one-third to W. J. Gibbons and one-third to M. W. Gibbons, Brandon, Wis. Prop attachment for ladders. 2,592,006, Apr. 8.

Burrell Corporation, assignee: *See*—
Guild, Lloyd V.

Burt, Richard E., Dalton, N. Y. Snare. 2,592,390, Apr. 8.

Burtle, Jerome G.: *See*—
Wehrle, Joseph J., Niehouse, and Burtle.

Butterfield, John P., Grosse Pointe Woods, assignor to Chrysler Corporation, Highland Park, Mich. Adjustable suspension for vehicles. 2,592,391, Apr. 8.

By-Buk Company, assignee: *See*—
Buck, Homer G.

Bynum, George T., Fair Lawn, E. H. Olson, Paterson, and F. J. Wiegand, Ridgewood, N. J., assignors to Curtiss-Wright Corporation. Amplitude limiting means for vibration dampers. 2,592,114, Apr. 8.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Production of filaments from acrylonitrile-2-methallyl alcohol polymer. 2,591,670, Apr. 8.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Preparation of globular protein solutions. 2,592,120, Apr. 8.

California Research Corporation, assignee: *See*—
Chittum, Joseph F.

California Research Corporation, assignee: *See*—
Kemp, Jacob D., and Brooke.
Postlewaite, William R.

Cameron, Robert R., Denver, Colo. Double-glazed metal sash. 2,591,780, Apr. 8.

Campbell, Donald A., and R. M. Buck, assignors, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Combined inspirator and gas burner. 2,592,007, Apr. 8.

Campbell, Von C., Syracuse, N. Y., assignor to General Electric Company. Electron gun and mounting therefor. 2,592,242, Apr. 8.

Canziani, Victor J., and D. C. Silverman, Brooklyn, and R. P. Wiener, Bronx, N. Y., assignors to Fairchild Camera and Instrument Corporation. Interchangeable adjustable resistance unit. 2,592,392, Apr. 8.

Carlson, Carl S.: *See*—
Morrell, Charles E., Carlson, and Smith.

Carroll, Burt H., and W. T. Hanson, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Selectively exposing the grains of a mixed grain photographic emulsion. 2,592,243, Apr. 8.

Carrol, Clayton C., Madison, N. J., assignor to United States Radium Corporation, New York, N. Y. Neutron source. 2,592,115, Apr. 8.

Casebolt, George S., Darien, Conn., assignor to American Cyanamid Company, New York, N. Y. Adhesive composition and preparing the same. 2,592,510, Apr. 8.

Caterpillar Tractor Co., assignee: *See*—
Benner, Paul B.
Risk, Norman E., Ramsel, and Williams.

Catranis, John G., Syracuse, N. Y. Knee lock for artificial legs and control therefor. 2,591,781, Apr. 8.

Catterall, William E., Elizabeth, N. J., assignor to Standard Oil Development Company. Dehydration of alcohols by extractive distillation. 2,591,671, Apr. 8.

Catterall, William E., Elizabeth, N. J., assignor to Standard Oil Development Company. Dehydration of alcohols by gasoline extractive distillation. 2,591,672, Apr. 8.

Caughman, Leslie W., Buena Vista, Colo. Self-locking trailer coupling unit. 2,591,916, Apr. 8.

Caughrean, Milo C., San Francisco, Calif. Sled. 2,592,116, Apr. 8.

Celanese Corporation of America, assignee: *See*—
Hilliard, Thomas H.
Robertson, Nat C., and Buchanan.

Chadwick, Earl L., Portland, Oreg. Power agitated metal parts cleaning machine. 2,592,117, Apr. 8.

Chadwick, George A., Washington Groye, Md., and P. H. Girouard, Washington, D. C. Reversible ratchet type projectile hoist. 2,591,673, Apr. 8.

Chalker, William R., Texarkana, Tex. Fishing rod carrying case. 2,591,674, Apr. 8.

Challenge Machinery Company, The, assignee: *See*—
Barney, Freeman.

Chamberlain, Eli L., Norwood, assignor to Bird & Son, inc., East Walpole, Mass. Building unit. 2,592,244, Apr. 8.

Chambers, John M., Leamington Spa, England, assignor to Harry Ferguson, Inc., Detroit, Mich. Pump and motor hydraulic system for use on tractors. 2,592,393, Apr. 8.

Chaney, Preston E., and W. E. Barnes, Beaumont, Tex., assignors to Sun Oil Company, Philadelphia, Pa. Apparatus for determining the zone of lost circulation of drilling mud. 2,592,378, Apr. 8.

Chase-Shawmut Company, The, assignee: *See*—
Edsall, William S., Swain, and Kosacka.

Chemo-Textiles, Inc., assignee: *See*—
Rounds, Comer A., and Nester.

Cherek, Mike, Hatley, Wis. Tractor power take-off. 2,592,008, Apr. 8.

Chicago Rawhide Manufacturing Company, assignee: *See*—
Ullman, Stuart E.

Chillson, Charles W., Caldwell, and W. E. Brigham, Jr., Packanack Lake, N. J., assignors to Curtiss-Wright Corporation. Deicing system for propellers. 2,592,118, Apr. 8.

Chilton, Allan, Ridgewood, N. J., assignor to Curtiss-Wright Corporation. Aircraft engine. 2,592,119, Apr. 8.

Chittum, Joseph F., Whittier, assignor to California Research Corporation, San Francisco, Calif. Scale prevention in oil wells. 2,592,511, Apr. 8.

Chrysler Corporation, assignee: *See*—
Ball, Thomas M.
Borden, David M., and Nims.
Butterfield, John P.
Edwards, Franklin W.
Fodermaier, John J., Jr.
Haeusler, Roy C.
Sackett, Loren C., Miller, and Kelto.

Church, James M., Tenafly, E. W. Johnson, Mountainside, and H. E. Ramsden, New Brunswick, N. J., assignors to Metal & Thermit Corporation, New York, N. Y. Organotin compounds and compositions containing the same. 2,591,675, Apr. 8.

Clark Bros. Co., Inc., assignee: *See*—
Trumpler, William E.

Clayton, Harry H., Jr., Rosamond, Calif. Ejector cooling shroud for use on the exhaust systems of turbojet aircraft engines. 2,591,676, Apr. 8.

Clearing Machine Corporation, assignee: *See*—
Johansen, Einar K.

Cleeton, Claud E., Washington, D. C. Pulse group system of communications. 2,591,677, Apr. 8.

Cleman, Donald V., Bremerton, Wash. Denture locating mechanism. 2,591,678, Apr. 8.

Clement, Anthony J. F., Culver City, Calif., and J. W. Kettl, Memphis, Tenn. Hydraulic force measuring device with electrical indicator. 2,592,009, Apr. 8.

Cleveland, Elonza A.: *See*—
Couch, Dean H., and Cleveland.

Clotworthy, Charles B., Jr., Brooklandville, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for mixing materials. 2,592,245, Apr. 8.

Cloud, William S., Wilmette, Ill. End-folding machine. 2,592,246, Apr. 8.

Cluwen, Johannes M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Demodulator. 2,591,917, Apr. 8.

Cochran, John E., assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Refrigerator defrost product disposal system. 2,592,394, Apr. 8.

Cochran, Ollie H., assignee: *See*—
Harrison, Edward E.

Coe, Frank S., assignor to American Bosch Corporation, Springfield, Mass. Variable capacity pump. 2,592,247, Apr. 8.

Cole, Byron M., Ossining, N. Y., and F. Kerkhof, Eindhoven, Netherlands, assignors to Philips Laboratories, Inc., Irvington on Hudson, N. Y. Voltage-regulated electrical power supply. 2,591,918, Apr. 8.

Cole, Horace, Saint Helens, A. R. Green, Rainford, E. B. Le Mare, and R. F. Taylor, Allithwaite, assignors to Pilkington Brothers Limited, Liverpool, England. Apparatus for melting batch material used in the manufacture of glass. 2,592,010, Apr. 8.

Collard, John, London, England, assignor to Electric and Musical Industries, Limited. Electrical apparatus for detecting the presence of moving objects. 2,591,919, Apr. 8.

Collins, Don F.: *See*—
Apel, George E., and Collins.

Colston, William D., Maywood, Ill. Spray guard for outboard motor boats. 2,592,011, Apr. 8.

Columbia-Southern Chemical Corporation, assignee: *See*—
Muskat, Irving E., and Strain.

Colvin, Robert H., Delavan, Wis., assignor to Burd Piston Ring Co., Rockford, Ill. Piston ring. 2,591,920, Apr. 8.

Combined Metals Reduction Company, assignee: *See*—
Klepetko, Ernest, Kaye, and Hartzell.

Comet Envelope & Paper Co., Inc., assignee: *See*—
Gerbe, Jack.

Commonwealth Engineering Company of Ohio, The, assignee: *See*—
Toulmin, Harry A., Jr.

Compagnie Generale d'Electricite, assignee: *See*—
Leroy, Robert P.

Compule Corporation, The, assignee: *See*—
Lockhart, Marshall L.

Cook, Elmer W., Dolphin Square, England, assignor to American Cyanamid Company, New York, N. Y. Preparing thiophosphoryl chloride. 2,591,782, Apr. 8.

Coover, Harry W., Jr., and J. B. Dickey, assignors to Eastman Kodak Company, Rochester, N. Y. Alpha-acylamino acrylamides and polymers thereof. 2,592,248, Apr. 8.

Corn Products Refining Company, assignee: *See*—
Couch, Dean H., and Cleveland.
Gallagher, Dudley M.

Cosgriff, Robert L., and E. L. Walls, Jr., Columbus, Ohio, assignors to Curtiss-Wright Corporation. Electromagnetic balance accelerometer. 2,591,921, Apr. 8.

Couch, Dean H., China Lake, Calif., and E. A. Cleveland, Milan, Italy, assignors to Corn Products Refining Company, New York, N. Y. Preparation of uronic acids and derivatives thereof. 2,592,249, Apr. 8.

Courtaulds Limited, assignee: *See*—
Hegan, Horace J.

Craddock, Douglas L., Leaksville, N. C. Protecting shield. 2,591,783, Apr. 8.

Cramer, Raymond H., Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich. Abrading machine. 2,591,784, Apr. 8.

Crawford, William S., Dallas, and A. S. Graham, Carrollton, Tex. Bin batching plant. 2,591,785, Apr. 8.

Crocker, Floyd A.: *See*—
Ridgely, Holland F., and Crocker.

Crompton & Knowles Loom Works, assignee: *See*—
Donnan, Robert A.
Sepavich, Victor F., and Donnan.

Cronheim, Richard B., St. Louis, Mo. Stove accessory. 2,591,786, Apr. 8.

Crook, Harry P.: *See*—
Kline, Paul C., Crook, and Cutsem.

Crowley, John A., Jr., Scarsdale, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated. Regeneration of a moving bed catalyst at a uniform burning rate. 2,592,121, Apr. 8.

Crown Cork & Seal Company, Inc., assignee: *See*—
Stewart, Robert J., and Bell.

Cumming, William O., assignor of fifty per cent to L. D. Stephen, Cordele, Ga. Feed saving attachment. 2,592,012, Apr. 8.

Cummings, Robert E., Cranston, assignor to The Hadley Company, Incorporated, Providence, R. I. Magnetic necktie holder. 2,592,395, Apr. 8.

Curley, Thomas F., Atlantic City, N. J. Golf club. 2,592,013, Apr. 8.

Curtiss-Wright Corporation, assignee: *See*—
Berggren, Lloyd E., and Kurtis.
Bowers, Frank, Joseph, and Holmes.
Bynum, George T., Olson, and Wiegand.
Chillson, Charles W., and Brigham.
Chilton, Allan.
Cosgriff, Robert L., and Walls.
Holben, Martin M., and Weeks.
Miller, Sheldon M.
Williams, Sidney B.

Cusic, John W., assignor to G. D. Searle & Co., Skokie, Ill. Amino alkanoyl phenothiazine derivatives and the production thereof. 2,591,679, Apr. 8.

Cutting Room Appliances Corporation, assignee: *See*—
Gilbert, Herman W.

Cyphers, Elmer B.: *See*—
Waddey, Walter E., and Cyphers.

Dachkevitch, Vsevolod, Neuilly, France. Automatic cable gripper for suspended vehicles. 2,591,680, Apr. 8.

Dahlstrom, John A., Bay Village, assignor to Perfection Stove Company, Cleveland, Ohio. Hot-air furnace, particularly of the forced-draft type. 2,592,396, Apr. 8.

Dale, Paul D.: *See*—
Smith, Robert F., Jr., and Dale.

Da-Lite Screen Company, Inc., assignee: *See*—
Du Mais, Leo J., and Prokop.

Darrah, Kermit L.: *See*—
Smith, Norman A., and Darrah.

Dath, George E., Mokena, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,591,922, Apr. 8.

Davey, Edward P., and E. B. Knott, Wealdstone, England, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic silver bromide emulsion containing some silver iodide. 2,592,250, Apr. 8.

David, Heinz E., Parkchester, N. Y. Buckle with pivoted tongue. 2,591,787, Apr. 8.

Davis, John V., assignor to The Udylite Corporation, Detroit, Mich. Work-immersion machine with selected delayed immersion. 2,591,681, Apr. 8.

Davis, John V., assignor to The Udylite Corporation, Detroit, Mich. Work-immersion machine with vertically and laterally movable rail section. 2,591,682, Apr. 8.

Davis, Sander A.: *See*—
McLean, Colin C., and Davis.

Day, Merton B., Warren, Mass. Box-type wrench having spring-closed head segments. 2,591,788, Apr. 8.

Dayie, Elias G., Boston, Mass. Spanner tool to remove covers from articles. 2,592,251, Apr. 8.

Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Selector switch brush. 2,591,683, Apr. 8.

Deakin, Gerald, assignor to International Standard Electric Corporation, New York, N. Y. Electrical contact. 2,591,684, Apr. 8.

De Coste, Fredrik, New York, N. Y. Bookrest. 2,592,252, Apr. 8.

De Dionigi, Luigi, Rome, Italy. Automatic hydraulic speed change mechanism. 2,592,015, Apr. 8.

De Gruchy, John N., Rickmansworth, England. Wireless navigation system. 2,592,014, Apr. 8.

De Jahn, Fredrik W., assignor to H. A. Brassert & Company, New York, N. Y. Apparatus for reducing metallic oxides. 2,591,789, Apr. 8.

De Jesus, Pedro, Bronx, N. Y. Playing card. 2,592,122, Apr. 8.

De Lano, Ralph B., Jr.: *See*—
Firestone, Floyd A., and De Lano.

De Laval Steam Turbine Company, assignee: *See*—
Sennet, Morgan B.

Delegard, Carl J., Chicago, Ill. Apparatus for fabricating ladders for Venetian blinds. 2,591,923, Apr. 8.

Delp, William J., assignor to Gibson Refrigerator Company, Greenville, Mich. Guide shell. 2,592,253, Apr. 8.

Denson, Alfred C., Rockville, Conn. Radio and television antenna. 2,591,790, Apr. 8.

Denton, William I., Woodbury, and R. B. Bishop, Haddonfield, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Production of pyridine nitriles. 2,592,123, Apr. 8.

De Pree, Lee: *See*—
Barry, Arthur J., De Pree, and Hook.

De Smet, Polydoor F.: *See*—
Schwarz, George, and De Smet.

Detroit Steel Products Company, assignee: *See*—
Rockhoff, Bert E.

Devaney, Lawrence W.: *See*—
McCleary, Rush F., and Devaney.

Dickey, Joseph B.: *See*—
Coover, Harry W., Jr., and Dickey.

Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. Monomers and polymers of vinyl carbamic acid derivatives and their preparation. 2,592,254, Apr. 8.

Diefenderfer, William E., Wethersfield, assignor to United Aircraft Corporation, East Hartford, Conn. Pitch lock and actuating valve therefor. 2,592,124, Apr. 8.

Dilworth, Richard M., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Dynamic braking control. 2,591,791, Apr. 8.

Doll, Henri-Georges, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Method and apparatus for logging static spontaneous potentials in wells. 2,592,125, Apr. 8.

Donley, Hugh L., Princeton, N. J., assignor to Radio Corporation of America. Frequency stabilization of radio frequency generators. 2,591,792, Apr. 8.

Donnan, Robert A.: *See*—
Sepavich, Victor F., and Donnan.

Donnan, Robert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detecting system for shifting shuttle box looms. 2,592,126, Apr. 8.

Dorey, George B., Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill. Manufacturing hopper car frame structure. 2,591,924, Apr. 8.

Dow Chemical Company, The, assignee: *See*—
Barry, Arthur J., De Pree, and Hook.

Dow Corning Corporation, assignee: *See*—
Sommer, Leo H.

Drabkin, Marvin L.: *See*—
Hess, Howard V., Arnold, and Drabkin.

Drees, Sophia P., Kansas City, Mo. Cleansing tissue dispenser. 2,592,255, Apr. 8.

Dubbs, Frederick A., Philadelphia, Pa. Sled or sleigh. 2,592,397, Apr. 8.

Dubois, Bernard M.: *See*—
Dubois, Maurice O. and B. M.

Dubois, Maurice O. and B. M., Soisy-sur-Montmorency, France. Device for adjusting the return travel of fluid actuated means. 2,591,793, Apr. 8.

Du Charme, William S., assignor to Superior Valve Manufacturing Company, Cleveland, Ohio. Valve stem construction. 2,592,256, Apr. 8.

Du Mais, Leo J., and F. J. Prokop, assignors to Da-Lite Screen Company, Inc., Chicago, Ill. Sliding bracket lock. 2,591,685, Apr. 8.

Du Mais, Leo J., and F. J. Prokop, assignors to Da-Lite Screen Company, Inc., Chicago, Ill. Picture screen stand. 2,591,686, Apr. 8.

Dunlap, William C., Jr., Schenectady, N. Y., assignor to General Electric Company. Hall effect device. 2,592,257, Apr. 8.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Bradshaw, William H., and Schmitz.
Goebel, Max T., and Iler.
Ikeda, Carol K.
Linville, Robert G.
MacDonald, Robert N.
Marvel, Carl S., and Miegel.
Morrison, John O., and Perkins.
Schneider, Allan K.
Smith, Frank E., and Williams.
Willcox, Oswin B.
Zwilgmeyer, Frithjof.

Duristol Inc., assignee: *See*—
Schnell, August, and Bosshard.

Dusthane Mfg. Company Limited, assignee: *See*—
Sawchuk, Michael.

Dwyer, James J.: *See*—
Erb, George H., Dwyer, and Kolessar.

Eastern Laboratories, Inc., assignee: *See*—
Bucknell, William H., and Miessmer.

Eastman, Du Bois, Scarsdale, E. M. Barber, Wappingers Falls, N. Y., and B. Reynolds, Montclair, N. J., assignors to The Texas Company, New York, N. Y. Manufacture of synthesis gas. 2,591,687, Apr. 8.

Eastman Kodak Company, assignee: *See*—
Bell, Alan.
Brown, Morris E.
Caldwell, John R.
Carroll, Burt H., and Hanson.
Coover, Harry W., Jr., and Dickey.
Davey, Edward P., and Knott.
Dickey, Joseph B.
Emerson, Howard J., O'Connor, and Emery.
Fox, Arthur B.
Frame, Gordon F.
Fultz, Allen R.
Hutchison, Miller R., Jr.
Levenson, Gerald I. P.
Loria, Anthony, Vittum, and Weissberger.
Malm, Carl J., and Tanghe.
Meyer, Lester W. A., and Gearhart.
Nadeau, Gale F., and Glasoe.
Smith, Robert F., Jr., and Dale.
Stober, Joseph.
Weissberger, Arnold, Glass, and Vittum.
Wiltala, Edwin S., and Kridel.
Yackel, Edward C.

Ebauches S. A., assignee: *See*—
Robert-Charrue, Fritz-André.

Ebel, Lawrence C., Dobbs Ferry, N. Y., assignor to Anaconda Wire and Cable Company. Gas-filled power cable with embossed tape. 2,591,794, Apr. 8.

Eberhard, Everett: *See*—
Moore, Raymond P., Jr., and Eberhard.

Eckman, Donald P.: *See*—
Wannamaker, William H., Jr., and Eckman.

Economakis, George P., Asbury Park, N. J. Article of manufacture in the form of a picture and making same. 2,592,258, Apr. 8.

Eddy, William R., and T. A. St. Clair., Bartlesville, Okla., assignors to Phillips Petroleum Company. Automatic selector, change-over regulator and indicator device. 2,592,259, Apr. 8.

Edelman, Leonard E.: *See*—
Thomas, Charles C. H., and Edelman.

Edison, Thomas A., Incorporated, assignee: *See*—
Stamper, Willson Y.

Edmondson, Jay N., H. Poulos, and C. R. James, Columbus, Ohio. Stapling machine. 2,592,398, Apr. 8.

Edsall, William S., Boston, Mass., K. W. Swain, Hampton Falls, N. H., and F. J. Kozacka, Amesbury, assignors to The Chase-Shawmut Company, Newburyport, Mass. Current-limiting fuse. 2,592,399, Apr. 8.

Edwards, Franklin W., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Heater. 2,592,400, Apr. 8.

Ehrhardt, Hugo: *See*—
Koerner, Ernest C., Ehrhardt, Haigh, and Kirchhof.

Eisler, Joseph D., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Vibration detector. 2,591,795, Apr. 8.

Elastic Stop Nut Corporation of America, assignee: *See*—
Erb, George H., Dwyer, and Kolessar.

Electric & Musical Industries Limited, assignee: *See*—
Atherton, Albert H.
Barford, Norman C.
Collard, John.

Electromatic Engineering Company, Inc., assignee: *See*—
Jones, Theodore C.

Elektrokemisk A/S, assignee: *See*—
Ingelsrud, Arne H.

Elkhart Brass Manufacturing Company, Inc., assignee: *See*—
Hansen, Edward H.

Emerson, Howard J., R. J. O'Connor, and G. A. Emery, assignors to Eastman Kodak Company, Rochester, N. Y. Can sorting machine. 2,592,260, Apr. 8.

Emery, George A.: *See*—
Emerson, Howard J., O'Connor, and Emery.

Emmons, Willard O.: *See*—
Rogers, Philip S., Emmons, Godfrey, and Kelso.

Engel, Willem F., Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif. Double-impregnation method of producing a pelleted catalyst. 2,592,016, Apr. 8.

Engstrom, Henry O., assignor to R. W. Luce, Southport, Conn. Making a self-locking nut. 2,592,128, Apr. 8.

Engstrom, Henry O., New Canaan, assignor to R. W. Luce, Southport, Conn. Making a self-locking nut. 2,592,129, Apr. 8.

Engstrom, Oscar L., New York, N. Y. Bottle lifter. 2,592,017, Apr. 8.

Ensslie, Fred G., Roselle Park, N. J. Tobacco-smoking pipe bowl and stem cleaner. 2,592,401, Apr. 8.

Enterprise Railway Equipment Company, assignee: *See*—
Dorey, George B.

Erb, George H., South Orange, J. J. Dwyer, Union, and A. G. Kolessar, Linden, assignors to Elastic Stop Nut Corporation of America, Union, N. J. Insulating fastening device. 2,592,130, Apr. 8.

Erbe, George, Jersey City, N. J. Inserting tool for snap ties. 2,591,925, Apr. 8.

Erdahl, Nicholas M., assignor to Trackson Company, Milwaukee, Wis. Earth auger. 2,592,402, Apr. 8.

Eriksen, Leif: *See*—
Jaern, Albert, and Eriksen.

Erwood, Joseph, Crystal Lake, Ill., assignor, by mesne assignments, to W. J. McGah, as trustee. Intermittent operating mechanism. 2,591,796, Apr. 8.

Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Preparing hydrocarbon feed stocks containing asphaltic material for catalytic cracking. 2,592,403, Apr. 8.

Evans, Louis P., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated. Hydrocarbon conversion. 2,592,404, Apr. 8.

Everest & Jennings, Inc., assignee: *See*—
Miller, Jack C.

Everest, Herbert A., and H. C. Jennings, Los Angeles, Calif. Collapsible commode chair. 2,592,405, Apr. 8.

Ewing, William M.: *See*—
Klebba, Arthur A., Vine, and Ewing.

Ex-Cell-O Corporation, assignee: *See*—
Seyferth, Harold N.

Exline, Marcus P., and C. L. Ruhl, Dallas, Tex. Collapsible table. 2,591,797, Apr. 8.

Fairbanks, Avard F., Garvey, Calif., assignor to North American Aviation, Inc. Function printer. 2,592,018, Apr. 8.

Fairchild Camera and Instrument Corporation, assignee: *See*—
Canziani, Victor J., Silverman, and Wiener.
Hale, Henry E.

Faltin, William G., York, Pa. Fountain pen of the ball point type. 2,592,406, Apr. 8.

Farnett, Horace E., Crescent Park, N. J., assignor to Radio Corporation of America. Wire-cutting machine. 2,592,019, Apr. 8.

Farnsworth Research Corporation, assignee: *See*—
Barry, Gerald J.
Farone, Roland J., assignor of one-half to L. G. Ronson, Watertown, N. Y. Sanitary neck duster. 2,592,020, Apr. 8.
Farrar, Roland O., West Acton, Mass. Toothbrush sterilizer. 2,592,131, Apr. 8.
Faulkner, Edward, assignor, by mesne assignments, to Roller Riddle Corp., Port Huron, Mich. Sand riddling device. 2,591,688, Apr. 8.
Faure-Herman, Jean, Boulogne-sur-Seine, France. Electric tachometer. 2,591,798, Apr. 8.
Feilden, Geoffrey B. R., Lutterworth, near Rugby, A. Simons, and R. Holl, Leicester, assignors to Power Jets (Research & Development) Limited, London, England. Liquid fuel supply and control system for atomizing nozzles. 2,592,132, Apr. 8.
Ferguson, Harry, Inc., assignee: *See*—
Chambers, John M.
Fernandes, Daniel S., Paramaribo, Surinam, Dutch West Indies. Processing rice for preserving the vitamin contents thereof. 2,592,407, Apr. 8.
Ferris, Warren R., Kingston, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,592,408, Apr. 8.
Field, Lester M., assignor to International Standard Electric Corporation, New York, N. Y. High-density beam control. 2,591,689, Apr. 8.
Firestone, Floyd A., Ann Arbor, Mich., and R. B. De Lano, Jr., New York, N. Y., assignors to Sperry Products, Inc., Hoboken, N. J. Synchronizing a voltage train generator and power supply. 2,592,133, Apr. 8.
Firestone, Floyd A., Ann Arbor, Mich., assignor to Sperry Products, Inc., Hoboken, N. J. Supersonic inspection. 2,592,134, Apr. 8.
Firestone, Floyd A., Ann Arbor, Mich., assignor to Sperry Products, Inc., Hoboken, N. J. Inspecting solid parts by supersonic shear waves. 2,592,135, Apr. 8.
Fischer, Karl A., College Park, Md. Deasphaltizing oils. 2,591,690, Apr. 8.
Fletcher-Terry Company, The, assignee: *See*—
Judd, Chester K., Jr.
Flo-Matic Valve Co., assignee: *See*—
Goodroad, Earl and E. E.
Florence Stove Company, assignee: *See*—
Reeves, Herbert M.
Schlaf, Joseph W.
Fodermaier, John J., Jr., Grosse Pointe, assignor to Chrysler Corporation, Highland Park, Mich. Collapsible top. 2,592,512, Apr. 8.
Fonda, Gorton R., Schenectady, N. Y., assignor to General Electric Company. Halophosphate phosphors. 2,592,261, Apr. 8.
Fonofilm Industri A/S, assignee: *See*—
Arentzen, Holger C.
Food Machinery and Chemical Corporation, assignee: *See*—
Keesling, Thomas B.
Forrester, Glenn C., Niagara Falls, N. Y. Determining breath alcohol content. 2,591,691, Apr. 8.
Forrester, Robert E.: *See*—
Orlin, William J., Heuver, and Forrester.
Fosdick Machine Tool Company, The, assignee: *See*—
Knosp, Robert N., Linden, and Wetzel.
Fossieck, Gerald W.: *See*—
Mueller, Reinhold H., and Fossieck.
Foster Wheeler Corporation, assignee: *See*—
Sampson, William.
Fougera, E., & Co., Inc., assignee: *See*—
Halpern, Alfred.
Fox, Arthur B., assignor to Eastman Kodak Company, Rochester, N. Y. Slide mount. 2,592,262, Apr. 8.
Frame, Gordon F., assignor to Eastman Kodak Company, Rochester, N. Y. Reacting gelatin with naphthyl isocyanates and resulting products. 2,592,263, Apr. 8.
Frankland, Edwin, assignor to Vinco Corporation, Detroit, Mich. Pilot gauge. 2,592,409, Apr. 8.
Frerer, Paul G., assignor to Bendix Aviation Corporation, Baltimore, Md. Automatic burner control system. 2,592,410, Apr. 8.
Frey, Walter, Basel, and E. Boller, Pratteln, assignors to Saenrefabrik Schweizerhall, Schweizerhalle, Switzerland. Purifying normally liquid chlorides of metals of group 4 of the periodic system. 2,592,021, Apr. 8.
Fricke, Richard W., San Gabriel, assignor to G. G. Bakewell, South Pasadena, Calif. Toolholder. 2,591,692, Apr. 8.
Friedman, Anna, New York, N. Y. Construction of slips. 2,591,799, Apr. 8.
Frohnapel, Alvah V., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Flexible leaf hinge. 2,592,411, Apr. 8.
Frohnapel, Alvah V., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Lid for refrigerating apparatus. 2,592,412, Apr. 8.
Fultz, Allen R., assignor to Eastman Kodak Company, Rochester, N. Y. Contour projector. 2,592,264, Apr. 8.
Fyffe, Evelyn M., Detroit, Mich. Brassière. 2,592,265, Apr. 8.
Gallagher, Dudley M., Berwyn, Ill., assignor to Corn Products Refining Company, New York, N. Y. Preparation of glucuronic acid and derivatives thereof. 2,592,266, Apr. 8.
Gallant, Charles B., Newtonville, Mass., assignor to Gallant Termite Barrier, Inc. Device for use in protecting buildings against termites. 2,592,022, Apr. 8.
Gallant Termite Barrier, Inc., assignee: *See*—
Gallant, Charles B.
Gangemi, Carmine and R., Dover, N. J. Snow melting machine. 2,592,267, Apr. 8.
Gangemi, Rocco: *See*—
Gangemi, Carmine and R.
Gardiner, Duncan B., assignor to Vickers Incorporated, Detroit, Mich. Hydraulic control valve. 2,591,800, Apr. 18.
Gardner, Lawrence H., Lakewood, Ohio. Valve structure. 2,591,801, Apr. 8.
Garfield, Sydney, Los Angeles, Calif. Steering device for steering wheels. 2,592,413, Apr. 8.
Garner, Russell F.: *See*—
Weber, Victor, and Garner.
Garner, Russell F., Youngwood, assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostatic control switch. 2,591,802, Apr. 8.
Garner, Russell F., Youngwood, assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostatic control switch. 2,591,803, Apr. 8.
Garvey, Edward S., Clayton, Mo. Valve for fountain stencil brushes. 2,592,136, Apr. 8.
Gatesy, John J., Torrington, Conn. Automatic door opener. 2,591,693, Apr. 8.
Gearhart, William M.: *See*—
Meyer, Lester W. A., and Gearhart.
General Aniline & Film Corporation, assignee: *See*—
Harsh, Harold C.
Hensley, Lee C.
General Controls Co., assignee: *See*—
Ray, William A.
General Electric Company, assignee: *See*—
Alexay, Adalbert.
Atchison, Leonard W.
Bischoff, Alfred F.
Campbell, Von C.
Dunlap, William C., Jr.
Fonda, Gorton R.
Hendrick, Lloyd M., and Wheeler.
Meier, Donald R.
Nerad, Anthony J.
Ryckman, William D., Jr.
Scheidorf, Owen H.
Smith, Norman A., and Darrah.
Thompson, Charles T.
General Mills, Inc., assignee: *See*—
Andres, William A.
Wittcoff, Harold, and Jordan.
General Motors Corporation, assignee: *See*—
Alexander, Horace W.
Cramer, Raymond H.
Dilworth, Richard M.
Liliquist, Torsten O.
McClean, Herbert G.
Rogers, Philip S., Emmons, Godfrey, and Kelso.
Russell, Gilbert A.
Wallis, Cyril T.
General Register Corporation, assignee: *See*—
Milburn, Robert.
Gerbe, Jack, assignor to Comet Envelope & Paper Co., Inc., New York, N. Y. Cutting device for moving strip. 2,592,268, Apr. 8.
German, Irvine F., Jr.: *See*—
Jacoley, Leon, and German.
Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G., assignee: *See*—
Schnyder, Ottmar.
Gettelman, Gilbert C.: *See*—
Perkins, Layton E., and Gettelman.
Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Agricultural cutting and processing machine assembly. 2,592,269, Apr. 8.
Getz, Benjamin E., assignor to A. F. Meyer Mfg. Co., Morton, Ill. Processing hay and the like. 2,592,270, Apr. 8.
Gevaert Photo-Producten N. V., assignee: *See*—
Schwarz, George, and De Smet.
Gibbons, Melvin W., assignee: *See*—
Burke, James A.
Gibbons, Wayne J., assignee: *See*—
Burke, James A.
Gibson, Glenn J., Chatham, and G. R. Rothschild, Somerville, N. J., assignors to Air Reduction Company, Incorporated. Inert gas shielded arc welding method. 2,591,926, Apr. 8.
Gibson, Glenn J., Summit, N. J., assignor to Air Reduction Company, Incorporated. Producing hard-faced metal. 2,592,414, Apr. 8.
Gibson Refrigerator Company, assignee: *See*—
Delp, William J.
Gilbert, Herman W., Forest Hills, assignor to Cutting Room Appliances Corporation, New York, N. Y. Reel support structure for multiple marker devices. 2,591,694, Apr. 8.
Gilbert, Samuel, Cedar Grove, assignor to Bendix Aviation Corporation, Teterboro, N. J. Engine starter. 2,592,271, Apr. 8.
Gillette Safety Razor Company, assignee: *See*—
Testi, Nicholas.

Girouard, Philias H.: *See*—
Chadwick, George A., and Girouard.
Gladstone, Sidney A., Paterson, N. J. Obtaining tumor tissue specimen. 2,591,927, Apr. 8.
Glaisher, Edward J.: *See*—
Richards, Claude L., and Glaisher.
Glasoe, Alf M.: *See*—
Nadeau, Gale F., and Glasoe.
Glass, Dudley B.: *See*—
Weissberger, Arnold, Glass, and Vittum.
Glaxo Laboratories Limited, assignee: *See*—
Borrows, Edward T.
Heilbron, Ian M., Weedon, Jones, Hems, and Jansen.
Gleason, Elden C., Hartford, Wash., assignor to Gleep Mfg. Co., Inc. Motor-driven invalid's chair. 2,592,023, Apr. 8.
Gleep Mfg. Co., Inc., assignee: *See*—
Gleason, Elden C.
Glovinsky, Harry, Utica, N. Y. Magnetic can opener. 2,592,272, Apr. 8.
Godfrey, John W.: *See*—
Rogers, Philip S., Emmons, Godfrey, and Kelso.
Goebel, Max T., Landenburg, Pa., and R. K. Iler, Cleveland Heights, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Quaternary ammonium salts of high molecular weight polymetaphosphoric acid. 2,592,273, Apr. 8.
Goldman, Paul R., and R. Alt, Andover, assignors to Plymold Corporation, Lawrence, Mass. Apparatus for manufacturing lamellar tubing. 2,591,928, Apr. 8.
Gonda, John H., Salem, Ohio. Animated wheeled toy. 2,591,804, Apr. 8.
Goodrich, B. F., Company, The, assignee: *See*—
Katzenmeyer, Edwin B., and Krupp.
Larsen, Earl E., and Luther.
Slusher, Frank.
Goodroad, Earl and E. E., Cambridge, Minn., assignors to Flo-Matic Valve Co. Timing valve. 2,592,024, Apr. 8.
Goodroad, Elmer E.: *See*—
Goodroad, Earl and E. E.
Gossett, Homer E., Portland, Oreg. Holder for implements. 2,591,805, Apr. 8.
Graham, Arthur S.: *See*—
Crawford, William S., and Graham.
Graham, MacKellar K., assignor to Vickers Incorporated, Detroit, Mich. Power transmission. 2,591,806, Apr. 8.
Granath, Axel G., Chicago, assignor, by mesne assignments, to H. S. Simpson, Evanston, Ill., as trustee. Conveyer trough. 2,591,929, Apr. 8.
Granite City Steel Company, Inc., assignee: *See*—
Hodil, Ralph.
Grant, Hilda, executrix: *See*—
Zimdars, John B.
Gray, Anna M. M., Portland, Oreg. Invalid chair. 2,592,025, Apr. 8.
Gray, Claud W., El Paso, Tex. Closure control device. 2,592,137, Apr. 8.
Green, Alfred R.: *See*—
Cole, Horace, Green, Le Mare, and Taylor.
Green, Charles P., Chicago, Ill. Clothesline tensioning device. 2,591,930, Apr. 8.
Greene, Chester W.: *See*—
Walsh, John E., and Greene.
Greene, Haskell M., Whittier, Calif. Oil well cementing. 2,591,807, Apr. 8.
Groeger, Alfred H., New Hyde Park, assignor to Kason Hardware Corporation, Brooklyn, N. Y. Adjustable keeper. 2,592,274, Apr. 8.
Grogan, Austin J., Los Angeles, Calif. Cartridge loading device. 2,592,415, Apr. 8.
Grosdoff, Igor E., Princeton, N. J., assignor to Radio Corporation of America. Electron counter circuits. 2,591,931, Apr. 8.
Groseevenor, Oliver, Morrison, assignor to Libby, McNeill & Libby, Chicago, Ill. Conveyer apparatus. 2,592,275, Apr. 8.
Groth, Edward J., Jr., St. Louis, Mo., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Indicating device for radioactivity intensity. 2,592,416, Apr. 8.
Guboff, Edward H., Beverly Hills, Calif. Clutch means for phonograph records. 2,592,026, Apr. 8.
Guice, John M., assignee: *See*—
Wells, Isaac S.
Guild, Lloyd V., Pittsburgh, Pa., assignor to Burrell Corporation. Making analysis of composite gas mixtures. 2,591,808, Apr. 8.
Guldhav, Henning: *See*—
Brodal, Erling, and Guldhav.
Guppy, Thomas G.: *See*—
Prower, Charles W., and Guppy.
Gwoosh, Stephen J., and C. E. Taylor, Newark, N. J. Razor blade dispensing package. 2,592,138, Apr. 8.
Hackbarth, Carl J., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Article assembling apparatus. 2,592,276, Apr. 8.
Hadley Company, Incorporated, The, assignee: *See*—
Cummings, Robert E.
Haensler, Roy C., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Throttle dashpot mechanism. 2,592,513, Apr. 8.
Hage, Sigurd D.: *See*—
Linforth, Robert L., and Hage.
Hagerbaumer, William A.: *See*—
Sinclair, Edward L., and Hagerbaumer.
Hagerup, Carl F., Juneau, Territory of Alaska. Door for truck bodies. 2,592,027, Apr. 8.
Haigh, Frederick R.: *See*—
Koerner, Ernst C., Ehrhardt, Haigh, and Kirchhof.
Hale, Henry E., Freeport, N. Y., assignor to Fairchild Camera and Instrument Corporation. Gyrostabilizing system. 2,592,417, Apr. 8.
Hallewell, Harold S., assignee: *See*—
Porter, Charles B. A.
Halpern, Alfred, Pittsburgh, Pa., assignor to E. Fougera & Co., Inc., New York, N. Y. Diuretic mercury compounds. 2,592,418, Apr. 8.
Hammer, Otto, assignor to Security Engineering Co., Inc., Whittier, Calif. Bearing for gauge cutters of rotary rock bits. 2,592,277, Apr. 8.
Hammitt, Andrew B., and H. L. Birum, Jr., Trenton, N. J. Sealing washer. 2,592,028, Apr. 8.
Hammond Bag & Paper Company, assignee: *See*—
Weaver, Allen E.
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Magnetron. 2,591,932, Apr. 8.
Hansen, Edward H., assignor to Elkhart Brass Manufacturing Company, Inc., Elkhart, Ind. Dry powder fire extinguisher. 2,592,029, Apr. 8.
Hansen, William W., Garden City, N. Y., assignor to The Sperry Corporation. High-frequency radiator apparatus and resonator. 2,591,695, Apr. 8.
Hansen, William W., Stanford University, Calif., assignor to The Sperry Corporation. High-frequency electron tube structure. 2,591,696, Apr. 8.
Hanson, John M., Sr., Alsea, Oreg. Chain saw depth gauge. 2,592,278, Apr. 8.
Hanson, Roy E., Altadena, Calif. Apparatus for welding seams in cylindrical vessels. 2,591,809, Apr. 8.
Hanson, Wesley T., Jr.: *See*—
Carroll, Burt H., and Hanson.
Harding, Donald D., Avilla, Ind. Electric wire insulator support. 2,592,030, Apr. 8.
Harding, Donald D., Avilla, Ind. Supporting structure for insulators. 2,592,031, Apr. 8.
Harper, James I., Media, F. R. Shuman, Jr., Chester Springs, Pa., and R. C. Peters, Haddonfield, N. J., assignors to Sun Oil Company, Philadelphia, Pa. Lead lined vessel. 2,592,419, Apr. 8.
Harris, Robert L., and M. Lothrop, Berkeley, assignors to Yuba Manufacturing Company, San Francisco, Calif. Steam engine having a unitary valve actuator. 2,591,933, Apr. 8.
Harrison, Edward E., assignor of one-third to O. H. Cochran and one-third to P. Mathews, Thomaston, Ga. Pulling tool. 2,592,420, Apr. 8.
Harsh, Harold C., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Multilayer photographic color film in which at least one layer contains a mixture of cyan, magenta, and yellow dye image intermediates. 2,592,514, Apr. 8.
Hart, Stephen V., Haddonfield, N. J., assignor to Radio Corporation of America. Electrical time-delay network. 2,591,810, Apr. 8.
Hartford National Bank and Trust Company, The, trustee, assignee: *See*—
Bailey, Christopher E. G.
Broos, Henricus A.
Cluwen, Johannes M.
Hepp, Gerard.
Hugenholtz, Eduard H.
Janssen, Peter J. H.
Lucas, John H.
Mak, Gerrit, and Storm.
Richards, Claude L., and Glaisher.
Slade, Charles E., and Kershaw.
Strutt, Maximiliaan J. O., and Van der Ziel.
Van Hofweegen, Johannes M., and Knol.
Van Overbeek, Adrianus J. W. M., Van Gelder, and Jonker.
Van Weel, Adelbert.
Hartwick, Louis M.: *See*—
Kinney, Selwyne P., and Hartwick.
Hartzell, Lester J., Jr.: *See*—
Klepetko, Ernest, Kaye, and Hartzell.
Hawkinson, Paul E., assignor to Paul E. Hawkinson Company, Minneapolis, Minn. Producing a skid-resistant tread for pneumatic tires. 2,591,934, Apr. 8.
Hawkinson, Paul E., Company, assignee: *See*—
Hawkinson, Paul E.
Hays, Robert F., Jr., Syosset, N. Y., assignor to The Sperry Corporation. Stable reference apparatus. 2,591,697, Apr. 8.
Hegan, Horace J., Coventry, assignor to Courtaulds Limited, London, England. Continuous process for the production of anhydrous Glauber's salt. 2,592,139, Apr. 8.
Heier, Henry C., Kimmswick, Mo. Variable-strength beverage dispenser. 2,592,279, Apr. 8.
Heigl, Cyrus H., South Beloit, Ill., assignor to Adams Corporation, Korn Kurls Division, Beloit, Wis. Combination sealing, perforating, and stamping machine. 2,591,935, Apr. 8.

Heilbron, Ian M., and B. C. L. Weedon, London, E. R. H. Jones, Manchester, B. A. Hems, Northolt, and A. B. A. Jansen, London, assignors to Glaxo Laboratories Limited, Greenford, England. Unsaturated carbinol related to vitamin A and preparing same. 2,591,811, Apr. 8.

Heilmann, Thorbjorn, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Agglomerating finely divided materials. 2,592,421, Apr. 8.

Heininger, Charles R.: *See*—
Hurlbut, James H., and Heininger.

Hems, Benjamin A.: *See*—
Heilbron, Ian M., Weedon, Jones, Hems, and Jansen.

Henderson, Minnis W., Bluefield, W. Va. Folding service tray for automobile glove compartments. 2,592,032, Apr. 8.

Henderson, Porter I., Charlotte, N. C. Carton for making ice-cream sandwiches. 2,591,812, Apr. 8.

Hendrick, Lloyd M., and C. M. Wheeler, Fitchburg, Mass., assignors to General Electric Company, Dynamoelectric machine and control. 2,592,522, Apr. 8.

Hennig, C. Frederick, assignee: *See*—
Hennig, Gustav G.

Hennig, Gustav G., assignor of one-half to C. F. Hennig, Paterson, N. J. Decatizing cylinder. 2,591,813, Apr. 8.

Henry, James E., Dayton, Ohio. Shoran mechanical straight-line computer. 2,591,698, Apr. 8.

Hensley, Lee C., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic emusions containing symmetrical tetranuclear dye salts. 2,592,515, Apr. 8.

Hepp, Gerard, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Transmission network for emphasizing the high-frequencies of applied oscillations. 2,591,936, Apr. 8.

Herbenar, Edward J., Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Connector. 2,592,280, Apr. 8.

Hercules Powder Company, assignee: *See*—
Azorlosa, Julian L.
Vaughan, Charles L. P.
Weisgerber, Cyrus A.

Herlec Corporation, assignee *See*—
Kodama, George T.

Hermann, Thorens, Societe Anonyme, assignee: *See*—
Nicole, Amédée, and Thévenaz.

Herrick, Roswell H., Lorain, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Selective calling system. 2,591,937, Apr. 8.

Hess, Howard V., Beacon, G. B. Arnold, Glenham, N. Y., and M. L. Drabkin, Pittsburgh, Pa., assignors to The Texas Company, New York, N. Y. Vapor phase treatment of combined gasoline and water phases of synthesis product with a basic compound. 2,591,699, Apr. 8.

Heuver, Herbert M.: *See*—
Orlin, William J., Heuver, and Forrester.

Hicks, Burton G., South Easton, Mass. Pocket handkerchief. 2,592,033, Apr. 8.

High, Carl F., Detroit, Mich., assignor, by mesne assignments, to American Bosch Corporation, Springfield, Mass. Fuel injection pump. 2,592,281, Apr. 8.

Hildebrandt, Alexander B., and L. W. Ledgerwood, Jr., Tulsa, Okla., assignors to Standard Oil Development Company. Well logging apparent dip determining apparatus. 2,592,422, Apr. 8.

Hill, Harold: *See*—
Howell, William N., and Hill.

Hill, John W., Palisades, N. Y. Hole locating device. 2,591,814, Apr. 8.

Hilliard, Thomas H., Drummondville, Quebec, Canada, assignor to Celanese Corporation of America. Apparatus for treating fabrics in continuous lengths with liquids. 2,591,815, Apr. 8.

Himsworth, Francis R., and H. Hughes, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited. Cold-setting resinous cements. 2,592,034, Apr. 8.

Hirsch, George B., Providence, R. I., and C. R. Backlin, North, assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Bobbin winder for sewing machines. 2,592,516, Apr. 8.

Hitchings, John B., assignee: *See*—
Weber, Robert W.

Hobby, William H. *See*—
Valiton, Frederick C., and Hobby.

Hodil, Ralph, Toledo, Ohio, assignor to Granite City Steel Company, Inc., Granite City, Ill. Continuous process of preparing and metal coating rolled steel. 2,592,282, Apr. 8.

Hoenshell, Marion S., Seattle, Wash. Adjustable disk garden cultivator. 2,592,423, Apr. 8.

Hohl, George I., East Orange, F. H. Weise, Cedar Grove, G. A. Rist, Newark, and J. M. Rist, East Orange, assignors to Processing Equipment Corporation, Freehold, N. J. Wrapping machine. 2,592,283, Apr. 8.

Holben, Martin M., Ridgewood, and W. L. Weeks, Wyckoff, N. J., assignors to Curtiss-Wright Corporation. Lubrication system. 2,592,140, Apr. 8.

Holdren, Donald R., West Liberty, Ohio. Article arranging apparatus. 2,592,141, Apr. 8.

Holl, Raymond: *See*—
Feilden, Geoffrey B. R., Simons, and Holl.

Holland, Ernest O., and J. B. Smith, assignors to Pye Limited, Cambridge, England. Television test signal generator. 2,591,816, Apr. 8.

Holliday, Ivar M., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Gyroscope control system for dirigible craft. 2,591,938, Apr. 8.

Holm, Erik G., Hagalund, assignor to Lumalampan Aktiebolag, Stockholm, Sweden. Holder device for end-capped electrical discharge tubes provided with starter switches. 2,592,142, Apr. 8.

Holmen, Torleif K., Brooklyn, assignor to Rugcrofters, Inc., New York, N. Y. Carpet tufting and pile cutting device. 2,591,939, Apr. 8.

Holmes, Kenneth C.: *See*—
Bowers, Frank, Joseph, and Holmes.

Holtz, George F., Brooklyn, N. Y., and S. Bernstein, Oakland, Calif. Fishing line washing and drying apparatus. 2,592,143, Apr. 8.

Hook, Donald E.: *See*—
Barry, Arthur J., De Pree, and Hook.

Hopkins, William R., North Wilbraham, assignor to American Bosch Corporation, Springfield, Mass. Controlling combustion of internal-combustion engines. 2,592,284, Apr. 8.

Hospital Furniture, Inc., assignee: *See*—
McLean, Colin C., and Davis.

Hotpoint Inc., assignee: *See*—
McDowell, Walter R.

Houdry Process Corporation, assignee: *See*—
Peavy, Claude C., and Shirk.

Howell, William N., Hale, Liverpool, and H. Hill, Runcorn, England, assignors to Imperial Chemical Industries Limited. Electrolytic production of fluorine. 2,592,144, Apr. 8.

Huff, Floyd A., Mansfield, Ohio. Water closet deodorizer. 2,591,817, Apr. 8.

Huff, Lyman C., Evanston, assignor to Universal Oil Products Company, Chicago, Ill. Vaporizing device. 2,591,818, Apr. 8.

Hugenholtz, Eduard H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Impulse generator. 2,591,940, Apr. 8.

Hughes, Harry: *See*—
Himsworth, Francis R., and Hughes.

Huguenin, Marc, Geneva, Switzerland, assignor to Montres Rolex S. A. (Rolex Watch Co. Ltd.). Calendar timepiece. 2,591,819, Apr. 8.

Hummel, Frederick E., Chicago, Ill. Comb cleaner embodying a casing and spring retracted flexible element. 2,592,145, Apr. 8.

Hurlbut, James H., South Gate, and C. R. Heininger, Stockton, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostatic control device. 2,592,424, Apr. 8.

Hutchison, Miller R., Jr., assignor to Eastman Kodak Company, Rochester, N. Y. Film transport means for motion-picture projectors. 2,592,285, Apr. 8.

Hvid, Rasmus M., Wilmette, assignor to Veed Corp., Chicago, Ill. Dry shaver. 2,592,146, Apr. 8.

Ideal Manufacturing Company, assignee: *See*—
Lowry, Jesse R.

Ikeda, Carol K., Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Codispersions of polytetrafluoroethylene and hydrous oxides. 2,592,147, Apr. 8.

Iler, Ralph K.: *See*—
Goebel, Max T., and Iler.

Imperial Chemical Industries Limited, assignee: *See*—
Himsworth, Francis R., and Hughes.
Howell, William N., and Hill.

Ingalls Stone Company, assignee: *See*—
Berelt, Edwin W.

Ingelsrud, Arne H., Oslo, Norway, assignor to Elektrokemisk A/S. Closed electric furnace. 2,592,517, Apr. 8.

Innerfield, Sydney M., Brooklyn, N. Y. Multicolor press. 2,591,941, Apr. 8.

International Standard Electric Corporation, assignee: *See*—
Deakin, Gerald.
Field, Lester M.
Villemagne, Jean M.

Isaacs, Marcus M., St. Leonards, New South Wales, Australia. Garment tensioning means. 2,592,148, Apr. 8.

Jackson, Donald, assignor to Pye Limited, Cambridge, England. Suspension mounting for the focusing device of cathode-ray tubes. 2,591,820, Apr. 8.

Jackson, Oral K., Montebello, Calif. Plumb bob. 2,592,425, Apr. 8.

Jacobs, Pieter H., Cape Town, Cape Province, Union of South Africa. Spinning toy or display apparatus. 2,592,286, Apr. 8.

Jacobsen, Andrew B., Somerville, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Modulator circuit. 2,591,821, Apr. 8.

Jacobson, Abner: *See*—
Spencer, Arthur M., Jacobson, and Sixt.

Jacobson, Jacob, New York, N. Y. Therapeutic preparation comprising benzyl cinnamate and vitamin A. 2,592,149, Apr. 8.

Jacoby, George, Marquartstein, Germany, assignor of one-twentieth to R. Schubert, Alexandria, Va., and I. Papcay, Newark, N. J. Photoelectric exposure control. 2,592,035, Apr. 8.

Jacolev, Leon, Irvington, N. J., and I. F. German, Jr., Bronx, assignors to The Texas Company, New York, N. Y. Preparation of synthesis gas. 2,591,700, Apr. 8.

Jaern, Albert, and L. Eriksen, Oslo, Norway. Adjustable calk for pneumatic vehicle tires. 2,592,150, Apr. 8.

Jaffe, Hans, assignor to The Brush Development Company, Cleveland, Ohio. Electrical light-transmission controlling arrangement. 2,591,701, Apr. 8.

Jahncke, Albert, Geneva, assignor to Hermann Thorens S. A., Sainte-Croix, Switzerland. Tuning means. 2,592,151, Apr. 8.

Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Latch releasing door handle. 2,591,822, Apr. 8.

James, Clarence R.: *See*—
Edmondson, Jay N., Poulos, and James.

Janas, Walter J., Lewiston, Maine, assignor to United Shoe Machinery Corporation, Flemington, N. J. Shoe machine. 2,591,823, Apr. 8.

Jansen, Alexander B. A.: *See*—
Heilbron, Ian M., Weedon, Jones, Hems, and Jansen.

Janssen, Peter J. H., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Regulated direct voltage power supply. 2,591,942, Apr. 8.

Jeffrey, Max L., Shaker Heights, Ohio. Soldering iron. 2,592,426, Apr. 8.

Jennings, Harry C.: *See*—
Everest, Herbert A., and Jennings.

Jermář, František, Prague, Czechoslovakia. Hydraulic gate or barrage. 2,592,287, Apr. 8.

Johansen, Einar K., Oak Park, assignor to Clearing Machine Corporation, Chicago, Ill. Adjusting mechanism for metal drawing presses. 2,592,152, Apr. 8.

Johnson, Arthur, and J. B. Speakman, Leeds, assignors to Alginate Industries Limited, Maidenhead, England. Textile fabric. 2,592,153, Apr. 8.

Johnson, Arthur, and J. B. Speakman, Leeds, assignors to Alginate Industries Limited, Maidenhead, England. Cellulosic textile fabric. 2,592,154, Apr. 8.

Johnson, Edward A., Taunton, Mass. Cravat holder. 2,592,155, Apr. 8.

Johnson, Edward O., Princeton, N. J., assignor to Radio Corporation of America. Pulse energized gas tube circuit. 2,591,824, Apr. 8.

Johnson, Edward O., and W. M. Webster, Jr., Princeton, N. J., assignors to Radio Corporation of America. Gas tube circuit. 2,591,825, Apr. 8.

Johnson, Ernest W.: *See*—
Church, James M., Johnson, and Ramsden.

Johnson, Otis M., Dallas, Tex. Dental articulator. 2,592,288, Apr. 8.

Johnson, S. C., & Son, Inc., assignee: *See*—
Pressing, Robert W., Lawless, and Pettibone.

Jones, Anna C., executrix: *See*—
Jones, Theodore C.

Jones, Ewart R. H.: *See*—
Heilbron, Ian M., Weedon, Jones, Hems, and Jansen.

Jones, George D., assignor, by mesne assignments, to Reelshav Corporation, Los Angeles, Calif. Ribbon type razor assembly. 2,591,702, Apr. 8.

Jones, Theodore C., deceased, Louisville, Ky., A. C. Jones, executrix, assignor, by mesne assignments, to Electromatic Engineering Company, Inc. Galvanic water correction device. 2,591,826, Apr. 8.

Jonker, Johan L. H.: *See*—
Van Overbeek, Adrianus J. W. M., van Gelder, and Jonker.

Jordan, Wesley A.: *See*—
Wittcoff, Harold, and Jordan.

Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Fluid pressure controlling mechanism. 2,591,827, Apr. 8.

Joseph, Paul F.: *See*—
Bowers, Frank, Joseph, and Holmes.

Joy Manufacturing Company, assignee: *See*—
Osgood, Robert C.

Joyner, William H., Atlanta, Ga. Device for indicating contents of freight cars. 2,592,289, Apr. 8.

Judd, Chester K., Jr., Bristol, assignor to The Fletcher-Terry Company, Forestville, Conn. Glass cutting device. 2,591,828, Apr. 8.

Kaiser, Emil, and J. Svarz, assignors to Armour and Company, Chicago, Ill. Esters of cyclopentanoperhydrophenanthrene-3-malonic acids. 2,592,036, Apr. 8.

Kammer, Frank: *See*—
Weiss, Harry, and Kammer.

Kaserman, John A.: *See*—
Puster, Louis M., and Kaserman.

Kason Hardware Corporation, assignee: *See*—
Groeger, Alfred H.

Katzenmeyer, Edwin B., Akron, and C. P. Krupp, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Inflatable sectional tent. 2,591,829, Apr. 8.

Kaye, Philip de B.: *See*—
Klepetko, Ernest, Kaye, and Hartzell.

Kearsley, Arthur W.: *See*—
Kearsley, Benjamin R., and A. W.

Kearsley, Benjamin R., Ogden, Utah, and A. W. Kearsley, Victor, Idaho. Portable dam. 2,592,290, Apr. 8.

Keeler Brass Company, assignee: *See*—
Jakeway, Gerald V.

Keenan, Thomas F., Albany, N. Y. Shoe holding device. 2,592,156, Apr. 8.

Keesling, Thomas B., Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Air cleaner for spraying machines. 2,592,427, Apr. 8.

Keiser, John, Windsor, Colo. Spring-actuated stud wrench. 2,592,037, Apr. 8.

Keller, Karl H., Gibson Island, Md., assignor to The Miller Company, Meriden, Conn. Package construction. 2,591,703, Apr. 8.

Kelley, William A., assignee: *See*—
Robbins, Bertha and D.

Kellogg, Edward W., Haddonfield, N. J., assignor to Radio Corporation of America. Test film for motion-picture projectors. 2,592,291, Apr. 8.

Kellogg, M. W., Company, The, assignee: *See*—
Solomon, Ernest.

Kelso, James M.: *See*—
Rogers, Philip S., Emmons, Godfrey, and Kelso.

Kelto, Reuben W.: *See*—
Sackett, Loren C., Miller, and Kelto.

Kemp, Jacob D., Richmond, and L. F. Brooke, Berkeley, assignors to California Research Corporation, San Francisco, Calif. Polymerization of propylene with liquid phosphoric acid. 2,592,428, Apr. 8.

Kendall, George C.: *See*—
Wickes, Harvey R., Bintz, Kretschmer, and Kendall.

Kendall, George H., Noroton Heights, Conn. Automatic gauging and assorting device. 2,592,157, Apr. 8.

Kennedy, Bert, Johnstown, N. Y. Glove. 2,591,905, Apr. 8.

Kerkhof, Frederik: *See*—
Cole, Byron M., and Kerkhof.

Kershaw, Arthur: *See*—
Slade, Charles E., and Kershaw.

Kettl, John W.: *See*—
Clement, Anthony J. F., and Kettl.

Kimmel, Raymond T., and J. A. Woodson, Hutchinson, Kans. Target with electrical indicating system. 2,592,429, Apr. 8.

Kimsey, John E., Spokane, Wash. Refrigerated display case. 2,592,038, Apr. 8.

King, Clifford G., Providence, R. I. Dental instrument holder. 2,592,292, Apr. 8.

King, George J., Hewlett, N. Y., assignor to Atlas Powder Company, Wilmington, Del. Sugar crystallization. 2,591,704, Apr. 8.

King, Homer, Orrville, Ohio. Poultry nest. 2,592,430, Apr. 8.

Kinney, S. P., Engineers, Inc., assignee: *See*—
Kinney, Selwyne P., and Hartwick.

Kinney, Selwyne P., Crafton, and L. M. Hartwick, Beaver, assignors to S. P. Kinney Engineers, Inc., Pittsburgh, Pa. Closure and fastening means. 2,592,431, Apr. 8.

Kirby, Herbert D., Hayden Lake, Idaho, and C. F. Krause, Bellevue, Wash.; said Krause assignor to said Kirby. Photographic film magazine. 2,592,158, Apr. 8.

Kirchhof, John: *See*—
Koerner, Ernst C., Ehrhardt, Haigh, and Kirchhof.

Kitselman Brothers, assignee: *See*—
Kitselman, Harry L.

Kitselman, Harry L., assignor to Kitselman Brothers, Muncie, Ind. Helix former. 2,591,943, Apr. 8.

Klebba, Arthur A., A. C. Vine, and W. M. Ewing, Woods Hole, Mass., assignors to the United States of America as represented by the Secretary of the Navy. Tide gauge. 2,592,159, Apr. 8.

Klepetko, Ernest, and P. de B. Kaye, Bauer, and L. J. Hartzell, Jr., Tooele, assignors to Combined Metals Reduction Company, Stockton, Utah. Recovery of resins from coal. 2,591,830, Apr. 8.

Kline, Paul C., H. P. Crook, and A. T. Van Cutsem, Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Corrugation drilling tool. 2,592,432, Apr. 8.

Kline, Richard C., Mount Kisco, N. Y. Carpet tufting machine. 2,591,944, Apr. 8.

Knepper, Kenneth K.: *See*—
Knepper, Lily R., Newton and Knepper.

Knepper, Lily R., J. R. Newton and K. K. Knepper, Royal Oak, Mich. Finger mask. 2,592,293, Apr. 8.

Knol, Kornelis S.: *See*—
Van Hofweegen, Johannes M., and Knol.

Knosp, Robert N., Ludlow, Ky., C. E. Linden, Cincinnati, and F. O. Wetzel, Norwood, assignors to The Fosdick Machine Tool Company, Cincinnati, Ohio. Indicator dial operating mechanism. 2,592,433, Apr. 8.

Knott, Edward B.: *See*—
Davey, Edward P., and Knott.

Knuff, Gilbert B., Cleveland, Ohio. Crayon or the like holder and feeding tube. 2,591,831, Apr. 8.

Kodama, George T., assignor to Herlec Corporation, Milwaukee, Wis. Variable capacitor. 2,591,705, Apr. 8.

Koerner, Ernst C., Woodridge, H. Ehrhardt, Nutley, F. R. Haigh, Passaic, and J. Kirchhof, Clifton, assignors to Botany Mills, Inc., Passaic, N. J. Recovery of protein from wool and other keratinous materials. 2,591,945, Apr. 8.

Kogstrom, Axel W., assignor to O. & S. Bearing Company, Detroit, Mich. Self-lubricating radial and thrust bearing. 2,591,832, Apr. 8.

Kolessar, Andrew G.: *See*—
Erb, George H., Dwyer, and Kolessar.

Korn, Waldemar H., Dubuque, Iowa, assignor to Kornlube Products, Chicago, Ill. Bearing. 2,592,294, Apr. 8.

Kornlube Products, assignee: *See*—
Korn, Waldemar H.

Kothny, Gottdank L., Strafford, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Apparatus for determining the time of descent of instruments within boreholes. 2,592,295, Apr. 8.

Kozacka, Frederick J.: *See*—
Edsall, William S., Swain and Kozacka.

Krasnow, Shelley, Arlington County, Va., assignor to Schlumberger Well Surveying Corporation, Houston, Tex. Radioactive marker. 2,592,434, Apr. 8.

Krause, Charles F.: *See*—
Kirby, Herbert D., and Krause.

Krause, Jack H., and T. B. Tom, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Sweetening high-boiling petroleum distillates. 2,591,946, Apr. 8.

Kreimendahl, Rodney, North Hollywood, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Seal. 2,591,833, Apr. 8.

Kretschmer, Harvey A.: *See*—
Wickes, Harvey R., Bintz, Kretschmer, and Kendall.

Kridel, Donald J.: *See*—
Wiitala, Edwin S., and Kridel.

Kron, Harold O.: *See*—
Ball, Russell C., and Kron.

Krupp, Carroll P.: *See*—
Katzenmeyer, Edwin B., and Krupp.

Kuhn, Frank W.: *See*—
Thomas, Laurence H., and Kuhn.

Kuka, George J., assignor to Lockheed Aircraft Corporation, Burbank, Calif. Retractable rocket launcher. 2,591,834, Apr. 8.

Kunes, John, Chicago, Ill. Bathtub headrest. 2,592,160, Apr. 8.

Kurtis, Alan A.: *See*—
Berggren, Lloyd E., and Kurtis.

Kutik, Louis F., Fair Lawn, N. J. Method of and apparatus for making brushes. 2,592,296, Apr. 8.

Lacombé, Antoine E., New York, N. Y., assignor to Shell Development Company, San Francisco, Calif. Decomposition product deposit reduction. 2,592,435, Apr. 8.

Laetsch, Jean P., Zurich, Switzerland, and P. Litty, Guebwiller, France. Apparatus for examining threads visually for defects. 2,592,039, Apr. 8.

Laguilharre, Pierre R., Enghien-les-Bains, France. Arrangement for atomizing liquids. 2,592,297, Apr. 8.

La Hue, Paul D., Dallas, Tex. Urinal atachment for nursery toilets. 2,592,040, Apr. 8.

Lakeland, John, Toronto, Ontario, Canada. Hair parting device. 2,591,835, Apr. 8.

Lambert, Harry L., East Rochester, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio. True negative total printing mechanism. 2,592,436, Apr. 8.

La Monte, Thomas W., La Habra, Calif. Velocipede horse. 2,592,041, Apr. 8.

Lancaster, R. N., assignee: *See*—
Seely, Otty J.

Landon, Emma V., Sun Valley, Calif. Knitting needle clip. 2,591,836, Apr. 8.

Langerman, Jonas, New York, N. Y. Heating plug. 2,592,042, Apr. 8.

La Pedus, William E., Rockford, Ill. Cloth material spreader. 2,592,437, Apr. 8.

La Plant-Choate Mfg. Co., Inc., assignee: *See*—
Rockwell, Harvey W.

Larson, Earl E., Wadsworth, and C. B. Luther, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y. Air-operated pressure indicating controller. 2,592,043, Apr. 8.

Law, Russell R., Princeton, N. J., assignor to Radio Corporation of America. High-frequency apparatus. 2,591,947, Apr. 8.

Lawless, Grant P.: *See*—
Pressing, Robert W., Lawless, and Pettibone.

Lawrens, Frederich H., Dallas, Tex. Trotline snell fastener and hook shield. 2,592,438, Apr. 8.

Lawson, Birdsall P., assignor to Pilling Chain Company, Providence, R. I. Automatic lock slider for separable fasteners. 2,591,948, Apr. 8.

Lear, Incorporated, assignee: *See*—
Ridgely, Holland F., and Crocker.

Ledgerwood, Leroy W., Jr.: *See*—
Hildebrandt, Alexander B., and Ledgerwood.

Lee Dyeing Co., of Johnstown, Inc., assignee: *See*—
Pannaci, Karl E.

Lee, Paul H., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Method and apparatus for signaling employing polarized lights. 2,591,837, Apr. 8.

Lee, Victor A., Niagara Falls, Ontario, Canada, assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill. Dry cell seal closure. 2,592,439, Apr. 8.

Lehman, Harry A., J. A. and W. W. Bateman, Mineral Wells, Tex. Washer attachment for ice crushers. 2,592,044, Apr. 8.

Lehmann, J. M., Company, Inc., assignee: *See*—
Linden, Gosta R.

Le Mare, Ernest B.: *See*—
Cole, Horace, Green, Le Mare, and Taylor.

Le Moir, Charles L., Vancouver, British Columbia, Canada. Leg rest. 2,592,045, Apr. 8.

Leroy, Robert P., assignor to Compagnie Generale d'Electricite, Paris, France. Wave filter. 2,591,838, Apr. 8.

Leue, Beverly A.: *See*—
Leue, Bruno A. and B. A.

Leue, Bruno A. and B. A., Mount Prospect, Ill. Combination pocket secretary and/or hip pocket wallet. 2,592,046, Apr. 8.

Levenson, Gerald I. P., Wealdstone, England, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic reversal process using high-intensity flash exposure. 2,592,298, Apr. 8.

Lever Brothers Company, assignee: *See*—
Wilson, Arthur D., Oakley and Rourke.

Levy, René L., Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneva, Switzerland. Retractable landing gear for aircraft. 2,591,839, Apr. 8.

Lewis, Morgan J., Philadelphia, Pa. Electric instrument socket. 2,592,299, Apr. 8.

Libby, McNeill & Libby, assignee: *See*—
Grosvenor, Oliver.

Liddicoat, Percill, Niagara on the Lake, assignor to Thompson Products, Limited, St. Catharines, Ontario, Canada. Rock drilling tool. 2,592,440, Apr. 8.

Life Ease Products, Inc., assignee: *See*—
Zimmermann, Karl G.

Liliquist, Torsten O., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Generating electric traction and control system. 2,591,840, Apr. 8.

Limerick, Jack M., Bathurst, New Brunswick, Canada. Removing hemicellulose from wood pulp. 2,592,300, Apr. 8.

Lind, John, assignor of one-half to A. E. Otis, Newberg, Oreg. Clock operated perpetual calendar. 2,592,047, Apr. 8.

Lindberg Engineering Company, assignee: *See*—
Speck, William H.

Lindell, Sigurd I., Chicago, and C. E. Schultheiss, Libertyville, assignors to S & C Electric Company, Chicago, Ill. Fuse housing construction. 2,591,949, Apr. 8.

Lindell, Sigurd I., assignor to S & C Electric Company, Chicago, Ill. Circuit interrupter. 2,591,950, Apr. 8.

Linden, Carl E.: *See*—
Knosp, Robert N., Linden, and Wetzel.

Linden, Gosta R., Nutley, assignor to J. M. Lehmann Company, Inc., Lyndhurst, N. J. Hydraulic roll positioner. 2,592,048, Apr. 8.

Linforth, Robert L., and S. D. Hage, Seattle, Wash., assignors to Boeing Airplane Company. Aircraft heating system. 2,592,049, Apr. 8.

Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Hydrohalogenation of unsaturated conjunct polymers. 2,591,841, Apr. 8.

Linville, Robert G., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymeric 1,4-dicyano-2-butene. 2,592,301, Apr. 8.

Litty, Paul: *See*—
Laetsch, Jean P., and Litty.

Llewellyn, Frederick B., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electron discharge apparatus. 2,591,842, Apr. 8.

Lockhart, Marshall L., assignor to The Compule Corporation, Rutherford, N. J. Plural-compartment admixing hypodermic syringe ampoule for segregated storage of ingredients of liquid medicinal solutions and therapeutic preparations. 2,591,706, Apr. 8.

Lockheed Aircraft Corporation, assignee: *See*—
Kreimendahl, Rodney.
Kuka, George J.
Richolt, Robert R.
Sammons, Herbert F.
Simon, Ell, and Thomas.

Long, John B., Annville, Pa. Mouse or rat trap. 2,592,302, Apr. 8.

Loper, Douglas A.: *See*—
Young, Howard H., and Loper.

Loria, Anthony, P. W. Vittum, and A. Weissberger, assignors to Eastman Kodak Company, Rochester, N. Y. Thio-bis-acylamino pyrazolone couplers for color photography. 2,592,303, Apr. 8.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Company. Apparatus for continuously abrading elongated strands. 2,592,161, Apr. 8.

Lothrop, Marcus: *See*—
Harris, Robert L., and Lothrop.

Louis Allis Company, The, assignee: *See*—
Robinson, Russell I.

Louthan, Clissolde L., Yucaipa, Calif. Bobber for use in casting for fish. 2,592,441, Apr. 8.

Lowe, Donald M., Washington, D. C. Coupling device. 2,591,707, Apr. 8.

Lowry, Jesse R., Des Moines, assignor to Ideal Manufacturing Company, Oskaloosa, Iowa. Reciprocating pump. 2,591,951, Apr. 8.

Loy, John W., Woods Cross, Utah, assignor to Phillips Petroleum Company. Catalytic isomerization of hydrocarbons. 2,591,843, Apr. 8.

Lubatti, Eugenio, Turin, Italy. Electric glass furnace. 2,591,708, Apr. 8.

Lubatti, Eugenio, Turin, Italy. Furnace electrode. 2,591,709, Apr. 8.

Lubeley, Anthony J., assignor to Anheuser-Busch, Inc., St. Louis, Mo. Fluid proportioning device. 2,592,304, Apr. 8.

Lucas, John H., Salfords, near Redhill, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Phase-shift circuit for grid-controlled gas discharge tubes. 2,591,952, Apr. 8.

Luccous, John C.: *See*—
Otis, Herbert C., and Luccous.

Luce Manufacturing Company, assignee: *See*—
Luce, Richard W.

Luce, Richard W., assignee: *See*—
Engstrom, Henry O.

Luce, Richard W., Southport, Conn., assignor to Luce Manufacturing Company, Groton, Vt. Salt shaker arrangement with desiccant container. 2,592,162, Apr. 8.

Lumalampan Aktiebolag, assignee: *See*—
Holm, Erik G.

Luther, Charles B.: *See*—
Larson, Earl E., and Luther.

MacCallum, Alan M.: *See*—
Noxon, Paul A., MacCallum, and Bennett.

MacDonald, Robert N., New Castle, assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Modification of synthetic alpha-amino acid polymers by means of N-substituted alpha-amino acid N-carboanhydrides. 2,592,446, Apr. 8.

MacDonald, Robert N., New Castle, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Initiation by ammonia or amines of amino acid N-carboanhydride condensation polymerization. 2,592,447, Apr. 8.

MacLean, Thomas T., assignor to Anglo-Iranian Oil Company Limited, London, England. Face mask for protection against dust and the like. 2,591,953, Apr. 8.

Macripo, Peter D., Allentown, Pa. Strip holder. 2,591,844, Apr. 8.

Madden, Sydney W., Chicago, Ill. Audible railroad crossing warning signal. 2,592,163, Apr. 8.

Madsen, Arild C., Aberdeen, S. Dak. Spinning sounding toy. 2,591,954, Apr. 8.

Magnani, Alessandro, Broni, Italy. Apparatus for making fibrous cement sheet material. 2,592,518, Apr. 8.

Magoon, Osborn P., Alameda, Calif. Paintbrush. 2,591,845, Apr. 8.

Majneri, Ludwig A., Grosse Pointe, assignor to The Warner Aircraft Corporation, Detroit, Mich. Power valve assembly. 2,592,442, Apr. 8.

Mak, Gerrit, Sydney, New South Wales, Australia, and A. W. Storm, Eindhoven, Netherlands, assignors to Hartford National Bank & Trust Company, Hartford, Conn., as trustee. Circuit arrangement for the stabilization of alternating current voltages. 2,591,955, Apr. 8.

Malkan, William A., Oakwood Heights, N. Y. Ball-actuated racing game device. 2,591,956, Apr. 8.

Malkan, William A., New York, N. Y. Ball-actuated racing game device. 2,591,957, Apr. 8.

Malm, Carl J., and L. J. Tanghe, assignors to Eastman Kodak Company, Rochester, N. Y. Lowering the viscosity of hydrolyzed cellulose esters and product. 2,592,305, Apr. 8.

Mann, Alfred K., New York, N. Y., L. M. Mott-Smith, Houston, Tex., and L. R. Quarles, Charlottesville, Va., assignors to the United States of America as represented by the Secretary of the Navy. Parallax corrector for use in gun control. 2,591,846, Apr. 8.

Martin, Glenn L., Company, The, assignee: *See*—
Kline, Paul C., Crook, and Van Cutsem.

Martin, Homer Z.: *See*—
Barr, Frank T., and Martin.

Marvel, Carl S., Urbana, Ill., and R. E. Miegel, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Alkyl esters of aminocarbothiolic acids. 2,592,443, Apr. 8.

Masini, Louis, Highwood, Ill. Tool for cutting circular holes. 2,591,847, Apr. 8.

Matelena, John J., Trenton, N. J. Inflatable aerial projection display device. 2,592,444, Apr. 8.

Mathews, Perry, assignee: *See*—
Harrison, Edward E.

Mathieson Chemical Corporation, assignee: *See*—
Woodward, Eric R.

Matthews, William O., assignee: *See*—
Oliver, Paul M.

Maxam, Allen B., Burbank, Calif. Model airplane wheel structure. 2,592,164, Apr. 8.

Maze, Perry V., Rulo, Nebr. Fishing pole holder. 2,592,306, Apr. 8.

McCarthy, Severus E., Sitkum, Oreg. Fish lure. 2,592,445, Apr. 8.

McCharen, Roy L., Borger, Tex. Outboard motor carrier for automobile bumpers. 2,592,050, Apr. 8.

McClean, Herbert G., La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich. Power generating locomotive. 2,591,848, Apr. 8.

McCleary, Rush F., Beacon, N. Y., and L. W. Devaney, Waco, Tex., assignors to The Texas Company, New York, N. Y. Production of fused cyclic thiophene compounds. 2,591,710, Apr. 8.

McClees, Ernest L., Stockton, Calif. Antikicking device for cows. 2,591,958, Apr. 8.

McDermott, Julian A., Elmhurst, N. Y. Bulb changer. 2,592,165, Apr. 8.

McDowell, Walter R., Western Springs, Ill., assignor to Hotpoint Inc. Heating circuit control for electric appliances. 2,591,849, Apr. 8.

McElhinney, Thomas R., and T. D. Woodruff, Lockport, assignors to Valite Corporation, New Orleans, La. Composition of matter for making molded phonograph records. 2,592,051, Apr. 8.

McGah, William J., trustee, assignee: *See*—
Erwood, Joseph.

McGowan, Roger G., Youngstown, Ohio. Wheel truck or dolly. 2,592,307, Apr. 8.

McKenna, John C., Jr., Madison, Wis. Planting. 2,592,052, Apr. 8.

McLean, Colin C., and S. A. Davis, assignors to Hospital Furniture, Inc., Chicago, Ill. Safety bed. 2,592,166, Apr. 8.

McMenimen, William V., East Orange, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Spud method of installing oil well drilling bases. 2,592,448, Apr. 8.

McRae, Fred W., Los Angeles, Calif. Quick opening valve. 2,591,959, Apr. 8.

Meacham, Larned A., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Nonlinear pulse code modulation system. 2,592,308, Apr. 8.

Mega Corporation, assignee: *See*—
Seaman, Richard H.

Megla, John A., Youngstown, Ohio. Hose holding clip. 2,592,053, Apr. 8.

Meier, Donald R., Erie, Pa., assignor to General Electric Company. Flexible coupling. 2,592,309, Apr. 8.

Mellor Bromley and Company Limited, assignee: *See*—
Shortland, Arthur.

Merit Engineering, Inc., assignee: *See*—
Stevenson, Robert.

Mertz, Fred A., and R. S. Walker, assignors to Traylor Engineering & Manufacturing Company, Allentown, Pa. Barking drum. 2,592,054, Apr. 8.

Metal & Thermit Corporation, assignee: *See*—
Church, James M., Johnson, and Ramsden.

Meyer, A. F., Mfg. Co., assignee: *See*—
Getz, Benjamin E.

Meyer, Lester W. A., and W. M. Gearhart, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Polystyrene plastics containing resorcinol monobenzoate. 2,592,310, Apr. 8.

Meyer, Lester W. A., and W. M. Gearhart, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y. Polyvinyl chloride plastics containing resorcinol monobenzoate. 2,592,311, Apr. 8.

Miegel, Ralph E.: *See*—
Marvel, Carl S., and Miegel.

Miessmer, Emil: *See*—
Bucknell, William H., and Miessmer.

Milburn, Robert, London, England, assignor, by mesne assignments, to General Register Corporation, Long Island City, N. Y. Electric impulse collecting and registering installation. 2,592,312, Apr. 8.

Milla, Alford J., Fresno, Calif. Agricultural implement. 2,591,851, Apr. 8.

Miller Company, The, assignee: *See*—
Keller, Karl H.

Miller, Jack C., assignor to Everest & Jennings, Inc., Los Angeles, Calif. Removable footrest for wheel chairs. 2,592,449, Apr. 8.

Miller, John R.: *See*—
Sackett, Loren C., Miller, and Kelto.

Miller, Sheldon M., Lakewood, Ohio, assignor to Curtiss-Wright Corporation. Aircraft gun mount. 2,591,960, Apr. 8.

Miner, W. H., Inc., assignee: *See*—
Dath, George E.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Stone, Wayne A.
Wannamaker, William H., Jr., and Eckman.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Reid, Thomas S.

Mitchell, Amelia E. M., Ponchatoula, La. Bedpan. 2,591,850, Apr. 8.

Mjelva, Ingvald, Seattle, Wash. Lawn edger. 2,592,450, Apr. 8.

Monaghan, James, Bournemouth West, England. Toilet seat sanitation device. 2,592,167, Apr. 8.

Monahan, Fred A., assignor to Morris Farm Machinery Company, Detroit, Mich. Flexible shaft. 2,592,055, Apr. 8.

Montres Rolex S. A. (Rolex Watch Co. Ltd.), assignee: *See*—
Huguenin, Marc.

Moore, Donald C., Okmulgee, Okla. Reversible plow. 2,591,711, Apr. 8.

Moore, Raymond P., Jr., Haddonfield, N. J., and E. Eberhard, Phoenix, Ariz., assignors to Radio Corporation of America. Transistor ring counter. 2,591,961, Apr. 8.

Moore, Richard S., Dallas, Tex. Window screen hook. 2,592,452, Apr. 8.

Moore, Robert J., and A. Wachter, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Vapor phase corrosion inhibition. 2,592,451, Apr. 8.

Morey, William L., Melrose, and R. A. Taylor, Newburyport, Mass. Ship maneuvering and battle tactics trainer. 2,591,715, Apr. 8.

Morgan, Adolph R., Princeton, N. J., assignor to Radio Corporation of America. Signal volume varying system. 2,592,313, Apr. 8.

Morgan, Jerome P., Maplewood, and J. A. Patterson, Beverly, N. J., assignors to Standard Oil Development Company. Temperature control of adsorption systems. 2,592,453, Apr. 8.

Morrell, Charles E., Westfield, N. J., and N. C. Robertson, Corpus Christi, Tex., assignors to Standard Oil Development Company. Extractive distillation of close-boiling organic compounds from their liquid mixtures. 2,591,712, Apr. 8.

Morrel, Charles E., Westfield, C. S. Carlson, Elizabeth, and P. V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company. Extractive distillation of alcohol-containing mixtures. 2,591,713, Apr. 8.

Morrell, Charles E., Westfield, N. J., assignor to Standard Oil Development Company. Separation of close-boiling oxygenated compounds from their liquid mixtures. 2,591,714, Apr. 8.

Morris, Edgar A.: *See*—
Morris, Edwin A. and Edgar A.

Morris, Edwin A., Hutchinson, and Edgar A. Morris, Fredonia, Kans. Hydraulic jack for handling rod strings or the like in wells. 2,592,168, Apr. 8.

Morris Farm Machinery Company, assignee: *See*—
Monahan, Fred A.

Morrison, John O., Chatham, N. J., and B. H. Perkins, Brooklyn, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of iron blue pigments. 2,592,169, Apr. 8.

Morton, Eldred O., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Cleaning apparatus. 2,592,314, Apr. 8.

Mosley, Clifton E., Jackson, Miss. Universal electric fixture hanger. 2,592,315, Apr. 8.

Moss, Earl C., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Gauge for measuring curved surfaces. 2,592,316, Apr. 8.

Mosse, Pierre, Lyon, assignor to Societe Rhodiaceta, Paris, France. Plastic compositions of acrylonitrile polymers. 2,592,317, Apr. 8.

Mott-Smith, Lewis M.: *See*—
Mann, Alfred K., Mott-Smith, and Quarles.

Mowat, John H., Pearl River, and C. W. Waller, Nanuet, assignors to American Cyanamid Company, New York, N. Y. Benzoylpolyglutamic acid amides and preparation of the same. 2,592,454, Apr. 8.

Muecke, Edward, Linden, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Thread-cone support for sewing machines. 2,592,318, Apr. 8.

Mueller, Ervin H., Grosse Pointe, Mich. Valve with adjustable flow control. 2,592,056, Apr. 8.

Mueller, Reinhold H., Jefferson City, and G. W. Fossieck, University City, Mo. Tobacco smoking pipe. 2,592,455, Apr. 8.

Muller, Ferdinand, Elmhurst, N. Y. Brewer's cereal cooker. 2,592,170, Apr. 8.

Munson, Alonzo R., Sr., Shreveport, La. Quick-change bait casting fish lure. 2,592,171, Apr. 8.

Murphey, Odas, Pomona, Calif. Scaffold jack. 2,592,057, Apr. 8.

Murphy, Arthur A., Palatka, Fla., dedicated to the free use of the People in the territory of the United States. Bark hack and attachment for holding a spray bottle. 2,591,716, Apr. 8.

Murphy, Charles T., assignee: *See*—
Barrett, Arthur J.

Murray, William, Leamington Spa, England. Automatic control for electric heaters and other purposes. 2,591,852, Apr. 8.

Muskat, Irving E., Plainfield, N. J., and F. Strain, Norton Center, Ohio, assignors, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Polyvinyl alcohol ester of an acid ester of carbonic acid and an unsaturated alcohol. 2,592,058, Apr. 8.

Nachbar, Benjamin, Hewlett, N. Y. Pocket atomizer. 2,591,962, Apr. 8.

Nadeau, Gale F., and A. M. Glasoe, assignors to Eastman Kodak Company, Rochester, N. Y. Casting apparatus for film support or sheeting. 2,592,319, Apr. 8.

Nardone, Romeo M., Teaneck, assignor to Bendix Aviation Corporation, Teterboro, N. J. Torque limiting means for engine starters and the like. 2,592,320, Apr. 8.

Nash-Kelvinator Corporation, assignee: *See*—
Frohnapel, Alvah V.

Nast, Paul H., West Springfield, Mass., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Valve for percussive tools. 2,591,853, Apr. 8.

National Casein Company, assignee: *See*—
Bergey, Elmer E.

National Cash Register Company, The, assignee: *See*—
Lambert, Harry L.

National Electric Instrument Company, Inc., assignee: *See*—
Rubens, Harry S., and Suwa.

National Lead Company, assignee: *See*—
Souther, Robert E., Jr.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Bowen, Dwain B.
Jacobsen, Andrew B.
Klebba, Arthur A., Vine, and Ewing.
Lee, Paul H.
Mann, Alfred K., Mott-Smith, and Quarles.

Neapco Products Inc., assignee: *See*—
Page, Oswald V.

Nederostek, Edward J., Cementon, Pa. Foldable gambrel. 2,592,059, Apr. 8.

Neel, Louis, Grenoble, assignor to Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France. Manufacture of agglomerable iron powder. 2,592,321, Apr. 8.

Nellis, Adin A., Jr., Norwood, Pa., assignor to American Viscose Corporation, Wilmington, Del. Knot. 2,591,854, Apr. 8.

Nerad, Anthony J., Alplaus, N. Y., assignor to General Electric Company. Rocket motor pumped supersonic wind tunnel. 2,592,322, Apr. 8.

Nergaard, Leon S., Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device and circuit. 2,591,963, Apr. 8.

Nester, Patrick A.: *See*—
Rounds, Comer A., and Nester.

Newton, Joseph R.: *See*—
Knepper, Lily R., Newton, and Knepper.

Nicholson, Jerry E., Canton, Ohio. Chewing gum dispenser. 2,591,855, Apr. 8.

Nicole, Amédée, Sainte Croix, and L. Thévenaz, Les Rasses, near Sainte Croix, assignors to Hermann Thorens Societe Anonyme, Sainte Croix, Switzerland. Automatic record changing talking machine. 2,592,323, Apr. 8.

Niehouse, Oliver L.: *See*—
Wehrle, Joseph J., Niehouse, and Burtle.

Nims, Paul T.: *See*—
Borden, David M., and Nims.

Nippert, Paul W., Columbus, Ohio. Manufacturing commutators. 2,592,172, Apr. 8.

Non-Ferrous Die Casting Company Limited, The, assignee: *See*—
Robertson, Neil D. G., and Browse.

Norsk Hydro-Elektrisk Kvaelstofaktieselskab, assignee: *See*—
Skogseid, Anders.

North American Aviation, Inc., assignee: *See*—
Fairbanks, Avard F.

Noxon, Paul A., Tenafly, A. M. MacCallum, Maywood, N. J., and A. Bennett, Bronx, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J. Automatic control of mobile craft. 2,592,173, Apr. 8.

Noyack, Edward: *See*—
Peterson, Gunnard P., and Noyack.

Nudelman, Eoina, Chicago, Ill. Children's domestic utensil set. 2,592,456, Apr. 8.

O. & S. Bearing Company, assignee: *See*—
Kogstrom, Axel W.

Oakley, Henry B.: *See*—
Wilson, Arthur D., Oakley, and Rourke.

O'Connell, Edmund F., Westmoreland Hills, Md. Ventilating apparatus. 2,592,174, Apr. 8.

O'Connor, Robert J.: *See*—
Emerson, Howard J., O'Connor, and Emery.

Office National d'Etudes et de Recherches Aeronautiques, assignee: *See*—
Perilhou, Pierre A.

Olin Industries, Inc., assignee: *See*—
Wehrle, Joseph J., Niehouse, and Burtle.

Oliver, Bernard M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Pulse echo distance indicator. 2,591,856, Apr. 8.

Oliver, Paul E., assignee: *See*—
Oliver, Paul M.

Oliver, Paul M., East Point, assignor of one-third to W. O. Matthews, Atlanta, Ga., and one-third to P. E. Oliver, Knoxville, Tenn. Garbage loading assembly for trucks. 2,592,324, Apr. 8.

Olson, Elden H.: *See*—
Bynum, George T., Olson, and Wiegand.

Onsrud Machine Works Inc., assignee: *See*—
Rohrer, Karl.

Orkin, Bernard A., Philadelphia, Pa., assignor to Socony-Vacuum Oil Company, Incorporated. Mixed thio, oxy silanes. 2,592,175, Apr. 8.

Orlin, William J., Hilton Village, Va., H. M. Heuver, Dayton, Ohio, and R. E. Forrester, Flint, Mich. Apparatus for indicating air speed in terms of the local speed of sound. 2,592,176, Apr. 8.

Osgood, Robert C., Claremont, N. H., assignor to Joy Manufacturing Company. Adjustable stop and locking device for shovel loaders. 2,592,457, Apr. 8.

O'Shea, John E., Long Beach, assignor to Arlington Sheet Metal Corporation, Los Angeles, Calif. Wheelbarrow. 2,591,857, Apr. 8.

Ostendorf, Peter, Godesberg, Germany. Double walled mold for casting long ingots. 2,591,858, Apr. 8.

Otis, A. E., assignee: *See*—
Lind, John.

Otis, Herbert C., Dallas, Tex. Gripping device. 2,591,859, Apr. 8.

Otis, Herbert C., and J. C. Luccous, Dallas, Tex., said Luccous assignor to said Otis. Well flow regulating apparatus. 2,592,325, Apr. 8.

Otis, Louis W., Seattle, Wash. Child's swing. 2,592,177, Apr. 8.

Oulianoff, George, Rimington, near Clitheroe, assignor to Rolls-Royce Limited, Derby, England. Mounting of combustion chambers in jet-propulsion and gas-turbine power-units. 2,592,060, Apr. 8.

Owens, David C., Alden, Iowa. Conveyer belt supporting means. 2,591,860, Apr. 8.

Oxford, Alan J. H., Christchurch, England. Communication system employing pulse code modulation. 2,592,061, Apr. 8.

Page, Irving H., Washington, D. C. Variable capacitor. 2,591,717, Apr. 8.

Page, Oswald V., Pottstown, Pa., assignor, by mesne assignments, to Neapco Products Inc. Automatic brake adjusting means. 2,592,326, Apr. 8.

Palazzo, Louis, New York, N. Y. Bearing for transmission mechanism. 2,592,178, Apr. 8.

Pannaci, Karl E., Gloversville, assignor to Lee Dyeing Co., of Johnstown, Inc., Johnstown, N. Y. Method and apparatus for the continuous setting of knitted fabrics formed of thermoplastic material. 2,591,861, Apr. 8.

Papcsy, Irene, assignee: *See*—
Jacoby, George.

Parker Rust-Proof Company, assignee: *See*—
Thompson, John S.

Parsegian, Vozcan L., and S. Swedlow, New York, N. Y., assignors, by mesne assignments, to Weston Electrical Instrument Corporation, Newark, N. J. Recording and controlling system. 2,592,179, Apr. 8.

Parsons, John B., Maumee, Ohio. Hydraulically operated regulator mechanism for vehicle windows or the like utilizing engine starter motor. 2,592,180, Apr. 8.

Parthemore, Jacob A., Saltsburg, Pa. Sectional inner tube. 2,592,181, Apr. 8.

Patterson, John A.: *See*—
Morgan, Jerome P., and Patterson.

Paul, Edwin R., Washington, D. C. Spark plug. 2,591,718, Apr. 8.

Pawelsky, Vernon R., and E. R. Rack, Milwaukee, Wis., assignors to A. P. Controls Corporation. Safety control. 2,592,327, Apr. 8.

Peavy, Claude C., Philadelphia, Pa., and R. M. Shirk, Wilmington, Del., assignors to Houdry Process Corporation, Philadelphia, Pa. Catalyst regeneration apparatus. 2,591,719, Apr. 8.

Pedigo, Arthur J., Richmond, Va. Refrigerator. 2,591,862, Apr. 8.

People in the Territory of the United States, Dedicated to the free use of the, assignee: *See*—
Murphy, Arthur A.

Pepin, William, Beebe, Quebec, and J. A. Rodrigue, Stanstead, Quebec, Canada. Ski binding. 2,592,458, Apr. 8.

Perfection Stove Company, assignee: *See*—
Dahlstrom, John A.

Perilhou, Pierre A., Clamart, assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France. Radio system for distance measurement. 2,592,459, Apr. 8.

Perkins, Benjamin H.: *See*—
Morrison, John O., and Perkins.

Perkins, Layton E., Milwaukee, Wis. Retriever for submerged articles. 2,592,460, Apr. 8.

Perkins, Layton E., and G. C. Gettelman, Milwaukee, Wis.; said Gettelman assignor to said Perkins. Aircraft crash marker. 2,592,461, Apr. 8.

Perry, Landis H., Glendale, Calif. Mixing valve. 2,592,062, Apr. 8.

Perry, Nick, and S. Schultz, Chicago Heights, Ill. Onion harvesting machine. 2,592,328, Apr. 8.

Perry, Sylvester J., Cleveland, Ohio. Combination shaker for condiments. 2,591,863, Apr. 8.

Persyn, Charles L., Jr., Associated, assignor to Tide Water Associated Oil Company, San Francisco, Calif. Acid analyzer and controller. 2,592,063, Apr. 8.

Perugia, André, Paris, France, assignor, by mesne assignments, to Anper, Inc., New York, N. Y. Shoe with elastic back and added fastening means. 2,592,182, Apr. 8.

Peter, Leslie H., and E. A. Sheppard, King's Cross, London, assignors to Westinghouse Brake and Signal Company Limited, London, England. Line diagram panel. 2,591,864, Apr. 8.

Peter, Leslie H., and E. A. Sheppard, King's Cross, London, assignors to Westinghouse Brake and Signal Company, Limited, London, England. Mimic diagram panel for railway and other indication systems. 2,591,865, Apr. 8.

Peters, Ralph C.: *See*—
Harper, James I., Shuman, and Peters.

Peterson, C. Lynn, assignor to Peterson Filters and Engineering Co., Salt Lake City, Utah. Rotary leaf filter unit. 2,591,720, Apr. 8.

Peterson, Carl G., Co., assignee: *See*—
Aijala, Sulo.

Peterson Filters and Engineering Co., assignee: *See*—
Peterson, C. Lynn.

Peterson, Gunnard P., Naugatuck, and E. Noyack, Seymour, assignors to The Risdon Manufacturing Company, Naugatuck, Conn. Holder for sticks. 2,592,064, Apr. 8.

Peterson, Gunnard P., Naugatuck, and E. Noyack, Seymour, assignors to The Risdon Manufacturing Company, Naugatuck, Conn. Holder for sticks. 2,592,183, Apr. 8.

Petri, Albert L., assignor to Petri Wine Company, San Francisco, Calif. Cigar-making machine. 2,592,065, Apr. 8.

Petri Wine Company, assignee: *See*—
Petri, Albert L.

Pettibone, Bradley J.: *See*—
Pressing, Robert W., Lawless, and Pettibone.

Philadelphia Gear Works, Inc., assignee: *See*—
Ball, Russell C., and Kron.

Philips Laboratories, Inc., assignee: *See*—
Cole, Byron M., and Kerkhof.

Phillips Petroleum Company, assignee: *See*—
Eddy, William R., and St. Clair.
Loy, John W.
Warner, Paul F.

Phillips, Stanley H., Stratford, assignor, to The Warner Brothers Company, Bridgeport, Conn. Machine for cutting, processing, and/or seaming fabric or like sections, and product thereof. 2,592,463, Apr. 8.

Phipard, Harvey F., Jr., South Dartmouth, assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass. Recessed head fastener. 2,592,462, Apr. 8.

Phyl, Joseph, Fanwood, N. J., assignor to Research Corporation, New York, N. Y. Electrical precipitator. 2,592,508, Apr. 8.

Picard, Maxime F. B., and M. Schlumberger, assignors to Societe de Prospection Electrique Procedes Schlumberger, Paris, France. Optical apparatus for measuring by deflection. 2,592,329, Apr. 8.

Pilkington Brothers Limited, assignee: *See*—
Cole, Horace, Green, Le Mare, and Taylor.

Pilling Chain Company, assignee: *See*—
Lawson, Birdsall P.

Plank, Norris, East Chicago, Ind., assignor to Shell Development Company, San Francisco, Calif. Continuous proportional sampler. 2,592,464, Apr. 8.

Pluck, John E., Rotherham, England. Furnace roof or arch. 2,592,184, Apr. 8.

Plymold Corporation, assignee: *See*—
Goldman, Paul R., and Alt.

Polymerisable Products Limited, assignee: *See*—
Weizmann, Charles.

Pont, Henri M., The Hague, Netherlands. Roof. 2,592,465, Apr. 8.

Pope, Richard R., Sylacauga, Ala., assignor to Avondale Mills. Condenser for long draft spinning. 2,591,866, Apr. 8.

Popper, Charles: *See*—
Wilson, Harland D., and Popper.

Porter, Charles B. A., Preston, Yeovil, assignor to H. S. Hallewell, Hayes, Middlesex, England. Forming means for profile grinding wheels. 2,591,964, Apr. 8.

Postlewaite, William R., Menlo Park, assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif. Turbodrill thrust balancing apparatus. 2,592,519, Apr. 8.

Poulos, Harry: *See*
Edmondson, Jay N., Poulos and James.

Poulsen, A. E., & Company, assignee: *See*—
Poulsen, Alfred E.

Poulsen, Alfred E., assignor to A. E. Poulsen & Company, Los Angeles, Calif. Machine for processing materials. 2,591,721, Apr. 8.

Power Jets (Research & Development) Limited, assignee: *See*—
Felden, Geoffrey B. R., Simons, and Holl.

Pratt, Arthur J., assignor to A & J Machine Engineering Co., Inc., Long Beach, Calif. Memo pad attachment for telephones. 2,592,066, Apr. 8.

Premo Pharmaceutical Laboratories, Inc., assignee: *See*—
Blackman, Theodore A.

Pressing, Robert W., G. P. Lawless, and B. J. Pettibone, assignors to S. C. Johnson & Son, Inc., Racine, Wis. Preparation of paste wax. 2,592,466, Apr. 8.

Prestige Products, Inc., assignee: *See*—
Stair, Carlyle B.

Priest, Jesse A., assignee: *See*—
Seegers, Arthur J. and L. G.

Processing Equipment Corporation, assignee: *See*—
Hohl, George I., Weise, Rist, and Rist.

Proctor Electric Company, assignee: *See*—
Snyder, Paul C.

Prokop, Frank J.: *See*—
Du Mais, Leo J., and Prokop.

Prower, Charles W., East Molesey, and T. G. Guppy, Hanwell, London, assignors to Blackburn and General Aircraft Limited, Brough, England. Detachable pilot's cockpit for aircraft. 2,591,867, Apr. 8.

Punch Engineering Pty. Limited, assignee: *See*—
Skillman, Thomas S.

Puster, Louis M., and J. A. Kaserman, Knoxville, Tenn., assignors to Robertshaw-Fulton Controls Company. Machine for sorting compressible elements. 2,591,868, Apr. 8.

Pye Limited, assignee: *See*—
Holland, Ernest O., and Smith, Jackson, Donald.

Quam, James P., assignor to Quam-Nichols Company, Chicago, Ill. Focusing device. 2,592,185, Apr. 8.

Quam-Nichols Company, assignee: *See*—
Quam, James P.

Quarles, Lawrence R.: *See*—
Mann, Alfred K., Mott-Smith, and Quarles.

Quartullo, Orpheus F., and H. Baade, Cleveland, Ohio, assignors, by mesne assignments, to Westinghouse Electric Corporation. Washing machine. 2,592,330, Apr. 8.

Quick, Jean H.: *See*—
Wilson, Harland D., and Quick.

Quimby, Buzz C., Portland, Oreg. Electrical bingo game board. 2,591,869, Apr. 8.

Rack, Edward R.: *See*—
Pawelsky, Vernon R., and Rack.

Radio Corporation of America, assignee: *See*—
Donley, Hugh L.
Farnett, Horace E.
Ferris, Warren R.
Grosdoff, Igor E.
Hansell, Clarence W.
Hart, Stephen V.
Johnson, Edward O.
Johnson, Edward O., and Webster.
Kellogg, Edward W.
Law, Russell R.
Moore, Raymond P., Jr., and Eberhard.
Morgan, Adolph R.
Nergaard, Leon S.
Sproull, Robert L.
Stinchfield, John M.
Trevor, Bertram.
Webster, William M., Jr.

Ramsden, Hugh E.: *See*—
Church, James M., Johnson, and Ramsden.

Ramsel, Charles A.: *See*—
Risk, Norman E., Ramsel, and Williams.

Ratliff, Rudolph E., Los Angeles, Calif. Hairpin holder. 2,592,186, Apr. 8.

Rawlings, Arthur L., assignor to The United States Time Corporation, Waterbury, Conn. Stem winding and setting mechanism. 2,592,067, Apr. 8.

Ray, Frank A., Fairhaven, Mass. Trawl net towing and hauling equipment. 2,592,331, Apr. 8.

Ray, William A., North Hollywood, Calif., assignor to General Controls Co. Oil burner safety control system, including a flame responsive thermocouple structure. 2,592,068, Apr. 8.

Raymond Concrete Pile Company, assignee: *See*—
McMenimen, William V.

Read, Chester L.: *See*—
Rex, Walter A., and Read.

Reale, Lucio, New York, N. Y. Preparing concentrated banana products. 2,592,332, Apr. 8.

Reelshav Corporation, assignee: *See*—
Jones, George D.

Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Oven door and hinge structure. 2,592,333, Apr. 8.

Reeves, Herbert M., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Recipe card holder for stoves. 2,592,467, Apr. 8.

Reid, Thomas S., New Canada Township, Ramsey County, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Fluorocarbon vinyl esters and polymers. 2,592,069, Apr. 8.

Reiffen, Ernst A., Kassel-Wilhelmshohe, Germany. Mixing machine. 2,592,334, Apr. 8.

Rejeski, William E., assignor to The Wiremold Company, Hartford, Conn. Collapsible tubing. 2,592,335, Apr. 8.

Rejeski, William E., assignor to The Wiremold Company, Hartford, Conn. Machine and method for forming collapsible tubing. 2,592,336, Apr. 8.

Research Corporation, assignee: *See*—
Phyl, Joseph.

Research Engineering & Manufacturing, Inc., assignee: *See*—
Phipard, Harvey F., Jr.

Rex, Walter A., and C. L. Read, Westfield, N. J., assignors to Standard Oil Development Company. Manufacture of cement. 2,592,468, Apr. 8.

Reynolds, Blake: *See*—
Eastman, Du Bois, Barber, and Reynolds.

Rice, Harold W., Los Angeles, Calif., assignor to Robertshaw-Fulton Controls Company. Control device for gaseous fuel burners. 2,591,870, Apr. 8.

Richards, Claude L., and E. J. Glaisher, London, England, assignors to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Multiband resonant system wherein each band is step-wise tunable. 2,591,965, Apr. 8.

Richolt, Robert R., Tujunga, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Power booster linkage providing pilot's feel. 2,591,871, Apr. 8.

Rider, George H., Valley Stream, N. Y. Drive shaft means for colloid mills. 2,591,966, Apr. 8.

Rider, Harry N., assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio. Automatic sprinkler. 2,591,872, Apr. 8.

Ridgely, Holland F., Grand Island, N. Y., and F. A. Crocker, Jenison, assignors to Lear, Incorporated, Grand Rapids, Mich. Antifriction device for planetary transmissions. 2,591,967, Apr. 8.

Risdon Manufacturing Company, The, assignee: *See*—
Peterson, Gunnard P., and Noyack.

Risk, Norman E., C. A. Ramsel, and R. C. Williams, assignors to Caterpillar Tractor Co., Peoria, Ill. Over center cam engaged clutch. 2,591,873, Apr. 8.

Rist, Gottlieb A.: *See*—
Hohl, George I., Weise, Rist, and Rist.

Rist, John M.: *See*—
Hohl, George I., Weise, Rist, and Rist.

Ritchie, Clayton F., Chicago, Ill. Bubble-forming writing instrument. 2,591,874, Apr. 8.

Robbins, Bertha and D., deceased, Portland, Oreg., said B. Robbins, executrix of said D. Robbins, assignor to W. A. Kelley, Portland, Oreg. Retainer for children. 2,591,875, Apr. 8.

Robbins, David: *See*—
Robbins, Bertha and D.

Robert-Charrue, Fritz-André, Le Locle, assignor to Ebauches S. A., Neuchatel, Switzerland. Dead-second watch mechanism. 2,591,876, Apr. 8.

Robertshaw-Fulton Controls Company, assignee: *See*—
Garner, Russell F.
Hurlbut, James H., and Heininger.
Puster, Louis M., and Kaserman.
Rice, Harold W.
Weber, Victor, and Garner.

Robertson, Nat C.: *See*—
Morrell, Charles E., and Robertson.

Robertson, Nat C., and R. H. Buchanan, Corpus Christi, Tex., assignors to Celanese Corporation of America. Purification of alcohols by azeotropic distillation. 2,591,877, Apr. 8.

Robertson, Neil D. G., Hartsbourne, Bushey Heath, and G. W. Browse, assignors to The Non-Ferrous Die Casting Company Limited, London, England. Chill casting brass and other copper alloys containing zinc. 2,592,337, Apr. 8.

Robinson, Russell I., assignor to The Louis Allis Company, Milwaukee, Wis. Vertical sanitary motor. 2,592,070, Apr. 8.

Rockhoff, Bert E., Grosse Pointe Farms, assignor to Detroit Steel Products Company, Detroit, Mich. Adjustable feed table for rolled sheet stock. 2,592,469, Apr. 8.

Rockwell, Harvey W., assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa. Hydraulic system. 2,592,338, Apr. 8.

Rodrigue, Joseph A.: *See*—
Pepin, William, and Rodrigue.

Rogers, Philip S., W. O. Emmons, J. W. Godfrey, and J. M. Kelso, Lockport, N. Y., assignors to General Motors Corporation, Detroit, Mich. Oxygen regenerator. 2,591,878, Apr. 8.

Rohrer, Karl, assignor to Onsrud Machine Works Inc., Chicago, Ill. Automatic guide pin for routing machines. 2,592,187, Apr. 8.

Rollat, Germain, assignor to the firm Societe Genevoise d'Instruments de Physique, Geneva, Switzerland. Microscope measuring device. 2,592,339, Apr. 8.

Roller Riddle Corp., assignee: *See*—
Faulkner, Edward.

Rolls-Royce Limited, assignee: *See*—
Oulianoff, George.

Ronceray, Robert A., Thiais, France. Apparatus for the preheating of pattern plates. 2,592,340, Apr. 8.

Ronceray, Robert A., Thiais, France. Molding machine. 2,592,341, Apr. 8.

Ronson, Louis G., assignee: *See*—
Farone, Roland J.

Root, Nathan, Grand Rapids, Mich. Cleaning furs. 2,591,663, Apr. 8.

Rosenberg, David W.: *See*—
Rosenberg, Maurice J. and D. W.

Rosenberg, Maurice J. and D. W., Baltimore, Md. Foot measuring device. 2,592,188, Apr. 8.

Rothrock, Lillian, Blytheville, Ark. Store counter display stand. 2,592,189, Apr. 8.

Rothschild, Gilbert R.: *See*—
Gibson, Glenn J., and Rothschild.

Rounds, Comer A., and P. A. Nester, West Warwick, R. I., assignors to Chemo-Textiles, Inc. Abrasion testing machine. 2,591,722, Apr. 8.

Rourke, John: *See*—
Wilson, Arthur D., Oakley, and Rourke.

Rowe, Alfred G., Tasmania, Australia. Coin-controlled apparatus. 2,591,968, Apr. 8.

Rubens, Harry S., Manhasset, and I. Suwa, Jackson Heights, assignors to National Electric Instrument Company, Inc., Elmhurst, N. Y. Illuminated speculum. 2,592,190, Apr. 8.

Ruddy, Arlo W., Albany, assignor to Sterling Drug Inc., New York, N. Y. Quaternary ammonium slats of N-(3,3-diphenyl propyl) pyrrolidine. 2,592,191, Apr. 8.

Rugcrofters, Inc., assignee: *See*—
Holmen, Torleif K.

Ruhl, Charles L.: *See*—
Exline, Marcus P. and Ruhl.

Russell, Andrew C., Shawnee, Okla. Fluid heater for oil well treating apparatus. 2,591,879, Apr. 8.

Russell, Gilbert A., Cranford, N. J., assignor to General Motors Corporation, Detroit, Mich. Abrading machine. 2,592,071, Apr. 8.

Ryberg, Nils, Stockholm, Sweden. Machine for manufacturing fiberboard. 2,592,470, Apr. 8.

Ryckman, William D., Jr., Schenectady, N. Y., assignor to General Electric Company. Wheel slip protective device. 2,592,342, Apr. 8.

S & C Electric Company, assignee: *See*—
Lindell, Sigurd I.
Lindell, Sigurd I., and Schultheiss.

Sackett, Loren C., Highland Park, J. R. Miller, Royal Oak, and R. W. Kelto, assignors to Chrysler Corporation, Highland Park, Mich. Apparatus and method for handling liquids. 2,592,520, Apr. 8.

Saeurefabrik Schweizerhall, assignee: *See*—
Frey, Walter, and Boller.

St. Clair, Theodore A.: *See*—
Eddy, William R., and St. Clair.

Sammons, Herbert F., La Crescenta, assignor to Lockheed Aircraft Corporation, Burbank, Calif. Liquid and vapor control valve. 2,591,880, Apr. 8.

Sampson, William, Aldwych, London, England, assignor, by mesne assignments, to Foster Wheeler Corporation, New York, N. Y. Lined furnace wall. 2,591,723, Apr. 8.

Sanders, Wilburn C., Grandview, Tex. Gas by-pass for crude oil storage tanks. 2,592,072, Apr. 8.

Sanford, Charles H., New York, N. Y. Spoon with a base. 2,592,192, Apr. 8.

Saunders, Norman B., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War. Reducing amplitude distortion in cathode-follower amplifiers. 2,592,193, Apr. 8.

Sawchuk, Michael, Toronto, Ontario, assignor to Dustbane Mfg. Company Limited, Ottawa, Ontario, Canada. Liquid soap dispenser. 2,591,969, Apr. 8.

Sawyer, James G., Buffalo, N. Y. Axial flow fan. 2,592,471, Apr. 8.

Saxl, Erwin J., Providence, R. I. Tension meter. 2,591,724, Apr. 8.

Scheldorf, Owen H., North East, Pa., assignor to General Electric Company. Compressor head assembly. 2,592,343, Apr. 8.

Schlaf, Joseph W., Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass. Sheet metal article and molding strip assembly. 2,592,472, Apr. 8.

Schlumberger, Marcel: *See*—
Picard, Maxime F. B., and Schlumberger.

Schlumberger Well Surveying Corporation, assignee: *See*—
Aiken, Charles B.
Doll, Henri-Georges.
Krasnow, Shelley.

Schmalsried, Harry L., North Manchester, Ind. Steering mechanism for wheeled frames. 2,592,194, Apr. 8.

Schmerling, Louis *See*—
Thompson, Ralph B., and Schmerling.

Schmitz, William R., Jr.: *See*—
Bradshaw, William H., and Schmitz.

Schneebeli, Gottfried, Zurich, assignor to Robert Schwarzenbach & Co., Thalwil, Zurich, Switzerland. Loom cloth edge determining device. 2,591,725, Apr. 8.

Schneider, Allan K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Modification of linear polyamides whose amide groups are separated by at least 4 carbons with N-carboanhydrides of alpha amino acids. 2,592,473, Apr. 8.

Schnell, August and A. Bosshard, Zurich, Switzerland, assignors to Durisol Inc., New York, N. Y. Producing lightweight concrete. 2,592,345, Apr. 8.

Schnyder, Ottmar, Klus, near Balsthal, assignor to Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G., Klus, Switzerland. Twin plunger valve. 2,592,474, Apr. 8.

Schoen, Moritz, New York, N. Y. Chest or container structure. 2,591,726, Apr. 8.

Schubert, Ralph, assignee: *See*—
Jacoby, George.

Schultheiss, Carl E.: *See*—
Lindell, Sigurd I., and Schultheiss.

Schultz, Sylvester: *See*—
Perry, Nick, and Schultz.

Schulz, Fred R., Berkeley Heights, assignor to Sondon Systems Corporation, Red Bank, N. J. Ticket cartridge for copy writers. 2,591,727, Apr. 8.

Schulz, Fred R., Berkeley Heights, assignor to Sondon Systems Corporation, Red Bank, N. J. Locked copy ticket writer. 2,591,728, Apr. 8.

Schwarz, George, Rochester, N. Y., and P. F. De Smet, Wilrijk-Antwery, assignors to Gevaert Photo-Production N. V., Mortsel-Antwerp, Belgium. Heterocyclic nitrogen compounds. 2,592,195, Apr. 8.

Schwarz, George, Rochester, N. Y., and P. F. De Smet, Wilrijk-Antwerp, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium. Methine dyestuffs and their manufacture. 2,592,196, Apr. 8.

Schwarzenbach, Robert, & Co., assignee: *See*—
Schneebeli, Gottfried.

Schwarzkopf, Emil, Los Angeles, Calif. Door stop mechanism. 2,592,073, Apr. 8.

Schweitzer, Frank J., Jr., Brea, Calif. Side-plug hydraulic cellar gate. 2,592,197, Apr. 8.

Scogin, Henry C., King City, Calif. Automatic roll dispenser. 2,592,346, Apr. 8.

Seaman, Richard H., assignor to Mega Corporation, Los Angeles, Calif. Electronic discharge tube system for animated or flowing electric signs and display devices. 2,591,729, Apr. 8.

Searle, G. D., & Co., assignee: *See*—
Cusic, John W.

Security Engineering Co., Inc., assignee: *See*—
Hammer, Otto.

Seegers, Arthur J. and L. G., assignors of one-half to J. A. Priest, French Camp, Calif. Hay feed cutoff for baling machines. 2,591,970, Apr. 8.

Seegers, Lawrence G.: *See*—
Seegers, Arthur J. and L. G.

Seeley, George A., New Haven, Conn., and G. E. Seeley, Worcester, Mass. Motor-driven shaver. 2,592,198, Apr. 8.

Seeley, George E.: *See*—
Seeley, George A. and G. E.

Seely, Otty J., Olidale, assignor of thiry per cent to R. N. Lancaster, Bakersfield, Calif. Trailer steering mechanism. 2,592,475, Apr. 8.

Selas Corporation of America, assignee: *See*—
Bloom, Quentin M.

Sendzimir, Tadeusz, Middletown, Ohio, assignor to Armzen Company, Incorporated, Waterbury, Conn. Collapsib'e tension-winder or reel for strip material. 2,591,730, Apr. 8.

Sennet, Morgan B., assignor to De Laval Steam Turbine Company, Trenton, N. J. Series arrangement of positive and non-positive screw pumps. 2,592,476, Apr. 8.

Sepavich, Victor F., and R. A. Donnan, assignors to Crompton & Knowles Loom Works, Worcester, Mass. Electric weft detecting system for drop box looms. 2,592,199, Apr. 8.

Setchell, Barton T., St. Paul, Minn. Making radio speakers. 2,591,881, Apr. 8.

Seyferth, Harold N., East Detroit, assignor to Ex-Cell-O Corporation, Detroit, Mich. Machine tool spindle drive. 2,592,200, Apr. 8.

Shakespeare Products Company, assignee: *See*—
Weber, Herman.

Shanaman, Charles B., Clarksburg, W. Va. Radiator cleaning apparatus. 2,592,477, Apr. 8.

Shapiro, Gustave, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of War. Measuring system. 2,591,731, Apr. 8.

Shaw, Percy, Boothtown, Halifax, England. Manufacture of pile fabrics. 2,592,201, Apr. 8.

Sheaffer, Charles, Long Branch, N. J. Radio apparatus. 2,591,732, Apr. 8.

Shell Development Company, assignee: *See*—
Engel, Willem F.
Lacombé, Antoine E.
Moore, Robert J., and Wachter.

Shell Development Company, assignee: *See*—
Plank, Norris.

Sheppard, Edward A.: *See*—
Peter, Leslie H., and Sheppard.

Sherman, Harry, Laurelton, N. Y. Hook for curtains. 2,592,478, Apr. 8.

Sherr, Sava I., assignor to S. Briskman, New York, N. Y. Apparatus for finishing toothed cutting blades. 2,592,344, Apr. 8.

Shirk, Robert M.: *See*—
Peavy, Claude C., and Shirk.

Shirley, Frederick J., London, England. Wrapper or container of cardboard or like material. 2,591,882, Apr. 8.

Shortland, Arthur, assignor to Mellor Bromley and Company Limited, Leicester, England. Knitting machine. 2,591,883, Apr. 8.

Shuman, Frank R., Jr.: *See*—
Harper, James I., Shuman, and Peters.

Shute, Charles E., Longmeadow, Mass. Inflatable toy. 2,592,347, Apr. 8.

Siefker, Joseph A., St. Louis, and J. F. Brasch, Clayton, assignors to Anheuser-Busch, Inc., St. Louis, Mo. Producing animal feeds. 2,592,348, Apr. 8.

Silverman, David C.: *See*—
Canziani, Victor J., Silverman, and Wiener.

Simmons Company, assignee: *See*—
Woller, Edward E.

Simon, Eli, Los Angeles, and F. W. Thomas, assignors to Lockheed Aircraft Corporation, Burbank, Calif. Alkyd resin-diisocyanate cellular foamed plastics. 2,591,884, Apr. 8.

Simons, Archie: *See*—
Felilden, Geoffrey B. R., Simons, and Holl.

Simpson, Clarence E., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Extractor for firearms. 2,591,733, Apr. 8.

Simpson, Herbert S., trustee, assignee: *See*—
Granath, Axel G.

Sinclair, Edward L., Manhasset, N. Y., and W. A. Hagerbaumer, Westfield, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Catalytic contacting tower. 2,592,479, Apr. 8.

Singer Manufacturing Company, The, assignee: *See*—
Muecke, Edward.

Sixt, Karl: *See*—
Spencer, Arthur M., Jacobson, and Sixt.

Skillman, Thomas S., Mosman, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia. Conveyer belt apparatus. 2,591,971, Apr. 8.

Skogseid, Anders, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Preparing and reducing mononitrated polystyrene. 2,592,349, Apr. 8.

Skogseid, Anders, Heroya, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway. Preparation of polymeric organic cation resin exchangers containing imino groups. 2,592,350, Apr. 8.

Slade, Charles E., Wembley, and A. Kershaw, London, England, assignors to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric welding supply circuit. 2,591,972, Apr. 8.

Slocum, Arthur G., Ensign, Kans. Portable conveyer and gatherer for grain. 2,592,480, Apr. 8.

Slusher, Frank, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Weighing and packaging apparatus. 2,592,074, Apr. 8.

Smidth, F. L., & Co., assignee: *See*—
Heilmann, Thorbjorn.

Smith, Charles R., Chicago, Ill. Traversing hoist. 2,591,974, Apr. 8.

Smith, Clyde, Hopkinsville, Ky., assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Photoelectric sorting device. 2,592,202, Apr. 8.

Smith, Frank E., and H. B. Williams, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Electrolytic cell. 2,592,483, Apr. 8.

Smith, Harold E., Lykens, Pa. Light projector. 2,592,075, Apr. 8.

Smith, James B.: *See*—
Holland, Ernest O., and Smith.

Smith, Joseph W., Cambridge, Mass. Citrus fruit utensil. 2,591,973, Apr. 8.

Smith, Moreton A., Bremerton, Wash. Power-driven tweezer. 2,592,484, Apr. 8.

Smith, Norman A., Saugus, and K. L. Darrah, Lynnfield Center, Mass., assignors to General Electric Company. Planetary gear construction. 2,591,734, Apr. 8.

Smith, Paul V., Jr.: *See*—
Morrell, Charles E., Carlson, and Smith.

Smtih, Robert F., Jr., and P. D. Dale, assignors to Eastman Kodak Company, Rochester, N. Y. Spring clip. 2,592,351, Apr. 8.

Smith, Roscoe S., Tuscaloosa, Ala., assignor to West Virginia Pulp & Paper Company, New York, N. Y. Purification of tall oil pitch. 2,591,885, Apr. 8.

Snyder, Joseph, Washington, D. C. Rack for holding slices of toasted bread and the like. 2,592,203, Apr. 8.

Snyder, Paul C., assignor to Proctor Electric Company, Philadelphia, Pa. Toaster 2,591,886, Apr. 8.

Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine, assignee: *See*—
Neel, Louis.

Societe de Prospection Electrique Procedes Schlumberger, assignee: *See*—
Picard, Maxime F. B., and Schlumberger.

Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., assignee: *See*—
Levy, René L.

Societe Genevoise d'Instruments de Physique, assignee: *See*—
Rollat, Germain.

Societe "La Telemecanique Electrique," assignee: *See*—
Blanchet, André.

Societe Rhodiaceta, assignee: *See*—
Mosse, Pierre.

Socolofsky, John F., Woodbury, and R. V. White, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated. Mineral oil composition. 2,592,204, Apr. 8.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Crowley, John A., Jr.
Denton, William I., and Bishop.
Evans, Louis P.
Orkin, Bernard A.
Sinclair, Edward L., and Hagerbaumer.
Socolofsky, John F., and White.
Thompson, James P.

Solomon, Ernest, Nutley, assignor to The M. W. Kellogg Company, Jersey City, N. J. Manufacture of hydrazine. 2,591,735, Apr. 8.

Sommer, Leo H., Cambridge, Mass., assignor to Dow Corning Corporation, Midland, Mich. Ketodisiloxanes. 2,591,736, Apr. 8.

Sondon Systems Corporation, assignee: *See*—
Schuls, Fred R.

South, Charles, deceased, Idaho Falls, Idaho, by D. M. South, administratrix, Idaho Falls, Idaho. Lever and toggle actuated log gripping device. 2,592,205, Apr. 8.

South, Dorothy M., administratrix: *See*—
South, Charles.

Souther, Robert E., Jr., Houston, Tex., assignor to National Lead Company, Los Angeles, Calif. Detection of oil in mud-laden well drilling fluids. 2,591,737, Apr. 8.

Southwick, Orion E., Port Chicago, Calif. Toilet flush tank refill device. 2,591,975, Apr. 8.

Speakman, John B.: *See*—
Johnson, Arthur, and Speakman.

Speck, William H., assignor to Lindberg Engineering Company, Chicago, Ill. Valve. 2,592,352, Apr. 8.

Spencer, Arthur M., Santa Fe, N. Mex., A. Jacobson, Cleveland, and K. Sixt, East Cleveland, Ohio. Fiber beater for the liberation of cellulose fibers. 2,592,481, Apr. 8.

Spencer, Benjamin F., Garden City, N. Y., assignor to The Sperry Corporation. Cathode-ray tube voltage measuring device. 2,591,738, Apr. 8.

Sperry, Charles F., Burbank, assignor, by mesne assignments, to H. C. Thomas, Pasadena, Calif. Bermuda type metal shingled roof. 2,592,482, Apr. 8.

Sperry Corporation, The, assignee: *See*—
Ayres, Waldemar A.
Hansen, William W.
Hays, Robert F., Jr.
Spencer, Benjamin F.

Sperry Products, Inc., assignee: *See*—
Firestone, Floyd A.

Sperry Products, Inc., assignee: *See*—
Firestone, Floyd A., and De Lano.
Williams, Ross E.

Sperry-Sun Well Surveying Company, assignee: *See*—
Kothny, Gottdank L.

Spinnler, Viktor, Basel, Switzerland. Vise with anti-tilting means for the movable jaw. 2,592,076, Apr. 8.

Spiri, Willy H., Whittier, assignor to Abegg & Reinhold Co., Los Angeles, Calif. Movable gripping unit for pipe wrenches. 2,591,887, Apr. 8.

Sproull, Robert L., Penns Neck, N. J., assignor to Radio Corporation of America. Magnetron. 2,592,206, Apr. 8.

Stair, Carlyle B., Glendale, assignor to Prestige Products, Inc., Beverly Hills, Calif. Container and mixer for beverages. 2,592,485, Apr. 8.

Stamper, Willson Y., Newark, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Portable battery. 2,592,207, Apr. 8.

Stamper, Willson Y., Newark, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Bezel lock for electric safety lamps. 2,592,208, Apr. 8.

Stamper, Willson Y., Newark, assignor to Thomas A. Edison, Incorporated, West Orange, N. J. Carrying case for portable batteries. 2,592,209, Apr. 8.

Standard Oil Company, assignee: *See*—
Krause, Jack H., and Tom.

Standard Oil Development Company, assignee: *See*—
Ackroyd, Archie M.
Barr, Frank T., and Martin.
Blatz, Leo J.
Catterall, William E.
Hildebrandt, Alexander B., and Ledgerwood.
Morgan, Jerome P., and Patterson.
Morrell, Charles E.
Morrell, Charles E., and Carlson.
Morrell, Charles E., and Robertson.
Rex, Walter A., and Read.
Waddey, Walter E., and Cyphers.

Stanolind Oil and Gas Company, assignee: *See*—
Eisler, Joseph D.

Stark, Donald A., assignor to W. Waterman, Chicago, Ill. Hydraulic metering fuse. 2,592,486, Apr. 8.

Stark, Donald A., assignor to W. Waterman, Chicago, Ill. Metering fuse. 2,592,487, Apr. 8.

Steffen, Edward F., Alvin, Tex. Portable highway signal light. 2,591,888, Apr. 8.

Stephen, Louie D., assignee: *See*—
Cumming, William O.

Sterett, Overby B.: *See*—
West, Leonard R., and Sterett.

Sterling Drug Inc., assignee: *See*—
Archer, Sydney.
Ruddy, Arlo W.

Stevenson, Robert, Barrington, R. I., assignor to Merit Engineering, Inc. Multiple control valve. 2,592,353, Apr. 8.

Stewart, Robert J., and F. S. Bell, assignors to Crown Cork & Seal Company, Inc., Baltimore, Md. Filling machine. 2,591,739, Apr. 8.

Stewart-Warner Corporation, assignee: *See*—
Whitted, John B.

Stilwell, Gladys F.: *See*—
Stilwell, Wilber M. and G. F.

Stilwell, Wilber M. and G. F., Vermillion, S. Dak. Child's safety scissors. 2,591,740, Apr. 8.

Stinchfield, John M., Monmouth Junction, N. J., assignor to Radio Corporation of America. Electron discharge device utilizing cavity resonators. 2,591,976, Apr. 8.

Stoiber, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Film developing rack. 2,592,354, Apr. 8.

Stone, Wayne A., St. Louis Park, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Caging means for gyroscopes having two displacement axes. 2,591,741, Apr. 8.

Storm, Andre W.: *See*—
Mak, Gerrit, and Storm.

Strain, Franklin: *See*—
Muskat, Irving E., and Strain.

Streit, Albert P., deceased, and M. J. M. Streit, Cachan, France; M. J. M. Streit, temporary administrator of the estate of A. P. Streit. Hooping railway sleepers. 2,592,077, Apr. 8.

Streit, Michel J. M., administrator: *See*—
Streit, Albert P. and M. J. M.

Streit, Michel J. M.: *See*—
Streit, Albert P. and M. J. M.

Streitz, George A., assignee: *See*—
Brown, Earl E.

Strutt, Maximiliaan J. O., and A. van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Photoelectric device for converting variations in light intensity into variations in current. 2,591,977, Apr. 8.

Sun Oil Company, assignee: *See*—
Chaney, Preston E., and Barnes.
Harper, James I., Shuman, and Peters.

Sundstrom, Carl, Syracuse, N. Y., assignor to Allied Chemical & Dye Corporation. Emergency valve control. 2,591,889, Apr. 8.

Suozzo, John, North Arlington, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dispatcher-controlled elevator system. 2,591,978, Apr. 8.

Superior Valve Manufacturing Company, assignee: *See*—
Du Charme, William S.

Suwa, Ignaz: *See*—
Rubens, Harry S., and Suwa.

Svarz, Jerry: *See*—
Kaiser, Emil, and Svarz.

Swain, Kenneth W.: *See*—
Edsall, William S., Swain, and Kozacka.

Swedlow, Samuel: *See*—
Parsegian, Vozcan L., and Swedlow.

Swennes, Benjamin A., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,592,210, Apr. 8.

Tachikawa, Shozo, Sanjo, Higashiyama-Ku, Kyoto, Japan. Manufacturing macromolecular cellulose fiber. 2,592,355, Apr. 8.

Tanghe, Leo J.: *See*—
Malm, Carl J., and Tanghe.

Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Soluble interpolymers of diallylic maleates and allylic chlorides. 2,592,211, Apr. 8.

Taylor, Clarence E.: *See*—
Gwoosh, Stephen J., and Taylor.

Taylor, Fred S.: *See*—
Taylor, Richard P. and F. S.

Taylor, Richard P. and F. S., Minneapolis, Minn. Educational figure toy device. 2,592,078, Apr. 8.

Taylor, Robert A.: *See*—
Morey, William L., and Taylor.

Taylor, Robert F.: *See*—
Cole, Horace, Green, Le Mare, and Taylor.

Telefonaktiebolaget L M Ericsson, assignee: *See*—
Backmark, Nils E. G.

Testi, Nicholas, assignor to Gillette Safety Razor Company, Boston, Mass. Safety razor. 2,592,488, Apr. 8.

Texas Company, The, assignee: *See*—
Eastman, Du Bois, Barber, and Reynolds.
Hess, Howard V., Arnold, and Drabkin.
Jacolev, Leon, and German.
McCleary, Rush F., and Devaney.

Thévenaz, Louis: *See*—
Nicole, Amédée, and Thévenaz.

Thomas, Charles C. H., Ben Avon, and L. E. Edelman, Pittsburgh, Pa.; said Edelman assignor to said Thomas. Enteric medicament. 2,591,742, Apr. 8.

Thomas, Frank W.: *See*—
Simon, Eli, and Thomas.

Thomas, Hayward C., assignee: *See*—
Sperry, Charles F.

Thomas, Laurence H., Birmingham, and F. W. Kuhn, Grosse Pointe Farms, assignors to American Electrical Heater Company, Detroit, Mich. Traveling iron. 2,592,489, Apr. 8.

Thommen, Hans, and A. Amstutz, assignors to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland. Compressed gas operated circuit breaker. 2,592,079, Apr. 8.

Thompson, Charles T., Swampscott, Mass., assignor to General Electric Company. Cage construction for planetary gearing. 2,591,743, Apr. 8.

Thompson, Howard H., assignor to Weavewood, Inc., Minneapolis, Minn. Molding dishlike articles. 2,592,080, Apr. 8.

Thompson, James P., Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Dewaxing oil and continuous rotary filter therefor. 2,592,490, Apr. 8.

Thompson, John S., Detroit, Mich., assignor, by mesne assignments, to Parker Rust-Proof Company. Bonded asbestos and making the same. 2,592,521, Apr. 8.

Thompson Products, Inc., assignee: *See*—
Herbenar, Edward J.

Thompson Products, Limited, assignee: *See*—
Liddicoat, Percill.

Thompson, Ralph B., Hinsdale, and L. Schmerling, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Production of high molecular weight resinous and plastic materials having an aromatic structure. 2,591,890, Apr. 8.

Thorens, Hermann, S. A., assignee: *See*—
Jahncke, Albert.

Thorsen, Clifford G., Chicago, Ill. Demountable structure. 2,591,891, Apr. 8.

Thurness, Bernard E., Shaker Heights, Ohio. Resilient holding device. 2,592,356, Apr. 8.

Tide Water Associated Oil Company, assignee: *See*—
Persyn, Charles L., Jr.

Toepel, Florian C., Seattle, Wash. Garbage incinerating unit. 2,592,491, Apr. 8.

Toffiemire, Benjamin F., Lafayette, Calif. Anatomical contact-forming dental matrix band. 2,591,744, Apr. 8.

Toffiemire, Benjamin F., Lafayette, Calif. Contra-angle retainer for use with gingival-aperture and cusp-replacing dental matrix bands. 2,591,745, Apr. 8.

Toledo Scale Company, assignee: *See*—
Williams, Lawrence S.

Tom, John E., East Cleveland, Ohio. Drawbar operable transmission mechanism. 2,591,746, Apr. 8.

Tom, Theodore B.: *See*—
Krause, Jack H., and Tom.

Tompkins, Edward D. V., New York, N. Y. Dual reciprocating blade sawing apparatus. 2,591,747, Apr. 8.

Toulmin, Harry A., Jr., assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio. Making containers. 2,592,081, Apr. 8.

Towmotor Corporation, assignee: *See*—
Weaver, Elverton W.

Townshend, Ernest F. R., Waterlooville, England. Changing device for internal-combustion engines. 2,591,892, Apr. 8.

Trackson Company, assignee: *See*—
Erdahl, Nicholas M.

Trainor, Foster J., Holly Hill, Fla. Electric snap switch. 2,592,357, Apr. 8.

Trant, James L., assignor to The Brown-Brockmeyer Company, Dayton, Ohio. Reversible motor. 2,592,492, Apr. 8.

Traylor Engineering & Manufacturing Company, assignee: *See*—
Mertz, Fred-A., and Walker.

Trevor, Bertram, Riverhead, N. Y., assignor to Radio Corporation of America. Pulse counter circuit. 2,592,493, Apr. 8.

Trippel, Karl, Choindez, Switzerland. Machine for grinding twist drills. 2,591,893, Apr. 8.

Trumpler, William E., assignor to Clark Bros. Co., Inc., Olean, N. Y. Floating shaft seal. 2,592,082, Apr. 8.

Turley, James W., Manchester, England. Mounting for hinged doors and the like. 2,591,979, Apr. 8.

Turner, Frank L., Roanoke, Va. Nursing bottle holder and kit. 2,592,212, Apr. 8.

Tutwiler, Temple W., II, Birmingham, Ala. Coal mining machine. 2,592,358, Apr. 8.

Twin Disc Clutch Company, assignee: *See*—
Vanderzee, Harry H.

Udylite Corporation, The, assignee: *See*—
Davis, John V.

Ullmann, Stuart E., Lake Bluff, assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill. Seal. 2,592,494, Apr. 8.

Union Steam Pump Company, assignee: *See*—
Yohpe, Reinhard A.

United Aircraft Corporation, assignee: *See*—
Diefenderfer, William E.
Wallace, Rudolf N.

United Aircraft Products, Inc., assignee: *See*—
Booth, Harry T.

United Shoe Machinery Corporation, assignee: *See*—
Janas, Walter J.
Jorgensen, Bernhardt.
Walsh, John E., and Greene.

United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Baker, William R.
Groth, Edward J., Jr.

United States Radium Corporation, assignee: *See*—
Carroll, Clayton C.

United States Rubber Company, assignee: *See*—
Tawney, Pliny O.

United States Steel Company, assignee: *See*—
Lorig, Edwin T.

United States Time Corporation, The, assignee: *See*—
Rawlings, Arthur L.

Universal Oil Products Company, assignee: *See*—
Huff, Lyman C.
Linn, Carl B.
Thompson, Ralph B., and Schmerling.

Vagim, Edward J., Fresno, Calif. Feed control for automatic weighers. 2,592,083, Apr. 8.

Valite Corporation, assignee: *See*—
McElhinney, Thomas R., and Woodruff.

Valiton, Frederick C., South Ashburnham, and W. H. Hobby, Gardner, Mass. Pneumatic furniture assembling press. 2,592,359, Apr. 8.

Valiton, Frederick C., South Ashburnham, and W. H. Hobby, Gardner, Mass. Pneumatic furniture assembling press. 2,592,360, Apr. 8.

Van Alstyne, Richard F., Davenport, Iowa. Chimney and means for supporting same. 2,592,084, Apr. 8.

Van Cutsem, Albert T.: *See*—
Kline, Paul C., Crook, and Van Cutsem.

Vanderzee, Harry H., assignor to Twin Disc Clutch Company, Racine, Wis. Quick release valve mechanism. 2,592,213, Apr. 8.

Van der Ziel, Aldert: *See*—
Strutt, Maximiliaan J. O., and van der Ziel.

Van Doorne, Hubertus J., Deurne, Netherlands. Refuse vehicle. 2,592,085, Apr. 8.

Van Gelder, Zeger: *See*—
Van Overbeek, Adrianus J. W. M., van Gelder, and Jonker.

Van Hofweegen, Johannes M., and K. S. Knol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Adjustable impedance transformer. 2,591,980, Apr. 8.

Van Overbeek, Adrianus J. W. M., Z. van Gelder and J. L. H. Jonker, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Circuit arrangement, including a cathode-ray tube comprising cathode-ray beam deflecting means. 2,591,981, Apr. 8.

Van Weel, Adelbert, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Superheterodyne receiver for very short waves. 2,591,982, Apr. 8.

Van Weel, Adelbert, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Mixing circuit arrangement. 2,591,983, Apr. 8.

Varnado, Willard W., Wiggins, Miss. Ice-cream freezer support. 2,592,495, Apr. 8.

Vaughan, Charles L. P., assignor to Hercules Powder Company, Wilmington, Del. Amphoteric cellulose derivatives. 2,591,748, Apr. 8.

Veed Corp., assignee: *See*—
Hvid, Rasmus M.

Vickers Incorporated, assignee: *See*—
Gardiner, Duncan B.
Graham, MacKellar K.

Vigh, John, Park Ridge, Ill. X-ray tube head. 2,592,496, Apr. 8.

Villemagne, Jean M., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Amplitude modulation system. 2,591,749, Apr. 8.

Vinco Corporation, assignee: *See*—
Frankland, Edwin.

Vine, Allyn C.: *See*—
Klebba, Arthur A., Vine, and Ewing.

Viney, Harry S., Kingston-on-Thames, England. Means adjustably supporting a mirror from a cabinet or other base member. 2,592,086, Apr. 8.

Vittum, Paul W.: *See*—
Loria, Anthony, Vittum, and Weissberger.
Weissberger, Arnold, Glass, and Vittum.

Voges, Edwin, Ireland, Tex. Intermittently actuated distributor dispensing valve. 2,591,894, Apr. 8.

Wachter, Aaron: *See*—
Moore, Robert J., and Wachter.

Waddey, Walter E., Elizabeth, and E. B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company. Extreme pressure lubricant. 2,592,497, Apr. 8.

Walker, Brooks, Piedmont, Calif. Close-nesting snap retainer for Venetian blinds. 2,591,750, Apr. 8.

Walker, Robert S.: *See*—
Mertz, Fred A., and Walker.

Wallace, Nancy K., Los Angeles, Calif. Clothespin holder of apron type. 2,592,087, Apr. 8.

Wallace, Rudolf N., Glastonbury, assignor to United Aircraft Corporation, East Hartford, Conn. Propeller and spinner construction. 2,592,214, Apr. 8.

Waller, Coy W.: *See*—
Mowat, John H., and Waller.

Wallis, Cyril T., Brockport, N. Y., assignor to General Motors Corporation, Detroit, Mich. Shaft gauge. 2,591,895, Apr. 8.

Walls, Edward L., Jr.: *See*—
Cosgriff, Robert L., and Walls.

Walsh, David H., Albany, N. Y. Hinge. 2,591,984, Apr. 8.

Walsh, John E., Beverly, and C. W. Greene, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J. Gun loading mechanism. 2,591,896, Apr. 8.

Waterman, William, assignee: *See*—
Stark, Donald A.

Wandel, Kurt, Honey Brook, Pa. Apparatus for subjecting materials to a disintegrating or pulping treatment. 2,592,215, Apr. 8.

Wannamaker, William H., Jr., Flourtown, Pa., and D. P. Eckman, Ithaca, N. Y., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electric proportioning controller with pneumatic reset. 2,592,088, Apr. 8.

War, United States of America as represented by the Secretary of, assignee: *See*—
Saunders, Norman B.
Shapiro, Gustave.
Simpson, Clarence E.

Warcup, Frederick J., Nyack, N. Y. Automatic cleaner solution supply for beer distributing systems. 2,591,985, Apr. 8.

Warner Aircraft Corporation, The, assignee: *See*—
Majneri, Ludwig A.

Warner Brothers Company, The, assignee: *See*—
Phillips, Stanley H.

Warner, Paul F., Borger, Tex., assignor to Phillips Petroleum Company. Manufacture of mercaptans. 2,592,089, Apr. 8.

Watts, Albert E., Montreal, Quebec, Canada. Return fire tube boiler with indirectly heated domestic supply. 2,592,216, Apr. 8.

Weaver, Allen E., assignor of one-half to Hammond Bag & Paper Company, Wellsburg, W. Va. Paper winding and smoothing device. 2,592,090, Apr. 8.

Weaver, Elverton W., assignor to Towmotor Corporation, Cleveland, Ohio. Motorized hand truck. 2,592,091, Apr. 8.

Weavewood, Inc., assignee: *See*—
Thompson, Howard H.

Weber, Herman, assignor to Shakespeare Products Company, Kalamazoo, Mich. Remote control device for heaters, valves, and other remote controlled parts. 2,592,361, Apr. 8.

Weber, Robert W., assignor of 51 per cent to J. B. Hitchings, Long Beach, Calif. Trailer hitch with a detachable coupling means. 2,592,217, Apr. 8.

Weber, Victor, Greensburg, and R. F. Garner, assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa. Safety device for fuel burners. 2,591,897, Apr. 8.

Webster, Raymond C., Kansas City, Mo., assignor to W. E. Anderson, Inc. Static electricity instrument having audible indicator. 2,591,898, Apr. 8.

Webster, William M., Jr.: *See*—
Johnson, Edward O., and Webster.

Webster, William M., Jr., Princeton, N. J., assignor to Radio Corporation of America. Self-sustaining gas tube circuit. 2,591,899, Apr. 8.

Wechsler, Leonard, South Bend, Ind., assignor to Bendix Aviation Corporation, Teterboro, N. J. Nutation damping device. 2,592,092, Apr. 8.

Weedon, Basil C. L.: *See*—
Heilbron, Ian M., Weedon, Jones, Hems, and Jansen.

Weeks, Walter L. *See*—
Holben, Martin M., and Weeks.

Weeks, Wendy, Great Neck, N. Y. Hem guide clasp. 2,592,362, Apr. 8.

Wehrle, Joseph J., Altoona, Pa., O. L. Niehouse, and J. G. Burtle, Alton, assignors to Olin Industries, Inc., East Alton, Ill. Purification process. 2,591,664, Apr. 8.

Weise, Frederick H.: *See*—
Hohl, George L., Weise, Rist, and Rist.

Weisgerber, Cyrus A., assignor to Hercules Powder Company, Wilmington, Del. Copolymers of allyl acetamides. 2,592,218, Apr. 8.

Weiss, Harry and F. Kammer, New York, N. Y. One-piece tie down device and grabhook. 2,591,986, Apr. 8.

Weissberger, Arnold: *See*—
Loria, Anthony, Vittum, and Weissberger.

Weissberger, Arnold, D. B. Glass and P. W. Vittum, assignors to Eastman Kodak Company, Rochester, N. Y. P-phenylenediamine developer containing N-alkylacetamido ethyl substituent. 2,592,363, Apr. 8.

Weissberger, Arnold, D. B. Glass and P. W. Vittum, assignors to Eastman Kodak Company, Rochester, N. Y. P-phenylenediamine developer containing alkylacylamidoethyl or alkylacylamidoethoxy ring substituents. 2,592,364, Apr. 8.

Weizmann, Charles, Rehovoth, Israel, assignor to Polymerisable Products Limited, London County, England. Condensation process. 2,592,365, Apr. 8.

Wells, Isaac S., assignor of two-thirds to J. M. Guice, Laurel, Miss. Pedal boat propulsion means. 2,592,498, Apr. 8.

Werden, Henry J., West St. Paul, assignor to Zinsmaster Baking Company, Minneapolis, Minn. Endless conveyer having retractable flights. 2,591,987, Apr. 8.

Werntz, Charles W., Warrenton, Mo. Hand sander. 2,592,093, Apr. 8.

West, Leonard R., and O. B. Sterett, San Diego, Calif. Trailer hitch dolly. 2,592,219, Apr. 8.

West Virginia Pulp & Paper Company, assignee: *See*—
Smith, Roscoe S.

Western Electric Company, Incorporated, assignee: *See*—
Clotworthy, Charles B., Jr.
Hackbarth, Carl J.
Moss, Earl C.

Westinghouse Brake and Signal Company Limited, assignee *See*—
Peter, Leslie H., and Sheppard.

Westinghouse Electric Corporation, assignee: *See*—
Holliday, Ivar M.
Morton, Eldred O.
Quartullo, Orpheus F., and Baade.
Suozzo, John.
Woodman, Kenneth L.

Weston Electrical Instrument Corporation, assignee: *See*—
Parsegian, Vozcan L., and Swedlow.

Wetzel, Frank O.: *See*—
Knosp, Robert N., Linden, and Wetzel.

Wetzler, Charles E., Long Island City, N. Y. Reed instrument and manufacturing same. 2,592,220, Apr. 8.

Wheel Trueing Tool Company, assignee: *See*—
Bruce, Stanford P.

Wheeler, Charles M.: *See*—
Hendrick, Lloyd M., and Wheeler.

White, Ralph V.: *See*—
Socolofsky, John F., and White.

Whiteman, Benton A., Glen Allen, Va. Bow hairing tool. 2,591,900, Apr. 8.

Whitlock, William R., assignor of one-third to C. W. Adams, Aberdeen, Wash. Whirling roughing and finishing cutterhead machine for debarking logs and the like. 2,591,751, Apr. 8.

Whitted, John B., Evanston, assignor to Stewart-Warner Corporation, Chicago, Ill. Fluid stablizing means for hydraulic control systems. 2,592,221, Apr. 8.

Wickes Bros., a division of The Wickes Corporation, assignee: *See*—
Wickes, Harvey R., Bintz, Kretschmer, and Kendall.

Wickes, Harvey R., C. Bintz, H. A. Kretschmer and G. C. Kendall, assignors to Wickes Bros., a division of The Wickes Corporation, Saginaw, Mich. Depository receptacle for drive-in banks. 2,591,901, Apr. 8.

Wicklund, Harold P., United States Navy. Flight trainer. 2,591,752, Apr. 8.

Wiegand, Francis J.: *See*—
Bynum, George T., Olson, and Wiegand.

Wiener, Robert P.: *See*—
Canziani, Victor J., Silverman, and Wiener.

Wiitala, Edwin S., and D. J. Kridel, assignors to Eastman Kodak Company, Rochester, N. Y. Noncaking photographic acid fixing powders. 2,592,366, Apr. 8.

Wildhaber, Ernest, Rochester, N. Y. Adjustable ratio friction drive. 2,591,753, Apr. 8.

Willcox & Gibbs Sewing Machine Company, assignee: *See*—
Hrisch, George A., and Backlin.

Willcox, Oswin B., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Production of TiO_2 pigments. 2,591,988, Apr. 8.

Willenbring, Paul M., St. Cloud, Minn. Chuck key holder for drill motors. 2,592,094, Apr. 8.

Williams, Herbert B.: *See*—
Smith, Frank E., and Williams.

Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale pendulum. 2,592,499, Apr. 8.

Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Weighing scale pendulum. 2,592,500, Apr. 8.

Williams, Lawrence S., assignor to Toledo Scale Company, Toledo, Ohio. Hydraulic scale capsule. 2,592,501, Apr. 8.

Williams, Ross E., Sandy Hook, assignor to Sperry Products, Inc., Danbury, Conn. Lens system for ultrasonic viewing of defects in objects. 2,592,222, Apr. 8.

Williams, Russell C.: *See*—
Risk, Norman E., Ramsel, and Williams.

Williams, Sidney B., West Caldwell, N. J., assignor to Curtiss-Wright Corporation. Strain responsive gauge. 2,592,223, Apr. 8.

Wilson, Arthur D., Hornchurch, H. B. Oakley, Bromborough, and J. Rourke, Bebington, England, assignors to Lever Brothers Company, Cambridge, Mass. Making margarine and the resulting product. 2,592,224, Apr. 8.

Wilson, Harland D., Toledo, Ohio, and J. H. Quick, Indianapolis, Ind., assignors to Auto-Lite Battery Corporation, Niagara Falls, N. Y. Battery separator. 2,591,754, Apr. 8.

Wilson, Harland D., and C. Popper, Toledo, Ohio, assignors to Auto-Lite Battery Corporation, Niagara Falls, N. Y. Storage battery separator. 2,591,755, Apr. 8.

Wimmer, Glen E., Chicago, Ill. Pencil sharpener. 2,591,756, Apr. 8.

Winkler, Orville R., Fort Worth, Tex. Portable cattle guard. 2,592,225, Apr. 8.

Winn, Philip S., New Orleans, La. Knob equipped door handle construction. 2,592,095, Apr. 8.

Winther, Martin P., Gates Mills, Ohio, assignor to M. P. Winther, as trustee. Centrifugal-electric clutch. 2,591,989, Apr. 8.

Wiremold Company, The, assignee: *See*—
Rejeski, William E.

Wisdom, George P., Exeter, Mo. Beverage carbonating device. 2,591,990, Apr. 8.

Wittcoff, Harold, and W. A. Jordan, Minneapolis, Minn., assignor to General Mills, Inc. Lacquer compositions containing the rosin ester of 2,2,6,6,-tetramethyloicyclohexanol. 2,592,502, Apr. 8.

Wolfe, John S., Milwaukee, Wis. Welding tool. 2,592,505, Apr. 8.

Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Chaise-longue bed combination. 2,592,504, Apr. 8.

Wolpert, Paul L. assignee: *See*—
Barrett, Arthur J.

Wood, George B., Jr., assignor to American Bosch Corporation, Springfield, Mass. Fuel injection system. 2,592,367, Apr. 8.

Woodson, James A.: *See*—
Kimmel, Raymond T., and Woodson.

Woodman, Kenneth L., Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Manufacture of steam irons. 2,592,503, Apr. 8.

Woodruff, Thomas D.: *See*—
McElhinney, Thomas R., and Woodruff.

Woodward, Eric R., New York, N. Y., assignor to Mathieson Chemical Corporation. Improving the color of fats and fatty oils by treatment with chlorine dioxide. 2,592,226, Apr. 8.

Worthington Pump and Machinery Corporation, assignee: *See*—
Nast, Paul H.

Y & S Mfg. Co., assignee: *See*—
Yost, Clarence.

Yackel, Edward C., assignor to Eastman Kodak Company, Rochester, N. Y. Gelatine silver halide emulsion layer containing a dihydroxy diphenyl tanning developing agent. 2,592,368, Apr. 8.

Yanagihara, Thomas, Honolulu, Territory of Hawaii. Garment safety pin fastener. 2,592,506, Apr. 8.

Yeomans, Clifton, Washington, D. C. Combined radial and axial flow multistage turbine. 2,592,227, Apr. 8.

Yohpe, Reinhard A., assignor to Union Steam Pump, Battle Creek, Mich. Washing and cooling means for the plungers of high-pressure hemogenizer pumps and the like. 2,591,902, Apr. 8.

Yost, Clarence, assignor to Y & S Mfg. Co., Hazelton, Pa. Spreading apparatus for flattening tubular fabric. 2,591,903, Apr. 8.

Young, Howard H., Waukegan, and D. A. Loper, Hubbard Woods, assignors to Abbott Laboratories, North Chicago, Ill. Powder inhaler. 2,592,369, Apr. 8.

Young, John C., Pittsburgh, Pa. Tire chain applying tool. 2,592,096, Apr. 8.

Young, Raymond A., Arlington, Va. Helicopter rotor blade. 2,591,757, Apr. 8.

Young, Stephen A., Delphi, Ind. Exposed mixing chamber, mask, retainer, and valve control assembly. 2,591,991, Apr. 8.

Younger, Cousby R., Lilbourn, Mo. Tractor-mounted cotton chopper. 2,592,097, Apr. 8.

Yuba Manufacturing Company, assignee: *See*—
Harris, Robert L., and Lothrop.

Zack, Oscar S., Detroit, Mich. Awning. 2,591,758, Apr. 8.

Zaikowsky, Nina D., assignee: *See*—
Zaikowsky, Wladimir M.

Zaikowsky, Wladimir M., Pasadena, Calif., assignor to N. D. Zaikowsky. Thermal conductivity gas analyzer. 2,591,759, Apr. 8.

Zaikowsky, Wladimir M., Pasadena, Calif., assignor to N. D. Zaikowsky. Gas analysis apparatus. 2,591,760, Apr. 8.

Zaikowsky, Wladimir M., Pasadena, Calif., assignor to N. D. Zaikowsky. Apparatus for gas analysis. 2,591,761, Apr. 8.

Zaikowsky, Wladimir M., Pasadena, Calif., assignor to N. D. Zaikowsky. Gas analysis apparatus. 2,591,762, Apr. 8.

Zenith Radio Corporation, assignee: *See*—
Bridges, Jack E.

Zimdars, John B., deceased, San Francisco, Calif.; H. Grant, executrix. Plier-wrench with guided jaws. 2,592,098, Apr. 8.

Zimmermann, Karl G., assignor to Life Ease Products, Inc., Chicago, Ill. Dust bag for vacuum cleaners. 2,592,507, Apr. 8.

Zinsmaster Baking Company, assignee: *See*—
Werden, Henry J.

Zola, John C., Arcadia, Calif. Coating compositions and preparation therof. 2,591,904, Apr. 8.

Zwilgmeyer, Frithjof, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compounds of the quinopthalone series and their production. 2,592,370, Apr. 8.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Automatic fuel injector. L. O. French. Re. 23,476, Apr. 8.
Electrical translating system and method. R. H. Varian. Re. 23,479, Apr. 8.
Pneumatic cotton harvester. R. Henry. Re. 23,477, Apr. 8.
Producing antihalation photographic article. A. E. Van Dormael and L. A. Van der Auwera. Re. 23,478, Apr. 8.
Treating zinc oxides. J. H. Calbeck. Re. 23,475, Apr. 8.

LIST OF PLANT INVENTIONS

Hybrid tea rose plant. E. G. Fisher. 1,081, Apr. 8.

LIST OF DESIGN INVENTIONS

Axe and hook, Combined. J. G. Oake. 166,408, Apr. 8.
Belt and holsters set, Combined. H. R. Weitzman. 166,433, Apr. 8.
Bicycle, Motor. C. Gilardi. 166,386, Apr. 8.
Board, Game. A. J. Henry. 166,393, Apr. 8.
Bracelet, Expansible. W. C. Boots. 166,373, Apr. 8.
Buckle and lighter, Combined. A. W. Paciello. 166,409, Apr. 8.
Candlestick. K. W. Todd. 166,428, Apr. 8.
Carpet. R. Fleck. 166,384, Apr. 8.
Case, Mezuzah. M. W. Lawsky. 166,400, Apr. 8.
Chain for a wrist watch bracelet or the like, Expansible. W. C. Boots. 166,372, Apr. 8.
Chair. R. Komai. 166,397, Apr. 8.
Chair. J. F. Laskowitz. 166,398, Apr. 8.
Chair, Lounge. M. Manne and J. T. Herzog. 166,402.
Clock frame or similar article. R. C. Glorieux. 166,388, Apr. 8.
Cosmetic container unit. P. L. Schluttig. 166,420, Apr. 8.
Covering for a pail, Plastic. H. M. Wilkoff. 166,434, Apr. 8.
Cravat or similar article. J. Melville. 166,404, Apr. 8.
Demijohn, Nongurgling. C. E. de Sá Cardoso. 166,380, Apr. 8.
Dish and cover, Combined butter. S. H. Slobodkin. 166,421, Apr. 8.
Display stand, Belt. W. E. Stolz. 166,425, Apr. 8.
Earmuff. J. Lattuca. 166,399, Apr. 8.
Fabric, Embroidered eyelet. W. Hallbauer. 166,391, Apr. 8.
Fence and gate, Combined. J. A. Falatico. 166,382, Apr. 8.
Figurine. A. Giovacchimi. 166,387, Apr. 8.
Furniture scarf or similar article. L. Fish. 166,383, Apr. 8.
Glass, Sundae. R. C. Diebenkorn. 166,381, Apr. 8.
Glove. L. Rubin. 166,417, Apr. 8.
Halter, Animal. G. Mackie. 166,401, Apr. 8.
Handle, Lawn mower. C. K. Cole. 166,375, Apr. 8.
Hanger, Drapery. M. Daugull. 166,378, Apr. 8.
Hat. H. F. Stec. 166,423, Apr. 8.
Heel, Shoe. A. Gazda. 166,385, Apr. 8.
Holder for an harmonica and amplifier pickup therefor. E. A. Zielinski. 166,437, Apr. 8.
Holder for photographs or the like. C. L. Curt. 166,376, Apr. 8.
Medallion, Identification. W. Stayback. 166,422, Apr. 8.
Periodical support. W. L. Minick. 166,406, Apr. 8.
Pin. M. P. Roumm, J. W. Gehring, and J. G. Chapman. 166,415–16, Apr. 8.
Planter or similar article. R. C. Sandkuhle. 166,418–19, Apr. 8.
Plate or similar article, Dinner. F. Wagner. 166,430–2, Apr. 8.
Record changer turntable unit. S. E. Adler and J. E. Vistain, Jr. 166,371, Apr. 8.
Shoe or the like. C. Wolfelt. 166,436, Apr. 8.
Shoe or the like, Play. C. R. Stern. 166,424, Apr. 8.
Sign, Illuminable. F. Kasputis. 166,396, Apr. 8.
Sign, Illuminable house. S. Helfenbein. 166,392, Apr. 8.
Slingshot. H. D. McColl. 166,403, Apr. 8.
Spoon or similar article. C. J. Nevelson. 166,407, Apr. 8.
Spoon or the like. N. J. Mercer. 166,405, Apr. 8.
Stand, Multiple burner grill. F. Press. 166,410, Apr. 8.
Stocking. F. C. Rosen. 166,412–14, Apr. 8.
Table. P. C. Curtis. 166,377, Apr. 8.
Tablecloth. F. P. Castorani. 166,374, Apr. 8.
Tablecloth. W. Wolf. 166,435, Apr. 8.
Table mat, Embossed plastic. T. J. Gressitt. 166,389, Apr. 8.
Tool, Cutting. H. G. Herold. 166,394, Apr. 8.
Toothbrush or similar article. A. E. Strock. 166,427, Apr. 8.
Top and backsplasher unit for electric range. L. Guild and F. W. Perl. 166,390, Apr. 8.
Toy antiaircraft gun. J. De Cicco. 166,379, Apr. 8.
Toy cow. N. Hollis. 166,395, Apr. 8.
Vehicle luggage rack lighting fixture. O. W. Rahn. 166,411, Apr. 8.
Visor for rearview mirrors and the like. A. F. Triphahn. 166,429, Apr. 8.
Wall shelf and planter unit, Combination. A. B. Stotter and A. J. Vaiksnoras. 166,426, Apr. 8.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading machine. R. H. Cramer. 2,591,784, Apr. 8.
Abrading machine. G. A. Russell. 2,592,071, Apr. 8.
Abrasion testing machine. C. A. Rounds and P. A. Nester. 2,591,722, Apr. 8.
Acid analyzer and controller. C. L. Persyn, Jr. 2,592,063, Apr. 8.
Adhesive composition and preparing the same. G. S. Casebolt. 2,592,510, Apr. 8.
Adjustable keeper. A. H. Groeger. 2,592,274, Apr. 8.
Adjustable milling cutter. P. J. Blais. 2,592,382, Apr. 8.
Adjustable stop and locking device for shovel loaders. R. C. Osgood. 2,592,457, Apr. 8.
Adjustable supporting leg. T. A. Barham, Sr. 2,591,999, Apr. 8.
Adjusting mechanism for metal drawing presses. E. K. Johansen. 2,592,152, Apr. 8.
Agglomerating finely divided materials. T. Hellmann. 2,592,421, Apr. 8.
Agglomerable iron powder, Manufacture of. L. Neel. 2,592,321, Apr. 8.
Agricultural cutting and processing machine assembly. B. E. Getz. 2,592,269, Apr. 8.
Air cleaner for spraying machines. T. B. Keesling. 2,592,427, Apr. 8.
Aircraft crash marker. L. E. Perkins and G. C. Gettelman. 2,592,461, Apr. 8.
Aircraft engine. A. Chilton. 2,592,119, Apr. 8.
Aircraft gun mount. S. M. Miller. 2,591,960, Apr. 8.
Air-operated pressure indicating controller. E. E. Larson and C. B. Luther. 2,592,043, Apr. 8.
Alkali aluminum fluoride, Manufacture of. E. Brodal and H. Guldhav. 2,592,113, Apr. 8.
Alkyd resin-diisocyanate cellular foamed plastics. E. Simon and F. W. Thomas. 2,591,884, Apr. 8.
Alkyl esters of aminocarbothiolic acids. C. S. Marvel and R. E. Miegel. 2,592,443, Apr. 8.
Alpha-acylamino acrylamides and polymers thereof. H. W. Coover, Jr., and J. B. Dickey. 2,592,248, Apr. 8.
Amino alkanoyl phenothiazine derivatives and the production thereof. J. W. Cusic. 2,591,679, Apr. 8.
Amphoteric cellulose derivatives. C. L. P. Vaughan. 2,591,748, Apr. 8.
Amplitude limiting means for vibration dampers. G. T. Bynum, E. H. Olson, and F. J. Wiegand. 2,592,114, Apr. 8.
Amplitude modulation system. J. M. Villemagne. 2,591,749, Apr. 8.
Analysis of composite gas mixtures, Making. L. V. Guild. 2,591,808, Apr. 8.
Anatomical contact-forming dental matrix band. B. F. Tofflemire. 2,591,744, Apr. 8.
Animal feeds, Producing. J. A. Siefker and J. F. Brasch. 2,592,348, Apr. 8.
Antenna mast assembly, Retractile. G. E. Bader. 2,592,108, Apr. 8.
Antenna, Radio and television. A. C. Denson. 2,591,790, Apr. 8.
Antifriction device for planetary transmissions. H. F. Ridgely and F. A. Crocker. 2,591,967, Apr. 8.
Antikicking device for cows. E. L. McClees. 2,591,958, Apr. 8.
Apparatus and method for handling liquids. L. C. Sackett, J. R. Miller, and R. W. Kelto. 2,592,520, Apr. 8.
Apparatus for cellulose processing. W. H. Bradshaw and W. R. Schmitz, Jr. 2,592,112, Apr. 8.
Apparatus for continuously abrading elongated strands. E. T. Lorig. 2,592,161, Apr. 8.
Apparatus for determining the time of descent of instruments within boreholes. G. L. Kothny. 2,592,295, Apr. 8.
Apparatus for determining the zone of lost circulation of drilling mud. P. E. Chaney and W. E. Barnes. 2,592,378, Apr. 8.
Apparatus for examining threads visually for defects. J. P. Laetsch and P. Litty. 2,592,039, Apr. 8.
Apparatus for fabricating ladders for Venetian blinds. C. J. Delegard. 2,591,923, Apr. 8.
Apparatus for finishing toothed cutting blades. S. I. Sherr. 2,592,344, Apr. 8.
Apparatus for gas analysis. W. M. Zaikowsky. 2,591,761, Apr. 8.
Apparatus for indicating air speed in terms of the local speed of sound. W. J. Orlin, H. M. Heuver, and R. E. Forrester. 2,592,176, Apr. 8.
Apparatus for making dentures. C. S. Ballard. 2,592,376, Apr. 8.
Apparatus for making fibrous cement sheet material. A. Magnani. 2,592,518, Apr. 8.
Apparatus for manufacturing lamellar tubing. P. R. Goldman and R. Alt. 2,591,928, Apr. 8.
Apparatus for melting batch material used in the manufacture of glass. H. Cole, A. R. Green, E. B. Le Mare, and R. F. Taylor. 2,592,010, Apr. 8.
Apparatus for reducing metallic oxides. F. W. de Jahn. 2,591,789, Apr. 8.
Apparatus for subjecting materials to a disintegrating or pulping treatment. K. Wandel. 2,592,215, Apr. 8.
Apparatus for the preheating of pattern plates. R. A. Ronceray. 2,592,340, Apr. 8.
Apparatus for treating fabrics in continuous lengths with liquids. T. H. Hilliard. 2,591,815, Apr. 8.
Apparatus for welding seams in cylindrical vessels. R. E. Hanson. 2,591,809, Apr. 8.
Arrangement for atomizing liquids. P. R. Laguilharre. 2,592,297, Apr. 8.
Article arranging apparatus. D. R. Holdren. 2,592,141, Apr. 8.
Article assembling apparatus. C. J. Hackbarth. 2,592,276, Apr. 8.
Article of manufacture in the form of a picture and making same. G. P. Economakis. 2,592,258, Apr. 8.
Atomizer, Pocket. B. Nachbar. 2,591,962, Apr. 8.
Audible railroad crossing warning signal. S. W. Madden. 2,592,163, Apr. 8.
Automatic brake adjusting means. O. V. Page. 2,592,326, Apr. 8.
Automatic burner control system. P. G. Frerer. 2,592,410, Apr. 8.
Automatic cleaner solution supply for beer distributing systems. F. J. Warcup. 2,591,985, Apr. 8.
Automatic control for electric heaters and other purposes. W. Murray. 2,591,852, Apr. 8.
Automatic control of mobile craft. P. A. Noxon, A. M. MacCallum, and A. Bennett. 2,592,173, Apr. 8.
Automatic guide pin for routing machines. K. Rohrer. 2,592,187, Apr. 8.
Automatic hydraulic speed change mechanism. L. De Dionigi. 2,592,015, Apr. 8.
Automatic record changing talking machine. A. Nicolé and L. Thevenaz. 2,592,323, Apr. 8.
Automatic roll dispenser. H. C. Scogin. 2,592,346, Apr. 8.
Automatic selector, change-over regulator and indicator device. W. R. Eddy and T. A. St. Clair. 2,592,259, Apr. 8.
Awning. O. S. Zack. 2,591,758, Apr. 8.
Bark hack and attachment for holding a spray bottle. A. A. Murphy. 2,591,716, Apr. 8.
Barking drum. F. A. Mertz and R. S. Walker. 2,592,054, Apr. 8.
Battery, Portable. W. Y. Stamper. 2,592,207, Apr. 8.
Battery separator. H. D. Wilson and J. H. Quick. 2,591,754, Apr. 8.
Bearing: *See*—
Self-lubricating radial and thrust bearing.
Bearing. W. H. Korn. 2,592,294, Apr. 8.
Bearing for gauge cutters of rotary rock bits. O. Hammer. 2,592,277, Apr. 8.
Bearing for transmission mechanism. L. Palazzo. 2,592,178, Apr. 8.
Bedpan. A. E. M. Mitchell. 2,591,850, Apr. 8.
Bed, Safety. C. C. McLean and S. A. Davis. 2,592,166, Apr. 8.
Benzoylpolyglutamic acid amides and preparation of the same. J. H. Mowat and C. W. Waller. 2,592,454, Apr. 8.
Bermuda type metal shingled roof. C. F. Sperry. 2,592,482, Apr. 8.
Beverage carbonating device. G. P. Wisdom. 2,591,990, Apr. 8.
Bin batching plant. W. S. Crawford and A. S. Graham. 2,591,785, Apr. 8.
Blade sawing apparatus, Dual reciprocating. E. D. Tompkins. 2,591,747, Apr. 8.
Board: *See*—
Electrical bingo game board.
Bobber for use in casting for fish. C. L. Louthan. 2,592,441, Apr. 8.
Bobbin winder for sewing machines. G. B. Hirsch and C. R. Backlin. 2,592,516, Apr. 8.
Boiler with indirectly heated domestic supply, Return fire tube. A. E. Watts. 2,592,216, Apr. 8.

Bonded asbestos and making the same. J. S. Thompson. 2,592,521, Apr. 8.
Bookrest. F. de Coste. 2,592,252, Apr. 8.
Bottle lifter. O. L. Engstrom. 2,592,017, Apr. 8.
Bow hairing tool. B. A. Whiteman. 2,591,900, Apr. 8.
Bracelet, Expansible. F. L. Brecht. 2,591,778, Apr. 8.
Brassière. E. M. Fyffe. 2,592,265, Apr. 8.
Brazing thin brass members. H. W. Alexander. 2,591,994, Apr. 8.
Brushes, Method of and apparatus for making. L. F. Kutik. 2,592,296, Apr. 8.
Buckle with pivoted tongue. H. E. David. 2,591,787, Apr. 8.
Building unit. E. L. Chamberlain. 2,592,244, Apr. 8.
Buib changer. J. A. McDermott. 2,592,165, Apr. 8.
Cable gripper for suspended vehicles, Automatic. V. Dachkevitch. 2,591,680, Apr. 8.
Cable laying sheave. P. B. Benner. 2,591,770, Apr. 8.
Cable with embossed tape, Gas-filled power. L. C. Ebel. 2,591,794, Apr. 8.
Cage construction for planetary gearing. C. T. Thompson. 2,591,743, Apr. 8.
Caging means for gyroscopes having two displacement axes. W. A. Stone. 2,591,741, Apr. 8.
Calendar, Clock operated perpetual. J. Lind. 2,592,047, Apr. 8.
Calk for pneumatic vehicle tires, Adjustable. A. Jaern and L. Eriksen. 2,592,150, Apr. 8.
Can sorting machine. H. J. Emerson, R. J. O'Connor, and G. A. Emery. 2,592,260, Apr. 8.
Carpet tufting and pile cutting device. T. K. Holmen. 2,591,939, Apr. 8.
Carpet tufting machine. R. C. Kline. 2,591,944, Apr. 8.
Carton for making ice-cream sandwiches. P. I. Henderson. 2,591,812, Apr. 8.
Cartridge loading device. A. J. Grogan. 2,592,415, Apr. 8.
Case: *See*—
Fishing rod carrying case. Refrigerated display case.
Case for portable batteries, Carrying. W. Y. Stamper. 2,592,209, Apr. 8.
Casting apparatus for film support or sheeting. G. F. Nadeau and A. M. Glasoe. 2,592,319, Apr. 8.
Catalyst regeneration apparatus. C. C. Peavy and R. M. Shirk. 2,591,719, Apr. 8.
Catalytic contacting tower. E. L. Sinclair and W. A. Hagerbaumer. 2,592,479, Apr. 8.
Catalytic isomerization of hydrocarbons. J. W. Loy. 2,591,843, Apr. 8.
Cathode-ray tube voltage measuring device. B. F. Spencer. 2,591,738, Apr. 8.
Cattle guard, Portable. O. R. Winkler. 2,592,225, Apr. 8.
Cellulosic textile fabric. A. Johnson and J. B. Speakman. 2,592,154, Apr. 8.
Cement, Manufacture of. W. A. Rex and C. L. Read. 2,592,468, Apr. 8.
Centrifugal-electric clutch. M. P. Winther. 2,591,989, Apr. 8.
Chain saw depth gauge. J. M. Hanson, Sr. 2,592,278, Apr. 8.
Chair: *See*—
Collapsible commode chair. Motor - driven invalid's chair.
Invalid chair.
Chair for handicapped persons. J. J. Block. 2,591,911, Apr. 8.
Chaise-longue bed combination. E. E. Woller. 2,592,504, Apr. 8.
Changing device for internal-combustion engines. E. F. R. Townshend. 2,591,892, Apr. 8.
Chest or container structure. M. Schoen. 2,591,726, Apr. 8.
Chewing gum dispenser. J. E. Nicholson. 2,591,855, Apr. 8.
Children's domestic utensil set. E. Nudelman. 2,592,456, Apr. 8.
Chill casting brass and other copper alloys containing zinc. N. D. G. Robertson and G. W. Browse. 2,592,337, Apr. 8.
Chimney and means for supporting same. R. F. Van Alstyne. 2,592,084, Apr. 8.
Chimney structure. J. Altmann. 2,591,906, Apr. 8.
Chopper, Tractor-mounted cotton. C. R. Younger. 2,592,097, Apr. 8.
Chuck key holder for drill motors. P. M. Willenbring. 2,592,094, Apr. 8.
Cigar-making machine. A. L. Petri. 2,592,065, Apr. 8.
Circuit: *See*—
Electric welding supply circuit.
Feedback amplifier circuit.
Gas tube circuit.
Modulator circuit.
Pulse counter circuit.
Pulse energized gas tube circuit.
Self-sustaining gas tube circuit.
Circuit arrangement for the stabilization of alternating current voltages. G. Mak and A. W. Storm. 2,591,955, Apr. 8.
Circuit arrangement, including a cathode-ray tube comprising cathode-ray beam deflecting means. A. J. W. M. van Overbeek, Z. van Geider, and J. L. H. Jonker. 2,591,981, Apr. 8.
Circuit arrangement, Mixing. A. van Weel. 2,591,983, Apr. 8.
Circuit breaker, Compressed gas operated. H. Thommen and A. Amstutz. 2,592,079, Apr. 8.
Circuit control for electric appliances, Heating. W. R. McDowell. 2,591,849, Apr. 8.
Circuit for grid-controlled gas discharge tubes, Phase-shift. J. H. Lucas. 2,591,952, Apr. 8.
Circuit interrupter. S. I. Lindell. 2,591,950, Apr. 8.
Circular end shield for mixer rotors. S. Bolling. 2,592,004, Apr. 8.
Clamp for drill collars, Safety. W. A. Abegg. 2,591,763, Apr. 8.
Clasp, Ham guide. W. Weeks. 2,592,362, Apr. 8.
Cleaning apparatus. E. O. Morton. 2,592,314, Apr. 8.
Cleaning furs. N. Root. 2,591,663, Apr. 8.
Cleansing tissue dispenser. S. P. Drees. 2,592,255, Apr. 8.
Clip: *See*—
Hose holding clip.
Knitting needle clip.
Spring clip.
Close-nesting snap retainer for Venetian blinds. B. Walker. 2,591,750, Apr. 8.
Closed electric furnace. A. H. Ingelsrud. 2,592,517, Apr. 8.
Closure and fastening means. S. P. Kinney and L. M. Hartwick. 2,592,431, Apr. 8.
Closure control device. C. W. Gray. 2,592,137, Apr. 8.
Cloth material spreader. W. E. La Pedus. 2,592,437, Apr. 8.
Clothesline tensioning device. C. P. Green. 2,591,930, Apr. 8.
Clothespin holder of apron type. N. K. Wallace. 2,592,087, Apr. 8.
Clutch: *See*—
Centrifugal-electric clutch.
Over center cam engaged clutch.
Clutch means for phonograph records. E. H. Guboff. 2,592,026, Apr. 8.
Coating compositions and preparation thereof. J. C. Zola. 2,591,904, Apr. 8.
Cockpit for aircraft, Detachable pilot's. C. W. Prower and T. G. Guppy. 2,591,867, Apr. 8.
Codispersions of polytetrafluoroethylene and hydrous oxides. C. K. Ikeda. 2,592,147, Apr. 8.
Coin-controlled apparatus. A. G. Rowe. 2,591,968, Apr. 8.
Cold-setting resinous cements. F. R. Himsworth and H. Hughes. 2,592,034, Apr. 8.
Collapsible commode chair. H. A. Everest and H. C. Jennings. 2,592,405, Apr. 8.
Collapsible table. M. P. Exline and C. L. Ruhl. 2,591,797, Apr. 8.
Collapsible tubing. W. E. Rejeski. 2,592,335, Apr. 8.
Comb cleaner embodying a casing and spring retracted flexible element. F. E. Hummel. 2,592,145, Apr. 8.
Combustion control apparatus. D. M. Borden and P. T. Nims. 2,592,385, Apr. 8.
Communication system employing pulse code modulation. A. J. H. Oxford. 2,592,061, Apr. 8.
Commutators, Manufacturing. P. W. Nippert. 2,592,172, Apr. 8.
Composition of matter for making molded phonograph records. T. R. McElhinney and T. D. Woodruff. 2,592,051, Apr. 8.
Compounds of the quinophthalone series and their production. F. Zwilgmeyer. 2,592,370, Apr. 8.
Compressor head assembly. O. H. Scheldorf. 2,592,343, Apr. 8.
Concentrated banana products, Preparing. L. Reale. 2,592,332, Apr. 8.
Condensation process. C. Weizmann. 2,592,365, Apr. 8.
Condenser for long draft spinning. R. R. Pope. 2,591,866, Apr. 8.
Connector. E. J. Herbenar. 2,592,280, Apr. 8.
Construction of slips. A. Friedman. 2,591,799, Apr. 8.
Container and mixer for beverages. C. B. Stair. 2,592,485, Apr. 8.
Containers, Making. H. A. Toulmin, Jr. 2,592,081, Apr. 8.
Continuous process for the production of anhydrous Glauber's salt. H. J. Hegan. 2,592,139, Apr. 8.
Continuous process of preparing and metal coating rolled steel. R. Hodil. 2,592,282, Apr. 8.
Continuous proportional sampler. N. Plank. 2,592,464, Apr. 8.
Continuous setting of knitted fabrics formed of thermoplastic material, Method and apparatus for the. K. E. Pannaci. 2,591,861, Apr. 8.
Contra-angle retainer for use with gingival-aperture and cusp-replacing dental matrix bands. B. F. Toffemire. 2,591,745, Apr. 8.
Control device for gaseous fuel burners. H. W. Rice. 2,591,870, Apr. 8.
Controlling combustion of internal-combustion engines. W. R. Hopkins. 2,592,284, Apr. 8.
Conveyer and gatherer for grain, Portable. A. G. Slocum. 2,592,480, Apr. 8.
Conveyer apparatus. O. Grosvenor. 2,592,275, Apr. 8.
Conveyer belt apparatus. T. S. Skillman. 2,591,971, Apr. 8.
Conveyer belt supporting means. D. C. Owens. 2,591,860, Apr. 8.
Conveyer having retractable flights, Endless. H. J. Werden. 2,591,987, Apr. 8.
Conveyer trough. A. G. Granath. 2,591,929, Apr. 8.
Cooker, Brewer's cereal. F. Muller. 2,592,170, Apr. 8.
Copolymers of allyl acetamides. C. A. Welsgerber. 2,592,218, Apr. 8.
Corrugation drilling tool. P. C. Kline, H. P. Crook, and A. T. Van Cutsem. 2,592,432, Apr. 8.

Coupling: *See*—
Flexible coupling.
Coupling. U. A. Alfredéen. 2,592,103, Apr. 8.
Coupling device. D. M. Lowe. 2,591,707, Apr. 8.
Cover locking mechanism. M. E. Brown. 2,592,239, Apr. 8.
Crank-case ventilator valve. R. C. Beckett. 2,592,380, Apr. 8.
Cravat holder. E. A. Johnson. 2,592,155, Apr. 8.
Crayon or the like holder and feeding tube. G. B. Knuff. 2,591,831, Apr. 8.
Cultivator, Adjustable disk garden. M. S. Hoenshell. 2,592,423, Apr. 8.
Current-limiting fuse. W. S. Edsall, K. W. Swain, and F. J. Kozacka. 2,592,399, Apr. 8.
Cutter: *See*—
Adjustable milling cutter.
Cutting device for moving strip. J. Gerbe. 2,592,268, Apr. 8.
Cutting machine, Metal. J. Anderson. 2,591,765, Apr. 8.
Cylinder, Decatising. G. G. Hennig. 2,591,813, Apr. 8.
Deasphaltizing oils. K. A. Fischer. 2,591,690, Apr. 8.
Decoder for pulse code modulation receivers. E. W. Adams, Jr. 2,592,228, Apr. 8.
Decomposition product deposit reduction. A. E. Lacomblé. 2,592,435, Apr. 8.
Dehydration of alcohols by extractive distillation. W. E. Catterall. 2,591,671, Apr. 8.
Dehydration of alcohols by gasoline extractive distillation. W. E. Catterall. 2,591,672, Apr. 8.
Deicing system for propellers. C. W. Chillson and W. E. Brigham, Jr. 2,592,118, Apr. 8.
Demodulator. J. M. Cluwen. 2,581,917, Apr. 8.
Demountable structure. C. G. Thorsen. 2,591,891, Apr. 8.
Dental articulator. O. M. Johnson. 2,592,288, Apr. 8.
Dental instrument holder. C. G. King. 2,592,292, Apr. 8.
Denture locating mechanism. D. V. Cleman. 2,591,678, Apr. 8.
Deodoriser, Water closet. F. A. Huff. 2,591,817, Apr. 8.
Detection of oil in mud-laden well drilling fluids. R. E. Souther, Jr. 2,591,737, Apr. 8.
Determining breath alcohol contents. G. C. Forrester. 2,591,691, Apr. 8.
Device for adjusting the return travel of fluid actuated means. M. O. and B. M. Dubois. 2,591,793, Apr. 8.
Device for indicating contents of freight cars. W. H. Joyner. 2,592,289, Apr. 8.
Device for use in protecting buildings against termites. C. B. Gallant. 2,592,022, Apr. 8.
Dewaxing oil and continuous rotary filter therefor. J. P. Thompson. 2,592,490, Apr. 8.
Dial, Illuminated tuning. G. J. Barry. 2,591,667, Apr. 8.
Diphenyl ethers and preparing same. E. T. Borrows. 2,591,776, Apr. 8.
Dispatcher-controlled elevator system. J. Suozzo. 2,591,978, Apr. 8.
Dispenser: *See*—
Automatic roll dispenser.
Chewing gum dispenser.
Cleansing tissue dispenser.
Liquid soap dispenser.
Variable-strength beverage dispenser.
Diuretic mercury compounds. A. Halpern. 2,592,418, Apr. 8.
Door and hinge structure, Oven. H. M. Reeves. 2,592,333, Apr. 8.
Door check. L. G. Allen. 2,592,230, Apr. 8.
Door for truck bodies. C. F. Hagerup. 2,592,027, Apr. 8.
Door handle construction, Knob equipped. P. S. Winn. 2,592,095, Apr. 8.
Door opener, Automatic. J. J. Gatesy. 2,591,693, Apr. 8.
Door stop mechanism. E. Schwarzkopf. 2,592,073, Apr. 8.
Double-impregnation method of producing a pelleted catalyst. W. F. Engel. 2,592,016, Apr. 8.
Drawbar operable transmission mechanism. J. E. Tom. 2,591,746, Apr. 8.
Drier: *See*—
Hair drier.
Drive shaft means for colloid mills. G. H. Rider. 2,591,966, Apr. 8.
Dry cell seal closure. V. A. Lee. 2,592,439, Apr. 8.
Dry shaver. R. M. Hvid. 2,592,146, Apr. 8.
Dust bag for vacuum cleaners. K. G. Zimmermann. 2,592,507, Apr. 8.
Dynamic braking control. R. M. Dilworth. 2,591,791, Apr. 8.
Dynamoelectric machine and control. L. M. Hendrick and C. M. Wheeler. 2,592,522, Apr. 8.
Earth auger. N. M. Erdahl. 2,592,402, Apr. 8.
Ejector cooling shroud for use on the exhaust systems of turbojet aircraft engines. H. H. Clayton, Jr. 2,591,676, Apr. 8.
Electric glass furnace. E. Lubatti. 2,591,708, Apr. 8.
Electric impulse collecting and registering installation. R. Milburn. 2,592,312, Apr. 8.
Electric proportioning controller with pneumatic reset. W. H. Wannamaker, Jr., and D. P. Eckman. 2,582,088, Apr. 8.
Electric snap switch. F. J. Trainor. 2,592,357, Apr. 8.
Electric weft detecting system for drop box looms. V. F. Sepavich and R. A. Donnan. 2,592,199, Apr. 8.
Electric weft detecting system for shifting shuttle box looms. R. A. Donnan. 2,592,126, Apr. 8.
Electric welding supply circuit. C. E. Slade and A. Kershaw. 2,591,972, Apr. 8.
Electric wire insulator support. D. D. Harding. 2,592,030, Apr. 8.
Electrical apparatus for detecting the presence of moving objects. J. Collard. 2,591,919, Apr. 8.
Electrical bingo game board. B. C. Quimby. 2,591,869, Apr. 8.
Electrical contact. G. Deakin. 2,591,684, Apr. 8.
Electrical device enclosed within envelopes, Thermally adjustable. A. H. Atherton. 2,591,907, Apr. 8.
Electrical light-transmission controlling arrangement. H. Jaffe. 2,591,701, Apr. 8.
Electrical logging. C. B. Aiken. 2,592,101, Apr. 8.
Electrical precipitator. J. Phyl. 2,592,508, Apr. 8.
Electrical time-delay network. S. V. Hart. 2,591,810, Apr. 8.
Electrolytic cell. F. E. Smith and H. B. Williams. 2,592,483, Apr. 8.
Electrolytic production of fluorine. W. N. Howell and H. Hill. 2,592,144, Apr. 8.
Electromagnetic actuator for contactors and circuit breakers. A. Blanchet. 2,591,773, Apr. 8.
Electromagnetic balance accelerometer. R. L. Cosgriff and E. L. Walls, Jr. 2,591,921, Apr. 8.
Electron counter circuits. I. E. Grosdoff. 2,591,931, Apr. 8.
Electron discharge amplifier device employing hollow resonator. N. C. Barford. 2,591,910, Apr. 8.
Electron discharge apparatus. F. B. Llewellyn. 2,591,842, Apr. 8.
Electron discharge device. W. R. Ferris. 2,592,408, Apr. 8.
Electron discharge device and circuit. L. S. Nergaard. 2,591,963, Apr. 8.
Electron discharge device utilizing cavity resonators. J. M. Stinchfield. 2,591,976, Apr. 8.
Electron gun and mounting therefor. V. C. Campbell. 2,592,242, Apr. 8.
Electron tube device. N. E. G. Backmark. 2,591,997, Apr. 8.
Electronic discharge tube system for animated or flowing electric signs and display devices. R. H. Seaman. 2,591,729, Apr. 8.
End-folding machine. W. S. Cloud. 2,592,246, Apr. 8.
Engine: *See*—
Aircraft engine.
Engine starter. S. Gilbert. 2,592,271, Apr. 8.
Esters of cyclopentanoperhydrophenanthrene-3-malonic acids. E. Kaiser and J. Svars. 2,592,036, Apr. 8.
Exposed mixing chamber, mask, retainer, and valve control assembly. S. A. Young. 2,591,991, Apr. 8.
Extractive distillation of alcohol-containing mixtures. C. E. Morrell, C. S. Carlson, and P. V. Smith, Jr. 2,591,713, Apr. 8.
Extractive distillation of close-boiling organic compounds from their liquid mixtures. C. E. Morrell and N. C. Robertson. 2,591,712, Apr. 8.
Extractor for firearms. C. E. Simpson. 2,591,733, Apr. 8.
Extreme pressure lubricant. W. E. Waddey and E. B. Cyphers. 2,592,497, Apr. 8.
Fabric: *See*—
Cellulosic textile fabric.
Textile fabric.
Face mask for protection against dust and the like. T. T. MacLean. 2,591,953, Apr. 8.
Fan, Axial flow. J. G. Sawyer. 2,592,471, Apr. 8.
Fastener: *See*—
Garment safety pin fastener.
Recessed head fastener.
Feedback amplifier circuit. H. A. Broos. 2,591,915, Apr. 8.
Feed control for automatic weighers. E. J. Vagim. 2,592,083, Apr. 8.
Feed preparation device. J. O. Allstott. 2,592,231, Apr. 8.
Feed saving attachment. W. O. Cumming. 2,592,012, Apr. 8.
Feed table for rolled sheet stock, Adjustable. B. E. Rockhoff. 2,592,469, Apr. 8.
Fence for jointers. W. B. Boice. 2,592,384, Apr. 8.
Fiber beater for the liberation of cellulose fibers. A. M. Spencer, A. Jacobson, and K. Sixt. 2,592,481, Apr. 8.
Filaments from acrylonitrile-2-methallyl alcohol polymer, Production of. J. R. Caldwell. 2,591,670, Apr. 8.
Filling machine. R. J. Stewart and F. S. Bell. 2,591,739, Apr. 8.
Film developing rack. J. Stoiber. 2,592,354, Apr. 8.
Film transport means for motion-picture projectors. M. R. Hutchison, Jr. 2,592,285, Apr. 8.
Filter unit, Rotary leaf. C. L. Peterson. 2,591,720, Apr. 8.
Filtering element, Liquid. H. M. Arakelian. 2,592,104, Apr. 8.
Fire extinguisher, Dry powder. E. H. Hansen. 2,592,029, Apr. 8.
Fish lure. S. E. McCarthy. 2,592,445, Apr. 8.
Fish lure, Quick-change bait casting. A. R. Munson, Sr. 2,592,171, Apr. 8.
Fishing line washing and drying apparatus. G. F. Holtz and S. Bernstein. 2,592,143, Apr. 8.
Fishing pole holder. P. V. Maze. 2,592,306, Apr. 8.
Fishing rod carrying case. W. R. Chalker. 2,591,674, Apr. 8.
Flexible coupling. J. S. Beechler. 2,591,769, Apr. 8.
Flexible coupling. D. R. Meier. 2,592,309, Apr. 8.
Flexible leaf hinge. A. V. Frohnapel. 2,592,411, Apr. 8.
Flexible shaft. F. A. Monahan. 2,592,055, Apr. 8.

Flight trainer. H. P. Wicklund. 2,591,752, Apr. 8.
Fluid pressure controlling mechanism. B. Jorgensen. 2,591,827, Apr. 8.
Fluid proportioning device. A. J. Lubeley. 2,592,304, Apr. 8.
Fluid stabilizing means for hydraulic control systems. J. B. Whitted. 2,592,221, Apr. 8.
Fluorocarbon vinyl esters and polymers. T. S. Reid. 2,592,069, Apr. 8.
Focusing device. J. P. Quam. 2,592,185, Apr. 8.
Footrest for wheel chairs, Removable. J. C. Miller. 2,592,449, Apr. 8.
Forming a machining lubricant upon molybdenum. D. B. Bowen. 2,591,777, Apr. 8.
Forming means for profile grinding wheels. C. B. A. Porter. 2,591,964, Apr. 8.
Frequency stabilization of radio frequency generators. H. L. Donley. 2,591,792, Apr. 8.
Friction shock absorber for railway car trucks. G. E. Dath. 2,591,922, Apr. 8.
Frost removing arrangement for refrigerator cabinets. L. W. Atchison. 2,592,233, Apr. 8.
Fuel injection pump. C. F. High. 2,592,281, Apr. 8.
Fuel injection system. G. B. Wood, Jr. 2,592,367, Apr. 8.
Function printer. A. F. Fairbanks. 2,592,048, Apr. 8.
Furnace: *See*—
Closed electric furnace. Electric glass furnace.
Furnace electrode. E. Lubatti. 2,591,709, Apr. 8.
Furnace, particularly of the forced-draft type, Hot-air. J. A. Dahlstrom. 2,592,396, Apr. 8.
Furnace roof or arch. J. E. Pluck. 2,592,184, Apr. 8.
Furnace wall, Lined. W. Sampson. 2,591,723, Apr. 8.
Fuse housing construction. S. I. Lindell and C. E. Schultheiss. 2,591,949, Apr. 8.
Fused cyclic thiophene compounds, Production of. R. F. McCleary and L. W. Devaney. 2,591,710, Apr. 8.
Galvanic water correction device. T. C. Jones. 2,591,826, Apr. 8.
Gambrel, Foldable. E. J. Nederostek. 2,592,059, Apr. 8.
Game device, Ball-actuated racing. W. A. Malkan. 2,591,956–7, Apr. 8.
Garment safety pin fastener. T. Yanagihara. 2,592,506, Apr. 8.
Garment tensioning means. M. M. Isaacs. 2,592,148, Apr. 8.
Gas analysis apparatus. W. M. Zaikowsky. 2,591,760, Apr. 8.
Gas analysis apparatus. W. M. Zaikowsky. 2,591,762, Apr. 8.
Gas analyzer, Thermal conductivity. W. M. Zaikowsky. 2,591,759, Apr. 8.
Gas by-pass for crude oil storage tanks. W. C. Sanders. 2,592,072, Apr. 8.
Gas mixture containing carbon monoxide and hydrogen, Manufacture of. F. T. Barr and H. Z. Martin. 2,592,377, Apr. 8.
Gas tube circuit. E. O. Johnson and W. M. Webster, Jr. 2,591,825, Apr. 8.
Gas turbine system with means providing for expansion and contraction. H. A. Altorfer. 2,592,372, Apr. 8.
Gate: *See*—
Side-plug hydraulic cellar gate.
Gate of barrage, Hydraulic. F. Jermáť. 2,592,287, Apr. 8.
Gauge: *See*—
Chain saw depth gauge. Strain responsive gauge.
Interferometer gauge. Tide gauge.
Pilot gauge. Twist drill gauge.
Shaft gauge.
Gauge for measuring curved surfaces. E. C. Moss. 2,592,316, Apr. 8.
Gauging and assorting device, Automatic. G. H. Kendall. 2,592,157, Apr. 8.
Gear construction, Planetary. N. A. Smith and K. L. Darrah. 2,591,734, Apr. 8.
Gelatine silver halide emulsion layer containing a dihydroxy diphenyl tanning developing agent. E. C. Yackel. 2,592,368, Apr. 8.
Generating electric traction and control system. T. O. Lilliquist. 2,591,840, Apr. 8.
Generator: *See*—
Impulse generator. Television test signal generator.
Self-sustaining sawtooth current generator.
Glass cutting device. C. K. Judd, Jr. 2,591,828, Apr. 8.
Globular protein solutions, Preparation of. J. R. Caldwell. 2,592,120, Apr. 8.
Glove. B. Kennedy. 2,591,905, Apr. 8.
Glucuronic acid and derivatives thereof, Preparation of. D. M. Gallagher. 2,592,266, Apr. 8.
Gluing a plurality of wooden elements comprising curing a urea formaldehyde adhesive by means of high-frequency heating. E. E. Bergey. 2,591,771, Apr. 8.
Golf club. T. F. Curley. 2,592,013, Apr. 8.
Gripping device. H. C. Otis. 2,591,859, Apr. 8.
Guide shell. W. J. Delp. 2,592,253, Apr. 8.
Gun loading mechanism. J. E. Walsh and C. W. Greene. 2,591,896, Apr. 8.
Gyroscope control system for dirigible craft. I. M. Holliday. 2,591,938, Apr. 8.
Gyrostabilizing system. H. E. Hale. 2,592,417, Apr. 8.
Hair drier. W. H. Bucknell and E. Miessmer. 2,591,669, Apr. 8.
Hair parting device. J. Lakeland. 2,591,835, Apr. 8.
Hairpin holder. R. E. Ratliff. 2,592,186, Apr. 8.
Hall effect device. W. C. Dunlap, Jr. 2,592,257, Apr. 8.
Halophosphate phosphors. G. R. Fonda. 2,592,261, Apr. 8.
Handkerchief, Pocket. B. G. Hicks. 2,592,033, Apr. 8.
Handle: *See*—
Latch releasing door handle.
Hanger: *See*—
Universal electric fixture hanger.
Hard-faced metal, Producing. G. J. Gibson. 2,592,414, Apr. 8.
Harvesting machine, Onion. N. Perry and S. Schultz. 2,592,328, Apr. 8.
Hay feed cutoff for bailing machines. A. J. and L. G. Seegers. 2,591,970, Apr. 8.
Headrest, Bathtub. J. Kunes. 2,592,160, Apr. 8.
Heat exchange device. H. T. Booth. 2,591,774, Apr. 8.
Heater. F. W. Edwards. 2,592,400, Apr. 8.
Heater for oil well treating apparatus, Fluid. A. C. Russell. 2,591,879, Apr. 8.
Heating oil, Preparing. L. J. Blatz. 2,592,383, Apr. 8.
Heating plug. J. Langerman. 2,592,042, Apr. 8.
Heating system, Aircraft. R. L. Linforth and S. D. Hage. 2,592,049, Apr. 8.
Helicopter rotor blade. R. A. Young. 2,591,757, Apr. 8.
Helix former. H. L. Kitselman. 2,591,943, Apr. 8.
Heterocyclic nitrogen compounds. G. Schwarz and P. F. De Smet. 2,592,195, Apr. 8.
High-density beam control. L. M. Field. 2,591,689, Apr. 8.
High-frequency apparatus. R. R. Law. 2,591,947, Apr. 8.
High-frequency electron tube structure. W. W. Hansen. 2,591,696, Apr. 8.
High-frequency radiator apparatus and resonator. W. W. Hansen. 2,591,695, Apr. 8.
High molecular weight resinous and plastic materials having an aromatic structure, Production of. R. B. Thompson and L. Schmerling. 2,591,890, Apr. 8.
Hinge. D. H. Walsh. 2,591,984, Apr. 8.
Holder: *See*—
Cravat holder. Magnetic necktie holder.
Dental instrument holder. Price tag or ticket holder.
Fishing pole holder. Strip holder.
Hairpin holder.
Holder and kit, Nursing bottle. F. L. Turner. 2,592,212, Apr. 8.
Holder device for end-capped electrical discharge tubes provided with starter switches. E. G. Holm. 2,592,142, Apr. 8.
Holder for implements. H. E. Gossett. 2,591,805, Apr. 8.
Holder for sticks. G. P. Peterson and E. Noyack. 2,592,064, Apr. 8.
Holder for sticks. G. P. Peterson and E. Noyack. 2,592,183, Apr. 8.
Hole locating device. J. W. Hill. 2,591,814, Apr. 8.
Hook: *See*—
Window screen hook.
Hook for curtains. H. Sherman. 2,592,478, Apr. 8.
Hooping railway sleepers. A. P. and M. J. M. Streit. 2,592,077, Apr. 8.
Hopper car frame structure, Manufacture. G. B. Dorey. 2,591,924, Apr. 8.
Hose holding clip. J. A. Megla. 2,592,053, Apr. 8.
Hydraulic control valve. D. B. Gardiner. 2,591,800, Apr. 8.
Hydraulic force measuring device with electrical indicator. A. J. F. Clement and J. W. Kettl. 2,592,009, Apr. 8.
Hydraulic metering fuse. D. A. Stark. 2,592,486, Apr. 8.
Hydraulic moving, positioning, and holding mechanism. E. W. Bereit. 2,592,001, Apr. 8.
Hydraulic roll positioner. G. R. Linden. 2,592,048, Apr. 8.
Hydraulic scale capsule. L. S. Williams. 2,592,501, Apr. 8.
Hydraulic system. H. W. Rockwell. 2,592,338, Apr. 8.
Hydraulically operated regulator mechanism for vehicle windows or the like utilizing engine starter motor. J. B. Parsons. 2,592,180, Apr. 8.
Hydrazine, Manufacture of. E. Solomon. 2,591,735, Apr. 8.
Hydrocarbon conversion. L. P. Evans. 2,592,404, Apr. 8.
Hydrocarbon feed stocks containing asphaltic material for catalytic cracking, Preparing. L. P. Evans. 2,592,403, Apr. 8.
Hydrohalogenation of unsaturated conjunct polymers. C. B. Linn. 2,591,841, Apr. 8.
Ice-cream freezer support. W. W. Varnado. 2,592,495, Apr. 8.
Illuminated speculum. H. S. Rubens and I. Suwa. 2,592,190, Apr. 8.
Impedance transformer, Adjustable. J. M. van Hofweegen and K. S. Knol. 2,591,980, Apr. 8.
Implement, Agricultural. A. J. Milla. 2,591,851, Apr. 8.
Improving the color of fats and fatty oils by treatment with chlorine dioxide. E. R. Woodward. 2,592,226, Apr. 8.
Impulse generator. E. H. Hugenholtz. 2,591,940, Apr. 8.
Indicating device for radioactivity intensity. E. J. Groth, Jr. 2,592,416, Apr. 8.

Indicator: *See*—
Nutrition indicator.
Pulse echo distance indicator.
Indicator dial operating mechanism. R. N. Knosp, C. E. Linden, and F. O. Wetzel. 2,592,433, Apr. 8.
Incinerating unit, Garbage. F. C. Toepel. 2,592,491, Apr. 8.
Inert gas shielded arc welding method. G. J. Gibson and G. R. Rothschild. 2,591,926, Apr. 8.
Inflatable aerial projection display device. J. J. Matelena. 2,592,444, Apr. 8.
Initiation by ammonia or amines of amino acid N-carboanhydride condensation polymerizaton. R. N. MacDonald. 2,592,447, Apr. 8.
Injector for internal-combustion engines. B. Bischof. 2,592,111, Apr. 8.
Inspecting solid parts by supersonic shear waves. F. A. Firestone. 2,592,135, Apr. 8.
Inspirator and gas burner, Combined. D. A. Campbell and R. M. Buck. 2,592,007, Apr. 8.
Instrument and manufacturing same, Reed. C. E. Wetzler. 2,592,220, Apr. 8.
Instrument, Bubble-forming writing. C. F. Ritchie. 2,591,874, Apr. 8.
Instrument, Frequency measuring. A. F. Bischoff. 2,592,235, Apr. 8.
Insulating fastening device. G. H. Erb, J. J. Dwyer, and A. G. Kolessar. 2,592,130, Apr. 8.
Interchangeable adjustable resistance unit. V. J. Canziani, D. C. Silverman, and R. P. Wiener. 2,592,392, Apr. 8.
Interferometer gauge. W. H. Barkas and W. E. Buck. 2,591,666, Apr. 8.
Intermittent operating mechanism. J. Erwood. 2,591,796, Apr. 8.
Intermittently actuated distributor dispensing valve. E. Voges. 2,591,894, Apr. 8.
Invalid chair. A. M. McC. Gray. 2,592,025, Apr. 8.
Iodinated aminophenylsulfonylamino carboxylic acids. S. Archer. 2,592,105, Apr. 8.
Iron: *See*—
Soldering iron. Traveling iron.
Iron blue pigments, Manufacture of. J. O. Morrison and B. H. Perkins. 2,592,169, Apr. 8.
Jack: *See*—
Scaffold jack.
Jack for handling rod strings or the like in wells, Hydraulic. Edwin A. and Edgar A. Morris. 2,592,168, Apr. 8.
Ketodisiloxanes. L. H. Sommer. 2,591,736, Apr. 8.
Knee lock for artificial legs and control therefor. J. G. Catranis. 2,591,781, Apr. 8.
Knitting machine. A. Shortland. 2,591,883, Apr. 8.
Knitting needle clip. E. V. Landon. 2,591,836, Apr. 8.
Knot. A. A. Nellis, Jr. 2,591,854, Apr. 8.
Lacquer compositions containing the rosin ester of 2,2,6,6-tetramethylolcyclohexanol. H. Wittcoff and W. A. Jordan. 2,592,502, Apr. 8.
Laminating photographic color film to glass. W. A. Ayres. 2,591,665, Apr. 8.
Lamp with heat-reducing means, Sealed beam filament. H. W. Alexander. 2,592,102, Apr. 8.
Landing gear for aircraft, Retractable. R. L. Levy. 2,591,839, Apr. 8.
Latch releasing door handle. G. V. Jakeway. 2,591,822, Apr. 8.
Lawn edger. I. Mjelva. 2,592,450, Apr. 8.
Leak detector. W. R. Baker. 2,591,998, Apr. 8.
Leg rest. C. L. Le Moir. 2,592,045, Apr. 8.
Lens system for ultrasonic viewing of defects in objects. R. E. Williams. 2,592,222, Apr. 8.
Lever and toggle actuated log gripping device. C. South. 2,592,205, Apr. 8.
Lid for refrigerating apparatus. A. V. Frohnapel. 2,592,412, Apr. 8.
Lifter: *See*—
Bottle lifter.
Light: *See*—
Portable highway signal light.
Lightweight concrete, Producing. A. Schnell and A. Bosshard. 2,592,345, Apr. 8.
Line diagram panel. L. H. Peter and E. A. Sheppard. 2,591,864, Apr. 8.
Liquid and vapor control valve. H. F. Sammons. 2,591,880, Apr. 8.
Liquid fuel supply and control system for atomizing nozzles. G. B. R. Feilden, A. Simons and R. Holl. 2,592,132, Apr. 8.
Liquid soap dispenser. M. Sawchuk. 2,591,969, Apr. 8.
Live bait hook device. R. V. Allen. 2,591,764, Apr. 8.
Loading assembly for trucks, Garbage. P. M. Oliver. 2,592,324, Apr. 8.
Lock: *See*—
Sliding bracket lock.
Lock for electric safety lamps, Bezel. W. Y. Stamper. 2,592,208, Apr. 8.
Lock slider for separable fasteners, Automatic. B. P. Lawson. 2,591,948, Apr. 8.
Locked copy ticket writer. F. R. Schulz. 2,591,728, Apr. 8.
Locking device for contraangle handpieces. G. E. Björklund. 2,591,772, Apr. 8.
Locomotive, Power generating. H. G. McClean. 2,591,848, Apr. 8.
Logging static spontaneous potentials in wells, Method and apparatus for. H.-G. Doll. 2,592,125, Apr. 8.
Loom cloth edge determining device. G. Schneebeli. 2,591,725, Apr. 8.
Lowering the viscosity of hydrolyzed cellulose esters and product. C. J. Malm and L. J. Tanghe. 2,592,305, Apr. 8.
Lubrication system. M. M. Holben and W. L. Weeks. 2,592,140, Apr. 8.
Machine and method for forming collapsible tubing. W. E. Rejeski. 2,592,336, Apr. 8.
Machine for cutting, processing, and/or seaming fabric or like sections, and product thereof. S. H. Phillips. 2,592,463, Apr. 8.
Machine for forming solder bars. C. E. Burke. 2,592,005, Apr. 8.
Machine for grinding twist drills. K. Trippel. 2,591,893, Apr. 8.
Machine for manufacturing fiberboard. N. Ryberg. 2,592,470, Apr. 8.
Machine for processing materials. A. E. Poulsen. 2,591,721, Apr. 8.
Machine for sorting compressible elements. L. M. Puster and J. A. Kaserman. 2,591,868, Apr. 8.
Machine tool spindle drive. H. N. Seyferth. 2,592,200, Apr. 8.
Macromolecular cellulose fiber, Manufacturing. S. Tachikawa. 2,592,355, Apr. 8.
Magnetic necktie holder. R. E. Cummings. 2,592,395, Apr. 8.
Magnetron. C. W. Hansell. 2,591,932, Apr. 8.
Magnetron. R. L. Sproull. 2,592,206, Apr. 8.
Making margarine and the resulting product. A. D. Wilson, H. B. Oakley, and J. Rourke. 2,592,224, Apr. 8.
Mask, Finger. L. R. Knepper, J. R. Newton, and K. K. Knepper. 2,592,293, Apr. 8.
Mask, Treatment. C. Aerick. 2,591,992, Apr. 8.
Means adjustably supporting a mirror from a cabinet or other base member. H. S. Viney. 2,592,086, Apr. 8.
Measuring device, Foot. M. J. and D. W. Rosenberg. 2,592,188, Apr. 8.
Measuring system. G. Shapiro. 2,591,731, Apr. 8.
Medicament, Enteric. C. C. H. Thomas and L. E. Edelman. 2,591,742, Apr. 8.
Memo pad attachment for telephones. A. J. Pratt. 2,592,066, Apr. 8.
Mercaptans, Manufacture of. P. F. Warner. 2,592,089, Apr. 8.
Metal parts cleaning machine, Power agitated. E. L. Chadwick. 2,592,117, Apr. 8.
Metal sash, Double-glazed. R. R. Cameron. 2,591,780, Apr. 8.
Meter: *See*—
Tension meter.
Metering fuse. D. A. Stark. 2,592,487, Apr. 8.
Methine dyestuffs and their manufacture. G. Schwarz and P. F. De Smet. 2,592,196, Apr. 8.
Microscope measuring device. G. Rollat. 2,592,339, Apr. 8.
Mimic diagram panel for railway and other indication systems. L. H. Peter and E. A. Sheppard. 2,591,865, Apr. 8.
Mineral oil composition. J. F. Socolofsky and R. V. White. 2,592,204, Apr. 8.
Mining machine, Coal. T. W. Tutwiler, II. 2,592,358, Apr. 8.
Mixing machine. E. A. Reiffen. 2,592,334, Apr. 8.
Mixing materials, Method and apparatus for. C. B. Clotworthy, Jr. 2,592,245, Apr. 8.
Mixing valve. L. H. Perry. 2,592,062, Apr. 8.
Model airplane wheel structure. A. B. Maxam. 2,592,164, Apr. 8.
Modification of linear polyamides whose amide groups are separated by at least 4 carbons with N-carboanhydrides of alpha amino acids. A. K. Schneider. 2,592,473, Apr. 8.
Modification of synthetic alpha-amino acid polymers by means of N-substituted alpha-amino acid N-carboanhydries. R. N. MacDonald. 2,592,446, Apr. 8.
Modulator circuit. A. B. Jacobsen. 2,591,821, Apr. 8.
Mold for casting long ingots, Double walled. P. Ostendorf. 2,591,858, Apr. 8.
Mold for molding sweetmeats. C. G. M. Armand. 2,592,232, Apr. 8.
Molding dishlike articles. H. H. Thompson. 2,592,080, Apr. 8.
Molding machine. R. A. Ronceray. 2,592,341, Apr. 8.
Monomers and polymers of vinyl carbamic acid derivatives and their preparation. J. B. Dickey. 2,592,254, Apr. 8.
Motor: *See*—
Reversible motor. Vertical sanitary motor.
Motor carrier for automobile bumpers, Outboard. R. L. McCharen. 2,592,050, Apr. 8.
Motor-driven invalid's chair. E. C. Gleason. 2,592,023, Apr. 8.
Motor-driven shaver. G. A. Seeley. 2,592,198, Apr. 8.
Mounting for hinged doors and the like. J. W. Turley. 2,591,979, Apr. 8.

Mounting of combustion chambers in jet-propulsion and gas-turbine power-units. G. Oullanoff. 2,592,060, Apr. 8.
Mouse or rat trap. J. B. Long. 2,592,302, Apr. 8.
Movable gripping unit for pipe wrenches. W. H. Spiri. 2,591,887, Apr. 8.
Multiband resonant system wherein each band is stepwise tunable. C. L. Richards and E. J. Glaisher. 2,591,965, Apr. 8.
Multicolor press. S. M. Innerfield. 2,591,941, Apr. 8.
Multilayer photographic color film in which at least one layer contains a mixture of cyan, magenta, and yellow dye image intermediates. H. C. Harsh. 2,592,514, Apr. 8.
Multipawl feed mechanism. S. Aijala. 2,591,993, Apr. 8.
Multiple control valve. R. Stevenson. 2,592,353, Apr. 8.
Multpile office voice-frequency line identification system. G. T. Baker. 2,591,909, Apr. 8.
Navigation system, Wireless. J. N. de Gruchy. 2,592,014, Apr. 8.
Neutron source. C. C. Carroll. 2,592,115, Apr. 8.
Noncaking photographic acid fixing powders. E. S. Wiltala and D. J. Kridel. 2,592,366, Apr. 8.
Noncrystallizing lactose sirup and making. R. J. Block. 2,592,509, Apr. 8.
Nonlinear pulse code modulation system. L. A. Meacham. 2,592,308, Apr. 8.
Nutation damping device. L. Wechsler. 2,592,092, Apr. 8.
Nutrition indicator. H. P. Askell. 2,592,106, Apr. 8.
Obtaining tumor tissue specimen. S. A. Gladstone. 2,591,927, Apr. 8.
Oil burner safety control system, including a flame responsive thermocouple structure. W. A. Ray. 2,592,068, Apr. 8.
Oil well cementing. H. M. Greene. 2,591,807, Apr. 8.
One-piece tie down device and grabhook. H. Weiss and F. Kammer. 2,591,986, Apr. 8.
Opener, Magnetic can. H. Glovinsky. 2,592,272, Apr. 8.
Optical apparatus for measuring by deflection. M. F. B. Picard and M. Schlumberger. 2,592,329, Apr. 8.
Organotin compounds and compositions containing the same. J. M. Church, E. W. Johnson, and H. E. Ramsden. 2,591,675, Apr. 8.
Orifice type flame holder construction. L. E. Berggren and A. A. Kurtis. 2,592,110, Apr. 8.
Over center cam engaged clutch. N. E. Risk, C. A. Ramsel and R. C. Williams. 2,591,873, Apr. 8.
Oxygen regenerator. P. S. Rogers, W. O. Emmons, J. W. Godfrey and J. M. Kelso. 2,591,878, Apr. 8.
P-phenylenediamine developer containing alkylacylamidoethyl or alkylacylamidoethoxy ring substituents. 2,592,364, Apr. 8.
P-phenylenediamine developer containing N-alkylacetamido ethyl substituent. A. Weissberger, D. B. Glass, and P. W. Vittum. 2,592,363, Apr. 8.
Package construction. K. H. Keller. 2,591,703, Apr. 8.
Paintbrush. O. P. Magoon. 2,591,845, Apr. 8.
Paper winding and smoothing device. A. E. Weaver. 2,592,090, Apr. 8.
Parallax corrector for use in gun control. A. K. Mann, L. M. Mott-Smith and L. R. Quarles. 2,591,846, Apr. 8.
Paste wax. Preparation of. R. W. Pressing, G. P. Lawless and R. J. Pettibone. 2,592,466, Apr. 8.
Pedal boat propulsion means. I. S. Wells. 2,592,498, Apr. 8.
Pedal reflector. H. Brammer. 2,592,238, Apr. 8.
Pen of the ball point type, Fountain. W. G. Faltin. 2,592,406, Apr. 8.
Pencil sharpener. G. E. Wimmer. 2,591,756, Apr. 8.
Phenyl silicon trichloride. Preparation of. A. J. Barry, L. De Pree and D. E. Hook. 2,591,668, Apr. 8.
Phonograph pickup, Moving-coil. H. C. Arentzen. 2,591,996, Apr. 8.
Photoelectric device for converting variations in light-intensity into variations in current. M. J. O. Strutt and A. van der Ziel. 2,591,977, Apr. 8.
Photoelectric exposure control. G. Jacoby. 2,592,035, Apr. 8.
Photoelectric sorting device. C. Smith. 2,592,202, Apr. 8.
Photographic emulsions containing symmetrical tetranuclear dye salts. L. C. Hensley. 2,592,515, Apr. 8.
Photographic film magazine. H. D. Kirby and C. F. Krause. 2,592,158, Apr. 8.
Photographic reversal process using high-intensity flash exposure. G. I. P. Levenson. 2,592,298, Apr. 8.
Photographic silver bromide emulsion containing some silver iodide. E. P. Davey and E. B. Knott. 2,592,250, Apr. 8.
Picture screen stand. L. J. Du Mais and F. J. Prokop. 2,591,686, Apr. 8.
Pile fabrics, Manufacture of. P. Shaw. 2,592,201, Apr. 8.
Pilot gauge. E. Frankland. 2,592,409, Apr. 8.
Pipe: *See*—
Tobacco smoking pipe.
Piston ring. R. H. Colvin. 2,591,920, Apr. 8.
Pitch lock and actuating valve therefor. W. E. Diefenderfer. 2,592,124, Apr. 8.
Planting. J. C. McKenna, Jr. 2,592,052, Apr. 8.
Plastic compositions of acrylonitrile ploymers. P. Mosse. 2,592,317, Apr. 8.
Plasticized cellulose acetate-butyrate and cellulose acetate-propionate. A. Bell. 2,592,234, Apr. 8.
Playing card. P. de Jesús. 2,592,122, Apr. 8.
Plier-wrench with guided jaws. J. B. Zimdars. 2,592,098, Apr. 8.
Plow, Reversible. D. C. Moore. 2,591,711, Apr. 8.
Plug: *See*—
Heating plug. Spark plug.
Plumb bob. O. K. Jackson. 2,592,425, Apr. 8.
Plural-compartment admixing hypodermic syringe ampoule for segregated storage of ingredients of liquid medicinal solutions and therapeutic preparations. M. L. Lockhart. 2,591,706, Apr. 8.
Pneumatic furniture assembling press. F. C. Valiton. 2,592,359–60, Apr. 8.
Pocket secretary and/or hip pocket wallet, Combination. Bruno A. and Beverly A. Læue. 2,592,046, Apr. 8.
Polymeric 1,4-dicyano-2-butene. R. G. Linville. 2,592,301, Apr. 8.
Polymeric organic cation resin exchangers containing imino groups, Preparation of. A. Skogseid. 2,592,350, Apr. 8.
Polymerization of propylene with liquid phosphoric acid. J. D. Kemp and L. F. Brooke. 2,592,428, Apr. 8.
Polystyrene plastics containing resorcinol monobenzoate. L. W. A. Meyer and W. M. Gearhart. 2,592,310, Apr. 8.
Polyvinyl alcohol ester of an acid ester of carbonic acid and an unsaturated alcohol. I. E. Muskat and F. Strain. 2,592,058, Apr. 8.
Polyvinyl chloride plastics containing resorcinol monobenzoate. L. W. A. Meyer and W. M. Gearhart. 2,592,311, Apr. 8.
Portable dam. B. R. Kearsley. 2,592,290, Apr. 8.
Portable highway signal light. E. F. Steffen. 2,591,888, Apr. 8.
Poultry nest. H. King. 2,592,430, Apr. 8.
Powder inhaler. H. H. Young and D. A. Loper. 2,592,369, Apr. 8.
Power booster linkage providing pilot's feel. R. R. Richolt. 2,591,871, Apr. 8.
Power transmission. M. K. Graham. 2,591,806, Apr. 8.
Preparing and reducing mononitrated polystyrene. A. Skogseid. 2,592,349, Apr. 8.
Press: *See*—
Multicolor press. Proof press.
Pneumatic furniture assembling press.
Pressure cooker. W. A. Andres. 2,591,767, Apr. 8.
Price tag or ticket holder. N. J. Breakey. 2,592,386, Apr. 8.
Processing hay and the like. B. E. Getz. 2,592,270, Apr. 8.
Procesing rice for preserving the vitamin contents thereof. D. S. Fernandes. 2,592,407, Apr. 8.
Projectile hoist, Reversible ratchet type. G. A. Chadwick and P. H. Girouard. 2,591,673, Apr. 8.
Projector, Contour. A. R. Fultz. 2,592,264, Apr. 8.
Projector, Light. H. E. Smith. 2,592,075, Apr. 8.
Proof press. F. Barney. 2,592,379, Apr. 8.
Prop attachment for ladders. J. A. Burke. 2,592,006, Apr. 8.
Propeller and spinner construction. R. N. Wallace. 2,592,214, Apr. 8.
Protecting shield. D. L. Craddock. 2,591,783, Apr. 8.
Protector: *See*—
Transparent sheet protector.
Pulling tool. E. E. Harrison. 2,592,420, Apr. 8.
Pulse counter circuit. B. Trevor. 2,592,493, Apr. 8.
Pulse echo distance indicator. B. M. Oliver. 2,591,856, Apr. 8.
Pulse energized gas tube circuit. E. O. Johnson. 2,591,824, Apr. 8.
Pulse group system of communications. C. E. Cleeton. 2,591,677, Apr. 8.
Pump: *See*—
Fuel injection pump. Variable capacity pump.
Reciprocating pump.
Pump and motor hydraulic system for use on tractors. J. M. Chambers. 2,592,393, Apr. 8.
Pump stroke adjusting device. E. H. Bradley. 2,592,237, Apr. 8.
Purification of alcohols by azeotropic distillation. N. C. Robertson and R. H. Buchanan. 2,591,877, Apr. 8.
Purification of tall oil pitch. R. S. Smith. 2,591,885, Apr. 8.
Purification process. J. J. Wehrle, O. L. Niehouse, and J. G. Burtle. 2,591,664, Apr. 8.
Purifying normally liquid chlorides of metals of group 4 of the periodic system. W. Frey and E. Boller. 2,592,021, Apr. 8.
Pyridine nitriles, Production of. W. I. Denton and R. B. Bishop. 2,592,123, Apr. 8.
Quaternary ammonium salts of high molecular weight polymetaphosphoric acid. M. T. Goebel and R. K. Iler. 2,592,273, Apr. 8.
Quaternary ammonium salts of N-(3,3-diphenyl propyl) pyrrolidine. A. W. Ruddy. 2,592,191, Apr. 8.
Quick opening valve. F. W. McRae. 2,591,959, Apr. 8.
Rack: *See*—
Film developing rack.
Rack for holding slices of toasted bread and the like. J. Snyder. 2,592,203, Apr. 8.

Radiator cleaning apparatus. C. B. Shanaman. 2,592,477, Apr. 8.
Radioactive marker. S. Krasnow. 2,592,434, Apr. 8.
Radio apparatus. C. Sheaffer. 2,591,732, Apr. 8.
Radio navigation aid. C. E. G. Bailey. 2,591,908, Apr. 8.
Radio speakers, Making. B. T. Setchell. 2,591,881, Apr. 8.
Radio system for distance measurement. P. A. Perilhou. 2,592,459, Apr. 8.
Ratio friction drive, Adjustable. E. Wildhaber. 2,591,753, Apr. 8.
Razor assembly, Ribbon type. G. D. Jones. 2,591,702, Apr. 8.
Razor blade dispensing package. S. J. Gwoosh and C. E. Taylor. 2,592,138, Apr. 8.
Razor, Safety. N. Testi. 2,592,488, Apr. 8.
Reacting gelatin with naphthyl isocyanates and resulting products. G. F. Frame. 2,592,263, Apr. 8.
Receptacle for drive-in banks, Depository. H. R. Wickes, C. Bintz, H. A. Kretschmer, and G. C. Kendall. 2,591,901, Apr. 8.
Recessed head fastener. H. F. Phipard, Jr. 2,592,462, Apr. 8.
Recipe card holder for stoves. H. M. Reeves. 2,592,467, Apr. 8.
Reciprocating pump. J. R. Lowry. 2,591,951, Apr. 8.
Recording and controlling systems. V. L. Parsegian and S. Swedlow. 2,592,179, Apr. 8.
Recording system, Stock. A. Adler. 2,592,100, Apr. 8.
Recovery of protein from wool and other keratinous materials. E. C. Koerner, H. Ehrhardt, F. R. Haigh, and J. Kirchhof. 2,591,945, Apr. 8.
Recovery of resins from coal. E. Klepetko, P. D. Kaye, and L. J. Hartzell, Jr. 2,591,830, Apr. 8.
Reducing amplitude distortion in cathode-follower amplifiers. N. B. Saunders. 2,592,193, Apr. 8.
Reel seat for fishing rods. L. A. Bean. 2,592,109, Apr. 8.
Reel support structure for multiple marker devices. H. W. Gilbert. 2,591,694, Apr. 8.
Refrigerated display case. J. E. Kimsey. 2,592,038, Apr. 8.
Refrigerator. A. J. Pedigo. 2,591,862, Apr. 8.
Refrigerator defrost product disposal system. J. E. Cochran. 2,592,394, Apr. 8.
Refuse vehicle. H. J. Van Doorne. 2,592,085, Apr. 8.
Regeneration of a moving bed catalyst at a uniform burning rate. J. A. Crowley, Jr. 2,592,121, Apr. 8.
Regulated direct voltage power supply. P. J. H. Janssen. 2,591,942, Apr. 8.
Releasably supporting aircraft components. F. Bowers, P. F. Joseph, and K. C. Holmes. 2,591,913, Apr. 8.
Remote control device for heaters, valves, and other remote controlled parts. H. Weber. 2,592,361, Apr. 8.
Removing hemicellulose from wood pulp. J. M. Limerick. 2,592,300, Apr. 8.
Resilient holding device. B. E. Thurness. 2,592,356, Apr. 8.
Resin impregnating wood. R. R. Austin. 2,591,768, Apr. 8.
Retainer for children. B. and D. Robbins. 2,591,875, Apr. 8.
Retriever for submerged articles. L. E. Perkins. 2,592,460, Apr. 8.
Reversible motor. J. L. Trant. 2,592,492, Apr. 8.
Ring: *See*—
Piston ring.
Rock drilling tool. P. Liddicoat. 2,592,440, Apr. 8.
Rocket launcher, Retractable. G. J. Kuka. 2,591,834, Apr. 8.
Rocket motor pumped supersonic wind tunnel. A. J. Nerad. 2,592,322, Apr. 8.
Rodent trap. J. T. Brubaker. 2,592,388, Apr. 8.
Roof. H. M. Pont. 2,592,465, Apr. 8.
Safety control. V. R. Pawelsky and E. R. Rack. 2,592,327, Apr. 8.
Safety device for fuel burners. V. Weber and R. F. Garner. 2,591,897, Apr. 8.
Salt shaker arrangement with desiccant container. R. W. Luce. 2,592,162, Apr. 8.
Sand riddling device. E. Faulkner. 2,591,688, Apr. 8.
Sander, Hand. C. W. Werntz. 2,592,093, Apr. 8.
Sanitary neck duster. R. J. Farone. 2,592,020, Apr. 8.
Scaffold jack. O. Murphey. 2,592,057, Apr. 8.
Scale prevention in oil wells. J. F. Chittum. 2,592,511, Apr. 8.
Scissors, Child's safety. W. M. and G. F. Stilwell. 2,591,740, Apr. 8.
Screwdriver sharpener, Watchmaker's. A. J. Barrett. 2,592,000, Apr. 8.
Seal. R. Kreimendahl. 2,591,833, Apr. 8.
Seal. S. E. Ullmann. 2,592,494, Apr. 8.
Sealing, perforating, and stamping machine, Combination. C. H. Heigl. 2,591,935, Apr. 8.
Sealing washer. A. B. Hammitt and H. L. Birum, Jr. 2,592,028, Apr. 8.
Sectional inner tube. J. A. Parthemore. 2,592,181, Apr. 8.
Selective calling system. R. H. Herrick. 2,591,937, Apr. 8.
Selectively exposing the grains of a mixed grain photographic emulsion. B. H. Carroll and W. T. Hanson, Jr. 2,592,243, Apr. 8.
Selector switch brush. G. Deakin. 2,591,683, Apr. 8.
Self-locking nut, Making a. H. O. Engstrom. 2,592,128–9, Apr. 8.
Self-locking trailer coupling unit. L. W. Caughman. 2,591,916, Apr. 8.
Self-lubricating radial and thrust bearing. A. W. Kogstrom. 2,591,832, Apr. 8.
Self-sustaining gas tube circuit. W. M. Webster, Jr. 2,591,899, Apr. 8.
Self-sustaining sawtooth current generator. J. E. Bridges. 2,591,914, Apr. 8.
Separation of close-boiling oxygenated compounds from their liquid mixtures. C. E. Morrell. 2,591,714, Apr. 8.
Separator: *See*—
Battery separator. Storage battery separator.
Series arrangement of positive and nonpositive screw pumps. M. B. Sennet. 2,592,476, Apr. 8.
Shaft bearing structure. E. E. Brown. 2,592,387, Apr. 8.
Shaft gauge. C. T. Wallis. 2,591,895, Apr. 8.
Shaft seal, Floating. W. E. Trumpler. 2,592,082, Apr. 8.
Shaker for condiments, Combination. S. J. Perry. 2,591,863, Apr. 8.
Sheet metal article and molding strip assembly. J. W. Schlaf. 2,592,472, Apr. 8.
Ship maneuvering and battle tactics trainer. W. L. Morey and R. A. Taylor. 2,591,715, Apr. 8.
Shoe for steady rests used on lathes, Self-aligning. A. Alexay. 2,592,229, Apr. 8.
Shoe holding device. T. F. Keenan. 2,592,156, Apr. 8.
Shoe machine. W. J. Janas. 2,591,823, Apr. 8.
Shoe with elastic back and added fastening means. A. Perugia. 2,592,182, Apr. 8.
Shoran mechanical straight-line computer. J. E. Henry. 2,591,698, Apr. 8.
Side-plug hydraulic cellar gate. F. J. Schweitzer, Jr. 2,592,197, Apr. 8.
Sign and making the same. H. G. Buck. 2,591,779, Apr. 8.
Signal: *See*—
Audible railroad crossing warning signal.
Signal volume varying system. A. R. Morgan. 2,592,313, Apr. 8.
Signaling employing polarized lights, Method and apparatus for. P. H. Lee. 2,591,837, Apr. 8.
Ski binding. W. Pepin and J. A. Rodrigue. 2,592,458, Apr. 8.
Skid-resistant tread for pneumatic tires, Producing a. P. E. Hawkinson. 2,591,934, Apr. 8.
Sled. M. C. Caughrean. 2,592,116, Apr. 8.
Sled or sleigh. F. A. Dubbs. 2,592,397, Apr. 8.
Slide mount. A. B. Fox. 2,592,262, Apr. 8.
Sliding bracket lock. L. J. Du Mais and F. J. Prokop. 2,591,685, Apr. 8.
Snare. R. E. Burt. 2,592,390, Apr. 8.
Snow melting machine. C. and R. Gangemi. 2,592,267, Apr. 8.
Snythesis gas, Preparation of. L. Jacolev and I. F. German, Jr. 2,591,700, Apr. 8.
Socket, Electric instrument. M. J. Lewis. 2,592,299, Apr. 8.
Soldering iron. M. L. Jeffrey. 2,592,426, Apr. 8.
Soluble interpolymers of diallylic maleates and allylic chlorides. P. O. Tawney. 2,592,211, Apr. 8.
Spark plug. E. R. Paul. 2,591,718, Apr. 8.
Spoon with a base. C. H. Sanford. 2,592,192, Apr. 8.
Spray guard for outboard motor boats. W. D. Colston. 2,592,011, Apr. 8.
Spreading apparatus for flattening tubular fabric. C. Yost. 2,591,903, Apr. 8.
Spring-actuated stud wrench. J. Keiser. 2,592,037, Apr. 8.
Spring clip. R. F. Smith, Jr., and P. D. Dale. 2,592,351, Apr. 8.
Sprinkler, Automatic. H. N. Rider. 2,591,872, Apr. 8.
Spud method of installing oil well drilling bases. W. V. McMenimen. 2,592,448, Apr. 8.
Stable reference apparatus. R. F. Hays, Jr. 2,591,697, Apr. 8.
Stanchion. A. E. Anderson. 2,591,766, Apr. 8.
Stand: *See*—
Picture screen stand.
Store counter display stand.
Stapling machine. J. N. Edmondson, H. Poulos, and C. R. James. 2,592,398, Apr. 8.
Static electricity instrument having audible indicator. R. C. Webster. 2,591,898, Apr. 8.
Steam engine having a unitary valve actuator. R. L. Harris and M. Lothrop. 2,591,933, Apr. 8.
Steam irons, Manufacture of. K. L. Woodman. 2,592,503, Apr. 8.
Steering device for steering wheels. S. Garfield. 2,592,413, Apr. 8.
Steering mechanism for wheeled frames. H. L. Schmalzried. 2,592,194, Apr. 8.
Steering mechanism, Trailer. O. J. Seely. 2,592,475, Apr. 8.
Stem winding and setting mechanism. A. L. Rawlings. 2,592,067, Apr. 8.
Sterilizer, Toothbrush. R. O. Farrar. 2,592,131, Apr. 8.
Storage battery separator. H. D. Wilson and C. Popper. 2,591,755, Apr. 8.

Store counter display stand. L. Rothrock. 2,592,189, Apr. 8.
Stove accessory. R. B. Cronheim. 2,591,786, Apr. 8.
Strain responsive gauge. S. B. Williams. 2,592,223, Apr. 8.
Stringer and carrier for fish, game, or other objects. A. C. Budy. 2,592,389, Apr. 8.
Strip holder. P. D. Macripo. 2,591,844, Apr. 8.
Sugar crystallization. G. J. King. 2,591,704, Apr. 8.
Superheterodyne receiver for very short waves. A. van Weel. 2,591,982, Apr. 8.
Supersonic inspection. F. A. Firestone. 2,592,134, Apr. 8.
Support: *See*—
  Electric wire insulator support.
  Ice-cream freezer support.
Supporting structure for insulators. D. D. Harding. 2,592,031, Apr. 8.
Suspension for vehicles, Adjustable. J. P. Butterfield. 2,592,391, Apr. 8.
Suspension mounting for the focusing device of cathode-ray tubes. D. Jackson. 2,591,820, Apr. 8.
Sweetening high-boiling petroleum distillates. J. H. Krause and T. B. Tom. 2,591,946, Apr. 8.
Swing, Child's. L. W. Otis. 2,592,177, Apr. 8.
Switch: *See*—
  Electric snap switch.
  Thermostatic control switch.
Synchronizing a voltage train generator and power supply. F. A. Firestone and R. B. De Lano, Jr. 2,592,133, Apr. 8.
Synthesis gas, Manufacture of. D. Eastman, E. M. Barber, and B. Reynolds. 2,591,687, Apr. 8.
Synthetic amphoteric polymers containing free amino groups and free acid groups. J. L. Azorlosa. 2,592,107, Apr. 8.
Syringe, Hypodermic. T. A. Blackman. 2,592,381, Apr. 8.
Table: *See*—
  Collapsible table.
Tachometer, Electric. J. Faure-Herman. 2,591,798, Apr. 8.
Target with electrical indicating system. R. T. Kimmel and J. A. Woodson. 2,592,429, Apr. 8.
Television test signal generator. E. O. Holland and J. B. Smith. 2,591,816, Apr. 8.
Temperature control of adsorption systems. J. P. Morgan and J. A. Patterson. 2,592,453, Apr. 8.
Tension meter. E. J. Saxl. 2,591,724, Apr. 8.
Tension-winder or reel for strip material, Collapsible. T. Sendzimir. 2,591,730, Apr. 8.
Tent, Inflatable sectional. E. B. Katzenmeyer and C. P. Krupp. 2,591,829, Apr. 8.
Test film for motion-picture projectors. E. W. Kellogg. 2,592,291, Apr. 8.
Textile fabric. A. Johnson and J. B. Speakman. 2,592,153, Apr. 8.
Therapeutic preparation comprising benzyl cinnamate and vitamin A. J. Jacobson. 2,592,149, Apr. 8.
Thermostatic control device. J. H. Huribut and C. R. Heininger. 2,592,424, Apr. 8.
Thermostatic control switch. R. F. Garner. 2,591,802–3, Apr. 8.
Thio-bis-acylamino pyrazolone couplers for color photography. A. Loria, P. W. Vittum, and A. Weissberger. 2,592,303, Apr. 8.
Thio, oxy silanes, Mixed. B. A. Orkin. 2,592,175, Apr. 8.
Thiophosphoryl chloride, Preparing. E. W. Cook. 2,591,782, Apr. 8.
Thread-cone support for sewing machines. E. Muecke. 2,592,318, Apr. 8.
Throttle control. T. M. Ball. 2,592,375, Apr. 8.
Throttle dashpot mechanism. R. C. Haeusler. 2,592,513, Apr. 8.
Ticket cartridge for copy writers. F. R. Schulz. 2,591,727, Apr. 8.
Tide gauge. A. A. Klebba, A. C. Vine, and W. M. Ewing. 2,592,159, Apr. 8.
Timepiece, Calendar. M. Huguenin. 2,591,819, Apr. 8.
Timing valve. E. and E. E. Goodroad. 2,592,024, Apr. 8.
TiO_2 pigments, Production of. O. B. Willcox. 2,591,988, Apr. 8.
Tire chain applying tool. J. C. Young. 2,592,096, Apr. 8.
Toaster. P. C. Snyder. 2,591,886, Apr. 8.
Tobacco smoking pipe. R. H. Mueller and G. W. Fossieck. 2,592,455, Apr. 8.
Tobacco-smoking pipe bowl and stem cleaner. F. G. Enssle. 2,592,401, Apr. 8.
Toilet flush tank refill device. O. E. Southwick. 2,591,975, Apr. 8.
Toilet seat sanitation device. J. Monaghan. 2,592,167, Apr. 8.
Tool: *See*—
  Bow hairing tool.
  Corrugation drilling tool.
  Pulling tool.
  Rock drilling tool.
  Tire chain applying tool.
  Welding tool.
Tool bracket and indexing assembly. S. P. Bruce. 2,592,240, Apr. 8.
Tool for cutting circular holes. L. Masini. 2,591,847, Apr. 8.
Tool for snap ties, Inserting. G. Erbe. 2,591,925, Apr. 8.
Toolholder. R. W. Fricke. 2,591,692, Apr. 8.
Tool to remove covers from articles, Spanner. E. G. Dayle. 2,592,251, Apr. 8.
Toothbrush, Fountain. M. Ackerman. 2,592,099, Apr. 8.
Top, Collapsible. J. J. Fodermaier, Jr. 2,592,512, Apr. 8.
Torque limiting means for engine starters and the like. R. M. Nardone. 2,592,320, Apr. 8.
Toy, Animated wheeled. J. H. Gonda. 2,591,804, Apr. 8.
Toy device, Educational figure. R. P. and F. S. Taylor. 2,592,078, Apr. 8.
Toy, Inflatable. C. E. Shute. 2,592,347, Apr. 8.
Toy or display apparatus, Spinning. P. H. Jacobs. 2,592,286, Apr. 8.
Toy, Spinning sounding. A. C. Madsen. 2,591,954, Apr. 8.
Tractor power take-off. M. Cherek. 2,592,008, Apr. 8.
Trailer hitch dolly. L. R. West and O. B. Sterett. 2,592,219, Apr. 8.
Trailer hitch with a detachable coupling means. R. W. Weber. 2,592,217, Apr. 8.
Transistor ring counter. R. P. Moore, Jr., and E. Eberhard. 2,591,961, Apr. 8.
Transmission. B. A. Swennes. 2,592,210, Apr. 8.
Transmission network for emphasizing the high-frequencies of applied oscillations. G. Hepp. 2,591,936, Apr. 8.
Transparent sheet protector. G. W. Amberg. 2,592,373, Apr. 8.
Trap: *See*—
  Mouse or rat trap.
  Rodent trap.
Traveling iron. L. H. Thomas and F. W. Kuhn. 2,592,489, Apr. 8.
Traversing hoist. C. R. Smith. 2,591,974, Apr. 8.
Trawl net towing and hauling equipment. F. A. Ray. 2,592,331, Apr. 8.
Tray for automobile glove compartments, Folding service. M. W. Henderson. 2,592,032, Apr. 8.
Trotline snell fastener and hook shield. F. H. Lawrenz. 2,592,438, Apr. 8.
Truck, Motorized hand. E. W. Weaver. 2,592,091, Apr. 8.
Truck or dolly, Wheel. R. G. McGowan. 2,592,307, Apr. 8.
True negative total printing mechanism. H. L. Lambert. 2,592,436, Apr. 8.
Tube: *See*—
  Sectional inner tube.
Tuning means. A. Jahncke. 2,592,151, Apr. 8.
Turbine, Combined radial and axial flow multistage. C. Yeomans. 2,592,227, Apr. 8.
Turbodrill thrust balancing apparatus. W. R. Postlewaite. 2,592,519, Apr. 8.
Tweezer, Power-driven. M. A. Smith. 2,592,484, Apr. 8.
Twin plunger valve. O. Schnyder. 2,592,474, Apr. 8.
Twist drill gauge. E. Bliss. 2,592,003, Apr. 8.
Universal electric fixture hanger. C. E. Mosley. 2,592,315, Apr. 8.
Unsaturated carbinol related to vitamin A and preparing same. I. M. Heilbron, B. C. L. Weedon, E. R. H. Jones, B. A. Hems, and A. B. A. Jansen. 2,591,811, Apr. 8.
Urinal attachment for nursery toilets. P. D. La Hue. 2,592,040, Apr. 8.
Uronic acids and derivatives thereof, Preparation of. D. H. Couch and E. A. Cleveland. 2,592,249, Apr. 8.
Utensil, Citrus fruit. J. W. Smith. 2,591,973, Apr. 8.
Valve: *See*—
  Crankcase ventilator valve.
  Hydraulic control valve.
  Intermittently actuated distributor dispensing valve.
  Liquid and vapor control valve.
  Mixing valve.
  Multiple control valve.
  Quick opening valve.
  Timing valve.
  Twin plunger valve.
Valve. W. H. Speck. 2,592,352, Apr. 8.
Valve actuating mechanism. R. C. Ball and H. O. Kron. 2,592,374, Apr. 8.
Valve assembly, Power. L. A. Majneri. 2,592,442, Apr. 8.
Valve control, Emergency. C. Sundstrom. 2,591,889, Apr. 8.
Valve for compressed acetylene. A. M. Ackroyd. 2,592,371, Apr. 8.
Valve for fountain stencil brushes. E. S. Garvey. 2,592,136, Apr. 8.
Valve for percussive tools. P. H. Nast. 2,591,853, Apr. 8.
Valve mechanism, Quick release. H. H. Panderzee. 2,592,213, Apr. 8.
Valve stem construction. W. S. Du Charme. 2,592,256, Apr. 8.
Valve structure. L. H. Gardner. 2,591,801, Apr. 8.
Valve with adjustable flow control. E. H. Mueller. 2,592,056, Apr. 8.
Vapor phase corrosion inhibition. R. J. Moore and A. Wachter. 2,592,451, Apr. 8.
Vapor phase treatment of combined gasoline and water phases of synthesis product with a basic compound. H. V. Hess, G. B. Arnold, and M. L. Drabkin. 2,591,699, Apr. 8.
Vaporizing device. L. C. Huff. 2,591,818, Apr. 8.
Variable capacitor. G. T. Kodama. 2,591,705, Apr. 8.
Variable capacitor. I. H. Page. 2,591,717, Apr. 8.
Variable capacity pump. F. S. Coe. 2,592,247, Apr. 8.
Variable-strength beverage dispenser. H. C. Heier. 2,592,279, Apr. 8. Class 8.
Vehicle: *See*—
  Refuse vehicle.
Velocipede horse. T. W. La Monte. 2,592,041, Apr. 8.
Venetian blind, Vertical. F. W. and E. O. Bopp. 2,591,775, Apr. 8.
Ventilating apparatus. E. F. O'Connell. 2,592,174, Apr. 8.
Ventilating apparatus, Room. T. R. Black. 2,592,002, Apr. 8.

Vertical sanitary motor. R. I. Robinson. 2,592,070, Apr. 8.
Vessel, Lead lined. J. I. Harper, F. R. Shuman, Jr., and R. C. Peters. 2,592,419, Apr. 8.
Vibration detector. J. D. Eisler. 2,591,795, Apr. 8.
Vise with antitilting means for the movable jaw. V. Spinnler. 2,592,076, Apr. 8.
Voltage-regulated electrical power supply. B. M. Cole and F. Kerkhof. 2,591,918, Apr. 8.
Vulcanizing machine. G. E. Apel and D. F. Collins. 2,591,995, Apr. 8.
Walking trainer for spastic children. J. J. Block. 2,591,912, Apr. 8.
Washer: *See*—
  Sealing washer.
Washer attachment for ice crushers. H. A. Lehman, and J. A. and W. W. Bateman. 2,592,044, Apr. 8.
Washing and cooling means for the plungers of high-pressure homogenizer pumps and the like. R. A. Yohpe. 2,591,902, Apr. 8.
Washing machine. O. F. Quartullo and H. Baade. 2,592,330, Apr. 8.
Watch mechanism, Dead-second. F.-A. Robert-Charrue. 2,591,876, Apr. 8.
Wave filter. R. P. Leroy. 2,591,838, Apr. 8.
Weighing and packaging apparatus. F. Slusher. 2,592,074, Apr. 8.
Weighing scale pendulum. L. S. Williams. 2,592,499–500, Apr. 8.
Welding tool. J. S. Wolfe. 2,592,505, Apr. 8.
Well flow regulating apparatus. H. C. Otis and J. C. Luccous. 2,592,325, Apr. 8.
Well logging apparent dip determining apparatus. A. B. Hildebrandt and L. W. Ledgerwood, Jr. 2,592,422, Apr. 8.
Wheelbarrow. J. E. O'Shea. 2,591,857, Apr. 8.
Wheel dressing unit. S. P. Bruce. 2,592,241, Apr. 8.
Wheel slip protective device. W. D. Ryckman, Jr. 2,592,342, Apr. 8.
Whirling roughing and finishing cutterhead machine for debarking logs and the like. W. R. Whitlock. 2,591,751, Apr. 8.
Window screen hook. R. S. Moore. 2,592,452, Apr. 8.
Wire-cutting machine. H. E. Farnett. 2,592,019, Apr. 8.
Work conveying mechanism for furnaces. Q. M. Bloom. 2,592,236, Apr. 8.
Work-immersion machine with selected delayed immersion. J. V. Davis. 2,591,681, Apr. 8.
Work-immersion machine with vertically and laterally movable rail section. J. V. Davis. 2,591,682, Apr. 8.
Wrapper or container of cardboard or like material. F. J. Shirley. 2,591,882, Apr. 8.
Wrapping machine. G. I. Hohl, F. H. Weise, and G. A. and J. M. Rist. 2,592,283, Apr. 8.
Wrench: *See*—
  Spring-actuated stud wrench.
Wrench having spring-closed head segments, Box-type. M. B. Day. 2,591,788, Apr. 8.
X-ray tube head. J. Vigh. 2,592,496, Apr. 8.

CLASSIFICATION OF PATENTS

ISSUED APRIL 8, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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282— 5: 2,591,727
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286— 15: 2,592,082
287— 90: 2,591,832
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288— 3: 2,592,494
290— 3: 2,591,791
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87: 2,592,452
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12: 2,591,731
13: 2,591,856
15: 2,591,698
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106: 2,592,459
107: 2,591,908
346— 7: 2,592,295
33: 2,592,179
107: 2,592,018

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,591,664: 23—101
2,591,670: 260—32.4
2,591,674: 220—37
2,591,685: 248—125
2,591,686: 248—161
2,591,689: 315—16
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2,591,706: 128—218
2,591,715: 35—10.2
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2,592,471: 230—120
2,592,473: 8—115.5
2,592,482: 108—17
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Classification of Designs

D 1—12: Des. 166,392
Des. 166,396
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11: Des. 166,417
13: Des. 166,423
16: Des. 166,404
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D15— 1: Des. 166,398
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D28— 1: Des. 166,382
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Condition of Applications Under Examination at Close of Business March 21, 1952

Total number of patent applications awaiting action, 102,352. Date of oldest new application, May 31, 1951; date of oldest amended application, May 28, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	6-15-51	6-15-51	2135
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	9-1-51	8-24-51	1111
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Casting or Plastic Composition (part).	8-17-51	8-16-51	1613
4. FALLER, E. A. (Acting), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	6-9-51	6-9-51	1670
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	7-31-51	7-30-51	1256
6. SURLE, H., Carbon Chemistry (part)	7-11-51	7-12-51	1866
7. GONSALVES, J. E., Optics; Photography (part)	8-22-51	8-17-51	1220
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	6-8-51	6-8-51	1735
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	6-12-51	6-12-51	1470
10. ANDRUS, L. M., Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles	6-4-51	5-23-51	1371
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	6-27-51	6-26-51	955
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	6-8-51	6-18-51	1173
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	6-1-51	6-1-51	1371
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	6-8-51	6-8-51	1657
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	8-29-51	8-24-51	1118
16. LOVEWELL, N. N., Television, Telephony	6-5-51	6-5-51	1257
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	6-7-51	6-8-51	1947
18. KURZ, J. A., Power Plants; Speed Responsive Devices	6-7-51	6-6-51	1295
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	6-11-51	6-26-51	1129
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	6-29-51	6-29-51	1441
21. MADER, R. C., Textiles	6-4-51	6-6-51	1377
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	6-25-51	6-25-51	1149
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	6-7-51	6-6-51	843
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	7-26-51	7-20-51	1452
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	7-17-51	7-11-51	1149
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	6-11-51	6-13-51	1206
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	7-2-51	6-29-51	1545
28. HABECKER, L. B., Button Making; Woodworking; Tools	6-21-52	6-23-52	1375
29. HABECKER, L. B., Button Making; Woodworking; Tools	7-5-51	6-19-51	1083
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	8-1-51	8-1-51	1515
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	7-19-51	7-23-51	1968
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-26-51	6-25-51	1175
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	6-13-51	6-13-51	2045
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	6-30-51	6-22-51	1359
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	6-6-51	6-7-51	1505
36. McFADYEN, A. D., Measuring and Testing	6-11-51	6-6-51	1289
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	7-12-51	7-11-51	1256
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	6-27-51	6-29-51	1504
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	6-26-51	6-26-51	2610
40. DRUMMOND, E. J., Receptacles (part); Packages	7-2-51	6-26-51	1472
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	6-12-51	6-11-51	1201
42. MARANS, H., Electric Signaling (part, except submarine, altimeters, distance or direction measuring, and object detection); Signals; Telegraphy (part); Signals and Indicators.	6-26-51	6-21-51	1135

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 102,352. Date of oldest new application, May 31, 1951; date of oldest amended application, May 28, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines. Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	7-28-51	8-4-51	1230
44. HARVEY, L. P., Beds; Chairs, Seats	6-8-51	6-9-51	1419
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	6-22-51	6-21 51	1379
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	6-26-51	6-21-51	915
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	6-19-51	6-12-51	1571
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	6-14-51	6-12-51	1642
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	6-15-51	6-11-51	1507
50. BENGEL, W. G., Synthetic Resins	9-6-51	9-5-51	1481
51. YAFFEE, S., Radiant Energy (part e. g., radio signaling); Radiant Energy Communications (part e. g., duplex, multiplex, device control); Modulators; Music; Piezoelectric Crystals.	6-19-51	6-19-51	1317
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	6-25-51	6-23-51	2100
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	7-16-51	7-5-51	1059
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	6-16-51	6-16-51	1630
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	6-23-51	7-10-51	1100
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	7-9-51	7-6-51	1790
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	6-27-51	6-21-51	1842
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators.	7-3-51	6-21-51	973
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	6-27-51	6-16-51	1119
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	6-30-51	7-6-51	1067
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	6-18-51	6-13-51	1248
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	6-26-51	6-18-51	1425
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	6-21-51	7-5-51	1574
64. GORECKI, G. A., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	8-16-51	8-18-51	1763
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	7-3-51	7-2-51	1467
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	6-15-51	6-11-51	1035
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	6-25-51	7-2-51	1218
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	6-12-51	6-12-51	1698
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	6-16-51	6-19-51	1336
70. BREWRINK, J. L., Radiant Energy (part, e. g., oscillation generators, mass spectrometry); Radiant Energy, Communications (part e. g., radar, directive); Electric Signal (part e. g., submarine, altimeters, distance or direction measuring, and object detection).	5-31 51	5-31-51	2964
DESIGNS: A. BREHM, G. L., Industrial Arts	12-1-51	12-6-51	652
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	11-24-51	12-24-51	756

Total number of trade-mark applications awaiting action (including renewals and republications), 14,651. Date of oldest new application, Sept. 1, 1951; date of oldest amended application, Sept. 4, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	9-4-51	9-6-51	3804
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	9-27-51	9-27-51	3100
Renewals (All Classes)	1-18-52	2-16-52	760
Republications (All Classes)	2-8-52	2-16-52	185
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	10-4-51	9-28-51	3356
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	9-1-51	9-4-51	3356

DECISIONS IN PATENT AND TRADE-MARK CASES

United States Court of Appeals District of Columbia Circuit

STANDARD OIL DEVELOPMENT CORPORATION

v.

JOHN A. MARZALL, COMMISSIONER OF PATENTS

No. 11,067. Decided February 7, 1952

[— F.2d —; 92 USPQ 201]

1. PATENTABILITY—PARTICULAR SUBJECT MATTER—PROCESS FOR CONVERTING HYDROCARBON OILS.

Held that the district court was not clearly wrong in finding that the appealed claims, to a process for converting hydrocarbon oils in the presence of solid catalysts, do not show invention over the prior art.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

Mr. Theodore S. Kenyon (*Messrs. W. Frederick Weigester, Paul O. Dunham* of counsel) for appellant.

E. L. Reynolds (*Clarence W. Moore*, of counsel) for appellee.

Before EDGERTON, WILBUR K. MILLER, and FAHY, *Circuit Judges*

PER CURIAM:

This appeal is from dismissal of a complaint under R. S. § 4915, 35 U. S. C. § 63, to obtain a patent on an improved process for treating gaseous fluids with solid materials, and more particularly for converting hydrocarbon oils in the presence of solid catalysts. We think the district court was not clearly wrong in finding, in substantial agreement with the Patent Office, that the appealed claims do not show invention over the prior art.

AFFIRMED.

MILLER, *Circuit Judge*, dissents.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,998,302, W. H. Wilmot, Spring structure, D. C., E. D. N. Y. (Brooklyn), Doc. 9978, *A. H. Wilmot* v. *The Englander Co.* Consent decree dismissing action with prejudice Mar. 6, 1952.

2,002,845, L. V. Aronson, Cigar lighter, D. C., S. D. N. Y., Doc. 69/134, *Ronson Patents Corp.* v. *Astra Trading Corp.* Consent order of dismissal (notice Feb. 28, 1952).

2,103,545, R. Miollis, Apparatus for making cheese; Re. 21,834, same, Method for making cheese, filed Feb. 27, 1952, D. C. Del., Doc. 1449, *The Borden Co.* v. *Kraft Foods Co.*

2,124,324, W. E. Weeks, Package, D. C., E. D. Mich. (Detroit), Doc. 10006, *Tee-T-Nut Co.* v. *Variety Nut & Date Co. et al.* Claims 1 and 2 held invalid, complaint dismissed Feb. 29, 1952.

2,226,449, F. C. Stephens, Repairing textile fabric, D. C., S. D. Tex. (Houston), Doc. 6626, *C. L. Young et al.* v. *G. W. Shannon.* Consent decree Mar. 6, 1952.

2,286,479, M. N. Farr, Air filter panel, D. C., S. D. Calif. (Los Angeles), Doc. 9759–PH, *Farr Co.* v. *Air Maze Corp.* Claims 4, 5, 7, and 8 held valid and infringed, injunction (notice Feb. 27, 1952).

2,407,276, Hendel & Stupell, Shock absorber for hydraulic system, filed Feb. 28, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. 12480, *Ra-Rich Mfg. Corp.* v. *Kam Water Heater Mfg. Co., Inc.* Doc. C-12481, *Ra-Rich Mfg. Corp.* v. *Sid Harvey, Inc.*

2,422,834, J. L. Kleinman, Shoulder-pad, C. C. A., 2d Cir., Doc. 21965, *J. L. Kleinman* v. *Betty Dain Creations, Inc.* Decree modified to dismiss all claims on merits and as so modified decree is affirmed May 17, 1951.

2,441,081, Perry & McCormack, Awning, D. C., N. D. Ala. (Birmingham), Doc. 702, *Gour-Way Awning Co.* v. *Eugene L. Evans Mfg. Co.* Consent decree for injunction Feb. 29, 1952.

2,446,319, S. O. Orthwin, Hem-marker, C. C. A., 8th Cir., Doc. 14469, *Scruggs-Vandervoort-Barney, Inc.* v. *Orco Products, Inc.* Judgment of district court affirmed and appeal dismissed Feb. 29, 1952.

2,459,110, S. P. Midouhas, Collapsible clothes line, D. C., E. D. Pa. (Philadelphia), Doc. 11211, *Kamkap, Inc.* v. *Falco Products, Inc., et al.* Consent judgment favor plaintiff and granting injunction Feb. 21, 1952.

2,488,819, J. L. Larkin, Cementing equipment, filed Mar. 3, 1952, D. C., S. D. Tex. (Houston), Doc. 6654, *Larkin Packer Co., Inc.* v. *Halliburton Oilwell Cementing Co.*

2,494,406, E. S. Reitano, Protective mask, filed Feb. 27, 1952, D. C., S. D. N. Y., Doc. 73/312, *Martin Products Co.* v. *Stone Distributing, Inc.*

2,508,075, O. Morris, Magnetised article, filed Mar. 3, 1952, D. C., S. D. N. Y., Doc. 73/352, *Hollywood Associates, Inc.* v. *Owen Morris & Co.*

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PRINTED COPIES OF PATENTS are furnished by the Patent Office at 25 cents each; copies of TRADE-MARKS and DESIGNS at 10 cents each. Address orders to the Commissioner of Patents, Washington 25, D. C.

The TRADE-MARK SUPPLEMENT to the OFFICIAL GAZETTE, issued weekly, subscription price, $22.75 per annum; single copies, 45 cents each. DECISION LEAFLETS, subscription price, $3.75 per year; single copies, 10 cents each.

CIRCULARS OF GENERAL INFORMATION concerning PATENTS or TRADE-MARKS will be sent without cost on request to the Commissioner of Patents, Washington 25, D. C.

2,551,110, R. Fuller, Portable form for lining irrigation ditches, filed Feb. 25, 1952, D. C. Ariz. (Phoenix), Doc. 1730, *Fullerform, Inc.* v. *Southside Agricultural Engineering Co. et al.*

2,558,293, A. E. Feinberg, Apparatus for starting and operating gaseous discharge device, filed Mar. 6, 1952, D. C., S. D. N. Y., Doc. 73/399, *Advance Transformer Co.* v. *Unique Art Mfg. Co.*

2,566,287, L. H. Finneburgh, Jr., Television antenna system, filed Feb. 21, 1952, D. C., N. D. Ind. (South Bend), Doc. 1341, *Lewis H. Finneburgh, Jr.* v. *Commercial Sound Radio Co.*

2,577,380. (See Des. 164,205.)

Re. 21,834. (See 2,103,545.)

Des. 151,732, W. G. Bley, Lady's stocking, filed Mar. 4, 1952, D. C. N. J. (Camden), Doc. 246/52, *Sanson Hosiery Mills, Inc., et al.* v. *Langer Hosiery Co.*

Des. 151,733 (*a*), W. G. Bley, Lady's stocking; T. M. 542,322, Sanson Hosiery Mills, Inc., Hosiery, filed Mar. 5, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13364, *Sanson Hosiery Mills, Inc., et al.* v. *Dial Shoe Co., Inc.*

Des. 151,733 (*b*), W. G. Bley, Lady's stocking, filed Jan. 11, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13156, *Sanson Hosiery Mills, Inc., et al.* v. *Moreck Hosiery Co. et al.* Same, filed Feb. 28, 1952, D. C., E. D. Pa. (Philadelphia), Doc. 13335, *Sanson Hosiery Mills, Inc., et al.* v. *Gay Time Shops, Inc.*

Des. 163,126, J. H. Kushner, Finger ring mounting, filed Mar. 4, 1952, D. C., E. D. N. Y., Doc. 12491, *J. H. Kushner* v. *Axel Bros., Inc.*

Des. 164,205, R. F. Stegeman, Spectacle front; 2,577,380, same, Spectacle frame with non-metallic parts on the rims, filed Jan. 18, 1952, D. C. R. I., Doc. 1327, *Bausch & Lomb Optical Co.* v. *Universal Optical Co., Inc.*

Des. 165,314, H. Weissman, Spectacle front, filed Feb. 29, 1952, D. C., S. D. N. Y., Doc. 73/343, *Paramount Optical Mfg. Corp.* v. *Royal Optical Ornament Co.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 258,643, T. M. 284,713, Societe Anonyme Jean Patou, Perfumes, face powder, rouge, etc., D. C., S. D. N. Y., Doc. 71/12, *Jean Patou, Inc.* v. *Gourielli, Inc.* Order of discontinuance (notice Mar. 3, 1952).

T. M. 284,713. (See T. M. 258,643.)

T. M. 364,823, Chicago Distilled Water & Beverage Co., Root beer; T. M. 399,605, same, Non-alcoholic beverage, C. C. A., 2d Cir., Doc. 22059, *Dad's Root Beer Co.* v. *Doc's Beverages, Inc., et al.* Decree affirmed Nov. 26, 1951.

T. M. 399,605. (See T. M. 364,823.)

T. M. 542,322. (See Des. 151,733 (*a*).)

NOTICES

Rearrangement of Patents in The Official Gazette

The Commissioner of Patents, with the issue of July 1, 1952, will institute a rearrangement of the sequence of presentation of patents in the OFFICIAL GAZETTE. On that date and thereafter patents will appear in the OFFICIAL GAZETTE under three main headings, viz., General and Mechanical, Chemical, and Electrical. Within each main category patents will appear in numerical sequence by class and subclass. The patent number will be determined by the sequence within category by class and subclass of the particular patents in the issue of date.

The purpose of the proposed presentation is solely to enable and facilitate greater utilization of the OFFICIAL GAZETTE by the public and members of the patent law profession.

Consequent to the publication of patents in the OFFICIAL GAZETTE as outlined herewith, there will be a slight extension of time required to furnish the receipt for payment of final fee, and notice of patent number assigned, of from five to eight days, depending on the incidence of non-work days in the Office immediately after the payment of final fee. On the average, the issue date of a given patent will ordinarily be the fifth Tuesday after the closing Thursday, instead of the fourth Tuesday as it has been under the random order method of presenting patents in the OFFICIAL GAZETTE practiced heretofore.

Erratum

All references to Patent No. 2,590,331 to Samuel J. Lackritz, assignor to Kee Zipper Corporation, for Hookless Slide Fastener, appearing in the OFFICIAL GAZETTE of March 25, 1952, should be deleted as the application was withdrawn from issue and the patent was not issued.

Adjudicated Patent

(D. C. Tex.) Ball Patent No. 2,114,013, for a valve control. Claim 2 *Held* valid and infringed. *E. I. M. Co.* v. *Philadelphia Gear Works*, 102 F. Supp. 14; — USPQ —.

Disclaimers

2,149,571.—*William A. Battey*, Haverford, Pa. HAMMER MILL. Patent dated Mar. 7, 1939. Disclaimer filed Mar. 4, 1952, by the assignee, *Pennsylvania Crusher Company.*

Hereby enters this disclaimer to claims 4, 5, 6, 9, and 10 of said patent.

2,462,779.—*Robert C. Russell*, Cleveland Heights, Ohio. GEAR SHIFTING MECHANISM. Patent dated Feb. 22, 1949. Disclaimer filed Feb. 23, 1952, by the assignee, *Eaton Manufacturing Company.*

Hereby enters this disclaimer to claim 7 of said patent.

2,464,990.—*Vernon L. Plagge*, East Orange, N. J. ELECTRIC LAMP MANUFACTURE. Patent dated Mar. 22, 1949. Disclaimer filed Mar. 5, 1952, by the assignee, *Westinghouse Electric Corporation.*

Hereby enters this disclaimer to claim 13 of said patent.

2,525,967.—*Charles H. Smoot*, Chicago, Ill. RESET MOTOR CONTROL SYSTEM. Patent dated Oct. 17, 1950. Disclaimer filed Mar. 7, 1952, by the inventor; the assignee, *Republic Flow Meters Company*, consenting.

Hereby enters this disclaimer to claims 1, 2, 3, 8, and 9 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,500,259. Load Binder. Patented Mar. 14, 1950. A load balancer to engage the opposite sides of a truck body and retain an overbalanced load of lumber or the like on the truck. A pair of channel-shaped members are telescopically arranged to engage the sides of a truck. One member has hooks on outer end, and a plate with hooks is slidably mounted on other member. A bell crank lever is pivoted to each plate for extending or retracting the members to selectively position the hooks in slots in anchor plates at opposite sides of truck body. (Owner) Byron C. Melvin, General Delivery, North Richland, Wash. Groups 24—21; 35—22—63—69; 38—11—22—31. Reg. No. 46,980.

Pat. 2,570,049. Fuel Oil Space Heater. Patented Oct. 2, 1951. Heater for burning heavy fuel oil comprises a furnace casing having a perforated fuel oil pot centrally disposed inside the lower end. An air chamber surrounding the pot communicates with a natural draft air intake sleeve in the side of the casing. An inverted U-shape air tube has one leg inside the center of the casing extending into the bottom of the pot, and the other leg outside the casing connected to a blower and to the draft sleeve. Air from the blower descending in the tube is heated and emerges in inclined jets onto the surface of oil in the pot for facilitating volatilization of the oil. The blower, when operating, partially closes the flue damper to prevent high heat loss up the flue, and also closes a damper in the draft sleeve. When the blower ceases operation, the dampers open, permitting heater to operate by natural draft. (Owner) Robert C. Densel, P. O. Box 611, Benson, Ariz. Group 33—62—63—65. Reg. No. 46,981.

Pat. 2,524,323. Cutting and Sanding Device. Patented Oct. 3, 1950. A detachable abrading disc for a circular saw or similar element presents a plane abrading surface at all times and does not interfere with the usual cutting functions of the saw. The saw has a series of keyhole slots, and the sanding disc has a series of T-shaped pins to pass through and be secured in the slots when the sanding disc is to be used. (Owner) Carysfort F. Lloyd-Young. Correspondence to Smith & Tuck, 734 Central Building, Seattle 4, Wash. Groups 32—91; 33—54; 35—41—53—69. Reg. No. 46,982.

The following eight patents are owned by John B. Smiley, 2000 Connecticut Ave., Washington 8, D. C.

The patents relate to automatic tuning and other control apparatus for radio or television receiving sets. Included is clock-controlled multiple-circuit and switching apparatus which may be manually set for automatic operation to receive pre-selected programs of pre-selected stations at pre-selected periods during the day. Other control apparatus is included whereby a receiver may be simultaneously turned on and automatically tuned to any desired station by depressing a button designating the selected station. Tuning mechanism having adjustable contacts is also included whereby additional contacts may be easily added to increase the flexibility and adaptability of the structure to many circuits. Group 36—61.

Pat. 2,186,964. Time Control Switch Mechanism. Patented Jan. 16, 1940. Reg. No. 46,983.

Re. 21,463. Control Apparatus for Radio Receiving Sets. Reissued May 28, 1940. (Original No. 2,075,809, dated Apr. 6, 1937.) Reg. No. 46,984.

Pat. 2,209,084. Radio Starting and Control Switch Circuit. Patented July 23, 1940. Reg. No. 46,985.

Pat. 2,219,302. Volume Control Apparatus for Radio Receivers. Patented Oct. 29, 1940. Reg. No. 46,986.

Pat. 2,238,894. Automatic and Manual Radio Control Apparatus. Patented Apr. 22, 1941. Reg. No. 46,987.

Pat. 2,345,927. Volume Control Apparatus for Radio Receivers. Patented Apr. 4, 1944. Reg. No. 46,988.

Pat. 2,345,928. Control Mechanism. Patented Apr. 4, 1944. Reg. No. 46,989.

Pat. 2,574,097. Remote Control for Radio Receivers. Patented Nov. 6, 1951. Reg. No. 46,990.

The Haloid Company offers the following nine patents for non-exclusive license according to the terms of a license agreement of the company now in effect, copies of which can be obtained from The Haloid Company, Rochester 3, N. Y. The patents relate to xerography, and licenses are limited to the field of xerographic signal recording from cathode ray tubes and the like. Groups 27—51—94; 36—61—62—92; 39—12.

Pat. 2,221,776. Electron Photography. Patented Nov. 19, 1940. Reg. No. 46,991.

Pat. 2,277,013. Electric Recording and Transmission of Pictures. Patented Mar. 17, 1942. Reg. No. 46,992.

Pat. 2,297,691. Electrophotography. Patented Oct. 6, 1942. Reg. No. 46,993.

Pat. 2,357,809. Electrophotographic Apparatus. Patented Sept. 12, 1944. Reg. No. 46,994.

Pat. 2,484,782. Method of Removing Electroscopic Powder From an Electrophotographic Plate. Patented Oct. 11, 1949. Reg. No. 46,995.

Pat. 2,543,051. Method of Charging and Exposing Electrophotographic Plates. Patented Feb. 27, 1951. Reg. No. 46,996.

Pat. 2,550,724. Apparatus for Applying Powder to an Electrophotographic Plate. Patented May 1, 1951. Reg. No. 46,997.

Pat. 2,550,738. Apparatus for Applying Powder to Electrophotographic Plates. Patented May 1, 1951. Reg. No. 46,998.

Pat. 2,551,582. Method of Printing and Developing Solvent Images. Patented May 8, 1951. Reg. No. 46,999.

The following four patents are owned by Anthony H. Lamb, 66 King St., Hillside, N. J.

Pat. 2,428,975. Illuminated Mirror. Patented Oct. 14, 1947. Self contained illuminated dental mirror has a tubular casing handle housing a small dry cell battery and light bulb. A light-transmitting plastic rod is attached to the end of the casing adjacent the light bulb. A mirror is attached to the enlarged free end of the rod. Light rays from the bulb are transmitted through the rod and emerge around the periphery of the mirror. Groups 32—31; 39—17. Reg. No. 47,000.

Pat. 2,517,325. Magnetic Probe. Patented Aug. 1, 1950. A magnetic probe useful for physicians, first aid workers, housewives, and industrial workers, has means for adjusting the strength of the magnet. A tubular housing has a magnetic tube in one end. A permanent magnet is slidable within the magnetic tube. A threaded rod operates through a bushing in the housing. A fork-shaped member surrounds one end of rod and protrudes from the housing, forming an operating knob the rotation of which will expel or retract the magnet from the tube. Group 39—15—16. Reg. No. 47,001.

Pat. 2,552,330. Oil Level Gauge. Patented May 8, 1951. A combination oil level gauge and magnetic particle remover for automobiles and other internal combustion engines. A rod terminates in a handle at one end, and the other end is magnetized and flattened with markings of measurement. The device is inserted into the oil reservoir without the use of tools and readily removed from the reservoir for determining the level of the oil or for removing particles adhering thereto. Groups 33—52; 38—31. Reg. No. 47,002.

Pat. 2,552,331. Electric Clock Fire Alarm. Patented May 8, 1951. A conventional electric alarm clock is provided with an auxiliary temperature-actuated means to sound the alarm when the temperature of the surrounding air reaches a predetermined value. An auxiliary soft-iron strip adjacent the field structure of the clock motor extends outwardly through an opening in one side of the clock case. The strip is normally held spaced from the field structure in non-vibrating position by a pellet inserted between the protruding end of the strip and a bracket secured to exterior of the case. When the pellet melts at predetermined temperature, the strip is released and vibrates rapidly against the field structure, producing an audible alarm. Groups 34—61; 36—19—62. Reg. No. 47,003.

Pat. 2,542,275. Method of and Means for Testing Electrovibratory Bodies. Patented Feb. 20, 1951. A device for testing electrovibratory bodies such as piezoelectric crystals to predict the presence of activity dips at elevated or depressed temperatures while the body itself is maintained at room temperature. Means are provided to visually display on the screen of an oscilloscope the performance of the electrovibratory body at elevated or depressed temperatures although the body is operating at room temperature. The instrument is particularly suitable for routine production testing of piezoelectric crystals. (Owner) Armour Research Foundation, 35 West 33d St., Chicago 16, Ill. Groups 36—13—61; 39—11. Reg. No. 47,004.

Pat. 2,566,837. Price Tag and Name Card Holder. Patented Sept. 4, 1951. A holder for displaying price tags, name cards, etc., may be tacked on a display case, secured to a bracket, or may stand on a flat surface supported by its base and a cut-out tongue. Holder consists of a piece of flexible sheet material bent to form an upright front wall, integral base, and upright shorter back wall. The back wall is curved to exert a resilient clamping pressure against back of front wall, to hold inserted card in desired position. May be of transparent material or not, and may be in any size. (Owner) Walter E. Huelmeyer, 1121 South 22d St., Quincy, Ill. Groups 25—41; 33—73; 34—41; 39—81—93—99; 40. Reg. No. 47,005.

Pat. 2,568,720. Combination Control System. Patented Sept. 25, 1951. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) Relates to electrical apparatus and circuits whereby a remotely located electrical device can be operated from a vehicle. Examples of the many applications of the invention include the opening of garage doors, the operation of loading and unloading devices for industrial trucks, and the operation of switches for locomotives, all in response to a signal or signals from a push button or other device located within the cab or driver's position in the respective vehicle. Several embodiments are disclosed. One embodiment provides apparatus for operating a remotely located electrical device from a vehicle by magnetic influence between a controllable magnetic-field-providing device on the vehicle, and a magnetic-field-sensitive element associated with the electrical device. (Owner) Herman H. Curry, 1514 Roswell St., Marietta, Ga. Groups 35—63; 36—19; 37—11; 38—31. Reg. No. 47,006.

Pat. 2,547,245. Developing Rack. Patented Apr. 3, 1951. A portable photographic developing rack (constructed of wood and plexiglass) enables an operator to develop film of various widths and lengths without operator's hands coming into contact with the processing solutions. A rectangular framework has two spaced series of adjustable legs about which a strip of film may be wound, allowing the emulsion to be alternately on the inside and outside of a bend. Adjustable off-sets on the legs at one end of the rack allow only the developing solution to come into contact with the emulsion when making an inward bend and prevent striping throughout its entire length. The adjustable legs enable operator to cut off and develop film at any time. (Owner) Arthur T. Anderkin, Bandy, Va. Group 39—12. Reg. No. 47,007.

Pat. 2,570,244. Dump Truck Scraper. Patented Oct. 9, 1951. Dump truck has a scraping device manually actuated to push any coal or the like remaining in the corners or bottom of truck out through a discharge chute. A movable support is pivoted to each side wall of the truck. Each support has a pair of spaced parallel slots to receive pins projecting from a slidable plate to ride in the slots as the plates are extended or retracted along the supports. A lever pivoted to under side of floor of truck is connected by links to the two supports and by a rod to an operating handle at side of truck. (Owner) Eugene R. Jones, Box 75, Glassboro, N. J. Groups 35—63—69; 37—99; 38—11—22. Reg. No. 47,008.

Pat. 2,572,524. Hot Soup Grease Skimmer. Patented Oct. 23, 1951. A skimmer designed especially for skimming grease from top level of hot soup has a handle riveted to one side of skimmer bowl. The bowl is concave, with side flanges, and filtering perforations in an upstanding curved portion at rear of bowl. Across the front is an inlet slot or mouth, formed with a bridge plate or lip, through which the grease enters the bowl. (Owner) Arthur Schmeiler, 20 Cliff Ave., Byram, Conn. Groups 33—73; 34—41—99; 40. Reg. No. 47,009.

United States Government Owned Patents

The following nine patents (granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757) are assigned to the United States as represented by the Secretary of Agriculture. Licenses to practice the inventions are issued on a royalty-free, non-exclusive, non-transferable revocable basis.

Applications for licenses should be addressed to the Bureau of Agricultural and Industrial Chemistry, U. S. Department of Agriculture, Washington 25, D. C.

Pat. 2,559,624. Preparation of 7-Hydroxyphenothiazone-3. Patented July 10, 1951. The above compound, useful as a therapeutic agent, is prepared by fusing a mixture of p,p'-dihydroxydiphenylamine, sulphur, and a catalytic amount of iodine. Group 28—31—81—89. Reg. No. 47,010.

Pat. 2,559,625. Isolation of an Organic Sulfur Compound From Asparagus. Patented July 10, 1951. Asparagus juice is extracted in a series of operations with butanol and benzene to isolate a yellow amorphous material containing about 30% sulphur. On reduction this material yields 3,3'-dithiolisobutyric acid which is useful as an intermediate for organic syntheses and as a regulator for enzymic reactions. Group 28—31—89. Reg. No. 47,011.

Pat. 2,559,626. Dithiane Carboxylic Acids. Patented July 10, 1951. An aldehyde or ketone is reacted with 3,3'-dithiolisobutyric acid to produce dithiane carboxylic acids such as 1,3-dithiane-5-carboxylic acid. Group 28—81—88—89. Reg. No. 47,012.

Pat. 2,560,537. Defrosting Indicator. Patented July 17, 1951. The device is adapted to be attached to the surface of a package of frozen food and provides a visible signal when the package is subjected to excessive temperatures. Development of the signal depends on diffusion of a solvent containing a dye through a porous sheet. An important feature of the device is that, though positioned on the surface of the package, it gives the visible signal only on thawing deep within the package. Exposure of the package to above-freezing temperatures for short periods of time does not cause development of the signal. Groups 20—24—37; 35—84. Reg. No. 47,013.

Pat. 2,562,934. Process of Isolating Lupulon From Hop Resin. Patented Aug. 7, 1951. The soft resin of hops is stored in a cool place to promote crystallisation of lupulon. The partly crystallized resin is then extracted with hot aqueous methanol to dissolve the lupulon crystals from the resin matrix. The extract is then cooled to crystallize the lupulon, a compound which exhibits antibiotic activity. Group 28—31. Reg. No. 47,014.

Pat. 2,562,970. Preservation of Forage Crops. Patented Aug. 7, 1951. Alfalfa meal is sprayed with a solution of a dihydroquinoline derivative, such as 6-ethoxy-2,2,4-trimethyl-1,2-dihydroquinoline, whereby to stabilize the carotene content of the alfalfa. Group 20—41—42. Reg. No. 47,015.

Pat. 2,563,855. Method for Improving Fruit Products. Patented Aug. 14, 1951. The enzyme, pectic acid-depolymerase, is added to fruit juices or purees to prevent gelling on storage. The enzyme also prevents formation of bitterness in such products as Navel orange puree. Group 20—33—34—37. Reg. No. 47,016.

Pat. 2,567,251. Analytical Selenium Strip and Method of Preparation Thereof. Patented Sept. 11, 1951. Strips of filter paper are impregnated with a solution of potassium selenocyanate, exposed to acid vapors to decompose the selenocyanate to elemental selenium, then dried. The resulting selenium-coated strip is useful for quantitative analytical purposes; for example, determination of ethylene in the atmosphere in fruit storage rooms. The air to be tested is passed over hot mercuric oxide whereby the ethylene liberates a corresponding amount of mercury into the air sample. This mercury-containing air is contacted with the selenium strip whereby it causes a length of blackening proportional to the concentration of mercury and hence proportional to the concentration of ethylene in the original sample. Groups 20—33; 28—86—88—89—99; 39—11. Reg. No. 47,017.

Pat. 2,572,046. Process for Recovering Parthenyl Cinnamate and Essential Oils From Guayule Resin. Patented Oct. 23, 1951. A solution of guayule resin in a water-miscible organic solvent (methanol, ethanol) is extracted with a hydrocarbon solvent (petroleum ether, pentane). The hydrocarbon solvent extract is subjected to evaporation to remove the solvent, and the residual parthenyl cinnamate is recrystallized from alcohol. Group 28—24—29—83. Reg. No. 47,018.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 8, 1952

[VOL. 657. No. 2]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 39

CLOTHING

Ser. No. 525,648. Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Filed July 2, 1947. Under 10-year proviso as to "Merrimac."



For Women's Hats and Hat Bodies.

Claims use since Apr. 29, 1941, on the mark shown; and since 1856 as to "Merrimac."

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 521,130. Gum Laboratories, Inc., Clifton Heights, Pa. Filed Apr. 22, 1947.



The drawing is lined for red. The words "Helps Sparkling White Teeth" are disclaimed.

For Chewing Gum.

Claims use since Jan. 1, 1941.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 617,293. Hartz Mountain Products, New York, N. Y. Filed Aug. 3, 1951.

TELEVISION

For Birds.

Claims use since Mar. 15, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 582,326. The Sturgis Products Company, Sturgis, Mich. Filed July 21, 1949. (Sec. 2f.)

THE STURGIS PRODUCTS CO.

For Aggregates Comprising Crushed Rock Fragments for Use in Tumbling Barrels for Polishing Purposes.

Claims use since July 1, 1940.

Ser. No. 599,666. Trade Winds, Inc., Newark, N. J. Filed June 23, 1950.

SILA-GLAZE

The word "Glaze" is disclaimed.

For Cleaner and Polish for Automobile, Metal, and Wood Finishes.

Claims use since June 14, 1950.

Ser. No. 601,560. Pangborn Corporation, Hagerstown, Md. Filed Aug. 1, 1950.

JIFFY-BLAST

The word "Blast" is disclaimed. Applicant claims ownership of Registration No. 301,538.

For Granular Abrasive Materials To Be Projected Against the Surfaces of Various Objects for Cleaning, Finishing, Cutting, and Carving Same.

Claims use since May 31, 1932.

Ser. No. 611,907. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Mar. 28, 1951.

3M

Applicant claims ownership of Registrations Nos. 56,397, 141,174, 141,175, and others.
For Coated Abrasives.
Claims use since February 1940.

CLASS 5

ADHESIVES

Ser. No. 608,883. The National Cash Register Company, Dayton, Ohio. Filed Jan. 17, 1951.

National

Applicant claims ownership of Registrations Nos. 386,968, 392,505, and 401,680.
For Cement for Porous Rubber Marking Stamps.
Claims use since Apr. 18, 1950.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 580,380. J. D. Schwartz, doing business as J. D. Schwartz Co., El Paso, Tex. Filed June 13, 1949.

Gleamaid

For Bleach.
Claims use since May 28, 1949.

Ser. No. 588,314. Monsanto Chemical Company, St. Louis, Mo. Filed Nov. 25, 1949.

NEALCO-MONSANTO

Applicant claims ownership of Registration No. 516,890.
For Alcohols and Solid, Liquid, and Gaseous Carbon Dioxide.
Claims use since Sept. 23, 1949.

Ser. No. 593,807. Mill Creek Products, Inc., Kansas City, Mo. Filed Mar. 11, 1950.

D-C TABS No. 1

The word "Tabs" is disclaimed.
For Chemical Catalyst for Use in Nitrogen Determination.
Claims use since Feb. 1, 1950.

Ser. No. 599,211. The American Agricultural Chemical Company, New York, N. Y. Filed June 16, 1950. (Sec. 2f.)

A A
QUALITY

Applicant claims ownership of Registrations Nos. 241,537 and 87,513.
For Phosphorus; Compositions Containing Phosphorus in Combined Form—Viz., Phosphoric Acid, Compounds of Phosphorus, and Phosphates; Finely Divided Carbon; and Calcium Arsenate.
Claims use since 1911.

Ser. No. 600,937. Aktiebolaget Bofors, Bofors, Sweden. Filed July 20, 1950.

BONOMOLD-O

Priority under Sec. 44(d). Swedish application filed Feb. 8, 1950, Registration No. 67,951, dated Mar. 24, 1950. Applicant claims ownership of Swedish Registration No. 67,951, dated Mar. 24, 1950.
For Crystalline Chemical Preparations for Treating Textile Fabrics To Inhibit Growth of Mold.

Ser. No. 601,371. S. B. Penick & Company, New York, N. Y. Filed July 28, 1950.

SULFOX-CIDE

For Synergist for Insecticides—Namely, Pyrethrins, Allethrin, Rotenone, Ryania, and the Like.
Claims use since Feb. 14, 1950.

Ser. No. 602,304. Calgon, Incorporated, Pittsburgh, Pa. Filed Aug. 17, 1950.

ZEOTONE

For Chemical Compound Used in Zeolite Softeners for the Purpose of Deflocculating and Dispersing Sediment, Controlling Corrosion, and Disinfecting the Zeolitic Material Therein.
Claims use since Mar. 2, 1950.

Ser. No. 605,852. The Executive Television Corporation, Danbury, Conn. Filed Nov. 3, 1950.

SWICK

For Deodorant To Absorb Household Odors.
Claims use since Oct. 26, 1950.

Ser. No. 608,201. Cotton States Chemical Co., Inc., West Monroe, La. Filed Dec. 29, 1950.

Ketokil

For Emulsifiable Insecticide Concentrates.
Claims use since Mar. 4, 1950.

Ser. No. 608,689. Warren Welman, Jr., doing business as Texasphaltic Company, New Orleans, La. Filed Jan. 11, 1951.

"TEXASPHALTIC"

For Net Dip, Toxic Pine Wood Preserver, Copper Preservative, and Pine Tar Oil.
Claims use since Jan. 1, 1922.

Ser. No. 617,682. Universal Refining Products Co., Inc., New York, N. Y. Filed Aug. 14, 1951.

SCALENEMY

For Chemical Compound for Preventing Scale.
Claims use since Mar. 3, 1923.

Ser. No. 618,122. Ninol Laboratories, Chicago, Ill. Filed Aug. 27, 1951.

Toximul

For Emulsifying and Dispersing Agents Having Particular Utility for the Emulsifying and Dispersing of Toxicant Concentrates in Aqueous Media.
Claims use since Aug. 17, 1951.

Ser. No. 618,195. American Chemical Paint Company, Ambler, Pa. Filed Aug. 21, 1951.

RATAFIN

For Chemical Preparations Useful for the Eradication of Rats and Mice.
Claims use since July 17, 1951.

Ser. No. 618,783. Burnhouse Animal Products Limited, Lisburn, Northern Ireland. Filed Sept. 14, 1951.

NICEROL

For Fire Extinguishing Compositions and Compounds.
Claims use since July 7, 1947; and since Mar. 10, 1951 in commerce between Great Britain and the United States.

Ser. No. 619,704. Kelco Company, San Diego, Calif. Filed Oct. 8, 1951.

KELUBE

For Amine Alginate.
Claims use since Feb. 24, 1950.

Ser. No. 619,733. Alliance Color & Chemical Company, Newark, N. J. Filed Oct. 9, 1951.

SOLAGEN

For Stabilized Azoic Dyestuffs.
Claims use since June 29, 1950.

Ser. No. 622,325. Calgon, Incorporated, Pittsburgh, Pa. Filed Dec. 11, 1951.

ZEOTONIC

For Regenerating Salt Used in Zeolite Softeners.
Claims use since Mar. 2, 1950.

CLASS 10

FERTILIZERS

Ser. No. 609,022. Robert W. Amos, Lincoln, Nebr. Filed Jan. 20, 1951.

ROIGINA

For Plant Food for Fertilizing Purposes.
Claims use since June 15, 1949.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 573,917. Celcure Wood Preserving Corporation, Jacksonville, Fla. Filed Feb. 16, 1949.

Celcure

Applicant claims ownership of Registration No. 266,384.
For Lumber Processed for Preservation.
Claims use since 1937.

Ser. No. 576,746. Enso-Gutzeit Osakeyhtiö, Helsingfors, Finland. Filed Apr. 7, 1949.

INSULFIN

Applicant claims ownership of Finnish Registration No. 22,421, dated Nov. 26, 1948.
For Products of Mill-Board, Card-Board, and Cellulose Used as Building and Insulating Material and Other Similar Purposes—Namely, Porous and Hard Wood Fibre Plates.

Ser. No. 582,546. Wood Conversion Company, St. Paul, Minn. Filed July 26, 1949.

Arrowhead

For Rigid Fiber Insulation Board.
Claims use since Aug. 28, 1937.

Ser. No. 588,994. The Olean Tile Company, Inc., Olean, N. Y. Filed Nov. 2, 1949 (Sec. 2f.)

VARITONE

Applicant claims ownership of Registration No. 266,735.
For Flooring and Wall Tiles.
Claims use since Nov. 1, 1928.

Ser. No. 591,955. R. O. W. Sales Company, Ferndale, Mich. Filed Feb. 3, 1950.

R.O.W.

For Metallic Sash Guide Strips, Metallic Sealing Strips for Windows and Window Frames.
Claims use since June 30, 1940.

Ser. No. 594,649. The Lennox Furnace Co., Marshalltown, Iowa. Filed Mar. 25, 1950.

LENNOX Holiday House

The words "Lennox" and "House" are disclaimed.
For Prefabricated Metal Buildings, Porches, and Shelters.
Claims use since Dec. 15, 1949.

Ser. No. 596,639. Gerald M. M. Grant, doing business under the fictitious name Insulating Aggregates Co., Los Angeles and Bishop, Calif. Filed Mar. 20, 1950.

PUMI-CELL

The word "Cell" is disclaimed.
For Plaster Aggregates, Made of Pumice With an Air-Entraining Agent.
Claims use since June 13, 1949.

Ser. No. 596,640. Gerald M. M. Grant, doing business under the fictitious name Insulating Aggregates Co., Los Angeles and Bishop, Calif. Filed Mar. 20, 1950.

PUMI-CELL

The word "Cell" is disclaimed.
For Plaster Aggregate, Made of Pumice With an Air-Entraining Agent.
Claims use since June 13, 1949.

Ser. No. 596,782. Douglas Fir Plywood Association, Tacoma, Wash. Filed May 3, 1950. (Sec. 2f.) COLLECTIVE MARK.

Applicant claims ownership of Registration No. 378,682.
For Plywood.
Claims use since Mar. 20, 1939.

Ser. No. 599,614. Cleveland Metal Awning, Inc., Cleveland, Ohio. Filed June 23, 1950.

Beauty

For Metal Awnings.
Claims use since Feb. 15, 1947.

Ser. No. 601,112. Meridian Plastics, Inc., Byesville, Ohio. Filed July 22, 1950.

MERIDIAN

Applicant claims ownership of Registration No. 443,341.
For Laminated Plastic Wallboard, Wall Covering, and Wall Tile.
Claims use since Feb. 20, 1946.

Ser. No. 604,846. Hachmeister-Inc., Pittsburgh, Pa. Filed Oct. 13, 1950.

Coronet

For Tile Cement.
Claims use since July 3, 1950.

Ser. No. 612,544. Harnly Weatherstrip Company, Chicago, Ill. Filed Apr. 12, 1951. (Sec. 2f.)

TRI-PLY

Applicant claims ownership of Registration No. 398,216.
For Weatherstrip Consisting of Felt and/or Sponge Rubber.
Claims use since Aug. 15, 1941.

Ser. No. 613,577. The Weather-Proof Co., Cleveland, Ohio. Filed May 5, 1951.

KANGAROO DOOR

The word "Door" is disclaimed.
For Auxiliary Doors Having Interchangeable Glazed and Screen Sashes.
Claims use since Mar. 1, 1950.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 549,619. Continental Screw Company, New Bedford, Mass. Filed Feb. 13, 1948.

STA-TITE SCREWS

The words "Sta-Tite" and "Screws" are disclaimed. Applicant claims ownership of Registrations Nos. 177,255 and 344,380.
For Screws of the Following Nature—Wood, Lag, Cap, Drive, Self-Tapping, Machine, Lock Cap, Washer Head, Socket Head, Hardened Thread-Forming Sheet Metal, Thumb and Set; Bolts of the Following Nature—Hook, Sink, Stove, Hanger, Fin Head, Meter, Carriage, Machine, Closet, and Step; Nuts of the Following Nature—Machine Screw (Hexagon, Square), Stove Bolt, Semi-Finished, Wing, Cap (Acorn); Rods of the Following Nature—Stove, Chair, and Ladder; Washers of the Following Nature—Countersunk Finishing, Flush Type, and Flat Brass; Rivets of the Following Nature—Solid, Tubular, and Cutlery; and Also Escutcheon Pins, Knurled Pins, and Bed Crating Hooks.
Claims use since May 22, 1945.

Ser. No. 551,331. Speed Products Company, Inc., Long Island City, N. Y. Filed Mar. 5, 1948.

SPEEDPOINT

For Clips, and Wire Staples Adhesively Secured in Stack Formation and Requiring External Support in a Magazine of a Manually Operated Stapling Machine Wherein the Foremost Staple of the Stack Is Adapted To Be Severed From the Stack and Expelled From the Magazine for Clinching Together Paper, Coardboard and/or Cloth or Flexible Sheet Material.
Claims use since Jan. 22, 1948.

Ser. No. 553,942. Wright Sales Company, Inc., Cleveland, Ohio. Filed Apr. 5, 1948. (Sec. 2f as to "Wright.")

EVERY ITEM "THE WRIGHT WAY"

For Venetian Blind Hardware—Namely, Metal and Wood Tassels, Brackets, Pulleys, Tiltors, Cord Locks, Cord Equalizers, Pin End Clips, Gudgeon Pins, Guide Channels and Guide Clips, Bead Chains, Coard and Tape Clips, Facia Clips, Connectors, Tilt Bar and Head Bar Supports, Nails, Tacks, Screws, and Staples.
Claims use since January 1946 on the mark as shown; and since January 1939 as to "Wright."

Ser. No. 568,312. Laclede Steel Company, St. Louis, Mo. Filed Nov. 6, 1948.

LACLEDE

Applicant claims ownership of Registration No. 369,110.
For Steel Products, Specifically, Pipe (Black and Galvanized) for Liquid and Gas, Drive Well Pipe, Tubing (Gas, Electric, and Furnace Welded), Conduit (Black Enameled and Galvanized), Elbows and Couplings.
Claims use since 1911.

Ser. No. 578,372. Columbian Steel Tank Company, Kansas City, Mo. Filed May 7, 1949. (Sec. 2f.)

COLUMBIAN

Applicant claims ownership of Registrations Nos. 422,158 and 424,405.
For Welded Steel Pipe; Welded Steel Casing for Wells and the Like; and Tank Floats.
Claims use since June 1, 1941.

Ser. No. 586,237. Everlast Metal Products Corp., New York, N. Y. Filed Oct. 13, 1949.



The drawing is lined for shading. Applicant claims ownership of Registrations Nos. 386,377, 386,378, and 386,935.
For Sugar Bowls, Cream Pitchers, Water Pitchers, Serving Trays, Casseroles, and Lazy Susans, All Composed Principally of Base Metal.
Claims use since June 1949.

Ser. No. 591,693. National Tank Company, Tulsa, Okla. Filed Jan. 30, 1950. (Sec. 2f.)

FLEX TUBE

The word "Tube" is disclaimed.
For Liquid Level Float Actuated Pilot Valve Controls for Controlling the Action of Diaphragm Motor Valves.
Claims use since June 1944.

Ser. No. 592,295. American Tack Co., Inc., New York, N. Y. Filed Feb. 11, 1950. (Sec. 2f.)

SAF-T-HED

For Thumb Tacks.
Claims use since February 1939.

Ser. No. 592,839. The Powers Regulator Company, Chicago, Ill. Filed Feb. 21, 1950.

METAFLOW

For Control Valves for Controlling Fluids and Gases, for Heating and Air Conditioning Systems, Water Heaters, and Industrial Processes.
Claims use since Aug. 1, 1949.

Ser. No. 593,987. Henry Valve Company, Melrose Park, Ill. Filed Mar. 15, 1950.

WAVE-FLOW

The word "Flow" is disclaimed. Applicant claims ownership of Registration No. 408,478.
For Make and Break Quick Couplers for Uniting Fluid Flow Lines.
Claims use since November 1949.

Ser. No. 596,623. Pacific Coast Engineering Company, Alameda, Calif. Filed Apr. 29, 1950.

PACECO

For Metal Fittings for Pipe Lines—Namely, Expansion Joints and Ball Joints, Swivel Elbows, Swivel Joints, Y Valves, Pipe, Pipe Sections and Couplings, Adapted for Use in Pipe Lines.
Claims use since Dec. 19, 1949.

Ser. No. 611,277. Hysan Products Company, Chicago, Ill. Filed Mar. 14, 1951.

Gly-a-Dor

The term "Dor" is disclaimed.
For Apparatus for Attachment to Doors for Automatic Dispensing of Chemicals From Aerosol Bombs.
Claims use since July 1, 1950.

Ser. No. 618,514. Garry H. Shields, doing business under the assumed business name of Parker-Shields Mfg. Co., Portland, Oreg. Filed Sept. 7, 1951.

Telespray

The representation of the goods is disclaimed.
For Telescopic Lawn Sprinkler.
Claims use since Jan. 1, 1950.

Ser. No. 619,947. Nettlefold-Stenman Hinges Limited, Cardiff, Wales. Filed Oct. 12, 1951.

N S H

For Builders' Hardware and Metallic Furniture Fittings—Namely, Hinges; Shelf-Brackets, Jointing Members for Woodwork; Padlock Hasps and Staples; Table Flap Brackets; Drawer Pulls and Handles for Use With Woodwork.
Claims use since June 27, 1947; and first used in commerce between foreign nations and the United States on Dec. 1, 1947.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 536,163. Seidlitz Paint & Varnish Co., Kansas City, Mo. Filed Sept. 29, 1947.

VITROGLOSS

For Paint Enamels and Liquid Undercoat in the Nature of Paint for Surfaces To Be Enameled.
Claims use since Mar. 1, 1936.

Ser. No. 566,396. The Patterson-Sargent Company, Cleveland, Ohio. Filed Oct. 4, 1948.

Applicant claims ownership of Registrations Nos. 27,640, 29,910, and others.
For Ready-Mixed Paints.
Claims use since Oct. 18, 1947.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 502,360. Vincent Christina & Company, Inc., New York, N. Y. Original filed, act of 1903, May 22, 1946; amended to application under act of 1946, Principal Register, Apr. 14, 1948.

SINOROL

For Medicinal Preparations for Intramuscular Administration by Physicians Indicated in the Therapy of Upper Respiratory Infections.
Claims use since September 1935.

Ser. No. 598,115. Sofia Del Busto Razon, doing business under the name of Laboratorios Busto, Madrid, Spain. Filed May 25, 1950.

FIMOL

Applicant claims ownership of Spanish Registration No. 19,702, dated Feb. 12, 1912.
For Medicine for the Treatment of Affections of the Respiratory Tract.

Ser. No. 611,747. Abbott Laboratories, North Chicago, Ill. Filed Mar. 26, 1951.

TROPOLETS

For Medicinal Tablets Containing Various Lipotropic Agents.
Claims use since Mar. 15, 1951.

Ser. No. 612,027. Merck & Co., Inc., Rahway, N. J. Filed Mar. 30, 1951.

HYDROCORTONE

Applicant claims ownership of Registration No. 531,347.
For Hormonal Substance of Use in the Treatment of Collagen, Allergic, and Other Diseases.
Claims use since Mar. 23, 1951.

Ser. No. 612,112. B. F. Ascher & Company, Inc., Kansas City, Mo. Filed Apr. 2, 1951.

The drawing is lined for shading only. The mark comprises a symbol representative of the capital letter "A."
For Medicinal Preparations—Namely, 3-Ortho-Toloxy-1,2 Propanediol; Pentobarbital Sodium and Phenobarbital for Use as a Sedative; d-Desoxyephedrine Hydrochloride in an Aromatized Syrup Vehicle With Alcohol for Use as a Relief in the Presence of Hypertension or Cardiovascular Disease; Sodium Pentobarbital; Sodium Salicylate and p-Aminobenzoic Acid With Ascorbic Acid; Triple Sulfonamides With Sodium Bicarbonate; Ascorbic Acid; Theophylline-Sodium Glycinate; Thyroid Extract With Vitamins; Thiamine Hydrochloride; Testosterone, Aqueous Suspension; Desoxycorticosterone Acetate in Aqueous Suspension; Di-Alpha-Tocopheryl Acetate and Testosterone Propionate in Sesame Oil; Sodium Ascorbate; Pyridoxine; Pyrilamine Bromtheophyllinate; Progesterone in Sesame Oil; Progesterone, Aqueous Suspension; Posterior Pituitary Injection U. S. P.; Naturally Occurring Conjugated Estrogens; Sodium Salicylate and Para-Aminobenzoic Acid; Pyridoxine With Thiamine in Sterile Aqueous Solution; Nicotinamine Injection; Di-Methionine and Choline Bitartrate; Magnesium Gluconate; Liver Injection U. S. P.; Crystalline Vitamin B_{12} and Folic Acid With Liver Injection U. S. P.; Vitamin and Mineral Tablets for Use as a Supplement to the Regular Diet; Iron Salt of an Organic Arsenical in Equilibrium Solution; Diethylstilbestrol; Estrogen and Progesterone, Aqueous Suspension; Estrogenic Substance, Aqueous Suspension; Natural Estrogenic Substance in Oil; Theophylline-Sodium Glycinate (Central); Chorionic Gonadotropin; Desoxycholic Acid; Calcium Gluconate; Solvent for Chorionic Gonadotropin; Crystalline Vitamin B_{12} U. S. P.; Vitamin B Complex; Tablets for the Relief of Mild Fever and Pain Consisting of Acetylsalicylic Acid, Acetophenetidin, Caffeine and Tincture Gelsemium; Alpha-Estradiol U. S. P.; and Di-Alpha-Tocopheryl Acetate.
Claims use since Sept. 27, 1950.

Ser. No. 612,617. S. D. Jackson Company, Lowell, Mass. Filed Apr. 13, 1951.

HICKOROME

For Preparation for Use as a Local Anodyne.
Claims use since July 30, 1950.

Ser. No. 616,998. Testagar & Co., Inc., Detroit, Mich. Filed July 26, 1951.

TRI-DEX

For Tablet, a Capsule, or Injectible for Use in Conditions Complicated by Obesity, Psychic Fatigue, Mental Depression.
Claims use since Mar. 13, 1951.

Ser. No. 617,093. Morgan-Sabaiol Products, Inc., New York, N. Y. Filed July 28, 1951.

TRICHOLYSIN

For Fungistatic Ointment and Powder for the Relief of Dermatomycosis Pedis (Athlete's Foot).
Claims use since Oct. 3, 1941.

Ser. No. 617,099. E. R. Squibb & Sons, New York, N. Y. Filed July 28, 1951.

TOLSERONE

Applicant claims ownership of Registration No. 527,744.
For Drugs Comprising Muscle Relaxants in Neuromuscular Disorders.
Claims use since July 12, 1951.

Ser. No. 617,129. G. D. Searle & Co., Skokie, Ill. Filed July 30, 1951.

FADRENAL

For Steroid Hormone Preparation Used Principally in the Treatment of Rheumatoid Arthritis and Related Conditions.
Claims use since June 27, 1951.

Ser. No. 617,196. Harrison Products, Inc., San Francisco, Calif. Filed Aug. 1, 1951.

adieu

For Tablet Preparation for Relief of Functional Menstrual Pain.
Claims use since June 18, 1951.

Ser. No. 617,781. Ayerst, McKenna & Harrison Limited, Rouses Point and New York, N. Y. Filed Aug. 17, 1951.

DIUCARDYN

For Mercurial Diuretic.
Claims use since July 23, 1951.

Ser. No. 617,830. Wyeth Incorporated, Philadelphia, Pa. Filed Aug. 17, 1951.

SEBELLA

For Aluminum Hydroxide With Belladonna and Phenobarbital.
Claims use since July 30, 1951.

CLASS 19

VEHICLES

Ser. No. 586,463. William D. Borg, doing business as Borg Welding & Manufacturing Co., Los Angeles, Calif. Filed Oct. 18, 1949.

THOROBRED

For Horse-Carrying Trailers.
Claims use since November 1939.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 537,246. Samson United Corporation, Rochester, N. Y. Filed Oct. 8, 1947.

STEEL-ROCK

The word "Steel" is disclaimed. Applicant claims ownership of Registration No. 332,260.
For Electric Heating Units Used in Electric Waffle Irons, Electric Flat Irons, Electric Soldering Irons, Electric Curling Irons, Electric Stoves, and Electric Sandwich Toasters.
Claims use since May 12, 1934.

Ser. No. 561,750. Kent-Moore Organization Inc., Detroit, Mich. Filed July 20, 1948.

Siffy Vac

Applicant claims ownership of Registration No. 426,931
For Electrically Driven Vacuum Cleaner.
Claims use since May 1937.

Ser. No. 578,945. Video Products Corporation, Red Bank, N. J. Filed May 16, 1949.

VideoGrand

The word "Video" is disclaimed.
For Television Receivers, Combination Radio and Television Sets, Combination Radio, Television, and Phonograph Sets, and Television Receiving Systems—Namely, a Main Receiver and One or More Repeater Receivers.
Claims use since Apr. 18, 1949.

Ser. No. 601,920. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Aug. 8, 1950.

RIVAL

For Portable Electric Power Sprayers for Applying Dry or Liquid Insecticides, Fungicides, Pesticides, and Paints, and Attachments Therefor—Namely, Nozzles, Hose, and Tanks Sold as a Unit.
Claims use since Dec. 31, 1927.

Ser. No. 602,846. Kinevox Incorporated, Burbank, Calif. Filed Aug. 28, 1950.

KINEVOX

For Magnetic Sound Recording Equipment—Namely, Recorders, Mixers, Reproducers, Readers, and Erasers.
Claims use since Sept. 24, 1949.

Ser. No. 604,604. Video Products Corporation, Red Bank, N. J. Filed Oct. 7, 1950.

TOWER

For Television Receivers, Combination Radio and Television Sets, Combination Radio, Television, and Phonograph Sets, and Television Receiving Systems—Namely, a Main Receiver and One or More Repeater Receivers.
Claims use since Aug. 18, 1950.

Ser. No. 607,707. Industriaktiebolaget Luxor, Motala, Sweden. Filed Dec. 15, 1950.



Applicant claims ownership of Swedish Registration No. 68,442, dated July 7, 1950.
For Electric Phonographs, Magnetic Discs, Tape and Wire for Recording and Reproducing Sound, Electric Automatic Record Changers, Television Receiving Sets and Television Broadcasting Sets and Radio Receiving Sets and Radio Broadcasting Sets.

Ser. No. 611,460. V-M Corporation, Benton Harbor, Mich. Filed Mar. 16, 1951.

tape-o-matic

The word "Tape" is disclaimed.
For Electric Motor Actuated Combination Automatic Phonograph Record Changers and Magnetic Tape Recorders.
Claims use since Jan. 15, 1951.

Ser. No. 619,554. Thomas Electronics, Inc., Passaic, N. J. Filed Oct. 3, 1951.

PHOTOTRON

For Television Tubes.
Claims use since Apr. 5, 1951.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 594,970. Peter Hodgson, New Haven, Conn. Filed Mar. 31, 1950.

Silly Putty

The word "Putty" is disclaimed.
For the Plastic Known as Organo Silicone Designed and Sold for Use as a Modeling Clay and Amusement Device by Children.
Claims use since July 1949.

Ser. No. 617,529. Karl Balasky, doing business as Tropic-Art Novelty Manufacturers, Miami, Fla. Filed Aug. 10, 1951.

"NUTSIE"

For Novelty Souvenir Toy Banks Made From Coconuts.
Claims use since Jan. 1, 1951.

Ser. No. 620,208. Julia C. Gray, Manteo, N. C. Filed Oct. 19, 1951.

Eleanor Dare

The name "Eleanor Dare" is not that of a living individual. Applicant claims ownership of Registration No. 393,596.
For Dolls and Doll Clothing.
Claims use since June 30, 1948.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 536,967. Trianco Limited, East Molesey, England. Filed Oct. 6, 1947.

TRIANCO

Applicant claims ownership of British Registration No. 431,759, dated Nov. 22, 1922.
For Concrete Block Making Machines; Concrete Mixing Machines; Hoists or Elevators Driven by Gasoline Engines, Non-Electric Motors; Endless Conveyors; Vibrating Tables; Tile Making Machines; Rod Making Machines; Metal Bending Machines; Metal Cut-Off Machines; Concrete Molding Machines; Concrete Molds; Pumps; Automatic Forming Lathes; Lathes; Metal Drills; Milling Machines and Parts Thereof; Metal Shaping Machines; Metal Slotting Machines; Shock Absorber Gears.

Ser. No. 544,077. J. H. Graham, Inc., Cleveland, Ohio. Filed Dec. 11, 1947.

PRESSURE LUBRI-CLEANER

The words "Pressure" and "Cleaner" are disclaimed.
For Apparatus for Use in Cleaning Machinery and Machine Parts by Directing Thereon a Current of Air-Forced Cleaning Liquid, Which Apparatus Is Comprised of a Steel Pressure Tank Equipped With Gauges, Safety Valves, Pipe and Hose Inlets and Outlets and Nozzle Equipped Hose Attachment.
Claims use since July 20, 1947.

Ser. No. 552,953. The Cussins and Fearn Company, Columbus, Ohio. Filed Mar. 25, 1948.

WHITE HOUSE

For Lawnmowers, Fertilizer Spreaders, Garden and Farm Implements—Namely, Spades, Forks, Rakes, Hoes, Hand-Operated Cultivators, Mattocks, Shovels, Potato Hooks, Trowels, Weed Diggers, Grass Shears, Grass Hooks, Grass Scythes, Flexible Lawn Rakes, Lawn Edgers, Post Hole Diggers, and Scoops; Paint and Floor Scrapers, Paint Spray Guns and Air Compressors Therefor, Graining Tools, Hand-Operated Carpet Sweepers, Floor Waxing Machines, Enameled and Aluminum Ladles, Electrical Milking Machines, Electric Motor-Driven Pumps—Namely, Water Pumps, Sump Pumps, and Jet Pumps.
Claims use since Apr. 1, 1932.

Ser. No. 561,551. Boutell Manufacturing Company, Inc., Rochester, N. Y. Filed July 16, 1948.

Bomac

For Canning Machinery, Viz. Washers, Dewaterers, Inspection Tables, Conveyors, Elevators, Apple Parers, Apple Slicers, Apple Choppers, Peach Pitters, Peach Slicers, Vegetable Slicers, Meat Slicers, and Blanchers.
Claims use since March 1945.

Ser. No. 599,249. Maatschappij, Ago, N. V., Ter-Apel, Netherlands. Filed June 16, 1950.

LIGNOSTONE

Applicant claims ownership of Dutch Registration No. 40,076, dated Feb. 9, 1920, renewed Feb. 13, 1940.
For Parts of Textile Machinery and Accessories Therefor, Made Wholly or Substantially of Wood Densified by Chemical and/or Physical Treatment—Namely, Weaving Shuttles, Picking Stocks and Springs or Laths.
Claims use since January 1949; and use in commerce between foreign nations and the United States since January 1949.

Ser. No. 609,401. Cyclemaster Limited, South Kensington, London, England. Filed Jan. 30, 1951.

Cyclemaster

For Motorized Wheels Equipped With or Without Reduction Gearing, Designed for Use and Sold Separately as a Power Propulsion Attachment for Use in Connection With Bicycles of All Kinds and Internal Combustion Engines and Parts Thereof.
Claims use since Sept. 30, 1949; and use in commerce between Great Britain and the United States since Sept. 7, 1950.

Ser. No. 616,425. Goodman Manufacturing Company, Chicago, Ill. Filed July 13, 1951.

Duckling

For Shaker Conveyor Loading Heads.
Claims use since June 15, 1951.

Ser. No. 618,210. Home Machine Supply, Inc., New York, N. Y. Filed Aug. 29, 1951.

SEWTEX

For Sewing Machines and Parts Thereof.
Claims use since Aug. 13, 1951.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 571,875. Pressing Supply Company, Philadelphia, Pa. Filed Jan. 8, 1949. (Sec. 2f.)

Han-L-Pad

The word "Pad" is disclaimed. Applicant claims ownership of Registration No. 399,777.
For Ironing Board Pads and Ironing Board Pad Covers.
Claims use since Apr. 21, 1941.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 606,717. Micro Balancing, Incorporated, Garden City Park, Mineola, N. Y. Filed Nov. 21, 1950.

MICRO-NAMIC

For Balancing Machine Used To Determine and Measure the Extent of Off-Balance and To Balance Gyroscopic Rotors and Rotating Parts of Various Types of Machinery and Equipment Having Rotating Parts.
Claims use since Sept. 26, 1949.

Ser. No. 624,116. Wollensak Optical Company, Rochester, N. Y. Filed Jan. 25, 1952.

Escort

For Binoculars.
Claims use since Dec. 4, 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 609,159. Oscar Bettschen, New York, N. Y. Filed Jan. 24, 1951.

MYRET

For Watches, Clocks, and Parts Thereof.
Claims use since Dec. 18, 1950.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 607,989. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 22, 1950.

The portrait is fanciful. The words "For Home For Country and For God" are disclaimed. Applicant claims ownership of Registration No. 528,273.
For Medals, Badges, Plaques, Emblems, Lapel Buttons, Trophies, Figurines, Miniatures, Jewelry for Personal Wear (Not Including Watches)—Namely, Fraternity Pins, Watch Bands, Bracelets, Necklaces, Watch Charms, Cuff Links, Tie Chains, Tie Clasps, Key Chains, Bar Pins, Hair Pins, and Finger Rings, All Made of or Plated With Precious Metal.
Claims use since Oct. 24, 1947.

Ser. No. 607,996. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Filed Dec. 22, 1950.

Applicant claims ownership of Registration No. 528,273.
For Medals, Badges, Plaques, Emblems, Lapel Buttons, Trophies, Figurines, Miniatures, Jewelry for Personal Wear (Not Including Watches)—Namely, Fraternity Pins, Watch Bands, Bracelets, Necklaces, Watch Charms, Cuff Links, Tie Chains, Tie Clasps, Key Chains, Bar Pins, Hair Pins, and Finger Rings, All Made of or Plated With Precious Metal.
Claims use since Oct. 24, 1947.

Ser. No. 615,403. Novel Products Co., Long Island City, N. Y. Filed June 19, 1951.

Amoret

For Jewelry for Personal Wear or Adornment, Not Including Watches—Namely, Necklaces, Ornamental and Lapel Pins, Finger Rings, Ear Rings, Pendants, Brooches, Bracelets, and Charms of Base and Precious Metals.
Claims use since May 15, 1950.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 613,834. Bergstrom & French Company, Los Angeles, Calif. Filed May 14, 1951.

Solana WARE

The word "Ware" is disclaimed.
For Pottery Garden Jardenieres, Pottery Flower Pots, Pottery Saucers for Flower Pots, Pottery Hanging Baskets, Pottery Garden Pans, Pottery Birdbaths, Pottery Ornamental Jars, Pottery Oven Ware, Pottery Casseroles, Pottery Baking Dishes, Pottery Bean Pots, Pottery Salad Bowls, Pottery Pitchers, Pottery Relish Dishes, Pottery Salt Shakers, Pottery Pepper Shakers.
Claims use since Sept. 15, 1947.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 602,357. Associated Plastic Companies, Inc., Chicago, Ill. Filed Aug. 18, 1950.

ESKO-TWINS

The word "Twins" is disclaimed. Applicant claims ownership of Registration No. 403,428.
For Ice-Cube Cups.
Claims use since Mar. 28, 1950.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 568,409. Thonet Brothers, Inc., New York, N. Y., assignor to Thonet Industries Inc., New York, N. Y., a corporation of Delaware. Filed Nov. 8, 1948. (Sec. 2f as to "Thonet.")

The words "Bent Ply" and the representation of a chair is disclaimed. Applicant claims ownership of Registrations Nos. 54,066, 226,806, and others.
For Furniture—Namely, Chairs, Stools, Shoe Fitting Stools, Settees, Sofas, Tables, Occasional Tables, Card Tables.
Claims use since Oct. 16, 1944, as to the mark shown; and since July 1881 as to name "Thonet."

Ser. No. 600,648. Chicago Towel Company, Chicago, Ill. Filed July 14, 1950.

DRY-O-MATIC

For Towel Cabinets.
Claims use since June 26, 1950.

Ser. No. 614,511. Plant Bros. Co., San Francisco, Calif. Filed May 29, 1951.

WHEREVER BABY GOES
BABE ABODE

The words "Wherever Baby Goes" and the word "Babe" are disclaimed.
For Portable Baby Pens.
Claims use since July 1, 1946.

Ser. No. 616,834. Simmons Company, New York, N. Y. Filed July 23, 1951.

Auto-Lock

The word "Lock" is disclaimed. Applicant claims ownership of Registration No. 529,887.
For Metal Spring Components of Mattresses.
Claims use since Feb. 17, 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 614,834. Harold C. Matson, doing business as Vanmat Company, Albert Lea, Minn. Filed June 6, 1951.

VEEP

For Home Humidifiers.
Claims use since Oct. 20, 1948.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 604,222. The Pure Oil Company, Chicago, Ill. Filed Sept. 29, 1950.

Pure-sure

For Tube Repair Kit, Fan Belts, Radiator Hose, Nail Hole Patches, Tire Patches (for Tube Repair), Patches Applied to Rubber Tubes by Heat, and Tire Repair Units (for Casing Repair).
Claims use since June 1946.

Ser. No. 604,457. Universal Packing & Gasket Co., Houston, Tex. Filed Oct. 4, 1950.

Unilite

For Phenolic Base Piston Rings for Compressors and Pumps.
Claims use since September 1944.

Ser. No. 608,262. Anchor Coupling Company, Inc., Libertyville, Ill. Filed Jan. 2, 1951.

HI-BURST

For Fabric Reinforced Hose.
Claims use since Jan. 10, 1950.

Ser. No. 617,728. Periflex, Inc., Hazel Park, Mich. Filed Aug. 15, 1951.



The representation of a seal is disclaimed.
For Hydraulic and Pneumatic Packings Molded From Neoprene for Use as Pressure Seals in Hydraulic and Pneumatic Cylinders, Presses, and Valves.
Claims use since June 7, 1951.

Ser. No. 618,169. Koppers Company, Inc., Pittsburgh, Pa. Filed Aug. 28, 1951.

K-IRON

The word "Iron" is disclaimed. Applicant claims ownership of Registration No. 530,225.
For Piston Rings.
Claims use since June 19, 1951.

Ser. No. 618,178. Perfect Circle Corporation, Hagerstown, Ind. Filed Aug. 28, 1951.

85

Applicant claims ownership of Registrations Nos. 279,455, 318,806, and 326,358.
For Piston Rings.
Claims use since Sept. 3, 1930.

CLASS 37

PAPER AND STATIONERY

Ser. No. 567,170. Arkwright Finishing Company, Providence, R. I. Filed Oct. 19, 1948. (Sec. 2f—Additional evidence.)

Ark-a-Tex

For Tracing Cloth.
Claims use since Sept. 13, 1948.

Ser. No. 600,118. Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Filed July 1, 1950.

CHEMCO

Applicant claims ownership of Registrations Nos. 353,142 and 353,510.
For Photographic, Photoengraving, and Photomechanical Supplies—Namely, Pigment Paper, Carbon Tissue, and Carbro Paper Which May Be Rendered Photosensitive for Use in Making Rotary Photogravure and Silk Screen Printing Members and in Making Prints by the Carbro Process.
Claims use since January 1949.

Ser. No. 600,119. Chemco Photoproducts Company, Inc., Glen Cove, N. Y. Filed July 1, 1950.



Applicant claims ownership of Registrations Nos. 353,142 and 353,510.
For Photographic, Photoengraving, and Photomechanical Supplies—Namely, Pigment Paper, Carbon Tissue, and Carbro Paper Which May Be Rendered Photosensitive for Use in Making Rotary, Photogravure and Silk Screen Printing Members and in Making Prints by the Carbro Process.
Claims use since Oct. 15, 1949.

Ser. No. 607,749. F. D. S. Manufacturing Company, Pomona, Calif. Filed Dec. 16, 1950.

AIR-FLOW

For Ventilated Cushion-Like Pads, Made of Corrugated Paper for Use in Packing Fresh Fruits and Vegetables and for Packing and Padding All Kinds of Merchandise To Insure Against Breakage.
Claims use since July 11, 1950.

Ser. No. 618,060. Sterling Pulp & Paper Company, Eau Claire, Wis. Filed Aug. 24, 1951.

FORE

For Paper Napkins, Paper Towels, Toilet Tissue, Paper Facial Tissues, Wax Paper, Wrapping Paper.
Claims use since Feb. 15, 1951.

Ser. No. 618,061. Sterling Pulp & Paper Company, Eau Claire, Wis. Filed Aug. 24, 1951.

SURF

For Paper Napkins, Paper Towels, Toilet Tissue, Paper Facial Tissues, Waxed Paper, and Wrapping Paper.
Claims use since Feb. 15, 1951.

Ser. No. 618,261. S. H. Kress and Company, New York, N. Y. Filed July 11, 1951.

BONITA

Applicant claims ownership of Registrations Nos. 289,937, 289,938, and others.
For Writing Tablets, Albums, Composition Books, Note Books, Writing Paper, Correspondence Cards, Correspondence Envelopes, Wrapping Paper, Toilet Paper, Facial Tissue, Paper Towels, Paper Napkins, Paper Handkerchiefs, Waxed Paper, Penholders, Fountain Pens, Pencils, Crayons, Pen Points, Rubber Erasers, File Guides, and Loose-Leaf Binders.
Claims use since May 15, 1931.

Ser. No. 619,913. The American Crayon Company, Sandusky, Ohio. Filed Oct. 12, 1951. (Sec. 2f.)

STERLING

Applicant claims ownership of Registration No. 383,932.
For White and Colored Chalk Crayons.
Claims use since 1910.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 613,894. American Butter Institute, Inc., Chicago, Ill. Filed May 16, 1951.



The representation of the child is fanciful.
For Newspaper Column.
Claims use since Oct. 5, 1950.

Ser. No. 618,776. Vitaminerals, Inc., Glendale, Calif. Filed Sept. 13, 1951.

Vita-Rays

For Monthly Magazine.
Claims use since July 1941.

Ser. No. 618,975. McGraw-Hill International Corporation, New York, N. Y. Filed Sept. 19, 1951. (Sec. 2f.)

EL FARMACEUTICO

Applicant claims ownership of Registration No. 423,184.
For Monthly Pharmaceutical Publication.
Claims use since Jan. 1, 1925.

Ser. No. 618,976. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 19, 1951. (Sec. 2f.)

Coal Age

Applicant claims ownership of Registration No. 406,176.
For Magazines Published Periodically.
Claims use since 1911.

Ser. No. 618,979. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 19, 1951. (Sec. 2f.)

FACTORY

Applicant claims ownership of Registration No. 409,999.
For Magazine Published Periodically.
Claims use since March 1933.

Ser. No. 618,980. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 19, 1951. (Sec. 2f.)

McGraw-Hill DIGEST

Applicant claims ownership of Registration No. 425,474.
For Magazine Published Monthly.
Claims use since January 1944.

Ser. No. 618,981. McGraw-Hill Publishing Company, Inc., New York, N. Y. Filed Sept. 19, 1951. (Sec. 2f.)

Industrial Distribution

Applicant claims ownership of Registration No. 422,131.
For Monthly Bulletin Dealing Principally With Mill Supply Distribution.
Claims use since Mar. 29, 1944.

Ser. No. 619,081. Green Thumb Publisher, Inc., St. Petersburg, Fla. Filed Sept. 21, 1951.

GREEN THUMB

For Periodical.
Claims use since Oct. 10, 1950.

CLASS 39

CLOTHING

Ser. No. 561,297. Craddock-Terry Shoe Corporation, Lynchburg, Va. Filed July 14, 1948.

Terrier

For Shoes for Boys.
Claims use since Apr. 8, 1939.

Ser. No. 562,565. William P. Morris, doing business as Morris Garment Company, Hobbs, N. Mex. Filed July 30, 1948.

Morris

For Men's, Boys', Women's as Well as Girls' Garments, Such as T and Athletic Shirts, Union Suits Both Long and Short, Briefs for Men and Boys, Also Women's Brief Type of Underwear and Girls' Panties.
Claims use since May 15, 1948.

Ser. No. 567,903. Butler Brothers, Chicago, Ill. Filed Oct. 30, 1948.

valor

Applicant claims ownership of Registrations Nos. 121,754, 393,317, and 149,646.
For Suspenders, Mufflers, Apparel Belts, Pajamas, Nite Shirts, Boys' Suits, Boys' Under and Outer Shirts, Boys' Raincoats, Swim Suits, Swim Trunks, Men's Under and Outer Shirts, Men's Dress Pants, Sport Shirts, Men's Sweat Shirts, Boys' Sweat Shirts, Men's Sweaters, Caps, Hats, Mittens, Neck Ties and Polo Shirts.
Claims use since 1919.

Ser. No. 586,032. New Era Shirt Company, St. Louis, Mo. Filed Sept. 24, 1949.

NYLEEN

For Men's Outer Shirts.
Claims use since May 9, 1949.

Ser. No. 589,792. Manuel M. Lihn, doing business as Clementon Hosiery Mill, Clementon, N. J. Filed Dec. 22, 1949.

Lin Vue

For Ladies' Hosiery.
Claims use since Dec. 10, 1949.

Ser. No. 589,808. W. Shanhouse Sons, Incorporated, Rockford, Ill., assignor to Dri-Clad Corporation, Rockford, Ill., a corporation of Illinois. Filed Dec. 22, 1949.

DRI-CLAD

For Men's and Women's Waterproof Sports Garments—Namely, Waders and Wader Tops.
Claims use since Oct. 15, 1949.

Ser. No. 596,371. S. Wasserman & Son, Inc., New York, N. Y. Filed Apr. 26, 1950.

Transformit

For Ladies' Fur Coats, Ladies' Cloth Coats, Ladies' Fur Capes, Ladies' Suits.
Claims use since Jan. 11, 1950.

Ser. No. 596,430. Merrimac Hat Corporation, New York, N. Y. Filed Apr. 27, 1950.

Regent

For Men's, Women's, and Children's Hats and Hat Bodies.
Claims use since Nov. 15, 1949.

Ser. No. 598,054. Bernhard Wolf Corp., New York, N. Y. Filed May 24, 1950.



For Handkerchiefs.
Claims use since Apr. 3, 1950.

Ser. No. 599,858. Avon Sole Company, Avon, Mass. Filed June 28, 1950.

AVON
CUSH-N-FOAM

The expression "Cush-N-Form" is disclaimed. Applicant claims ownership of Registrations Nos. 418,714 and 550,326.
For Shoe Soles.
Claims use since June 5, 1950.

Ser. No. 601,539. Delightform Foundations, Inc., Easton, Pa. Filed Aug. 1, 1950.

BRA-MATES

The word "Bra" is disclaimed.
For Brassières, Garter Belts, Girdles, and Slips.
Claims use since May 1, 1950.

Ser. No. 603,182. Burt Brothers (Hosiery) Limited, Nottingham, England. Filed Sept. 6, 1950.

BURTAS

Applicant claims ownership of British Registration No. B.670,265, dated June 14, 1948.
For Men's, Women's, Children's Wearing Apparel—Namely, Hosiery, Underwear Consisting of Shirts, Shorts, Drawers and Union Suits, Panties, Knickers, Trunks, Petticoats, Bodices, Corsets, Brassières, Pyjamas, Night-Dresses, Sleeping Suits, Dressing Gowns and Jackets, Bed-Jackets, House-Coats, Coats, Suits, Waistcoats, Trousers, Slacks, Outer Shorts, Outer Skirts, Frocks, Spencers, Mantles, Shawls, Sweaters, Rompers, Sports Shirts, and Blouses, Football Jerseys, Gym Shirts, Bathing-Suits and Trunks, Scarves, Lumber Coats, Boys' Jerseys, Jersey Suits, Infants' Pram Suits, Matinee Coats, Play Suits, Men's Pants, All Being Knitted Articles of Clothing.

Ser. No. 604,037. Seneca Knitting Mills Co., Inc., Seneca Falls, N. Y. Filed Sept. 26, 1950.

Red Jacketeer

Applicant claims ownership of Registration No. 159,104.
For Slipper Socks.
Claims use since May 1950.

Ser. No. 604,038. Seneca Knitting Mills Co., Inc., Seneca Falls, N. Y. Filed Sept. 26, 1950.

Red Topper

Applicant claims ownership of Registration No. 163,624.
For Slipper Socks.
Claims use since May 1950.

Ser. No. 607,085. The Frank H. Lee Company, Danbury, Conn. Filed Nov. 29, 1950. (Sec. 2f.)

LEE

Applicant claims ownership of Registrations Nos. 274,050, 321,027, and others.
For Men's, Women's, and Boys' Hats, Men's and Boys' Caps, and Ladies' Hat Bodies.
Claims use since January 1903.

Ser. No. 607,424. Walter E. Fritz, doing business as The Landing Knitting Co., Landingville, Pa. Filed Dec. 8, 1950.

LAN TEX

For Infant's Shirts and Training Panties; Men's and Boys' Briefs, Athletic Shirts, T-Shirts, and Shorts; Misses' and Ladies' Bloomers.
Claims use since July 12, 1938.

Ser. No. 608,481. Tonak, Továrny Na Klobouky, Národní Podnik, Novy Jicin, Czechoslovakia. Filed Jan. 6, 1951.

Tonak

Applicant claims ownership of Czechoslovakian Registration No. 150,196, dated June 22, 1950.
For Men's and Boys' Hats and Hat Bodies Made of Hair, Wool, Felt, or Velour Felt.
Claims use since October 1946; and use in commerce between foreign nations and the United States on Dec. 18, 1946.

Ser. No. 610,804. H. Siegfried & Sons, Inc., St. Louis, Mo. Filed Mar. 3, 1951.

MASTERBILT
Nyl-Gab

The words "Gab" and "Masterbilt" are disclaimed.
For Men's and Boys' Trousers and Slacks.
Claims use since November 1950.

Ser. No. 611,046. Stern, Merritt Co. Inc., New York, N. Y. Filed Mar. 8, 1951.

SHAMROCK

Applicant claims ownership of Registration No. 277,814.
For Neckwear—Namely, Neckties, Cravats, and Scarves.
Claims use since April 1929.

Ser. No. 611,901. Kingsboro Silk Mills, Inc., Chattanooga, Tenn. Filed Mar. 28, 1951.

Perkies

Applicant claims ownership of Registration No. 292,652.
For Brassières, Corsets, Bandeaux, Corset and Brassière Combinations, Panties, Chemises, Slips, Vests, Gowns, and Petticoats.
Claims use since Oct. 15, 1931.

Ser. No. 612,066. William H. Gosch, Reading, Pa. Filed Mar. 31, 1951.

Fashionates

For Women's Hosiery.
Claims use since Feb. 15, 1951.

Ser. No. 614,090. C. H. Masland & Sons, Carlisle, Pa. Filed May 19, 1951. (Sec. 2f.)

MASLAND

Applicant claims ownership of Registration No. 431,546.
For Sportswear—Namely, Hunting and Fishing Coats, Vests, and Jackets, Equipped With Detachable Game Pockets and Fish Creels Tailored as Part of the Garment Assembly and Sold Therewith Except When Sold as Replacements, and Capes.
Claims use since Mar. 20, 1946.

Ser. No. 615,852. A. Sagner's Son, Baltimore, Md. Filed June 28, 1951. (Sec. 2f.)

Englishtown Clothes

The word "Clothes" is disclaimed. Applicant claims ownership of Registration No. 334,585.
For Men's and Women's Coats and Suits; Men's Trousers, Dress and Work Shirts, Neckties and Bathrobes.
Claims use since Jan. 15, 1927.

Ser. No. 615,910. Stix, Baer and Fuller Company, St. Louis, Mo. Filed June 29, 1951.

ROYSTON - U

Applicant claims ownership of Registrations Nos. 242,820. 501,798, and 501,799.
For Men's and Boys' Suits, Topcoats, and Sweaters.
Claims use since Mar. 15, 1951.

Ser. No. 616,573. John B. Stetson Company, Philadelphia, Pa. Filed July 16, 1951. (Sec. 2f.)

THE Madison

For Hats and Caps for Men, Women, and Children.
Claims use since July 14, 1924.

Ser. No. 616,861. The Moyer Manufacturing Company, Youngstown, Ohio. Filed July 24, 1951.

FOUR HORSEMEN

For Men's and Boys' Slacks.
Claims use since Apr. 15, 1951.

Ser. No. 617,408. Leonards, Fort Worth, Tex. Filed Aug. 7, 1951.

ROGERS SQUARE

For Men's Suits, Sport Coats, and Topcoats.
Claims use since July 1, 1951.

Ser. No. 617,418. Henry Pollak, Inc., New York, N. Y. Filed Aug. 7, 1951.

CROSSPATCH

For Hat Bodies.
Claims use since Apr. 24, 1951.

Ser. No. 618,018. Belmont Clothes, Inc., Baltimore, Md. Filed Aug. 24, 1951.

Sabre

For Men's and Young Men's Suits, Trousers, Slacks, Outer Shirts, Sport Coats, Dress Coats, Jackets, Leisure Coats, and Leisure Shirts.
Claims use since July 10, 1951.

Ser. No. 618,019. Belmont Clothes, Inc., Baltimore, Md. Filed Aug. 24, 1951.

Sword

For Men's and Young Men's Suits, Trousers, Slacks, Outer Shirts, Sport Coats, Dress Coats, Jackets, Leisure Coats, and Leisure Shirts.
Claims use since July 10, 1951.

Ser. No. 618,497. International Latex Corporation, Dover, Del. Filed Sept. 7, 1951.

DRESS-EEZ

For Water-Proof Baby Pants.
Claims use since Mar. 16, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 561,795. Beacon Manufacturing Company, Swannanoa, N. C. Filed July 21, 1948.



The word "Blankets" is disclaimed. Applicant claims ownership of Registrations Nos. 62,893, 99,536, 99,538, 159,658, and 316,675.
For Blankets Made Wholly of Cotton, of Cotton and Rayon, or of Cotton, Rayon and Wool; Plaid, Indian, Camping, Government, Army, Navy, Crib, Wrapper, Bed, and Bathrobe Blankets; Bed Comfortables, Including Jacquard; Quilts; Traveling and Steamer Blanket Robes; and Blanket Fabrics of Cotton, of Cotton and Rayon, or of Cotton, Rayon, and Wool.
Claims use since 1940.

Ser. No. 563,995. Beacon Manufacturing Company, Swannanoa, N. C. Filed Apr. 6, 1948.

Beacon Blankets
make Warm Friends

The word "Blankets" is disclaimed. Applicant claims ownership of Registrations Nos. 62,895, 99,536, 159,658, 316,675, and others.
For Blankets Made Wholly of Cotton, of Cotton and Rayon, or of Cotton, Rayon and Wool; Plaid, Indian, Camping, Government, Army, Navy, Crib, Wrapper, Bed, and Bathrobe Blankets; Bed Comfortables, Including Jacquard; Quilts; Traveling and Steamer Blanket Robes; and Blanket Fabrics of Cotton, of Cotton and Rayon, or of Cotton, Rayon, and Wool.
Claims use since August 1919.

Ser. No. 586,483. The Holland Shade Company, New York, N. Y. Filed Oct. 18, 1949.

BAMBINO

For Woven Split Bamboo Window Curtains and Draperies, and Woven Split Bamboo Material for Making Into Same.
Claims use since Sept. 26, 1949.

Ser. No. 601,501. Latis-Lyt, Inc., Culver City, Calif. Filed July 31, 1950.

Latisglas

For Woven Fabric of Glass Yarn, Especially for Use in Covering Greenhouse Frames.
Claims use since Feb. 1, 1950.

Ser. No. 608,133. Velveray Corporation, Clifton, N. J. Filed Dec. 27, 1950.

SWIRLTONE

For Plastic Film for Manufacture Into Clothing, Draperies, Covers, and the Like.
Claims use since Oct. 15, 1950.

Ser. No. 613,319. Eugene T. Barwick, doing business as E. T. Barwick Mills, Chamblee, Ga. Filed Apr. 30, 1951.

Chats-Weve

The term "Weve" is disclaimed.
For Cotton Textile Products—Namely, Rugs and Carpeting.
Claims use since Sept. 1, 1949.

Ser. No. 615,078. Pacific Mills, Boston, Mass., and New York, N. Y. Filed June 12, 1951.

PAMILIZED

Applicant claims ownership of Registrations Nos. 90,469, 503,506, and 533,488.
For Rayon Piece Goods.
Claims use since Jan. 7, 1949.

Ser. No. 615,128. Levy Brothers Dry Goods Company, Houston, Tex. Filed June 13, 1951.

Syrel

Applicant claims ownership of Registration No. 272,642.
For Bath Towels, Linen Towels, Wash Cloths, Bed Sheets, Comforts, Blankets, and Rayon Piece Goods.
Claims use since Jan. 5, 1946.

Ser. No. 615,529. Beacon Looms Inc., New York, N. Y. Filed June 22, 1951.

"TRULON"

For Window Curtains and Curtain Fabrics in the Piece Made of Silk, Cotton, Rayon, Nylon, and Other Synthetic Fibers and Mixtures Thereof.
Claims use since Feb. 1, 1951.

Ser. No. 616,776. Naumkeag Steam Cotton Company, Salem, Mass. Filed July 21, 1951.

PEQUOTIL

Applicant claims ownership of Registrations Nos. 44,597 and 297,360.
For Sheets and Pillow Cases.
Claims use since June 12, 1951.

Ser. No. 617,734. Sovereign International Corporation, New York, N. Y. Filed Aug. 15, 1951.



For Cotton, Rayon, and Woolen Piece Goods.
Claims use since July 20, 1951.

Ser. No. 617,876. Howse, Mead & Sons, Inc., New York, N. Y. Filed Aug. 20, 1951.

MEADSONS COOLEST

The word "Coolest" is disclaimed.
For Worsted Fabrics in the Piece.
Claims use since January 1926.

Ser. No. 619,226. Burlington Mills Corporation, Greensboro, N. C. Filed Sept. 26, 1951.

NYLOMIST

For Textile Fabrics in the Piece Made of Synthetic Fibers.
Claims use since Oct. 1, 1947.

Ser. No. 621,053. Collins & Aikman Corporation, Philadelphia, Pa. Filed Nov. 9, 1951.

CANDALON

Applicant claims ownership of Registrations Nos. 275,448 and 543,414.
For Piece Goods of Wool, Cotton, Mohair, and Synthetic Fibers, of Plastic and Synthetic Yarns, and of Mixtures Thereof, for Use in the Manufacture of Wearing Apparel.
Claims use since October 1947.

Ser. No. 621,239. United Merchants and Manufacturers, Inc., New York, N. Y. Filed Nov. 14, 1951.



Applicant claims ownership of Registrations Nos. 330,978, 502,579, and 522,745.
For Piece Goods of Cotton, Wool, Rayon, Nylon, Linen, and/or Silk, or Combinations Thereof.
Claims use since Sept. 1, 1948.

Ser. No. 621,258. Cone Export and Commission Co., Inc., New York, N. Y. Filed Nov. 15, 1951.

DEEPWATER

For Cotton Piece Goods.
Claims use since Apr. 26, 1951.

Ser. No. 621,451. Burlington Mills Corporation, Greensboro, N. C. Filed Nov. 20, 1951.

CHECKMASTER

For Textile Fabrics in the Piece Made of Synthetic Fibers.
Claims use since Dec. 26, 1950.

Ser. No. 621,452. Burlington Mills Corporation, Greensboro, N. C. Filed Nov. 20, 1951.

FROSTOP

For Textile Fabrics in the Piece Made of Synthetic Fibers.
Claims use since Dec. 26, 1950.

Ser. No. 621,460. Goodman & Theise, Inc., New York, N. Y. Filed Nov. 20, 1951.

CAVIAR & CHAMPAGNE

For Piece Goods of Rayon, Nylon, Silk, Cotton, Wool, and Combinations Thereof.
Claims use since June 28, 1951.

Ser. No. 621,530. Soptra Fabrics, Inc., New York, N. Y. Filed Nov. 21, 1951.

PLAIDTIME

For Cotton, Rayon, and Woolen Piece Goods.
Claims use since May 31, 1951.

Ser. No. 621,720. Naumkeag Steam Cotton Company, Salem, Mass. Filed Nov. 27, 1951.

BROADWAY

For Sheets and Pillow Cases.
Claims use since January 1941.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 605,469. DePuy Manufacturing Company, Inc., Warsaw, Ind. Filed Oct. 27, 1950. (Sec. 2f.)

De Puy

Applicant claims ownership of Registrations Nos. 507,788 and 182,861.
For Fracture Appliances, Such as Splints, Hyperextension Frames, Sterilizing Racks, Stainless Steel Surgical Pins, Nails, and Screws, Fracture Tables and Beds, Plaster Cast Cutters, Surgical Braces, and Surgical Bone Saws and Chisels.
Claims use since Jan. 2, 1903.

Ser. No. 617,114. Lasso Tapes, Inc., New York, N. Y. Filed July 30, 1951.

HY-TAPE

The word "Tape" is disclaimed.
For Flexible Adhesive Tape for Surgical Use.
Claims use since May 18, 1951.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 540,544. Lifter Bottling Company of Chicago, Chicago, Ill., Francis J. Curtis, receiver in bankruptcy of said Lifter Bottling Co. of Chicago, assignor to David Shuman, Chicago, Ill. Filed Nov. 8, 1947.

PEACOCK

Applicant claims ownership of Registration No. 230,642.
For Non-Alcoholic, Maltless Beverage Sold as a Soft Drink.
Claims use since Mar. 1, 1925.

Ser. No. 587,044. The Nedlog Company, Chicago, Ill. Filed Oct. 29, 1949.



The drawing is lined for the colors blue and orange.
For Grape Juices, Concentrates, Emulsions, Extracts, and Syrups Used for Mixing and Making Maltless Soft Drinks, Both Carbonated and Noncarbonated.
Claims use since May 1930.

Ser. No. 590,426. The Cook Coffee Company, Cleveland, Ohio. Filed Jan. 6, 1950. (Sec. 2f.)



The words "Coffee Company" are disclaimed.
For Fruit Flavored Powdered Preparation for Making Non-Alcoholic, Non-Carbonated, Maltless Soft Drinks.
Claims use since March 1935.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 519,640. Fearn Laboratories, Inc., Franklin Park, Ill., now by change of name Fearn Foods, Inc. Original filed, act of 1905, Mar. 27, 1947; amended to application under act of 1946, Principal Register, Aug. 8, 1947.



The vertical hatching on the drawing indicates red coloring.
For Canned Soups, Soup Bases in Paste Form and Canned Soup Concentrates; Seasonings and Seasoning Compounds for Meats, Fish, Soups, Gravies, Sauces, Salads, Etc., in Powder, Liquid, and Paste Forms, Comprising Plant Proteins, Vegetable Juices or Powders, and Other Ingredients; Tenderizer in Liquid Form for Tenderizing Meats; Tenderizer in Powder Form for Flavoring, Seasoning, and Tenderizing Foods; Gravy Powder; Chop Suey Sauce; Cereal Breakfast Foods; Cereal Meat Extenders in Powder Form (Containing No Meat Product); and Gravy Coloring and Seasoning in Liquid Form.
Claims use since Feb. 17, 1947.

Ser. No. 534,152. Chas. A. Krause Milling Co., Milwaukee, Wis. Filed Sept. 11, 1947.

MAIZFETTI

For Flakes Made From White or Yellow Corn and Used in the Manufacture of Bakery Goods and Confections and Sold Only to Manufacturers of Bakery Products and Confections.
Claims use since December 1931.

Ser. No. 538,163. Paulus Bros. Packing Co., Salem, Oreg. Filed Oct. 17, 1947.

WHITE TAG

The exclusive right to the use of a tag colored white is disclaimed. Applicant claims ownership of Registration No. 183,983.
For Canned Fruits and Vegetables.
Claims use since Feb. 17, 1923.

Ser. No. 541,118. Filice & Perrelli Canning Company, Inc., Richmond, Calif. Filed Nov. 14, 1947. (Sec. 2f.)

WONDER COOKING

For Canned Fruits and Canned Vegetables.
Claims use since Jan. 15, 1920.

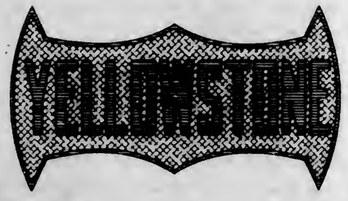
Ser. No. 542,657. River Brand Rice Mills, Inc., New York, N. Y. Filed Nov. 28, 1947. (Sec. 2f.)

RIVER
BRAND



The word "Brand" is disclaimed. Applicant claims ownership of Registration No. 293,574.
For Rice.
Claims use since March 1912.

Ser. No. 547,799. Van Dusen Harrington Co., Minneapolis, Minn., now by change of name from King Midas Mill Company, and also known as King Midas Flour Mills. Filed Jan. 22, 1948. CONCURRENT USE with Serial No. 564,436 for the area comprising the States of Minnesota, Wisconsin, Illinois, Indiana, Ohio, Michigan, Florida, Maryland, New Jersey, New York, Mississippi, Alabama, Georgia, South Carolina, North Carolina, Tennessee, Kentucky, Virginia, West Virginia, Delaware, Pennsylvania, Connecticut, Rhode Island, Massachusetts, Vermont, New Hampshire, and Maine.



For Wheat Flour.
Claims use since 1906.

Ser. No. 549,871. Percy Barker, San Mateo, Calif. Filed Feb. 17, 1948.

CHERRY - BERRY - BING

For Fruit and Berry Preserves.
Claims use since July 17, 1947.

Ser. No. 552,555. Flour Mills of America, Inc., doing business as The Kansas Flour Mills Company and also under the name of Valier & Spies Milling Co., Kansas City, Mo. Filed Mar. 12, 1948.

Vogue

For Wheat Flour.
Claims use since May 12, 1913.

Ser. No. 553,120. Abner Michaud, doing business as A. Michaud Co., Philadelphia, Pa. Filed Mar. 26, 1948.

MICHAUD'S
SILVER BOND

The surname "Michaud's" is disclaimed.
For Fresh Meat—Namely, Beef Steak and Lamb Chops.
Claims use since Dec. 22, 1947.

Ser. No. 554,045. Ralston Purina Company, St. Louis, Mo. Filed Apr. 7, 1948. (Sec. 2f as to "Ralston.")

Instant
Ralston

The word "Instant" is disclaimed. Applicant claims ownership of Registrations Nos. 62,460 and 524,634.
For Whole Wheat Cereal Breakfast Food.
Claims use since March 1941.

Ser. No. 556,319. The Colorado Milling & Elevator Co., doing business under the style name of The Monte Vista Flour Mills, Denver, Colo. Filed May 6, 1948. CONCURRENT USE with Reg. No. 285,170 for the area comprising Colorado, New Mexico, and Wyoming.



The drawing is lined to indicate red.
For Wheat Flour.
Claims use since June 7, 1897.

Ser. No. 560,343. Mutual Orange Distributors, Redlands, Calif. Filed June 28, 1948. COLLECTIVE MARK.

PAR
GOLD

Applicant claims ownership of Registration No. 349,723.
For Fresh Citrus Fruits.
Claims use since May 12, 1948.

Ser. No. 564,436. The Colorado Milling & Elevator Co., doing business under the name and style of St. Anthony Flour Mills, Denver, Colo. Filed Aug. 31, 1948. (Sec. 2f.) CONCURRENT USE with Serial No. 547,799 for the area comprising Washington, Oregon, California, Nevada, Idaho, Utah, Arizona, Montana, Wyoming, Colorado, New Mexico, North Dakota, South Dakota, Nebraska, Kansas, Oklahoma, Texas, Iowa, Missouri, Arkansas and Louisiana.



SPECIAL

Applicant disclaims exclusive use of the word "Special" per se and apart from the mark. Applicant claims ownership of Registration No. 179,401.
For Wheat Flour.
Claims use since March 1909.

Ser. No. 565,655. S. A. Schonbrunn & Co., Inc., New York, N. Y. Filed Sept. 22, 1948.

MEDAGLIA D'ORO

The words "Medaglia D'Oro" are the translation of "Gold Medal" in the Italian language.
For Coffee and Tea.
Claims use since 1924.

Ser. No. 571,991. Preston-Shaffer Milling Co., Walla Walla, Wash. Filed Jan. 11, 1949.



The expression "Pure White" is disclaimed.
For Wheat Flour.
Claims use since Mar. 1, 1912.

Ser. No. 575,421. Mother's Food Products, Inc., Newark, N. J. Filed Mar. 14, 1949.



The drawing is lined for yellow, green, and black.
For Borscht.
Claims use since Feb. 9, 1949.

Ser. No. 580,013. Broadacre Dairies, Inc., Powell Station, Tenn. Filed June 6, 1949.

GOOD COW

For Frozen Confections on Sticks.
Claims use since Mar. 30, 1949.

Ser. No. 580,351. Van Dusen Harrington Co., by change of name from King Midas Mill Company, Minneapolis, Minn. Filed May 23, 1949.



The drawing is lined for blue and yellow but color is disclaimed.
For Wheat Flour.
Claims use since May 1, 1943.

Ser. No. 584,042. Juice Industries, Inc., Dunedin, Fla., assignor to Clinton Foods Inc., St. Louis, Mo., a corporation of Delaware. Filed July 15, 1949.

Sun-Filled

Applicant claims ownership of Registrations Nos. 538,163, 385,165, and 270,123.
For Concentrated Orange Juice.
Claims use since Jan. 6, 1949.

Ser. No. 589,060. The American Jersey Cattle Club, Columbus, Ohio. Filed Dec. 9, 1949.



The words "Jersey" and "Milk" are disclaimed. Applicant claims ownership of Registrations Nos. 242,398 and 332,457.
For Liquid Milk.
Claims use since Aug. 28, 1927.

Ser. No. 590,207. Williamson Candy Company, Chicago, Ill. Filed Dec. 30, 1949.

Oh Henry! Party Pak

The words "Party Pak" are disclaimed. Applicant claims ownership of Registrations Nos. 152,550 and 384,529.
For Candy.
Claims use since Oct. 10, 1949.

Ser. No. 592,042. The Miami Margarine Company, Cincinnati, Ohio. Filed Feb. 6, 1950.

• Valerie •

For Margarine.
Claims use since Apr. 26, 1949.

Ser. No. 592,639. Lea Foods, Inc., Albert Lea, Minn. Filed Feb. 17, 1950.

LEA-LAC

The word "Lac" is disclaimed.
For Dried Buttermilk Powder.
Claims use since Jan. 4, 1950.

Ser. No. 594,827. Bradley Candy Mfg. Co., doing business as Bradley Candy Co., Nashville, Tenn. Filed Mar. 29, 1950.

Be-Bops

For Candy.
Claims use since Jan. 1, 1950.

Ser. No. 595,319. B. Heller & Company, Chicago, Ill. Filed Apr. 6, 1950. (Sec. 2f as to "Zanzibar.")



Applicant claims ownership of Registrations Nos. 108,792, 109,938, and others.

For Food Flavorings and Extracts in Liquid or Dry Form—Namely, Almond, Anise, Imitation Apricot, Imitation Banana, Imitation Brandy, Imitation Butter, Imitation Butterscotch, Cake, Imitation Champagne, Imitation Cherry, Cloves, Imitation Coconut, Imitation Grape, Lemon, Lime, Imitation Maraschino, Imitation Maple, Orange, Imitation Peach, Peppermint, Imitation Pineapple, Imitation Pistachio, Imitation Raspberry, Imitation Roman Punch, Imitation Rum, Imitation Strawberry, Imitation Tutti Frutti, Imitation Black Walnut; Spices—Namely, Allspice, Anise Seed, Bay Leaves, Caraway Seed, Cardamom, Cinnamon, Cloves, Cumin, Coriander, Fennel Seed, Ginger, Mace, Marjoram, Mustard, Nutmeg, Oregano, Paprika, Pepper, Poppy Seed, Sage, Savory, Thyme; Spice Preparations for Seasoning Bologna, Blood Sausage, Braunschweiger Liver, Chile, Corned Beef, Frankfurt, Hamburger, Head Cheese and Souse, Liver Sausage, Meat Loaf, Mettwurst, Minced Ham, Pickled Tongue and Pig Feet, Pickling Spice Mixture, Polish Sausage, Salami Sausage, Scrapple, Summer Sausage, Swedish Potato Sausage, Pork Sausage; Cocoa; a Base for Making a Cocoa-Flavored Food Drink; an Acidifier—Namely, an Acid Compound for Imparting Tartness to Food Products Consisting Principally of Phosphoric Acid and Citric Acid; and a Compound for Use in Preserving Foods Consisting Principally of Bicarbonate of Soda, Salt and Paprika.

Claims use since Dec. 1, 1949, as to the mark shown; and since December 1893 as to the mark "Zanzibar."

Ser. No. 595,454. Delham Food Products Co., Inc., Cambridge, Mass. Filed Apr. 8, 1950.

KIM'S

For Dog Food.
Claims use since Sept. 1, 1948.

Ser. No. 599,553. Cresca Company, Inc., New York, N. Y. Filed June 22, 1950.



The words "Fine Foods Since 1878" and "More Than a Little Better" are disclaimed. Applicant claims ownership of Registrations Nos. 39,568, 61,058, and others.

For Anchovy Paste, Bacon Rinds, Bar le Duc, Caviar, Crackers, Dates, Figs, Fish Spreads, Frankfurts, Fruit Cake, Ginger, Guava Jelly, Honey, Lime Slices and Syrup, Maple Syrup, Maraschino Cherries, Mustard, Olives, Olive Oil, Orange Syrup and Slices, Peas, Pickled Onions, Pickles, Pimentos, Pork Sausages, Preserved Cut Fruits, Preserved Kumquats, Pumpkin Seeds of Edible Kind, Puree de Foie Gras, Raisin Sauce, Raspberry Syrup, Salted Nuts, Shellfish, Tomato Aspic, and Vinegar, All of Which Are Contained in Cans or Jars.

Claims use since Oct. 15, 1948, as to the mark shown; since Sept. 15, 1902, as to the mark "Cresca"; and since in 1908 as to the phrase "More Than a Little Better."

Ser. No. 600,061. Andrew Mackis, doing business as Andy's Dinner House, Sacramento, Calif. Filed June 30, 1950.



The words "Salad Dressing" and "The Dressing for All Purposes" are disclaimed.

For Salad Dressing.
Claims use since Aug. 1, 1945.

Ser. No. 601,482. Sunshine Biscuits, Inc., Long Island City, N. Y. Filed July 29, 1950.



The figure portrayed is fanciful.

For Crackers, Biscuits, Pretzels, Wafers, Cookies in Sandwich Form, and Shredded Wheat.
Claims use since January 1931.

Ser. No. 603,330. Barricini, Inc., New York and Long Island City, N. Y. Filed Aug. 10, 1950. (Sec. 2f as to "Barricini.")



Applicant claims ownership of Registrations Nos. 310,433, 395,102, and others.

For Candy, Candied and Chocolate Covered Nuts; and Candied Fruits.

Claims use since Aug. 2, 1948 as to the mark shown; and since Feb. 9, 1928 as to the mark "Barricini."

Ser. No. 604,861. Philip L. Puccia, doing business as P. Puccia Company, Hyde Park, Boston, Mass. Filed Oct. 13, 1950.



The representation of the chef is fanciful, and not that of any living individual. The word "Puccia" is disclaimed.

For Garlic Heads.
Claims use since Oct. 9, 1950.

Ser. No. 604,982. Masterpiece Foods, Inc., Santa Maria, Calif. Filed Oct. 16, 1950.

Vita Nuova (NEW LIFE)

Applicant claims ownership of Registration No. 120,833.

For Canned Green Chili Peppers, Canned Tomatoes, Canned Tomato Paste, and Canned Tomato Puree.
Claims use since July 20, 1950.

Ser. No. 605,284. Frank M. Wilson Company, Stockton, Calif. Filed Sept. 26, 1950.

"pieces of 8"

Applicant claims ownership of Registration No. 240,132.

For Canned Tomato Catsup and Canned Fruits.
Claims use since Oct. 1, 1927.

Ser. No. 606,116. A. Berkowitz Co., Chicago, Ill. Filed Nov. 9, 1950. (Sec. 2f.)

BERKY

For Fresh Tomatoes.
Claims use since Apr. 10, 1940.

Ser. No. 606,856. Cranberry Growers, Inc., Wisconsin Rapids, Wis. Filed Nov. 24, 1950.

CRANBEST

For Fresh Cranberries.
Claims use since Sept. 27, 1950.

Ser. No. 607,583. El Chico Cafe, Dallas, Tex. Filed Dec. 12, 1950.



The picture shown on the drawing is fanciful. The words "Mexican Brand Food Made in Texas" are disclaimed.

For Canned Goods—Namely, Tamales, Chili Con Carne, Menudo (Beef Tripe), Enchiladas.
Claims use since Jan. 1, 1940.

Ser. No. 607,611. Spreckels Sugar Company, San Francisco, Calif. Filed Dec. 12, 1950.



The drawing is lined for blue, but no claim is made to color. Applicant claims ownership of Registration No. 259,068.

For Sugar.
Claims use since February 1936 as to the mark shown; and since Sept. 5, 1922 as to mark comprising the words "Honey-Dew."

Ser. No. 607,797. Robert D. Commons, doing business under the assumed name of Chicken Bye Bye, Muskegon, Mich. Filed Dec. 18, 1950.

CHICKEN BYE-BYE

The word "Chicken" is disclaimed.
For Cooked Poultry.
Claims use since Oct. 14, 1948.

Ser. No. 608,088. Salem Commodities, Incorporated, doing business as Tuxedo Candy Company, Baltimore, Md., and Los Angeles, Calif. Filed Dec. 26, 1950. (Sec. 2f.)

FLUFF-TEST

Applicant claims ownership of Registration No. 294,586.

For Marshmallows.
Claims use since Mar. 1, 1931.

Ser. No. 608,305. Friendship Dairies, Inc., New York, N. Y. Filed Jan. 3, 1951.

Friendship BRAND

The word "Brand" is disclaimed.
For Cheese.
Claims use since Sept. 30, 1949.

Ser. No. 609,341. Jamaica Food Co., Brooklyn, N. Y. Filed Jan. 27, 1951.

MIRIAM

For Canned Goods—Namely, Fish, Vegetables, Citrus Fruit Juices, Fruits, Fruit Preserves, and Jellies.
Claims use since 1916.

Ser. No. 609,562. New Jersey Egg Institute, Inc., Toms River, N. J. Filed Feb. 2, 1951. CERTIFICATION MARK.

JERSEY JILL

The word "Jersey" is disclaimed.
For Fresh Shell Eggs.
Claims use since Jan. 8, 1951.

Ser. No. 609,569. Standard Milling Company, Chicago, Ill. Filed Feb. 2, 1951.

Ceresota

Applicant claims ownership of Registrations Nos. 47,197, 47,204, 501,753, and 531,681.
For Flour Mix for Use in Making Hot Breads, Pastries, Pancakes, and Waffles.
Claims use since Oct. 12, 1950.

Ser. No. 612,257. Hardie Brothers Company, Pittsburgh, Pa. Filed Apr. 5, 1951. (Sec. 2f.)

Hardie's

For Candy.
Claims use since 1904.

Ser. No. 613,274. Walla Walla Canning Company, Walla Walla, Wash. Filed Apr. 27, 1951.

SUNSET VALLEY

For Canned Fruits and Vegetables.
Claims use since September 1933.

Ser. No. 613,961. Alma Dairy Products Association, Alma, Wis. Filed May 17, 1951.

WONDERMIX

For Dried Milk Solids for Use in Frozen Desserts Being Sold Only to Manufacturers and Not to Consumers in the Usual Channels of Trade.
Claims use since Aug. 17, 1950.

Ser. No. 614,387. Chr. Bjelland & Co., A/S, Stavanger, Norway, and New York, N. Y. Filed Apr. 28, 1951.

SEAGIRL

Applicant claims ownership of Norwegian Registration No. 1,428, dated Oct. 21, 1912, and United States Registration No. 245,842.
For Canned Sardines.
Claims use since Oct. 21, 1912; and use in commerce between foreign nations and the United States since Oct. 21, 1912.

Ser. No. 616,447. Portner's Home Bakery Inc., Margate City, N. J. Filed July 13, 1951.



Mrs. Portner's Famous
INDIVIDUAL
Buttered Cinnamon Buns

The portrait is that of Mrs. Rose Portner whose consent is given. The words "Mrs. Portner's" and "Famous Individual Buttered Cinnamon Buns" and the representation of the goods is disclaimed.
For Individual Buttered Cinnamon Buns.
Claims use since June 27, 1951.

Ser. No. 616,702. Martha Drueding Hardy, doing business as Drumon Fine Foods, New Orleans, La. Filed July 20, 1951.

Drumon

For Meatless Stuffing and Giglet Stuffing.
Claims use since May 1, 1950.

Ser. No. 618,120. McCormick & Company, Incorporated, Baltimore, Md. Filed Aug. 27, 1951.

Mc

Applicant claims ownership of Registrations Nos. 362,407, 425,260, 510,053, and 532,375.
For Mixture of Cinnamon and Sugar for Use in Flavoring and Sweetening Comestibles.
Claims use since July 31, 1951.

Ser. No. 618,343. Anthony N. Castro, doing business as Castro & Son, Los Angeles, Calif. Filed Sept. 4, 1951.

GOLD DUST

For Fresh Vegetables.
Claims use since Aug. 25, 1951.

Ser. No. 618,747. Knauf & Tesch Company, Chilton, Wis. Filed Sept. 13, 1951.

K. T.

For Dairy Feed, Chick Scratch, Hen Scratch, Poultry Balancer, Calf Pellets, and Special Bantam Feed.
Claims use since 1920.

Ser. No. 619,173. Winn & Lovett Grocery Company, Jacksonville, Fla. Filed Sept. 24, 1951.



The drawing is lined for shading only. The words "Georgia" and "Florida" and representation of the map of Georgia and Florida are disclaimed.
For Bread.
Claims use since Nov. 1, 1950.

Ser. No. 619,647. Louis Rosenberg, trading as The Thrivo Company, Philadelphia, Pa. Filed Oct. 5, 1951.

DOGALOGUE

For Dog and Cat Food.
Claims use since Aug. 14, 1951.

CLASS 48

MALT BEVERAGES AND LIQUORS

Ser. No. 614,772. Theo. Hamm Brewing Co., St. Paul, Minn. Filed June 5, 1951. (Sec. 2f as to "Hamm's.")



The drawing is lined for gold, red, and blue. The words "Smooth Beer Mellow" and "Preferred" are disclaimed. Applicant claims ownership of Registrations Nos. 533,200 and 537,727.
For Beer.
Claims use since Feb. 16, 1951, as shown; and since Nov. 10, 1894, as to "Hamm's."

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 608,236. Carstairs Bros. Distilling Co., Inc., New York, N. Y. Filed Dec. 30, 1950.



For Alcoholic Beverages—Namely, Whiskey.
Claims use since Sept. 7, 1940.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 585,812. Radiant Manufacturing Corp., Chicago, Ill. Filed Oct. 5, 1949.

VYNA-FLECT

For Glass Beaded Fabrics for Making Screens for the Display of Light-Projected Motion and Still Pictures.
Claims use since Aug. 15, 1949.

Ser. No. 593,276. Jamestown Finishing Products, Inc., Jamestown, N. Y. Filed Mar. 2, 1950.

SUPERHYDE

For Plastic Sheet Material Simulating Leather.
Claims use since Nov. 16, 1949.

Ser. No. 600,954. General Felt Products Co., Chicago, Ill. Filed July 20, 1950.

RUBBER-STEP

The word "Rubber" is disclaimed.
For Rug and Carpet Cushions.
Claims use since Apr. 22, 1950.

Ser. No. 609,148. Slik-Shav Incorporated, Detroit, Mich. Filed Jan. 23, 1951.



For Disposable Pocket Shaving Kits Containing Cream, Razor, and Blade.
Claims use since May 1950.

Ser. No. 610,380. John Dickinson Schneider, doing business as Franklin C. Hollister Co., Chicago, Ill. Filed Feb. 21, 1951.

Ident-A-Band

The word "Band" is disclaimed.
For Bands or Bracelets of Flexible Material as Plastic Tubing, Bearing Identifying Indicia and Designed To Encircle the Wrist or Ankle of a Baby and Its Mother or To Otherwise Identify Patients in a Hospital or the Like.
Claims use since Jan. 5, 1951.

CLASS 51

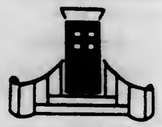
COSMETICS AND TOILET PREPARATIONS

Ser. No. 578,283. Revlon Products Corporation, New York, N. Y. Filed May 5, 1949.

PINK SHERBET

The word "Pink" is disclaimed.
For Nail Enamel.
Claims use since Mar. 29, 1949.

Ser. No. 592,518. Primrose House, Inc., Indianapolis, Ind. Filed Feb. 15, 1950.



For Dry Skin Mixture, Foundation Lotion, Skin Cream, Cleansing Cream, Smoothskin Oil, Deodorant Cream, Finishing Lotion, Foundation Cream, Estrogenic Hormone Cream, Lotion Deodorant, Smoothskin Lotion, Eye Bath, Hand Lotion, Skin Lotion, Cosmic Beauty Mask, Eye Cream, Deep Pore Cleansing Cream, Balsam Astringent, Skin Freshener, Liquid Powder Base, Hand Cream, Lipsticks, Lipstick Refills, and Nail Polish.
Claims use since July 1, 1946.

Ser. No. 606,506. Caswell-Massey Co. Ltd., New York, N. Y. Filed Nov. 17, 1950.

NUMBER 6.

For Cologne Water.
Claims use since 1875.

Ser. No. 606,644. Waite of Hollywood Inc., Los Angeles and West Los Angeles, Calif. Filed Nov. 18, 1950.



For Oral Preparation—Namely, Mouth Wash.
Claims use since Feb. 15, 1948.

Ser. No. 607,799. Consolidated Cosmetics, Chicago, Ill. Filed Dec. 18, 1950.

SCREWY

For Liquid Brilliantine and Solid Brilliantine.
Claims use since Dec. 9, 1950.

Ser. No. 610,689. J. L. Hopkins & Co., Brooklyn, N. Y. Filed Mar. 1, 1951.

FIJIOLINE

Applicant claims ownership of Registration No. 262,116.
For Preparation That Is Used as a Base in the Manufacture of Cosmetic Lotions, Toiletries, and Various Other Cosmetic Preparations.
Claims use since May 3, 1929.

Ser. No. 612,021. Lucky Strike Perfumeries Corporation, New York, N. Y. Filed Mar. 30, 1951.



Applicant claims ownership of Registrations Nos. 515,581 and 528,983.
For Shaving Cream.
Claims use since Nov. 28, 1935.

Ser. No. 613,412. John B. Knight, Sr., doing business as Old 97 Company, Tampa, Fla. Filed May 2, 1951.

King Gasparilla

For Cosmetics—Namely, Vanishing Cream, Cold Cream, Face Powder, Perfume, After-Shave Lotion, and Talc.
Claims use since Dec. 1, 1950.

Ser. No. 614,324. The Wella Corporation, New York, N. Y. Filed May 24, 1951.

KOLESTONE

Applicant claims ownership of Registration No. 374,941.
For Preparation for Reconditioning and Dyeing the Hair, at the Same Time.
Claims use since May 10, 1951.

Ser. No. 614,378. Paul P. Schoenburg, Salinas, Calif. Filed Mar. 12, 1951.



Applicant claims ownership of Registration No. 544,047.
For Hair Dressing.
Claims use since July 29, 1949.

Ser. No. 616,956. Robert P. Gust, doing business under the style name of Anela Co., Chicago, Ill. Filed July 26, 1951.

anela.

For Preparation for Grooming Finger Nails.
Claims use since July 5, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 584,245. Marbel Products Co., Seattle, Wash. Filed Aug. 30, 1949.

Marbel

For Fur Cleaning and Glazing Kit, Comprised of Cleaning Fluid and Elm Bark.
Claims use since Apr. 23, 1949.

Ser. No. 611,978. Radiator Specialty Company, Charlotte, N. C. Filed Mar. 29, 1951. (Sec. 2f.)



Applicant claims ownership of Registrations Nos. 220,740, 286,370, and 408,893.
For Car Wash and Auto Cooling System Cleanser, and for Boiler Cleaning Compounds.
Claims use since Dec. 4, 1933.

Ser. No. 615,637. The Grove Laboratories, Inc., St. Louis, Mo. Filed June 25, 1951. (Sec. 2f as to "Fitch.")



Applicant claims ownership of Registrations Nos. 69,936, 516,740, and others.
For Shampoo for the Hair.
Claims use since 1948 on the mark as shown; and since 1893 on the word "Fitch."

Ser. No. 617,348. S. C. Johnson & Son, Inc., Racine, Wis. Filed Aug. 4, 1951.

Emerel

For Cleaning Composition for Floors and Other Interior Surfaces.
Claims use since May 9, 1951.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 566,150. Intercontinental Hotels Corporation, New York, N. Y. Filed Sept. 30, 1948.



For Hotel Development Services—Namely, Consultation and Advice in the Planning, Designing, Constructing, Equipping, and Decorating of New Hotels.
Claims use since July 5, 1948.

Ser. No. 602,526. Waddle's Drive-In Coffee Shop, Portland, Oreg. Filed Aug. 21, 1950.



The surname "Waddle's" is disclaimed.
For Serving of Food and Beverages in Restaurants and Catering to Gatherings Outside of Restaurants.
Claims use since Feb. 10, 1948.

Ser. No. 609,350. Charles S. Allis, Wichita, Kans. Filed Jan. 29, 1951.



The word "Lunch" is disclaimed. The drawing is lined for green, but color is not claimed.

For Restaurant Services.

Claims use since Dec. 2, 1950.

Ser. No. 614,318. Structural Clay Products Research Foundation, Chicago, Ill. Filed May 24, 1951.



The words "New Frontiers for Brick and Tile" are disclaimed. The lining on the drawing is part of the mark and does not indicate color.

For Research and Development in New Products, Applied Uses of Known Products and Fundamental Research in All Forms of Structural Clay Products Which Is Made Available to Members of the Structural Clay Products Industry.

Claims use since May 7, 1951.

Ser. No. 614,414. Structural Clay Products Research Foundation, Chicago, Ill. Filed May 26, 1951.

NEW FRONTIERS
SCR
FOR BRICK AND TILE

The words "New Frontiers for Brick and Tile" are disclaimed. The lining on the drawing is part of the mark and does not indicate color.

For Research and Development in New Products, Applied Uses of Known Products and Fundamental Research in All Forms of Structural Clay Products Which Is Made Available to Members of the Structural Clay Products Industry.

Claims use since May 7, 1951.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 534,038. Joseph A. Lupco, Wilkes-Barre, Pa. Filed Sept. 10, 1947.

NATIONAL

The words "Bookkeeping & Tax Service" are disclaimed.

For General Accounting and Bookkeeping Relative to Tax Analysis; Tax Analysis of Accounting and Bookkeeping Systems; Revision of and Installation of Accounting and Bookkeeping Systems To Present Accurate Tax Statistics.

Claims use since May 1, 1945.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 609,368. Mason Plastics Co., Inc., Kansas City, Kans. Filed Jan. 29, 1951.

MAPLAC

For Treating Bowling Pins, Tool Handles and Other Articles for the Purpose of Preserving and Protecting the Same by Applying a Plastic Coating Thereto Either After Mechanically Treating the Surfaces of the Articles To Recontour the Same or Without Such Treatment.

Claims use since Jan. 16, 1951.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,677. Lace and Embroidery Medallions Used as Trimming, Narrow Lace Trimmings, Lace Ruffling Used as Trimmings, Passementerie, and Galloons. La Emilia, Industrias Textiles, S. R. L., Buenos Aires, Argentina. Filed Aug. 30, 1946, Serial No. 506,293. Published Nov. 27, 1951. Class 40.

ACT OF 1946, PRINCIPAL REGISTER

557,095. Pyrophoric and Catalytic Lighters for Pipes, Cigars, and Cigarettes. Knapp-Monarch Company (a corporation of Delaware), St. Louis, Mo., assignee of Knapp-Monarch Company (a corporation of Missouri).
Original filed, act of 1905, Nov. 23, 1944; amended to application under act of 1946, Principal Register, Mar. 21, 1950, Serial No. 476,803. Published Jan. 15, 1952. Class 8.

557,096. Prepared Mustards, Prepared Horseradish. The William Edwards Company, Cleveland, Ohio.
Original filed, act of 1905, Dec. 13, 1945; amended to application under act of 1946, Principal Register, Oct. 4, 1950, Serial No. 493,177. Published Jan. 15, 1952. Class 46.

557,097. Drawing Games and Toy Telephones. Precision Specialties, Inc., Los Angeles, Calif., assignee of Precision Specialties.
Original filed, act of 1905, Mar. 19, 1946; amended to application under act of 1946, Principal Register, Apr. 12, 1948, Serial No. 498,543. Published Jan. 1, 1952. Class 22.

557,098. Household Soap, Toilet Soap, Medicated Soap, Automobile Soap, and Cleansers Having a Soap Base for Cleaning Surfaces Such as Tiles, Parkets, Painted Surfaces, Glass, Lavatories, and the Like. Savonneries Lever, Paris, France.
Original filed, act of 1905, Apr. 13, 1946; amended to application under act of 1946, Principal Register, Feb. 2, 1950, Serial No. 500,186. Published Jan. 8, 1952. Class 52.

557,099. Packing House Products—Namely, Luncheon Loaf (Pork, Beef, Dried Milk), Etc. Cleveland Provision Company, Cleveland, Ohio.
Original filed, act of 1905, Aug. 29, 1946; amended to application under act of 1946, Principal Register, Oct. 29, 1951, Serial No. 508,209. Published Jan. 15, 1952. Class 46.

557,100. Olive Oil. Balbo Oil Corporation, Brooklyn, N. Y., assignee of Balbo Oil Co.
Original filed, act of 1905, Sept. 12, 1946; amended to application under act of 1946, Principal Register, Dec. 17, 1947, Serial No. 508,886. Published Jan. 8, 1952. Class 46.

557,101. Alimentary Pastes. C. F. Mueller Company, Jersey City, N. J., by merger with C. F. Mueller Co.
Original filed, act of 1905, Dec. 31, 1946; amended to application under act of 1946, Principal Register, Feb. 9, 1949, Serial No. 515,125. Published Jan. 8, 1952. Class 46.

557,102. Toothpicks. The Forster Manufacturing Company, Inc., Farmington, Maine.
Original filed, act of 1905, Jan. 28, 1947; amended to application under act of 1946, Principal Register, July 30, 1947, Serial No. 516,476. Published Jan. 1, 1952. Class 44.

557,103. Self-Polishing Waxes. Midland Laboratories, Dubuque, Iowa.
Original filed, act of 1905, Jan. 30, 1947; amended to application under act of 1946, Principal Register, Oct. 7, 1949, Serial No. 516,626. Published Jan. 15, 1952. Class 4.

557,104. Mixed Spices Used in Sandwich Mix Preparation. Mexiburger Company, Grand Rapids, Minn.
Original filed, act of 1905, Mar. 24, 1947; amended to application under act of 1946, Principal Register, Nov. 13, 1948, Serial No. 519,480. Published Nov. 13, 1951. Class 46.

557,105. Edible Oil Carrying a Minor Proportion of a Synergistic Anti-Oxidant Composition for Edible Fats and Oils Consisting of a Natural and a Synthetic Anti-Oxidant Agent. The Griffith Laboratories, Inc., Chicago, Ill.
Original filed, act of 1905, Apr. 15, 1947; amended to application under act of 1946, Principal Register, Jan. 9, 1951, Serial No. 520,698. Published Nov. 20, 1951. Class 46.

557,106. Candies and Nut Meats. Shari Candies, Inc., North Mankato, Minn., assignee of Key City Wholesale Supply Company.
Original filed, act of 1905, Apr. 24, 1947; amended to application under act of 1946, Principal Register, Nov. 21, 1949, Serial No. 521,261. Published Apr. 3, 1951. Class 46.

557,107. Potato Chips. Greeley Spud Chip Company, Greeley, Colo., assignor to Spud Chips Inc., Weld County, Colo., a corporation of Colorado.
Original filed, act of 1905, Apr. 29, 1947; amended to application under act of 1946, Principal Register, July 10, 1948, Serial No. 521,517. Published Oct. 9, 1951. Class 46.

557,108. Cluster Raisins Sold in Boxes. Perry H. Chipurnoi, Inc., New York, N. Y.
Original filed, act of 1905, June 4, 1947; amended to application under act of 1946, Principal Register, Dec. 19, 1947, Serial No. 523,514. Published July 17, 1951. Class 46.

557,109. Graham Wafers. The Maryland Biscuit Company, Baltimore, Md.
Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Jan. 18, 1950, Serial No. 525,900. Published Jan. 15, 1952. Class 46.

557,110. Barrelled Pork. Armour and Company, Chicago, Ill.
Filed July 5, 1947, Serial No. 526,915. Published Jan. 22, 1952. Class 46.

557,111. Poultry Feed Comprised Principally of Corn Meal, Etc. Maritime Milling Co. Inc., Buffalo, N. Y.
Filed July 23, 1947, Serial No. 529,280. Published Jan. 8, 1952. Class 46.

557,112. Synthetic Detergents for Washing Dishes, Silverware, and Fabrics. Allied Home Products Corporation, Beloit, Wis.
Filed July 30, 1947, Serial No. 529,947. Published Jan. 8, 1952. Class 52.

557,113. Monthly Magazine. National Guardsman Publishing Company, Washington, D. C., assignor to National Guard Association of the United States, Washington, D. C.
Filed Sept. 4, 1947, Serial No. 533,351. Published Jan. 22, 1952. Class 38.

557,114. Gas Porting Devices of Various Types for the Muzzles of Firearms. Richard M. Cutts, The Plains, Va.
Filed Oct. 3, 1947, Serial No. 536,675. Published Nov. 20, 1951. Class 9.

557,115. Candy. Euclid Candy Company of California, Inc., San Francisco, Calif.
Filed Oct. 9, 1947, Serial No. 537,301. Published Nov. 6, 1951. Class 46.

557,116. Candy. Euclid Candy Company of California, Inc., San Francisco, Calif.
Filed Oct. 9, 1947, Serial No. 537,303. Published Nov. 6, 1951. Class 46.

557,117. Razor Blades. Purple Blade Corporation, New York, N. Y., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware.
Filed Oct. 9, 1947, Serial No. 537,359. Published Dec. 18, 1951. Class 23.

557,118. Infants' and Children's Shirts, Two Piece Undergarments, Union Suits, Sleeping Garments, and Men's Two Piece and Union Suit Undergarments. Brown Durrell Co., Cambridge, Mass., and New York, N. Y.
Filed Oct. 25, 1947, Serial No. 539,022. Published Jan. 15, 1952. Class 39.

557,119. Canned Fruits, Canned Vegetables, Canned Fruit Juices, Etc. F. M. Ball & Company, Oakland, Calif.
Filed Nov. 10, 1947, Serial No. 540,627. Published Jan. 15, 1952. Class 46.

557,120. Fresh Pears. Dennis W. Leary, Walnut Grove, Calif.
Filed Dec. 1, 1947, Serial No. 542,852. Published Dec. 18, 1951. Class 46.

557,121. Men's, Women's and Children's Pajamas, Pajama Coats, Beach Coats, Smock Coats, Utility Coats, and Bath Robes. Kaylon Incorporated, New York, N. Y.
Filed Dec. 3, 1947, Serial No. 543,196. Published July 17, 1951. Class 39.

557,122. Soap. Armour and Company, Chicago, Ill.
Filed Dec. 10, 1947, Serial No. 543,864. Published Jan. 8, 1952. Class 52.

557,123. Automobiles. Wolseley Motors, Limited, Oxford and Cowley, Oxford, England.
Filed Sept. 19, 1950, Serial No. 545,065. Published Jan. 1, 1952. Class 19.

557,124. Rye Flour. Van Dusen Harrington Co., Minneapolis, Minn.
Filed Dec. 29, 1947, Serial No. 545,663. Published Jan. 15, 1952. Class 46.

557,125. Olives, Sandwich Spread, Salad Dressing, Pickles, Mayonnaise, Food Flavoring Extracts, Prepared Mustard, Coffee, Tea, Peanut Butter, Worcestershire Sauce, and Table Syrups. Jewett & Sherman Co., doing business under the name Holsum Products, Milwaukee, Wis.
Filed Jan. 2, 1948, Serial No. 545,993. Published Nov. 13, 1951. Class 46.

557,126. Sausage, Ham, Bacon, Lard, and Cheese. Hygrade Food Products Corporation, New York, N. Y.
Filed Jan. 6, 1948, Serial No. 546,302. Published Jan. 8, 1952. Class 46.

557,127. Dried Vegetables—Namely, Pea Beans, Whole Green Peas, Etc. First National Stores Inc., Somerville, Mass.
Filed Feb. 16, 1948, Serial No. 549,431. Published Jan. 1, 1952. Class 46.

557,128. Candies, Pastries, and Confections—Namely, Hard and Soft Candies Sold in the Bulk and in Packaged Containers, Pies, Cakes and Cookies, Ice Cream, Ices and Sherbets. The O. P. Baur Confectionery Company, Denver, Colo.
Filed Mar. 1, 1948, Serial No. 550,889. Published Jan. 15, 1952. Class 46.

557,129. Coal, Kerosene, Crude Oil, and Gas-Fired Space Heaters; Radiant Space Heaters, Magazine-Type Heaters, Etc. The Cussins and Fearn Company, Columbus, Ohio.
Filed Mar. 13, 1948, Serial No. 551,865. CONCURRENT USE. Published Jan. 8, 1952. Class 34.

557,130. Wheat Flour. Flour Mills of America, Inc., doing business as Valier & Spies Milling Company, Kansas City and St. Louis, Mo.
Filed Mar. 12, 1948, Serial No. 552,554. Published Dec. 11, 1951. Class 46.

557,131. Oil Burners, Oil Burning Stoves, and Parts Thereof. Reliance Products Corporation, Portland, Oreg.
Filed Apr. 12, 1948, Serial No. 554,415. CONCURRENT USE. Published Jan. 8, 1952. Class 34.

557,132. Automatic Draft Regulator of the Type Comprising a Blade Pivoted in, and Substantially Filling, an Opening and Provided With a Counterbalancing Weight Which Can Be Adjusted to and From the Axis of Rotation of the Blade To Vary the Air Pressure Required To Tilt the Blade and Admit Air Through the Opening. Motor Wheel Corporation, Lansing, Mich.
Filed Apr. 22, 1948, Serial No. 555,290. Published Jan. 15, 1952. Class 34.

557,133. Section of a Daily Newspaper Devoted to Current Event Items. Dow Jones & Company, Inc., New York, N. Y., assignor to Dow Jones & Company, Inc., Wilmington, Del., a corporation of Delaware.
Filed Apr. 23, 1948, Serial No. 555,390. Published Jan. 15, 1952. Class 38.

557,134. Wheat Flour. The Colorado Milling & Elevator Co., Denver, Colo., doing business as The Model Flour Mills Company, Greeley, Colo.
Filed May 6, 1948, Serial No. 556,320. Published Nov. 20, 1951. Class 46.

557,135. Fresh Citrus Fruits. Garden Grove Citrus Association, Garden Grove, Calif.
Filed June 18, 1948, Serial No. 559,396. Published Nov. 20, 1951. Class 46.

557,136. Powdered Milk. Cia. Anma. Toddy Venezolana, Caracas, Venezuela.
Filed July 22, 1948, Serial No. 561,883. Published Jan. 8, 1952. Class 46.

557,137. Women's and Junior Misses' Stockings and Anklets. Henry W. Curran, doing business as Marianne Stocking Shop, Huntington, N. Y.
Filed July 26, 1948, Serial No. 562,182. Published Aug. 15, 1950. Class 39.

557,138. Gas Burner Valves for Cooking Ranges. Automatic Range Co., Inc., Brooklyn and New York, N. Y.
Filed Aug. 10, 1948, Serial No. 563,102. Published Jan. 15, 1952. Class 34.

557,139. Cocoa Coated Breakfast Cereal Made From Wheat. Little Crow Milling Co., Inc., Warsaw, Ind.
Filed Aug. 13, 1948, Serial No. 563,350. Published Jan. 22, 1952. Class 46.

557,140. Wheat Flour. Dixie-Portland Flour Co., Memphis, Tenn.
Filed Aug. 17, 1948, Serial No. 563,606. Published Jan. 22, 1952. Class 46.

557,141. Soft Winter Wheat Pastry Flour. Beloit Milling Company, Beloit, Ohio.
Filed Aug. 24, 1948, Serial No. 563,893. Published Jan. 8, 1952. Class 46.

557,142. Candy Containing Vitamins. Marz Laboratories Limited, Windsor, Ontario, Canada.
Filed Aug. 24, 1948, Serial No. 563,945. Published Dec. 4, 1951. Class 46.

557,143. Maple Sugar Candy. T. Noonan Sons Company, Boston, Mass.
Filed Apr. 14, 1948, Serial No. 564,050. Published Jan. 22, 1952. Class 46.

557,144. Wheeled Toy Simulating a Tortoise Which Is Propelled and Steered by a Remote Control Cable. D. Sebel and Company Limited, Erith, Kent, England.
Filed Nov. 12, 1948, Serial No. 568,673. Published Dec. 25, 1951. Class 22.

557,145. Ultra Violet Light Fixture for Destroying Bacteria, and for Deodorizing Air. Roy C. Stove & Company, Chicago, Ill.
Filed Jan. 15, 1949, Serial No. 572,348. Published Jan. 1, 1952. Class 21.

557,146. Ultra Violet Light Fixture for Destroying Bacteria, and for Deodorizing Air. Roy C. Stove & Company, Chicago, Ill.
Filed Jan. 15, 1949, Serial No. 572,349. Published Jan. 1, 1952. Class 21.

557,147. Turkey Tamales, Chicken Tamales, and Cheese Tamales, Sold Both in a Cooked and Frozen State and in a Cooked, Unfrozen Condition; Frozen Chicken Pies, Frozen Turkey Pies, Cooked Unfrozen Potato Salad. Chet's Famous Foods, Eugene, Oreg.
Filed Jan. 22, 1949, Serial No. 572,550. Published Jan. 15, 1952. Class 46.

557,148. Fresh Vegetables and Fresh Melons. J. L. Colyer, Yuma, Ariz.
Filed Jan. 22, 1949, Serial No. 572,551. Published Jan. 15, 1952. Class 46.

557,149. Books. Nelson Doubleday, Inc., Garden City, N. Y.
Filed Jan. 22, 1949, Serial No. 572,557. Published Jan. 1, 1952. Class 38.

557,150. Hand-Held Fishing Reel. The Handicast Company, Cleveland, Ohio.
Filed Feb. 12, 1949, Serial No. 573,770. Published Jan. 22, 1952. Class 22.

557,151. Hydraulic Valve Operating Units Comprising a Pump and Conduits. H. K. Porter Company, Inc., Pittsburgh, Pa.
Filed Feb. 15, 1949, Serial No. 573,893. Published Dec. 25, 1951. Class 23.

557,152. Anti-Slip Preparation for Bowlers' Hands. The Brunswick-Balke-Collender Company, Chicago, Ill.
Filed Feb. 17, 1949, Serial No. 574,014. Published Jan. 15, 1952. Class 6.

557,153. Dental Flasking Plaster Compounded and Developed To Facilitate Deflasking of Acrylic Dentures. Modern Materials Manufacturing Co., St. Louis, Mo.
Filed Feb. 23, 1949, Serial No. 574,370. Published Jan. 1, 1952. Class 44.

557,154. Sky Lights. Super Steel Products Co., Milwaukee, Wis.
Filed Mar. 5, 1949, Serial No. 574,983. Published Dec. 18, 1951. Class 12.

557,155. Lipsticks, Face Powder, Hand Lotion, Brilliantine, and Perfumes. Consolidated Cosmetics, Chicago, Ill.
Filed Mar. 12, 1949, Serial No. 575,331. Published Jan. 1, 1952. Class 51.

557,156. Sulphur in Powder Form. Southern Acid & Sulphur Company, Incorporated, St. Louis, Mo., assignor to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia.
Filed Mar. 26, 1949, Serial No. 576,152. Published Jan. 15, 1952. Class 6.

557,157. Refined Flour Sulphur. Southern Acid & Sulphur Company, Incorporated, St. Louis, Mo., assignor to Mathieson Chemical Corporation, New York, N. Y., a corporation of Virginia.
Filed Mar. 26, 1949, Serial No. 576,157. Published Jan. 8, 1952. Class 6.

557,158. Mono- and Poly-Hydroxyphenols, Etc. Koppers Company, Inc., Pittsburgh, Pa.
Filed Apr. 5, 1949, Serial No. 576,645. Published Jan. 8, 1952. Class 6.

557,159. Machine Belting. Lewis & Tylor Limited, Cardiff, Wales.
Filed Apr. 12, 1949, Serial No. 576,975. Published Jan. 15, 1952. Class 35.

557,160. Hair Dressing. The F. W. Fitch Company, Des Moines, Iowa, assignor to The Grove Laboratories, Inc., St. Louis, Mo., a corporation of Delaware.
Filed Apr. 15, 1949, Serial No. 577,179. Published Jan. 8, 1952. Class 51.

557,161. Butter, Milk Powder, Cheddar Cheese. Maple Island Farm, Inc., Stillwater, Minn., now by change of name Maple Island, Inc.
Filed Apr. 19, 1949, Serial No. 577,396. Published Dec. 11, 1951. Class 46.

557,162. Stocking Protecting Spats. M. Z. Eves and Company, New York, N. Y.
Filed Apr. 22, 1949, Serial No. 577,529. Published June 6, 1950. Class 39.

557,163. Wheat Flour and Poultry and Stock Feeds Composed Principally of Grains. Kerr Gifford & Co., Inc., Portland, Oreg.
Filed Apr. 30, 1949, Serial No. 578,028. Published Nov. 20, 1951. Class 46.

557,164. Corrugated Cartons, Paper Cups, Plates, and Merchandising Envelopes. Charles E. King, doing business as Charles E. King & Co., Chicago, Ill.
Filed May 11, 1949, Serial No. 578,599. Published May 8, 1951. Class 2.

557,165. Ice Cream Cones. Maryland Baking Company, Inc., Baltimore, Md.
Filed May 11, 1949, Serial No. 578,608. Published Jan. 15, 1952. Class 46.

557,166. Pyrophoric Lighters for Smokers. Marcel Quercia, Paris, France.
Filed May 12, 1949, Serial No. 578,706. Published Jan. 8, 1952. Class 8.

557,167. Impregnated Graphite Plate Heaters and Tube and Shell Heat Exchangers. General Ceramics & Steatite Corp., Keasbey, N. J.
Filed May 13, 1949, Serial No. 578,787. Published Jan. 15, 1952. Class 34.

557,168. Cosmetics—Namely, Finger Nail Polish, Rouge, Etc. Stanley M. Sargeant, Highland Mills, N. Y., assignor to Sargeant Acnoid Pharmaceutical Co., Inc., Highland Mills, N. Y., a corporation of New York.
Filed May 20, 1949, Serial No. 579,218. Published Sept. 19, 1950. Class 51.

557,169. Cleansing Face Cream. Margaret Whitley Crewett, Philadelphia, Pa.
Filed May 27, 1949, Serial No. 579,383. Published Jan. 8, 1952. Class 51.

557,170. Hair Dressing. Marcia Pruitt Baumann & Son, Los Angeles, Calif.
Filed June 8, 1949, Serial No. 580,118. Published Jan. 1, 1952. Class 51.

557,171. Spark Plugs. American Electric Products Corp., New York, N. Y.
Filed June 22, 1949, Serial No. 580,866. Published Jan. 1, 1952. Class 21.

557,172. Chocolates and Hard Candy. Leader Novelty Candy Co., Inc., Brooklyn, N. Y.
Filed June 24, 1949, Serial No. 580,995. Published Jan. 8, 1952. Class 46.

557,173. Automotive Brake Cylinder Kits—Namely, Master Cylinder Kits, Etc. C. E. Niehoff & Co., Chicago, Ill.
Filed July 14, 1949, Serial No. 581,971. Published Jan. 1, 1952. Class 19.

557,174. Electric Lamps (Including Shades Therefor), Lighting Fixtures, Chandeliers, Wall and Ceiling Lights. W. & J. Sloane, New York, N. Y.
Filed July 15, 1949, Serial No. 582,058. Published Jan. 22, 1952. Class 21.

557,173. Chemical Preparation for Dissolving Plastic Laminations. Gla-Zol Corporation, Dallas, Tex.
Filed July 21, 1949, Serial No. 582,286. Published Jan. 15, 1952. Class 6.

557,176. Electric Projection Lamps, Electric Rectifiers, and Parts Thereof. The Strong Electric Corporation, Toledo, Ohio.
Filed Aug. 16, 1949, Serial No. 583,560. Published Jan. 22, 1952. Class 21.

557,177. Pest Control Compositions—Namely, Fungicides, Etc. Nuodex Products Co., Inc., Elizabeth, N. J.
Filed Sept. 9, 1949, Serial No. 584,635. Published Nov. 27, 1951. Class 6.

557,178. Controlling Devices, Employing Electric Circuit Controlling Switches, Etc. The Mercoid Corporation, Chicago, Ill.
Filed Sept. 23, 1949, Serial No. 585,243. Published Jan. 22, 1952. Class 21.

557,179. Men's Suits and Topcoats. Loevenhart & Company, Inc., Louisville, Ky.
Filed Sept. 26, 1949, Serial No. 585,336. Published Aug. 29, 1950. Class 39.

557,180. Fresh Deciduous Fruits. California Fruit Exchange, Sacramento, Calif.
Filed Oct. 3, 1949, Serial No. 585,699. Published Jan. 1, 1952. Class 46.

557,181. Beautifier Vaporizer for Treatment of the Skin. Nancy D'Alesandro, Baltimore, Md.
Filed Oct. 21, 1949, Serial No. 586,627. Published Jan. 1, 1952. Class 44.

557,182. Empty Ice Cream Cones. S & S Cone Corporation, New York, N. Y.
Filed Nov. 1, 1949, Serial No. 587,134. Published Jan. 8, 1952. Class 46.

557,183. Pharmaceutical Preparation Having Hemostatic Properties. International Hormones, Inc., Brooklyn, N. Y.
Filed Nov. 3, 1949, Serial No. 587,264. Published Nov. 20, 1951. Class 18.

557,184. Synthetic Detergent Compound for General Washing Purposes for Use in the Home, on the Farm, in Industry, and in Public Service Institutions, Such as Schools, Hospitals, and Restaurants. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Nov. 5, 1949, Serial No. 587,413. Published Jan. 8, 1952. Class 52.

557,185. Hat Bodies. Accurate Millinery Co., New York, N. Y.
Filed Nov. 8, 1949, Serial No. 587,453. Published Jan. 2, 1951. Class 39.

557,186. French Fried Potatoes. Tomic Taters, Harlingen, Tex.
Filed Nov. 8, 1949, Serial No. 587,511. Published Jan. 15, 1952. Class 46.

557,187. Oleomargarine. Osceola Foods, Inc., Osceola, Ark.
Filed Nov. 14, 1949, Serial No. 587,742. Published Nov. 13, 1951. Class 46.

557,188. Chemical To Remove Excess Soot From Furnaces, Boiler Tubes, and Chimneys. The Chemical Testing Institute of America, Inc., Long Island City, N. Y., now by change of name Chemical Testing Corporation, a corporation of New York.
Filed Nov. 19, 1949, Serial No. 588,080. Published Jan. 15, 1952. Class 52.

557,189. Window Cleaner, Wax for Cleaning Windows, Mirrors, Glassware, Silverware, Tile, Windshields, Porcelain and Chromium, French Dry Cleaner, Soap Flakes, and Granulated Soap. American Stores Company, Philadelphia, Pa.
Filed Dec. 1, 1949, Serial No. 588,623. Published Dec. 25, 1951. Class 52.

557,190. Hand Cleaner. The Muench Laboratories, St. Louis, Mo.
Filed Nov. 16, 1949, Serial No. 588,836. Published Dec. 25, 1951. Class 52.

557,191. Vocabulary Charts Used in Connection With Children's Readers. William F. Bealer, doing business as My Word Wheel Company, Belvidere, Ill.
Filed Dec. 7, 1949, Serial No. 588,930. Published Jan. 1, 1952. Class 38.

557,192. Synthetic Resins in the Form of Powders, Granules, Emulsions, Solutions, and Other Forms for Use, Not Including the Preparation and Treatment of Leather, in the Industrial Arts and Further Manufacture. Monsanto Chemical Company, St. Louis, Mo.
Filed Dec. 8, 1949, Serial No. 589,032. Published Jan. 8, 1952. Class 6.

557,193. Oleomargarine. Armour and Company, Chicago, Ill.
Filed Dec. 13, 1949, Serial No. 589,240. Published Jan. 15, 1952. Class 46.

557,194. Livestock Feed. Traders Oil Mill Company, Fort Worth, Tex.
Filed Dec. 13, 1949, Serial No. 589,280. Published Dec. 25, 1951. Class 46.

557,195. Pancake and Waffle Batter. Chetwin S. Cooke, Haddonfield, N. J.
Filed Dec. 14, 1949, Serial No. 589,305. Published Jan. 15, 1952. Class 46.

557,196. Men's Outer Shirts. American Bleached Goods Company, Inc., New York, N. Y.
Filed Dec. 21, 1949, Serial No. 589,695. Published Dec. 11, 1951. Class 39.

557,197. Liquid Wax Preparation for Cleaning, Polishing and Protecting Linoleum and Floors of All Kinds. Boyle-Midway Inc., New York, N. Y.
Filed Dec. 21, 1949, Serial No. 589,707. Published Jan. 15, 1952. Class 4.

557,198. Baffle-Equipped Heat Equalizing Apparatus for Use in Range Cooking Wells To Effect Baking Therein. Chambers Corporation, Shelbyville, Ind.
Filed Dec. 22, 1949, Serial No. 589,767. Published Jan. 15, 1952. Class 34.

557,199. Raw, Whole Yams. Dupuis Produce Company, Breaux Bridge, La.
Filed Dec. 27, 1949, Serial No. 589,960. Published Jan. 8, 1952. Class 46.

557,200. Prepared Advertising, Sold as Such. Mercury Advertising Agency, Inc., Los Angeles, Calif.
Filed Jan. 10, 1950, Serial No. 590,610. Published Jan. 8, 1952. Class 38.

557,201. Candy. Norris Inc., Atlanta, Ga.
Filed Jan. 13, 1950, Serial No. 590,826. Published Nov. 13, 1951. Class 46.

557,202. Underwear Pyjamas, Dressing Gowns, Shirts (T-Shirts and Sweatshirts), and Sweaters for Children and Women, Buster Suits (Children's Shirt and Pants Combinations), Infants' Sleeping Bags. Pasolds Limited, Langley, England.
Filed Jan. 23, 1950, Serial No. 591,315. Published Jan. 15, 1952. Class 39.

557,203. Potato Chips, Cheese Flavored Salted Popcorn, Etc. Hesmer, Inc., Evansville, Ind.
Filed Jan. 27, 1950, Serial No. 591,372. Published Jan. 15, 1952. Class 46.

557,204. Wetting Agent. Stauffer Chemical Company, San Francisco, Calif.
Filed Jan. 31, 1950, Serial No. 591,754. Published Jan. 15, 1952. Class 6.

557,205. Paper Toys in the Nature of a Plurality of Bound Sheets and Folded Sheets Which When Opened Present a Three-Dimensional Picture Effect. Phillips Publishers, Inc., Newton, Mass.
Filed Feb. 1, 1950, Serial No. 591,798. Published Dec. 11, 1951. Class 22.

557,206. Laundry Equipment—Namely, Household Portable Clothes Washing Machines. Speed-Flex, Inc., Webster City, Iowa.
Filed Feb. 1, 1950, Serial No. 591,809. Published Jan. 15, 1952. Class 24.

557,207. Fresh Oysters. The Atlantic Packing Co., Baltimore, Md.
Filed Feb. 2, 1950, Serial No. 591,829. Published Jan. 15, 1952. Class 46.

557,208. All Purpose Cleaner. Service Industries (A Trust), Philadelphia, Pa.
Filed Feb. 8, 1950, Serial No. 592,166. Published Dec. 25, 1951. Class 52.

557,209. Carbon Black. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Feb. 11, 1950, Serial No. 592,302. Published Jan. 15, 1952. Class 6.

557,210. Flight Conveyors. Hapman Conveyors, Inc., Detroit, Mich.
Filed Feb. 14, 1950, Serial No. 592,425. Published Nov. 6, 1951. Class 23.

557,211. Hair Creams Used To Impart Waves to the Hair. Rilling Company, New York, N. Y.
Filed Mar. 4, 1950, Serial No. 593,442. Published Jan. 1, 1952. Class 51.

557,212. Preparation Used for Cleaning and Polishing Bathtubs, Wash Basins, Toilet Bowls, Floors, Walls, and Tile, Marble, Porcelain, Enamel, and Metallic Surfaces. H. B. Meyer & Son, Dallas, Tex.
Filed Mar. 6, 1950, Serial No. 593,493. Published Jan. 1, 1952. Class 52.

557,213. Published Analyses Relating to Newspaper Advertising in the Form of Charts and Statistical Reports. Small Town & Farm Markets Institute, Incorporated, New Canaan, Conn.
Filed Mar. 9, 1950, Serial No. 593,691. Published Jan. 15, 1952. Class 38.

557,214. Parlor Game Played With Board and Detachable Pieces. The Charleston Manufacturing Company, Independence, Kans.
Filed Mar. 11, 1950, Serial No. 593,785. Published Dec. 25, 1951. Class 22.

557,215. Canned Fish. Mondial Company, Inc., New York, N. Y.
Filed Mar. 17, 1950, Serial No. 594,136. Published Jan. 15, 1952. Class 46.

557,216. Teething Ring Appliances for Infants. Marjorie Egerton Storey and William Henry Storey, Cambridge, England.
Filed Mar. 16, 1950, Serial No. 594,241. Published Jan. 1, 1952. Class 44.

557,217. Game, Consisting of Playing Board Whereon a Wheel Is Spun by the Manipulation of Various Levers and the Turning of a Dial. William R. Hall, Herbert C. Berning, and Harvey R. Collins, Angola, Ind.
Filed Mar. 24, 1950, Serial No. 594,539. Published Jan. 15, 1952. Class 22.

557,218. Mechanical Equipment in the Nature of a Lift for Raising, Lowering, and Turning Incapacitated People. Invalift, Inc., Seattle, Wash.
Filed Mar. 25, 1950, Serial No. 594,645. Published Dec. 25, 1951. Class 44.

557,219. Washing Powder. Hylo Company, Inc., Houston, Tex.
Filed Mar. 27, 1950, Serial No. 594,716. Published Dec. 25, 1951. Class 52.

557,220. Hair Nets. G. H. S. Corporation, New York, N. Y.
Filed Apr. 4, 1950, Serial No. 595,207. Published Jan. 15, 1952. Class 39.

557,221. Single Preparation in the Form of a White Powder Put Up in Colored Capsules, But Not Including White or Colorless Capsules, and Used as a Concentrated Germicide, Antiseptic, and Deodorant. American Drug & Chemical Co., Minneapolis, Minn.
Filed Apr. 17, 1950, Serial No. 595,818. Published Nov. 27, 1951. Class 18.

557,222. Ear Cleaning Wire Pick. Joan M. Hall, New York, N. Y.
Filed Apr. 17, 1950, Serial No. 595,837. Published Dec. 25, 1951. Class 44.

557,223. Automotive Equipment—Namely, Reconditioned Fuel Pumps, Carburetors, Crankshafts, Cylinder Heads, and Combustion Engines. Koochook Co., Inc., St. Louis, Mo.
Filed Apr. 17, 1950, Serial No. 595,841. Published Jan. 1, 1952. Class 23.

557,224. Liquid Cleaner and Polish for Metals, Plastics, Glass, and Finished Painted, Lacquered, or Enameled Surfaces. Valgerta M. Rollit, doing business as Rollit & Haight Plastic Co., Santa Cruz, Calif.
Filed Apr. 20, 1950, Serial No. 596,050. Published Jan. 15, 1952. Class 4.

557,225. Electrical Induction Metal Heating and Heat-Treating Apparatus and Machines and Parts Thereof. The Ohio Crankshaft Company, Cleveland, Ohio.
Filed Apr. 27, 1950, Serial No. 596,434. Published Jan. 1, 1952. Class 21.

557,226. Nutritional Preparation Containing Amino Acids and Vitamins. Paul Thompson Associates, Stamford, Conn., assignor to Marvin R. Thompson, Inc., Stamford, Conn.
Filed Apr. 27, 1950, Serial No. 596,459. Published Nov. 27, 1951. Class 18.

557,227. Periodicals. American Camping Association, Inc., Chicago, Ill.
Filed Apr. 28, 1950, Serial No. 596,470. Published Jan. 1, 1952. Class 38.

557,228. Potassium Nitrate (Saltpetre), Sodium Nitrate, Borax, Boric Acid, Potassium Chloride, Sodium Nitrite, Welding Fluxes, Flame-Proofing Compounds, Laundry Sours. Croton Chemical Corporation, New York, N. Y.
Filed Apr. 29, 1950, Serial No. 596,563. Published Jan. 15, 1952. Class 6.

557,229. Canned Vegetables—Namely, Corn, Beans With Pork, Kidney Beans, Tomatoes, Tomato Puree, Spinach; Canned Fruits—Namely, Apple Sauce, Pears. Parkview Markets, Inc., Cincinnati, Ohio.
Filed Apr. 5, 1950, Serial No. 597,035. Published Jan. 8, 1952. Class 46.

557,230. Photographic Prints. Harold B. Robinson, doing business under the name and style of Neo-Photo, New York, N. Y.
Filed May 11, 1950, Serial No. 597,296. Published Jan. 15, 1952. Class 38.

557,231. Tea. H. S. Fromme & Co., Inc., New York, N. Y.
Filed May 12, 1950, Serial No. 597,332. Published Jan. 15, 1952. Class 46.

557,232. Dolls of Waterproof Material Which Are Also Adapted To Be Used as a Bottle Holder. Sirac, Inc., Brooklyn, N. Y., assignor to Caris-Art Inc., Brooklyn, N. Y., a corporation of New York.
Filed May 17, 1950, Serial No. 597,631. Published Dec. 25, 1951. Class 22.

557,233. Antibiotic Product. Lepetit S. A., Milan, Italy.
Filed May 22, 1950, Serial No. 597,887. Published Nov. 27, 1951. Class 18.

557,234. Antibiotic Product. Lepetit S. A., Milan, Italy.
Filed May 22, 1950, Serial No. 597,888. Published Nov. 27, 1951. Class 18.

557,235. Fishing Tackle—Namely, Casting Rods, Fly Rods, Spinning Rods, Trolling Rods, Ice-Fishing Rods, Landing Nets, Trout Nets, Angler's Net Fish Sacks, Artificial Fish Lures, Tackle Boxes, and Sinkers. Stream-Eze, Inc., South Bend, Ind.
Filed June 1, 1950, Serial No. 598,439. Published Jan. 22, 1952. Class 22.

557,236. Merry-Go-Round for Children. Milton G. McKee, Youngstown, Ohio.
Filed June 10, 1950, Serial No. 598,919. Published Jan. 15, 1952. Class 22.

557,237. Piston Rings. Wilkening Manufacturing Company, Philadelphia, Pa.
Filed June 13, 1950, Serial No. 599,043. Published Jan. 8, 1952. Class 35.

557,238. Smoking Pipes. Thalson Company, San Francisco, Calif.
Filed June 16, 1950, Serial No. 599,287. Published Jan. 1, 1952. Class 8.

557,239. Smoking Pipes. Thalson Company, San Francisco, Calif.
Filed June 16, 1950, Serial No. 599,288. Published Jan. 1, 1952. Class 8.

557,240. Lamp Shades. Rembrandt Lamp Corporation, Chicago, Ill.
Filed June 22, 1950, Serial No. 599,588. Published Jan. 8, 1952. Class 21.

557,241. Detergent for Washing Dishes, Glassware, Walls, Floors, and Dairy Utensils, and for General Cleaning Purposes. Allied Chemical & Dye Corporation, New York, N. Y.
Filed June 24, 1950, Serial No. 599,687. Published Dec. 25, 1951. Class 52.

557,242. Dry Cell Electrical Batteries. P. R. Mallory & Co., Inc., Indianapolis, Ind.
Filed June 28, 1950, Serial No. 599,889. Published Jan. 1, 1952. Class 21.

557,243. Fresh Fruits, Dried Deciduous Fruits, Frozen Cooked Deciduous Fruits, Hydrated Deciduous Fruit, and Olives. James Mills Orchards Company, Hamilton City, Calif.
Filed June 30, 1950, Serial No. 600,065. Published Jan. 15, 1952. Class 46.

557,244. Soap. Botany Mills, Inc., Passaic, N. J.
Filed July 1, 1950, Serial No. 600,116. Published Jan. 15, 1952. Class 52.

557,245. Fertilizers. Gro-Ur-Own Chemical Gardens, Inc., Seattle, Wash.
Filed July 1, 1950, Serial No. 600,130. Published Jan. 15, 1952. Class 10.

557,246. Plant Soil. Hyper-Humus Company, Bryn Mawr, Pa.
Filed July 3, 1950, Serial No. 600,169. Published Jan. 8, 1952. Class 10.

557,247. Men's Shirts and Women's Blouses. Ernest J. Michel, New York, N. Y.
Filed July 6, 1950, Serial No. 600,301. Published Jan. 15, 1952. Class 39.

557,248. Washing Compound Producing Suds Sold in Powdered Form. Nocon Products Corporation, New York, N. Y.
Filed July 6, 1950, Serial No. 600,306. Published Dec. 25, 1951. Class 52.

557,249. Ingredient To Be Introduced in Cement Mixes To Expand the Same Into Porous Concrete. The Aerocrete Corporation of America, Rochelle Park, N. J.
Filed July 14, 1950, Serial No. 600,641. Published Dec. 18, 1951. Class 12.

557,250. Dressed Young Chickens, Dressed Fowl, and Dressed Young Tom Turkeys. The Rath Packing Company, Waterloo, Iowa.
Filed July 20, 1950, Serial No. 600,972. Published Jan. 15, 1952. Class 46.

557,251. Bearing Blue for Showing High Spots and Scratches in Bearings and for Determining the Accuracy of Ground or Machined Surfaces. Van Cleef Bros., Inc., Chicago, Ill.
Filed July 20, 1950, Serial No. 601,001. Published Jan. 15, 1952. Class 6.

557,252. Coin-Controlled Amusement Game Apparatus in Which a Ball Is Projected Upon an Inclined Playing Surface. Exhibit Supply Company, Chicago, Ill.
Filed Aug. 8, 1950, Serial No. 601,892. Published Dec. 25, 1951. Class 22.

557,253. Natural or Synthetic Aromatic Chemicals and Essential Oils Used as Ingredients for Detergents and Soaps. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Aug. 9, 1950, Serial No. 601,980. Published Jan. 15, 1952. Class 52.

557,254. Whole Milk, Skim Milk, Buttermilk, Chocolate Flavored Milk, Eggnog, Malted Milk, Pressurized Cream Topping, Cream, Sour Cream, Evaporated Milk Infant Food, Cheese, Ice Cream, Ice Cream Novelties, Ices and Sherbets, Butter, and Eggs. National Dairy Products Corporation, New York, N. Y.
Filed Aug. 9, 1950, Serial No. 601,995. Published Dec. 11, 1951. Class 46.

557,255. Water-Less Hand-Cleaning Paste. Kalene Corporation, Minneapolis, Minn.
Filed Aug. 12, 1950, Serial No. 602,122. Published Jan. 1, 1952. Class 52.

557,256. Bibles. National Publishing Company, Philadelphia, Pa.
Filed Aug. 15, 1950, Serial No. 602,210. Published Jan. 1, 1952. Class 38.

557,257. Non-Crystallisable Corn Sugar Syrup for Use in the Manufacture of Caramel Color. Clinton Foods Inc., Clinton, Iowa.
Filed Aug. 19, 1950, Serial No. 602,436. Published Jan. 8, 1952. Class 46.

557,258. Granular Abrasive Materials To Be Projected Against the Surfaces of Various Objects for Cleaning, Finishing, Cutting, and Carving Same. Pangborn Corporation, Hagerstown, Md.
Filed Aug. 19, 1950, Serial No. 602,468. Published Jan. 8, 1952. Class 4.

557,259. Ornamental Trim, Replacement Ornamental Crank Knobs, Windshield Wiper Control Knobs, Armrest Covers, and Doorsill Moulding Covers, All for Automotive Vehicles. National Autocraft Manufacturing Co., Orlando, Fla.
Filed Aug. 24, 1950, Serial No. 602,706. Published Jan. 1, 1952. Class 19.

557,260. Fertilizers and Ingredients of Fertilizers—Namely, Calcium Carbonate and Compositions Containing Available Nitrogen. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Aug. 29, 1950, Serial No. 602,874. Published Dec. 25, 1951. Class 10.

557,261. Carcass Beef; Carcass Veal; Smoked Beef Loaf; Etc. American Stores Company, Philadelphia, Pa.
Filed Sept. 7, 1950, Serial No. 603,219. Published Dec. 25, 1951. Class 46.

557,262. Chemically Treated Paper Sheets Used for Cleaning and Polishing Various Surfaces. The Munising Paper Company, Chicago, Ill.
Filed Sept. 7, 1950, Serial No. 603,246. Published Jan. 15, 1952. Class 4.

557,263. Greeting Cards and Printed Greeting Folders. Norcross, Inc., New York, N. Y.
Filed Sept. 7, 1950, Serial No. 603,247. Published Jan. 1, 1952. Class 38.

557,264. Pictorial Advertising Signs Composed of Plastic Material and Printed in Color or Black and White. William Mellish Harris, New York, N. Y.
Filed Sept. 9, 1950, Serial No. 603,367. Published Jan. 1, 1952. Class 38.

557,265. Acetylene Carbon Black. Shawinigan Products Corporation, New York, N. Y.
Filed Sept. 12, 1950, Serial No. 603,464. Published Jan. 15, 1952. Class 6.

557,266. Hand Supported Electric Device for Cutting Grass, Weeds, Shrubs, Flowers, and Foliage. John McMillan, Elko, Nev.
Filed Sept. 13, 1950, Serial No. 603,489. Published Jan. 1, 1952. Class 21.

557,267. Electrical Insulating Materials and Supplies, Etc. Mica Insulator Company, Schenectady, N. Y.
Filed Sept. 14, 1950, Serial No. 603,535. Published Dec. 25, 1951. Class 21.

557,268. Electrical Insulating Materials and Supplies, Etc. Mica Insulator Company, Schenectady, N. Y.
Filed Sept. 14, 1950, Serial No. 603,536. Published Dec. 25, 1951. Class 21.

557,269. Weekly Periodical. The Prairie Farmer Publishing Company, Chicago, Ill.
Filed Sept. 14, 1950, Serial No. 603,544. Published Jan. 22, 1952. Class 38.

557,270. Shampoo for the Hair. The Grove Laboratories, Inc., St. Louis, Mo.
Filed Sept. 15, 1950, Serial No. 603,583. Published Dec. 25, 1951. Class 52.

557,271. Fresh Mushrooms. Butler County Mushroom Farm, Inc., West Winfield, Pa.
Filed Sept. 13, 1950, Serial No. 603,658. Published Jan. 15, 1952. Class 46.

557,272. Woolen and Part-Woolen Yarns, Dyed, Undyed, and Bleached. N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands.
Filed Sept. 14, 1950, Serial No. 603,975. Published Jan. 15, 1952. Class 43.

557,273. Woolen Yarns. N. V. Nederlandsche Wolspinnerij, Leiden, Netherlands.
Filed Sept. 14, 1950, Serial No. 603,977. Published Jan. 15, 1952. Class 43.

557,274. Igniters Emitting Sparks Which Ignite Gas Such as the Gas Which Comes From a Kitchen Stove. Oesterreichische Knopf und Metallwarenfabrik J. Meister & Co., Vienna, Austria.
Filed Sept. 26, 1950, Serial No. 604,021. Published Jan. 8, 1952. Class 34.

557,275. Rice. L. A. Black, Rice Miller, De Witt, Ark.
Filed Sept. 27, 1950, Serial No. 604,065. Published Jan. 15, 1952. Class 46.

557,276. Paper Bags. Gulf States Paper Corporation, Tuscaloosa, Ala.
Filed Sept. 27, 1950, Serial No. 604,094. Published May 8, 1951. Class 2.

557,277. Wheat Flour. Enrique A. Rincon, doing business under the firm name and style of E. A. Rincon & Co., Fresno, Calif.
Filed Sept. 19, 1950, Serial No. 604,116. Published Jan. 15, 1952. Class 46.

557,278. Ham, Pork Shoulder Picnic, Pork Shoulder Butt, Etc. The Rath Packing Company, Waterloo, Iowa.
Filed Sept. 29, 1950, Serial No. 604,228. Published Jan. 15, 1952. Class 46.

557,279. Liquid Dry Cleaner for Spotting Delicate Fabrics. George V. Willoughby, doing business under the assumed name of Century Products Co., Seattle, Wash.
Filed Sept. 30, 1950, Serial No. 604,285. Published Jan. 1, 1952. Class 52.

557,280. Publication Published Semi-Annually. Phi Alpha Theta, Allentown, Pa.
Filed Oct. 3, 1950, Serial No. 604,383. Published Jan. 8, 1952. Class 38.

557,281. Canned Corned Beef, Canned Corned Beef Hash, Canned Roast Beef, Canned Brisket Beef, and Canned Tongues. Corporacion Argentina de Productores de Carnes, New York, N. Y.
Filed Aug. 12, 1950, Serial No. 604,409. Published Jan. 15, 1952. Class 46.

557,282. Canned Corned Beef, Canned Corned Beef Hash, Canned Roast Beef, Canned Brisket Beef, and Canned Tongues. Corporacion Argentina de Productores de Carnes, New York, N. Y.
Filed Aug. 12, 1950, Serial No. 604,410. Published Jan. 15, 1952. Class 46.

557,283. Tool Holders for Rigidly Holding Tool-Bits for Use in Lathes, Shapers, Planers, and the Like. American Die & Tool Co., Inc., Reading, Pa., assignor to Quentin C. Sternbergh and Solon A. Sternbergh, copartners, trading and doing business as West Shore Machine Company.
Filed Oct. 4, 1950, Serial No. 604,414. Published Nov. 6, 1951. Class 23.

557,284. Series of Children's Educational Books and Pamphlets. Scott, Foresman and Company, Chicago, Ill.
Filed Oct. 6, 1950, Serial No. 604,551. Published Jan. 1, 1952. Class 38.

557,285. Holster and Gun Set as a Toy Item. David Guss & Company, Philadelphia, Pa.
Filed Oct. 9, 1950, Serial No. 604,633. Published Jan. 1, 1952. Class 22.

557,286. Fresh, Frozen, Canned, and Processed Oysters and Oyster Stew, Clams, Fish, Crab, and Shrimp. Haines Oyster Company, Seattle, Wash.
Filed Oct. 9, 1950, Serial No. 604,634. Published Dec. 11, 1951. Class 46.

557,287. Fresh Potatoes. Pacific Gamble Robinson Company, doing business as Pacific Fruit & Produce Co., Seattle, Wash.
Filed Oct. 10, 1950, Serial No. 604,703. Published Jan. 15, 1952. Class 46.

557,288. Publication Issued Quarterly. McGraw-Hill Book Company, Inc., New York, N. Y.
Filed Oct. 11, 1950, Serial No. 604,731. Published Jan. 22, 1952. Class 38.

557,289. Periodicals. Talon, Inc., Meadville, Pa.
Filed Oct. 11, 1950, Serial No. 604,751. Published Jan. 1, 1952. Class 38.

557,290. Magazine, Published at Least Four Times a Year. The International Legal Fraternity of Phi Delta Phi, Boulder, Colo.
Filed Oct. 23, 1950, Serial No. 605,307. Published Jan. 15, 1952. Class 38.

557,291. Home Cold Wave Refill Kit Containing Self-Neutralising Lotion for Hair Waving Purposes. Lee Pharmacal Co., Beverly Hills, Calif., assignor to Lever Brothers Company, New York, N. Y., a corporation of Maine.
Filed Oct. 23, 1950, Serial No. 605,312. Published Jan. 1, 1952. Class 51.

557,292. Accessories for Electric Vacuum Cleaners, Specifically, Sudsmakers, Germicidal Solution Evaporators, and Aerators. The Lee Products Co., Inc., Cleveland, Ohio.
Filed Oct. 25, 1950, Serial No. 605,430. Published Jan. 1, 1952. Class 21.

557,293. Toilet Soap. Manhattan Soap Company, Inc., New York, N. Y.
Filed Oct. 30, 1950, Serial No. 605,596. Published Dec. 25, 1951. Class 52.

557,294. Household Air Conditioning Units. Charles A. Navien, New York, N. Y.
Filed Oct. 31, 1950, Serial No. 605,672. Published Jan. 8, 1952. Class 34.

557,295. Telephonic and Telegraphic Apparatus and Parts Thereof, Electronic Sound Recording and Reproducing Apparatus, Microphones, and Electronic Sound Amplifiers. Canadian Benaudi Company Limited, Ottawa, Ontario, Canada, assignor to Erich Hausdorf, Ottawa, Ontario, Canada.
Filed Oct. 30, 1950, Serial No. 605,702. Published Jan. 1, 1952. Class 21.

557,296. Woodworking Machinery and Tools Therefor—Namely, Band Saws, Surfacers, Lathes, Mortisers, Sanders, Shapers, Jointers, Matchers, Moulders, Ripsaws, Resaws, Cutters, Knives, and Bits. Yates-American Machine Company, Beloit, Wis.
Filed Nov. 1, 1950, Serial No. 605,773. Published Dec. 18, 1951. Class 23.

557,297. Shielding Enclosures—Namely, Prefabricated Metallic Screen Panels for Protection Against Sources of Electrical Interference. Ace Engineering & Machine Co., Inc., Philadelphia, Pa.
Filed Nov. 2, 1950, Serial No. 605,776. Published Jan. 8, 1952. Class 21.

557,298. House Organ Published From Time to Time. Douglas Fir Plywood Association, Tacoma, Wash.
Filed Nov. 3, 1950, Serial No. 605,848. Published Jan. 8, 1952. Class 38.

557,299. Toy Holsters. Delira Corporation, Studio City, Calif.
Filed Nov. 6, 1950, Serial No. 605,944. Published Jan. 15, 1952. Class 22.

557,300. Television and Radio Antenna and Aerials and Replacement Parts Therefor. Sol Epstein, doing business as Televex Company, Los Angeles, Calif.
Filed Nov. 9, 1950, Serial No. 606,138. Published Jan. 8, 1952. Class 21.

557,301. Canned Salmon. Independent Salmon Canneries, Inc., Seattle, Wash.
Filed Nov. 10, 1950, Serial No. 606,224. Published Jan. 8, 1952. Class 46.

557,302. Electrical Circuit Control Elements—Namely, Resistors. Ohmite Manufacturing Company, Chicago, Ill.
Filed Nov. 10, 1950, Serial No. 606,234. Published Jan. 22, 1952. Class 21.

557,303. Rack for Supporting Paper Garment Bags, Said Racks Being Part of a Garment Bagging Apparatus for Use in Laundries and Drycleaning Establishments. G. H. Bishop Company, Chicago, Ill.
Filed Nov. 13, 1950, Serial No. 606,258. Published Jan. 15, 1952. Class 24.

557,304. Women's Hosiery. Gotham Hosiery Company, Inc., New York, N. Y.
Filed Nov. 13, 1950, Serial No. 606,292. Published Jan. 8, 1952. Class 39.

557,305. Periodical Devoted to the Interests of Young People and Children. Youth Associates Company, Minneapolis, Minn.
Filed Nov. 14, 1950, Serial No. 606,402. Published Jan. 22, 1952. Class 38.

557,306. Prepared Advertising in the Form of Trade Pamphlets and Circulars Sold as Such. Automotive Advertisers Council, New Castle, Ind.
Filed Nov. 15, 1950, Serial No. 606,409. Published Oct. 2, 1951. Class 38.

557,307. Indoor Antennas for Television Receivers. Hi-Lo TV Antenna Corp., Chicago, Ill.
Filed Nov. 15, 1950, Serial No. 606,425. Published Jan. 22, 1952. Class 21.

557,308. Newspaper Column. Northwest Publications, Inc., St. Paul, Minn.
Filed Nov. 18, 1950, Serial No. 606,628. Published Jan. 22, 1952. Class 38.

557,309. Alkali-Vaporous Discharge Tubes. FKG Fritz Kesselring Geräitebau A. G., Bachtobel-Weinfelden, Thurgau, Switzerland.
Priority under Sec. 44(d). Swiss Registration No. 133,744, filed May 20, 1950.
Filed Nov. 20, 1950, Serial No. 606,653. Published Jan. 8, 1952. Class 21.

557,310. Bicycle and Component Parts Thereof. Hercules Cycle and Motor Company Limited, Aston, Birmingham, England.
Filed Nov. 20, 1950, Serial No. 606,660. Published Jan. 1, 1952. Class 19.

557,311. Electrical Immersion Water Heaters. The Ambory Corporation, Hazel Park, Mich.
Filed Nov. 22, 1950, Serial No. 606,742. Published Jan. 1, 1952. Class 21.

557,312. Electric Lamps. Ruskin Manufacturing Company, Los Angeles, Calif.
Filed Nov. 24, 1950, Serial No. 606,900. Published Jan. 1, 1952. Class 21.

557,313. Television Receiving Sets. Scott Radio Laboratories, Inc., Chicago, Ill.
Filed Dec. 1, 1950, Serial No. 607,199. Published Jan. 22, 1952. Class 21.

557,314. General Cargo Van Trailers, Live Stock Trailers, Refrigerated Trailers, Platform Trailers, Passenger Carrying Trailers, Dump Body Trailers, Heavy Machinery Trailers, Logging Trailers, Tank Trailers for Bulk Liquid, Hopper Trailers for Bulk Materials, Open Truck Bodies, Van-Type Truck Bodies, Dump Truck Bodies, Truck Tanks for Bulk Liquids. Fruehauf Trailer Company, Detroit, Mich.
Filed Dec. 8, 1950, Serial No. 607,425. Published Jan. 1, 1952. Class 19.

557,315. Hosiery. Murphy, Brill & Sabner, Inc., New York, N. Y.
Filed Dec. 8, 1950, Serial No. 607,443. Published Jan. 15, 1952. Class 39.

557,316. Fertilizers. The Espoma Company, Millville, N. J.
Filed Dec. 16, 1950, Serial No. 607,745. Published Jan. 15, 1952. Class 10.

557,317. Insecticides. Bridgeport Brass Company, Bridgeport, Conn.
Filed Dec. 21, 1950, Serial No. 607,926. Published Jan. 15, 1952. Class 6.

557,318. Agricultural Fertilizer. Jackson Fertilizer Co., Jackson, Miss.
Filed Jan. 12, 1951, Serial No. 608,705. Published Jan. 15, 1952. Class 10.

557,319. Printed Labels. Tompkins' Label Service, Philadelphia, Pa.
Filed Jan. 13, 1951, Serial No. 608,774. Published Jan. 22, 1952. Class 38.

557,320. Meat and Meat Products—Namely, Bacon, Ham, Loaves, Sausage, Pork Shoulder Picnic, and Wiesers and Franks. The Sucher Packing Company, Dayton, Ohio.
Filed Jan. 17, 1951, Serial No. 608,901. Published Jan. 22, 1952. Class 46.

557,321. Preparation for Use as a Sedative, Analgesic, and Antipyretic. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y.
Filed Jan. 18, 1951, Serial No. 608,916. Published Nov. 27, 1951. Class 18.

557,322. Cheese. Etablissements Godefroy, Société Anonyme, Calvados, France.
Filed Jan. 22, 1951, Serial No. 609,082. Published Jan. 22, 1952. Class 46.

557,323. Bottled and Canned Red Cabbage and Sweet Pickled Beets. Lohmann Foods Corp., Gorham, N. Y.
Filed Feb. 1, 1952, Serial No. 609,487. Published Jan. 15, 1952. Class 46.

557,324. Anti-Allergy Preparation To Be Taken Internally in Tablet Form. Frederick S. Malcolm, doing business as Bryn Mawr Laboratories, Bryn Mawr, Pa.
Filed Feb. 3, 1951, Serial No. 609,598. Published Nov. 27, 1951. Class 18.

557,325. Fruit Preserves, Jellies, Marmalade; Mince Meat; Peanut Butter; Apple Butter; Bottled, Canned and Preserved Olives; and Honey. Griggs, Cooper & Company, St. Paul, Minn.
Filed Feb. 5, 1951, Serial No. 609,647. Published Jan. 15, 1952. Class 46.

557,326. Canned Corned Beef, Canned Corned Beef Hash, Canned Roast Beef, Canned Brisket Beef, Canned Tongue, Canned Corned Pork, Canned Corned Mutton, Canned Hamburgers, Canned Beef and Gravy. Corporacion Argentina de Productores de Carnes, New York, N. Y.
Filed Feb. 6, 1951, Serial No. 609,676. Published Dec. 11, 1951. Class 46.

557,327. Packing Materials Made Wholly of or From Various Combinations of Fibre, Cordage, Hemp, and/or Jute, Used in Making Watertight Joints in Plumbing Fixtures. Hanover Cordage Company Incorporated, Hanover, Pa.
Filed Feb. 8, 1951, Serial No. 609,797. Published Jan. 8, 1952. Class 35.

557,328. Boys' and Men's Raincoats, Jackets, Gloves, Pants, Hats, and Outer Shirts. Hickok Manufacturing Co. Inc., Rochester, N. Y.
Filed Feb. 8, 1951, Serial No. 609,798. Published Jan. 8, 1952. Class 39.

557,329. Synthetic Resins, and Blends of Synthetic Resins With Natural and Synthetic Elastomers and Resins. Marbon Corporation, Gary, Ind.
Filed Feb. 8, 1951, Serial No. 609,806. Published Jan. 15, 1952. Class 6.

557,330. Insecticides. Cook Chemical Company, Kansas City, Mo.
Filed Feb. 10, 1951, Serial No. 609,914. Published Jan. 15, 1952. Class 6.

557,331. Canned Fish and Canned Shellfish. Parrott & Co., San Francisco, Calif.
Filed Feb. 13, 1951, Serial No. 610,020. Published Jan. 15, 1952. Class 46.

557,332. Printed Wall Calendars, Printed Greeting Cards, Printed Greeting Folders, Printed Point of Purchase Paper Store Placards, Advertising Brochures, Printed Window Cards, and Printed Window Advertising Placards Distributed to the Trade. The Gerlach-Barklow Co., Joliet, Ill.
Filed Feb. 16, 1951, Serial No. 610,173. Published Jan. 15, 1952. Class 38.

557,333. Books Pertaining to Labor, Magazines Published Serially From Time to Time, Periodicals and Brochures Pertaining to Labor. Claridge Publishing Corp., New York, N. Y.
Filed Feb. 17, 1951, Serial No. 610,201. Published Jan. 15, 1952. Class 38.

557,334. Salad Dressing, Mayonnaise Dressing, Pancake Mix, Waffle Mix, Barbecue Sauce, Soup Bases, and Salad and Cooking Oil of Vegetable Origin. Wass Food Products Co., Chicago, Ill.
Filed Feb. 17, 1951, Serial No. 610,242. Published Jan. 15, 1952. Class 46.

557,335. Bread. Davidson Baking Co., Portland, Oreg.
Filed Feb. 1, 1951, Serial No. 610,250. Published Jan. 22, 1952. Class 46.

557,336. Formaldehyde and Solutions Containing Formaldehyde. Heyden Chemical Corporation, New York, N. Y.
Filed Feb. 19, 1951, Serial No. 610,267. Published Jan. 15, 1952. Class 6.

557,337. Liquid Milk Food Product for Dietary Uses and Especially Prepared for Infant Feeding. M & R Dietetic Laboratories, Inc., Columbus, Ohio.
Filed Feb. 20, 1951, Serial No. 610,326. Published Dec. 25, 1951. Class 46.

557,338. Plate Solutions for Chemically Depositing Copper in a Lithographing Plate Image. Roberts & Porter, Inc., Chicago, Ill.
Filed Mar. 3, 1951, Serial No. 610,800. Published Jan. 8, 1952. Class 6.

557,339. Feed for Livestock. Albers Milling Company, Los Angeles, Calif., and Portland, Oreg.
Filed Mar. 5, 1951, Serial No. 610,816. Published Jan. 15, 1952. Class 46.

557,340. Machine Dishwashing Compound. Virginia-Carolina Chemical Corporation, Richmond, Va.
Filed Mar. 6, 1951, Serial No. 610,932. Published Dec. 25, 1951. Class 52.

557,341. Liquid Lipolytic and Proteolytic Enzyme Compositions for Developing Flavor and Modifying the Body of Cheese. Dairyland Food Laboratories, Inc., Waukesha, Wis.
Filed Mar. 7, 1951, Serial No. 610,956. Published Jan. 15, 1952. Class 46.

557,342. Periodical Published From Time to Time. The Emil Greiner Company, New York, N. Y.
Filed Mar. 7, 1951, Serial No. 610,967. Published Jan. 1, 1952. Class 38.

557,343. Aerosol Bombs Containing Disinfectants, Deodorants, Sanitizers, and Air Fresheners. Hysan Products Company, Chicago, Ill.
Filed Mar. 7, 1951, Serial No. 610,975. Published Jan. 15, 1952. Class 6.

557,344. Static Dust Preventive Which Is Used for Coating Surfaces To Eliminate Static Electricity Accumulations Thereon, and To Repel Dust Therefrom. Emerson Radio and Phonograph Corporation, New York, N. Y.
Filed Mar. 8, 1951, Serial No. 611,027. Published Jan. 8, 1952. Class 6.

557,345. Electric Lampshades. Imperial Chemical Industries Limited, London and Millbank, London, England.
Filed Mar. 12, 1951, Serial No. 611,180. Published Dec. 18, 1951. Class 21.

557,346. Comb Cleaning Preparation. Conrad F. Clothier, doing business under the trade name and style of C. F. Clothier & Co., Baltimore, Md.
Filed Mar. 15, 1951, Serial No. 611,342. Published Jan. 15, 1952. Class 52.

557,347. Bicycles. Arnold, Schwinn & Co., Chicago, Ill.
Filed Mar. 17, 1951, Serial No. 611,468. Published Jan. 1, 1952. Class 19.

557,348. Colored Picture Post Cards. Kennelly-Lumitone Co. Inc., New York, N. Y.
Filed Mar. 19, 1951, Serial No. 611,524. Published Jan. 22, 1952. Class 38.

557,349. Periodical Publications, Prints, and Plans With Information for Construction of Various Articles of Wood, Metal, or Both. Rockwell Manufacturing Company, Pittsburgh, Pa.
Filed Mar. 19, 1951, Serial No. 611,543. Published Jan. 22, 1952. Class 38.

557,350. Apple Juice. Charbonneau Packing Corporation, Selah, Wash.
Filed Mar. 20, 1951, Serial No. 611,560. Published Jan. 15, 1952. Class 46.

557,351. Carbon Black for Use in the Plastic, Paper, Metallurgical, Ceramic, and Other Miscellaneous Industries. Godfrey L. Cabot, Inc., Boston, Mass.
Filed Mar. 21, 1951, Serial No. 611,599. Published Jan. 15, 1952. Class 6.

557,352. Tea and Coffee. G. E. Barbour Company Limited, St. John, New Brunswick, Canada.
Filed Mar. 22, 1951, Serial No. 611,631. Published Jan. 15, 1952. Class 46.

557,353. Series of Cartoons or Comic Strips. The Hearst Corporation, New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,697. Published Jan. 1, 1952. Class 38.

557,354. Series of Cartoons or Comic Strips. The Hearst Corporation, New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,698. Published Jan. 1, 1952. Class 38.

557,355. Insecticides. Hi-Yield Fertilizer Company, Bonham, Tex.
Filed Mar. 26, 1951, Serial No. 611,784. Published Jan. 15, 1952. Class 6.

557,356. Hosiery for Women and Girls. Willis Hosiery Mills Inc., Concord, N. C.
Filed Mar. 28, 1951, Serial No. 611,927. Published Jan. 15, 1952. Class 39.

557,357. Chemical Composition Adapted for Use in Clarifying Wine. Julius H. Fessler, doing business as Berkeley Yeast Laboratory, Berkeley, Calif.
Filed Mar. 29, 1951, Serial No. 611,950. Published Jan. 15, 1952. Class 6.

557,358. Household and Industrial Gloves Made From Natural or Synthetic Rubber, or Rubber-Like Material, or Combinations Thereof. The Pioneer Rubber Company, Willard, Ohio.
Filed Mar. 30, 1951, Serial No. 612,033. Published Jan. 15, 1952. Class 39.

557,359. Bacon, Canned Stew Beef, Souse, Frankfurts, Bologna, Beef Tongue, Wieners, Pork Shoulder, Canned Corn Beef Hash, Meat Loaf, Sausage, and Luncheon Tongue. Hygrade Food Products Corporation, Detroit, Mich.
Filed Mar. 15, 1951, Serial No. 612,056. Published Dec. 11, 1951. Class 46.

557,360. Insecticides—Namely, Grain Fumigants. Research Products Company, Kansas City, Mo.
Filed Mar. 31, 1951, Serial No. 612,089. Published Jan. 8, 1952. Class 6.

557,361. Insecticides—Namely, Fumigants for Killing Insects. Research Products Company, Kansas City, Mo.
Filed Mar. 31, 1951, Serial No. 612,090. Published Jan. 8, 1952. Class 6.

557,362. Canned Citrus Food Products for Food Purposes—Namely, Grapefruit and Orange Broken Segments, and Grapefruit and Tomato Juices. Bordo Products Company, Chicago, Ill.
Filed Apr. 2, 1951, Serial No. 612,118. Published Jan. 15, 1952. Class 46.

557,363. Sales Periodical Issued Monthly. Merck & Co., Inc., Rahway, N. J.
Filed Apr. 4, 1951, Serial No. 612,212. Published Jan. 22, 1952. Class 38.

557,364. Magazine Published Monthly. Belle S. Keller, doing business as Keller Publishing Company, New York, N. Y.
Filed Apr. 6, 1951, Serial No. 612,332. Published Jan. 15, 1952. Class 38.

557,365. Pharmaceutical Preparation Indicated for the Treatment of Hypertension. The S. E. Massengill Company, Bristol, Tenn.
Filed Apr. 6, 1951, Serial No. 612,337. Published Nov. 27, 1951. Class 18.

557,366. Pharmaceutical Preparation Having Vermicidal Action. The S. E. Massengill Company, Bristol, Tenn.
Filed Apr. 6, 1951, Serial No. 612,338. Published Nov. 27, 1951. Class 18.

557,367. Pharmaceutical Ointment Preparation Containing the Cod-Liver Oil Vitamins and Allantoin as Stimulants to the Healing of Wounds, Burns, and Surface Injuries. The S. E. Massengill Company, Bristol, Tenn.
Filed Apr. 6, 1951, Serial No. 612,340. Published Nov. 27, 1951. Class 18.

557,368. Pharmaceutical Preparation Indicated for the Treatment of Obesity. The S. E. Massengill Company, Bristol, Tenn.
Filed Apr. 6, 1951, Serial No. 612,341. Published Nov. 27, 1951. Class 18.

557,369. Razor Blades. Glenn C. Mitchell, Sr., doing business under the names of Bulk Razor Blade Co., The Barber Blade Co., and Barber Razor Blade Co., Aurora, Ill.
Filed Apr. 10, 1951, Serial No. 612,464. Published Jan. 1, 1952. Class 23.

557,370. Drug Having Physostigmine-Like Action. Warner-Hudnut, Inc., New York, N. Y.
Filed Apr. 10, 1951, Serial No. 612,476. Published Nov. 27, 1951. Class 18.

557,371. Inner Tubes for Pneumatic Tires. Robbins Tire & Rubber Company, Inc., Tuscumbia, Ala.
Filed Apr. 11, 1951, Serial No. 612,508. Published Jan. 8, 1952. Class 35.

557,372. Compound Used in Relief of Head Colds. Schenley Laboratories, Inc., New York, N. Y.
Filed Apr. 11, 1951, Serial No. 612,511. Published Nov. 27, 1951. Class 18.

557,373. Rice. E. E. Edmundson, Jr., Rayne, La.
Filed Apr. 12, 1951, Serial No. 612,534. Published Jan. 15, 1952. Class 46.

557,374. Rodenticide. Xterminator Products Corporation, Jersey City, N. J.
Filed Apr. 12, 1951, Serial No. 612,573. Published Jan. 15, 1952. Class 6.

557,375. Fresh Frozen Fish, and Fresh Frozen Shrimp. Eastern Banana Corp., New York, N. Y.
Filed Apr. 13, 1951, Serial No. 612,599. Published Jan. 15, 1952. Class 46.

577,376. Lithographed Labels for Plants and Flowers. Schwabacher-Frey Company, San Francisco, Calif.
Filed Apr. 16, 1951, Serial No. 612,706. Published Jan. 15, 1952. Class 38.

557,377. Ladies', Misses', and Teen Age Girls' Cotton Dresses, Housecoats, Brunch Coats, and Pinafores. Cotton City Wash Frocks, Inc., Fall River, Mass.
Filed Apr. 17, 1951, Serial No. 612,732. Published Jan. 15, 1952. Class 39.

557,378. Educational Literature in the Form of Printed Sheets, Cards, Posters, or Pamphlets. Joseph Luchs, doing business as Joseph Luchs and Staff, Philadelphia, Pa.
Filed Apr. 18, 1951, Serial No. 612,810. Published Jan. 15, 1952. Class 38.

557,379. Monthly Publication. The Borden Company, New York, N. Y.
Filed Apr. 20, 1951, Serial No. 612,892. Published Jan. 1, 1952. Class 38.

557,380. Coal. Payne Coal Sales Company, Inc., Wilkes-Barre, Pa.
Filed Apr. 20, 1951, Serial No. 612,930. Published Jan. 1, 1952. Class 1.

557,381. Quarterly Publication. Stoody Company, Whittier, Calif.
Filed Apr. 23, 1951, Serial No. 613,030. Published Jan. 15, 1952. Class 38.

557,382. Cosmetic Preparations—Namely, Astringents, All Purpose Cream, Creme Lotion, Dry Skin Cream, Cleansing Cream, and Deep Pore Cleanser. L & L Beauty Products, Pioche, Nev.
Filed Apr. 24, 1951, Serial No. 613,076. Published Jan. 1, 1952. Class 51.

557,383. Ladies' and Misses' Gloves of Leather, Fabric, and Combinations Thereof. Dawnelle, Inc., New York, N. Y.
Filed Apr. 25, 1951, Serial No. 613,122. Published Jan. 15, 1952. Class 39.

557,384. Dimer Acid. Emery Industries, Inc., Cincinnati, Ohio.
Filed Apr. 27, 1951, Serial No. 613,216. Published Jan. 8, 1952. Class 6.

557,385. Magazine Published Periodically. I. C. Publishing Co., Inc., New York, N. Y.
Filed Apr. 30, 1951, Serial No. 613,331. Published Jan. 1, 1952. Class 38.

557,386. Women's, Misses', and Children's Blouses. L. Brod Company, Philadelphia, Pa.
Filed May 2, 1951, Serial No. 613,397. Published Jan. 15, 1952. Class 39.

557,387. Candies. Steven Candy Kitchens, Inc., Chicago, Ill.
Filed May 2, 1951, Serial No. 613,428. Published Dec. 11, 1951. Class 46.

557,388. Chemical Compositions—Namely, Polyethyleneoxidearyl Condensate in Liquid and Solid Form. West Laboratories, Inc., Long Island City, N. Y.
Filed May 4, 1951, Serial No. 613,543. Published Jan. 15, 1952. Class 6.

557,389. Clothing for Men and Boys—Namely, Underwear, Sport Shirts, Work Shirts, Work Pants, and Dress Pants. Seg-Mar, Inc., New Orleans, La.
Filed May 8, 1951, Serial No. 613,654. Published Jan. 8, 1952. Class 39.

557,390. Women's Hosiery. Barbara Jean Hosiery Company, Penndel, Pa.
Filed May 11, 1951, Serial No. 613,737. Published Jan. 8, 1952. Class 39.

557,391. Spring Driven Gongs That Are Electrically Controlled and Tripped, Gongs That Are Operated by Solenoids or Electromagnets or the Like, and Gongs Which Are Operated by Electric Motors and Which Are of the Type Used on Railway Crossings, Bridges, and the Like. B & B Engineering Corporation, Norwood, La.
Filed May 16, 1951, Serial No. 613,895. Published Jan. 8, 1952. Class 21.

557,392. Ashtrays. Paul Ernest Perry, New York, N. Y.
Filed May 16, 1951, Serial No. 613,944. Published Jan. 8, 1952. Class 8.

557,393. Incandescent and Fluorescent Lamps. Duro-Test Corporation, North Bergen, N. J.
Filed Mar. 27, 1951, Serial No. 613,953. Published Jan. 8, 1952. Class 21.

557,394. Wheelbarrows. Belknap Hardware and Manufacturing Company, Louisville, Ky.
Filed May 17, 1951, Serial No. 613,965. Published Jan. 1, 1952. Class 19.

557,395. Combination Television-Radio-Phonograph Sets and Parts Thereof. Michaels & Co., Inc., Brooklyn, N. Y.
Filed May 17, 1951, Serial No. 614,003. Published Jan. 1, 1952. Class 21.

557,396. Aircraft Designated as Attack Bomber. North American Aviation, Inc., Los Angeles, Calif.
Filed May 19, 1951, Serial No. 614,095. Published Jan. 1, 1952. Class 19.

557,397. Monthly Magazine. Vive Publishing Co., Chicago, Ill.
Filed May 19, 1951, Serial No. 614,112. Published Jan. 1, 1952. Class 38.

557,398. Electronic Audio-Amplifier Units, Etc. Globe-Union Inc., Milwaukee, Wis.
Filed May 21, 1951, Serial No. 614,138. Published Jan. 22, 1952. Class 21.

557,399. Electronic Audio-Detector Units, Etc. Globe-Union Inc., Milwaukee, Wis.
Filed May 21, 1951, Serial No. 614,139. Published Jan. 22, 1952. Class 21.

557,400. Balanced Diode Load Filter Units, Etc. Globe-Union Inc., Milwaukee, Wis.
Filed May 21, 1951, Serial No. 614,140. Published Jan. 22, 1952. Class 21.

557,401. Airplanes and the Structural or Body Parts of Airplanes. Texas Engineering and Manufacturing Company, Inc., Grand Prairie, Tex.
Filed May 21, 1951, Serial No. 614,175. Published Jan. 1, 1952. Class 19.

557,402. Electric Space Heaters. Florence Stove Company, Gardner, Mass.
Filed May 23, 1951, Serial No. 614,247. Published Dec. 18, 1951. Class 21.

557,403. Arc Light Carbons. Societe Anonyme: Le Carbone Lorraine, Paris, France.
Filed May 24, 1951, Serial No. 614,316. Published Dec. 18, 1951. Class 21.

557,404. Separators or Insulators Used in Storage Batteries. Willard Storage Battery Company, Cleveland, Ohio.
Filed May 24, 1951, Serial No. 614,325. Published Dec. 18, 1951. Class 21.

557,405. Trade Publication, Published From Time to Time. Esquire Sportswear Co., New York, N. Y.
Filed May 26, 1951, Serial No. 614,403. Published Jan. 1, 1952. Class 38.

557,406. Powdered Household Laundry Bleach. Imperial Products Company, Philadelphia, Pa.
Filed May 28, 1951, Serial No. 614,441. Published Jan. 22, 1952. Class 6.

557,407. Newspaper Column. John C. Moffitt, Los Angeles, Calif.
Filed May 28, 1951, Serial No. 614,452. Published Jan. 1, 1952. Class 38.

557,408. Electrical Cable Connectors. Unimatic Corporation, Nutley, N. J.
Filed May 29, 1951, Serial No. 614,524. Published Jan. 8, 1952. Class 21.

557,409. Photographic Prints. Alan Foster, doing business as Alan Foster Associates, New York, N. Y.
Filed June 1, 1951, Serial No. 614,620. Published Jan. 8, 1952. Class 38.

557,410. Leaflets Published Periodically. De Walt Inc., Lancaster, Pa.
Filed June 4, 1951, Serial No. 614,689. Published Jan. 8, 1952. Class 38.

557,411. Aluminum Soaps. Mallinckrodt Chemical Works, St. Louis, Mo.
Filed June 11, 1951, Serial No. 615,017. Published Jan. 15, 1952. Class 6.

557,412. Books. Penguin Books, Inc., Baltimore, Md.
Filed June 11, 1951, Serial No. 615,020. Published Jan. 8, 1952. Class 38.

557,413. Printed Periodicals. United Parcel Service of America, Inc., Wilmington, Del.
Filed June 22, 1951, Serial No. 615,586. Published Jan. 22, 1952. Class 38.

557,414. Periodical Publication. Motor Cargo, Inc., Memphis, Tenn.
Filed June 26, 1951, Serial No. 615,716. Published Jan. 22, 1952. Class 38.

557,415. Sales Promotion Coupon Books. Paul A. Schaefer, doing business as Schaefer Advertising Agency, St. Paul, Minn.
Filed June 27, 1951, Serial No. 615,796. Published Jan. 22, 1952. Class 38.

557,416. Newspaper Section or Department. The Hearst Corporation, New York, N. Y.
Filed June 28, 1951, Serial No. 615,835. Published Jan. 22, 1952. Class 38.

557,417. Hydraulic Fluid for Use in Hydraulic Systems of All Kinds. R. M. Hollingshead Corporation, Camden, N. J.
Filed June 29, 1951, Serial No. 615,896. Published Jan. 15, 1952. Class 6.

557,418. Trucking Carrier Directories and Rosters Issued in a Series. Kallis and Kallis, Chicago, Ill.
Filed June 30, 1951, Serial No. 615,935. Published Jan. 22, 1952. Class 38.

557,419. Electric Storage Batteries and Electric Dry Cells. Marshall-Wells Company, Duluth, Minn.
Filed July 5, 1951, Serial No. 616,113. Published Jan. 22, 1952. Class 21.

557,420. Green Coffee. Steinwender, Stoffregen & Co., New York, N. Y.
Filed July 9, 1951, Serial No. 616,252. Published Jan. 15, 1952. Class 46.

Service Marks

557,421. Product Demonstration, Selling, and Advertising Services, Etc. Nellie A. Halladay, Minneapolis, Minn.
Filed Nov. 9, 1949, Serial No. 587,547. Published Jan. 1, 1952. Class 101.

557,422. Construction Services and Construction Engineering in the Construction, for Example, of Dams, Locks, Bridges, Aqueducts, Reservoirs, Tunnels, Railroads, Highways, Jetties, Power Plants, Pipelines, Irrigation Canals, and Siphons, Docks, Industrial Buildings, Ships, Military Buildings, Aircraft Hangars, Airfields, and in Mine Stripping. Winston Bros. Company, Minneapolis, Minn.
Filed Nov. 19, 1949, Serial No. 588,120. Published Jan. 15, 1952. Class 103.

557,423. General Real Estate Brokerage, Etc. Lewis D. De Marco, doing business under the style and firm name of Bray & MacGeorge, Vineland, N. J.
Filed Jan. 21, 1950, Serial No. 591,224. Published Jan. 1, 1952. Class 102.

557,424. Teaching Screen Process Printing by Correspondence. Radio-Television Training School, Inc., also doing business as California Academy of Screen Process, Los Angeles, Calif.
Filed Nov. 30, 1950, Serial No. 607,141. Published Jan. 15, 1952. Class 107.

557,425. The Serving of Foods and Beverages in Restaurants. Walter G. Chapman, Louisville, Ky.
Filed Jan. 10, 1951, Serial No. 608,590. Published Jan. 15, 1952. Class 100.

557,426. Motor Van Transportation of Merchandise and Other Articles and Materials. Henry W. Scramlin, trading and doing business under the name of Terminal Van Lines, St. Petersburg, Fla.
Filed Feb. 9, 1951, Serial No. 609,884. Published Jan. 15, 1952. Class 105.

557,427. Leasing Freight Cars. General American Transportation Corporation, Chicago, Ill.
Filed Mar. 14, 1951, Serial No. 611,268. Published Jan. 15, 1952. Class 105.

Collective Mark

557,428. Carnations. New England Carnation Growers Association, Inc., South Sudbury, Mass.
Filed Feb. 21, 1951, Serial No. 610,377. Published Dec. 25, 1951. Class 1.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

557,429. (Class 6. Chemicals and Chemical Compositions.) E. A. Aldridge, doing business as Chemco Products Company, Los Angeles, Calif., assignor to Robert W. Bruce, Los Angeles, Calif. Original filed, act of 1905, Sept. 25, 1945; amended to application under act of 1946, Supplemental Register, May 26, 1949, Serial No. 488,951.

FOODSAFE

For Absorbent Chemicals Housed in a Cannister To Be Used for Controlling Humidity and Odors in Refrigerators and Confined Spaces.
Claims use since June 25, 1945.

557,430. (Class 22. Games, Toys, and Sporting Goods.) United Cigar-Whelan Stores Corporation, New York, N. Y. Original filed, act of 1905, Dec. 28, 1946; amended to application under act of 1946, Supplemental Register, Oct. 22, 1948, Serial No. 515,003.

MONTE CARLO

For Playing Cards.
Claims use since Dec. 1, 1946.

557,431. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Gar Wood Industries, Inc., Wayne, Mich. Original filed, act of 1946, Principal Register, Dec. 28, 1948; amended to application, Supplemental Register, Aug. 6, 1951, Serial No. 571,208.

Reel-Rite

For Mechanically Operated Winches.
Claims use since Dec. 10, 1948.

557,432. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Kenneth O. Duncan, Los Angeles, Calif. Original filed, act of 1946, Principal Register, Mar. 14, 1949; amended to application, Supplemental Register, May 21, 1951, Serial No. 575,395.

ROC-JAK

For Hand Powered Expanding Tools Known as Concrete Breakers.
Claims use since Jan. 25, 1947.

557,433. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Jay Rosten, doing business as Jaysen Strips Co., Brooklyn, N. Y. Original filed, act of 1946, Principal Register, Jan. 16, 1951; amended to application, Supplemental Register, Nov. 28, 1951, Serial No. 590,946.

FIX — ◇ — STRIP

For Perforated Metal Strips To Fasten Two or More Members Together and for Hanging Up Bottles, Glasses, Flower Pots and the Like.
Claims use since Dec. 1, 1949.

557,434. (Class 21. Electrical Apparatus, Machines, and Supplies.) The Tappan Stove Company, Mansfield, Ohio. Original filed, act of 1946, Principal Register, May 23, 1950; amended to application, Supplemental Register, Aug. 25, 1951, Serial No. 597,985.

DIVIDED ÷ TOP

Applicant claims ownership of Registration No. 529,015.
For Electric Ranges and Stoves.
Claims use since Jan. 1, 1941.

557,435. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Leland Detroit Manufacturing Company, Detroit, Mich. Original filed, act of 1946, Principal Register, Aug. 16, 1950; amended to application, Supplemental Register, Dec. 6, 1951, Serial No. 602,266.

LELAND-TERRA-TILLER

For Tractors.
Claims use since June 7, 1948.

557,436. (Class 36. Musical Instruments and Supplies.) Pfanstiehl Chemical Company, Chicago and Waukegan, Ill. Original filed, act of 1946, Principal Register, Aug. 23, 1950; amended to application, Supplemental Register, Oct. 18, 1951, Serial No. 602,626.

FLEX-STAFF

Applicant claims ownership of Registration No. 359,318.
For Metal Phonograph Needles With Long Wearing Tips.
Claims use since Sept. 14, 1948.

557,437. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) H. K. Porter, Inc., Somerville, Mass. Original filed, act of 1946, Principal Register, Sept. 21, 1950; amended to application, Supplemental Register, Jan. 3, 1952, Serial No. 603,857.

IMPAKDRIVER

For Combination Hand Tool for Tightening and Loosening Bolts, Nuts and Screws.
Claims use since July 18, 1950.

557,438. (Class 46. Foods and Ingredients of Foods.) Chas. L. Mull & Sons, Muscatine, Iowa. Original filed, act of 1946, Principal Register, Sept. 22, 1950; amended to application, Supplemental Register, Jan. 26, 1952, Serial No. 603,891.

PORT CITY

For Canned Peas, Corn, Tomatoes, and Green Beans.
Claims use since Sept. 15, 1950.

557,439. (Class 10. Fertilizers.) Gro-Crop, Inc., Summerdale, Ala. Original filed, act of 1946, Principal Register, Sept. 30, 1950; amended to application, Supplemental Register, Sept. 4, 1951, Serial No. 604,260.

Gro-Crop

For Liquid Fertilizer.
Claims use since January 1949.

557,440. (Class 22. Games, Toys, and Sporting Goods.) American Metal Specialties Corporation, Hatboro, Pa. Filed May 11, 1951, Serial No. 613,753.

DOLL-E-CRADLE BY AMSCO

The word "Cradle" is disclaimed. Applicant claims ownership of Registrations Nos. 539,036 and 539,703.
For Toy Cradle for Children.
Claims use since December 1949.

557,441. (Class 46. Foods and Ingredients of Foods.) George E. Abbott & Co., Brooklyn, N. Y. Filed Aug. 28, 1951, Serial No. 618,137.

ABBOTT

For Canned Food Products—Namely, Pickles and Oven Baked Beans.
Claims use since Oct. 8, 1950.

557,442. (Class 26. Measuring and Scientific Appliances.) Bendix Aviation Corporation, Detroit, Mich. Filed Sept. 28, 1951, Serial No. 619,864.

Hygrodial

For Temperature and Humidity Indicating Instruments.
Claims use since Sept. 15, 1949.

Service Mark

557,443. (Class 106. Material Treatment.) Hans C. Bick, Inc., Reading, Pa. Original filed, act of 1946, Principal Register, Apr. 3, 1951; amended to application, Supplemental Register, Jan. 18, 1952, Serial No. 612,237.

nylonized

For Finishing of Nylon and Other Woven or Knit Fabrics by Applying an Emulsified Nylon Finish Coating Thereon, Such as Type 8 Nylon, While in the Finishing Bath, To Make Them Moisture Absorbent.
Claims use since Dec. 30, 1949.

TRADE-MARK REGISTRATIONS RENEWED

38,081. GLYCO-THYMOLINE. Registered Apr. 8, 1902. Kress & Owen Company, New York, N. Y., a corporation of New York. Re-renewed Apr. 8, 1952. An Alterative Solution for the Treatment of Mucous Membrane. Class 18.

38,412. ASBESTOLITH. Registered June 3, 1902. The Asbestolith Company, New York, N. Y. Re-renewed June 3, 1952, to Asbestolith Manufacturing Corporation, Brooklyn, N. Y., a corporation of New York. Cement for Floorings, Ceilings, and Sidings. Class 12.

84,772. EUCHRELYPTUM. Registered Jan. 2, 1912. West Disinfecting Company, New York, N. Y. Renewed Jan. 2, 1952, to West Disinfecting Company, Long Island City, N. Y., a corporation of New York. Disinfecting Fluid. Class 6.

84,889. LIGGETT'S. Registered Jan. 9, 1912. United Drug Co., Boston, Mass. Re-renewed Jan. 9, 1952, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Candy. Class 46.

84,972. DELMONICO. Registered Jan. 16, 1912. Kentucky Refining Co., Louisville, Ky. Re-renewed Jan. 16, 1952, to The Glidden Company, Cleveland, Ohio, a corporation of Ohio. Cotton-Seed Oil. Class 46.

85,003. "REGAL" AND HERALDIC DESIGN. Registered Jan. 16, 1912. Regal Shoe Company, Inc., Boston, Mass., assignor to Regal Shoe Company. Re-renewed Jan. 16, 1952, to Regal Shoe Company, Whitman, Mass., a corporation of Massachusetts. Leather Boots and Shoes. Class 39.

85,766. PREMIER. Registered Mar. 12, 1912. The Premier Vacuum Cleaner Co., Cleveland, Ohio. Renewed Mar. 12, 1952, to General Electric Company, Schenectady, N. Y., a corporation of New York. Vacuum-Cleaners. Class 23.

85,956. CARAJE. Registered Apr. 2, 1912. Dwinell-Wright Company, Boston, Mass., a corporation of Massachusetts. Re-renewed Apr. 2, 1952. Coffee. Class 46.

86,137. BLUE STREAK. Registered Apr. 16, 1912. The Goodyear Tire & Rubber Company, Akron, Ohio, a corporation of Ohio. Re-renewed Apr. 16, 1952. Elastic Vehicle-Tires. Class 35.

86,436. TEX. Registered May 7, 1912. National Fire Proofing Company. Re-renewed May 7, 1952, to National Fireproofing Corporation, Pittsburgh, Pa., a corporation of Pennsylvania. Structural Blocks, Bricks, and Tiles of Terra-Cotta and Clay. Class 12.

86,439. "N.C.K." AND DRAWING. Registered May 7, 1912. New Castle Leather Co., New York, N. Y. Renewed May 7, 1952, to Allied Kid Company, Boston, Mass., a corporation of Massachusetts. Uncut Kid-Leather. Class 1.

86,499. "DIAMOND EDGE" AND DESIGN. Registered May 7, 1912. Norvell-Shapleigh Hardware Company. Re-renewed May 7, 1952, to Shapleigh Hardware Company, St. Louis, Mo., a corporation of Missouri. Axes, Hatchets, Butcher Knives, Bread Knives, Etc. Class 23.

281,626. ON-GARD. Registered Mar. 24, 1931. Macklanburg-Duncan Company, Oklahoma City, Okla., a corporation of Oklahoma. Renewed Mar. 24, 1951. Metal and Felt Weather Stripping, Metal Weather Stripping, and Felt Weather Stripping. Class 12.

282,497. OPERA VELVETS. Registered Apr. 21, 1931. J. B. Martin Company, Norwich, Conn. Renewed Apr. 21, 1951, to Martin Fabrics Corporation, New York, N. Y., a corporation of New York. Pile Fabrics in the Piece. Class 42.

283,219. "AIO" WITHIN DIAMOND DESIGN. Registered May 19, 1931. A. I. O. Company, Chicago, Ill. Renewed May 19, 1951, to Virginia B. Thompson, Port Washington, N. Y. Ointment To Be Used for the Treatment of Ringworm of the Feet and Genitocrural Region. Class 18.

284,146. LUCIA. Registered June 16, 1931. J. B. Martin Company, Norwich, Conn. Renewed June 16, 1951, to Martin Fabrics Corporation, New York, N. Y., a corporation of New York. Pile Fabrics in the Piece. Class 42.

287,541. "LITTLE MONARCH" AND DRAWING. Registered Sept. 29, 1931. Monarch Shoe Co., Inc. Renewed Sept. 29, 1951, to Monarch-Youngstera Shoes, Inc., Chicago, Ill., a corporation of Illinois. Baby Shoes. Class 39.

289,995. REPRESENTATION OF JAPANESE CHARACTERS. Registered Dec. 22, 1931. Atsumori Tamenaga, Ebara-Gun, Tokyo, Japan. Vested in the Attorney General of the United States, Washington, D. C., and renewed to him Dec. 22, 1951. An Ointment Used for Promoting the Growth of Hair. Class 51.

290,066. CLEARIE. Registered Dec. 22, 1931. Master Marble Company. Renewed Dec. 22, 1951, to Master Glass Company, Clarksburg, W. Va., a corporation of West Virginia. Marbles. Class 22.

290,355. PAINTGRIP. Registered Jan. 5, 1932. The American Rolling Mill Company. Renewed Jan. 5, 1952, to Armco Steel Corporation, Middletown, Ohio, a corporation of Ohio. Galvanized Iron and Steel Sheets. Class 14.

290,358. PREMIER. Registered Jan. 5, 1932. The American Steel and Wire Company of New Jersey, Cleveland, Ohio; Chicago, Ill.; Pittsburgh, Pa.; New York, N. Y.; Worcester, Mass.; and Hoboken, N. J. Renewed Jan. 5, 1952, to The American Steel and Wire Company of New Jersey, Cleveland, Ohio, a corporation of New Jersey. Wire and More Particularly Spring Wire. Class 14.

290,409. ALWAYS YOUNG. Registered Jan. 5, 1932. Dorothy Bickum, New York, N. Y. Renewed Jan. 5, 1952. Undergarments for Women, Misses, and Children—Namely, Bandettes, Brassières, Etc. Class 39.

290,489. REPRESENTATION OF SHIP, ETC. Registered Jan. 5, 1932. El Rey Products Co., Los Angeles, Calif. Renewed Jan. 5, 1952, to The Celotex Corporation, Chicago, Ill., a corporation of Delaware. Felt and Asphalt Roofing, Composition Shingles, Composition Siding Material, Etc. Class 12.

290,655. "VERITABLE ROQUEFORT" ETC. AND DRAWING. Registered Jan. 12, 1932. Bernard M. Douglas. Renewed Jan. 12, 1952, to Roquefort Association, Inc., New York, N. Y., a corporation of New York. Roquefort Cheese. Class 46.

290,733. TERMINIX. Registered Jan. 12, 1932. E. L. Bruce Company, Memphis, Tenn., a corporation of Delaware. Renewed Jan. 12, 1952. Insecticides. Class 6.

290,735. BYE-BI-KNIT. Registered Jan. 12, 1932. Minneapolis Knitting Works, Minneapolis, Minn., a corporation of Minnesota. Renewed Jan. 12, 1952. Infants' and Children's Underwear and Sleeping Garments, Infants' Shirts and Bands, Etc. Class 39.

290,750. "M C G" ETC. AND DESIGN LINED FOR GREEN, BLUE AND YELLOW. Registered Jan. 12, 1932. Ada McGinnis, doing business as Triple Value Products Co., St. Louis, Mo. Renewed Jan. 12, 1952. Vanishing Cream, Skin Lotion, and Hair Gloss. Class 51.

290,906. "FLEERS BUBBLE BALL" ETC. AND DRAWING. Registered Jan. 19, 1932. Frank H. Fleer Corporation, Philadelphia, Pa., a corporation of Delaware. Renewed Jan. 19, 1952. Chewing Gum Comprising a Core of Chewing Gum and a Thick Coating or Covering of Hard Candy. Class 46.

291,080. BUFO. Registered Jan. 26, 1932. Bultfabriks Aktiebolaget, Hallstahammar, Sweden, a joint stock company organized under the laws of Sweden. Renewed Jan. 26, 1952. Bolts, Nuts, and Metal Washers. Class 13.

291,123. TIOLENE. Registered Jan. 26, 1932. The Pure Oil Company, Chicago, Ill., a corporation of Ohio. Renewed Jan. 26, 1952. Toilet and Laundry Soap, Automobile Soap, Hard Soap, Etc. Class 52.

291,579. LIP LIFE. Registered Feb. 23, 1932. Howard S. Grove, doing business as Howard S. Grove Co. Renewed Feb. 23, 1952, to Natone Co., Inc., Los Angeles, Calif., a corporation of California. Cosmetic in Cream Form for the Lips. Class 51.

291,655. SWIMAWAY. Registered Feb. 23, 1932. J. C. Penney Company, Wilmington, Del., and New York, N. Y. Renewed Feb. 23, 1952, to J. C. Penney Company, New York, N. Y., a corporation of Delaware. Men's, Women's, and Children's Bathing Suits. Class 39.

291,868. "CARBON HILL" AND DRAWING. Registered Feb. 23, 1932. Amherst-Logan County Coal Corporation. Renewed Feb. 23, 1952, to Amherst Fuel Company, Charleston, W. Va., a corporation of West Virginia. Coal. Class 1.

292,293. CRYSTOIDS. Registered Mar. 8, 1932. Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland. Renewed Mar. 8, 1952. Pills for Use as an Anthelmintic. Class 18.

292,414. "COURTNEY E. BELL" ETC. AND DESIGN. Registered Mar. 15, 1932. People's Outfitting Company, Detroit, Mich., a corporation of Michigan. Renewed Mar. 15, 1952. Men's and Boys' Clothing—Namely, Overcoats, Top Coats, Suits, Coats, Vests and Trousers. Class 39.

292,655. LE GANT. Registered Mar. 22, 1932. The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut. Renewed Mar. 22, 1952. Women's Underclothing of Knitted or Textile Fabric—Namely, Corsets, Etc. Class 39.

292,822. CASTROLITE. Registered Mar. 29, 1932. Royce Chemical Company, Carlton Hill, N. J., a corporation of New Jersey. Renewed Mar. 29, 1952. Sulphonated Castor Oil for Textile Purposes. Class 6.

292,823. DISCOLITE. Registered Mar. 29, 1932. Royce Chemical Company, Carlton Hill, N. J., a corporation of New Jersey. Renewed Mar. 29, 1952. Hydrosulphides for Textile Purposes. Class 6.

292,825. REPRESENTATION OF WINGS AND STAR. Registered Mar. 29, 1932. Elizabeth Arden, Inc. Renewed Mar. 29, 1952, to Elizabeth Arden Sales Corporation, New York, N. Y., a corporation of Delaware. Lipsticks. Class 51.

292,890. SURRENDER. Registered Mar. 29, 1932. Guy T. Gibson, Inc. Renewed Mar. 29, 1952, to Parfums Ciro, Inc., New York, N. Y., a corporation of Delaware. Perfume. Class 51.

293,101. YOUTHLASTIC. Registered Apr. 12, 1932. The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut. Renewed Apr. 12, 1952. Knitted, Netted, and Textile Fabrics Made of Rubber Thread Covered With Cotton, Silk, Etc. Class 42.

293,657. FUN-FLOTE. Registered May 3, 1932. Hodgman Rubber Company, Framingham, Mass., a corporation of Massachusetts. Renewed May 3, 1952. Pneumatic Mattresses. Class 32.

293,812. SUN FLAVOR. Registered May 3, 1932. P. M. Resetar, Watsonville, Calif. Renewed May 3, 1952. Fresh Berries, Fresh Deciduous Fruits, Fresh Vegetables, and Dried Fruits. Class 46.

293,850. "KINETIC" AND DIAMOND-SHAPED DESIGN. Registered May 10, 1932. Kinetic Chemicals, Inc. Renewed May 10, 1952, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Fluorinated Hydrocarbons Used as Refrigerants, Propellants, and Fire Extinguishing Preparations. Class 6.

293,891. PURECO. Registered May 10, 1932. Pure Carbonic Company of America. Renewed May 10, 1952, to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York. Liquid Carbon Dioxide. Class 6.

293,917. ZERONE. Registered May 10, 1932. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Renewed May 10, 1952. Synthetic Methanol Used as an Anti-Freeze Agent in Automotive Vehicles and Heating Systems. Class 6.

294,035. "K.D.S." AND DESIGN. Registered May 17, 1932. Kresge Department Store Corporation. Renewed May 17, 1952, to Kresge-Newark, Inc., Newark, N. J., a corporation of New Jersey. Beads of Glass, Agate, Coral, Turquoise, Base Metal, Amber, and Celluloid; Bias Bindings, Etc. Class 40.

294,046. FLAGSTAFF. Registered May 17, 1932. Greenspan Brothers Company. Renewed May 17, 1952, to Flagstaff Foods, Perth Amboy, N. J., a corporation of New Jersey. Canned Vegetables, Canned Fruit, Canned Fish, Etc. Class 46.

294,183. "IR" ETC. Registered May 24, 1932. Ingersoll-Rand Company, New York, N. Y. Renewed May 24, 1952, to Ingersoll-Rand Company, New York, N. Y., and Phillipsburg, N. J., a corporation of New Jersey. Motor Pumps. Class 23.

294,189. ATLAS IMPERIAL. Registered May 24, 1932. Atlas Imperial Diesel Engine Co., Oakland, Calif. Renewed May 24, 1952, to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania. Internal Combustion Engines of the Diesel Type. Class 23.

294,317. DURACROME. Registered May 24, 1932. The Arrow-Hart & Hegeman Electric Company, Hartford, Conn., a corporation of Connecticut. Renewed May 24, 1952. Switches, Plates, Receptacles, and Connecting Devices for Electrical Wiring Devices. Class 21.

294,404. "ALLIED CLOTHIERS" AND DRAWING. Registered May 24, 1932. N. W. Buyers & Jobbers, Incorporated, St. Paul, Minn., a corporation of Minnesota. Renewed May 24, 1952. Men's and Boys' Outer Clothing, as Overcoats, Suits, Coats, Etc. Class 39.

294,535. TRICLENE. Registered May 31, 1932. The Roessler & Hasslacher Chemical Company, Inc., New York, N. Y. Renewed May 31, 1952, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Dry Cleaning Fluid. Class 52.

294,547. ERIN MAID. Registered May 31, 1932. Massachusetts Knitting Mills, Jamaica Plain, Mass. Renewed May 31, 1952, to M. K. M. Hosiery Mills, Inc., Boston, Mass., a corporation of Massachusetts. Hosiery. Class 39.

294,610. VATROLITE. Registered June 7, 1932. Royce Chemical Company, Carlton Hill, N. J., a corporation of New Jersey. Renewed June 7, 1952. Hydrosulphite for Textile Purposes. Class 6.

294,693. FARMASOL. Registered June 7, 1932. Lysol, Incorporated. Renewed June 7, 1952, to Lehn & Fink Products Corporation, Bloomfield, N. J., a corporation of Delaware. Saponified Cresol Solution Specifically Prepared for Live Stock, Stock Yard, Etc. Class 52.

294,727. HYACINTH. Registered June 7, 1932. Knothe Brothers Co. Inc., New York, N. Y., a corporation of New York. Renewed June 7, 1952. Men's Pajamas, Men's Underwear, Men's Dress and Negligee Shirts, Mufflers and Dressing Gowns. Class 39.

295,032. HONEYSUCKLE. Registered June 14, 1932. Ideal Novelty & Toy Co., Brooklyn, N. Y. Renewed June 14, 1952, to Ideal Toy Corporation, Hollis, Long Island, N. Y., a corporation of New York. Dolls. Class 22.

295,153. JRA. Registered June 21, 1932. Compania De Jarcia De Matanzas S. A., Matanzas, Cuba. Renewed June 21, 1952, to Henequenera De Juraguá, S.A., Habana, Cuba, a corporation organized under the laws of Cuba. Sisal Fibre. Class 1.

295,154. MTA. Registered June 21, 1932. Compania De Jarcia De Matanzas, S. A., Matanzas, Cuba. Renewed June 21, 1952, to Agricola del Yumurí, S. A., Habana, Cuba, a corporation organized under the laws of Cuba. Sisal Fibre. Class 1.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

553,135. TERRAMICINA. Registered Jan. 8, 1952. Chas. Pfizer & Co., Inc., Brooklyn, N. Y. Antibiotic Preparation. Class 18. Corrected as follows: In the certificate, line 4, for "Chas. Pfizer & Co., a corporation of Delaware" read *Chas. Pfizer & Co., Inc., a corporation of Delaware*; line 14, for "Chas. Pfizer & Co." read *Chas. Pfizer & Co., Inc.*; in the heading to the statement, line 2, for "Chas. Pfizer & Co." read *Chas. Pfizer & Co., Inc.*

553,339. LINE FOLD. Registered Jan. 15, 1952. New Era Shirt Company, St. Louis, Mo. Men's Shirts With Collars Attached. Class 39. Corrected as follows: In the statement, column 2, line 13, for the registration number "376,754" read *376,745*.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Reg. No. 83,911. Registered Mar. 26, 1912. A. C. Lawrence Leather Company, Boston, Mass., a corporation of Maine. Republished by registrant, present address Peabody, Mass.

DURO

For Finished Leather.
Claims use since June 1901.

CLASS 15

OILS AND GREASES

Reg. No. 132,647. Registered June 29, 1920. H. Earl Clack Company, Havre, Mont., a corporation of Montana. Republished by registrant.

HI-LITE

For Kerosene.
Claims use since Apr. 1, 1919.

Reg. No. 135,415. Registered Oct. 12, 1920. H. Earl Clack Company, Havre, Mont., a corporation of Montana. Republished by registrant.

HI-POWER

No claim is made to the words "High Power."
For Gasoline.
Claims use since Apr. 1, 1919.

Reg. No. 141,897. Registered May 3, 1921. H. Earl Clack Company, Havre, Mont., a corporation of Montana. Republished by registrant.

HI-TEST HECCO

For Motor Oils.
Claims use since Apr. 1, 1919.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 291,019. Registered Jan. 26, 1932. Art-Tex Adhesive Products, Inc., New York, N. Y., a corporation of New York. Republished by registrant, present address Brooklyn, N. Y.

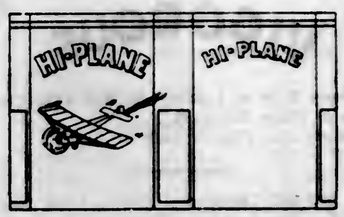
ART-TEX

For Wall Texture Preparation in the Nature of Plastic Paint, and a Colorless Glazing Liquid Which May Be Tinted With Colors Ground in Oil.
Claims use since April 1930.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 291,854. Registered Feb. 23, 1932. Larus & Brother Company, Incorporated, Richmond, Va., a corporation of Virginia. Republished by registrant.



The representation of the carton per se is disclaimed.
For Smoking Tobacco and Cigarettes.
Claims use since Oct. 3, 1931.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 401,202. Registered Apr. 27, 1943. Chicago Pharmacal Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

VAGISERT

For Vaginal Suppository.
Claims use since Nov. 4, 1942.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 290,590. Registered Jan. 12, 1932. Western Clock Company, Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

BABY

For Electrical Motors.
Claims use since Apr. 1, 1931.

Reg. No. 290,591. Registered Jan. 12, 1932. Western Clock Company, Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

BABY BEN

For Electrical Motors.
Claims use since Apr. 1, 1931.

Reg. No. 290,592. Registered Jan. 12, 1932. Western Clock Company, Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

BEN

For Electrical Motors.
Claims use since Apr. 1, 1931.

Reg. No. 290,594. Registered Jan. 12, 1932. Western Clock Company, Peru, Ill. Republished by General Time Corporation, New York, N. Y., a corporation of Delaware.

BIG BEN

For Electrical Motors.
Claims use since Apr. 1, 1931.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 337,375. Registered Aug. 11, 1936. Bresduck, Inc., New York, N. Y. Republished by Pearlduck, Inc., New York, N. Y., a corporation of New York.

DEUTSCH

For All Manner and Kinds of Razors, Shears, Scissors, Knives of Base Metal, and Hair Clippers.
Claims use since Oct. 2, 1930.

Reg. No. 343,665. Registered Mar. 2, 1937. Bresduck, Inc., New York, N. Y. Republished by Pearlduck, Inc., New York, N. Y., a corporation of New York.

BB
BEAU BRUMMEL

For All Manner and Kinds of Razors, Shears, Scissors, Knives of Base Metal, and Hair Clippers.
Claims use since May 3, 1930.

Reg. No. 369,417. Registered July 25, 1939. Bresduck, Inc., New York, N. Y. Republished by Pearlduck, Inc., New York, N. Y., a corporation of New York.

BLACK ◆ DIAMOND

For All Manner and Kinds of Barbers' Razors and Shears.
Claims use since Oct. 1, 1927.

Reg. No. 438,271. Registered Apr. 13, 1948. Pearlduck, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

SKIPPER

For Razors, Scissors, Shears, and Knives of Base Metal Not Including Surgical Scissors or Other Surgical Instruments.
Claims use since Feb. 12, 1947.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Reg. No. 353,190. Registered Dec. 28, 1937. Barlow & Seelig Mfg. Co., Ripon, Wis. Republished by Speed Queen Corporation, Ripon, Wis., a corporation of Delaware.

SPEED QUEEN

For Laundry Washing Machines, Laundry Wringers and Water Extraction Devices, and Ironing Machines.
Claims use since Feb. 7, 1930.

Reg. No. 368,725. Registered June 27, 1939. Barlow & Seelig Mfg. Co., Ripon, Wis. Republished by Speed Queen Corporation, Ripon, Wis., a corporation of Delaware.

IRONETTE

For Ironing Machines.
Claims use since July 1929.

CLASS 37

PAPER AND STATIONERY

Reg. No. 372,446. Registered Oct. 31, 1939. The Fair, Chicago, Ill., a corporation of Illinois. Republished by registrant.

FAIRCREST

For Writing Paper and Envelopes.
Claims use since Sept. 14, 1932.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 439,352. Registered June 22, 1948. Roy Comart, doing business as Seat Saver Company, New York, N. Y.

SEATSAVER

Republished by registrant.
For Printed Display Cards, Sold as Such.
Claims use since Apr. 11, 1946.

CLASS 39

CLOTHING

Reg. No. 289,642. Registered Dec. 1, 1931. Gallenkamp Stores Co., San Francisco, Calif., a corporation of California. Republished by registrant, present address Los Angeles, Calif.

VIGOROUS

For Shoes Made of Leather, Rubber, Fabric, and Combinations of Those Materials.
Claims use since Feb. 15, 1931.

Reg. No. 290,495. Registered Jan. 5, 1932. Gallenkamp Stores Co., San Francisco, Calif., a corporation of California. Republished by registrant, present address Los Angeles, Calif.

GallenKamp'S

For Footwear—Namely, Shoes, Boots, Slippers, Arctics (Also Known as Galoshes), Rubbers, and Hosiery.
Claims use since about July 1, 1922.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 21,940. Registered Nov. 8, 1892. Minkota Milling Company, Duluth, Minn. Republished by Standard Milling Company, Chicago, Ill., a corporation of Illinois.

MINKOTA.

For Wheat Flour.
Claims use since Sept. 15, 1892.

Reg. No. 196,131. Registered Mar. 10, 1925. Mayflower Fruit Association, Exeter, Calif., a corporation of California. Republished by registrant.

Mayflower

For Fresh Grapes.
Claims use since July 21, 1924.

Reg. No. 232,032. Registered Aug. 30, 1927. Mayflower Fruit Association, Exeter, Calif., a corporation of California. Republished by registrant.

Pilgrim

The drawing is lined for red.
For Fresh Deciduous Fruits—Namely, Apples, Peaches, and Plums; and Fresh Pomegranates, Fresh Grapes, and Fresh Figs; Fresh Citrous Fruits—Namely, Oranges, Lemons, and Grapefruit.
Claims use since Sept. 1, 1926.

Reg. No. 233,430. Registered Sept. 27, 1927. Mayflower Fruit Association, Exeter, Calif., a corporation of California. Republished by registrant.

PURITAN

For Fresh Deciduous Fruits—Namely, Apples, Peaches, and Plums; Fresh Figs, Fresh Pomegranates, Fresh Grapes, and Olives.
Claims use since Sept. 18, 1924.

Reg. No. 268,630. Registered Mar. 18, 1930. Ambrosius Umberto Terrabusi, doing business as Establecimiento Modelo Terrabusi, Buenos Aires, Argentina. Republished by S. A. Establecimiento Modelo Terrabusi, Buenos Aires, Argentina, a corporation organized under the laws of Argentina.

Bay Biscuits

The word "Biscuits" is disclaimed apart from the mark as shown.
For Bakery Products—Namely, Biscuits.
Claims use since Apr. 30, 1923.

Reg. No. 284,818. Registered July 7, 1931. Joseph E. Rahal, doing business as The Rahal Packing Co. Inc., Cleveland, Ohio. Republished by Sunshine Packing Corporation of Pennsylvania, North East, Pa., a corporation of Pennsylvania.



The words "Fresh Cold Pack Fruit" are disclaimed apart from the mark as shown.
For Canned Fruits.
Claims use since the middle of June 1928.

Reg. No. 320,642. Registered Jan. 1, 1935. P. & S. Plum, Ltd., Copenhagen, Denmark, a corporation of Denmark. Republished by registrant.

PLUMROSE

For Cheese, Condensed Full-Cream, Evaporated and Unsweetened Milk, Cream, and Cooked Ham.
Claims use since 1932.

Reg. No. 341,567. Registered Dec. 15, 1936. Henry J. Hirschenfeld, doing business as The Hick'ry Pit, Oakland, Calif. Republished by Hick'ry Pit Enterprises, Inc., Oakland, Calif., a corporation of California.

"Hick'ry Pit"

For Prepared and Barbecued Spareribs.
Claims use since Apr. 13, 1933.

Reg. No. 368,868. Registered July 4, 1939. Cotton Products Company, Inc., doing business as Opelousas Oil Refinery and also as Opelousas Oil Mill, Opelousas, La., a corporation of Louisiana. Republished by registrant.

"LOU-ANA"

For Cottonseed Salad Oil and Shortening.
Claims use since Oct. 8, 1938.

Reg. No. 385,128. Registered Feb. 18, 1941. Standard Milling Company, New York, N. Y. Republished by Standard Milling Company, Chicago, Ill., a corporation of Illinois.

HAZALL

For Milled Wheat Product in the Nature of Flour and for the Purpose for Which Flour Is Used.
Claims use since July 12, 1940.

REISSUES

APRIL 8, 1952

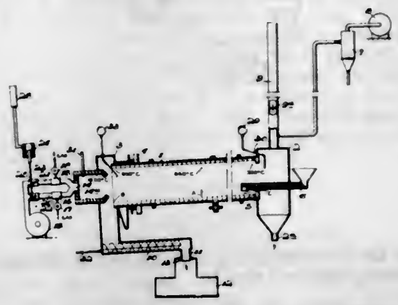
23,475

PROCESS OF TREATING ZINC OXIDES

John Henry Calbeck, Columbus, Ohio, assignor to American Zinc, Lead & Smelting Company, St. Louis, Mo., a corporation of Maine

Original No. 2,416,044, dated February 18, 1947, Serial No. 477,305, February 26, 1943. Application for reissue December 19, 1951, Serial No. 262,385

12 Claims. (Cl. 23—148)



4. A process of refining zinc oxide which consists in heating crude pigment zinc oxide in a clean reducing atmosphere at a temperature of not less than 650° C. and not more than 950° C., said atmosphere passing over the oxide at a velocity varying from 50 to 200 feet per minute.

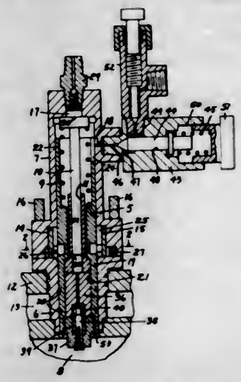
23,476

AUTOMATIC FUEL INJECTOR

Louis O. French, Milwaukee, Wis.

Original No. 2,516,690, dated July 25, 1950, Serial No. 592,675, May 8, 1945. Application for reissue December 31, 1951, Serial No. 264,331.

16 Claims. (Cl. 123—139)



1. In a fuel injector of the character described, the combination of an operating piston movable in response to gases under compression, a casing in which said piston works including a closed end cylinder having differential bores and a relief port in one of said bores, a checking piston carried by said operating piston and working in the bore having said relief port and in contact with a checking fluid therein and provided with an inclined control edge cooperating with said port to vary the amount of checking fluid within said bore to variably limit the movement of said pistons, means for angularly shifting said checking piston relative to said port comprising a sleeve rotatively mounted in another of said bores and having a slidably keyed connection with said checking piston, a fuel pump including a bore in said operating piston and a pump plunger working in said bore to discharge fuel therefrom on the movement of said operating piston by said gases and held in engagement with the closed end of said cylinder, a sprayer including a pump discharge valve mounted in said operating piston, means for admitting a checking fluid into the bore of said cylinder having said relief port, and means for admitting fuel to said pump.

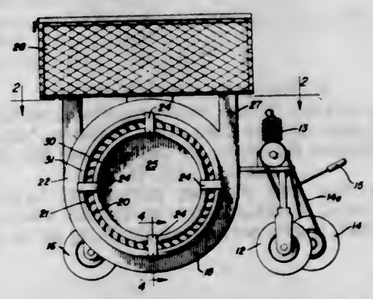
23,477

PNEUMATIC COTTON HARVESTER

Raymond Henry, Moline, Ill.

Original No. 2,531,042, dated November 21, 1950, Serial No. 114,577, September 8, 1949. Application for reissue May 26, 1951, Serial No. 228,481

13 Claims. (Cl. 56—12)



1. A machine for picking cotton comprising, in combination, transporting means, a frame supported thereby, a platform on said frame, a plurality of power units mounted on said platform, a plurality of casings supported by said platform, a shaft extending from each of said power units into a casing, there being but one power unit to a casing, and a high speed rotary fan mounted coaxially on each shaft, said fans having outwardly extending blades around their outer parts, said casings having ring-shaped openings through one flat wall thereof concentrically placed with relation to the fans, so that, as the fans rotate, air is drawn into the casings to replace the air forced out by the blades of the fans, said casings having peripheral channels around the fans for reception of the air and cotton driven outwardly by the fans, the air being forced outwardly by the fans at such a velocity that the air entering the ring-shaped openings will carry along with it the cotton on the plants in a field.

23,478
PROCESS FOR PRODUCING ANTIHALATION PHOTOGRAPHIC ARTICLE

André Emile Van Dormael, Heverlee-Louvain, and Laurent Aloys Van der Auwera, Mortsel-Antwerp, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium

No Drawing. Original No. 2,529,890, dated November 14, 1950, Serial No. 775,741, September 23, 1947. Application for reissue August 7, 1951, Serial No. 240,815. In Great Britain September 27, 1946

1 Claim. (Cl. 117—34)

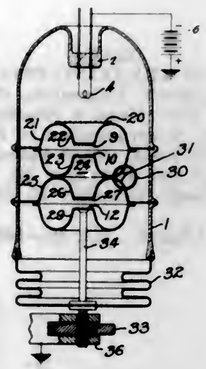
A process for the manufacture of an antihalation layer on a photographic glass plate, which comprises spreading upon the glass plate a mixture of furfurylidene-4-methyl-3-phenyl-1-pyrazolone-5 dissolved in alcohol, *aniline in alcohol*, and methylene-disalicylic acid in alcohol.

23,479
ELECTRICAL TRANSLATING SYSTEM AND METHOD

Russell H. Varian, Stanford Village, Calif., assignor to the Board of Trustees of The Leland Stanford Junior University, Stanford University, Calif., a corporation of California

Original No. 2,242,275, dated May 20, 1941, Serial No. 168,355, October 11, 1937. Application for reissue June 6, 1950, Serial No. 166,480

31 Claims. (Cl. 315—6)



6. Apparatus of the character described having, in combination, means for creating an electron stream having the electrons thereof concentrated in groups, a space-resonant device, and means for absorbing the energy of the groups in the space-resonant device.

PLANT PATENTS

GRANTED APRIL 8, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,081
HYBRID TEA ROSE PLANT

Esther Gladys Fisher, Woburn, Mass., assignor to Arnold-Fisher Company, Woburn, Mass.

Application February 15, 1950, Serial No. 144,215

1 Claim. (Cl. 47—61)

The new and distinct variety of hybrid tea rose plant, substantially as herein shown and described, characterized particularly by its adaptability to garden culture; its compact growth of Talisman type in appearance but with much greater strength and vigor; its continuous blooming habit; its strong, wiry and long flower stems; its disease resistance; and its flowers in varying combination of shades of salmon, yellow-orange and pink, lightening considerably when the flower ages.

PATENTS

GRANTED APRIL 8, 1952

2,591,663
METHOD OF CLEANING FURS

Nathan Root, Grand Rapids, Mich.

No Drawing. Application May 27, 1948, Serial No. 29,660

3 Claims. (Cl. 8—142)

1. The method of cleaning a fur garment comprising the steps of introducing a fur garment and a plurality of small flexible bags into a chamber, each of said flexible bags consisting essentially of a fluid-pervious, relatively soft textile fabric cover having confined therein a comminuted and fluid-absorptive solid material which is partially saturated with a fur-cleaning fluid, said fluid contained in said bags being the only fluid present in the chamber during said cleaning operation, agitating said garment and bags in intimate contact within said chamber so that small quantities of fur-cleaning fluid are expelled from the bags, and removing said garment from said chamber at the completion of the cleaning agitation.

2,591,664
PURIFICATION PROCESS

Joseph J. Wehrle, Altoona, Pa., and Oliver L. Niehouse and Jerome G. Burtle, Alton, Ill., assignors to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware

No Drawing. Application February 23, 1946, Serial No. 649,738

4 Claims. (Cl. 23—312)

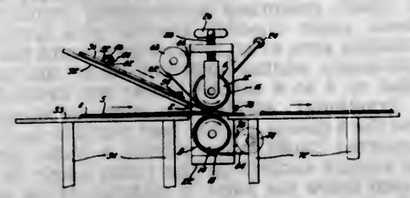
1. In the manufacture of alkali metal azides wherein an alkali metal amide is reacted with nitrous oxide to produce a reaction product containing alkali metal azide contaminated with reaction by-products, the process of purification which comprises extracting the reaction product with anhydrous liquid ammonia, separating the extract from the undissolved reaction product, and thereafter removing the ammonia from the azide solute.

2,591,665
PROCESS OF LAMINATING PHOTOGRAPHIC COLOR FILM TO GLASS

Waldemar A. Ayres, Kew Gardens Hills, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application June 24, 1947, Serial No. 756,741

2 Claims. (Cl. 154—128)



2. The process of producing a dimensionally stable color-sensitive photographic plate adapted for use in the production of three dimensional pictures of the type employing a stereo screen for producing the stereoscopic effect separate from the photographic record comprising the steps of, coating one side of a cellulose acetate film with a plurality of subtractive type photosensitive color-recording layers, coating the opposite side of said cellulose acetate film with gelatin dispersed in water, removing said water and hardening said gelatin on said cellulose acetate film whereby to provide a dry gelatin-coated film, coating one side of a glass plate with an emulsion-type adhesive comprising casein and latex in a water vehicle which sets upon loss of the water vehicle to cause an inversion of the emulsion from an oil-in-water type emulsion to a water-in-oil type emulsion, covering the one side of said cellulose acetate film with a water-absorbent sheet and covering the other side of said glass plate with a water absorbent sheet, progressively joining the adhesive-coated side of said glass plate with the gelatin-coated side of said cellulose acetate film under a predetermined pressure to thereby displace a portion of the water vehicle of said adhesive, whereby said displaced water vehicle will be absorbed by the gelatin on the surface of said film and also at the periphery of said film by said water-absorbent sheets, removing the water-absorbent sheets from said film and plate, and finally drying the joined film and plate at room temperature to thereby remove the remainder of the water-vehicle from said adhesive.

2,591,666
INTERFEROMETER GAUGE

Walter H. Barkas, Menlo Park, and Willard E. Buck, Inyokern, Calif.

Application October 20, 1948, Serial No. 55,522

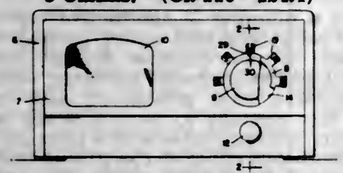
7 Claims. (Cl. 88—14)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for measuring minute displacement, comprising a transparent member having a concavity in one face thereof, a diaphragm having a reflecting surface positioned against said face over said concavity, a prism mounted to said transparent member opposite said face, said prism having one of its faces disposed at an acute angle with respect to said face, a source of light disposed to direct a beam against said prism face and thence generally normally against said diaphragm surface, and means for observing the beam after reflection from said surface.

2,591,667
ILLUMINATED TUNING DIAL
Gerald J. Barry, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application April 19, 1947, Serial No. 742,721
5 Claims. (Cl. 116—124.4)

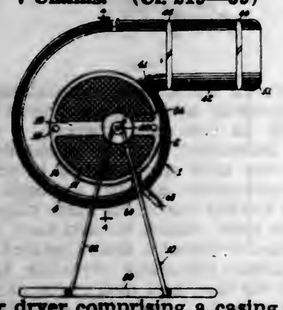


1. A radio tuning indicator comprising a dial, said dial including a light transmitting member and numerals formed of light transmitting material projecting from one edge of said member and adapted to be illuminated by light impinging on said member, a movable, relatively opaque member disposed adjacent said light transmitting member in shielding relation thereto, said opaque member having formed therein a light transmitting portion in alignment with said light transmitting member for illumination by light impinging on said member, said light transmitting portion being aligned with selectable ones of said numerals in accordance with, and for indicating, a radio tuning adjustment and a source of light for illuminating said light transmitting member.

2,591,668
PREPARATION OF PHENYL SILICON TRICHLORIDE
Arthur J. Barry, Midland, Lee De Pree, Holland, and Donald E. Hook, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application November 4, 1947, Serial No. 784,076
3 Claims. (Cl. 260—448.2)

1. The method of producing phenyl trichlorosilane which comprises reacting benzene with trichlorosilane at a temperature above the critical temperature of benzene and at a pressure above the critical pressure of benzene whereby interaction is obtained with the production of phenyl silicon trichloride.

2,591,669
HAIR DRIER
William Harlan Bucknell, Norwalk, Conn., and Emil Miessmer, Yonkers, N. Y., assignors to Eastern Laboratories, Inc., New York, N. Y., a corporation of New York
Application July 30, 1949, Serial No. 107,686
7 Claims. (Cl. 219—39)

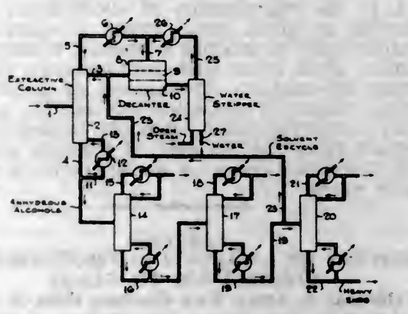


1. A hair dryer comprising a casing formed of a pair of sections abutting along a plane through the longitudinal axis thereof, motor actuated air impelling means positioned within the casing, an extension for the casing to provide a discharge outlet for the air impelling means, the extension having an annular groove depressed thereabout and protruding into the discharge outlet, a split ring adapted to be sprung into position in the groove to hold the sections together, and a thin heating element support having notched sides to fit the annular protuberance in the outlet to hold it into position therein.

2,591,670
PRODUCTION OF FILAMENTS FROM ACRYLONITRILE - 2 - METHALLYL ALCOHOL POLYMER
John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 23, 1948, Serial No. 16,624
3 Claims. (Cl. 18—54)

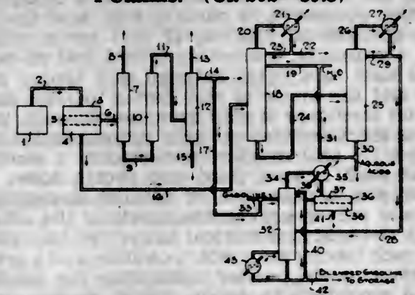
1. A solution adapted for the spinning of filamentary material composed of 10–25% of an acrylonitrile-2-methallyl alcohol copolymer containing 8% to 30% of methallyl alcohol and 90% to 75% of a volatile solvent selected from the group consisting of acetone and acetonitrile

2,591,671
DEHYDRATION OF ALCOHOLS BY EXTRACTIVE DISTILLATION
William E. Catterall, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 17, 1948, Serial No. 49,818
9 Claims. (Cl. 202—39.5)



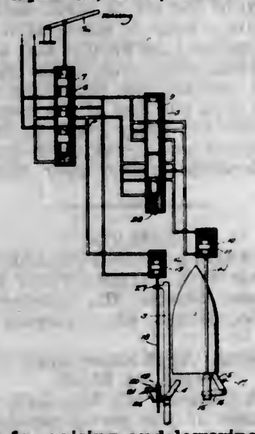
1. The method of dehydrating aqueous water miscible alcohol of 2 to 4 carbon atoms per molecule which comprises continuously feeding the aqueous water miscible alcohol to a fractional distillation zone at an intermediate point thereof, continuously adding sufficient water immiscible alcohol of 4 to 6 carbon atoms per molecule to the fractional distillation zone substantially above the aqueous alcohol feed point to maintain an internal liquid reflux having a water immiscible alcohol content in the range above 50 mol per cent below the point of addition of the water immiscible alcohol, distilling from said aqueous water miscible alcohol a vaporous mixture comprising water wherein the distilled vaporous mixture flows countercurrent to the water immiscible alcohol reflux, and withdrawing a dehydrated solution of the water miscible and the water immiscible alcohol from a lower portion of the fractional distillation zone.

2,591,672
DEHYDRATION OF ALCOHOLS BY GASOLINE EXTRACTIVE DISTILLATION
William E. Catterall, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 3, 1949, Serial No. 68,876
4 Claims. (Cl. 202—39.5)



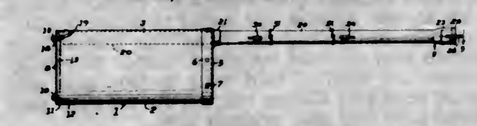
1. A method of simultaneously dehydrating aqueous alcohols containing 2 to 5 carbon atoms and preparing an alcohol-gasoline blend therefrom which comprises continuously feeding the aqueous alcohols to a fractional distillation zone at an intermediate point thereof, continuously adding hydrocarbon boiling in the gasoline boiling range of 100° F. to 430° F. as solvent to the fractional distillation zone at a point substantially above the aqueous alcohols feed point to maintain an internal liquid reflux having a gasoline hydrocarbon content in the range above 70 mol per cent below the point of addition of the gasoline hydrocarbon, distilling from said aqueous alcohols a vaporous mixture comprising water wherein the distilled vaporous mixture flows countercurrent to the gasoline hydrocarbon reflux, withdrawing a dehydrated mixture of gasoline and C_2 to C_5 alcohols as a lower sidestream from the fractional distillation zone, and withdrawing gasoline hydrocarbon substantially free of water and alcohols as bottoms from the fractional distillation zone.

2,591,673
REVERSIBLE RATCHET TYPE PROJECTILE HOIST
George A. Chadwick, Washington Grove, Md., and Philias H. Girouard, Washington, D. C.
Application March 28, 1939, Serial No. 264,624
7 Claims. (Cl. 198—225)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A hoist for raising and lowering projectiles or other articles, said hoist comprising a trunk for the passage of projectiles therethrough, a series of equally spaced pivoted pawls secured thereto, a reciprocating rack-bar carrying pivoted pawls spaced at intervals equal to those between said trunk pawls, whereby reciprocation of said rack-bar will cause each of said rack-bar pawls to pick up a projectile at the bottom of the stroke, elevate it through one interval during the upstroke and then deposit it on one of the trunk pawls while said rack-bar descends past said projectile on the downstroke, and fluid controlled means coordinated with the movements of said rack-bar and actuatable at will to move each of said rack-bar pawls out of the path of said projectiles during the first part of the upstroke of said rack-bar and to move each of said trunk pawls out of the path of said projectile during the first part of the downstroke of said rack-bar, whereby said hoist may be operated to lower projectiles.

2,591,674
FISHING ROD CARRYING CASE
William R. Chalker, Texarkana, Tex.
Application August 10, 1949, Serial No. 109,560
1 Claim. (Cl. 206—16)



A fishing rod case having a rear open end, a drop-door closing said rear end, a rectangular bail having spaced ends pivoted in the case, an exterior perforated ear on the door pivotally mounted on the bail, a spring blade attached at one end to the inner face of the door, a latching head mounted on the free end of the blade and projecting through a hole in the door, and a resilient bail pivoted on the case for snapping co-action with an exterior groove on said head.

2,591,675
ORGANOTIN COMPOUNDS AND COMPOSITIONS CONTAINING THE SAME
James M. Church, Tenafly, Ernest W. Johnson, Mountainside, and Hugh E. Ramsden, New Brunswick, N. J., assignors to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 31, 1949, Serial No. 84,756
10 Claims. (Cl. 260—45.75)

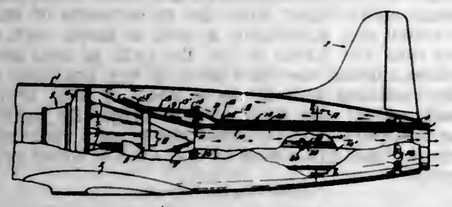
1. An organotin compound having the formula $(R_1R_2SnO)_x(OCR_3R_4)$, in which R_1, R_2, R_3 and R_4 are radicals selected from the class consisting of alkyl, alkenyl, aryl, and heterocyclic radicals, and x is a number varying between 1 and 6.

6. An organic, halogen-containing material having incorporated therein from about 0.1 to about 10% by weight of the compound of claim 1.

2,591,676
EJECTOR COOLING SHROUD FOR USE ON THE EXHAUST SYSTEMS OF TURBOJET AIRCRAFT ENGINES
Harry H. Clayton, Jr., Rosamond, Calif.
Application December 17, 1948, Serial No. 65,954
2 Claims. (Cl. 60—35.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

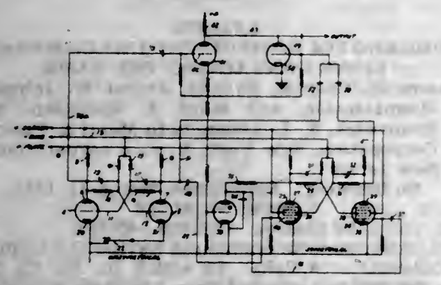
1. In a jet-propelled aircraft, an elongated hollow body section extending in a fore-and-aft di-

rection to enclose a turbo-jet engine and having its aft end open, means including said engine for closing the body section at a point adjacent to its forward end, an exhaust pipe extending from said engine centrally of said body section and opening into the atmosphere through the open aft end of said body section, a shroud pipe surrounding said exhaust pipe and spaced therefrom to provide an annular air space for the passage of cooling air, means providing a plurality of circumferentially arranged air inlet



openings in the wall of said hollow body section adjacent to the aft end thereof, said shroud pipe extending beyond the aft end of said exhaust pipe whereby the flow of exhaust gases from said exhaust pipe effects an ejector action on air in said annular air space to cause continuous flow of cooling air from the atmosphere through said air inlet openings, thence forwardly between the wall of said body section and said shroud pipe and thence rearwardly between said shroud pipe and said exhaust pipe.

2,591,677
PULSE GROUP SYSTEM OF COMMUNICATIONS
Claud E. Cleeton, Washington, D. C.
Application October 11, 1946, Serial No. 360,806
37 Claims. (Cl. 250—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A pulse group system of communication, comprising an unsymmetrical relay including a first and a second tube each having an anode, a cathode and a grid; a common anode supply, a respective anode resistor connecting each said anode to said supply, grid returns including a respective grid resistor connected to each said grid, the said resistor connected to the grid of said second tube being at least substantially twice the value of the resistor connected to the grid of said first tube, a resistor and a capacitor in parallel connecting the grid of each tube to the anode of the other, a key connected between the cathode of said second tube and ground to control the current path through said unsymmetrical relay; a symmetrical relay including a third and a fourth tube each having an anode, a cathode, and at least two grids, respective anode resistors connecting the anodes of said third and fourth tubes to said anode supply, a capacitor connecting the anode of said second tube to trip said symmetrical relay on closing of said key to a first grid of said third tube; a gaseous discharge device having an anode, a cathode and a grid, a timing resistor connecting the anode of said device to the anode of said third tube, a charging capacitor connected in parallel with said device to be charged on tripping of said symmetrical relay, a capacitor connecting a first grid of said fourth tube to a point between said timing resistor and the anode of said device to reset said relay on discharge of said capacitor through the gaseous discharge device; grid returns including a respective grid resistor connected to a second grid of each of said third and fourth tubes, a resistor and a capacitor in parallel connecting each said second grid to the anode of the other tube in the said symmetrical relay; two amplifier tubes each having an anode, a cathode and a grid, a common anode resistor connecting the anodes of said amplifiers to anode supply, means connecting the cathodes of said amplifiers in parallel, a capacitor connecting the grid of one said amplifier to the anode of said first tube to deliver a first pulse on closing said key, a respective capacitor connecting the grid of the other amplifier to the anode of said fourth tube to deliver a second pulse, when said symmetrical relay is reset and to the anode of said second tube to deliver a pulse when the key is released, and a common output connected to the anodes of both said amplifiers.

2,591,678
DENTURE LOCATING MECHANISM
Donald V. Cleman, Bremerton, Wash.
Application January 29, 1947, Serial No. 725,045
15 Claims. (Cl. 32—2)



1. In a set of upper and lower teeth including at least one denture, guiding mechanism comprising cooperating sets of track elements and track-engaging elements incorporated in the distal portion of the set of teeth, said track elements defining a path of substantial mesiodistal extent and inclined forwardly and downwardly, for engagement with said track-engaging elements during upward and retracting mandibular movement from a position of the lower teeth out of contact with the upper teeth to exert a force urging the upper and lower teeth toward registering relationship during their closing movement.

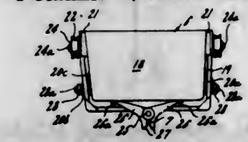
2,591,679
AMINOALKANOYL PHENOTHIAZINE DERIVATIVES AND THE PRODUCTION THEREOF
John W. Cusic, Skokie, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois
No Drawing. Application April 21, 1948, Serial No. 22,505
13 Claims. (Cl. 260—243)

1. A member of the group consisting of an aminoalkanoylphenothiazine derivative and salts thereof, said aminoalkanoylphenothiazine derivative having the formula

Phth—CO—Alk—B

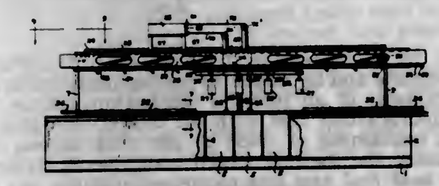
wherein Phth is a member of the group consisting of 10-phenothiazine and 10-phenothiazine-5-oxide radicals, Alk is a lower alkylene radical and B is an amino radical selected from the group consisting of mono(lower alkyl)amino, di(lower alkyl)amino, 1-piperidino, 1-pyrrolidino and 4-morpholino radicals.

2,591,680
AUTOMATIC CABLE GRIPPER FOR SUSPENDED VEHICLES
Vsevolod Dachkevitch, Neuilly, France
Application August 12, 1947, Serial No. 768,226
In France June 8, 1945
4 Claims. (Cl. 104—208)



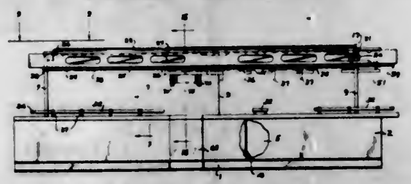
1. An aerial transportation system comprising, in combination, a suspended track, a truck having wheels in engagement with said track, an endless traction cable, clamping means on said truck adapted to engage said cable, thereby imparting motion to said truck, said truck comprising a frame and a body displaceable relative to said frame between an upper and a lower portion, said clamping means comprising a pair of relatively movable jaws operatively connected with said frame and with said body so as to be open in said upper position and closed in said lower position of said body relative to said frame, the weight of said body thus tending to keep said jaws closed about said traction cable, and operating means for disengaging said jaws from said traction cable by raising said body relative to said frame.

2,591,681
WORK-IMMERSION MACHINE WITH SELECTED DELAYED IMMERSION
John V. Davis, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
Application March 8, 1950, Serial No. 148,435
6 Claims. (Cl. 134—77)



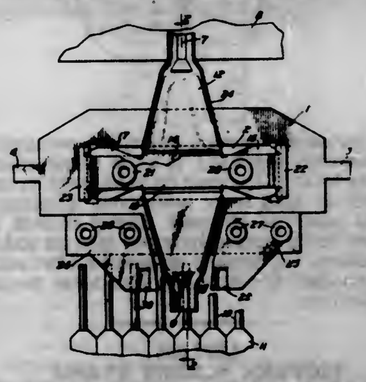
1. In a work-immersion apparatus, a series of bath receptacles, an alined series of spaced rail sections fixedly supported over said receptacles, a chassis movably mounted over said receptacles, timed means for moving said chassis up and down over said receptacles, a series of spaced rail sections carried by said chassis and adapted to fit in the spaces between the first named sections and contiguously therewith, in the lower position of the chassis, and a chassis section movable independently of said chassis, an independent rail section carried by said chassis section and positioned to aline contiguously with a rail section carried by said chassis, and work-advancing means carried by said chassis and chassis section.

2,591,682
WORK-IMMERSION MACHINE WITH VERTICALLY AND LATERALLY MOVABLE RAIL SECTION
John V. Davis, Detroit, Mich., assignor to The Udylite Corporation, Detroit, Mich., a corporation of Delaware
Application March 8, 1950, Serial No. 148,436
6 Claims. (Cl. 134—77)



1. In a work-immersion apparatus, a series of bath receptacles, an alined series of spaced rail sections fixedly supported over said receptacles, a chassis movably mounted over said receptacles, timer-controlled means for moving said chassis up and down over said receptacles, a series of spaced rail sections carried by said chassis and adapted to fit in the spaces between the first named sections, in the lower position of the chassis, a laterally slidable carriage carried by said chassis, one of the second named spaced rail sections being mounted on said carriage, timer-controlled means for projecting and retracting said carriage while in the raised position, an alternative receptacle laterally opposite one of the first named receptacles, and positioned to receive work suspended from the last named rail section, and work-advancing means carried by said chassis for moving work on said rail sections.

2,591,683
SELECTOR SWITCH BRUSH
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 25, 1948, Serial No. 35,201
14 Claims. (Cl. 200—171)



1. In a brush unit for selector switches having feeder strips and terminal pins, a spacer of insulating material, a brush wiper on each side of said spacer and fastened thereto, each wiper having a first and a second contact making end formed to engage a feeder strip and the terminal pins respectively, and metal guiding means fas-

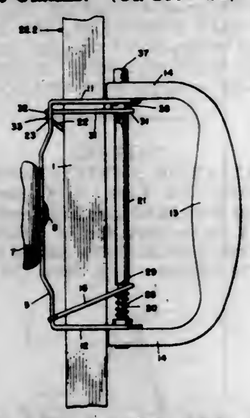
tened to the spacer and electrically insulated from said brush wipers, said metal guiding means projecting into cooperative relationship with the terminal pins.

2,591,684
ELECTRICAL CONTACT
Gerald Deakin, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application December 23, 1948, Serial No. 67,030
8 Claims. (Cl. 200—166)



1. A combined contact spring and backstop assembly, comprising a mounting pin and a flexible contact carrying spring secured to said pin in such position that said pin acts as a backstop for said contact spring.

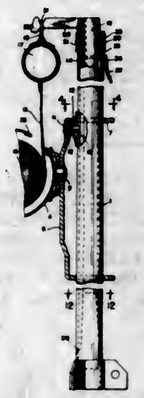
2,591,685
SLIDING BRACKET LOCK
Leo J. Du Mais and Frank J. Prokop, Chicago, Ill., assignors to Da-Lite Screen Company, Inc., a corporation of Illinois
Application December 4, 1950, Serial No. 199,133
16 Claims. (Cl. 160—24)



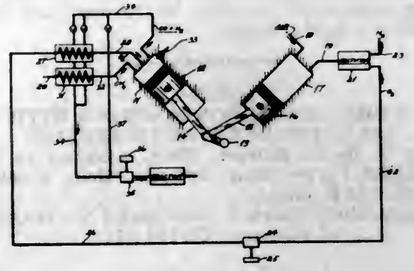
1. A device of the class described, comprising a rod, a bracket mounted to slide along said rod, a nipping lever fulcrumed on said bracket, spaced shoulders on said lever selectively gripping and releasing said rod through tilting of said lever, said lever being normally urged into its rod gripping position, and means on said bracket adapted to be actuated for shifting said lever to its released position.

2,591,686
PICTURE SCREEN STAND
Leo J. Du Mais and Frank J. Prokop, Chicago, Ill., assignors to Da-Lite Screen Company, Inc., Chicago, Ill., a corporation of Illinois
Application March 14, 1951, Serial No. 215,498
5 Claims. (Cl. 160—24)

1. A portable screen stand, comprising a supporting standard, an extension rod telescoping with said standard, clamping means on said standard normally urged into frictional engagement with said extension rod for holding same in any position of extension, and actuating means for holding said clamping means released from its engaged position.

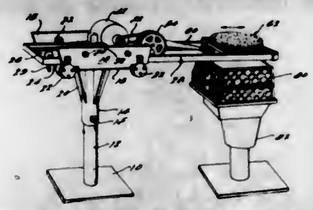


2,591,687
PROCESS FOR THE MANUFACTURE OF SYNTHESIS GAS
Du Bois Eastman, Scarsdale, Everett M. Barber, Wappinger Falls, N. Y., and Blake Reynolds, Montclair, N. J., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application January 17, 1947, Serial No. 722,742
5 Claims. (Cl. 48—196)



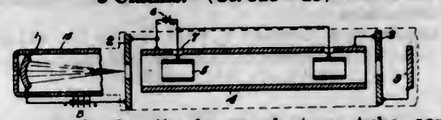
1. In a process for the production of carbon monoxide and hydrogen by partial combustion in a cylinder of an internal combustion engine of a hydrocarbon fuel with an oxygen-containing gas containing at least 90 per cent oxygen by volume, the method which comprises introducing said fuel and said oxygen-containing gas to said engine at a pressure of at least 50 pounds per square inch gauge in an amount sufficient to substantially fill said cylinder at substantially said pressure and in relative proportions such that the ratio of atoms of oxygen to atoms of carbon in the resulting mixture is within the range of from about 1.0 to about 1.4, compressing the thus fed gas to no more than ⅓ of the volume of the cylinder, igniting the thus compressed mixture, and discharging the resulting products from the engine at a pressure of at least 50 pounds per square inch gauge.

2,591,688
SAND RIDDLING DEVICE
Edward Faulkner, Port Huron, Mich., assignor, by mesne assignments, to Roller Riddle Corp., Port Huron, Mich., a corporation of Michigan
Application May 4, 1946, Serial No. 667,310
3 Claims. (Cl. 209—342)



1. A sand riddling device comprising a base, an elongated frame, means mounting said frame on said base for reciprocation along the longitudinal axis of said frame, riddle supporting means mounted on said frame for reciprocation relative thereto, a motor mounted on said frame, means operatively connecting said motor to said riddle supporting means and operable by said motor to reciprocate said riddle supporting means, said first named means comprising a plurality of flanged rollers mounted on said base and adapted to engage said frame to prevent vertical movement thereof in one direction, the flanges of said rollers engaging opposite sides of said frame to prevent movement thereof transversely of said axis, and additional roller means carried by said base adapted to engage said frame to prevent vertical movement thereof in the opposite direction.

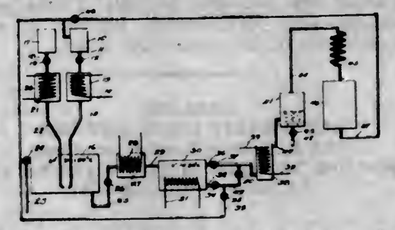
2,591,689
HIGH-DENSITY BEAM CONTROL
Lester M. Field, New York, N. Y., assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 23, 1945, Serial No. 601,095
5 Claims. (Cl. 315—15)



1. A high density beam electron tube comprising an envelope having therein means for producing an electron beam, a hollow electrode positioned about and along the path of said beam for defining a field-free region, at least one additional electrode arranged inside said hollow electrode adjacent an end thereof, and potential applying means connected to said hollow electrode and said additional electrode for maintaining said additional electrode at a positive potential with respect to said hollow electrode whereby ions are trapped in the path of the electron beam adjacent a boundary of the field-free region.

2,591,690
METHOD OF DEASPHALTIZING OILS
Karl A. Fischer, College Park, Md.
Application November 15, 1949, Serial No. 127,477
6 Claims. (Cl. 196—14.45)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process of removing asphaltic-resinous constituents from petroleum oils and oil containing distillation residues comprising mixing the oil containing material with hexafluoroxylene, heating the mixture to a range of from about 60° C. to 120° C. and separating the asphaltic-resinous constituents.

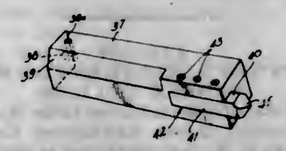


2,591,691
METHOD FOR DETERMINING BREATH ALCOHOL CONTENT
Glenn C. Forrester, Niagara Falls, N. Y.
Application July 5, 1946, Serial No. 681,531
2 Claims. (Cl. 23—232)



1. The method of rapidly ascertaining the approximate degree of intoxication of a person which comprises forcing exhaled alveolar air of the person undergoing test at a flow rate of at least 800 cubic centimeters per minute through a colored acidic solution of potassium permanganate having a potassium permanganate concentration falling within the range 0.005 N to 0.100 N and a specific gravity falling within the range 1.16 to 1.29, said solution being contained within the interstices of a porous glass frit, and measuring the period of time required to render said colored acidic solution colorless, said period of time being proportional to the blood alcohol content and degree of intoxication of the person undergoing test.

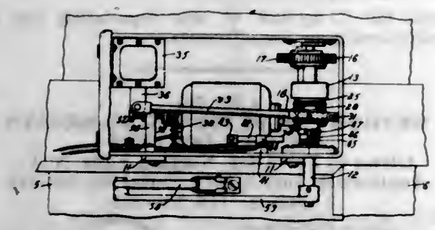
2,591,692
TOOLHOLDER
Richard W. Fricke, San Gabriel, Calif., assignor to George G. Bakewell, South Pasadena, Calif.
Application March 29, 1946, Serial No. 658,343
11 Claims. (Cl. 29—96)



1. A tool holder comprising in combination: a block having two fixed, angularly disposed retaining walls forming an angular seat providing an apex, against which walls and in which apex a tool-carrier of corresponding angular cross section is adapted to be seated and to be thereby held against angular shift and to be clamped; an elongated clamping jaw having an intermediate portion pivotally mounted upon said block adjacent said seat, and providing an overhanging end portion adapted to engage said tool carrier at a position directly opposite from said apex to clamp said tool carrier simultaneously against both of said walls, said jaw having an actuable

end portion remote from said overhanging portion; and means operable between a portion of said block and said end portion of said jaw for actuating said overhanging portion to clamp said carrier and to release the same.

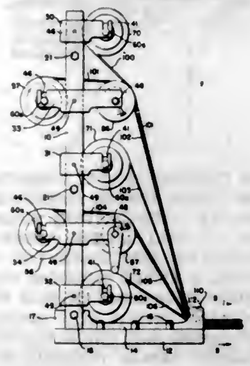
2,591,693
AUTOMATIC DOOR OPENER
John J. Gatesy, Torrington, Conn.
Application November 20, 1948, Serial No. 61,195
6 Claims. (Cl. 268—65)



1. An automatic door opening apparatus of the character described comprising a mechanism mounted to a door to be operated thereby and including, in combination, an electric motor, a speed reduction unit driven by said motor, an operating shaft driven by said unit, a connecting arm between said operating shaft and door, clutch means between said motor and operating shaft, an electric circuit including a solenoid operable upon energization thereof to cause operation of said clutch for connecting the operating shaft to the motor and, upon de-energization thereof to cause said clutch to disconnect said operating shaft from the motor, a relay switch operable to close said circuit and simultaneously energize said motor and solenoid, a separate switch in said circuit operable upon the door reaching its open position to cause de-energization of said motor while the solenoid remains energized, the said unit being adapted to resist rotation of the shaft and thereby retain the door open, time delay means for causing operation of said relay switch after a predetermined time period to de-energize said solenoid and cause the clutch to disengage the operating shaft from the unit and thereby render the door free to close, and spring means operable independently of said opening apparatus for closing said door.

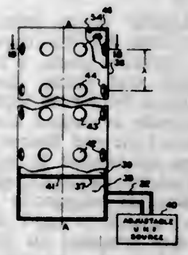
2,591,694
REEL SUPPORT STRUCTURE FOR MULTIPLE MARKER DEVICES
Herman Walter Gilbert, Forest Hills, N. Y., assignor to Cutting Room Appliances Corporation, New York, N. Y., a corporation of New York
Application August 16, 1946, Serial No. 690,908
12 Claims. (Cl. 270—52)

1. A multiple carbon tracer device of the character described, comprising a pair of spaced apart horizontally disposed longitudinal brackets, a pair of vertically disposed bar members, means for attaching the lower end of each of said bar members to one of said longitudinal brackets so that the same will be maintained in upright position, a plurality of roller supporting brackets slidably mounted on each bar member, the roller supporting brackets on one bar member corresponding to and being in aligned relationship with the roller supporting brackets of the other bar member, means for maintaining said roller supporting brackets in selected locations along said bar members, a plurality of roller members adapted to receive thereon continuous supply rolls of marker material, means for removably, rotatably supporting said roller members between corresponding pairs of roller supporting brackets, a drum adapted to receive thereon a continuous supply of carbon or similar tracing material, means for removably rotatably supporting said



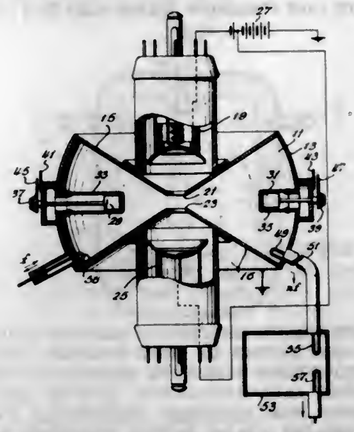
drum between a corresponding pair of said roller supporting brackets whereby the marker material and carbon material may be freely paid off from their supply rolls, as a stack of superposed layers, the said marker and carbon layers being arranged in predetermined successive arrangement, to simultaneously produce the required number of markers, and means for rewinding the carbon material on the drum.

2,591,695
HIGH-FREQUENCY RADIATOR APPARATUS AND RESONATOR
William W. Hansen, Garden City, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application January 6, 1943, Serial No. 471,517
17 Claims. (Cl. 250—33.63)



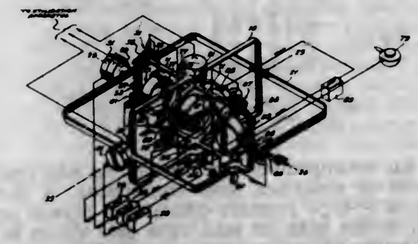
13. High frequency directional apparatus comprising means for 360° radiation in a predetermined plane of high frequency energy simultaneously from a plurality of wave guide apertures arranged in a linear array, said means including resonant chamber means for producing equal phase delays between the radiation from adjacent equally spaced pairs of said radiation points, a source of high frequency energy, and means for exciting said radiation means from said source whereby upon change in frequency of said source the directivity characteristic of said apparatus is correspondingly changed.

2,591,696
HIGH-FREQUENCY ELECTRON TUBE STRUCTURE
William W. Hansen, Stanford University, Calif., assignor to The Sperry Corporation, a corporation of Delaware
Original application October 23, 1941, Serial No. 416,170. Divided and this application October 30, 1946, Serial No. 706,747
6 Claims. (Cl. 250—36)



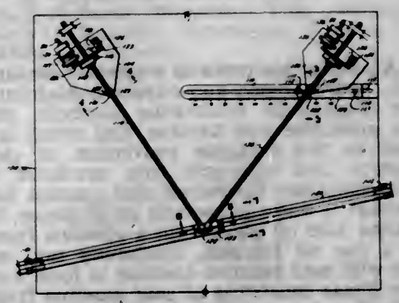
1. High frequency apparatus comprising a cavity resonator, means for passing an electron stream through said resonator and for reflecting the same back thereinto for causing said resonator to resonate both at a fundamental and at a harmonic frequency, and means comprising tuning means differently located within said resonator and selectively operated for tuning said resonator to one of said frequencies independently of the other.

2,591,697
STABLE REFERENCE APPARATUS
Robert F. Hays, Jr., Syosset, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application August 26, 1946, Serial No. 693,055
12 Claims. (Cl. 74—5.34)



1. Stable reference apparatus comprising: a principal frame to be stabilized in space about first and second mutually perpendicular major axes and for the establishment of a third major axis perpendicular to said first and second major axes; a first gyroscope coupled to said frame for detecting and resisting forces tending to disturb the space orientation of said principal frame about said first major axis, said gyroscope comprising a first rotor-bearing frame journaled in said principal frame for freedom about a first gimbal journal axis perpendicular to said first major axis, and a first rotor supported in said first rotor-bearing frame to spin therein about an axis perpendicular to said first gimbal journal axis and normally perpendicular to said first major axis; a second gyroscope coupled to said frame for detecting and resisting forces tending to disturb the space orientation of said principal frame about said second major axis, said second gyroscope comprising a second rotor-bearing frame journaled in said principal frame for freedom about a second gimbal journal axis perpendicular to said second major axis, and a second rotor supported in said second rotor-bearing frame to spin therein about an axis perpendicular to said second gimbal journal axis and normally perpendicular to said second major axis; means including a gravity-reference responsive to inclination of said principal frame from a normal position about said first major axis for applying a torque to said first rotor-bearing frame about said first gimbal journal axis in the direction to produce precession of said first gyroscope tending to overcome said inclination about said first major axis; and means including a gravity-reference responsive to inclination of said principal frame from a normal position about said second major axis for applying a torque to said second rotor-bearing frame about said second gimbal journal axis in the direction to produce precession of said second gyroscope tending to overcome said inclination of said principal frame about said second major axis.

2,591,698
SHORAN MECHANICAL STRAIGHT-LINE COMPUTER
James E. Henry, Dayton, Ohio
Application January 15, 1947, Serial No. 722,277
3 Claims. (Cl. 343—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A system for navigating an object with respect to two fixed reference points, said system comprising means carried by said object for continuously measuring the distances from said object to said two fixed reference points, means also carried by said object for establishing two additional reference points corresponding to said two fixed reference points and separated by a distance equal at a reduced scale to the distance between said two fixed reference points, means providing a movable point, means establishing said movable point on the circumference of two circles having as centers the two additional reference points, means for continuously adjusting the radii of said circles to always equal at said reduced scale the corresponding measured distances from said object to said reference points, track means defining a path having a position relative to said two additional reference points corresponding to the position of a desired path of navigation relative to said two fixed reference points, a carriage movable along said track means, an arm pivotally mounted on said car-

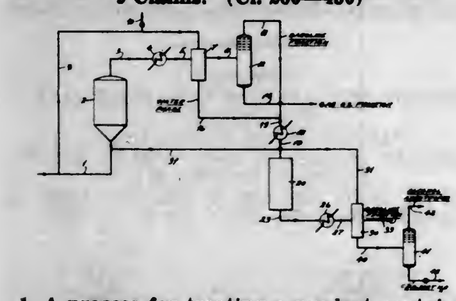
riage about a vertical axis passing through the path defined by said track, means also pivoting said arm about a vertical axis passing through said movable point, whereby displacement of said movable point from said defined path results in rotation of said arm, a potentiometer mounted on said carriage and having a movable contact mounted on said arm, said potentiometer also having a tap intermediate its ends and located adjacent to said movable contact when the displacement of said movable point from said defined path is zero, means for maintaining a direct voltage across said potentiometer, and means connecting an output circuit between said contact and said tap.

2,591,699

VAPOR PHASE TREATMENT OF COMBINED GASOLINE AND WATER PHASES OF SYNTHESIS PRODUCT WITH A BASIC COMPOUND

Howard V. Hess, Beacon, and George B. Arnold, Glenham, N. Y., and Marvin L. Drabkin, Pittsburgh, Pa., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application November 14, 1949, Serial No. 127,201
9 Claims. (Cl. 260—450)



1. A process for treating a product containing water, hydrocarbons and oxygen-containing organic compounds comprising alcohols, esters, acids, aldehydes and ketones, and which is obtained by the catalytic conversion of carbon monoxide and hydrogen into synthetic fuel, which comprises separating said product into a gas phase, a water phase and an oil phase, fractionating said oil phase into a gasoline fraction and a gas oil fraction, combining said water phase with said gasoline fraction to form a composite phase consisting of said gasoline fraction and said water phase vaporizing said composite phase, contacting said composite in the vapor state at a temperature of 500 to 1000° F. with a solid basic material selected from the group consisting of alkali metal compounds, alkaline earth compounds and mixtures thereof whereby esters are hydrolyzed and acids are decarboxylated, separating said composite into a gaseous fraction, a water phase and a gasoline fraction, separately removing alcohols and ketones from said water phase and said gasoline fraction.

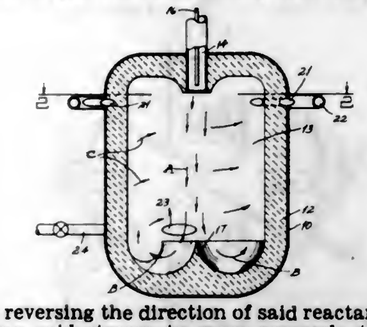
2,591,700

PREPARATION OF SYNTHESIS GAS

Leon Jacolev, Irvington, N. J., and Irvine F. German, Jr., Bronx, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application May 28, 1948, Serial No. 29,866
8 Claims. (Cl. 48—196)

1. In the process of producing synthesis gas comprising essentially hydrogen and carbon monoxide by the partial combustion of a stream of gasiform hydrocarbon, wherein said hydrocarbon is reacted with oxygen in a relative proportion approximating one atom of oxygen per atom of carbon, the improvement which comprises passing a stream of said reactants axially and centrally through a predetermined path of flow in a substantially unobstructed reaction zone, maintaining reaction conditions in said reaction zone including a superatmospheric pressure and a temperature above about 2000° F., effecting combustion of said reactants during said flow, there-



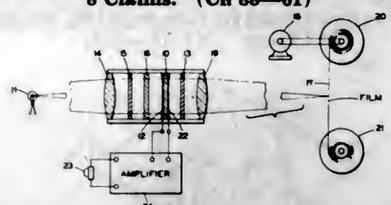
after reversing the direction of said reactants and causing said stream to move reversely through said reaction zone in radially spaced relationship surrounding said first-named flow in substantially direct heat exchange relationship thereto as a segregated stream moving oppositely to the first named flow, simultaneously causing said reversely flowing stream to move rotationally about the central axis of said reaction zone, effecting substantial completion of the reaction during said reversed flow to the reaction zone and withdrawing the products of reaction.

2,591,701

ELECTRICAL LIGHT-TRANSMISSION CONTROLLING ARRANGEMENT

Hans Jaffe, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application October 15, 1947, Serial No. 780,021
8 Claims. (Cl. 88—61)



1. An arrangement for controlling the transmission of polarized light comprising: a Z-cut plate of P-type primary-phosphate crystal material in the path of said light and which is at least partially transparent to said light; means for applying variable potentials across said plate in the direction of light travel; and an analyzer for light emerging from said plate.

2,591,702

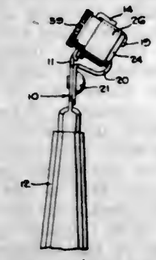
RIBBON TYPE RAZOR ASSEMBLY

George Douglas Jones, Los Angeles, Calif., assignor, by mesne assignments, to Reelshaw Corporation, Los Angeles, Calif., a corporation of California

Application April 28, 1949, Serial No. 90,059
7 Claims. (Cl. 30—40)

1. In a safety razor assembly, the combination of: a razor head and a bridge member mounted

for relative movement and supported on a handle, a magazine including a ribbon blade having a sharpened edge, the magazine including a first shell receiving a supply coil of said ribbon blade, the magazine also providing a winding reel for the ribbon blade and a second shell enclosing the winding reel, said shells each being substan-



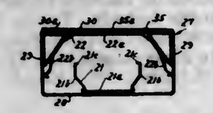
tially cylindrical, the magazine having a spacer extending between the first and second shells and over the portion of the ribbon blade extending between said shells to prevent outward bowing thereof, the spacer having curved portions at its ends engaging the shells, the magazine being removably mounted between the razor head and the bridge member.

2,591,703

PACKAGE CONSTRUCTION

Karl H. Keller, Gibson Island, Md., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut

Application April 13, 1950, Serial No. 155,745
6 Claims. (Cl. 229—6)



1. A shipping package for fluorescent lighting components including a wiring channel having assembled lamp auxiliaries and a separate trough-like reflector, which package comprises a spacing tube of stiff paperboard material longitudinally disposed between the concave surfaces of said channel and reflector to hold said components in spaced relation; a stiff paperboard carton blank folded along score lines to provide a tubular carton surrounding said spaced components and having bottom, side and top panels, the ends of said blank being secured together in overlapping relation so as to cause a pair of opposite faces of said carton to snugly engage the backs of said components, said carton being apertured to provide a pair of opposed hinged tabs aligned transversely of the channel, the hinge lines of said tabs falling substantially along respective back edges of said channel; securing means for fastening said wiring channel to said carton including a strip-like wrap of flexible sheet material secured to the inner face of said carton intermediate said apertures and extending substantially around said channel transversely thereof, and a flexible binding strap encircling said wrap and said channel and passing through the apertures provided in said carton, the ends of said flexible strap being fastened together within said package so as to place said strap under tension and cause said tabs to be hinged inwardly of said package to provide reinforced shoulders in said carton material at the hinge lines of said tabs against which said strap bears in passing through said apertures; and recessed paperboard end closures for said carton, each of said closures having outwardly directed, peripheral flanges bent at substantially right angles to the plane of the closures and secured flush with an inner, end margin of said carton.

2,591,704

SUGAR CRYSTALLIZATION

George Joseph King, Hewlett, N. Y., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 5, 1950, Serial No. 177,965
14 Claims. (Cl. 127—58)

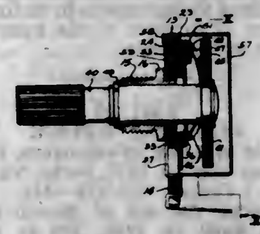
6. In the process for producing crystalline sugar the improvement which consists in growing the sugar crystals in the presence of a surface active agent selected from the group consisting of: (1) partial long chain fatty acid esters of polyhydroxylic compounds which have from 3 to 6 carbon atoms per molecule; (2) polyoxyalkylene ethers of partial long chain fatty acid esters of polyhydroxylic compounds which have from 3 to 6 carbon atoms per molecule wherein the oxyalkylene groups have from 2 to 3 carbon atoms each; (3) polyoxyalkylene esters of long chain fatty acids wherein the oxyalkylene groups have from 2 to 3 carbon atoms each; and (4) long chain fatty acid esters of polyoxyalkylene ethers of polyhydroxylic compounds which have from 3 to 6 carbon atoms per molecule wherein the oxyalkylene groups have from 2 to 3 carbon atoms each.

2,591,705

VARIABLE CAPACITOR

George T. Kodama, Milwaukee, Wis., assignor to Herlec Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application January 18, 1949, Serial No. 71,454
10 Claims. (Cl. 175—41.5)



1. In a capacitor assembly for changing the output intensity and compensating tone frequencies in radio receivers, a stator comprising an insulating member having an aperture therethrough, a contact ring mounted on the insulation member and concentrically with the aperture therethrough, and a capacitor element held on the stator insulating member and including a dielectric, spaced conductive coatings supported by the dielectric on one side thereof, terminals mounted on the stator insulating member and separately connected with the conductive coatings on the dielectric and with the contact ring, a rotor comprising a shaft rotatably mounted in the stator insulating member, an insulating member mounted on the shaft, a conductive rotor plate adapted for conformation with and movement in contact with the other side of the stator dielectric, and resilient conductive means mounted on the rotor insulating member, the resilient conductive means having one pair of resilient contact fingers in slidable engagement with the stator contact

ring and another pair of resilient fingers engaging and pressing the rotor plate against the stator dielectric and electrically connecting the rotor plate to the contact ring.

2,591,706

PLURAL-COMPARTMENT ADMIXING HYPODERMIC SYRINGE AMPOULE FOR SEGREGATED STORAGE OF INGREDIENTS OF LIQUID MEDICINAL SOLUTIONS AND THERAPEUTIC PREPARATIONS

Marshall L. Lockhart, Rutherford, N. J., assignor to The Compule Corporation, Rutherford, N. J., a corporation of New Jersey

Application September 29, 1950, Serial No. 187,502
18 Claims. (Cl. 128—272)



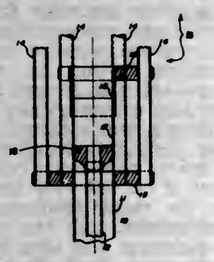
1. A hypodermic syringe ampule for storage of segregated ingredients of liquid medicinal solutions and therapeutic preparations manipulatable to accomplish admixture of the ingredients and hypodermically to administer the resulting mixture comprising, in combination, a substantially tubular hypodermic syringe barrel, partition means mounted in said barrel between opposite ends thereof to define from each other a liquid storage chamber and a mixing chamber for storage of the other ingredient, one-way valve means in said partition means openable by hydraulic pressure applied from the liquid chamber side of the latter and preventing reverse flow, piston plug means closing off the liquid chamber end of said barrel and being adapted to be slid forward therein to expel liquid from said liquid chamber into said mixing chamber, and needle-pierceable plug means closing off the mixing chamber end of said barrel and through which the hollow needle of the syringe is to be thrust to permit expulsion of mixture in the hypodermic administration of the latter.

2,591,707

COUPLING DEVICE

Donald M. Lowe, Washington, D. C.

Application May 26, 1943, Serial No. 488,541
1 Claim. (Cl. 178—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



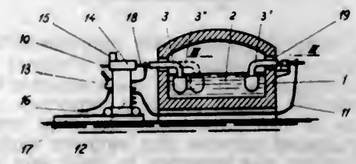
Means for coupling a concentric transmission line to a multiple conductor line having six parallel conductor bars equally spaced, from each other and from a central axis of symmetry, said coupling means comprising a metal short-circuiting plate to which said parallel conductor bars are connected in a plane normal to said axis of symmetry, said plate being provided with a central opening in which opening is fitted the outer cylindrical conductor of the concentric line entering the plate from the side opposite the side to which said parallel conductors are connected and terminating at the surface of the side of the plate to which the parallel conductors are connected, a rigid coupling spider plate of substantial thickness within the ring of parallel conductors having three arms extending radially in a plane normal to said axis of symmetry, said arms being provided with cylindrical channels embracing alternate ones of said parallel conductor bars in sliding electrical contact therewith, a relatively large rigid cylindrical conductor fitted tightly into a central hole formed in the spider coaxial with said axis of symmetry, said conductor extending from the surface of the spider toward the short-circuiting plate, the ratio of the diameter of the said cylindrical conductor to the diametric spacing between the said parallel conductors being equal to the ratio of the diameter of the inner conductor to the diameter of the outer conductor of the concentric line, a relatively large rigid cylindrical connecting element of approximately the diameter of said cylindrical conductor positioned within the ring of parallel conductors coaxial with said axis of symmetry between said short-circuiting plate and said spider, said connecting element being fixedly secured to the end of the inner conductor of the concentric line and tapered to the diameter of the said inner conductor with a concave curved taper, and a second rigid cylindrical conductor forming a fixed extension of said connecting element extending into sliding telescopic connection with said first cylindrical conductor.

2,591,708

ELECTRIC GLASS FURNACE

Eugenio Lubatti, Turin, Italy

Application August 21, 1948, Serial No. 45,466
In Italy August 25, 1947
1 Claim. (Cl. 13—6)



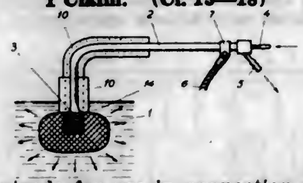
A furnace for electrically heating molten glass mass in a bath, comprising, in combination, a furnace chamber provided with at least two lateral openings positioned on opposite sides of said chamber above the level of the bath, a pair of electrically conductive supporting elements each having a substantially horizontal portion extending through a respective one of said openings and a substantially vertical, dependent portion joined to said horizontal portion by a bend, at least one pair of electrodes of carbonaceous material secured to the lower ends of the dependent portions of said supporting elements, respectively, said electrodes being adapted to extend below the level of said bath, a stationary support positioned outside said chamber adjacent one of said openings, a carriage including electrical distributing means, said carriage being movable relative to said chamber and positioned outside said chamber adjacent the other of said openings, said supporting elements having the substantially horizontal portions thereof mounted on said support and on said carriage, respectively, and means for supplying electric current to said supporting elements from said electric current distributing means of said carriage.

2,591,709

FURNACE ELECTRODE

Eugenio Lubatti, Turin, Italy

Application April 12, 1949, Serial No. 87,018
In Italy April 17, 1948
1 Claim. (Cl. 13—18)



An electrode for use in connection with electric melting furnaces, comprising a hollow metal conductor having a substantially horizontal portion and a substantially vertical, depending portion joined to said substantially horizontal portion by a bend, a head of carbonaceous material secured to the lower end of said depending portion, an insulating jacket including a mixture of asbestos fibers and refractory substance bound together with wire reinforcement, said jacket abutting against said head and extending therefrom to enclose said depending portion, said bend and part of said substantially horizontal portion, and conduit means extending through both of said portions of said hollow conductor thereinto and spaced from said lower end to enable circulation of a cooling fluid through said conduit means and through said hollow metal conductor.

2,591,710

PRODUCTION OF FUSED CYCLIC THIOPHENE COMPOUNDS

Rush F. McCleary, Beacon, N. Y., and Lawrence W. Devaney, Waco, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application November 6, 1947, Serial No. 784,506
14 Claims. (Cl. 260—329)

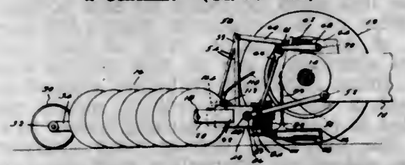
1. A process for preparing fused cyclic derivatives of thiophene which comprises reacting a cyclic compound selected from the group consisting of carbocyclic and heterocyclic compounds which contain a saturated alkyl side chain of at least two carbon atoms and a hydrogen atom on a nuclear carbon atom adjacent to said alkyl side chain with a sulfide of the class consisting of hydrogen sulfide, volatile thermally labile sulfides and mixtures thereof in the presence of a solid contact catalyst at an elevated temperature of at least 700° F.

2,591,711

REVERSIBLE PLOW

Donald C. Moore, Okmulgee, Okla.

Application May 29, 1947, Serial No. 751,216
2 Claims. (Cl. 97—26)



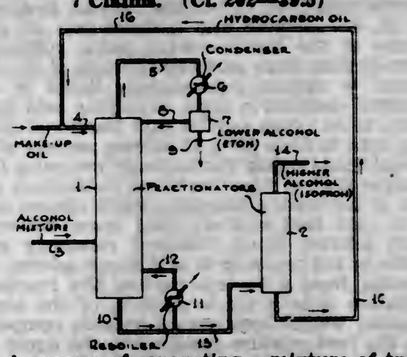
1. Means for connecting a reversible implement to a tractor for pulling and lifting of the implement by the tractor and inverting the implement while lifted to reverse its operation comprising a housing having a bore therethrough, arms projecting laterally from said housing at respectively opposite sides of the latter and substantially in alignment with each other, link means pivotally connected to the outer ends of said arms for tractively connecting said housing to a tractor while providing freedom of vertical movement of said housing, said link means being power operated to raise and lower said housing, a bracket secured at one end to said housing and upstanding therefrom, said bracket being connectible at its upper end to a tractor to limit tilting movement of said housing about the axis of the pivotal connection between said arms and said links, an implement drawbar journaled in the bore of said housing, means on said drawbar restraining the latter against longitudinal movement relative to said housing while providing freedom of rotational movement of said drawbar in said bore, a drum journaled on said drawbar, a tractor supported frame adjacent said drum, a tension spring connected at one end to said frame, a strand wound on said drum and connected to the other end of said tension spring for applying a drawbar rotating pull to said drum when said housing is raised, a manually operated latch carried by said housing and engaging said drawbar to delay rotation of said drawbar until said latch is manually released, said tension spring permitting raising of said housing without rotating said drum and acting to rotate said drum and said drawbar when said latch is released with said housing in raised position, a one way drive connection between said drum and said drawbar permitting return rotation of said drum when said housing is lowered, and a torsion spring connected between said housing and said drum for returning said drum to its original position after the drum has been rotated by said strand and said tension spring.

2,591,712

EXTRACTIVE DISTILLATION OF CLOSE-BOILING ORGANIC COMPOUNDS FROM THEIR LIQUID MIXTURES

Charles E. Morrell, Westfield, N. J., and Nat C. Robertson, Corpus Christi, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application August 13, 1947, Serial No. 768,440
7 Claims. (Cl. 202—39.5)



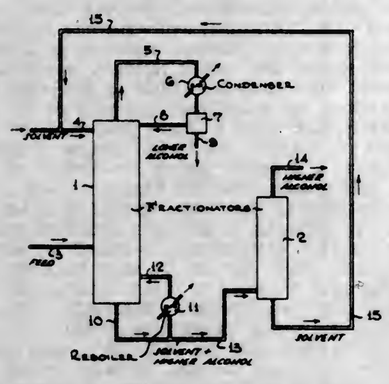
6. A process of separating a mixture of two or more saturated unsubstituted aliphatic alcohols containing not more than four carbon atoms and having closely related boiling points which comprises extractively distilling the mixture in the presence of a solvent selected from the group consisting of aromatic hydrocarbons, paraffinic hydrocarbons, and naphthenic hydrocarbons, which solvent has a boiling point sufficiently above that of the highest boiling alcohol in the mixture that it does not form an azeotrope therewith.

2,591,713

EXTRACTIVE DISTILLATION OF ALCOHOL-CONTAINING MIXTURES

Charles E. Morrell, Westfield, Carl S. Carlson, Elizabeth, and Paul V. Smith, Jr., Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 16, 1947, Serial No. 774,240
7 Claims. (Cl. 202—39.5)



1. A method of separating a lower molecular weight C_1 to C_4 alkanol from a high molecular weight oxygenated organic compound of the group consisting of alkanols and neutral oxygenated non-alcoholic organic compounds having no more than 5 carbon atoms per molecule, said lower molecular weight alkanol and the higher molecular weight oxygenated organic compounds to be separated being close-boiling, which comprises introducing a feed mixture containing both said lower molecular weight alkanol and higher molecular weight compound as components thereof into a fractional distillation zone wherein vapors of said mixture ascend countercurrently to a liquid reflux of condensate from said vapors dissolved in a liquid solvent consisting essentially of 25 to 100 volume percent higher-boiling alkanol having at least 5 carbon atoms per molecule and 0 to 75 volume percent hydrocarbon oil, the alkanol and hydrocarbon oil components of the liquid solvent being sufficiently higher-boiling than said components of the feed mixture to remain substantially liquid in said fractional distillation zone, supplying said liquid solvent to an upper part of said fractional distillation zone to form 85 to 99 volume percent of the internal liquid reflux, continuously removing from an upper part of the fractional distillation zone vapor of the lower molecular weight alkanol present in said feed mixture, said lower molecular weight alkanol being rendered relatively more volatile by the presence of said liquid solvent, and removing from a bottom part of the fractional distillation zone a dilute solution of the higher molecular weight oxygenated organic compound from the feed mixture dissolved in the liquid solvent.

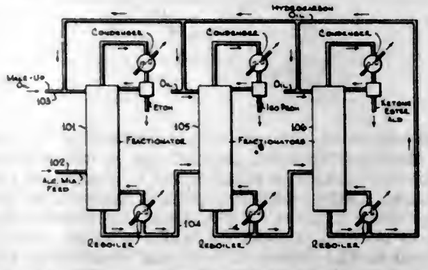
2,591,714

SEPARATION OF CLOSE-BOILING OXYGENATED COMPOUNDS FROM THEIR LIQUID MIXTURES

Charles E. Morrell, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

Application October 9, 1950, Serial No. 189,246
9 Claims. (Cl. 202—39.5)

4. A process of separating a C_1 to C_4 alkanol from a ketone having a closely related boiling point, which comprises extractively distilling the alkanol from a mixture thereof with the ketone in the presence of a hydrocarbon solvent which is sufficiently high boiling so that it does not distill with the alkanol and maintaining vapors of the alkanol and ketone undergoing distillation in equilibrium with the alkanol and ketone condensate dissolved in a liquid reflux containing 70 to 99 volume percent of the hydrocarbon solvent during the extractive distillation whereby the alkanol is rendered sufficiently more volatile than the ketone for fractionation therefrom.

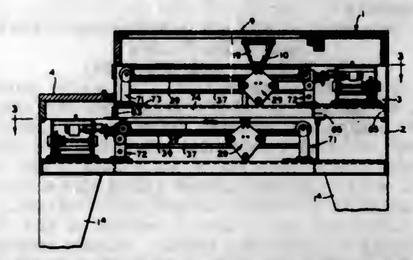


2,591,715

SHIP MANEUVERING AND BATTLE TACTICS TRAINER

William L. Morey, Melrose, and Robert A. Taylor, Newburyport, Mass.

Application November 2, 1945, Serial No. 626,416
41 Claims. (Cl. 35—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



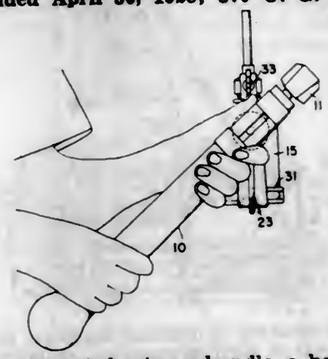
8. A training apparatus comprising a plotting unit and a first and a second control unit, said plotting unit comprising a plotting surface, first and second frames disposed in spaced relationship to said plotting surface, a first and a second carriage mounted on said first and second frames, respectively, each of said carriages being adapted to project an indication upon said plotting surface in predetermined relationship to the indication projected on said surface by the other of said carriages, means for moving each of said carriages, each of said control means controlling one of said moving means, said control units each including a speed input element, a course input element, output means coupled to said carriage moving means to control the operation thereof, and integrating means operatively connecting said speed input element and said course input element to said output means, said integrating means being adapted to combine data supplied to said two input elements in accordance with the operating characteristics of a selected naval vessel and to supply said combined data to said output means to control the operation thereof.

2,591,716

BARK HACK AND ATTACHMENT FOR HOLDING A SPRAY BOTTLE

Arthur A. Murphy, Palatka, Fla.; dedicated to the free use of the People in the territory of the United States

Application September 26, 1950, Serial No. 186,896
2 Claims. (Cl. 47—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



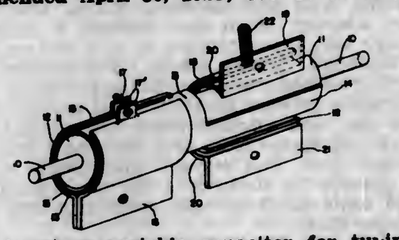
1. A bark hack having a handle, a hack head, a bottle holder for detachably carrying a spray bottle pivotally attached to the handle with the center of gravity of the holder and held bottle so positioned relative to the pivotal attachment that the bottle is maintained in an upright position by gravity, and a brake member fixed to the holder to pivot therewith on which the operator places his thumb to check oscillation of the holder and carried bottle during use of the hack in stripping bark from a tree.

2,591,717

VARIABLE CAPACITOR

Irving H. Page, Washington, D. C.

Application September 19, 1945, Serial No. 617,409
8 Claims. (Cl. 175—41.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



6. A rotary variable capacitor for tuning a resonant cavity comprising a rotatable insulating shaft, a dielectric support carried by said shaft and rotatable therewith, a conductive sleeve-like rotor electrode secured to said dielectric support, said rotor electrode having two portions, one of said portions being a complete cylinder and the other a partial cylinder, a conductive cylindrical stator electrode split longitudinally at one side enabling said stator to be spread and contracted, said stator element surrounding said cylindrical portion of said rotor electrode, means for contracting and spreading said split stator, a pair of semi-cylindrical conductive stator electrodes mounted above one another in overlapped relation, the inner stator electrode overlying said partial cylindrical portion of said rotor electrode, one of said pair of semi-cylindrical stator elements being adjustable with respect to the other for altering the range of capacity therebetween, the said inner stator electrode cooperating with the partial cylindrical portion of said rotor electrode to provide a variable capacity during rotation of the rotor electrode within the angular extent of said stator.

2,591,718

SPARK PLUG

Edwin R. Paul, Washington, D. C.

Application January 16, 1950, Serial No. 138,874
7 Claims. (Cl. 123—169)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



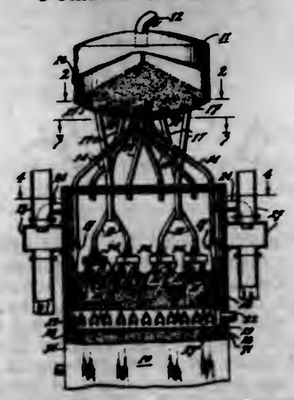
4. A spark plug comprising a shell, a central electrode positioned axially of said shell and extending beyond the lower end thereof, an insulating body surrounding said electrode and having its lower end surface coplanar with that of said electrode, a plurality of spaced integral projections extending longitudinally of said shell, and an electrode mounted on each of said projections and extending radially toward said central electrode, the inner end of each radially extending electrode resting upon the lower end of said insulating body to form a semi-surface spark gap between said central electrode and said radially extending electrode.

2,591,719

CATALYST REGENERATION APPARATUS

Claude C. Peavy, Philadelphia, Pa., and Robert M. Shirk, Wilmington, Del., assignors to Houdry Process Corporation, Philadelphia, Pa., a corporation of Delaware

Application July 24, 1948, Serial No. 40,484
5 Claims. (Cl. 23—288)



1. In apparatus for the contact of gas with a bed of solid particles, said apparatus comprising a contacting chamber adapted to contain said

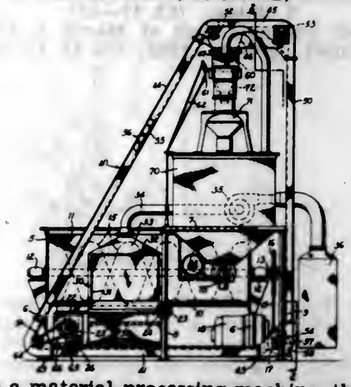
bed, means for the removal of said solid particles from said contacting chamber, means for the introduction of gas to said contacting chamber, and means for the removal of said gas from said contacting chamber, the combination thereof with a supply chamber adapted to contain a large body of said particles and located above said contacting chamber, said supply chamber having two sets of outlets in the bottom thereof, the outlets in the first set comprising a multiplicity of outlets located at points the locus of which is a circle whose center is the center of said supply chamber and whose radius is between approximately one-half to two-thirds of the average distance between the center of said supply chamber and the sides thereof, means for distributing solid particles discharged through said first set of outlets evenly over the major portion of the horizontal cross-sectional area at the top of the bed in said contacting chamber, the second set of outlets in the bottom of said supply chamber comprising a multiplicity of outlets located substantially at the center of said supply chamber, a multiplicity of open end conduits communicating with said second set of outlets from the supply chamber and extending downwardly below said supply chamber to points spaced above said bed and distributed evenly around the inside walls of said contacting chamber, and means communicating with the lower ends of said conduits for discharging solid particles as a layer closely adjacent to the inside walls of said chamber.

2,591,720
ROTARY LEAF FILTER UNIT
C. Lynn Peterson, Salt Lake City, Utah, assignor to Peterson Filters and Engineering Co., Salt Lake City, Utah, a partnership
Application December 26, 1947, Serial No. 793,877
4 Claims. (Cl. 210—195)



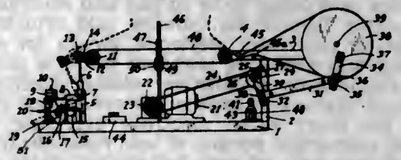
3. A filter cloth support for a leaf filter sector comprising a drain chamber to provide a space for transmission of pressure and vacuum effects to said sector, a metallic supporting block seated upon said chamber and having filtering passages extending into said chamber wherein the filtered medium and steam has great velocity in said filter, a filter bag supporting block of wood seated upon said metallic block with passages aligned with aforesaid passages, a filter bag overlying the sides of all of said blocks and chamber, and means common to said blocks and chamber for securing the same together as a unit.

2,591,721
MACHINE FOR PROCESSING MATERIALS
Alfred E. Poulsen, Los Angeles, Calif., assignor to A. E. Poulsen & Company, Los Angeles, Calif., a corporation of California
Application October 18, 1949, Serial No. 122,106
4 Claims. (Cl. 259—1)



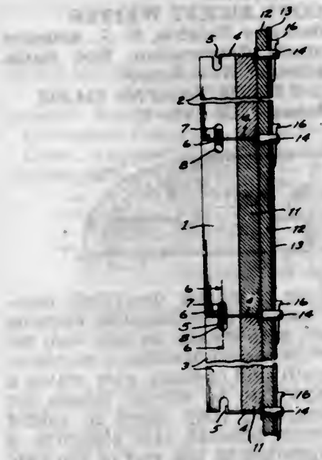
1. In a material-processing machine, the combination of: a mixing machine including a receptacle in which materials can be mixed; a material supply duct connected to said mixer and adapted to direct unmixed materials into said mixer, said duct having an open upper end; a supply hopper for receiving unmixed materials and having a discharge opening at its bottom; an endless conveyor duct extending beneath said hopper and communicating with said discharge opening thereof, said conveyor duct extending horizontally above said open end of said supply duct and therebeyond and having a Y-shaped chute provided with diverging branches, one of which communicates with said supply duct; a valve movable within said chute to a first position to open said one of said branches and to close the other of said branches, and to a second position to close said one of said branches and to open said other of said branches; an endless conveyor element movable within said conveyor duct and provided with longitudinally-spaced transverse vanes adapted, when said element is propelled through said conveyor duct, to push the material therethrough; driving means for propelling said conveyor element; means defining a passage communicating between said receptacle and said conveyor duct and through which the mixed material can discharge from said receptacle into said conveyor duct; and movable gate means within said passage for controlling the discharge of the mixed material from said receptacle into said conveyor duct.

2,591,722
ABRASION TESTING MACHINE
Comer A. Rounds and Patrick A. Nester, West Warwick, R. I., assignors to Chemo-Textiles, Inc., a corporation of Rhode Island
Application March 10, 1948, Serial No. 13,978
5 Claims. (Cl. 73—7)



1. Abrasion-testing machine comprising at least one freely rotatable roll, a roll oscillating about its axis, reciprocating means for drivingly oscillating said latter roll, said rolls being mounted in alignment for securing a test piece therebetween and along at least part of their circumferences for rubbing contact with an abrasive surface, said freely rotatable roll being mounted for substantial self-movement away from said oscillating roll upon the breaking of such test piece, means operatively connected to at least one of said oscillating roll and said reciprocating means for counting reciprocating strokes, and means operable by self-movement of said freely rotatable roll to stop said reciprocating means upon the breaking of such test piece.

2,591,723
LINED FURNACE WALL
William Sampson, Aldwych, London, England, assignor, by mesne assignments, to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application September 23, 1946, Serial No. 698,608
In Great Britain January 28, 1946
5 Claims. (Cl. 72—14)



5. In a furnace wall having a lining comprising a plurality of blocks disposed one above the other on the furnace chamber side of said wall, the lower side of a block being adjacent the upper side of the next adjacent block, said upper and lower sides each having a groove therein intermediate the opposite faces of the block and extending longitudinally of said sides, the grooves being in substantial vertical alignment, a plurality of brackets mounted on the wall and projecting therefrom in a horizontal plane toward the lining, each bracket having a supporting member in abutting relationship with the lower side of a block from the face of said block nearest the furnace wall to a point adjacent the side of said groove nearest the furnace wall, the supporting member having a lip projecting vertically downwardly into the groove in the upper side of a block and longitudinally thereof, the lip engaging the side of said last-mentioned groove nearest the furnace wall, said lip extending transversely of the groove to a point short of the side thereof furthest from the furnace wall, bracket securing means acting upon a bracket and on the side of the wall opposite said furnace side to maintain the lip in engagement with the side of a groove nearest the furnace wall, and a separate key member in the grooves, the key member comprising an elongated body extending longitudinally of the grooves, the body having opposite sides adjacent opposite sides of the grooves and an upper edge and a lower edge at the upper and lower extremities of said opposite sides, the distance between said opposite edges being no greater than the depth of the groove in the lower side of a block and the distance between the opposite sides of the key member being greater than the distance between said point short of the side of said groove furthest from the furnace wall and said side of the groove furthest from the furnace wall, said distance between the opposite sides of the key member also being such that the member will slidably fit in the grooves, the key member being recessed from a point intermediate said upper and lower edges to said lower edge, said recess extending into the body of the key from the side thereof nearest the furnace wall to a point short of the opposite side of the member and for a distance no less than the distance the bracket lip projects into said groove and lengthwise of the body member from points in spaced relationship with the opposite ends thereof for a distance no less than the length of the lip.

2,591,724
TENSION METER
Erwin J. Saxl, Providence, R. I.
Application October 24, 1945, Serial No. 624,257
11 Claims. (Cl. 72—144)

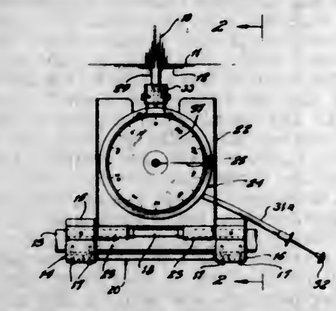


1. In a tension meter, a casing, a lever pivotally mounted in said casing, finger engageable means for rotating said lever, spring means resisting rotation of said lever, said lever having a portion extending from said casing, a shield mounted on said lever portion and carrying spaced aligned rollers, a tension lever pivotally mounted in said casing and having its outer end projecting from said casing, said outer end carrying a roller positioned intermediate said spaced aligned rollers, means yieldingly resisting rotation of said tension lever, means for multiplying the movement of the inner end of the tension lever, and means for indicating the multiplied movement.

2,591,725
LOOM CLOTH EDGE DETERMINING DEVICE
Gottfried Schneebeli, Zurich, Switzerland, assignor to Robert Schwarzenbach & Co., Thalwil, Zurich, Switzerland, organized under the laws of Switzerland
Application February 3, 1949, Serial No. 74,420
6 Claims. (Cl. 139—1)

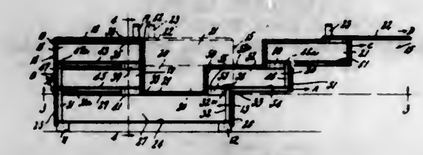
1. A cloth edge position determining device for a loom, comprising mounting means for attaching said device to a loom, a carrier frame pivotally fastened to said mounting means, an indicating dial gauge having a rectilinearly projectable pointer operating feeler mounted on said frame, said frame, gauge and feeler being unitarily swingable about said pivot, so that said feeler is movable into and out of engagement with the

cloth edge or the like, whereby the cloth can be predeterminedly located relative to the loom, and



a settable index carrying member on said indicating dial gauge cooperable with said pointer.

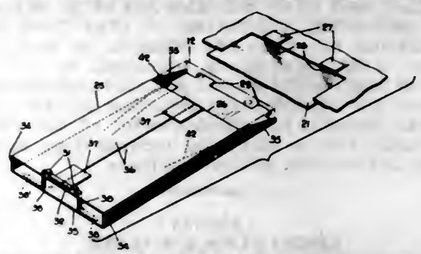
2,591,726
CHEST OR CONTAINER STRUCTURE
Moritz Schoen, New York, N. Y.
Application March 8, 1947, Serial No. 733,405
6 Claims. (Cl. 312—201)



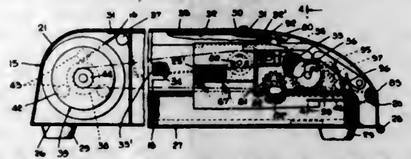
4. A box structure, chest or like container having an elongated base compartment with a rectangular top edge, a plurality of pairs of drawer sections arranged on said top edge of said base compartment in closed condition of the latter, each pair of drawer sections being arranged in side by side relation to each other, each drawer section having a bottom and two parallel side walls projecting downwardly beyond said bottom, a pair of slide members fixed to each drawer section, said slide members being disposed at the underface of said bottom and at one end of said downwardly projecting side walls of each drawer section, said slide members being positioned adjacent each other, respectively, on each pair of drawer sections when said base compartment is in said closed condition, and stop means for said slide members, said stop means being spacedly arranged from each other and affixed to said base compartment and projecting beyond said top edge to extend for position at said side walls and adjacent the bottom of the pair of drawer sections above said base compartment, said top edge of said base compartment being provided with grooves disposed for engagement with said slide members.

2,591,727
TICKET CARTRIDGE FOR COPY WRITERS
Fred R. Schulz, Berkeley Heights, N. J., assignor to Sondon Systems Corporation, Red Bank, N. J., a corporation of New Jersey
Application April 7, 1950, Serial No. 154,521
7 Claims. (Cl. 282—5)

1. In a device of the character described comprising a casing and a plurality of tickets adapted for arrangement in the casing to be dispensed therefrom one at a time, said tickets having, at one end portion thereof, a pair of apertures, the tickets being slit from the apertures to said end of the tickets, means passed through the apertures of said tickets for normally retaining the tickets in assembled relationship to each other, said means comprising a sheet metal strip forming thin walled members registering with the slits of said tickets, thereby facilitating displacement of the tickets one at a time by moving the slit portions of the tickets over said thin walled members, and said strip having a pair of key members engaging corresponding sockets of the casing in positioning the tickets in said casing.



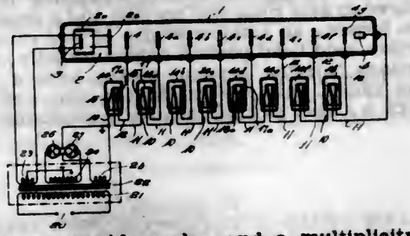
2,591,728
LOCKED COPY TICKET WRITER
Fred R. Schulz, Berkeley Heights, N. J., assignor to Sondon Systems Corporation, Red Bank, N. J., a corporation of New Jersey
Application April 7, 1950, Serial No. 154,523
14 Claims. (Cl. 282—5)



1. A device of the character described, comprising a casing, having a rectangular opening in one wall thereof, with means on said wall for supporting a ticket over said opening, a platform in the casing beneath said opening, over which a copy sheet is adapted to be moved, means for supporting an elongated copy sheet in folded position in the casing beneath said platform, a spool rotatably supported in one end of the casing and on which said sheet is adapted to be wound, a drum rotatably supported in the other end of the casing, said spool and drum having sprocket ends over which a chain is adapted to pass, one side wall of the casing having an elongated aperture, a rail extending longitudinally of the casing inwardly of said aperture, a slide movable longitudinally of the rail and having a fingerpiece portion extending through said aperture, a clutch sprocket mounted on and movable with said slide and operatively engaging the chain in positive feed of the chain in one direction tc wind said sheet on said spool, and the clutch of said last named sprocket facilitating free movement of the slide longitudinally of the chain in the opposite direction.

2,591,729
ELECTRONIC DISCHARGE TUBE SYSTEM FOR ANIMATED OR FLOWING ELECTRIC SIGNS AND DISPLAY DEVICES
Richard H. Seaman, Los Angeles, Calif., assignor to Mega Corporation, Los Angeles, Calif., a corporation of California
Application January 6, 1948, Serial No. 682
9 Claims. (Cl. 315—187)

1. An animated electric sign including an electronic discharge tube forming part of said electric sign, a cathode of the filamentary type disposed in one end of said tube, a multiplicity of spaced anodes distributed along said electron tube, an alternating current power source for energizing said filamentary cathode, rectifying means connected with said alternating current power source, means for supplying direct current



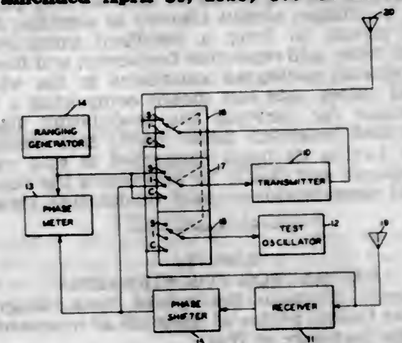
impulses to said anodes, and a multiplicity of thermal interrupters for progressively activating each of said anodes with direct current pulses from said rectifying means for predetermining the effective length of the discharge path from said filamentary cathode to the said respective anodes.

2,591,730
COLLAPSIBLE TENSION-WINDER OR REEL FOR STRIP MATERIAL
Tadeusz Sendzimir, Middletown, Ohio, assignor to Armzen Company, Incorporated, Waterbury, Conn., a corporation of Delaware
Application January 30, 1950, Serial No. 141,240
17 Claims. (Cl. 242—72)



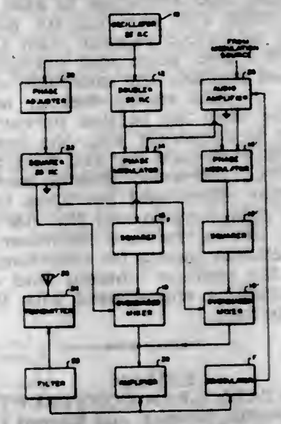
1. A collapsible tension-winder for strip material, including in combination: a drive-shaft; a first plurality of outwardly-facing cam-surfaces carried by the said drive-shaft and sloping in a direction lengthwise thereof; a second plurality of outwardly-facing cam-surfaces also carried by the said drive-shaft and sloping in a direction opposite to the slope of the said first plurality of cam-surfaces; a plurality of gripping-shoes jointly providing a coil-receiving outer surface for the said drive-shaft and movable toward and away from the axis of rotation of the latter as well as in an axial direction with respect to both of the said pluralities of cam-surfaces and the said drive-shaft, each of the said gripping-shoes being provided with at least one inwardly-facing cam-surface engageable with and sloping in substantial conformity with at least one of the first plurality of cam-surfaces, and each of the said gripping-shoes also being provided with at least one inwardly-facing cam-surface engageable with and sloping in substantial conformity with at least one of the said second plurality of cam-surfaces; and actuating-means effecting the collapse and expansion of the said gripping-shoes and including a member reciprocating lengthwise of the said drive-shaft, the said actuating-means coincidentally shifting one of the said plurality of cam-surfaces and the said gripping-shoes in an axial direction with respect to the said drive-shaft and constructed and arranged to shift the last-mentioned plurality of cam-surfaces to a greater extent than the said gripping-shoes.

2,591,731
MEASURING SYSTEM
Gustave Shapiro, Asbury Park, N. J., assignor to the United States of America as represented by the Secretary of War
Application May 30, 1945, Serial No. 596,715
7 Claims. (Cl. 343—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an electromagnetic wave range-determining ranging station the combination comprising a transmitter having modulation means, a relatively low frequency sine-wave generator, a receiver, a phase shifting device having its input circuit coupled to the output of said receiver, a phase meter for comparing the time phase of two sinusoidal waves of the same frequency having a first input circuit connected to said generator and a second input circuit connected to the output of said phase shifting device and switching means coupling said modulation means of said transmitter to either said generator or to the output of said phase shifting device.

2,591,732
RADIO APPARATUS
Charles Sheaffer, Long Branch, N. J.
Application March 5, 1945, Serial No. 581,008
5 Claims. (Cl. 250—6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. A phase-modulated pulse generating system comprising means for generating a modulating signal, means to generate two groups of discrete pulses, each group having a repetition frequency which is substantially higher than the highest frequency of said signal and the pulses of one

group alternating at equal intervals with pulses of the other group, modulating means controlled by said modulating signal to shift the phase of the respective groups in opposite directions and equal extents, the extent of said phase shift being proportional to the magnitude of the modulating signal and the respective directions of said phase shift being dependent upon the polarity of said modulating signal, means to impress said pulses upon a common circuit thereby to combine said pulse groups to form a resultant pulse wave having twice said repetition frequency, and means for reducing undesired variations in the width of said pulses, said last means comprising a demodulator for deriving the modulating signal from said resultant pulse wave, said demodulator having its input connected to said common circuit, and means for impressing the output of said demodulator on said modulating means.

2,591,733

EXTRACTOR FOR FIREARMS

Clarence E. Simpson, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War

Application November 8, 1948, Serial No. 59,001
2 Claims. (Cl. 42—25)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a firearm, the combination of a reciprocable bolt having a rectangular recess therein, a cartridge case extractor having a rigid body portion terminating in a claw portion at the forward end thereof, a lug projecting from said extractor body portion and being of lesser width than said bolt recess in order to provide a loose fit therebetween when said extractor is assembled to said bolt with said lug entering into said recess, a transverse pin jointly engageable with the front end surface of said lug and the front wall surface of said bolt recess for pivotally retaining said extractor to said bolt, said pin cooperating with said lug for locating the top thereof in spaced relation with the bottom of said bolt recess when said extractor lies in an unpivoted position, the underside of said bolt rearwardly of said recess therein being in a higher plane than the portion forwardly thereof in order to cooperate with the loose fit and the space between said lug and said bolt recess for permitting clockwise pivotal movement of said extractor about said pin upon impact between said claw portion and the rim of a cartridge case during forward movement of said bolt, and resilient means for returning said extractor to the position wherein said claw portion is in gripping engagement with the rim of the cartridge case.

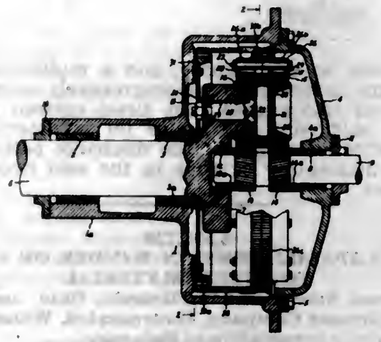
2,591,734

PLANETARY GEAR CONSTRUCTION

Norman A. Smith, Saugus, and Kermit L. Darrah, Lynnfield Center, Mass., assignors to General Electric Company, a corporation of New York

Application January 3, 1949, Serial No. 68,898
2 Claims. (Cl. 74—801)

1. A planetary gear train including a sun pinion, a ring gear, and at least one planet gear interposed therebetween and having a central axial bore, means supporting the planet gear including a cage member adapted to transmit torque to and from the planet gear and including a journalled rotor with an axially extending end portion eccentric with the rotor, a planet support stud having an axially extending portion secured in said rotor end portion and a head portion forming an axial extension of said rotor end portion, said head portion having radially spaced portions forming bearing means with a common radial axis relative to the sun and ring gears, a sleeve journal member surrounding said



head member and rotor end portion and having diametrically opposed bores engaging said bearing means for limited oscillation about an axis disposed radially relative to the sun and ring gears, the sleeve journal member also having an outer circumferential surface forming a journal with an axially disposed axis rotatably engaging the central bore in the planet gear, the axis of said bearing means lying in a radial plane substantially at the middle of the face width of the gears, whereby the planet gear may seek proper engagement with the sun and ring gears irrespective of bending deflections produced in the planet support member.

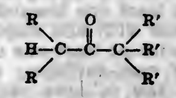
2,591,735

MANUFACTURE OF HYDRAZINE

Ernest Solomon, Nutley, N. J., assignor to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware

No Drawing. Application December 29, 1950, Serial No. 203,567
11 Claims. (Cl. 23—190)

1. A process for the manufacture of hydrazine which comprises: nitrosating a substituted ketone to produce the corresponding bimolecular nitroso ketone, said substituted ketone having the general formula



in which R and R′ are substituted or unsubstituted alkyl, aryl or naphthyl groups and not more than two R′ may also be a H atom subjecting the bimolecular nitroso ketone thus produced to hydrogenation to form a product comprising hydrazine and a substituted ketone having the aforementioned general formula; and separating hydrazine from said product.

2,591,736

KETODISILOXANES

Leo H. Sommer, Cambridge, Mass., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan

No Drawing. Application January 3, 1951, Serial No. 204,271
6 Claims. (Cl. 260—448.2)

2. A compound of the formula

$$[R''COCHR'CH_2Si(CH_3)_2]_2O$$

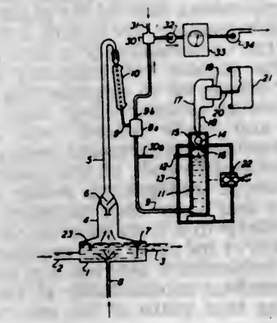
where R″ is selected from the group consisting of alkyl and monocyclic aryl hydrocarbon radicals and R′ is selected from the group consisting of hydrogen and alkyl radicals.

2,591,737

DETECTION OF OIL IN MUD-LADEN WELL DRILLING FLUIDS

Robert E. Souther, Jr., Houston, Tex., assignor to National Lead Company, Los Angeles, Calif., a corporation of New Jersey

Application November 28, 1950, Serial No. 197,981
18 Claims. (Cl. 250—71)



1. The method of detecting the presence of minute and normally unobservable quantities of crude petroleum oil which has become dilutedly dispersed in a mud-laden drilling fluid, or contained in the cuttings thereof, during the course of drilling a well while the head of the fluid column exceeds that of an oil stratum being penetrated, comprising, subjecting such fluid or the cuttings, to distillation with steam at a temperature not in excess of 350° F. to thereby vaporize crude oil fractions and water from the drilling fluid or the cuttings, and testing the resulting vaporized material for the presence of crude oil fractions.

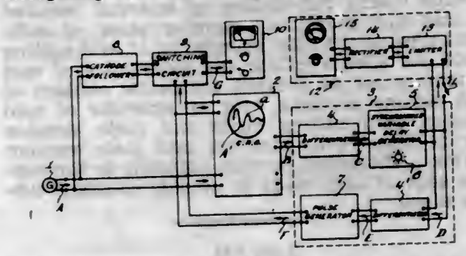
2,591,738

CATHODE-RAY TUBE VOLTAGE MEASURING DEVICE

Benjamin F. Spencer, Garden City, N. Y., assignor to The Sperry Corporation, a corporation of Delaware

Application July 22, 1949, Serial No. 106,182
15 Claims. (Cl. 171—95)

1. A voltage measuring device for measuring the instantaneous intensity of an alternating voltage comprising a pair of terminals for receiving the alternating voltage, an oscilloscope coupled to said terminals for displaying the waveform of the alternating voltage, a variable delay pulse generator synchronized to the alternating voltage across said terminals, a switching circuit coupled to said terminals, means including said pulse generator for simultaneously marking a selected point on the displayed waveform and for energizing said switching circuit, and a voltage



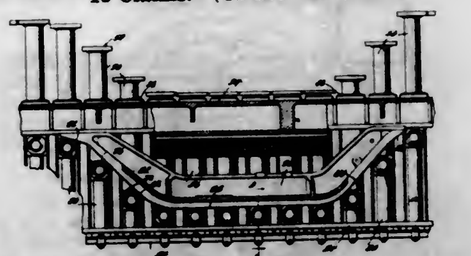
indicating device coupled to said switching circuit.

2,591,739

FILLING MACHINE

Robert J. Stewart and Frank S. Bell, Baltimore, Md., assignors to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Application May 26, 1948, Serial No. 29,235
13 Claims. (Cl. 226—117)



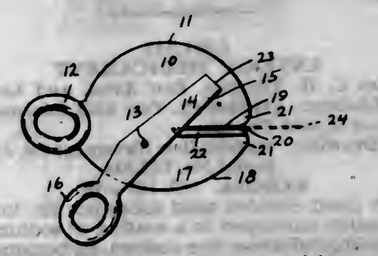
1. In a filling machine, a base, a table rotatable on the base about a vertical axis, a container supporting platform carried by and vertically reciprocable with respect to the table, vertical guideways fixed to the table, means to urge the platform in one vertical direction, a cam fixed to the base and positioned adjacent the path of rotary travel of the platform with the table, said cam including a horizontal face and faces inclined to the horizontal, and means carried by the platform and cooperating with the cam to move the platform in the opposite vertical direction and comprising a block element having its periphery provided with a series of planar surfaces respectively lying in planes corresponding to those in which the cam faces lie.

2,591,740

CHILD'S SAFETY SCISSORS

Wilber M. Stilwell and Gladys F. Stilwell, Vermillion, S. Dak.

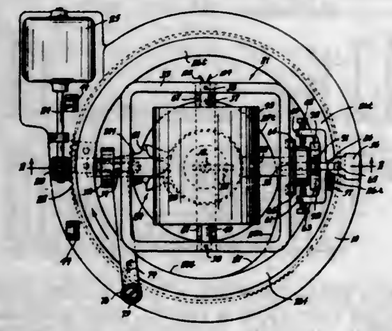
Application February 3, 1950, Serial No. 142,196
1 Claim. (Cl. 30—233)



A child's safety scissors comprising a plate member having a lengthened slot therein, a cut-

ting blade member pivotally attached to said plate member adapted to pivot past said slot to provide means for cutting of material received in said slot, said plate member being of sufficient area so that the boundaries of said cutting blade are always within the outer edge of said plate member to prevent accidental contact of said cutting portions with an operator of said scissors, said cutting blade and plate member having finger grip portions, said plate member having a thickened portion adjacent to the cutting edge of said blade to provide constant cutting edges.

2,591,741
CAGING MEANS FOR GYROSCOPES HAVING TWO DISPLACEMENT AXES
Wayne A. Stone, St. Louis Park, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 29, 1946, Serial No. 713,036
15 Claims. (Cl. 74—5.1)

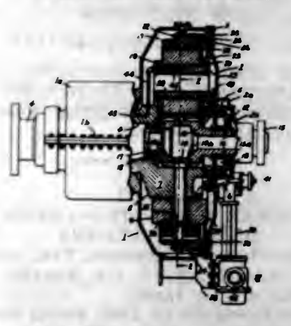


1. A centering and caging apparatus for a gyroscope having a spin axis and a pair of mutually perpendicular displacement axes, comprising, first centering and caging means for centering and caging said gyroscope in its centered position about a first of said displacement axes, holding means operative simultaneously with the centering operation of said first named means for restricting movement of said gyroscope about the second of said displacement axes and terminating said restricting operation when said first named means has caged said gyroscope about the first of said displacement axes, second centering and caging means for centering and caging said gyroscope in its centered position about the second of said displacement axes after said gyroscope is caged about said first of said displacement axes, and means for operating said first and second named means and said holding means in the foregoing sequence.

2,591,742
ENTERIC MEDICAMENT
Charles C. H. Thomas, Ben Avon, and Leonard E. Edelman, Pittsburgh, Pa.; said Edelman assignor to said Thomas
No Drawing. Application November 22, 1949, Serial No. 128,914
6 Claims. (Cl. 167—70)

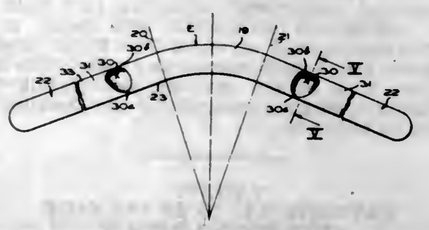
1. A finely-divided solid substance for internal medication enveloped in a coating of sodium carboxymethylcellulose, the sodium carboxymethylcellulose having a surface film of cellulosic acid thereover.

2,591,743
CAGE CONSTRUCTION FOR PLANETARY GEARING
Charles T. Thompson, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application November 23, 1948, Serial No. 61,667
6 Claims. (Cl. 74—801)



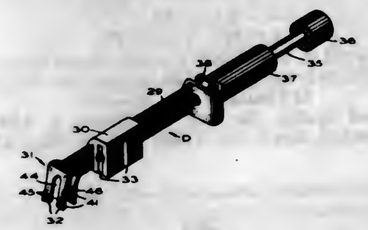
1. In a planetary gear having a sun pinion, a ring gear, and a plurality of planet pinions interposed therebetween, each of the planet pinions having a shaft member projecting from either end thereof, the combination of a cage assembly supporting the planets and including an inner cage member connected to a torque transmitting shaft, an integral annular outer cage member surrounding and freely spaced from the first member and having axially spaced means for supporting the respective ends of the planet pinion shafts, and torque-transmitting means connecting the inner and outer cage members and located substantially in a transverse plane through the mid-portion of the outer cage member whereby torque is transmitted between the inner and outer cage members substantially at the middle of the meshing face width of the gear teeth.

2,591,744
ANATOMICAL CONTACT-FORMING DENTAL MATRIX BAND
Benjamin F. Tofflemire, Lafayette, Calif.
Application July 25, 1949, Serial No. 106,713
4 Claims. (Cl. 32—63)



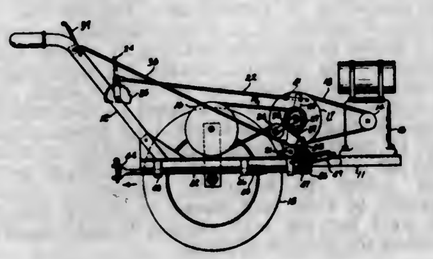
1. In a dental matrix band: a strip of material having an arcuate central portion adapted to fit against the lingual arc part of a tooth; the strip defining arms extending from said arcuate central portion, with the arms diverging relative to one another when the strip is flat; the arms being made to embrace and conform to interproximal axial contour parts of the tooth when the strip is looped around the tooth; the strip having a tooth-embracing surface; and at least one of the arms beyond the arcuate central portion having a preformed concavity in its tooth-embracing surface positioned for registration with a normal interproximal contact point between the banded tooth and an adjacent tooth.

2,591,745
CONTRA-ANGLE RETAINER FOR USE WITH GINGIVAL-APERTURE AND CUSP-REPLACING DENTAL MATRIX BANDS
Benjamin F. Tofflemire, Lafayette, Calif.
Original application December 12, 1950, Serial No. 200,411. Divided and this application January 9, 1951, Serial No. 205,143
3 Claims. (Cl. 32—63)



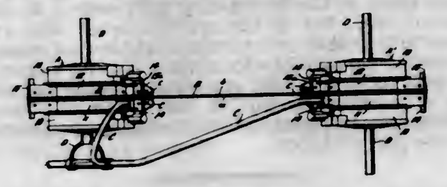
1. In a dental matrix retainer: a bar having a slotted head at a forward end thereof; this head defining a plurality of guide fingers, with slots provided between adjacent fingers; these slots being arranged for slidably-receiving intermediate overlapped portions of a looped dental matrix band, with the loop projecting beyond the head to encircle the axial contour of a posterior tooth; the length of the bar being inclined relative to the lengths of the fingers so that the bar will clear incisal edges of anterior teeth, or clear the patient's tongue and occlusal surfaces of posterior teeth in an opposite quadrant when the bar is directed across the patient's mouth, with the finger lengths paralleling the long axis of the banded tooth in either case; and means engageable with end portions of the band for drawing the intermediate band portions between the guide fingers to constrict the loop about the banded tooth.

2,591,746
DRAWBAR OPERABLE TRANSMISSION MECHANISM
John E. Tom, East Cleveland, Ohio
Application April 8, 1948, Serial No. 19,671
9 Claims. (Cl. 180—70)



8. In a tractor having a variable-drive transmission, a movable member connected to said variable-drive transmission for varying the same, and a drawbar, the combination of manual means for limiting the movement of said movable member to a location for maximum speed ratio of said transmission, automatic means responsive to the draft on said drawbar for moving said movable member to decrease the ratio of said transmission, and resilient means for modifying the operation of said automatic means in accordance with the degree and sustainability of said draft.

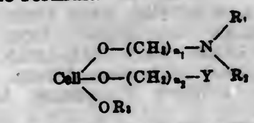
2,591,747
DUAL RECIPROCATING BLADE SAWING APPARATUS
Edward De Voe Tompkins, New York, N. Y.
Application July 17, 1946, Serial No. 684,346
9 Claims. (Cl. 143—68)



8. The combination with two members mounted to reciprocate, of a rotary fluid motor for each member, each said rotary fluid motor comprising a hollow rotating piston divided circumferentially and carrying between the parts the movable gears of an epicylic train of gearing and means connecting the epicyclic train to the associated reciprocable member for reciprocating the same.

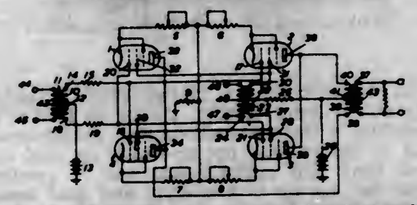
2,591,748
AMPHOTERIC CELLULOSE DERIVATIVES
Charles L. P. Vaughan, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 23, 1949, Serial No. 134,855
20 Claims. (Cl. 260—231)

1. An amphoteric cellulose compound consisting of a cellulose ether containing at least about 0.15 dialkylaminoalkyl group per anhydroglucose unit and at least about 0.1 of an acidic group per anhydroglucose unit, the total of these groups amounting to a substitution of at least about 0.4 per anhydroglucose unit, said cellulose ether having the formula



where R_1 and R_2 are alkyl radicals containing from 1 to 4 carbon atoms, n_1 is an integer of from 2 to 4, n_2 is an integer of from 1 to 3, Y is an acidic group selected from sulfo and carboxy groups, and R_3 is one of the group consisting of hydrogen, alkyl. and hydroxyalkyl.

2,591,749
AMPLITUDE MODULATION SYSTEM
Jean Marie Villemagne, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 8, 1950, Serial No. 160,755
In France June 3, 1949
3 Claims. (Cl. 332—44)



1. A translation system comprising two pairs of electron tubes, each having an anode, cathode and at least two control elements, a first means

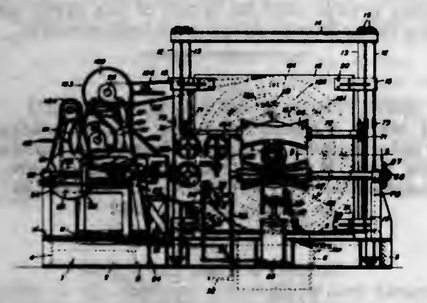
for applying a sinusoidal voltage balanced with respect to ground in push-pull to each pair of tubes including connections to one control element of each tube, a second means for applying a sinusoidal voltage balanced with respect to ground in push-pull to each pair of tubes in the same sense as the first means with respect to one pair of tubes but in the opposite sense with respect to the other pair of tubes, said second means including connections to another control element of each tube, said first and second means including connections to ground, and a pair of output terminals, each terminal connected to the output of one pair of tubes.

2,591,750
CLOSE-NESTING SNAP RETAINER FOR VENETIAN BLINDS
Brooks Walker, Piedmont, Calif.
Application February 28, 1949, Serial No. 78,751
4 Claims. (Cl. 160—178)



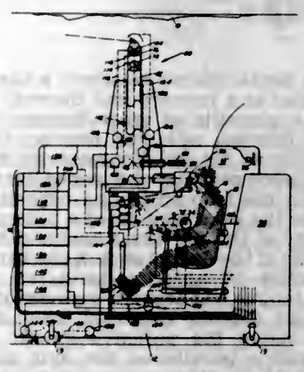
1. In a Venetian blind having slats and flexible ladders for supporting the slats in spaced relationship, said ladders having staggered cross members on which the slats rest, a stud secured on each cross member, said slats having cutout portion adapted to receive said stud, other studs mounted on said ladder staggered cross members, and apertures spaced from the cutout portion in said slat and larger than said stud and substantially in vertical alignment with the studs alternately positioned from the stud which engages said slat.

2,591,751
WHIRLING ROUGHING AND FINISHING CUTTERHEAD MACHINE FOR DEBARKING LOGS AND THE LIKE
William R. Whitlock, Aberdeen, Wash., assignor of one-third to Clark W. Adams, Aberdeen, Wash.
Application August 4, 1948, Serial No. 42,506
14 Claims. (Cl. 144—208)



4. In combination, a power driven annular rotary cutter-head carrier, means to feed a log longitudinally through said carrier, cutter-heads, means to mount said cutter-heads on said carrier so that said cutter-heads will be revolved around the log by said carrier and said means being swingably operative to advance and retract said heads into and out of engagement with the log, pneumatic means mounted on said carrier and engaging said swingable means to effect swinging movement thereof, said pneumatic means revolving with said carrier, and hydraulic means for controlling said pneumatic means, while the latter is revolving, said hydraulic means including a revolving portion mounted on said carrier, and a stationary portion comprising a control panel and operable controls on said panel.

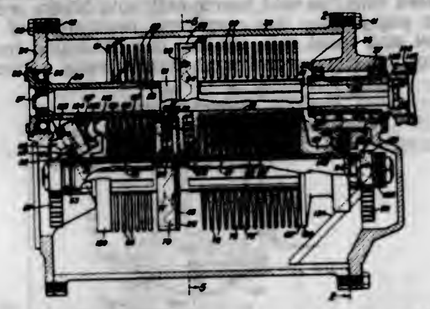
2,591,752
FLIGHT TRAINER
Harold P. Wicklund, United States Navy
Application April 16, 1946, Serial No. 662,437
10 Claims. (Cl. 35—12)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Flight simulating apparatus comprising model of terrain, a mock cockpit assembly including control elements mounted for movement with respect to said model, an optical viewing system including a pitch angle prism and an objective lens mounted upon said cockpit whereby an observer seated in said cockpit may view an image of said model, means for extending and retracting said optical elements with respect to said model in response to control signals corresponding to control data to simulate changes in altitude, means responsive to control signals corresponding to control data for rotating said optical elements in a plane parallel to that of said model to simulate changes in course, means responsive to control signals corresponding to control data for rotating said pitch angle prism in a vertical plane with respect to said model to simulate change of attitude, and means responsive to control signals corresponding to control data for moving said cockpit unit with respect to said model to simulate horizontal velocity, whereby to alter said image as though said image were moving with respect to said model to produce the illusion of flight.

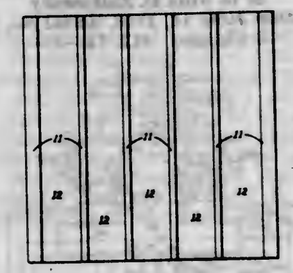
2,591,753
ADJUSTABLE RATIO FRICTION DRIVE
Ernest Wildhaber, Rochester, N. Y.
Application July 1, 1949, Serial No. 102,660
18 Claims. (Cl. 74—199)

1. An adjustable ratio friction transmission comprising two shafts having parallel axes, interengaging sets of friction discs mounted on the two shafts, respectively, to rotate with the two shafts and to be movable axially relative thereto, a member on which one of said shafts is rotatably mounted, means for adjusting said member to adjust said one shaft toward and from the other shaft along a straight line connecting the axes of



the two shafts, and means for constraining said member to rotate during said adjustment.

2,591,754
BATTERY SEPARATOR
Harland D. Wilson, Toledo, Ohio, and Jean H. Quick, Indianapolis, Ind., assignors to Auto-Lite Battery Corporation, Niagara Falls, N. Y., a corporation of New York
Application May 21, 1945, Serial No. 594,922
2 Claims. (Cl. 136—146)



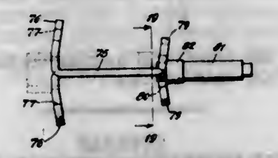
2. In a dry synthetic separator for a battery including spaced plates and an acid electrolyte, a thin sheet of matted cellulose fibers such as obtained from wood of suitable thickness for positioning between the spaced plates of the battery, said sheet having a fiber density not greater than 9.5 grams per cubic inch, a thermosetting resin bonding said fibers together into a relatively rigid sheet capable of maintaining its form in the battery under vibration during use, said resin ranging from 15 to 65 per cent of the weight of the dry separator, without destroying the porosity of the sheet to allow rapid dispersion of the electrolyte therethrough for the electrochemical action of the battery and a coating of a wetting agent on the fibers of the sheet which is innocuous to the chemical action of the battery to facilitate the dispersion of the electrolyte through the sheet when placed in dry condition in a battery.

2,591,755
STORAGE BATTERY SEPARATOR
Harland D. Wilson and Charles Popper, Toledo, Ohio, assignors to Auto-Lite Battery Corporation, Niagara Falls, N. Y., a corporation of New York
Application July 9, 1945, Serial No. 603,832
11 Claims. (Cl. 136—145)

3. A battery separator comprising an embossed fiber sheet impregnated with a resin to act as a binder, said embossed portion including at least one continuously tapered rib extending across the sheet to provide varying transverse thickness of the separator with the largest transverse dimension at the bottom of the separator respective to its position in a battery.

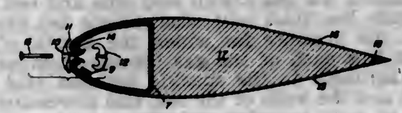


2,591,756
PENCIL SHARPENER
Glen E. Wimmer, Chicago, Ill.
Application January 26, 1948, Serial No. 4,267
5 Claims. (Cl. 120—96)



1. In a pencil sharpener which includes a base, a support extending upwardly from said base and a housing removably mounted on the support, a rotor pivoted on said base, said rotor including a shaft portion pivoted on said support and a handle at one end thereof, and a pair of roller receiving yokes secured back to back to each other and secured to the end of said shaft portion opposite to said handle.

2,591,757
HELICOPTER ROTOR BLADE
Raymond A. Young, Arlington, Va.
Application April 11, 1950, Serial No. 155,318
10 Claims. (Cl. 170—159)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

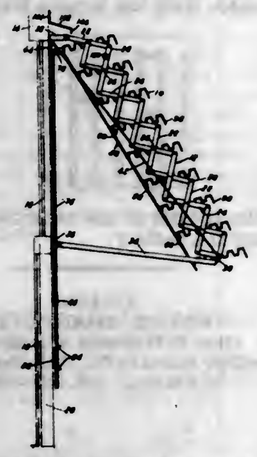


7. In a helicopter rotor blade, a hollow load carrying spar having a longitudinal frontal slot with inwardly extending flanges on the longitudinal edges thereof, a skin covering for said blade and including two forward edge portions located in said slot, means fastening said forward edge portions of said covering to said flanges, a capstrip carried by said spar and located over said frontal slot, and said capstrip having rear surfaces contacting respectively the two forward edge portions of said covering.

2,591,758
AWNING
Oscar S. Zack, Detroit, Mich.
Application September 22, 1950, Serial No. 186,191
25 Claims. (Cl. 160—62)

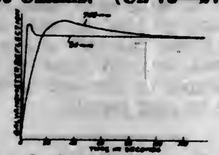
5. An awning structure comprising a lazy tong

truss, hinge pintles extending from the crossing



joints of the truss, and awning sections pivotally mounted on said pintles.

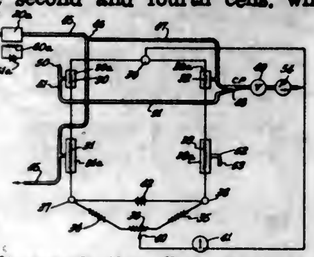
2,591,759
THERMAL CONDUCTIVITY GAS ANALYZER
Wladimir M. Zaikowsky, Pasadena, Calif. assignor to Nina D. Zaikowsky
Application March 1, 1943, Serial No. 477,675
26 Claims. (Cl. 73—27)



1. In the analysis of a gas of variable composition and under substantially atmospheric pressure or greater, utilizing transfer of gas between a flow pipe and a small cell housing a temperature-sensitive resistance element which is substantially greater in length than twice the spacing between it and the walls of the cell, the method of shortening the time lag of response to a change in gas composition which comprises: expanding the gas within said pipe and cell to a pressure less than half atmospheric but greater than the pressure for which the length of the mean free path of the gas becomes comparable in magnitude to the spacing between said element and the walls of the cell, and increasing the rate of said transfer and the velocity of flow through said pipe.

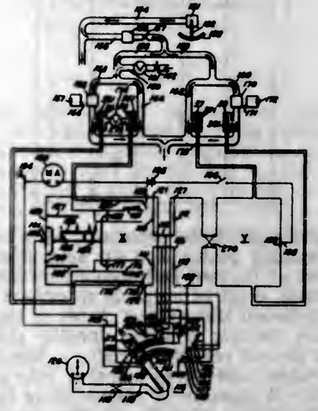
2,591,760
GAS ANALYSIS APPARATUS
Wladimir M. Zaikowsky, Pasadena, Calif., assignor to Nina D. Zaikowsky
Application November 22, 1944, Serial No. 564,645
7 Claims. (Cl. 73—27)

1. Apparatus of the type described, comprising: first and second thermal-conductivity cells of equal sensitivity and third and fourth thermal-conductivity cells having sensitivities approximately twice that of the first cell; means for supplying exhaust gas to be analyzed to said second cell at a sub-atmospheric pressure low enough to maintain all water in said exhaust gas in the vapor phase; means for supplying atmospheric air to said first cell at said sub-atmospheric pressure; means for supplying exhaust gas to said third cell at such pressure that water saturation results; means for supplying air saturated with water vapor to said fourth cell; and bridge means for comparing the combined resistance of the first and third cells against the combined resistance of the second and fourth cells, whereby



said first cell cancels the effect of atmospheric humidity on said second cell, said fourth cell cancels the effect of water vapor in said third cell, and said third cell cancels the effect of carbon dioxide in the second cell and produces an equal effect in additive relation to the effect of water vapor in said second cell.

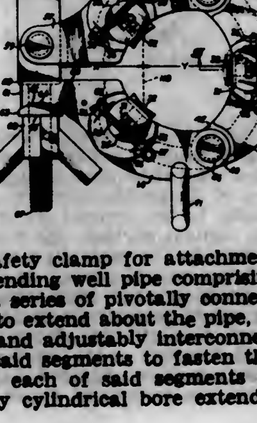
2,591,761
APPARATUS FOR GAS ANALYSIS
Wladimir M. Zaikowsky, Pasadena, Calif., assignor to Nina D. Zaikowsky
Application June 14, 1946, Serial No. 676,819
8 Claims. (Cl. 73—27)



1. In a gas analysis system of the type described: a bridge circuit having two pairs of opposing temperature-sensitive resistors in which the sensitivity of the resistors in one of said pairs is different from the sensitivity of the resistors in said other pair, and said bridge circuit includes a reversing switch for reversing the positions in said bridge of the two resistors constituting one of said pairs and means for exposing the resistors of each pair to a different sample of gas, said means including at least one duct for leading gas from a stream into exposing relationship with the resistors of one pair.

2,591,762
GAS ANALYSIS APPARATUS
Wladimir M. Zaikowsky, Pasadena, Calif., assignor to Nina D. Zaikowsky
Application June 14, 1946, Serial No. 676,820
13 Claims. (Cl. 73—27)

1. Gas analysis apparatus of the type described comprising: a cell member and a channel member relatively movable in sliding engagement with each other and having cooperating contact surfaces adapted for sealing in all positions of relative movement; said cell member defining a test cell and a cell transfer passage extending from said test cell to the contact surface of said cell member, and said channel member defining a flow channel for flow of gas therethrough and a branch channel transfer passage connected at a point intermediate the ends of said flow channel and extending from said flow channel

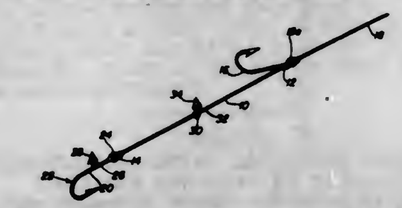


to the contact surface of said channel member at a point thereon in registration with said cell transfer passage in one relative position of said members; and means for flowing gas through said flow channel past the point of connection of said flow channel and said channel transfer passage whereby a portion of the gas flowing through said flow channel is transferred through said branch transfer channel passage to said cell transfer passage when said passages are in register.

2,591,763
SAFETY CLAMP FOR DRILL COLLARS
Walter A. Abegg, Los Angeles, Calif., assignor, by mesne assignments, to Abegg & Reinhold Co., Los Angeles, Calif., a corporation of California
Application September 15, 1947, Serial No. 774,168
8 Claims. (Cl. 24—263)

1. A safety clamp for attachment to a vertically extending well pipe comprising a body including a series of pivotally connected segments adapted to extend about the pipe, means for releasably and adjustably interconnecting the end ones of said segments to fasten the body about the pipe, each of said segments containing an essentially cylindrical bore extending angularly downwardly and inwardly relative to the vertical axis of the clamp and pipe, each of said segments having an inner substantially vertical face lying in a plane spaced from the axis of the corresponding bore a distance less than the bore radius to form an opening at the inside of the segment extending along the length of the bore, a plurality of essentially cylindrical gripper mounting members guided within said angular bores respectively for both rotation and axial movement therealong, springs beneath said mounting members urging them upwardly within said bores, said mounting members having inner faces lying substantially in the planes of said inner faces of the corresponding segments in predetermined positions of the mounting members, and a plurality of gripper elements carried by said mounting members and projecting inwardly from said inner faces thereof, each of said gripper elements having an inner gripping face extending essentially axially of the clamp and at an angle to said downwardly and inwardly extending axis of the associated mounting member, said body, mounting members and gripper elements being open to extension entirely through the body of an externally straight cylindrical pipe portion engaged by said gripping faces of the gripper elements.

2,591,764
LIVE BAIT HOOK DEVICE
Rufus V. Allen, Chino, Calif.
Application February 3, 1950, Serial No. 142,305
2 Claims. (Cl. 43—44.2)

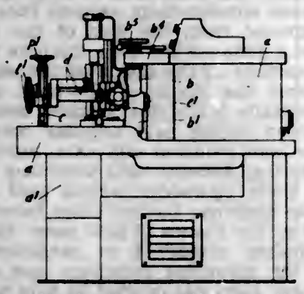


1. A live bait hook device comprising an elongated flexible element having a means at one end for attachment to a hook, a hook member at the other end of said element having a shank portion, an anchoring lug projecting laterally from the shank portion of said hook member for insertion in a live bait, an eyelet freely slidable on the element, and a barbed lug projecting radially from the eyelet for penetrating the same bait receiving the anchoring lug, said anchoring lug including a barb for penetrating and anchoring the hook member to a bait.

2,591,765
METAL CUTTING MACHINE
James Anderson, Newton Mearns, Scotland
Application December 20, 1946, Serial No. 717,467
In Great Britain February 1, 1946
2 Claims. (Cl. 29—29)

1. A machine for boring, turning and like operations comprising means for holding the work to be operated on, a machine bed, two end supports mounted on the machine bed, a tool supporting member adjustably supported at its ends by the two end supports, a disc rigid on the tool supporting member and positioned between the two end supports, a slide bracket mounted on said disc, a tool carrying slide mounted on the bracket and having a slot through which passes the tool carrying member, said member, where it extends through the slot being concentric with the axis of the disc, and eccentric with reference to the

axes of the ends carried by the end supports so that rotatable adjustment of the tool carrying



member adjusts the position of the tools with respect to the tool holder.

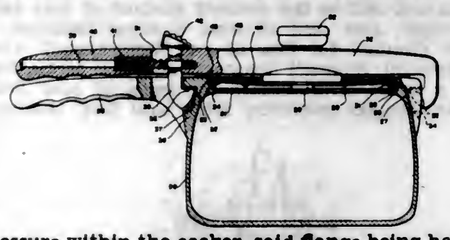
2,591,766
STANCHION
Austin E. Anderson, Jamestown, N. Y.
Application February 13, 1948, Serial No. 8,207
3 Claims. (Cl. 119—147)



1. A stanchion suspended by a flexible support and comprising separable upright frame members movably connected at their lower ends to enable placement of the stanchion frame about the neck of an animal, and a latch detachably securing the frame members together at their upper ends, said latch having a rigidly related pintle extending transversely of and journaled in spaced bearings provided in one of said frame members for pivotally mounting the latch to interlock with the other frame member, the portion of the pintle intermediate such bearings being radially displaced to form a crank part with a seat receiving the frame suspending flexible support to cause the weight of the suspended frame to crank the latch to its operative interlocked position.

2,591,767
PRESSURE COOKER
William A. Andres, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
Application December 12, 1946, Serial No. 715,809
9 Claims. (Cl. 220—44)

1. In a pressure cooker having a body provided with an opening therein and a cover for said opening adapted to flex outwardly at its edges in response to excessive internal pressure, the combination which comprises an annular seat surrounding said opening and having a portion of decreasing diameter toward the inside of said body, said seat also having a pressure relief passage at an intermediate portion thereof, and a sealing member on said cover edge having an inwardly projecting resiliently flexible peripheral flange initially engageable with a portion of said seat inside said relief passage and exposed to



pressure within the cooker, said flange being held in sealing engagement with said seat by said pressure throughout the outward flexing of said cover to permit relief of excessive internal pressure through said passage and the return flexing of said cover after said pressure has been relieved.

2,591,768
METHOD OF RESIN IMPREGNATING WOOD
Robert R. Austin, Pasadena, Calif.
No Drawing. Application August 22, 1947, Serial No. 770,173
6 Claims. (Cl. 117—72)

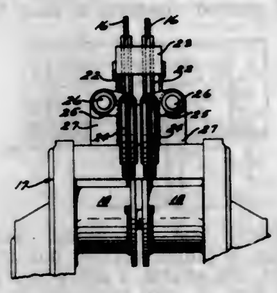
1. A process of wood treatment which comprises impregnating the wood to a substantial depth with a monomeric liquid which is capable of forming a polymeric resin and which is substantially solventless, coating the impregnated wood soon thereafter and before substantial polymerization of the liquid has occurred with a liquid sealant that is compatible with the monomeric liquid and is selected from the group consisting of high melting microcrystalline waxes, higher fatty acids containing a chain of at least 18 carbon atoms, high melting point soaps, and esters of higher fatty acids, congealing the resulting coating on the wood by cooling, and aging the wood covered with the congealed coating for a period sufficient to permit polymerization to proceed to the point where the resin is set, the monomeric liquid being such that it polymerizes at least partially at a temperature substantially below the melting point of the sealant.

2,591,769
FLEXIBLE COUPLING
Jack S. Beechler, Detroit, Mich.
Application March 22, 1947, Serial No. 736,564
5 Claims. (Cl. 64—15)



1. A torque transferring device including a flexible coupling element of resilient sheet material comprising a central portion, a wing portion on opposite sides of the central portion, one wing portion connecting to the central portion along one edge of the central portion, the other wing portions connecting to the central portion along another edge of the central portion at an angle to the first connecting edge, said wings being apertured in an out-of-round hole, and rotatable members on each side of said element having portions inserted through said apertures, and headed over to lock against withdrawal and relative rotation with the respective wings.

2,591,770
CABLE LAYING SHEAVE
Paul B. Benner, Peoria, Ill., assignor to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application March 24, 1949, Serial No. 83,159
1 Claim. (Cl. 254—190)

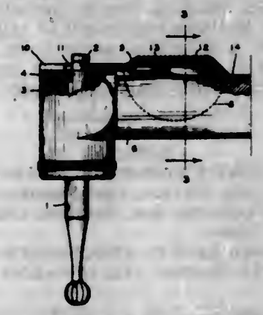


A cable laying sheave to guide cable from a guide sheave to a drum, the cable laying sheave being rotatable on an axis generally parallel to but disposed to one side of the axes of the guide sheave and the drum whereby the cable will lead onto and off of the cable laying sheave in the same general direction, a single pivotal support for the cable sheave offset from and transverse to its axis of rotation and offset from its plane of rotation, and means supporting the drum and guide sheave in positions to tension the cable to produce a component of force tending to swing the cable sheave on its pivotal support in anticipation of the advancing spiral of the cable as it is wound upon the drum, said positions being selected to reverse the direction of swing of the cable sheave when the effective diameter of the drum is increased by the completion of a full layer of cable turns thereon.

2,591,771
METHOD OF GLUING A PLURALITY OF WOODEN ELEMENTS COMPRISING CURING A UREA FORMALDEHYDE ADHESIVE BY MEANS OF HIGH-FREQUENCY HEATING
Elmer E. Bergey, Lansdale, Pa., assignor to National Casein Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application June 9, 1950, Serial No. 167,250
3 Claims. (Cl. 154—116)

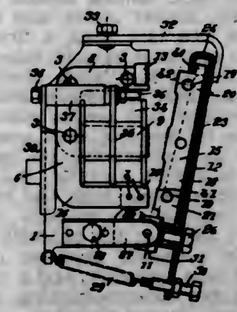
1. The method of edge-gluing a plurality of wooden elements which consists in providing a pair of elements with an intervening layer of adhesive consisting of an aqueous urea-formaldehyde resin in its original liquid state and containing about 60 to 70% urea resin solids, and a hardener composed of an ammonium salt of a strong acid selected from the group which consists of ammonium bromide, ammonium chloride, ammonium fluoride, ammonium nitrate and ammonium sulphate, and an alkaline earth phosphate, selected from the group which consists of tribarium phosphate, tricalcium phosphate, trimagnesium phosphate, tristrontium phosphate and trizinc phosphate, clamping said elements together tightly, and then passing a high frequency electric current through and in the plane of said adhesive to cure the same.

2,591,772
LOCKING DEVICE FOR CONTRAANGLE HANDPIECES
Gustaf Erik Björklund, Stockholm, Sweden
Application March 15, 1947, Serial No. 734,906
In Sweden March 20, 1946
4 Claims. (Cl. 32—27)



1. In a contraangle handpiece for dental tools, a combination, with a casing member and a spindle sleeve rotatably mounted in the casing member for holding an annularly grooved rotary tool, of a slide member provided with a portion embracing a part of said casing member and having elastic flaps engaging said casing member for retaining said slide member thereon, said slide member and said casing member having co-acting groove and projection portions for sliding engagement and said slide member being mounted to move toward and away from said spindle sleeve along an axis normal to the axis of said spindle sleeve and having a portion formed to enter the groove in the tool to retain the tool in said spindle sleeve.

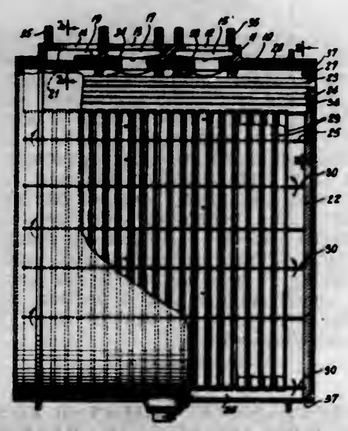
2,591,773
ELECTROMAGNETIC ACTUATOR FOR CONTACTORS AND CIRCUIT BREAKERS
André Blanchet, Neuilly-sur-Seine, France, assignor to Societe "La Telemecanique Electrique," Nanterre, France, a French society
Application March 3, 1949, Serial No. 79,336
In France April 22, 1948
3 Claims. (Cl. 175—345)



1. An electromagnetic actuator for contactors and circuit breakers, comprising in combination, a frame; an E-shaped magnetic core arranged on said frame having a first and a second outer and an intermediate central limb, only said second outer limb having a zone of reduced cross-section so that said first outer limb has a greater force of attraction than said second outer limb when said core is energized; a pin arranged on said frame near said second outer limb; a pallet pivotally mounted on said frame for rocking motion about said pin; resilient means operative-

ly connected to said pallet to urge the same into an end position farthest away from said core; a laminated armature cooperating with said magnetic core; and holding means on said pallet cooperating with said armature to hold the same with play allowing a limited displacement of said armature with respect to said pallet in all directions, said holding means including a holding member limiting movement of said laminated armature in a direction away from said pallet and located at a greater distance from said pin than said first outer limb of said core.

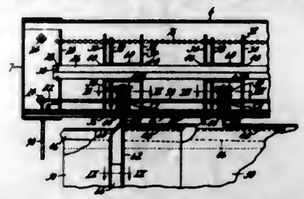
2,591,774
HEAT EXCHANGE DEVICE
Harry T. Booth, Dayton, Ohio, assignor to United Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio
Application April 21, 1949, Serial No. 88,728
12 Claims. (Cl. 257—128)



1. A heat exchange device, comprising a pair of spaced apart header plates each presenting a plurality of openings, an assembly of heat exchange tubes supported between said plates in said openings, a cylindrical shell in surrounding relation to said plates and said heat exchange tubes, fluid sealing means between said tubes and said header plates and between said header plates and said shell, a first opening in said shell on one side of said tube assembly, a second opening in said shell circumferentially offset from said first opening, a tubular member supported between said header plates in underlying relation to the said first opening in said header plate and presenting an opening registering with said first opening, the said second opening communicating with the tube assembly exteriorly of said tubular member, means defining with said shell on the opposite side of said tube assembly a header chamber communicating with said tube assembly, and a row of spaced apart flow tubes interconnecting said tubular member and said header chamber.

2,591,775
VERTICAL VENETIAN BLIND
Frederick W. Bopp and Edward O. Bopp, Kansas City, Mo.
Application August 16, 1950, Serial No. 179,728
6 Claims. (Cl. 160—168)

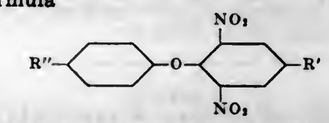
1. A Venetian blind comprising a pair of elongated support members adapted to be disposed in parallel relation along opposite edges of a window frame, a plurality of carriages carried for longitudinal movement in each of said support members, means for moving the carriages carried by both of said support members simultaneously in either direction, a shaft carried rotatably by each of said carriages at right angles to the axes of said support members, a plurality of slats extending between said support members and each connected at its opposite ends to corresponding shafts of said support members, a drive shaft carried rotatably in each of said sup-



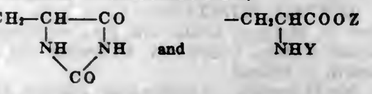
port members and extending longitudinally therethrough, a pinion carried non-rotatably on each of said slat shafts, a cog wheel carried rotatably by each of said carriages in mesh with the associated pinion, said cog wheels being carried for axial sliding movement on said drive shaft but secured against rotation thereon, and a rod extending between said support members and having its ends connected non-rotatably to a pair of corresponding slat shafts carried by said support members.

2,591,776
DIPHENYL ETHERS AND PROCESS OF PREPARING SAME
Edward Teggin Borrows, London, England, assignor to Glaxo Laboratories Limited, Greenford, England, a British company
No Drawing. Application April 24, 1950, Serial No. 157,855. In Great Britain October 23, 1947
17 Claims. (Cl. 260—309.5)

1. As new compounds, compounds of the general formula



where R′ is a grouping selected from the group consisting of groupings having the following formulae —COOZ, —CH_2CH_2COOZ,

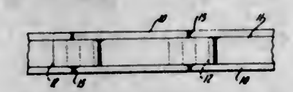


where Z is an alkyl group containing not more than four carbon atoms and Y is an acyl group, and R″ is a grouping selected from the group consisting of a hydroxy group, an alkoxy group, a hydrogen atom, an alkyl group, a nitro group, an acyloxy group, a carbalkoxy group and an acylamino group.

2,591,777
PROCESS OF FORMING A MACHINING LUBRICANT UPON MOLYBDENUM
Dwain B. Bowen, Los Angeles, Calif., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
No Drawing. Application May 3, 1946, Serial No. 667,114
6 Claims. (Cl. 148—6.24)

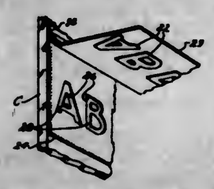
1. The process of machining molybdenum which comprises applying carbon disulphide upon the surface of molybdenum work being machined by a machine tool and utilizing the heat generated by said tool to chemically form a lubricant coating upon the work surface of said molybdenum.

2,591,778
EXPANSIBLE BRACELET
Frederich L. Brecht, San Francisco, Calif.
Application January 18, 1949, Serial No. 71,485
1 Claim. (Cl. 63—5)



In an expansible bracelet or the like, a series of outer links each consisting of spaced oblong side plates formed with rounded ends and having cylindrical pintles connecting said side plates at each end, a series of inner links connecting the outer links and each consisting of an internally and longitudinally grooved strip formed as an elongated loop having rounded ends, each inner link embracing the two pintles on adjacent ends of two outer links and having its exposed surfaces flush with the longitudinal edges of the outer links, a coil spring housed within each inner link with opposite sides seated in the grooved inner surfaces of said link and its respective ends bearing on a pintle of an outer link and an end of the inner link, said end of each inner link being formed with a lateral notch, and a guide ridge on a single inner face of each outer link in sliding engagement with said notch, with the guide ridges being alternately disposed on the inner faces of the outer links from link to link, the rounded ends of the inner and outer series of links respectively being normally in contact through action of said springs.

2,591,779
SIGN AND METHOD OF MAKING THE SAME
Homer G. Buck, Los Angeles, Calif., assignor to By-Buk Company, a co-partnership consisting of Homer G. Buck and Ollie U. Chambers
Application April 13, 1948, Serial No. 20,733
7 Claims. (Cl. 154—95)



1. In a preformed sign unit, a reflective sign character made of comparatively thin and flexible sheet material and having on one side thereof a reflective display surface and having a strong adhesive on the other side thereof, said character being provided on said display surface with a coating of an adhesive which requires contact with a like coating in order that two parts coated with such adhesive be removably adhered to one another, a carrier element for reinforcing and facilitating the handling of said character having thereon a coating of the same adhesive substance as on the sign character removably adhering said element and said character to one another, and a protective covering sheet adhered to the strong adhesive on the sign character adapted to be stripped free from said sign character without detaching or otherwise disturbing the latter; said sign character, carrier element, and protective covering sheet being identically shaped and superimposed in marginal alignment with each other.

7. The method of applying a completed sign unit to a sign supporting surface wherein said sign unit consists of a series of sign characters arranged in a predetermined sign pattern and removably held by an adhesive substance on a carrier sheet and wherein a stencil sheet is removably adhered to said carrier sheet with the sign characters disposed in the stencil opening and the backs of said sign characters exposed for application to a sign supporting surface on which the characters are to be permanently affixed; which method consists in hinging the sign unit to the sign supporting surface on which the sign characters are to be displayed, by means of a piece of flexible adhesive tape applied along the top edge of the sign unit and to said surface respectively, then lifting the complete sign unit upwardly away from said surface and applying to the sign unit area of the sign supporting surface and to the exposed surface of the stencil sheet like rubber cement coatings, then swinging the sign unit back against said surface to adhere the stencil sheet thereto, then swinging the carrier sheet together with the sign characters upwardly from said stencil sheet, then applying to said exposed portions of said surface an adhesive substance having a greater tenacity than said rubber cement coatings, then swinging the carrier sheet downwardly to apply the characters thereon against said adhesive covered surfaces exposed through said stencil openings and applying pressure to adhere the sign characters to said sign display surface, then removing said adhesive strip by which the sign unit is hinged to said surface, then removing said carrier and stencil sheet in the order named so as to leave the characters adhered to the sign displaying surface.

2,591,780
DOUBLE-GLAZED METAL SASH
Robert R. Cameron, Denver, Colo.
Application January 31, 1949, Serial No. 73,737
1 Claim. (Cl. 189—78)



A sash bar for supporting two glass panes in parallel relation comprising: a sash bar adapted to extend along the edges of both panes, the width of said sash being positioned at right angles to the planes of said panes, said width being equal to the distance between the outer faces of the two planes; an edge flange extending outward along the first edge of said bar at right angles to the width thereof and flush with the latter edge; a first, relatively thin, glass-supporting flange extending inward from said bar opposite said edge flange, said first glass-supporting flange being spaced from the first edge of said bar a distance equal to the thickness of the first glass pane so that the outer surface of said latter pane will align with both said first edge and with the surface of said edge flange; a second, relatively thick, glass-supporting flange extending inwardly from said bar along the second edge thereof parallel to said first glass-supporting flange and flush with the second edge of said bar, there being a

rectangular groove along the inner edge of said second glass-supporting flange for receiving the edge of the second glass pane, said groove having a depth equal to the thickness of said second pane so that the surface of the latter will align with said second edge and with the surface of said second glass-supporting flange; a first molding strip; screws threaded into the first edge of said bar and acting to secure said first molding strip to the surface of said edge flange in overlapping relation with the first glass pane; a second molding strip; and screws threaded into said second glass-supporting flange and acting to secure said second molding strip against said latter flange and in overlapping relation with the second glass pane.

2,591,781
KNEE LOCK FOR ARTIFICIAL LEGS AND CONTROL THEREFOR
John G. Catranis, Syracuse, N. Y.
Application March 23, 1949, Serial No. 83,028
5 Claims. (Cl. 3—2)

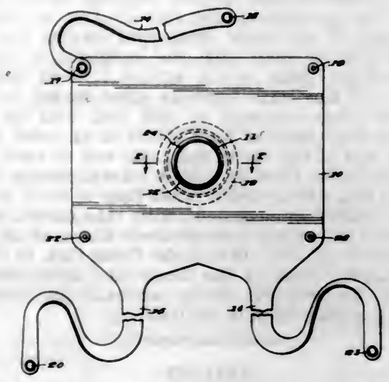


1. A knee lock for an artificial leg which comprises a stump socket, a lower leg, and a knee pin hinging the lower leg to the inner end of the socket, the knee lock comprising a friction brake drum rigid with the socket concentric with the knee pin, a second brake member encircling the first brake member and suspended therefrom, the second brake member being a split band and having spaced opposing arms depending from opposite sides of the split of the band into the lower leg, motion transmitting means between and acting on said arms to contract the brake band on the first brake drum, first and second actuators, a first actuator having a movable element, a control carried by the socket and operated by the tensioning and relaxation of the tendons of the stump of the amputee, means for transferring the motion of the control member to the movable element of the first actuator, a second actuator shiftably carried by one of the depending arms and initially spaced from a fixed part of the shank of the lower leg and located to engage said part during change in angular relation of the socket and the lower leg about the knee pin upon lifting of the socket upward about the hip joint of the amputee from straight position to forward inclined position and hence shift the angular position of the depending arms relative to the knee pin and the lower leg during bending at the knee pin, and shift the second actuator against the fixed part of the shank, and motion transmitting connections between the second actuator and said motion transmitting means.

2,591,782
METHOD OF PREPARING THIOPHOSPHORYL CHLORIDE
Elmer W. Cook, Dolphin Square, England, assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application January 26, 1950, Serial No. 140,770
3 Claims. (Cl. 23—14)

1. A method of preparing thiophosphoryl chloride which comprises reacting phosphorus trichloride with sulfur in the presence of an aluminum halide catalyst chosen from the group consisting of aluminum bromide and aluminum chloride, and recovering the thiophosphoryl chloride.

2,591,783
PROTECTING SHIELD
Douglas L. Craddock, Leaksville, N. C.
Application April 3, 1951, Serial No. 218,959
5 Claims. (Cl. 128—132)

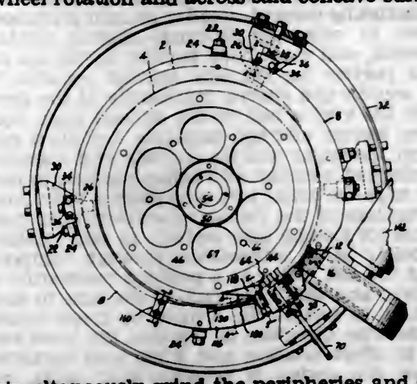


1. A shield having a centrally disposed opening extended therethrough with a bead around the edge of the opening and with an annular flange spaced from the opening and extended outwardly therefrom, said flange positioned in a plane parallel to the plane of the shield, and a tubular protecting element the open end of which is extended through the opening of the shield and the rim of which is positioned over the said annular flange.

2,591,784
ABRADING MACHINE
Raymond H. Cramer, Bloomfield, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 6, 1949, Serial No. 109,018
20 Claims. (Cl. 51—3)

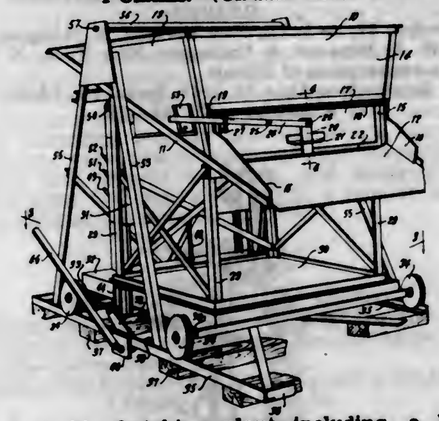
18. In a machine for abrading the peripheries and ends of tapered rollers, an abrasive lapping wheel and a regulating wheel spaced apart and defining a tapered annular space for tapered rollers therebetween, means for rotating the lapping wheel and regulating wheel, the lapping wheel being driven many times faster than the regulating wheel and abrading the peripheral surfaces of the rollers, an abrading wheel having a concave surface externally of said space and curved about an axis to abrade the ends of the rollers to convex shape, and mechanism causing the rollers to travel bodily in said space at a speed

many times faster than that of the regulating wheel rotation and across said concave surface to



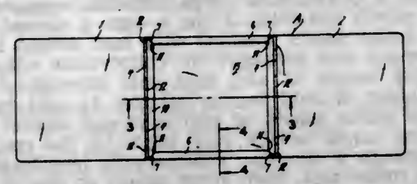
simultaneously grind the peripheries and ends of the rollers in a single operation.

2,591,785
BIN BATCHING PLANT
William S. Crawford, Dallas, and Arthur S. Graham, Carrollton, Tex.
Application April 11, 1949, Serial No. 86,618
4 Claims. (Cl. 222—160)
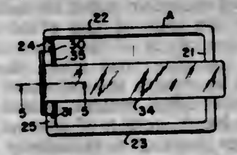


1. A bin batching plant including, a base frame, a platform scale having a frame and a weighing platform and having a plurality of separate weighing beams selectively connectable with said weighing platform, wheels mounted on opposite sides of the frame of the platform scale, a horizontal track on the base frame on which the wheels of the platform scale are movable, a lever pivotally mounted on the base frame and connected with the frame of the scale for moving the scale reciprocably on the track a predetermined limited distance and back to its original position, a bin supporting frame mounted solely on the movable weighing platform of the scale, a bin carried by the supporting frame open at its upper end and having an elongate inclined bottom wall and having side walls and a front wall joining the side walls and terminating short of the bottom wall to provide an outlet opening a cross the front of the bin co-extensive in width with the bottom of the bin thereat, the bin being positioned on the supporting frame with the outlet opening disposed in the line of movement in the scale on the base frame, an outwardly swingable closure for the outlet opening of the bin, and a projecting chute connected with the outlet opening and projecting outwardly and downwardly therefrom to form a continuation of the bottom wall of the bin.

2,591,786
STOVE ACCESSORY
Richard B. Cronheim, St. Louis, Mo.
Application May 4, 1950, Serial No. 159,960
3 Claims. (Cl. 160—135)



1. A device adapted to serve alternatively as a spatter shield and stove pad, said device comprising a central panel having a front face, a rear face, opposite side margins, a top margin, a bottom margin, and fold-over tabs along the said margins, the tabs along the top and bottom margins being of substantially equal width, the tabs along the side margins being substantially wider than the tabs along the top and bottom margin and being provided with a series of aligned elongated slots, said last named tabs being bent over to provide axially aligned hinge eyes which extend in spaced relation along each side margin between the slots with the longitudinal edges of each slot extending between the inner portions of the hinge eyes, a heat-insulative covering on the rear face of the central panel, said tabs being folded down marginally upon the covering to hold it in place, a pair of side panels respectively disposed on opposite sides of the central panel along each side margin each of said panels having an inner face and an outer face so that when the device is set up on edge for use as a spatter shield it will form a substantially U-shaped configuration in which the inner faces of the side panels will be presented inwardly toward each other and will adjoin the front face of the central panel, said side panels each being provided along one of its side margins with tubular hinge eyes positioned in axial alignment between the hinge eyes on one of the side margins of the central panel, the hinge eyes of each side panel being curled inwardly and thence around toward the inner face of the side panel so that its axis is spaced inwardly from said inner face and the outwardly presented surface of such hinge eyes in the region where they adjoin the side panel will impinge against the longitudinal edges of the slots to prevent the side panels from being folded backwardly over and upon the heat-insulative covering of the central panel, and hinge pins extending through the aligned sets of hinge eyes, whereby the side panels are swingably connected to the central panel.

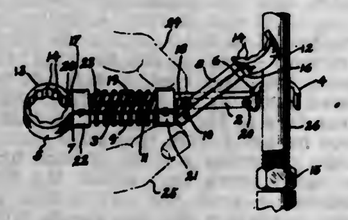
2,591,787
BUCKLE WITH PIVOTED TONGUE
Heinz Ernst David, Parkchester, N. Y.
Application June 21, 1950, Serial No. 169,448
10 Claims. (Cl. 24—178)



1. A belt buckle having a U-shaped frame of resilient material, first hinge elements projecting inwardly from the U-legs of said frame at a

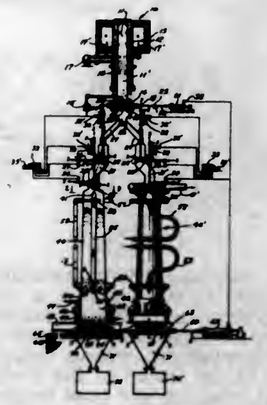
distance from the base of the U, a tongue provided with a second hinge element cooperating with said first hinge elements and connecting the tongue to the frame for pivotal movement relative thereto about an axis substantially parallel to the base of the U, a first pair of guide means rigid with said first hinge elements, respectively, at points inwardly of the U-legs, a second pair of guide means integral with said second hinge element and arranged for cooperation with the guide means of said first pair throughout the rotation of said tongue relative to said frame, said guide means of said first and second pair being urged toward each other by the resilient frame in a direction substantially lengthwise of the hinge axis, each guide means of one of said pairs including a part which is eccentric with respect to the hinge axis, each guide means of the other pair having a surface portion along which the associated eccentric part slides when said tongue is rotated relative to said frame, and at least one of the guide means of said other pair having a second surface portion adjoining said first surface portion and extending therefrom in a direction away from the cooperating eccentric part when the latter contacts the juncture between the two surface portions and at an angle relative to said first surface portion to offer to the rotation of the tongue relative to the frame in one direction when said eccentric part is in contact with said second surface portion a resistance exceeding that resulting from the friction between said eccentric part and said first surface portion when the eccentric part slides along said first surface portion.

2,591,788
BOX-TYPE WRENCH HAVING SPRING-CLOSED HEAD SEGMENTS
Merton B. Day, Warren, Mass.
Application January 8, 1949, Serial No. 69,960
2 Claims. (Cl. 81—121)



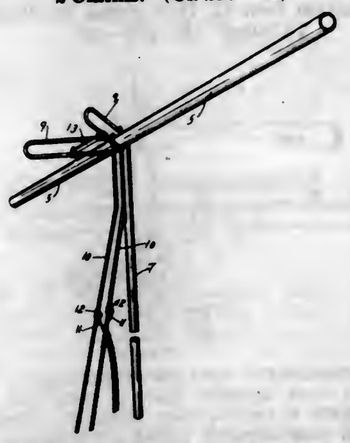
1. A wrench comprising a long and slender main body portion having a recess in one side surface thereof and an enlarged semi-circular head section carried by the outer end thereof, said main body portion and recessed portion being of a controlled cross-sectional dimension and shape and having a relatively smooth uninterrupted outer surface thereon, an arm having an enlarged semi-circular head section adjacent its outer end to comate with the semi-circular head of the main body portion, said arm being pivotally connected adjacent its end opposite its semi-circular head to said main body portion with the axis of the pivot being in the direction of the plane of the semi-circular head and at such location that when the arm is extended it will lie within the recessed portion with its semi-circular head section comating with the semi-circular head section of the main body portion, said arm having a relatively smooth uninterrupted outer surface lying substantially in flush relation with the adjacent outer surface of the main body portion and of such cross-sectional dimension and shape that when in extended position it will provide for sliding a collar member longitudinally thereof, a collar on said main body portion in relatively intimate sliding contact therewith, said main body portion having an enlarged portion on the side thereof opposite its head section and spaced rearwardly of the inner end of the arm, a coil spring on said main body portion having one end engaging a contact surface on the collar and its opposite end engaging the enlarged member and being adapted to normally urge the collar into engagement with inner side surfaces of the comating semi-circular head sections for locking said sections in said relation, said collar being retractable, through compression of the coil spring to a position rearwardly of the pivot and the inner end of the arm to such extent as to permit the arm to be freely swung in a sidewise direction to position the head sections in offset relation and when said compression on the spring is released said collar, responding to the function of the resilient means, being adapted to automatically align the arm with the body portion and rigidly retain the head sections in comating relation.

2,591,789
APPARATUS FOR REDUCING METALLIC OXIDES
Fredrik W. de Jahn, New York, N. Y., assignor to H. A. Brassert & Company, New York, N. Y., a corporation of Illinois
Application June 24, 1948, Serial No. 34,925
4 Claims. (Cl. 266—29)



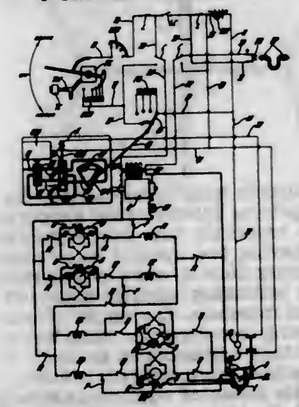
1. In apparatus for reducing metallic oxide at a temperature below the fusion temperature of the oxide and the reduced oxide, the combination of a substantially vertical furnace shaft, means for charging the metallic oxide to the upper end of said shaft, at least one vertical tube within said shaft and having a discharge opening near the lower end of said shaft, reducing gas outlets spaced around the periphery of said shaft near the lower end thereof, a source of preheated reducing gas connected to said peripheral gas outlets and to the upper end of said tube, whereby the reducing gas is simultaneously discharged through said peripheral gas outlets and conducted downwardly through said tube for discharge near the lower end of said shaft and a discharging mechanism at the bottom of said shaft operated in timed relation to said charging means to discharge the reduced solid oxide from said shaft at a rate to maintain said shaft substantially full.

2,591,790
RADIO AND TELEVISION ANTENNA
Alfred C. Denson, Rockville, Conn.
Application December 23, 1948, Serial No. 67,029
2 Claims. (Cl. 250—33)



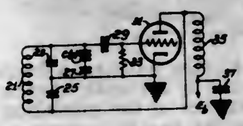
2. An antenna of the character described comprising an insulating sleeve, a straight tubular bar mounted over and projecting from each end of said sleeve, a U-shaped tubular vane pivotally connected to each tubular bar with the legs of the vane straddling the bar and in contact with opposite sides thereof, a Q-bar connected to each of said tubular bars and vanes by means of a connector projecting from the end of each Q-bar and extending through the legs of its corresponding vane and tubular bar and insulating sleeve and thereby mounting and electrically connecting a Q-bar, a vane and a tubular bar as a unit of the antenna.

2,591,791
DYNAMIC BRAKING CONTROL
Richard M. Dilworth, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 14, 1949, Serial No. 132,849
9 Claims. (Cl. 290—3)



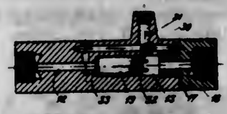
1. A locomotive dynamic braking system comprising an electric traction motor having an armature for driving and for being driven by the locomotive, and a field winding, a braking resistor connected directly across the motor armature, a prime mover generator power plant, power connections interconnecting the power plant generator and motor field winding, power output regulating means for the power plant and means responsive to the current generated by the motor armature in the braking resistor for controlling the power output controlling means of the power plant to limit the current generated in the motor armature and braking resistor and thereby limiting braking force exerted by the motor armature when driven by the locomotive.

2,591,792
FREQUENCY STABILIZATION OF RADIO FREQUENCY GENERATORS
Hugh L. Donley, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 31, 1947, Serial No. 765,213
13 Claims. (Cl. 250—36)



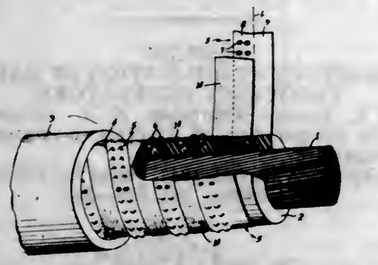
1. A network for stabilizing the frequency of a thermionic tube oscillator normally responsive to variations in energizing potentials, said oscillator including a resonant circuit, said network including a capacitive device having a ceramic titanate dielectric, said device having a capacitance directly responsive to variations in said energizing potentials, and means for coupling said device in shunt with a portion of said resonant circuit to compensate for said frequency variations.

2,591,793
DEVICE FOR ADJUSTING THE RETURN TRAVEL OF FLUID ACTUATED MEANS
Maurice Odile Dubois and Bernard Maurice Dubois, Soisy-sur-Montmorency, France
Application February 26, 1947, Serial No. 731,154
In France November 28, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires November 28, 1965
2 Claims. (Cl. 60—54.5)



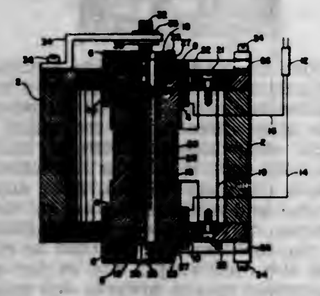
1. A device adapted to provide automatically a return travel of given amplitude in a mechanism controlled in one direction by a pressure fluid and in the other direction by retracting means, said device comprising a cylinder having an opening at both ends, means for respectively connecting said openings with a fluid supply on the one hand and said mechanism on the other hand, a piston of yieldable material slidably received in the cylinder and adapted to close the opening of the fluid supply and of the cylinder when completely moved towards the same, said piston having a peripheral annular lip adapted to be normally in tight relation with the wall of the cylinder and to move off said wall for passing fluid when fluid pressure is applied on the supply end of the piston, the length of the cylinder being such that the volume variation of the chamber at the end of the piston opposite to the supply side when the piston is moved from one end of the cylinder to the other is equal to the volume variation in the controlled mechanism corresponding to the return travel of the machine.

2,591,794
GAS-FILLED POWER CABLE WITH EMBOSSED TAPE
Lawrence C. Ebel, Dobbs Ferry, N. Y., assignor to Anaconda Wire and Cable Company, a corporation of Delaware
Application July 17, 1948, Serial No. 39,279
3 Claims. (Cl. 174—25)



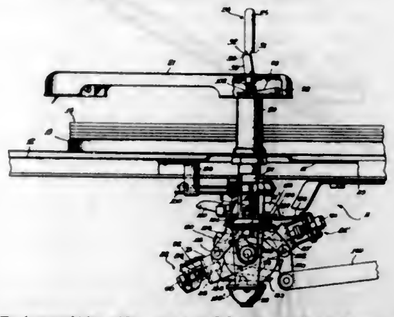
3. In a power cable having an insulated conductor surrounded by a sheath, means for spacing the outer surface of the insulation from the inner surface of the sheath to form a fluid passage therebetween comprising a metallic spacer tape wrapped helically about the insulation, said tape being formed with projections extending above the general surface level of one face thereof and having indentations corresponding to said projections in the other face thereof, said projections and corresponding indentations being formed only along one side portion of the tape, the other side portion thereof being substantially plane, the metallic spacer tape being applied to the insulation with the projections facing toward the sheath, and metallic tape being intercalated with a fluid-pervious electrically conducting tape which overlies the plane side portion of the metallic tape and underlies the indented side portions thereof.

2,591,795
VIBRATION DETECTOR
Joseph D. Eisler, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
Application November 15, 1949, Serial No. 127,373
6 Claims. (Cl. 177—352)



1. In a vibration detector the combination comprising means for producing a magnetic field including a permanent magnet, a hollow ferromagnetic core in said field, a helical spring in the hollow portion of said core disposed longitudinally of said core's axis, and a movable coil assembly suspended within said field at least in part by means of said helical spring the lower end of which is secured to the lower portion of said coil assembly.

2,591,796
INTERMITTENT OPERATING MECHANISM
Joseph Erwood, Crystal Lake, Ill., assignor, by mesne assignments, to William J. McGah, as trustee
Application June 21, 1947, Serial No. 756,273
2 Claims. (Cl. 274—10)

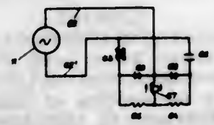


1. Intermittently operable mechanism, comprising a cam member having spherical sides formed with a helical cam shoulder, means to drive said cam member about a rotational axis, an actuating member rockable about an axis normal to and lying in a common plane with said rotational axis, said actuating member having portions disposed on opposite sides of said cam member and carrying clutch members projectable into driving engagement with said helical shoulder whereby to rock said actuating member on its axis.

2,591,797
COLLAPSIBLE TABLE
Marcus P. Exline and Charles L. Ruhl, Dallas, Tex.
Application October 24, 1946, Serial No. 705,351
1 Claim. (Cl. 311—79)

In a collapsible table construction, the combination comprising intercrossing supporting sections and a reversible top, said supporting sections each having two upright legs connected by upper and lower pairs of cross members, the ends of said legs extending slightly above the upper pair of cross members, the upper of said cross-members being recessed for interlocking relationship at their intersections to lie in the same horizontal plane in extended position, spring means on the lower of said cross-members for resisting relative disengagement of said cross-members, said top having recesses for receiving the upper ends of said legs extended above said cross-members, keepers embedded in one of the recesses of said top, a spring latch enclosed in one of the legs of said supporting structure having a portion extending into a keeper of said top for securing said top to said supporting structure and means protruding from said leg for releasing said latch.

2,591,798
ELECTRIC TACHOMETER
Jean Faure-Herman, Boulogne-sur-Seine, France
Application January 11, 1949, Serial No. 70,187
In France January 16, 1948
6 Claims. (Cl. 175—183)



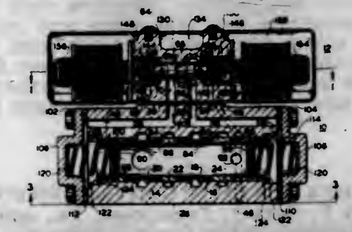
1. In an electric tachometer, means for producing an alternating electric current, the voltage and the frequency of which are proportional to the speed to be measured, two different loading circuits connected to the alternating electric current producing means to be energized thereby, said loading circuits being such that the electric currents which flow through the same vary according to different laws as functions of the frequency and the voltage applied across the same, and means for linearly measuring the algebraic difference of the currents which flow through the two loading circuits in order to deduce the speed variation about a considered value for which the algebraic difference is zero.

2,591,799
CONSTRUCTION OF SLIPS
Anna Friedman, New York, N. Y.
Application October 24, 1950, Serial No. 191,825
4 Claims. (Cl. 2—73)



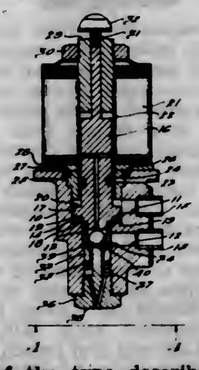
1. A combination slip and brassière garment consisting of a brassière comprising a front and a back brassière portions being made of cloth cut on the bias, the respective side edges of said front and back portions being joined together, the lower edges of said brassière front and back portions being located all around and just beneath the bust line of the wearer, and a close fitting princesse body member attached at its upper edges to the lower edges of said brassière member, said body member being made of a single blank of cloth, cut on the bias and having a single seam at the back of said body member, said back seam extending the full length of said body member, being smooth and unbroken throughout its length, said body member being formfitting and having no waist line, said body member extending from below the bust line of the wearer to a point below the knee and above the ankle of the wearer.

2,591,800
HYDRAULIC CONTROL VALVE
Duncan B. Gardiner, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application March 13, 1947, Serial No. 734,371
8 Claims. (Cl. 121—46.5)



6. A directional control valve housing comprising a body including a first and a second opposed, flat surface area, a valve receiving bore extending through the body including a plurality of spaced apart valve ports, a plurality of passages connected to the valve ports and extending to the first surface area, means for closing each end of the bore and forming chambers at opposite ends thereof, a pilot return passage opening to the second surface area, a pilot pressure passage extending from the first surface area to the second surface area, said pilot pressure passage also being connected to one of the valve ports, means for opening and closing communication between said said valve port and said passage, and separate passages extending from the second surface area to the chambers.

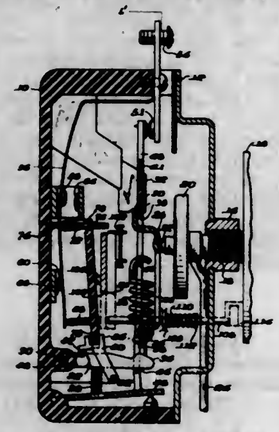
2,591,801
VALVE STRUCTURE
Lawrence H. Gardner, Lakewood, Ohio
Application June 11, 1949, Serial No. 98,589
7 Claims. (Cl. 137—144)



1. A valve of the type described comprising a valve body having a central passage therethrough, an inlet port and a work port in said body communicating with said passage, an annular valve seat formed within said passage between said ports, a valve member arranged for reciprocal movement within said passage and having an enlarged annular shoulder at the end thereof adjacent said valve seat, said shoulder having an annular sealing ring in the face pre-

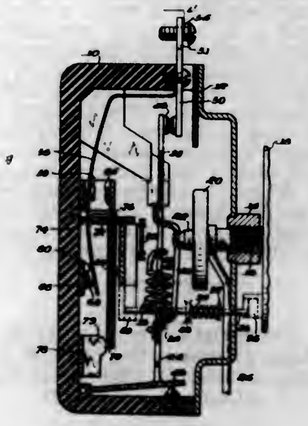
sented toward said valve seat engageable with said valve seat for closing said passage between said ports, said valve member being held in engagement with said valve seat by fluid pressure from said inlet, a solenoid secured on one end of said casing operative upon said valve member to disengage the same from said valve seat, a plug in the other end of said casing having an exhaust port therein in communication with said work port when said valve is in its closed position, a hollow sleeve carried by said valve member on the end thereof adjacent said valve seat, said hollow sleeve being slidingly disposed through said passage in said casing and having an annular valve seat formed therein, a stem on said plug extending into said sleeve and supporting a ball within said sleeve, said ball being engageable with said valve seat in said sleeve for sealing off said work port from said exhaust port when said valve member is disengaged from its seat.

2,591,802
THERMOSTATIC CONTROL SWITCH
Russell F. Garner, Youngwood, Pa., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application February 15, 1950, Serial No. 144,318
18 Claims. (Cl. 200—140)



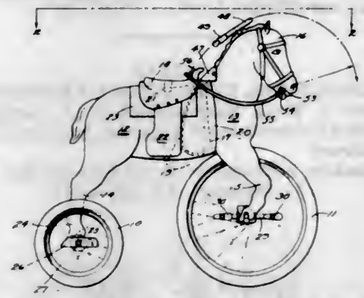
15. A thermostatic control device comprising a main switch, temperature responsive means for operating said main switch, an elongated flexible switch arm connected at one end to said main switch, first contact means initially spaced from one side of said switch arm, second contact means positioned on the opposite side of said switch arm and longitudinally spaced from said first contact means, said switch arm having an inherent bias toward engagement with said second contact means, third contact means positioned adjacent said first contact means but beyond the range of movement of said switch arm, a second flexible switch arm connected to said first contact means and having an inherent bias toward engagement with said third contact means, means on said first switch arm operatively engageable by said second switch arm, a toggle plate operatively engageable with both said switch arms, means for operating said toggle plate in one direction for moving the first said switch arm into engagement with said first contact means and moving said second switch arm out of engagement with said third contact means, said first switch arm being bowed by operation of said toggle plate between said connected end thereof and said first contact means for disengaging said second contact means, and latching means for said toggle plate effective upon movement thereof in another direction for maintaining said engagement between said first switch arm and said first contact means while said switch arm returns under said bias thereof toward engagement with said second contact means, said latching means being effective for maintaining said second switch arm out of engagement with said third contact means.

2,591,803
THERMOSTATIC CONTROL SWITCH
Russell F. Garner, Youngwood, Pa., assignor to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application February 15, 1950, Serial No. 144,319
15 Claims. (Cl. 200—140)



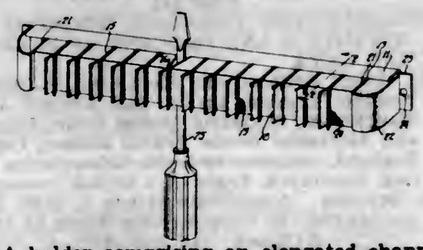
9. A thermostatic control device comprising a casing having a plurality of fixed contacts mounted thereon, a double-pole contact bridge assembly cooperable with said fixed contacts to form a main control switch, snap-action means operatively associated with said main control switch, temperature responsive means for operating said snap-action means, a pair of flexible switch arms each secured at one end to one of said contact bridges and extending rearwardly into said casing, a second plurality of fixed contacts mounted in said casing, said second fixed contacts being disposed one pair to each of said switch arms on opposite sides thereof and spaced longitudinally from each other, said switch arms each having an inherent bias for closing one of said contacts of each pair of said second fixed contacts and being spaced from the other one of said pair for opening the same, a toggle plate member operatively engageable at one end with said pair of switch arms, a support extending from said casing between said switch arms and upon which said member is mounted at said one end for slidable movement toward said switch arms, a stop mounted in said casing for cooperation with the opposite end of the member, actuating means operatively engageable with said member at the median portion thereof for moving the same to operate said switch arms against said bias for closing the other contacts of said pair of second fixed contacts, a handle for adjusting said temperature responsive means, and connecting means between said handle and said actuating means operative in one position of said handle for initiating said movement of said switch arms.

2,591,804
ANIMATED WHEELED TOY
John H. Gonda, Salem, Ohio
Application February 24, 1951, Serial No. 212,586
3 Claims. (Cl. 280—1.188)



1. In a wheeled toy including a two-part body simulating the front and rear portions of an animal, an axle and wheels disposed beneath the rear body portion and a crank and wheel disposed beneath the front body portion and a pivot interconnecting the said front and rear body portions, said front body portion having spaced depending legs, the said crank and wheel being positioned between the said spaced legs, the said legs including means for adjusting the said crank vertically with respect to the said legs, said means comprising retainer plates secured to the said legs in oppositely disposed relation, each of the said retainer plates having a horizontally flanged upper edge and a vertically flanged rear edge and a bearing retainer member and bolts securing the said bearing retainer member to said retainer plate, the said crank having bearing assemblies spaced thereon and positioned in said bearing retainers.

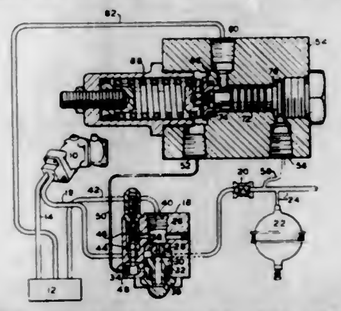
2,591,805
HOLDER FOR IMPLEMENTS
Homer E. Gossett, Portland, Oreg.
Application June 23, 1950, Serial No. 169,851
4 Claims. (Cl. 211—89)



2. A holder comprising an elongated channel having the edges of the sides of the channel inturned, laterally notched face plates engaging said inturned edges and slidable therebetween, resilient blocks between and secured to each adjacent pair of plates and means for confining said blocks and plates within said channel.

2,591,806
POWER TRANSMISSION
MacKellar K. Graham, Detroit, Mich., assignor to Vickers Incorporated, Detroit, Mich., a corporation of Michigan
Application May 8, 1946, Serial No. 668,121
7 Claims. (Cl. 103—42)

1. In combination with a pressure relief valve of the type which is balanced as to opposing pressure forces and having a control chamber ventable at a predetermined pressure for unbalancing the pressure forces and causing the relief valve to by-pass excessive pressure fluid, a valve having a control port connected to the control chamber of the relief valve, a pressure port, a venting port, a poppet valve for controlling communication between the control port and the venting port including means biasing the valve to the



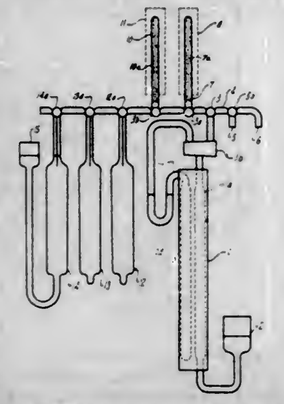
closed communication position, and means responsive to predetermined pressure increases at the pressure port lower than the first mentioned pressure for shifting the poppet valve to open communication between the control port and the venting port thereby opening communication between the venting port and the control chamber of the relief valve for causing the pressure forces on the relief valve to become completely unbalanced.

2,591,807
OIL WELL CEMENTING
Haskell M. Greene, Whittier, Calif.
Application August 23, 1947, Serial No. 770,239
7 Claims. (Cl. 166—1)



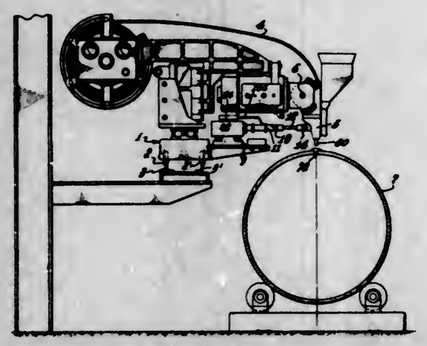
3. The method of depositing cement in a zone within a well bore, that includes lowering in the well to said zone a vertically elongated body of cement, creating an explosive force at the lower portion of said body, cavitating the bore wall adjacent said lower portion of the body by said force, creating above said body and below a location where said bore is to be plugged a second and sequential explosive force, and forming at said location a plug across the bore and displacing and compacting the cement against the bore wall at said zone by virtue of said second explosive force.

2,591,808
METHOD OF MAKING ANALYSIS OF COMPOSITE GAS MIXTURES
Lloyd V. Guild, Pittsburgh, Pa., assignor to Burrell Corporation, a corporation of Pennsylvania
Application November 3, 1948, Serial No. 58,131
1 Claim. (Cl. 23—232)



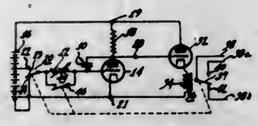
The method of determining the amount of combustible components in a gas mixture which comprises passing a sample through a copper oxide tube to determine the amount of hydrogen at approximately 300° C., measuring the volume of the remaining sample, mixing it with oxygen, and passing it through a platinum catalyst tube containing from .5% to approximately 3% platinum deposited on a pumice stone carrier at a temperature of from 100° C. to 600° C. to determine the amount of hydrocarbons present in the sample.

2,591,809
APPARATUS FOR WELDING SEAMS IN CYLINDRICAL VESSELS
Roy E. Hanson, Altadena, Calif.
Application July 25, 1949, Serial No. 106,665
2 Claims. (Cl. 219—8)



1. In an apparatus for welding a longitudinal seam in a cylinder formed of metal plate, an electrode carriage arranged for linear movement parallel to the seam to be welded, a welding head pivotally suspended from said carriage and carrying a welding electrode at its free end, and means for imparting reciprocating motion to the welding head in a plane transverse to said seam, said means including a cylinder having a longitudinal slot formed in the inner wall thereof and a piston slidably mounted for reciprocating travel within the cylinder and provided with a piston rod connected to said welding head, said slot being of substantially uniform depth throughout the central approximately one-third of the travel of the piston and of progressively diminishing depth in each longitudinal direction from said central one-third.

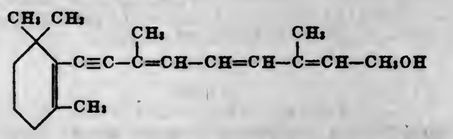
2,591,810
ELECTRICAL TIME-DELAY NETWORK
Stephen V. Hart, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 25, 1948, Serial No. 51,233
13 Claims. (Cl. 250—36)



13. An oscillatory relay control circuit comprising an electronic tube having an anode, a grid, and a cathode, a capacitor connected between said anode and said grid, a source of operating voltage for said circuit, connections from said anode and said cathode to said source, a variable resistor connected to said grid, switching means for establishing alternative circuits from said grid to first and second voltage points on said source, switching means coupled to said first named means and connected in parallel with said resistor for shorting said resistor when said first named switching means establishes a circuit to said first voltage point, and an output circuit for said tube including a current sensitive relay having an operating winding and a movable element adapted to be actuated by changes in current through said winding, said element being linked to said first named switching means and being adapted to cause actuation thereof in response to movement of said element.

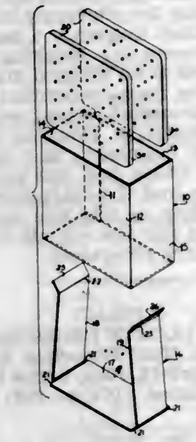
2,591,811
UNSATURATED CARBINOL RELATED TO VITAMIN A AND PROCESS OF PREPARING SAME
Ian Morris Heilbron and Basil Charles Leicester Weedon, London, Ewart Ray Herbert Jones, Manchester, Benjamin Arthur Hems, Northolt, and Alexander Bertus Arnold Jansen, London, England, assignors to Glaxo Laboratories Limited, Greenford, England, a British company
No Drawing. Application March 7, 1950, Serial No. 148,266. In Great Britain March 22, 1949
9 Claims. (Cl. 260—617)

1. As a new compound, 3:7 - dimethyl - 1-(2':6':6' - trimethylcyclohex - 1' - enyl) - nona-3:5:7-trien-1-yn-9-ol represented by the following structural formula:



3. A process for the preparation of 3:7-dimethyl - 1 - (2':6':6'-trimethylcyclohex-1'-enyl)-nona-3:5:7-trien - 1 - yn - 9 - ol in which 3:7 - dimethyl - 1-(2':6':6' - trimethylcyclohex-1'-enyl)-nona-4:6:8-trien-1-yn-3-ol is treated with an aqueous acidic medium the pH of which is less than 7.

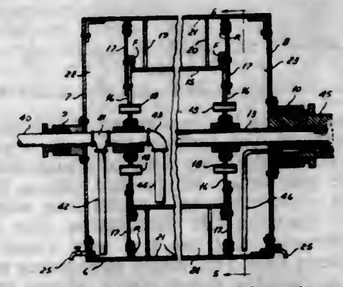
2,591,812
CARTON FOR MAKING ICE-CREAM SANDWICHES
Porter I. Henderson, Charlotte, N. C.
Application January 7, 1950, Serial No. 137,340
2 Claims. (Cl. 229—6)



1. A carton for ice cream sandwiches and the like comprising a rectangular sleeve having front and rear walls and a pair of end walls, a substantially U-shaped slide member having a rectangular base of the same size as the interior of the sleeve, said slide member being slidably positioned within said sleeve with the base thereof closing the bottom of said sleeve, said base being provided with an upstanding member pivoted on each end thereof, the edges of said upstanding members being spaced from the front and rear walls of the rectangular sleeve, the space between the edges of said upstanding members and the front and rear walls of said sleeve forming channels for the reception of wafers, said upstanding members being crimped intermediate their ends, said crimps serving to hold the upstanding members in spaced relation to the end walls of the sleeve and said upstanding members holding said wafers in spaced relation to each other to permit filling material to be placed therebetween to form a sandwich.

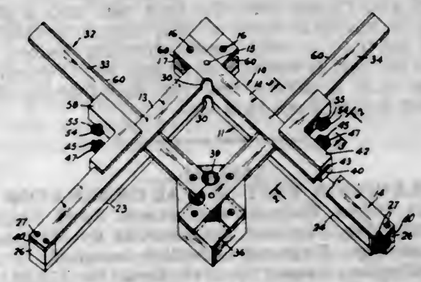
2,591,813
DECATIZING CYLINDER
Gustav G. Hennig, Paterson, N. J., assignor of one-half to C. Frederick Hennig, Paterson, N. J.
Application February 11, 1948, Serial No. 7,551
2 Claims. (Cl. 68—8)

1. In a decatizing cylinder construction, a hollow closed cylindrical body having peripheral and end walls, a pair of spaced radial partitions disposed within said body and secured to said peripheral wall in spaced relation to said end walls and with each partition being provided with a central opening, a steam chest secured within said body and extending through said openings in spaced relation with said end walls and coacting with the latter and said partitions to define condensing chambers at the ends of said body and a steam chamber between said condensing chambers, said steam chest having circumferential and end walls with the latter being provided with outlet ports communicating with said condensing chambers for supplying the latter with steam from said chest, said circumferential wall being coextensive with said steam chamber for drying steam in said steam chamber by heat radiated from said circumferential wall, said latter wall being spaced from said partitions and coacting therewith to define steam passages between said steam chamber and said condensing chambers whereby steam emitted into said con-



densing chambers through said ports passes into said steam chamber, said peripheral wall being formed with perforations between said partitions and communicating with said steam chamber for defining a cloth treating zone about said body for treating material disposed about said zone by steam from said steam chamber, and condensate removing means extending into at least one of said chambers for removing liquid from within said body.

2,591,814
HOLE LOCATING DEVICE
John W. Hill, Palisades, N. Y.
Application June 19, 1947, Serial No. 755,552
5 Claims. (Cl. 33—189)



1. A hole locating gauge comprising a relatively fixed square having arms with inner edges extending at right angles to one another, a relatively movable square with arms that slide both longitudinally and transversely with respect to the arms of the fixed square, a locater carried by the movable square adjacent its vertex, said fixed square having a recess at the vertex of the angle formed by the inner edges of the fixed square with one another, the recess being large enough to receive the portion of the locater on one side of a center axis of the locater, said movable square being movable along the arms of the fixed square into a position with said axis of the locater at said vertex, blocks on two of said arms for limiting the sliding movement of the movable square with respect to the fixed square, each of said blocks being slidable along its associated arm independently of the movement of the other block, and means for clamping each of the blocks in selected positions lengthwise of the arm on which it slides.

2,591,815

APPARATUS FOR TREATING FABRICS IN CONTINUOUS LENGTHS WITH LIQUIDS

Thomas H. Hilliard, Drummondville, Quebec, Canada, assignor to Celanese Corporation of America, a corporation of Delaware

Application November 3, 1947, Serial No. 783,778
1 Claim. (Cl. 68—184)



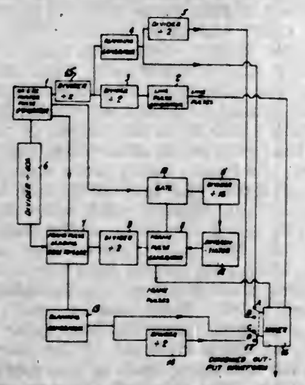
In apparatus for the treatment of fabrics with a liquid medium, the combination with a vat for holding a relatively large body of liquid medium, of a vessel positioned above said vat, a funnel operatively connecting said vessel and said vat, means for continuously circulating the liquid medium between said vat and said vessel at a predetermined rate, said liquid circulating means including a variable speed pump, piping on the suction side of said pump leading to said vat, and slotted discharge pipes in said vessel connected to said pump on the discharge side thereof, means, including a driven reel, for passing a fabric to be treated through said vessel and said funnel and into said vat in a vertical, downward direction, a curved guide plate in said vat contiguous to the discharge end of said funnel for receiving said fabric directly as it leaves said funnel, a pair of baffles dividing said vessel into separate, liquid-receiving compartments each containing one of said slotted discharge pipes, said baffles continuing downwardly below said vessel to form said funnel and being adapted to guide the fabric therebetween while directing the liquid medium flowing through said baffles against said fabric as it passes through the vessel and funnel into the said vat, and a plurality of baffles in each of said compartments at right angles to said vessel-dividing baffles to direct the liquid medium over said vessel dividing baffles, and a driven reel for withdrawing the treated fabric from said vat.

2,591,816

TELEVISION TEST SIGNAL GENERATOR

Ernest Oliver Holland and James Boyd Smith, Cambridge, England, assignors to Pye Limited, Cambridge, England, a British company

Application August 30, 1949, Serial No. 113,127
In Great Britain August 31, 1948
4 Claims. (Cl. 250—36)



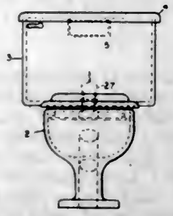
1. A television waveform generator, comprising a master pulse generator for generating a train of master pulses, means for generating a train of line synchronising pulses from said master pulses, means for generating a train of frame synchronising pulses from said master pulses, a first blanking generator for generating blanking pulses from said master pulses at an integral multiple greater than unity of the line repetition frequency, a first divider connected to said first blanking generator for producing blanking pulses at the line repetition frequency, a second blanking generator for generating blanking pulses from said master pulses at an integral multiple greater than unity of the frame repetition frequency, a second divider connected to said second blanking generator for producing blanking pulses at the frame repetition frequency, and means for selectively mixing either said line and frame synchronising pulses and the outputs from said first and second dividers, or said line and frame synchronising pulses and the outputs from said first and second blanking generators.

2,591,817

WATER CLOSET DEODORIZER

Floyd A. Huff, Mansfield, Ohio

Application April 10, 1946, Serial No. 661,001
8 Claims. (Cl. 4—228)



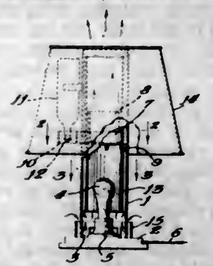
1. In combination with a flush tank having a removable cover therefor with a passage therebetween permitting entry of air into and exit of air from said tank, a substantially closed container for a volatile deodorant carried by one of the walls of the tank with one end portion of the container provided with an aperture aligned with said passage and in open communication with the exterior of the tank through said passage, the opposing end of said container having a plurality of apertures whereby air entering one end of the container passes through the deodorant before passing out of the other end of the container.

2,591,818

VAPORIZING DEVICE

Lyman C. Huff, Evanston, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application May 20, 1949, Serial No. 94,404
6 Claims. (Cl. 21—120)



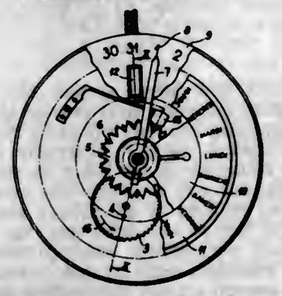
1. A liquid vaporizing apparatus comprising in combination an open-ended stack, an elongated liquid retaining and wick holding trough extending in a horizontally flat convolute form and positioned intermediately within said stack, a continuous band of wicking having its lower edge positioned within said trough, a liquid reservoir connecting to said trough, heating means within the lower portion of said stack below said trough, a stack supporting base and air inlet means at the lower end of said stack below said heating means.

2,591,819

CALENDAR TIMEPIECE

Marc Huguenin, Geneva, Switzerland, assignor to Montres Rolex S. A. (Rolex Watch Co. Ltd.), a corporation of Switzerland

Application February 13, 1951, Serial No. 210,664
In Switzerland February 16, 1950
3 Claims. (Cl. 58—58)



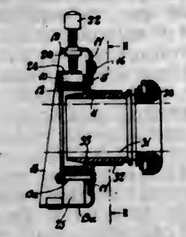
1. In a calendar time-piece comprising two concentric star wheels, the one for an indicator of the days of the month and the other for an indicator of the days of the week, a driving wheel for said star wheels, a pin on said driving wheel cooperating with the teeth of said star wheels, and a holding pawl cooperating with said star wheels for holding them in their rest positions, the arrangement being such that in these rest positions, one of said star wheels always has the center of one tooth situated on the line of centers of the star wheels and the driving wheel, while the other star wheel always has a center of one tooth situated slightly off of said line of centers, the arrangement further being such that the first star wheel is driven in both directions and the second star wheel is driven in only one direction by the displacements of the pin.

2,591,820

SUSPENSION MOUNTING FOR THE FOCUSSING DEVICE OF CATHODE-RAY TUBES

Donald Jackson, Cambridge, England, assignor to Pye Limited, Cambridge, England, a British company

Application January 28, 1949, Serial No. 73,347
In Great Britain February 7, 1948
9 Claims. (Cl. 313—84)



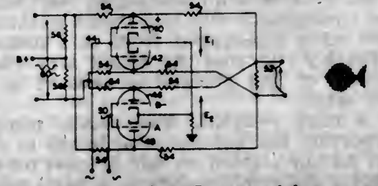
1. A suspension mounting for the magnetic focussing device for a cathode ray tube comprising, in combination, a bracket member having an attachment surface, a support member carried by said bracket member, an annular focussing device having an axis substantially parallel to said attachment surface, resilient means urging the focussing device in one direction transversely with respect to the axis of the focussing device, a screw carried by the bracket for moving the focussing device relatively to the support member in a direction opposing said resilient means, further resilient means urging the focussing device in a second direction transversely with respect to the axis of the focussing device and also transversely with respect to the direction in which the focussing device is adjustable on the support member, and a screw carried by the bracket for moving the support member relatively to the bracket against the action of said further resilient means.

2,591,821

MODULATOR CIRCUIT

Andrew B. Jacobsen, Somerville, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy

Application November 29, 1945, Serial No. 631,747
10 Claims. (Cl. 332—43)



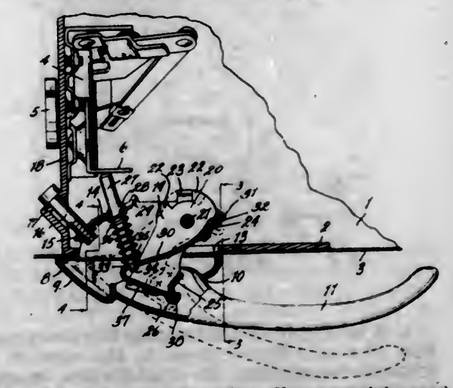
1. A modulating circuit comprising a source of alternating current potential, a source of modulating potential, a load circuit, a voltage divider resistance network including a plurality of variable impedance devices, means for connecting said load circuit to said variable impedance devices of said voltage divider, means for applying said alternating current potential to said voltage divider, and means responsive to said modulating potential for varying the impedance of said devices.

2,591,822

LATCH RELEASING DOOR HANDLE

Gerald V. Jakeway, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich.

Application January 24, 1949, Serial No. 72,377
11 Claims. (Cl. 292—336.3)



1. A latch releasing door handle comprising an escutcheon, an outwardly facing U-shaped

bracket connected thereto for assembly upon a door with the bracket projecting through an opening in the door, a handle, a pivot arm secured to the inner end of the handle to project inwardly therefrom and comprising spaced side members and inner and outer cross members extending between the rear edges thereof, the outer cross member having a rearwardly directed keeper portion, the pivot arm side members being disposed between the side members of the bracket and pivotally mounted thereon and having spaced stops on their inner ends, the bracket having a stop coacting with the stops of the arms to limit the swing of the handle, a latch actuating plunger reciprocatingly mounted on the bracket, a springable blade-like thrust member for said plunger disposed between the side members of said pivot arm on the inner side of said inner cross member and having an offset at its inner end engaged in an opening in the inner cross member whereby the thrust member is supported in fulcruming relation to the inner cross member and in thrust engagement with the plunger, the thrust member having an integral springable detent arm at its outer end terminating in an inwardly facing hook shaped keeper engaging jaw normally coacting with said keeper, a return spring for said plunger in thrust engagement therewith and in supported engagement with the bracket and maintaining the plunger in thrust engagement with said thrust member, said keeper being disengaged from said detent jaw and slidably engaging the detent arm when the actuation of the plunger is resisted as by a locked latch.

11. A latch releasing door handle comprising a supporting bracket for attachment to a door, a door handle pivoted on said bracket for swinging movement relative thereto, a latch actuating element mounted on said bracket, a return spring for said latch actuating element, and a spring operatively connected to said handle to be placed under actuating stress by the actuation thereof about the pivotal axis of the handle on said bracket and through which said latch actuating element is actuated when the resistance to the actuation of the latch actuating element is normal.

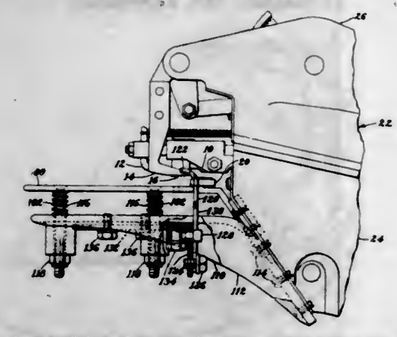
2,591,823

SHOE MACHINE

Walter J. Janas, Lewiston, Maine, assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application August 6, 1948, Serial No. 42,819

10 Claims. (Cl. 12—17)



1. A machine for conforming the marginal portion of a sole facing piece to the edge of a sole member comprising, in combination, means for tensioning said marginal portion of the facing around the edge of the sole member, successively, in different locations along the edge of the sole member, means for pressing the marginal portion of the tensioned facing against the sole member in each location, and a yieldably mounted table for supporting the sole member and its facing piece during the operation of said tensioning and pressing means.

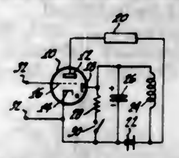
2,591,824

PULSE ENERGIZED GAS TUBE CIRCUIT

Edward Oscar Johnson, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 2, 1951, Serial No. 203,951

8 Claims. (Cl. 315—349)



1. A pulse energizing system for a gas-filled electron tube having a first pair of electrodes for passing ionizing current through the tube and having a second pair of electrodes including at least one electrode in addition to said first pair for passing current through the gas so ionized, a source of voltage of amplitude less than that required to ionize the tube gas, an inductor, a first circuit connecting said inductor to said source to establish current flow through said inductor, a second circuit connecting said inductor and said source between said first pair of electrodes, a circuit connecting said source between said second pair of electrodes, and means to interrupt the flow of current in said first circuit to develop a voltage sufficient to cause ionizing current flow between said first pair of electrodes.

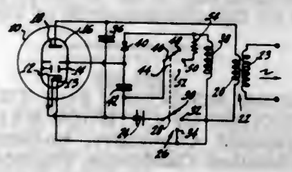
2,591,825

GAS TUBE CIRCUIT

Edward Oscar Johnson and William Merle Webster, Jr., Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application January 2, 1951, Serial No. 203,952

9 Claims. (Cl. 315—349)



1. In a gas tube voltage inverter system of the type comprising a gas tube having a plurality of electrodes including a thermionic cathode, and a source of voltage less than that required to ionize said tube gas, in combination, a circuit connecting one of said electrodes to said cathode through said voltage source, an inductor, a capacitor connecting said cathode to another of said electrodes, means connected to said voltage source and including said inductor for deriving from said voltage source a voltage of amplitude sufficient to ionize said tube gas, means connecting said voltage deriving means to said capacitor to store said derived voltage on said capacitor in proper polarity to draw ionizing electrons from said cathode to said another electrode upon heating of said cathode, and means including said voltage source for heating said cathode.

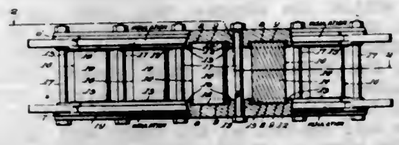
2,591,826

GALVANIC WATER CORRECTION DEVICE

Theodore C. Jones, Louisville, Ky.; Anna C. Jones, executrix of said Theodore C. Jones, deceased, assignor, by mesne assignments, to Electromatic Engineering Company, Inc.

Application January 3, 1946, Serial No. 638,744

3 Claims. (Cl. 204—248)



1. A self-contained electrolytic self-energizing correction device comprising: a pair of spaced electropositive main metallic elements having corresponding sockets in opposed relationship; an electropositive auxiliary metallic member for each socket, each auxiliary member being indented to provide a raised boss on one side and a corresponding recess on its opposite side, the raised boss being snugly fitted into said socket; an electronegative metallic element extending from one electropositive main element to the other with one end snugly fitted into a recess of one auxiliary member and with its opposite end snugly fitted into the recess of the auxiliary member in the opposed socket; and means for removably connecting the electroposilive main elements to each other to clamp the parts into a single unitary assembly.

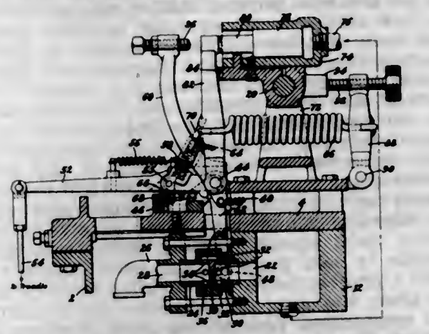
2,591,827

FLUID PRESSURE CONTROLLING MECHANISM

Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey

Application July 25, 1946, Serial No. 686,256

10 Claims. (Cl. 103—42)



1. In fluid-pressure-controlling mechanism, a pump for delivering fluid from a source of supply to develop fluid pressure, means providing a by-pass for return of the fluid to said source, a valve arranged to control said by-pass and to permit such flow of the fluid as to prevent the development of any substantial fluid pressure when the valve is fully open, means for moving said valve from an initial open position toward closed position to obstruct the flow and thus to cause the development of fluid pressure, and a member separate from said valve and movable by the pressure thus developed for moving the valve toward fully open position and for thereby limiting said pressure by holding the valve partially open.

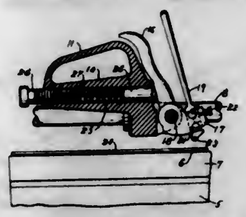
2,591,828

GLASS CUTTING DEVICE

Chester K. Judd, Jr., Bristol, Conn., assignor to The Fletcher-Terry Company, Forestville, Conn., a corporation of Connecticut

Application October 7, 1949, Serial No. 120,088

7 Claims. (Cl. 49—48)



1. A glass cutting board having a pair of parallel bars forming a supporting track, a cutter head including an elongated body portion disposed between and substantially parallel to said bars and having lateral extensions slidably mounted on said bars, a handle portion on said body for sliding it along said bars, a lever pivotally carried on said body between said bars and including a handle portion extending upwardly therefrom in front of the body and adjacent the handle thereon and a cutter receiving portion extending forwardly of said body, means in said cutter receiving portion for clamping a cutting device therein whereby a cutter wheel of said device projects downwardly from said cutter receiving portion, and a spring pressed plunger slidably contained in an opening extending longitudinally in said body and projecting therefrom into engagement with the handle portion of the lever for normally urging the lever about its pivot to move the said cutting wheel into engagement with a sheet of glass on the board; said cutting wheel being moved away from the glass by movement of the handle portion on the lever towards the handle portion on the body.

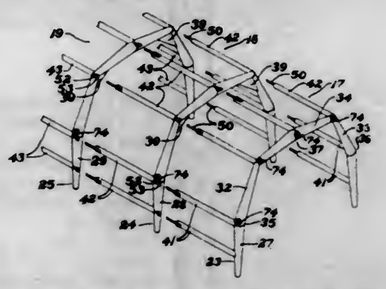
2,591,829

INFLATABLE SECTIONAL TENT

Edwin B. Katzenmeyer, Akron, and Carroll P. Krupp, Cuyahoga Falls, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application November 1, 1950, Serial No. 193,348

15 Claims. (Cl. 135—1)



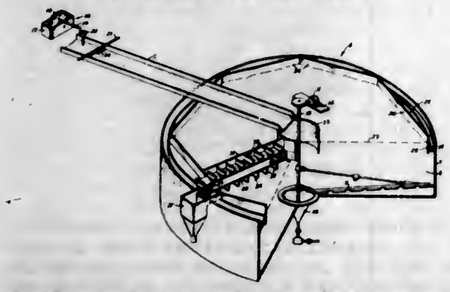
1. An inflatable shelter comprising a sectional covering having sections of flexible material providing sidewalls and roof of the shelter, an inflatable tubular supporting framework having an articulated sectional construction and arrangement disposed in supporting relation to said covering at the sidewalls and roof portions thereof to maintain the flexible covering upright, and means for inflating said supporting framework.

2,591,830

RECOVERY OF RESINS FROM COAL

Ernest Klepetko and Philip de B. Kaye, Bauer, and Lester J. Hartzell, Jr., Tooele, Utah, assignors to Combined Metals Reduction Company, Stockton, Utah, a corporation of Utah

Application July 25, 1946, Serial No. 686,132
3 Claims. (Cl. 209—166)



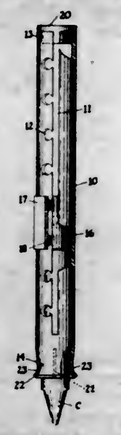
1. The method of washing raw slimy resin-bearing coal to prepare a clean coal product free from coal slimes, and simultaneously recovering the resin content of the coal in the form of a resin concentrate, which comprises flowing a stream of an aqueous pulp of the raw coal to a substantially quiescent body thereof, incorporating a frothing agent in the flowing stream of coal pulp, aerating the pulp, holding the pulp in said substantially quiescent body for a substantial period of time with the result that a resin concentrate froth collects at the surface of said body while fine coal particles settle from the coal slimes to the bottom thereof, withdrawing a fine coal product substantially free of slimes from the lower portion of said body, skimming the froth of resin concentrate from the surface of said body, and separately withdrawing the bulk of the aqueous phase of the pulp with the coal slimes suspended therein from said body at a level just below the level at which the froth is skimmed.

2,591,831

CRAYON OR THE LIKE HOLDER AND FEEDING TUBE

Gilbert B. Knuff, Cleveland, Ohio

Application December 10, 1948, Serial No. 64,651
2 Claims. (Cl. 120—13)



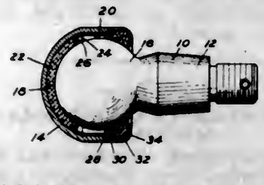
1. A holding device for crayons or the like comprising a tubular holder of substantially light material, said holder being provided with a muzzle end, said muzzle end having a portion of relatively less diameter than the remainder of the holder portion, an elongated longitudinally disposed keyway in the holder extending approximately from the muzzle end thereof to the opposite end of the holder, notches disposed at one side of said keyway and communicating therewith, said notches having a constricted portion adjacent said keyway, a guide telescoped within the holder and adapted to have reciprocal movement within the keyway, said guide carrying means protruding through said keyway and being manually reciprocably and laterally movable within the keyway, and into selective locking engagement with said notches, the said muzzle end of the holder being slotted throughout its length and opened at the outer end thereof, whereby when a crayon element whose outside diameter is slightly greater than the diameter of the muzzle portion is projected into the muzzle end of the holder, said crayon is yieldably and expansibly received and retractively gripped by the relatively embracing portions of the muzzle.

2,591,832

SELF-LUBRICATING RADIAL AND THRUST BEARING

Axel W. Kogstrom, Detroit, Mich., assignor to O. & S. Bearing Company, Detroit, Mich., a corporation of Michigan

Application October 4, 1946, Serial No. 701,174
6 Claims. (Cl. 287—90)



6. A self-lubricating bearing for absorbing both radial and thrust loads comprising an inner member of longitudinally varying contour having an enlarged portion with a reduced portion on each side thereof, an outer member around said inner member relatively rotatable in spaced relation thereto, lubricant impregnated fibrous material compressed between the reduced portions of said inner member and the outer member and comprising separate pieces positioned in spaced relation on said reduced portions and both extending circumferentially of the inner member, and a spacer member of rigid material spaced radially from the inner member and exerting edgewise compressive force on one of said pieces, said spaced member being positioned relative to said piece by the outer member to exert a predetermined compressive force on said one piece, the other of said pieces being retained and compressed against the inner member independently of said spacer member by a portion of the outer member, the compression of the second piece being independent of that of the first piece.

2,591,833

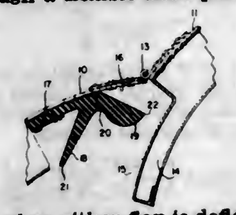
SEAL

Rodney Kreimendahl, North Hollywood, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application September 15, 1948, Serial No. 49,419
2 Claims. (Cl. 20—69)

1. As an article of manufacture, a double-acting sealing strip comprising a rubber-like member having a base portion for mounting thereof, a first flap integral with an overlying

said base portion and extending at an acute angle to said base portion, a second flap integral with and projecting forwardly and laterally from one edge of said base portion at an obtuse angle to said base portion, said flaps being connected to and merging with one another and with said base portion through a flexible neck portion for con-



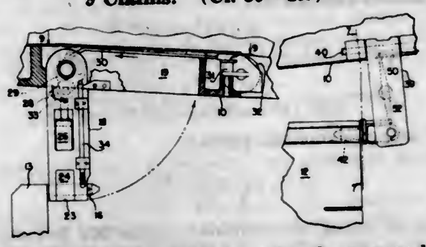
joint action when either flap is deflected from its normal position, the adjacent surfaces of the two flaps being disposed at an obtuse angle to one another and the second flap projecting forwardly of the adjacent surface of the first flap whereby both flaps may contact at spaced points a closure surface parallel to the surface on which the base strip is mounted.

2,591,834

RETRACTABLE ROCKET LAUNCHER

George J. Kuka, Burbank, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application July 21, 1948, Serial No. 39,943
9 Claims. (Cl. 89—1.7)



1. Retractable supporting means for suspending rockets and the like beneath an airplane wing, comprising a front post pivoted to retract into a pocket flush with the surface of the wing when not in use, a pair of spaced rear posts also pivoted to retract into pockets flush with the surface of the wing, down-locks to retain said posts in extended position, means cooperating with said down-locks and arranged to contact a mounted rocket or the like whereby to release said down-locks upon mounting a rocket or the like on said posts and means for releasably suspending a rocket or the like from said posts.

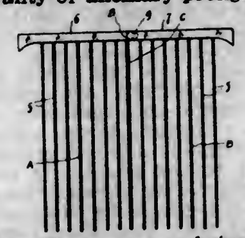
2,591,835

HAIR PARTING DEVICE

John Lakeland, Toronto, Ontario, Canada

Application August 18, 1950, Serial No. 180,111
3 Claims. (Cl. 132—45)

1. A hair parting device comprising a pair of elongated holders in the form of rigid grasping members arranged in end to end relation, interfitting means on the inner ends of said holders by which they are interconnected and capable of being detached readily by pulling them apart, a main hair parting prong rigidly carried by each holder, said prongs being located at the inner ends of said holders immediately adjacent to each other and co-extensively arranged, said prongs consisting of long slender members of stiff material for passing through the hair immediately adjacent to the scalp to create a parting, and a plurality of ancillary prongs on the hold-



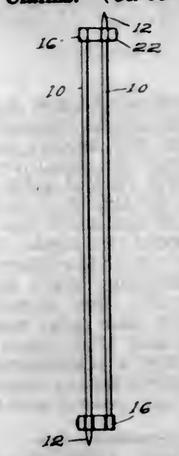
ers, said ancillary prongs being arranged in spaced parallel relation and in a plane containing said main prongs to co-extend therewith.

2,591,836

KNITTING NEEDLE CLIP

Emma V. Landon, Sun Valley, Calif.

Application July 13, 1949, Serial No. 104,441
2 Claims. (Cl. 66—117)



1. A guarded knitting needle having a clip fastened to one end, the clip comprising a bifurcated spring-like structure and including opposed semi-circular portions for the reception of the opposite end of a similar needle and having flared extensions for ready insertion of the opposite end of said similar needle, whereby an associated structure of a pair of needles results for ready handling and transportation.

2,591,837

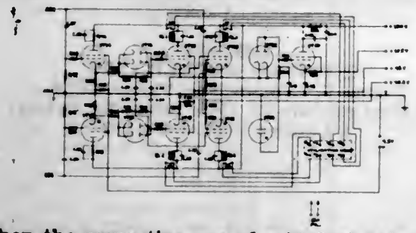
METHOD AND APPARATUS FOR SIGNALING EMPLOYING POLARIZED LIGHTS

Paul H. Lee, Cambridge, Mass., assignor, by mesne assignments, to the United States of America, as represented by the Secretary of the Navy

Application March 27, 1946, Serial No. 657,577
2 Claims. (Cl. 250—7)

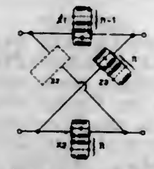
1. In a light sensitive receiver, a first and a second light sensitive device each responsive to individualized signals thereto, an amplifier responsive to the difference in response of said first and second light sensitive devices to produce a signal whose polarity depends upon which of said light sensitive devices is producing the stronger response, a first pair of normally non-conducting grid controlled gas tubes connected to said amplifier and responsive to the polarity

of a signal from said amplifier to render one or the other of said tubes conducting, and means responsive to the conduction of one tube to render the other tube unresponsive to signals from said amplifier, a short time interval charging circuit and a long time interval charging circuit connected with each of said first pair of gas tubes, a second pair of normally non-conducting gas tubes having control grids connected to said long time interval charging circuits respectively, a third pair of normally non-conducting gas tubes each having a control grid and a biasing grid, said biasing grids being normally biased to render said tubes non-responsive to the control grids and connected with said short time interval charging circuits respectively to render said third pair of tubes responsive to said control grids



when the respective one of said first pair of gas tubes is conducting, means responsive to conduction of any one of said second and third pairs of gas tubes to render the remainder of said tubes unresponsive to the control grids thereof, and connections from the output of said amplifier to the control grids of said third pair of gas tubes, whereby a sequence of two signals from said amplifier will render one or the other of said third pair of tubes conducting while a single signal will render one or the other of said second pair of tubes conducting, time delay means to render said first, second, and third pairs of gas tubes non-conducting after a predetermined time interval, and utilization means connected in the output circuits of said second and third pairs of tubes.

2,591,838
WAVE FILTER
Robert Pierre Leroy, Paris, France, assignor to Compagnie Generale d'Electricite, Paris, France, a corporation of France
Application February 5, 1947, Serial No. 726,503
In France August 23, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires August 23, 1965
8 Claims. (Cl. 178—44)



1. An electrically symmetrical band pass filter characterized by the fact that it consists of a lattice cell comprising two opposite identical branches and two opposite unlike branches, and that it contains a total of four inductances and four capacitances and

$$2m-1-\sin^2\frac{mn}{2}$$

resonant circuits, m being the total number of zeros and poles of the characteristic attenuation function inside the pass band, whose characteristic impedance Z varies as a function of the angular frequency ω according to the formula:

$$Z=\frac{p}{C\sqrt{(p^2\mp\omega_a^2)(p^2+\omega_\beta^2)}}$$

p designating the quantity $j\omega$ and C being a constant, and whose attenuation function is

$$\tanh\frac{P}{2}$$

the real part of P being equal to the characteristic attenuation and its imaginary part or characteristic phase shift—which varies as a function of ω according to the formula

$$\tanh\frac{P}{2}=\frac{HU_n}{V_n}\sqrt{\frac{p^2+\omega_\beta^2}{p^2+\omega_a^2}}$$

where H is a constant and

$$U_n=(p^2+\omega_2^2)(p^2+\omega_4^2)\ .\ .\ .\ (p^2+\omega_{2n}^2)$$

$$V_n=(p^2+\omega_3^2)(p^2+\omega_5^2)\ .\ .\ .\ (p^2+\omega_{2n+1}^2)$$

$\omega_2, \omega_3, \ldots \omega_{2n+1}$ being the angular frequencies between ω_a and ω_β and arranged in the order of increasing values, for which the characteristic phase shift takes values which are multiples of π, said filter being characterized by the fact that the equal and opposite branches are made up of reactances equal to

$$\frac{pV_n}{HC(p^2+\omega_\beta^2)U_n}$$

and that the other opposite branches are reactances defined by:

$$x_1=\frac{p(H^2U_n+k_1^2V_n)}{CH((p^2+\omega_a^2)V_n-k_1^2(p^2+\omega_\beta^2)U_n)}$$

$$x_2=\frac{p(H^2U_n-k_1^2V_n}{CH((p^2+\omega_a^2)V_n+k_1^2(p^2+\omega_\beta^2)U_n)}$$

k_1^2 being a constant equal to

$$\sqrt{H\frac{\sigma_1^2-\omega_a^2}{\omega_\beta^2-\sigma_1^2}}$$

and σ_1 being the angular frequency between ω_a and ω_β for which the following expression becomes zero:

$$H^2(p^2+\omega_\beta^2)U_n^2+(p^2+\omega_a^2)V_n^2$$

the reactance x_2 including, then, under the following condition,

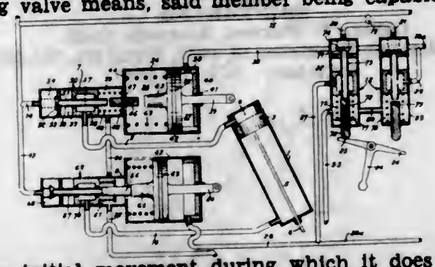
$$k_1^2<\frac{\omega_a^2\omega_3^2\ .\ .\ .\ \omega_{2n+1}^2}{\omega_2^2\omega_4^2\ .\ .\ .\ \omega_\beta^2}$$

necessary for the filter to be physically realisable, $n-1$ resonant circuits only in its "shunt" realisation, in addition to an inductance and a capacitance, while the other branches comprise n resonant circuits, in addition to the same elements.

2,591,839
RETRACTABLE LANDING GEAR FOR AIRCRAFT
René Lucien Levy, Paris, France, assignor to Societe d'Inventions Aeronautiques et Mecaniques S. I. A. M., Geneve, Switzerland, a corporation of Switzerland
Application May 27, 1946, Serial No. 672,510
In France January 7, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires January 7, 1962
6 Claims. (Cl. 60—51)

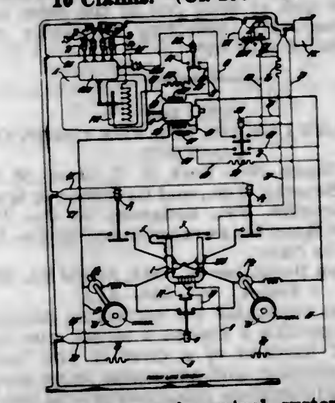
4. In a retractable landing gear, a hydraulic jack, an accumulator adjacent said jack, hydraulic connections between said jack and said accumulator, operating valve means in said connections to enable the accumulator when charged

to operate the jack under control of the operating valve means, hydraulic actuating valve means and a source of pressure, piping independently connecting said accumulator and said actuating valve means with said pressure source and said actuating valve means with said operating valve means, locking means for retaining said gear in a fixed position, said operating valve means including a member movable responsive to fluid flow through said piping independently connecting said actuating valve means with said operating valve means, said member being capable of



an initial movement during which it does not affect said valve means, and a subsequent movement during which it affects said valve means to permit fluid flow from said accumulator to said jack, a mechanical connection between said member and said locking means and movable in response to the initial movement of said member to unlock said locking means whereby upon operation of said actuating valve means said member moves to initially unlock said locking means and thereafter to control said operating valve to permit fluid flow from said accumulator to said jack to move said gear.

2,591,840
GENERATING ELECTRIC TRACTION AND CONTROL SYSTEM
Torsten O. Lilliquist, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 2, 1948, Serial No. 156
10 Claims. (Cl. 105—73)

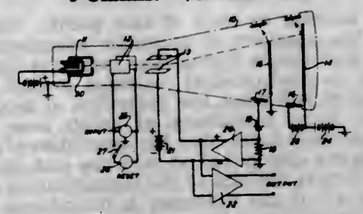


1. In a traction and control system, a generating electric power plant, means for reducing the power output thereof, a pair of electric traction motors, power connections including switching means for connecting the motors in series or parallel power circuit relation with the power plant and a relay for controlling the power plant output reducing means, said relay having magnetizable means directly associated with said power connections and an electromagnetic winding on said magnetizable means and connected to said power connections by said switching means to cause said relay to act in response to unbalanced electrical conditions between the motors when connected in either power circuit relation with the power plant to cause a reduction in the output thereof and check further unbalance between the motors and to restore the balance therebetween and the power output thereto.

2,591,841
HYDROHALOGENATION OF UNSATURATED CONJUNCT POLYMERS
Carl B. Linn, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 1, 1949, Serial No. 119,199
9 Claims. (Cl. 260—663)

1. A process for producing an organic halide which comprises reacting an addition complex of hydrogen fluoride and a polyolefinic cyclic hydrocarbon with a hydrogen halide of a halogen selected from the group consisting of chlorine, bromine, and iodine.

2,591,842
ELECTRON DISCHARGE APPARATUS
Frederick B. Llewellyn, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 6, 1949, Serial No. 103,210
9 Claims. (Cl. 315—12)

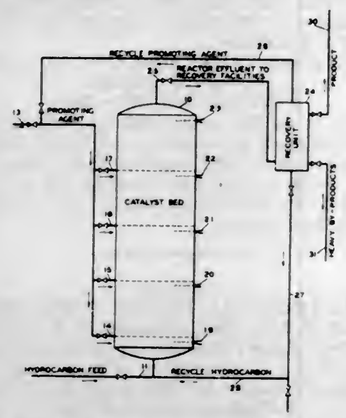


1. Electron discharge apparatus comprising means for projecting an electron beam along a path, a first means adjacent said path for deflecting said beam in one coordinate direction, a second means adjacent said path for deflecting said beam in a second coordinate direction, means for applying signals of varying amplitude to said first deflecting means, a pair of output terminals connected to said second deflecting means, and means for resolving deflection of said beam in response to said signals into a voltage at said terminals proportional to the peak amplitude of said signals, said resolving means comprising a mask extending transversely with respect to said path and having a plurality of spaced portions, in a row, of lengths increasing progressively along said row and extending in said first direction and a feedback coupling between said mask and said second deflecting means, one set of corresponding edges of said spaced portions being parallel.

2,591,843
CATALYTIC ISOMERIZATION OF HYDROCARBONS
John W. Loy, Woods Cross, Utah, assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 20, 1947, Serial No. 780,843
6 Claims. (Cl. 260—683.5)

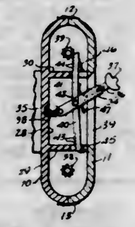
1. In a process for isomerization which comprises passing a mixture of isomerizable hydro-

carbon and promoting agent under isomerization conditions into one end of an isomerization zone containing a porous catalyst bed, comprising a porous catalyst support upon which has been deposited an isomerization catalyst, and in which the catalyst tends to migrate during the isomerization in the direction of flow of said mixture and wherein isomerized product is removed at the other end of said zone, the improvement which comprises introducing the promoting agent at a plurality of points in the direction of flow of reactants through said bed and in varying controlled quantities, determined in respect of the



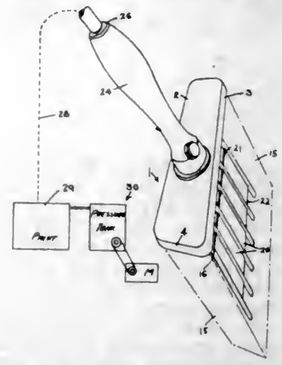
catalyst activity at each of said points, further varying the quantity of promoter introduced at each of said points during the isomerization by reducing, as said catalyst migrates toward said other end of said zone, the quantities of promoting agent being introduced at points near said other end, while increasing the quantities of promoting agent introduced at said one end of said zone, until near the end of the isomerization substantially all of the promoter is introduced into the said one end of said zone, thereby controlling the injection of said promoting agent in a manner such that the rate of conversion throughout the catalyst bed remains substantially the same.

2,591,844
STRIP HOLDER
Peter D. Macripo, Allentown, Pa.
Application February 3, 1950, Serial No. 142,209
3 Claims. (Cl. 40—86)



3. A strip holder comprising an elongated hollow housing, a pair of spools rotatably mounted in said housing one at each end of the latter, a toggle lever pivotally mounted on said housing between said spools and having two ranges of operative movement, means connected to said lever and drivingly engaging one of said spools when said toggle lever is in one range of operative movement and drivingly engaging the other spool when the toggle lever is in its other range of operative movement to rotate said spools in opposite directions in accordance with the two ranges of operative movement of said lever, and spring means disposed between said housing and said toggle lever resiliently maintaining said toggle lever in either of said ranges of operative movement to which said toggle lever is manually moved.

2,591,845
PAINTBRUSH
Osborn P. Magoon, Alameda, Calif.
Application December 13, 1947, Serial No. 791,531
6 Claims. (Cl. 15—128)

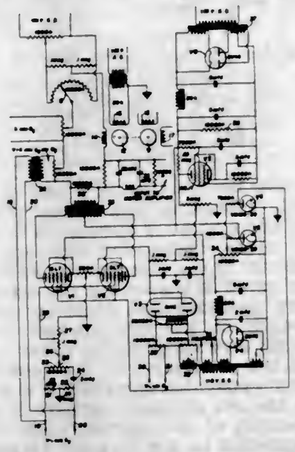


2. In a paint brush having a head, a body of bristles projecting from said head with the base ends of the bristles secured thereto, a paint reservoir carried by said head, a row of spaced flexible tubes extending from said reservoir to points within said body adjacent the tip ends of said bristles for supplying paint from said reservoir to said tip ends, and means spaced from opposite ends of said tubes and within said body and connecting said tubes, said tubes being in a row disposed in a common plane, and said means being a flexible web having its sides parallel with said plane and at least one of the sides of said tubes respectively projecting outwardly of one of the sides of said web.

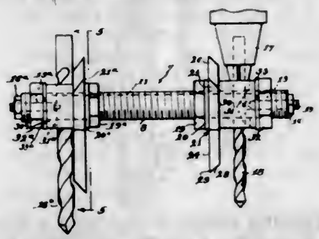
2,591,846
PARALLAX CORRECTOR FOR USE IN GUN CONTROL
Alfred K. Mann, New York, N. Y., Lewis M. Mott-Smith, Houston, Tex., and Lawrence R. Quarles, Charlottesville, Va., assignors to the United States of America as represented by the Secretary of the Navy
Application December 30, 1948, Serial No. 68,226
1 Claim. (Cl. 235—61.5)

Electrical apparatus for correcting parallactic errors in pointing a gun at a target, due to differences of location of a director and the gun controlled thereby, said apparatus being designed to receive an electrical input comprising two electrical signal voltages which are proportional respectively to the sine and the cosine of the angle of elevation of the gun, another signal voltage proportional to the cosine of the angle of train of the gun, and a further signal voltage proportional to the future range of the target, said apparatus including means for combining all these signal voltages electrically to provide the desired correction, said last-named means comprising an electronic mixer which includes two multi-grid thermionic tubes, means for applying said input

voltage, proportional to the sine of the said angle of elevation, to one pair of corresponding grids, means for applying said input voltage proportional to the cosine of the said angle of train of the gun, to another pair of corresponding grids, said mixer providing an output voltage from the anode circuits of said thermionic tubes proportional to the product of its said input voltages, a voltage divider connected to the output of said mixer and across which is applied the voltage proportional to the cosine of the angle of elevation of the gun, whereby a portion of said last-named voltage is added in series with the output voltage of the electronic mixer, a second voltage divider connected to said first-mentioned voltage divider and across which is applied the voltage proportional to the range of the target, said second voltage divider having its output connected in series opposition with respect to the output of said first voltage divider, and means for adjusting said second voltage divider to cause its output voltage to exactly neutralize said two series-connected voltages.

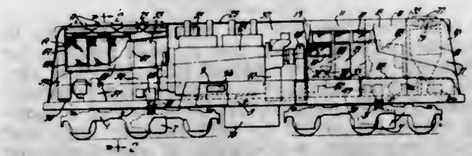


2,591,847
TOOL FOR CUTTING CIRCULAR HOLES
Louis Masini, Highwood, Ill.
Application May 31, 1951, Serial No. 229,048
6 Claims. (Cl. 77—69)



1. A circular hole cutting attachment for drill bits comprising a rod of circular cross section externally threaded from end-to-end thereof having a bore extending diametrically therethrough adjacent one of its ends and a longitudinally extending threaded bore opening outwardly of said end and into said diametrical bore, said diametrical bore being adapted to detachably receive and snugly engage a portion of a drill bit, a retaining screw threadedly engaging said threaded bore and having a restricted inner end adapted to engage in a flute groove of the bit for detachably securing the rod rigidly to the bit, a sleeve slidably mounted on the rod having diametrically aligned longitudinally extending notches opening outwardly of one end of the sleeve adapted to accommodate portions of the drill bit, a pair of nuts threadedly engaging said rod beyond the ends of the sleeve, a washer slidably mounted on the rod between one of the nuts and the adjacent sleeve end, a lock washer mounted on the rod between the opposite end of the sleeve and the other nut, and a cutting unit having an annular hub slidably mounted on the rod between the first mentioned end of the sleeve and the first mentioned washer, said cutting unit having a blade projecting from the hub provided with a cutting portion at its outer end adapted to cooperate with a leading end of the bit for cutting a circular opening and terminating nearer the axis of the rod than the leading bit end.

2,591,848
POWER GENERATING LOCOMOTIVE
Herbert George McClean, La Grange, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 3, 1947, Serial No. 745,814
4 Claims. (Cl. 105—35)

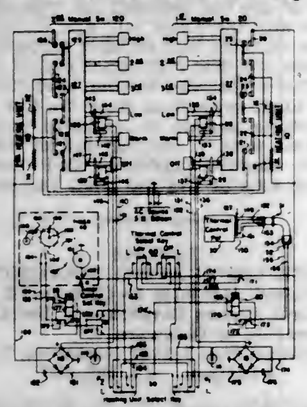


1. A locomotive comprising multi-axle traction trucks, electric traction motors for driving the axles and a cab supported on said trucks, said cab having partitions forming an elevated intermediate control compartment, a power compartment at one end, and an air conditioning compartment at the opposite end and a stressed longitudinally extending hollow cab member having openings for establishing communication between said end compartments, said air conditioning compartment having an overhead air inlet opening in the roof, and including a filter and power operated fan means communicating with the air inlet openings for supplying filtered air to said hollow cab member and said power compartment, said power compartment including an internal combustion engine and an electric traction generator driven thereby, said engine receiving filtered air from said power compartment, and power operated ventilating means in said compartments communicating with said power compartment and with said hollow body member for furnishing filtered cooling air to said traction generator and motors.

2,591,849
HEATING CIRCUIT CONTROL FOR ELECTRIC APPLIANCES
Walter R. McDowell, Western Springs, Ill., assignor to Hotpoint Inc., a corporation of New York
Application December 31, 1949, Serial No. 136,365
16 Claims. (Cl. 219—20)

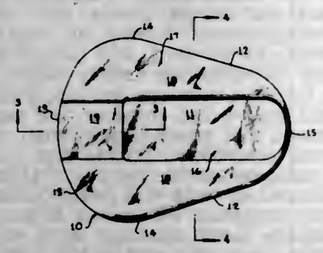
2. In a cooking appliance including a heating unit adapted to support a cooking vessel, a source of current supply, and a unitary manually operable control switch selectively operative from an off position into respective high and low positions to complete respective high and low electrical heating connections between said heating

unit and said source so as to effect heating of said heating unit at corresponding high and low heating rates; the combination comprising a first electro-responsive motor operative to operate said switch into its low position, a first operating circuit for said first motor, a second electro-responsive motor operative to operate said switch into its off position, a second operating circuit for said second motor, means for selecting either one



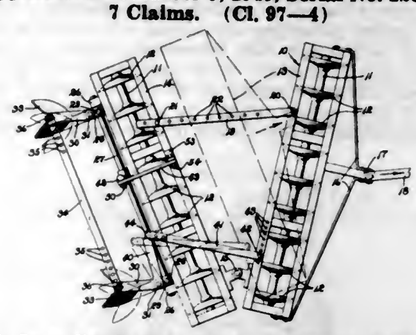
of said operating circuits, means responsive to operation of said switch into its high position for preparing the selected one of said operating circuits, a device operated in response to a predetermined cooking temperature of a wall of a cooking vessel supported by said heating unit, and means responsive to operation of said device for completing the selected and prepared one of said operating circuits.

2,591,850
BEDPAN
Amelia E. M. Mitchell, Ponchatoula, La.
Application June 23, 1950, Serial No. 169,905
1 Claim. (Cl. 4—112)



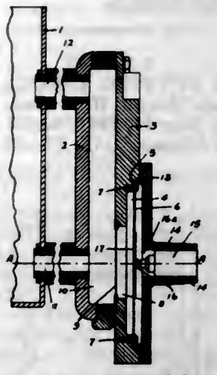
In a bedpan having a longitudinally elongated flat bottom and a peripheral wall thereon including straight side walls converging toward one end of the bedpan, and transversely curved wide and narrow end walls joining the opposite ends of the side walls, a top wall on the upper edges of said side and end walls, said top wall comprising longitudinally elongated side sections laterally spaced from each other throughout their length forming a relatively narrow longitudinally elongated opening therebetween, said opening extending longitudinally from the narrow end wall toward the wider end wall, said top wall including another section positioned between said side sections and said wider end wall at one end of said opening, the upper surfaces of said side sections being transversely and convexly curved throughout their length and the upper surface of said other section being flat and plane throughout its length and width.

2,591,851
AGRICULTURAL IMPLEMENT
Alford J. Milla, Fresno, Calif.
Application November 9, 1949, Serial No. 126,286
7 Claims. (Cl. 97—4)



1. In a disc harrow having a pair of elongated horizontally extending disc frames pivotally interconnected for relative angularity in a common horizontal plane, means for adjusting the relative angularity of the disc frames, and means for imparting earth transversing movement to the disc harrow in a direction generally transversely of the length of the disc frames, one of the frames being forwardly of the other on forward motion of the disc harrow; the combination of a furrowing apparatus comprising a plurality of furrowing shovels pivotally supported on vertical axes rearwardly of the rearward disc frame, and means connected to the forward frame and the shovels for positioning the shovels simultaneously in parallelism with each other and with the direction of movement of the disc harrow.

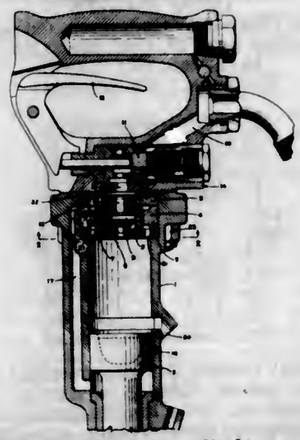
2,591,852
AUTOMATIC CONTROL FOR ELECTRIC HEATERS AND OTHER PURPOSES
William Murray, Leamington Spa, England
Application April 29, 1949, Serial No. 90,376
In Great Britain May 3, 1948
2 Claims. (Cl. 219—38)



1. A washing means comprising a water heating unit including a casing providing a chamber with at least one opening, an electromagnetic relay and at least one electric heater, a control member including a sensitive switch for operating said relay and comprising a plunger, a flexible metallic diaphragm, said plunger being adapted to be actuated by the movement of the said diaphragm, said diaphragm having a free portion responsive to the hydrostatic pressure of liquid admitted through said opening on the side opposite said plunger, said free portion consisting of a central zone and a peripheral zone, said peripheral zone being of a thickness less than fifteen

mils, said plunger opposing a resistance to displacement by the diaphragm tending to cause its maximum displacement to occur around a zone between the centre and periphery of such free portion, and means defining and stiffening said central zone over an area not less than one-eighth and not more than one-half of the area of said peripheral zone so as to ensure that the maximum displacement of the diaphragm is at the said central zone and to lower the hydrostatic pressure necessary to operate the diaphragm.

2,591,853
VALVE FOR PERCUSSIVE TOOLS
Paul H. Nast, West Springfield, Mass., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application August 21, 1947, Serial No. 769,779
4 Claims. (Cl. 121—28)



1. In a percussive tool, a cylinder provided with a pressure air passage leading into its forward end, a piston movable in said cylinder, and a valve structure in the axial line of said cylinder for controlling movement of said piston, said valve structure comprising an annular valve box, a forward cover plate and a rear cover plate, said cover plates spaced to form a pressure air chamber, said rearward cover plate provided with a passage to permit air to enter said chamber and with a valve control passage for permitting pressure air to flow into the forward end of the cylinder, said forward cover plate provided with valve controlled ports opening into the pressure air chamber and into the rear end of said cylinder for delivery of pressure air into the rear end of the cylinder, and a ring valve of uniform diameter and uniform thickness throughout its length in said annular box for reciprocatory movement therein, said ring valve disposed coaxially with said passage for pressure air in the rear cover plate to seat itself endwise against the inner surfaces of said forward and rearward cover plates, respectively, to control the flow of pressure air through said valve controlled ports.

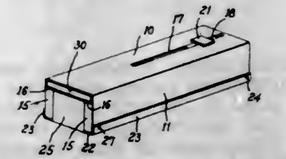
2,591,854
KNOT
Adin Allen Nellis, Jr., Norwood, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 8, 1947, Serial No. 746,682
14 Claims. (Cl. 28—73)

1. A knot assembly for connecting together two strand sections, each having at least one end-portion and at least one standing portion, said knot assembly comprising two series-tied overhead knots, a loop in one of the sections adjacent its end-portion and extending from the last-named overhand knot around the standing



portion of said section and between the overhand knots, and a loop in the other section adjacent its end-portion and extending around the standing portion of the last-named section and between the overhand knots.

2,591,855
CHEWING GUM DISPENSER
Jerry E. Nicholson, Canton, Ohio
Application April 12, 1950, Serial No. 155,500
1 Claim. (Cl. 206—40)

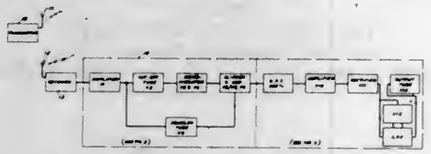


A chewing gum holder and dispenser comprising a container having a top wall, depending side walls and rear end wall, opposed vertical flanges at the forward ends of the side walls, said flanges terminating at a point spaced below the top wall, a false wall integrally connected at its lower end to the lower end of the rear end wall, said false wall being spaced inwardly from and parallel with the rear end wall and terminating at its upper end at a point spaced below the top wall, a bottom cover for the container, means hinging the rear end of the cover to the rear lower corner of the container between the rear end wall and the false wall, a front end wall fixed upon the forward end of the cover and received between said vertical flanges, said front end wall terminating in the same horizontal plane as said vertical flanges so as with said flanges to define a slot between the upper ends of the front wall and flanges and the top wall, through which slot a stick of gum may be projected, spring means connected to the top of the cover for pressing a plurality of sticks of gum upward in the container against the top wall, between said false wall and said front end wall, and a manually operated slide mounted for longitudinal reciprocation upon the top wall and having a depending projection for passing rearwardly over the top of the false wall and engaging the rear end of the uppermost stick of gum and projecting it through said slot.

2,591,856
PULSE ECHO DISTANCE INDICATOR
Bernard M. Oliver, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1944, Serial No. 567,407
3 Claims. (Cl. 343—13)

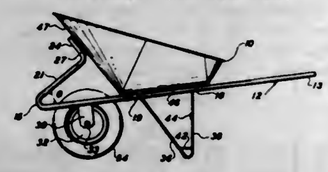
2. In combination, two electron discharge devices each comprising an anode, a cathode and a first and a second grid, means for connecting the first grid of each of said tubes to the anode of the other of said tubes, means for connecting a biasing potential between the first grid of the first one only of said tubes and the cathode there-

of sufficient to cause said tube to be normally cut off in the absence of pulses applied to the second grid, the second of said tubes being normally conducting, said means for coupling said first grid and said anode comprising time constant circuits, means for applying a series of negative pulses to the second grid of each of said tubes, whereby the one of said tubes which is not cut off becomes non-conducting on the application of the first pulse in the series to the second grid thereof thereby applying a positive pulse to the first grid of the other tube which continues to be cut off because of the negative pulse applied to the second grid thereof until the termination of the first pulse in the series whereupon it becomes conducting until the start of the next pulse.



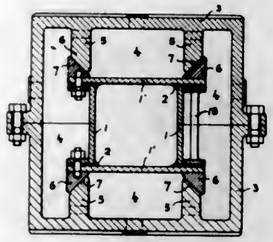
3. In combination, means for producing a series of transmitted pulses, means for producing from each pulse in the first series a reflection or echo pulse but which reflections or echo pulses may fade from time to time, means for producing from the echo pulses and the transmitted pulses a series of square-topped pulses each having a duration corresponding to the time interval between a transmitted pulse and its corresponding echo pulse and having a constant amplitude, said last-mentioned means being characterized in that when one of said echo pulses fades the square-topped pulse produced thereby is of much longer duration than the time interval between the transmitted pulse and its corresponding echo pulse, means including a rectifier and a filter circuit for producing a direct current intended to be representative of the duration of said square-topped pulses, but which produces a current of increased amplitude when there is an increase in the duration of said square-topped pulse, and means for shorting portions of said filter during fades to reduce the current output of said filter.

2,591,857
WHEELBARROW
John E. O'Shea, Long Beach, Calif., assignor to Arlington Sheet Metal Corporation, Los Angeles, Calif., a corporation of California
Application January 16, 1948, Serial No. 2,740
3 Claims. (Cl. 280—52)



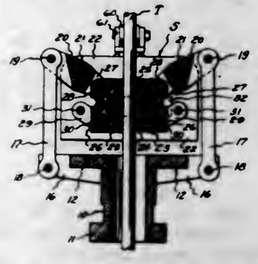
1. In a wheelbarrow, a chassis including a pair of elongated side members each having a curved nose portion at the front thereof, an intermediate cross member and a rear cross member joining the side members in spaced relationship so that the longitudinal axes thereof converge toward the nose portions, a forward cross member joining said nose portions, a tray having a planar bottom engaging said intermediate and rearward cross members and a planar inclined front portion, said side members having arms extending rearwardly and upwardly from said nose portion toward the approximate midpoint of said planar front portion, said arms curving additionally upwardly and forwardly adjacent the planar front portion of the tray and extending parallel thereto to form underlying braces upon which the wheelbarrow may be supported on the edge of a pouring form, an upper cross member affixed to the braces adjacent the planar front portion of the tray, means affixing said last named portion of the tray to the upper cross member, a ground wheel rotatably mounted between the side members so that the center of rotation thereof is rearward of the nose portion and below the upwardly curving portion of said arms, and a pair of legs each supported from the intermediate and rear cross members.

2,591,858
DOUBLE WALLED MOLD FOR CASTING LONG INGOTS
Peter Ostendorf, Godesberg, Germany
Application April 19, 1949, Serial No. 88,356
In Austria May 3, 1948
9 Claims. (Cl. 22—144)



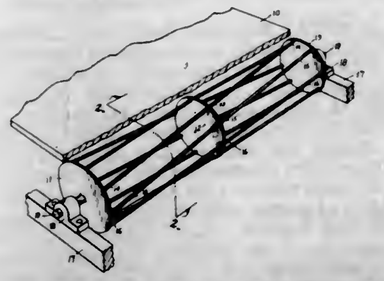
1. In ingot casting the improvement in molds comprising means defining a number of mold walls defining an inner longitudinally extending mold of polygonal cross section, a cooling jacket around said mold in spaced relation thereto, first positioned means carried by said mold for positioning the same within said cooling jacket and defining a first surface inclined in a direction toward the center of the mold and substantially parallel to the resultant of the lateral heat expansion of the nearest adjacent walls of the mold, second positioning means carried by said jacket and defining a second surface in substantially slidable mating contact with said first surface.

2,591,859
GRIPPING DEVICE
Herbert C. Otis, Dallas, Tex.
Application January 16, 1948, Serial No. 2,582
7 Claims. (Cl. 24—249)



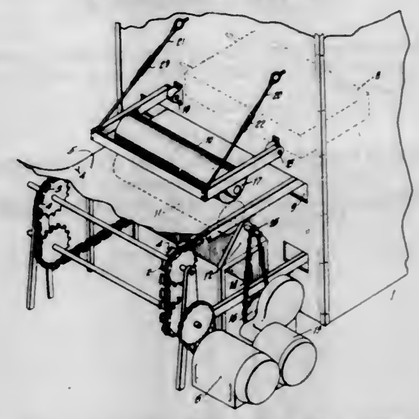
1. A gripping device adapted for use in inserting pipe into wells against pressures therein and including, a base member adapted to be connected to a well casing and having an opening therethrough for the passage of pipe, a snubber frame movable with respect to the base member and also having an opening permitting the passage of pipe therethrough, a pair of spaced opposed lever arms each pivoted intermediate its ends to said frame and swingable on said pivots, the inner ends of the lever arms extending inwardly and downwardly of the frame to a level below the central pivot point on which the arms are pivoted to the frame and the outer ends of said lever arms extending upwardly and projecting outwardly from the frame above said central pivot point, a pair of opposed gripping members each pivotally mounted on the inner end of one of said lever arms below the pivotal connection of the lever arms with the frame and having an arcuate gripping surface adapted to grip pipe extending through the frame when the outer ends of the lever arms are swung to move the gripping members toward each other, leveling links spaced from the lever arms and pivotally connected to the gripping members and the frame for positively maintaining the arcuate gripping faces of the members in parallel alignment with each other, a pair of pull links each hingedly connected at its upper end with the outer end of one of the lever arms above the pivotal connection of the lever arms with the frame and at its other end with the base member, whereby upward movement of the snubber frame with respect to the base member causes the lever arms to be swung downwardly at their outer ends and upwardly and inwardly toward each other at their inner ends to move the gripping members inwardly and into gripping engagement with the pipe extending through the frame, means for moving the snubber frame upwardly with respect to the base member to cause actuation of the gripping members into gripping position, and adjustable locking means normally inactive and constructed and arranged to be adjusted to maintain the snubber frame in an elevated position positively maintaining the gripping members in gripping engagement with the pipe, said locking means permitting movement of the frame to increase the gripping engagement of the gripping members with the pipe but preventing movement reducing such gripping engagement.

2,591,860
CONVEYER BELT SUPPORTING MEANS
David C. Owens, Alden, Iowa
Application July 9, 1949, Serial No. 103,771
4 Claims. (Cl. 198—230)



2. In combination, a belt, and a belt supporting means, said belt supporting means comprising, two spaced apart rod supporting members, a means for rotatably supporting said two rod supporting members, a third rod supporting member spaced apart from and positioned between first two mentioned rod supporting members, a plurality of rod members extending from said third rod supporting member to one of said first rod supporting members and extending on a diagonal to the longitudinal axis of the belt engaging means, and a plurality of rod members extending from the third rod supporting member to the other first mentioned rod supporting members extending on a diagonal to the longitudinal axis of the belt supporting means; said rods forming a cage rotatably engaging said belt.

2,591,861
METHOD AND APPARATUS FOR THE CONTINUOUS SETTING OF KNITTED FABRICS FORMED OF THERMOPLASTIC MATERIAL
Karl E. Pannaci, Gloversville, N. Y., assignor to Lee Dyeing Co., of Johnstown, Inc., Johnstown, N. Y., a corporation of New York
Application January 19, 1951, Serial No. 206,784
9 Claims. (Cl. 26—52)

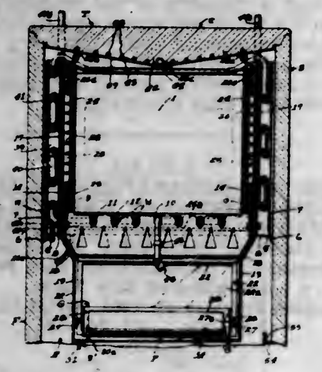


1. The method of continuously setting an elongated, knitted fabric formed of a thermoplastic material, such as nylon, and having transversely-extending courses therein, which comprises securing the longitudinally-extending, marginal edges of said fabric in relatively fixed, parallel-disposed relation at closely spaced points thereof with the ends of each course substantially directly opposite each other; continuously moving said fabric in a longitudinal direction; heating said moving fabric to a temperature at least equal to its stabilizing point as it passes through a zone of limited extent longitudinally of said fabric; and maintaining said transversely-extending courses, while moving through the zone of heating, in approximately the same relative position as before entering said zone, by applying tension in the direction of movement of said fabric in zones thereof intermediate said marginal edges.

2,591,862
REFRIGERATOR
Arthur J. Pedigo, Richmond, Va.
Application December 5, 1947, Serial No. 789,907
12 Claims. (Cl. 62—89)

1. A refrigerating apparatus comprising, in combination, a case having a top wall, a horizontally disposed grid supported within the upper portion of the case, said grid constituting a bottom for an ice chamber and said wall forming the top of the ice chamber, side walls for the ice chamber spaced from the adjacent walls of the case to provide flues, said side walls terminating below the top wall of the case to provide an ice chamber with an open top, the under face

of the top wall of the case having two downwardly inclined portions extending from opposite sides toward and joining at the center of



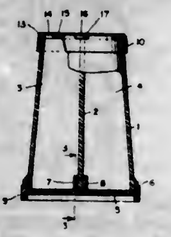
said chamber, the joining line of said portions being below the top edges of the side walls of the ice chamber.

2,591,863

COMBINATION SHAKER FOR CONDIMENTS

Sylvester J. Perry, Cleveland, Ohio

Application March 24, 1948, Serial No. 16,807
2 Claims. (Cl. 222—142.8)



1. A condiment shaker, comprising a tubular body formed with a longitudinally extending partition dividing said body into two chambers for condiments, means providing two transverse end walls respectively closing one end of said body to seal such chambers from one another at such one end and providing two sets of perforations at the other end of said body leading directly to the respective chambers and through which condiments in the respective chambers are adapted to be dispensed, such partition terminating short of the transverse end wall at such other end of said body whereby to define an unobstructed recess bounded by the peripheral side wall of said body, said body being formed with lateral openings through the side wall thereof in alignment with such partition and leading into such recess, a valve element in such recess frictionally engaged between such partition and adjacent transverse end wall and formed with oppositely extending actuator lugs projecting through such lateral openings in said body and with a laterally enlarged imperforate disk disposed to be selectively positioned to cover one set of perforations and to uncover the other set upon shifting of said valve element by said lugs in opposite directions in such recess along a path parallel to such partition, said disk and lugs being of substantially the same thickness as such recess between such partition and adjacent transverse end wall whereby said disk and lugs continuously seal against such partition and adjacent transverse end wall to preclude communication between such chambers at such other end of said body.

2,591,864

LINE DIAGRAM PANEL

Leslie Hurst Peter and Edward Alfred Sheppard, King's Cross, London, England, assignors to Westinghouse Brake and Signal Company Limited, London, England

Application April 16, 1949, Serial No. 88,008
In Great Britain May 13, 1948
4 Claims. (Cl. 177—311)



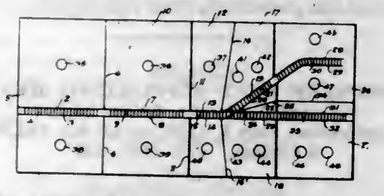
1. A mimic diagram panel for a track or conductor layout, comprising in combination, a sheet of transparent material having a part bearing a main representation of the layout; means for illuminating said part bearing the main representation by internal reflection of light within said material; at least one body of transparent material bearing a supplementary representation and located closely adjacent to a surface of said sheet; and means for independently illuminating said body bearing the supplementary representation by internal reflection of light within said body.

2,591,865

MIMIC DIAGRAM PANEL FOR RAILWAY AND OTHER INDICATION SYSTEMS

Leslie Hurst Peter and Edward Alfred Sheppard, King's Cross, London, England, assignors to Westinghouse Brake and Signal Company, Limited, London, England

Application August 5, 1949, Serial No. 108,694
In Great Britain August 13, 1948
6 Claims. (Cl. 177—311)



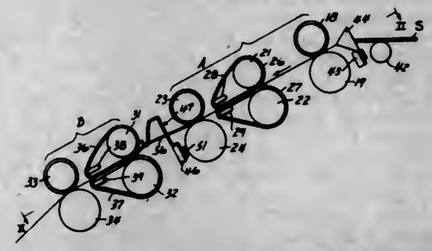
1. A mimic diagram panel for displaying a layout consisting of an invariable representation and a variable representation consisting of sections, comprising in combination, a sheet consisting of transparent material having a part bearing the invariable representation of the layout; means for illuminating said part bearing the invariable representation by internal reflection of light within said transparent material; a plurality of plates, consisting of transparent material, and having parts, respectively, bearing the sections of the variable representation, said plates being mounted close behind said sheet and fitted together so that the sections are combined to the variable representation; and means for internally illuminating each of said plates independently, whereby the sections of the variable representation are illuminated by internal reflection within said plates, respectively, and thus are rendered readily visible through said sheet.

2,591,866

CONDENSER FOR LONG DRAFT SPINNING

Richard B. Pope, Sylacauga, Ala., assignor to Avondale Mills, a corporation of Alabama

Application December 22, 1947, Serial No. 793,073
9 Claims. (Cl. 19—130)



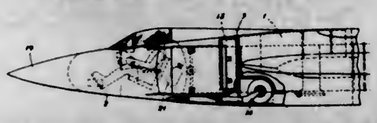
1. The combination with long draft fiber attenuating apparatus embodying a plurality of pairs of drawing rolls, of a condenser interposed between two successive pairs of rolls comprising a member having a V-shaped notch therein with one side of the V lying in a plane which is substantially normal to the axes of the rolls and the other side of the V inclined to said plane a portion of the side of the V which is substantially normal to the axes of the rolls being disposed rearwardly of the inclined side with respect to the direction of approach of the sliver and in position for the sliver to engage the inclined side and said portion of the side which is substantially normal to the axes of the rolls.

2,591,867

DETACHABLE PILOT'S COCKPIT FOR AIRCRAFT

Charles Willis Prower, East Molesey, and Thomas George Guppy, Hanwell, London, England, assignors to Blackburn and General Aircraft Limited, Brough, England, a British company

Application June 13, 1950, Serial No. 167,732
In Great Britain April 29, 1949
3 Claims. (Cl. 244—140)



1. In an aircraft, a cockpit capable of being detached from the fuselage in an emergency, and of travelling horizontally for a space, means tending to make said cockpit nose heavy when separated from said fuselage, and elongated passages formed along the longitudinal portions of said cockpit at the rear thereof through which air may flow on said cockpit being detached from said fuselage to give a degree of stability in pitch and yaw.

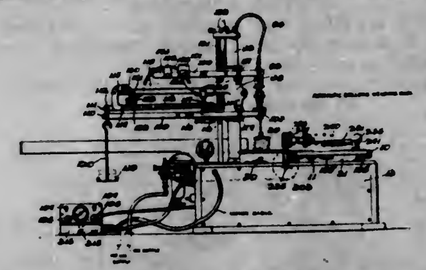
2,591,868

MACHINE FOR SORTING COMPRESSIBLE ELEMENTS

Louis M. Puster and John A. Kaserman, Knoxville, Tenn., assignors to Robertshaw-Fulton Controls Company, a corporation of Delaware

Application January 27, 1947, Serial No. 724,530
32 Claims. (Cl. 209—79)

32. In a machine for sorting elements according to different resistances to compression, in combination with a plurality of conveyors for feeding sorted elements out of the machine, indexing means for intermittently advancing elements to be sorted to a weighing station and thereafter to a sorting station, a single transporting arm mounted for oscillation between the sorting station and the conveyors, means for operating said arm for picking up elements sequentially from said indexing means and



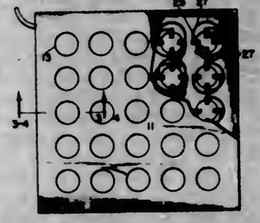
swinging said elements over said conveyors, stop mechanism associated with said last named means and operable for aligning said transporting arm with a selected one of said conveyors, and means for varying the setting of said stop mechanism in response to different compression resistivity in said elements.

2,591,869

ELECTRICAL BINGO GAME BOARD

Buxx C. Quimby, Portland, Oreg.

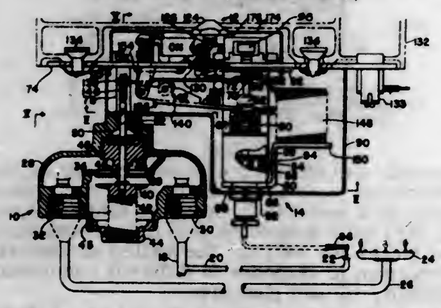
Application April 17, 1950, Serial No. 156,318
3 Claims. (Cl. 273—135)



1. An electric game apparatus assembly including a game board, a plurality of downwardly-extending cylindrical channels in said game board arranged in special row formations suitable for the playing of a game of the "Bingo" type, a plurality of pairs of spring contact members extending downwardly into each channel, the members of each pair being arranged diametrically opposite each other in the channel, the upper ends of said members secured in place at the upper ends of said channels, the members of each pair electrically connected together at their secured upper ends, the lower ends of said members normally spaced inwardly a slight distance from and out of contact with the channel walls near the bottoms of said channels, terminals mounted in said channel walls near the bottoms of said channels in alignment with the upper ends of said spring members respectively, electric conductor elements extending between said channels at their bottom ends in accordance with said row formations and joined to said terminals, a pair of main conductors extending around said game board, branches from said main conductors extending to a terminal in the end channels of each row formation respectively, plunger plugs placable in said channels for thrusting the bottom ends of said spring members into contact with the respective terminals, whereby to close the circuit between said main conductors through a row formation, means for connecting said main conductors to a source of

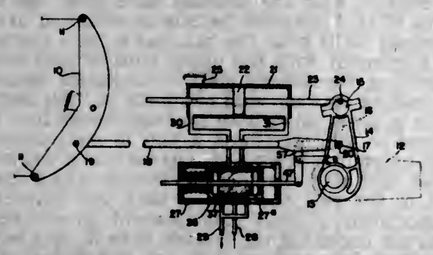
electric current, and an electric indicator in the circuit of said main conductors actuated by the closing of said main conductor circuit.

2,591,870
CONTROL DEVICE FOR GASEOUS FUEL BURNERS
Harold W. Rice, Los Angeles, Calif., assignor to Robertshaw-Fulton Controls Company, a corporation of Delaware
Application May 18, 1946, Serial No. 670,756
10 Claims. (Cl. 137—139)



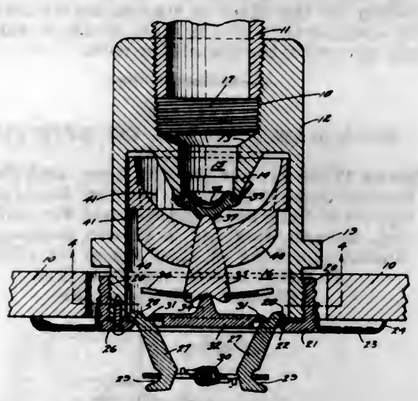
1. In a control device, control means movable between open and closed positions and biased to said closed position, a first pivotally mounted lever, a second lever pivotally mounted on said first lever and being engageable with said control means, actuating means cooperable with said second lever for moving said second lever into operative relation with said control means and overcoming the bias of said control means and causing movement of said control means to open position, positioning means operatively engageable with said first lever for positioning said second lever to render said actuating means effective or ineffective to overcome said bias according to the presence or absence respectively of a controlling condition, and means for rotating said second lever on said first lever to move said second lever out of operative relation with said control means to thereby render said actuating means ineffective to overcome said bias during the presence of said condition.

2,591,871
POWER BOOSTER LINKAGE PROVIDING PILOT'S FEEL
Robert R. Richolt, Tujunga, Calif., assignor to Lockheed Aircraft Corperation, Burbank, Calif.
Original application August 9, 1943, Serial No. 498,021, now Patent No. 2,424,901, dated July 29, 1947. Divided and this application April 1, 1946, Serial No. 658,625.
4 Claims. (Cl. 121—41)



1. An aircraft control system including a movable control surface, a power booster comprising a hydraulic motor operatively connected to said control surface to supply a proportion of the force required to move the same, a piston valve hydraulically interconnected with said motor and adapted to control the operation thereof, a pilot operated primary control for the operation of said piston valve, in combination with means interconnecting the primary control with the piston valve and with the control surface to simultaneously operate said valve and to apply the pilot's portion of the force required to move the control surface, said means including a lever arm carried by said control surface, and a feel lever pivoted at one end in said lever arm and mechanically linked at its free end to both the valve and the pilot's control, the pivoted end of said feel lever having a connection to said motor eccentric to the pivotal connection of the feel lever and lever arm in opposing relationship to the valve and pilot's control linked thereto, and forming the operative connection between the motor and the control surface, whereby the feel lever is pivotally balanced in the lever arm between the pilot's control and said operative connection.

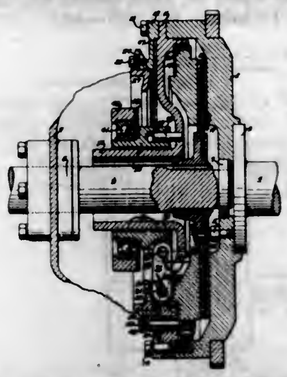
2,591,872
AUTOMATIC SPRINKLER
Harry N. Rider, Youngstown, Ohio, assignor to "Automatic" Sprinkler Corporation of America, Youngstown, Ohio, a corporation of Delaware
Application February 10, 1951, Serial No. 210,327
7 Claims. (Cl. 169—40)



1. In an automatic sprinkler, the combination of a cylindrical casing open at its lower end and having a partition inwardly of its ends formed with a discharge opening, means at the upper end of said cylindrical casing for attaching the same in depending position in a sprinkler system; a yoke normally in a retracted position within the casing and having a ring reciprocally positioned in said cylindrical casing beneath said partition and normally in a raised position remote from the normally open lower end of the cylindrical casing and a pair of arms formed on and extending downwardly from said ring and at their lowermost ends joined to side portions of a vertically disposed body member, a deflector secured to said body member beneath said arms and disposed within the casing when the ring is in its raised position and assuming a position below the casing when the yoke is in an extended position, a valve member resting upon the upper end of said body member and normally held thereby in closing relation to the discharge opening, a disc loosely positioned in the open lower end of the cylindrical casing and engaging the lower end of said body member for supporting

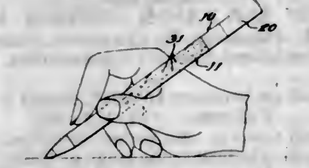
the yoke, a vertically adjustable support carried by the lower end of said cylindrical casing and having a portion disposed in position for engaging and limiting downward movement of said ring and thereby supporting the yoke in the extended position, a pair of oppositely disposed levers releasably suspended from said support and having portions normally fitting under said disc in supporting engagement therewith, and a fusible element inter-connecting lower portions of said levers and holding the same in engagement with the support, said disc being normally urged upwardly by said levers and thereby pressing the valve member upwardly to its closed position.

2,591,873
OVER CENTER CAM ENGAGED CLUTCH
Norman E. Risk, Charles A. Ramsel, and Russell C. Williams, Peoria, Ill., assignors to Caterpillar Tractor Co., Peoria, Ill., a corporation of California
Application January 23, 1948, Serial No. 3,866
2 Claims. (Cl. 192—93)



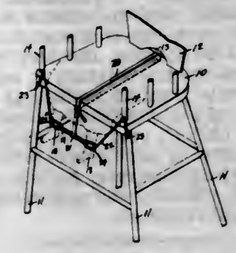
1. In a friction disc type clutch, a pressure plate movable to engage the clutch, a surface inclined relative to the pressure plate, rollers disposed between said surface and the pressure plate, pivoted links supporting said rollers, and means to swing said links in a direction to move the rollers into a wedging position for advancing the pressure plate to a clutch engaging position, said links being arranged to assume an over-center position relative to their pivotal support when the clutch is engaged and weights on said links tending to swing them under centrifugal action away from their clutch engaging position.

2,591,874
BUBBLE-FORMING WRITING INSTRUMENT
Clayton F. Ritchie, Chicago, Ill.
Application April 6, 1950, Serial No. 154,389
2 Claims. (Cl. 41—10)



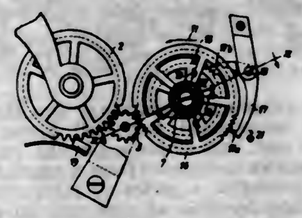
1. A device of the character descrioed comprising an elongated rounded plastic barrel having an elongated and open-ended internal chamber filled with a liquid of a boiling point substantially below normal human body temperature, removable closure cap means secured to the upper end of the barrel and including a vent opening and a refill inlet both communicable with the internal chamber in the barrel, a metallic sleeve secured to the lower end of the barrel and being of substantially greater heat conductance than the barrel, an element within the sleeve having successive sections of decreasing diameter tapering upwardly toward and being in alignment with the lower end of the said internal chamber, the sleeve encircling the said sections of the said element whereby facing portions of the sleeve and element together define an annular chamber constituting a lower extension of the said elongated chamber, the exterior portions of the barrel, sleeve, and closure cap means being of a size and configuration corresponding to that of a writing implement, and the thickness of the walls of the metallic sleeve at the said annular passage being such that the liquid in the transparent barrel is heated to boiling when grasped between the fingers.

2,591,875
RETAINER FOR CHILDREN
Bertha Robbins and David Robbins, Portland, Oreg.; said Bertha Robbins, executrix of said David Robbins, deceased, assignor to William A. Kelley, Portland, Oreg.
Application July 5, 1946, Serial No. 681,476
1 Claim. (Cl. 155—189)



A device of the class described, consisting of a hobble strap having ankle receiving loops at opposite ends thereof and having a strap attached to the middle of said hobble strap adapted to encircle a chair seat for limiting the distance the middle portion of said hobble strap can be moved away from the chair seat, and means for limiting the lateral movement of the ankle receiving portions of said hobble strap.

2,591,876
DEAD-SECOND WATCH MECHANISM
Fritz-André Robert-Charrue, Le Locle, Switzerland, assignor to Ebauches S. A., Neuchatel, Switzerland, a Swiss firm
Application October 31, 1949, Serial No. 124,570
In Switzerland July 1, 1949
1 Claim. (Cl. 58—59)



In a dead-second watch movement including a drive train for the seconds hand, said train including: a toothed driving wheel; a toothed driven

wheel coaxial with, and having a greater diameter than, said driving wheel; said wheels having the same number of teeth and forming part of said drive train; a spring connecting said driving and driven wheels; and a double-armed pawl, the first arm of which engages intermittently the teeth of said driven wheel, thereby preventing its continuous rotation, and the second arm of which has an end coinciding with the path of the teeth of said driving wheel, said end being adapted to engage and to be displaced by the teeth of said driving wheel; whereby, after the passage of each tooth of said driving wheel over said end, said second arm falls in the space between said last named tooth and the next following tooth, simultaneously disengaging said first arm from the teeth of the driven wheel and allowing entrainment of the latter by said spring.

2,591,877

PURIFICATION OF ALCOHOLS BY AZEOTROPIC DISTILLATION

Nat C. Robertson and Robert H. Buchanan, Corpus Christi, Tex., assignors to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application September 21, 1948, Serial No. 50,446
3 Claims. (Cl. 202—42)

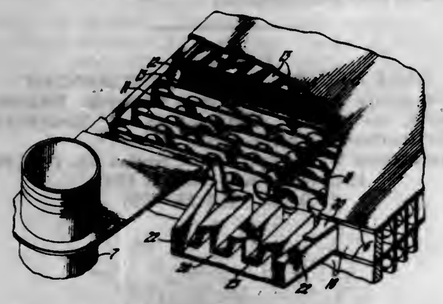
1. In a process for the removal of acetals, carbonyl compounds and oxides from a mixture comprising essentially n-propanol, isobutanol, secondary butanol and n-butanol wherein said esters, acetals, carbonyl compounds, and oxides are present as impurities, the step which comprises fractionating the mixture to separate from the same a crude fraction boiling at from about 96 to 103° C. and a crude fraction boiling at from about 103 to 120° C. and then subjecting each of said fractions to azeotropic distillation employing methyl-cyclohexane as the alcohol entraining agent, whereby the said alcohols are removed from said fractions.

2,591,878

OXYGEN REGENERATOR

Philip S. Rogers, Willard O. Emmons, John W. Godfrey and James Milton Kelso, Lockport, N. Y., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application September 22, 1948, Serial No. 50,496
6 Claims. (Cl. 257—245)



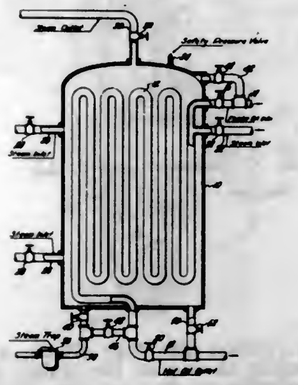
1. In an oxygen regenerator or the like, a succession of superposed flat wall plates spaced apart, side and end closures for the spaces between the plates to thereby form a stack of sealed fluid flow passages, a series of inlet connectors arranged side by side at one end in selective communication with the fluid flow passages for delivery of several different fluids in staggered relation to successive fluid flow passages, a series of outlet connectors similarly arranged at the opposite end and each connector communicating with its fluid flow passage through an end closure for a distance constituting a small fraction of the passage width, apertured serpentine distributors located in the opposite ends of the passages and set on edge with opposite edges joined to the adjacent faces of said plates and thereby stiffening the plate assembly, a series of flattened coils of helically wound wire extending longitudinally of each passage in transversely spaced side by side relation and with spacers between adjoining side lengths of the adjoining flattened coils, said spacers comprising longitudinally extending channels fitted in nested relation to the coil end loops, one for each coil and arranged alternately on opposite end loops and secured by brazing or the like to both the wire coils and the plate surfaces.

2,591,879

FLUID HEATER FOR OIL WELL TREATING APPARATUS

Andrew Craig Russell, Shawnee, Okla.

Application April 24, 1950, Serial No. 157,649
1 Claim. (Cl. 257—64)



A treater comprising a hollow tank having a valved oil inlet pipe, a number of valved steam inlet pipes, a valved steam outlet pipe and valved outlet means communicating with said tank; a continuous, tubular coil in the tank and having a valved inlet end extending through the tank adjacent the top thereof and a valved outlet end extending through the bottom of said tank; means for directing oil to be treated to said oil inlet pipe and to said inlet end of the coil; a valved steam inlet tube connected with said coil adjacent its inlet end; a steam trap; a valved conduit joining the tank at said bottom thereof with said steam trap; and a valved tubular member joining the coil adjacent its outlet end with said conduit.

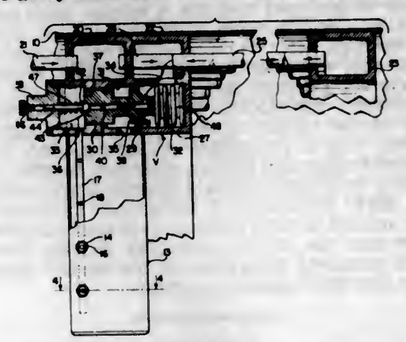
2,591,880

LIQUID AND VAPOR CONTROL VALVE

Herbert F. Sammons, La Crescenta, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.

Application January 10, 1948, Serial No. 1,606
6 Claims. (Cl. 236—92)

1. A valve of the character described comprising a body structure having a fluid receiving chamber, a liquid outlet, and a vapor outlet, a valve element movable to control the vapor outlet and having a liquid passage leading from said chamber to the liquid outlet, a valve closure for cooperating with said element to control said passage and movable away from said element under liquid pressure to open said passage, spring means for holding the closure in cooperation with said element and yieldable to allow the closure to move away from said element, and means in said



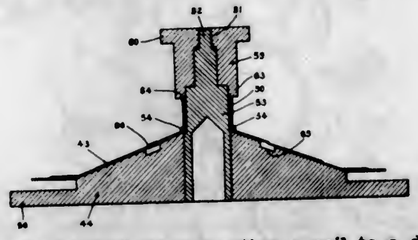
chamber responsive to the temperature and pressure of the fluid therein to move said element and thereby selectively control the discharge of liquid and vapor through said liquid and vapor outlets.

2,591,881

METHOD OF MAKING RADIO SPEAKERS

Barton T. Setchell, St. Paul, Minn.

Application February 28, 1947, Serial No. 731,579
2 Claims. (Cl. 29—155.57)



1. The method of connecting a coil to a diaphragm through the use of a rotatable mandrel, the method comprising the steps of wrapping a sleeve of relatively thin, flexible material about the rotatable member, forming a shoulder circumjacent one end of the sleeve, inserting the diaphragm over the shoulder, attaching the diaphragm to the shoulder, applying adhesive to a wire, and wrapping said wire about the sleeve without removing said sleeve from the mandrel to form a coil on said sleeve.

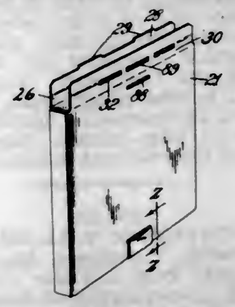
2,591,882

WRAPPER OR CONTAINER OF CARDBOARD OR LIKE MATERIAL

Frederick John Shirley, London, England

Application October 28, 1949, Serial No. 124,203
In Great Britain November 2, 1948
6 Claims. (Cl. 229—37)

1. A container of the type composed of two sheets of foldable material spaced apart in parallel relation to receive an article between them, having an extension from one edge of one of the sheets folded inwardly to lie against the inner surface of the sheet and then bent at right angles away from the sheet to bridge the space between the sheets and to abut against the other sheet thereby to serve as a strut holding the sheets separated and having a tie connecting the two sheets adjacent the said edge for holding the sheets against further separation, which tie comprises a strip of foldable material bent to the form of a rectangular section tube and so associated with the sheets that one side spans the gap between the sheets, the opposite side thereto also extends across the gap, one of these two sides passing through slots in the two sheets, and the other pair of opposed sides lie against the outer faces of the two sheets respectively.

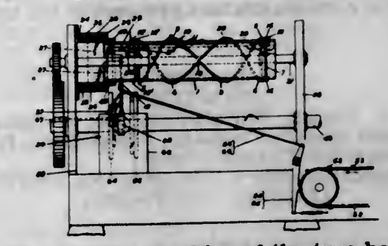


2,591,883

KNITTING MACHINE

Arthur Shortland, Leicester, England, assignor to Mellor Bromley and Company Limited, Leicester, England

Application June 1, 1949, Serial No. 96,470
In Great Britain June 5, 1948
13 Claims. (Cl. 66—110)



1. In a knitting machine of the type having a member movable to and fro, mechanism for driving the aforesaid member to and fro comprising a continuously rotatable cam member having on it two helical tracks of opposite hand with end portions which connect the two tracks smoothly at both ends, a follower for engaging the tracks and arranged to pass from one to the other by way of the end portions as the cam member is rotated, whereby the follower is traversed to and fro, means for connecting the follower to the member to be driven to and fro, and controllable means for causing the follower to remain at an end of the rotating tracks as required.

2,591,884

ALKYD RESIN-DIISOCYANATE CELLULAR FOAMED PLASTICS

Eli Simon, Los Angeles, and Frank W. Thomas, Burbank, Calif., assignors to Lockheed Aircraft Corporation, Burbank, Calif.

No Drawing. Application February 17, 1949, Serial No. 77,058
24 Claims. (Cl. 260—2.5)

21. The method of making cellular plastic which comprises providing an alkyd resin having an acid number of from 5 to 80 and a water content of from 0.1% to 5% by weight and wherein the hydroxyl and carboxyl groups in the alkyd

resin reactants are in the ratio range of from 3(OH):1(COOH) to 4(OH):5(COOH), mixing said alkyd resin and from 35 to 150 parts by weight of meta-toluene diisocyanate for each 100 parts by weight of said alkyd resin, from 1 to 20 parts by weight for each 30 parts by weight of said alkyd resin of a fire retardant alkenyl ester of arylphosphonic acid additive chosen from the group consisting of: diallyl phenyl phosphonate, bis (methallyl) benzenephosphonate, diallyl toluene phosphonate, and a small amount of a thermoplastic film-forming polymer soluble in meta-toluene diisocyanate, and then allowing the resultant mixture to react.

2,591,885

PURIFICATION OF TALL OIL PITCH

Roscoe S. Smith, Tuscaloosa, Ala., assignor to West Virginia Pulp & Paper Company, New York, N. Y., a corporation of Delaware

Application August 25, 1949, Serial No. 112,311
4 Claims. (Cl. 260—97.7)

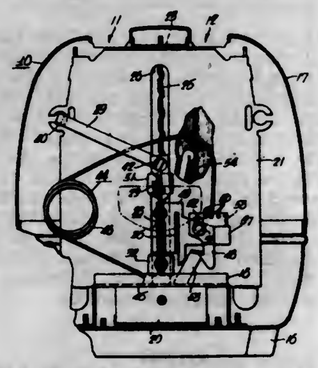
1. The method of treating tall oil pitch consisting in forming a mixture of said pitch and a dilute aqueous alkaline solution capable of reacting with tall oil acids to form water soluble soaps therewith, such alkali source being in moderate excess of that corresponding to the acid number of said pitch, allowing the mixture to stand at a temperature close to the boiling point of said mixture, but without causing the same to boil until separation takes place of an upper oil layer, separating same from a lower aqueous layer containing fatty acid soaps and recovering the insoluble upper layer consisting largely of fatty acid esters of alcohols originally present in the tall oil pitch.

2,591,886

TOASTER

Paul C. Snyder, Philadelphia, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 5, 1949, Serial No. 103,078
15 Claims. (Cl. 99—391)



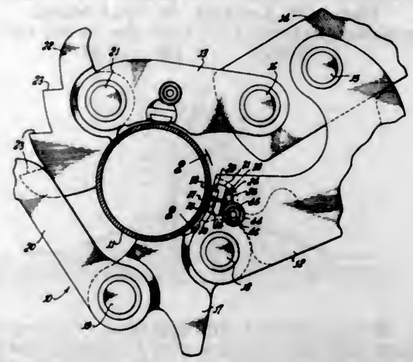
1. In a bread toaster, an enclosing housing adapted to receive a bread slice to be toasted, electric heating means arranged within said housing to toast a bread slice therein, a bread-carrier assembly within said housing movable between non-toasting and toasting positions, means within said housing adapted to move said carrier assembly to the non-toasting position, manual means having rigid connection with said carrier assembly as regards movement of the latter between said positions, said manual means extending exteriorly of said housing for access to the user, whereby said carrier assembly may be moved to the toasting position by force applied thereto through said manual means in a direction toward the toasting position, a first latch member within said housing fixed as regards movement of the carrier assembly, an extension on said carrier assembly within said housing, a second latch member within said housing connected to said extension through a lost-motion pivotal connection and engageable with said first latch member to retain said carrier assembly in the toasting position, said lost-motion connection permitting slight movement of the carrier assembly while the same is latched, and a projection on said second latch member engageable by said extension to effect unlatching movement of said second latch member upon slight movement of the carrier assembly by force applied thereto through said manual means, whereupon the carrier assembly moving means effects complete movement of the carrier assembly to the non-toasting position.

2,591,887

MOVABLE GRIPPING UNIT FOR PIPE WRENCHES

Willy H. Spiri, Whittier, Calif., assignor to Abegg & Reinhold Co., Los Angeles, Calif., a corporation of California

Application June 8, 1951, Serial No. 230,530
8 Claims. (Cl. 81—180)



1. A well pipe gripping tool comprising a body having a portion to be received at a side of the pipe and containing a partial cylindrical recess extending axially of the pipe and open along an inner side facing the pipe, a gripping unit carried by the body having a partial cylindrical portion received and guided for rotational movement in said recess, said recess having an open end from which said unit is slidable in an axial direction out of engagement with the body, and a retaining element removably attachable to the body and having a portion extending transversely of said recess near said open end thereof and engageable by said unit to maintain it against removal in said axial direction, said unit having a portion projecting in said axial direction alongside said element and positioned to engage the element upon rotational movement of the unit to limit said movement.

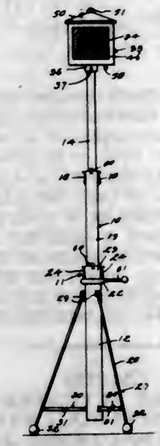
2,591,888

PORTABLE HIGHWAY SIGNAL LIGHT

Edward F. Steffen, Alvin, Tex.

Application December 17, 1948, Serial No. 65,833
1 Claim. (Cl. 177—327)

A portable highway signal light comprising a supporting standard formed of telescopic sections, a collapsible tripod base connected to and disposed around the lower section of said standard for supporting the standard in an upright position, a lamp casing mounted on the upper end of said standard having side walls each including a colored translucent portion, a light source within the lamp casing for illuminating said translucent portions, a self contained electric power source removably mounted in the upper section of the standard and supported thereby in direct contact with the light source for supplying current thereto, and means swivelly connecting the upper and lower portions of the standard whereby the lamp casing may be turned, extended or retracted relatively to the tripod base, said



means comprising an annular outturned flange on the upper end of the lower standard section, a sleeve having a circumferentially enlarged lower end portion defining an inwardly opening annular channel for receiving the annular flange to rotatably mount the sleeve on the lower standard section, the upper portion of said sleeve slidably engaging a section of the standard which telescopes into said lower standard section, and spring latch means carried by said sleeve for latching engagement with the last mentioned standard section when the latter is in an extended position for latching the last mentioned standard section to the sleeve for swivelly supporting it in an extended position relatively to said lower section and the tripod base.

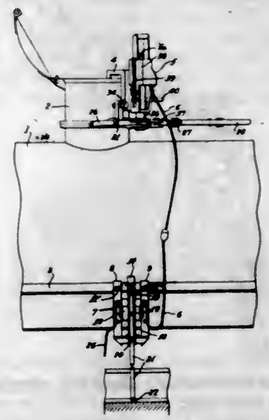
2,591,889

EMERGENCY VALVE CONTROL

Carl Sundstrom, Syracuse, N. Y., assignor to Allied Chemical & Dye Corporation, a corporation of New York

Application October 24, 1946, Serial No. 705,400
4 Claims. (Cl. 137—21)

3. In combination a railway tank car having an eduction valve mounted within a valve housing on top of the car and an emergency valve control for stopping flow in a conduit connected to the tank car upon movement of the car, the emergency control comprising a solenoid-actuated valve mounted on said tank car and connected by a fluid conduit to said tank car valve, a valve control unit comprising an electric switch controlling current to said solenoid valve, and a switch-actuating member forming an engagement between the car and a stationary object



and adapted to actuate said switch upon relative movement of the car with respect to said object.

2,591,890

PRODUCTION OF HIGH MOLECULAR WEIGHT RESINOUS AND PLASTIC MATERIALS HAVING AN AROMATIC STRUCTURE

Ralph B. Thompson, Hinsdale, and Louis Schmerling, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application November 24, 1948, Serial No. 61,926
13 Claims. (Cl. 260—2)

1. A process for producing a resinous product from an alkyl aromatic hydrocarbon containing from 2 to 4 alkyl groups each having at least one hydrogen atom attached to the alpha-carbon atom, which comprises reacting said hydrocarbon with at least one molecular proportion of an organic peroxidic compound per molecular proportion of hydrocarbon at a temperature of from about the decomposition temperature of the peroxide to a temperature about 100° C. in excess of said decomposition temperature and at a pressure sufficient to maintain said reactants in substantially liquid phase.

2,591,891

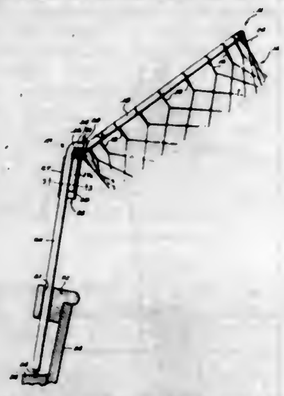
DEMOUNTABLE STRUCTURE

Clifford G. Thorsen, Chicago, Ill.

Application January 26, 1948, Serial No. 4,383
10 Claims. (Cl. 42—55)

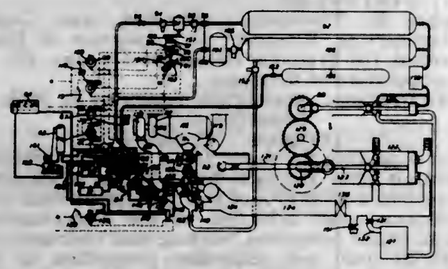
1. A demountable structure comprising a plurality of members and a clip for interconnecting the members, said clip having resilient spaced wall portions forming an elongated channel having an open side and an open end, one of said members having outstanding fingers insertable in said channel in position with projecting portions of said fingers extending outwardly of said channel at the open end thereof, said clip having a lug formed with an opening and providing a seat disposed outwardly of the projecting portions of said fingers when the same are in mounted position in said clip, another of said members having a neck portion formed to extend in said opening and to rockingly engage said seat, and a rodlike portion adapted to be

clippingly received in the open side of the channel and there held by and between said spaced



wall portions in position blocking removal of said finger from said clip.

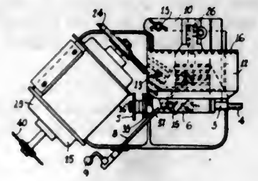
2,591,892
CHARGING DEVICE FOR INTERNAL-COMBUSTION ENGINES
Ernest Frederick Ryder Townshend, Waterlooville, England
Application October 1, 1946, Serial No. 700,415
In Great Britain October 5, 1945
14 Claims. (Cl. 123—180)



1. An internal combustion engine having starting means including means, capable of operating when the engine is stationary, for introducing a charge of cold precompressed starting air into a cylinder when its piston is stationary and near the beginning of the working stroke, means for thereafter introducing fuel into the said completed charge of cold starting air in the same cylinder, and means for igniting the fuel as it enters the said cylinder whereby it is burned in the said charge of cold starting air in the said cylinder during the same working stroke.

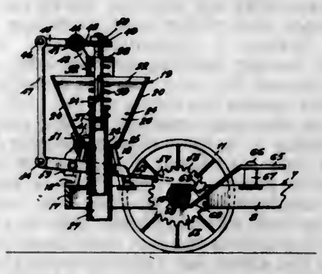
2,591,893
MACHINE FOR GRINDING TWIST DRILLS
Karl Trippel, Choindez, Switzerland
Application May 24, 1947, Serial No. 750,300
In Germany November 26, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires November 26, 1960
5 Claims. (Cl. 51—219)

1. A machine for grinding twist drills having cutting faces formed with a narrow hollow chamfer along their edges, and with a hollow ground part adjoining such edges at the rear; said machine comprising a base, a grinding wheel rotatably supported on said base with the axis thereof disposed in a horizontal plane, a support slidable on said base in a path of travel related angularly to the axis of said wheel, a drum having a cylindrical outer surface and a conical inner surface rotatably mounted on said support with the axis of rotation of said drum disposed in said horizontal plane of the grinding wheel axis, angularly spaced grooves formed in the outer surface of said drum, a locking pin carried by said support and engaging in a selected one of said grooves for retaining said drum in a selected one of a plurality of angularly adjusted positions, a plurality of sets of bores formed in



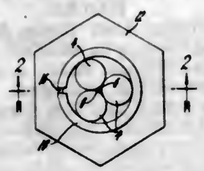
said drum in angularly spaced radial planes of said drum, each of said bores being perpendicular to said conical inner surface of said drum and adapted to receive a drill to be ground, and stops carried by the outer surface of said drum adjacent the outer end of each bore for retaining a drill in the associated bore whereby said drum is adapted to support a drill for grinding in a substantially horizontal plane at the level of the axis of the grinding wheel for movement past the periphery of the wheel in a direction parallel to the path of travel of said support.

2,591,894
INTERMITTENTLY ACTUATED DISTRIBUTOR DISPENSING VALVE
Edwin Voges, Ireland, Tex.
Application June 10, 1949, Serial No. 98,357
3 Claims. (Cl. 222—185)



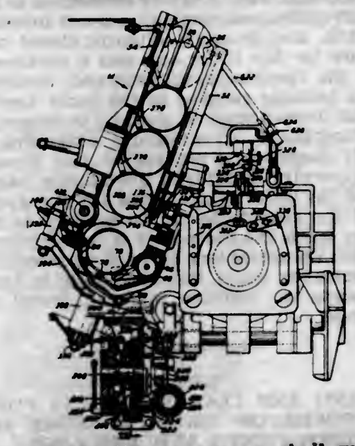
1. The combination with a distributor of the character described including a frame, a hopper supported on said frame having a bottom provided with a depending discharge pipe, of a dispensing tube telescopically disposed in said discharge pipe and extending upwardly therefrom, said dispensing tube having at least one discharge opening connecting the hopper and its discharge pipe when the tube is in an elevated position and which is closed by the discharge pipe when the tube is in a lowered closed position, spring means urging said tube downwardly for closing the discharge opening thereof, a driven cam wheel rotatably mounted in the frame, and link and lever means connected to said dispensing tube and intermittently engaged and actuated by the cam wheel for raising the dispensing tube to expose the discharge opening thereof, said spring means returning the dispensing tube to a closed position when the link and lever means is released by the cam wheel.

2,591,895
SHAFT GAUGE
Cyril T. Wallis, Brockport, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application August 31, 1949, Serial No. 113,364
1 Claim. (Cl. 33—178)



In a gauge for shafts or the like, a body, three parallel cylinders of substantially equal diameters mounted in said body, and clamping means between said body and cylinders to engage and force said cylinders into elemental line contact with each other to provide an opening of predetermined size between said cylinders to receive the shaft to be gauged.

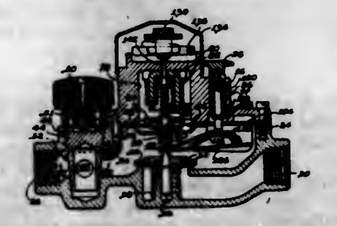
2,591,896
GUN LOADING MECHANISM
John E. Walsh, Beverly, and Chester W. Greene, Lynn, Mass., assignors to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 16, 1948, Serial No. 44,534
18 Claims. (Cl. 89—33)



1. In combination, a gun, a shell magazine mounted for bodily movement relatively to the gun into and out of gun-loading position, and means carried by said magazine for ramming a shell into the gun when the magazine is in gun-loading position.

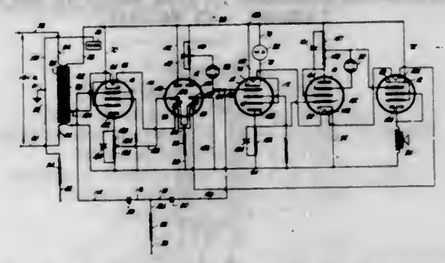
2,591,897
SAFETY DEVICE FOR FUEL BURNERS
Victor Weber, Greensburg, and Russell F. Garner, Youngwood, Pa., assignors to Robertshaw-Fulton Controls Company, Youngwood, Pa., a corporation of Delaware
Original application April 1, 1944, Serial No. 529,201. Divided and this application April 21, 1948, Serial No. 22,406
6 Claims. (Cl. 137—139)

1. Resetting mechanism comprising an operating lever having a free end, a holding lever positioned on one side of said operating lever and having a free end extending substantially parallel thereto, means for mounting said levers for independent pivotal movement, a connecting lever pivotally mounted at one end on said holding lever and having motion transmitting engagement at the opposite end thereof with said operating lever, biasing means for moving the free end of said holding lever toward said operating lever, second biasing means for moving the free end of said operating lever toward said holding



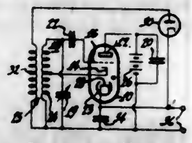
lever, said second biasing means having greater force than said first biasing means, and means operable on said connecting lever for overcoming both said biasing means and causing movement of said free end of said operating lever away from said free end of said holding lever, said second biasing means being effective for returning said operating lever to initial position and preventing movement of said holding lever when said last means is inoperative.

2,591,898
STATIC ELECTRICITY INSTRUMENT HAVING AUDIBLE INDICATOR
Raymond C. Webster, Kansas City, Mo., assignor to W. E. Anderson, Inc., a corporation of Missouri
Application August 23, 1948, Serial No. 45,738
6 Claims. (Cl. 177—311)



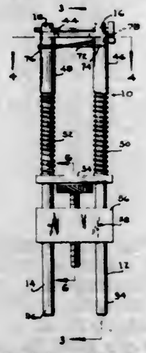
2. An indicating instrument for determining the presence of either a positive or a negative charge on a body comprising a pick-up antenna adapted to be movably positioned adjacent to the body for induction of a charge thereon, a first three electrode tube having its control grid coupled with said antenna and being operative to pass current through its output circuit in response to a positive charge induced on the grid thereof, a second three electrode tube also having its control grid coupled with said antenna and being operative to pass current through its output circuit in response to a negative charge induced on the grid thereof, a pair of power supply conductors connected to said tubes, the plate element of each tube being connected to only one of said conductors, biasing means associated with the grid circuits of said tubes and a signal indicator in the output circuit of said first named tube and being operably responsive to current flow through said output circuit when either of said tubes operatively responds to positive or negative charges induced on a respective grid.

2,591,899
SELF-SUSTAINING GAS TUBE CIRCUIT
William Merle Webster, Jr., Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 2, 1951, Serial No. 203,950
9 Claims. (Cl. 315—349)



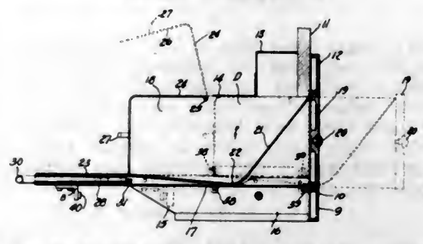
1. In a system for operating a gas filled electron tube of the type having electrodes including an anode, a cathode, a control electrode therebetween, and an auxiliary electrode cooperable with one of said electrodes for passing ionizing current through the tube gas, in combination, an oscillatory circuit connecting said anode, said cathode and said control electrode and including a first coil, a source of voltage less than that required to ionize said tube gas, said voltage source being connected between said anode and said cathode to sustain low amplitude oscillations in said oscillatory circuit prior to ionization of said tube gas, and means connecting said auxiliary electrode to said one electrode through said voltage source to derive from said low amplitude oscillations a voltage of sufficient amplitude, when added to said source voltage, to ionize said tube gas, said means comprising a second coil having a relatively large number of turns as compared to said first coil and closely inductively coupled to said first coil.

2,591,900
BOW HAIRING TOOL
Benton A. Whiteman, Glen Allen, Va.
Application December 15, 1950, Serial No. 200,915
7 Claims. (Cl. 84—453)



3. A device for hairing the bow for a stringed instrument comprising parallel supporting members, a pin slidably disposed transversely through the supporting members, means carried by one of said members for preventing complete withdrawal of the pin therefrom, a clamping plate slidably disposed on the supporting members for movement thereon relative to the pin, said plate being positioned transversely between the supporting members and disposed parallel to the pin, spring means urging said plate into loose clamping relation with the pin when the pin is in a closed position transverse of the supporting members, said plate and pin in such relation engaging a group of strands and spreading the strands into parallel positions, means for compressing the spring means to force the plate into tight clamping engagement of the strands, and means for releasably locking the plate on the supporting members in a position spaced from the pin.

2,591,901
DEPOSITORY RECEPTACLE FOR DRIVE-IN BANKS
Harvey R. Wickes, Carl Bintz, Harvey A. Kretschmer, and George C. Kendall, Saginaw, Mich., assignors to Wickes Bros., a division of The Wickes Corporation, Saginaw, Mich.
Application May 20, 1949, Serial No. 94,296
3 Claims. (Cl. 109—19)

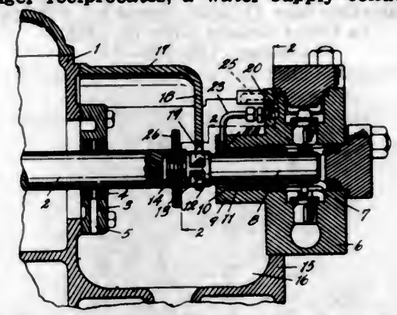


1. In an apparatus of the character described, the combination with a bullet-proof wall having an opening therethrough, a horizontally disposed counter on the inner face of the wall, and a receptacle mounted on said counter comprising side, end and bottom walls, said end wall normally forming a closure for said opening, a combination cover and end wall hingedly connected to the upper edge of the receptacle at a point intermediate its length, and forming, when in closed position, a closure for the inner end and a portion of the top of the receptacle, an enlarged, inwardly extending housing secured to the inner face of the wall and formed with an opening to accommodate said receptacle, an inwardly extending, horizontally disposed lip secured to said housing directly above the opening in the housing, said housing and lip forming a closure for the open portion of the receptacle not covered by said cover member when the receptacle is in retracted position, said lip preventing upward movement of the cover member when the receptacle is extended, and means for limiting outward travel of said receptacle.

2,591,902
WASHING AND COOLING MEANS FOR THE PLUNGERS OF HIGH-PRESSURE HOMOGENIZER PUMPS AND THE LIKE
Reinhard A. Yohpe, Battle Creek, Mich., assignor to Union Steam Pump Company, Battle Creek, Mich.
Original application October 22, 1947, Serial No. 781,420. Divided and this application January 10, 1949, Serial No. 70,046
6 Claims. (Cl. 103—204)

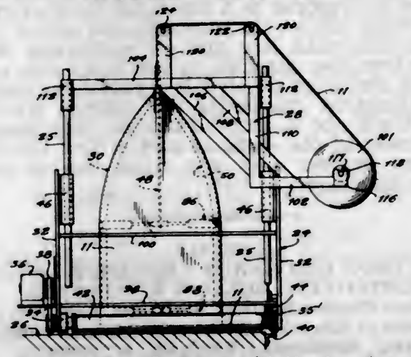
1. In a pump, the combination of a cylinder block provided with a cylinder bore, said cylinder block having a boss-like extension on its rear side into which the cylinder bore extends, a power unit for said pump comprising a housing on which said cylinder block is mounted, a plunger rod, said housing being provided with a packing through which said plunger rod reciprocates, a drip well between said cylinder block and plunger rod packing, a plunger reciprocable in said cylinder bore and having a threaded coupling stud at its rear end, said plunger rod having an internally threaded bore in its front end adapted to receive the said threaded stud of said plunger,

the plunger having a portion at its rear end adapted for engagement by a wrench, a cover for said drip well having a front wall spaced from the rear end of the cylinder block extension and provided with an opening through which the plunger reciprocates, a water supply conduit in



said cylinder block, a delivery connection from said conduit to said bore within said extension to discharge water upon the plunger, said water supply conduit being provided with an overflow disposed in a plane above said delivery connection, and a control valve for said water supply conduit.

2,591,903
SPREADING APPARATUS FOR FLATTENING TUBULAR FABRIC
Clarence Yost, Hazleton, Pa., assignor to Y & S Mfg. Co., Hazleton, Pa., a copartnership
Application February 28, 1951, Serial No. 213,181
27 Claims. (Cl. 26—55)

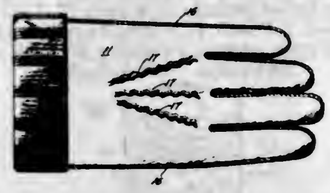


1. A spreading device for flattening traveling tubular fabric, comprising a first spreader element for flattening the fabric tube in one plane, and a second spreader element for flattening the tube in another plane, said spreader elements being axially overlapped and connected, said spreading device being adapted for internal engagement with the fabric tube whereby the fabric tube on discharge from the spreading device will be flattened in a divergent plane transversely disposed relative to the plane of entry of said fabric tube on the spreading device.

2,591,904
COATING COMPOSITIONS AND PREPARATION THEREOF
John C. Zola, Arcadia, Calif.
No Drawing. Application October 29, 1947, Serial No. 782,961
25 Claims. (Cl. 106—170)

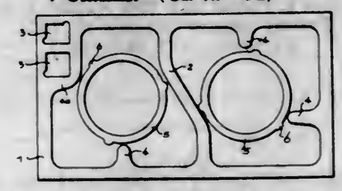
1. A stable coating composition which comprises a dispersion of discrete particles of coating materials in an aqueous dispersing medium containing a suspension stabilizer, most of said particles being larger than 50 microns in size and certain of said particles being of different color than others of said particles.

2,591,905
GLOVE
Bert Kennedy, Johnstown, N. Y.
Application November 22, 1949, Serial No. 128,793
1 Claim. (Cl. 2—164)



A glove comprising a pair of separate parts, each of said parts having a wrist portion at one end and finger portions at the other end, one of the parts acting as a lining and provided with an extended cuff portion, the other part adapted to fit over said lining and having a portion in contact therewith, said other part including a palm and a back section connection together by sidewalls uniformly tapered throughout their length, the large ends of the sidewalls being at the wrist portion thereof and the small ends of the sidewalls being at the finger portions thereof, thereby forming a pocket progressively widening from the finger portions to the wrist portion adapted to retain a hand and said one part therein, the lining contacting portion of said other part being roughened to assist in preventing relative movement between the two parts when assembled on the hand, and the said cuff portion on the one part overlapping the other part.

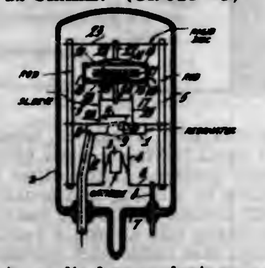
2,591,906
CHIMNEY STRUCTURE
Josef Altmann, Salzburg, Austria
Application February 18, 1948, Serial No. 9,212
In Austria March 19, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires March 19, 1966
7 Claims. (Cl. 72—94)



1. A chimney building element comprising at least one tubular cylindrical flue element provided with at least one longitudinal rib projected radially from its outer wall surface, and a hollow one-piece building block completely surrounding said flue element and receiving said flue element with some play, said hollow block comprising a peripheral wall and at least one inner wall surface forming a clamping surface for said rib, said surface being positioned approximately tangentially to the circumference of said flue element and at a distance from the center of said flue element which is greater than the radius of the latter and smaller than said radius plus the radial thickness of said rib, whereby turning said flue element about its axis

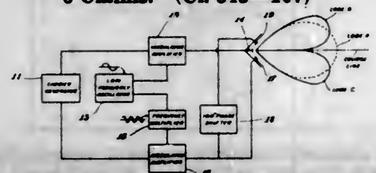
causes said rib to engage said clamping surface with a camming action to firmly wedge said flue element in said block.

2,591,907
THERMALLY ADJUSTABLE ELECTRICAL DEVICE ENCLOSED WITHIN ENVELOPES
Albert Horace Atherton, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain
Application April 26, 1946, Serial No. 665,032
In Great Britain February 27, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 27, 1965
12 Claims. (Cl. 315—5)



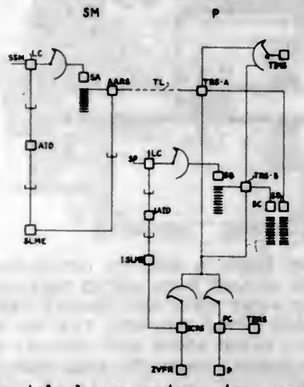
1. An electron discharge device comprising a hollow resonator having a flexible wall whose position determines the tuning of said resonator, tuning means for said resonator comprising two metallic expansible members spaced equidistantly from each other, means mounted adjacent said expansible members for individually heating said members, a rigid link between said expansible members, another rigid link between the flexible wall of said resonator and one of said expansible members, and a sealed envelope surrounding said resonator, said tuning means, said heating means and said rigid links.

2,591,908
RADIO NAVIGATION AID
Christopher Edmund Gervase Bailey, London, England, assignor to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application January 24, 1948, Serial No. 4,108
In Great Britain October 25, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires October 25, 1964
6 Claims. (Cl. 343—107)



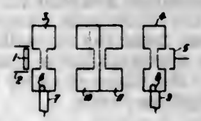
1. In a radio beacon system for defining a course line, the combination comprising means to project on either side of said course line a first radiation pattern of wave energy modulated by periodic rectangular pulses having a predetermined frequency, the duration of the pulses in said first pattern being equal to the spacing therebetween, and means to project a second and overlapping radiation pattern on either side of said course line modulated by periodic rectangular pulses having a frequency twice that of said predetermined frequency, the duration of the pulses in the second pattern being less than the spacing therebetween.

2,591,909
MULTIPLE OFFICE VOICE-FREQUENCY LINE IDENTIFICATION SYSTEM
George Thomas Baker, Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application May 27, 1946, Serial No. 672,386
In Great Britain June 13, 1945
12 Claims. (Cl. 179—7)



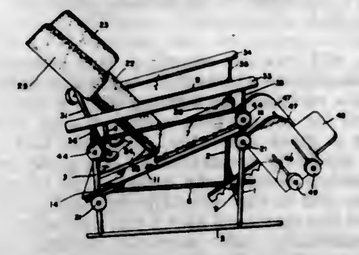
9. In a telephone system, two exchanges, a calling line in one of said exchanges, a trunk line including a talking path extending between said exchanges, a control lead over which signals are transmitted indicative of a calling subscriber plural digit directory number, a source of voice frequency potential, a connection extended from said calling line over said trunk line to the other of said exchanges, signal responsive means operated in response to a signal transmitted over said trunk line for disconnecting said calling line from said trunk line and for connecting said voice frequency potential to said trunk line, and means controlled by said signal responsive means for thereafter connecting said control lead to said trunk line in order to transmit said signals indicative of the digits of said calling line directory number over said trunk line to said other exchange.

2,591,910
ELECTRON DISCHARGE AMPLIFIER DEVICE EMPLOYING HOLLOW RESONATOR
Norman Charles Barford, Southend, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application October 18, 1946, Serial No. 704,225
In Great Britain September 10, 1945
Section 1, Public Law, 690, August 8, 1946
Patent expires September 10, 1965
7 Claims. (Cl. 315—6)



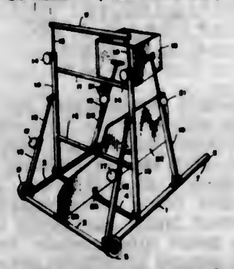
1. An electron discharge amplifier device comprising cathode means for generating and directing a stream of electrons along a beam path, input resonator means in said path adjacent said cathode means and tuned to a first frequency of the order of thousands of megacycles for velocity modulating said electrons, output resonator means in said path and spaced from said velocity modulating means and tuned to said first frequency for extracting oscillatory energy from said stream, and other means for increasing the bandwidth of said device comprising resonator means in said path intermediate said velocity modulating means and said energy extracting means and tuned to a second frequency differing from said first frequency by about ten megacycles.

2,591,911
CHAIR FOR HANDICAPPED PERSONS
Joseph J. Block, Chicago, Ill.
Application September 19, 1946, Serial No. 697,943
7 Claims. (Cl. 155—28)



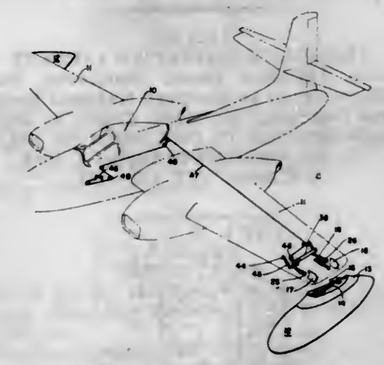
1. A chair for invalid persons comprising a frame having four hollow quadrangularly spaced upright members, a platform disposed within said frame, a fitting slidably mounted on each of said upright members and having pivoted supporting connection with said platform, clamping means on each of said fittings adapted to hold the fitting at any desired position on the respective upright member, a backrest mounted on said platform and adjustable to vary its vertical angle relative thereto, an arm rest extending from front to rear along each side of said chair frame and having pivotally connected supporting members telescopingly slidable in the respective hollow upright members, and means on said upright members arranged to clamp and hold said supporting members in any position of telescoping engagement.

2,591,912
WALKING TRAINER FOR SPASTIC CHILDREN
Joseph J. Block, Chicago, Ill.
Application September 30, 1948, Serial No. 52,039
8 Claims. (Cl. 155—22)



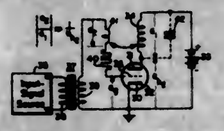
1. A device of the class described comprising a base having side members rigidly connected adjacent their forward ends and having laterally spaced gliding means at its forward end adapted for movement of said base in the forward direction, a pair of vertical members pivotally mounted one on each side of said base for fore and aft angular movement in a vertical plane, cross means rigidly connecting said vertical members adjacent their upper ends, a hand bar extending between the longitudinal axes of said vertical members above said cross means and having a support at each end telescopingly fitting a respective one of said vertical members, releasable clamp means for locking each support in rigid relation with its respective vertical member, and adjustable means extending between said vertical members and said base and adapted to hold said vertical members rigidly in variable angular relation with respect to said base.

2,591,913
MEANS FOR RELEASABLY SUPPORTING AIRCRAFT COMPONENTS
Frank Bowers, Williamsville, N. Y., Paul F. Joseph, Columbus, and Kenneth C. Holmes, Westerville, Ohio, assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application June 24, 1947, Serial No. 756,762
5 Claims. (Cl. 244—135)



1. In combination with an aircraft wing, a releasable component carried thereby, said wing at the tip thereof and said component having cooperating formations for supporting said component against movement away from the wing in all directions except outwardly in a spanwise direction, a latch pivoted to the wing along a substantially chordwise axis, the latch having a formation arranged for engagement with a latch detent on the component, said formation engaging said latch detent to restrain the component against outward spanwise movement, a latch operating toggle pivotally connecting an extension of the latch to the wing, said toggle being movable from a limit position to a latch releasing position through a fully extended position, stop means for limiting movement of the toggle in one direction to slightly beyond its fully extended position, the toggle in said limit position holding the latch operative, and means for operating said toggle from said limit position through its fully extended position to effect release of said latch.

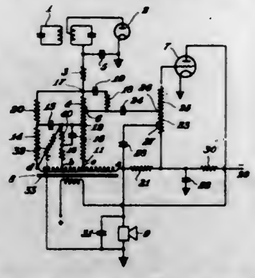
2,591,914
SELF-SUSTAINING SAWTOOTH CURRENT GENERATOR
Jack E. Bridges, Cicero, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application November 26, 1949, Serial No. 129,671
7 Claims. (Cl. 250—36)



1. A self-sustaining sawtooth current generator comprising: a bidirectional electron-discharge device having a pair of thermionic cathodes spaced along an electron-discharge path and a control

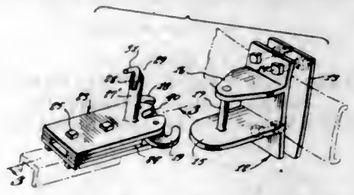
electrode disposed across said path intermediate said cathodes, and having an effective amplification factor as measured from said control electrode to one of said cathodes; an output circuit, including an inductor and having a predetermined natural resonant frequency, coupled between said cathodes; means for impressing a unidirectional operating potential difference between said cathodes and in series with said inductor; and an input circuit coupled to said control grid and to the other of said cathodes and comprising means inductively coupled to said output circuit by a voltage ratio materially greater than the reciprocal of said amplification factor for periodically exciting said output circuit into substantially one-half cycle of self-oscillation at said predetermined frequency.

2,591,915
FEEDBACK AMPLIFIER CIRCUIT
Henricus Adrianus Broos, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 12, 1949, Serial No. 104,335
In the Netherlands August 7, 1948
3 Claims. (Cl. 179—171)



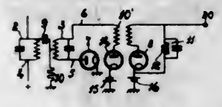
3. An electrical circuit arrangement for amplifying an input signal voltage having frequency values within a given range, comprising an electron discharge tube having an input circuit and an output circuit, a potentiometer having a top terminal, an intermediate terminal, a bottom terminal and a movable contact, said potentiometer having a first given resistance value between said top and bottom terminals and a second given resistance value between said intermediate and bottom terminals, means to apply said input signal voltage to said top terminal, means to intercouple said movable contact and said input circuit, means comprising a first impedance element having an impedance value smaller than said first given resistance value to derive a positive feedback voltage from said output circuit and to apply said positive feedback voltage to said top terminal, means comprising a second impedance element having an impedance value smaller than said second given resistance value to derive from said output circuit a first negative feedback voltage having an amplitude of the same order of magnitude as the amplitude of said positive feedback voltage and to apply said first negative feedback voltage to said intermediate terminal, means to derive from said output circuit a second negative feedback voltage having an amplitude value relatively high with respect to the amplitude value of said positive feedback voltage and to apply said second negative feedback voltage to said bottom terminal, and filter means intercoupling said output circuit and said potentiometer to produce along said potentiometer a negative feedback potential having at medium frequencies of said range an amplitude progressively greater toward said bottom terminal.

2,591,916
SELF-LOCKING TRAILER COUPLING UNIT
Leslie Walter Caughman, Buena Vista, Colo.
Application June 10, 1950, Serial No. 167,339
2 Claims. (Cl. 280—33.15)



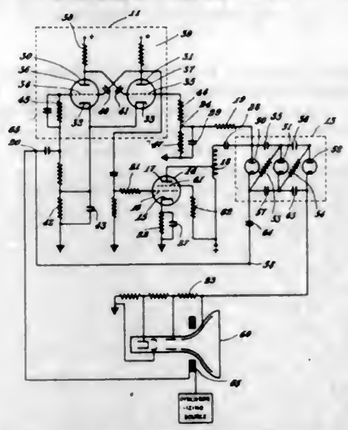
1. A self-locking coupling unit comprising a part adapted for connection to an automobile and having a vertically extending post, a second part adapted for connection with a trailer and comprising a plate assembly, pivotable locking elements pivotally connected to the plate assembly and having projections adapted to overlap one another and to surround the vertically extending posts of the one part, and a pin adjustable on the plate assembly, said movable locking elements having openings therein adapted to receive said pin whereby to lock the elements against angular displacement after engagement about the vertically extending posts of the one part, and said plate assembly having a tubular projection in which said pin is vertically adjustable, said tubular projection having its upper end notched, said pin having a handle portion adapted to extend through the notch of the tubular projection whereby to permit the lowering of the pin through the openings in the movable locking elements, and spring means acting between the pin and the tubular projections for normally urging the pin downwardly toward the movable elements.

2,591,917
DEMODULATOR
Johannes Meyer Cluwen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application May 16, 1950, Serial No. 162,286
In the Netherlands June 9, 1949
3 Claims. (Cl. 250—27)



1. A push-pull demodulator for demodulating an incoming carrier wave frequency modulated by an intelligence signal, said demodulator comprising first and second circuits tuned to the central frequency of said wave, said first and second circuits being intercoupled, one end of the first circuit being connected to said second circuit at a point intermediate the ends thereof, first and second amplitude detectors, a series network including an impedance and a rectifier, means to supply said frequency modulated wave to said first circuit to produce at respective ends of said second circuit first and second oscillations in phase opposition which are amplitude modulated in accordance with said signal, means coupled to one end of said second circuit to supply said first oscillations to said first detector whereby said first oscillations are demodulated, means coupled to the other end of said second circuit and to said first detector to supply said demodulated first oscillations and said second oscillations to said series network, means biasing said rectifier to an extent at which said rectifier is rendered conductive during a part of the cycle of oscillations applied thereto whereby produced across said impedance are third oscillations amplitude modulated in accordance with said signal, and menas coupled to said impedance to supply said third oscillations to said second detector whereby said frequency modulated carrier wave is demodulated.

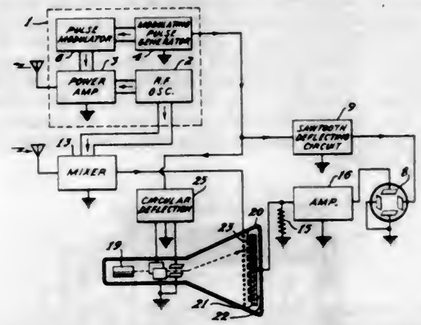
2,591,918
VOLTAGE-REGULATED ELECTRICAL POWER SUPPLY
Byron M. Cole, Ossining, N. Y., and Frederik Kerkhof, Eindhoven, Netherlands, assignors to Philips Laboratories, Inc., Irvington on Hudson, N. Y.
Application October 15, 1949, Serial No. 121,518
8 Claims. (Cl. 315—19)



1. A voltage-regulated direct-current power source for supplying a load, comprising an electron discharge tube having a cathode, a control grid and an anode, an oscillatory network comprising an inductive element, means to energize said anode through said inductive element, a square wave voltage generator for producing successive pulses having a duration proportional to the magnitude of a control voltage applied to said generator, means to apply the output pulses of said square wave generator to said control electrode to alternately increase and decrease conduction to the anode of said tube and to produce an oscillatory voltage across said network during decreased conduction periods, said network being coupled to said load, means to produce a control voltage proportional to current flow through said load, and means to apply said control voltage to said square wave generator to vary the relative durations of said periods of increased and decreased conduction proportional to the amplitude of said control voltage.

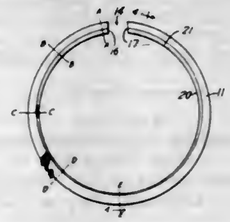
2,591,919
ELECTRICAL APPARATUS FOR DETECTING THE PRESENCE OF MOVING OBJECTS
John Collard, London, England, assignor to Electric and Musical Industries, Limited, a British company
Application April 3, 1946, Serial No. 659,196
In Great Britain January 20, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires January 20, 1961
16 Claims. (Cl. 343—9)

6. In combination, means for comparing the phase of one signal with that of another signal and for supplying an output signal of varying amplitude in response to variations in the phase relation of said signals, means comprising a cathode ray storage tube for passing said varying amplitude signals to the exclusion of constant



amplitude signals, said storage tube providing internal cancellation of constant amplitude signals, an indicator, and means for supplying to said indicator the varying amplitude signals passed by said storage tube.

2,591,920
PISTON RING
Robert H. Colvin, Delavan, Wis., assignor to Burd Piston Ring Co., Rockford, Ill., a corporation of Illinois
Application November 24, 1947, Serial No. 787,641
9 Claims. (Cl. 309—44)

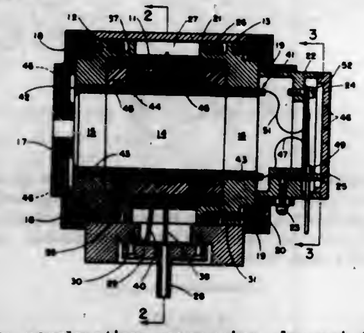


1. A one-piece piston ring comprising a split annular member having spaced opposed gap faces and a variable cross section unbalanced with respect to the transaxial plane passing midway between the axial extremities of the ring at preselected positions around the ring, the cross sections at positions approaching the faces having the greatest unbalance and the cross sections at positions approaching a position 180 degrees from a centerline between said faces having the least unbalance to produce a controlled twist at selected positions of the ring when the latter is compressed.

2,591,921
ELECTROMAGNETIC BALANCE ACCELEROMETER
Robert L. Cosgriff and Edward L. Walls, Jr., Columbus, Ohio, assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application May 28, 1949, Serial No. 95,898
9 Claims. (Cl. 264—1)

7. In an accelerometer having a capacitance pickoff, a first dielectric body having a cylindrical surface, a ring shaped condenser plate embedded in said body, an acceleration sensitive ele-

ment comprising a non-magnetic metallic tube concentric with said cylindrical surface and having an annular ridge formed thereon for coaction as a condenser plate with the aforementioned condenser plate, a second dielectric body formed upon one surface of the tube and having a cylindrical surface in telescoping relation to the cylindrical surface of said first dielectric body, there being clearance provided between said telescoping surfaces, and said first dielectric body having a passage extending into said clearance for directing gas under pressure into said clearance for suspending the acceleration sensitive element for axial motion.



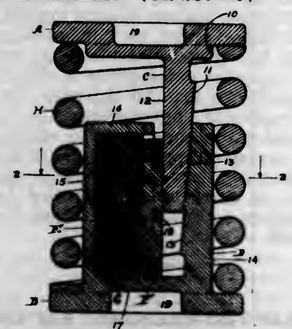
9. An acceleration responsive element for an electromagnetic accelerometer having a capacitance pickoff, said element comprising a non-magnetic metallic tube having an annular ridge formed therein, a coil around said tube to one side of the ridge, and a dielectric body formed upon the surface of the tube on each side of said ridge, said dielectric body embedding said coil, and the surface of said dielectric body being cylindrical and flush with the surface of said ridge.

2,591,922

FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS

George E. Dath, Mokena, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware

Application December 30, 1948, Serial No. 68,200
15 Claims. (Cl. 267—9)



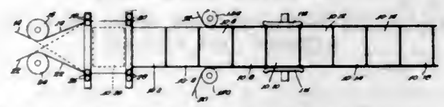
3. In a friction shock absorber, the combination with a follower; of a second follower, said followers being relatively movable toward and away from each other; a post projecting from said first named follower toward said second named follower; a housing on said first named follower, laterally spaced from the inner side of the post; a friction shoe carried by said housing and engaged as its outer end by said first named follower, said shoe being opposed to the inner side of the post; yielding means within said housing bearing on said housing and shoe for pressing the shoe toward the post; a second post on said second named follower projecting toward said first named follower and slidingly engaged between said shoe and post of said first named follower; and a spring surrounding said posts and shoe and bearing at opposite ends on said followers, respectively.

2,591,923

APPARATUS FOR FABRICATING LADDERS FOR VENETIAN BLINDS

Carl J. Delegard, Chicago, Ill.

Application January 5, 1950, Serial No. 136,955
5 Claims. (Cl. 154—1.6)



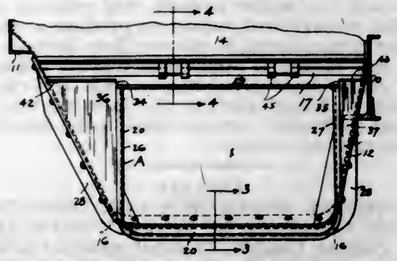
5. Equipment for fabricating ladders for Venetian blinds comprising, in combination: a series of filler and spacer blocks; each block having a filler portion shaped to define a space corresponding to the space between successive cross connections of the finished ladder in use; each block including an extension below said filler portion, available for manipulation of said block; guide means for supporting a series of said blocks juxtaposed in a horizontal row; said extensions being shaped to abut each other in said row; said filler portions being shaped to define transverse spaces between adjacent filler portions for receiving crossing portions of ladder tape; advancing means for intermittently advancing said row longitudinally a distance equal to one space; side tape feed means for positioning side tapes along said row of blocks adjacent the filler portions of said blocks; means for lacing a ladder tape to and fro around said filler portions before they reach said side tape feed means; and affixing means for affixing said side tapes to the ladder tape in contact with said side tapes.

2,591,924

METHOD OF MANUFACTURING HOPPER CAR FRAME STRUCTURE

George B. Dorey, Westmount, Quebec, Canada, assignor to Enterprise Railway Equipment Company, Chicago, Ill., a corporation of Illinois

Application December 22, 1947, Serial No. 793,235
1 Claim. (Cl. 29—164)



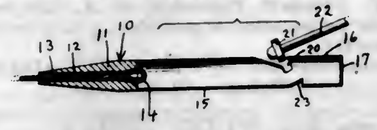
Method of manufacturing a frame for positioning around a railway car hopper opening defined by a bottom wall and side walls diverging therefrom so as to provide a discharge opening smaller than said hopper opening, said hopper opening lying in a plane at an obtuse angle to the plane of said bottom wall which comprises: providing a top beam member long enough to extend across the top of said hopper opening, shaping a strap-like member flatwise into a stirrup member so that its cross section conforms to said bottom and side walls, longitudinally splitting the ends of said stirrup member along the portions thereof conforming to said side walls, bending the outer split end portions toward each other in divergent relation to the inner split end portions so as to extend normal to said hopper opening when assembled in juxtaposition thereto to define the sides of said discharge opening, welding the upper ends of said divergent split end portions to the underside of said top beam member, and welding plate members to said divergent split end portions and to the under side of said beam member.

2,591,925

INSERTING TOOL FOR SNAP TIES

George Erbe, Jersey City, N. J.

Application January 27, 1951, Serial No. 208,200
1 Claim. (Cl. 24—201)



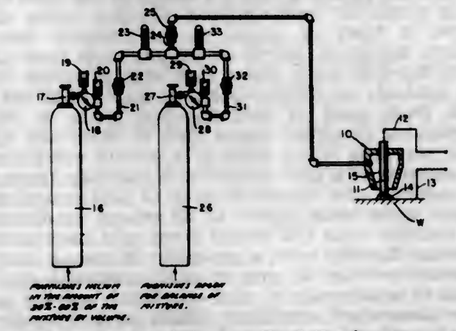
A tie rod inserting tool adapted for connection with an enlarged head on a tie rod comprising a sleeve member having an elongated notch extending from the attaching end thereof with laterally downwardly and forwardly extending notches for receiving the head on the tie rod whereby to permit the forward movement of the head through the attaching sleeve, said longitudinally extending slot being adapted to accommodate the tie rod and having a width only slightly larger than the diameter of the tie rod and an end formation on the sleeve member having a slot to accommodate the tie rod, said end formation serving as an abutment for the enlarged head on the tie rod, and a transverse abutment lying forwardly of the laterally extending notches of the elongated slot and disposed on the wall opposite the said elongated slot whereby to prevent the rearward displacement of the enlarged head of the tie rod while the tie rod is axially aligned with the sleeve member.

2,591,926

INERT GAS SHIELDED ARC WELDING METHOD

Glenn J. Gibson, Chatham, and Gilbert R. Rothschild, Somerville, N. J., assignors to Air Reduction Company, Incorporated, a corporation of New York

Application July 3, 1948, Serial No. 37,037
6 Claims. (Cl. 219—10)



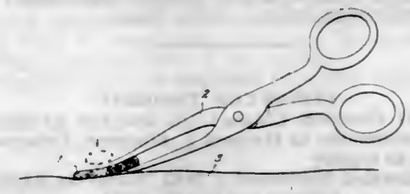
1. In an arc welding method the improvement which comprises blanketing the arc with a homogeneous mixture of helium and argon in which from 20% to 60% of the mixture by volume is helium and the balance is argon.

2,591,927

OBTAINING TUMOR TISSUE SPECIMEN

Sidney A. Gladstone, Paterson, N. J.

Application October 6, 1948, Serial No. 53,131
9 Claims. (Cl. 128—2)



6. A device for obtaining tumor tissue for microscopic examination, said device comprising a spongy mass of sterile elastic material containing a large number of pores or cavities for absorbing and retaining the tissue when rubbed on the tumor, with said material having adequate structural strength to resist material disintegration or fragmentation when rubbed on the tumor and having a composition insoluble in the agents used to process excised tissue specimens for microscopic examination and having physical properties permitting clean severance by a microtome, and with a substantial number of said pores or cavities ranging from .01 to .10 of an inch in size and dispersed throughout at least one surface of said mass, said mass being adapted to be rubbed on a tumor and thereafter processed for microscopic examination in the manner of an excised tumor specimen.

9. A method for examining a tumor to determine its type or condition, said method comprising rubbing a sponge on the surface of the tumor to absorb tissue in the interstices of the sponge, and dehydrating said sponge, impregnating said sponge with molten paraffin and allowing the paraffin to solidify and form the sponge into a solid cake, and slicing said cake to form a specimen adapted for microscopic examination thereof.

2,591,928

APPARATUS FOR MANUFACTURING LAMELLAR TUBING

Paul R. Goldman and Rudolph Alt, Andover, Mass., assignors to Plymold Corporation, Lawrence, Mass., a corporation of Massachusetts

Original application May 28, 1943, Serial No. 488,854. Divided and this application May 1, 1946, Serial No. 666,206
2 Claims. (Cl. 144—268)



1. Apparatus for the manufacture of plurally wood tubing comprising in combination, an elongated frame having initial, intermediate and delivering sections defining a work path and presenting along it a plurality of stations in predetermined spaced relation, a forming mandrel extending longitudinally through and between an initial plurality of said stations, revolubie head means at the respective initial stations for spirally wrapping individual supplies of veneer stripping in superposed tubular relation about the mandrel in different wind directions at dif-

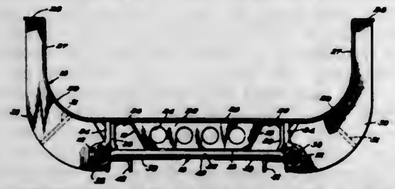
ferent stations, work-engaging means for continuously progressing the tubular work axially along the mandrel, veneer strip applying means at a succeeding station for supplying a veneer strip longitudinally to and laterally wrapping it about the spirally wrapped veneer layers, further spiral wrapping means at a station subsequent to the longitudinal strip supplying station, and drive mechanism for the wrapping and the progressing means coordinated to present the resultant endless veneer tubing continuously at the delivering section of the frame.

2,591,929

CONVEYER TROUGH

Axel G. Granath, Chicago, Ill., assignor, by mesne assignments, to Herbert S. Simpson, Evanston, Ill., as trustee

Application November 5, 1948, Serial No. 58,419
1 Claim. (Cl. 198—220)



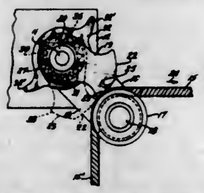
A column type shaper conveyor trough structure comprising a trough having a bottom and side walls, reinforcing webs extending downwardly from the bottom of said trough adjacent its outer margins and laterally from the side walls thereof, connecting eyes abutting said webs and extending in advance thereof and a load carrying structure for said trough connected between said webs and with said webs and eyes forming a column reinforcing the bottom of the trough for the entire length thereof, said base comprising a plurality of longitudinally spaced transverse web members secured to the bottom of said trough and depending therefrom, a bottom panel extending between said webs and secured to the bottoms of said web members and extending upwardly along opposite sides thereof and along the bottom of said trough, and being secured thereto, a reinforcing plate extending along the bottom of said bottom panel and a pair of downwardly facing tracks depending from and extending along opposite sides of said plate.

2,591,930

CLOTHESLINE TENSIONING DEVICE

Charles P. Green, Chicago, Ill.

Application April 16, 1949, Serial No. 87,955
9 Claims. (Cl. 188—64)



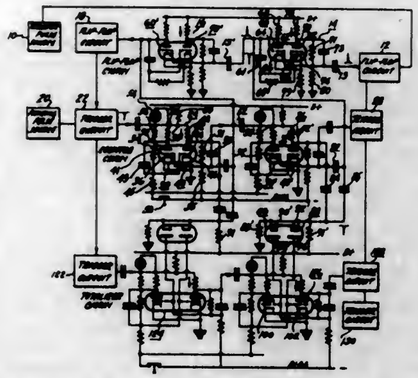
1. The combination with a cord-like member and a support to which it is adapted to be detachably mounted, of a securing device for the cord-like member comprising means mounting the device on the support, a surface on the aforesaid means about which the cord-like member is positioned, release means adjustably mounted on the aforesaid means and adapted to engage the cord-like member, said release means comprising a cam-shaped member adapted to engage the cord-like member and a release member, means normally biasing the cam-shaped member and the release member together and permitting movement with respect to each other, means latching the release means in one position whereby the cord-like member is held in its adjusted position by the cam-shaped member, and manually actuated means moving the release means into another adjusted position in which the bias means is rendered ineffective and the cam-shaped member is disengageable from the cord-like member upon a pull upon the cord-like member in one direction which automatically disengages the cam-shaped member.

2,591,931

ELECTRON COUNTER CIRCUITS

Igor E. Grosdoff, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 31, 1950, Serial No. 165,305
9 Claims. (Cl. 235—92)



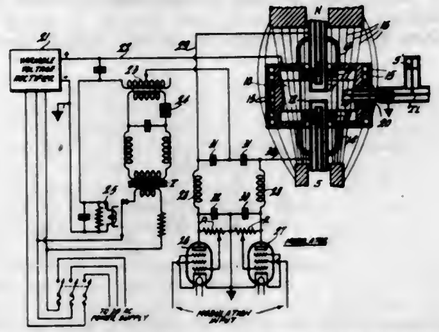
8. Apparatus for transferring a count entered into a counting chain of trigger circuit units to a totalizing chain of trigger circuit units, each of said trigger circuit units having a first and a second condition of stability, each of said counting chain units being associated with one of said totalizing chain units, said apparatus comprising a plurality of concatenated flip-flop units, each of said flip-flop units being associated with one of said counting chain units in inverse sequence, each of said flip-flop units having a stable and an unstable condition, said concatenated units being interconnected to drive each other in passing from an unstable to a stable condition, means to apply a pulse to the first of said chain of concatenated flip-flop units to drive it from its stable to its unstable condition, means to derive an output from each of said flip-flop units when said unit is driven to its unstable condition, means to apply said output from each of said flip-flop units to its associated counting chain unit to drive any of said counting chain units in a second condition of stability to a first condition of stability, means to combine the output of each of said counting chain units being driven to its second condition of stability with the output from said associated driving flip-flop unit, a plurality of means each responsive only to one of said combined outputs to apply each of said combined outputs to the associated totalizing chain unit whereby the count is transferred from said counting chain to said totalizing chain.

2,591,932

MAGNETRON

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application September 5, 1946, Serial No. 694,994
13 Claims. (Cl. 315—40)



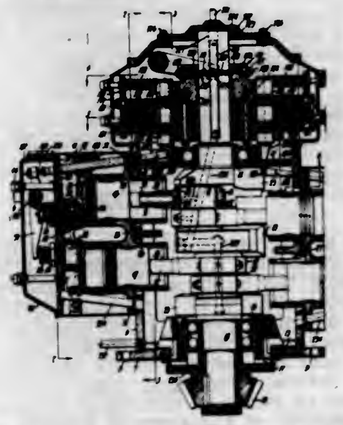
1. An electron discharge device comprising an evacuated envelope containing therein cathode and anode electrodes spaced from each other in a direction transverse to the axis of said device, one of said electrodes being divided into two parts arranged end-to-end along the axis of said device but spaced from each other, and magnetic pole pieces of different size at the respective ends of said device positioned along the axis of said device for producing a tapered magnetic field in a direction substantially parallel to said axis but whose intensity in the region of one of said two parts within said envelope is greater than in the region of the other of said two parts within said envelope.

2,591,933

STEAM ENGINE HAVING A UNITARY VALVE ACTUATOR

Robert L. Harris and Marcus Lothrop, Berkeley, Calif., assignors to Yuba Manufacturing Company, San Francisco, Calif., a corporation of California

Application October 4, 1948, Serial No. 52,662
9 Claims. (Cl. 121—127)



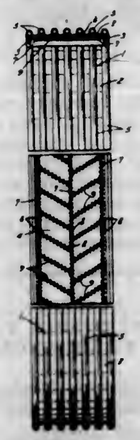
1. A steam engine comprising a crankcase, cylinders in line on said crankcase, pistons in said cylinders, a crankshaft in said crankcase, means connecting said pistons and said crankshaft, valves in said cylinders for controlling steam flow, valve linkage extending from said valves to said crankcase, actuating cams mounted on and shiftable along said crankshaft into various positions, and shafts mounted for oscillation in said crankcase parallel to said crankshaft and abutting said cams and said valve linkage for transmitting cam motion to said valves.

2,591,934

METHOD OF PRODUCING A SKID-RESISTANT TREAD FOR PNEUMATIC TIRES

Paul E. Hawkinson, Minneapolis, Minn., assignor to Paul E. Hawkinson Company, Minneapolis, Minn., a corporation of Minnesota

Application March 29, 1950, Serial No. 152,573
2 Claims. (Cl. 154—14)



1. In a method of molding a skid-resistant tread for a pneumatic casing within a cylindrical matrix by compressing a strip of camel back on a tire casing into engagement with the inner surface of said matrix; the improvement which comprises deforming a pair of normally straight lengths of serpentinely bent wire into circular loops, placing said loops within the matrix in latterally spaced relation to each other and in frictional engagement with the inner surface of the matrix, disposing relatively short lengths of serpentinely bent wire in engagement with the matrix between said loops in circumferentially spaced relation and with the axes thereof intersecting the circumferential axes of the loops, and connecting the opposite ends of said short lengths of wire to the respective loops for positively retaining same in predetermined spaced positions, whereby upon completion of the molding operation the outer portions of the loops and intermediate short lengths of wire will be uniformly disposed in a cylindrical surface coincident with that of the completed tread.

2,591,935

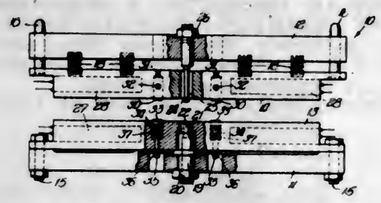
COMBINATION SEALING, PERFORATING, AND STAMPING MACHINE

Cyrus H. Heigl, South Beloit, Ill., assignor to Adams Corporation, Korn Kurls Division, Beloit, Wis., a corporation of Delaware

Application August 9, 1949, Serial No. 109,278
5 Claims. (Cl. 154—42)

1. In a machine for perforating, stamping and heat sealing moisture proof bags for food stuff and the like, in combination, a pair of relatively movable jaw members adapted to be moved toward and away from each other, a metallic sealing jaw carried by each jaw member for engag-

ing opposite bag surfaces therebetween under pressure, heating elements in said sealing jaws for maintaining the same at sealing temperature, a punch carried by one jaw member and extending through the sealing jaw carried thereby, a die carried by the other jaw member and extending through the sealing jaw carried thereby and cooperating with said punch when said jaw members are closed to perforate a bag therebe-



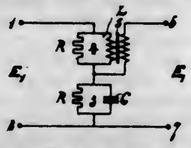
tween, a metallic stamp member carried by one sealing jaw with its face projecting beyond the surface thereof, a metallic anvil slidably mounted in the other sealing jaw with its face adapted to project beyond the surface thereof to register with said stamp member and cooperating therewith when said jaw members are closed to stamp a bag therebetween, and spring means urging said anvil toward said stamp member.

2,591,936

TRANSMISSION NETWORK FOR EMPHASIZING THE HIGH-FREQUENCIES OF APPLIED OSCILLATIONS

Gerard Hepp, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 12, 1947, Serial No. 728,046
In the Netherlands July 6, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires July 6, 1964
5 Claims. (Cl. 178—44)



1. A four terminal network adapted to emphasize the high frequencies relative to the low frequencies of oscillations transmitted therethrough, said network comprising input and output terminals, a voltage step-up transformer having a primary winding and a secondary winding, a first impedance constituted by the primary winding connected in parallel relation with a first resistance, and a second impedance constituted by a capacitance connected in parallel relation with a second resistance having the same value as said first resistance, said first and second impedances being serially connected across the input terminals, said secondary winding being connected in series with said second impedance across the output terminals.

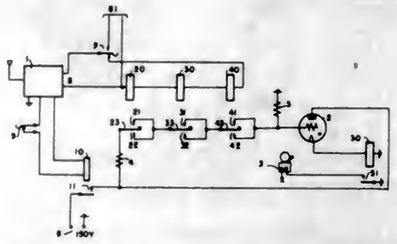
2,591,937

SELECTIVE CALLING SYSTEM

Roswell H. Herrick, Lorain, Ohio, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application May 1, 1947, Serial No. 745,202
12 Claims. (Cl. 177—353)

2. In a signaling circuit, receiving means over which the circuit is seized, a source of potential, a gas tube having a grid, said tube energized responsive to energization of the grid, an energizing circuit for said grid, a control relay operated responsive to seizure of the signaling circuit contacts closed responsive to the operation of said relay to connect said potential source to a portion of said energizing circuit, an incoming signal comprising at least three predetermined frequencies received over said means, a group of relays operated responsive to said signal, circuit



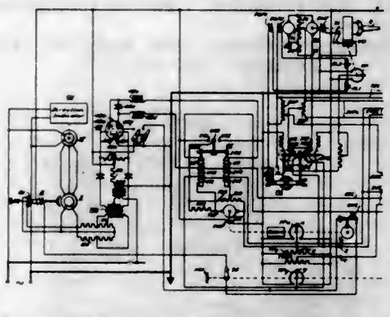
controlling means connected in said energizing circuit controlled by said relays to operate once for each cycle of the frequency applied to the associated relay to intermittently open and close a portion of said circuit, said circuit thereby closed at least once during said signal by said intermittently operated circuit controlling means to energize said tube, and a signal relay operated responsive to energization of the tube to transmit a calling signal.

2,591,938

GYROSCOPE CONTROL SYSTEM FOR DIRIGIBLE CRAFT

Ivar M. Holliday, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 11, 1947, Serial No. 791,106
11 Claims. (Cl. 244—77)



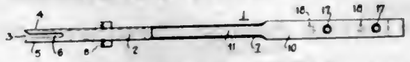
1. In a control for an aircraft having turn control means, roll control means and pitch control means, the combination of, a transient co-ordinator including an electromagnetically operated control member for producing control quantities for controlling all of said turn control means, said roll control means and said pitch control means; directional control means for producing an electrical directional control quantity indicative of the error in heading of said craft with respect to a predetermined heading, and circuit connections for applying said electrical directional control quantity to said electromagnetically operated control member of said transient co-ordinator to effect operation of said control member.

2,591,939

CARPET TUFTING AND PILE CUTTING DEVICE

Torleif K. Holmen, Brooklyn, N. Y., assignor to Rugcrofters, Inc., New York, N. Y., a corporation of New York

Application October 12, 1950, Serial No. 189,719
5 Claims. (Cl. 112—79)



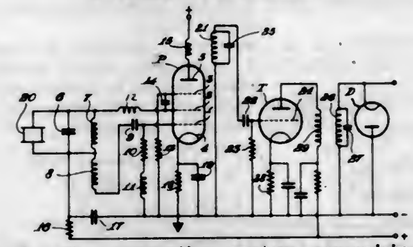
1. In combination a stepper and cutter for producing a tufted and pile cut fabric, said stepper comprising a flattened, tubular sheath, longitudinally slotted at one end to provide opposed prongs, each of substantially U-shape in transverse section for reception of a stranded material to be tufted and cut, and a bar integral with and projecting from the opposite end of said sheath, said cutter comprising a bar having a terminal portion slidable within said sheath, said terminal portion including a beveled knife edge, adapted upon displacement thereof relative to said sheath, to sever stranded material held in said slot.

2,591,940

IMPULSE GENERATOR

Eduard Herman Hugenholtz, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application December 6, 1947, Serial No. 790,143
In the Netherlands September 16, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 16, 1966
6 Claims. (Cl. 250—36)



1. A pulse generating system comprising an electron discharge tube including a cathode, a control grid, a screen grid, a suppressor grid and an anode, a resonant circuit coupled between said screen grid and said cathode, a capacitance connected between said suppressor grid and said screen grid to maintain the suppressor and screen grid at the same alternating current potential; means to maintain the suppressor grid negatively biased with respect to said cathode, means to impress positive potentials on said anode and said screen grid having respective values at which a transitron effect is produced in said tube, means coupled to said resonant circuit to derive therefrom a periodic feedback voltage, and means to apply said feedback voltage to said control grid to render said tube periodically non-conductive to develop pulses at said anode at a rate determined by the frequency characteristic of said resonant circuit.

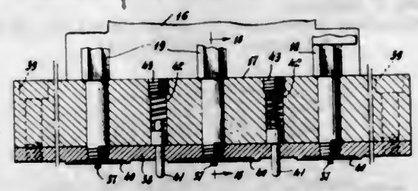
2,591,941

MULTICOLOR PRESS

Sydney M. Innerfield, Brooklyn, N. Y.

Application January 14, 1950, Serial No. 138,596
6 Claims. (Cl. 41—1)

1. A device for applying predetermined quantities of coating liquids to the face of a sheet of material comprising, a press frame, a fountain kettle mounted on said frame, a plurality of liquid containers mounted within said kettle, each of said containers being provided with a liquid conduit leading therefrom, a mold plate provided with a plurality of depressions on one face thereof, material supporting means secured to said frame, press mechanism adapted to reciprocate said plate toward and away from contact with a sheet on said material support, said plate being provided with an aperture in com-



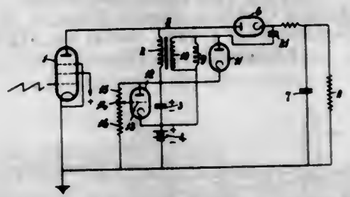
munication with each of said depressions, a valve carried by each of said apertures, each of said valves having an inlet end connected to one of said conduits and an outlet end in communication with one of said depressions, a valve actuating member provided at the outlet end of each of said valves adapted to be actuated by contact with said sheet material upon the downward movement of said plate to thereby discharge said liquid material upon said sheet material within the confines of the walls of each of said depressions.

2,591,942

REGULATED DIRECT VOLTAGE POWER SUPPLY

Peter Johannes Hubertus Janssen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

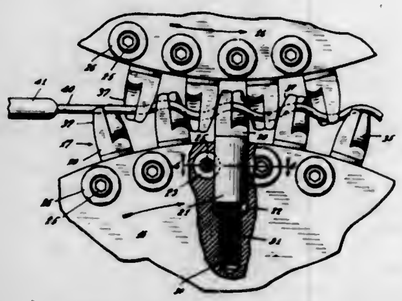
Application August 9, 1950, Serial No. 178,366
In the Netherlands September 8, 1949
5 Claims. (Cl. 321—2)



1. A voltage regulated direct current power source for supplying a load, comprising a first electron discharge tube having an input circuit and an output circuit, said output circuit comprising in series circuit arrangement a capacitive element and a direct-current potential source, a first inductive element, means periodically to vary the conduction of said first discharge tube to vary the current in said inductive element thereby to produce alternating voltage pulses across said first inductive element, means coupled to said first inductance element to rectify said alternating voltage pulses to produce an output voltage, means to apply said output voltage to said load, a series circuit comprising a second inductive element inductively coupled to said first inductive element and a rectifier element, means to couple said series circuit to said capacitive element to apply to said capacitive element a rectified voltage having an amplitude proportional to the amplitude of said alternating voltage pulses, a second electron discharge tube coupled in parallel with said capacitive element, and

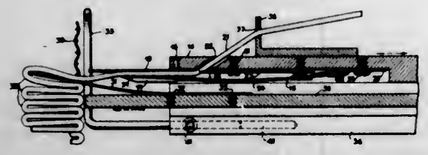
means responsive to variations in said output voltage to vary the conduction of said second discharge tube thereby to vary the voltage across said capacitive element in a sense diminishing said output voltage variations.

2,591,943
HELIX FORMER
Harry L. Kitselman, Muncie, Ind., assignor to Kitselman Brothers, Muncie, Ind., a corporation of Indiana
Application September 21, 1948, Serial No. 50,294
6 Claims. (Cl. 153—64)



1. In a machine for forming a wire into a helix by lateral deflection, two series of spaced teeth movable successively into meshing engagement from opposite sides of the wire to be deflected, each of said teeth having a pair of oppositely inclined, convex cylindrical, wire-deflecting surfaces which lie on opposite sides of a medial plane generally normal to the wire being formed and which are adapted to form contiguous fourths of a helix-turn.

2,591,944
CARPET TUFTING MACHINE
Richard C. Kline, Mount Kisco, N. Y.
Application July 1, 1950, Serial No. 171,709
2 Claims. (Cl. 112—79)

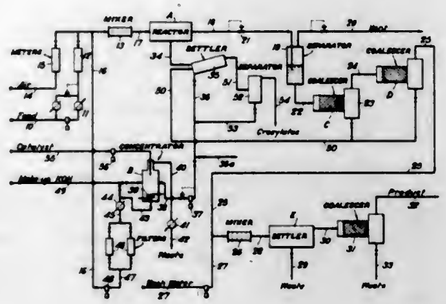


1. A needle assembly for yarn tufting machines comprising a thrust bar having an aperture therein, a needle having a hole therein and mounted on said thrust bar with one side adjacent said bar and with a free end extending beyond the end of said bar, said hole being aligned with said aperture and both being adapted to permit the passage of said yarn therethrough, a guide prong having a concave notched end, means mounting said guide prong on said thrust bar on the opposite side of said needle and with said notched end adjacent the free end of said needle, a tensioning prong, and means adjustably mounting said tensioning prong on said thrust bar between said needle and said guide prong and with an end thereof adjacent the hole in said needle, said adjustable mounting means permitting adjustment of the said tensioning prong with respect to said hole.

2,591,945
PROCESS FOR THE RECOVERY OF PROTEIN FROM WOOL AND OTHER KERATINOUS MATERIALS
Ernst C. Koerner, Woodridge, Hugo Ehrhardt, Nutley, Frederick R. Haigh, Passaic, and John Kirchhof, Clifton, N. J., assignors to Botany Mills, Inc., Passaic, N. J., a corporation of New Jersey
No Drawing. Application November 12, 1948, Serial No. 59,754
4 Claims. (Cl. 260—123.7)

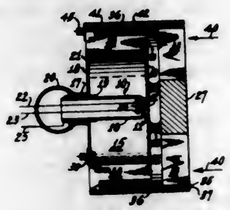
2. A process for the recovery of protein contained in keratinous material exemplified by wool waste, comprising the steps of softening the keratinous material by an acid bath, neutralizing said acid-treated keratinous material and subjecting said acid-treated keratinous material to a bath of adjusted pH at about 9 to 9.5, said bath consisting of from 12 to 18 parts of sodium sulfite (Na_2SO_3) calculated to 100 parts of wool, and from 5 to 7 parts of sodium sulfide (Na_2S) calculated to 100 parts of wool, maintaining said keratinous material in said reducing bath for a period of from 1 to 2 hours at a temperature from 120 to 150° F., and acidifying the thus treated material thereby precipitating the protein.

2,591,946
SWEETENING HIGH-BOILING PETROLEUM DISTILLATES
Jack H. Krause and Theodore B. Tom, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application January 31, 1950, Serial No. 141,391
10 Claims. (Cl. 196—29)



1. The process of removing mercaptans from a sour hydrocarbon fuel oil distillate without formation of excessive color therein, which comprises intimately contacting said distillate with about 1 to 15 percent by volume of an aqueous solution of KOH having a concentration of about 50 to 60 per cent, said solution containing about .004 to 0.1 per cent by weight of copper in the form of an active copper compound which is active as an oxidation catalyst, introducing a free oxygen containing gas in an amount about stoichiometrically equivalent to the amount of mercaptans present in said distillate into the mixture of distillate and KOH, maintaining the temperature of contacting at about 80 to 125° F. and separating spent KOH solution and associated reaction products from the treated oil.

2,591,947
HIGH-FREQUENCY APPARATUS
Russell R. Law, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1949, Serial No. 136,185
12 Claims. (Cl. 315—6)



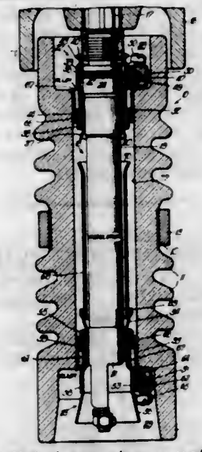
1. A high frequency apparatus comprising an evacuated envelope, a pair of electrodes each having a surface which is cooperatively spaced from a surface of the other and is located within the envelope, a respective means including a metallic surface external to said envelope for conducting heat from each electrode through the envelope to said metallic surface, a row of external cooling fins extending from each of said metallic surfaces, a hollow cylindrical member in electrical contact with the fins of each row, some of the inside surface of said member and inwardly facing edges of the fins of said rows defining interior surfaces of a cavity of a resonator.

2,591,948
AUTOMATIC LOCK SLIDER FOR SEPARABLE FASTENERS
Birdsall P. Lawson, Providence, R. I., assignor to Pilling Chain Company, Providence, R. I., a corporation of Rhode Island
Application March 20, 1950, Serial No. 150,776
9 Claims. (Cl. 24—205.14)



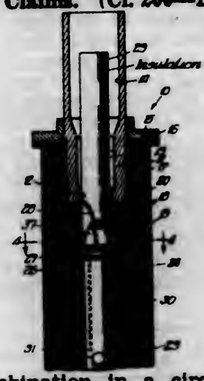
1. In a slide fastener, a pair of stringers having spaced fastener elements along their adjacent longitudinal edges, a channelled slider movable along said stringers to engage and disengage said fastener elements, said slider having at least one notch formed in one end wall thereof for receiving one of said fastener elements at any point in the travel of said slider, to lock the slider against movement relative to said stringers, a post in said slider for defining the channels thereof through which the stringers pass, and flat spring biasing means embraceably mounted on said post and continually bearing against the fastener elements of said stringers for urging said fastener elements passing therethrough toward said wall and into said notch, said means having sufficient resiliency to be displaceable against the biasing action thereof by the said fastener elements during movement of the slider in either direction.

2,591,949
FUSE HOUSING CONSTRUCTION
Sigurd I. Lindell, Chicago, and Carl E. Schultheiss, Libertyville, Ill., assignors to S & C Electric Company, Chicago, Ill., a corporation of Delaware
Application June 4, 1948, Serial No. 31,094
7 Claims. (Cl. 173—363)



1. In a circuit interrupter construction for receiving a bayonet type circuit interrupter assembly having upper and lower contacts near its ends, in combination, a cylindrical porcelain housing having a central longitudinal bore of uniform diameter, the end surfaces of said central bore being roughened, and upper and lower contact assemblies for receiving said upper and lower contacts, said assemblies being located at the ends of said central bore and secured therein by means solidified between them and said roughened end surfaces.

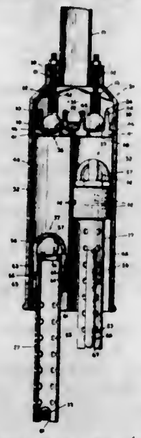
2,591,950
CIRCUIT INTERRUPTER
Sigurd I. Lindell, Chicago, Ill., assignor to S & C Electric Company, Chicago, Ill., a corporation of Delaware
Application February 8, 1949, Serial No. 75,254
11 Claims. (Cl. 200—149)



3. For combination in a circuit interrupter having a first contact with an aperture providing an internal contact surface and insulating means providing a bore constituting an extension of said contact surface; a second contact rod-like in character having one end bifurcated to provide a pair of contact fingers biased outwardly for engaging said contact surface and movable through said bore to draw an arc

therein on separation from said first contact, said contact fingers together providing an annular end surface; and a trailer of insulating material movable with said second contact through said aperture into said bore whereby said arc is confined between the outer surface of said trailer and said bore, the end of said trailer adjacent said second contact being beveled on opposite sides so that the projections of the beveled surfaces intersect said annular end surface of said contact fingers to define segmental areas thereon to which the arc root on said second contact is confined thereby preventing it from moving to the inner or end edges of said contact fingers and concentration of the arc at a corner of either contact finger and consequent disintegration thereof due to the arc heat are avoided.

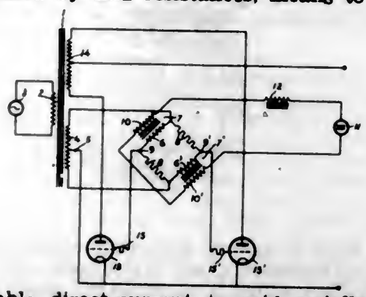
2,591,951
RECIPROCATING PUMP
Jesse R. Lowry, Des Moines, Iowa, assignor to Ideal Manufacturing Company, Oskaloosa, Iowa, a corporation of Iowa
Application January 11, 1946, Serial No. 640,556
3 Claims. (Cl. 103—229)



1. In a pump having a casing with an upright cylinder therein provided with an open lower end and an outlet portion at its upper end, a valve unit for controlling the flow of fluid through said outlet portion including a valve seat within said cylinder positioned inwardly of and against said outlet portion, a ball valve for said seat located in said outlet portion, an upright annular projection on said seat in a concentrically spaced relation with the fluid opening in said seat, a cage member for said ball valve projected upwardly through said outlet portion and having its lower end positioned within the confines of said annular projection, and means adjustably supported in a side wall of said casing and engageable with said cage member to hold the cage member against said valve seat.

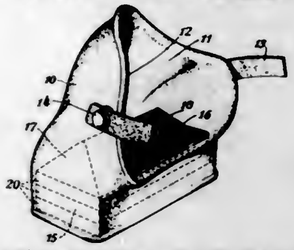
2,591,952
PHASE-SHIFT CIRCUIT FOR GRID-CONTROLLED GAS DISCHARGE TUBES
John Harold Lucas, Salfords, near Redhill, England, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application March 30, 1950, Serial No. 152,829
In Great Britain May 20, 1949
2 Claims. (Cl. 315—194)

1. Phase-shifting apparatus for the control of two grid-controlled discharge tubes connected in a two phase circuit to an alternating current supply, said apparatus comprising a pair of saturable reactors having a direct-current winding, the direct-current windings of said reactors being connected in series, a pair of resistances, a four arm bridge network, one pair of opposing arms of said network being constituted by said reactors, the other pair of opposing arms being constituted by said resistances, means to apply



a variable direct-current to said serially connected windings, said windings being connected serially in a direction at which the alternating currents induced therein by said reactors are substantially balanced out, means connecting one pair of vertices of said bridge network to said alternating-current supply, and means connected to the other pair of vertices to the control grids of said tubes.

2,591,953
FACE MASK FOR PROTECTION AGAINST DUST AND THE LIKE
Thomas Traill MacLean, London, England, assignor to Anglo-Iranian Oil Company Limited, London, England, a British joint-stock corporation
Application March 23, 1949, Serial No. 82,933
In Great Britain April 16, 1948
4 Claims. (Cl. 128—146)

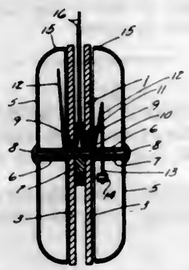


1. A face mask for protection against dust or other finely divided solid particles, which comprises a face-piece adapted to cover the nose and mouth and formed at its lowermost point with an aperture in which are located a plurality of inverted V-section screens nested one within the other, said screens being in the form of triangular prisms having an open base and inwardly sloping ends, whereby when air having solid particles suspended therein is drawn into the mask by inhalation, said solid particles are held back by said screens.

2,591,954
SPINNING SOUNDING TOY
Arild C. Madsen, Aberdeen, S. Dak.
Application April 30, 1951, Serial No. 223,737
3 Claims. (Cl. 46—61)

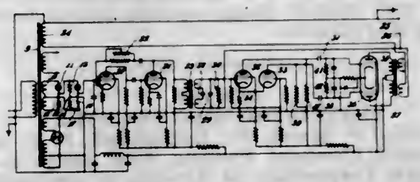
1. In a device of the class described, a winding spool including a winding drum and laterally-

spaced radially-extended flanges, said winding drum being provided with a segmental notch and one of said flanges being provided with an aperture the axis of which intersects said notch at its circumferential center adjacent to the axis of said spool and parallel thereto, a cup-shaped gong, means mounting said gong in laterally-spaced relation to one of said flanges and concentric therewith, a striker for said gong, said striker including a shaft portion extending through the aperture in said flange, a crank portion projecting radially-outwardly within said



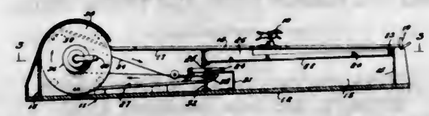
notch, and an angular portion in said gong element terminating in a striker head, and a flexible element secured to the radially-projected end of said crank portion and adapted to be wound on said spool whereby to position said crank portion in engagement with one side of said notch, rapid unwinding of the flexible member from said spool causing swinging movements of said crank portion toward engagement with the opposite side of said notch, said swinging movement causing said striking head to impinge said gong.

2,591,955
CIRCUIT ARRANGEMENT FOR THE STABILIZATION OF ALTERNATING CURRENT VOLTAGES
Gerrit Mak, Sydney, New South Wales, Australia, and Andre Willem Storm, Eindhoven, Netherlands, assignors to Hartford National Bank & Trust Company, Hartford, Conn., as trustee
Application May 22, 1948, Serial No. 28,578
In Australia December 19, 1944
4 Claims. (Cl. 323—23)



4. Apparatus for stabilizing the amplitude, wave form and phase characteristic of an alternating voltage supply coupled to a load with respect to the corresponding characteristic of a reference voltage source, said apparatus comprising an amplifier having input and output circuits, the output circuit being interposed between said supply and said load, a pair of electron discharge tubes each including a cathode, a control electrode and an output electrode, a common impedance interconnecting the output electrodes of said tubes, means to apply the voltage of said supply to the control electrode of one of said tubes, means to apply the voltage of said source to the control electrode of the other of said tubes in phase opposition to said supply voltage, means to apply the voltage developed across said common impedance across the input circuit of said amplifier, and a negative feedback network coupling the output circuit of said amplifier to the input circuit thereof and having a feedback factor at which the gain of said amplifier is maintained at unity.

2,591,956
BALL-ACTUATED RACING GAME DEVICE
William A. Malkan, Oakwood Heights, N. Y.
Application May 24, 1947, Serial No. 750,182
5 Claims. (Cl. 273—86)



1. In a game device, a plurality of inclined guide tracks adapted for receiving racing elements therein and for receiving rollable members for propelling said racing elements by striking engagement therewith, a rotary conveyor located adjacent each guide track and having pockets for receiving and elevating the rollable members and for feeding the same into the guide tracks at the rear of the racing elements, a base disposed below said guide tracks and having discharge outlets corresponding in number to said guide tracks, a rotary member movable over said base for indiscriminately directing the rollable members into said discharge outlets independently of the skill of the players, guideways disposed adjacent to said guide tracks for receiving said rollable members after said members strike the racing elements and for directing the rollable members to said base, and inclined guide chutes extending from said rotary member to said rotary conveyors for receiving the rollable members from said discharge outlets and for directing the rollable members to the conveyors respectively.

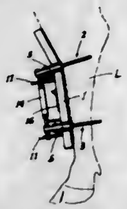
2,591,957
BALL-ACTUATED RACING GAME DEVICE
William A. Malkan, New York, N. Y.
Application July 10, 1948, Serial No. 38,107
4 Claims. (Cl. 273—86)



1. In a game device, a plurality of inclined guide tracks adapted to receive racing elements and rollable members for propelling said racing elements by striking engagement of the rollable members therewith, inclined guide chutes located below said guide tracks and adapted to receive the rollable members after striking the racing elements, inclined return chutes located below said guide tracks and sloping toward said guide chutes for returning the rollable members received therein to said guide chutes respectively, rotatable conveyors arranged alongside of said guide tracks respectively and having side opening pockets for receiving the rollable members from the guide chutes and for elevating and directing the rollable members into said return chutes and guide tracks, certain of the pockets of each conveyor each having a front wall canted from the side opening in a direction opposite to the direction of rotation of the conveyor and an upper wall sloping from the side opening toward the periphery of the conveyor when the pocket

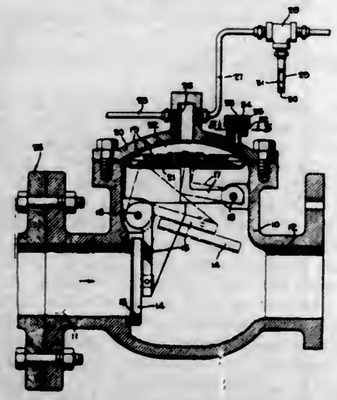
is in its lowest position whereby the rollable members received in the pockets from the guide chutes will roll from said pockets onto said guide tracks at the rear of the racing elements when the pockets are rotated to a position above said guide tracks, and certain of the pockets of each conveyor each having a rear wall canted from the side opening in a direction corresponding to the direction of rotation of the conveyor when the pocket is in its lowest position whereby rollable members received in said last named pockets from the guide chutes will roll from said pockets onto said return chutes when the pockets are rotated to a position above said return chutes.

2,591,958
ANTIKICKING DEVICE FOR COWS
Ernest L. McClees, Stockton, Calif.
Application February 11, 1950, Serial No. 143,654
6 Claims. (Cl. 119—127)



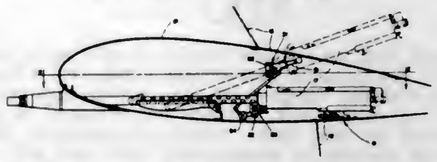
1. An anti-kicking device for cows, comprising an upstanding bar adapted to engage the rear leg of a cow from above to below the knee, a pair of vertically spaced jaw units mounted in connection with the bar and projecting rearward for leg engagement above and below the knee, a single control means between the bar and both jaw units and including a spring tending to cause the jaws to close, and a manually releasable latch between the bar and said means to hold the jaws open and the spring loaded.

2,591,959
QUICK OPENING VALVE
Fred W. McRae, Los Angeles, Calif.
Application July 5, 1949, Serial No. 103,138
2 Claims. (Cl. 169—20)



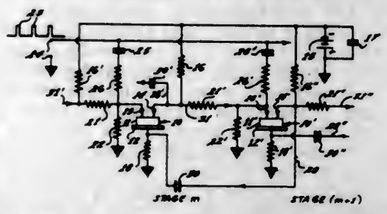
1. A quick opening valve comprising a body having an inlet and an outlet adapted to be connected in a conduit, a valve seat therein arranged transversely to the line of flow between the inlet and outlet, a valve closure swingably mounted on the interior of the body adapted to seat upon the valve seat, a shoulder on the closure arranged at approximately right angles to the plane of the closure, a latch engageable with the closure pivotally mounted within the body for swinging movement about an axis parallel to the axis of swing of the closure but spaced therefrom, a diaphragm in the body engageable with the latch when depressed to cause the latch to hold the closure in seated position against its seat, means for conducting fluid pressure to the upper side of the diaphragm to hold the diaphragm depressed, and means for releasing pressure on the upper side of the diaphragm upon the occurrence of a certain event to allow the latch to rise and permit the closure to open.

2,591,960
AIRCRAFT GUN MOUNT
Sheldon M. Miller, Lakewood, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 4, 1945, Serial No. 586,507
3 Claims. (Cl. 89—37.5)



1. In combination with a gun and support therefor, a first gun mount on said support and a first gun carried means engageable with said mount for support thereby, said means providing for tilting of the gun about a transverse horizontal axis, a second gun mount on said support spaced longitudinally from the first mount, a second gun carried means engageable with said second mount for support thereby, said first and second means being disengageable simultaneously from said mounts by and upon bodily linear movement of the gun in a longitudinal direction, means associated with the second means and second mount for adjusting the gun about said transverse horizontal axis and for adjusting the gun about a vertical axis at the first gun mount, and an upright retractable pin for hinging the first mount and first gun carried means for such adjustment about a vertical axis and holding both said gun carried means against disengagement from said mounts.

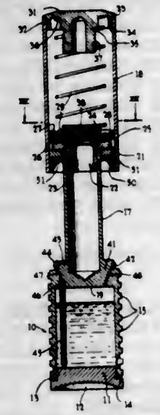
2,591,961
TRANSISTOR RING COUNTER
Raymond P. Moore, Jr., Haddonfield, N. J., and Everett Eberhard, Phoenix, Ariz., assignors to Radio Corporation of America, a corporation of Delaware
Application November 28, 1950, Serial No. 197,986
12 Claims. (Cl. 171—97)



1. A ring counter comprising a plurality of counter stages connected in a closed loop, each of said stages having a non-indicating, a primed

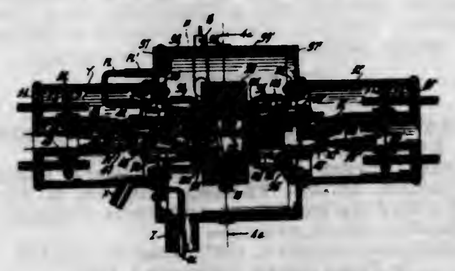
and an indicating condition and comprising a semi-conducting body, a base electrode, an emitter electrode and a collector electrode in contact with said body, an impedance element connected between each of said base electrodes and a point of substantially fixed potential, means for applying operating voltages to said electrodes, means for applying trigger pulses simultaneously between two electrodes of each stage, transfer means connected between each stage and a preceding stage for triggering a preceding stage into its non-indicating condition when a succeeding stage is triggered into its indicating condition by one of said trigger pulses, and means connected between each stage and a succeeding stage for transferring a succeeding stage into its primed condition when the preceding stage connected thereto is triggered by one of said trigger pulses into its indicating condition.

2,591,962
POCKET ATOMIZER
Benjamin Nachbar, Hewlett, N. Y.
Application November 25, 1949, Serial No. 129,234
1 Claim. (Cl. 299—88)



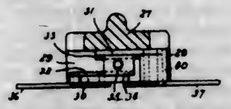
An atomizer comprising a reservoir chamber for the liquid to be atomized and sprayed, a reciprocating piston type air compressor axially spaced away from and in substantially axial alignment with said chamber, and integral with said chamber and as a substantially axial extension of its inner end, a hollow piston rod supporting the piston in said compressor and having its hollow interior communicating with the interior of the air compression cylinder of the compressor and out of communication with the interior of the reservoir chamber, an open-ended, air jet duct bored through the area about the junction of the reservoir chamber and the piston rod communicating from the hollow interior of the latter to a point on the outside of the atomizer, and an open-ended, liquid aspiration suction conduit communicating from a point below the liquid level of the reservoir to a liquid discharge orifice on the outside of the atomizer and positioned relative to the outlet of the air jet duct so that the air stream ejected from the latter can blow across the liquid discharge orifice in a direction and at a velocity adequate to aspirate liquid from the reservoir, a vacuum prevention vent bored into the liquid reservoir chamber and communicating from its interior to a point on the outside of the atomizer away from the liquid discharge orifice, the compressor cylinder and reservoir being rotatable relative to one another about a common axis and there being internal threads within the hollow upper end of the piston rod and an exteriorly threaded boss extending from the cylinder head toward the piston and of such diameter that its threads can intermesh with said internal threads when the compressor and reservoir are in closed position, whereby the latter two can be rotated relative to one another to have the two sets of threads engage and then to screw them together sufficiently for the sealing gasket to close securely tightly over the discharge orifice and the exterior end of the vacuum prevention vent.

2,591,963
ELECTRON DISCHARGE DEVICE AND CIRCUIT
Leon S. Nergaard, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 17, 1948, Serial No. 33,651
15 Claims. (Cl. 315—5)



1. An electron discharge device having two elongated telescoped coaxial cylindrical electrodes and a high frequency circuit for said device including conducting means forming continuations of said cylindrical electrodes extending from both ends of each electrode and turning outwardly and back to meet each other, the conducting means extending from the ends of the inner cylindrical electrode surrounding and spaced from the conducting means extending from the ends of the outer cylindrical electrode, whereby said continuations form with said electrodes a high frequency cavity resonator, the electrical length of said resonator being substantially N times the wavelength at which the device is to operate where N is a whole number.

2,591,964
FORMING MEANS FOR PROFILE GRINDING WHEELS
Charles Benjamin Albert Porter, Preston, Yeovil, England, assignor to Harold Stuart Hallewell, Hayes, Middlesex, England
Application May 2, 1949, Serial No. 90,952
In Great Britain May 3, 1948
4 Claims. (Cl. 125—11)



1. Apparatus for dressing a grinding wheel and including a base, a template-holder on said base, a pantograph mechanism comprising a parallelogram of arms pivotally mounted on said base for movement parallel to the template-containing plane of the template-holder, a template-follower member pivotally mounted on a first of said arms for rocking with respect to said first arm about an axis perpendicular to

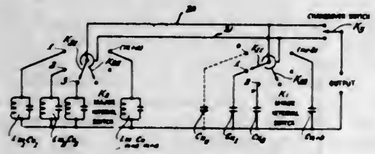
said plane, a dressing-tool holder pivotally mounted on a second of said arms for rocking with respect to said second arm about an axis perpendicular to said plane, a dressing-tool having a shank and a tapered nose with a radiused tip, said dressing-tool being mounted on said holder with its shank substantially perpendicular to the holder axis, and means interconnecting the template-follower member and the holder for constraining them to rock in unison, the template-follower member having a detachable cylindrical tip coaxial with the template-follower pivot, and a guard element constituted by two wings having respectively two working edges lying in the template-containing plane of the template holder substantially tangentially to said tip and inclined to each other at a fixed apex angle, and said wings being mounted on the template-follower member by means enabling them both to be bodily displaced towards and away from each other in a direction perpendicular to the rocking axis of the template-follower member and perpendicular to a line bisecting the apex angle and also to be locked in various positions of adjustment.

2,591,965

MULTIBAND RESONANT SYSTEM WHEREIN EACH BAND IS STEP-WISE TUNABLE

Claude Langdon Richards and Edward James Glaisher, London, England, assignors to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application August 5, 1947, Serial No. 766,172
In Great Britain February 1, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires February 1, 1965
5 Claims. (Cl. 250—40)



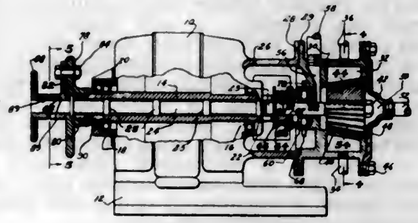
1. A frequency-determining adjustable resonant system comprising a series of resonant circuits each tuned to a predetermined frequency, the frequencies of said circuits being uniformly spaced, a first multi-contact switch having a movable arm for successively engaging each of said contacts, each of said contacts in said first switch being connected to one end of a respective circuit, the other ends of said circuits being interconnected, a series of reactance elements having mutually different values, a second multi-contact switch having a movable arm for successively engaging each of said contacts, each of said contacts in said second switch being connected to one end of a respective element, the other ends of said elements being interconnected, one of said first and second switches further including an auxiliary movable arm coupled for simultaneous movement with the movable arm thereof and spaced a predetermined number of contacts from said movable arm, a pair of output terminals the first of which is connected to both the interconnection of said circuits and the interconnection of said elements, and means to connect selectively the second of said terminals in one position to the movable arms of both said first and second switches and in another position to the auxiliary movable arm of said one of said switches.

2,591,966

DRIVE SHAFT MEANS FOR COLLOID MILLS

George H. Rider, Valley Stream, N. Y.

Application July 31, 1948, Serial No. 41,832
2 Claims. (Cl. 241—256)



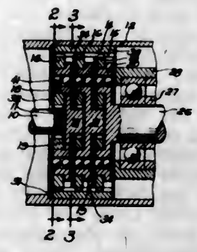
1. In an integral motor driven colloid mill, a motor, a housing for the motor, a colloid mill supported by the motor housing, bearings mounted in the motor housing at each end thereof, a hollow motor shaft mounted for rotation in the bearings, and extending outwardly of the motor shaft, a second shaft for the colloid mill and arranged in the hollow shaft and keyed thereto to permit longitudinal or axial movement of the second shaft with respect to said hollow shaft, a support on the motor housing at one end thereof and extending beyond one of the bearings, said second shaft extending beyond the motor housing into the support, said colloid mill mounted on said support and a rotor in the mill and secured to the end of the second shaft extending beyond the motor housing into the support and driven by said second shaft.

2,591,967

ANTIFRICTION DEVICE FOR PLANETARY TRANSMISSIONS

Holland F. Ridgely, Grand Island, N. Y., and Floyd A. Crocker, Jenison, Mich., assignors to Lear, Incorporated, Grand Rapids, Mich., a corporation of Illinois

Application April 26, 1951, Serial No. 223,085
12 Claims. (Cl. 74—801)



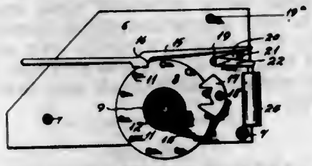
1. A planetary gear transmission comprising a plurality of sets of planetary gears, a carrier for each set of planetary gears; sun gears; a ring gear for engagement with said planetary gears; each said carrier having a plurality of studs upon each of which a planetary gear is rotatably carried; an input shaft secured to the first sun gear; an output shaft secured to the last carrier; and anti-friction means comprising scuff plates adjacent each stage of reduction and a plurality of balls positioned between each pair of adjacent plates; said studs having axial apertures therein for rotatably supporting said balls.

2,591,968

COIN-CONTROLLED APPARATUS

Alfred George Rowe, Tasmania, Australia

Application September 9, 1948, Serial No. 48,437
In Australia July 18, 1947
3 Claims. (Cl. 194—1)



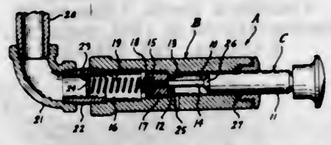
1. In mechanism of the kind described for use with dispensing apparatus, a rotatably mounted selector wheel carrying an arcuate series of spaced pegs, a spring for rotating the wheel in one direction, a slide rod disposed approximately tangentially to a portion of said wheel and reciprocable in a lengthwise direction, a detent carried by said slide rod normally in the path of movement of said pegs and adapted to engage the pegs of said wheel to rotate said wheel an increment in a direction against the action of said spring each time said slide rod is reciprocated, an escapement engaging the pegs of said wheel to hold the wheel against return rotation by said spring, a rock-shaft connected to said dispensing mechanism and adapted to be rocked each time a unit is dispensed, a lifter plate which is raised by the rocking of said rock-shaft, means actuated by the raising of said lifter plate to release the escapement to permit the return rotation of the wheel by said spring the distance of one peg, means also actuated by the raising of said lifter plate to raise said slide rod to move said detent out of the path of said pegs and a dash pot for retaining said slide rod in raised position during said return rotation of the wheel.

2,591,969

LIQUID SOAP DISPENSER

Michael Sawchuk, Toronto, Ontario, Canada, assignor to Dustbane Mfg. Company Limited, Ottawa, Ontario, Canada

Application January 15, 1951, Serial No. 205,988
2 Claims. (Cl. 103—166.5)



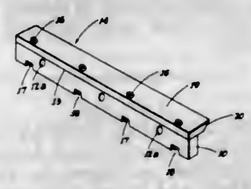
1. A liquid soap dispenser comprising: a casing having a receiving chamber, a transfer chamber and a discharge chamber, said receiving chamber being connectable with a liquid soap supply, an orificed partition between said transfer chamber and said discharge chamber, said casing having a bore therein, the inner part of which forms part of said discharge chamber, a plunger reciprocable in said bore and having a piston end for operation within said discharge chamber, a stem projecting from the piston end of said plunger and designed to traverse the orifice in said partition, said stem being designed slightly to clear the periphery of said orifice to form a restricted passage for passage of soap between the transfer chamber and said discharge chamber, a piston carried on the end of said stem and normally housed within said transfer chamber, said piston being of a diameter to clear the walls of said transfer chamber, spring means within the casing normally maintaining said piston within the transfer chamber and retaining said plunger clear of said discharge chamber, the end of said piston in normal position abutting said partition and closing communication between said transfer chamber and discharge chamber, said casing having a soap discharge passage opening on the face of said casing and communicating with said discharge chamber, said plunger acting to discharge soap from the discharge chamber through said discharge passageway upon depression of the plunger, said piston acting to transfer soap from the receiving chamber to the transfer chamber upon depression of the plunger and to transfer soap from the transfer chamber to the discharge chamber upon the release of said plunger.

2,591,970

HAY FEED CUTOFF FOR BALING MACHINES

Arthur J. Seegers and Lawrence G. Seegers, French Camp, Calif., assignors of one-half to Jesse A. Priest, French Camp, Calif.

Application April 6, 1949, Serial No. 85,844
1 Claim. (Cl. 100—25)



A knife unit for the plunger of a hay baler comprising a rigid mounting bar adapted to be disposed against the forward face of the plunger, a knife bar resting on the top edge of the mounting bar and projecting ahead of the same with its back edge flush with the back side of the mounting bar, bolts extending vertically through the bars, said bolts having flat screw heads turnably countersunk in the knife bar, and nuts on the lower end of the bolts seated in non-turning relation in transverse notches in the lower edge of the mounting bar, the latter having transverse bolt holes intermediate the vertical bolts to receive bolts for securing the mounting bar on the plunger in position so that the top of the knife bar is flush with the top of the plunger.

2,591,971

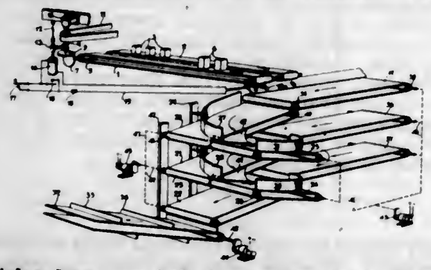
CONVEYER BELT APPARATUS

Thomas Samuel Skillman, Mosman, near Sydney, New South Wales, Australia, assignor to Punch Engineering Pty. Limited, Cammeray, near Sydney, New South Wales, Australia, a company incorporated of New South Wales, Australia

Application March 2, 1948, Serial No. 12,527
In Australia March 5, 1947
8 Claims. (Cl. 198—84)

3. Apparatus for automatically conveying articles from one level to another, comprising: two laterally adjacent conveyor belt systems, the conveyor belts of one system sloping in an opposite direction to the conveyor belts of the other system, each system comprising a plurality of vertically spaced and aligned, roll-supported, endless conveyor belts, so disposed that a plurality of the belts of one of said systems extend successively between the lower and upper ends respectively of vertically adjacent belts of the other of said systems and the carrying part of

said last-mentioned plurality of belts meets the carrying part of each of said adjacent belts and so disposed that the higher end of the top belt of one of said systems is at said one level and the lower end of the lowermost belt of one of said systems is at said other level; stationary guide means disposed adjacent the meeting points of said carrying parts for transferring said



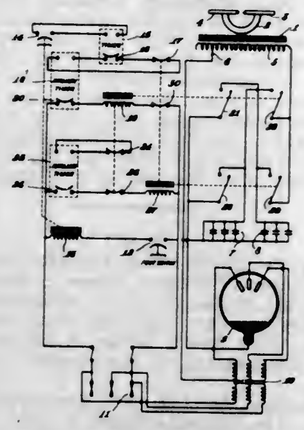
articles from one belt to another when driven; delivery means for delivering said articles onto one belt of said systems, and receiving means for receiving said articles from another belt of said systems; and means for concurrently so driving said belts as automatically to convey said articles over said belts from said delivery to said receiving means.

2,591,972

ELECTRIC WELDING SUPPLY CIRCUIT

Charles E. Slade, Wembley, and Arthur Kershaw, London, England, assignors to The Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application January 17, 1948, Serial No. 2,835
In Great Britain December 6, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires December 6, 1964
2 Claims. (Cl. 219—4)



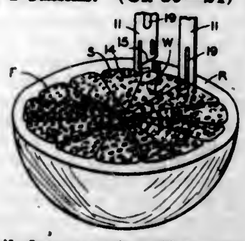
1. An electric welding system for producing a welding voltage comprising a welding transformer having a primary winding and a secondary winding for providing the welding voltage, first and second capacitive elements, a direct voltage source for charging said elements, a first switching member arranged upon actuation to connect simultaneously said first element across said source and said second element across said primary winding, a second switching member arranged upon actuation to connect simultaneously said first element across said primary winding and said second element across said source, first and second electromagnetic relays, first and second normally closed switches respectively connected in series with said first and second relays, said first relay being arranged upon energization to actuate said first switching member and to open said second switch, said second relay being arranged upon energization to actuate said second switching member and to open said first switch, whereby only one of said members may be actuated at any one time, and means to energize successively said first and second relays.

2,591,973

CITRUS FRUIT UTENSIL

Joseph W. Smith, Cambridge, Mass.

Application June 20, 1946, Serial No. 678,058
4 Claims. (Cl. 30—24)



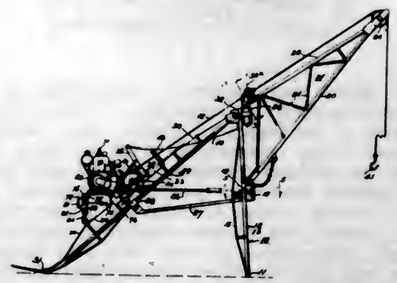
1. A utensil for severing the non-edible partitions and core from a citrus fruit comprising a relatively long resilient blade having at one end thereof two cutting edges spaced one ahead of the other and lying, respectively, in two different planes which extend transversely of the longitudinal axis of the blade, and a guiding edge on said blade connecting said cutting edges and extending substantially parallel to said axis whereby the blade may be inserted into the top edge of a half of a citrus fruit and pushed downwardly and inwardly along the inner surface of the rind of the fruit so that said cutting edges sever the partition and core from the rind and partially sever the edible pulp from the rind as said guiding edge directs the movement of the blade.

2,591,974

TRAVERSING HOIST

Charles R. Smith, Chicago, Ill.

Application August 20, 1948, Serial No. 45,345
4 Claims. (Cl. 212—61)



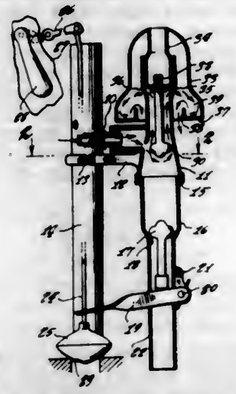
1. In a traversing hoist, a mast having a stance at an angle to the perpendicular, a support for said mast including a truss bar and a bar connecting said mast and truss bar, a boom mounted to said mast to swing thereabout, sheave mechanism at one end of said boom, a winch carried by said support, juxtaposed sheaves carried by said boom adjacent said mast, and a cable about said winch passing between said sheaves and over said sheave mechanism.

2,591,975

TOILET FLUSH TANK REFILL DEVICE

Orion Emory Southwick, Port Chicago, Calif.

Application September 9, 1950, Serial No. 184,078
5 Claims. (Cl. 4—41)



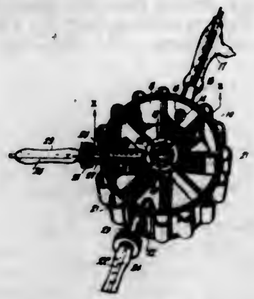
1. A refill device for toilet flush tanks comprising an upper casing part, a water inlet extending laterally therefrom, a valve element upward in the said casing part, float means connected to the valve element to operate the same, a depending lower casing part secured to the lower end of the upper casing part, a valve element operable in said depending casing part, a flush tank valve operating arm means extendable from the lower casing part and adapted to engage with the flush tank valve to open the valve element initially in the depending casing part.

2,591,976

ELECTRON DISCHARGE DEVICE UTILIZING CAVITY RESONATORS

John Maxwell Stinchfield, Monmouth Junction, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application March 22, 1945, Serial No. 584,137
6 Claims. (Cl. 315—40)



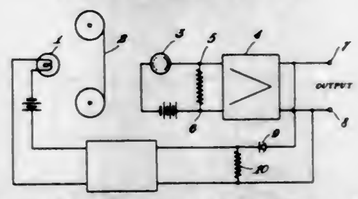
4. An electron discharge device including a drum-shaped envelope of conducting material, a cathode positioned at the axis of said drum-shaped envelope, a plurality of adjacent U-shaped sheet metal elements, the closed ends of which contact the inner wall of the said drum-shaped envelope and the legs of which extend radially toward said cathode, the inner ends of said legs defining a chamber of cylindrical shape and providing anode elements, the legs of adjacent U-shaped elements being in contact along their length from the inner surface of said drum-shaped envelope to the ends of said legs.

2,591,977

PHOTOELECTRIC DEVICE FOR CONVERTING VARIATIONS IN LIGHT INTENSITY INTO VARIATIONS IN CURRENT

Maximiliaan Julius Otto Strutt and Aldert van der Ziel, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 2, 1946, Serial No. 680,963
In the Netherlands April 6, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires April 6, 1963
3 Claims. (Cl. 250—219)



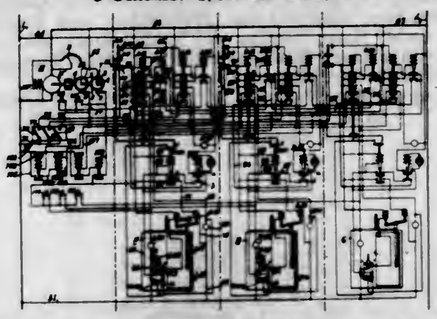
1. In combination, a source of light, a light-sensitive electric device excited by the light of said source, sound track means interposed between said source and said device for varying the intensity of said light whereby said device produces corresponding current variations, means to amplify said current variations, and compressor means coupled to the output of said amplifying means and responsive thereto for compressing the current variations in said device to cause the ratio existing between the current variations in said device and the average amplitude of said sound track to be greater for relatively small average amplitudes than for large average amplitudes.

2,591,978

DISPATCHER-CONTROLLED ELEVATOR SYSTEM

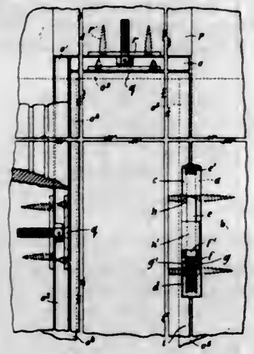
John Suozzo, North Arlington, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 20, 1950, Serial No. 201,815
8 Claims. (Cl. 187—29)



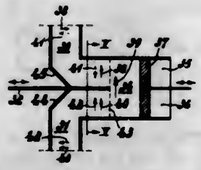
1. In an elevator system, for a structure having a plurality of floors including a dispatching floor, an elevator car for serving the floors of the structure, first means for selecting the elevator car to leave the dispatching floor, a door operable for controlling the passage between the elevator car and the dispatching floor when the elevator car is at the dispatching floor, second means responsive to arrival of the elevator car at the dispatching floor after selection of the elevator car to leave the dispatching floor for opening said door, and third means effective upon arrival of the elevator car at the dispatching floor prior to its selection to leave the dispatching floor for maintaining the door closed.

2,591,979
MOUNTING FOR HINGED DOORS AND THE LIKE
James Wolstenholme Turley, Manchester, England
Application December 29, 1945, Serial No. 638,095
In Great Britain January 1, 1945
3 Claims. (Cl. 20—16)



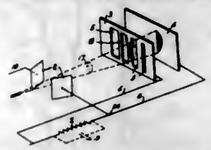
1. An adjustable mounting of a hinged door comprising a fixed frame, a door hung in said frame by hinges, each hinge having complementary door and frame parts provided with complementary vertically alined lugs, the lugs of said parts being spaced apart, one of said lugs being fixed to said door and a second said lug being fixed to said frame, a pin passing through all of said lugs, a sleeve threaded into a lug and surrounding a portion of said pin, a head on said sleeve located in said space, one of said two lugs being supported on said head, whereby rotating said head relatively adjusts said parts.

2,591,980
ADJUSTABLE IMPEDANCE TRANSFORMER
Johannes Marinus van Hofweegen and Kornelis Swier Knol, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application October 12, 1948, Serial No. 54,102
In the Netherlands October 14, 1947
3 Claims. (Cl. 178—44)



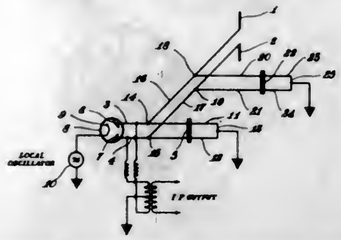
1. An arrangement for guiding ultra-high-frequency waves comprising first and second dielectric wave guides terminating in adjacent portions provided with a common electrically conductive wall, said wall being adjustable longitudinally with respect to the termination of said portions and independently of the remaining walls of said guides to define a coupling section between said guides, and a piston slidably disposed within said section to vary the effective dimensions of said section.

2,591,981
CIRCUIT ARRANGEMENT, INCLUDING A CATHODE-RAY TUBE COMPRISING CATHODE-RAY BEAM DEFLECTING MEANS
Adrianus Johannes Wilhelmus Marie van Overbeek, Zeger van Gelder, and Johan Lodewijk Hendrik Jonker, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 10, 1947, Serial No. 790,874
In the Netherlands October 23, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires October 23, 1966
11 Claims. (Cl. 315—21)



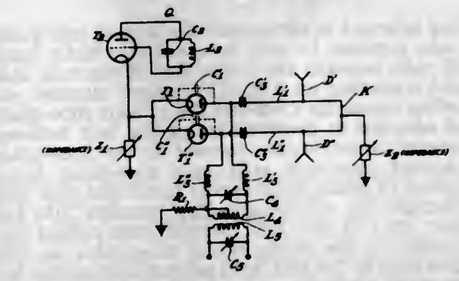
1. An electronic system comprising a cathode-ray tube provided with an electron beam source, means for deflecting said beam in a given plane, a first collecting electrode, a second collecting electrode interposed between said deflecting means and said first electrode and having spaced openings therein whose cross sectional dimensions relative to that of said beam effect distribution of beam current between said first and second electrodes at every position of said beam, a resistance, means to impress an accelerating potential on said second electrode and through said resistance on said first electrode, means coupling said first electrode to said deflecting means, and means to apply an external voltage impulse to said deflecting means to displace said beam.

2,591,982
SUPERHETERODYNE RECEIVER FOR VERY SHORT WAVES
Adelbert van Weel, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,200
In the Netherlands July 26, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 26, 1963
2 Claims. (Cl. 250—20)



1. A circuit arrangement for mixing a first wave and a second wave to produce an intermediate frequency wave, comprising a pair of mixing elements, means to generate said first wave and to apply said first wave to said mixing elements in inphase relationship, a first Lecher system having an open end thereof coupled to said mixing elements in push-pull relationship and having a closed end to produce on said first Lecher system a first voltage node of said first wave at said closed end of said first Lecher-system and a second voltage node of said first wave at a point on said first Lecher system intermediate to said closed end and said mixing elements, first bridge means positioned intermediate to the closed end of said first Lecher-system and said mixing elements to tune said first Lecher-system to the frequency of said second wave, an antenna system to receive said second wave, a transmission line coupled between said antenna system and said point on said first Lecher-system, a second Lecher system having an open end thereof coupled to said transmission line at a point thereon an odd multiple quarter wave length of said first wave from said point on said first Lecher-system and having a closed end to produce a third voltage node of said first wave at said point on said transmission line, and second bridge means to tune said second Lecher system to the frequency of said second wave.

2,591,983
MIXING CIRCUIT ARRANGEMENT
Adelbert van Weel, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application July 20, 1946, Serial No. 685,204
In the Netherlands November 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires November 12, 1963
8 Claims. (Cl. 250—20)



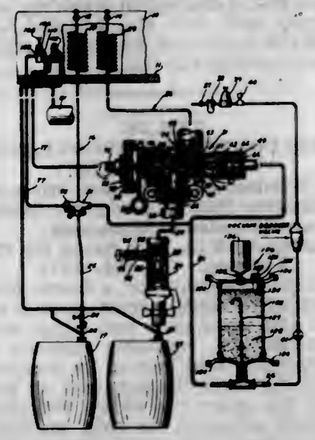
1. A circuit arrangement for mixing a first wave and a second wave to produce an intermediate frequency wave, comprising a pair of mixing elements each having input and cathode electrodes, a Lecher-system having an open end thereof coupled to the input electrodes of said mixing elements in push-pull relationship and having a closed end, means to generate said first wave including an electron discharge system having a cathode, means to couple together the cathodes of said mixing elements and the cathode of said discharge system to define a junction, means to apply said second wave to said Lecher-system, a first impedance network coupled between said junction and a point of constant potential, a second impedance network coupled between the closed end of said Lecher-system and said point of constant potential, the relative impedance values of said first and second impedance networks being adjustable to maximize the voltage produced across said mixing elements by said first wave, a network having an electrical center and coupled between the input electrodes of said mixing elements, and an impedance element connected between said electrical center and said point of constant potential.

2,591,984
HINGE
David H. Walsh, Albany, N. Y.
Application July 1, 1949, Serial No. 102,465
7 Claims. (Cl. 16—137)

1. In a hinge, the combination comprising a hinge butt, and an auxiliary hinge holding device adapted to be carried thereby, said butt and said device having spaced openings therethrough in registry with each other, whereby they both can be secured to a door frame or door by securing means, said device constituting a pair of interfitting elements, one of said elements having a head with a leg extending therefrom, said leg having a notch adjacent its free end and another notch adjacent said head; the other of said elements having a head with a leg extending therefrom, said leg having a projection adjacent its free end, said projection being adapted to engage the notch adjacent the head in said first element to hold said screws when replaced in said elements in inter-fitting position; and said projection also being adapted to engage said notch adjacent the end of said first named leg in said one element to hold the same in extended, interlocked position; whereby said device can be secured to said frame or door at opposite ends of said butt by said spaced openings provided in said elements therefor and by said securing means to maintain said hinge in its original position.



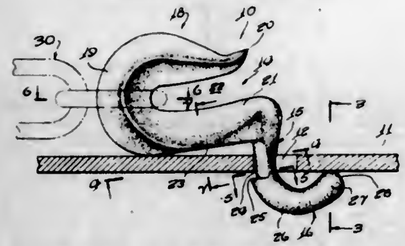
2,591,985
AUTOMATIC CLEANER SOLUTION SUPPLY FOR BEER DISTRIBUTING SYSTEMS
Frederick J. Warcup, Nyack, N. Y.
Application November 24, 1947, Serial No. 787,646
5 Claims. (Cl. 225—12)



1. A beer distributing system including a beer line leading to a faucet, a water supply line, a master valve operable in different positions to

connect the beer line selectively with the water supply line or a keg, operator-actuated control mechanism for shifting the position of the master valve, a tank for holding a charge of soluble cleaning material, a conduit through which the water supply line communicates with the tank at a level intermediate the upper and lower ends of the tank, an air chamber above the level at which said conduit opens into the tank, said air chamber being sealed at the top and being constructed and arranged to receive air compressed by the rising of water into the tank when the faucet is closed and water pressure is high in the water supply line, and said air chamber serving as a source of pressure for forcing cleaner concentate out of the tank and into the water supply line when the pressure in the water supply line drops in response to opening of the faucet.

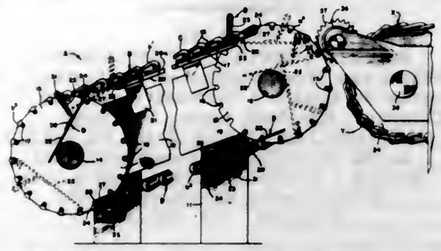
2,591,986
ONE-PIECE TIE DOWN DEVICE AND GRABHOOK
Harry Weiss and Frank Kammer, New York, N. Y.
Application February 23, 1951, Serial No. 212,432
3 Claims. (Cl. 24—230.5)



1. A device of the character described comprising a hook having a finger, a bent back portion from which the finger extends, and an arm extending from said bent back portion, said arm being adapted to contact one surface of an anchoring plate, a portion offset from the outer end of said arm and adapted to pass through an opening in said plate, and a curved back portion extending from said offset portion and having an outer end adapted to contact the opposite surface of said plate, said arm having a flat surface adjacent said plate, said offset portion being formed on one side with a depression providing a shoulder spaced from said arm and adapted to engage an edge of the opening in the plate to prevent said device from accidentally falling out.

2,591,987
ENDLESS CONVEYER HAVING RETRACTABLE FLIGHTS
Henry J. Werden, West St. Paul, Minn., assignor to Zinsmaster Baking Company, Minneapolis, Minn., a corporation of Minnesota
Application April 28, 1951, Serial No. 223,577
8 Claims. (Cl. 198—197)

1. In an inclined conveyor, a frame, an endless belt formed with grid-like cross-reaches and having upper and lower runs and upper and lower turns therebetween, revoluble supports on said frame supporting said belt at its marginal portions about the turns thereof, rails on the frame supporting the upper run of the belt along portions thereof adjacent its said marginal portions, a plurality of retractable flights located at intervals along the belt, each flight including an elongated shoe-plate within the loop of the belt having a marginally hooked portion longitudinally thereof caught about one of the belt's cross-reaches and hingedly connecting the shoe-plate thereto, the end portions of said shoe-plate being adapted to overreach said belt-supporting rails, the width of said shoe-plate being greater than the distance between adjacent cross-reaches of the belt, the marginally hooked portion of said shoe-plate being slit transversely thereof near its ends forming terminal keeper-tabs, said keeper-tabs being bent about the cross-reach to which the shoe-plate is hooked holding said shoe-plate hooked thereto, end thrust stop means on said cross-reach engaged by the hooked portion of the shoe-plate and depriving said shoe-plate of endwise movement on said cross-reach, cam means engageable by the down-swung shoe-plate at the lower turn of the belt, said cam means



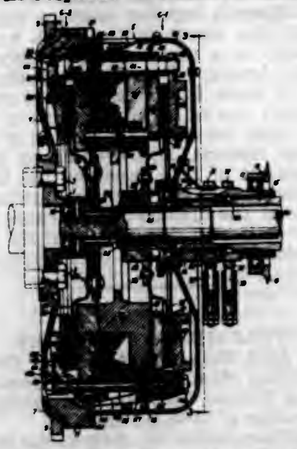
being adapted to swing said shoe-plate and guide it into position to bear substantially flatly upon said rails beneath the upper run of the belt, said flight including an article-engaging member extending upwardly from the top of said shoe-plate and adapted to project beyond the belt between adjacent cross-reaches thereof as the shoe-plate is guided onto said rails, said shoe-plate being adapted to swing downwardly from said rails and withdraw the article-engaging member into the upper turn of the belt, second cam means engageable by the down-swung shoe-plate at said upper turn of the belt, said second cam means being adapted to tilt and invert said flight inducing it to fall hingedly into position top side down against the inner side of the belt for return on the lower run thereof to said lower turn of the belt.

2,591,988
PRODUCTION OF TiO_2 PIGMENTS
Oswin B. Willcox, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 14, 1950, Serial No. 184,897
7 Claims. (Cl. 241—22)

1. A process for the preparation of an improved calcined white titanium pigment which comprises dry grinding said pigment in the presence of from .05 to 5%, based on the weight of the pigment, of an aerogel.

2,591,989
CENTRIFUGAL-ELECTRIC CLUTCH
Martin P. Winther, Gates Mills, Ohio, assignor to Martin P. Winther, as trustee
Application November 17, 1949, Serial No. 127,898
14 Claims. (Cl. 192—84)

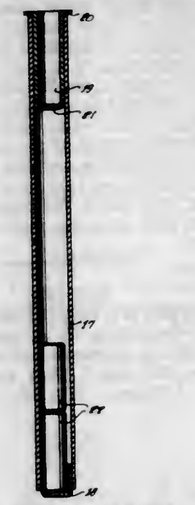
9. A clutch comprising a driver, first and second driven members, a magnetic field member rotary with the driver, first and second axially movable backing rings both rotary with the driver, means for moving the first backing ring from a first to a second position when the field coil is excited, means for moving the second backing ring from a first to a second position when the field coil is deexcited, first and second axially movable pressure rings rotary with the driver, a first driven disc rotary with the first driven member and having a floating location between said first backing and pressure rings, a second driven disc rotary with the second driven member and having a floating location between said second backing and pressure rings; a centrifugal mechanism responsive to rotation of the driver adapted to move the first and second pressure rings toward the first and second backing rings respectively in response to a predetermined speed; first stop means so arranged with respect to the first pressure and backing rings that when the field member is excited the first pressure ring in response to said centrifugal mech-



anism will clamp the first driven disc against the first backing ring in its second position, and when the field member is deexcited the first pressure ring will engage the first stop means and the first backing ring will move into its first position wherein the first driven disc is released; and second stop means so arranged with respect to the second pressure and backing rings that when the field member is deexcited the second pressure ring in response to said centrifugal mechanism will clamp the second driven disc against the second backing ring in its second position, and when the field member is excited the second backing ring will disengage the second stop means and move into its first position wherein the second driven disc is released.

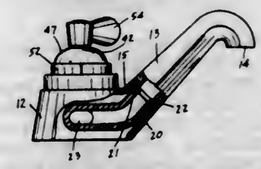
2,591,990
BEVERAGE CARBONATING DEVICE
George P. Wisdom, Exeter, Mo.
Application October 9, 1948, Serial No. 53,730
5 Claims. (Cl. 261—121)

1. A carbon dioxide gas generator adapted for insertion into a beverage bottle having a neck provided with a closure cap, said generator comprising an assembly of concentrically related tubes adapted to be situated in said bottle, the outer tube of said assembly extending axially from the bottom of said bottle into the neck thereof and defining an annular space between said outer tube and said bottle neck, an inner tube of said assembly being materially shorter than said outer tube and having a flange overreaching the upper end of said outer tube and spaced below said bottle cap to define a space between said cap and flange, the tubes of said assembly being relatively displaceable to admit into the outer tube of the assembly CO_2 gas producing pellets and means in said inner tube for diffusing said gas during its upward travel in said tube assembly preliminary to its passage through the spaces between said assembly and



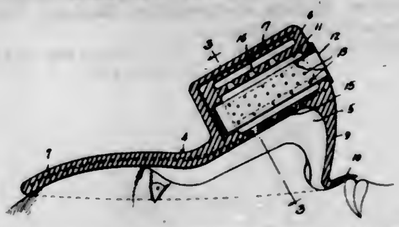
bottle cap and neck to carbonate the beverage in said bottle.

2,591,991
EXPOSED MIXING CHAMBER, MASK, RETAINER, AND VALVE CONTROL ASSEMBLY
Stephen A. Young, Delphi, Ind.
Application October 21, 1947, Serial No. 781,230
2 Claims. (Cl. 137—111)



1. In combination, a fluid control body, an inlet thereto, a control unit for said inlet, a rudimentary outlet member integral with said body and having a fluid passage thereto, a canopy seated on said body, a discharge spout member integral with said canopy having a fluid passage formed therein, and means for fastening said canopy to said body with the fluid passage in said rudimentary outlet member aligned with and in sealing engagement with the fluid passage in the discharge spout member of the canopy.

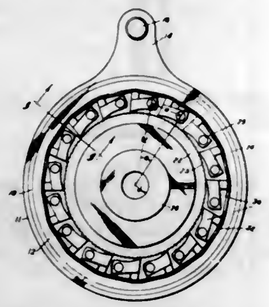
2,591,992
TREATMENT MASK
Calven Aerick, Los Angeles, Calif.
Application April 26, 1949, Serial No. 89,710
2 Claims. (Cl. 128—192)



1. A treatment mask comprising a body of material shaped at one end to conform to and bear

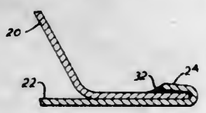
against the forehead and cheeks of the user in substantially sealed contactual relationship therewith, said body being shaped at its opposite end to provide a nose receiving cavity, a dome portion projecting from said body over the nose cavity and providing a space between said portion and the nose, a wall portion integral with said body at the end of said cavity to bear against the upper lip of the user, a sealing flap at the end of said wall shaped to conform to the contour of the user's upper lip, means to retain medicament in said dome portion, and means at the opposite end of said mask for heating said forehead engaging portion and the medicament contained in said dome.

2,591,993
MULTIPAWL FEED MECHANISM
Sulo Aijala, Coventry, R. I., assignor to Carl G. Peterson Co., a corporation of Rhode Island
Application October 7, 1947, Serial No. 778,381
1 Claim. (Cl. 74—577)



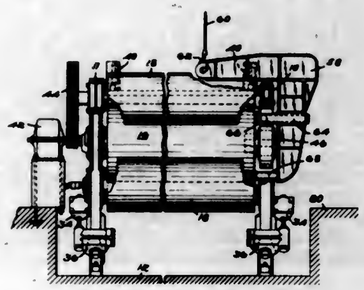
In a multi-pawl feed mechanism, a housing comprising a front plate, a rear plate spaced therefrom, and an annular shell locked between said plates, said plates having aligned extensions, a cross rod between said extensions adapted to be oscillated, a hub rotatably mounted in said plates and adapted to receive a shaft, a ratchet wheel keyed to said hub having a plurality of transverse ratchet teeth on the periphery thereof, cross studs locked to the plates positioned between said ratchet wheel and the annular shell, pawls pivotally mounted on said studs and having teeth at their forward ends for engagement with the ratchet teeth, said pawls having upstanding projections on said forward ends provided with spring receiving grooves, and an annular coil spring seated in said grooves and resiliently urging the forward ends of the pawls towards the ratchet wheel.

2,591,994
PROCESS OF BRAZING THIN BRASS MEMBERS
Horace W. Alexander, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 10, 1946, Serial No. 702,502
1 Claim. (Cl. 113—112)



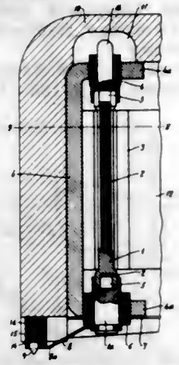
The process of brazing thin brass members together to make a fluid-tight joint between them which includes placing a thin brass brazing sheet material between the portions of the brass members to be joined including an edge portion, folding an edge portion of one of the brass members over an edge portion of the second brass member to clamp the brass members together with the brazing sheet material in between leaving a slight crevice between the folded over portion and the adjacent portion of the second member, applying a uniformly heaping quantity of a substantially non-fluxing paste of a substantially uniform composition containing substantially non-fluxing methyl cellulose and a substantial portion of brass powder having a 30–50% zinc content over the exterior mouth of the crevice and the adjacent exposed exterior edge portion throughout the length of the joint, and heating the assembly in a non-oxidizing atmosphere for a sufficient length of time at a sufficient temperature to cause the brazing sheet material to fuse together the adjacent portions of the brass members while excessive distillation of zinc from the brazing material is prevented by preventing the free escape of zinc vapor by the location of the heaping quantity of the non-fluxing paste at the mouth of the crevice and to cause the brass powder to melt and flow into and fill the slight crevice beneath the folded over portion.

2,591,995
VULCANIZING MACHINE
George E. Apel, Belmont, Mass., and Don F. Collins, Pontiac, Mich., assignors to Boston Woven Hose and Rubber Company, Cambridge, Mass., a corporation of Massachusetts
Application September 23, 1949, Serial No. 117,432
5 Claims. (Cl. 18—6)



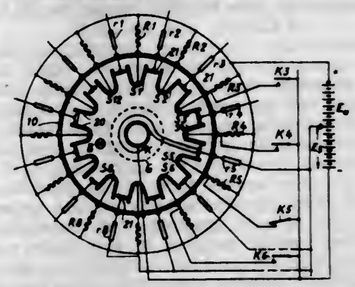
1. In a vulcanizing machine embodying front and rear side frames, a cylindrical vulcanizing drum rotatably mounted at its ends in the frames, an endless pressure band cooperating with an arcuate portion of the drum, a plurality of rolls cooperating with the drum to support the band, and a spider detachably secured to the front side frame and providing a bearing rotatably supporting the front end of the drum; a drum lifting and supporting unit comprising a body having two arms disposed in a vertical plane coincident with the axis of the vulcanizing drum with one arm extending vertically forwardly of the spider and the other arm extending horizontally over the top of the drum, a drum engaging element and two drum lifting elements carried by the vertical arm and extending into contact with the drum, said engaging element being arranged in triangular relation with the two lifting elements and lifting means engaging the horizontal arm at a point over the drum.

2,591,996
MOVING-COIL PHONOGRAPH PICKUP
Holger Christian Arentzen, Copenhagen, Denmark, assignor to Fonofilm Industri A/S, Copenhagen, Denmark, a joint-stock company of Denmark
Application February 10, 1950, Serial No. 143,409
In Denmark January 14, 1949
5 Claims. (Cl. 179—100.41)



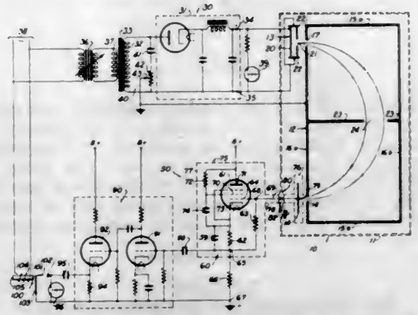
1. A phonograph pick-up device comprising a supporting structure, a pair of opposed magnetic pole pieces fast with said supporting structure and shaped to define an elongated space between the opposed faces thereof, an elongated armature extending longitudinally through said elongated space and mounted for rotation relative to said pole pieces, a winding carried by said armature and having its turns extending longitudinally along the circumferential surface thereof on both sides thereof, an arm extending transversely from said armature outside said space, said arm being relatively resilient for forces in the axial direction of said armature, but relatively rigid for forces perpendicular thereto, and a stylus carried by said arm at a distance from the axis of said armature and constructed for engagement with the groove of a record disposed in a plane substantially perpendicular to the axis of said armature.

2,591,997
ELECTRON TUBE DEVICE
Nils Erik Gustav Backmark, Hammarbyhojden, Sweden, assignor to Telefonaktiebolaget L M Ericsson, Stockholm, Sweden, a company of Sweden
Application October 20, 1949, Serial No. 122,443
In Sweden October 29, 1948
4 Claims. (Cl. 313—157)



1. An electron tube device comprising an electron tube having an envelope containing a plurality of electron-receiving electrodes, a plurality of control electrodes alternating with said receiving electrodes and a cylindrical cathode arranged centrally between said receiving electrodes and said control electrodes, means arranged outside said envelope for producing a magnetic field penetrating the discharge space of said tube and the field lines of which are parallel to the axis of said cathode, means for applying a positive potential to said control electrodes, and means for reducing said positive potential on any of said control electrodes in order to direct the electron stream emitted from said cathode to one of said receiving electrodes.

2,591,998
LEAK DETECTOR
William R. Baker, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application July 29, 1947, Serial No. 764,519
3 Claims. (Cl. 250—41.9)



1. A leak detector comprising a mass spectrometer including an ion generating source, said source being disposed opposite an ion access aperture positioned in the ion baffle surface of said spectrometer, an ion beam receiver positioned opposite an ion egress aperture in said baffle surface, an amplifier connected to said receiver and having at its output an indicator, means whereby an ion beam of said spectrometer is caused to sweep periodically back and forth along said baffle surface and across said ion egress aperture, said beam thereby periodically impinging upon said receiver, a shunt circuit about said indicator, and means in said shunt circuit for opening and closing said circuit in synchronism with said periodically impinging ion beam, whereby said indicator is rendered operative and inoperative in synchronism with said beam.

2,591,999
ADJUSTABLE SUPPORTING LEG
Theophilus A. Barham, Sr., Norfolk, Va.
Application October 21, 1949, Serial No. 122,706
6 Claims. (Cl. 45—139)

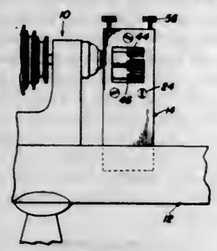
1. An adjustable supporting leg formed of longitudinally extensible leg sections including an upper leg section and a lower leg section, said leg sections being of channel shaped cross section and said lower leg section being sized to slidably fit in the channel of the upper leg section and being disposed therein with the channel portion thereof facing inwardly of the channel portion of the upper leg section, said upper leg section having a strap member fixed thereto and extending across the channel thereof, the bed or bight portion of the lower leg section engaging against the strap member and be retained thereby against movement outwardly of the open side of the channel of the upper leg section, said bight portion being provided with longitudinally spaced, later-

ally elongated openings, and said strap member having an integral lip projecting downwardly from its bottom edge and having a free end portion inwardly offset with respect to the channel of the upper leg section, said openings being arranged to selectively receive the lip and the free



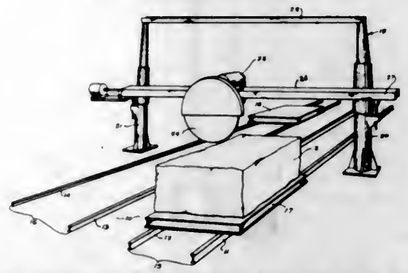
end portion of said lip engaging against the inner side of the bed or bight portion of the lower leg section for locking the leg sections in a plurality of extended positions and to prevent the lower leg section from being retracted relatively to the upper leg section until initially extended to disengage the lip from the opening engaged thereby.

2,592,000
WATCHMAKER'S SCREWDRIVER SHARPENER
Arthur J. Barrett, Onawa, Iowa, assignor of twenty-five per cent to Charles T. Murphy and twenty-five per cent to Paul L. Wolpert, both of Onawa, Iowa
Application July 20, 1950, Serial No. 174,855
4 Claims. (Cl. 51—80)



1. A screwdriver sharpener comprising, a supporting means including a pair of rectangular plates each having an opening through its faces, the inner faces of said plates being juxtaposed and abutting one another, said inner faces having transversely disposed complementary grooves formed therein and intersecting each opening, means for removably securing said plates to one another, said opening in each plate being aligned with each other and constituting a single opening and the complementary grooves in each plate being aligned to form first and second bores, a first shaft having its ends rotatably mounted in the ends of said first bore, a first grinding tool and a first pinion gear coaxially mounted on said first shaft intermediate the ends of the latter, a second shaft having its ends rotatably mounted in the ends of said second bore, a second grinding tool and a second pinion gear coaxially mounted on said second shaft intermediate its ends, said pinion gears and said grinding tools being disposed wholly within the confines of said single opening, said pinion gears being adapted to intermesh, and means operatively connected to an end of said second shaft for rotating said second shaft.

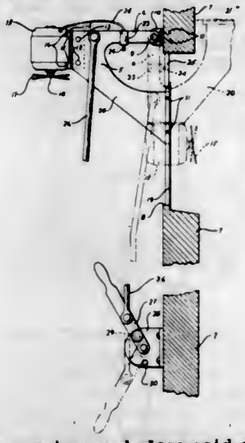
2,592,001
HYDRAULIC MOVING, POSITIONING, AND HOLDING MECHANISM
Edwin W. Bereit, Cleveland, Ohio, assignor to Ingalls Stone Company, Bedford, Ind., a corporation of Delaware
Application August 6, 1949, Serial No. 108,976
9 Claims. (Cl. 125—14)



1. Apparatus for cutting stone including a work supporting car movable on rails, a stone cutting tool movable transversely of the path of movement of said car during cutting of the stone, means successively to precisely move said car to and to stop said car at pre-determined positions relative to said tool comprising a hydraulic positioning motor connected to said car, a pump adapted to deliver liquid under pressure from a reservoir to operate said motor and move said car, a metering gauge of adjustable air-free volume adapted to receive exhaust liquid from said motor and to limit the flow thereof to the volume of said gauge whereby to precisely limit the working stroke of said motor, said metering gauge comprising a cylinder, a metering piston movable in said cylinder, a spring urging said metering piston toward one end of said cylinder, said piston being movable away from said end of said cylinder by exhaust liquid from said motor, a stop member to limit the movement of said metering piston away from the end of said cylinder, and means to precisely adjust the position of said stop member.

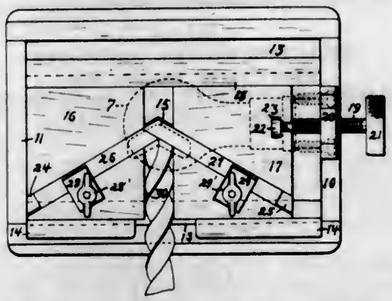
2,592,002
ROOM VENTILATING APPARATUS
Theodore R. Black, Tipp City, Ohio
Application July 30, 1948, Serial No. 41,701
1 Claim. (Cl. 98—116)

A ventilating apparatus comprising laterally spaced arms having at adjacent ends thereof means whereby they may be pivotally mounted on a wall for movement about a common axis above an opening in said wall to a position extending outwardly from said wall or to a position substantially parallel with said wall, said arms being of such length that when parallel with said wall they terminate between the upper and lower edges of said opening, rods extending between and rigidly secured to the outer ends of said arms, a motor and fan mounted on said rods, other laterally spaced arms extending lengthwise of the first mentioned arms, rigidly connected at their outer ends with said first mentioned arms and extending downwardly and inwardly therefrom and through said opening, a closure plate for said opening carried by the free ends of the last mentioned arms and movable thereby into and out of a position to close said opening, a normally open switch in circuit with said motor, mounted on one of the first mentioned arms and having a member to engage a fixed part ad-



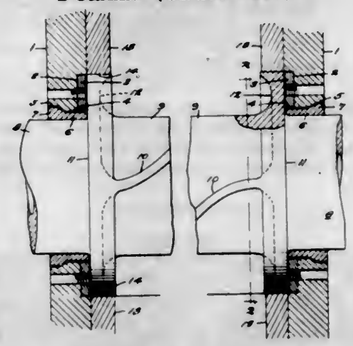
jacent said opening and close said switch as said arm approaches said opening, and a manually actuated device for moving said structure about said pivotal axis and for retaining the fan in the position to which it has been moved.

2,592,003
TWIST DRILL GAUGE
Emmitt Bliss, Fort Wayne, Ind.
Application August 13, 1946, Serial No. 690,173
7 Claims. (Cl. 33—201)



1. A gauge for twist drills by which to determine the relative angularity of their cutting edges, said gauge consisting of a housing having a light chamber containing a lamp and provided with an opening, a guide-plate seated on the housing having an upwardly extending rail and provided with a sight opening therein alined with the other opening, the opposite end portions of said sight opening having angular divergence, cleats securing said guide-plate in position on the housing, a gauge-block on said guide-plate secured between one of said cleats and the rail, another laterally movable gauge-block located between the other cleat and the rail and provided with adjusting means therefor, sliding bars disposed in corresponding grooves in said gauge-blocks equangularly disposed with respect to each other, the inner ends of said bars being mitred so that when one of the bars is positioned so as to overlap the other bar and contact is made therebetween, the mitred end of the one bar fits snugly against the adjacent side of the other bar, thus to obstruct light emitted from the lamp through the openings in the housing and guide-plate where the overlapping bars contact, and clamps on said gauge-blocks to secure said bars in adjusted positions.

2,592,004
CIRCULAR END SHIELD FOR MIXER ROTORS
Stewart Bolling, Cleveland, Ohio
Application December 4, 1950, Serial No. 199,014
1 Claim. (Cl. 259—137)

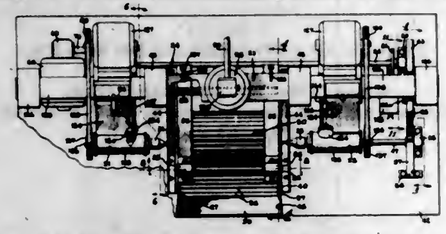


In a batch mixer of the type comprising a casing having an elongated substantially circular mixing chamber, parallel end walls closing opposite ends of the chamber, said end walls having bearing openings extending therethrough and opening into the chamber in axial alignment with the longitudinal axis thereof, an elongated rotor mounted in said casing for rotation about the longitudinal axis thereof, trunnions carried by opposite ends of the rotor and mounted for rotation in the bearing openings and a spiral rib carried by the rotor and projecting outwardly therefrom, means to prevent contact of the contents of the chamber with the trunnions and the walls of the bearing openings comprising outwardly extending annular flanges carried by the rotor adjacent opposite ends of the chamber, said flanges having arcuate grooves in their opposed faces, the outer walls of the grooves merging with the peripheries of the flanges to form opposed relatively sharp edges at the peripheries of the flanges, annular wear plates removably recessed into the end walls of the chamber in encircling relation to the bearing openings, said wear plates engaging the flanges adjacent the trunnions, and shroud plates carried by the end walls of the chamber in encircling relation to the flanges, said shroud plates being of a thickness substantially equal to the thickness of the flanges and encircling the flanges in closely spaced relation thereto.

2,592,005
MACHINE FOR FORMING SOLDER BARS
Charles E. Burke, Ludlow, Ky.
Application February 21, 1948, Serial No. 9,997
5 Claims. (Cl. 29—38)

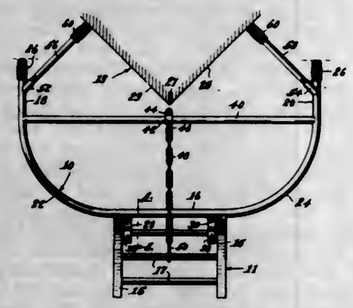
1. In a machine for forming the ends of solder bars, a pair of spaced wheels having aligned bar receiving grooves in their peripheries, means for feeding the bars to said grooves, a guide rail formed of relatively thin flexible material for maintaining the bars in the grooves throughout a portion of the rotation of the wheels, means for indexing the wheels a distance equal to that between the centers of the grooves, a clamping and centering device for clamping the wheels between indexing movements and for

centering successive bars for forming operations thereon, the said clamping and centering device including an equalizing bar, actuating means connecting the opposite ends of the equalizing bar to an intermediate portion of the flex-



ible guide rail, and an actuating device connected to the intermediate portion of the equalizing bar adapted to force the bar and guide rails into clamping engagement against the solder bars.

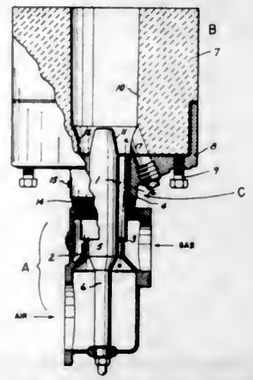
2,592,006
PROP ATTACHMENT FOR LADDERS
James A. Burke, Brandon, Wis., assignor of one-third to Wayne J. Gibbons and one-third to Melvin W. Gibbons, both of Brandon, Wis.
Application August 17, 1948, Serial No. 44,779
3 Claims. (Cl. 228—60)



1. An extension brace for a ladder comprising a generally U-shaped frame having a straight bight portion and straight terminal leg portions, spaced clamps on the straight bight portion for attaching said brace to a ladder rung, a cross bar connecting the legs of said frame, a member having a terminal hook swingably suspended from said cross bar for engaging another ladder rung, internally threaded sockets projecting forwardly from the insides of the frame legs at about a 45° angle, and extension legs having threaded ends threadedly received within said sockets, the ends of said frame legs and of said extension legs being covered with rubber, said brace when clamped onto a ladder rung with the hook on said swingable member engaging another ladder rung being capable of supporting and spacing the top of said ladder from a structure against which said ladder is erected.

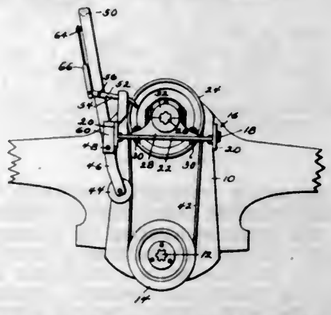
2,592,007
COMBINED INSPIRATOR AND GAS BURNER
Donald A. Campbell and Robert M. Buck, Cleveland, Ohio, assignors, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Application May 26, 1948, Serial No. 29,274
2 Claims. (Cl. 158—109)

1. In a device of the class described for entrainment and mixture of gas in a high pressure air stream, and combustion of said gas in the air of said stream: body means defining, in aligned contiguous relation, an elongated combustion chamber, adjacent the downstream end of said body means, and open at said end, and passageway to the upstream end of said combustion chamber including an elongated annular portion, terminating at said combustion chamber for discharge thereinto, and an annular air noz-



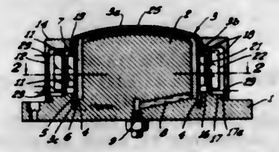
zle portion adjacent the upstream end of said elongated portion for discharge thereinto, said body means also providing gas inlet to said passageway adjacent said upstream end of said elongated portion, said nozzle and elongated portions being cooperative to provide said entrainment and mixture, and said elongated portion being of uniform cross-sectional area to preserve velocity therealong and prevent backflash from said combustion chamber.

2,592,008
TRACTOR POWER TAKE-OFF
Mike Cherek, Hatley, Wis.
Application November 12, 1948, Serial No. 59,590
3 Claims. (Cl. 74—242.1)



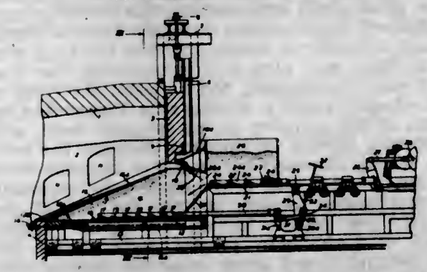
1. An auxiliary power take-off device for attachment to a tractor having a rear axle housing and a power take-off pulley, said device comprising parallel side frame members, attaching means for securing said side frame members to said tractor rear axle housing to extend rearwardly of the tractor at opposite lateral sides of said housing, said side frame members defining a horizontal opening above and in substantially vertical alignment with said power take-off pulley, an auxiliary power take-off pulley supported above said horizontal opening, endless belt means connected between said pulleys, an upright arm pivotally secured to one of the side frame members and an idler pulley carried at the lower end of said arm for engaging and tightening said endless belt means to transmit power from said power take-off pulley to said auxiliary power take-off pulley.

2,592,009
HYDRAULIC FORCE MEASURING DEVICE WITH ELECTRICAL INDICATOR
Anthony J. F. Clement, Culver City, Calif., and John W. Kettl, Memphis, Tenn.
Application February 1, 1946, Serial No. 644,792
11 Claims. (Cl. 73—141)



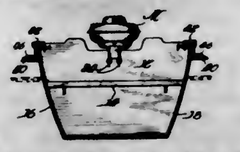
1. In a force-measuring device, an inverted cupped casing having a cylindrical expansible side wall and a flexible force receiving end wall, a solid noncompressible body positioned inside said cupped casing in spaced relationship thereto, and a body of liquid in said space adapted to transmit the force on the end wall of said casing into an expanding pressure normal to said side wall, an enclosing wall surrounding said expansible wall, an electrical conductor, rigid insulating means supporting said conductor upon and spaced from said expansible wall, a temperature-compensating electrical conductor between said walls, a body of electrically insulative and heat conductive fluid between said walls and in which said conductors are positioned, and electrical means in the circuit of said conductors to measure the change in resistance in said first-named electrical conductor upon a change in the tension therein.

2,592,010
APPARATUS FOR MELTING BATCH MATERIAL USED IN THE MANUFACTURE OF GLASS
Horace Cole, Saint Helens, Alfred R. Green, Rainford, and Ernest B. Le Mare and Robert F. Taylor, Allithwaite, England, assignors to Pilkington Brothers Limited, Liverpool, England, a British company
Original application January 4, 1946, Serial No. 639,080. Divided and this application June 18, 1948, Serial No. 33,884. In Great Britain September 15, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires September 15, 1964
19 Claims. (Cl. 49—54)



1. A furnace for melting batch material used in the manufacture of glass comprising an end wall to the furnace at the charging end thereof, a flat platform extending inwardly of the furnace from said end wall, a pair of vertical confining walls erected to extend along each side of the platform and rising upwardly therefrom, means for developing a high temperature over the platform, horizontal transporting means on the platform in contiguity therewith and extending between the said confining walls, and actuating means therefor, whereby a wedge shaped bank of batch material; having vertical sides and a sloping plane upper surface inclined downwardly toward the platform, formed over said transporting means between the said confining walls (so that the vertical sides of the bank are supported by the said walls), may be moved bodily forward along the platform by said transporting means at a rate related to the rate of melting on said sloping upper surface, and means for feeding fresh batch material into the back only of the bank across the full width thereof, the rate of moving and feeding being co-ordinated so that the position and outline of the bank remain approximately constant as a molten stream flows therefrom.

2,592,011
SPRAY GUARD FOR OUTBOARD MOTOR BOATS
William David Colston, Maywood, Ill.
Application April 19, 1949, Serial No. 88,362
2 Claims. (Cl. 9—1)



1. A splash guard for a row boat having arcuate side walls, said splash guard comprising a generally flat and elongated semi-rigid rubber member having a horizontally extending base, said member having an embedded spring metal brace vertically disposed and extending throughout its length, whereby the member may be fastened against the arcuate side of the boat, a plurality of clamp members attached to said brace for holding the edges of the splash guard against the arcuate side of a boat in a water-tight manner, each of said clamp members comprising a U-shaped bracket having one leg extending upwardly from said brace through the top of said splash guard and spaced from its edge, the other leg being shorter and adapted to extend over the side wall of the boat, and screw means on the bracket for fastening said bracket to the wall of said boat.

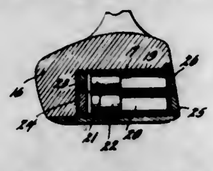
2,592,012
FEED SAVING ATTACHMENT
William O. Cumming, Cordele, Ga., assignor of fifty per cent to Louie D. Stephen, Cordele, Ga.
Application September 28, 1950, Serial No. 187,205
2 Claims. (Cl. 119—61)



1. In combination a feed box having a side with an inwardly extending flange at the upper edge thereof and a feeding opening above it, an attachment to save feed which would ordinarily

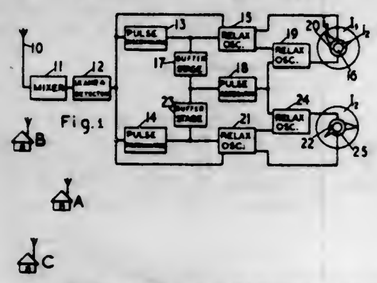
be wasted over said side, said attachment comprising a feed collecting trough having a wall with a longitudinal hanger laterally projecting from one upper edge thereof and disposed on the flange at the upper edge of said side, means including said longitudinal hanger hingedly connecting said feed collecting trough to said side wall for swinging movement into said feeding opening, said trough having an open top through which feed passes when the trough is swung through said feeding opening to empty said trough into the feed box, the wall of said trough to which said hanger is attached being flat and fitting flush against said side of said feed box thereby constituting a stop to limit the swinging movement of said trough and retain said trough in such position that said open top opens vertically upward.

2,592,013
GOLF CLUB
Thomas F. Curley, Atlantic City, N. J.
Application July 7, 1950, Serial No. 172,585
5 Claims. (Cl. 273—77)



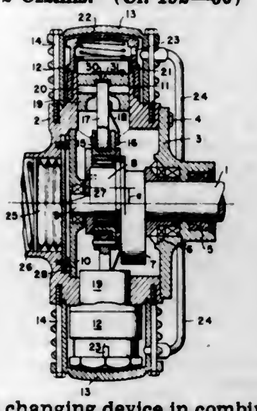
1. A golf club head having a percussion unit mounted in said head, said unit including a non-ferrous metal casing, a non-ferrous metal tube, a magnet mounted to the rear of the tube, a ferrous metal projectile slideable in said tube all enclosed within said casing, and the projectile adapted to break from said magnet and add additional impact to a golf ball when the said ball is struck by said club.

2,592,014
WIRELESS NAVIGATION SYSTEM
John Norman de Gruchy, Rickmansworth, England
Application August 5, 1947, Serial No. 766,203
In Great Britain July 20, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires July 20, 1965
3 Claims. (Cl. 343—103)



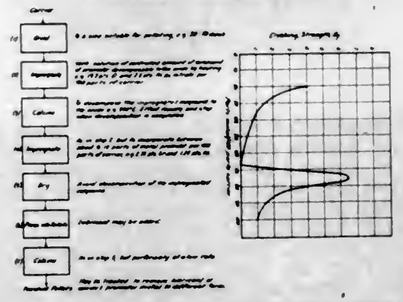
1. A radio receiver for measuring the time interval between pulses forming a pair in a received series of repeated pairs of signal pulses, comprising a first generator for generating a first rectangular waveform pulse initiated by the first signal pulse in said pair of signal pulses and terminated by the second signal pulse in said pair of signal pulses, a first meter fed with said first rectangular waveform pulse and with subsequent pulses similarly generated, a second generator for generating short pulses and having a constant repetition time rate which is so fast that several pulses will be generated during the aforesaid rectangular pulses, means for triggering said second generator with said first signal pulse so that one of said short pulses coincides with said first signal pulse, a third generator for generating a second rectangular waveform pulse initiated by the back edge of said first rectangular waveform pulse and terminated by the next occurring of said short pulses, a second meter fed with said second rectangular waveform pulse and by subsequent pulses similarly generated.

2,592,015
AUTOMATIC HYDRAULIC SPEED CHANGE MECHANISM
Luigi De Dionigi, Rome, Italy
Application December 11, 1948, Serial No. 64,878
In Italy December 15, 1947
2 Claims. (Cl. 192—60)



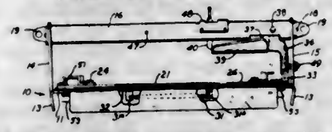
1. A speed changing device in combination with the drive and driven shafts of an internal combustion engine, the device comprising a hollow block with open ends, the block having a cross section in the form of a polygon with an equal number of faces, a radially directed cylinder for each face of the block, a cylinder head for each cylinder, a finned cover for each cylinder and cylinder head and spaced therefrom; a cover disposed over one open end of the block, the cover having an opening in the center and adapted for the rotatable insertion of the drive shaft, a bearing for the shaft on the inside of the cover and a stuffing box disposed around the shaft on the outside of the cover, a diaphragm disposed over the opposite open end of the block, a bearing in the diaphragm and adapted for the rotatable support of the end of the drive shaft, a cam disposed on the drive shaft intermediate the two bearings, a U-shaped ring coacting with the cam; a piston for each cylinder, a connecting rod for each piston, at least one king bolt connecting the free end of each connecting rod between the rims of the U-shaped ring; a second ring superposed on the rim of the cylinder in the cylinder head, said second ring having an opening through the center, a spring disposed between the cylinder head and the second ring and adapted to maintain said ring under tension against the rim of the cylinder, the piston having an axial opening formed therethrough, means maintaining the axial opening closed under inwardly directed tension, the cylinder head having an outlet in the side and above the second ring in normal position, the finned jacket also having an opening formed therein coacting with the opening in the cylinder head, a conduit disposed between corresponding openings in opposed jackets, a fluid for the cavities of the block and the conduits, means automatically replenishing the fluid supply, and means connecting the block to the driven shaft and adapted to impart rotary motion thereto.

2,592,016
DOUBLE-IMPREGNATION METHOD OF PRODUCING A PELLETED CATALYST
Willem Frederik Engel, Amsterdam, Netherlands, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application November 15, 1949, Serial No. 127,348
In the Netherlands December 29, 1948
4 Claims. (Cl. 252—472)



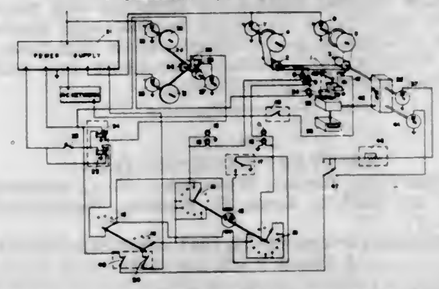
1. In the preparation of impregnated catalysts in pelleted form containing high concentration of catalytically active heavy metal promoter in combination with a relatively inert carrier material, the combination of steps which comprises dissolving the desired amount of a compound of the heavy metal promoter decomposable to the oxide by heating in two portions (A and B) of a solvent in such a manner that portion A contains from about 8 to about 12 parts of the heavy metal promoter per 100 parts of the relatively inert carrier and portion B contains the remaining amount of said heavy metal promoter, impregnating the relatively inert carrier with the said portion B, drying and calcining the resulting impregnated carrier at a temperature sufficient to decompose the impregnant compound, impregnating the resulting calcined material with said portion A, drying the resulting impregnated material at a temperature below that causing decomposition of the impregnant compound, pressing the resulting material into pellets, and calcining said pellets at a temperature sufficient to decompose the impregnant compound.

2,592,017
BOTTLE LIFTER
Oscar L. Engstrom, New York, N. Y.
Application October 11, 1947, Serial No. 779,278
6 Claims. (Cl. 294—87)



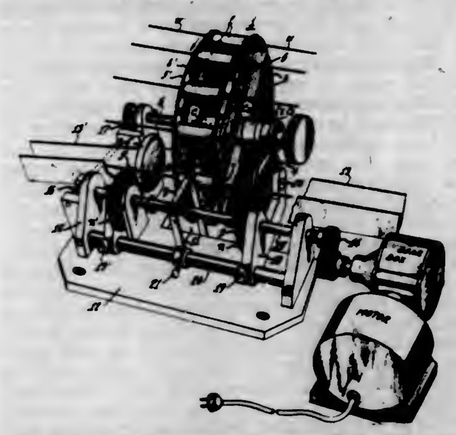
1. In a lifter for a plurality of bottles, a base plate provided with a series of apertures, a slide mounted on said base plate and provided with a series of apertures adapted to register with the base plate apertures, means comprising a single horizontal handle secured to said base plate for raising said lifter, slide-moving means for constricting said base plate apertures including a lever pivotally secured to said handle and connected to said slide, said lever comprising a hand grip extending horizontally below said handle, and a spring urging said slide to bring the slide apertures into register with the base plate apertures, whereby a plurality of bottles may be engaged upon grasping and lifting said handle with one hand.

2,592,018
FUNCTION PRINTER
Avard F. Fairbanks, Garvey, Calif., assignor to North American Aviation, Inc.
Application July 13, 1950, Serial No. 173,604
7 Claims. (Cl. 346—107)



3. In a film recording device means for sequencing predeterminately the exposure of two channels on the film, comprising optical systems for casting light on two parallel channels on said film, two multiple-position rotary switches ganged together and connected to turn each said optical system on and off at predetermined switch positions such that as said switches are rotated successively from position to position said optical systems are turned on and off in the same sequence, and manually operable step motor means for advancing said switches a step at a time to thereby obtain a predetermined sequence of exposure in said two channels.

2,592,019
WIRE-CUTTING MACHINE
Horace E. Farnett, Crescent Park, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 30, 1947, Serial No. 783,129
6 Claims. (Cl. 164—38)



1. A machine for simultaneously cutting, to a desired length, the oppositely located outwardly extending lead wires of prefabricated electrical components, said machine comprising a rotary

conveyor composed of a pair of rotatable members mounted in adjustably spaced relation for rotation about a common axis and having aligned slots in the peripheries thereof for receiving the oppositely extending lead wires of said electrical components when said components are placed in the space between said rotatable members, a pair of wheels mounted in adjustably spaced relation for rotation about an axis parallel to said first mentioned axis outside the arc of rotation of said rotatable members, said wheels having notches therein for engaging respective ones of said outwardly extending wires, and a blade mounted closely adjacent to the path of movement of each of said notched wheels for shearing said wires when said wires are urged against said blades upon rotation of said notched wheels, and means for rotating said rotatable members and said notched wheels in synchronism.

2,592,020

SANITARY NECK DUSTER

Roland John Farone, Watertown, N. Y., assignor of one-half to Louis G. Ronson, Watertown, N. Y.

Application December 23, 1947, Serial No. 793,424
1 Claim. (Cl. 15—226)



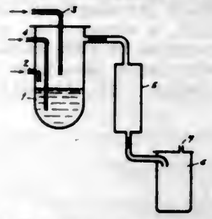
A two-in-one sanitary neck duster for throw-away use in barber shops and the like comprising a compressed disposable paper core made up of slitted ribbons coiled into roll form, the opposite half-portions of said core being selectively and progressively usable as bristle brushes, and a cardboard tube wholly encasing said core and constituting a wrapper for said core, said tube being of a length commensurate with the length of the core and being divided by a central score line into half-sections optionally usable as handles, the inherent properties of said core serving to cause same to expand radially and said tube confining and compressing said core until latter is to be used by the barber, one half-section of said tube being adapted to be grasped in one hand and the other half-section in the other hand and the two half-sections twisted axially in relation to one another so that by slipping one half-section endwise from the core, the corresponding half-portion previously bound and covered thereby is liberated so that the ribbons therein may be fluffed out and used as a dusting brush, the remaining half-section then serving as a handle, the latter half-section being bodily shiftable in a longitudinal direction on said core, after said dusting brush has been once used, to again enclose and compress said used brush and to frictionally bind said half-section around same, whereby said half-section again comes into use as a handle at the opposite end of said core and simultaneously uncovers the previously covered ribbons and allows same to be fluffed out and used as a second dusting brush.

2,592,021

METHOD FOR PURIFYING NORMALLY LIQUID CHLORIDES OF METALS OF GROUP 4 OF THE PERIODIC SYSTEM

Walter Frey, Basel, and Ernst Boller, Prattein, Switzerland, assignors to Saeurefabrik Schweizerhall, Schwiezerhalle, Switzerland, a corporation of Switzerland

Application July 14, 1948, Serial No. 38,734
In Switzerland July 26, 1947
12 Claims. (Cl. 23—87)



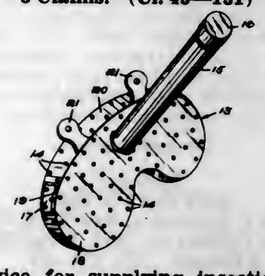
1. A process for removing coloring impurities from an impure normally liquid chloride of a metal of group 4 of the periodic system which comprises intermixing said chloride and a small proportion of an organic compound selected from the group consisting of hydrocarbons and compounds of carbon, hydrogen and at least one substituent from the group consisting of hydroxy, oxy, keto, amino and carboxyl radicals, heating said organic compound in a liquid body of said chloride at a temperature between 100° and 500° C. at which said compound carbonizes therein until a finely dispersed carbonization product is formed and until said impurities are taken up by said carbonization product, and separating purified metal chloride from said carbonization product holding said impurities.

2,592,022

DEVICE FOR USE IN PROTECTING BUILDINGS AGAINST TERMITES

Charles Benjamin Gallant, Newtonville, Mass., assignor to Gallant Termite Barrier, Inc., a corporation of Massachusetts

Application August 10, 1945, Serial No. 609,983
3 Claims. (Cl. 43—131)



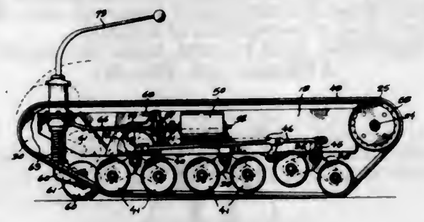
1. A device for supplying insecticide to soil comprising a container having its bottom forming a reentrant angle at the longitudinal center thereof, all of the sides being perforated, one or more ears secured to an upper side thereof adjacent an edge thereof, and a filling pipe extending upwardly at an inclination to one side thereof, the upper end of said pipe being at a higher level than the upper surface of the container and laterally spaced from the adjacent side thereof, said pipe being provided with a closing cap whereby the container may be attached to a side of a building structure with the ears in engagement with a wall of said structure and the filling pipe extending through and at an inclination to said wall of said structure.

2,592,023

MOTOR-DRIVEN INVALID'S CHAIR

Elden C. Gleason, Hartford, Wash., assignor to Gleep Mfg. Co., Inc., a corporation of Washington

Application December 23, 1946, Serial No. 717,948
4 Claims. (Cl. 180—9.1)



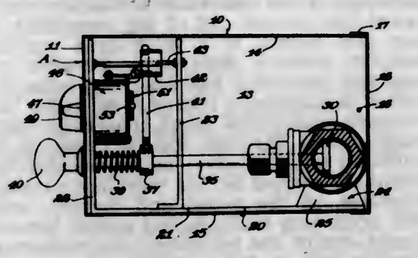
1. A motor-driven invalid's chair providing endless traction belts, a power plant for driving the belts, an auxiliary support for the front end of the chair comprised of a wheeled carriage movable from a normally inactive elevated position into a lowered operating position whereat the wheel bears upon the ground and causes the front end of the traction belts to be lifted clear of the latter. motor-driven means for powering the auxiliary support in effecting either the raising or lowering movements of the carriage, said chair having a series of longitudinally spaced dolly-yokes rocker-mounted for movement about transverse horizontal axes, and dolly-wheels therefor, acting to give support to the traction run of said traction belts, and means acting to cant the rearmost yoke and depress one of the wheels thereof automatically in response to a lowering of the wheeled carriage.

2,592,024

TIMING VALVE

Earl Goodroad and Elmer E. Goodroad, Cambridge, Minn., assignors, by direct and mesne assignments, to Flo-Matic Valve Co., a corporation of Minnesota

Application May 25, 1949, Serial No. 95,184
6 Claims. (Cl. 161—7)



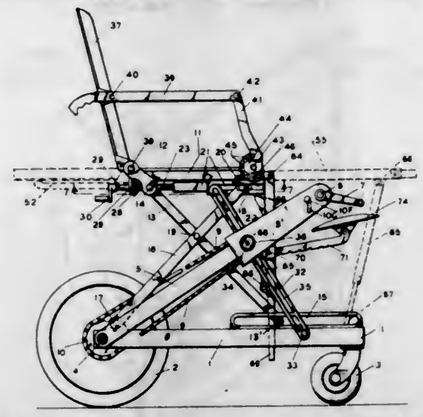
1. A timing valve comprising a valve movable between two extreme positions, a valve stem slidably and rotatably supported for moving said valve between extreme positions, a laterally projecting arm fixedly mounted on said valve stem for rotation therewith, a fixed shoulder against which said arm may engage to hold said valve in one extreme position, means urging said valve toward the other extreme position, a timing mechanism, and lever means actuated by said timing mechanism for rotating said arm to thereby disengage said arm from said shoulder means.

2,592,025

INVALID CHAIR

Anna Marie McCormick Gray, Portland, Oreg.

Application October 23, 1948, Serial No. 56,210
5 Claims. (Cl. 155—28)



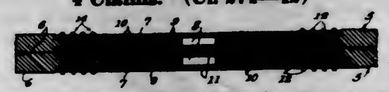
5. A wheel chair comprising a mobile base frame supporting a seat, a back pivoted to the rear of said seat and movable between a vertical position and a horizontal position substantially level with said seat, a brace slidably supported beneath said seat and extendable rearwardly to support said back in horizontal position, horizontal arm members pivoted at one end to the sides of said back, upright links pivoted to the sides of said seat near the front thereof, said arm members being pivoted at their other ends to the upper ends of said upright links, quadrants fixed with the lower ends of said links and having a plurality of arcuately arranged concentric apertures, bolts slidable transversely beneath said seat with their outer ends protruding beyond the opposite sides of said seat for selective insertion in one of the apertures of each of said quadrants, a manually operable lever pivoted beneath the bottom of said seat and on opposite sides of the pivot of the lever to the inner ends of said bolts for simultaneously retracting said bolts to adjust said quadrants and back, and a spring biasing said manually operable lever to simultaneously eject the ends of said bolts into an aperture of each quadrant to hold the back in adjusted position.

2,592,026

CLUTCH MEANS FOR PHONOGRAPH RECORDS

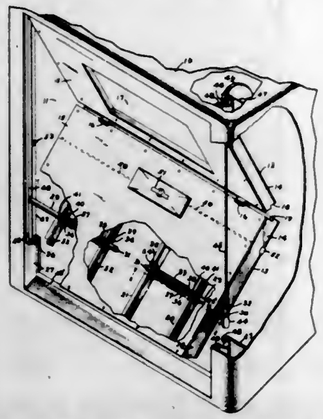
Edward H. Guboff, Beverly Hills, Calif.

Application April 24, 1948, Serial No. 23,017
4 Claims. (Cl. 274—42)



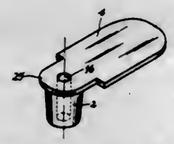
1. Disk phonograph record having a central hole and, on each side, an annular playing face, and a depressed area between said hole and playing face, clutch means comprising a series of projections extending from the surface of each depressed area, outwardly beyond the plane of each respective playing face, the projections being round in cross-section, tapered outwardly, and spaced apart, in the planes of said respective areas, a sufficient distance to permit free lateral passage between them of the projections of a contiguous record having a similar clutch face, the spaces between the projections being in the same plane as the adjacent depressed area.

2,592,027
DOOR FOR TRUCK BODIES
Carl Ferdinand Hagerup, Juneau, Territory of Alaska
Application July 13, 1950, Serial No. 173,497
2 Claims. (Cl. 160—191)



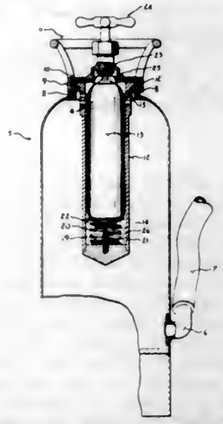
1. A truck body having an opening, a pair of doors for said opening, said doors being hinged together, one of said doors being hingedly connected to the roof of the truck body, one edge of each of said doors being rabbeted, said rabbets being in opposed relation to each other for locking engagement when said doors are closed, means in one of said doors for supporting a pair of shafts, shafts mounted in said means, resilient tension means mounted on said shafts and having one end secured in the means supporting the shafts, means mounted on and locked to said shafts, the opposite end of said resilient tension means secured in said last named means, means connected to one end of said shafts for maintaining a twist action of said resilient tension means, and means connected to said last named means for lifting said doors to an open position, a channel in each side edge of said opening, said channel housing the said means on one end of said shafts and the means connected to the last named means, said opening having an abutment for engagement by the marginal edge portions of said doors, and lock rods having a handle for securing said doors when in closed position.

2,592,028
SEALING WASHER
Andrew B. Hammitt and Herbert L. Birum, Jr., Trenton, N. J.
Application June 13, 1946, Serial No. 676,562
7 Claims. (Cl. 85—50)



3. Means for protecting the end of a fastening element projecting through an opening in corrugated sheet material comprising an oval shaped body portion having a hole therethrough for receiving said fastening element, means extending at right angles to the longer axis of said body member and at either side thereof for engaging the crown portion of said corrugated sheet material, and means extending from said engaging means to cover said body portion when reversely folded thereover, all of said elements being formed out of deformable material and being integrally united.

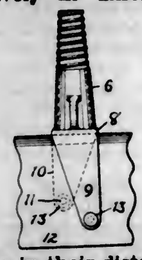
2,592,029
DRY POWDER FIRE EXTINGUISHER
Edward H. Hansen, Elkhart, Ind., assignor to Elkhart Brass Manufacturing Company, Inc., Elkhart, Ind., a corporation of Indiana
Application April 14, 1950, Serial No. 155,817
5 Claims. (Cl. 169—31)



1. A valve structure for controlling the discharge of gas from a cartridge of the type having an outlet at one of its ends normally closed by a frangible seal, said valve structure comprising: a valve body including a hollow receptacle closed at one end and open at the other end to enable a gas cartridge to be freely inserted endwise thereinto with its outlet facing the closed end of the receptacle, and a cover closing said open end of the receptacle; the valve body having escape ports therein through which gas in the interior of the receptacle may escape to the exterior thereof; a resilient gasket inside the closed end of the receptacle cooperable with the outlet of the cartridge to define a valve through which gas may escape from the cartridge into the interior of the receptacle; spring means in the closed end of the receptacle to bias the cartridge toward the covered end of the receptacle, away from said gasket, to a valve open position; a manually operable drive screw threaded in the cover and extending into the receptacle to bear against the adjacent end of a cartridge in said receptacle, said screw being cooperable with the spring means through the cartridge to effect regulation of said valve; and a puncturing pin immovably carried by the valve body inside the receptacle, at the closed end thereof, with its point projecting through said gasket toward the covered end of the receptacle, for rupturing the frangible seal on the cartridge when the latter is driven against the puncturing pin by said drive screw.

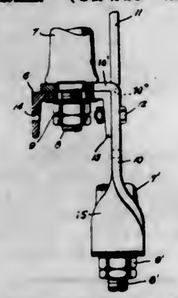
2,592,030
ELECTRIC WIRE INSULATOR SUPPORT
Donald D. Harding, Avilla, Ind.
Application December 27, 1948, Serial No. 67,478
1 Claim. (Cl. 248—221)

An insulator pin consisting of a hollow casting of non-corrosive and non-magnetic metal, shaped to afford a saddle with a wide base adapted to fit astride a cross-arm, said saddle having downwardly extending staggered side members of different lengths provided with nail holes located respectively in different vertical and



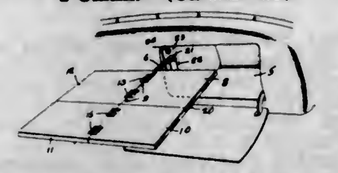
horizontal planes in their distal ends, and means driven through said holes into said cross-arm to secure said casting in place.

2,592,031
SUPPORTING STRUCTURE FOR INSULATORS
Donald D. Harding, Avilla, Ind.
Application March 14, 1949, Serial No. 81,338
1 Claim. (Cl. 248—220.5)



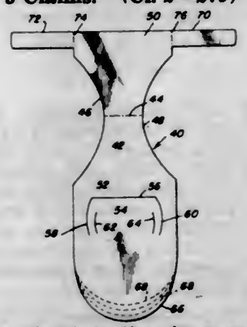
A mount for an insulator consisting of a cross-arm provided with opposite flanges, an auxiliary bracket having parts one of which is secured to one of said flanges and another part that overlies said cross-arm, and an insulator supporting pin provided with a stem that extends through said overlying part of said bracket and the cross-arm, and provided with securing means therefor, whereby the auxiliary bracket is clamped in place on the cross-arm, another part of said auxiliary bracket being adapted for support of another insulator pin.

2,592,032
FOLDING SERVICE TRAY FOR AUTOMOBILE GLOVE COMPARTMENTS
Minnis W. Henderson, Bluefield, W. Va.
Application July 28, 1950, Serial No. 176,477
1 Claim. (Cl. 311—21)



A folding serving tray for positioning in a glove compartment of a motor vehicle, comprising a supporting arm, a plurality of hingedly connected tray sections, one of said sections being connected to said arm, said sections to fold one upon another providing a compact article, means for securing the tray sections in an extended position for supporting articles thereon, and means for pivotally mounting the supporting arm within the glove compartment.

2,592,033
POCKET HANDKERCHIEF
Burton G. Hicks, South Easton, Mass.
Application October 22, 1948, Serial No. 55,903
5 Claims. (Cl. 2—279)



4. A holder for insertion in a coat pocket to display a simulated handkerchief, said holder being of foldable material and including handkerchief supporting and retaining end sections, respectively, and an intermediate section with arcuate side edges folded centrally downwardly and rearwardly with respect to said supporting section to provide an upwardly tapering handkerchief backing portion on said supporting section and to dispose said retaining section back of said supporting section, means on said supporting section adapted to support the handkerchief upright with said tapered portion backing the handkerchief and ends of the handkerchief folded backwardly in between said end sections, and means on said retaining section foldable forwardly over said supporting section and attached thereto and adapted to fold over the folds of said handkerchief ends to retain said handkerchief in place.

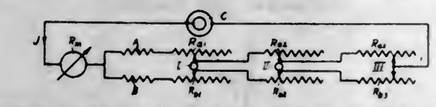
2,592,034
COLD-SETTING RESINOUS CEMENTS
Francis Robert Himsworth and Harry Hughes, Norton-on-Tees, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application May 5, 1950, Serial No. 160,382. In Great Britain May 9, 1949
7 Claims. (Cl. 260—30.4)

7. A cold-setting phenol formaldehyde resinous cement of improved resistance to caustic alkali containing at least 1 aliphatic ester of a member of the group consisting of furfuryl alcohol and tetrahydrofurfuryl alcohol having up to 4 carbon atoms in the aliphatic chain.

2,592,035
PHOTOELECTRIC EXPOSURE CONTROL
George Jacoby, Marquartstein, Germany, assignor of one-twentieth to Ralph Schubert, Alexandria, Va., and Irene Papcsy, Newark, N. J.
Application June 14, 1948, Serial No. 32,908
In France June 27, 1947
14 Claims. (Cl. 88—23)

1. A photoelectric exposure meter circuit for ascertaining and controlling the setting of correct exposure for photographic pictures comprising a self-generating photoelectric cell which supplies current for the circuit according to the

light falling on it, a measuring instrument, resistances connected in circuit relation with the cell and instrument, the resistances comprising two branches connected to one side of the photocell in parallel relation to each other, each branch comprising a plurality of resistances connected together, adjusting means for a plurality of the resistances in each branch, a plurality of exposure control means, a separate adjusting



means from each branch being mechanically coupled to each of the exposure control means, the two branches being connected at their opposite ends to each other, and means connecting said ends to the other side of the photocell, said resistance adjusting means being correlated with the exposure factors whereby the adjustment of the resistances causes the instrument to indicate a constant current in accordance with the factors and the light falling on the cell.

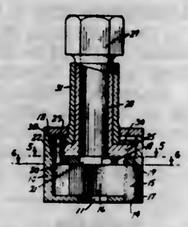
2,592,036
ESTERS OF CYCLOPENTANOPERHYDROPHENANTHRENE-3-MALONIC ACIDS
Emil Kaiser and Jerry Svarz, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 30, 1948, Serial No. 57,624
7 Claims. (Cl. 260—397.1)

1. A cyclopentanoperhydrophenanthrene compound having attached at its 3-position a group of the structure



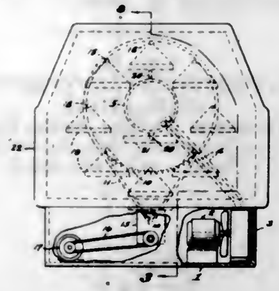
wherein R and R_1 are alkyl radicals of from one to six carbon atoms.

2,592,037
SPRING-ACTUATED STUD WRENCH
John Keiser, Windsor, Colo.
Application June 6, 1949, Serial No. 97,447
3 Claims. (Cl. 81—53)



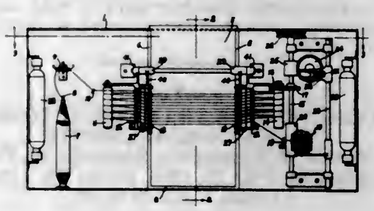
1. A stud bolt wrench comprising: a cup-like case having a stud-receiving opening in its bottom and an open top, there being three pivot openings in the bottom of said case equally spaced about the central stud opening; three, pointed, toothed dogs positioned normally in a radial position within said casing; a pivot boss extending downwardly from the outer extremity of each dog into one of said pivot openings; a projecting lug extending upwardly from each dog adjacent its axial extremity; a slotted plate positioned in said case above said dogs, said plate being provided with a central stud-receiving opening, and with radially extending slots each slidably receiving one of said bosses; means for rotating said case; an axially positioned, hollow stem arising from said case; a circular flange formed on the lower extremity of said stem within said case and positioned against said slotted plate; means for preventing said flange from rotating within said case; a rotatable sleeve surrounding said stem and extending into said case; and means on said sleeve for rotating said slotted plate in either desired direction.

2,592,038
REFRIGERATED DISPLAY CASE
John E. Kimsey, Spokane, Wash.
Application November 7, 1950, Serial No. 194,437
8 Claims. (Cl. 62—89.5)



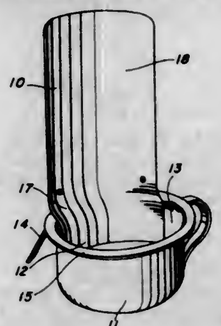
1. A display case comprising an outer casing; a stationary refrigerated cylinder mounted therein; food trays mounted to rotate about the cylinder; and scrapers mounted to rotate with the food trays and passing over the cylinder surface to scrape accumulated frost therefrom.

2,592,039
APPARATUS FOR EXAMINING THREADS VISUALLY FOR DEFECTS
Jean Paul Laetsch, Zurich, Switzerland, and Paul Litty, Guebwiller, France
Application September 4, 1947, Serial No. 772,190
In France September 9, 1946
9 Claims. (Cl. 73—160)



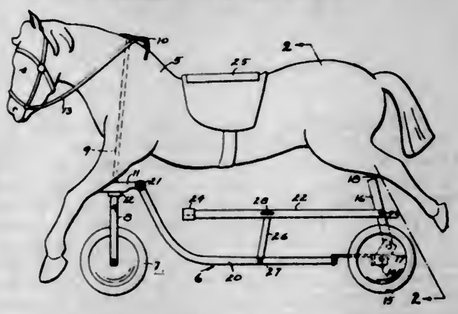
1. Visual thread examining apparatus comprising the combination of a casing with a viewing opening at the front, a screen mounted in said casing, thread feeding, supporting and guiding means within said casing leading said thread in a continuous manner in parallel rows in front of said screen, sources of light mounted within and at each side of said casing, moveable clappers operable at will into two positions, said clappers in one position allowing direct light rays from said sources in the longitudinal direction of the parallel rows of thread to illuminate them directly endwise, whilst intercepting rays which in the other position of said clappers give frontal illumination of the thread by reflection from interior front surfaces in the casing.

2,592,040
URINAL ATTACHMENT FOR NURSERY TOILETS
Paul D. La Hue, Dallas, Tex.
Application May 6, 1950, Serial No. 160,464
4 Claims. (Cl. 4—110)



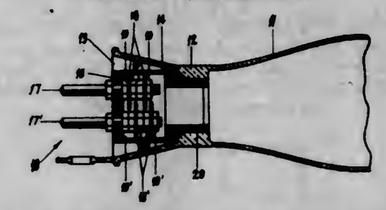
2. A urinal pot attachment including, an upright transversely curved plate having a depending transversely curved apron connected with the lower end of the plate by an offset, and legs secured at their upper ends to the outer side of the shield having keepers for engaging the rim of a pot and extending down for engaging a floor when the attachment is mounted on a pot.

2,592,041
VELOCIPEDE HORSE
Thomas W. La Monte, La Habra, Calif.
Application April 24, 1950, Serial No. 157,794
4 Claims. (Cl. 280—1.194)



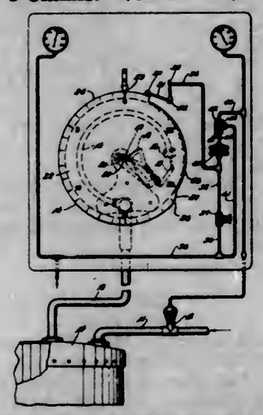
1. In a mechanical horse of the velocipede type: a body in simulation of a horse; a steering wheel and steering post therefor mounted forwardly on said body; a rear driving wheel; a crank axle for said rear wheel; a chassis frame in which said axle is journalled and pivotally connected to the forward portion of said body to permit vertical movement of the rearward portion of said body relatively to said rear wheel; a connecting rod joining the rearward portion of said body and said crank axle, and operative to rotate said axle in response to vertical movement of said body; a fulcrum bar extending upwardly from said chassis frame below the saddle portion of said body; and a lever fulcrumed on said bar and having pedals extending forwardly from said bar, said lever being connected to said rod to cause upward movement of said rod in response to depression of said pedals; said connecting rod being pivotally connected to said body at a position above said axle toward which said connecting rod inclines slightly forwardly from said axle when said axle is in low dead-center position, and said fulcrum bar being of sufficient height that said lever then inclines downwardly from said bar to the connection of said lever with said connecting rod, whereby said lever then forms a substantially acute angle with said connecting rod.

2,592,042
HEATING PLUG
Jonas Langerman, New York, N. Y.
Application November 19, 1949, Serial No. 128,425
3 Claims. (Cl. 219—40)



1. A safety electric heating element for a hot water bag, comprising a hollow threaded plug having an integral cylindrical extension positioned above the threaded end of said plug, a disk closing the upper end of said cylindrical extension, a pair of contact prongs projecting from the top of said disk, said contact prongs extending inwardly of said cylindrical extension, electrode plates secured to the internal end portions of said prongs, the electrode plates of each prong being in spaced-apart relation, the electrode plates on one prong extending towards the opposite prong and in spaced-apart superposed relation between the electrode plates on said opposite prong, whereby water within said bag entering said hollow plug will cause electrical connection between opposed electrodes, said electric connection being broken in the absence of water.

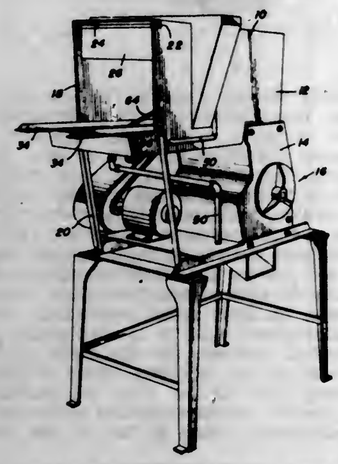
2,592,043
AIR-OPERATED PRESSURE INDICATING CONTROLLER
Earl E. Larsen, Wadsworth, and Charles B. Luther, Akron, Ohio, assignors to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application April 21, 1945, Serial No. 589,578
3 Claims. (Cl. 50—11)



1. Apparatus for simultaneously indicating and regulating hydraulic pressure, said apparatus comprising a member movable in response to changes of hydraulic pressure, motion-transmitting mechanism connected to said member

and including an element rotatable in response to movement of said member, a disc mounted on said element for rotation therewith and having pressure-indicating markings to indicate pressure and comprising a cam surface thereon, a cam follower on said cam, an air supply, and means for controlling the flow of air including an air jet connected to said air supply and a vane on said cam follower opposed to said jet and movable in response to movement of said cam follower.

2,592,044
WASHER ATTACHMENT FOR ICE CRUSHERS
Harry A. Lehman, James A. Bateman, and William W. Bateman, Mineral Wells, Tex.
Application October 1, 1948, Serial No. 52,292
3 Claims. (Cl. 241—62)



1. In combination with an ice crushing machine, an apparatus for washing and cleaning ice prior to the disposal thereof into the crushing compartment of said machine, said apparatus being supported solely by and overlying the machine and comprising, a guide slidably supporting a block of ice and leading to said compartment, spray nozzles associated with the guide for supplying a fluid medium to ice on said guide, means for draining the fluid medium employed for washing and cleaning a block of ice on said guide, and a pressure actuated valve including a vertically inclined vertically swingable operating lever disposed in the path of movement of a block of ice slidably mounted on the guide for controlling the flow of fluid from the spray nozzles, said compartment being of sufficient length and width to prevent the hands of an operator from entering said compartment during the sliding of ice through the compartment, and hollow lateral projections carried by said casing communicating with the interior of said casing and receiving said spray nozzles.

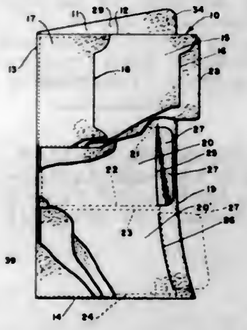
2,592,045
LEG REST
Charles Louis Le Moir, Vancouver, British Columbia, Canada
Application February 6, 1950, Serial No. 142,650
2 Claims. (Cl. 155—165)

1. A leg rest, adapted for attachment to the instrument panel of an automobile adjacent its accelerator pedal, said leg rest comprising a bracket to be secured to said panel, an arm having a ratchet wheel swingingly mounted in the bracket, said arm having a leg pad thereon, a sleeve carried by the bracket having a spring projected plunger, said plunger having a pawl adapted to engage the ratchet wheel to allow



the arm to swing in one direction and to hold said arm against swinging in the opposite direction, said plunger having a knob at one end to facilitate the disengagement of the pawl from the ratchet wheel.

2,592,046
COMBINATION POCKET SECRETARY AND/OR HIP POCKET WALLET
Bruno A. Leue and Beverly Anne Leue, Mount Prospect, Ill.
Application August 23, 1950, Serial No. 181,012
4 Claims. (Cl. 150—35)

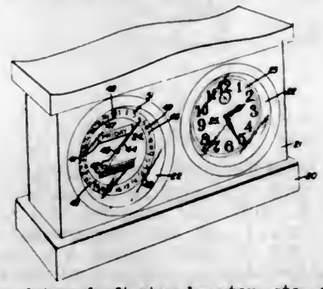


4. A combination pocket secretary and hip pocket wallet, comprising front and rear oblong sections folded along longitudinal edges to form a hinge portion, the lower edges of the said oblong sections being secured defining a secretarial pocket, a reinforcement pocket on the inner wall of the said rear section and having its longitudinal axis in coincidental relationship with the transverse axis of the said rear section, reinforcement means removably securable within the said reinforcement pocket, a storage pocket adjacent the said reinforcement pocket to retain removably the said reinforcement means in inoperative position, and a longitudinal slitted portion on the outer wall of the said rear oblong section adjacent the free edge thereof defining a currency holding pocket within the confines of the said rear oblong section.

2,592,047
CLOCK OPERATED PERPETUAL CALENDAR
John Lind, Newberg, Oreg., assignor of one-half to A. E. Otis, Newberg, Oreg.
Application March 21, 1950, Serial No. 150,929
12 Claims. (Cl. 58—6)

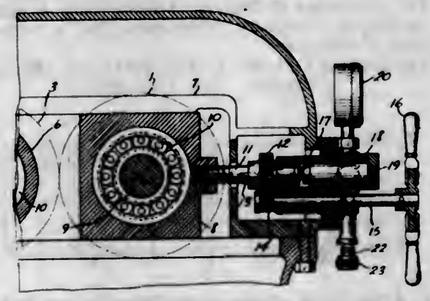
1. A clock driven perpetual calendar mechanism comprising a clock controlled mechanism operated once every twenty-four hours, a month indicator, a weekday indicator and a monthly date indicator, a calendar drive shaft, connected with and operated by the clock controlled mechanism and performing an angular movement of predetermined extent upon operation, means for

linking said weekday indicator with said calendar drive shaft, a rotary shaft driving the monthly date indicator, means for operating the month indicator, controlled by the said rotary drive shaft and operative at the completion of a full revolution of the same, means for advancing said rotating monthly date indicator drive shaft step by step, means on the calendar drive shaft for operating the aforesaid advancing means for the



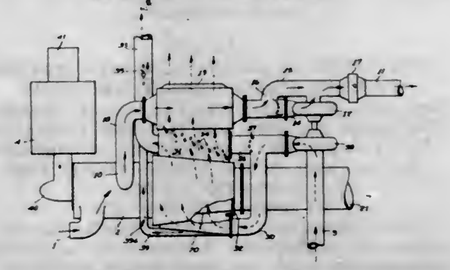
rotating drive shaft step by step, step regulating means controlled by the rotating drive shaft for the monthly date indicator for limiting the effective extent of the stepwise advance of the advancing means for the rotating drive shaft for the monthly date indicator, an obturator plate for concealing monthly date indications not existing in the month indicated by the month indicator and means controlled by said step regulating means for moving said obturator plate.

2,592,048
HYDRAULIC ROLL POSITIONER
Gosta R. Linden, Nutley, N. J., assignor to J. M. Lehmann Company, Inc., Lyndhurst, N. J., a corporation of New York
Application September 27, 1949, Serial No. 118,057
1 Claim. (Cl. 241—159)



In a roller grinding mill having three rollers arranged in horizontal train with the center roller mounted in fixed bearings and the flanking rollers mounted in sliding bearings and adjustable toward and away from the center roller, the improvement which comprises, in combination, externally threaded screw jacks respectively engaging internally threaded apertures in each of the bearings of the adjustable flanking rollers, an hydraulic ram for each of the screw jacks respectively the plunger of each ram being arranged to abut the outer end of each screw jack to take the thrust of its associated screw jack, and the cylinder of each ram being fixed relative to the frame of the mill and being free from communication with any other cylinder and with any other closed container, a relief valve and a pressure gauge attached to each cylinder of each ram respectively, and an independently operable turn shaft carrying a spur gear which meshes with a spur gear which is pin and slot connected to each of the jacks respectively in such manner that the axis of each turn shaft is parallel to but offset from the axis of each associated jack, each said relief valve being adjustable to maintain constant the volume of the fluid space within the corresponding cylinder so that once the pressure on any bearing has been adjusted by the turn shafts and jacks to the amount desired, the said volume will remain unchanged until the corresponding relief valve opens.

2,592,049
AIRCRAFT HEATING SYSTEM
Robert L. Linforth and Sigurd Daniel Hage, Seattle, Wash., assignors to Boeing Airplane Company, a corporation of Delaware
Application December 10, 1946, Serial No. 715,288
20 Claims. (Cl. 257—9)

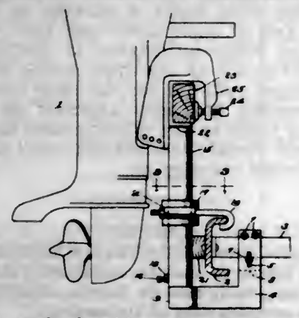


5. A heating unit for aircraft comprising a compressor and conduit means for intake of air thereto and delivery of such air after compression towards the cabin, a fuel consuming prime mover operatively connected to drive said compressor, and jacketed to constitute a primary heat exchanger, a secondary heat exchanger interposed in said conduit means between the compressor and the cabin, branched conduit means separate from said first conduit means, for leading heated air from said primary heat exchanger towards airfoil surfaces for anti-icing, and through said secondary heat exchanger for modification of the temperature of air in said first conduit means on its way to the cabin, means adjustable to govern the ratio of air delivered from the primary heater through the anti-icing and cabin-modifying branches of said second conduit means, said second conduit means having a branched intake portion, of which one branch leads to, and the other branch by-passes, said primary heat exchanger, and valve means settable to determine by which branch the intaken air is delivered to said secondary heat exchanger.

2,592,050
OUTBOARD MOTOR CARRIER FOR AUTOMOBILE BUMPERS
Roy L. McCharen, Borger, Tex.
Application April 27, 1950, Serial No. 158,521
2 Claims. (Cl. 224—42.03)

1. A carrier for outboard motors comprising an L-shaped base; a clamp at one end of said base adjustable as to width and thickness and adapted to straddle a bumper support arm, said base extending downwardly from said bumper support arm and underlying and being spaced from a bumper supported by said arm, the other end of said base projecting beyond said bumper and being provided with an upstanding spindle; a tubular post rotatably mounted upon said spindle; a hook mounted for vertical and rotatable adjustment upon said post and adapted to

grip one edge of a bumper supported by said bumper support arm; and a channeled header at



the upper end of said post and proportioned to receive the clamp of an outboard motor.

2,592,051

COMPOSITION OF MATTER FOR MAKING MOLDED PHONOGRAPH RECORDS

Thomas R. McElhinney and Thomas D. Woodruff, Lockport, La., assignors to Valite Corporation, New Orleans, La., a corporation of Louisiana

No Drawing. Application October 11, 1949, Serial No. 120,816
8 Claims. (Cl. 106—37)

5. A resinous composition of matter formed by intimately mixing and compounding at elevated temperature ethyl cellulose with a permanently thermoplastic modification product formed by the reaction at elevated temperature of a pinewood pitch, comprising a residue low in abietic acid remaining after the separation of refined rosin high in abietic acid from the resinous material obtained by the extraction of pinewood with a solvent, with furfural, a drying oil and a softening agent.

2,592,052

METHOD OF PLANTING

John C. McKenna, Jr., Madison, Wis.

Application October 12, 1948, Serial No. 54,031
2 Claims. (Cl. 47—58)



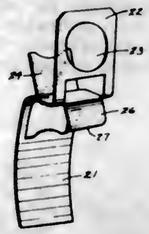
1. The method of planting tree seedlings in relatively soft unexcavated ground which comprises, substantially encasing the roots of the seedling in an inverted wedge-like body of earth admixed with water, solidifying said body by freezing, and forcing the solidified body into the relatively soft unexcavated ground a sufficient distance for adequate planting of the seedling.

2,592,053

HOSE HOLDING CLIP

John A. Megla, Youngstown, Ohio

Application November 28, 1949, Serial No. 129,774
1 Claim. (Cl. 248—79)



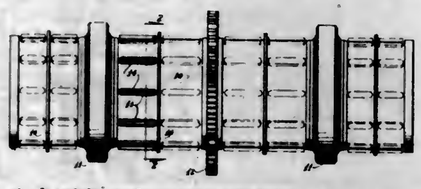
A hose clip formed of a single section of sheet material, and intermediate transverse section of which is horizontal and one end of which forms a vertical arm standing thereabove and the other end of which forms a vertical arm depending therebelow, a portion of the said depending arm being cutout and bent upwardly to form a secondary upstanding arm spaced with respect to said upstanding vertical arm, and a portion of the said upstanding vertical arm cutout and bent downwardly to form a secondary downturned arm spaced with respect to said depending vertical arm, an opening formed in the said upstanding arm, the said opening lying partially above and partially below the plane of the end of the secondary upturned arm for receiving a hose and holding the same in arched position over the end of the said upturned arm, the uppermost end of the said secondary upturned arm being transversely concave.

2,592,054

BARKING DRUM

Fred A. Mertz and Robert S. Walker, Allentown, Pa., assignors to Traylor Engineering & Manufacturing Company, Allentown, Pa., a corporation of Delaware

Application October 3, 1950, Serial No. 188,188
4 Claims. (Cl. 144—208)



1. A barking drum comprising a continuous shell, a plurality of milled ports in said shell, and a reinforcing bar affixed externally to said shell adjacent to and encircling each of said ports.

2,592,055

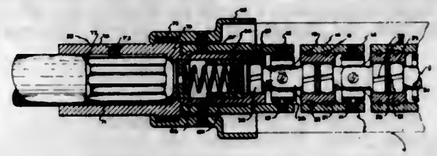
FLEXIBLE SHAFT

Fred A. Monahan, Detroit, Mich., assignor to Morris Farm Machinery Company, Detroit, Mich.

Application December 1, 1949, Serial No. 130,530
1 Claim. (Cl. 64—2)

In a flexible coupling or shaft, a plurality of swivelly and end to end connected outer races angularly shiftable with respect to one another, a plurality of inner races therein, friction reducing bearings between the inner and outer races whereby the outer races journal the inner races, the inner races having non-circular inner bore

portions, male driving links connecting the inner races and comprising short rods having non-circular male ends disposed in the non-circular bore portions of the inner races, with each inner race receiving adjacent ends of two links and with each link disposed in two adjacent inner races,



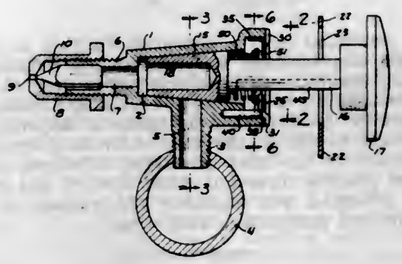
the male ends of the links being loosely disposed in the inner bore portions of the inner races to permit relative angular displacement of the inner races and the male links, the outer races being interconnected by means of swivel rings inside which are the short rods.

2,592,056

VALVE WITH ADJUSTABLE FLOW CONTROL

Ervin H. Mueller, Grosse Pointe, Mich.

Application December 23, 1948, Serial No. 66,956
2 Claims. (Cl. 251—154)



1. A valve comprising, a ported valve body and a ported valve member which is turnable in the body for bringing the ports into and out of registry, a projecting operating stem for the valve member, means including a projection turnable with the valve member, a first limit stop substantially fixed relative to the body member, a cap through which the operating stem extends, said cap having a flange like part extending into the body member and constituting a second limit stop, said projection positioned between the limit stops, the first limit stop, when the projection abuts the same, positioning the valve member with the ports out of registry, the second limit stop, when the projection abuts the same, positioning the valve member with ports in substantial registry, and means for mounting the cap on the body member for rotary adjustment relative to the body member whereby the second limit stop may be adjustably positioned to control the registry of the ports when said projection abuts the second limit stop.

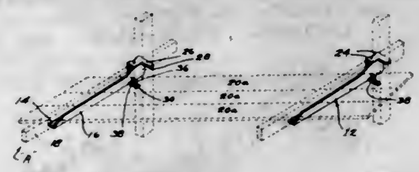
2,592,057

SCAFFOLD JACK

Odas Murphey, Pomona, Calif.

Application March 8, 1948, Serial No. 13,632
2 Claims. (Cl. 304—40)

1. A platform support comprising a length of angle iron having a bottom surface and a side surface integral with and at right angles to one another, a box-like structure upon one of the ends of said angle iron and including as elements thereof said bottom and side surfaces whereby a horizontal platform support element inserted therein is held against lateral movement and unbalance over a free end of said angle iron, and oppositely disposed serrated bars projecting from the exterior surface of said box-like structure adapted and arranged to bite into opposite sides of a supporting timber vertically disposed between said bars upon application of gravitational pressure upon said platform support.



2,592,058

POLYVINYL ALCOHOL ESTER OF AN ACID ESTER OF CARBONIC ACID AND AN UNSATURATED ALCOHOL

Irving E. Muskat, Plainfield, N. J., and Franklin Strain, Norton Center, Ohio, assignors, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application February 21, 1947, Serial No. 730,204. In Great Britain September 11, 1941
2 Claims. (Cl. 260—77.5)

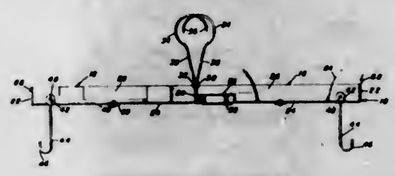
2. A neutral ester of (*a*) polyvinyl alcohol and (*b*) an acid ester of carbonic acid and an unsaturated monohydric alcohol having 3 to 9 carbon atoms and having an unsaturated carbon to carbon linkage in an aliphatic chain between the beta and gamma carbon atoms of the alcohol; wherein at least two hydroxy groups of (*a*) are esterified with (*b*).

2,592,059

FOLDABLE GAMBREL

Edward J. Nederostek, Cementon, Pa.

Application June 5, 1950, Serial No. 166,139
4 Claims. (Cl. 294—79)



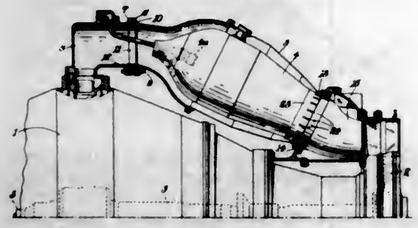
1. A gambrel comprising a pair of arms each having side walls and inner and outer end walls, interdigitating pin receiving knuckles on the upper edge of said inner end walls, a hinge pin extending through said knuckles and pivotally securing said arms to each other, game supporting means on said arms, a pair of parallel gambrel supporting hooks in opposed relation to each other, and a spiral disposed about a portion of said hinge pin and terminally secured to said gambrel supporting hooks, said inner end walls abutting each other when said arms are in longitudinal alignment.

2,592,060

MOUNTING OF COMBUSTION CHAMBERS IN JET-PROPULSION AND GAS-TURBINE POWER-UNITS

George Oulianoff, Rimington, near Clitheroe, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application March 3, 1947, Serial No. 732,074
In Great Britain March 25, 1946
16 Claims. (Cl. 60—39.32)



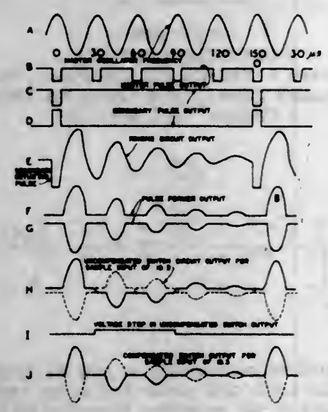
4. In a gas turbine power plant, a turbine, a compressor connected to be driven by said turbine, turbine inlet structure, compressor delivery structure, a combustion chamber, a universally-angularly-settable joint whereby one end of said combustion chamber is connected to one of said structures, locating means to locate the combustion chamber against movement axially of itself with respect to said one of said structures, gas-sealing universally-angularly-settable slide means on the other end of said combustion chamber, and gas sealing slide means on the other of said structures to cooperate with the gas-sealing slide means on said other end of said combustion chamber.

2,592,061

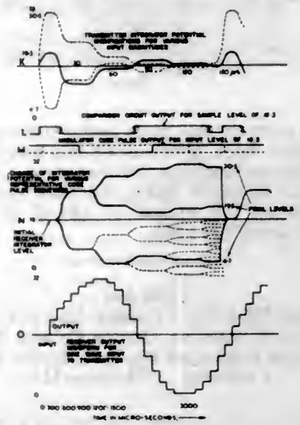
COMMUNICATION SYSTEM EMPLOYING PULSE CODE MODULATION

Alan John Henry Oxford, Christchurch, England

Application March 14, 1949, Serial No. 81,235
In Great Britain March 25, 1948
15 Claims. (Cl. 179—5.6)



1. Apparatus for deriving a code signal representing in the binary system of notation the magnitude of a given electric potential and comprising a source of reference potential, a comparison circuit coupled to said source of reference potential and to said given potential, said comparison circuit detecting; the sign of the given potential relative to that of said reference potential and producing a code pulse having one of two states depending upon the result of the detection, a circuit for generating a train of reference potentials decreasing in geometric progression with a common ratio of one half, means coupled to the output of the said comparison circuit for injecting, in response to said output reference pulses in the appropriate sense into the said comparison circuit to modify one of the potentials fed thereto and to convert this modified potential into a potential varying in amplitude step-by-step, the last named means including means coupled to said comparison circuit and controlling it to effect at each step a detection of sign to produce a code pulse of appropriate state and to change the level of the said modified potential by the next occurring reference pulse in the positive direction if the level of the modified potential was negative with respect to the unmodified potential or vice versa.

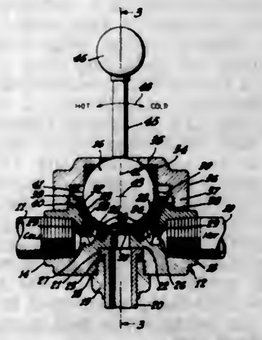


2,592,062

MIXING VALVE

Landis H. Perry, Glendale, Calif.

Application August 21, 1945, Serial No. 611,836
9 Claims. (Cl. 251—106)



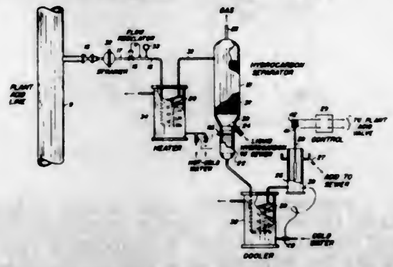
1. A valve comprising: a valve body having a general semi-spherical socket and a pair of inlets and an outlet port all opening into said socket, with the inlet ports arranged in a common diametral plane and the outlet port centered between said inlet ports; and a spherical valve element universally pivotal in said socket and having a single recess extending from side to side thereof in one direction and from an equatorial plane thereof to only one side thereof in a direction at right angles to said one direction, said recess being adapted to communicate with said inlet ports at its respective ends, and with said outlet port intermediate its ends, and being adapted to vary its ratio of communication with the respective inlet ports as the result of oscillation of the valve element about an axis perpendicular to said recess and to vary the degree of communication of said inlet ports with said outlet port as the result of oscillation about an axis at right angles to said one axis.

2,592,063

ACID ANALYZER AND CONTROLLER

Charles L. Persyn, Jr., Associated, Calif., assignor to Tide Water Associated Oil Company, San Francisco, Calif., a corporation of Delaware

Application December 15, 1949, Serial No. 133,184
8 Claims. (Cl. 23—253)



1. Apparatus adapted to condition a sample acid stream from an alkylation process and the like, comprising: a flash chamber containing a gas vent near its upper extremity and communicating with an acid-trap near its lower extremity, a sample line entering said flash chamber near its top and below said vent, said sample line being adapted at its other end to receive a sample acid stream from an alkylation process, a flow-regulator in said sample line, a heating coil in said sample line between said flow-controller and said flash chamber, a temperature sensitive element in said trap, means adapted to control heat supplied to said heating coil in accordance with the temperature of said element, an overflow outlet in said trap, a sample accumulating vessel having an overflow, a conduit connecting a lower point of said trap to a lower point of said vessel, and a cooling coil in said conduit adapted to impart a constant temperature to liquid flowing therethrough, said vessel being adapted to be positioned so that liquid in said trap will flow by gravity into and overflow said vessel.

2,592,064

HOLDER FOR STICKS

Gunnard P. Peterson, Naugatuck, and Edward Noyack, Seymour, Conn., assignors to The Risdon Manufacturing Company, Naugatuck, Conn., a corporation of Connecticut

Application May 25, 1948, Serial No. 29,131
2 Claims. (Cl. 206—56)

2. In a holder for sticks, an elevator to carry the stick, a body shell in which the elevator is reciprocable and comprising at least one unitary tube to guide the elevator as the elevator is reciprocated back and forth therein and open at one end to permit the stick to be projected from said tube, a base shell comprising at least one unitary tube open at one end, an auxiliary tube open at both ends, the said three tubes being substantially aligned with each other, a substantially flat elongated member fastened to the elevator and projecting from the first-mentioned tube through the auxiliary tube and into the second-mentioned tube, said member being serrated at its edges, and a cap to set over the first-mentioned tube to close said open end thereof, said auxiliary tube interfitting with one of the first-mentioned two tubes and being fixed thereto against both longitudinal and rotary motion with respect thereto, but being rotatable with respect to the other of said two tubes, said auxiliary tube and said other of the first-mentioned two tubes having one a spiral connection with the serrated edges of said elongated member and the other a diaphragm provided with a slot in which the elongated member is reciprocable but non-rotatable to reciprocate the elevator in the first-mentioned tube, said spiral connection and slot being located substantially at the end of the first-mentioned tube which is opposite said open end thereof, and said first-mentioned tube setting in one of the last two mentioned tubes and having an external diameter less than the external diameter of the tube into which it sets so that the latter tube provides a stop for the cap when the cap is set onto the first-mentioned tube.

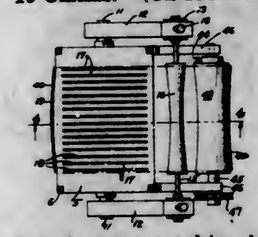


2,592,065

CIGAR-MAKING MACHINE

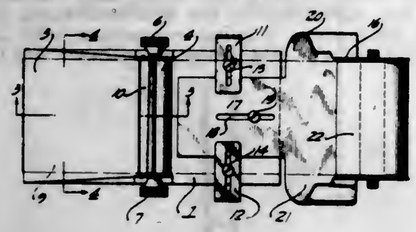
Albert L. Petri, San Francisco, Calif., assignor to Petri Wine Company, San Francisco, Calif., a corporation of California

Application January 24, 1949, Serial No. 72,447
19 Claims. (Cl. 131—52)



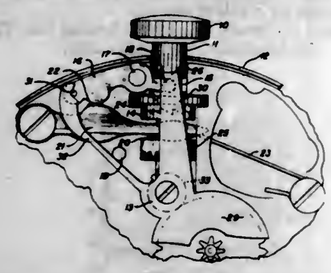
1. In a cigar forming machine having a head plate and a flexible apron extending across said head plate and including a portion extending beyond said head plate: a roller engaging the projecting portion of said apron for supporting a loop for tobacco in said portion adjacent one edge of said plate; means supporting said roller for drawing said loop over said plate and for rolling the tobacco therein; and a concave roller in engagement with said apron for varying the tension on said loop and portion during said movement of said loop.

2,592,066
MEMO PAD ATTACHMENT FOR TELEPHONES
Arthur J. Pratt, Long Beach, Calif., assignor to A & J Machine Engineering Co., Inc., Long Beach, Calif., a corporation of California
Application October 24, 1949, Serial No. 123,199
3 Claims. (Cl. 281—11)



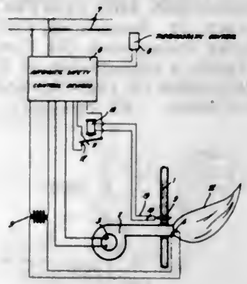
2. A memo pad attachment for telephones comprising a sheet metal base plate, each longitudinal edge of the base being curved downwardly and inwardly, one end of said base being bent upwardly at an angle to form a table, a box extending transversely of the base and fixedly attached thereto, said table portion being fixedly attached to the box at one end thereof, a feed roller journalled in the box, an idler roller engaging the feed roller, said idler roller being journalled in the box, a paper frame, means adjustably securing the paper frame to one end of said base, a clip adjustably secured to said base, one on each side of the base and between the paper frame and the box, each side of the paper frame being curved upwardly and inwardly to partially encircle one end of the telephone base, said telephone base being held between the paper frame, said clips, and said box.

2,592,067
STEM WINDING AND SETTING MECHANISM
Arthur L. Rawlings, Waterbury, Conn., assignor to The United States Time Corporation, Waterbury, Conn., a corporation of Connecticut
Application February 17, 1950, Serial No. 144,720
5 Claims. (Cl. 58—68)



1. In a timepiece having a mechanism for winding the mainspring and setting the hands, a stem projecting outside the case for manually operating said mechanism, a movable element which retains the said stem in place and a minute wheel retaining plate; a fixed member having an inclined face and formed as an extension of said retaining plate, said fixed member being inoperative while said mechanism is positioned for winding, and adapted to engage said element while said mechanism is positioned for setting the hands, whereby said element is locked into positive engagement with said stem.

2,592,068
OIL BURNER SAFETY CONTROL SYSTEM, INCLUDING A FLAME RESPONSIVE THERMOCOUPLE STRUCTURE
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., a corporation of California
Original application November 5, 1940, Serial No. 364,356, now Patent No. 2,466,274, dated April 5, 1949. Divided and this application July 19, 1948, Serial No. 39,477
5 Claims. (Cl. 158—28)



1. In a furnace system: wall means defining a furnace chamber; a burner communicating with said chamber; means for supplying fuel to said burner for burning as a flame; and means for controlling said fuel supplying means, including a thermocouple structure comprising a pair of conductors extending through said chamber wall and into said furnace chamber; means carried by said furnace chamber wall for mounting said conductors so that the inner ends of said conductors project only slightly into said chamber and lie closely adjacent said wall and to each other such that said inner ends will be substantially equidistant from said burner flame, and the other ends of said conductors project exteriorly of said wall; said burner being arranged to direct the fuel so as normally not to reach said inner ends; a metal element joining the said inner ends of said conductors, said metal element forming with said joining inner ends a pair of junctions and said metal element being thermoelectrically dissimilar from the conductors which it respectively joins, said conductors each being of substantially the same material and length, but one of said conductors having a greater cross sectional area than the other of said conductors, such that heat is dissipated dissimilarly from said conductors to said mounting means, said chamber wall, and the exterior of said chamber forming means, in order to maintain one of said junctions at a lower temperature than the other of said junctions.

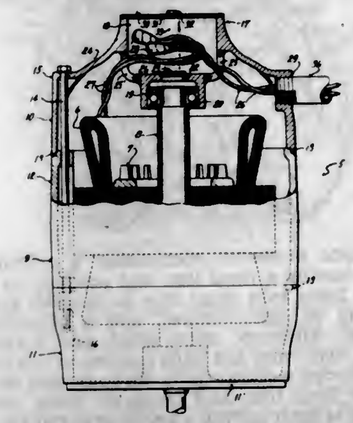
2,592,069
FLUOROCARBON VINYL ESTERS AND POLYMERS
Thomas S. Reid, New Canada Township, Ramsey County, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application March 5, 1951, Serial No. 214,025
15 Claims. (Cl. 260—89.1)

1. Polymerizable fluorocarbon vinyl esters having the formula:

$$R_fCOOCH{=}CH_2$$

where R_f is a saturated fluorocarbon group containing 3 to 17 carbon atoms.

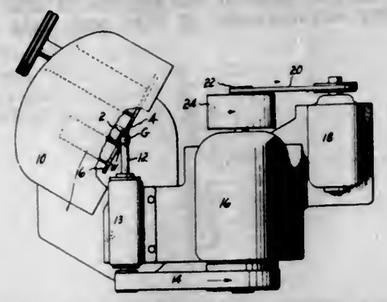
2,592,070
VERTICAL SANITARY MOTOR
Russell I. Robinson, Milwaukee, Wis., assignor to The Louis Allis Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 3, 1950, Serial No. 177,431
3 Claims. (Cl. 172—36)



1. An electric motor of the type having a rotor and stator confined in a housing including opposite end bells, and a rotor shaft journalled in bearings carried by said end bells; characterized by the fact that one of said end bells has means formed integrally therewith providing a pair of inner and outer cup-like members coaxial of the rotor shaft and disposed back to back so as to have a common bottom wall substantially normal to the axis of the rotor shaft and overlying said end thereof, the side wall of the inner cup-like member extending axially inwardly from said common bottom wall and encircling said end of the rotor shaft in spaced relation thereto to provide a seat for the bearing in which said end of the rotor shaft is journalled, and the side wall of the outer cup-like member extending both axially inwardly and outwardly from the adjacent portions of said end bell and defining conjointly with said bottom wall a junction box to house the connections between electrical conductors connecting the motor windings with a source of current, and said outer cup-like member being apertured at areas thereof inside the end bell to communicate the interior of the junction box with the interior of the housing so as to enable electrical conductors to extend from the junction box to the motor windings in the interior of the housing.

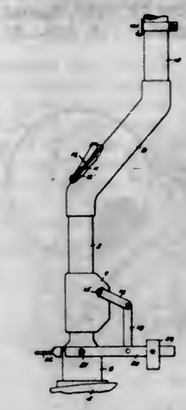
2,592,071
ABRADING MACHINE
Gilbert A. Russell, Cranford, N. J., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 25, 1949, Serial No. 78,255
2 Claims. (Cl. 51—103)

2. In a machine for grinding and honing a spherical zone on the interior of a hollow work piece by a single grinding wheel at one set-up, means for rotating the work on its axis, a cup-shaped grinding wheel having its axis passing through the center of curvature of the spherical zone at a point outside of the work piece and located at an acute angle to the work axis, means for initially rotating the grinding wheel at grinding speed, and means for thereafter reducing the surface speed of the wheel substantially below the surface speed of the work to make the same wheel hone the work in a cross-hatch pattern wherein the honing marks extend



more nearly circumferentially of the spherical surface than crosswise thereof.

2,592,072
GAS BY-PASS FOR CRUDE OIL STORAGE TANKS
Wilburn C. Sanders, Grandview, Tex.
Application August 26, 1947, Serial No. 770,705
1 Claim. (Cl. 137—69)

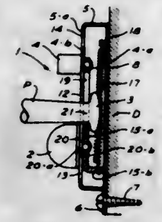


A test pipe for attachment to an oil storage tank comprising a valve housing secured on the outlet end of the test pipe, a valve seat within the housing, an outlet pipe extending into the top of the housing terminating a substantial distance above the valve seat, and through which fumes pass when the valve is open, a shaft extending into the side of the housing, a valve secured to the shaft within said housing, engageable with the valve seat closing said outlet pipe, an arm pivotally mounted on the test pipe intermediate the ends of the arm, linkage connected between the shaft and pivoted arm, a pedal formed on one end of the arm effecting movement of the valve upon downward movement of said pedal, and a weight on the opposite end of the arm for moving the arm in one direction, returning the valve to its normal closed position.

2,592,073
DOOR STOP MECHANISM
Emil Schwarzkopf, Los Angeles, Calif.
Application December 31, 1946, Serial No. 719,515
11 Claims. (Cl. 292—175)

1. In a door stop mechanism adapted to cooperate with a post that is relatively movable with respect thereto: a supporting frame; a

plate mounted on said frame and movable with respect thereto; a bumper supported on the plate, said bumper in one position of said plate limiting advancement of said post, said plate



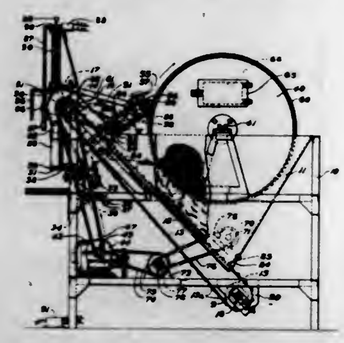
having a latching surface adapted to be engaged by said post; and manually operable means for moving said plate to render effective either the bumper or the latching surface.

2,592,074

WEIGHING AND PACKAGING APPARATUS

Frank Slusher, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application August 29, 1946, Serial No. 693,719
4 Claims. (Cl. 249—4)



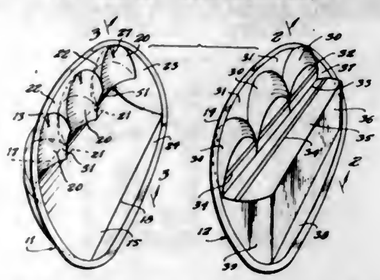
1. Apparatus for weighing and packaging resilient elastic rubber bands, said apparatus comprising a rotatable drum having an apertured peripheral surface for depositing the bands, a hopper enclosing the lower part of said drum, a conveyor belt having an inclined reach arranged along an inclined wall of the hopper to receive and elevate the bands, a rotatable paddle wheel located above the conveyor belt at said reach for trimming the load of bands on said belt, a funnel for receiving bands from the upper end of said reach, a jet at said funnel opposed to the travel of bands at the upper end of said reach, a high pressure air supply connected to said jet, a scale beam having a pan below said funnel for supporting a container to be filled, a valve controlling said jet, means for driving said drum, said belt and said paddle wheel, a switch controlled by movement of said scale beam under load of a filled container for stopping said driving means and said paddle wheel, a tamper in alignment with said funnel and operating therethrough to tamp the filled container, and means operated by said switch for supplying air to said jet to bias the advance of bands by said conveyor belt and to effect a retreat of bands at the delivery end of said conveyor belt and operating said tamper simultaneously with stopping of said driving means.

2,592,075

LIGHT PROJECTOR

Harold E. Smith, Lykens, Pa.

Application June 23, 1950, Serial No. 169,869
20 Claims. (Cl. 313—114)



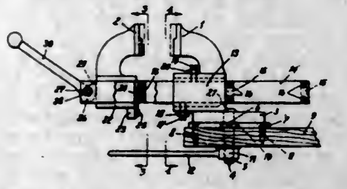
1. A light projector comprising a cylindrical reflector having a focal line and adapted to project rays from said focal line in parallel planes, a plurality of light sources, and a plurality of additional reflectors constructed and arranged to reflect rays from the light sources to the cylindrical reflector substantially through and on one side of its focal line, said projector being formed in two parts each having a peripheral flange, juxtaposed and sealed together.

2,592,076

VISE WITH ANTITILTING MEANS FOR THE MOVABLE JAW

Viktor Spinnler, Basel, Switzerland

Application December 23, 1947, Serial No. 793,370
In Denmark February 8, 1947
2 Claims. (Cl. 81—26)



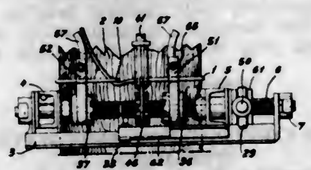
1. In a vise, a guide having an elongated aperture therethrough, a fixed jaw on said guide, a slide movably mounted in the elongated aperture in said guide, a movable jaw slidably mounted on said slide in opposed relationship to the fixed jaw, a lever pivoted on said slide, an eccentric formed on the lever and in operative engagement with the movable jaw, and anti-tilting means comprised by at least two set screws positioned in alignment transversely of the aperture in the guide and extending upwardly through the bottom of the latter adjacent the end facing the movable jaw and contacting the bottom of the slide, at least two other set screws also positioned in alignment transversely of the aperture in the guide, said other set screws extending downwardly through the top of the guide and being horizontally displaced from the first set screws in a direction away from the movable jaw, and contacting the top of the slide, whereby tilting movement of said slide and movable jaw away from the fixed jaw is prevented during work clamping movement of said lever, and a transversely positioned guide rib formed on the bottom of the aperture and guide adjacent the end which is opposite the end facing the movable jaw so as to limit a reverse tilting movement when said movable jaw and slide are being manually shifted either toward or away from the fixed jaw.

2,592,077

MEANS FOR HOOPING RAILWAY SLEEPERS

Albert Paul Streit and Michel Jacques Max Streit, Cachan, France; Michel J. M. Streit temporary administrator of the estate of Albert Paul Streit, deceased

Application August 9, 1945, Serial No. 609,849
In France February 2, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 2, 1963
7 Claims. (Cl. 254—67)



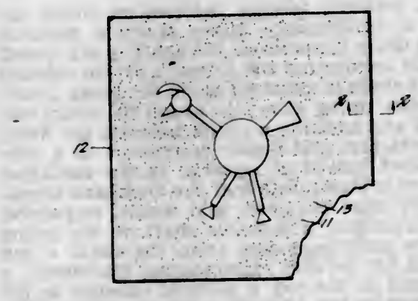
1. An apparatus for hooping a railway sleeper comprising a frame, a pair of spaced apart, substantially parallel jaws to engage the said sleeper therebetween, supported from, and relatively movable along said frame, a pair of spaced apart substantially parallel gripping members movably supported from said frame and adapted to engage spaced portions of the wire to thereby move the said parts of the wire portions towards one another to form a hoop about the sleeper, means for relatively moving said jaws along said frame, and means for independently moving said gripping members along said frame.

2,592,078

EDUCATIONAL FIGURE TOY DEVICE

Richard P. Taylor and Fred S. Taylor, Minneapolis, Minn.

Application March 24, 1948, Serial No. 16,724
1 Claim. (Cl. 46—22)



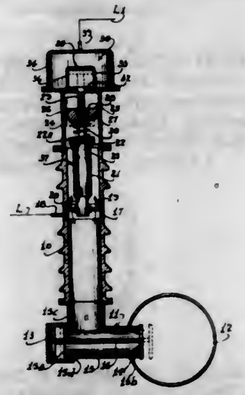
An educational device having in combination, a base member having a flat top surface, a sheet of flexible fabric material overlying all of said surface and secured to said member about the sides of said member, said sheet having a non-drying adhesive coating on its top side, an adhesive coating covering the underside of said sheet to cause the same to adhere to said surface when said sheet is pressed against said surface and a plurality of figures of different shapes having non-adhesive flat bottoms adapted to be placed on said top side and pressed thereagainst so as to removably adhere to said non-drying adhesive coating and cause said sheet to adhere to said flat top surface of said base member whereby when said figures are removed from said sheet said sheet will not be pulled away from said flat top surface of said base member.

2,592,079

COMPRESSED GAS OPERATED CIRCUIT BREAKER

Hans Thommen and Arnold Amstutz, Baden, Switzerland, assignors to Aktiengesellschaft Brown, Boveri & Cie, Baden, Switzerland, a joint-stock company

Application July 25, 1949, Serial No. 106,686
In Switzerland July 31, 1948
7 Claims. (Cl. 200—148)



1. A compressed gas circuit breaker comprising, a switch contact chamber, a pair of normally closed switch contacts in said chamber, said contacts being separated by compressed gas upon admission thereof to said chamber and maintained in said separated state by the gas pressure in said chamber, a source of compressed gas, valve means for establishing communication between said chamber and gas source, valve means controlling relief of the gas pressure from said chamber, a pressure storage auxiliary chamber communicable only with said switch contact chamber, a piston cooperative with a movable one of said contacts for effecting reclosure thereof, opposite sides of said piston being continuously exposed respectively to the gas pressures in said switch contact and auxiliary chambers, and means for charging said auxiliary chamber with compressed gas from said switch contact chamber whereby to effect movement of said piston in the contact reclosing direction by the gas pressure in said auxiliary chamber forthwith upon relief of the gas pressure from said switch contact chamber.

2,592,080

METHOD OF MOLDING DISHLIKE ARTICLES

Howard H. Thompson, Minneapolis, Minn., assignor to Weavewood, Inc., Minneapolis, Minn., a corporation of Minnesota

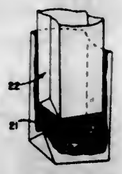
Application June 6, 1947, Serial No. 753,047
4 Claims. (Cl. 154—83)



1. The method of molding sheet material into dish-like articles free from wrinkles at the curved portions thereof which comprises, providing a plurality of wood veneer strips impregnated with

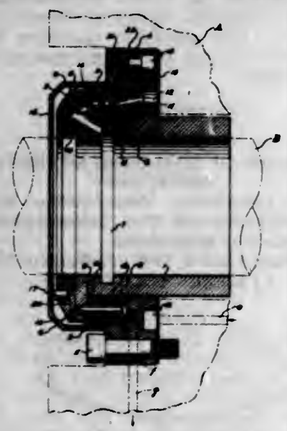
heat reactant resin, loosely interweaving said strips into a mat having the interwoven strips movable longitudinally and transversely relative to each other, providing a resin impregnated creped paper filler sheet, assembling the mat and filler sheet, imparting a dish-like form to the assembled mat and filler while maintaining selected strips in said relatively movable condition and subjecting the thus formed assembly to molding under conditions of resin reactant heat and pressure.

2,592,081
METHOD OF MAKING CONTAINERS
Harry A. Toulmin, Jr., Dayton, Ohio, assignor to The Commonwealth Engineering Company of Ohio, Dayton, Ohio, a corporation of Ohio
Application March 26, 1949, Serial No. 83,712
4 Claims. (Cl. 93—35)



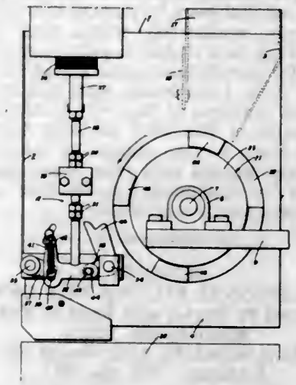
1. In a method of making a bag, the steps of forming a flexible sheet material into a bag of the desired shape; spraying a rubber latex-gas mixture onto the inner walls of said preformed bag whereby a layer of rubber foam is formed on said walls; placing an inner lining of flexible sheet material onto said foam layer to form a double wall bag; and applying heat to both the inner and outer walls of said bag assembly whereby said rubber foam is cured into a sponge material and the inner and outer sheet layers are integrally united with said sponge.

2,592,082
FLOATING SHAFT SEAL
William E. Trumpler, Olean, N. Y., assignor to Clark Bros. Co., Inc., Olean, N. Y., a corporation of New York
Application November 6, 1948, Serial No. 58,665
5 Claims. (Cl. 286—15)



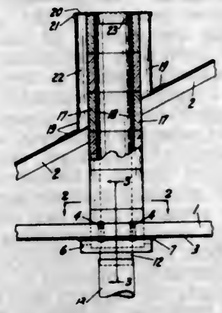
1. In a machine of the class described and including a wall having a through opening and a rotatably mounted shaft extending through said opening: means providing a seal effective about said shaft at said opening, and including a sleeve closely fitting upon said shaft and having an annular head, and a ring disposed about said sleeve to bear endwise effectively between said wall and said head portion, the endwise bearing surfaces of the parts being spherical, said parts having passageways for directing lubricant to said shaft, intermediate the ends of said sleeve, by way of said ring and thence said sleeve, said passageways including a pair of equalizing passages annular with said ring at opposite bearing faces thereof, each being formed by an annular cavity in the ring and a cooperative annular cavity in the corresponding part having bearing therewith, and also including a longitudinal passageway in said ring interconnecting said annular passages.

2,592,083
FEED CONTROL FOR AUTOMATIC WEIGHERS
Edward J. Vagim, Fresno, Calif.
Application July 26, 1946, Serial No. 686,586
1 Claim. (Cl. 249—42)



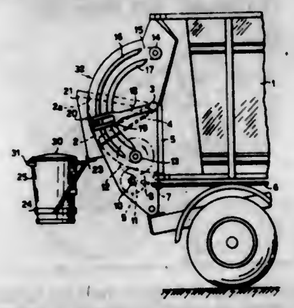
In a material feeding mechanism which includes a continuously driven shaft, a material feeding drum turnable on the shaft, a slip clutch normally connecting the drum in driven relation with the shaft, a container below the drum, a normally open swing gate into which the drum discharges and forming a chute between the drum and container, and means responsive to a predetermined weight of material in the container operative to stop rotation of the drum and simultaneously close the gate; said weight responsive means including a turnable shaft on the swing gate, the gate depending from the shaft, a rod mounted for vertical reciprocating movement, a cross head on the rod, a solenoid effective to lift the rod when the solenoid is energized, such energization being effected in response to the said predetermined weight of material delivered into the container, a lever arm on the gate shaft, one end of the lever arm being linked to the cross head, a second lever arm pivoted adjacent the drum, a stop fixed to said second lever arm, stop lugs on the drum, the lifting of the rod being effective to cause the cross head to operate the lever arms, such operation causing the first lever arm to swing the gate to closed position and the second lever arm to swing the stop thereon into the path of one of the stop lugs on the drum; the linkage connection between the first named lever arm and said crosshead comprising a pin on said lever, the crosshead having a vertical slot in which the pin rides, and a spring between the crosshead and pin acting on the latter to normally hold the same at the top of the slot.

2,592,084
CHIMNEY AND MEANS FOR SUPPORTING SAME
Richard F. Van Alstyne, Davenport, Iowa
Application July 16, 1946, Serial No. 683,947
7 Claims. (Cl. 72—94)



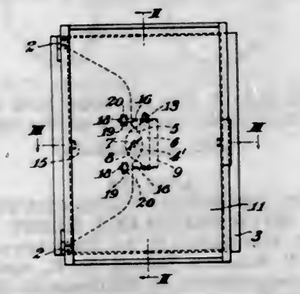
1. A construction unit for a flue of the character described comprising a body of thermal insulating material of a character such that transmission of heat and radiation thereof to adjacent combustible materials will be reduced to a point that combustion of the said materials will be substantially impossible due to fire in the flue. a refractory lining about which the body is molded, and a reinforcing metal jacket of expanded metal within which the thermally insulating body is molded.

2,592,085
REFUSE VEHICLE
Hubertus Josephus van Doorne, Deurne, Netherlands
Application August 14, 1948, Serial No. 44,312
In the Netherlands August 19, 1947
11 Claims. (Cl. 214—67)



1. A refuse vehicle provided with a receptacle, a receiving hopper connected to said receptacle, a device for lifting and tilting dust bins placed on said device and a device for compressing the refuse into said receptacle, said lifting device comprising a horizontal shaft mounted in said receiving hopper and adapted to be oscillated, a pressure plate for compressing the refuse fixedly connected to said horizontal shaft, a driving means for operating said pressure plate, a rocking member adapted to be swung upwardly about said shaft and to be picked up by and lifting during part of the upward movement of said pressure plate, a bin holder adapted to receive a dust bin and pivotably connected to said rocking member by means of a pivot shaft, an arm on said pivot shaft, and a link connected with the free end of said arm and adapted to swing on a pivot mounted on the receiving hopper, the axes of said horizontal pivot shaft and of said link pivot on said hopper being fixed and non-coincident so that the tilting movement of the bin holder is greater than that of the rocking member.

2,592,086
MEANS ADJUSTABLY SUPPORTING A MIRROR FROM A CABINET OR OTHER BASE MEMBER
Harry Stanley Viney, Kingston-on-Thames, England
Application December 8, 1947, Serial No. 790,390
In Great Britain January 6, 1947
2 Claims. (Cl. 88—96)

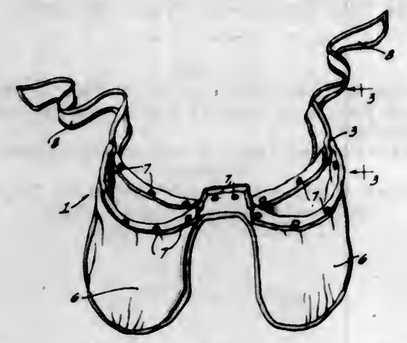


1. In a support, the combination, comprising, a cabinet having a rectangular vertical opening, a primary linkage member hinged to the cabinet adjacent the opening to swing about a vertical axis, a secondary linkage member pivoted to the primary member about a horizontal axis, a mirror pivoted to the second member about an axis lying in a vertical plane, releasable interengaging means on the first member and mirror preventing pivoting of the second member on the first member, a pair of substantially vertically aligned adjustable studs on the primary member, one on either side of the horizontal pivot for the secondary member and a pair of cams extending at right angles to the mirror pivot axis and spaced a distance equal to the spacing of the studs each engaging a stud and rigid with the back of the mirror, the cams having a central edge parallel to the mirror and merging into two side-edges perpendicular to the mirror, the central edge being closer to the mirror pivot axis than the side edges whereby the cams in the final turning of the mirror about its pivot axis to close the cabinet opening by the mirror, center the mirror about the pivot axis of the secondary linkage member on the primary member despite the last named pivot axis being approximately at right angles to the plane of the mirror.

2,592,087
CLOTHESPIN HOLDER OF APRON TYPE
Nancy K. Wallace, Los Angeles, Calif.
Application September 20, 1948, Serial No. 50,201
2 Claims. (Cl. 2—52)

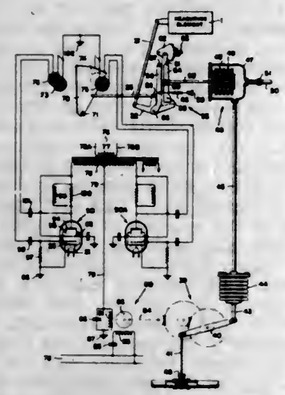
1. An apron clothespin holder comprising a frame formed of wire, said frame being arcuate in shape and adapted to substantially encircle the waist, a pair of wire loops, means rigidly attaching said loops to the frame and one on each side of the frame, said loops projecting horizontally from the frame, and said loops being positioned one on each side of the center of the frame, a fabric pocket depending from each of the loops, means securing the upper ends of each of the pockets to one of the loops and to the frame,

and a tubular tie end extending from each of the pockets, each end of the frame extending par-



tially into one of the tie ends, said ties being adapted to encircle the waist of the wearer.

2,592,088
ELECTRIC PROPORTIONING CONTROLLER WITH PNEUMATIC RESET
William H. Wannamaker, Jr., Flourtown, Pa., and Donald P. Eckman, Ithaca, N. Y., assignors, by mesne assignments, to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application March 31, 1948, Serial No. 18,234
11 Claims. (Cl. 318—32)

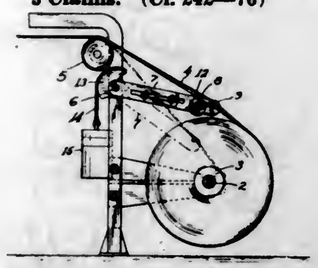


6. A motor control circuit for use with an alternating current supply source providing alternating current of predetermined frequency, including, a pair of electronic valves having normally equally conductive output circuits connected in opposite phase relation to said alternating current supply source and each having an input circuit, an oscillatory circuit associated with the input circuits of said valves to vary their relative conductivities, an alternating current motor having a winding coupled to said common output circuit of said valves and a winding connected to said alternating current source so that said motor rotates in one direction or the other when one of said input circuits is rendered conductive, a pump driven by said motor to move air, and a follow-up bellows operated by the air moved by said pump and causing said input circuit which has been rendered conductive to become non-conductive.

2,592,089
MANUFACTURE OF MERCAPTANS
Paul F. Warner, Borger, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application August 8, 1949, Serial No. 109,240
9 Claims. (Cl. 260—609)

1. An improved process for the production of stable aliphatic mercaptans of high molecular weight which comprises subjecting an olefinic hydrocarbon material boiling in the range of 320° F. to 400° F. and comprising a plurality of isomeric olefins and oxygen-containing compounds to the action of a solid adsorbent material selected from the group consisting of silica gel, activated charcoal and activated clay at a temperature of from zero to 150° F. whereby said oxygen-containing compounds are removed from said olefinic hydrocarbon material, reacting a resulting treated olefinic hydrocarbon material, directly and before any further substantial amount of oxygen-containing compounds can form in said hydrocarbon material, with hydrogen sulfide in the presence of a mercaptan-synthesis catalyst and in amounts to give a mol ratio of hydrogen sulfide to olefin between about 1.5:1 to 2:1 at a pressure of about 500 to 1500 pounds per square inch, a temperature of about 100 to 400° F. and a flow rate such as to effect a high per pass conversion of said isomeric olefins contained in said olefinic hydrocarbon material to stable aliphatic mercaptans having the same number of carbon atoms per molecule as said isomeric olefins, and recovering said mercaptans as a product of the process.

2,592,090
PAPER WINDING AND SMOOTHING DEVICE
Allen E. Weaver, Wellsburg, W. Va., assignor of one-half to Hammond Bag & Paper Company, Wellsburg, W. Va., a corporation of West Virginia
Application August 30, 1946, Serial No. 693,964
3 Claims. (Cl. 242—76)

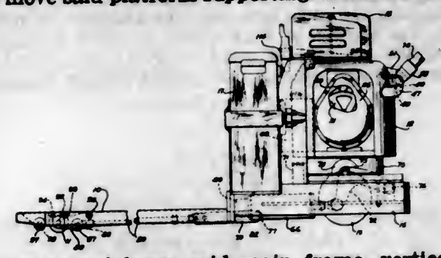


1. The combination with a reel on which a flexible web is being wound, of means under the web for generating a transverse crown in the web convex to the surface of the roll being formed, which crown extends from the reel to said means, and means for yieldably urging said first means upwardly against the web and in a direction outwardly from the center of the reel.

2,592,091
MOTORIZED HAND TRUCK
Elverton W. Weaver, Cleveland, Ohio, assignor to Towmotor Corporation, Cleveland, Ohio, a corporation of Ohio
Application August 11, 1948, Serial No. 43,751
11 Claims. (Cl. 180—13)

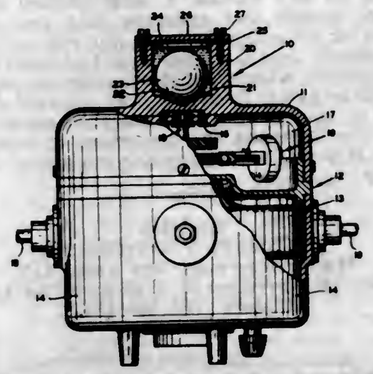
11. A hand truck comprising a main frame including a load carrying platform, linkage on said platform mounting platform supporting wheels, a subframe with a drive wheel, annular means

rotatably mounted on said subframe, linkage pivoted respectively to said main frame, said annular means and the linkage mounting said platform supporting wheels; hydraulic means connected to said linkage for rocking said linkage to move said platform supporting wheels in order



to raise and lower said main frame, vertically extending means on said main frame having an extension disposed above said subframe, a bearing yieldably supported on said extension, and a guide member on said subframe slidably engaged in said yieldably supported bearing.

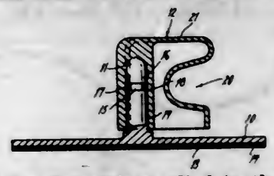
2,592,092
NUTATION DAMPING DEVICE
Leonard Wechsler, South Bend, Ind., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 11, 1946, Serial No. 646,777
11 Claims. (Cl. 74—5.5)



1. The combination comprising a casing, a gyroscope rotor within said casing spinning about a vertical axis, means for mounting said casing for angular movement about mutual perpendicular horizontal axes normal to the rotor spin axis, an enclosure carried by said casing coaxial with the rotor spin axis, a mass within said enclosure free to oscillate about an axis coaxial with said spin axis, and fluid means within said enclosure surrounding said mass for damping the oscillations thereof.

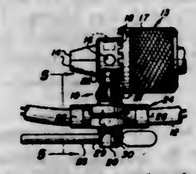
2,592,093
HAND SANDER
Charles W. Wernts, Warrenton, Mo.
Application May 4, 1950, Serial No. 159,943
3 Claims. (Cl. 51—186)

1. A hand sander including a disk having an abrasive face; a pintle secured to the disk having an annular compressible spring carried in a groove on the upper end of the pintle; and a handle adapted to fit in the palm of a hand and receive a thrust therefrom, with a boss on one side bored to receive the pintle and retained on the pintle by means of the compressible spring bearing against the sides of the bore; the handle being connected with the disk at a point substantially to one side of the handle, whereby the



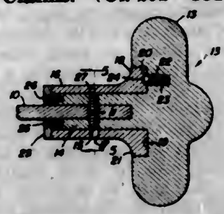
median of the thrust is applied to the disk substantially to one side of its center, thereby causing the disk to rotate with respect to the handle when the disk is pushed along a surface to be abraded.

2,592,094
CHUCK KEY HOLDER FOR DRILL MOTORS
Paul M. Willenbring, St. Cloud, Minn.
Application May 17, 1950, Serial No. 162,566
4 Claims. (Cl. 248—1)



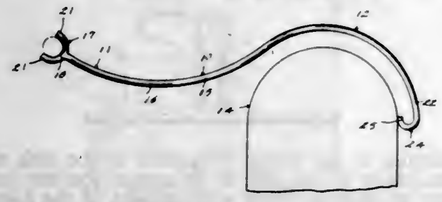
1. Holding means for a chuck key having a shank, said means comprising a bearing through which said shank is adapted to extend, and means carried by the bearing and formed to receive and be secured to an electric cable to support the bearing thereon said last named means comprising a pair of spaced elongate members between which the bearing is positioned, said elongate members being of a character to be bent around and to retain their bent form on the cable.

2,592,095
KNOB EQUIPPED DOOR HANDLE CONSTRUCTION
Philip S. Winn, New Orleans, La.
Application July 11, 1949, Serial No. 104,115
2 Claims. (Cl. 292—351)



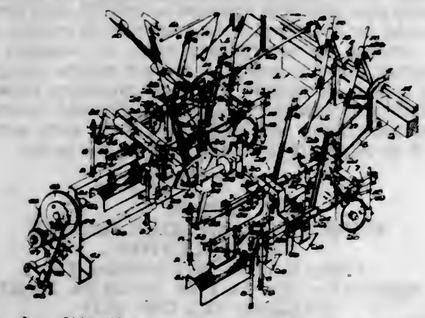
1. As a new article of manufacture, a knob having a reduced integral centrally disposed shank on one side, said shank being elongated and having a screw accommodating hole, a washer abutting and detachably fixed on the inward end of said shank, said washer being of a diameter greater than the outside diameter of said shank and serving as an abutment and retaining member, said knob having an annular recess surrounding the inward end of said shank, an elongated rotary sleeve surrounding the shank between the washer and knob and having an outstanding flange at its outward end fitting rotatably in said recess, said sleeve having a single hole registrable with said screw accommodating hole.

2,592,096
TIRE CHAIN APPLYING TOOL
John C. Young, Pittsburgh, Pa.
Application February 9, 1948, Serial No. 7,029
1 Claim. (Cl. 81—15.8)



In a tire chain applying tool, an elongated substantially S-shaped handle portion of circular cross section at least one portion of which is of a radius of curvature sufficient to overlie the cross sectional configuration of a vehicle tire, and an applying member for tire chains at the extremity of said one portion, said member comprising a bifurcated element co-planar with said S-shaped handle, the legs of which are circular in cross section and the bight of which is semicircular for a universal tilting engagement with a ring of the chain to be applied.

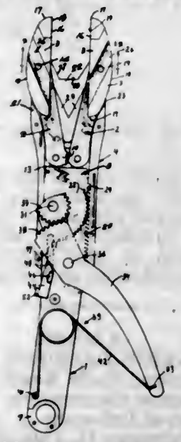
2,592,097
TRACTOR-MOUNTED COTTON CHOPPER
Cousby R. Younger, Lilbourn, Mo.
Application September 11, 1947, Serial No. 773,334
6 Claims. (Cl. 97—19)



3. A cultivating machine for a row of growing plants comprising a vehicle frame, a longitudinally extending shaft at each side of the frame, means for oscillating said shafts, a longitudinally extending plow beam positioned at each side of each shaft, means hanging said plow beams from the frame in vertically adjustable position, a carriage mounted on each pair of adjacent beams and journaling one of said shafts, means for moving each carriage to selected adjusted positions longitudinally of its beams, and a chopping blade depending from each shaft for swinging movement as the shaft oscillates.

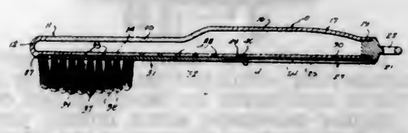
2,592,098
PLIER-WRENCH WITH GUIDED JAWS
John B. Zimdars, San Francisco, Calif.; Hilda Grant executrix of said John B. Zimdars, deceased
Application July 1, 1946, Serial No. 680,559
5 Claims. (Cl. 81—78)

5. In a plier-wrench of the character described, a hollow handle, a pair of gripping jaws having gripping faces opposite and parallel to one another, an arm pivoted to each jaw and pivoted in the end of said handle, a hollow sleeve slidable over said handle and over said arms and said jaws, cams on the inner face of said sleeve adjacent said jaws and converging toward said handle, said jaws having cam grooves thereon at the same angles as said cams and being slidably engaged by said cams to guide said jaws toward one another and away from one another according to the sliding of said sleeve on said handle, a toothed edge on the inside of said sleeve, a geared mechanism inside of said hollow handle engaging



the teeth of said sleeve edge for moving said sleeve on said handle, a lever pivoted in said hollow handle and engaging said gear mechanism for actuating the same, and resilient means to normally urge said lever away from said handle to a position where said sleeve is drawn over said handle and away from said jaws, a detent slidably held in said handle and movable against said lever for arresting the movement of said lever away from said handle under the action of said spring.

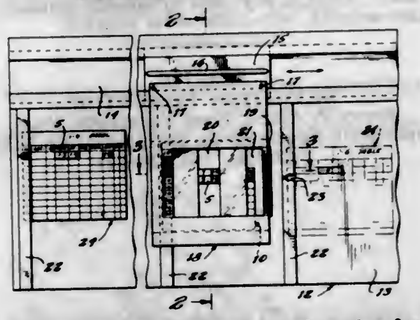
2,592,099
FOUNTAIN TOOTHBRUSH
Morris Ackerman, New York, N. Y.
Application November 22, 1949, Serial No. 128,711
2 Claims. (Cl. 15—131.1)



1. In a fountain tooth brush, an elongated hollow handle section adapted to contain dentifrice, said handle section having a wall formed with a longitudinal slide groove and with first ports opening into the groove, said first ports being located intermediate the ends of and substantially spaced from the ends of said groove, a brush section comprising an elongated plate shorter than said slide groove and confined therein for longitudinal sliding movement along the brush section, said plate being formed with second ports adapted to be registered with the ports of the handle section, said brush section being otherwise imperforate and being slidable in said groove in one direction away from its intermediate position to its brushing position in which the ports of the brush section are closed by the said wall of the handle section and the ports of the handle section are closed by an imperforate portion of the brush section, an end of said groove opening through one end of said handle

section, and said brush section being slidable in said groove away from its intermediate position in a direction to pass said brush section plate through the open end of the slide groove and remove the brush section from said handle section, said one end of the handle section having a tubular filling extension, and a removable plug closing said filling extension, said plug having a peripheral flange closing the open end of the slide groove and preventing unwanted removal of the brush section from the handle section.

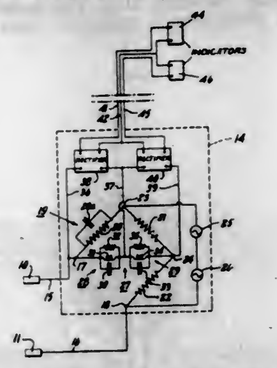
2,592,100
STOCK RECORDING SYSTEM
Alphons Adler, New York, N. Y.
Application May 13, 1950, Serial No. 161,869
2 Claims. (Cl. 40—19.5)



1. In a stock recording system a board, a frame longitudinally slidable along the board to a plurality of stations, said frame having a back portion hinged thereto, said frame and said back portion having each at least one window aligned to each other, an order blank adapted to be inserted into the frame on top of its back portion, a number of stations disposed longitudinally along the board, and a stock card set in each of said stations in such manner that the empty line of said stock card appears opposite a marker provided in each station, the markers of each pair of adjacent stations are one line apart in order to set the next empty line of the stock card in the following station one line below the next empty line of the stock card in the prior station, a plurality of stock number labels secured to the order blank adjacent to its open window and each of said labels being attached to the corresponding stock card in the respective stations of the board.

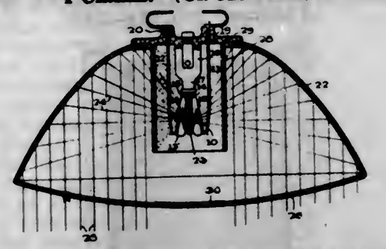
2,592,101
ELECTRICAL LOGGING
Charles B. Aiken, Houston, Tex., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Original application February 4, 1942, Serial No. 429,476. Divided and this application October 10, 1945, Serial No. 621,458
11 Claims. (Cl. 175—182)

1. Apparatus for investigating earth formations traversed by a bore hole, comprising a pair of spaced apart electrodes in the bore hole, a source of high frequency alternating current connected to said electrodes, a substantially pure resistance connected in series with said source, means connected to said resistance for providing a voltage of substantially constant magnitude and of fixed phase relation to the voltage across the resistance, means connected to the electrodes for providing a voltage of substantially constant magnitude and of fixed phase relation to the potential difference across the electrodes, means connected to said two last named means for adding the voltages produced thereby to provide a resultant voltage which is a function of the phase difference between the voltage across the resistance and the voltage across the electrodes, means



for converting said resultant voltage to an electrical value that can be transmitted through conductors of considerable length, indicating means at the surface of the earth, and an electrical circuit for conducting said electrical value to said indicating means.

2,592,102
SEALED BEAM FILAMENT LAMP WITH HEAT-REDUCING MEANS
Horace W. Alexander, Erie, Pa., assignor of one-half to American Sterilizer Company, a corporation of Pennsylvania
Application September 23, 1949, Serial No. 117,400
4 Claims. (Cl. 313—116)

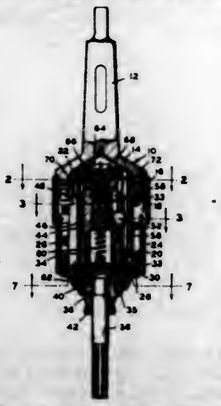


1. In a reflector lamp of the sealed beam type, in combination, a lamp filament, a sealed inclosure for said filament including a dished reflector wall and a light transmitting wall, a screen directly secured to and supported from one of said walls and positioned and shaped to lie in the path of all direct rays from the filament to the reflector and out of the path of reflected rays directed toward said light transmitting wall, said screen being formed solely of light-transmitting and heat-absorbing glass.

2,592,103
COUPLING
Uno Allan Alfredéen, Stockholm, Sweden, assignor to Aktiebolaget Svenska Precisionsverktyg, Nacka, Sweden, a corporation of Sweden
Application March 28, 1946, Serial No. 657,858
In Sweden March 28, 1945
2 Claims. (Cl. 64—23)

1. A device of the character described comprising a driving member and a driven member,

said members being mounted for relative axial movement and having radially spaced confronting bearing surfaces, a plurality of balls located in the space between said members and bearing against said surfaces, the diameter of the balls being so related to the radial extent of the space between said surfaces that the balls are under an initial prestressing pressure, and means for



transmitting torque from the driving member to the driven member comprising axially extending bearing surfaces on each of said members, said bearing surfaces being concavely curved in transverse cross section, and a ball having a radius less than the radius of curvature of said bearing surfaces located between said members to simultaneously engage said bearing surfaces.

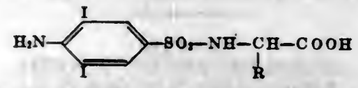
2,592,104
LIQUID FILTERING ELEMENT
Haig M. Arakelian, Peabody, Mass.
Application November 14, 1947, Serial No. 786,080
13 Claims. (Cl. 210—183)



1. In a liquid filter cartridge, a generally cylindrical filter member through which the liquid flow from one periphery of said member to the other, said member including transversely arcuate filter blocks extending from end to end of said member, each arcuate filter block consisting of a plurality of strips of paper disposed in side-to-side contact with each other and end binding strips of gauze material adhesively secured to the end edges of the strips to yieldably hold them in block form, said strips of paper being impervious to the liquid to be filtered and being embossed and having a myriad of crests and valleys, said strips of paper each having one of its longitudinal edges located at the outer periphery of the block and the other of its longitudinal edges disposed at the inner periphery of the block, and end caps secured to the ends of said member.

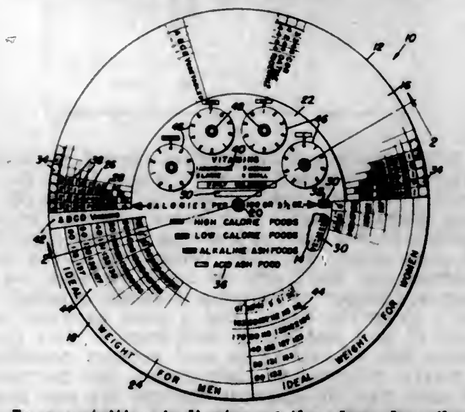
2,592,105
IODINATED AMINOPHENYLSULFONYL-AMINO CARBOXYLIC ACIDS
Sydney Archer, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application November 16, 1948, Serial No. 60,402
10 Claims. (Cl. 260—397.7)

1. A member of the group consisting of a compound having the formula



wherein R is a hydrocarbon group of from 2 to 7 carbon atoms selected from the group consisting of alkyl, aralkyl, aryl and cycloalkyl groups; and water-soluble, non-toxic salts thereof.

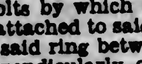
2,592,106
NUTRITION INDICATOR
Henry P. Askell, West Yarmouth, Mass.
Application November 13, 1951, Serial No. 255,909
1 Claim. (Cl. 35—74)



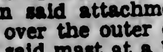
In a nutrition indicator of the class described, the combination of a circular base member having a concentric circular center portion with indicia thereon and an annular outer portion with indicia thereon, a rotatable top member pivoted centrally to said base member and including a circular center portion substantially coextensive with the center portion of the base member and a substantially semi-circular outer portion overlying the outer portion of said base member, the outer portion of the top member having at least one radial edge movable over the indicia on the outer portion of the base member and the center portion of the top member having a sight opening wherein to expose indicia on the center portion of the base member in predetermined relation to the indicia on the outer portion aligned with said radial edge.

2,592,107
SYNTHETIC AMPHOTERIC POLYMERS CONTAINING FREE AMINO GROUPS AND FREE ACID GROUPS
Julian L. Azorlosa, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 19, 1948, Serial No. 61,123
12 Claims. (Cl. 260—80.5)

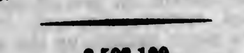
1. An amphoteric polymer comprising the hydrolyzate of a copolymer of a vinylpyridine and a compound having the formula



where R is one of the group consisting of hydrogen, alkyl, aryl, and aralkyl, and Y is one of the group consisting of —CN,



—SO_2NH_2, and —SO_3R' when X is hydrogen and is the same as X when X is one of the group consisting of



where R' is an alkyl radical and R'' is oxygen common to both the X and Y groups.

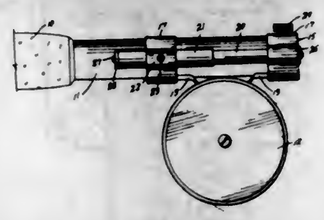
2,592,108
RETRACTILE ANTENNA MAST ASSEMBLY
Gillis E. Bader, Bellville, Tex.
Application January 27, 1950, Serial No. 140,881
2 Claims. (Cl. 189—26)



1. In a retractile antenna mast assembly including a derrick structure, guy wires for holding said derrick structure in upright position, an elongated mast comprising tubular sections joined together in end to end relationship, a fitting on one end of said mast for mounting an antenna thereon, guy wires for guying said mast in upright position, and means on said mast adjacent said fitting by which said last mentioned guy wires are attached to said mast, a sleeve slidably and rotatably receiving said mast, a flat ring encircling said sleeve intermediate the length of the latter, a pair of internally screw threaded sockets secured to said ring at diametrically opposite locations thereon, a bolt threaded each at one end one into each of said sockets and engaging said sleeve to fix the latter in said ring, said derrick structure having in its upper end recesses receiving the bolts, a loop formation on the other end of said bolts by which said first mentioned guy wires are attached to said bolts, a rod secured at one end to said ring between said sockets and extending perpendicularly outwardly from said ring, said rod having in its outer end a recess receiving one of said last mentioned guy wires carried from said attachment means adjacent said fitting over the outer end of said rod and attached to said mast at a location spaced from the end of said sleeve opposite said attaching means for supporting said mast against bending when the mast is swung about the common axis of said bolts.

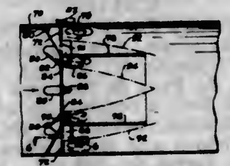
2,592,109
REEL SEAT FOR FISHING RODS
Louis A. Bean, Indian Hills, Colo.
Application May 16, 1950, Serial No. 162,270
1 Claim. (Cl. 43—22)

A device for securing a fishing reel of the type having oppositely projecting saddle extremities to a fishing rod, comprising: a slidable sleeve mounted on said rod; a fixed sleeve mounted on said rod, said sleeves having sockets for receiving the saddle extremities of said reel; a projecting boss formed on each sleeve; an inner telescoping tube projecting from the boss on one sleeve; an outer telescoping tube projecting from the boss



on the other sleeve over the first tube; and a spring positioned in said tubes and connected therewith and acting to urge said sleeves toward each other.

2,592,110
ORIFICE TYPE FLAME HOLDER CONSTRUCTION
Lloyd E. Berggren, Verona, N. J., and Alan A. Kurtis, New York, N. Y., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application May 21, 1949, Serial No. 94,575
2 Claims. (Cl. 60—39.65)

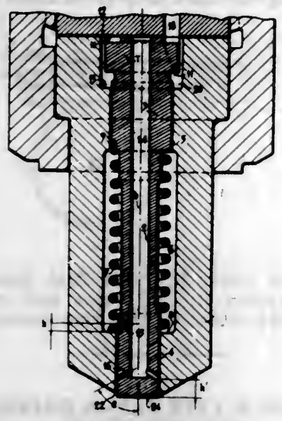


1. In a jet engine; combustion apparatus including a tubular duct and having means for supplying a combustible mixture to said duct; a flame holder structure for said combustion apparatus comprising means providing an orifice within said duct for flow of said mixture through said orifice; a tubular member co-axially supported within said duct for flow of a portion of said mixture through said member, said tubular member having a cross-sectional area smaller than that of said orifice and having an inturned flange at a point upstream of the downstream end of said member, said flange forming a second but smaller orifice within said duct; and means for igniting the combustible mixture in said duct downstream of said orifices.

2,592,111
INJECTOR FOR INTERNAL-COMBUSTION ENGINES
Bernhard Bischof, Geneva, Switzerland
Application November 9, 1949, Serial No. 126,287
In Switzerland December 30, 1948
12 Claims. (Cl. 299—107.4)

1. A fuel injector for an internal combustion engine comprising a body having a fuel inlet adapted for connection to a fuel supply and enclosing a compression chamber, a piston urged to a certain position and movable by the fuel from that position through the compression chamber and including at least two sections of different diameter, the section of larger diameter upon movement varying the volume of the compression chamber, a fuel supply duct connecting the inlet and the compression chamber during movement of the piston from that position to a second position and closed during piston movement from

that position, and outlet duct means in the piston and connected to the inlet and closed at the



outlet during movement of the piston from the first position and prior to reaching a third position beyond the second position.

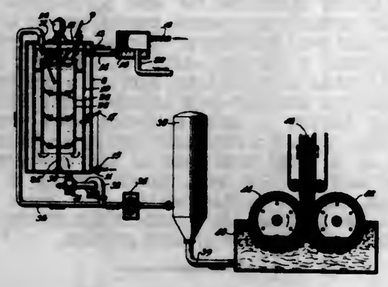
2,592,112

APPARATUS FOR CELLULOSE PROCESSING

William H. Bradshaw, New Rochelle, N. Y., and William R. Schmitz, Jr., Newark, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Original application October 27, 1942, Serial No. 463,514. Divided and this application December 6, 1947, Serial No. 790,164. In Argentina April 20, 1943

4 Claims. (Cl. 23—260)



1. Apparatus for the production of a slurry of uniform composition comprising a receptacle; a device to maintain a constant level of liquid in said receptacle comprising an inlet to said receptacle and attached to said inlet a container equipped with a supply conduit and an overflow conduit; an inlet in said receptacle for solids; agitators in said receptacle to form said slurry; in the lower portion of said receptacle an outlet for said slurry; a metering pump connected to said outlet; a receiver for said slurry connected to said metering pump and having sufficient volume for the level of said slurry to fluctuate freely therein with pressure; a conduit in the lower portion of said receiver and connected to said conduit a slurry separating device comprising a container having rotatable press rolls sealed therein to maintain said slurry under pressure and to pass said slurry out of said device.

2,592,113

PROCESS FOR THE MANUFACTURE OF ALKALI ALUMINUM FLUORIDE

Erling Brodal and Henning Guldhav, Hoyanger, Norway, assignors to Aktieselskapet Norsk Aluminium Company, Oslo, Norway

No Drawing. Application November 15, 1945, Serial No. 628,976. In Norway May 6, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires May 6, 1961
1 Claim. (Cl. 23—88)

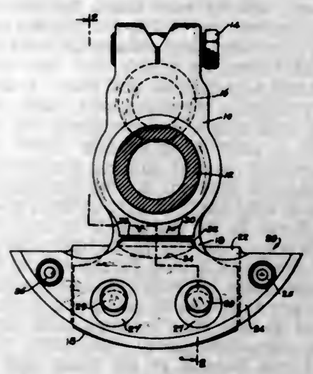
A process for the manufacture of sodium aluminum fluoride comprising heating alumina in the form of alkali aluminum silicate with fluorspar and an alkali selected from the group consisting of alkali metal oxide and alkali metal carbonate, in the presence of silica in an amount sufficient to combine with a substantial proportion of the calcium present, to a temperature to bring about sintering of the charge, lixiviating the solid reaction product obtained with an aqueous sodium hydroxide solution to obtain an alkaline solution of sodium aluminum fluoride containing some free sodium hydroxide, immediately thereafter separating undissolved solids from the solution and precipitating solid sodium aluminum fluoride from the solution by adding a neutralizing agent.

2,592,114

AMPLITUDE LIMITING MEANS FOR VIBRATION DAMPERS

George T. Bynum, Fair Lawn, Elden H. Olson, Paterson, and Francis J. Wiegand, Ridgewood, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware

Application September 8, 1948, Serial No. 48,284
2 Claims. (Cl. 74—604)



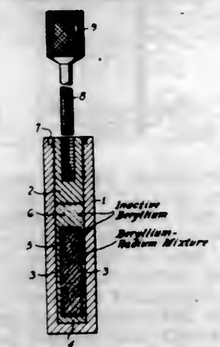
1. In combination: a shaft member; a weight member, each of said members having two parallel laterally spaced arcuate tracks facing corresponding arcuate tracks in the other of said members; roller means disposed between each facing pair of said tracks to provide a pendular bi-filar support of said weight member from said shaft member; means on one of said members having a flat surface disposed substantially parallel to the plane defined by the axes of said roller means, the other of said members having a groove with a concave cylindrical bottom wall with the axis of said cylindrical wall disposed parallel to the axes of said roller means; and an abutment member constituting a cylindrical segment swingably fitted within said groove and having a flat surface spaced from said first-mentioned flat surface, during normal operation, in all positions of said weight member along its path of pendular swinging movement, said abutment member flat surface being engageable with said first-mentioned surface to limit the amplitude of said swinging movement.

2,592,115

NEUTRON SOURCE

Clayton C. Carroll, Madison, N. J., assignor to United States Radium Corporation, New York, N. Y., a corporation of Delaware

Application July 3, 1948, Serial No. 36,925
34 Claims. (Cl. 250—106)



4. A neutron source comprising a mass of minute beryllium metal particles each of which is substantially coated with radium carbonate crystals in firm adherence to the surface of said particles, intimately mixed with an approximately equal weight of uncoated beryllium metal particles.

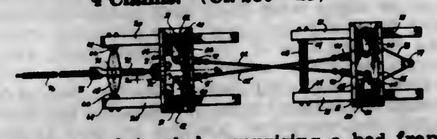
21. A neutron source including a mass of finely divided radioactive substance intimately dispersed among particles of beryllium, said substance comprising a salt of a metal selected from the radioactive group which includes radium, actinium-X, thorium-X and mesothorium, the particles of said radioactive substance being of a size not substantially larger than two microns and the particles of said beryllium being not substantially larger than forty microns, and a jacket completely surrounding said mass, said jacket being formed of a non-radioactive material which emits neutrons when exposed to the radioactivity of said substance.

2,592,116

SLED

Milo C. Caughrean, San Francisco, Calif.

Application June 26, 1948, Serial No. 35,432
4 Claims. (Cl. 280—15)



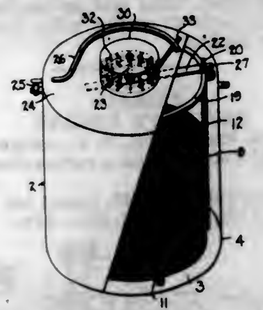
1. A heavy duty sled comprising a bed frame, front and rear cross beams of tubular construction rigidly joined by the bed frame, bearing blocks detachably fixed in the under sides of the cross beams at opposite ends thereof, a runner mounting yoke associated with each block having a vertical mounting stem extended upwardly from the yoke base and rotatably fixed in the block and extended into the hollow beams, a runner mounted in each yoke for steering thereby and for vertical rocking action, and a steering lever arm fixed to each stem and housed within the hollow beams with clearance for steering action thereby.

2,592,117

POWER AGITATED METAL PARTS CLEANING MACHINE

Earl L. Chadwick, Portland, Oreg.

Application February 11, 1946, Serial No. 646,785
1 Claim. (Cl. 134—141)



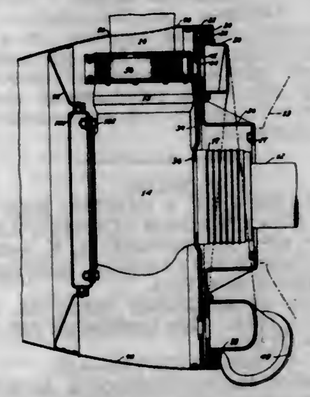
A parts cleaning device comprising a cleaning fluid container, a bearing in the base of said container, a cylindrical cage rotatably mounted on said bearing, vertically circumferentially spaced bars as part of said cage, lateral upper rollers on said cage to guide said cage by rotating against the inner wall of the container, a cover to fit upon and close said container, a prime mover mounted on said cover, a drive arm rotatably carried by said cover and connected to said mover, a connection on said cage comprising an end of one of said bars, an opening in said arm so that said end may receive said arm, to rotate said cage, said cover and arm being removable to open said cage, and said cage being removable from said bearing and container.

2,592,118

DEICING SYSTEM FOR PROPELLERS

Charles W. Chillson, Caldwell, and Ward E. Brigham, Jr., Packanack Lake, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware

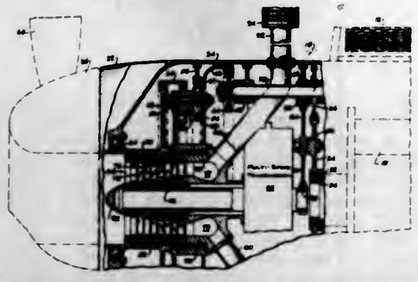
Application August 16, 1946, Serial No. 691,125
2 Claims. (Cl. 244—134)



1. As an article of manufacture for use on a propeller including a socket and a blade rotatably secured therein said blade having a port outboard of the blade socket; a split ring for assembly around the blade shank and secured to the outer end of the socket, an open ended flexible band embracing said ring and embracing the blade shank in spaced relation including means to engage said ring and means to clamp the band tight-

ly around the ring, said band including an opening for communication with a hot gas supply, another split ring secured adjacent the edge of and to said band at the edge thereof remote from said socket, and means for sealing the relatively rotatable blade shank and outer split ring to one another, said rings, band and sealing means being mountable on said propeller with the blade installed in its socket.

2,592,119
AIRCRAFT ENGINE
Allan Chilton, Ridgewood, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application July 11, 1947, Serial No. 760,384
11 Claims. (Cl. 123—119)



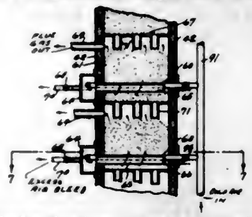
1. In combination; an aircraft engine; a hollow propeller shaft arranged to be driven thereby and having an open forward end providing an air intake opening; an engine driven supercharger disposed within the hollow of said shaft; and means providing a multi-speed drive from said engine to said supercharger.

2,592,120
PREPARATION OF GLOBULAR PROTEIN SOLUTIONS
John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 16, 1949, Serial No. 76,850
5 Claims. (Cl. 106—161)

1. A protein solution adapted for extrusion into a precipitating bath to form products therefrom which solution consists of 15–50% of a globular protein in a substantially anhydrous solvent consisting of 60–75% acetic acid and 40–25% phosphoric acid.

2,592,121
REGENERATION OF A MOVING BED CATALYST AT A UNIFORM BURNING RATE
John A. Crowley, Jr., Scarsdale, N. Y., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Continuation of application Serial No. 558,695, October 14, 1944. This application July 8, 1948, Serial No. 37,633
5 Claims. (Cl. 252—418)

1. A method for regenerating a particle form solid contact mass material bearing a carbonaceous contaminant deposit comprising: passing said solid material downwardly through a confined zone as a substantially compact column while causing it, as it flows downwardly, to follow a temperature pattern wherein it gradually rises to a peak and then gradually declines to a minimum followed by a repetition of this cycle a plurality of times, the peak temperatures being attained at a plurality of spaced levels due to heat released by contaminant combustion and the minimum temperatures being attained at a second and alternate plurality of levels by passing a cooling fluid in indirect heat transfer relationship with said column at spaced apart levels and said peak temperatures being all below a level which would cause heat damage to the contact material, while said minimum temperatures are all sufficiently high for contaminant



combustion, introducing oxygen containing gas into said column only at levels near and immediately below said second plurality of levels, whereby the fresh gas initially contacts solid material which is near a minimum temperature, and withdrawing spent regeneration gas from said column at a plurality of levels intermediate the levels of gas introduction and spaced vertically away therefrom, the column being free of cooling by indirect heat transfer at said levels of gas withdrawal.

2,592,122
PLAYING CARD
Pedro de Jesús, Bronx, N. Y.
Substituted for abandoned application Serial No. 518,923, January 20, 1944. This application April 18, 1949, Serial No. 88,219
4 Claims. (Cl. 273—152.1)

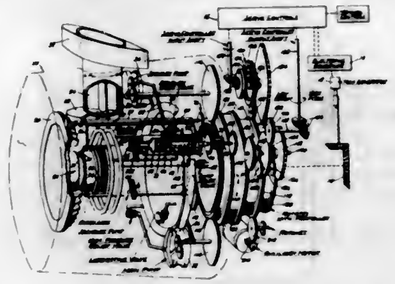


1. A playing card comprising a pair of superimposed transparent sheets one imprinted with a French or English playing card symbol and the other imprinted with a corresponding Spanish playing card symbol, a backing sheet extended along the bottom face of the bottommost transparent sheet, said backing sheet being formed along its edges with flaps bent about the edges of the superimposed sheets and extended inward along the top face of the topmost sheet, and a pressure sensitive adhesive releasably securing the free edges of said flaps to the top face of the topmost transparent sheet for securing the sheets in their superimposed position on said backing sheet.

2,592,123
PRODUCTION OF PYRIDINE NITRILES
William I. Denton, Woodbury, and Richard B. Bishop, Haddonfield, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application September 28, 1948, Serial No. 51,648
3 Claims. (Cl. 260—294.9)

1. The process for producing isonicotinic nitrile, which comprises contacting, as sole reactants, gamma-picoline with ammonia, in gaseous phase, at temperatures falling within the range varying between about 850° F. and about 1250° F., in the presence of a catalyst containing a molybdenum oxide.

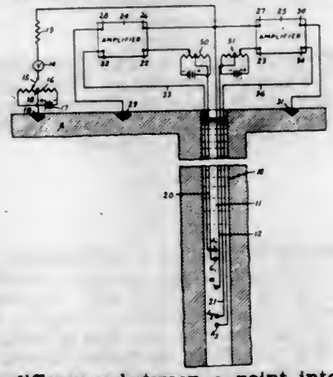
2,592,124
PITCH LOCK AND ACTUATING VALVE THEREFOR
William E. Diefenderfer, Wethersfield, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application May 25, 1950, Serial No. 164,209
7 Claims. (Cl. 170—160.2)



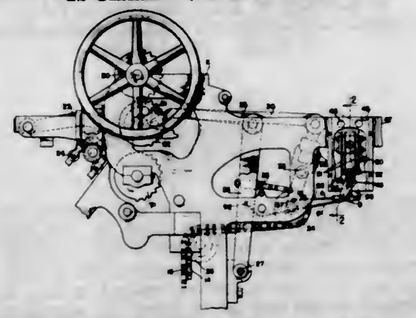
1. In a propeller blade pitch changing device having a dual direction pitch changing hydraulic motor including high and low pitch sides, a sump, a source of hydraulic fluid under pressure receiving fluid from said sump, a control valve for directing said fluid to said motor from said source and from said motor to said sump including connections to the high pitch and low pitch sides of said motor and passages to said motor and sump, said device having a pitch lock mechanism operatively connected to the blade including a spring urging said lock mechanism into locked position, said lock mechanism being held in unlocked position by preponderance of hydraulic pressure applied to one side thereof, a relief valve in the passage from said motor to said sump, a connection between said one side of said pitch lock and the high pressure side of said relief valve, and a valve port opened by said relief valve when it is not relieving pressure but closed by said valve when it is relieving pressure, said port connecting the low pitch side of said motor with said one side of said pitch lock.

2,592,125
METHOD AND APPARATUS FOR LOGGING STATIC SPONTANEOUS POTENTIALS IN WELLS
Henri-Georges Doll, Ridgefield, Conn., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application November 18, 1949, Serial No. 128,191
16 Claims. (Cl. 175—182)

12. In well logging apparatus, the combination of at least two longitudinally spaced apart electrodes adapted to be lowered into a well, means for maintaining the potential difference between one of said electrodes and a point located between said electrodes substantially zero, means for maintaining the potential difference between the other of said electrodes and a point located between said electrodes substantially zero, and means for exhibiting a function of potential difference between a point intermediate of said electrodes and a reference point.



2,592,126
ELECTRIC WEFT DETECTING SYSTEM FOR SHIFTING SHUTTLE BOX LOOMS
Robert A. Donnan, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application December 6, 1949, Serial No. 131,380
12 Claims. (Cl. 139—233)



1. In an electric weft detecting system for a loom having a lay provided with a gang of four shuttle boxes which move relatively to the lay during a box shifting interval, mechanism controlling the movements of said gang during said interval including two levers which by their movements determine which shuttle box of the gang shall be in active position at the end of a shifting interval, an electric weft detector having two electrodes for each shuttle box performing a detecting operation during a detecting period occurring during a box shifting interval, electric circuit means effective when closed to cause loom stoppage including one of the electrodes of each detector, said one electrodes being connected to the circuit means in parallel, selector electric switch means, and yielding connections operatively relating the selector switch means to said levers by which the latter move the switch means during the first part only of said movements of the levers to electrically connect the other electrode of the detector corresponding to the shuttle box to be in active position at the end of a box shifting interval to said circuit means prior to the detecting period occurring in said interval, the detector corresponding to the shuttle box to be in active position, if indicating weft exhaustion, closing said circuit means during the detecting period.

2,592,127

WITHDRAWN

2,592,128

METHOD OF MAKING A SELF-LOCKING NUT

Henry O. Engstrom, Southport, Conn., assignor to Richard W. Luce, Southport, Conn.

Application January 23, 1947, Serial No. 723,878
1 Claim. (Cl. 10—86)



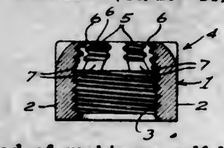
The method of making a self-locking nut of the kind described which method includes the steps of forming a nut blank with an axial bore therethrough, forming axially extending slots in the wall of said bore at one end of said blank, shearing the nut blank at spaced planes longitudinally of the nut blank from the slotted end thereof to a point intermediate the ends thereof by pressing the metal at said slots inwardly substantially to the diameter of said bore, tapping the nut blank, and thereafter pressing the inwardly pressed portion inwardly beyond the diameter of said tapped bore.

2,592,129

METHOD OF MAKING A SELF-LOCKING NUT

Henry O. Engstrom, New Canaan, Conn., assignor to Richard W. Luce, Southport, Conn.

Application October 29, 1948, Serial No. 57,199
1 Claim. (Cl. 10—86)



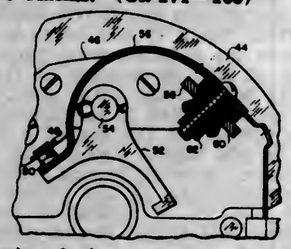
The method of making a self-locking nut of the kind described which method includes the steps of forming a nut blank with an axial bore therethrough, forming a counterbore in one end, shearing the nut blank at spaced planes longitudinally of the nut blank from the counterbored end thereof to a point intermediate the ends thereof by pressing portions of the metal of the counterbored portion inwardly substantially to the diameter of said bore, tapping the nut blank, and thereafter pressing the inwardly pressed portions inwardly beyond the diameter of the tapped bore.

2,592,130

INSULATING FASTENING DEVICE

George H. Erb, South Orange, James J. Dwyer, Union, and Andrew G. Kolesar, Linden, N. J., assignors to Elastic Stop Nut Corporation of America, Union, N. J., a corporation of Delaware

Application October 24, 1946, Serial No. 705,342
6 Claims. (Cl. 174—163)



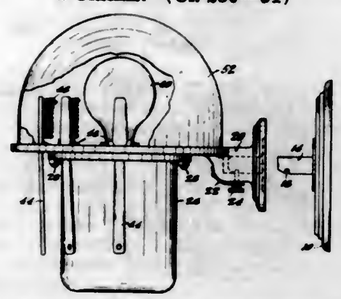
1. A fastening device comprising two members of elastic electrical insulating material, said members consisting of an outer hollow member shaped to be inserted through an opening in an apertured plate and an inner member shaped to be inserted in said outer member and spread a portion of the latter on one side of the plate to secure it in place, said inner member having a bore therein for the reception and threaded engagement with a threaded element to be held by said device in fixed and insulated relation to said plate.

2,592,131

TOOTHBRUSH STERILIZER

Roland O. Farrar, West Acton, Mass.

Application April 5, 1949, Serial No. 85,570
2 Claims. (Cl. 250—51)



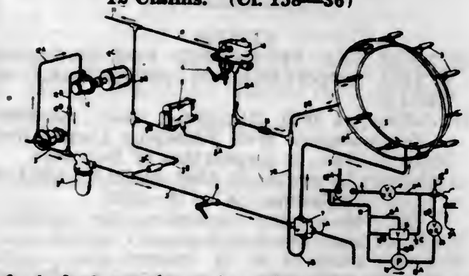
1. A tooth brush sterilizer comprising a plate having a series of elongated brush-holding apertures adjacent its periphery, a container secured to the underside of the plate, a partition dividing said container into upper and lower chambers, a voltage controller disposed in the lower chamber, a lamp socket mounted in said upper chamber upon said partition and arranged to extend upwardly through a central aperture in said plate, said socket being electrically connected to said transformer, a germicidal lamp disposed in said socket, and a domed cover disposed on said plate for housing the lamp and said plate and reflecting rays from the lamp toward the plate.

2,592,132

LIQUID FUEL SUPPLY AND CONTROL SYSTEM FOR ATOMIZING NOZZLES

Geoffrey Bertram Robert Feilden, Lutterworth, near Rugby, and Archie Simons and Raymond Holl, Leicester, England, assignors to Power Jets (Research & Development) Limited, London, England

Application June 6, 1945, Serial No. 597,912
In Great Britain June 8, 1944
12 Claims. (Cl. 158—36)



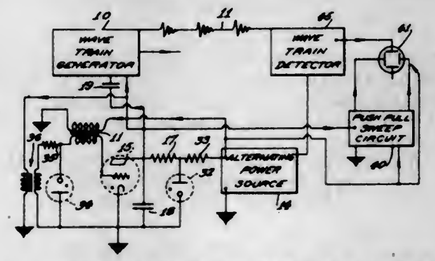
1. A fuel supply and control system for the continuous delivery of fuel for combustion comprising in combination a continuous discharge atomizing nozzle of the spill controlled type, pump means for supplying fuel under pressure to said nozzle, said pump means having a capacity in excess of the maximum atomized output required of said nozzle, a fuel supply conduit connecting said pump means and said nozzle, a spill return flow conduit from said nozzle, a resiliently loaded relief valve in said spill return flow conduit, the resilient load of which is varied to vary the rate of spill return flow, servo means acting on said resilient load to vary the loading thereof, manual actuating means actuating said servo means to vary the loading of said resiliently loaded relief valve and barometrically responsive automatic actuating means acting independently of said manual actuating means also actuating said servo means to vary the loading of said resilient loaded relief valve, thereby permitting the atomized discharge of said nozzle to be varied by modifying the balance between the supply and the spill return flow.

2,592,133

METHOD AND MEANS FOR SYNCHRONIZING A VOLTAGE TRAIN GENERATOR AND POWER SUPPLY

Floyd A. Firestone, Ann Arbor, Mich., and Ralph B. De Lano, Jr., New York, N. Y., assignors to Sperry Products, Inc., Hoboken, N. J., a corporation of New York

Application June 28, 1945, Serial No. 602,098
3 Claims. (Cl. 250—36)



1. In combination, a voltage train generator having electronic means, a source of alternating current power supply for supplying the local voltages to said means, said means being effective during a portion of each alternating current cycle, and means for actuating said generator during said portion of the alternating current cycle, said last-named means comprising a critical voltage breakdown device, said device including a plate element and a grid element, means including a voltage regulator tube for each of said elements across said alternating current supply for applying a constant voltage to each element during said portion of each cycle, and means for superimposing energy from the alternating current supply on the voltage of one of said elements, the changes in voltage in the latter element causing said device to break down when a predetermined voltage is reached.

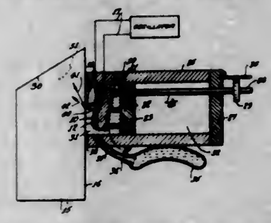
2,592,134

METHOD OF SUPERSONIC INSPECTION

Floyd A. Firestone, Ann Arbor, Mich., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York

Application June 28, 1945, Serial No. 602,102
4 Claims. (Cl. 73—67)

1. The method of inspecting the interior of a solid part, which consists in maintaining said part in contact with a liquid, transmitting a supersonic wave through the liquid and into said part, the wave being transmitted through the liquid at an angle of incidence lying between the critical angles for longitudinal and shear waves in the solid part, and detecting waves emerging from the solid part.

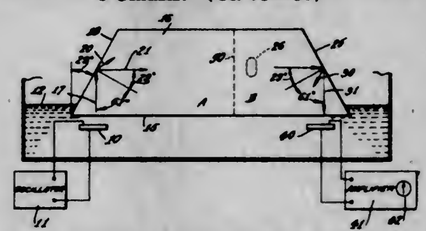


2,592,135

INSPECTING SOLID PARTS BY SUPERSONIC SHEAR WAVES

Floyd A. Firestone, Ann Arbor, Mich., assignor to Sperry Products, Inc., Hoboken, N. J., a corporation of New York

Application June 28, 1945, Serial No. 602,104
8 Claims. (Cl. 73—67)



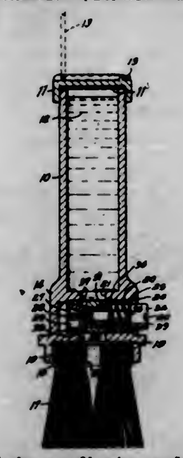
1. The method of inspecting solid parts for flaws, comprising generating supersonic longitudinal waves, transmitting the longitudinal waves through the solid part onto an intercepting free surface of the part and at such angle to said free surface that the resulting shear waves will be transmitted through the portion of said solid part to be tested.

2,592,136

VALVE FOR FOUNTAIN STENCIL BRUSHES

Edward S. Garvey, Clayton, Mo.

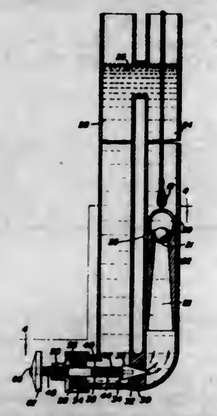
Application July 22, 1949, Serial No. 106,149
3 Claims. (Cl. 251—137)



1. In a fountain applicator valve, a valve body having opposed internal cone shaped seats intermediate the ends of the body, the wall of one

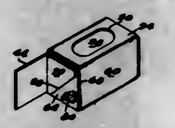
of the seats having opposed ports, and further having a recess at the free end of the ported wall, a cone shaped valve member acting against the ported seat, said valve member having a pin engageable in said wall recess to prevent rotation of the valve member, a tubular packing acting against the other seat, a washer acting against the packing, a valve stem passing through the washer and packing and detachably connected at one end with the small end of the valve member, a head having a screw driver slot on the opposite end of the valve stem, and a coiled spring surrounding the valve stem between the washer and the valve stem head.

2,592,137
CLOSURE CONTROL DEVICE
Claud W. Gray, El Paso, Tex.
Application December 16, 1949, Serial No. 133,268
2 Claims. (Cl. 16—82)



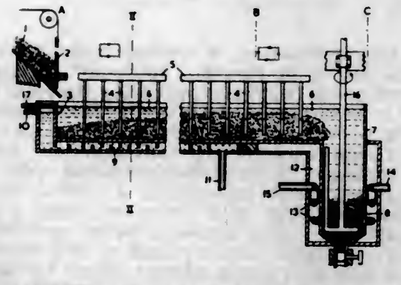
1. In a closure system which includes at least one closure, an attachment to regulate the rate of closing of the closure comprising a pair of fluid tubes with a passage connecting the tubes, an elongated member secured at one end to the closure, a piston operable in one of the tubes and having the opposite end of said member secured thereto, a check valve in said piston, a control valve in said passage to regulate the effective cross sectional area of said passage, means forming an inlet in said control valve to charge said tubes with fluid, the closure having a jamb therearound, and said means forming a fluid inlet being passed through an opening in said jamb to the exterior thereof so that said tubes may be serviced from the exterior of the jamb.

2,592,138
RAZOR BLADE DISPENSING PACKAGE
Stephen J. Gwoosh and Clarence E. Taylor, Newark, N. J.
Application January 16, 1950, Serial No. 138,788
4 Claims. (Cl. 206—16)



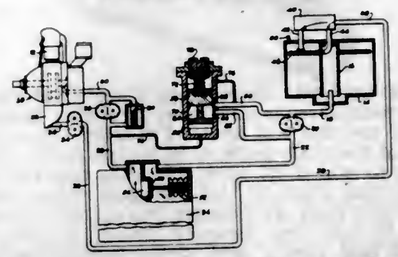
1. A razor blade package comprising a housing formed of a single piece of sheet material, with a bottom wall having integral inner end wall members extending therefrom, and having inner end wall flaps extending from each of said inner end wall members, said housing having a first inner side wall extending from said bottom wall and a second outer side wall adapted to overlie said first inner side wall for being secured thereto, with intermediate end walls extending from said second outer side wall, said housing having a third side wall extending from said floor member and having third outer end walls extending from said third side wall, a top member interconnecting said second outer side wall and said third side wall and having an opening formed therein to receive a finger of the user for sliding blades disposed in the housing, said integral inner end wall members being upfolded from said bottom wall, and said intermediate end walls being infolded from said second outer side wall to overlie said integral inner end wall members, and said third outer end walls being infolded from said third side wall to overlie said inner end wall flaps, a plurality of blades in said housing resilient means in said housing for biasing said blades placed therein against said top member, said parts being so dimensioned relatively as to form above the rounded fold joints of said inner end wall flaps razor blade ejection openings, and whereby, upon insertion of the finger through said top member opening and frictional engagement with the top blade, said top blade may be moved toward either of said ejection openings and ejected from said housing.

2,592,139
CONTINUOUS PROCESS FOR THE PRODUCTION OF ANHYDROUS GLAUBER'S SALT
Horace J. Hegan, Coventry, England, assignor to Courtaulds Limited, London, England, a British company
Application June 6, 1949, Serial No. 97,414
In Great Britain July 2, 1948
4 Claims. (Cl. 23—121)



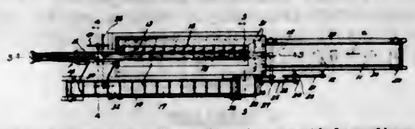
1. A continuous process for the production of anhydrous sodium sulphate from Glauber's salt which comprises heating Glauber's salt to a temperature above 32.5° centigrade to form anhydrous sodium sulphate and a saturated solution of sodium sulphate by passing the Glauber's salt longitudinally through a substantially horizontal tank having at one end a cold zone at a temperature below 32.5° C. and at the other end a hot zone above 32.5° C., continuously separating the saturated solution from the anhydrous sodium sulphate and recovering the anhydrous sodium sulphate by withdrawing it from the tank at the hot zone, causing the saturated sodium sulphate solution so formed to flow continuously as a confined stream along a substantially horizontal path away from the hot zone to the cold zone, gradually cooling said stream of saturated solution so that its temperature gradually and uniformly falls to a temperature below 32.5° C. as it flows from the hot zone to the cold zone whereby by the stream as it cools deposits Glauber's salt, continuously feeding additional Glauber's salt into said stream in the cold zone, continuously moving both the additional and the deposited Glauber's salt counter-current through said stream into the hot zone where the Glauber's salt is continuously converted to anhydrous sulphate and saturated sodium sulphate solution.

2,592,140
LUBRICATION SYSTEM
Martin M. Holben, Ridgewood, and Walter L. Weeks, Wyckoff, N. J., assignors to Curtiss-Wright Corporation, a corporation of Delaware
Application January 9, 1946, Serial No. 640,017
10 Claims. (Cl. 184—6)



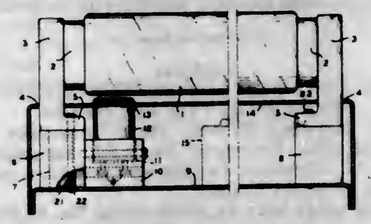
1. In combination with a lubricating system for an engine comprising an oil supply reservoir, first and second pumps, an oil cooler, a first passageway connected between the outlet of said first pump and the inlet to said cooler, and a second passageway connected between the outlet of said cooler and the inlet of said second pump, the oil flow path from said reservoir to said engine being such that said first pump is arranged to draw oil from said reservoir and to pump said oil, sequentially, through said first passageway, through said cooler and thence through said second passageway to said second pump and said second pump is arranged to deliver said oil to various surfaces of the engine to be lubricated; first means providing a third passageway distinct from said flow path and having one end communicating with said second passageway; and second means operable to regulate the delivery pressure of said first pump, said second means including means subjected to the pressure at the other end of said third passageway for controlling the operation of said second means in response to oil pressure changes in said third passageway.

2,592,141
ARTICLE ARRANGING APPARATUS
Donald R. Holdren, West Liberty, Ohio
Application April 9, 1949, Serial No. 86,431
9 Claims. (Cl. 198—33)



1. An apparatus for aligning articles disposed in helter-skelter relationship comprising a frame, a pair of spaced parallel rotating rolls mounted on said frame, one only of said rolls being provided with a longitudinally extending helical rib, said rib cooperating with a plain cylindrical surface present on the periphery of the other of said rolls to form traveling article-receiving pockets between said rolls, and a base conveyor supported by said frame having an upper run movable below and in registry with an article-space present between said rolls to effect the support of articles independently of said rolls and move said articles longitudinally between said rolls in a manner normally independently of said helical rib.

2,592,142
HOLDER DEVICE FOR END-CAPPED ELECTRICAL DISCHARGE TUBES PROVIDED WITH STARTER SWITCHES
Erik Gunnar Holm, Hagalund, Sweden, assignor to Lumalampan Aktiebolag, Stockholm, Sweden, a corporation of Sweden
Application February 2, 1948, Serial No. 5,804
In Sweden August 24, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires August 24, 1966
3 Claims. (Cl. 173—328)

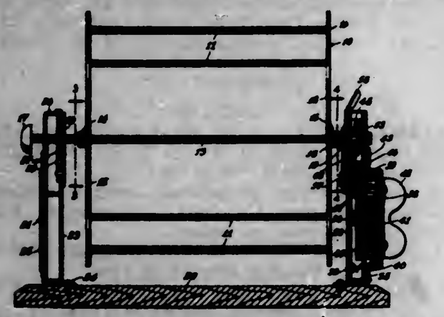


1. A combined fluorescent tube socket and starter switch holder comprising separable members including a fluorescent tube socket, an adapter for supporting said socket, said adapter being provided with a bore for the reception of electrical connections, securing means for attaching said socket to said adapter, the socket and adapter being provided with aligned apertures for the reception of said securing means, and a starter switch holder, said starter switch holder being provided with spaced apertures for the reception of fastening means whereby said starter switch holder may be secured to one face of said adapter, the starter switch holder and adapter being of substantially identical exterior conformation whereby the starter switch holder may be supported in a plurality of positions by selectively employing the adapter to mount the fluorescent tube socket or substituting the starter switch holder for the adapter, the spaced apertures in the starter switch holder aligning with the apertures in the tube socket whereby the socket may be attached to the starter switch holder using said securing means.

2,592,143
FISHING LINE WASHING AND DRYING APPARATUS
George Frederick Heitz, Brooklyn, N. Y., and Sam Bernstein, Oakland, Calif.
Application August 3, 1948, Serial No. 42,206
10 Claims. (Cl. 242—104)

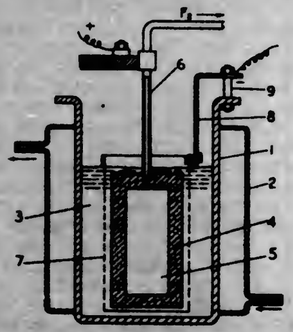
1. Fish line washing and drying apparatus comprising a base, aligned bearings supported by the base, a hollow reel comprising a shaft removably supported by the bearings, a latch for holding the reel against removal, spring actuated driving mechanism for rotating the reel, driving means between said driving mechanism and said shaft means for locking the driving mechanism and a unitary control member for said latch and locking means operable to lock the driving mechanism when the latch is released to permit removal of the reel, said driving means comprising a driving shaft having abutment means thereon, a pinion rotatably mounted on said driv-

ing shaft and adjustable friction means for urging said pinion into frictional engagement with



said abutment means, whereby to provide a friction clutch between said pinion and said driving shaft.

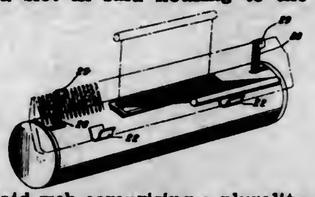
2,592,144
PROCESS FOR THE ELECTROLYTIC PRODUCTION OF FLUORINE
William Norman Howell, Hale, Liverpool, and Harold Hill, Runcorn, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
Application May 11, 1949, Serial No. 92,606
In Great Britain May 14, 1948
6 Claims. (Cl. 204—60)



1. A process for the production of fluorine which comprises flowing an electric current through a liquid electrolyte mixture consisting essentially of hydrogen fluoride and a fluoride salt selected from the group consisting of potassium, rubidium and caesium fluorides and mixtures thereof, between a porous anode made of a material from the group consisting of graphite and amorphous carbon having a permeability not less than 10 and an insoluble cathode, said anode being wholly immersed in said electrolyte, and removing substantially all the fluorine generated by the electrolysis through the pores of the anode from the interior of the anode.

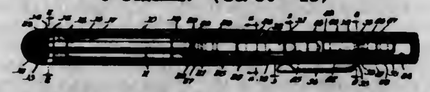
2,592,145
COMB CLEANER EMBODYING A CASING AND SPRING RETRACTED FLEXIBLE ELEMENT
Frederick E. Hummel, Chicago, Ill.
Application January 7, 1948, Serial No. 992
2 Claims. (Cl. 132—29)

1. A comb-cleaning device comprising: a tubular housing, bracket means secured to the exterior of said housing for mounting a comb thereon in position to be cleaned, a pair of inserts forming removable closures for the respective ends of said housing, a pair of spirally wound flat springs, each anchored at one end to one of said inserts and having a free end portion extending outwardly of the housing, each said free end portion being bent to form a hook adapted to engage and bear endwise against the teeth of a comb mounted on said bracket means in such manner as to clamp the comb in the aforementioned position, a rotatable shaft disposed within and extending lengthwise of said housing, an elongate web secured at one end to said shaft and wound thereon, the free end of said web passing through a slot in said housing to the exterior



thereof, said web comprising a plurality of laterally spaced threads or strings extending lengthwise of the web and adapted to enter the interstices of the comb teeth, a retracting spring connected to said shaft, said web being operative to rotate said shaft in one direction upon being withdrawn from the housing, the rotation of said shaft in said one direction being effective to tension said spring, said spring being operative by reason of said tensioning to rotate said shaft in the opposite direction and thereby draw said web back into the housing.

2,592,146
DRY SHAVER
Rasmus M. Hvid, Wilmette, Ill., assignor to Veed Corp., Chicago, Ill., a corporation of Illinois
Application August 22, 1947, Serial No. 770,122
9 Claims. (Cl. 30—43)

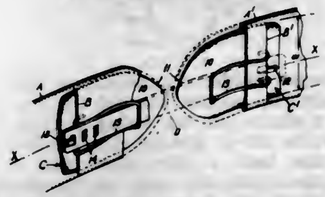


1. A shaver comprising a core member, a hollow perforated cylinder mounted for free rotation about said core member for rolling engagement with the skin as said shaver is moved through alternate oppositely directed shaving strokes, a cutter rotatably mounted on said core member within said hollow cylinder and having a plurality of longitudinally extending cutting edges spaced about the periphery thereof and adapted to engage the inner surface of said perforated cylinder, and means on said cutter and said core member providing a lost motion connection for limiting to a predetermined angle the relative rotation therebetween whereby said cutter is frictionally driven by and rotates with said hollow cylinder during an initial portion of each shaving stroke following a reversal of the direction of travel and is held against rotation during the remainder of each stroke.

2,592,147
CODISPERSIONS OF POLYTETRAFLUOROETHYLENE AND HYDROUS OXIDES
Carol K. Ikeda, Philadelphia, Pa., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 23, 1947, Serial No. 750,166
3 Claims. (Cl. 260—29.6)

1. An aqueous colloidal dispersion of polytetrafluoroethylene and hydrated silica, said hydrated silica being present in a proportion of 5%–50% by weight based on the polytetrafluoroethylene and said polytetrafluoroethylene and hydrated silica being present as colloidal particles not substantially over 0.2 micron in smallest dimension and 1 micron in largest dimension.

2,592,148
GARMENT TENSIONING MEANS
Marcus Manly Isaacs, St. Leonards, New South Wales, Australia
Application August 20, 1948, Serial No. 45,336
In Australia September 24, 1947
8 Claims. (Cl. 2—237)

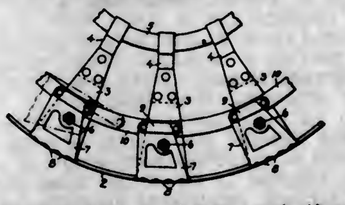


1. A tensioning device for use on a garment comprising two pouches secured to the garment in spaced and opposed relationship and each pouch having an open mouth and a closed bottom, the mouths of the two pouches being away from and the bottoms of the two pouches being towards one another, two supporting members each having a base accommodated in one of said pouches and slidably removable therefrom, each said base having a transverse width and an end contour corresponding to the width and bottom contour respectively of its pouch and a portion of each supporting member projecting from the pouch receiving the base of that member and towards the other pouch, and a separate connecting link detachably securable to the projecting portions of both said supporting members.

2,592,149
THERAPEUTIC PREPARATION COMPRISING BENZYL CINNAMATE AND VITAMIN A
Jacob Jacobson, New York, N. Y.
No Drawing. Application April 9, 1949, Serial No. 86,592
6 Claims. (Cl. 167—65)

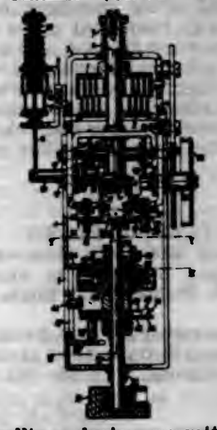
1. A therapeutic composition comprising benzyl cinnamate in olive oil containing 2 to 5 parts of benzyl cinnamate per 100 parts of the suspension and 7,500 to 12,500 units of vitamin A per cc. of the suspension.

2,592,150
ADJUSTABLE CALK FOR PNEUMATIC VEHICLE TIRES
Albert Jaern and Leif Eriksen, Oslo, Norway
Application December 30, 1947, Serial No. 794,480
In Norway February 27, 1946
4 Claims. (Cl. 152—213)



1. In a calk arrangement for pneumatic vehicle tires, in combination, a wheel having a pneumatic tire; a ring of resilient material arranged on the circumference of said tire and including a tread portion and a plurality of radial tongues arranged oppositely to one another on the sides of said tread portion and having free ends; two support rings located oppositely to each other on the sides of said wheel and concentrically with respect to the axis of said wheel, said free ends of said tongues being detachably connected to said support rings, respectively; a plurality of pivot pins secured, respectively, to said tongues at least at the outer side of said wheel; a plurality of calk elements pivoted, respectively, to said pins; and means for bringing said calk elements in and out of operative position.

2,592,151
TUNING MEANS
Albert Jahncke, Geneva, Switzerland, assignor to Hermann Thorens S. A., Sainte-Croix, Switzerland, a limited liability stock company of Switzerland
Application June 28, 1950, Serial No. 170,766
In Switzerland July 8, 1949
5 Claims. (Cl. 74—10.6)

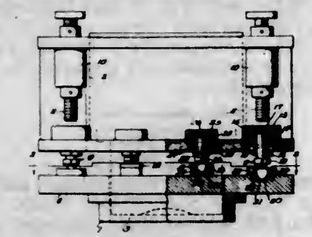


1. A controlling device permitting precision tuning to the frequency of an electric circuit comprising at least one coarse-adjusting element and at least one fine-adjusting element, each element having a movable part displaceable in relation to a fixed part, a single operating means, said means comprising drive and driven elements mechanically linked to the movable part of said fine adjusting element by a permanent connection with said driven elements, an additional mechanical connection to the movable part of said coarse-adjusting element driven by a take-off connection from said driven elements of said first means, and stop means defining the relative position of the fixed and movable parts of said coarse-adjusting element when the mechanical connection between said operating means and the said movable part of said coarse-adjusting element is rendered ineffective.

2,592,152
ADJUSTING MECHANISM FOR METAL DRAWING PRESSES
Einar K. Johansen, Oak Park, Ill., assignor to Clearing Machine Corporation, Chicago, Ill., a corporation of Illinois
Application July 17, 1947, Serial No. 761,679
1 Claim. (Cl. 113—46)

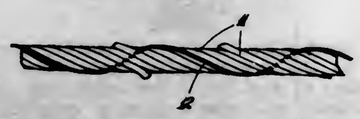
In a sheet metal drawing press, inner and outer upper slide members, an upper draw ring, a cen-

trally apertured plate member secured to the upper edge of said upper draw ring, a plurality of horizontally spaced individually operable adjusting screw members each having one end threadedly received in the under side of said outer slide member, means for mounting the other end of each of said screw members for universal movement in said plate member, said screw members being located peripherally around said outer slide and plate members, a plurality



of horizontally spaced individually operable bolstering screw members adjustably threadedly mounted in the underside of said outer slide intermediate said screw members for movement toward and away from said upper draw ring in the adjusted position thereof, and a bolster block mounted for universal movement on the lower end of each bolstering screw member to thereby make self-adjusting face to face engagement with the adjusted plate member and bolster the upper draw ring during operation of the press.

2,592,153
TEXTILE FABRIC
Arthur Johnson and John Bamber Speakman, Leeds, England, assignors to Alginate Industries Limited, Maidenhead, England, a British company
Application December 22, 1947, Serial No. 793,220
In Great Britain April 11, 1941
4 Claims. (Cl. 28—76)



3. A process of making a fabric, which comprises twisting calcium alginate yarn having a fineness of between 75 and 125 denier with worsted-spun yarn having a fineness greater than 31,360 yards per pound to form a composite yarn, making a fabric from the composite yarn and thereafter washing the fabric in an alkaline bath to dissolve the calcium alginate yarn.

2,592,154
CELLULOSIC TEXTILE FABRIC
Arthur Johnson and John Bamber Speakman, Leeds, England, assignors to Alginate Industries Limited, Maidenhead, England, a British company
Application January 8, 1948, Serial No. 1,150
In Great Britain April 11, 1941
2 Claims. (Cl. 28—72)



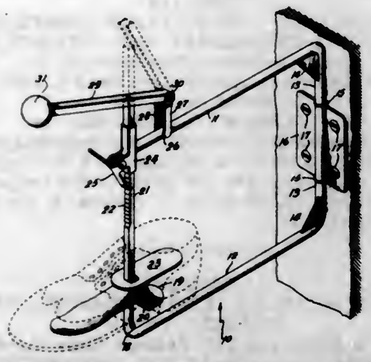
2. A process of making woven fabrics which comprises winding alkali soluble alginate yarn having a fineness of between 50 and 100 denier with cotton staple yarn having a fineness greater than 134,000 yards per pound to form a composite yarn, weaving a fabric from the composite yarn and thereafter washing the fabric in an alkaline bath to dissolve the alginate yarn.

2,592,155
CRAVAT HOLDER
Edward A. Johnson, Taunton, Mass.
Application March 15, 1950, Serial No. 149,735
3 Claims. (Cl. 24—49)



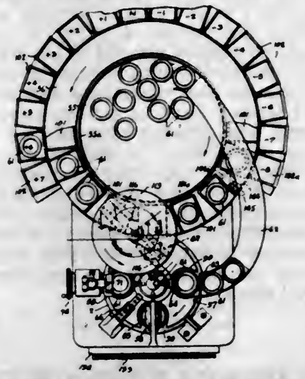
1. A cravat holder comprising a rear bar of sheet material, means carried by the bar for gripping a shirt, said bar being bent at one end to overlie the bar in spaced relation and provide a catch and bent at the other end to provide a tongue to overlie the rear bar in spaced relation and normally forwardly of the catch, said tongue being flexed to engage the catch and press away from the rear bar against the catch to provide a closed loop to slidably receive a cravat, said catch being of a width greater than said tongue and having an opening therein between the upper and lower edges and spaced from the end with the stock between the opening and end offset to receive the tongue in the opening and into which the tongue extends from the rear of said catch to be held against lateral displacement by the edges of the opening.

2,592,156
SHOE HOLDING DEVICE
Thomas F. Keenan, Albany, N. Y.
Application October 26, 1950, Serial No. 192,204
2 Claims. (Cl. 12—123)



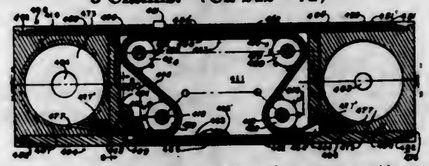
1. A shoe holding device adapted readily to receive and lockingly to hold shoes in position to be polished or shined, comprising a single, elongated, resilient bar of metal bent at substantially right angles at intermediate portions thereof to provide a U-shaped frame composed of an intermediate base portion and two arms outwardly extending from each end of the base portion an equal distance and in spaced, substantially parallel relation; a securing bracket connected to an intermediate section of said base portion adapted to secure the same directly to a wall surface; reinforcing elements connecting said bar where it is bent at right angles to maintain said angular relation and to permit the extending resilient arms to flex outwardly under pressure to provide a spring-acting U-shaped frame firmly to clamp said shoes therebetween; a shoe support secured to one of said arms at its free end; a sleeve member, substantially vertically arranged, secured to the free end of said other arm, which member is aligned substantially directly with the free end of said first arm and substantially centrally of said shoe support; a rack bar slidably mounted in said sleeve, said bar having a shoe holding member attached to its bottom end, and said bar and holding member being operable to slide downwardly into position gravitationally; a lever pivotally mounted on the said other arm ntermediate the ends thereof, and adapted to be swung into an out-of-the-way position when the rack bar is raised, and to engage the end of the rack when the latter has been lowered to a position where the holding member engages a shoe in said device in order that downward pressure can be brought thereon so that said resilient arms relatively will be slightly sprung apart, but tend to restore to original position, thereby acting as a clamp firmly to hold a shoe therebetween; and, a ratchet locking member adapted to engage the teeth on the rack bar to hold the latter in raised inoperative position, and locked in lowered operative position.

2,592,157
AUTOMATIC GAUGING AND ASSORTING DEVICE
George H. Kendall, Noroton Heights, Conn.
Application May 10, 1946, Serial No. 668,818
20 Claims. (Cl. 209—88)



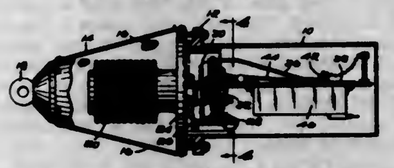
1. A measuring machine of the character described comprising a gauging means for measuring work pieces and including a movable element positioned according to a dimension of the work piece, means for moving work pieces to and from the gauging means, a plurality of electric circuits controlled by said movable element, a plurality of trip means, an electrical means for operating each trip means, a plurality of hand operated switches each including a movable contact connected with one of the circuits from the gauging means and a plurality of contacts each connected to a trip operating means coacting with the movable contact, said movable contact adapted to connect said circuit with any one of a plurality of the trip operating means, a plurality of work receiving means, and means associated with each receiving means adapted to cooperate with a given set trip to deposit the corresponding work piece in said receiving means.

2,592,158
PHOTOGRAPHIC FILM MAGAZINE
Herbert D. Kirby, Hayden Lake, Idaho, and Charles F. Krause, Bellevue, Wash.; said Krause assignor to said Kirby
Application November 8, 1945, Serial No. 627,435
8 Claims. (Cl. 242—71)



1. A container or magazine for supporting roll film in a photographic camera comprising a relatively elongated rectangular casing, a pair of transverse walls in the casing dividing the same into a pair of end compartments and a center compartment therebetween, the end compartments opening at the ends of the casing, each of said walls having a vertical slot adjacent corresponding ends thereof, a pair of substantially rectangular identical hollow cartridges for holding strip film, each cartridge having a cylindrical interior wall and a slot tangential thereto, the cartridge being inserted respectively in said end compartments in relatively inverted positions whereby said tangential slots register respectively with the slots in said lateral walls, said tangential slot being substantially normal to said dividing wall, an extensible supporting element carried by the cartridge for supporting an end of film withdrawn from said tangential slot in a position to be guided into a wall slot when the cartridge is inserted into an end compartment, and mechanism for transporting the film from one to another of said cartridges through said registering slots.

2,592,159
TIDE GAUGE
Arthur A. Klebba, Allyn C. Vine, and William M. Ewing, Woods Hole, Mass., assignors to the United States of America as represented by the Secretary of the Navy
Application December 23, 1946, Serial No. 717,944
5 Claims. (Cl. 73—300)



1. A tide gauge comprising recording means, a container having a section for admitting water and a separate section for housing said recording means, pressure responsive means in said water receiving section, pressure responsive means in said housing section, and means interconnecting said responsive and said recording means in such manner as to prevent transmission of negligible transient pressure variations to the latter.

2,592,160
BATHTUB HEADREST
John Kunes, Chicago, Ill.
Application May 4, 1950, Serial No. 160,040
3 Claims. (Cl. 4—185)

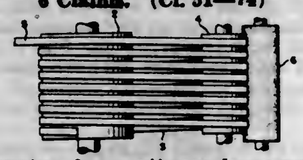
1. An auxiliary body support structure comprising a support member, a mounting member, means hingedly interconnecting said support

member and said mounting member at one end thereof, a spacing member hingedly attached to said support member, a cam adapted to abut against said mounting member, and means for



clamping said spacing member and said cam together whereby to hold said support member and said mounting member in a predetermined angular position with respect to each other.

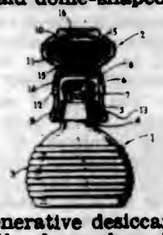
2,592,161
APPARATUS FOR CONTINUOUSLY ABRADING ELONGATED STRANDS
Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application August 5, 1949, Serial No. 108,821
6 Claims. (Cl. 51—74)



1. Apparatus for continuously smoothing the surface of an elongated generally rectangular strand comprising a continuous helical strand conveying reel having a width equal to the width of a multiplicity of strands, a rotatable roll spaced from the reel with its axis substantially parallel to the axis of the reel, and an abrading wheel adjacent the roll and spaced therefrom a distance substantially equal to the thickness of said strand, the said roll and abrading wheel having a width equal to the width of a multiplicity of strands, said strand being adapted to pass around the reel and roll a multiplicity of times side by side.

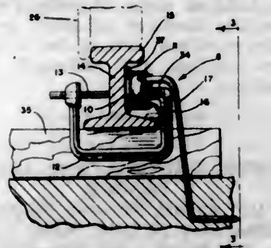
2,592,162
SALT SHAKER ARRANGEMENT WITH DESICCANT CONTAINER
Richard W. Luce, Southport, Conn., assignor to Luce Manufacturing Company, Groton, Vt., a corporation of Delaware
Application May 10, 1948, Serial No. 26,061
2 Claims. (Cl. 222—190)

1. A salt shaker arrangement of the kind described comprising in combination a salt shaker including a portion forming a chamber for holding a quantity of salt and a neck portion, a cap for the neck portion having a perforated end wall and a skirt, releasable interengaging means on the cap and neck portion for releasably securing the cap to the neck portion, and a container for a desiccant including a dome-shaped portion for the desiccant and a circumambient skirt portion for enclosing the neck of the salt shaker, a part of said dome-shaped portion being color-transparent, a perforated, metal diaphragm at the juncture of said dome-shaped and skirt por-



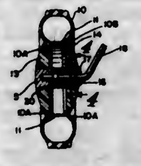
tions, and a regenerative desiccant with a color indicator within the dome-shaped portion of the desiccant container.

2,592,163
AUDIBLE RAILROAD CROSSING WARNING SIGNAL
Sydney W. Madden, Chicago, Ill.
Application September 7, 1949, Serial No. 114,346
1 Claim. (Cl. 246—125)



An audible railroad warning signal comprising, in combination with railroad tracks and truck wheels riding thereupon; a multiple number of microphone assemblies secured to the web portion of the said railroad tracks in spaced relation to react directly to the vibrations thereof caused by the said truck wheels at a time when the said truck wheels are directly over any of the said microphone assemblies; a source of electrical energy; a phonetic amplifier connected electrically to the said source of electrical energy; a loud speaker electrically connected to the said phonetic amplifier; and an electrical wiring circuit connecting in parallel the said microphone assemblies to the said phonetic amplifier and to the said loud speaker.

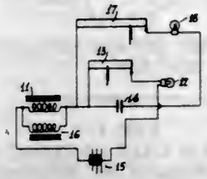
2,592,164
MODEL AIRPLANE WHEEL STRUCTURE
Allen B. Maxam, Burbank, Calif.
Application October 18, 1948, Serial No. 55,057
4 Claims. (Cl. 301—63)



1. In a miniature wheel construction incorporating a hollow tire with spaced beads, a detachable spacer maintaining said beads in spaced relationship, a pair of relatively movable disk members engaging said beads and clamping said spacer and beads therebetween, a two-part hub member comprising two screw threaded parts engaging corresponding ones of said disk members for clamping said disks together with said beads

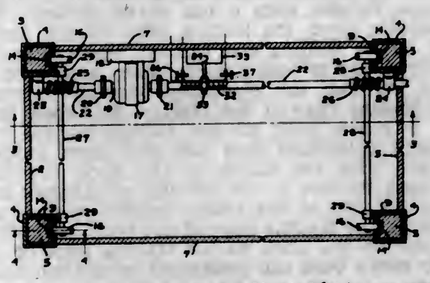
between said disks and said spacer, with all the force developed between said two screw threaded parts being applied to said beads, said two-part hub member being provided with internal bearings in each part, an axle passing through each of said bearings, a pair of spaced surfaces on opposite ones of said hub members serving as stop members, and a stop member mounted on said axle adjacent the two parts of said hub member and cooperating with the aforesaid stop members to prevent undue longitudinal movement of the axle.

2,592,165
BULB CHANGER
Julian A. McDermott, Elmhurst, N. Y.
Application January 16, 1950, Serial No. 138,837
2 Claims. (Cl. 315—88)



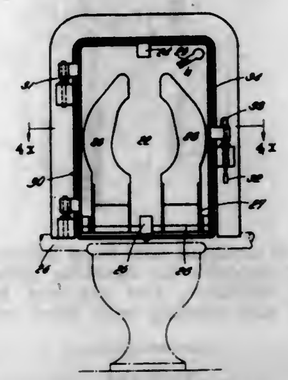
1. In a bulb changing device to be used in connection with a lamp flashing circuit, relay means to successively switch in reserve bulbs as bulbs are burned out, said circuit including a condenser and means for charging it during the lamp "off" of the flashing cycle and discharging it on each flash, said relay means controllable by the current into said condenser, said relay operable when the charging current into said condenser drops below the minimum established by the normal time of repetition of the flash and the simultaneous discharge of the condenser.

2,592,166
SAFETY BED
Colin C. McLean and Sander A. Davis, Chicago, Ill., assignors to Hospital Furniture, Inc., Chicago, Ill., a corporation of Illinois
Application October 17, 1947, Serial No. 780,486
3 Claims. (Cl. 5—63)



3. A hospital safety bed adjustable to an upper treatment position and a lower safety position comprising a single mattress supporting frame, corner posts secured to the frame, a leg slidable within each of the corner posts, means for moving all of the legs relatively to the corner posts simultaneously, said means including an electric motor mounted on the frame, a rack mounted on each of the legs, pinion gears mounted on the frame and engaging the racks to move the legs relative to the corner posts, and means driven by the motor for turning the pinion gears to move the legs in the corner posts simultaneously, said motor adapted to turn in either direction to move the legs into and out of the corner posts, and limit switches operated by the motor adapted to break the circuit to the motor to stop the movement of the bed at the treatment position as the bed moves upward and at the safety position as the bed moves downward.

2,592,167
TOILET SEAT SANITATION DEVICE
James Monaghan, Bournemouth West, England
Application March 9, 1946, Serial No. 653,360
In Great Britain March 12, 1945
11 Claims. (Cl. 4—233)

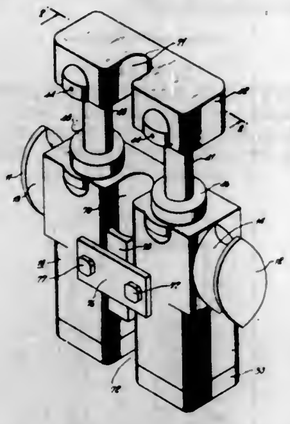


1. In a sanitation device for toilet seats adapted to overlie a toilet bowl, the combination of a support, a carrier, a vertical panel mounted on the carrier for rotational movement on an axis of the panel, a toilet seat member, means for attaching the member to the panel for movement from a position in which it lies parallel to the panel to a position in which it lies substantially horizontal and above the bowl, a sanitizing device, means for mounting the device on the carrier to lie to the rear of the panel and in position to act upon the seat member when the panel is reversed and the member lies behind the panel, and means for mounting the carrier on the support for swinging movement on a vertical axis offset from the central vertical axis of the carrier and adjacent a vertical edge of the panel.

2,592,168
HYDRAULIC JACK FOR HANDLING ROD STRINGS OR THE LIKE IN WELLS
Edwin A. Morris, Hutchinson, and Edgar A. Morris, Fredonia, Kans.
Application November 26, 1948, Serial No. 62,188
5 Claims. (Cl. 255—15)

1. A hydraulically operated hanger jack of the character described comprising a block, suspender means attached to said block, said block having longitudinally extending open-ended bores, cylinder casings in said bores, retaining means at upper ends of said bores for positioning the upper ends of said casings in said bores, pistons movable in said casings and outwardly thereof through the upper ends of said casings, sealing means around said pistons at said upper ends of said casings to prevent leakage of pressure fluid thereat, a cross arm secured to said pistons externally of said block and movable toward and away from the latter with outward and inward movements of said pistons, a bottom cylinder head for sealing the lower ends of said

bores and casings against leakage of pressure fluid, said head having pressure fluid conduits for delivering pressure fluid to said cylinder casings, one-way valve means for admitting pressure



fluid to said conduits, said head having pressure fluid bleed conduits for bleeding pressure fluid from said cylinders, and pet-cock means for closing off and opening said bleed conduits at will.

2,592,169

MANUFACTURE OF IRON BLUE PIGMENTS

John Owen Morrison, Chatham, N. J., and Benjamin Harrison Perkins, Brooklyn, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 24, 1946, Serial No. 685,922
4 Claims. (Cl. 23—77)

1. In a process for producing an iron blue pigment of improved texture and tinctorial qualities wherein a substantially white iron blue pigment intermediate is precipitated by reacting an acidified aqueous solution of ferrous sulfate and ammonium sulfate with an aqueous solution of sodium ferrocyanide and the resulting precipitate is digested and acidified, the improvement which comprises effecting said precipitation, digeston, and acidification in a closed reaction vessel while the reaction mass is subjected to vigorous mechanical agitation, requiring at least about 1.0 H. P. per 1000 gallons of suspension, and to such oxidizing conditions that not more than about 6% of said precipitate becomes converted to the blue, oxidized state, and thereafter converting the resulting, partially oxidized intermediate while in aqueous suspension to the final blue pigment.

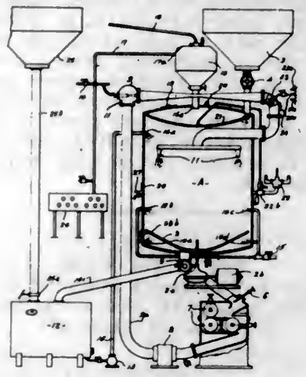
2,592,170

BREWER'S CEREAL COOKER

Ferdinand Muller, Elmhurst, N. Y.

Application June 8, 1950, Serial No. 166,892
3 Claims. (Cl. 99—237)

1. In a cereal cooker having a closed tank for cooking the grains and with a stirrer therein at its lower part, the combination of a Venturi tube at the upper part of the tank having an inlet and outlet, a flash discharge outlet within the tank and connected with the outlet of the Venturi tube, and a connection between the inlet end of Venturi tube and the lower end of the tank, whereby the contents of the tank are discharged from the flash discharge outlet into the tank at



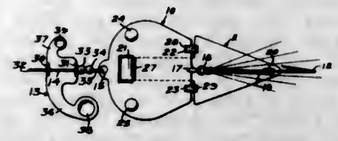
considerable speed and at a pressure higher than the pressure in the tank.

2,592,171

QUICK-CHANGE BAIT CASTING FISH LURE

Alonzo R. Munson, Sr., Shreveport, La.

Application March 2, 1950, Serial No. 147,217
2 Claims. (Cl. 43—42.18)



2. A fish lure comprising a plate like arcuate shaped body having a line attached eye formed in the forward part thereof and a hook extended upwardly from its trailing edge, said body having slots formed therethrough adjacent its trailing edge, and an elongated opening therein spaced from the leading edge thereof, a hook guiding section having hooks formed as a continuation of the leading edge positioned to extend through the slots adjacent the trailing edge of the body, said hook guiding section having a tongue formed with a roll at its forward end extending from the leading edge thereof and a slot in the trailing end thereof, the roll on the forward end of said tongue being positioned to snap through the elongated opening adjacent the leading edge of the body, a fish hook having a shank with an eye formed at one end thereof positioned over the said hook guiding section with the shank of the hook extended through the slot in the trailing end thereof and with the eye of the shank positioned over the hook on the trailing edge of the body, pork rinds carried by the hook on the trailing edge of the body and a buck tail positioned on the fish hook.

2,592,172

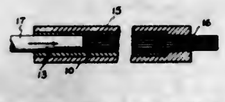
METHOD OF MANUFACTURING COMMUTATORS

Paul W. Nippert, Columbus, Ohio

Application June 13, 1947, Serial No. 754,427
3 Claims. (Cl. 29—155.54)

2. In the construction of commutators, those steps which comprise assembling a plurality of elongated segment-forming strips with intervening strips of insulation into sheaf formation in an encircling holder, the sheaf having an axial

bore extending from one end to the other, extruding the sheaf through a circular restriction while forcing the sheaf from the holder to produce inward radial compaction and reduction in diameter of the sheaf, successively applying a retaining ring around successive end portions of



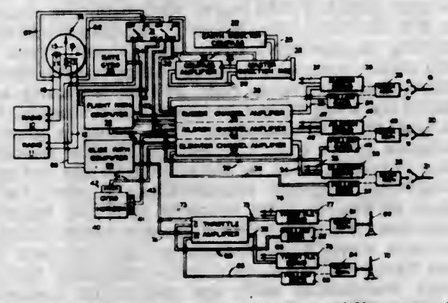
the sheaf after the diameters thereof have been thus reduced, and transversely cutting successive reduced end portions from the body of the sheaf following the insertion of each reduced end portion within a retaining ring to continuously and successively form a series of commutator annuli.

2,592,173

AUTOMATIC CONTROL OF MOBILE CRAFT

Paul A. Noxon, Tenafly, and Alan M. MacCallum, Maywood, N. J., and Alfred Bennett, Bronx, N. Y., assignors to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application October 25, 1946, Serial No. 705,524
32 Claims. (Cl. 244—77)



1. Apparatus for automatically guiding an aircraft toward a fixed point, comprising means for receiving on said aircraft radiant energy transmitted from said fixed point to provide a flight path for said aircraft toward said fixed point, means operative during craft displacement from said flight path for deriving from said received energy, notwithstanding the amount of craft displacement from said flight path, a substantially constant magnitude signal whose polarity is determined by the direction of craft displacement from said flight path, means for deriving from said signal a control potential whose magnitude is determined by the time of persistence of said signal, and means responsive to said control potential for controlling the flight of said aircraft along said flight path toward said fixed point.

2,592,174

VENTILATING APPARATUS

Edmund F. O'Connell, Westmoreland Hills, Md.

Application August 23, 1946, Serial No. 692,652
2 Claims. (Cl. 98—94)

1. A ventilating apparatus for use with the frame of a window opening, comprising an awning structure and a motor driven fan associated therewith, said structure comprising spaced, vertically disposed side plates removably secured at their inner vertical edges directly to the vertical inner faces of the window frame, said plates having downwardly and outwardly sloping outer edges and horizontal bottom edges provided with inwardly projecting flanges, a centrally apertured bottom plate supported by said bottom flanges of the side plates and removably secured thereto, and a pair of top plates supported upon and removably secured to the downwardly and outwardly sloping outer edges of the side plates and projecting laterally therefrom in overlapping relation to permit lateral



adjustment of the side plates to accommodate window openings of different sizes, means for securing the overlapping portions of the top plates in adjusted relation, means for removably securing said top plates adjacent their lower edges to the outer edge of said bottom plate, and means carried exclusively by said bottom plate for supporting the motor driven fan in concentric relation to the aperture therein.

2,592,175

MIXED THIO, OXY SILANES

Bernard A. Orkin, Philadelphia, Pa., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application August 4, 1948, Serial No. 42,535
18 Claims. (Cl. 260—448.8)

1. A process for the production of compounds having the formula, $(RO)_nSi(SR')_{4-n}$, wherein n is an integer varying between one and three, R is a radical selected from the group consisting of alkyl, cycloalkyl, and aryl radicals, and R' is a radical selected from the group consisting of alkyl, cycloalkyl, and aryl radicals; which comprises reacting a compound having the formula, $(RO)_nSiX_{4-n}$, wherein n is an integer varying between one and three, R is a radical selected from the group consisting of alkyl, cycloalkyl, and aryl radicals, and X is a halogen; with a reactant selected from the group consisting of (1) a compound having the formula, R'SH, wherein R' is a radical selected from the group consisting of alkyl, cycloalkyl, and aryl radicals, and a trialkylamine in amounts equivalent to at least one mole for each halogen atom present in each mole of said compound having the formula, $(RO)_nSiX_{4-n}$, and (2) a compound having the formula, R'SNa, wherein R' is a radical selected from the group consisting of alkyl, cycloalkyl, and aryl radicals; in amounts equivalent to an excess over that required to react with all of the halogen atoms of said compound having the formula $(RO)_nSiX_{4-n}$.

2,592,176

APPARATUS FOR INDICATING AIR SPEED IN TERMS OF THE LOCAL SPEED OF SOUND

William James Orlin, Hilton Village, Va., Herbert M. Heuver, Dayton, Ohio, and Robert E. Forrester, Flint, Mich.

Application February 19, 1946, Serial No. 648,720
9 Claims. (Cl. 73—205)



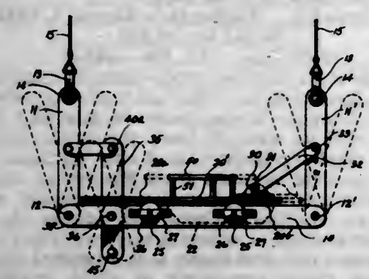
8. An apparatus for indicating the velocity of a relatively moving air stream in terms of the local velocity of sound in the atmosphere ambient to the apparatus comprising, a Venturi tube having a constricted throat section positioned downstream from the tube entrance with the longitudinal axis of said tube extending in the general direction of the air stream, means for producing a pressure difference between the entrance and the throat of said tube such that the velocity of the air stream through the tube throat is equal to the local velocity of sound, means having a static pressure opening therein exposed to the static pressure of the free air stream, apertured means to detect the static pressures within said tube at a plurality of spaced points upstream from the tube throat, differential pressure responsive means connected to said static pressure opening and to said apertured means, and indicating means actuated by said differential pressure responsive means for indicating the velocity of the free air stream in terms of the local velocity of sound when the static pressure within said tube at any one of said spaced points upstream from the tube throat is equal to the static pressure of the free air stream.

2,592,177

CHILD'S SWING

Louis W. Otis, Seattle, Wash.

Application March 18, 1950, Serial No. 150,411
5 Claims. (Cl. 155—65)



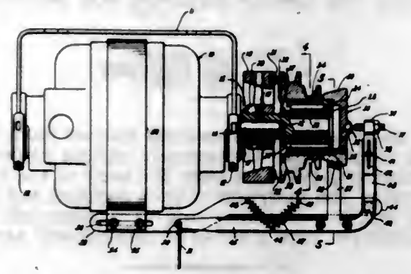
1. A swing of the character described comprising a horizontally extending seat mounting beam, suspending links for said beam, equipped with means at their upper ends for suspension from vertical supports spaced in the longitudinal direction of said beam, said links being pivotally attached at their lower ends to the seat mounting beam at its opposite ends respectively, a seat mounted on the seat mounting beam for reciprocal travel therealong, and means connecting the said seat with one of the said suspending links, to cause its reciprocal travel on the beam during swinging in accordance with change of the angular relationship of the beam and the suspending link.

2,592,178

BEARING FOR TRANSMISSION MECHANISM

Louis Palazzo, New York, N. Y.

Application March 4, 1946, Serial No. 651,774
3 Claims. (Cl. 308—207)



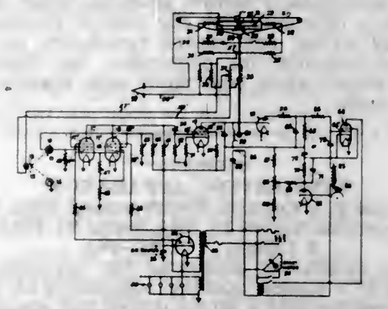
1. In a transmission mechanism of the class having a stationary member and a member movable relative thereto between two limiting positions, roller bearing means comprising two complementary races and roller elements operatively disposed between said races, one of said races being stationary and connected to said stationary member, the other of said races being movable and connected to the said movable member, each of said races containing end flanges flanking said roller elements, the flanges on the movable race being in simultaneous embracing engagement with the opposite ends of said roller elements, whereby an operative movement of the movable race will be instantly and positively transmitted to the roller elements, the flanges on the stationary race being a greater distance apart than the flanges on the movable race, the difference in distance between the said flanges on the two complementary races being equal to the distance between said two limiting positions, the said roller elements being slidably movable along said stationary race between the said flanges thereof, said last-mentioned flanges being engageable with the said roller elements to limit the movement thereof and that of the movable race to said two limiting positions.

2,592,179

RECORDING AND CONTROLLING SYSTEM

Vozcan L. Parsegian and Samuel Swedlow, New York, N. Y., assignors, by mesne assignments, to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey

Application November 26, 1945, Serial No. 630,898
8 Claims. (Cl. 346—33)



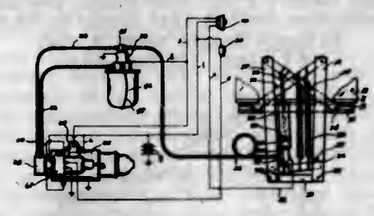
1. In a self-balancing measuring system, means for maintaining the system in a condition of balance including a motor provided with a main field coil and an auxiliary field coil, and means for impressing across said auxiliary field coil a magnitude of voltage corresponding to the departure from a condition of balance of the system, a control circuit including a thyratron tube electrically connected to said auxiliary field coil, means for impressing on the control grid of said tube a magnitude of negative bias corresponding to the magnitude of voltage in said auxiliary field coil, said thyratron tube being so arranged in the control circuit that it fires when its control grid has a predetermined minimum magnitude of negative bias corresponding to the balanced condition of the system, a solenoid having its coil connected to said tube to receive a heavy current passed by said tube on the latter's firing and rendered operable by said current, means operatively controlled by said solenoid, means electrically connected to said solenoid coil and rendered operative by a high voltage across said solenoid for quickly impressing on the grid of said tube a negative bias such as will quench the tube, and means in said control circuit for maintaining said additional bias on said tube for a predetermined time interval.

2,592,180

HYDRAULICALLY OPERATED REGULATOR MECHANISM FOR VEHICLE WINDOWS OR THE LIKE UTILIZING ENGINE STARTER MOTOR

John B. Parsons, Maumee, Ohio

Application June 16, 1949, Serial No. 99,517
1 Claim. (Cl. 60—52)



In an automotive vehicle, the combination of an electric engine starting motor, a hydraulic pump connected to be driven by said motor, regulator mechanism for moving a vehicle part between two positions of adjustment, said mechanism including a piston and cylinder assembly for driving said part towards one position of adjustment upon admission thereto of liquid under pressure and a counter spring connected in opposition to the piston and cylinder assembly for driving said part towards the other direction upon release of liquid from the piston and cylinder assembly, an electromagnetically opened, spring closed, check valve associated with said piston and cylinder assembly, said check valve being normally closed by the spring thereof to prevent the admission of liquid to the piston and cylinder assembly and to trap the liquid within the cylinder for retaining the vehicle part in adjusted position, a feed tube leading from the pressure side of said hydraulic pump to said check valve, a return tube connected to the inlet side of said pump, a bypass valve assembly having a main passage therethrough with the inlet side thereof connected to said feed tube and the outlet side thereof connected to said return tube, a reservoir also connected to the outlet side of said main passage, a normally open main valve in said main passage, a solenoid for closing said main valve upon energization thereof, said bypass valve assembly also having a relief passage leading from the inlet side of said main passage to the outlet side thereof, a pressure-responsive normally closed spring tensioned relief valve in said relief passage whereby upon occurrence of predetermined excess pressures in said feed tube said relief valve opens to connect said feed tube with said return tube and said reservoir, a source of electric power, a starter switch, electrical connections between said source, said starter switch and said starting motor whereby upon closing said starter switch said starter motor is energized and said normally open bypass valve assembly circulates liquid from said pump freely through said main passage from said feed tube to said return tube, a regulator switch selectively moveable between a plurality of positions, electrical connections between said source, said regulator switch, said starter motor, said check valve electromagnet and the solenoid of the bypass valve assembly for simultaneously energizing said starter motor, said solenoid and said check valve electromagnet upon movement of said regulator switch to one selected position and for energizing said check valve electromagnet alone upon movement of said regulator switch to another selected position.

2,592,181

SECTIONAL INNER TUBE

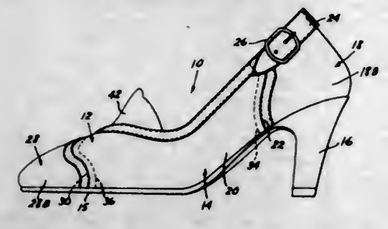
Jacob A. Parthemore, Saltsburg, Pa.

Application February 6, 1947, Serial No. 726,928
1 Claim. (Cl. 152—337)



An inner tube comprising a plurality of independent inflatable air chambers, a valve including a body portion in each chamber, the body portion being divided into a valve cylinder and an air compartment, said valve cylinder having an opening establishing communication between the air compartment and valve cylinder, said valve cylinder having an opening establishing communication between the valve cylinder and air chamber in which the body portion is positioned, a floating piston operating in the valve cylinder, said piston having a central bore extending inwardly from the bottom thereof, and extending laterally through the side thereof, said piston having a valve bore adapted to communicate with the central bore and second-mentioned opening, whereby air enters the chamber, said body portion having a central opening in the bottom thereof through which air enters the cylinder inflating the chamber and exhausting from the cylinder deflating the air chamber, springs mounted within the valve cylinder between the ends thereof and said piston, controlling the normal position of the piston when the chamber is inflated, a tube to which said body is connected and with which the body communicates, said tube having a passageway through which air enters and exhausts from the air chamber through the valve cylinder, and said tube having a passageway communicating with the air compartment of the body portion of the valve through which air under pressure is directed to one end of the piston, moving the piston to a position exhausting air from the air chamber.

2,592,182
SHOE WITH ELASTIC BACK AND ADDED FASTENING MEANS
André Perugia, Paris, France, assignor, by mesne assignments, to Anper, Inc., New York, N. Y., a corporation of New York
Application June 15, 1949, Serial No. 99,171
In France October 28, 1948
2 Claims. (Cl. 36—51)



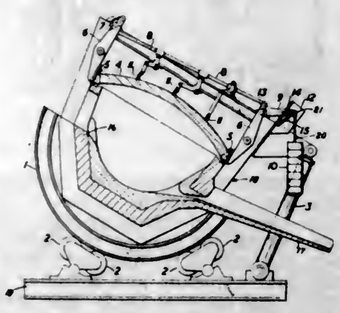
1. In a shoe, an upper the heel region of which is devoid of a counter stiffener, said upper having an inelastic quarter and an elastic part in said heel region, said elastic part conforming to the contour of the heel region of the foot and being dimensioned to resiliently engage the wearer's foot in the heel region when the shoe is worn, said elastic part extending vertically of the shoe from the heel to the edge of the foot opening and extending from the quarter at one side of the shoe around the back of the shoe tc the quarter at the other side of the shoe, said elastic part being resiliently stretchable longitudinally of the shoe and laterally of the shoe at the back thereof, and releasable and adjustable fastening means carried by said upper in said heel region thereof and externally of said upper to fasten around the back of the shoe, said fastening means being constituted by a relatively narrow strap secured to said upper and extending around the shoe rearwardly therefrom, said strap when in adjusted position but with the shoe off the foot being spaced from the margin of said elastic part with the upper edge of the strap being substantially level with the upper edge of said elastic part and overlying said elastic part only at the margin of said elastic part.

2,592,183
HOLDER FOR STICKS
Gunnard P. Peterson, Naugatuck, and Edward Noyack, Seymour, Conn., assignors to The Risdon Manufacturing Company, Naugatuck, Conn., a corporation of Connecticut
Application March 16, 1948, Serial No. 15,184
1 Claim. (Cl. 206—56)



In a holder for sticks, a single unitary tube open at one end forming a bottom shell, said tube being non-circular for at least a portion of its length, a single unitary tube open at both ends seated within the first mentioned tube and projecting from said open end thereof, said two tubes being fixed against both longitudinal and rotary movement with respect to each other and the external diameter of the first mentioned tube being greater than the external diameter of the second mentioned tube so that the first mentioned tube provides a shoulder around the exterior of the second mentioned tube, a third unitary tube open at one end and at its other end seated within the second mentioned tube and fixed against longitudinal movement with respect thereto but being rotatable with respect to said second mentioned tube, an elevator within said third tube, said third tube serving as a guide for the elevator as the elevator reciprocates within said third tube, a threaded bar projecting from said elevator, through the second mentioned tube and into the first mentioned tube, a guide member within said first mentioned tube, correspondingly non-circular, and reciprocable therein, attached to said threaded bar, a spiral connection being provided between said third tube and said threaded bar, and a cap to set over and on said second mentioned tube and against said shoulder, the internal diameter of said cap being greater than the external diameter of said third tube.

2,592,184
FURNACE ROOF OR ARCH
John Edward Pluck, Rotherham, England
Application April 23, 1948, Serial No. 22,781
In Great Britain April 29, 1947
8 Claims. (Cl. 263—46)



1. An industrial furnace tiltable from an upright position into an inclined position having a bath receiving receptacle and a roof of basic refractory material engaged at its ends by buttresses attached to the lower ends of a pair of pivotal levers coupled together at their upper ends by linkage means causing the buttresses to move equally and oppositely in response to movements of the roof due to temperature changes, in combination with support means providing for tilting the furnace with the receptacle and the roof from an upright position into an inclined position relative to the support means, lever means secured to the linkage means and to the furnace for angular movement together with the latter, said lever means being positioned upwardly inclined to the horizontal when the furnace is in its upright position, and a counterweight suspended from said lever means for balancing the roof-thrust on the buttresses, tilting of the furnace moving the lever means toward the horizontal, thereby increasing the leverage of said counterweight.

2,592,185
FOCUSING DEVICE
James P. Quam, Chicago, Ill., assignor to Quam-Nichols Company, Chicago, Ill., a corporation of Illinois
Application December 9, 1950, Serial No. 199,981
7 Claims. (Cl. 313—84)



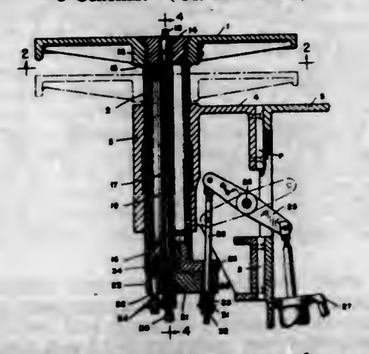
1. A magnetic structure for centering a beam of electrons including in combination, means for producing a magnetic field including a pole piece having a flat portion with a beam receiving opening therein, a centering plate having an opening therein of smaller diameter than said opening in said pole piece, said centering plate having first and second supporting portions positioned on substantially opposite sides of said opening therein and being bowed between said supporting portions, means on said pole piece for securing said first supporting portion of said centering plate thereto with said centering plate being bowed away from said pole piece, said securing means and said first supporting portion cooperating to permit sliding and pivotal movement of said first supporting portion with respect to said pole piece, resilient means operatively connected to said second supporting portion of said centering plate for holding said second portion adjacent said pole piece, whereby said centering plate is flattened against said pole piece and bears thereagainst at all points about said openings therein, said resilient means and said second supporting portion cooperating to permit sliding movement of said second supporting portion with respect to said pole piece, and control means operatively connected to said centering plate for moving said centering plate with respect to said pole piece.

2,592,186
HAIRPIN HOLDER
Rudolph E. Ratliff, Los Angeles, Calif.
Application June 4, 1946, Serial No. 674,355
6 Claims. (Cl. 211—88)



3. A device for holding hairpins and similar articles and adapted to be removably attached to a portion of a chair or similar member, including: a manually operable clamp member adapted to be removably attached to a horizontal supporting member; a pin attached to the upper surface of said clamp and extending upwardly therefrom; a generally horizontal arm attached to said pin for rotation about a generally vertical axis; a generally vertical member; means attached to said horizontal arm to releasably hold said vertical member whereby the vertical position of the latter may be varied; a generally horizontal supporting arm attached to the upper end of said vertical member for rotation about a generally vertical axis; and a tray attached to the free end of said supporting arm adapted to receive a magnet to attract and hold ferro-magnetic articles.

2,592,187
AUTOMATIC GUIDE PIN FOR ROUTING MACHINES
Karl Rohrer, Chicago, Ill., assignor to Onsrud Machine Works Inc., Chicago, Ill., a corporation of Illinois
Application October 9, 1948, Serial No. 53,675
3 Claims. (Cl. 144—137)

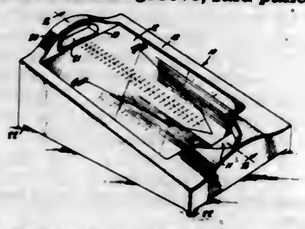


1. An automatic guide means for a router having a work table mounted on a vertically shiftable support column and including operating means for raising and lowering said column, said work table being provided with a vertical opening therethrough, said guide means comprising a carrier mounted in the table opening and vertically reciprocable therein, a guide pin mounted at the upper end of said carrier for reciprocation therewith, said carrier and guide pin being normally disposed below the table work surface, an operating member mounted on said carrier and shiftable vertically independently of the table support column, and means on said operating member engageable by the support column operating means as the latter is first actuated to raise the support column whereby the operating member will be shifted to raise said carrier upwardly in advance of the support column.

2,592,188
FOOT MEASURING DEVICE
Maurice J. Rosenberg and David W. Rosenberg, Baltimore, Md.
Application March 21, 1947, Serial No. 736,330
1 Claim. (Cl. 33—3)

A foot measuring device comprising a frame member, a heel receiving ledge at the forward end of the frame member, said frame member having an inwardly extending ledge member, a plurality of lugs extending inwardly from the frame member, said lugs being spaced from the ledge member forming therewith a groove, a slot formed in the rear wall of the frame member to

form an entrance to said groove, and a removable panel received in said groove, said panel comprising a lower supporting wall, an intermediate chart member and a transparent top wall.

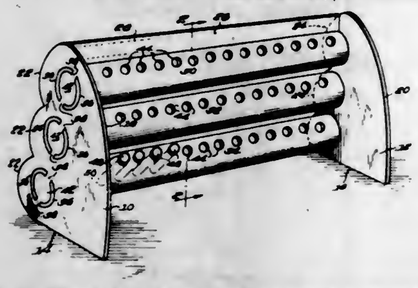


2,592,189

STORE COUNTER DISPLAY STAND

Lillian Rothrock, Blytheville, Ark.

Application February 2, 1949, Serial No. 74,192
5 Claims. (Cl. 211—60)



1. A store counter display stand comprising transparent spaced vertical end members, an article support extending between and secured at its ends to said end members, said end members extending substantially to the rear of said article support, and a strip of transparent material extending between and fixed to said end members, and arranged in close proximity to said article support above and in front of articles which may be supported thereby, and extending upwardly substantially above said support so that supported articles may be easily withdrawn from said support only from the rear of said stand.

2,592,190

ILLUMINATED SPECULUM

Harry S. Rubens, Manhasset, and Ignaz Suwa, Jackson Heights, N. Y., assignors to National Electric Instrument Company, Inc., Elmhurst, N. Y., a corporation of New York

Application August 27, 1948, Serial No. 46,442
1 Claim. (Cl. 128—6)



An instrument of the type described comprising a pair of hingedly connected members carrying complementary blades defining a substantially funnel-shaped speculum, a metallic cylinder secured to the inner surface of one of said members, a metallic cross tube at the top of said cylinder forming a light bulb carrier having the major part thereof mounted adjacent the wall of one of said blades in position to direct rays of light from a bulb in the carrier toward the objective end of the speculum, the rear end of said carrier extending beyond the rear edge of said speculum, a cap attached to the rear end of said carrier to close said end and to retain a bulb therein, said cap being removable from the carrier to make a bulb therein accessible outside the confines of said speculum for removal and replacement while the major part of the carrier is within the speculum, and means for conducting electrical energy to a bulb in said carrier, said means having as part thereof said cap which when attached to the carrier completes the energizing circuit.

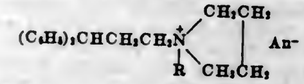
2,592,191

QUATERNARY AMMONIUM SALTS OF N-(3,3-DIPHENYLPROPYL)PYRROLIDINE

Arlo Wayne Ruddy, Albany, N. Y., assignor to Sterling Drug Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application September 16, 1949, Serial No. 116,226
6 Claims. (Cl. 260—313)

1. A quaternary ammonium salt of the formula



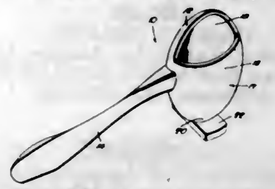
wherein R is a member of the group consisting of lower-alkyl and lower-aralkyl radicals and An⁻ is a non-toxic anion.

2,592,192

SPOON WITH A BASE

Charles H. Sanford, New York, N. Y.

Application February 17, 1950, Serial No. 144,615
1 Claim. (Cl. 30—327)



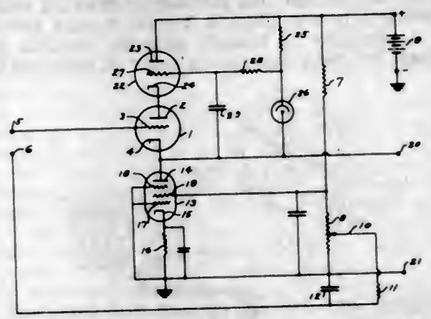
A spoon comprising a bowl, a cover for the top of said bowl extending from the rear end thereof and terminating rearwardly of the forward end of the bowl for closing the rear top part of the bowl and leaving an open top portion at the forward part of the bowl for filling the spoon and dispensing the contents thereof into the mouth of the user, and a side handle secured to the spoon at a point between said rear and forward ends of the bowl and extending laterally from the side of the spoon and rearwardly inclined toward said rear end of the spoon whereby to facilitate use of the spoon by a young child, the rear end of the spoon and the outer end of said handle lying in substantially the same plane when the spoon is positioned vertically with said rear end lowermost, said rear end having a part which is sufficiently wide to provide with the outer end of the handle a base for the spoon to support the latter in said vertical position thereof.

2,592,193

MEANS FOR REDUCING AMPLITUDE DISTORTION IN CATHODE-FOLLOWER AMPLIFIERS

Norman B. Saunders, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War

Application March 3, 1949, Serial No. 79,488
4 Claims. (Cl. 179—171)



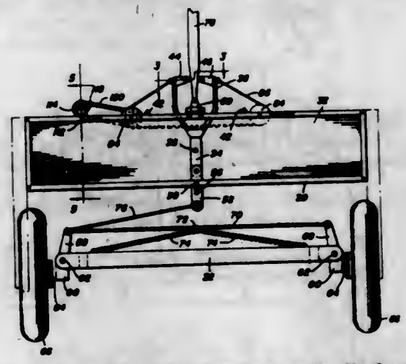
1. An amplifier comprising an amplifying tube having an anode, a cathode and a control grid, means for connecting a source of input signal between said control grid and a point of reference potential, impedance means connected between said cathode and said point of reference potential, a source of direct current, means connecting the negative terminal of said source to said point of reference potential, means for connecting the positive terminal of said source to said anode, additional means forming part of said last named means for maintaining a substantially constant potential difference between said anode and cathode, said additional means comprising a variable resistance device and means for controlling the resistance thereof in accordance with the potential of said cathode, and means for connecting a load circuit across said impedance means.

2,592,194

STEERING MECHANISM FOR WHEELED FRAMES

Harry L. Schmalzried, North Manchester, Ind.

Application October 22, 1948, Serial No. 55,934
4 Claims. (Cl. 280—95)



1. In a machine for hauling and discharging material including a wheeled frame having a pair of steering wheels and a connecting member terminally pivoted to said steering wheels, a steering mechanism comprising a horizontally swingable member pivoted on said frame and connected to said connecting member, a pair of horizontally disposed pulleys on said frame, said member extending between said pulleys, a flexible element trained over said pulleys and terminally attached to said member, a sprocket attached to and rotatable with one of said pulleys, a second sprocket rotatably supported on said frame, a sprocket chain about said sprockets, and a steering post rising from the frame and attached at its lower end to the second sprocket.

2,592,195

HETEROCYCLIC NITROGEN COMPOUNDS

George Schwarz, Rochester, N. Y., and Polydoor Frans De Smet, Wilrijk-Antwerp, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium

No Drawing. Application August 29, 1947, Serial No. 771,401. In Great Britain December 20, 1939
13 Claims. (Cl. 260—302)

1. The process which comprises reacting a heterocyclic nitrogen base containing a five to six-membered heterocyclic ring, said ring having a reactive group which enters into a cyanine dye condensation in a position taken from the group consisting of alpha and gamma positions to the heterocyclic nitrogen atom with a polyfunctional organic hydrocarbon compound containing at least one non-aromatic carbon atom and a plurality of functional groups, each of which is attached to such non-aromatic carbon atom and forms quaternary ammonium salts with ternary nitrogen compounds, at least one mol of said base being used for each functional group.

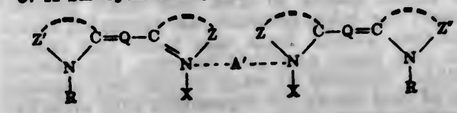
2,592,196

METHINE DYESTUFFS AND THEIR MANUFACTURE

George Schwarz, Rochester, N. Y., and Polydoor Frans De Smet, Wilrijk-Antwerp, Belgium, assignors to Gevaert Photo-Producten N. V., Mortsel-Antwerp, Belgium, a company of Belgium

No Drawing. Application August 29, 1947, Serial No. 771,402. In Great Britain December 28, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires December 28, 1959
5 Claims. (Cl. 260—240.1)

5. A bis-cyanine dye of the general formula:



wherein Z and Z' constitute the atoms necessary to complete an azole nucleus, Q is a trivalent bridging radical of the type usual in cyanine dyes radical which forms a conjugated chain of atoms between the intracyclic nitrogen atoms of the two adjacent azole nuclei, A' is a polymethylene radical, R is a hydrocarbon radical taken from the group consisting of alkyl and aralkyl radicals, and X is the negative radical of an acid.

2,592,197

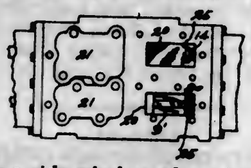
SIDE-PLUG HYDRAULIC CELLAR GATE

Frank J. Schweitzer, Jr., Brea, Calif.

Application October 27, 1947, Serial No. 782,363
1 Claim. (Cl. 137—139)

A side-closing, well cellar gate assembly characterized by and including a shell having a flow hole from top to bottom and a gate chamber opening laterally from said hole and having inner

top and bottom gate guiding faces and a ram gate slidably fitting said faces and having an axis of motion at a right angle to the axis of said hole for opening and closing functions; said



shell having a side window whose top and bottom faces are coplanar with said chamber faces and said window being located at the locale of valve open position in the shell, and a side closure for the window.

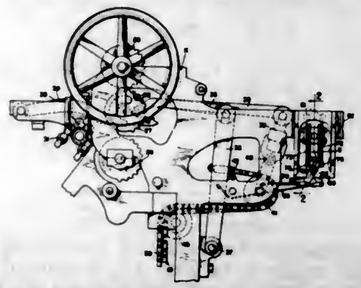
2,592,198
MOTOR-DRIVEN SHAVER
George Allan Seeley, New Haven, Conn., and George E. Seeley, Worcester, Mass.
Application November 29, 1947, Serial No. 788,878
3 Claims. (Cl. 30—43)



1. A hair cutting device comprising, an elongated casing containing a motor, a motor-driven shaft extending from one end of said casing, cutter blades removably carried upon the distal end of said shaft, a hollow cylindrical housing removably mounted upon one end of said casing so as to surround that portion of said shaft between said casing and said cutter blades, a cylindrical table having a central aperture and disposed entirely between the free end of said housing and said cutter blades so that said shaft projects through the table aperture, an elongated sleeve projecting axially from said table and spaced from said shaft and said housing, ball-bearing members disposed at each of the two opposite ends of said sleeve for supporting said table upon said housing for free rotation independently of said shaft, and a cutter guard removably mounted upon said table and having a perforated portion surrounding said cutter blades for cooperation with the cutting edges thereof, with said table, sleeve, bearings and housing being attachable as a unit assembly to said motor casing.

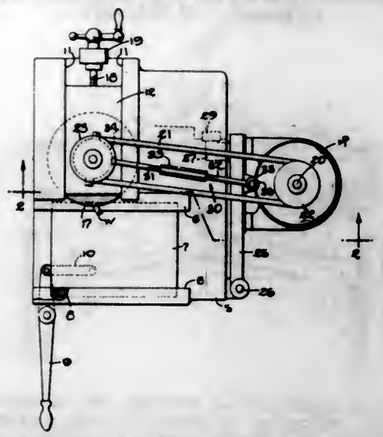
2,592,199
ELECTRIC WEFT DETECTING SYSTEM FOR DROP BOX LOOMS
Victor F. Sepavich and Robert A. Donnan, Worcester, Mass., assignors to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application December 6, 1949, Serial No. 131,379
15 Claims. (Cl. 139—233)

1. In an electric weft detecting system for a loom having a gang of shifting shuttle boxes, shuttle box operating mechanism effective to shift the shuttle boxes relatively to the lay during a box shifting interval, a gang of electrically indicating weft detectors, one detector for each shuttle box, the gang moving during a box shifting interval to maintain each detector in register with the shuttle box corresponding thereto, said detectors capable of indicating weft exhaustion during a detecting period occurring during the shuttle box shifting interval, a source of electric power, electric circuit means providing a plurality of branch detector circuits, one branch for each detector, a relay in each branch



detector circuit which is energized when the corresponding detector indicates weft exhaustion, an indicating contact for each relay closed and maintained closed by the relay subsequent to the detecting period upon closure of the associated branch detector circuit, selector electric switch means, and an electromagnetic device which when energized effects loom stoppage, said selector switch means operated by the shuttle box shifting mechanism and effective incident to closure of an indicating contact corresponding to the shuttle box next to be active to cause energization of said electromagnetic device.

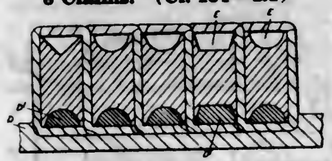
2,592,200
MACHINE TOOL SPINDLE DRIVE
Harold N. Seyferth, East Detroit, Mich., assignor to Ex-Cell-O Corporation. Detroit, Mich., a corporation of Michigan
Application February 8, 1950, Serial No. 143,030
2 Claims. (Cl. 51—134.5)



1. In a machine tool, in combination, a frame, a slide supported for reciprocation on said frame, a spindle journaled on said slide with its axis normal to the reciprocatory path of the slide, a rotary motor having a shaft, means supporting

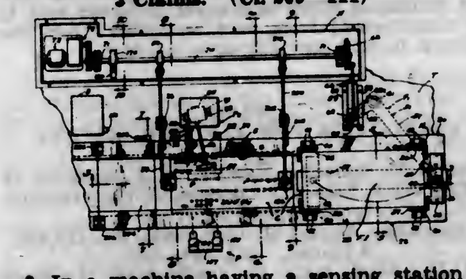
said motor at one side of said slide with its shaft disposed parallel to the axis of said spindle, said supporting means comprising a rigid plate pivotally mounted at one end on said frame at one side of said spindle to swing about an axis parallel to the axis of the spindle whereby to shift the motor shaft laterally toward or from the slide, means at the other end of said plate coacting with bearing means on said frame for supporting and guiding the free end of the plate in its swinging movements, an endless belt drivingly connecting the motor shaft and said spindle, a rigid strut connected for pivotal movement about the axis of said spindle at one end and at the other end to said motor supporting means operative to swing the supporting means in response to movements of the slide so as to maintain the spacing of the spindle and the motor shaft substantially constant in all positions of the slide, said strut being disposed in a plane normal to the axes of said spindle and the motor shaft to enable it to relieve the slide of transverse strains incident to the pull of the belt, and means forming a part of said strut adjustable to vary the effective length of the strut and thereby regulate the tension of said belt.

2,592,201
MANUFACTURE OF PILE FABRICS
Percy Shaw, Boothtown, Halifax, England
Application November 12, 1949, Serial No. 126,744
In Great Britain November 15, 1948
8 Claims. (Cl. 154—1.1)



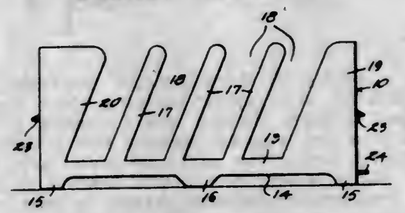
1. A process for manufacturing pile fabrics for floor coverings comprising the steps of winding a length of yarn about a channel member having one side formed with a recess therein; pressing the said side of said channel member with said yarn wound there around into a heated base member made of a material which flows under heat so that the material of the base member flows around the yarn extending across said recess in said side of said channel member, whereby said yarn is embedded in said base member; and removing said channel member from said base member and yarn.

2,592,202
PHOTOELECTRIC SORTING DEVICE
Clyde Smith, Hopkinsville, Ky., assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application September 12, 1947, Serial No. 773,607
3 Claims. (Cl. 209—111)



3. In a machine having a sensing station at which sensing operations may be performed on sheets each bearing a data field including index positions at which positionally coded data representations may be afforded and each bearing a pair of spaced position-determining marks, means for feeding a sheet out of said sensing station, a sheet rejecting guide member, sensing means comprising an illuminating means adapted to direct light onto said marks, a pair of photo-sensitive devices focused individually to receive light reflected from the respective areas to be occupied by the position-indicating marks on a sheet when such sheet is in a predetermined position at said station, means operable under control of said sensing means to disable said feeding means when neither of the marks of a sheet at said sensing station is detected, and means operable under control of said sensing means when but one such mark is sensed to render said feeding means and said sheet rejecting means effective.

2,592,203
RACK FOR HOLDING SLICES OF TOASTED BREAD AND THE LIKE
Joseph Snyder, Washington, D. C.
Application January 12, 1951, Serial No. 205,623
2 Claims. (Cl. 211—13)



1. A rack for toasted bread comprising a pair of upright side members, and end members connecting said side members together, each side member being formed with obliquely inclined slots extending downwardly from the upper edges thereof to thereby form opposed slice supporting arms, each of said end members comprising a pair of upright bars integral with said side members, upper and lower connecting bars fixed between said upright bars, and an intermediate bar fixed between said upright bars and formed with a twisted horizontal intermediate portion constituting a handle.

2,592,204
MINERAL OIL COMPOSITION
John F. Socolofsky, Woodbury, and Ralph V. White, Pitman, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
No Drawing. Application February 15, 1949, Serial No. 76,647
7 Claims. (Cl. 252—34)

1. A mineral oil which normally permits rusting and staining of ferrous metal surfaces in the presence of salt water, containing a minor proportion, sufficient to prevent said rusting and staining of an ester product of malic acid obtained by reacting malic acid with a short-chain, aliphatic alcohol having between about six and about eight carbon atoms per molecule, and with a long-chain, aliphatic alcohol having at least about twelve carbon atoms per molecule, in a molar proportion of about 1:8–1.6:1.2–0.4, respectively, at a temperature varying between about 120° C. and about 140° C., concurrently removing the water of esterification as it is evolved; adding a hydrocarbon solvent which

forms an azeotropic mixture with water, removing essentially all of the remaining water of esterification formed in the reaction by azeotropic distillation at a liquid temperature varying between about 130° C. and about 150° C.; treating the resulting reaction mixture with a basic nitrogen compound selected from the group consisting of ammonia and organic amines, at a temperature varying between about 90° C. and about 100° C.; and separating the thus treated ester product from said hydrocarbon solvent.

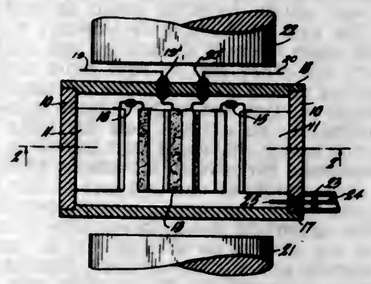
2,592,205
LEVER AND TOGGLE ACTUATED LOG GRIPPING DEVICE
Charles South, deceased, late of Idaho Falls, Idaho, by Dorothy Mae South, administratrix, Idaho Falls, Idaho
Application February 7, 1949, Serial No. 74,954
1 Claim. (Cl. 143—126)



In a device of the character described, the combination of a carrier having a strap shaped element slidable therein and including a side plate provided with an opening and a laterally extending bracket on said side plate, a locking lever pivotally attached to said bracket, a pressure transmitting member carried by said lever, a pressure exerting member slidable in said opening and abutting said element, and a link pivotally connected at opposite ends thereof to the respective pressure transmitting and exerting members, whereby the latter may be frictionally engaged with said element to lock the same against sliding in said carrier, said lever including an inner portion pivoted to said bracket and provided with a socket having said pressure transmitting member slidable therein and with a screw-threaded bore communicating with said socket, a screw-threaded handle extending into said bore and abutting the pressure transmitting member whereby the latter may be slidably adjusted in the socket by rotation of said handle, and a lock nut provided on said handle and abutting said inner portion whereby the handle may be locked against rotation.

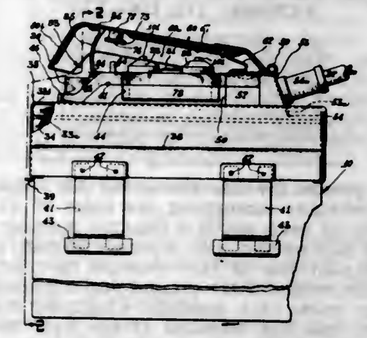
2,592,206
MAGNETRON
Robert L. Sproull, Penns Neck, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 16, 1946, Serial No. 654,934
23 Claims. (Cl. 313—157)

1. An electron discharge device having a plurality of anode elements defining a space, means including a cathode positioned within said space to supply electrons therein and means adjacent said anode elements for generating a magnetic field within said space parallel to the longitudinal axis of said cathode whereby electrons from said cathode are made to travel curved paths during operation of said electron discharge device, said cathode having a plurality of coated emitting surfaces and uncoated surfaces thereon, the space between said cathode and said anode elements being unobstructed, said coated surfaces being disposed out of the paths of electrons leaving the cathode surface and returning to the cathode surface along curved paths.



23. An elongated cathode having a plurality of outwardly-projecting longitudinal ribs each having two exterior side faces, alternate side faces only being coated with emitting material.

2,592,207
PORTABLE BATTERY
Willson Y. Stamper, Newark, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application January 29, 1946, Serial No. 644,062
5 Claims. (Cl. 136—170)

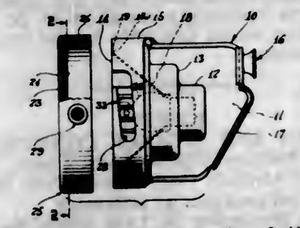


1. In a battery for mine lamps including a case and a pair of output terminals: the combination of a cover for said battery movably connected to said case, charging terminals for said battery rendered accessible by moving said cover to a partially-open position, a removable filler-opening closure for said battery arranged in relation to said cover so that the same is rendered accessible only when the cover is moved beyond said partially-open position, a latch for limiting the opening of said cover to said partially-open position, and a switch in part common with said latch for causing said battery to be connected to said output terminals when said cover is closed and to be disconnected from said terminals when the cover is in said partially-open position.

2,592,208
BEZEL LOCK FOR ELECTRIC SAFETY LAMPS
Willson Y. Stamper, Newark, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Application August 31, 1949, Serial No. 113,407
3 Claims. (Cl. 240—19)

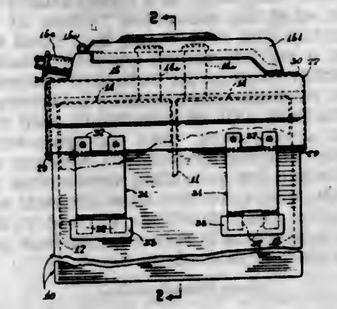
1. In a safety lamp: the combination of a lamp casing having an opening for emission of light

therefrom, a bezel for holding a glass on said casing, said bezel having a flange telescoping with the rim of the casing around said opening, a bayonet joint for securing said bezel to said casing comprising hollow studs on said flange having inwardly-extending heads forming coupling members, and exterior grooves in said rim for receiving said coupling members, each of said grooves leading inwardly from the edge of the rim and having an extending portion leading partially about the rim at a slight angle to the edge thereof, said coupling members being respectively engageable with said grooves and effec-



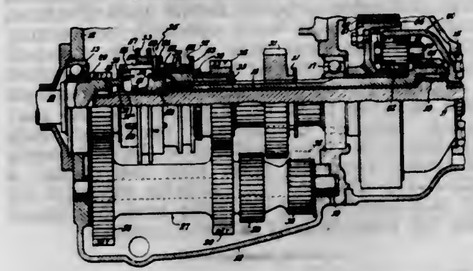
tive upon turning said bezel relative to said casing to secure the bezel thereto, and means for locking said bezel in a tightened position comprising a locking screw threaded in the inner portion of one of said studs and engaging the bottom wall of the respective one of said grooves, said locking screw having an outer end portion adapted to receive interlockingly an adjusting tool of lesser diameter than that of said screw by way of the outer portion of said one stud, and the outer portion of said stud having a clearance hole for said adjusting tool substantially smaller in diameter than the diameter of said locking screw.

2,592,209
CARRYING CASE FOR PORTABLE BATTERIES
Willson Y. Stamper, Newark, N. J., assignor to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey
Original application January 29, 1946, Serial No. 644,062. Divided and this application September 29, 1949, Serial No. 118,611.
2 Claims. (Cl. 224—5)



1. In a carrying case for a portable battery: the combination of a lower case section open at the top, said case section having at its upper end two outwardly-extending ribs respectively along opposite sides thereof and having external recesses in its opposite end walls extending downwardly from the top edge thereof; a lid on said case section for closing the latter; a metal retaining band embracing the upper portion of said lid for securing said lid to said case section, said band comprising two straps extending along opposite sides and around the corners of said case, each of said straps having a channel portion embracing one of said ribs and the adjacent portion of said lid and having inwardly-bent, hooked end portions along the major portion of the width thereof lying in said recesses respectively, said hooked end portions being inclined to the central medial plane of the case so that the hooked end portions in each recess diverge from each other in going in the direction from the bottom to the top of the case; tensioning members in said recesses having diverging hooked end portions slidably interlocked with the hooked end portions of said straps and effective to draw the straps against the case as the tensioning members are forced upwardly into said recesses; and tabs on the upper ends of said tensioning members adapted to be bent over the edge of said lid to hold the tensioning members in their tightened positions.

2,592,210
TRANSMISSION
Benjamin A. Swennes, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 1, 1945, Serial No. 608,255
28 Claims. (Cl. 74—740)



1. In a transmission, the combination of a drive shaft, a driven shaft, means for providing a power train between said shafts and including a positive clutch for conditioning the power train for operation and a friction engaging means for completing the power train, means for providing another power train between said shafts and including a positive clutch and not including said friction engaging means, means for providing a third power train between said shafts, said last-named power train including a positive clutch for conditioning the power train for operation and including said friction engaging means for completing the power train, and one-way engaging means operative in said second power train and rendered inoperative during completion of said third power train when said friction engaging means is engaged whereby the third power train may be completed while the second power train is operative, the positive clutch in said second power train being engageable while the first power train is operative.

2,592,211
SOLUBLE INTERPOLYMERS OF DIALLYLIC MALEATES AND ALLYLIC CHLORIDES
Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 12, 1948, Serial No. 59,788
6 Claims. (Cl. 260—78.5)

1. An acetone-soluble unsaturated binary interpolymer of a mixture of monomeric di-2-alkenyl maleate with 0.2 to 6.0 molar equivalents of

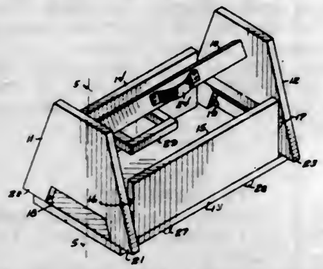
a monomeric 2-alkenyl chloride, said interpolymer containing residual unsaturation and being capable of further polymerization, the alkenyl group in each instance being an aliphatic group having from 3 to 4 carbon atoms.

2,592,212

NURSING BOTTLE HOLDER AND KIT

Frank L. Turner, Roanoke, Va.

Application April 21, 1950, Serial No. 157,315
2 Claims. (Cl. 224—48)



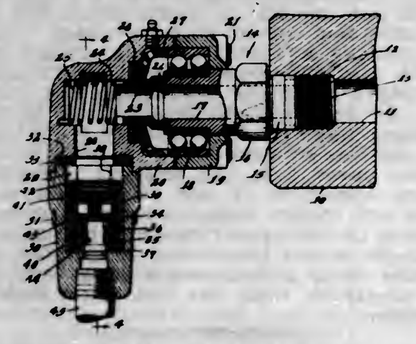
1. In a nursing bottle carrier, the combination which comprises a bottle holder having spaced parallel end panels with upwardly converging edges and connected with a centrally disposed longitudinally positioned bar, said bar mounted in an inclined position and having a resilient bottle carrying strap on the intermediate part thereof, parallel horizontally positioned rails mounted on the inner surfaces of the end panels and spaced from the lower ends thereof and a horizontally disposed tray slidably mounted on said rails and having extended ends positioned below the lower ends of said end panels.

2,592,213

QUICK RELEASE VALVE MECHANISM

Harry H. Vandersee, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin

Application December 27, 1945, Serial No. 637,443
2 Claims. (Cl. 277—45)



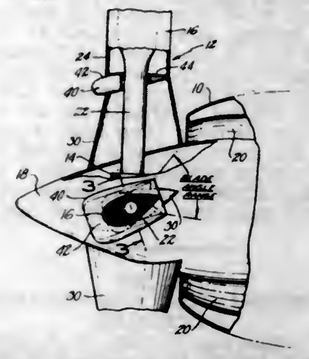
1. A quick release valve mechanism comprising a housing having an inlet chamber connectible to a source of pressure fluid, an outlet chamber and an exhaust port, a sleeve valve in the housing shiftable between positions masking and unmasking the port when the pressure in the inlet chamber is substantially higher and lower, respectively, than that in the outlet chamber and having an internal valve seat, a piston valve slidable in and having parts connected to the sleeve valve for biasing the piston valve to normally engage the seat for controlling primary flow through the sleeve valve from the inlet to the outlet chamber and a bleed passage through the piston valve providing constant communication between the chambers, the piston valve, when the inlet chamber pressure is controlling, initially moving the sleeve valve to mask the port and thereafter moving relative to the sleeve valve to connect the chambers through the sleeve valve and moved in the opposite direction when the outlet chamber pressure is controlling to cause the sleeve valve to unmask the port, the piston valve tending to reengage the seat as the pressures in both chambers approach equalization and the bleed passage enabling the maximum pressure to be built up slowly in the outlet chamber in the final stages of equalization.

2,592,214

PROPELLER AND SPINNER CONSTRUCTION

Rudolf N. Wallace, Glastonbury, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application November 26, 1949, Serial No. 129,608
3 Claims. (Cl. 170—160.23)



1. An aircraft propeller construction comprising a spinner, a variable pitch propeller blade extending radially from the spinner including a shank portion and an enlarged main portion of airfoil shape, said main portion terminating at its inboard extremity in a substantially curved chordwise edge, an elongated fairing of airfoil shape surrounding said shank and fixed to said spinner at a predetermined angle of attack, said fairing terminating at its outboard extremity in a surface running substantially transversely to the longitudinal axis of said blade, said surface having an area greater than the cross-sectional area of said fairing, and means forming a part of said surface for providing continuous juxtaposed relation between said edge and said surface in the varied pitch positions of said blade including a substantially spherical surface portion disposed adjacent said edge.

2,592,215

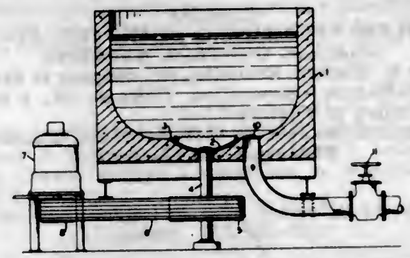
APPARATUS FOR SUBJECTING MATERIALS TO A DISINTEGRATING OR PULPING TREATMENT

Kurt Wandel, Honey Brook, Pa.

Application July 4, 1945, Serial No. 603,181
8 Claims. (Cl. 92—23)

1. Disintegrating apparatus having, in combination, a vat adapted to contain water and the material to be disintegrated and a disintegrating impeller in said vat comprising a concave disk having its main body portion of hollow spheroidal

configuration, the radius of curvature of said body portion being approximately equal to the diameter of the disk, said disk being rotatable about an axis in respect to which it is symmetrical and having a multiplicity of marginal teeth projecting from its concave side into the path of the water borne material travelling outwardly



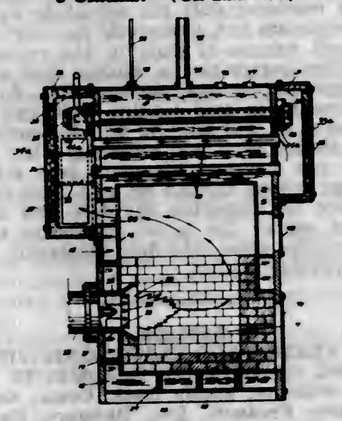
on and in intimate contact with said concave side from the axis of rotation under the action of centrifugal force and means for supporting said disk for rotation at high peripheral speed, including a driving shaft projecting through a wall of said vat and upon which said disk is mounted with its concave side uninterruptedly exposed to the vat contents.

2,592,216

RETURN FIRE TUBE BOILER WITH INDIRECTLY HEATED DOMESTIC SUPPLY

Albert Edward Watts, Montreal, Quebec, Canada

Application January 2, 1947, Serial No. 719,689
3 Claims. (Cl. 122—33)



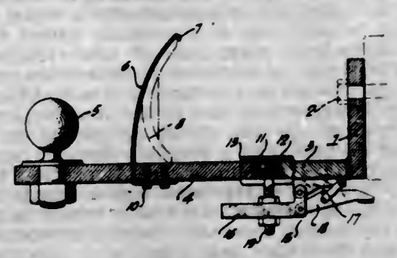
1. In a boiler, a boiler shell, an inner casing having a fire box within the same, fire tubes extending longitudinally through the upper portion of said boiler shell and secured in holes in the walls of the same, a front boiler cover and a rear boiler cover fixedly secured to the outer surface of said boiler shell and forming gas chambers in which said fire tubes terminate, a passageway leading from the fire box into the rear gas chamber, a baffle plate located within said rear boiler cover and dividing said fire tubes into two groups and directing the flow of hot gases therethrough, mounting plates in said front and rear covers secured to the outer surface of said boiler shell, domestic hot water tubes extending longitudinally through said boiler shell and said mounting plates the open ends of said water tubes being securely joined to said boiler shell and said mounting plates, rear and front caps in said rear and front covers secured to said mounting plates forming water compartments into which the open ends of said water tubes terminate, inlet and outlet pipes connected to said rear cap, auxiliary tubes of smaller diameter extending through said water tubes, bosses on the inner surface of said front cap adapted to receive one of the ends of each of said auxiliary tubes, a partition in said rear cap subdividing said rear water compartment into sub-compartments, threaded bosses on the inner surface of said rear cap, threaded members adapted to enter holes in the outer wall of said rear cap and to be secured in said bosses, said threaded members being recessed to receive and tightly seal the remaining circumferential extremities of said auxiliary tubes, and a quantity of water throughout said boiler which will surround said fire tubes, said domestic water tubes and a portion of the fire box.

2,592,217

TRAILER HITCH WITH A DETACHABLE COUPLING MEANS

Robert W. Weber, Long Beach, Calif., assignor of fifty-one per cent to John B. Hitchings, Long Beach, Calif.

Application May 6, 1950, Serial No. 160,459
3 Claims. (Cl. 280—33.44)



2. A trailer hitch including a bracket adapted to be secured to the frame of a towing vehicle, a towing plate, a coupling ball on said towing plate, a step lock on said bracket, a complementary step lock on said towing plate, said step locks being inter-engageable, and a sleeve slidably mounted on said towing plate and movable over said step locks, a bracket mounted on said towing plate, said bracket being engageable with the rear bumper of the towing vehicle, a latch vice pivotally mounted on said bracket, a stud on said vice engageable with the bottom face of the towing plate and under said step locks, and an actuating arm on said vice to swing said stud into engagement with the towing plate.

2,592,218

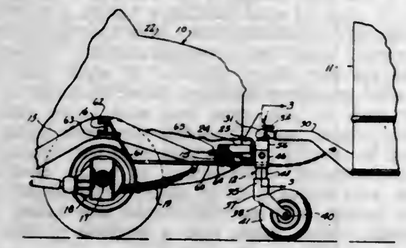
COPOLYMERS OF ALLYL ACETAMIDES

Cyrus A. Weisgerber, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 19, 1948, Serial No. 61,124
8 Claims. (Cl. 260—78.5)

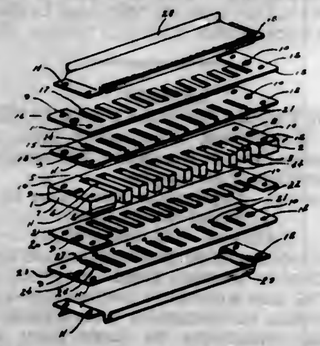
1. The process of preparing a copolymer of an allyl acylamide selected from the group consisting of allyl and methallyl acetamides and a copolymerizable, ethylenically unsaturated organic compound, containing no more than 2 double bonds, which comprises heating a mixture of the allyl acylamide and the copolymerizable compound in a molar ratio of from about 1:7 to about 1:1, respectively, in the presence of a peroxide catalyst.

2,592,219
TRAILER HITCH DOLLY
Leonard R. West and Overby B. Sterett, San Diego, Calif.
Application May 31, 1950, Serial No. 165,266
4 Claims. (Cl. 280—33.4)



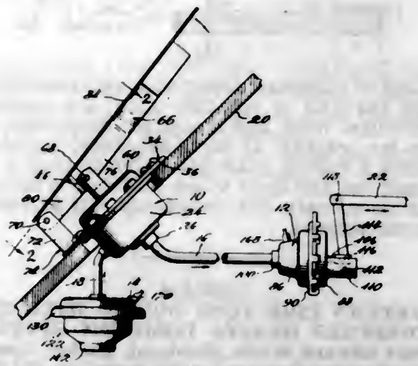
1. In combination with a towing vehicle and a trailer, a trailer hitch dolly for connecting the front end of the trailer vehicle to the rear end of the towing vehicle and supporting the weight of the front end of the trailer vehicle comprising a hollow piston, an arm secured at one end to said piston and rigidly secured to said towing vehicle for permanently connecting said dolly to the towing vehicle, a hollow cylinder receiving said piston in one end of said cylinder, a wheel fork extending from the other end of said cylinder, a wheel axle carried by said fork at a location spaced from the longitudinal center line of said cylinder, a wheel journaled on said axle, a compression spring disposed between said cylinder and said piston for resiliently supporting said piston in said cylinder, an abutment for said spring adjustably carried by said cylinder, and a coupling element carried by said piston at the end of the latter remote from said cylinder for engagement with a complementary coupling element on a trailer vehicle to provide a pivotal and separable coupling between said dolly and the trailer, said wheel being effective to support the weight of the front end of the trailer vehicle and said spring abutment being adjustable to accommodate the distance between said wheel axle and said arm to the height of the rear end of the tractor vehicle above the ground.

2,592,220
REED INSTRUMENT AND METHOD OF MANUFACTURING SAME
Charles E. Wetzler, Long Island City, N. Y.
Application May 15, 1947, Serial No. 748,153
4 Claims. (Cl. 84—377)



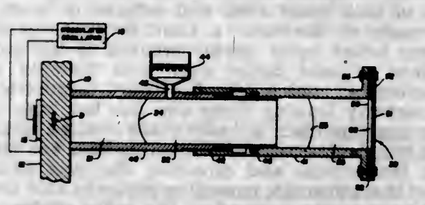
1. In a reed instrument, the combination of a body having air chambers, a number, including one, of reed plates having spaced apertures and being mounted on said body, a plurality of blow and draw reeds respectively provided on said reed plates in coordination with said apertures and at least one gasket having apertures corresponding to the air chambers of said body and the apertures of the reed plates and being adapted to seal air gaps between said body and said reed plates.

2,592,221
FLUID STABILIZING MEANS FOR HYDRAULIC CONTROL SYSTEMS
John B. Whitted, Evanston, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application July 27, 1943, Serial No. 496,355
4 Claims. (Cl. 60—54.5)



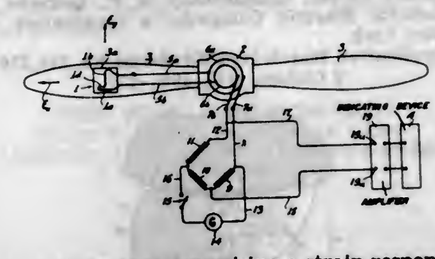
1. In a hydraulic control system which includes a receiving unit for actuating an operated mechanism and a reservoir for maintaining a constant volume of fluid in the system, the combination comprising a sending unit adapted to be connected to said receiving unit, fluid displacing means in said sending unit, ball check valve means in said sending unit for controlling communication with said reservoir, a leaf spring fixed at one end and biased to seat said ball valve, and means carried by said fluid displacing means for engaging the free end of said spring to render the latter ineffective to seat said ball valve when said fluid displacing means is in retracted position.

2,592,222
LENS SYSTEM FOR ULTRASONIC VIEWING OF DEFECTS IN OBJECTS
Ross E. Williams, Sandy Hook, Conn., assignor to Sperry Products, Inc., Danbury, Conn., a corporation of New York
Application April 27, 1949, Serial No. 90,032
4 Claims. (Cl. 73—67)



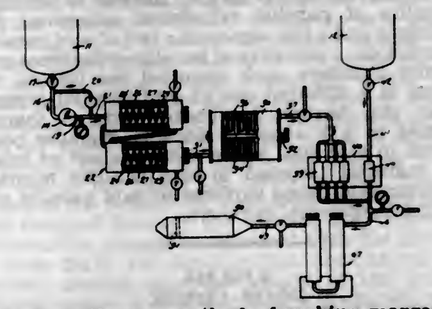
1. In the ultrasonic inspection of objects, means for transmitting ultrasonic waves through one surface of the object, a device for indicating defects within the object, said device comprising a lens system, said lens system comprising a pair of end units and an intermediate unit, the acoustic velocities of the end units differing from the acoustic velocity of the intermediate unit, an image cell, one of the end units being adapted to engage the surface of the object under test opposite the surface in engagement with the transmitting means, the other of the end units being adapted to form one face of the image cell, said end units and intermediate unit having meeting surfaces formed as a plurality of refracting surfaces adapted to project the ultrasonic waves upon the image cell.

2,592,223
STRAIN RESPONSIVE GAUGE
Sidney B. Williams, West Caldwell, N. J., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 19, 1944, Serial No. 532,010
17 Claims. (Cl. 73—88.5)



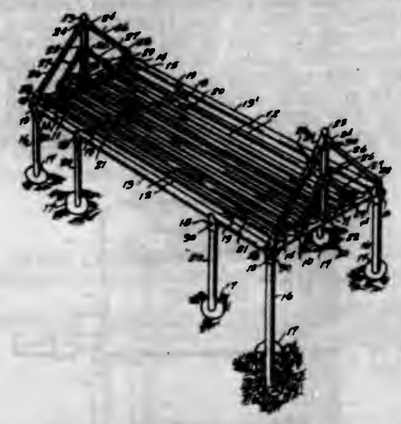
1. A stress gage comprising a strain responsive resistance wire arranged as a V and adapted to be bonded to an article whose stress is to be measured, the angle between the limbs of said V being substantially from 50° to 60°, and the bisector of said angle being identified thereon comprising the axis along which the stress is to be measured said angle being so established that the tangent squared of half of it is a value between .2 and .37.

2,592,224
METHOD OF MAKING MARGARINE AND THE RESULTING PRODUCT
Arthur Dacre Wilson, Hornchurch, Henry Bowen Oakley, Bromborough, and John Rourke, Bebington, England, assignors to Lever Brothers Company, Cambridge, Mass., a corporation of Maine
Application March 23, 1949, Serial No. 83,076
In Great Britain April 1, 1948
8 Claims. (Cl. 99—122)



1. A continuous method of making margarine which comprises cooling to a temperature between about 23° C. and 34° C. and agitating a stream of liquid fat to crystallize selectively the higher melting point glycerides in said stream, mixing the fat with the aqueous ingredients, and rapidly chilling and emulsifying the resultant mixture.

2,592,225
PORTABLE CATTLE GUARD
Orville R. Winkler, Fort Worth, Tex.
Application April 29, 1946, Serial No. 665,852
2 Claims. (Cl. 256—14)



1. In a cattle guard adapted for installation over an excavation in a fence line, in combination, a pair of spaced tubular end rails, each having a series of spaced integral tubular sockets along one side, the said rails being opposingly arranged to align the sets of sockets thereon, a plurality of parallel spaced tubes having their ends arranged in said sockets and supported by said end rails, a tubular support for each end of said end rails, a vertical standard detachably supported in each end rail and extending above said rails and said spaced tubes, and a plurality of angular braces detachably arranged on each side of each of said standards.

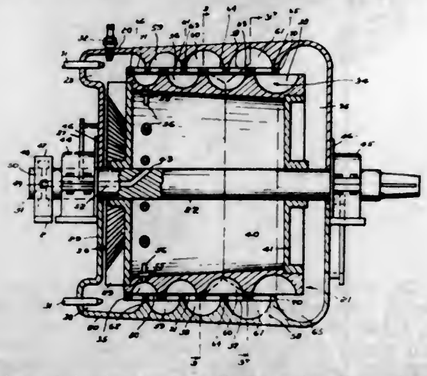
2,592,226
PROCESS FOR IMPROVING THE COLOR OF FATS AND FATTY OILS BY TREATMENT WITH CHLORINE DIOXIDE
Eric R. Woodward, New York, N. Y., assignor to Mathieson Chemical Corporation
Application December 23, 1948, Serial No. 67,045
10 Claims. (Cl. 260—423)

1. In the process for improving the color of fats and fatty oils in which the material to be bleached is treated by passing a mixture of chlorine dioxide and an inert diluent gas in contact therewith, the steps comprising flowing the material to be bleached as a stream of relatively small transverse area through an elongated, confining conduit injecting the mixture of chlorine dioxide and diluent gas into the flowing stream, and bleaching the material to the desired color by correlating the rate of flow of the material to be bleached with the injection of the chlorine dioxide mixture in a manner limiting the period of contact between the material to be bleached and the chlorine dioxide to a very short contact period in contrast to that of tank bleaching.

2,592,227
COMBINED RADIAL AND AXIAL FLOW MULTISTAGE TURBINE
Clifton Yeomans, Washington, D. C.
Application October 24, 1944, Serial No. 560,124
5 Claims. (Cl. 60—39.54)

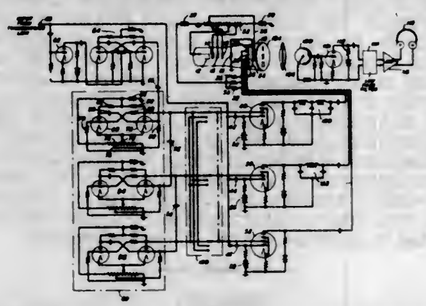
1. A multistage turbine for operation with elastic fluids passing through the turbine in a combined axial and radial flow, comprising a

rotor with a cylindrical outer surface, provided with a series of juxtaposed radially extending circumferential grooves of substantially semi-circular cross section of increasing width and depth in the direction of axial flow, blades arranged within said grooves inclined tangentially and axially, so that a line proceeding along the blade towards the axis of the cylindrical surface is inclined with respect to a radial plane passing through said axis and a line running along the blade in an axial direction is inclined with respect to the elements of the cylinder, a stator with a cylindrical inner surface provided with a



series of juxtaposed radially extending circumferential grooves of substantially semi-circular cross section, of a width and depth increasing in the direction of flow, acting as flow direction reversing chambers, the grooves in the rotor and stator being staggered and a flow dividing cylinder, arranged between the cylindrical surfaces of the rotor and the stator, provided with inlet and outlet openings, the former subdividing the circumferential continuous radial flow of the fluid emerging from the flow reversing circumferential grooves of the stator into a number of separate jets.

2,592,228
DECODER FOR PULSE CODE MODULATION RECEIVERS
Edgar W. Adams, Jr., Fair Lawn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 7, 1947, Serial No. 759,418
11 Claims. (Cl. 179—15.6)



1. A decoder for communication systems wherein the instantaneous amplitude of a signal wave is represented by code groups of a fixed number of two-valued signals each denoting in one value the presence of a different portion of the total possible amplitude of the signal wave, said decoder comprising a cathode-ray tube, means for producing a sheet of electrons therein, a deflecting system arranged to control deflections of individual portions of the electron sheet, the number of said individually deflectable portions being equal to said fixed number of signals, means for applying the signals of a code group simultaneously to said deflection system each signal controlling the deflection of a different one of said portions, means responsive to deflections of said individual portions of the electron sheet produced by signals of said one value for generating currents respectively proportional to the amplitude portions represented by the signals causing such deflections and means for adding said currents.

2,592,229
SELF-ALIGNING SHOE FOR STEADY RESTS USED ON LATHES
Adalbert Alexay, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 13, 1951, Serial No. 215,320
3 Claims. (Cl. 308—73)

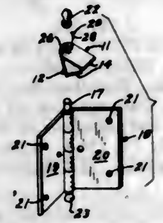


1. A self-aligning shoe for steadyrests used on lathes and the like comprising a first base member having one surface thereof formed to define a first cylindrical segmental depression, a second base member having a cylindrical segmental projection on a first surface thereof and positioned for limited rotation within said first depression and having the surface thereof opposite said first surface formed to define a second cylindrical segmental depression, the longitudinal axes of said projection and said second depression being mutually at right angles, a first cylindrical segmental member positioned for limited rotation within said second depression and having the chord surface thereof formed to a V-shape, said chord surface being further formed to define a plurality of parallel cylindrical segmental depressions and a slot separating two of said parallel depressions, a plurality of parallel cylindrical segmental members each mounted for limited rotation in a different one of said parallel depressions and having the chord surfaces thereof formed to a V-shape, a bar-like member positioned in said slot, and a flexible sheet of bearing material fastened to said bar-like member to cover said chord surfaces of said parallel cylindrical segmental members.

2,592,230
DOOR CHECK
Leonard G. Allen, San Francisco, Calif.
Application March 26, 1949, Serial No. 83,621
1 Claim. (Cl. 16—137)

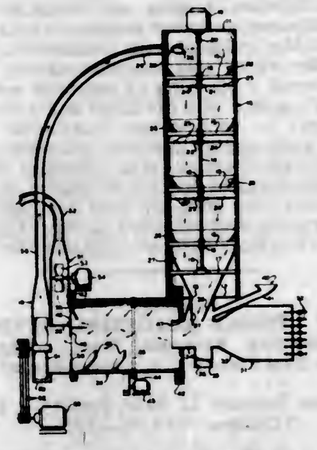
A door check comprising a hinge, including a pair of hinge plates pivotally mounted on a pintle pin and a knob removably secured to the top of the pintle pin, a pair of similar plates removably

mounted on said pintle pin between said knob and the top edges of said hinge plates, each of said pair of similar plates having an opening therethrough for passing said pintle pin as well
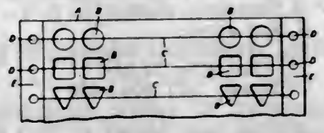


as having apertures therethrough, and an escutcheon pin piercing such apertures for retaining said pair of similar plates on said pintle pin in any selected one of a plurality of angularly related positions.

2,592,231
FEED PREPARATION DEVICE
James O. Allstott, Pauls Valley, Okla.
Applicaton January 7, 1949, Serial No. 69,789
6 Claims. (Cl. 99—235)



1. A combination drier, mixer and comminutor for animal feed and the like, comprising an elongated vertical drum, a shaft supported in said drum and substantially axially thereof, means for rotating the shaft, spaced means on said shaft for attaching a plurality of chains, chains attached to the spaced means, cutter elements on the chains, funnel members disposed within the drum one spaced just above each spaced chain attaching means, the chains and the funnel members in combination with the drum providing therein a plurality of flights, an opening near the top of the drum for receiving feed, and a funnel at the bottom for dispensing feed, whereby feed received through the opening may graviate downwardly into an engagement with the chains of each flight for comminution and mixing; a furnace located near the bottom of the drum, heating means in said furnace, a discharge pipe connecting the funnel to the furnace whereby hot gases therefrom contact the feed, an air inlet in the connecting means, and means for regulating the flow through the discharge pipe and the air inlet means; a second drum substantially horizontally disposed with an end adjacent the furnace and the discharge pipe and connected thereto for receiving the heated feed, means for rotating the drum, paddles within the drum for moving the feed as the drum rotates, a first outlet near the top of the drum at the opposite end of the furnace, a second outlet below the first outlet and of relatively larger size, means for inducing air flow through the outlets, a conduit attached to the first outlet and leading to a discharge, and a conduit attached to the second outlet and leading to within the vertical drum and near its upper extremity, said last-mentioned conduit having a relatively broad flat cross section whereby movement of the feed from within the second drum through the conduit is expedited.

2,592,232
MOLD FOR MOLDING SWEETMEATS
Clifford Gamble Marks Armand, Cheltenham, England
Application November 9, 1948, Serial No. 59,040
In Great Britain September 3, 1947
4 Claims. (Cl. 107—19)

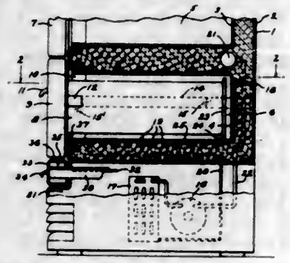


1. A resilient flat mat for making soft candies having a top face and a bottom face, comprising in combination, a mould-carrying portion bordered along an edge by a strip-shaped edge portion, said edge portion having a plurality of spaced holes extending from the top face to the bottom face thereof, said mould-carrying portion having a plurality of slits extending substantially parallel to each other and normal to said edge portion, said slits ending, respectively, in the holes in said edge portion, said slits extending from the top face to the bottom face of said mat and thus forming a plurality of substantially parallel strips reaching into said edge portion of said mat up to the holes extending through the same, said strips having pairs of complementary moulds on either side of said slits located outside of said strip-shaped edge portion of said mat, the pair of complementary moulds in each of said slits located nearest to the hole at the end of the respective slit being spaced from the hole at least by a distance equalling the distance of the two adjacent pairs of moulds from each other, the easy bendability of said strips relative to one another obtained by said holes at the ends of said slits permitting easy removal of candies formed in said moulds without damaging of the candies and permitting repeated bending of said strips relative to one another without tearing of said mat at the ends of said slits forming said strips.

2,592,233
FROST REMOVING ARRANGEMENT FOR REFRIGERATOR CABINETS
Leonard W. Atchison, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 14, 1949, Serial No. 121,392
7 Claims. (Cl. 62—103)

1. A refrigerator cabinet including an outer wall, a spaced inner wall defining a compartment, a drawer slidably received within said compartment, means adjacent said inner wall for cooling said compartment, said inner wall being

maintained at a temperature on which frost forms thereon, and a scraper secured to said



drawer for scraping frost from said inner wall when said drawer is moved.

2,592,234

PLASTICIZED CELLULOSE ACETATE-BUTYRATE AND CELLULOSE ACETATE-PROPIONATE

Alan Bell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 16, 1949, Serial No. 76,849
7 Claims. (Cl. 106—180)

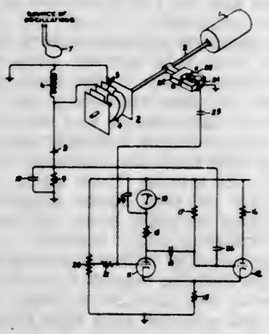
1. A composition of matter comprising 100 parts of a cellulose ester having at least 30% of fatty acid groups of 3–4 carbon atoms and 10–50 parts of an ester selected from the group consisting of the 2-ethyl butyric and the 2-ethyl hexoic acid esters of 2,2,4-trimethyl pentane diol-1,3.

2,592,235

FREQUENCY MEASURING INSTRUMENT

Alfred F. Bischoff, Ballston Spa, N. Y., assignor to General Electric Company, a corporation of New York

Application July 29, 1950, Serial No. 176,702
5 Claims. (Cl. 250—39)



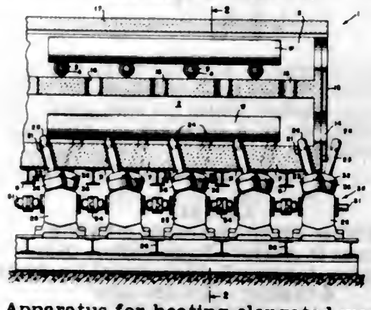
1. An instrument for measuring the frequency of a source of alternating electric energy, comprising a resonant circuit including a variable impedance, said resonant circuit being adapted to be coupled to the source of electric energy, a motor having a shaft connected to vary said impedance at a known rate, a permanent magnet mounted on said shaft, a ferromagnetic material having a coil wound thereon located such that said magnet passes in close relation thereto at a predetermined position of said shaft, means connected to said resonant circuit for providing a voltage pulse whenever said circuit is tuned to the frequnecy of a source of electric energy coupled thereto, and electric means indicating the time interval between the time that a current is induced in said coil when said magnet passes in close relation to said ferromagnetic material and the time of occurrence of said voltage pulse.

2,592,236

WORK CONVEYING MECHANISM FOR FURNACES

Quentin M. Bloom, Huntingdon Valley, Pa., assignor to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania

Application July 15, 1950, Serial No. 174,009
7 Claims. (Cl. 263—6)



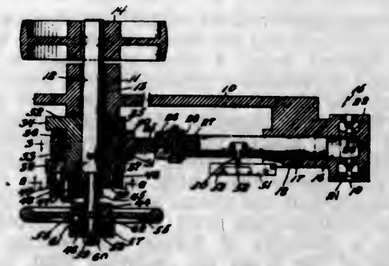
1. Apparatus for heating elongated work comprising a furnace having an elongated, horizontally disposed chamber therein, a plurality of burners in the walls of said chamber to supply heat to the work, said furnace having in the bottom thereof a plurality of openings extending into said chamber, said openings being staggered with respect to each other lengthwise of the chamber, work supporting and conveying members extending through said openings with an end of each member in said chamber, the work resting upon the ends of said members, and means to rotate said members around their axes to advance the work through said chamber.

2,592,237

PUMP STROKE ADJUSTING DEVICE

Earl H. Bradley, Seekonk, Mass., assignor to Builders Iron Foundry, a corporation of Rhode Island

Application January 11, 1950, Serial No. 138,049
2 Claims. (Cl. 74—571)



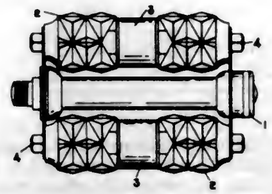
1. A stroke adjusting mechanism comprising a rotary shaft, an eccentric secured to said shaft to rotate therewith, a second eccentric rotatably mounted on said first eccentric, reciprocating stroke transmitting means embracing said second eccentric, gear means between said eccentrics for relatively adjusting said eccentrics to vary the stroke of said means including a gear coaxial with said shaft, and a gear meshing therewith and rotatable about an axis fixed to said inner eccentric to rotate said outer eccentric relative thereto.

2,592,238

PEDAL REFLECTOR

Harry Brammer, Kirkstall, Leeds, England

Application December 1, 1947, Serial No. 789,005
In Great Britain December 9, 1946
6 Claims. (Cl. 88—81)



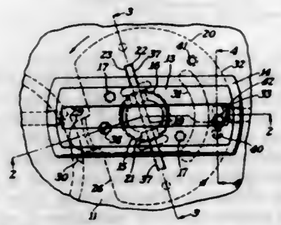
1. A reflector cycle pedal comprising a pedal spindle, two transverse frame bars mounted rotatably on the spindle adjacent the ends thereof, two tread carrying bolts extending between said frame bars one on each side of and parallel with said spindle, at least one tread block having an axial center bore mounted on each of said bolts with the latter extending through the center bore thereof and at least one tubular reflector member having a center bore mounted on each of said bolts with the latter extending through the center bore thereof, each said reflector member being located between said frame bars coaxial with the respective tread block and forming a make-up part of the tread portion of the pedal.

2,592,239

COVER LOCKING MECHANISM

Morris E. Brown, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 7, 1948, Serial No. 19,537
7 Claims. (Cl. 292—241)



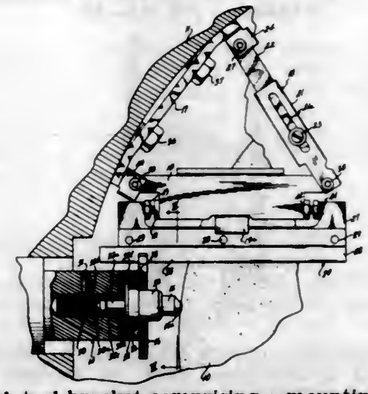
6. In a cover locking mechanism, the combination with a cover, of a shaft rockably mounted on said cover, a pin connected to the lower end of said shaft and projecting laterally from the opposite side of and extending normal to the axis of said shaft, a latching plate pivotally mounted on said pin, an operating knob connected to said shaft for rocking said plate relative to said cover, a latch formed on said plate and movable into engagement with a support upon rocking said plate to latch said cover to said support, a screw carried by said cover adjacent said latch and engaging said plate to retain said latch in position to engage said support when said cover is rocked, a flexible portion formed on said plate on the side thereof opposite said latch, and a second screw carried by said cover and engaging said portion and cooperating with said first screw to tension said plate to insure a tight engagement between said latch and said support.

2,592,240

TOOL BRACKET AND INDEXING ASSEMBLY

Stanford P. Bruce, Detroit, Mich., assignor to Wheel Trueing Tool Company, Detroit, Mich., a corporation of Michigan

Application October 26, 1948, Serial No. 56,500
5 Claims. (Cl. 125—11)



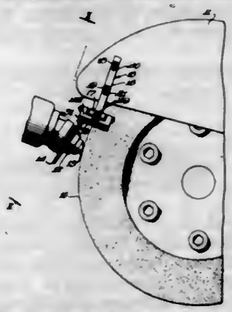
1. A tool bracket comprising a mounting plate, an arm adjustable in length secured to one end of said plate, a cross member pivotally secured at its ends to said plate and said arm respectively, said cross member having an offset flange portion projecting therefrom, and a pawl pivotally secured to said cross member for pivotal movement about an axis parallel to said cross member and having its pivotal movement in one direction limited by said offset flange portion while free to move in the opposite direction.

2,592,241

WHEEL DRESSING UNIT

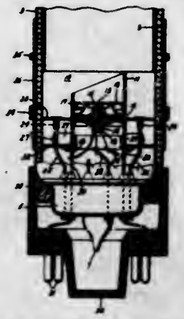
Stanford P. Bruce, Detroit, Mich., assignor to Wheel Trueing Tool Company, Detroit, Mich., a corporation of Delaware

Application April 23, 1949, Serial No. 89,289
3 Claims. (Cl. 125—11)



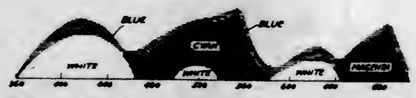
1. In combination with a grinding wheel dressing assembly having a rotatable tool holder carried by said assembly for translatory movement across the surface of a grinding wheel, said holder carrying a cutting tool therein arranged to periodically dress the surface of said grinding wheel, and a guard enclosing at least a portion of said wheel, means coacting with said holder at the completion of a traverse of said tool across the surface of said wheel to rotate said holder comprising a shank secured to said guard, a swingable member carried by said shank, and a stop member carried by said shank in the path of swinging movement of said swinging member for limiting the pivotal movement of said swingable member about said shank.

2,592,242
ELECTRON GUN AND MOUNTING THEREFOR
Von C. Campbell, Syracuse, N. Y., assignor to General Electric Company, a corporation of New York
Application July 19, 1950, Serial No. 174,769
4 Claims. (Cl. 313—83)



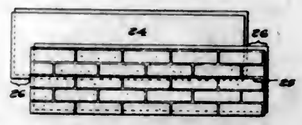
1. A cathode ray tube comprising an envelope including a cylindrical neck, an electron gun supported within said neck comprising a generally cylindrical control grid member, a cathode supported from and within said grid member, said grid member terminating in a plane making an acute angle with the axis thereof at one end and provided with an outwardly extending flange at the other end thereof, a pair of spaced insulating disks interposed between said cylindrical control grid member and the neck of said envelope, one of said insulating disks engaging said flange and a getter ring surrounding said grid member and supported in the space between said insulating disks.

2,592,243
METHOD OF SELECTIVELY EXPOSING THE GRAINS OF A MIXED GRAIN PHOTOGRAPHIC EMULSION
Burt H. Carroll and Wesley T. Hanson, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 30, 1948, Serial No. 57,592
3 Claims. (Cl. 95—2)



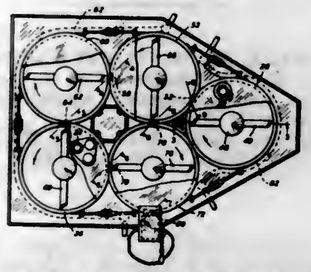
1. The method of selectively exposing the differently-sensitized silver halide grains of a mixed grain photographic layer having silver halide grains sensitized in one spectral region with a sensitizing dye that diffuses slightly between silver halide grains and produces a different sensitizing maximum on the grains to which it diffuses than on the grains originally sensitized, and having at least one other type of silver halide grains sensitized in a spectral region different from said first-mentioned spectral region and also sensitized to some extent by said dye which diffuses slightly, which comprises exposing said layer with light of the spectral region to which said first-mentioned grains were originally sensitized while excluding light of the spectral region to which said other type of grains are sensitized by diffusion of said dye, and also exposing said layer to light to which said other type of grains are sensitive, and developing differently colored images with said two types of grains.

2,592,244
BUILDING UNIT
Eli L. Chamberlain, Norwood, Mass., assignor to Bird & Son, inc., East Walpole, Mass., a corporation of Massachusetts
Application October 22, 1948, Serial No. 55,849
6 Claims. (Cl. 20—5)



1. A building unit comprising a substantially rigid, rectangular back portion and a rectangular front portion in vertically offset relation, said portions having rabbeted edges adapting the same for interlocking engagement with the corresponding portions of similar units, each subportion delineated by the rabbeting being vertically offset with relation to all of the other such sub-portions.

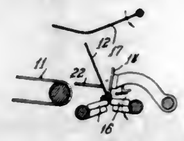
2,592,245
METHOD AND APPARATUS FOR MIXING MATERIALS
Charles B. Clotworthy, Jr., Brooklandville, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 23, 1949, Serial No. 89,358
8 Claims. (Cl. 259—64)



1. The method of continuously mixing the ingredients of a plastic compound, which comprises the steps of mixing measured amounts of plastic material and a plasticizer, to form plasticized material, introducing the plasticized material continuously into an endless path at a predetermined point therein, introducing into the path at a second point therein measured amounts of solid ingredients to be mixed with the plasticized material, advancing the plasticized material and the solid ingredients along the path, mixing the solid ingredients and the plasticized material as they are advanced along the path to form a compound, and withdrawing only a portion of the compound from the path at a third point therein.

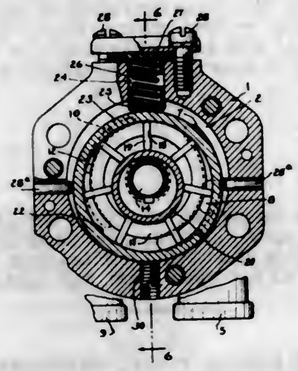
2,592,246
END-FOLDING MACHINE
William S. Cloud, Wilmette, Ill.
Application August 16, 1947, Serial No. 769,047
13 Claims. (Cl. 270—80)

1. Folding apparatus including a pair of pivotally mounted squeezers cooperating to form a bite therebetween, means for oscillating the squeezers about their pivotal axes from a receiving position in which they are open, through a squeezing position to a discharge position, said squeezers being so shaped that in the receiving position they leave a gap within the geometric cylinders which would be generated by a complete rotation of the seizing surfaces about said axes, means for delivering an article to be folded



to a position close to and across the bite of the squeezers, and means extending into said gap for starting a fold in said article and feeding the fold to the bite.

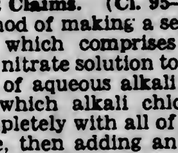
2,592,247
VARIABLE CAPACITY PUMP
Frank S. Coe, Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application May 14, 1946, Serial No. 669,645
3 Claims. (Cl. 103—120)



1. In an automatically variable delivery fluid pump or the like, a housing having a pumping chamber and fluid supply and delivery means communicating with said chamber, a rotor and a plurality of vanes in said chamber, a ring member in said chamber and surrounding said rotor and vanes, said ring member having a solid wall with a continuously curved unbroken outer surface and resiliently urged means engaging said ring member for normally urging said ring member and vanes relative to said rotor for maximum pumping action by said vanes and a plurality of pin members extending into said chamber through said housing and sealed in said housing and engaging the periphery of said ring at spaced points only for guiding said ring during any movement thereof.

2,592,248
ALPHA-ACYLAMINO ACRYLAMIDES AND POLYMERS THEREOF
Harry W. Coover, Jr., and Joseph B. Dickey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 9, 1949, Serial No. 132,215
15 Claims. (Cl. 260—85.5)

10. A copolymer of from 5 to 95% by weight of an α-acylamino acrylamide having the general formula:



wherein R represents an alkyl group containing from 1 to 3 carbon atoms and R_1 and R_2 each represent a member selected from the group consisting of hydrogen and an alkyl group containing from 1 to 18 carbon atoms, and from 95 to 5% by weight of another ethylenically unsaturated polymerizable compound.

2,592,249
PREPARATION OF URONIC ACIDS AND DERIVATIVES THEREOF
Dean H. Couch, China Lake, Calif., and Elonza A. Cleveland, Milan, Italy, assignors to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 17, 1949, Serial No. 133,690
13 Claims. (Cl. 260—333)

1. Process for the production of derivatives of uronic acids, which comprises dissolving an aldose derivative, having the aldehyde function protected by an acetal linkage and in which the primary alcohol group is free, in at least sufficient liquid nitrogen dioxide to attain a homogeneous system, and allowing oxidation to proceed for a sufficient time to oxidize a substantial proportion of the primary alcohol groups of the aldose derivative to carboxyl groups.

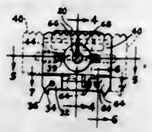
2,592,250
PHOTOGRAPHIC SILVER BROMIDE EMULSION CONTAINING SOME SILVER IODIDE
Edward Philip Davey and Edward Bowes Knott, Wealdstone, England, assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 22, 1949, Serial No. 82,914. In Great Britain May 13, 1947
2 Claims. (Cl. 95—7)

1. The method of making a sensitive silver halide emulsion which comprises the addition of aqueous silver nitrate solution to at least an equivalent amount of aqueous alkali chloride solution and gelatin, which alkali chloride reacts substantially completely with all of the silver to form silver chloride, then adding an aqueous mixture of alkali bromide and iodide in an amount which will completely convert substantially all of the silver chloride to silver bromide and silver iodide so that the resulting emulsion will contain at least approximately 6 per cent silver iodide, the remainder being essentially all silver bromide, ripening the emulsion, and washing out at least some of the soluble salts and bringing the soluble halide content of the emulsion to a potassium bromide equivalent concentration above 0.03 gram per liter, all of the operation being conducted at less than about 50° C.

2,592,251
SPANNER TOOL TO REMOVE COVERS FROM ARTICLES
Elias G. Dayle, Boston, Mass.
Application September 23, 1950, Serial No. 186,450
6 Claims. (Cl. 81—6)

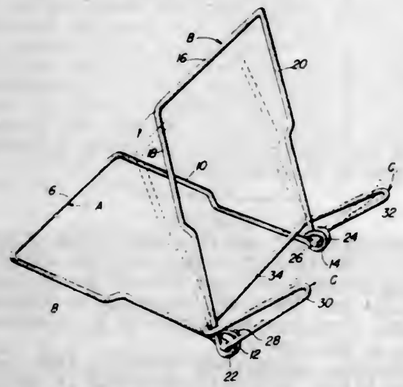
1. A spanner tool comprising a holder embodying a handle and a head extending at an angle

thereto having an elongate slot intermediate the ends thereof and a hole therein, a jaw carried by said head embodying a gripping finger extending beyond said head, a slide having an elongate slot intermediate the ends thereof and embodying a stop guide extending through and



slidably movable in said head slot until it reaches an extremity thereof, said slide carrying a jaw embodying a gripping finger extending beyond said head, and a pin member extending through said slide slot and into said head hole to adjustably hold said slide to said head whereby the distance between said fingers may be varied.

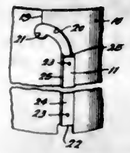
2,592,252
BOOKREST
Fredrik de Coste, New York, N. Y.
Application December 22, 1950, Serial No. 202,229
4 Claims. (Cl. 45—57)



1. A book-rest comprising a base member having a rear portion from which extends two side portions each terminating in an eye, a book-back-engaging member having a top portion from which extend two side portions each also terminating in an eye, said eyes being located adjacent one another in two pairs, and a book-supporting member having two pintles which extend respectively through a pair of said eyes and having forwardly-extending book-edge-engaging portions connected by a bridge portion extending across the tops of the side portions of said base member and behind the side portions of said book-back-engaging member.

2,592,253
GUIDE SHELL
William J. Delp, Greenville, Mich., assignor to Gibson Refrigerator Company, Greenville, Mich., a corporation of Michigan
Application September 15, 1948, Serial No. 49,390
3 Claims. (Cl. 219—37)

1. A guide shell for a deep well cooker and the like, comprising a strip in the form of a cylinder with the edge portions of the strip secured together, said cylinder having a vertical U-shaped channel having three sides joined together substantially at right-angles and a laterally-extending channel communicating with the top of the vertical channel, said cylinder being divided at



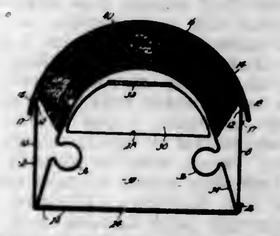
a point between said laterally-extending channel and the top of the cylinder.

2,592,254
MONOMERS AND POLYMERS OF VINYL CARBAMIC ACID DERIVATIVES AND THEIR PREPARATION
Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application January 29, 1948, Serial No. 5,206
8 Claims. (Cl. 260—77.5)

3. A method of preparing polymers which comprises heating together under polymerizing conditions 80–20 mol percent of a monomer selected from the group consisting of vinyl acetate, acrylonitrile, methyl methacrylate, vinyl chloride, acrylic acid and acrylamide, and 20–80 mol percent of an ester having the following formula:

R being a radical selected from the group consisting of alkyl, alkylene, and carbocyclic radicals, and x, y, and z being selected from the group consisting of hydrogen, alkyl, aryl, and alkoxy.

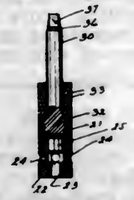
2,592,255
CLEANSING TISSUE DISPENSER
Sophia P. Drees, Kansas City, Mo.
Application October 18, 1950, Serial No. 190,707
2 Claims. (Cl. 312—61)



1. A cleansing tissue dispenser comprising a rectangular box having a bottom, end walls, and side walls extending above said end walls, said upward extensions having arcuate upper edges, an arcuate cover plate carried removably by said box and having an opening formed centrally therein, said cover plate conforming to the contour of said side walls, and an insert comprising a sheet of resilient material having its ends confined between the end walls of said box and its central portion bowed upwardly in arcuate form in inwardly spaced relation from said cover plate, said insert having transversely offset resilient loops formed therein adjacent each end thereof whereby the central portion thereof is urged upwardly toward said cover plate and whereby a

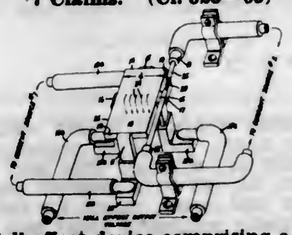
stack of tissues carried on said insert is urged against said cover plate in overlapping relation to said cover plate opening, the radius of curvature of said central insert portion being at all times greater than it would be if concentric with said cover plate.

2,592,256
VALVE STEM CONSTRUCTION
William S. Du Charme, Cleveland, Ohio, assignor to Superior Valve Manufacturing Company, Cleveland, Ohio, a partnership
Application August 27, 1945, Serial No. 612,973
5 Claims. (Cl. 251—156)



4. A stem assembly for a faucet comprising an open-ended cylindrical sleeve internally threaded in its upper portion and smoothly cylindrical in the interior of its lower portion and having a lateral opening through the lower portion of its wall, a valve seat member carried by the sleeve at the lower end thereof and insertable and removable with the sleeve, a cylindrical valve member within the sleeve movable independently of the sleeve and adapted to extend across the opening of the valve seat member and having its periphery engaging the sleeve to be guided thereby, a rotative stem threaded in the sleeve and independent of the valve member but adapted to form an abutment therefor, whereby the valve seat member may form a yielding contact with both the valve seat of the faucet and with the valve member and the latter may form a closure for the sleeve opening.

2,592,257
HALL EFFECT DEVICE
William C. Dunlap, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application November 15, 1950, Serial No. 195,889
7 Claims. (Cl. 323—63)



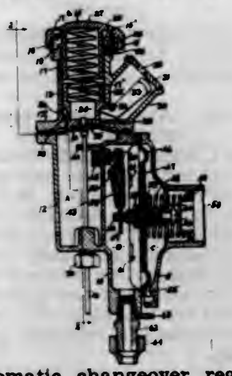
1. A Hall effect device comprising a Hall plate, input electrodes connected to said plate for delivering a current through said plate along one axis thereof, output connections to said plate for receiving a potential difference generated along an axis of said plate transverse to said current carrying axis, and an elongated conductor having a diameter less than the thickness of said Hall plate located adjacent an edge of said plate parallel to the current carrying axis thereof for producing a magnetic field substantially perpendicular to the plane of said plate when a current is passed through said conductor.

2,592,258
ARTICLE OF MANUFACTURE IN THE FORM OF A PICTURE AND METHOD OF MAKING SAME
George P. Economakis, Asbury Park, N. J.
Application April 19, 1950, Serial No. 156,882
1 Claim. (Cl. 41—22)



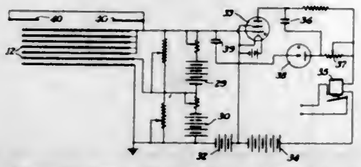
An article of manufacture comprising a base sheet of transparent glass, a colored picture formed on the base sheet of transparent glass, said picture being formed by assembled individual shaved pieces of previously-colored glass, a front sheet of transparent glass fitted over the picture formed by the assembled individual previously-colored shaved pieces of glass, the base sheet of transparent glass and the shaved pieces of previously-colored glass and the front sheet of transparent glass being fused together to a degree to avoid destruction of the shape and color of the shaved pieces of colored glass, whereby when the shaved pieces of glass and the two sheets of glass are united, a picture formed by the shaved pieces of glass is visible through both the front and base sheets of transparent glass.

2,592,259
AUTOMATIC SELECTOR, CHANGE-OVER REGULATOR AND INDICATOR DEVICE
William R. Eddy and Theodore A. St. Clair, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application March 16, 1946, Serial No. 654,992
16 Claims. (Cl. 50—10)



1. An automatic changeover regulator comprising a body forming a chamber having a flexible diaphragm forming at least a portion of one wall, a pair of spring biased valved inlets for said chamber, the valves of said inlets being biased to closed position, an outlet for said chamber, means engaged by said diaphragm for opening said valves, a rotatable cam engaging said diaphragm, and a tubular operating member engaged with said cam adjacent its periphery for effecting rotation of said cam about its periphery to positively operate said means to selectively open one of said valves, said cam being biased towards said diaphragm to oppose the bias of said valves, whereby said other valve opens when the pressure in said chamber falls below a predetermined value.

2,592,260
CAN SORTING MACHINE
Howard J. Emerson, Robert J. O'Connor, and George A. Emery, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 19, 1949, Serial No. 71,602
12 Claims. (Cl. 209—81)



1. A sorting machine for cans having a pair of exposed metal areas or code marks on the surface thereof comprising a plurality of contacts, means for moving said cans across the plurality of contacts, a gate movable into the path of the cans beyond said plurality of contacts to divert the cans from said path, electrically actuated means for moving the gate into the path, an electrical circuit connecting the electrically actuated means to the plurality of contacts, two sources of voltage in said circuit, the voltages being in opposition and balanced to ordinarily have no effect upon the electrically actuated means, two of said contacts being connected across one of the voltage sources, the remainder of the contacts and one of said two contacts being connected across the other voltage source, whereby, when said two contacts simultaneously make contact with the code areas of a can, the one source of voltage is shorted through the can, thereby unbalancing the opposed voltages to operate the electrically actuated means whereby the gate is moved to divert the can from said path.

2,592,261
HALOPHOSPHATE PHOSPHORS
Gorton R. Fonda, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application August 11, 1950, Serial No. 178,995
4 Claims. Cl. 252—301.6)

4. A luminescent material having the formula $3Ca_3(PO_4)_2.vCdX_2$ wherein v is a number no greater than 1 and X is a member selected from the group consisting of fluorine and chlorine, said material containing activating proportions of antimony and manganese corresponding to 1–3% of antimony by weight of the halophosphate and 2% manganese by weight of the halophosphate added to the materials initially present in the batch mixture.

2,592,262
SLIDE MOUNT
Arthur B. Fox, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 10, 1948, Serial No. 14,069
14 Claims. (Cl. 40—154)

7. A slide mount comprising, in combination, a transparent glass support, a sprayed aluminum coating on a surface of said support arranged to provide a central recessed seat adapted to receive a film transparency arranged in said seat with the emulsion side positioned toward said support, a clear uncoated central portion in said seat for framing the image-bearing area of said transparency, a thin sprayed-aluminum layer on said surface and covering the balance of said seat outside said portion, and a gelatin layer positioned on said portion and said thin layer

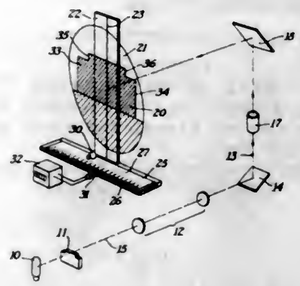


for securing said emulsion adhesively thereto to retain said transparency in position in said seat, said coating projecting above said transparency at said seat and increasing in thickness toward the marginal edges of said support.

2,592,263
METHOD OF REACTING GELATIN WITH NAPHTHYL ISOCYANATES AND RESULTING PRODUCTS
Gordon F. Frame, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application August 13, 1947, Serial No. 768,473
7 Claims. (Cl. 260—117)

1. A gelatin derivative resulting from the reaction of gelatin with a naphthyl isocyanate at a temperature of 30–70° C. and a pH of 8–12.

2,592,264
CONTOUR PROJECTOR
Allen R. Fultz, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 8, 1950, Serial No. 154,781
3 Claims. (Cl. 88—24)



1. A contour projector system comprising a translucent screen, means for projecting an enlarged image of an object onto said screen, a fiducial line carried by a member immediately adjacent to said screen, means for holding said member slidably adjustable along said screen in a direction at right angles to the line, a two-element measuring device, one element being a light transmitting scale with markings and background of different optical densities and the other element including a photoelectric cell receiving light only through the scale and producing electric pulses corresponding to the markings as one element moves past the other, means for holding one of said elements fixed relative to the screen, means for moving the other element strictly in accordance with the movement of said member along said screen and an electric pulse counter connected to and operated by said cell.

2,592,265
BRASSIÈRE
Evelyn M. Fyffe, Detroit, Mich.
Application April 18, 1949, Serial No. 88,159
1 Claim. (Cl. 2—42)

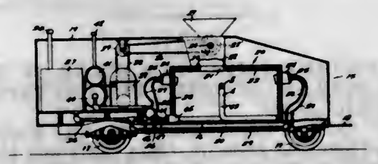


A brassière comprising two cups made of flexible waterproof material having their adjacent margins joined to one another, each cup consisting of an upper portion and a lower portion secured to each other by a seam extending substantially horizontally across the cup, upwardly and inwardly curved resilient reinforcing members extending the full height of each cup to maintain the true shape of the breasts of the wearer, means holding each reinforcing member in position, a relatively narrow fabric strip in each cup extending across the horizontal seam and held at its ends by the holding means for said reinforcing members to protect the wearer's nipples, a band secured to the outer side edge of each cup, and fastening means on each band for engagement with corresponding fastening means on a garment worn over the brassière.

2,592,266
PREPARATION OF GLUCURONIC ACID AND DERIVATIVES THEREOF
Dudley M. Gallagher, Berwyn, Ill., assignor to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 8, 1949, Serial No. 131,930
16 Claims. (Cl. 260—333)

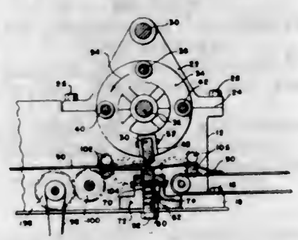
1. A method of preparing glucuronic acid which comprises contacting a glucose compound containing a primary alcohol group and wherein the aldehyde group is protected, with a permanganate salt in aqueous solution and at an alkaline pH, for a time sufficient to oxidize the primary alcohol group of said glucose compound to the carboxyl group, and subsequently hydrolyzing the resultant glucuronic acid derivative to obtain glucuronic acid.

2,592,267
SNOW MELTING MACHINE
Carmine Gangemi and Rocco Gangemi, Dover, N. J.
Application October 28, 1948, Serial No. 57,084
2 Claims. (Cl. 126—343.5)



1. In a snow melting machine, a wheeled frame, a housing supported on said frame, a hopper arranged on the top of said housing for the ingress therethrough of snow and ice, an ice breaker positioned below said hopper for breaking up said ice, means in said housing for melting and converting said snow and ice to water, said last-named means comprising an oven arranged in said housing for receiving the ice and snow from said breaker, a pair of sockets arranged in each end of said oven, a torch positioned in each of said sockets and supported by the latter for heating the oven, said oven being lined with fire clay, a layer of insulation arranged in surrounding relation with respect to said oven, an open-ended pipe arranged in said oven, and an auxiliary torch connected to one end of said pipe for supplying additional heat to said oven, said open-ended pipe including a horizontal section extending substantially across said oven, a transverse section projecting from said horizontal section, a straight portion extending from said transverse portion, a vertical portion extending upwardly from said straight portion, and a horizontal portion arranged on the upper end of said vertical portion and spaced below said hopper.

2,592,268
CUTTING DEVICE FOR MOVING STRIP
Jack Gerbe, New York, N. Y., assignor to Comet Envelope & Paper Co., Inc., New York, N. Y., a corporation of New York
Application July 2, 1949, Serial No. 102,879
9 Claims. (Cl. 164—68)

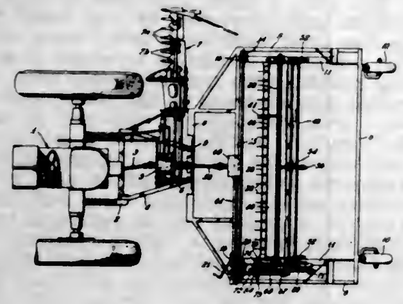


4. A cutting machine comprising a frame, a lower cutting knife disposed in said frame with its cutting edge uppermost, said knife being pivoted in said frame at one end portion, and having a slot formed near its opposite end portion, a bolt engaging said frame and extending through said slot, resilient means providing upward bias on said slotted end of said lower cutting knife. an upper cutting knife, rotating means in said frame for carrying said upper cutting knife through a series of complete revolutions in which once each revolution the cutting edge of said upper cutting knife is in engagement with the cutting edge of the said lower cutting knife, said upper cutting knife being so arranged as to be, upon reaching said cutting position, at a slight angle with said lower cutting edge, whereby a scissors-like cutting action on sheet material to be cut is obtained, the said cutting edges of said knives being formed by intersecting margins of the knives making an obtuse angle with each other.

2,592,269
AGRICULTURAL CUTTING AND PROCESSING MACHINE ASSEMBLY
Benjamin E. Getz, Morton, Ill., assignor to A. F. Meyer Mfg. Co., Morton, Ill., a corporation of Illinois
Application July 26, 1949, Serial No. 106,864
5 Claims. (Cl. 56—1)

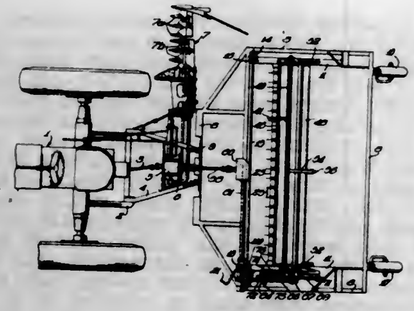
1. In an agricultural processing machine to act on mowed hay and similar crop in combination

with a tractor-mower wherein the mower blade projects laterally to cut a swath next adjacent that passed over by the tractor, a mobile frame, crop pick-up means carried by said frame, crushing means carried by said frame, and a forwardly



directed centrally disposed draw-bar structure on said frame connected with the tractor directly behind the tractor, whereby the combination will cut a swath and at the same time will pick up and treat the next previously mowed swath.

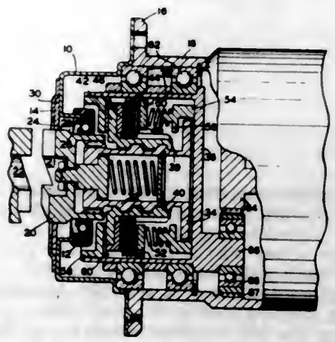
2,592,270
METHOD OF PROCESSING HAY AND THE LIKE
Benjamin E. Getz, Morton, Ill., assignor to A. F. Meyer Mfg. Co., Morton, Ill., a corporation of Illinois
Original application July 26, 1949, Serial No. 106,864. Divided and this application November 8, 1951, Serial No. 255,487
2 Claims. (Cl. 56—1)



1. The method of processing hay and similar crops naturally dried in the field, including the steps of crushing and lightly redistributing a mowed swath while mowing the next adjacent swath.

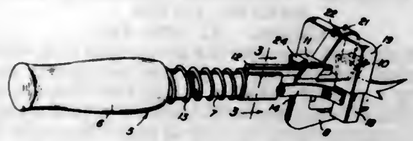
2,592,271
ENGINE STARTER
Samuel Gilbert, Cedar Grove, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application February 25, 1949, Serial No. 78,379
5 Claims. (Cl. 123—179)

1. In an engine starter, a drive including a rotatable driving barrel, an axially stationary rotatable nut arranged concentric within the barrel, a friction clutch forming the torque transmitting connection between the barrel and the nut, a driving member mounted within and actuated by the nut for longitudinal movement into engagement with a member of the engine to be started and for rotary movement to crank the en-



gine, said driving member having a radially extending projection thereon, and means independent of relative motion of said barrel and said nut interposed in the path of longitudinal movement of the driving member to engage said projection and apply a gradually increasing pressure to such clutch.

2,592,272
MAGNETIC CAN OPENER
Harry Glovinsky, Utica, N. Y.
Application March 20, 1950, Serial No. 150,786
6 Claims. (Cl. 30—22)

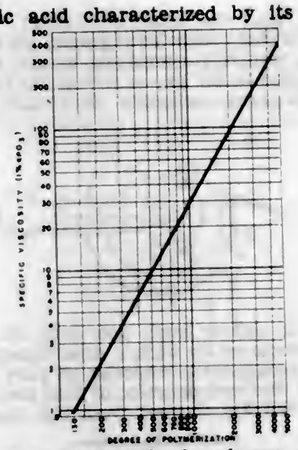


1. A magnetic attachment for can openers comprising the combination of a tool shank having a cutter at its front end, a permanent horseshoe type magnet rockably supported in a straddling position on the shank with its ends positioned at opposite sides of the cutter and movable rearwardly by contact of the magnet with a can during actuation of the cutter, and spring means holding the magnet in a forward position.

2,592,273
QUATERNARY AMMONIUM SALTS OF HIGH MOLECULAR WEIGHT POLYMETAPHOSPHORIC ACID
Max T. Goebel, Landenburg, Pa., and Ralph K. Iler, Cleveland Heights, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 13, 1948, Serial No. 59,913
11 Claims. (Cl. 260—2)

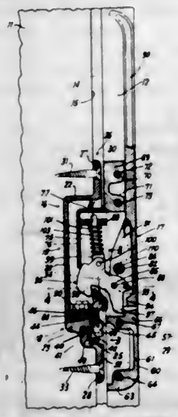
1. A quaternary ammonium salt of polymeta-

phosphoric acid characterized by its molecule



containing at least 130 phosphorus atoms per molecule.

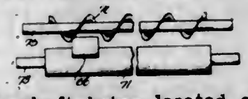
2,592,274
ADJUSTABLE KEEPER
Alfred H. Groeger, New Hyde Park, N. Y., assignor to Kason Hardware Corporation, Brooklyn, N. Y.
Application November 8, 1949, Serial No. 126,103
8 Claims. (Cl. 292—341.18)



1. A strike comprising a strike housing formed with a chamber having an open end into which a latch may project, a strike member in said chamber, means for attaching the strike member to the housing in a plurality of vertically adjusted positions relative to said chamber, a second strike member and means for attaching the second strike member to the first strike member in a plurality of horizontally adjusted positions in a direction perpendicular to the open end of the chamber, said second strike member being formed with means for engaging a latch.

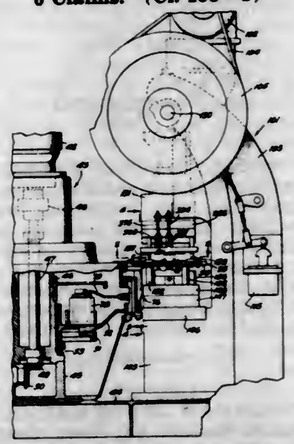
2,592,275
CONVEYER APPARATUS
Oliver Grosvenor, Morrison, Ill., assignor to Libby, McNeill & Libby, Chicago, Ill., a corporation of Illinois
Application May 14, 1948, Serial No. 26,979
4 Claims. (Cl. 198—25)

1. A conveyor comprising a rotatable roll, a second member extending adjacent the roll for supporting a unit to be conveyed jointly with the roll, and helical means for moving the unit longitudinally of the roll, said helical means comprising a shaft and a helical flange carried



thereby, the shaft being located adjacent the roll and rotatable independently of the rotation of the rotatable roll to cause the helical flange to move a unit longitudinally of the roll independently of the rotation of the unit.

2,592,276
ARTICLE ASSEMBLING APPARATUS
Carl J. Hackbarth, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 11, 1945, Serial No. 572,419
6 Claims. (Cl. 153—1)

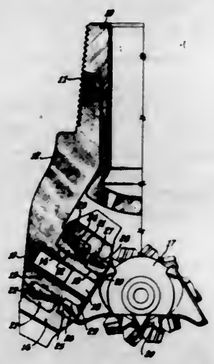


1. An apparatus for attaching metallic elements to electric cords, which comprises a stationary die, a die movable toward and away from the stationary die, a guide plate, means for urging the guide plate away from the movable die, a removable loading frame for holding a conductor in a predetermined position thereon, means for supporting the loading frame between the guide plate and the stationary die, means for urging the loading frame away from the stationary die, means for feeding a metallic element along the guide plate to a position in transverse alignment with a portion of a conductor held by the loading frame, and means for moving the movable die into engagement with the stationary die, said movable die serving as it is so moved to move the guide plate into engagement with the loading frame so that the metallic element is moved into engagement with said portion of the conductor and to move the loading frame to the stationary die so that said portion of the conductor and the metallic element are moved into engagement with the stationary die, whereby the metallic element is fastened to the conductor.

2,592,277
BEARING FOR GAUGE CUTTERS OF ROTARY ROCK BITS
Otto Hammer, Whittier, Calif., assignor to Security Engineering Co., Inc., Whittier, Calif., a corporation of California
Application May 15, 1948, Serial No. 27,245
3 Claims. (Cl. 255—71)

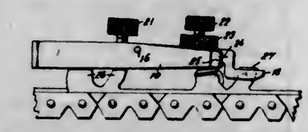
1. A rotary rock bit having hollow journals for

the gauge cutters thereof, a bridge between the journals having pins extending outwardly therein and welded therein, bushings telescoped onto the inner ends of the journals and welded thereon in positions in abutting relationship to the bridge, said bushings presenting outwardly tapering external surfaces circumferentially grooved and the grooves being filled with welded-on hard metal, the journals outwardly of the bushings



presenting inwardly tapering external surfaces circumferentially grooved and the last-mentioned grooves being filled with welded-on hard metal, cutters rotatable about the journals presenting internal surfaces complementary to said tapered surfaces and which are circumferentially grooved the grooves in the cutters being filled with welded-on hard metal arranged in opposition to the hard metal on the bushings and on the journals.

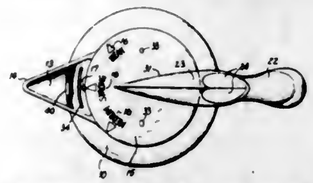
2,592,278
CHAIN SAW DEPTH GAUGE
John M. Hanson, Sr., Alsea, Oreg.
Application August 9, 1950, Serial No. 178,365
3 Claims. (Cl. 33—202)



1. A device of the character described comprising an elongated body, a file plate pivotally connected to said body, means for adjusting the plate and said body, a bifurcated end portion for said file plate adapted to receive a saw tooth of a chain saw therebetween, said means including a groove in said body for the reception therein of a portion of said plate, a pivot pin interconnecting said plate and said body, and a thumb screw extending through said plate upon either side of said pin and each adapted to impinge upon the bottom of said groove.

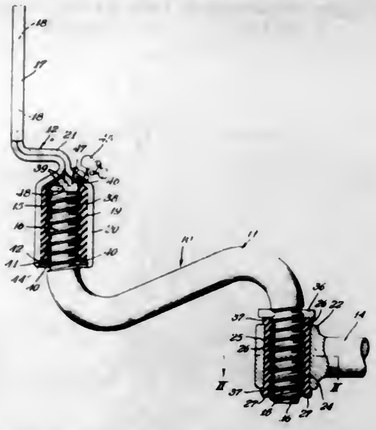
2,592,279
VARIABLE-STRENGTH BEVERAGE DISPENSER
Henry C. Heier, Kimmswick, Mo.
Application January 16, 1950, Serial No. 138,914
11 Claims. (Cl. 222—145)

1. In a dispenser for serving a beverage of at least two components, an outer container for one of said components provided with an external beverage-pouring passage, an inner container for another of said components, the inner container being movable about an axis within the outer container, and the inner and outer containers being provided with contiguous ported walls formed to constitute coacting rotary valve elements located in the line of flow of the component out of the inner container, said valve elements



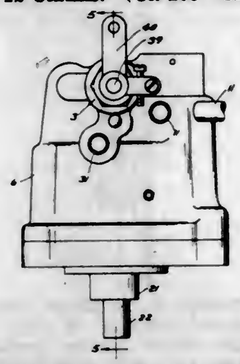
arranged to deliver such flow into the pouring passage concurrently with a flow thereto, of the first said component, whereby to vary the proportion of the components of the beverage incident to delivery thereof from the dispenser.

2,592,280
CONNECTOR
Edward J. Herbenar, Detroit, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application April 14, 1951, Serial No. 221,074
9 Claims. (Cl. 74—579)



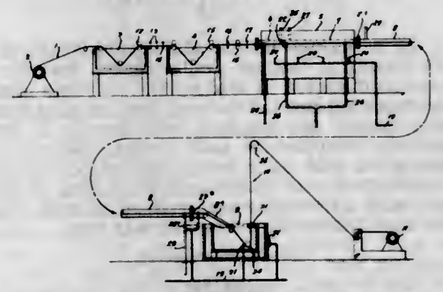
1. In an automotive steering linkage including a steering center link having an apertured boss at one end, an idler arm for pivotally connecting said center link to an automobile frame, comprising a rod having a central portion and parallel externally threaded case hardened end portions at an angle to the central portion, a pair of half-round hardened bearing shells disposed in generally conforming bearing relation about each of said rod threaded end portions, said shells having integral radially outwardly extending longitudinal edge flanges in opposed spaced relation defining longitudinal channels therebetween, a rubber-like bushing disposed in resilient retaining relation about each pair of bearing shells, a tubular frame bracket having a flattened attachment portion at one end and an open bottom housing portion at the other end, said housing portion and said center link apertured boss receiving the respective bushings in substantially conforming compressed relation, and means for introducing lubricant into said channels, whereby said bushings absorb shock between the center link and the automobile frame and provide automatic wear take-up means between the mating bearing surfaces.

2,592,281
FUEL INJECTION PUMP
Carl F. High, Detroit, Mich., assignor, by mesne assignments, to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application December 27, 1944, Serial No. 569,963
12 Claims. (Cl. 103—41)



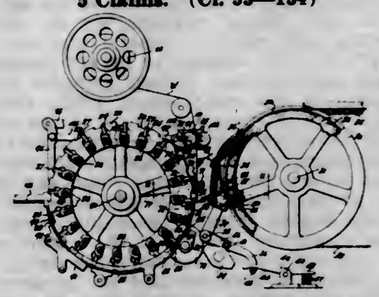
1. A liquid fuel injection pump comprising, in combination, a housing having a pump chamber with a fuel inlet and a discharge outlet, a pumping element operative in said chamber and adapted to induce the supply of fuel into said chamber through said inlet and to discharge fuel under pressure from said chamber through said outlet, conduit means for supplying fuel to said inlet under pressure, a pressure relief valve communicating with said conduit, a temperature responsive control operatively associated with the pressure relief valve to vary the release pressure of the valve proportionally to the fuel temperature, said pressure relief valve serving to regulate the fuel pressure in the conduit in such a manner that said pressure will vary proportionately to the fuel temperature.

2,592,282
CONTINUOUS PROCESS OF PREPARING AND METAL COATING ROLLED STEEL
Ralph Hodil, Toledo, Ohio, assignor to Granite City Steel Company, Inc., Granite City, Ill., a corporation of Delaware
Application June 10, 1948, Serial No. 32,157
6 Claims. (Cl. 117—51)



1. The continuous process of preparing and coating rolled strip or sheet steel with another metal which comprises passing the steel through a relatively dilute nitric acid bath which only opens the grain boundaries of the steel without destroying or removing the same and which exposes undesirable material precipitated therein during the solidification, heating and rolling thereof, thence through a plurality of heated zones, the first of said zones being a preheating zone to bring the temperature of said steel to up to approximately 1000° F. and consisting essentially of a nitrogenous non-oxidizing atmosphere containing a relatively small quantity of hydrogen and a relatively smaller quantity of water vapor, the amounts and proportions of hydrogen and water vapor being sufficient to aid in the removal of the undesirable material exposed by the nitric acid bath and any remaining rolling oils and other contaminations from previous steps of prior processing, another of said zones being an annealing zone and consisting essentially of a nitrogenous non-oxidizing atmosphere containing a relatively small quantity of hydrogen and a relatively smaller quantity of water vapor, the amounts and proportions of hydrogen and water vapor being sufficient to complete the removal of the contaminations, thus completing preparation of the surface without creating a new surface and protecting said surface from oxidation at the temperatures of said heated atmospheres, thence through a cooling zone consisting essentially of a nitrogenous non-oxidizing atmosphere containing a relatively small quantity of hydrogen and a relatively smaller quantity of water vapor, the amounts and proportions of hydrogen and water vapor being sufficient to completely protect and prevent oxidation of said prepared surface and thence immediately through a molten bath of such other coating metal to directly apply the same to said completely prepared surface.

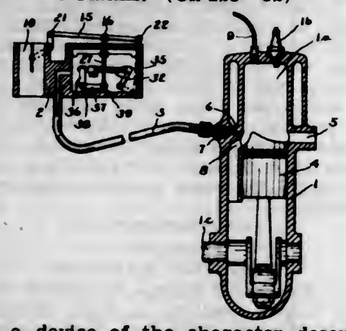
2,592,283
WRAPPING MACHINE
George I. Hohl, East Orange, Frederick H. Weise, Cedar Grove, Gottlieb A. Rist, Newark, and John M. Rist, East Orange, N. J., assignors to Processing Equipment Corporation, Freehold, N. J., a corporation of New York
Application April 8, 1947, Serial No. 740,134
5 Claims. (Cl. 53—134)



1. In a wrapping machine having a continuously rotated wrapping wheel provided with circumferentially spaced pockets opening radially and laterally from the peripheral portions thereof for the reception of articles to be wrapped and wrappers therefor, together with means for producing longitudinal folds of the wrapper over an article lodged in a wrapping wheel pocket; the combination with said wrapping wheel of wrapper folding means bordering opposite side marginal portions thereof operative to fold the remaining laterally projecting wrapper portions about the articles, said latter means comprising revolvable arms adapted to be rotated in planes parallel to and respectively adjacent opposite sides of the wrapping wheel, each arm having a leading tucker finger and a following folder finger outwardly and rearwardly offset from said tucker finger, said tucker fingers being adapted to

first tuck in trailing sides of the laterally projecting wrapper portions and said folder fingers being thereafter adapted to fold down said wrapper portions across the ends of the article, and stationary means disposed beyond said arms adjacent the sides and periphery of the wrapping wheel operative to fold the leading sides of said laterally projecting wrapper portions over the tucked and down-folded trailing sides of the latter, said last mentioned means including additional means adapted to turn the free end portions of the thus formed wrapper folds inwardly across the outer face of the wrapped article.

2,592,234
MEANS FOR CONTROLLING COMBUSTION OF INTERNAL-COMBUSTION ENGINES
William R. Hopkins, North Wilbraham, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application November 9, 1946, Serial No. 709,057
6 Claims. (Cl. 123—32)



1. In a device of the character described, a mixture control for controlling the ratio of air and fuel supplied to an engine cylinder, a fuel injection pump for supplying fuel to said engine cylinder, means for controlling the air supplied to said engine cylinder, an air passage connecting said mixture control and said engine cylinder and adapted to permit passage of air from said cylinder to said mixture control at a point in the compression stroke whereby an indication of the air pressure in the engine cylinder at a point in the compression stroke may be transmitted to said mixture control, said mixture control having means connected thereto for varying the ratio of air and fuel supplied said engine cylinder according to said indication of the air pressure in the engine cylinder at said point in the compression stroke, said means being actuated by said air pressure received in said mixture control from the engine cylinder.

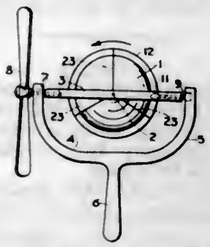
2,592,285
FILM TRANSPORT MEANS FOR MOTION-PICTURE PROJECTORS
Miller R. Hutchison, Jr., Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 28, 1946, Serial No. 718,991
9 Claims. (Cl. 242—55)

1. A film transport means comprising a pair of rotatable shafts, one end of one of which is threaded, a gear fixedly mounted on each shaft, means for simultaneously driving said gears in opposite directions, a supply reel spindle and a take-up reel spindle, a clutch including a sprocket rotatably mounted on the shaft having the threaded end, said sprocket having a frictional facing for engaging the gear mounted upon that shaft, an internally-threaded element threaded upon the threaded end of said shaft, the rotation of which element in the same direction in which said threaded shaft is adapted to be driven by the gear mounted thereon causes it to travel axially along the shaft toward said gear and to bear against the sprocket to move it axially along the



shaft into frictional engagement with said gear, a second sprocket secured on said supply reel spindle, positive drive means connecting said clutch sprocket and said supply reel spindle sprocket, a pulley secured on the shaft mounting the other of said gears, a second pulley secured to the takeup reel spindle, and a belt in frictional engagement with and connecting said pulleys.

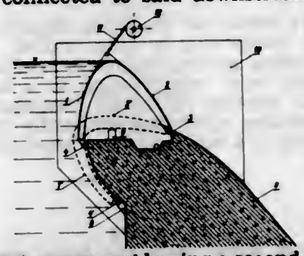
2,592,286
SPINNING TOY OR DISPLAY APPARATUS
Pieter Hendrik Jacobs, Cape Town, Cape Province, Union of South Africa
Application February 28, 1948, Serial No. 11,960
In the Union of South Africa February 9, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 9, 1964
3 Claims. (Cl. 46—49)



1. In a display device, the combination of a base having a journal and a socket therein; a trunnion mounted in said socket; a frame rotatably mounted in said journal and on said trunnion; means for rotating said frame; a body rotatably mounted in said frame, the axis of rotation of said body being normal to the axis of rotation of said frame; a friction ring on said body; and a friction member fixed on said trunnion and frictionally engaging said ring.

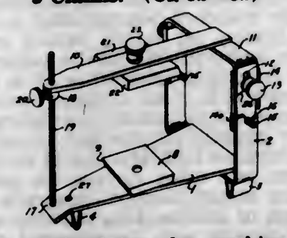
2,592,287
HYDRAULIC GATE OR BARRAGE
František Jermář, Prague, Czechoslovakia
Application September 29, 1949, Serial No. 118,676
In Czechoslovakia June 3, 1949
10 Claims. (Cl. 61—24)

1. Hydraulic apparatus, comprising in combination, support means to be located in a body of flowing liquid, said support means having a top surface provided with a substantially horizontal upstream edge extending transversely to the direction of liquid flow and a substantially horizontal downstream edge also extending transversely to the direction of liquid flow, said support means having a first side surface extending downwardly from said upstream edge thereof and a second side surface opposite to said first side surface and extending downwardly from said downstream edge thereof; a channel-shaped gate means located over said top surface of said support means with the interior of said channel-shaped gate means facing said top surface, said gate means having a first elongated edge portion pivotally connected to said downstream edge of



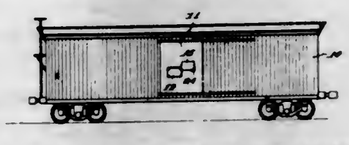
said support means and having a second elongated edge portion located adjacent to said upstream edge of said support means and on the upstream side thereof; and moving means located on said apparatus for turning said gate means about its pivotal connection to said downstream edge of said supporting means between one position where said second elongated edge portion of said gate means is at substantially the same level as said upstream edge of said support means and another position where said second elongated edge portion of said gate means is located below said upstream edge of said support means and on the upstream side of said first side surface of said support means.

2,592,288
DENTAL ARTICULATOR
Otis M. Johnson, Dallas, Tex.
Application May 27, 1950, Serial No. 164,680
3 Claims. (Cl. 32—32)



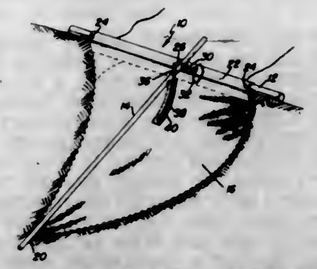
1. In an articulator for making dentures, means for simulating anatomical condylar action, comprising: a lower horizontal luting bow, a pair of arms projecting upwardly from the rearward end of said lower luting bow, an upper luting bow adapted to be positioned above and substantially parallel with said lower luting bow, a pair of arms projecting downwardly from the rearward end of said upper luting bow, an angular notch in the upper end of each of said upwardly directed arms, the angles of which are upwardly and rearwardly directed with respect to the surface of said lower luting bow, pins laterally projecting from said downwardly directed arms and received within said notches, an inclined surface projecting downwardly and outwardly from the forward end of said lower luting bow, and a downwardly directed spacer secured to the forward end of said upper luting bow and arranged to contact said inclined surface.

2,592,289
DEVICE FOR INDICATING CONTENTS OF FREIGHT CARS
William H. Joyner, Atlanta, Ga.
Application June 2, 1949, Serial No. 96,672
2 Claims. (Cl. 40—67)



1. In a device for indicating the contents of railway cars, a casing, bolts passing through said casing to secure said casing to said car, a plurality of placards, each of said placards having an apertured ear which is mounted on one of said bolts for pivoted movement into and out of said casing, a cover provided with a flange and hingedly connected to said casing, and a bracket spaced from said casing and secured to said car, said flange engaging an edge of the exposed placard near the ear of the placard and said bracket engaging the corner of one of said placards opposite to the apertured ear to support said placard in exhibiting position.

2,592,290
PORTABLE DAM
Benjamin R. Kearsley, Ogden, Utah, and Arthur W. Kearsley, Victor, Idaho
Application January 19, 1950, Serial No. 139,427
1 Claim. (Cl. 61—29)

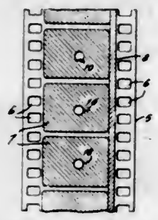


In a portable dam, the combination of a frame including a cross bar, a yoke secured intermediate the ends of said cross bar, a center post disposed at right angles to the cross bar and connected to said yoke, a substantially triangular sheet of flexible material having one apex portion thereof anchored to said center post and having a marginal edge portion opposite to said apex portion secured to said cross bar, and a transverse pin removably positioned in said yoke, said center post being provided with a row of apertures and said pin being receivable selectively in said apertures for adjustably connecting the center post to said cross bar.

2,592,291
TEST FILM FOR MOTION-PICTURE PROJECTORS
Edward W. Kellogg, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 6, 1949, Serial No. 103,245
7 Claims. (Cl. 88—19.5)

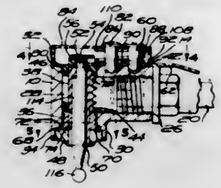
1. A motion picture projector test film, comprising an initial transparent film base of a size normally projected by said projector, said film having a repetition of the same test pattern

thereon which transmits substantially all visible light rays, the portion of said film surrounding



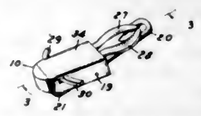
said pattern being dyed with a dye having low heat absorption and which transmits a portion of said visible light rays.

2,592,292
DENTAL INSTRUMENT HOLDER
Clifford G. King, Providence, R. I.
Application June 30, 1949, Serial No. 102,365
7 Claims. (Cl. 32—27)



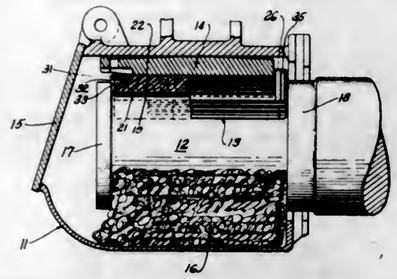
1. A dental instrument holder comprising a casing having an instrument receiving hole extending upwardly therethrough, a driven bevel gear mounted for rotation and against axial movement within the hole, a drive shaft extending inwardly within said casing having a drive bevel gear on the end thereof in mesh with said driven bevel gear, an axially movable tool containing drive sleeve mounted for rotation within said driven bevel gear having an inner periphery shaped to hold and drive an inserted dental instrument having a contracted neck portion adjacent its upper end, a cap for the upper end of said casing, a flat retaining and cushioning spring member longitudinally slideable over said casing having a sliding handle at the inner end thereof and a tip within said cap portion, bent backwards on itself to abut the top of an instrument inserted within said sleeve having an instrument top receiving opening and an instrument neck receiving extension connected thereto below the overlying tip of said slideable member whereby the upper end of a dental instrument inserted within said drive sleeve may be passed through said instrument top receiving hole in said slideable member to abut said handle member tip to align the instrument neck with an axial channel, connected with said hole and said channel may be locked around said neck on outward sliding movement of said retaining member whereby said instrument is mounted on said sleeve in said casing for rotary movement and for cushioned axial movement thereof, and said axial movement of said instrument is limited by said retaining member tip abutting the top cap wall, and elliptical coil spring means mounted to have its upper end abut the cap top wall and its lower end abut the resilient retaining member to cushion the axial movement of said instrument.

2,592,293
FINGER MASK
Lily R. Knepper, Joseph R. Newton, and Kenneth K. Knepper, Royal Oak, Mich.
Application April 9, 1951, Serial No. 219,954
9 Claims. (Cl. 132—88.5)



1. A skin mask for use when applying polish to a nail comprising a case, paired pivotally mounted spring pressed members extending outwardly from said case pivoting in a horizontal plane and another pivotally mounted spring pressed member extending outwardly from said case pivoting in a vertical plane below said paired members.

2,592,294
BEARING
Waldemar H. Korn, Dubuque, Iowa, assignor to Kornlube Products, Chicago, Ill., a copartnership
Application July 10, 1948, Serial No. 38,142
9 Claims. (Cl. 308—76)

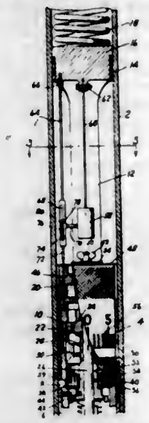


1. A journal bearing for transmitting a load between any standard journal and journal box having stationary oil supply means interposed between the lower portion of the latter and the journal for supplying lubricating oil to the journal, comprising a backing member having a plurality of parallel longitudinal circulating grooves in the outer side surfaces thereof for guiding the flow of oil from at least one end of said backing member over said outer surface for cooling the bearing, and means formed integrally with at least one end of said backing member and communicating directly with the adjacent ends of at least some of said longitudinal circulating grooves for collecting excess oil delivered to the journal by said oil supply means and carried upwardly by the journal and for delivering such excess oil to said circulating grooves to cool the bearing.

2,592,295
APPARATUS FOR DETERMINING THE TIME OF DESCENT OF INSTRUMENTS WITHIN BORE HOLES
Gottdank L. Kothny, Strafford, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application March 11, 1946, Serial No. 653,684
5 Claims. (Cl. 346—7)

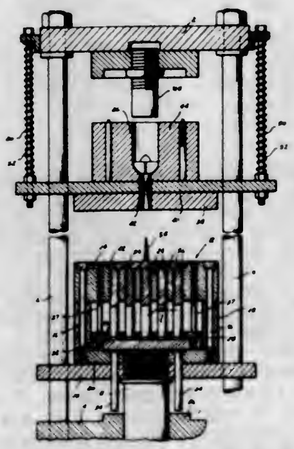
1. A device for making measurements within a bore hole comprising a protective casing, a clockwork timer in said protective casing, a

record member driven by said timer, a stylus suspended above said record member, and a mov-



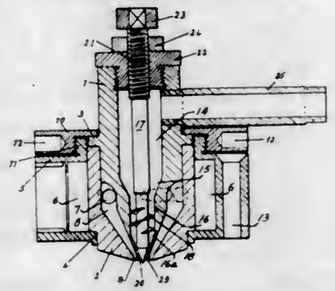
able weight suspended above said record member, said weight being linked to said stylus.

2,592,296
METHOD OF AND APPARATUS FOR MAKING BRUSHES
Louis F. Kutik, Fair Lawn, N. J.
Application April 1, 1950, Serial No. 153,428
9 Claims. (Cl. 18—42)



2. A mold for a brush part having a backing element and bristles integral therewith which comprises a mold having a main, backing element forming, cavity therein, said mold being composed of at least two parts separable to allow withdrawal of the molded brush part, a first part of the mold having a plurality of parallel passages therethrough communicating with the mold cavity, a plurality of spaced elongated parallel reciprocable members, one elongated member accurately fitting within each such passage, each elongated member having a plurality of longitudinally disposed flutes on its side surface, means to hold the elongated members in such first mold part with the ends of the flutes remote from the main mold cavity positioned within the passages in the first mold part, thereby forming bristle forming cavities with closed bottoms between the surfaces of the flutes and the passages in the first mold part, and means to thrust the elongated members outwardly through the mold cavity forming surface of the first mold part, after the mold parts have been separated, to eject the molded brush part from the mold.

2,592,297
ARRANGEMENT FOR ATOMIZING LIQUIDS
Pierre Robert Laguilharre, Enghien-les-Bains, France
Application April 5, 1949, Serial No. 85,514
In France April 9, 1948
7 Claims. (Cl. 299—115)



1. A liquid atomizing device comprising a first chamber the lower end of which is conical, a second chamber arranged coaxially within said first chamber and having near its lower end a substantially cylindrical throttled part connected to the discharge opening of said second chamber through a tapering part, both chambers being closed at their upper ends and provided at their lower ends with coaxial openings lying substantially in the same plane, a pipe connected with the upper part of said second chamber and adapted to feed into the latter the liquid to be atomized, at least one pipe connected tangentially with the first chamber and adapted to feed a gas under pressure into said chamber, a spindle movable axially in the second chamber, an Archimedean screw arranged within the throttled part of said second chamber and carried by said spindle, the diameter of said Archimedean screw being substantially equal to that of said throttled part and its pitch being directed so as to impress the liquid to be atomized with a swirling movement in a sense opposed to that of the movement of the gas entering the first chamber through the tangential pipe, a needle valve ending said spindle and adapted to close to a varying extent the discharge opening of said second chamber and means for adjusting the location of said spindle with respect to said second chamber.

2,592,298
PHOTOGRAPHIC REVERSAL PROCESS USING HIGH-INTENSITY FLASH EXPOSURE
Gerald I. P. Levenson, Wealdstone, England, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 1, 1950, Serial No. 141,833. In Great Britain February 14, 1949
2 Claims. (Cl. 95—5)

1. The method of producing a reversed photographic image, which comprises exposing to a lighted object or image, for a period not exceeding 0.001 second, with a high intensity light equal in intensity to a gas discharge lamp, a layer of a light-sensitive silver halide emulsion, a test layer of which, when coated on a support and the layer exposed to a light intensity scale for a fixed

time between 1/100 and one second, gives upon full development at 20° C. in the following developer (II):

Hydroquinone	grams	15
N-methyl-p-aminophenol sulfate	do	15
Sodium sulfite, anhydrous	do	50
Potassium bromide	do	10
Sodium hydroxide	do	25
Sodium thiosulfate, crystals	do	20
Water to	cc	1,000

a transmitted density which is the arithmetic mean of the minimum and maximum densities obtainable by varying only said intensity, which density is at least five times the transmitted density obtained when an identical test layer of the emulsion is exposed for the same length of time to light of the same intensity and fully developed at 20° C. in the following developer (I):

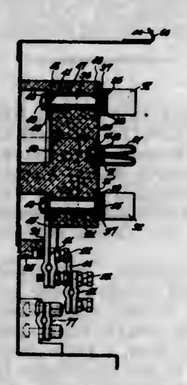
p-Hydroxyphenyl glycin	grams	10
Sodium carbonate, crystals	do	100
Water to	cc	1,000

soaking the exposed emulsion layer in a photographic developer which develops substantially only the latent image which is developable by the following developer (III):

Hydroquinone	grams	12
N-methyl-p-aminophenol sulfate	do	3
Sodium sulfite, crystals	do	90
Potassium bromide	do	4
Sodium carbonate, crystals	do	150
Water to	cc	1,000

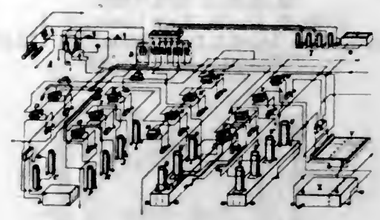
for a length of time sufficient to give no more than a negligible development of the latent image but sufficient to render the emulsion layer capable of forming surface latent image which is developable by the aforesaid developer (III), and then subjecting the emulsion layer to a uniform exposure to light to produce latent image, some of which is developable by the aforesaid developer (III), and then developing the emulsion layer in a developer which develops the latent image which is developable by said developer (III) and gives no more than a negligible development of the negative latent image formed by the original exposure compared with the positive image which is developed.

2,592,299
ELECTRIC INSTRUMENT SOCKET
Morgan J. Lewis, Philadelphia, Pa.
Application August 5, 1949, Serial No. 108,682
1 Claim. (Cl. 173—328)



In a meter socket, a base having a plurality of spaced openings therethrough and having terminal channels extending away from the openings, an insulating terminal shelf and terminal slots located at the outer ends of the channels, metallic contact rods extending through the openings, substantially smaller than the openings and having freedom laterally all around when the rods are centrally located, jaw contacts mounted on the respective contact rods at one end and terminal strips mounted on the respective contact rods at the other end and extending through the channels free therefrom, over the terminal shelf and engaged in the respective terminal slots, the distance from the adjacent end of each jaw contact to the adjacent end of each terminal strip being substantially more than the length of the corresponding openings, the terminal strips being spaced away from the base until they reach the terminal shelf and there being freedom of the jaw contacts toward and away from the base as well as laterally.

2,592,300
METHOD OF REMOVING HEMICELLULOSE FROM WOOD PULP
Jack McK. Limerick, Bathurst, New Brunswick, Canada
Application September 10, 1946, Serial No. 696,009
4 Claims. (Cl. 92—16)

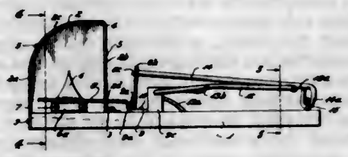


1. A multi-stage continuous process for purifying pulp each stage of which consists of the consecutive steps of providing a slurry of pulp and alkaline treating liquor in which the pulp, by weight, is from approximately 3 to approximately 5%, diluting the slurry to a pulp consistency of approximately 1% by the addition of alkaline treating liquor, then thickening the slurry to a consistency of approximately 6 to approximately 12% while simultaneously displacing the first alkaline treating liquor with a second, stronger alkaline treating liquor, then diluting the slurry to approximately 3 to approximately 5% pulp consistency by the addition of more of the second, stronger alkaline treating liquor, then advancing the thus diluted slurry continuously along a closed, predetermined path for a period of approximately fifteen to approximately sixty minutes, then repeating all of the above steps in three to four stages using consecutively stronger liquors for the final dilution step in each stage, the final dilution liquor in each stage coming from the thickening step of the next succeeding stage, continuously removing a predetermined proportion of liquor from one of the early stages, and continuously adding an equivalent amount of fresh liquor at the final dilution step of the last stage and regulating the rates of addition of fresh liquor and the removal of spent liquor to maintain the concentration of hemi-cellulose in the liquors below 5%, the several diluting steps being carried out with agitation to break up localized concentrations of dissolved hemi-cellulose adjacent the individual pulp fibers.

2,592,301
POLYMERIC 1,4-DICYANO-2-BUTENE
Robert G. Linville, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 14, 1949, Serial No. 127,250
2 Claims. (Cl. 260—78.4)

1. Polymeric 1,4-dicyano-2-butene having a molecular weight of at least 400.

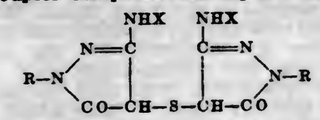
2,592,302
MOUSE OR RAT TRAP
John B. Long, Annville, Pa.
Application April 17, 1950, Serial No. 156,406
9 Claims. (Cl. 43—81)



1. A mouse or rat trap, comprising a base; a housing on said base open at one end; a bait holder on the closed end wall of the housing; a treadle extending through a horizontal slot in one side wall of the housing below the holder; means for pivoting said treadle on said base; an upwardly extending portion on said treadle exterior to the housing disposed substantially at right angles to the portion within the housing and provided with a hole; a hammer bar having a shaft at one end pivoted on the base parallel with the pivot means, and having its outer end disposed opposite the housing; spring means for normally swinging the hammer bar across the open end of the housing; and a trip rod pivoted on the base and adapted to enter the hole in the upwardly extending portion with said outer end of the hammer bar underlying the trip rod when the treadle is in raised position, whereby downward movement of the treadle will release the trip rod and hammer bar.

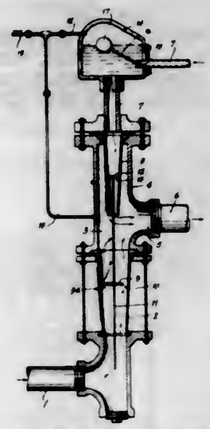
2,592,303
THIO-BIS-ACYLAMINO PYRAZOLONE COUPLERS FOR COLOR PHOTOGRAPHY
Anthony Loria, Paul W. Vittum, and Arnold Weissberger, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 12, 1948, Serial No. 59,776
6 Claims. (Cl. 95—6)

2. A photographic emulsion for forming colored images comprising a water-permeable, colloidal carrier containing a sensitive silver halide and a coupler compound having the formula:



where R is an aryl group and X is a carboxylic acid acyl group.

2,592,304
FLUID PROPORTIONING DEVICE
Anthony J. Lubeley, St. Louis, Mo., assignor to Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri
Application August 18, 1945, Serial No. 611,391
5 Claims. (Cl. 137—165)



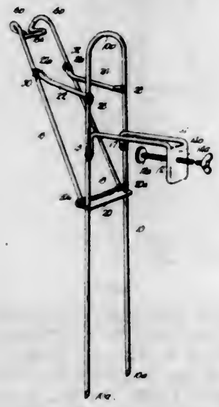
1. A device for effecting a proportional addition of secondary fluid to a primary fluid, said device comprising a mixing chamber and two conduits, one for the primary fluid and the other for the secondary fluid, having a coaxial vertically disposed discharge ends opening into said mixing chamber, the discharge end of the primary fluid conduit flaring upwardly and the discharge end of the secondary fluid conduit tapering downwardly and being spaced above the discharge end of said primary fluid conduit, a float mounted in the discharge end of said primary fluid conduit and having a stem extending axially into the discharge end of the secondary fluid conduit and terminating therein in a valve, whereby said float is responsive to changes in the rate of flow of the primary fluid and said valve is movable with said float to vary the volume of secondary fluid discharged from the discharge end of said secondary fluid line to thereby maintain a constant proportionate addition of the secondary fluid to said primary fluid regardless of changes in the flow rate of the latter, said secondary fluid conduit having a second chamber therein above the level of the discharge end thereof, means for maintaining said secondary fluid at a constant level in said second chamber, a conduit communicating at one end with said mixing chamber adjacent to the discharge end of said secondary fluid conduit and at the other end with said second chamber above the level of the secondary fluid therein, and means for supplying fluid pressure to said last mentioned conduit for preventing entry therein of the fluid in said mixing chamber.

2,592,305
METHOD OF LOWERING THE VISCOSITY OF HYDROLYZED CELLULOSE ESTERS AND PRODUCT
Carl J. Malm and Leo J. Tanghe, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 30, 1949, Serial No. 90,766
5 Claims. (Cl. 106—194)

5. Cellulose acetate having an acetyl content of 38.5%, an alkaline earth metal residue therein and .05–.1% of a sodium acid phosphate whose

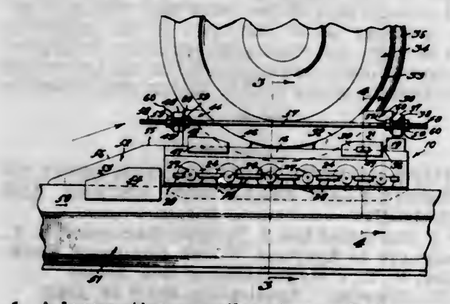
solution in water has a pH of 4–6, which cellulose acetate resists the effect of heating at 180° C. for 24 hours without objectionable discoloration, and whose solution in acetone is not affected by the viscosity-raising effect of the alkaline earth metal residue.

2,592,306
FISHING POLE HOLDER
Perry V. Maze, Rulo, Nebr.
Application December 21, 1950, Serial No. 201,954
2 Claims. (Cl. 248—42)



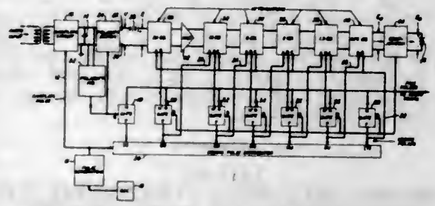
1. In a holder of the character described, an upright support comprising a pair of generally vertical legs joined at their upper ends by an integral cross member, a cradle laterally spaced from said cross member, means mounting said cradle on said legs for adjustment up and down relative to said cross member, an arch-shaped bracket having one end pivotally connected to said legs to swing about a generally horizontal axis disposed in the plane in which said legs lie, and an elongated clamping element screw threadedly supported in the other end of said bracket for axial movement relative thereto, the axis of said elongated element being cross-wise of the pivotal axis of said bracket and radial thereto.

2,592,307
WHEEL TRUCK OR DOLLY
Roger G. McGowan, Youngstown, Ohio
Application August 9, 1950, Serial No. 178,521
9 Claims. (Cl. 105—216)



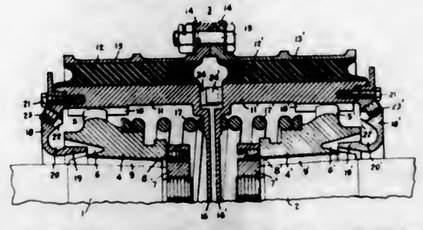
1. A locomotive or railroad car wheel supporting dolly comprising an elongated body structure, a plurality of rollers journalled in said body structure in longitudinally spaced relationship to one another and disposed transversely of said body structure, said rollers having peripheral portions extending below the body structure and adapted to engage the tread portion of a rail head for mounting the body structure for rolling movement along said rail head, said body structure having a depending flange at one side edge thereof extending below the bottom portions of said rollers and adapted to engage against the outer side of the rail head, said body structure having an upper portion extending from end-to-end thereof of approximately the same width as a conventional rail head and substantially narrower than the portion of the body structure disposed therebeneath, said restricted upper portion forming an auxiliary rail head adapted to support a defective locomotive or railroad car wheel thereon in an elevated position relatively to a rail engaged by the dolly, a stationary chock mounted on one end of said auxiliary rail head having a concave portion adapted to be disposed in abutting engagement with a portion of the wheel felly, means cooperating with said wheel felly portion to retain said stationary chock immovably on the auxiliary rail head, a movable wheel chock slidably mounted on the opposite end of the auxiliary rail head for movement toward and away from the stationary wheel chock having a concave upper portion adapted to engage flush against another portion of the wheel felly, said chocks being disposed on either side of an intermediate wheel felly portion which engages the auxiliary rail head, and connecting means detachably connected to the wheel chocks and urging the movable wheel chock toward the stationary wheel chock for anchoring the wheel on the auxiliary rail head portion and securing it immovably upon the dolly.

2,592,308
NONLINEAR PULSE CODE MODULATION SYSTEM
Larned A. Meacham, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 1, 1948, Serial No. 47,255
8 Claims. (Cl. 179—43.5)



1. In a pulse code modulation system for transmitting signal waves by code groups of pulses, means for recurrently sampling the amplitude of a signal wave, a coder for representing the amplitude of each sample by a code group of pulses according to a permutation code in which the code groups correspond to amplitudes expressed on a non-linear scale, means for modifying said samples by addition thereto of a quantity equal to the lowest amplitude represented by a code group of said code and applying said modified samples to the coder, means for transmitting said code groups, a receiver and means at the receiver for reconstructing the modified samples from the corresponding code groups, means for subtracting from each reconstructed sample a quantity equal to that added at the transmitter and means for combining the resultant samples.

2,592,309
FLEXIBLE COUPLING
Donald R. Meier, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application October 5, 1949, Serial No. 119,686
2 Claims. (Cl. 64—9)



1. A flexible coupling for transmitting torque between substantially aligned driving and driven shafts comprising internal cylindrical members provided with internal gear teeth and having integral end plates enclosing the adjacent ends of said shafts, hub members adapted to be splined to said shafts within said internal members and provided with peripheral teeth meshing with said internal teeth to transmit torque between said shafts and said internal members, external cylindrical members enclosing said internal members and provided with corresponding adjacent peripheral flanges, fastening means securing together pairs of said flanges, cylindrical members of elastic material filling the spaces between said inner and outer members and having inner and outer surfaces bonded to adjacent surfaces of said members to transmit torque therebetween, interspaced lugs mounted upon the adjacent end surfaces of said inner cylindrical members for fail-safe transmission of torque therebetween, circular end plates mounted upon said inner members and adapted to surround said shaft to retain grease for said teeth therein, and spring means mounted between said end plates and said hubs thereby to position said inner cylindrical members.

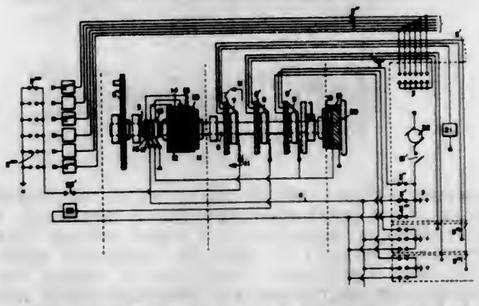
2,592,310
POLYSTYRENE PLASTICS CONTAINING RESORCINOL MONOBENZOATE
Lester W. A. Meyer and William M. Gearhart, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 12, 1949, Serial No. 76,197
2 Claims. (Cl. 260—45.85)

1. A polystyrene plastic relatively stable to ultraviolet light consisting principally of polystyrene, and containing as an essential ingredient approximately 1%–2% of resorcinol monobenzoate based on the weight of the polystyrene.

2,592,311
POLYVINYL CHLORIDE PLASTICS CONTAINING RESORCINOL MONOBENZOATE
Lester W. A. Meyer and William M. Gearhart, Kingsport, Tenn., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 12, 1949, Serial No. 76,198
2 Claims. (Cl. 260—45.85)

1. A polyvinyl chloride plastic relatively stable to ultra-violet light consisting principally of polyvinyl chloride, and containing as an essential ingredient approximately 1%–2% of resorcinol monobenzoate based on the weight of the polyvinyl chloride.

2,592,312
ELECTRIC IMPULSE COLLECTING AND REGISTERING INSTALLATION
Robert Milburn, London, England, assignor, by mesne assignments, to General Register Corporation, Long Island City, N. Y., a corporation of New York
Application February 28, 1946, Serial No. 650,994
In Great Britain March 2, 1945
4 Claims. (Cl. 235—92)

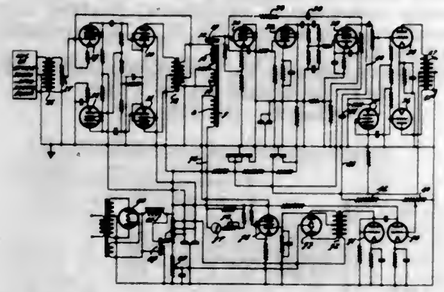


1. In combination, a rotary switch comprising a contactor and a plurality of contacts engageable thereby, continuously rotating driving means for advancing said rotary switch, a magnetic clutch between said driving means and said rotary switch, a plurality of sending stations each having associated therewith switching means connected to one of said contacts, further switching means at each station for energizing said magnetic clutch and for causing advance of said switch, means comprising a magnetic brake for arresting advance of said rotary switch, means connecting said contactor and said arresting means to render the latter effective to arrest advance of said rotary means when the contactor engages a contact connected to a closed one of said switching means, a second rotary switch comprising a contactor and a plurality of contacts engageable thereby, said driving means advancing said second switch in synchronism with the first switch so that engagement of the contactor of the second switch with each contact thereof coincides with engagement of the contactor of the first switch with a corresponding contact thereof, and means controlled by said second switch for rendering the arresting means ineffective to restrain advance of said switches following each arresting action of said arresting means.

2,592,313
SIGNAL VOLUME VARYING SYSTEM
Adolph R. Morgan, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 11, 1947, Serial No. 791,971
6 Claims. (Cl. 179—171)

1. A signal transmission system comprising a signal amplifier, an electrical current to mechanical motion transducer on which the output of said amplifier is impressed, said transducer including a mechanical motion to electrical voltage portion, a second amplifier on which the output of said transducer is impressed, means for deriving a direct current varying in accordance with the variations in amplitude of the out-

put of said second amplifier, and means for impressing said direct current on said transducer to vary its sensitivity and the amplitude ratio between the output of said first mentioned amplifier and the input to said second amplifier, said transducer including a magnetic core, a field coil on which said direct current is impressed, a signal current coil on which the output of said first mentioned amplifier is impressed, a diaphragm attached to said signal current coil, and an electrostatic electrode positioned adjacent said diaphragm, variations in voltage between said diaphragm and electrode being impressed on the input of said second amplifier.

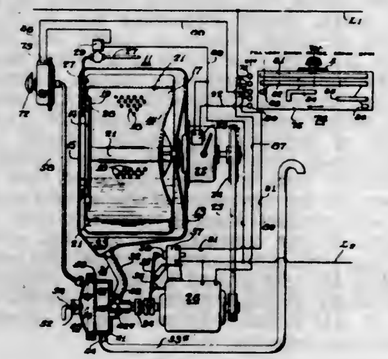


2,592,314

CLEANING APPARATUS

Eldred O. Morton, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 31, 1948, Serial No. 5,537
10 Claims. (Cl. 137—68)



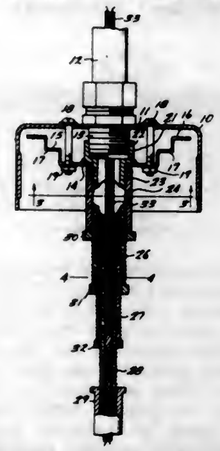
1. In cleaning apparatus, the combination of a tub for containing a body of cleaning fluid and the material to be cleaned, means for admitting cleaning fluid to the tub, a pump for withdrawing vitiated fluid from the tub and including a pump chamber communicating with the lower portion of the tub, said pump having a port for discharging fluid from said chamber, an impeller within said chamber for translating fluid through said discharge port, means for starting and stopping operation of the impeller, a pressure-responsive device for controlling operation of said fluid admitting means and means providing communication between said pressure-responsive device and a region of said pump chamber which is subjected to relatively low pressure during operation of the impeller.

2,592,315

UNIVERSAL ELECTRIC FIXTURE HANGER

Clifton Evans Mosley, Jackson, Miss.

Application September 30, 1948, Serial No. 51,975
2 Claims. (Cl. 248—343)



1. In a hanger for electric fixtures, the combination with an outlet box provided with an aperture in its top, a conduit having a threaded fitting projecting through said aperture, of an anchoring bar arranged in said outlet box, a bushing extending through the center of the anchoring bar and secured to said anchoring bar and having an upper internally threaded socket for receiving said fitting, said anchoring bar including a pair of opposed fluted feet, each of said feet being provided with an elongated slot, securing elements extending through said slots and into engagement with said outlet box, said bushing including an exteriorly threaded lower portion, a cuff provided with a pair of opposed apertures threadedly engaging the lower portion of said bushing, a first open-ended screw section arranged in threaded engagement with the lower portion of said cuff, a second open-ended screw section threaded exteriorly and interiorly and arranged in threaded engagement with the interior of said first screw section and mounted for telescopic movement into and out of the latter, a third open-ended screw section threaded interiorly and exteriorly and having an end arranged in engagement with the threaded interior of said second screw section and mounted for telescopic movement into and out of the latter, the other end of said third screw section adapted to be connected to an electric fixture, and means for maintaining said section immobile.

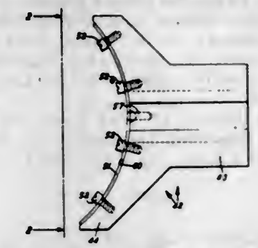
2,592,316

GAUGE FOR MEASURING CURVED SURFACES

Earl C. Moss, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application July 12, 1946, Serial No. 683,183
1 Claim. (Cl. 33—174)

An edge gauge for checking the contour of a curved surface at the curvilinear intersection of a given cylindrical surface therewith, said gauge comprising a flexible normally flat gauging element having one edge contoured to the planar development of the desired contour of the curved surface at the curvilinear intersection, a massive rigid body holding the normally flat element with its contoured edge flexed to the curvature of the cylindrical surface and rigidly supported close to the contoured edge, and means for mounting the gauge with the contoured edge aligned with the curvilinear intersection.



2,592,317

PLASTIC COMPOSITIONS OF ACRYLONITRILE POLYMERS

Pierre Mosse, Lyon, France, assignor to Societe Rhodiaceta, Paris, France

No Drawing. Application February 17, 1951, Serial No. 211,570. In France November 6, 1950
13 Claims. (Cl. 260—32.6)

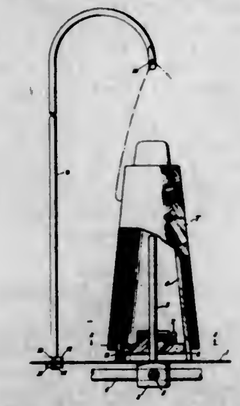
1. As a new composition, the solution of a plastic consisting of a polymer of acrylonitrile, in a solvent consisting of a mixture of dimethylformamide with a liquid hydrocarbon which is homogeneously miscible with dimethylformamide and has a boiling point above 100° C. under atmospheric pressure, said hydrocarbon being used in an amount of 1 to 20%, based on the total weight of the solvent mixture.

2,592,318

THREAD-CONE SUPPORT FOR SEWING MACHINES

Edward Muecke, Linden, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application June 26, 1946, Serial No. 679,521
1 Claim. (Cl. 242—130)



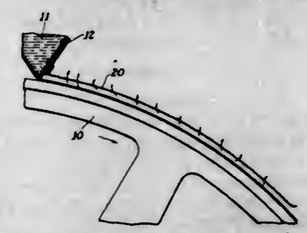
A stationary thread-cone holder adapted to be secured upon a supporting rod, comprising, a lug apertured to fit upon said rod, securing means for locking said lug in a set position upon said rod, a flat base-plate rigidly mounted upon said lug, a cylindrical pin extending from and disposed normal to said base-plate, a peripherally threaded and centrally apertured disk slidably mounted upon and lengthwise of said pin, the threaded periphery of said disk being adapted to have threaded thereon a soft thread-supporting cone with the thread engagement between the disk and the cone serving to force the bottom end of the cone into pressure contact with said base-plate, and securing means for locking said disk in selective positions of adjustment lengthwise of said pin.

2,592,319

CASTING APPARATUS FOR FILM SUPPORT OR SHEETING

Gale F. Nadeau and Alf M. Glasoe, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 1, 1949, Serial No. 85,001
4 Claims. (Cl. 18—15)



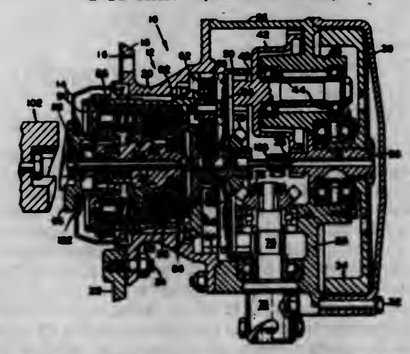
1. A sheet casting apparatus comprising a movable casting surface, a hopper for depositing a uniform thin film of evaporative-type dope onto said casting surface, means for circulating air over that portion of the casting surface carrying said deposited dope to evaporate and cure the same, and a fine mesh screen, independent of said last-mentioned means, extending from the hopper in the direction of movement of the casting surface and being disposed in parallel spaced relation with said casting surface to prevent eddy currents in the circulating air from directly contacting the film of dope of said casting surface and to permit the dope to evaporate due to a diffusion action, said screen being long enough to cover that portion of the casting surface up to the point where the dope is sufficiently set to resist being "worked" by the circulating air passing over said casting surface.

2,592,320

TORQUE LIMITING MEANS FOR ENGINE STARTERS AND THE LIKE

Romeo Morton Nardone, Teaneck, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application August 8, 1947, Serial No. 767,617
4 Claims. (Cl. 123—179)



1. In an engine starter comprising a flywheel, a flywheel pinion, a rotatable orbital gear having

a sun gear, a bell gear engaging said pinion and having a pinion engaging said orbital gear, a stationary orbital gear, a barrel, planet gears carried by said barrel between said stationary orbital gear and said sun gear, an axially stationary rotatable nut in said barrel, a screw shaft having long lead thread connection to said nut thereon, a starter jaw member having a shank splined to said shaft, means including mesh rod means adapted to engage said starter jaw member to an engine jaw element, a sleeve around said mesh rod, a bevel gear carried by and rotatable with said sleeve, a second bevel gear engaging said first bevel gear, and means providing for operating said second bevel gear, the combination of a multi-part torque limiting friction disc pack in said barrel having discs of one part splined to said barrel and said nut, respectively, and discs of another part connected to said barrel and said sleeve, respectively.

2,592,321

METHOD FOR THE MANUFACTURE OF AGGLOMERABLE IRON POWDER

Louis Neel, Grenoble, France, assignor to Societe d'Electro-Chimie, d'Electro-Metallurgie et des Acieries Electriques d'Ugine, Paris, France, a corporation of France

No Drawing. Application March 28, 1945, Serial No. 585,400. In France March 1, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 1, 1963
1 Claim. (Cl. 75—0.5)

A method of making an exceedingly fine iron powder capable of forming by cold compression compressed products having a density of the order of at least 7 grams per cc., having a proportion of voids less than about 10% for agglomerating pressures of 5 to 10 tons per square centimeter, which are non-friable and have high mechanical strength, which method consists in decomposing iron formate by heat and reducing the decomposed product with reducing gas at a temperature between 500° C. and 750° C. and at a great flow rate until the iron powder contains not over 1% of oxgen.

2,592,322

ROCKET MOTOR PUMPED SUPERSONIC WIND TUNNEL

Anthony J. Nerad, Alplaus, N. Y., assignor to General Electric Company, a corporation of New York

Application September 2, 1948, Serial No. 47,401
6 Claims. (Cl. 73—147)



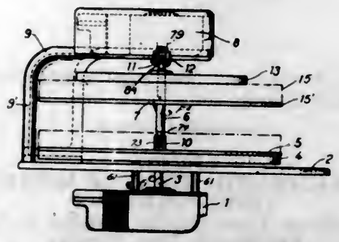
1. A supersonic wind tunnel comprising, progressing downstream from the inlet, a throat, a supersonic expansion section, a test section, and a section wherein is mounted a power means whereby fluid flow is induced in said supersonic wind tunnel, said power means comprising a reaction motor positioned within the path of fluid flow through said wind tunnel, and a mixing tube section comprising a converging-diverging nozzle wherein the exhausting products of combustion escaping from said reaction motor entrains and ejects the fluid within the wind tunnel causing flow of fluid through the wind tunnel.

2,592,323

AUTOMATIC RECORD CHANGING TALKING MACHINE

Amédée Nicole, Sainte Croix, and Louis Thévenaz, Les Rasses, near Sainte Croix, Switzerland, assignors to Hermann Thorens Societe Anonyme, Sainte Croix, Switzerland, a firm of Switzerland

Application August 17, 1945, Serial No. 611,000
In Switzerland September 21, 1944
1 Claim. (Cl. 274—10)



In an automatic record-changing talking machine adapted to play successively the underside of the lowermost record of a stack supported on first rotatable supporting means driven by a first vertical shaft and the upper side of the same record after being dropped without reversal onto second rotatable supporting means driven by a second vertical shaft situated underneath and in alignment with the first vertical shaft, a frame, first bearing means for said first vertical shaft fixedly secured to said frame, second bearing means for said second vertical shaft fixedly secured to said frame, a removable shaft adapted to fit, in the playing position of the talking machine, between the adjacent extremities of said two vertical shafts, and in alignment with them, semi-spherical members at both ends of said removable shaft, a thrust ball bearing at the upper end of said second vertical shaft, for the lower semi-spherical member of said removable shaft, a coupling member at the lower end of said first vertical shaft provided with a recess adapted to engage the upper semi-spherical member of said removable shaft, the depth of said recess over said semi-spherical member being at least equal to the length of the lower portion of said removable shaft engaged in said thrust bearing when said removable shaft is in position for the playing of the records, so as to allow the removal of said removable shaft from said position without displacing any of said bearing means and to permit the lateral introduction of the records to be played between the adjacent extremities of said two vertical shafts.

2,592,324

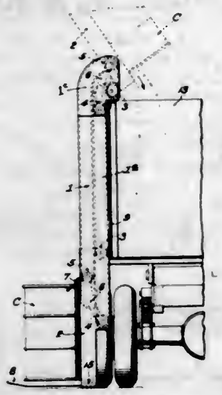
GARBAGE LOADING ASSEMBLY FOR TRUCKS

Paul M. Oliver, East Point, Ga., assignor of one-third to William O. Matthews, Atlanta, Ga., and one-third to Paul E. Oliver, Knoxville, Tenn.

Application September 5, 1950, Serial No. 183,210
4 Claims. (Cl. 214—67)

1. In a material handling assembly for vehicles or the like having a material receiving body, a pair of opposed spaced guides vertically mounted on the said body, each guide comprising inner and outer channels secured together edge to edge with their open faces disposed in opposed relation, the said channels being closed at their upper and lower ends, and their lower ends terminating below the said body; the upper ends of the inner channels curving over the top of the said body,

and the upper ends of the outer channels overlying and being spaced from the upper ends of the inner channels; a dumping frame having a platform at its lower end adapted to hold a container; means for securing said container thereon; a set of rollers carried by the upper ends of the frame running in said inner guide channels; a second set of rollers on the frame below



the first set and running in the outer guide channels; a third set of rollers below the second set running in the inner guide channels; arms pivoted on the frame coaxially of the second set of rollers in which the third set of rollers are journaled; and means for raising the third set of rollers to raise the frame to the upper ends of the guide channels, thereby tilting the dumping frame and container over the top of the truck body.

2,592,325

WELL FLOW REGULATING APPARATUS

Herbert C. Otis and John C. Luccous, Dallas, Tex.; said Luccous assignor to said Otis

Application January 28, 1943, Serial No. 473,838
6 Claims. (Cl. 166—2)



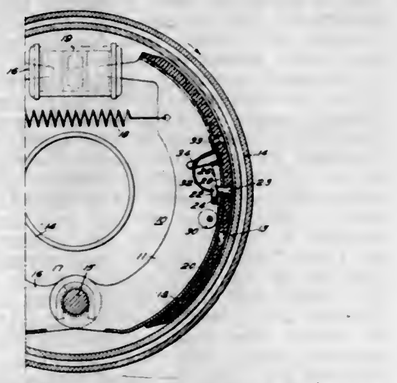
1. In a fluid pressure regulator for the fluids of a flowing well having tubing therein, the combination with a surface control for regulating the rate of withdrawal of well fluids from the tubing, of a body provided with means for mounting it in a well tubing upstream of the surface control and having a flow passage therethrough, valve members in the body for controlling the flow of well fluid through the passage of said body at a predetermined substantially constant pressure reduction, one of said valve members being movable toward and from the other valve member, and means constantly urging said movable valve member toward the other valve member to automatically regulate the flow past the valve members in response to adjustments of the surface control to create and to maintain said predetermined substantially constant reduction in the pressure of the fluid flowing past said valve members, said other valve member being movable and held normally stationary by means yieldably restraining its movement, said other valve member being movable by a downward fluid pressure of fluid in the well tubing to permit a reverse flow of fluid through the regulator.

2,592,326

AUTOMATIC BRAKE ADJUSTING MEANS

Oswald V. Page, Pottstown, Pa., assignor, by mesne assignments, to Neapco Products Inc., a corporation of Delaware

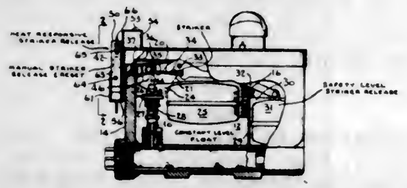
Application December 24, 1946, Serial No. 718,246
5 Claims. (Cl. 188—79.5)



1. The combination with a brake shoe, a brake drum, and a normally stationary member within said drum, of means for adjusting the off-position clearance of a brake shoe and its lining within a brake drum and with respect to a cam within said drum comprising an elongated wedge disposed between said cam and said brake shoe, the thickness of said wedge gradually increasing from one end toward the opposite end thereof, and the thickness between said cam and said brake shoe predetermining the off-position clearance of said lining with respect to said drum, said wedge having an elongated slot and a series of serrations crosswise of said wedge, a wedge-control member having an elongated guiding surface slidably engaging an inner surface of said slot to prevent relative turning movement therebetween, said member having a sharp-edged means disposed in engagement with one of said serrations, said member having a transverse slot across the inner surface thereof, a relatively wide spring having one end disposed within said transverse slot for preventing turning of said member and of said wedge and for biasing said member against said wedge and said wedge against said brake shoe, said member having an actuating portion extending through said brake shoe and its lining and upon application of the brake shoe and after wear of the brake lining operable by engagement with said brake drum to disengage said sharp-edged means from said one serration for advance

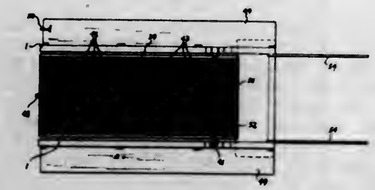
of said wedge between said cam and said brake shoe until engagement of said sharp-edged means by another serration of said wedge.

2,592,327
SAFETY CONTROL
Vernon R. Pawelsky and Edward R. Rack, Milwaukee, Wis., assignors to A P Controls Corporation, a corporation of Wisconsin
Application June 23, 1949, Serial No. 100,832
7 Claims. (Cl. 137—68)



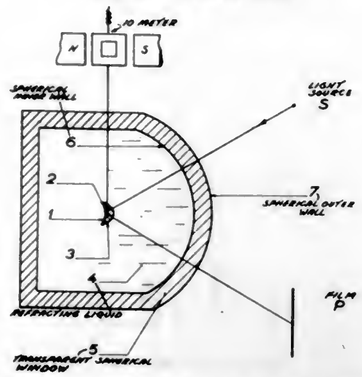
1. A fuel flow control device, comprising, a casing, a valve for controlling flow into said casing, means for regulating said valve to maintain a constant level, a striker positioned for movement into contact with said valve, means biasing said striker into forcible contact with said valve, means normally holding said striker in an inactive position, means for releasing said striker for movement under the influence of said biasing means in response to a predetermined increase in fuel level in said casing above said constant level, manual means for resetting said striker in said inactive position, said manual means also being operative to release said striker, means adapted to contact and actuate said manual means to release said striker, means at all times tending to bias said actuating means into contact with said manual means, and means for retaining said actuating means in a normal position out of contact with said manual means to permit reset and release operation of said manual means, said retaining means being responsive to a predetermined temperature to release said actuating means.

2,592,328
ONION HARVESTING MACHINE
Nick Perry and Sylvester Schultz, Chicago Heights, Ill.
Application September 16, 1946, Serial No. 697,244
1 Claim. (Cl. 209—313)



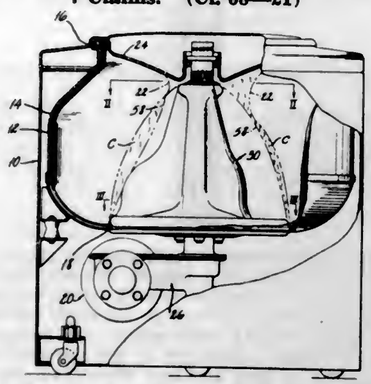
In an onion harvesting machine, an elongated inclined shaker, means to oscillate said shaker, said shaker being box-like and having a pivoted panel closure at its lower end, an upper end portion of the bottom of said shaker comprising parallel spaced grid rails extending transversely of the shaker, and a lower end portion of the bottom of the shaker comprising a plurality of parallel spaced longitudinally extending grid rails.

2,592,329
OPTICAL APPARATUS FOR MEASURING BY DEFLECTION
Maxime Felix Benoit Picard and Marcel Schlumberger, Paris, France, assignors to Societe De Prospection Electrique Procedes Schlumberger, Paris, France, a corporation of France
Application August 9, 1946, Serial No. 689,433
In France August 23, 1945
7 Claims. (Cl. 88—24)
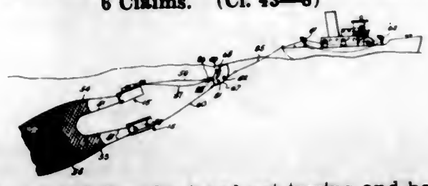


1. In an apparatus for optically measuring deflections, the combination of a pivoting member subjected to deflection, a reflecting surface rigid therewith, a source of light illuminating said reflecting surface, a hollow vessel enclosing said pivoting member, said vessel having a transparent spherical portion through which light may be transmitted from said source to said reflecting surface, said transparent spherical portion having concentric front and rear surfaces with centers of curvature located substantially at the pivoting point of the pivoting member, a refracting liquid in said vessel, said liquid having an index of refraction greater than one and extending to a level above said reflecting surface, and means outside of said vessel and in the path of the light reflected from the reflecting surface through said transparent spherical portion for providing measurements of said deflections.

2,592,330
WASHING MACHINE
Orpheus F. Quartullo and Henry Baade, Cleveland, Ohio, assignors, by mesne assignments, to Westinghouse Electric Corporation, a corporation of Pennsylvania
Application January 3, 1947, Serial No. 720,011
7 Claims. (Cl. 68—21)



4. A washing machine for clothes and the like including a tub, an agitator mounted in the tub, the agitator having a hub portion, a plurality of radially-positioned, circumferentially-spaced beater means secured to the hub portion, a hollow fluid-tight flexible cover over the beater means, said cover conforming generally to the shape of the beater means and secured in fluid-tight relation to the top and bottom of the agitator, means for oscillating the agitator, a fluid-tight flexible lining inside the tub and secured thereto by a fluid tight joint adjacent the upper and lower portions of the tub, and means for supplying fluid under pressure to the inside of the cover and intermediate the tub and the lining to squeeze liquid out of clothes contained in the tub.

2,592,331
TRAWL NET TOWING AND HAULING EQUIPMENT
Frank A. Ray, Fairhaven, Mass.
Application April 6, 1946, Serial No. 660,183
6 Claims. (Cl. 43—8)



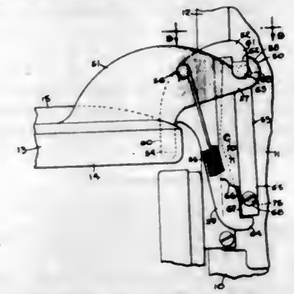
1. A trawl door for trawl net towing and hauling equipment, comprising a board, brackets hinged to said board, a block permanently joining said brackets, said block being provided with a channel, a tow line and bridle line log adapted to be housed within said channel, and means for locking said log within said channel in a transverse and in a longitudinal direction.

2,592,332
PROCESSES FOR PREPARING CONCENTRATED BANANA PRODUCTS
Lucio Reale, New York, N. Y.
No Drawing. Application May 6, 1950, Serial No. 160,579
5 Claims. (Cl. 99—204)

1. The process for preparing banana extracts and preserves, which consists in first storing bananas in an atmosphere of about 25° C. until ripe; maintaining watch over the bananas until exactly ripe; removing the peel from the ripe bananas; externally cleaning the peeled bananas to remove strings and adhering peel particles; splitting the bananas lengthwise and removing the halves of the seed-bearing core from said halves; mashing the cleaned and cored split bananas to reduce them to pulp; cooking the mashed banana pulp for a period of time ranging from 45 to 90 minutes; filtering the cooked banana pulp under pressure to remove fibrous material; mixing sugary and saline substances with the cooked filtered banana pulp; concentrating the mixed filtered and cooked banana pulp to a predetermined consistency by exposing the same to heat in vacuo; and drying the thus obtained concentrated product by exposing it to hot air.

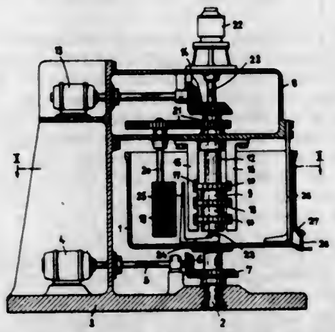
2,592,333
OVEN DOOR AND HINGE STRUCTURE
Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application July 26, 1949, Serial No. 106,893
19 Claims. (Cl. 126—194)

12. The combination with a door frame having a connecting element projecting inwardly at one side thereof, of a door, a hinge mechanism supporting said door on the frame comprising an elongated hinge member rigidly secured at one end to the door and having its other end projecting beyond the lower edge of the door, a second elongated hinge member pivotally secured to said first



hinge member, said second hinge member having an extension shaped to coact with the connecting element on the door frame for supporting and removably securing the hinge member to the frame, the projecting end of said first hinge member cooperating with the extension of said second hinge member to limit the movement of the door toward open position.

2,592,334
MIXING MACHINE
Ernst A. Reiffen, Kassel-Wilhelmshohe, Germany
Application May 8, 1950, Serial No. 160,675
In Germany October 1, 1948
8 Claims. (Cl. 241—243)

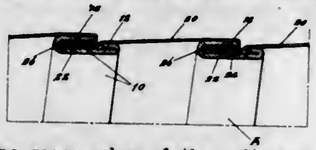


1. In a mixing machine, a mixing vessel, a plurality of comb bodies disposed in the mixing vessel, and a rotary mixing body in the form of a side milling cutter mounted in the vessel so that its teeth pass between the teeth of the comb bodies which are arranged in pairs in such a way that each pair is arranged in a spaced relationship and forms a system, the front comb body in relation to the direction of rotation of the mixing body having wider gaps between its teeth than the succeeding comb body of each pair.

2,592,335
COLLAPSIBLE TUBING
William E. Rejeski, Hartford, Conn., assignor to The Wiremold Company, Hartford, Conn., a corporation of Connecticut
Application February 24, 1949, Serial No. 78,135
14 Claims. (Cl. 138—51)

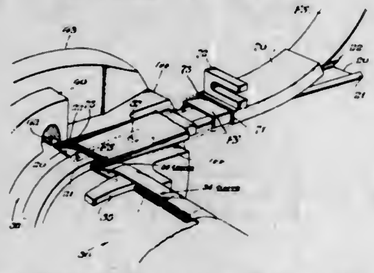
1. Collapsible tubing comprising a strip of metal wound into a spiral, an edge of said spiral

being folded over outwardly, a strip of flexible material having one edge inserted under said folded edge of one convolution of said spiral, the other edge of said flexible strip being inserted



under the same edge of the adjacent convolution of said spiral, said folded spiral edge being bent down to frictionally hold the edges of the flexible strip.

2,592,336
MACHINE AND METHOD FOR FORMING COLLAPSIBLE TUBING
William E. Rejeski, Hartford, Conn., assignor to The Wiremold Company, Hartford, Conn., a corporation of Connecticut
Application March 10, 1949, Serial No. 80,675
30 Claims. (Cl. 154—7)



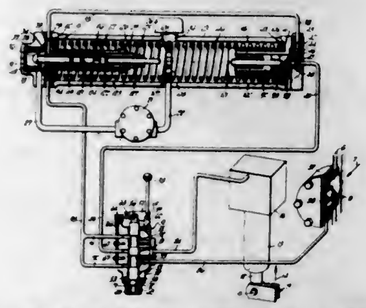
1. The method of forming collapsible tubing comprising forming a spiralled convolution from a preformed strip of metal having at least one edge bent to form a flange, inserting one edge of a strip of flexible material under one flange of said metal strip during the formation of said convolution, inserting the other edge of said flexible strip under said one flange during the formation of a succeeding convolution, and pressing down said one flange of the metal strip on the inserted edges of the flexible strip.

11. In a machine for forming collapsible tubing from a preformed strip of metal having at least one edge bent to form a flange, means to form said metal strip into successive spiralled convolutions, means to insert the trailing edge of a flexible strip under the trailing flange of the metal strip in one convolution, means to insert the forward edge of the flexible strip under the trailing edge flange of the metal strip in a second convolution, and means to press said trailing flange onto the inserted edges of flexible strip in said second convolution.

2,592,337
METHOD OF CHILL CASTING BRASS AND OTHER COPPER ALLOYS CONTAINING ZINC
Neil Douglas Gordon Robertson, Hartsbourne, Bushey Heath, and George William Browse, London, England, assignors to The Non-Ferrous Die Casting Company Limited, London, England
No Drawing. Application July 23, 1949, Serial No. 106,498
6 Claims. (Cl. 22—189)

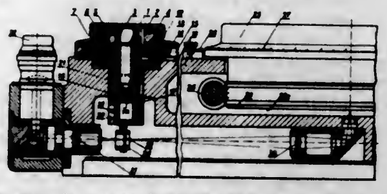
1. The method of chill casting brass and other copper alloys containing zinc in metal molds or dies, which includes the step of applying to the die faces a dressing of a metal oxide capable of being reduced to a lower oxide by metallic zinc at pouring temperatures.

2,592,338
HYDRAULIC SYSTEM
Harvey W. Rockwell, Cedar Rapids, Iowa, assignor to La Plant-Choate Mfg. Co., Inc., Cedar Rapids, Iowa, a corporation of Delaware
Application April 17, 1946, Serial No. 662,787
7 Claims. (Cl. 103—42)



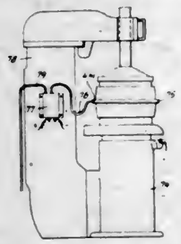
1. A hydraulic system comprising a reservoir, a conduit, a pump withdrawing from said reservoir and discharging into said conduit, a bypass extending from said conduit to said reservoir, a valve when closed blocking said by-pass, an actuator for said valve extending into said reservoir, a spring in said reservoir, means for flexing said spring, and abutment means associated with an intermediate part of said spring and movable in accordance with the flexure of said part, said abutment means being positioned adjacent said actuator for moving said actuator in a direction to open said valve upon sufficient flexing of said spring.

2,592,339
MICROSCOPE MEASURING DEVICE
Germain Rollat, Geneva, Switzerland, assignor to the firm Societe Genevoise d'Instruments de Physique, Geneva, Switzerland, a firm of Switzerland
Application December 18, 1947, Serial No. 792,541
In Switzerland April 4, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires April 4, 1964
2 Claims. (Cl. 116—133)



1. In a micrometrical device, a casing, a micrometer screw, a graduated micrometer drum frictionally mounted on said screw and having a conical notch on its periphery, a stationary index on said casing in front of the graduation of said drum, a conical plunger mounted in said casing for locking said drum by interengagement with said notch when the zero of the drum graduation is in alignment with said stationary index and means for limiting the rotation of said screw, whereby independent rotation of said screw is allowed whilst the drum remains stationary, what makes it possible to keep the zero of the drum graduation in coincidence with said stationary index whilst displacing the micrometer screw, said zero of the drum graduation corresponding thus to any desired position of the micrometer screw.

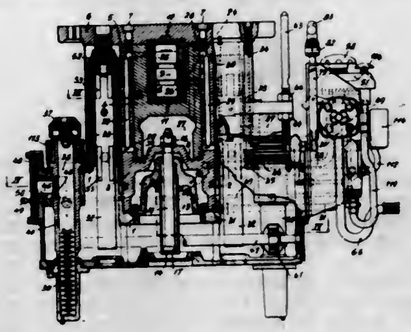
2,592,340
APPARATUS FOR THE PREHEATING OF PATTERN PLATES
Robert André Ronceray, Thiais, France
Application July 27, 1948, Serial No. 40,874
In France January 20, 1948
2 Claims. (Cl. 22—9)



1. An apparatus for the pre-heating of pattern-plates mounted on a moulding machine for the construction of sand moulds used in foundry work, which comprises, in combination with a moulding machine driven by compressed air and a pattern-plate, a conduit connected to said machine for receiving compressed air therefrom, an electric device for the pre-heating of the compressed air, a heat insulated container within which is arranged said electric device and connected to said conduit, an inlet and an outlet for the compressed air provided in said container and calibrated so as to permit an expansion of the compressed air in it, a heat exchange device disposed in the pattern-plate to be pre-heated, a further conduit connecting said heat exchange device to the outlet of said container, control means connected to said first mentioned conduit for receiving and being actuated by the compressed air therein and an electrical switch connected to the circuit of said electrical device for controlling the source of current thereto and to said control means for being actuated thereby and closing said circuit upon the passage of compressed air through said first mentioned conduit.

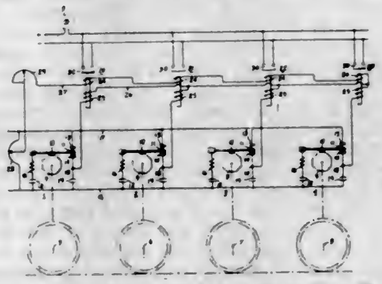
2,592,341
MOLDING MACHINE
Robert André Ronceray, Thiais, France
Application September 10, 1948, Serial No. 48,605
In France January 20, 1948
4 Claims. (Cl. 22—29)

1. A moulding machine of the jolt-squeeze type comprising in combination a fixed stand provided with an adjustable upper plate, a movable lower plate supporting a pattern plate and a mould box, a cylinder mounted on said stand, a first piston movable in said cylinder, a second piston movable within said first piston and attached to said movable plate, a vibrator mounted within said second piston adjacent to said movable plate, means mounted on said stand for guiding the movement of said movable plate, said guide means including a sleeve and a guide rod having longitudinal slots in certain portions traveling in said sleeve, a movable supporting frame for said mould box, synchronizing means for regulating the motion of said frame, means for coupling said frame to said movable plate during their upward strokes, braking means for stopping the motion of said frame during the downward strokes of said movable plate, an exhaust pipe connected to said cylinder below said front piston for the escape of fluid therebeneath, a distributing chamber into which control fluid under pressure is admitted, said chamber having a plurality of openings formed in the top thereof, pipes connecting said chamber openings to the various members to be controlled and with an exhaust port, a rotor arranged within said chamber adjacent said top, said rotor being provided with an opening adapted to be successively brought opposite to each of said top openings, a radial slot formed in the surface of said rotor



adjacent to said top, said slot being adapted to connect that opening corresponding to the exhaust to at least one of the remaining openings, a control device adapted to drive said rotor in a discontinuous rotative motion, a shaft having said rotor keyed on one end thereof and the other end of which is external to said chamber, a plate connected to said external end of said shaft and provided with protruding nipples, a movable finger cooperating with each of said nipples for rotating said plate and said shaft, and means for controlling the escape of fluid from said cylinder exhaust pipe through said distributing chamber and consequently the initial downward stroke of said lower plate.

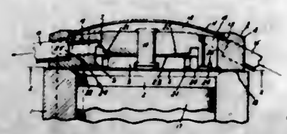
2,592,342
WHEEL SLIP PROTECTIVE DEVICE
William D. Ryckman, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 18, 1951, Serial No. 237,374
17 Claims. (Cl. 177—311)



1. A wheel slip detection circuit for a rail vehicle having a plurality of axles comprising means for producing a signal proportional to the speed of each of said axles, a load circuit for said signal producing means including means for respectively balancing the current in each of said signal producing means against the total current in

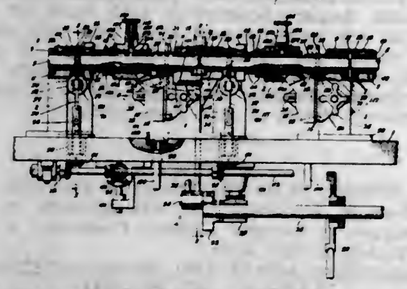
said load circuit whereby a difference in speed of any one of said axles with respect to the other of said axles produces a current unbalance in said current balancing means associated therewith, and means respectively responsive to a current unbalance in said current balancing means for indicating wheel slip.

2,592,343
COMPRESSOR HEAD ASSEMBLY
Owen H. Scheldorf, North East, Pa., assignor to General Electric Company, a corporation of New York
Application March 15, 1950, Serial No. 149,745
12 Claims. (Cl. 230—228)



1. In a compressor having a cylindrical bore, a member for closing said bore, a plurality of annularly disposed intake ports extending through said member, a flat resilient intake valve arranged to cover said ports, said member having an annular recess therein intersecting said ports, said recess being formed in the face of said member adjacent said valve, and a ring-shaped element secured within said recess for bracing said valve.

2,592,344
APPARATUS FOR FINISHING TOOTHED CUTTING BLADES
Sava I. Sherr, New York, N. Y., assignor to Samuel Briskman, New York, N. Y.
Application January 30, 1948, Serial No. 5,444
3 Claims. (Cl. 51—26)

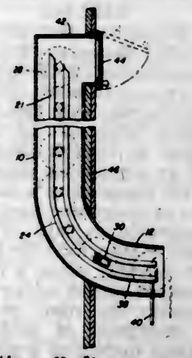


1. Apparatus of the kind described, comprising a standard having a bearing with a shaft therein, and means for holding a cutter blade with teeth in fixed radial position with respect to said shaft, a hub carrying an arm on the shaft, gearing to oscillate the shaft, said arm having means for holding a second blade with teeth adjacent the first blade with the ends of said blades substantially in alinement, and the teeth on one blade in position to make rubbing contact with the teeth on the other as the shaft oscillates, a sleeve in said hub keyed to the shaft and slidable thereon, means for connecting the sleeve to the hub, resilient means engaging the standard and one end of the sleeve tending to push the sleeve away from the standard, a threaded bushing encircling said shaft and means mounting the bushing on the standard in fixed position adjacent the opposite end of the sleeve, a head having threaded engagement with the bushing, a gear secured to the head, a second shaft having a gear engaging the gear on the head and turn the head to move the sleeve, the hub and the arm to feed the blades towards each other during oscillation of the first shaft, means adjacent the standard mounting the second shaft to move laterally to effect disengagement of said gears, a magnet having an armature connected to said second shaft and said magnet having electrical connections to energize the magnet and attract the armature electrical connections to swing the last-named shaft to disengage the gears when the working of the blades is finished.

2,592,345
METHOD FOR PRODUCING LIGHTWEIGHT CONCRETE
August Schnell and Alexander Bosshard, Zurich, Switzerland, assignors to Durisol Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 25, 1947, Serial No. 770,550
7 Claims. (Cl. 106—93)

1. The method of producing light-weight concrete from reduced organic fibrous material and a calcium-containing cement which comprises at least partially impregnating the particles of the fibrous material with an aqueous solution of a heavy-metal sulfate, mixing the impregnated fibrous material with a basic aqueous medium which will react with the sulfate to form a gel, permitting the basic aqueous medium to remain in contact with the impregnated fibrous material until it has reacted with the sulfate taken up by the fibrous material and forms a viscous gel on the surface of the particles of fibrous material, then, while the gel is still in a viscous state, mixing the fibrous material with a calcium-containing cement, the amount of the cement being between about 130 to 140%, by weight, of the amount of fibrous material, and the total amount of water added to the mixture being between 50 and 70% by weight of the cement, whereby the cement adheres to the viscous gel coating of the fibrous material and calcium compounds of the cement penetrate the fibrous material, molding the mixture, and permitting the molded product to harden to a rigid porous structure.

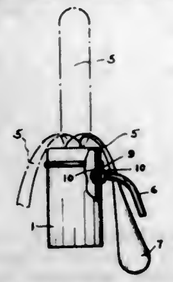
2,592,346
AUTOMATIC ROLL DISPENSER
Henry C. Scogin, King City, Calif.
Application September 29, 1947, Serial No. 776,831
5 Claims. (Cl. 242—55.3)



1. An automatic roll dispenser comprising an upright housing having a curved extension at one end to provide a chamber open at both ends, a pair of opposing guides fixedly secured to the inner walls of said housing, a plurality of rollers

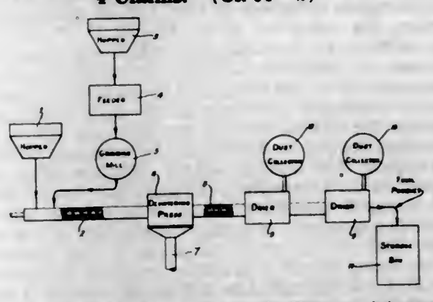
slidably mounted in said guides, spring means carried by said guides, means slidably carried by said housing and connected to the spring means for releasing said spring means to permit the lower roller to enter said chamber, resilient stops mounted within the chamber to block the passage of rollers from the chamber, and a hand grip slidably carried by the extension and attached to the resilient stops to permit movement of the stops from the guides.

2,592,347
INFLATABLE TOY
Charles E. Shute, Longmeadow, Mass.
Application September 2, 1949, Serial No. 113,732
9 Claims. (Cl. 46—90)



1. In a device of the character described, a housing having a finger receiving portion, an air passage extending therefrom and adapted to be substantially closed when the finger of the user is positioned in said finger receiving portion, an inflatable member connected to said housing and communicating with said air passage, and means externally of said housing and communicating with said inflatable member for forcing air into said inflatable member to inflate the same when the finger of the user is in position to substantially close said air passage in said housing.

2,592,348
PROCESS OF PRODUCING ANIMAL FEEDS
Joseph A. Siefker, St. Louis, and Jerome F. Brasch, Clayton, Mo., assignors to Anheuser-Busch, Inc., St. Louis, Mo., a corporation of Missouri
Application March 20, 1950, Serial No. 150,714
4 Claims. (Cl. 99—2)



1. A process comprising grinding moist spent hops and mixing said hops with a stock feed, said grinding reducing the particle size of said hops so that after drying the average particle of said hops has a ratio of weight to surface area substantially the same as the ratio of weight to surface area for the average particle of said stock feed, pressing said mixture to reduce the water content, and then drying said mixture.

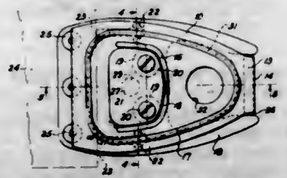
2,592,349
PROCESS FOR PREPARING AND REDUCING MONONITRATED POLYSTYRENE
Anders Skogseid, Oslo, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway
No Drawing. Application July 23, 1947, Serial No. 763,145. In Norway September 2, 1943
2 Claims. (Cl. 260—93.5)

1. A process for the preparation of a high molecular weight polymeric amine ion exchange resin comprising nitrating high molecular weight polystyrene at a temperature below 10° C. with nitric acid of a concentration above 80% by weight, to introduce thereby one nitro group into each benzene ring of the high molecular weight polystyrene and thereafter reducing the mononitro high molecular weight polystyrene formed by reaction with an alkali sulphide reducing agent selected from the class consisting of sodium sulphide and sodium disulphide, said reducing agent dissolved in water and said reaction conducted at a temperature between about 100° C. and about 150° C. in an autoclave.

2,592,350
PREPARATION OF POLYMERIC ORGANIC CATION RESIN EXCHANGERS CONTAINING IMINO GROUPS
Anders Skogseid, Heroya, Norway, assignor to Norsk Hydro-Elektrisk Kvaelstofaktieselskab, Oslo, Norway, a firm of Norway
No Drawing. Application March 20, 1951, Serial No. 216,662. In Norway September 2, 1943
5 Claims. (Cl. 260—89.7)

1. A process for the preparation of synthetic resin cation exchangers comprising the steps of condensing polyamino styrene with a nitrated halogen benzene and thereafter nitrating the benzenoid ring structure of the condensation product with an excess of nitric acid.

2,592,351
SPRING CLIP
Robert F. Smith, Jr., and Paul D. Dale, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 19, 1948, Serial No. 27,866
8 Claims. (Cl. 24—252)

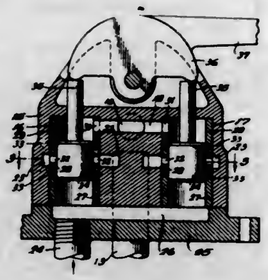


1. A film clip comprising a base, a resilient member having teeth offset from one end thereof and manually-operable means at the other end, a U-shaped slot intermediate the ends of said member defining a substantially flat integral tongue, and means securing the free end of said tongue to the base whereby the teeth of said member are normally held in engagement with the base by the resilience of the tongue.

2,592,352
VALVE
William H. Speck, Chicago, Ill., assignor to Lindberg Engineering Company, Chicago, Ill., a corporation of Illinois
Application May 2, 1946, Serial No. 666,710
3 Claims. (Cl. 251—76)

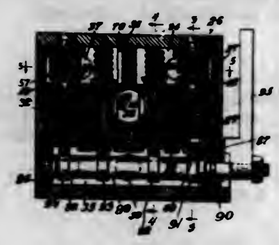
2. A valve comprising a body formed with a

bore open at one end and closed at the other, three aligned sleeves fitting into the bore, the center sleeve having a port opening therein, annular packing rings between the sleeves exposed at the inner surface thereof, a piston defining an imperforate cylinder and slidable in the bore and



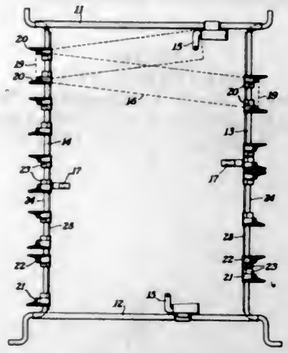
having a reduced piston rod extending through the closed end of the bore, and a cover secured to the body over the open end of the bore and engaging the adjacent sleeve to hold the sleeves and packings in place in the bore the piston having a close sliding fit in the sleeves and with the exposed surfaces of the packings.

2,592,353
MULTIPLE CONTROL VALVE
Robert Stevenson, Barrington, R. I., assignor to Merit Engineering, Inc., a corporation of Rhode Island
Application June 21, 1944, Serial No. 541,448
5 Claims. (Cl. 277—20)



1. In a valve, a body having a pair of spaced chambers, an inlet port, separate conduits opening in each of said chambers for connecting said inlet port to each of said chambers, a valve for controlling each conduit, an exhaust port, a second set of separate conduits opening in each of said chambers for connecting said exhaust port to each of said chambers, a second valve having a reduced annular area exposed to the liquid pressure in said chambers for controlling each of said second set of conduits and having a passage therethrough providing a conduit from said chamber to said exhaust port when said second valve is in the closed position, resilient means for each valve urging said valve to closed position, and manual means to effect opening of the inlet port to one chamber and closure of the exhaust port therefrom and simultaneously effecting an opposite movement of the inlet and exhaust valves of the conduits of the other chamber and valve means for controlling said passages operable by an excess pressure of the liquid in said chambers when said second valve is in the closed position.

2,592,354
FILM DEVELOPING RACK
Joseph Stoiber, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 18, 1947, Serial No. 774,777
12 Claims. (Cl. 242—77)



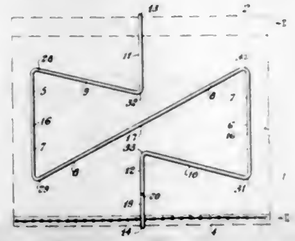
1. In a film-developing rack, the combination with a frame, of a plurality of separately adjustable film-supporting members spaced laterally and longitudinally on said frame and over which a film strip is adapted to be threaded, each of said members comprising parts which support the strip only at a longitudinal point intermediate its ends and which are relatively adjustable on said frames to vary the spacing between the parts to accommodate film strips of different widths.

2,592,355
PROCESS FOR MANUFACTURING MACROMOLECULAR CELLULOSE FIBER
Shozo Tachikawa, Sanjo, Higashiyama-Ku, Kyoto, Japan
No Drawing. Application February 20, 1950, Serial No. 145,307. In Japan November 21, 1949
3 Claims. (Cl. 18—54)

1. In the manufacture of macromolecular cellulose fiber with D. P. above 500, the process consisting in steeping cellulose-containing materials having macromolecular cellulose of not less than 800 D. P. in an alkali bath the concentration of which varies inversely as the D. P. of the cellulose within the range of 17% for 800 D. P. to 13% for 1400 D. P., pressing the alkali cellulose thus formed so that the ratio of the press weight of the material to the weight of the original cellulose varies inversely with the D. P. of the cellulose within the ratios of substantially 2.8 times the cellulose weight to 2.4 times the cellulose weight, shredding the unaged alkali cellulose thus obtained in an atmosphere of inert gas, xanthating the unaged shredded alkali cellulose by adding thereto a quantity of carbon bisulphide of not less than 45% of the alkali cellulose in the presence of an inert gas at a pressure varying directly as the D. P. of the cellulose within the range of substantially 2 atmospheres for 800 D. P. to over 12 atmospheres for 1400 D. P., and dissolving the sodium cellulose xanthogenate thus obtained in water.

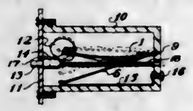
3. The process as defined in claim 1 together with the additional step of regenerating the cellulose by spinning the dissolved sodium cellulose xanthogenate in a dilute acid bath having a strength not in excess of 3%.

2,592,356
RESILIENT HOLDING DEVICE
Bernard E. Thurness, Shaker Heights, Ohio
Application June 27, 1947, Serial No. 757,540
3 Claims. (Cl. 24—261)



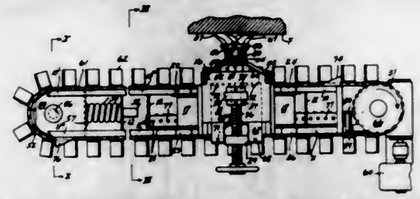
1. An elongated clip of the class described, comprising a single length of resilient wire having its end portions bent upon themselves and lying in a plane transversely of the clip to receive and grip a backing member inserted therebetween, the portion of the wire between the said transverse gripping portions being bent to form open loops extending on opposite sides of said transverse portions in the plane of the clip, said loops each formed to provide a flat side disposed substantially parallel to said end portions, said loops having a common connecting member, said last named member extending from the flat side of one loop to the flat side of the oppositely disposed loop, said connecting member being bowed upwardly with respect to the plane of the clip at a point substantially midway of its ends to thereby exert a tension on said loops when said clip is gripping an object on its backing member.

2,592,357
ELECTRIC SNAP SWITCH
Foster J. Trainor, Holly Hill, Fla.
Application January 3, 1949, Serial No. 69,002
1 Claim. (Cl. 200—67)



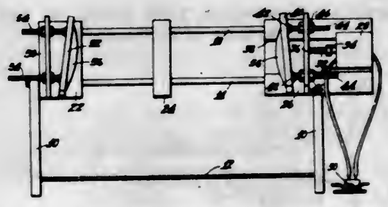
In a snap action switch device, a snap action and contact element comprising an elongated, flat reed portion having an aperture centrally located therein and being embossed to a convex condition in the vicinity of said aperture, one end of said reed portion being integral with a co-linearly extending transversely elongated base portion, a contact arm affixed to the base portion adjacent the reed portion and inclined at an acute angle thereto, a dielectric housing having a groove in the bottom thereof for pivotally supporting the free end of the reed base portion, a cam member having a bifurcated portion for straddling the free end of the reed, a push-button supported for motion transverse to the axis of said cam and having a shoulder adapted to abut said cam member, a contact on the end of the contact arm and a fixed contact supported on a lateral wall of the housing, said movable contact being normally urged against the fixed contact by the convexity of said reed, and being deflected away from said fixed contact by rotation of the bifurcated portion of the cam due to inward motion of the push-button.

2,592,358
COAL MINING MACHINE
Temple W. Tutwiler II, Birmingham, Ala.
Application July 5, 1947, Serial No. 759,172
10 Claims. (Cl. 262—31)



3. In a mining machine for removing material from the face of a mine, an elongated frame, a conveyor chain having outwardly projecting flights thereon mounted to move in one direction along one side thereof generally parallel to the mine face, a cutter head mounted to reciprocate on the frame above the conveyor chain and parallel therewith, said cutter head carrying cutter elements projecting over the conveyor flights to engage the mine face, and ground engaging drive means mounted on the frame and disposed to move the entire machine laterally in the direction of projection of the cutter elements toward the mine face.

2,592,359
PNEUMATIC FURNITURE ASSEMBLING PRESS
Frederick C. Valiton, South Ashburnham, and William H. Hobby, Gardner, Mass.
Application October 13, 1947, Serial No. 779,521
2 Claims. (Cl. 144—288)

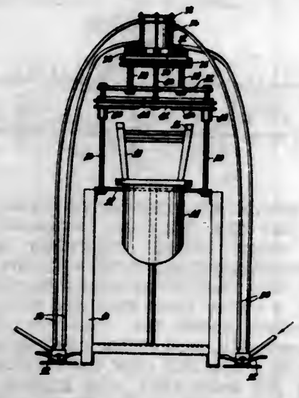


1. A furniture assembly press comprising an inclined bed, a power cylinder thereon, a piston rod for the cylinder, an abutment plate on the rod movable parallel to the bed, a head, means on the plate at each side of the piston rod adjustably securing the head to the plate for adjusted angular disposition with relation thereto, said head being movable parallel to the plane of the bed, and a second head in opposition to the first-named head.

2,592,360
PNEUMATIC FURNITURE ASSEMBLING PRESS
Frederick C. Valiton, South Ashburnham, and William H. Hobby, Gardner, Mass.
Application October 13, 1947, Serial No. 779,522
2 Claims. (Cl. 144—289)

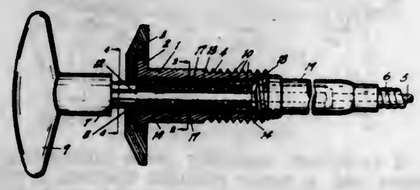
1. A press of the class described comprising a frame for holding a work piece, upright standards on the frame, a platform on the standards, a pressure cylinder, adjustable means supporting the cylinder on and above the platform for varying the distance from the cylinder to the platform, a vertically operable piston rod extending downwardly from the cylinder and terminating

below the platform, and a work piece engageable header secured to the piston rod adjacent the end of the latter for pressing work pieces of different lengths located between the standards,



said means comprising a pair of spaced parallel screw studs arranged on the platform in upright condition, a nut for each stud, the cylinder being supported on the nuts, and means to rotate the nuts simultaneously.

2,592,361
REMOTE CONTROL DEVICE FOR HEATERS, VALVES, AND OTHER REMOTE CONTROLLED PARTS
Herman Weber, Kalamazoo, Mich., assignor to Shakespeare Products Company, Kalamazoo, Mich.
Application October 26, 1950, Serial No. 192,281
2 Claims. (Cl. 74—503)



1. In a control device the combination of an elongated tubular support, an adjusting rod longitudinally slidable within said support to project therefrom and having a grip on its projecting end, said adjusting rod having a longitudinal groove therein and said support having a lug coacting with said groove to prevent rotative movement of the adjusting rod with the support, said adjusting rod having a series of peripheral grooves of curved section providing a series of closely spaced keepers, an elongated transversely curved springable detent member unconnectedly disposed in said support to receive said adjusting rod, said member having its longitudinal mid portion offset radially inwardly and slotted longitudinally to form longitudinally extending springable keeper engaging detents provided with curved keeper engaging lugs, said lugs being longitudinally spaced relative to each other so that they alternately engage a keeper as the adjusting rod is longitudinally adjusted, and means on each end of said support projecting partially over the ends thereof to retain said detent member within said support.

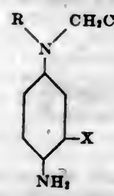
2,592,362
HEM GUIDE CLASP
Wendy Weeks, Great Neck, N. Y.
Application June 27, 1947, Serial No. 757,604
1 Claim. (Cl. 24—81)



A device of the character described comprising a face portion, rear portions respectively integrally formed on the ends of the face portion and extending toward each other, said rear portions respectively being cut away along opposing side edges and providing tapered ends, said tapered ends overlapping one another in a single plane and having opposingly outwardly flared finger grips, the rear portions being substantially straight and extending parallel to the face portion, said outwardly flared finger grips being laterally aligned with each other.

2,592,363
P-PHENYLENEDIAMINE DEVELOPER CONTAINING N-ALKYLACETAMIDO ETHYL SUBSTITUENT
Arnold Weissberger, Dudley B. Glass, and Paul W. Vittum, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 6, 1948, Serial No. 13,525
4 Claims. (Cl. 95—88)

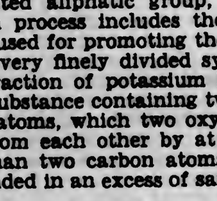
1. A silver halide developing solution for producing a colored photographic image comprising a developing agent having the general formula:



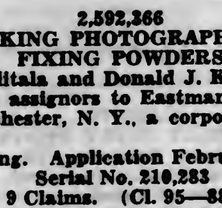
where R is a lower alkyl group, R' is a lower alkyl group and X is selected from the class consisting of hydrogen, lower alkyl and lower alkoxy groups, and a compound which couples with the oxidation product of said developing agent to form a colored image upon photographic development.

2,592,364
p-PHENYLENEDIAMINE DEVELOPER CONTAINING ALKYLACYLAMIDOETHYL OR ALKYLACYLAMIDOETHOXY RING SUBSTITUENTS
Arnold Weissberger, Dudley B. Glass, and Paul W. Vittum, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 6, 1948, Serial No. 13,526
6 Claims. (Cl. 95—88)

1. A photographic silver halide developing solution comprising as the developing agent a compound of the group consisting of



and



where R and R' are lower alkyl groups, X is selected from the class consisting of —SO_2R'' and —COR'' groups, and R'' is a lower alkyl group, and a compound which couples with the oxidation product of the developing agent to form a colored image.

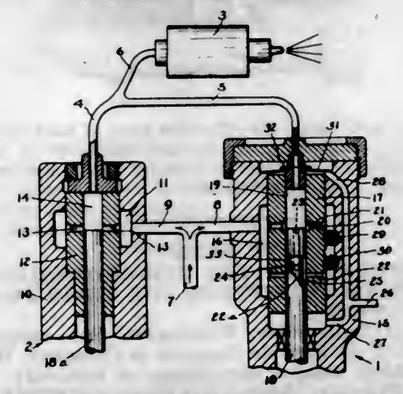
2,592,365
CONDENSATION PROCESS
Charles Weizmann, Rehovoth, Israel, assignor to Polymerisable Products Limited, London County, England, a British company
No Drawing. Application January 12, 1949, Serial No. 70,590. In Great Britain March 2, 1944
11 Claims. (Cl. 260—868)

2. A process of carrying out a condensation reaction between (*a*) a hydrocarbon substance selected from the group consisting of cyclopentadiene, indene and fluorene and benzologs of the latter on the one hand, and (*b*) a substance which is a member of the group consisting of aldehydes and ketones which substance contains no unsaturated aliphatic group, on the other hand, which process includes the feature that the reagent used for promoting the condensation is the solid very finely divided system obtained by the interaction of potassium hydroxide and an organic substance containing two ether forming oxygen atoms, which two oxygen atoms are separated from each other by at least one and not more than two carbon atoms, such system being suspended in an excess of said organic substance.

2,592,366
NONCAKING PHOTOGRAPHIC ACID FIXING POWDERS
Edwin S. Wiitala and Donald J. Kridel, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 9, 1951, Serial No. 210,283
9 Claims. (Cl. 95—88)

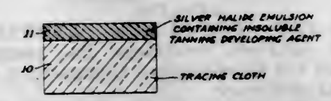
1. A non-caking acid fixing powder composition containing sodium thiosulfate, an alkali sulfite, a hardening agent, boric anhydride, and a salt of a solid organic acid selected from the group consisting of acetic, citric and tartaric acids.

2,592,367
FUEL INJECTION SYSTEM
George B. Wood, Jr., Springfield, Mass., assignor to American Bosch Corporation, Springfield, Mass., a corporation of New York
Application November 13, 1946, Serial No. 709,603
6 Claims. (Cl. 103—41)



1. In a fuel injection system, a pair of fuel injection pumps, one of said pumps being a master pump and the other of said pumps being a slave pump and controlled through control of said master pump, a fuel delivery line common to both of said pumps, said pumps each including a bore and a plunger adapted to be reciprocated in said bore, the plunger of said master pump having a spill port communicating with said common delivery line whereby said spill port will bypass fuel pumped by both pumps.

2,592,368
GELATINE SILVER HALIDE EMULSION LAYER CONTAINING A DIHYDROXY DIPHENYL TANNING DEVELOPING AGENT
Edward C. Yackel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 4, 1947, Serial No. 783,912
4 Claims. (Cl. 95—6)

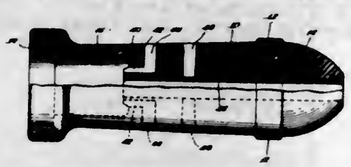


1. A photographic emulsion layer comprising a substantially unhardened gelatin vehicle and dispersed in said vehicle a silver halide and a tanning developing agent of the class consisting of 2,3-dihydroxy diphenyl, 2,5-dihydroxy diphenyl, and 3,4-dihydroxy diphenyl.

2,592,369
POWDER INHALER
Howard H. Young, Waukegan, and Douglas A. Loper, Hubbard Woods, Ill., assignors to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois
Application October 15, 1948, Serial No. 54,792
6 Claims. (Cl. 128—206)

3. An inhaler comprising, in combination: a body having a longitudinal bore; one end of said body being shaped for contact with a natural body orifice; a pocket in the opposite end of said body communicating with said longitudinal bore; an annular manifold in the bottom of said pocket

encircling and spaced from said bore; inlet means for admitting atmospheric air to said manifold; means for retaining a charge of powdered medicament in said pocket exposed to said manifold



and to said bore; the effective area of said manifold for delivering air in the direction of said charge being materially greater than the cross sectional area of said bore.

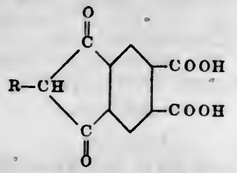
2,592,370

COMPOUNDS OF THE QUINOPHTHALONE SERIES AND METHOD FOR THEIR PRODUCTION

Frithjof Zwilgmeyer, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 18, 1950, Serial No. 145,098
11 Claims. (Cl. 260—287)

1. A compound of the group consisting of the free acid form, anhydrides and salts of the quinophthalone-dicarboxylic acids represented by the general formula



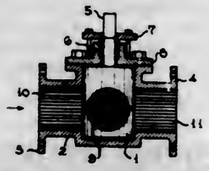
wherein R represents a 2-quinolyl radical selected from the group consisting of 2-quinolyl, 3-hydroxy-2-quinolyl and derivatives of these obtained by substitution in the Bz ring by substituents selected from the group consisting of halogen, methyl, phenyl and benzo radicals.

2,592,371

VALVE FOR COMPRESSED ACETYLENE

Archie M. Ackroyd, New Hope, Pa., assignor to Standard Oil Development Company, a corporation of Delaware

Application November 14, 1946, Serial No. 709,673
2 Claims. (Cl. 251—104)



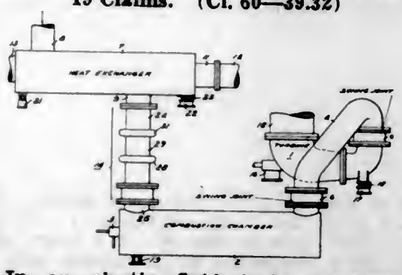
1. A valve structure for controlling flow of a concentrated pressure-sensitive gas under pressure, comprising a valve body, coaxial opposed inlet and outlet ports in said body, a valve member between said ports having a corresponding port laterally therethrough, said member being movable in the valve body to register its port with those in said body, and separate partition elements positioned in each of said ports, each of said partition elements comprising a plurality of thin plates arranged laterally and longitudinally of each of the ports in intersecting manner to form a plurality of co-extensive, individual, walled passageways therethrough, and alignable through said valve body by movement of the valve member, whereby an enlarged contact surface is provided in each of said ports without substantial reduction in the cross-sectional port area.

2,592,372

GAS TURBINE SYSTEM WITH MEANS PROVIDING FOR EXPANSION AND CONTRACTION

Hans A. Altorfer, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application November 2, 1944, Serial No. 561,609
19 Claims. (Cl. 60—39.32)



1. In an elastic fluid turbine system, an elongated, regenerative heater having at least one part thereof stationarily mounted on a fixed support, an elongated, motive fluid generator spaced laterally from said heater, means including a pivot support mounting said generator for movement both longitudinally and angularly relative to its support and relative to said heater, and an approximately straight fluid conducting means extending between its ends transversely between and interconnecting said generator with another part of said heater spaced from said one part thereof, said fluid conducting means including a plurality of conduit sections and at least two joint structures connecting said sections and rendering a first pair of joint sections relatively movable angularly about a longitudinally extending axis and rendering the axis of one of a second pair of joined sections displaceable at an angle relative to the axis of the other section of said second pair.

14. In a swing-joint construction including a pair of telescopingly arranged conduit sections, means uniting said sections for relative angular and longitudinal movement comprising a first group of circumferentially spaced pivots carried by diametrically opposed, internal portions of one section, an axially spaced second group of similarly arranged pivots carried by diametrically opposed internal portions of the other section, and at least one laterally and torsionably flexible, flat member interconnecting said pivots and disposed in approximately parallel relation with respect to the longitudinal axis of said sections.

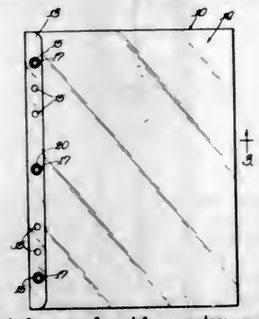
2,592,373

TRANSPARENT SHEET PROTECTOR

Gilbert W. Amberg, Kankakee, Ill., assignor to Amberg File and Index Company, Kankakee, Ill., a corporation of Illinois

Application July 20, 1949, Serial No. 105,776
1 Claim. (Cl. 129—20)

For use in a looseleaf style of notebook binder, a transparent display protective unit comprising, a substantially rectangular first leaf element, a second leaf element superposed coextensively with said first leaf element and integrally joined therewith along one marginal edge, a lip element, overlapping a second marginal edge of said second leaf element opposite said one marginal edge thereof, and integrally joined with said first leaf element; a plurality of spaced binder receiving apertures formed in said second leaf element beneath said lip, a plurality of open-centered, metal rivets, one mounted in each of said apertures and having opposite head ends thereof turned radially outward to meet opposite faces of said second leaf element for reinforcing the periphery of said apertures therein, said rivet head ends protruding outwardly from said opposite faces of said second leaf in an amount substantially not in excess of the thickness of the adjacent portions of said lip and second leaf elements, and enlarged relief apertures formed in both said lip and first leaf element registeringly with the protruding heads of said rivets, each for receiving one of said protruding rivet heads therein, whereby the thickness of that marginal edge of said unit in which said rivets are mounted does not exceed substantially the combined thicknesses of both said leaf elements and said lip element.

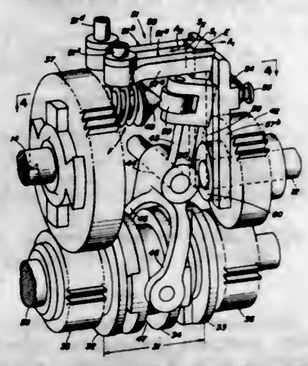


2,592,374

VALVE ACTUATING MECHANISM

Russell C. Ball, Wynnewood, and Harold O. Kron, Philadelphia, Pa., assignors to Philadelphia Gear Works, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application July 30, 1951, Serial No. 239,336
11 Claims. (Cl. 74—625)



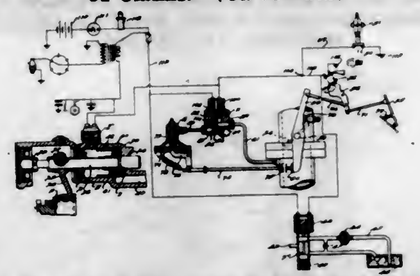
1. Valve actuating mechanism for a valve having a valve stem rotatably raisable and lowerable, a worm-wheel for rotating the stem, a worm on a worm-shaft for rotating the worm-wheel, motor means for power driving the worm including a shaft, hand wheel means for manually driving the worm including a shaft, reciprocable clutch means for sequentially drivingly connecting the worm-shaft with either the motor means or the hand wheel means; and interlocking means effective between the motor means and the hand wheel means including pressure means activated only by initial rotation of the hand wheel to urge the clutch means into driving connection with the hand wheel shaft, and secondary pressure means activated only by rotation of the motor means to urge the clutch means into driving connection with the motor shaft.

2,592,375

THROTTLE CONTROL

Thomas M. Ball, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application January 26, 1946, Serial No. 643,819
31 Claims. (Cl. 74—472)



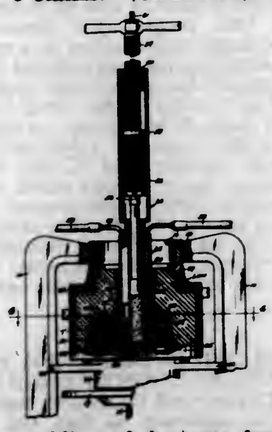
1. In an internal combustion engine having a throttle adapted for opening and closing movements, the combination of a device sensitive to change in manifold pressure adapted to open the throttle when said engine begins to stall and to temporarily hold said throttle open to facilitate engine recovery, and automatic means responsive to predetermined vehicle operating conditions to selectively render said device operative and inoperative.

2,592,376

APPARATUS FOR MAKING DENTURES

Charles S. Ballard, Seattle, Wash.

Application February 9, 1948, Serial No. 7,122
8 Claims. (Cl. 18—5.7)



1. In the molding of dentures from thermoplastic material, and in combination with a mold incasement providing a sprue opening and having an upstanding boss presenting a threaded center-bore placed co-axial to the sprue opening and giving access to the latter, the sprue opening

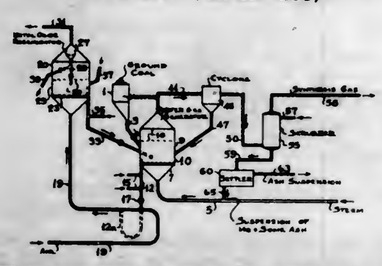
having a diameter smaller than that of the center-bore and being faced with a bevelled seat, a jacketed cylinder threaded to engage the threads of the boss and providing a tapered nose prolonged below the threads and arranged to bottom upon the seat, the bore of said cylinder being adapted to carry a charge of denture material, a spring-loaded ramming piston working in the cylinder, and means for circulating cooling water under pressure into and from the jacket of the cylinder.

2,592,377

MANUFACTURE OF GAS MIXTURES CONTAINING CARBON MONOXIDE AND HYDROGEN

Frank T. Barr, Summit, and Homer Z. Martin, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application August 8, 1946, Serial No. 689,156
14 Claims. (Cl. 48—206)



1. The process of producing carbon monoxide and hydrogen which comprises passing steam upwardly through a dense fluidized bed of finely divided carbonaceous solids of fluidizable particle size maintained in a gasification zone at gasification conditions of temperature and pressure in the presence of fluidizable particles of a metal oxide which oxidizes carbonaceous materials at the gasification conditions and which has a lower buoyancy in gas than that of the solid gasification residue of said carbonaceous solids, said metal oxide being added in amounts and at a temperature sufficient to supply at least a substantial portion of the heat required to maintain said gasification temperature, withdrawing a gas containing carbon monoxide and hydrogen upwardly from said bed, passing the steam upwardly through the dense fluidized bed at a velocity such that metal oxide particles of reduced oxygen content are concentrated in the lower portion thereof to a relatively greater extent than in the upper portions of said fluidized bed, withdrawing a stream of solids from the lower portion of the fluidized bed, passing said stream to a dense fluidized bed of finely divided metal oxide, passing air upwardly through said second named bed at conditions adapted to reoxidize said withdrawn metal oxide by an exothermic reoxidation reaction, and returning reoxidized metal oxide from said second named bed to said first named bed.

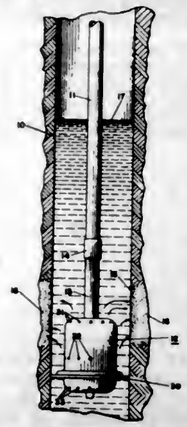
2,592,378

APPARATUS FOR DETERMINING THE ZONE OF LOST CIRCULATION OF DRILLING MUD

Preston E. Chaney and William E. Barnes, Beaumont, Tex., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application October 30, 1948, Serial No. 57,458
3 Claims. (Cl. 73—155)

3. A device for the sonic detection of zones of lost circulation of drilling mud in well boreholes comprising a hollow suspending member adapted to transmit liquid under pressure; a housing divided into upper, intermediate and lower portions with peripherally spaced apertures in each portion to permit the flow of liquid therethrough, said housing being positioned on the lower end of said suspending member; a tubular passage within said housing in prolongation of said suspending member, having apertures therein to communicate with the upper portion of said housing, and constructed to proportionally direct the liquid under pressure



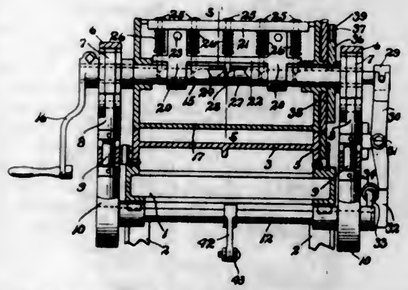
partly through said apertures and the remainder downwardly through said housing; vibrating means in slidable engagement with said tubular passage adapted to be lifted into operating position adjacent said apertures in said tubular passage by the pressure of liquid in the lower portion of said housing; and liquid pressure confining means exterior of said housing, positioned between the lower and intermediate apertures thereof to direct the liquid pressure into the lower section of said housing.

2,592,379

PROOF PRESS

Freeman Barney, Spring Lake, Mich., assignor to The Challenge Machinery Company, Grand Haven, Mich., a corporation of Michigan

Application November 8, 1947, Serial No 784,865
4 Claims. (Cl. 101—409)



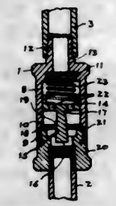
3. In a structure as described, a support, a hollow cylinder mounted thereon for rotation about its longitudinal axis, a horizontal printing form carriage mounted on said support for longitudinal movement under the cylinder, clamping means on the cylinder for releasably securing an edge portion of a sheet of paper to the cylinder when said clamping means is at an upper position on said cylinder, gearing connections between the cylinder and carriage for moving the carriage longitudinally under the cylinder, and manually operable means for simultaneously bodily lifting the cylinder and for operating said clamping means for release of a paper sheet.

2,592,380

CRANKCASE VENTILATOR VALVE

Ronald Carey Beckett, Galt, Ontario, Canada

Application December 11, 1947, Serial No. 791,061
4 Claims. (Cl. 137—153)



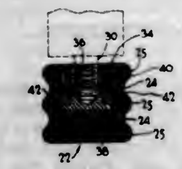
1. A crankcase ventilator valve or the like comprising a cylinder having a central bore and formed with a threaded tubular extension extending from one end and with an enlarged bore at the other end defining an internal annular shoulder, a cup-shaped piston slidably mounted in the bore of said cylinder and having an axially extending stem of circular cross section projecting outwardly from the end wall thereof and tapering uniformly inwardly from a maximum diameter at the outer end to a minimum diameter at the piston, said piston having ports extending through the end wall thereof, a disc arranged in said cylinder and abutting said annular shoulder, said disc being formed with a central orifice of a size greater than the maximum diameter of said stem, said stem being arranged to project through said orifice, a nipple threaded into the said enlarged cylinder bore and holding said disc against said shoulder, and a compression spring seated within the piston and engaging the end of the cylinder remote from said disc for urging the piston against said disc with its stem projecting through said central orifice, said piston having its ports spaced outwardly of said central orifice to close said ports and central orifice upon contacting said disc and being operable under varying pressures applied to said cylinder through said tubular extension to operate said tapered stem through said disc orifice to provide a valving action to progressively decrease the effective size of said orifice to a minimum towards the outer end of said stem.

2,592,381

HYPODERMIC SYRINGE

Theodore A. Blackman, New York, N. Y., assignor to Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J., a corporation of New York

Application October 13, 1949, Serial No. 121,119
2 Claims. (Cl. 128—218)



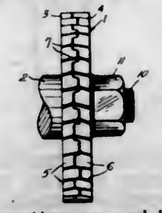
1. For use in a hypodermic syringe of the type wherein a plunger has a plunger shaft detachably secured thereto: a plunger of elastomeric material having a metallic insert imbedded therein, said insert including a pair of nested sleeves, the inner sleeve being internally formed to detachably couple with the tip of the plunger shaft and the outer sleeve being spaced from the inner sleeve to provide a tubular well, said outer sleeve having a plurality of through-holes extending transversely of said sleeve and running outwardly from the well, said holes being below the top edge of said sleeve, the top edge of the outer sleeve being lower than the top edge of the inner sleeve and the top edge of the inner sleeve being adjacent the top of the plunger, the material of the plunger filling the tubular well and said holes and covering the upper edge of the outer sleeve.

2,592,382

ADJUSTABLE MILLING CUTTER

Phillipe J. Blais, Claremont, N. H.

Application March 6, 1947, Serial No. 732,858
14 Claims. (Cl. 29—103)



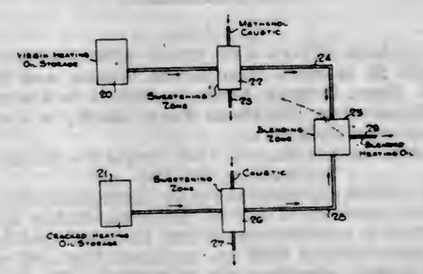
4. A milling cutter comprising a pair of coacting cutter wheels mounted on a machine spindle with their hubs held in spaced relation axially of the spindle by spacing means, said cutters having parallel radial flanges projecting from their hubs and carrying circular rows of cutting teeth at their peripheries, said cutting teeth arranged in interlocking relation, and separate adjusting screws carried by the flange of each cutter wheel at spaced points thereabout spaced outwardly from the hubs and engaging the inner face of the flange of the other wheel near said interlocking teeth for rigidly holding the latter in parallel relation, thereby to prevent inward deflection of the portions of the wheel flanges which support the cutting teeth.

2,592,383

PROCESS FOR PREPARING HEATING OIL

Leo J. Blatz, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

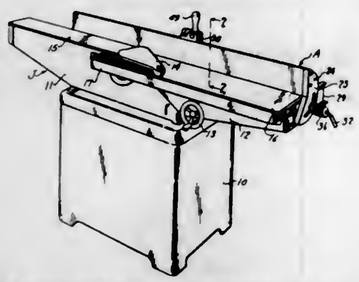
Application June 28, 1949, Serial No. 101,860
9 Claims. (Cl. 196—32)



1. A process for preparing heating oil blends consisting of the steps of extractively sweetening a virgin heating oil boiling within the range of about 400° F. to 650° F. whereby mercaptans present in the said oil are removed, caustic wash-

ing a cracked heating oil boiling within the range of about 400° F. to 650° F. and thereafter blending the extractively sweetened virgin oil with the caustic washed cracked heating oil whereby a compatible blend of virgin heating oil and cracked heating oil is obtained.

2,592,384
FENCE FOR JOINTERS
William B. Boice, Toledo, Ohio, assignor to Boice-Crane Company, Toledo, Ohio, a corporation of Ohio
Application January 12, 1951, Serial No. 205,812
2 Claims. (Cl. 144—253)

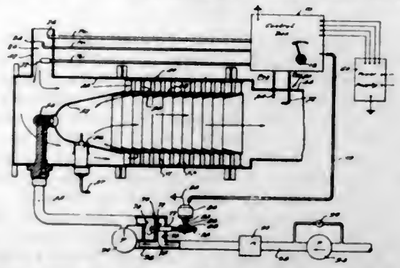


1. The combination of a machine table, a hollow fence triangular in cross section with an apical portion thereof engageable with and movable over the table, and adjustable means for holding said fence in bodily shifted and tilted positions relative to said table, said means including a bracket arm connected to the table and extending rearwardly thereof and terminating in an upstanding vertically slotted arm, a longitudinally slotted arm pivoted to the upper portion of the fence and extending rearwardly to said vertically slotted arm, and an adjustable clamp extending through both the slots of said arms for holding the same in adjusted position.

2. The combination claimed in claim 1, said clamp including a clamp screw having a shank extending through said slots, a nut threaded on one end of said shank and engaging one of said arms at the sides of the slot therein, a shoulder on the other end of said shank engaging the sides of the slot of the other of said arms, and a handle affixed adjacent said shoulder, there being another handle affixed to said fence and extending upwardly therefrom in the region adjacent the pivotal mounting of the slotted arm which extends rearwardly from said fence, whereby said handles may be simultaneously grasped for adjusting the fence.

2,592,385
COMBUSTION CONTROL APPARATUS
David M. Borden, Huntington Woods, and Paul T. Nims, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application May 27, 1949, Serial No. 95,654
18 Claims. (Cl. 236—15)

6. Means for automatically controlling the rotative position of a fuel metering motor in an operating combustion system characterized by a burner supplied with the metered fuel and having means providing for a supply of intake air and for discharge of the energy gases, said fuel metering motor having a plurality of windings energizable to position the motor; said means comprising means including an amplifier device responsive to electrical signals for controlling the energization of at least one of said windings to change the respective metering rate position of the motor, and means including an electrical system in a state of voltage balance comprising operator operated voltage divider means for changing the voltage level to be maintained in the system to a different level thereby introducing a state of unbalance in the system, and pluralized voltage divider means connected to said operator operated divider means for matching the new voltage level and restoring balance to the system, said pluralized divider means being adapted to emit signals to the amplifier device for appropriately changing the metering rate to a different rate only so long as unbalance exists in the system and having first, second, third, fourth, and fifth voltage dividers electrically interrelated in a predetermined sequence such that a majority of the dividers are each coupled across the portion of the preceding divider selected by its contact and at least one di-



vider is coupled across a fixed length of the preceding divider, said first voltage divider including an element adjustable in accordance with the temperature of the intake air to the burner, said second voltage divider including an element adjustable in accordance with an existing force differential created by static and total pressures of the intake air acting in opposition to one another according to a predetermined relationship, said third voltage divider including an element adjustable in accordance with an existing force differential created by static and total pressures of the energy gas acting in opposition to one another according to a predetermined relationship, said fourth voltage divider including an element adjustable in accordance with one of the static and total pressures of the intake air to the burner, and said fifth voltage divider including an element adjustable in accordance with one of the static and total pressures of the energy gas from the burner.

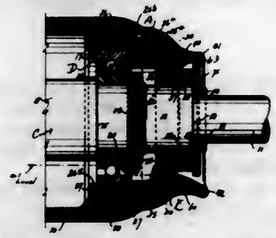
2,592,386
PRICE TAG OR TICKET HOLDER
Norman J. Breakey, Toronto, Ontario, Canada
Application March 22, 1950, Serial No. 151,188
In Canada April 8, 1949
4 Claims. (Cl. 40—11)



1. In combination a longitudinal strip having an overturned longitudinal edge forming a resilient flange formation having a leg spaced from and parallel to the strip and defining with the strip a channel said flange leg having a longitudinal bead formation on the inner face thereof adjacent the free edge thereof, and an indicia carrying card having a stiff sloping wall

cam protuberance projecting from the surface thereof to co-operate with said flange bead to interlock said card in said channel and to cam said resilient flange about and outwardly of the strip under forceful movement of said card into or out of said channel.

2,592,387
SHAFT BEARING STRUCTURE
Earl E. Brown, Camden, N. J., assignor of one-half to George A. Streitz, Camden, N. J.
Application July 1, 1948, Serial No. 36,471
19 Claims. (Cl. 308—187.1)



1. In a bearing structure the combination of a housing, a shaft, a bearing mounted upon the shaft, a housing attaching cap structure having a portion extending into the housing for receiving the bearing therein, and a slinger ring mounted upon said shaft and rotatable therewith disposed at the outer end of said cap structure, said slinger ring and cap structure being provided with interfitting relatively spaced flanges defining a labyrinth passageway to prevent access of external matter to the bearing, and a lubricant shield located at the side of the bearing facing the slinger ring to prevent leakage of lubricant from the housing past said bearing.

2,592,388
RODENT TRAP
John T. Brubaker, Luray, Va.
Application August 21, 1946, Serial No. 691,953
6 Claims. (Cl. 43—81)



6. A rodent trap having a generally arched resilient base member adapted to be positioned on a floor to flatten under the weight of a rodent, a striker and actuating means therefor carried by the base, a trip rod pivoted to the base to restrain the striker, a sleeve rising from the base and having a hook beneath which the trip rod is engageable to hold the parts in set position, a slidable trip latch carried by said sleeve, said trip latch being disposed normally above the floor level and adapted for actuation through contact with the floor as the base flattens.

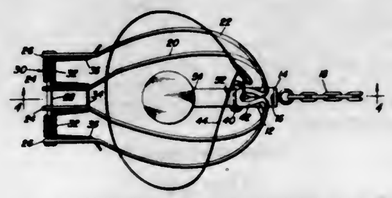
2,592,389
STRINGER AND CARRIER FOR FISH, GAME, OR OTHER OBJECTS
Albert C. Budy, Cleveland, Ohio
Application March 30, 1948, Serial No. 17,868
3 Claims. (Cl. 224—7)

1. A device of the class described comprising a relatively heavy stiff spring wire unit including a handle bar of a length to accommodate the width of a hand, a convolute ring formed of a portion of the wire at one end of said bar, a stringer loop of a capacity to receive several pieces of game or other objects joined at its proximal end to the end of said ring opposite that which joins the bar and through the medium of which ring the loop is resiliently connected to the bar, the end of the bar remote from the ring being formed with a return bend to provide a hook for the reception



of the distal end of the loop, said distal end terminating in a transversely flattened and pointed barb shaped to provide a downwarly opening notch on the side thereof toward the outer side of the loop for the reception of the top side of the closed end of the hook whereby the weight of pieces of game or other objects strung on the loop enhances the holding connection between said barb and hook.

2,592,390
SNARE
Richard E. Burt, Dalton, N. Y.
Application June 20, 1950, Serial No. 169,100
3 Claims. (Cl. 43—87)



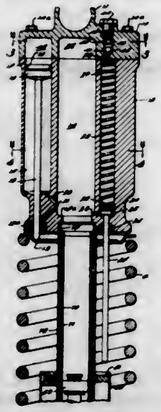
1. In a snare, the combination of a base adapted to be secured to a support, upper and lower complemental actuating members comprising elongated wire frames hingedly connected together at one end thereof for swinging movement from a superposed set position to an extended sprung position, a pair of guiding eyes provided on the free end portions of said frames, a flexible snare element connected at one end thereof to said base and extending through said eyes, the remaining end portion of said element affording an expansible and contractible loop adapted to overlie said upper frame for movement therewith, a spring provided on the hinged connection of said frames for swinging the same to the sprung position, a latch pivoted to the free end portion of one frame and engaging the free end portion of the second frame whereby to lock said frames in the set position, and a depressible trigger provided on said latch and disposed within said upper frame when the latter is in a set position for releasing the same, whereby said members may be sprung and said loop contracted thereby.

2,592,391

ADJUSTABLE SUSPENSION FOR VEHICLES

John P. Butterfield, Grosse Pointe Woods, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application December 13, 1947, Serial No. 791,616
10 Claims. (Cl. 267—65)



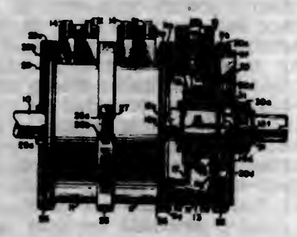
1. In a suspension, a first part, a second part, coiled resilient means supporting the second part for reciprocative movement on the first part, a third part, and an hydraulic lift device adjustably supporting the third part on the second part, said hydraulic lift device comprising means forming a liquid chamber between the second and third parts, a pump on the third part having an input member disposed within the coils of the coiled resilient means and projecting in the direction of the first part for energy receiving engagement therewith and being responsive to reciprocal movement of said third and second parts relative to said first part under a condition of heavy load on the resilient means for pumping liquid into the chamber, and a similar pump responsive to reciprocal movement of said third and second parts relative to said first part under a condition of light load on the resilient means for pumping liquid out of the chamber.

2,592,392

INTERCHANGEABLE ADJUSTABLE RESISTANCE UNIT

Victor J. Canziani and David C. Silverman, Brooklyn, and Robert P. Wiener, Bronx, N. Y., assignors to Fairchild Camera and Instrument Corporation, a corporation of Delaware

Application March 10, 1951, Serial No. 214,932
14 Claims. (Cl. 201—48)



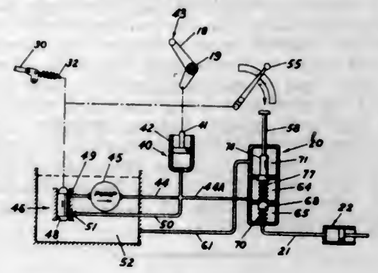
1. An interchangeable adjustable resistance unit adapted for assembly with other like units on a common continuous actuating shaft to form a multiple-unit adjustable resistance device comprising: a cup-shaped housing having an external peripheral clamping ridge at either end thereof; an annular resistance element disposed in said housing and provided with external connection terminals; and an electrical wiper assembly including a sleeve adapted for mounting on an actuating shaft an electrical wiper mounted on said sleeve, said sleeve having complementary segmental extensions on opposite ends thereof for engaging similar sleeve extensions of like adjacent units; and means including a sliding contact and an external terminal for making electrical connection with said wiper.

2,592,393

PUMP AND MOTOR HYDRAULIC SYSTEM FOR USE ON TRACTORS

John M. Chambers, Leamington Spa, England, assignor to Harry Ferguson, Inc., Detroit, Mich., a corporation of Delaware

Application March 24, 1949, Serial No. 83,253
6 Claims. (Cl. 60—52)



6. In a tractor hydraulic system of the type having a source of pressure fluid, a sump, a pressure fluid conduit, pressure fluid responsive means connected to said conduit, and a manual operator for alternatively initiating the delivery of pressure fluid to said conduit in one portion of its range of movement and for bleeding pressure fluid from said conduit to the sump in the other portion of its range of movement, the combination comprising a hydraulic actuator connected to said conduit, a check valve interposed between said conduit and said actuator to allow flow of pressure fluid to the latter, and means actuated by said manual operator for simultaneously opening said check valve and for providing a direct dumping connection between said pressure conduit and said sump.

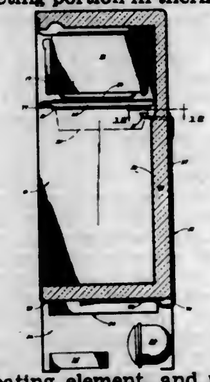
2,592,394

REFRIGERATOR DEFROST PRODUCT DISPOSAL SYSTEM

John E. Cochran, Cincinnati, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware

Application July 28, 1950, Serial No. 176,352
11 Claims. (Cl. 62—103)

1. In a refrigerator the combination of an evaporator, a removable baffle and moisture collecting member having a heat-conductive top cover, a defroster heating element mounted beneath said evaporator, said cover having an upwardly projecting portion in thermal engagement with said heating element, and means for slidably mounting said member below said element.

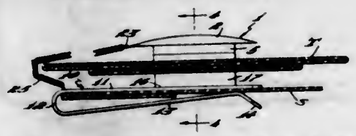


2,592,395

MAGNETIC NECKTIE HOLDER

Robert E. Cummings, Cranston, R. I., assignor to The Hadley Company, Incorporated, Providence, R. I., a corporation of Rhode Island

Application April 13, 1950, Serial No. 155,691
3 Claims. (Cl. 24—49)



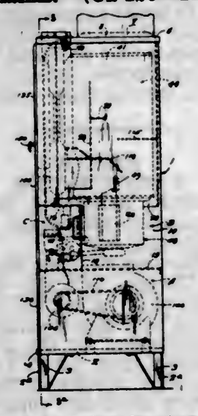
3. A necktie fastener, comprising a securing member adapted for removable attachment to a garment, a separate ornamental member, flexible linkage means connecting said members, a permanent magnet on one of said members, and a magnetically permeable element on the other member for holding them in gripping engagement with an interposed necktie flap.

2,592,396

HOT-AIR FURNACE, PARTICULARLY OF THE FORCED-DRAFT TYPE

John A. Dahlstrom, Bay Village, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio

Application January 23, 1948, Serial No. 3,917
17 Claims. (Cl. 126—110)



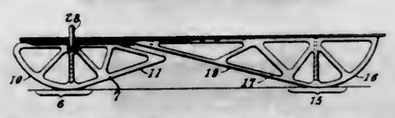
5. In a furnace, a casing having air admitting means adjacent the bottom thereof and air outlet means at its top, air impelling means for producing upward flow of air through the casing, closure means constituting the front of the casing and removably attached thereto, a unitary structure including a combustion chamber supported within the casing for removal through the front thereof, a combustion device in operative relation to the combustion chamber, the casing including a vertical wall in outwardly spaced relation to the rear and lateral sides of the combustion chamber, substantially horizontal air deflecting means connected to said wall and extending laterally between said wall and the combustion chamber about the rear side of the latter intermediate the top and bottom thereof, and other generally horizontal air deflecting means carried by the unitary structure and extending about the front portion of the combustion chamber and located in a plane vertically spaced from the plane of the former air deflecting means.

2,592,397

SLED OR SLEIGH

Frederick A. Dubbs, Philadelphia, Pa.

Application February 21, 1950, Serial No. 145,370
3 Claims. (Cl. 280—16)



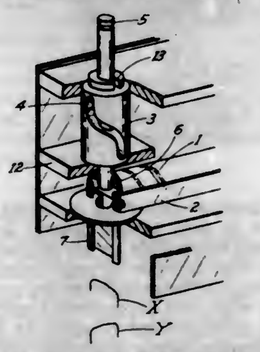
1. In a sled or sleigh, an elongate top or body board; a pair of parallel steering runners having inwardly-rounded frontal edge portions and straight edge portions in tangential relation to said rounded edge portions extending upwardly and rearwardly at a relatively sharp acute angle to the horizontal to a point approximately midway of the length of the body board; and a pair of fixed parallel rear runners with upwardly-rounded rear edge portions and straight edge portions in tangential relation to said rounded edge portions extending upwardly and forwardly at a similar relatively sharp acute angle to the horizontal to a point somewhat beyond the center of the body board into overlapping relation with the rearwardly extending inclined edge portions of the steering runners.

2,592,398

STAPLING MACHINE

Jay N. Edmondson, Harry Poulos, and Clarence R. James, Columbus, Ohio

Application June 14, 1950, Serial No. 167,952
3 Claims. (Cl. 1—3)



1. In a staple driving assembly for a stapling machine, said assembly comprising, a staple driv-

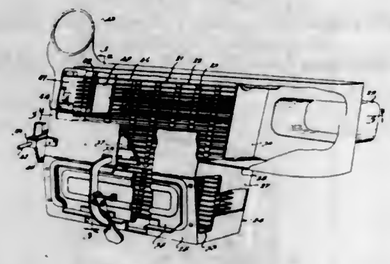
ing plunger, means mounting said plunger for reciprocating movement, a rotatable cylinder in which said plunger reciprocates, a magazine for supporting a strip of staples with a foremost staple of the strip below the plunger to be driven thereby, a freely rotatable member having a staple receiving guideway mounted below the foremost staple, a pin extending transversely of the plunger, cam grooves in said cylinder for receiving the end of the pins, and means to prevent rotation of said cylinder whereby said plunger upon reciprocation to drive a staple will first move vertically to advance the staple into the guideway of said freely rotatable member and then rotate said driver and said member upon further advance of said plunger.

2,592,399
CURRENT-LIMITING FUSE
William S. Edsall, Boston, Mass., Kenneth W. Swain, Hampton Falls, N. H., and Frederick J. Kozacka, Amesbury, Mass., assignors to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application October 4, 1949, Serial No. 119,476
42 Claims. (Cl. 200—120)



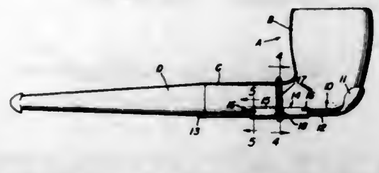
22. In a current-limiting fuse the combination of a casing, a pair of terminal elements arranged on opposite ends of said casing, a ribbon-type fuse link within said casing interconnecting said terminal elements, and an arc-extinguishing filler within said casing, said filler consisting of quartz sand at the axially outer portions of said link and of gypsum powder at the axially inner portions thereof.

2,592,400
HEATER
Franklin W. Edwards, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application June 10, 1946, Serial No. 675,529
1 Claim. (Cl. 257—136)



A space heater including a casing, a heat exchange unit in said casing spaced laterally from a wall thereof to provide an air passageway therebetween, a first damper in said passageway, said casing having air inlet and outlet openings communicating with said passageway respectively upstream and downstream relative to said damper, said first damper being shiftable between a first position to extend at an inclination between said casing wall and unit for deflecting air through said unit prior to discharge thereof at said outlet opening and a second position accommodating the flow of air thereby to said outlet opening bypassing said unit, said casing having a second air outlet opening upstream of said damper and adapted to communicate with said passageway, a vertically disposed plate extending between opposed faces of the unit, a horizontally disposed plate extending between said unit and a wall of said casing adjacent to and below said second outlet opening and said vertical plate, and a second damper in said passageway upstream of said first damper positionable vertically in substantial alignment with said vertical plate and adjacent to said horizontal plate for cooperation with said plates to block the flow of air from said passageway to said second outlet in a path other than through said unit, and said second damper being shiftable to a position relative to said plates accommodating the flow of air to said second outlet opening in a path bypassing said unit.

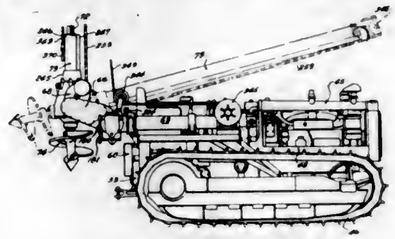
2,592,401
TOBACCO-SMOKING PIPE BOWL AND STEM CLEANER
Fred G. Enssle, Roselle Park, N. J.
Application January 11, 1949, Serial No. 70,248
2 Claims. (Cl. 131—184)



1. An attachment for a smoking pipe comprising a multiple purpose instrument having a head and handle portions, said handle portions having an arcuate section comformable with that portion of the stem which it is adapted to bear against, and means for removably attaching said instrument on said smoking pipe, said means comprising a channel-shaped clip having a transverse indentation, having inwardly directed lugs bearing against predetermined surfaces of said stem and having a transverse spring-accommodation slot, said slot being adapted to expose a limited portion of said handle, and an endless coil spring adapted to embrace said stem, clip, and handle portion, said spring being releasably engageable in said indentation and slot and thus being adapted to bear against said exposed handle portion and that portion of said spring which is adapted to contact said clip and handle portion, due to said indentation, inbent lugs, and said slot, forming a substantially continuous convex curve.

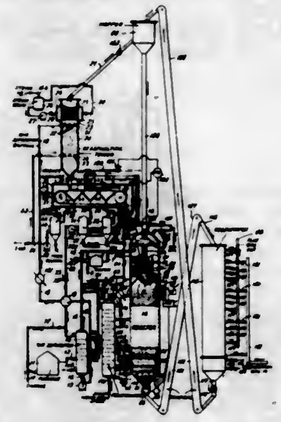
2,592,402
EARTH AUGER
Nicholas M. Erdahl, Milwaukee, Wis., assignor to Trackson Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 31, 1948, Serial No. 5,581
10 Claims. (Cl. 255—22)

1. In an earth auger, a vehicle having a source of power thereon, an auger mounted on the vehicle for axial movement by the power source, a chain drive transmitting power from the source to the auger for axial movement thereof in either direction, a spring yieldingly connecting one end of the chain with the top of the auger, and a second spring yieldingly connecting the other end of the chain with said top of the auger, said springs acting alternately to maintain tension



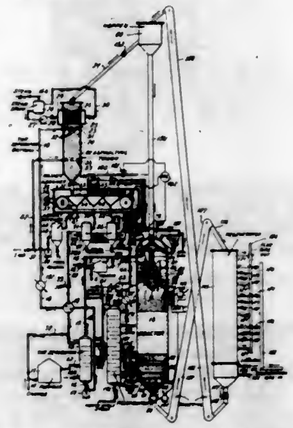
on the chain in either direction of axial movement of the auger.

2,592,403
METHOD OF PREPARING HYDROCARBON FEED STOCKS CONTAINING ASPHALTIC MATERIAL FOR CATALYTIC CRACKING
Louis P. Evans, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Original application September 27, 1947, Serial No. 776,471. Divided and this application October 9, 1948, Serial No. 53,726
7 Claims. (Cl. 196—52)



1. A process for conversion of original petroleum stocks of broad boiling range containing vaporizable fractions and heavy liquid oil and asphalt fractions at elevated temperatures in the presence of a moving contact material which comprises, heating said petroleum stock to a temperature below that at which substantial thermal cracking would occur but sufficiently high to effect vaporization of a substantial portion of said stock, separating the vaporized portion from the non-vaporized portion of said stock, effecting removal of asphalt material from said non-vaporized portion, bringing the deasphalted non-vaporized portion into contact with a moving contact material at suitable elevated conversion temperatures to effect conversion of said non-vaporized portion, also bringing said vaporized portion into contact with said contact material at elevated conversion temperatures to effect the desired conversion of said vaporized portion and separating the mixed conversion products of said portions from said contact material.

2,592,404
METHOD FOR HYDROCARBON CONVERSION
Louis P. Evans, Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, a corporation of New York
Application September 27, 1947, Serial No. 776,471
4 Claims. (Cl. 196—52)

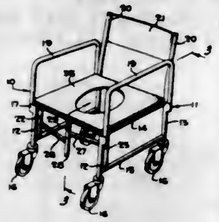


1. A process for catalytic conversion of the oily constituents in asphalt bearing high boiling hydrocarbon fractions to lower boiling products at controlled elevated temperatures in the presence of a particle-form catalyst which comprises: contacting the asphalt bearing fraction with a particle-form catalyst existing at a temperature below about 750° F. which is substantially below the temperature at which said fraction undergoes conversion to lower boiling products and having a structure in which the total macropore volume is less than about 30 percent of the total pore volume and the minimum average particle diameter is greater than about 60 mesh while controlling the temperature suitable for sorption of oily constituents by said catalyst, separating the unsorbed asphaltic constituents from the catalyst and passing the catalyst bearing sorbed oily constituents in admixture with a sufficient quantity of hot freshly regenerated catalyst of the same type to heat it to a suitable temperature for conversion of said oily constituents at least in part to lower boiling gaseous hydrocarbon product downwardly through a confined conversion zone as a substantially compact column to effect conversion of said oily constituents to gaseous hydrocarbon product, said hot catalyst existing initially at a temperature substantially above said suitable conversion temperature, withdrawing said gaseous product from said conversion zone, separately withdrawing used catalyst bearing carbonaceous contaminant deposited from said conversion zone, passing said used catalyst through a separate burning zone while contacting it therein at controlled elevated temperatures with a combustion supporting gas to burn said deposits, and mixing the regenerated catalyst while hot with said catalyst bearing oily constituents as aforesaid.

2,592,405
COLLAPSIBLE COMMODE CHAIR
Herbert A. Everest and Harry C. Jennings, Los Angeles, Calif.
Application June 14, 1948, Serial No. 32,826
10 Claims. (Cl. 155—140)

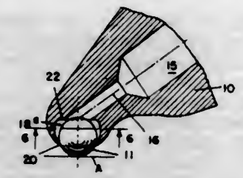
8. In a collapsible chair, a pair of opposed side structures, each side structure having an upper

seat bar and a lower bar extending from front to rear thereof, a brace element for each side structure, each brace element having a knuckle extending from the seat bar to the lower bar



and being pivotally mounted on said bars for swinging movement about a vertical axis, and means pivotally connecting the swinging ends of the brace elements to each other.

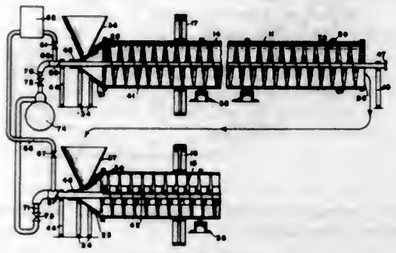
2,592,406
FOUNTAIN PEN OF THE BALL POINT TYPE
William G. Faltin, York, Pa.
Application May 5, 1949, Serial No. 91,575
13 Claims. (Cl. 120—42.4)



1. In a fountain pen of the ball point type, a writing tip, a barrel and an ink reservoir operatively mounted on one end thereof, said writing tip having an end-to-end ink feed passage extending between the reservoir and the cavity of a ball socket provided in the other end thereof, a ball type writing point mounted in said cavity for free rotation and being retained therein by the edge of the socket, the axis of the cavity being inclined to the axis of the feed passage by an angle such that the bottom wall of the cavity intersects the feed passage at an acute angle thereby to provide an elongated opening between said feed passage and said cavity, and that the line of said ball-retaining edge is disposed substantially parallel to the writing surface when the pen is held in the customary angular writing position.

2,592,407
METHOD OF PROCESSING RICE FOR PRESERVING THE VITAMIN CONTENTS THEREOF
Daniel S. Fernandes, Paramaribo, Surinam, Dutch West Indies
Application March 29, 1950, Serial No. 152,709
In the Netherlands September 9, 1948
5 Claims. (Cl. 99—11)

1. In processing rough rice, the method of preserving the vitamin contents of the rice which includes the steps of rendering and maintaining the surfaces of the rice grains readily and uniformly accessible to treatment, by spreading the rough rice in a thin layer and imparting to the grains a slowly progressing and rolling motion, conveying into and diffusing within the kernels of the rice the vitamins contained in the silver-coat, the outer cell layers, and the germs thereof, by causing water to permeate gradually the kernels up to the saturation point thereof while keeping the quantity of water supplied in any fluid condition to the process at most in slight excess of the quantity taken up by the kernels thereby avoiding any escape of liquid water and



with the water of any vitamins out of the kernels; fixing the vitamins diffused in the kernels by gelatinizing the starch in the kernels under moderate conditions of temperature and pressure; and drying thereon the rice at substantially atmospheric pressure and moderate temperature.

2,592,408
ELECTRON DISCHARGE DEVICE
Warren R. Ferris, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 18, 1945, Serial No. 588,956
9 Claims. (Cl. 315—39)

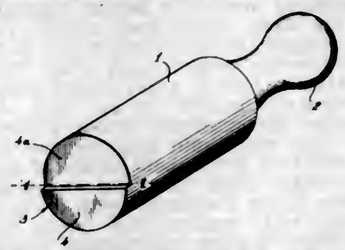


1. An electron discharge device having a pair of elongated flat spaced oppositely disposed conducting members, said conducting members having registering apertures therein, a plurality of parallel conductors extending through and spaced around said apertures and mounted intermediate their ends transversely of and on said conducting members and providing anode segments, alternate conductors being connected to opposite conducting members, cathode means adjacent said parallel conductors for providing an electron discharge within the space surrounded by said conductors, and means adjacent said conductors for providing a magnetic field within the space surrounded by said conductors and parallel to said conductors.

2,592,409
PILOT GAUGE
Edwin Frankland, Detroit, Mich., assignor to Vinco Corporation, Detroit, Mich., a corporation of Michigan
Application May 15, 1945, Serial No. 593,955
5 Claims. (Cl. 33—178)

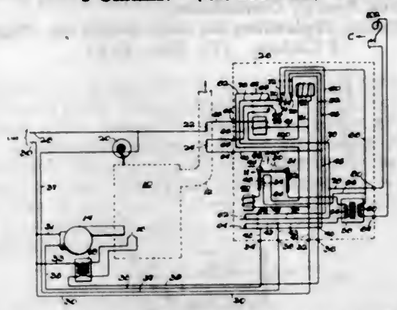
1. A gauge having a continuous cylindrical gauging surface of more than 180 degrees extent including a body portion bounded by said surface having a plane end face normal to said surface and a pilot extension of said body portion

bounded for a substantial portion of its wall area by said surface, said extension covering a minor



portion of the said end face of said body portion.

2,592,410
AUTOMATIC BURNER CONTROL SYSTEM
Paul G. Frerer, Baltimore, Md., assignor to Bendix Aviation Corporation, Baltimore, Md., a corporation of Delaware
Application April 14, 1948, Serial No. 20,941
8 Claims. (Cl. 158—28)



1. A control apparatus for an electrically actuated ignition device and a burner, comprising a burner actuating circuit including a main relay; a normally open switch adapted to be closed by said relay in response to a call for heat from said burner, one side of said switch being connected to a power supply lead; a first normally closed switch; means for opening said first switch at a first temperature level of the products of combustion of said burner; a second normally closed switch; means for opening said second switch at a second temperature level of the products of combustion of said burner higher than said first level; circuit means including manually operable means for selectively connecting said first and second switches between the other side of said normally open switch and an ignition supply lead, and means for connecting said ignition device between said ignition supply lead and a power supply lead.

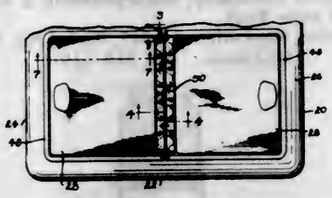
2,592,411
FLEXIBLE LEAF HINGE
Alvah V. Frohnapel, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Original application June 13, 1947, Serial No. 754,376. Divided and this application May 5, 1950, Serial No. 160,188
3 Claims. (Cl. 16—150)

1. A hinge for connecting together a pair of refrigerator cabinet lids comprising, a pair of angle hinge members formed of sheet material, said hinge members each having a leg to be secured respectively to opposed ends of the lids and each having a channel-shaped leg to seat on the upper surface of a lid, a pliable connecting strip having opposite marginal edge portions



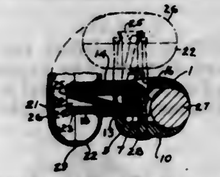
clamped in and by said channel-shaped legs, and offset ears at opposite ends of said hinge members for securing the hinge members to the lids.

2,592,412
LID FOR REFRIGERATING APPARATUS
Alvah V. Frohnapel, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application June 13, 1947, Serial No. 754,376
2 Claims. (Cl. 220—24)



1. A rectangular lid for closing an opening in the top of a refrigerator cabinet comprising, an inner relatively deep pan member having an outturned flange extending along three sides thereof and having an inturned flange extending along the fourth side, an outer relatively shallow pan member having an outer marginal portion seating on said flanges, an intermediate pan member conforming to the contour of said outer pan member having an outer marginal portion between said first flanges and the marginal portion of said panel, a clamping-strip of U-shape cross section receiving and clamping said outturned flange and marginal portions together along said three sides, and a hinge member clamping said inturned flange and said outturned flange and the marginal portions of said intermediate pan member together along said fourth side.

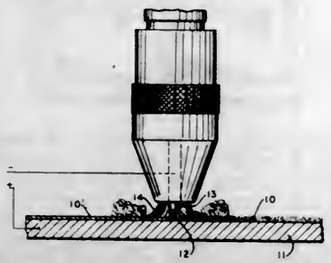
2,592,413
STEERING DEVICE FOR STEERING WHEELS
Sydney Garfield, Los Angeles, Calif.
Application May 1, 1947, Serial No. 745,353
9 Claims. (Cl. 74—557)



1. In a steering device for attachment to a steering wheel, the combination with a clamp adapted for clamping engagement with a part of the wheel, of a knob adapted to be grasped by the hand, a shaft supported by said clamp with the axis of the shaft generally parallel to the plane of the wheel when said clamp is in clamping engagement with said part of the wheel, a member supported by said shaft for pivotal

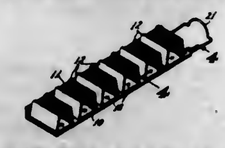
movement thereof on the axis of said shaft relative to said clamp, said knob being supported by said member outwardly thereof from said shaft whereby said knob is moved to different positions relative to said part of the wheel upon pivotal movement of said member on said axis of said shaft, said member being formed with a cavity therein, said shaft extending into said cavity, and bias means comprising a spring within said cavity extensible and contractible in the direction transversely of said shaft axis and engaging said shaft and engaging said member outwardly toward said knob from said shaft for effecting pivotal movement of said member and said knob supported thereby on said shaft in a given direction with respect to said part of the wheel.

2,592,414
METHOD OF PRODUCING HARD-FACED METAL
Glenn J. Gibson, Summit, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application November 8, 1947, Serial No. 784,858
2 Claims. (Cl. 219—10)



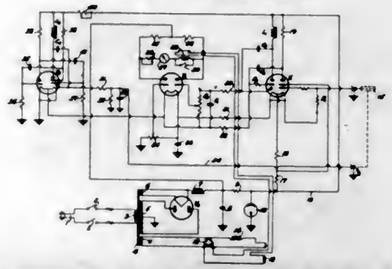
1. The method of hard facing metal which comprises completely covering the surface of the base metal with a layer of electrically conductive particles of at least one carbide from the group consisting of the carbides of tantalum, titanium, tungsten, columbium and boron, passing an electric current between a non-consuming electrode and the carbide particles and establishing an arc between the electrode and the particles, shielding the arc and the carbide particles melted thereby with an inert gas, and producing relative movement between the gas-shielded arc and the carbide-covered base metal to traverse the arc over the carbide particles and thereby progressively fuse them into a smooth uniform carbide layer bonded to the base metal without substantial oxidation of the carbide or substantial contamination of it by the base metal.

2,592,415
CARTRIDGE LOADING DEVICE
Austin Joseph Grogan, Los Angeles, Calif.
Application July 28, 1949, Serial No. 107,351
6 Claims. (Cl. 224—23)



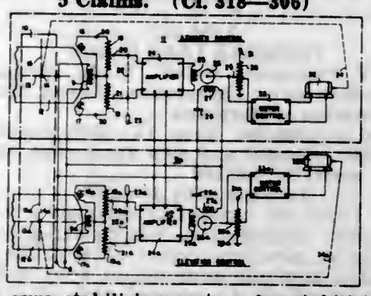
1. In a cartridge loading device of the type described, a relatively short, substantially thin, body member of non-corrosive rigid material of a width less than the length of the cartridge to be used therewith; a plurality of open-ended resilient clips transversely arranged along the one side of said body member, each clip including a pair of resilient arms of a length substantially equal to the width of said body member for releasably gripping the base portion of a cartridge sidewisely inserted between said arms, the nose of each cartridge held by a pair of said arms projecting outwardly beyond the one edge of said body member and insertable within a cartridge chamber after which said body member can be pivotally moved to bring about release of said inserted cartridge from the arms engaging the same; and a flange coextensive with the opposite edge of said body member, said flange holding said cartridges against longitudinal movement in one direction and forming an index means for locating the cartridges longitudinally of said clips.

2,592,416
INDICATING DEVICE FOR RADIOACTIVITY INTENSITY
Edward J. Groth, Jr., St. Louis, Mo., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application September 26, 1947, Serial No. 776,245
8 Claims. (Cl. 250—83.6)



1. A counting rate circuit of the character described comprising a counter, a source of power for said counter, amplifying means fed by said counter, said amplifying means serving to clip pulses greater than those of a predetermined magnitude inductive wave shaping means in the output of the amplifier to provide waves of similar shape, means for rectifying the output of said wave shaping means, an integrating circuit in series with said rectifying means, and a vacuum tube volt meter for indicating the pulse rate.

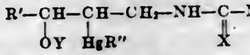
2,592,417
GYROSTABILIZING SYSTEM
Henry E. Hale, Freeport, N. Y., assignor to Fairchild Camera and Instrument Corporation, a corporation of Delaware
Application October 8, 1945, Serial No. 621,066
5 Claims. (Cl. 318—306)



1. A gyro-stabilizing system for stabilizing an object pivotally movable about a given axis comprising, a rate-gyro adapted to be supported from said object with its pivotal axis and its spin axis lying in a plane at an angle to said given axis, means for deriving two opposed effects varying in opposite senses with the pivotal movement of said rate-gyro and normally balanced in the absence of such pivotal movement, means responsive to the difference of said effects for producing pivotal movement of said object about said given axis in a sense to reduce the pivotal movement of said rate-gyro, and manually operable means for varying in opposite senses the portions of said effects applied to said responsive means to establish a predetermined rate of pivotal movement of said object.

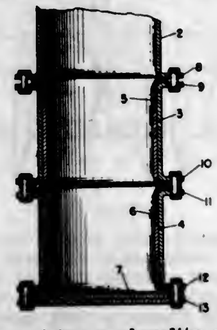
2,592,418
DIURETIC MERCURY COMPOUNDS
Alfred Halpern, Pittsburgh, Pa., assignor to E. Fougera & Co., Inc., New York, N. Y., a corporation of New York
No Drawing. Application November 30, 1949, Serial No. 130,363
5 Claims. (Cl. 260—431)

1. A new compound of the general formula



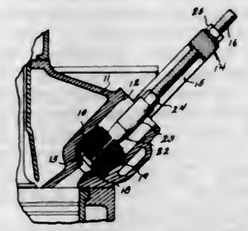
wherein R′ is selected from the group consisting of H and CH_3; Y is selected from the group consisting of H, methyl, ethyl, propyl and isopropyl; R″ is selected from the group consisting of theophylline, theobromine and succinimide; X is selected from the group consisting of O and NH and Me is selected from the group consisting of H and alkaline metal atoms with an atomic weight below 56.

2,592,419
LEAD LINED VESSEL
James I. Harper, Media, and Frank R. Shuman, Jr., Chester Springs, Pa., and Ralph C. Peters, Haddonfield, N. J., assignors to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application January 20, 1948, Serial No. 3,363
1 Claim. (Cl. 220—63)



A vessel comprising a plurality of tubular sections, each having upper and lower outwardly extending flanged ends, means for interconnecting the upper and lower flanged ends of adjacent sections, non-corrosive malleable tubular liners for the sections, each liner having upper and lower outwardly extending flanged ends, the upper and lower flanged ends of adjacent liners being positioned between the upper and lower flanged ends of adjacent sections but having their outer peripheral edges terminating short of the outer peripheral edges of the flanged ends of the sections providing a space inwardly of the ends of said sections, a ring in said space positioned adjacent the ends of said liners to maintain the upper and lower flanged ends of adjacent sections spaced apart a predetermined distance and to prevent exertion of pressure on the flanged ends of the liners, sealing means between the ring and flanged ends of adjacent liners, said sealing means being fused to the liner ends and ring to secure the liners to the ring in order to prevent any substantial outward movement of the liner flanged ends and closure means for the top and bottom sections to provide a pressure tight vessel.

2,592,420
PULLING TOOL
Edward E. Harrison, Thomaston, Ga., assignor of one-third to Ollie Howard Cochran and one-third to Perry Mathews, both of Thomaston, Ga.
Application February 24, 1950, Serial No. 146,125
1 Claim. (Cl. 29—265)



A pulling tool for extracting cylindrical, cup-shaped pre-combustion chambers from their bores in diesel engines, comprising a U-shaped yoke member adapted to engage outside surface of the engine astride the bore and having an opening in its cross bar; a screw threaded stem slidably extending through said opening in the cross bar centrally between the legs of the yoke member and having a head with a flat upper surface on its lower end; an expander composed of a plurality of complemental cylindrical segments with roughened outer surfaces from top to bottom, each having a flat bottom wall adapted to rest on the upper surface of said head; said expander segments having a bore tapered at a small angle from top to bottom and diverging upwardly with its lower end smaller than said head; the assembled segments having an annular groove in their outer walls substantially midway between their ends and a spring member seated in the groove for holding the segments contracted about said stem; an elongated and tapered expander sleeve loosely and slidably mounted on the stem above said expander with its taper corresponding with the taper of said tapered bore and adapted to be forced downwardly to the bottom portion of the tapered bore to expand all of the segments radially and in parallelism with their roughened surfaces in gripping and binding engagement with the inner cylindrical surface of the pre-combustion chamber throughout its height; an elongated nut having a wrench-receiving head on its upper end screw threaded on the stem above the expander sleeve to exert expanding pressure thereon; the length of said nut being such that it is accessible above the upper end of the chamber bore in an engine for ready engagement by a wrench; and an extracting nut on the upper end portion of said stem coacting with the upper surface of the cross bar of the yoke, the size and shape of the head on the lower end of said stem being such that it can be seated within the bottom portion of the pre-combustion

chamber when the contracted expander is seated in the cylindrical portion thereof, and said segments being slightly longer than the cylindrical portion of the chamber, so that their upper ends project thereabove to permit the expanded and wedged-in segments to be tapped on their upper ends after the expanding nut is backed off for removing the extracted chamber from the tool without damaging its upper end wall, whereby it can be cleaned and replaced.

2,592,421

METHOD OF AGGLOMERATING FINELY DIVIDED MATERIALS

Thorbjorn Heilmann, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey

No Drawing. Application August 5, 1947, Serial No. 766,473. In Denmark October 10, 1945 Section 1, Public Law 690, August 8, 1946. Patent expires October 10, 1965.
2 Claims. (Cl. 75—3)

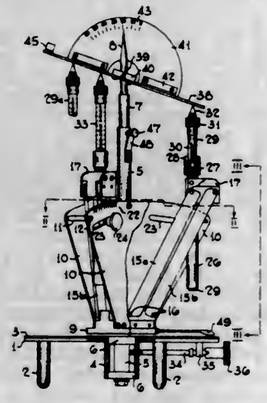
1. In a method of treating materials consisting of ores and slags containing a metal of the class made up of uranium, vanadium, tungsten, and chromium, the steps of preparing a finely divided mixture of the material and anhydrous sodium carbonate, moistening the mixture and agitating it, while maintaining the mixture at a temperature higher than about 35° C. and below 100° C., and continuing the agitation of the mixture at said temperature, until the mixture has been formed into nodules.

2,592,422

WELL LOGGING APPARENT DIP DETERMINING APPARATUS

Alexander B. Hildebrandt and Leroy W. Ledgerwood, Jr., Tulsa, Okla., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 26, 1950, Serial No. 164,308
5 Claims. (Cl. 33—1)



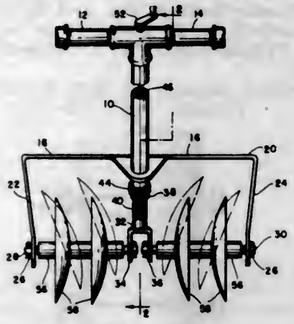
1. A device for computing the angle and direction of apparent dip of strata encountered by a borehole from indicia relating displacement of at least three uniformly spaced profiling arms in contact with the borehole in relation to the center thereof and the azimuthal orientation of one of said arms, comprising a base, an azimuthal scale positioned in a horizontal plane on said base, a rotatable member supported on said base with its center of rotation coincident with the center of said scale, at least three vertically extendable arms supported by said rotatable member, means for moving said arms laterally in vertical planes equally spaced radially about said center of rotation, while maintaining said extendable arms at all times in a vertical position, scale means supported by said rotatable member adjacent said means for moving said extendable arms laterally and provided with scales indicative of lateral displacement of said arms from said center of rotation, a central shaft held vertically by said rotatable member over said center of rotation and adapted for both rotational and slidable movement with respect to said rotatable member, a vertical pointer attached to the top of said central shaft, a circular plate pivotally supported at its center by said central shaft below said pointer, said plate being of sufficient size to rest on the upper ends of said extendable arms when said central shaft is moved downwardly relative to said rotatable member, a semicircular plate attached to said circular plate adjacent said pointer and positioned in a plane perpendicular to said circular plate, and passing through the centerline thereof that is perpendicular to its pivotal axis, and an index pointer attached to said rotatable member adjacent said azimuthal scale, each of said extendable arms being provided with scales indicative of vertical extension from a selected datum point, and said semicircular plate being provided with a scale adjacent said vertical pointer indicative of the dihedral angle formed by a horizontal plane and the plane of repose of said circular plate.

2,592,423

ADJUSTABLE DISK GARDEN CULTIVATOR

Marion S. Hoenshell, Seattle, Wash.

Application July 1, 1947, Serial No. 758,388
4 Claims. (Cl. 97—58)



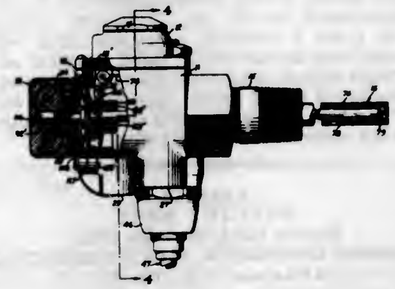
1. An adjustable disc garden cultivator, consisting of: a horizontally disposed yoke frame; a tubular frame member secured to said frame at an acute angle; a horizontally disposed sleeve secured to said frame; a fork member adapted for reciprocation within said sleeve; a rack disposed on said fork; a pinion operatively engaging said rack; a shaft supported by said tubular frame member and adapted to revolve said pinion; a crank for revolving said shaft positioned adjacent the upper end of said tubular frame member; two disc supporting shafts each of which is supported at its outer end by said yoke frame and supported at its inner end by said fork member; a plurality of disc cutters disposed for rotation on said shafts; and a handle secured to the upper end of said tubular frame member.

2,592,424

THERMOSTATIC CONTROL DEVICE

James H. Hurlbut, South Gate, and Charles R. Heininger, Stockton, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware

Original application January 14, 1946, Serial No. 641,037. Divided and this application January 26, 1950, Serial No. 140,728
3 Claims. (Cl. 236—48)



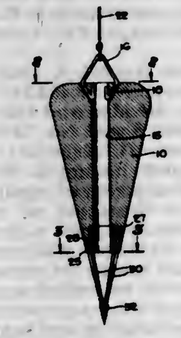
1. In a thermostatic control device, the combination of a casing having a control port formed therein, a flexible diaphragm closing said port, valve means for controlling fluid flow through said casing, thermally responsive means including an operating member disposed within said casing to be movable relative thereto, snap-action means for transmitting movement from said operating member to said valve means, said snap-action means including a thrust element mounted on said operating member for movement therewith, and an adjustable fulcrum element operatively engageable with one side of said diaphragm, and adjusting means operatively engageable with the other side of said diaphragm for adjusting the position of said fulcrum element relative to said thrust element to thereby set the temperature at which said snap-action mechanism will actuate said valve means.

2,592,425

PLUMB BOB

Oral K. Jackson, Montebello, Calif.

Application December 5, 1949, Serial No. 131,110
6 Claims. (Cl. 33—216)



4. A plumb bob having a body with an axial bore, arms on the lower portion of the body extending down toward a point axially beneath the bore, and means at the top of the body adapted to receive a string for supporting the plumb bob.

2,592,426

SOLDERING IRON

Max L. Jeffrey, Shaker Heights, Ohio

Application February 7, 1947, Serial No. 727,113
5 Claims. (Cl. 219—26)



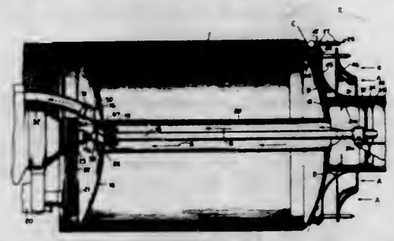
1. A soldering iron including a stainless steel housing, an insulating plug disposed in said housing adjacent an end, a stainless steel hollow core for said housing comprising a tubular member connected to said plug at one end of the housing, the other end of said core being formed with a circumferential bead, said housing having an inwardly extending wall adapted tto engage and support said core at the other end adjacent said bead, said core having an opening in one side at its mid portion, a threaded sleeve disposed in said opening and extending into an opening in said housing, means disposed in said sleeve and movable into said core, a soldering bit removably disposed in said core and adapted to be engaged by said means to hold it in position in the core and heating means disposed around the core inside the housing and electrically insulated from the core and thermally and electrically insulated from the housing.

2,592,427

AIR CLEANER FOR SPRAYING MACHINES

Thomas B. Keesling, Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application October 28, 1947, Serial No. 782,610
11 Claims. (Cl. 261—30)



1. In a spraying machine of the class described, an internal combustion engine equipped with an air intake, a spray nozzle, means for effecting the flow of spray material out of said nozzle, means for directing the spray material toward foliage to be sprayed, and structural means creating an air passage connected at one end to air intake and at the other with the zone in which said spray material is flowing whereby the air accepted by said intake is effectively washed by said spraying material.

2,592,428

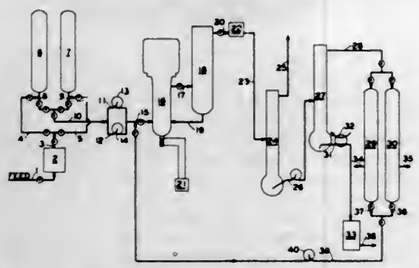
POLYMERIZATION OF PROPYLENE WITH LIQUID PHOSPHORIC ACID

Jacob D. Kemp, Richmond, and Lloyd F. Brooke, Berkeley, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application June 4, 1949, Serial No. 97,283
2 Claims. (Cl. 260—683.15)

1. A process for the polymerization of propylene characterized by the conversion of at least

50% of the propylene to liquid polymer in a single stage operation, said liquid polymer containing at least 50% of polymers boiling above about 350° F. which comprises maintaining a body of liquid phosphoric acid having a concentration in the range 103% to 116% orthophosphoric acid in a reaction zone, maintaining in the reaction zone a temperature in the range 225° F. to 300° F.



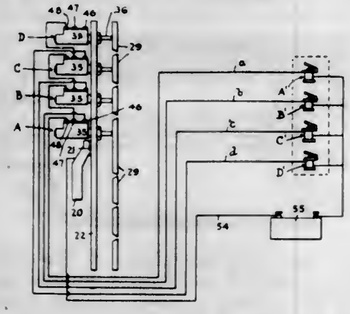
and a superatmospheric pressure above 200 p. s. i. a., passing a liquefied normally gaseous hydrocarbon material comprising a substantial proportion of propylene into the body of liquid acid in the reaction zone at a space velocity above 0.15 volumes of liquid propylene per volume of acid per hour and intimately mixing said hydrocarbon and acid in the reaction zone.

2,592,429

TARGET WITH ELECTRICAL INDICATING SYSTEM

Raymond T. Kimmel and James A. Woodson, Hutchinson, Kans.

Application December 18, 1948, Serial No. 66,064
3 Claims. (Cl. 273—102.2)



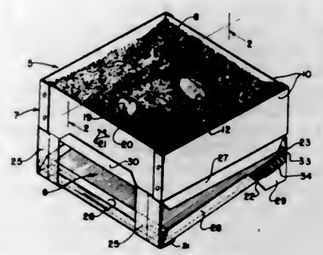
1. A target for use in association with an electric power source one terminal of which is connected to a recording device having a plurality of electrical paths, comprising a series of separate concentric rings, a backing plate on which each ring is separately mounted for limited reciprocal movement relative thereto, a switch including a casing supporting three insulated electrical terminals, a spring conductor within said casing running from one terminal to a point near but spaced from a second terminal, a pivoted conductor for controlling the operation of said switch, said pivoted conductor holding said spring conductor in contact with said second terminal when swung in one direction and itself maintaining contact with the third terminal when swung in the other direction, a movable rod provided with a shoulder and so positioned as to hold said pivoted conductor against said spring conductor and the latter in contact with said second terminal, and spring means engaging said pivoted conductor for biasing it toward contact with said third terminal, said switch being mounted on the backing plate behind each target ring with its movable rod projecting sufficiently forward to be struck by said target ring when it is forced backward, an electrical path leading to said pivoted conductor and adapted for connection to the opposite terminal of said power source, additional conductors leading from the separate electrical paths within said recording device to said second terminals of all but the outermost switch, an additional conductor leading from a separate electrical path within the recording device to the third terminal of the innermost switch, and conductors connecting the first terminal of all except the outermost switch with the third terminal of the switch corresponding to the outermost adjacent ring.

2,592,430

POULTRY NEST

Homer King, Orrville, Ohio

Application December 26, 1947, Serial No. 793,799
4 Claims. (Cl. 119—48)



1. A poultry nest comprising an egg-receiving compartment having an opening in the top wall thereof, a nest box on said top wall and having an apertured dished bottom portion conformably fitting the aperture in the top wall of the egg-receiving compartment, a padding within the nest box, and a decoy egg anchored for limited movement within the confines of the nest box.

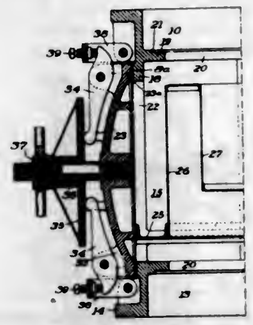
2,592,431

CLOSURE AND FASTENING MEANS

Selwyne P. Kinney, Crafton, and Louis M. Hartwick, Beaver, Pa., assignors to S. P. Kinney Engineers, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

Original application August 2, 1943, Serial No. 497,020, now Patent No. 2,455,181, dated November 30, 1948. Divided and this application November 16, 1946, Serial No. 710,376
3 Claims. (Cl. 292—55)

1. A manhole cover having a threaded post thereon and clamping levers of equal length pivotally supported on the cover at unequal distances from the threaded post, said levers being supported between their ends with outwardly extending arms of equal length for engaging clamping yokes and inwardly extending arms by which the levers may be operated, a pressure plate slidable on the post overhanging and bearing against the terminals of all of the inwardly extending arms, and a nut on said post bearing against the pressure plate for applying pressure thereto, any increment of movement of said plate thereby effecting equal increments of movement of all of said levers notwithstanding their unequal location from the threaded post, and means for adjusting any lever in the direction of its swing



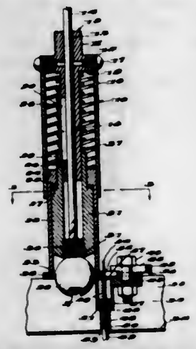
relatively to said plate and independently of any other lever.

2,592,432

CORRUGATION DRILLING TOOL

Paul C. Kline, Harry P. Crook, and Albert T. Van Cutsem, Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland

Application August 25, 1949, Serial No. 112,258
3 Claims. (Cl. 77—55)



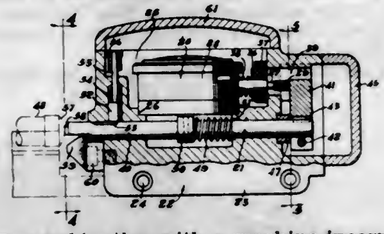
1. A tool for use with a drilling machine having a drill rotated by a chuck within a fixed housing comprising a bored drill guide adapted for attachment to the machine housing with the other end free and formed for protruded positioning of the drill, a sleeve member telescopically carried by the free end of said guide with stop means between the sleeve and guide limiting the telescopic movement therebetween with spring means urging the sleeve into an etxended position, a drill hole locator carried by the sleeve and provided with a centered aperture aligned with the drill bore, a transverse slot formed in said locator intersecting said bore and having opposed walls lying closely adjacent the path of said drill, said locator being provided with spherical engaging surfaces for engagement with the workpiece to be drilled, a second sleeve slidably fitted on the first-mentioned sleeve having a lower end retractable relative to the locator with cooperative spring and stop means associated with the second sleeve to normally position said lower end adjacent the locator, and a positioning member carried by the second sleeve having a planar surface radially extended to the side of and at right angles to the drill bore for engagement with the work piece to be drilled.

2,592,433

INDICATOR DIAL OPERATING MECHANISM

Robert N. Knosp, Ludlow, Ky., and Carl E. Linden, Cincinnati, and Frank O. Wetzel, Norwood, Ohio, assignors to The Fosdick Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio

Application August 7, 1947, Serial No. 767,120
11 Claims. (Cl. 33—125)



1. In combination with a machine incorporating a translatable table having a dog thereon, a support for the table having a trough disposed parallel with the path of movement of the table, the dial indicator mechanism mounted at the end of the trough and incorporating a supporting casing, a dial indicator mounted in the casing, said dial indicator including a stem projecting therefrom in a direction away from the end of the trough, a translatable rod mounted in the casing in axial alignment with the trough, said trough adapted to receive measuring rods between the dog and the end of the translatable rod, contact means on the end of the rod engaging the stem, spring means for urging said contact toward the stem under predetermined pressure, spacer means for limiting the movement of the contact means toward the stem, and cam means associated with the translatable rod for deflecting the end of the measuring rod therefrom and thereby to limit the movement of the rod and contact means away from the stem.

2,592,434

RADIOACTIVE MARKER

Shelley Krasnow, Arlington County, Va., assignor to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application April 10, 1942, Serial No. 438,475
3 Claims. (Cl. 102—92.5)



1. A projectile adapted to be fired into and to become lodged in a material so as to permit the subsequent detection thereof comprising a permanently magnetized portion, and a portion containing radioactive material, the magnetized portion serving at least in part as a support and enclosure for the radioactive material, thereby providing a projectile whose presence may be detected both by magnetic and by radioactive means.

2,592,435

DECOMPOSITION PRODUCT DEPOSIT REDUCTION

Antoine E. Lacomblé, New York, N. Y., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 14, 1949, Serial No. 93,419
8 Claims. (Cl. 252—51.5)

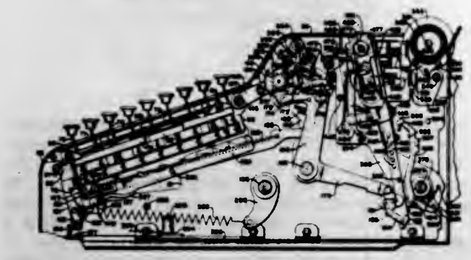
2. A lubricating oil composition comprising a

predominant amount of a mineral lubricating oil and a minor but effective deposit reducing amount of an oil-soluble aliphatic nitramine.

2,592,436
TRUE NEGATIVE TOTAL PRINTING MECHANISM

Harry L. Lambert, East Rochester, N. Y., assignor, by mesne assignments, to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application April 3, 1945, Serial No. 586,360
25 Claims. (Cl. 235—60.2)



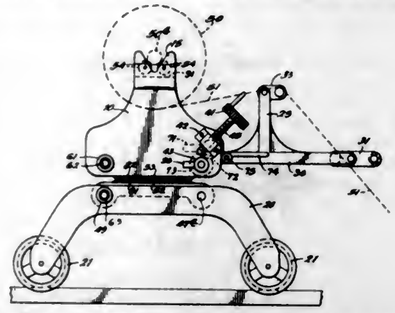
1. In a machine of the class described, the combination of a totalizer settable to represent the true value of a total when it is positive and the nines complement of a total when it is negative; a differential mechanism; means to control the operation of the totalizer and the differential mechanism to enable the differential mechanism to be displaced under control of the totalizer according to the amount of a positive total or according to the nines complement of the amount of a negative total; printing mechanism selectively operable to print the amount represented by the displacement of the differential mechanism or the complement of the amount represented by the displacement of the differential mechanism; and means controlled by the totalizer according to whether the total is positive or negative, and rendered operable when the totalizer controls the setting of the differential mechanism, for controlling the operation of the printing mechanism to print the amount corresponding to the displacement of the differential mechanism if the total on the totalizer is positive and to print the nines complement of the amount represented by the displacement of the differential mechanism if the total on the totalizer is negative, whereby the true amount of positive and negative totals will be printed.

2,592,437
CLOTH MATERIAL SPREADER

William E. La Pedus, Rockford, Ill.

Application December 16, 1948, Serial No. 65,628
1 Claim. (Cl. 270—31)

In a machine for carrying a bolt of cloth and spreading cloth in flat sheets therefrom, a frame member, a rotary member swivel-mounted on said frame comprising end plates and telescoping members joining the same, one of said telescoping members comprising a center portion and a pair of end portions telescoped there-within, a screw member mounted for rotation within said central member and provided with threads of opposite sense at its respective ends, a pair of nuts adapted to cooperate respectively with one of said threads, each of said nuts being respectively carried within and rigidly joined to one of said telescoping members, and means provided at one end of said screw member for manually rotating the same, whereby, on rotation of said screw member, said end telescoping members are moved

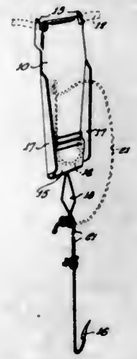


inwardly or outwardly from said central member, the position of said central member being unaffected by such rotation.

2,592,438
TROTLINE SNELL FASTENER AND HOOK SHIELD

Frederich H. Lawrenz, Dallas, Tex.

Application June 6, 1949, Serial No. 97,495
4 Claims. (Cl. 43—44.85)



1. As a new article of manufacture, a combined fastener and hook guard for trot lines comprising a substantially flat body portion having end portions reduced in width and turned back upon said body portion to define at its upper end a trot line clamp and at its lower end a clip, a right angular flange formed on each side edge of said body to overlie the open sides of said clip to thereby define a receptacle substantially closed except at the top thereof, swivel means releasably attached to said clip, and a fish hook attached to said swivel means by a flexible leader, said leader permitting the bight end of said hook to be aligned with said clip and inserted in said receptacle.

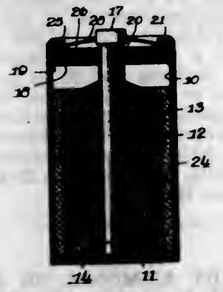
2,592,439
DRY CELL SEAL CLOSURE

Victor A. Lee, Niagara Falls, Ontario, Canada, assignor, by mesne assignments, to Burgess Battery Company, Freeport, Ill., a corporation of Delaware

Application September 14, 1949, Serial No. 115,642
4 Claims. (Cl. 136—133)

1. In a dry cell having an open-top metal cup, an electrode within said cup and spaced therefrom, and a closure of sealing composition for the open top of said cup and making sealing engagement with said cup and said electrode, the

improvement which comprises; the top portion of said cup projecting above said closure and being turned inwardly, a stiff apertured sheet-form cover for said closure through which said electrode projects, means for holding said cover in fixed position comprising a non-conductive layer



folded around and enclosing the outer peripheral edge portion of said cover and extending inwardly between said closure and said cover, said peripheral edge portion and said folded layer being pinched between said closure and said inwardly extending top portion of said cup.

2,592,440
ROCK DRILLING TOOL

Percill Liddicoat, Niagara on the Lake, Ontario, Canada, assignor to Thompson Products, Limited, St. Catharines, Ontario, Canada, a corporation of Ontario

Application June 26, 1946, Serial No. 679,493
2 Claims. (Cl. 255—63)



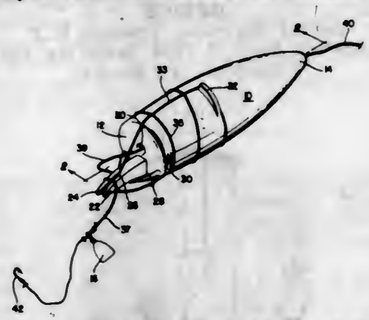
1. In a rock drill bit a member having a transverse cutting edge on an end face thereof with a central projecting portion arranged to cut a small diameter pilot hole in advance of the main hole, and said end face having a pair of reaming edges on opposite sides of said cutting edge and parallel thereto for enlarging the pilot hole, said reaming edges being in trailing relation to said central projecting portion of said cutting edge.

2,592,441
BOBBER FOR USE IN CASTING FOR FISH

Clissolde L. Louthan, Yucaipa, Calif.

Application April 3, 1950, Serial No. 153,679
6 Claims. (Cl. 43—43.11)

1. A casting bobber of the type intended for coaction with a sinker to enable a fisherman to cast the two as a unit and permit still fishing with the same at a point distant from the fisherman, comprising: a buoyant, substantially barrel-like float body with the addition of a tapered upper end, having an axially disposed bore therethrough, and having a flattened lower end; a prong at the lower end of said body and disposed substantially parallel to the bore of said body and at one side of said bore, said prong being bifurcated to form a pair of tines and a slot therebetween; said slot being tapering longitudinally of said body with its widest portion outward, said slot having such width at its narrow end as to frictionally secure a fishing line therein; a shielding lip formed as a continuation of the outer surface of said body, outward of and centrally positioned in respect to said prong and extending substantially to the inner end of said slot; and a plu-

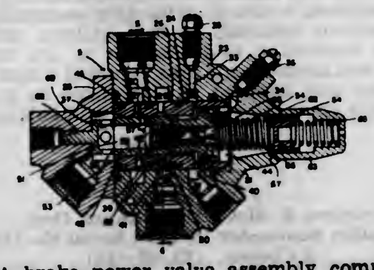


rality of line engaging lugs on said body adapted to form turning points for a line as the same is wound around said body.

2,592,442
POWER VALVE ASSEMBLY

Ludwig A. Majneri, Grosse Pointe, Mich., assignor to The Warner Aircraft Corporation, Detroit, Mich., a corporation of Michigan

Application November 27, 1944, Serial No. 565,358
8 Claims. (Cl. 137—153)



1. A brake power valve assembly comprising a valve housing having a chamber, an inlet port for connection with a source of fluid under high pressure, first and second outlet ports spaced from each other at one side of said inlet port, said inlet and outlet ports opening into said chamber, and a valve movable within said chamber between inoperative and operative positions and having a chamber communicating with the first outlet port and a port opening into said valve chamber for alternatively communicating with the second outlet port and said inlet port when said valve is in inoperative position and operative position respectively, said valve having a surface subject to fluid under high pressure entering through said inlet port to assist in moving said valve to operative position.

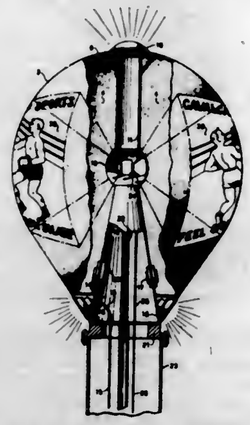
2,592,443
ALKYL ESTERS OF AMINOCARBOTHIOLIC ACIDS

Carl S. Marvel, Urbana, Ill., and Ralph E. Miegel, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 3, 1948, Serial No. 63,438
5 Claims. (Cl. 260—455)

5. An alkyl ester of a wholly aliphatic alpha-aminocarbothiolic acid in which ester the alkyl group is of one to eight carbons and the carbothiolic acid is of not more than ten carbons, has a hydrogen-free alpha carbon, and is, apart from the one amino and one carbothiolic group, saturated aliphatic hydrocarbon.

2,592,444
INFLATABLE AERIAL PROJECTION DISPLAY DEVICE
John J. Matelena, Trenton, N. J.
Application April 12, 1950, Serial No. 155,407
7 Claims. (Cl. 88—24)



1. An aerial display device comprising a gas-filled balloon, a transparent chamber positioned substantially centrally in said balloon, passage means connecting said chamber to the atmosphere, and projecting means mounted within said chamber and adapted and arranged to project an image upon the outer wall of said balloon.

2,592,445
FISH LURE
Severus E. McCarthy, Sitkum, Oreg.
Application September 15, 1949, Serial No. 115,806
3 Claims. (Cl. 43—41)



1. A fishing lure comprising an elongated transparent plastic block, initially square in cross section throughout the major portion of its length between its ends, said block being twisted throughout the major portion of said initially square cross section portion substantially 90° and having concave sides in such twisted portion, said block being divided into two parts, one part being hollowed to provide a bait or lure receptacle therein, the other part forming a threaded closure cooperating with the hollow receptacle member to readily seal the same whereby to preserve the fresh appearance of bait therein indefinitely, and means for securing a fish hook at one end of said block.

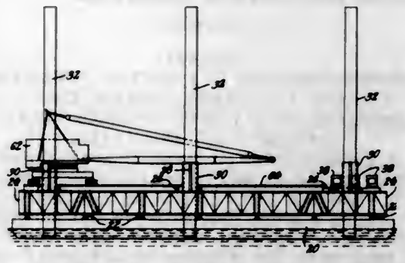
2,592,446
MODIFICATION OF SYNTHETIC ALPHA-AMINO ACID POLYMERS BY MEANS OF N-SUBSTITUTED ALPHA-AMINO ACID N-CARBOANHYDRIDES
Robert Neal MacDonald, New Castle, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 24, 1949, Serial No. 78,223
13 Claims. (Cl. 260—42)

11. Process for improving the water-absorptive capacity and dyeability from aqueous solutions of high molecular weight, orientable, film- and fiber-forming, linear alpha-primary monoamino monocarboxylic acid polymers, which polymers are, apart from the —NHCO— groups, hydrocarbon free from aliphatic unsaturation, which comprises bringing such a polymer in contact, in an inert solvent at a temperature of 25–160° C. with the N-carboanhydride of an N-monosubstituted alpha-amino acid, R'NH—R''—COOH, wherein R'' is a saturated hydrocarbon radical of one to six carbons and R' is a hydrocarbon radical of one to seven carbons, free from aliphatic unsaturation, and maintaining the reactants in contact for a time, between 4 and 48 hours, until 1–50% of N-monosubstituted alpha-amino acid units, based on the final product, is introduced into the polymer.

2,592,447
INITIATION BY AMMONIA OR AMINES OF AMINO ACID N-CARBO-ANHYDRIDE CONDENSATION POLYMERIZATION
Robert Neal MacDonald, New Castle, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 4, 1947, Serial No. 778,031
18 Claims. (Cl. 260—77.5)

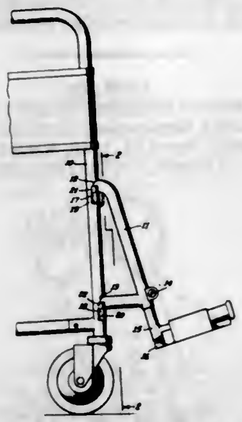
1. A process for the preparation of a linear amino acid polymer from the N-carbonanhydride of an amino carboxylic acid of radical length from 3 to 4 which comprises bringing said N-carboanhydride in contact with, as polymerization initiator, an amine having hydrogen on amino nitrogen as its only active hydrogen, having hydrogen and not more than one aromatic radical on at least one amino nitrogen, and having at most two hydrogen bearing amino groups, said amine being present in the amount of 0.001 to 1.0 mole per cent, based on the total N-carboanhydride present.

2,592,448
SPUD METHOD OF INSTALLING OIL WELL DRILLING BASES
William V. McMenimen, East Orange, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey
Application June 2, 1948, Serial No. 30,540
2 Claims. (Cl. 61—46)



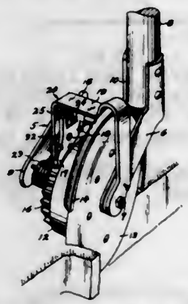
1. In the method of installing a platform at a selected off-shore site and at a predetermined elevation above the surface of a body of water, the steps of vertically supporting spaced-apart spuds in a platform, forcing said spuds downwardly against the bed of the body of water until the platform is raised to the desired elevation, driving piles to support the platform permanently at said elevation, securing the platform to the piles, then raising said spuds and removing them from the platform for re-use elsewhere, and leaving said platform and said piles in situ.

2,592,449
REMOVABLE FOOTREST FOR WHEEL CHAIRS
Jack Carleton Miller, Los Angeles, Calif., assignor to Everest & Jennings, Inc., Los Angeles, Calif., a corporation of California
Application November 20, 1950, Serial No. 196,639
5 Claims. (Cl. 155—165)



1. In combination with a wheel chair having upright forward legs, a footrest structure for each leg, pintles on the footrest structures, gudgeons on the legs in which the pintles are receivable, a knuckle on each leg and a knuckle on each footrest structure alignable therewith when each footrest structure is in a position extending forwardly from its leg, and a locking pin receivable in the aligned knuckles.

2,592,450
LAWN EDGER
Ingvald Mjelva, Seattle, Wash.
Application February 2, 1950, Serial No. 144,011
1 Claim. (Cl. 30—292)

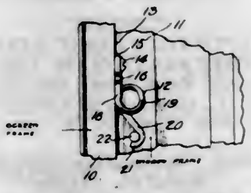


A foot-powered lawn edger comprising, in combination with a handle carrying a forked frame upon the working end thereof, cutting, ratchet and traction wheels made rigid, one with another, and carried by said forked frame for turning movement about a coinciding axis, a treadle-piece also carried by said forked frame for pivotal movement about the same axis and arranged in the use of the edger to swing reciprocally forwardly from and rearwardly to a nearly upright position, a pawl complement for the ratchet teeth of said ratchet wheel carried by the treadle-piece, and spring means yieldingly resisting said forwardly directed swing movement of the treadle-piece whereby when, pressure is exerted by the foot of the operator upon said treadle-piece so as to swing the latter forwardly from said nearly upright position it acts to press the cutting wheel into the lawn being edged and at the same time causes the cutting and traction wheels to turn by the motion transmitted from the pawl to the ratchet wheel.

2,592,451
VAPOR PHASE CORROSION INHIBITION
Robert J. Moore and Aaron Wachter, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application January 12, 1948, Serial No. 1,893
7 Claims. (Cl. 21—2.5)

1. In a method for inhibiting corrosion of a ferruginous metal occurring by contact with water vapor and air, the step of providing, in the proximity of a ferruginous metal, a vaporous atmosphere containing a corrosion-inhibiting amount of 2-nitro-thiophene.

2,592,452
WINDOW SCREEN HOOK
Richard S. Moore, Dallas, Tex.
Application May 15, 1950, Serial No. 162,119
1 Claim. (Cl. 292—87)

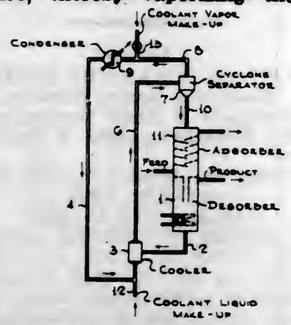


A new article of manufacture comprising a tension hook for holding a window screen frame from rattling upon a window frame, said tension hook having an anchoring eye at one end adapted to fit flat against one face of a window screen, an integral depending shank connected to said eye, a laterally extending portion carried by said shank, an inwardly extending portion connected to said laterally extending portion, thereby defining a laterally extending brace having a relatively broad abutment area to resist lateral twisting strain upon said eye of said hook, the brace extending laterally of the longitudinal axis of said shank, a coil carried by the extremity of said inwardly extending portion and arranged in alignment with the central axis of the anchoring eye in a plane at right angles to the anchoring eye, the coil terminating in an anchoring pin engaging tension arm, and said arm having an inturned pin engaging hook portion at the extremity of the arm and in the same plane as said coil.

2,592,453
TEMPERATURE CONTROL OF ADSORPTION SYSTEMS
Jerome P. Morgan, Maplewood, and John A. Patterson, Beverly, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application March 6, 1948, Serial No. 13,413
1 Claim. (Cl. 260—666)

In a process for separating cyclohexane from normal hexane in a countercurrent adsorption-desorption process, utilizing downwardly flowing fluidized silica gel in an adsorption zone and

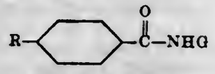
wherein hot desorbed silica gel is obtained at a temperature above that required for adsorption, the improvement which comprises the steps of contacting the hot silica gel with a sufficient quantity of liquid hexane to lower the temperature of the adsorbent to the desired adsorption temperature, thereby vaporizing the hexane;



utilizing the hexane vapors to transport the cooled fluidized silica gel suspended in said hexane vapors to an upper portion of the adsorption zone; separating the cooled fluidized silica gel from the hexane vapors; condensing the hexane vapors and utilizing this hexane condensate to contact additional quantities of hot desorbed silica gel.

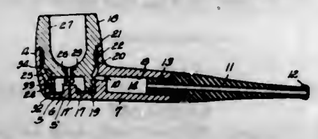
2,592,454
BENZOYLPOLYGLUTAMIC ACID AMIDES AND PREPARATION OF THE SAME
John H. Mowat, Pearl River, and Coy W. Waller, Nanuet, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 30, 1947, Serial No. 771,570
4 Claims. (Cl. 260—112)

1. Compounds of the group consisting of those having the general formula



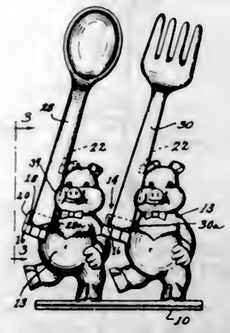
wherein R is a radical of the group consisting of amino, acetylamino, carbobenzoxyamino, hydroxyphenylazo, and nitro and —NHG is a polypeptide radical of glutamic acid, and the salts, esters, and amides thereof.

2,592,455
TOBACCO SMOKING PIPE
Reinhold H. Mueller, Jefferson City, and Gerald W. Fossieck, University City, Mo.
Application March 10, 1947, Serial No. 733,604
2 Claims. (Cl. 131—196)



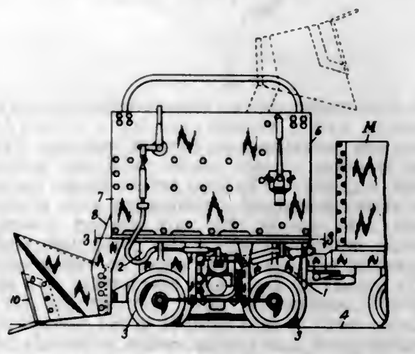
1. A removable tobacco bowl member for a smoking pipe comprising a bowl member having a tobacco cavity, a circumferential shoulder below the upper face of the bowl member providing a lower bowl portion of less diameter and having its outer wall downwardly and inwardly curved and provided with a circumferential groove adjacent the shoulder the remainder of the lower end of the bowl member being cylindrical with its outer wall having a plurality of vertically spaced circumferential grooves, the grooved lower end portion of the bowl member having a straight walled cavity open to the bottom face of the bowl member, and a metallic tube carried centrally of the bowl member communicating at its upper end with the tobacco cavity and at its lower end with the straight walled cavity, and a heat resisting friction band receivable in the aforesaid circumferential groove adjacent the circumferential shoulder.

2,592,456
CHILDREN'S DOMESTIC UTENSIL SET
Eoina Nudelman, Chicago, Ill.
Application April 23, 1949, Serial No. 89,195
1 Claim. (Cl. 211—60)



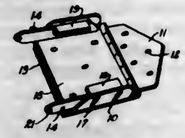
A children's domestic utensil set comprising a base, at least one toy character supported on said base, said toy character having a projecting platform adapted to support a feeding utensil resting on one end thereof, a plurality of projections extending laterally, at least two of said projections being in the same vertical plane and at least one of said projections being in a plane spaced from said last mentioned projections so as to engage said utensil on opposite sides thereof and to retain same in a vertical plane between said projections.

2,592,457
ADJUSTABLE STOP AND LOCKING DEVICE FOR SHOVEL LOADERS
Robert C. Osgood, Claremont, N. H., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Application December 30, 1944, Serial No. 570,548
7 Claims. (Cl. 214—132)



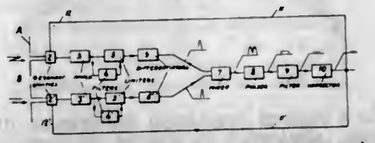
1. In a material-loading apparatus, the combination with a base and a superstructure carrying loading means and swiveled on said base to swing horizontally with respect thereto, of stop means for variably limiting the range of lateral swing of said superstructure in one direction with respect to said base comprising spaced abutments on said base disposed at relatively different distances from the longitudinal median line of said base at one side of the latter, spaced openings in said superstructure, and a shiftable stop element insertible in one or another of said openings for selective engagement with said spaced abutments.

2,592,458
SKI BINDING
William Pepin, Beebe, Quebec, and Joseph Arthur Rodrigue, Stanstead, Quebec, Canada
Application March 16, 1949, Serial No. 81,678
1 Claim. (Cl. 280—11.35)



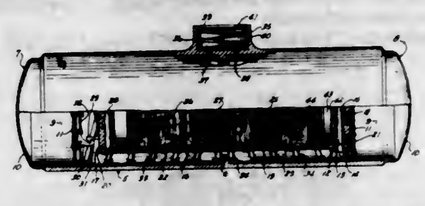
A ski binding comprised of a base plate having a hinged forward portion adapted to be attached to a ski, side members each provided with lower horizontal flange having a plurality of apertures for selective adjustment on the base plate, and each having an oppositely disposed perpendicular flange having slots therein angularly inclined towards said forward portion, a top plate adapted to overlie the lower flanges of said side members, rivet means securing said top and bottom plates and said side members in related assembly for pivotal movement as a unit about said hinge, and gripping elements, each comprised of a horizontal flange and a vertical flange, the vertical flange of each being provided with a pair of headed studs engageable in said inclined aperture, and said horizontal flange of the gripping element comprising a boot-sole gripping element.

2,592,459
RADIO SYSTEM FOR DISTANCE MEASUREMENT
Pierre André Perilhou, Clamart, France, assignor to Office National d'Etudes et de Recherches Aeronautiques, Paris, France, a company of France
Application September 24, 1948, Serial No. 51,030
In France September 25, 1947
8 Claims. (Cl. 343—106)



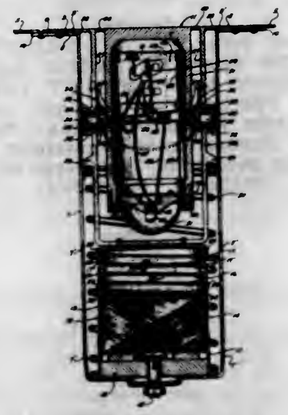
1. In a system for distance measurement comprising means for transmitting from one point a beam of radiant energy adapted to rotate in azimuth, means for receiving said beam at another point, said latter means comprising at least two independent aerials spaced transversely and symmetrically with respect to a straight line joining the two points, means for combining the effects of reception of said beam by said aerials so as to provide an indication of distance by a value of a current voltage depending on the time spacing of equivalent phases of said effects of reception and means for controlling the level of reception of said energy receiving means in response to the value of said current or voltage to maintain said level substantially independent of distance.

2,592,460
RETRIEVER FOR SUBMERGED ARTICLES
Layton E. Perkins, Milwaukee, Wis.
Application December 1, 1949, Serial No. 130,419
9 Claims. (Cl. 9—9)



1. A retriever comprising: a tubular body; a pair of buoys; releasable connection means connecting said buoys and normally maintaining said buoys in engagement with said body, said means including a release member having a portion which is disintegratable when acted upon by water to cause release of both of said buoys; and a line extending through said tubular body and connected at each end to a separate one of said buoys, said line having a normally compacted portion between its ends.

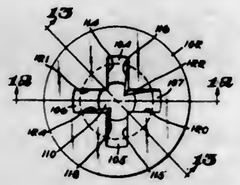
2,592,461
AIRCRAFT CRASH MARKER
Layton E. Perkins and Gilbert C. Gettelman, Milwaukee, Wis.; said Gettelman assignor to said Perkins
Application November 30, 1950, Serial No. 198,437
14 Claims. (Cl. 9—9)



1. A marker assembly comprising: an electrically operated signalling device; a housing within which said signalling device is normally positioned with the signalling device in inverted position; said signalling device having a signalling element, having a battery, having an electrical circuit connecting said signalling element and battery, and including a switch having gravity actuated contact means which is operable to close the circuit to said signalling element only when the signalling device is in upright position; means including a member releasable when submerged in water in response to the action of

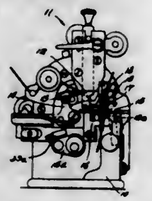
water thereon for releasably maintaining said signalling device within said housing, and means for causing the signalling device to assume an upright position following release.

2,592,462
RECESSED HEAD FASTENER
Harvey F. Phipard, Jr., South Dartmouth, Mass., assignor to Research Engineering & Manufacturing, Inc., New Bedford, Mass., a corporation of Massachusetts
Application September 11, 1951, Serial No. 246,119
4 Claims. (Cl. 85—45)



1. A socket head fastener of the kind described having a central axial socket extending longitudinally in the head and a plurality of radially extending recesses opening from said axial socket and terminating within the periphery of the head, each recess being formed with one wall face parallel to a radial plane including the axis of the fastener and arranged to receive a substantially perpendicular thrusting torque from a driving element, the opposite wall of each recess being formed with a portion slightly inclined with respect to said plane extending inwardly and downwardly and directly opposite said one wall face to constitute a wedging surface to force and maintain the driving element in contact with said thrusting wall.

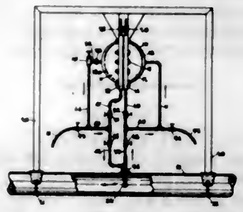
2,592,463
MACHINE FOR CUTTING, PROCESSING, AND/OR SEAMING FABRIC OR LIKE SECTIONS AND PRODUCT THEREOF
Stanley H. Phillips, Stratford, Conn., assignor to The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut
Application October 10, 1946, Serial No. 702,460
10 Claims. (Cl. 112—2)



2. An article of apparel comprising a plurality of sections of thin thermoplastic sheeting of cloth-like flexibility; and stitches forming seams joining together adjacent edges of the said sections substantially in abutting relationship, the said edges being fused together to increase the strength of the seam.

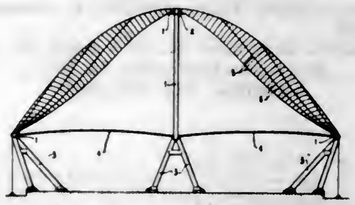
6. In a sewing machine, the combination with stitch-forming means including a needle, of a cutter mounted ahead of the needle for trimming workpieces fed to the needle; and a thermal device disposed between the cutter and needle for fusing the trimmed edges of thermoplastic fabric workpieces fed to the needle.

2,592,464
CONTINUOUS PROPORTIONAL SAMPLER
Norris Plank, East Chicago, Ind., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application December 7, 1948, Serial No. 63,864
3 Claims. (Cl. 73—422)



1. A device for continuously sampling a fluid flowing in a pipe line, comprising pitometer means in said pipe line for producing a pressure differential in the pipe line proportional to the rate of flow therein, a fluid-tight sample container, pressure-responsive movable partition means dividing said container into two pressure chambers, valve controlled conduit means in communication between one of said pressure chambers and the upstream side of said pitometer means, valve controlled conduit means in communication between the other pressure chamber and the downstream side of said pitometer means, flow restricting means in one of said conduit means, normally closed first and second valved bleed conduits through the wall of said container near the top thereof and in communication between said two pressure chambers and the space outside said container for bleeding gases therefrom, and normally closed valve controlled fluid outlet means in the wall of said container and leading from said upstream pressure chamber for removing a fluid sample therefrom.

2,592,465
ROOF
Henri Maclaine Pont, The Hague, Netherlands
Application July 8, 1947, Serial No. 759,585
In the Netherlands March 5, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires March 5, 1961
2 Claims. (Cl. 108—1)



1. In a roof of large span comprising, in combination, abutment structures disposed at the corners of the space to be roofed, curved rafters mounted on one of their ends on the abutment structures and having their opposing ends inclined upwardly and connected together, the rafters having their concave sides facing inwardly, eaves-cables provided around the roof space and connected to the abutment structures, networks mounted on the rafters and including crossed wires having interengaging U-shaped bends formed at their crossed points, an annular member formed by a helically wound wire provided around each of the interengaging bends, said networks being disposed in the roofing

planes between the rafters and the eaves-cables and keeping the latter bent upwards, said roofing networks being adapted to directly support a roof covering, said rafters, said eaves-cables and said roofing networks defining a balanced umbrella structure.

2,592,466
PROCESS FOR THE PREPARATION OF PASTE WAX
Robert W. Pressing, Grant P. Lawless, and Bradley J. Pettibone, Racine, Wis., assignors to S. C. Johnson & Son, Inc., Racine, Wis.
No Drawing. Application September 23, 1948, Serial No. 50,872
12 Claims. (Cl. 106—271)

1. The process of making a paste wax composition comprising placing wax and solvent in solution at a temperature of at least 145° F., cooling said solution while in a condition of streamline flow to a temperature slightly above the solidification point of said solution before introducing said solution into containers.

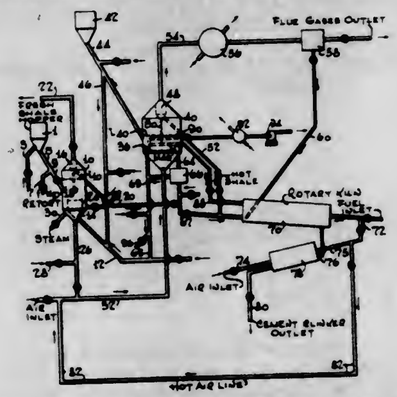
2,592,467
RECIPE CARD HOLDER FOR STOVES
Herbert M. Reeves, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application December 30, 1947, Serial No. 794,761
1 Claim. (Cl. 211—50)



The combination with a sheet metal panel having an inwardly turned horizontally disposed marginal flange shaped to present an upwardly opening channel spaced inwardly from the panel, of a card holder comprising an elongated strip forming the rear wall of a card retaining pocket, integral flanges on the side and bottom edges of said strip forming side and bottom walls for said pocket, said side flanges having their end portions turned inwardly substantially parallel to the strip to form a partial front wall for said pocket, the upper edge portion of said strip being extended forwardly over said pocket and terminating in a downwardly turned lip and adapted to engage in said channel to detachably support the holder in suspended relation from the panel flange, the flange at the bottom edge of said strip having a width substantially greater than the combined widths of the forwardly extended upper edge portion of the strip and the portion of the marginal flange between said channel and the panel to enable it to engage the panel and thereby restrain the holder against swinging movement relative to the panel.

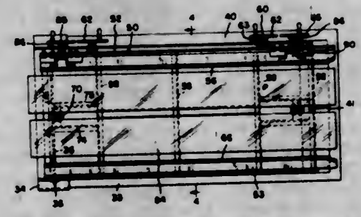
2,592,468
MANUFACTURE OF CEMENT
Walter A. Rex and Chester L. Read, Westfield, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application December 6, 1947, Serial No. 790,076
13 Claims. (Cl. 106—100)

1. The method of manufacturing cement from oil shale containing silica, alumina and iron oxide in proportions suitable for cement manufacture, which comprises subjecting coarsely crushed fresh oil shale in the form of a dense turbulent mass of subdivided solids fluidized by an upwardly flowing gas to distillation at a distillation temperature in a distillation zone, withdrawing volatile distillation products from said distillation zone, withdrawing spent carbonaceous shale residue from said distillation zone, circulating said residue to a heating zone, maintaining said residue in said heating zone in the form of a dense turbulent mass fluidized by an upwardly flowing gas, subjecting a portion of the carbonaceous constituents of said residue to combustion in said heating zone to heat the solids therein to a temperature between about 1100° and 1800° F. but higher than said distillation temperature, circulating solids from said heating zone to said



distillation zone substantially at said higher temperature to supply heat to said distillation zone and to close a cycle of solids circulation, maintaining said shale in said cycle for a time sufficient to form substantial proportions of shale fines having a particle size suitable for cement manufacture, mixing said fines highly heated by said combustion with finely divided limestone by adding the latter to said heating zone in amounts and having a particle size suitable for cement manufacture, separating a mixture of fines and limestone from coarser particles circulating in said cycle, passing said mixture substantially at said higher temperature to a cement making zone, and subjecting said mixture to a burning and sintering treatment in said cement-making zone at cement-making conditions.

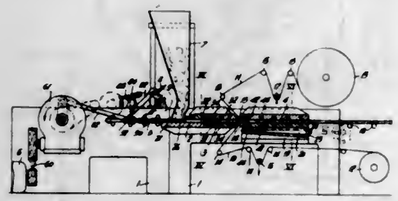
2,592,469
ADJUSTABLE FEED TABLE FOR ROLLED SHEET STOCK
Bert E. Rockhoff, Grosse Pointe Farms, Mich., assignor to Detroit Steel Products Company, Detroit, Mich., a corporation of Michigan
Application February 16, 1948, Serial No. 8,716
11 Claims. (Cl. 271—2.6)



1. A strip guide for use between rolled metal strip and a forming device adapted to form con-

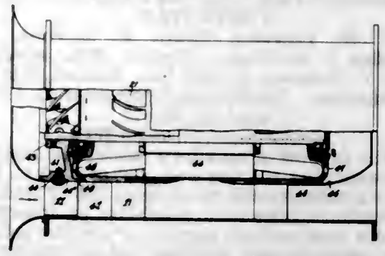
tinuously advancing strip, said guide comprising a stationary support, a continuous rigid guide trough on said support, independently operable adjusting means adjacent each end of said guide trough extending between said support and said guide trough and effective to provide for relative lateral adjustment between said support and said guide trough, and relatively slidable means operatively connected to the ends of said guide trough and said support interfitting to permit lateral sliding movement of the ends of said guide trough on said support while preventing relative longitudinal movement and separation between said support and said guide trough.

2,592,470
MACHINE FOR MANUFACTURING FIBERBOARDS
Nils Ryberg, Stockholm, Sweden
Application August 31, 1948, Serial No. 47,060
8 Claims. (Cl. 154—1)



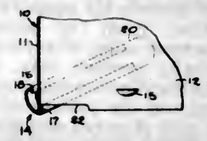
1. A machine for the manufacture of boards for building purposes from a long-fibred vegetable raw material comprising in combination a machine frame including upper and lower wall members for bounding an open-ended flat channel for receiving portions of said raw material at intervals, a plunger reciprocable into and out of said channel for introducing a portion of fibrous material at a time into the channel and compacting it therein as well as feeding it therethrough, a feed hopper for supplying the fibrous raw material onto said lower wall member in front of the inlet opening of said compacting channel, means in connection with said hopper for positively feeding a portion of raw material in said hopper towards said lower wall member during the return stroke of the plunger, a knife edge provided at the front end of said upper wall member on a level with the lower surface of said wall member for severing the portion of fibrous material in front of the plunger, when the operating end of the plunger reaches the inlet of the channel during its operating stroke, other upper and lower wall members provided in alinement with those of the compacting channel for constituting a channel for receiving the compacted material from the compacting channel, heating elements in said other upper and lower wall members for heating the compacted material between said wall members to a sufficiently high temperature for causing the natural binding substances of the fibrous material to act as a binding agent between the fibers, a third set of upper and lower wall members for constituting a channel in rectilinear extension of the next preceding channel, heating means in said third set of upper and lower wall members, means in front of said third set of wall members for applying a web of flexible material to the upper and lower surfaces of the compacted fibrous mass while passing between the second set of wall members and the third set of wall members, and means for adjusting the position of the lower wall member of the third set of upper and lower wall members in the vertical direction with respect to the upper wall member for changing the thickness of the fibrous product passing therebetween.

2,592,471
AXIAL FLOW FAN
James G. Sawyer, Buffalo, N. Y.
Application August 22, 1946, Serial No. 692,207
7 Claims. (Cl. 230—122)



1. An axial flow blower, comprising means forming a duct, a runner section disposed therein having a plurality of blades thereon spaced to define fixed passages therebetween, a stationary guide section disposed in said duct in axially-spaced adjacent relation to said runner section and having a plurality of vanes thereon spaced to define fixed passages therebetween, the runner blades being curved to form a concave advancing face and a convex retreating face with respect to the direction of rotation of said runner section and said guide vanes being curved with their convexity and concavity opposed to the convexity and concavity of said blades, the rate of change of width of the passage between adjacent blades with respect to the change of length of the blades' camber line being reduced linearly from its initial value at the blades' leading edge to 70% of said initial value at the blades' trailing edge, and the ratio of the blades' camber line radius to the width of the passage between blades varying linearly from approximately 3.0 at the leading edge to approximately 4.0 at the trailing edge.

2,592,472
SHEET METAL ARTICLE AND MOLDING STRIP ASSEMBLY
Joseph W. Schlaf, Kankakee, Ill., assignor to Florence Stove Company, Gardner, Mass., a corporation of Massachusetts
Application August 3, 1948, Serial No. 42,236
3 Claims. (Cl. 189—34)

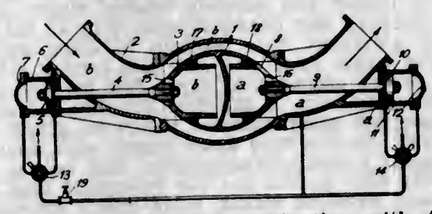


1. The combination with an open ended shell of sheet metal or the like having upright side and end walls with exposed lower free edges and retaining elements on said walls defining outwardly directed upwardly facing ledges spaced from the free edges of said walls, of a moulding strip of channel cross section having an intermediate portion of substantially the same length as the side wall of the shell and rearwardly turned end portions slightly shorter than the end walls of the shell, said strip having a lower inturned flange throughout substantially its entire length hooked under the free edges of the end walls and one side wall of the shell, and an upper inturned flange extending substantially the entire length of said strip and engaged with said ledges, the lower edges of the side and end walls of the shell being cut away at the corners formed by the walls to provide clearance for the moulding strip in its assembly with the shell.

2,592,473
MODIFICATION OF LINEAR POLYAMIDES WHOSE AMIDE GROUPS ARE SEPARATED BY AT LEAST 4 CARBONS WITH N-CARBOANHYDRIDES OF ALPHA AMINO ACIDS
Allan K. Schneider, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 21, 1949, Serial No. 88,899
4 Claims. (Cl. 260—42)

3. A process for improving the dye receptivity of linear polyamides with recurring intralinear —CONH— groups which are separated by carbon chains of at least four carbons which comprises heating the same in a structural form having one dimension large relative to at least one other at 25–160° C. for 15 minutes to 24 hours with the N-carboanhydride of an alpha-amino alkanoic acid hydrocarbon except for the amino nitrogen, hydrogen thereon, and the carboxyl, wherein the alkanoic acid is of two to seven carbons, the amino group contains hydrogen on the amino nitrogen, and the amino alkanoic acid contains in the amino group not more than seven carbons.

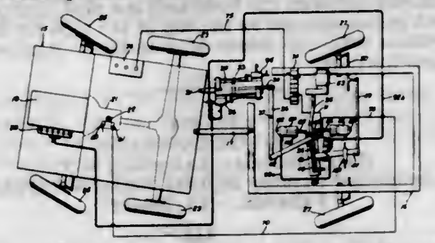
2,592,474
TWIN PLUNGER VALVE
Ottmar Schnyder, Klus, near Balsthal, Switzerland, assignor to Gesellschaft der Ludw. von Roll'schen Eisenwerke A. G., Klus, Switzerland
Application November 16, 1945, Serial No. 629,099
In Switzerland November 16, 1944
1 Claim. (Cl. 137—144)



In a ring valve, in combination with two coaxially disposed separate and independently actuated cut-off means and a common casing for both of said means, the said casing having the form of a surface of revolution, means for independently actuating each of said cut-off means, the actuating means of the downstream cut-off means being hydraulic, said downstream cut-off means and its hydraulic actuating means being demountable from the casing together for overhauling purposes when the upstream cut-off means is actuated to closing position, without the necessity of draining the pressure line.

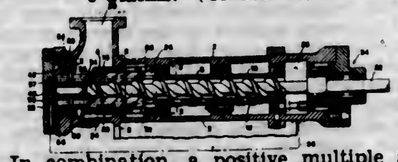
2,592,475
TRAILER STEERING MECHANISM
Otty James Seely, Olidale, Calif., assignor of thirty per cent to R. N. Lancaster, Bakersfield, Calif.
Application April 5, 1949, Serial No. 85,507
22 Claims. (Cl. 280—33.55)

15. In combination with a towing vehicle and a towed vehicle having steerable wheels, a tilt bar supported by the towed vehicle for bodily pivotal movement about a point intermediate the ends of the tilt bar and being connected to the steering wheels of the towed vehicle for turning the steering wheels of the towed vehicle when the tilt bar is tilted, means connected to the tilt bar and operable by misalignment of the vehicles



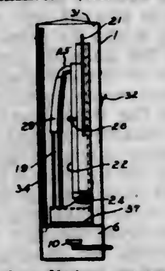
for urging the tilt bar to bodily turn, said means being movable with respect to the tilt bar from one side of the tilt bar to the other side to cross over the pivot point thereof, and means operable by shifting of the vehicles from forward to reverse or vice versa for causing a changeover of the first-named means from one side of the tilt bar to the other.

2,592,476
SERIES ARRANGEMENT OF POSITIVE AND NONPOSITIVE SCREW PUMPS
Morgan B. Sennet, Trenton, N. J., assignor to De Laval Steam Turbine Company, Trenton, N. J., a corporation of New Jersey
Application February 7, 1948, Serial No. 6,932
6 Claims. (Cl. 103—5)



1. In combination, a positive multiple screw pump, and a non-positive multiple screw pump having at least one screw in common with the positive pump, said pumps being staged with the non-positive pump delivering its output to the positive pump, the non-positive pump having a theoretical delivery in excess of that of the positive pump and thereby serving to provide at the inlet of the positive pump a pressure higher than its own inlet pressure.

2,592,477
RADIATOR CLEANING APPARATUS
Charles B. Shanaman, Clarksburg, W. Va.
Application July 24, 1946, Serial No. 685,963
4 Claims. (Cl. 134—106)



3. A combined radiator support and circulating unit comprising a rack for removable insertion within the tank of a radiator cleaning apparatus

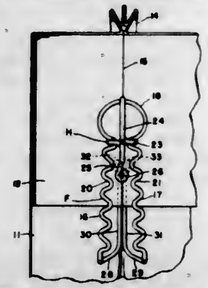
comprising an upright body, radiator supporting means carried by the body, a boiler chamber carried by and projecting horizontally at the front of the body and provided with an inlet for communication with the tank, an upright exit pipe carried by the boiler and rising therefrom and spaced in front of the body so as to receive a radiator between the body and the pipe, and conduit means carried by the top of the pipe for connection with the drain of a radiator supported upon the rack.

2,592,478

HOOK FOR CURTAINS

Harry Sherman, Laurelton, N. Y.

Application October 26, 1950, Serial No. 192,234
3 Claims. (Cl. 24—84)



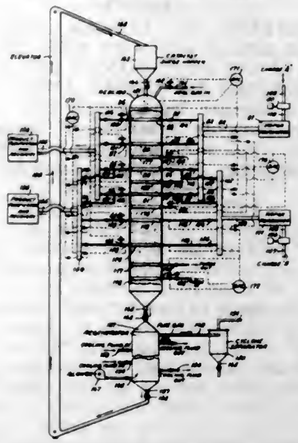
1. An adjustable drapery hook appliance including a drapery contacting generally U-shaped frame having substantially parallel legs joined at one end by a bowed resilient portion acting to bias the legs laterally outwardly from each other, the legs being movable toward each other by inward pressure applied to the free ends thereof, each of the legs having a series of stops at regular intervals along the same projecting laterally outwardly therefrom, the stops of both legs extending in a common plane with the legs, and the stops of one leg being disposed opposite the stops of the other leg, said U-shaped frame having means extending laterally from its lower end and thence upwardly longitudinally of the U-shaped frame at one side thereof in spaced relation therewith to engage an upper portion of a drapery, and a rod-attaching member including a transversely extending elongated loop member slidably embracing the legs of the U-shaped frame, and a rod-engaging hook member carried by said loop member having a shank portion integral with and extending longitudinally upwardly from one side of said loop member centrally of the ends thereof parallel to and to one side of the plane of said legs, and a part extending laterally and downwardly from the upper end of said shank portion, said hook member being disposed at that side of the U-shaped frame opposite the side thereof at which said drapery engaging means is located, the ends of the loop member being of a size in cross section to seat between pairs of the laterally projecting stops of said legs inwardly of the outer ends of the stops, and the loop member being slidably adjustable along the legs of the U-shaped frame when the legs are pressed inwardly toward each other, said loop member being engaged between opposite pairs of the stops on the legs when the legs are relieved of inward pressure and spring apart, the stops providing for positively supporting the loop member with the hook member carried thereby in different positions of adjustment along the legs of the U-shaped frame against movement in either direction longitudinally of the U-shaped frame.

2,592,479

CATALYTIC CONTACTING TOWER

Edward L. Sinclair, Manhasset, N. Y., and William A. Hagerbaumer, Westfield, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

Application February 12, 1946, Serial No. 647,176
7 Claims. (Cl. 23—288)



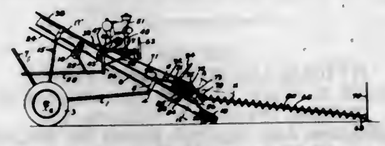
6. An apparatus for conducting two or more conversions of hydrocarbons in the presence of the same moving stream of particle form solid contact mass material comprising: an elongated reaction chamber of substantially constant cross section, means to supply contact mass material to the upper end thereof and means to withdraw it from the lower end thereof, flow throttling means associated with said withdrawal means, at least four fluid reactant handling means within said chamber, all spaced apart along the length of said reaction chamber, a first external reactant inlet header and separate conduit means communicating said header directly with all but the two lowermost fluid reactant handling means, valve means associated with said conduit means to permit exclusion of vapor flow between said header and any of the fluid handling means in vapor flow communication therewith, a first external reactant fluid outlet header and separate conduit means communicating said header directly with all but the two lowermost fluid reactant handling means, valve means associated with said last named conduit means to permit exclusion of vapor flow between said outlet header and any of the fluid handling means in vapor flow communication therewith, a second external fluid reactant inlet header and separate conduit means communicating said header directly with all but the two uppermost reactant fluid handling means, valve means associated with said last named conduit means to permit exclusion of vapor flow between said second inlet header and any reactant handling means in vapor flow communication therewith, a second external fluid reactant outlet header, and separate conduit means communicating said header directly with all but the two uppermost reactant fluid handling means, valve means associated with said last named conduit means to permit exclusion of vapor flow between said second fluid outlet header and any reactant handling means in vapor flow communication therewith, flow regulating valves on at least all of said separate conduit means which communicate said first and second outlet headers with the fluid reactant handling means intermediate the uppermost and lowermost handling means, a differential pressure control device associated with said flow regulating valves adapted to actuate said flow regulating valves so as to maintain equal pressures in any given two of said intermediate fluid reactant handling means, gas inlet pipes connected into said chamber near each end thereof, instrument operated flow control valves on said pipes, a differential pressure controller operatively connected to said valves to operate the same responsive to changes in pressure differential between the end sections of said chamber and the portions occupied by said fluid handling means.

2,592,480

PORTABLE CONVEYER AND GATHERER FOR GRAIN

Arthur G. Slocum, Ensign, Kans.

Original application February 20, 1947, Serial No. 729,867. Divided and this application September 17, 1948, Serial No. 49,804
5 Claims. (Cl. 198—9)



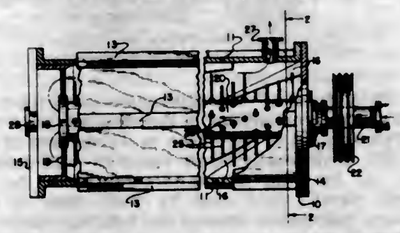
1. A portable conveyor of the class described, comprising a wheeled frame having a conveyor tube mounted thereon and adjustable relative thereto to assume different angles of inclination, a main worm rotatably mounted within the conveyor tube and projecting from the lower end thereof to engage and receive the materials to be conveyed through the conveyor tube for discharge from the upper end of the latter, a motor also carried by the frame and operatively connected with the main worm for driving the same, power transmission means mounted on the lower end of the conveyor tube, and an auxiliary worm supported by and operatively universally connected to said transmission means and extending to a point substantially in advance of the main worm for gathering and dragging the materials towards the receiving end of the main worm, said transmission means being operatively connected with the motor which drives the main worm and being operable to render the auxiliary worm inoperative independently of the main worm for driving the auxiliary worm through the universal connection aforesaid.

2,592,481

FIBER BEATER FOR THE LIBERATION OF CELLULOSE FIBERS

Arthur M. Spencer, Santa Fe, N. Mex., and Abner Jacobson, Cleveland, and Karl Sixt, East Cleveland, Ohio

Application June 18, 1948, Serial No. 33,697
3 Claims. (Cl. 92—22)



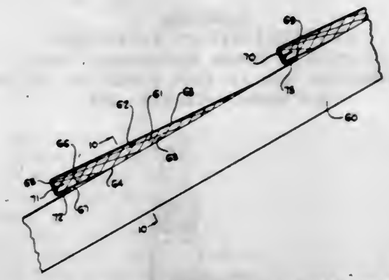
1. A fiber beater comprising a tank, a hollow cylindrical shaft rotatably mounted therein, a plurality of flexible whips radially mounted on said shaft extending into the hollow interior of said shaft, as well as outwardly toward the walls of said tank, one end of said shaft extending outwardly of the tank and forming an inlet for fiber suspended in liquid and the other end of said shaft being open and terminating inside of the tank close to one end, with an outlet near the opposite end of the tank.

2,592,482

BERMUDA TYPE METAL SHINGLED ROOF

Charles F. Sperry, Burbank, Calif., assignor, by mesne assignments, to Hayward C. Thomas, Pasadena, Calif.

Application March 3, 1947, Serial No. 731,966
2 Claims. (Cl. 108—13)



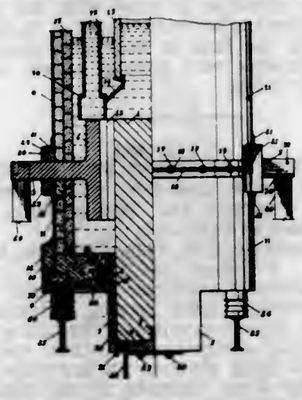
1. A roof having sheathing applied to a flat sloping surface in the construction of the roof, the sheathing presenting a flat upper surface and a flat lower surface converging upwardly therewith which is positioned directly against the first-named flat sloping surface, adjacent sheathing members being spaced from one another, the undersurface of the sheathing adjacent its lower edge being parallel to the upper surface thereof and spaced from said first-named flat sloping surface forming a downwardly open recess therewith, and metal shingles covering the sheathing.

2,592,483

ELECTROLYTIC CELL

Frank E. Smith and Herbert B. Williams, Niagara Falls, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

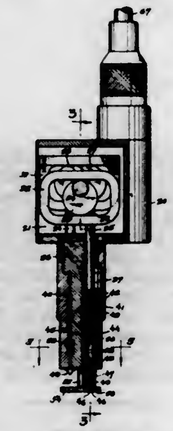
Application April 27, 1949, Serial No. 89,866
5 Claims. (Cl. 204—243)



1. A fused salt electrolysis cell comprising a circular, horizontally disposed steel base plate,

an anode-receiving steel socket set in said plate and extending below the bottom side thereof, a cylindrical graphite anode set in said socket and electrically connected thereto by means of a molten metal seal, said anode extending upwardly into a zone of electrolysis, an annular steel cathode in said zone and surrounding said anode, a cylindrical, refractory-lined, steel shell having a diameter less than that of said plate, and surrounding said cathode, the lower edge of said shell being spaced above the top of said plate, said plate having at its periphery an upstanding steel flange extending above the bottom of said shell, a refractory insulating seal in the annular space between said flange and the lower part of said shell, and a copper conductor fastened to the exterior of said anode socket.

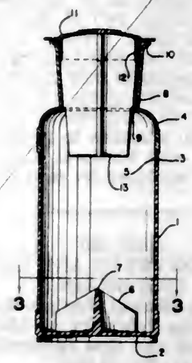
2,592,434
POWER-DRIVEN TWEEZER
Moreton A. Smith, Bremerton, Wash.
Application June 15, 1946, Serial No. 676,958
26 Claims. (Cl. 128—354)



1. A power-driven tweezers comprising a casing, a block mounted for reciprocatory sliding movement within the casing, means for powering the block in said reciprocatory movement, two relatively movable and spring-closing jaws carried by said block, a stationary cam for opening said jaws and engageable by the jaws at the rear extreme of the block's reciprocation, holding means arranged to move with the jaws during the following forward stroke of reciprocation for holding the jaws in said open position, and means releasing said holding means to permit the jaws to close.

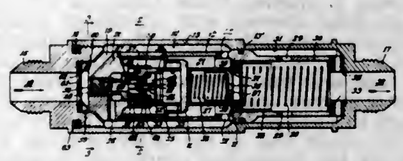
2,592,485
CONTAINER AND MIXER FOR BEVERAGES
Carlyle B. Stair, Glendale, Calif., assignor to Prestige Products, Inc., Beverly Hills, Calif., a corporation of California
Application April 24, 1950, Serial No. 157,782
5 Claims. (Cl. 259—72)

1. A combined container and mixer for preparing beverages from frozen, condensed fruit juices and other concentrates, including a bottle like container comprising a bottom wall, a side wall, and a neck portion, an inwardly projecting annular ledge disposed at the juncture of said neck portion with said side wall, a removable, multi-vaned mixing element on said ledge and projecting therefrom into the interior of said container and a removable cover adapted to



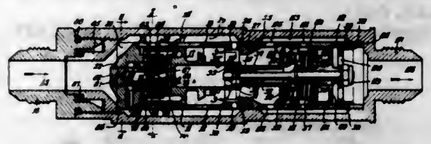
have frictional engagement with said neck portion.

2,592,486
HYDRAULIC METERING FUSE
Donald A. Stark, Chicago, Ill., assignor to William Waterman, Chicago, Ill.
Application July 10, 1945, Serial No. 604,215
13 Claims. (Cl. 137—153)



1. In a fuse of the character described, the combination comprising a housing adapted to be incorporated in a fluid line, a valve seat in said housing, a normally open valve exposed to and adapted to be moved by fluid flow toward said seat, said housing having a discharge orifice, an orifice closure responsive to fluid pressure in said housing for opening said orifice, said closure having a device holding said valve against closing movement and movable with said closure on opening of said orifice to permit said valve to move.

2,592,487
METERING FUSE
Donald A. Stark, Chicago, Ill., assignor to William Waterman, Chicago, Ill.
Application July 10, 1945, Serial No. 604,216
8 Claims. (Cl. 137—152)



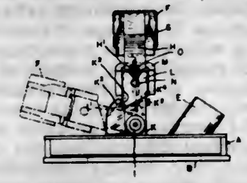
1. In a fuse of the character described, the combination comprising a housing adapted to be incorporated in a fluid line, a valve seat in said housing, a normally open valve in said housing acted on by fluid flow and adapted to be displaced toward said seat by fluid flow, a fluid pressure responsive means for holding said valve against further movement in either direction upon interruption of flow.

2,592,488
SAFETY RAZOR
Nicholas Testi, Boston, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
Application August 5, 1949, Serial No. 108,710
16 Claims. (Cl. 30—64)



1. A safety razor comprising a blade-supporting member presenting a blade seat having a fixed catch and an elongated recess therein, a spring pressed blade ejector movable in the recess with a portion thereof projecting above the level of the blade seat, and manually operated means for disengaging a blade from the said catch whereby the blade ejector may act to eject the blade from the blade seat.

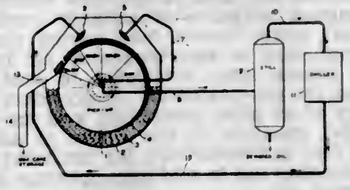
2,592,489
TRAVELING IRON
Laurence H. Thomas, Birmingham, and Frank W. Kuhn, Grosse Pointe Farms, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a corporation of Michigan
Application July 31, 1950, Serial No. 176,832
3 Claims. (Cl. 38—90)



1. In a pressing iron comprising a base and a foldable handle hinged thereto, said handle including a hand-hold portion, arms extending downward from opposite ends thereof, and brackets rigidly secured to and extending upward from said base pivotally connected to said arms to form the hinge thereof; means for automatically rigidly locking said handle in operative upright position when raised from its folded position comprising a finger projecting from one of said brackets forming a stop for the adjacent arm, the said bracket having a notch therein forming a shoulder opposed to said stop, a slide on said arm having a projecting detent for wedging engagement with said shoulder, and resilient means biasing said slide to engage said detent.

2,592,490
METHOD OF DEWAXING OIL AND CONTINUOUS ROTARY FILTER THEREFOR
James P. Thompson, Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application November 29, 1949, Serial No. 129,936
6 Claims. (Cl. 196—19)

1. The method of removing wax from an oily feed slurry in a closed continuous filter, which comprises the steps of forming a wax filter cake upon a traveling surface within the filter chamber, drying said cake as it emerges from the feed slurry, spraying the dried cake with a wash liquid prepared as hereinafter described, subjecting the cake to a secondary spraying with freshly distilled solvent, recycling the oil-solvent filtrate obtained as a result of said secondary spraying for use as the aforesaid initial wash liquid, distilling the oil-solvent filtrate obtained from initial spraying of the wax cake, chilling the resulting overhead solvent product and recycling the same for use in the secondary spray operation, thereafter drying the washed filter cake, dislodging said cake by blowing gas therethrough and removing said dislodged cake from the filter surface.



4. Apparatus for continuous dewaxing of a wax-bearing mineral oil, comprising, in combination, a continuous rotary filter including a rotatable filter drum supporting a continuous filtering element, a housing enclosing said drum, means for continuously drying the wax cake on the filtering element, spray devices adjacent to said drying means for continuously washing the dried cake, spray devices remote from said drying means for continuously washing the cake, means for conducting filtrate liquid obtained upon spraying the wax cake through spray devices remote from said drying means to spray devices adjacent to said drying means, means for distilling the filtrate liquid obtained upon spraying the wax cake through spray devices adjacent to said drying means, means for chilling wash liquid resulting from said distillation, means for conducting said chilled wash liquid to spray devices remote from said drying means, means for continuously drying the washed cake, means for dislodging the cake from the filtering element by blowing gas therethrough and means for removing said dislodged cake from said filtering element.

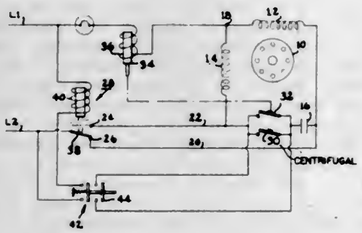
2,592,491
GARBAGE INCINERATING UNIT
Florian C. Toepel, Seattle, Wash.
Application February 14, 1948, Serial No. 8,426
7 Claims. (Cl. 110—8)



1. A garbage disposal unit, consisting of: a primary combustion chamber of circular domed shape having a discharge opening in its top; a centrally disposed conical pillar adapted to coact

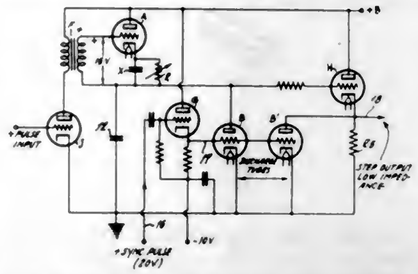
with the dome shaped walls of said primary combustion chamber and provide an annular combustion chamber; a plurality of tangentially directed air jets discharging into and adapted to produce a swirling action within said primary combustion chamber; a conical shield wall disposed concentrically around said primary combustion chamber and spaced therefrom and forming a secondary combustion chamber within said shield and above the dome of said primary combustion chamber; said shield wall having combustion and circulation pre-heated air outlet openings formed therein and disposed above said dome; said primary combustion chamber having inlet openings for said pre-heated air for directing the same to the area where refuse is consumed within said primary combustion chamber; power driven fans having discharge sides connected to said tangential air jets and having intake sides connected to said outlet openings for pre-heated air; a secondary fan; a plurality of air pipes connecting said pre-heated air outlet openings to the intake of said secondary fan; and connecting the discharge side of said secondary fan to said inlet openings for said pre-heated air.

2,592,492
REVERSIBLE MOTOR
James L. Trant, Dayton, Ohio, assignor to The Brown-Brockmeyer Company, Dayton, Ohio, a corporation of Ohio
Application March 23, 1949, Serial No. 83,031
2 Claims. (Cl. 318—203)



1. A reversible induction motor having a rotatable member with a rotor winding, a pair of angularly spaced primary windings connected in parallel, a phase shifting reactance connected in series with one or the other of said windings, a speed responsive means in series with said reactance and operable in response to a predetermined speed of operation of said motor in either direction for interrupting the circuit through said reactance and the winding in series therewith, a reversing switch having two operative positions for selectively connecting said reactance in series with one or the other of said windings, electrically operable means for actuating said reversing switch, a manually operable switch having first contact means adapted to shunt said speed responsive means and second contact means for controlling said electrically operable means, said manually operable switch being adapted when closed to simultaneously shunt said speed responsive means and energize said electrically operated means to move said reversing switch from whichever position it occupies to its other position, and power line connections to said manually operable switch and said angularly spaced primary windings.

2,592,493
PULSE COUNTER CIRCUIT
Bertram Trevor, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 22, 1945, Serial No. 612,034
15 Claims. (Cl. 250—27)



1. A pulse counting system comprising a vacuum tube having grid, anode and cathode electrodes, a source of anode polarizing potential connected to said anode, means for normally biasing said tube to the anode current cut-off condition, an input circuit coupled to said grid and cathode for supplying short duration pulses of such polarity and magnitude as to cause said tube to conduct for the duration of each applied pulse, said means including a resistance-parallel connected condenser in the cathode circuit of said tube, said resistance-condenser arrangement having a time constant which is large in comparison with the average interval between adjacent input pulses, a charge collecting condenser connected between ground and said resistance-condenser arrangement, whereby an incremental increase in voltage of positive polarity is built up on said charge collecting condenser for each input pulse during a cycle of operation, means responsive to a predetermined voltage built up on said charge collecting condenser from a plurality of incremental increases caused by a plurality of applied input pulses for discharging said condenser, and means connected to said cathode and said charge collecting condenser for deriving from said condenser a step wave voltage having a plurality of risers or steps of substantially equal amplitude corresponding in number to the number of input pulses to be counted.

2,592,494
SEAL
Stuart E. Ullmann, Lake Bluff, Ill., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application July 12, 1947, Serial No. 760,557
2 Claims. (Cl. 288—3)

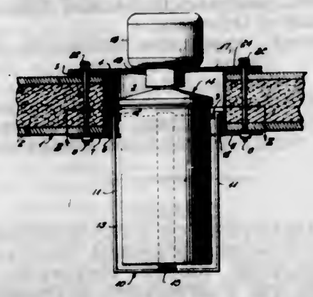
1. A seal comprising inner and outer casing members of L-shaped cross section, each including an axial sleeve and a radial flange of substantial width integral therewith in a plane normal thereto, said casing members being disposed in concentric, axially telescoped relation, with said sleeves in radially spaced, axially overlapping relation and said flanges in axially spaced, radially overlapping relation whereby to define an internal annular chamber of box-like section, an expanding spring in said chamber in axial thrust engagement with the respective flanges to urge said members in opposite axial directions, an annular flexible diaphragm, means securing said diaphragm to said casing members at the opposite peripheries thereof, said diaphragm being disposed generally parallel to and externally of

one of said flanges and externally of said chamber, the other flange having an annular sealing member on the external surface thereof opposite said diaphragm, and means limiting relative axial movement of said members under the expanding action of said spring, including an annular shoulder on one of said members engageable with the



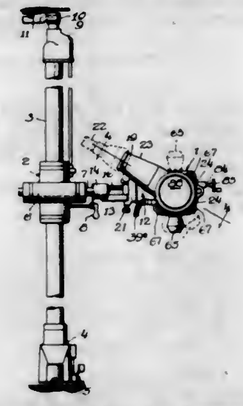
flange of the other and coacting with its associated casing member as part of said securing means to clamp one margin of said diaphragm, the other casing also including an annular shoulder coacting therewith as another part of said securing means to clamp another margin of the diaphragm.

2,592,495
ICE-CREAM FREEZER SUPPORT
Willard W. Varnado, Wiggins, Miss.
Application October 27, 1950, Serial No. 192,473
6 Claims. (Cl. 312—214)



1. An attachment for supporting an elongated container with respect to a cabinet having a top with an opening therein through which said container may be inserted into the interior of the cabinet when the top is closed, said attachment being adapted to support said container in depending relation from said opening and said attachment comprising a liner adapted to fit within said opening and about the inner periphery thereof, said liner having a surface portion which forms a ledge about the periphery of said opening when the liner is fitted within the opening, a bracket, said bracket being insertable through said opening, means on said bracket adapted to rest on said ledge surface to support the bracket when said liner is in place within the opening whereby said bracket can depend from said opening and thus form a support upon which said container may be seated, and means to detachably connect said liner to the cabinet top.

2,592,496
X-RAY TUBE HEAD
John Vigh, Park Ridge, Ill.
Application July 20, 1950, Serial No. 174,951
11 Claims. (Cl. 250—89)



1. In an X-ray tube head, a housing, an X-ray tube rotatably mounted in the opposite ends of the housing, an inner carriage in the housing and encompassing and carrying the tube, an outer carriage rotatably mounted upon the housing, and permanent magnets on the carriages for magnetically coupling the inner carriage and tube to the outer carriage whereby rotation of the outer carriage carries therewith the inner carriage and tube.

2,592,497
EXTREME PRESSURE LUBRICANT
Walter E. Waddey, Elizabeth, and Elmer B. Cyphers, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application October 29, 1949, Serial No. 124,515
4 Claims. (Cl. 252—46.7)

1. A lubricating composition which comprises a major amount of a lubricating oil base stock and a minor amount of a mixture of about 2½% to 10% by weight of a 50% oil concentrate of a P_2S_5 treated degras analyzing from about 5.01% to 7.98% sulfur and from about 1.0% to 2.51% phosphorus, and about 5% to 7.5% chlorinated wax containing about 40% chlorine.

2,592,498
PEDAL BOAT PROPULSION MEANS
Isaac Sidney Wells, Laurel, Miss., assignor of two-thirds to John Madison Guice, Laurel, Miss.
Application January 5, 1950, Serial No. 136,874
1 Claim. (Cl. 115—25)



In combination with a boat, a propulsion device comprising a vertical hanger secured to the inner surface of the side of the boat, a horizontal bearing at the upper end of the hanger, a paddle arm mounted for pivotal movement within the bearing, a crank arm secured to the paddle arm at a point within the boat, a horizontal shaft secured to the vertical hanger adjacent to the lower end thereof, said horizontal shaft extending into

the boat, a pedal pivotally mounted on said shaft, connecting means between the pedal and crank arm, said connecting means embodying rods connected to the pedal and crank arm, and a turnbuckle connecting the rods whereby the stroke of the paddle is adjusted, and said pedal operating to operate the paddle arm and paddle mounted thereon.

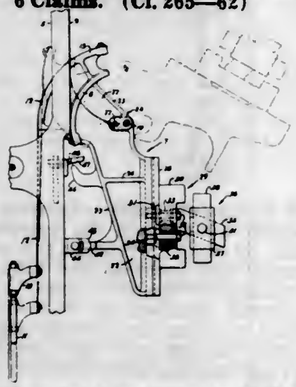
2,592,499

WEIGHING SCALE PENDULUM

Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application May 3, 1946, Serial No. 667,082

6 Claims. (Cl. 265—62)



1. A pendulum for a weighing scale, the pendulum comprising a fulcrum sector having a center, a power sector having a center that is displaced from the center of the fulcrum sector, a rectilinear track that is generally perpendicular to the line connecting the centers of the fulcrum and power sectors, a weight movable along the track, a second rectilinear track having a fixed acute angular relation to the first rectilinear track, and a second weight movable along the second track.

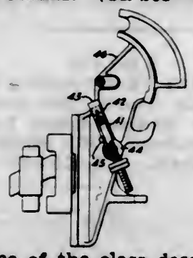
2,592,500

WEIGHING SCALE PENDULUM

Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application May 23, 1946, Serial No. 671,830

13 Claims. (Cl. 265—62)



1. In a device of the class described, in combination, a first pendulum that serving as an automatic counterbalance for a weighing scale is operatively connected to a load receiver and to indicating mechanism, and a second pendulum that is pivotally supported from the first pendulum, said second pendulum being freely pendulous throughout a portion of the travel of the first pendulum and being engaged and moved with the first pendulum throughout another portion of the travel of the first pendulum.

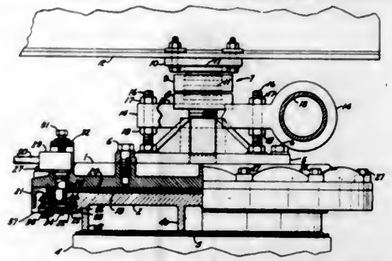
2,592,501

HYDRAULIC SCALE CAPSULE

Lawrence S. Williams, Toledo, Ohio, assignor to Toledo Scale Company, Toledo, Ohio, a corporation of New Jersey

Application November 10, 1949, Serial No. 126,531

11 Claims. (Cl. 137—157)



1. In a hydraulic capsule forming part of a hydraulic force transmitting system for a weighing scale, in combination, a first member, a second member, a rim on the first member that surrounds the periphery of the second member, a plurality of laterally juxtaposed bendable, nonstretchable strips that arch across the gap between the rim and the periphery of the second member and that are anchored to the rim and to the second member, an impervious bladder enclosed between the members and supported by the members and the plurality of juxtaposed strips, and a fluid coupling in communication with the interior of the bladder.

2,592,502

LACQUER COMPOSITIONS CONTAINING THE ROSIN ESTER OF 2,2,6,6-TETRAMETHYLOLCYCLOHEXANOL

Harold Wittcoff and Wesley A. Jordan, Minneapolis, Minn., assignors to General Mills, Inc., a corporation of Delaware

No Drawing. Application October 21, 1949, Serial No. 122,836

6 Claims. (Cl. 106—172)

1. A lacquer composition comprising nitrocellulose, a nitrocellulose solvent, a plasticizer and a rosin acid ester of 2,2,6,6-tetramethylol-cyclohexanol.

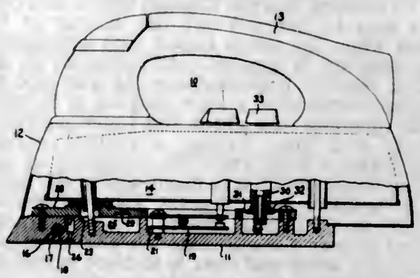
2,592,503

MANUFACTURE OF STEAM IRONS

Kenneth L. Woodman, Mansfield, Ohio, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 7, 1948, Serial No. 1,016

8 Claims. (Cl. 154—116)



1. In the manufacture of a steam iron comprising a vapor-generating chamber formed by parts having mating surfaces and a layer of a silicone compound therebetween adapted to be heat-cured to provide a leakproof seal; the method of protecting the wetting properties of at least a portion of the surface of said vapor-generating chamber from contamination by emissions from said silicone compound during its heat-curing process which comprises coating said surface with a protective material which is removable by heat at a temperature higher than necessary for heat-curing said silicon compound, heating the iron to the temperature necessary for curing said compound and then removing said protective material by subjecting it to said higher temperature at which such removal is effected.

2,592,504

CHAISE-LONGUE BED COMBINATION

Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application July 26, 1947, Serial No. 763,869

1 Claim. (Cl. 5—47)



A convertible lounge comprising a supporting frame providing a bedding box, a pair of standards reciprocably mounted on said frame for forward and rearward movement thereon, a seat section and a normally upright back section hinged to said standards, said seat section overlying said box, in movable contact with said frame, said sections being adjustable from their normal seat and back positions to co-planar positions on said frame to form a bed, said seat section in either position being swingable upwardly at its front end to afford access to said box, a bell crank lever pivoted on said frame at the rear thereof below said back section, one arm of said crank extending upwardly and being pivotally connected to said back section at a point intermediate its height, the other arm of said crank extending downwardly from the crank pivot, a pair of aligned upwardly- and forwardly-extending arms pivoted at their lower ends respectively to opposite sides of said frame forwardly of said bell crank, an equalizer rod extending between and rigidly connected to said arms adjacent their upper ends for maintaining the alignment of said arms, said last-mentioned arms being engageable at their upper ends with the underside of said seat section, and a tension spring connecting said downwardly extending arm of said bell crank and said equalizer rod, said spring constituting said seat-section engaging arms as third class levers for urging the front end of said seat section upwardly and also tending to swing said upwardly-extending arm of said bell crank rearwardly for counterbalancing the weight of said back section to facilitate adjustment of said sections.

2,592,505

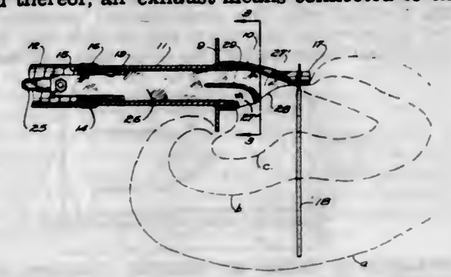
WELDING TOOL

John S. Wolfe, Milwaukee, Wis.

Application March 17, 1949, Serial No. 81,995

2 Claims. (Cl. 219—8)

1. In a device of the character described a wall member forming a hollow elongated nozzle, parts of said wall member being longitudinally curved and cooperating to form an outwardly flaring intake opening in the side of said nozzle adjacent an end thereof, air exhaust means connected to the



opposite end of said nozzle for inducing air to enter said opening and to flow through said nozzle, and lingitudinally extending dividing walls within said nozzle adjacent said side opening.

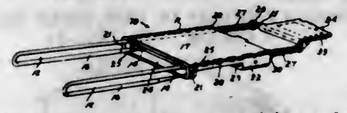
2,592,506

GARMENT SAFETY PIN FASTENER

Thomas Yanagihara, Honolulu, Territory of Hawaii

Application November 2, 1950, Serial No. 193,623

3 Claims. (Cl. 24—156)



1. A garment safety clip comprising a housing member and a hook member moveable within said housing within limits, said hook member comprising a wire rod folded into a U, parts of the legs of the U being folded back parallel to the plane of the U in a plane with an intermediate part of each leg at right angles thereto, the legs terminating in points, said housing comprising a back plate portion, sides on said back plate portion folded at right angles thereto, and extending a distance substantially equal to the diameter of said wire rod, spaced apart front bar portions having folded side portions integrally extending from the side portions of said back plate portion, hook guide and stop means extending through said side portions a distance into said housing greater than the diameter of said wire rod and spaced from the inner surface of said back plate portion a distance substantially equal to the diameter of said wire rod, and means preventing the movement of the U-bight through said housing.

2,592,507

DUST BAG FOR VACUUM CLEANERS

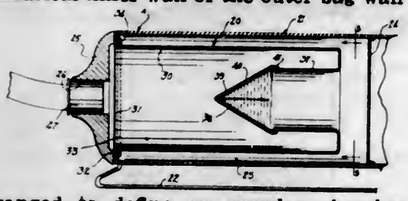
Karl G. Zimmermann, Chicago, Ill., assignor to Life Ease Products, Inc., Chicago, Ill., a corporation of Illinois

Application December 16, 1948, Serial No. 65,642

2 Claims. (Cl. 183—37)

1. A horizontal tank type vacuum cleaner comprising a generally cylindrical housing having an inlet at one end and suction means at its opposite end; and a dust bag in said housing, said dust bag comprising an integral molded plastic cylinder having an open inlet end detachably supported at the inlet end of said housing and having its wall in concentric relation to the wall of said housing, the rear end of the bag having an annular bag wall and a cylindrical wall coaxial with the bag wall extending in-

wardly into the plastic cylinder from the inner periphery of said annular wall and defining an air outlet conduit within the bag, said outlet conduit terminating in a conical perforate cap-like portion with the apex thereof pointing in the direction of the open end of the bag, said cylindrical inner wall of the outer bag wall being



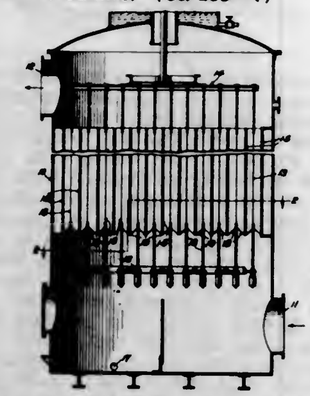
arranged to define an annular chamber surrounding said conduit to receive dust separated from the dust laden air entering said bag, and a flexible air filter having therein a multiplicity of interstices and removably carried by said cap and having flexible means for detachably securing said filter on said cap.

2,592,508

ELECTRICAL PRECIPITATOR

Joseph Phyl, Fanwood, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York

Application February 10, 1950, Serial No. 143,509
7 Claims. (Cl. 183—7)



1. In an electrical precipitator for separating suspended materials from gases comprising spaced substantially vertical discharge electrodes, and parallel collecting electrodes adjacent said discharge electrodes, means at the lower ends of the collecting electrodes directing the flow of precipitated liquids, semi-solids and sludge to drip points remote from the discharge electrodes, whereby discharges at the drip points are substantially reduced.

2,592,509

NONCRYSTALLIZING LACTOSE SIRUP AND METHOD OF MAKING

Richard J. Block, Scarsdale, N. Y., assignor to The Borden Company, a corporation of New Jersey

No Drawing. Application July 13, 1950, Serial No. 173,697
5 Claims. (Cl. 127—30)

1. An aqueous syrup containing lactose in concentration substantially above the normal saturation proportion but in non-crystallizing condition, the lactose being associated with dextrose and galactose in the proportion of at least about 40% of the dextrose and galactose together on the weight of the lactose and the dextrose and galactose being present in approximately equal proportions.

2,592,510

ADHESIVE COMPOSITION AND PROCESS OF PREPARING THE SAME

George S. Casebolt, Darien, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application July 21, 1950, Serial No. 175,300
19 Claims. (Cl. 260—29.4)

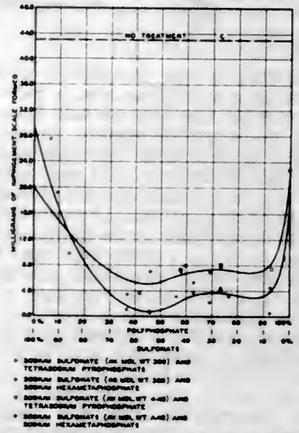
1. A quick-clamp, acid-hardenable, adhesive composition, capable of setting at room temperature, comprising an aqueous emulsion of a co-dried mixture of an urea-formaldehyde resin syrup having a mol ratio of 1:1.2–1:2.1, respectively, and an aqueous emulsion of polyvinyl acetate, said composition having a pH of at least 7.

2,592,511

SCALE PREVENTION IN OIL WELLS

Joseph F. Chittum, Whittier, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application January 7, 1950, Serial No. 137,351
6 Claims. (Cl. 252—8.55)



1. The method of preventing deposition of impingement carbonate scale on metal parts in a well producing oil or gas and water, which comprises introducing into the well during normal production of oil and water therefrom and in the absence of acid, a mixture of 5–80% of a wetting agent which is a surface-active water-soluble sulfonate with 20–95% of a water-soluble polyphosphate calcium-sequestering agent and sufficient water to maintain said mixture in solution.

2,592,512

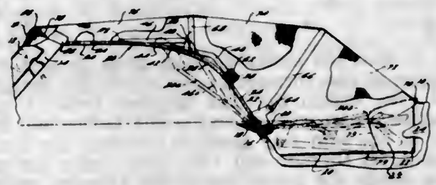
COLLAPSIBLE TOP

John J. Fodermaier, Jr., Grosse Pointe, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application December 29, 1948, Serial No. 67,876
4 Claims. (Cl. 296—116)

2. A manually operated top for vehicle bodies and the like which include a front support pillar and a pivot bracket toward the rear of the vehicle body in spaced relation to the support pillar, said top comprising a first channel member having means for pivoting one end thereof on a fixed axis to said pivot bracket, a spiral spring

carried at the said end of the channel member and biasing the channel member to swing in a direction toward the support pillar thereby extending the top, a hand operated header bar detachably connected to the support pillar, a second channel member affixed at one end to the header bar, the other ends of the respective channel members being arranged such that the channel members are adapted to be disposed end to end in mutual alignment conforming to external contours of a window opening when the top is erected, an engageable portion carried by each of the respective other ends of the channel members and mutually cooperating when brought into engagement to insure transverse



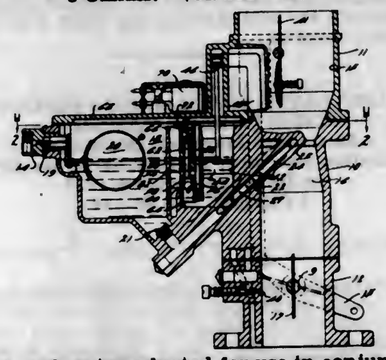
registration between the channel members and insuring a continuous channel surface at the end to end juncture of the channel members along the contours of the window opening, and a link pivoted to each channel member at an intermediate portion of the latter, and pivoted at an inner free end thereof to the said other end of the other channel member, the link pivot to the other end of the second channel member being in a position slightly past center with respect to conforming to alignment with the respective link pivots to the intermediate portions of the channel members when said cooperating engageable portions establish the mutual engagement aforesaid.

2,592,513

THROTTLE DASHPOT MECHANISM

Roy C. Haeusler, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application February 3, 1949, Serial No. 74,383
8 Claims. (Cl. 261—65)



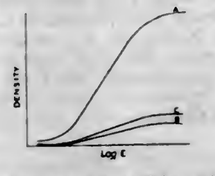
1. A carburetor adapted for use in conjunction with an internal combustion engine and comprising a housing having a fuel reservoir provided with a fuel inlet and a fuel outlet, a throttle valve operable to regulate the flow of fuel and air through said carburetor, a vertically extending partition dividing said fuel reservoir into a first compartment containing said fuel inlet and said fuel outlet and a second compartment, means forming a bleed passage for fuel to enter said second compartment at a restricted rate approximating the rate of loss of fuel from said second compartment by evaporation and a dashpot mechanism operable to retard closing movement of said throttle and comprising wall structure defining a piston receiving bore in a portion of said second compartment, a piston slidably mounted in said bore and operatively connected to said throttle valve for movement toward one end of said bore in response to closing movement of said throttle valve, means forming a fluid flow connection between said bore and that portion of said second compartment exterior of said bore, a one-way valve located in said connection and a means forming a restricted fluid flow passage for bleeding fuel from said bore to that portion of said second compartment exterior of said bore independently of said one-way valve.

2,592,514

MULTILAYER PHOTOGRAPHIC COLOR FILM IN WHICH AT LEAST ONE LAYER CONTAINS A MIXTURE OF CYAN, MAGENTA, AND YELLOW DYE IMAGE INTERMEDIATES

Harold C. Harsh, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application May 7, 1947, Serial No. 746,430
9 Claims. (Cl. 95—2)



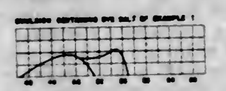
1. A multilayer photographic color film comprising a support bearing superimposed red, green and blue sensitive silver halide emulsion layers containing color formers capable of yielding upon exposure and development with a primary aromatic amino developing agent a dye selected from the group consisting of azomethine and quinoneimine dyes complementary in color to the sensitivity of the layer, said dyes having original undesired absorption gammas in the spectral regions in which they should be fully transmittant, the red, green and blue sensitive layers containing in addition a minor amount of a mixture of magenta and yellow, yellow and cyan, and cyan and magenta color formers, respectively, in such proportions that all of said undesired absorption gammas are raised approximately to the same value represented by a gamma at least as high as the highest of said original undesired absorption gammas.

2,592,515

PHOTOGRAPHIC EMULSIONS CONTAINING SYMMETRICAL TETRANUCLEAR DYE SALTS

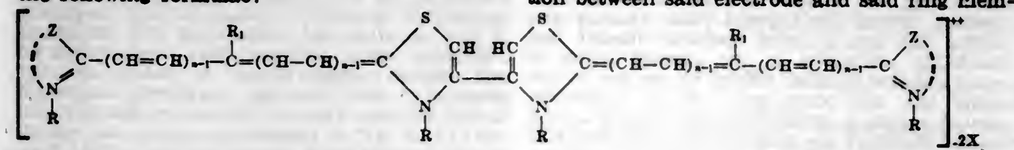
Lee C. Hensley, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

Application October 31, 1950, Serial No. 193,284
6 Claims. (Cl. 95—7)

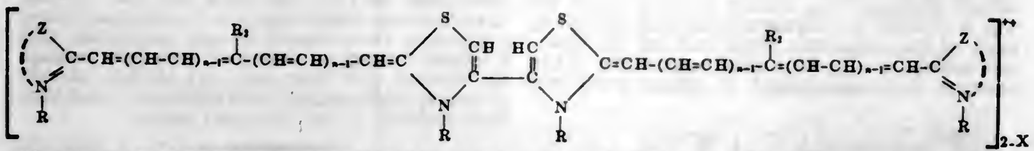


1. A photographic gelatino silver halide emulsion which contains a dyestuff characterized by

the formula selected from the class consisting of the following formulae:



and



wherein R represents a member selected from the class consisting of alkyl and aralkyl groups, R_1 and R_2 represent members selected from the class consisting of hydrogen and alkyl groups, R_1 being only hydrogen when n equals 1, n represents a positive integer ranging from 1 to 2, X represents an anionic radical, and Z represents the atoms necessary to complete a member of the group consisting of 5- and 6-membered nitrogenous heterocyclic ring system.

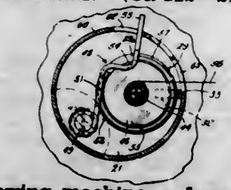
2,592,516

BOBBIN WINDER FOR SEWING MACHINES

George B. Hirsch, Providence, R. I., and Clarence R. Backlin, North, N. Y., assignors to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application October 17, 1946, Serial No. 703,760

10 Claims. (Cl. 112—218)



1. In a sewing machine, a frame part having a power-operated member, and having an opening located adjacent the member; a unitary bobbin winding attachment comprising a body positioned and secured within the opening of the frame part; mounting means slidably carried within the body and having means thereon rotatably mounting a bobbin; a drive mechanism connected with the bobbin-mounting means and rendered operative upon sliding of the mounting means in response to axial pressure on the bobbin, the said mechanism including a member having a surface and driven from the power-operated member; and yieldable traction means between the said surface and the power-operated member.

2,592,517

CLOSED ELECTRIC FURNACE

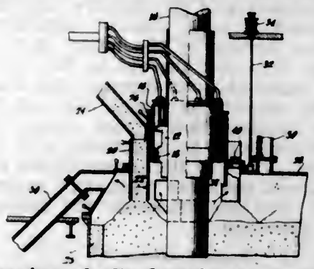
Arne Hildor Ingelsrud, Oslo, Norway, assignor to Elektrokemisk A/S, a corporation of Norway

Application October 10, 1950, Serial No. 189,402

In Norway June 16, 1944

10 Claims. (Cl. 13—9)

9. In a furnace of the type described a furnace casing, a roof for the casing above the furnace casing having portions extending down to make a connection with the furnace casing, a circular opening in the roof, a ring member in said opening extending down from the roof, an electrode movable within said ring member of smaller diameter than the ring member, means for making a substantially gas-tight sliding connection between said electrode and said ring member so that the electrode may move in and out relative to the furnace casing while the peripheral area within the ring member forms a gas chamber, segmental charging shafts through the roof of the said ring member forming the inner boundaries thereof and with their outer boundaries inside the inner line of the furnace casing and occupying a major proportion of the peripheral space about said ring member, with spaces between such charging shafts so that



the charging shafts largely surround but are spaced from the electrode, with the result that a charge introduced through such shafts will slope toward the electrode to surround the same with relatively shallow valleys in the charge below the ring member, passages for the escape of gas formed in the lower part of the ring member leading into the body of the furnace chamber, and means for withdrawing gas from within the furnace chamber.

2,592,518

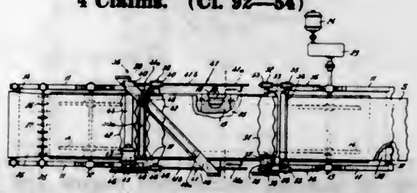
APPARATUS FOR MAKING FIBROUS CEMENT SHEET MATERIAL

Alessandro Magnani, Broni, Italy

Application November 27, 1940, Serial No. 367,476

In Italy September 8, 1939

4 Claims. (Cl. 92—54)



1. In apparatus for the manufacture of fibrous cement sheet material, the combination of a suction support having a pervious horizontal top, a strip of pervious fabric covering the support, a frame overlying the portion of the strip in contact with the support and extending across the strip, the frame including side walls and a pair of spaced transverse spreading elements having lower edges spaced from the surface of the strip,

means for moving the strip and support to advance the strip beneath the frame, guides along the sides of the support, the guides having horizontal end sections and intermediate sections inclined upwardly in the direction of movement of the strip and support and the frame having rollers running on the guides, means for reciprocating the frame on the guides, and means for depositing aqueous fibrous cement material on the strip within the frame.

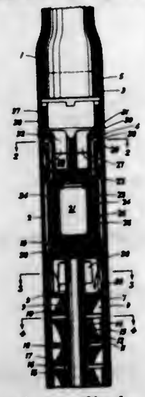
2,592,519

TURBODRILL THRUST BALANCING APPARATUS

William R. Postlewaite, Menlo Park, Calif., assignor, by mesne assignments, to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application November 8, 1948, Serial No. 58,971

1 Claim. (Cl. 253—3)



A thrust balancing cylinder for an axial flow drilling mud fluid driven turbine with a vaned shaft mounted in a ported tubular housing and having a piston secured to the top of said turbine shaft, comprising a cylindrical member secured in the drilling fluid inlet of said tubular housing, a bore in said member closed at one end and open at the opposite end to receive said piston, centering means at each end of said cylinder to align it in said housing, means on said cylinder cooperating with said housing to form a drilling fluid bypass from the upper end of said cylinder to the lower end thereof independently of said bore, means forming a passage from the closed end of said bore to a port of said housing, and sealing means for said last-named passage-forming means.

2,592,520

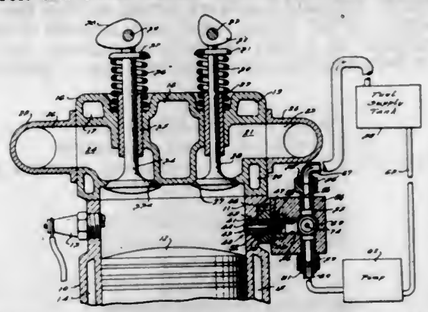
APPARATUS AND METHOD FOR HANDLING LIQUIDS

Loren Clifford Sackett, Highland Park, John R. Miller, Royal Oak, and Reuben W. Kelto, Highland Park, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application August 13, 1945, Serial No. 610,516

12 Claims. (Cl. 123—32)

8. An electrical circuit for injecting and igniting liquid fuel comprising a fuel injection means including an electrode set within a contained mass of the liquid fuel including a first electrode, a second electrode spaced from the first electrode comprising concentrically arranged, spaced, outer and inner electrode members, a source of electrical energy having first and second circuit branches, said first branch including a capacitor connected to the outer electrode member for continuously impressing a relatively low voltage between the outer electrode member and the first



electrode, said second branch including a second capacitor connected to the inner electrode member for impressing a relatively high voltage between the first electrode and the inner electrode member, a fuel ignition means comprising a spark plug, and circuit means connecting said spark plug to said second branch and arranged to divide the charge of the second capacitor between the spark plug and the outer electrode member respectively.

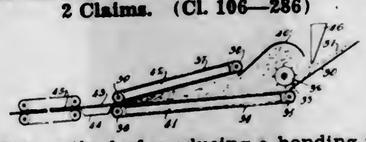
2,592,521

BONDED ASBESTOS AND METHOD OF MAKING THE SAME

John S. Thompson, Detroit, Mich., assignor, by mesne assignments, to Parker Rust-Proof Company, a corporation of Michigan

Application September 18, 1945, Serial No. 617,104

2 Claims. (Cl. 106—286)



1. The method of producing a bonding powder which comprises first dusting granular zinc dihydrogen phosphate with finely powdered magnesia and then grinding the mixture.

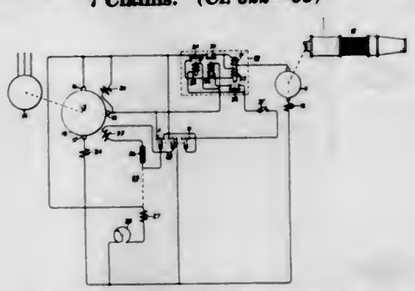
2,592,522

DYNAMOELECTRIC MACHINE AND CONTROL

Lloyd M. Hendrick and Charles M. Wheeler, Fitchburg, Mass., assignors to General Electric Company, a corporation of New York

Application January 12, 1950, Serial No. 138,152

7 Claims. (Cl. 322—53)



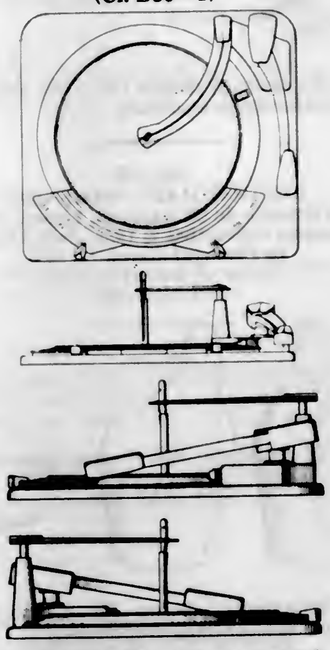
1. Current supply means for a load comprising in combination a direct current generator having two load brushes and an auxiliary brush

located therebetween and having two field exciting windings, means including connections for selectively first energizing said field exciting windings differentially from one of said load brushes and said auxiliary brush so that the net voltage output across said load brushes is substantially zero and secondly energizing one of said field exciting windings from one of said load brushes and said auxiliary brush and the other of said field exciting windings from said load brushes so that the energization of said second winding will be initially zero for said second condition and the voltage output at said load brushes may gradually build up from said zero value as determined by the excitation of said windings and the effect of armature reaction.

DESIGNS

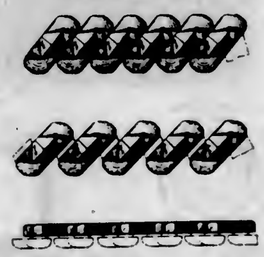
APRIL 8, 1952

166,371
RECORD CHANGER TURNTABLE UNIT
Samuel E. Adler and James E. Vistain, Jr., Chicago, Ill.
Application December 5, 1951, Serial No. 17,624
Term of patent 14 years
(Cl. D56—4)



The ornamental design for a record changer turntable unit, as shown.

166,372
EXPANSIBLE CHAIN FOR A WRIST WATCH BRACELET OR THE LIKE
William C. Boots, Rumford, R. I., assignor to Foster Metal Products Incorporated, Attleboro, Mass., a corporation of Massachusetts
Application October 20, 1951, Serial No. 17,059
Term of patent 14 years
(Cl. D45—4)



The ornamental design for an expansible chain for a wrist watch bracelet or the like, substantially as shown and described.

166,373
EXPANSIBLE BRACELET
William C. Boots, Rumford, R. I.
Application December 17, 1951, Serial No. 17,757
Term of patent 14 years
(Cl. D45—4)



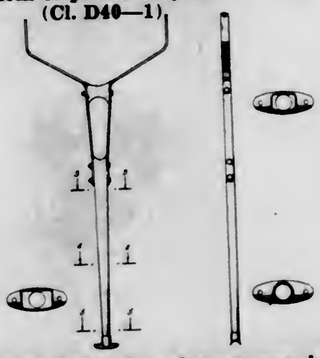
The ornamental design for an expansible bracelet, substantially as shown.

166,374
TABLECLOTH
Francesco P. Castorani, Exton, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application January 12, 1952, Serial No. 18,030
Term of patent 7 years
(Cl. D92—26)



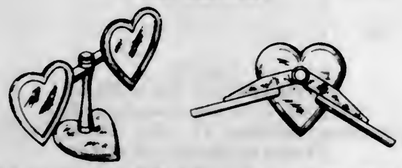
The ornamental design for a tablecloth, substantially as shown and described.

166,375
LAWN MOWER HANDLE
Clayton K. Cole, Kalamazoo, Mich., assignor to Atlas Press Company, Kalamazoo, Mich., a corporation of Michigan
Application April 10, 1951, Serial No. 14,788
Term of patent 14 years
(Cl. D40—1)



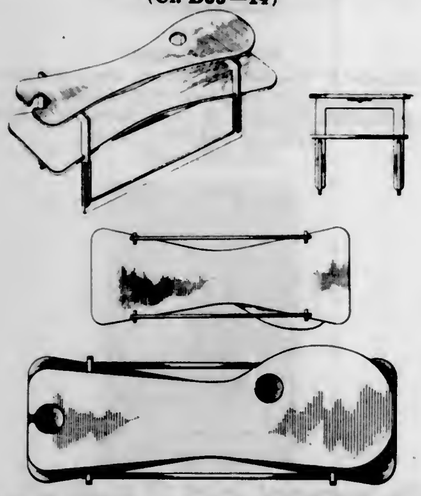
The ornamental design for a lawn mower handle, as shown.

166,376
HOLDER FOR PHOTOGRAPHS OR THE LIKE
Carl L. Curt, Boulder, Colo.
Application April 6, 1950, Serial No. 9,011
Term of patent 3½ years
(Cl. D29—20)



The ornamental design for a holder for photographs or the like, as shown.

166,377
TABLE
Philip C. Curtis, Scottsdale, Ariz.
Application June 8, 1951, Serial No. 15,468
Term of patent 3½ years
(Cl. D33—14)



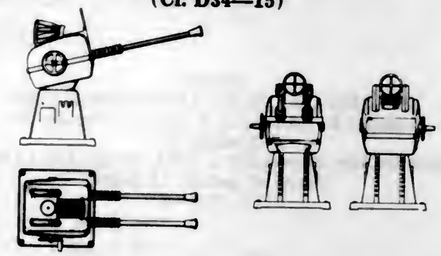
The ornamental design for a table, substantially as shown.

166,378
DRAPERY HANGER
Mary Daugull, Chicago, Ill.
Application August 29, 1951, Serial No. 16,474
Term of patent 14 years
(Cl. D21—1)



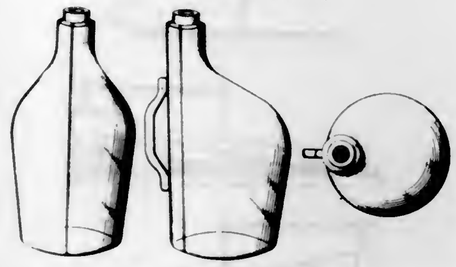
The ornamental design for a drapery hanger, substantially as shown and described.

166,379
TOY ANTIAIRCRAFT GUN
John De Cicco, Valley Stream, N. Y.
Application September 13, 1951, Serial No. 16,625
Term of patent 3½ years
(Cl. D34—15)



The ornamental design for a toy anti-aircraft gun, substantially as shown.

166,380
NONGURGLING DEMIJOHN
Carlos Ernesto de Sá Cardoso, Lisbon, Portugal
Application September 7, 1950, Serial No. 12,092
In Portugal March 11, 1950
Term of patent 14 years
(Cl. D58—25)



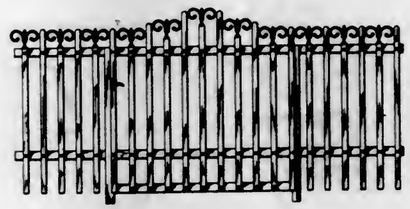
The ornamental design for a non-gurgling demijohn, substantially as shown.

166,381
SUNDAE GLASS
Richard C. Diebenkorn, Atherton, Calif., assignor to Dohrmann Hotel Supply Co., San Francisco, Calif., a corporation of Nevada
Application June 22, 1951, Serial No. 15,635
Term of patent 14 years
(Cl. D36—8)



The ornamental design for a sundae glass, as shown.

166,382
COMBINED FENCE AND GATE
Joseph A. Falatico, Baltimore, Md.
Application June 21, 1949, Serial No. 3,440
Term of patent 14 years
(Cl. D28—1)



The ornamental design for a combined fence and gate, substantially as shown.

166,383
FURNITURE SCARF OR SIMILAR ARTICLE
Leo Fish, Forest Hills, N. Y., assignor to F. F. F. Textiles, Inc., New York, N. Y., a corporation of New York
Application June 1, 1950, Serial No. 10,298
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a furniture scarf or similar article, substantially as shown and described.

166,384
CARPET
Robert Fleck, Jenkintown, Pa.
Application March 19, 1951, Serial No. 14,551
Term of patent 14 years
(Cl. D92—4)



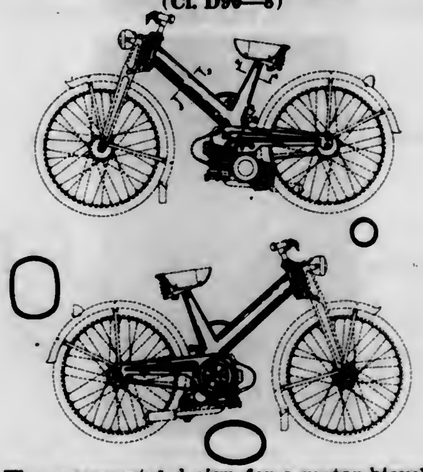
The ornamental design for a carpet, as shown and described.

166,385
SHOE HEEL
Antoine Gazda, Providence, R. I.
Application December 14, 1949, Serial No. 6,620
Term of patent 14 years
(Cl. D7—5)



The ornamental design for a shoe heel, substantially as shown and described.

166,386
MOTOR BICYCLE
Carlo Gilardi, Milan, Italy
Application March 23, 1950, Serial No. 8,732
Term of patent 14 years
(Cl. D90—8)



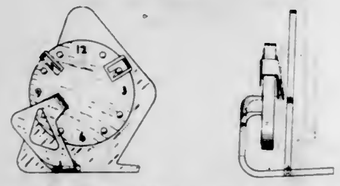
The ornamental design for a motor bicycle, as shown and described.

166,387
FIGURINE
Aligivero Giovacchimi, Chicago, Ill.
Application November 23, 1951, Serial No. 17,504
Term of patent 3½ years
(Cl. D29—23)



The ornamental design for a figurine, as shown.

166,388
CLOCK FRAME OR SIMILAR ARTICLE
Robert Cyril Glorieux, Newton, Mass.
Application May 12, 1950, Serial No. 9,912
Term of patent 3½ years
(Cl. D42—7)



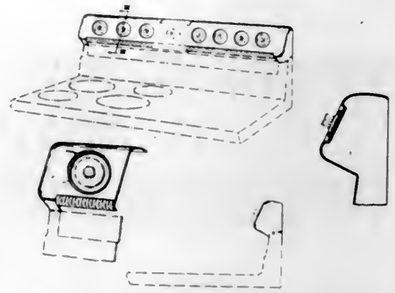
The ornamental design for a clock frame or similar article, as shown and described.

166,389
EMBOSSED PLASTIC TABLE MAT
Tillman J. Gressitt, Monkton, Md., assignor to Hedwin Corporation, Baltimore, Md., a corporation of Maryland
Application June 15, 1951, Serial No. 15,561
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for an embossed plastic table mat, as shown.

166,390
TOP AND BACKSPLASHER UNIT FOR ELECTRIC RANGE
Lurelle Guild, Noroton, Conn., and Frederick W. Perl, Mansfield, Ohio, assignors to Westinghouse Electric Corporation, a corporation of Pennsylvania
Application April 6, 1951, Serial No. 14,732
Term of patent 14 years
(Cl. D81—25)

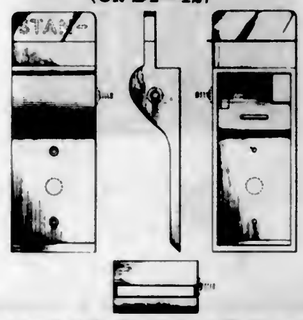


The ornamental design for a top and backsplasher unit for electric range, substantially as shown and described.

166,391
EMBROIDERED EYELET FABRIC
Walter Hallbauer, Union City, N. J.
Application March 1, 1951, Serial No. 14,349
Term of patent 3½ years
(Cl. D92—1)

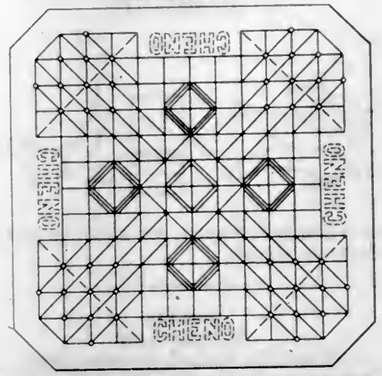
The ornamental design for an embroidered eyelet fabric, substantially as shown and described.

166,392
ILLUMINABLE HOUSE SIGN
Stanley Helfenbein, Miami, Fla.
Application September 26, 1951, Serial No. 16,748
Term of patent 7 years
(Cl. D1—12)



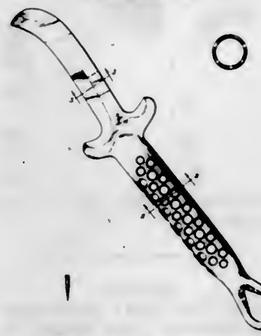
The ornamental design for an illuminable house sign, as shown and described.

166,393
GAME BOARD
Andrew J. Henry, El Paso, Tex.
Application July 13, 1951, Serial No. 15,864
Term of patent 7 years
(Cl. D34—5)



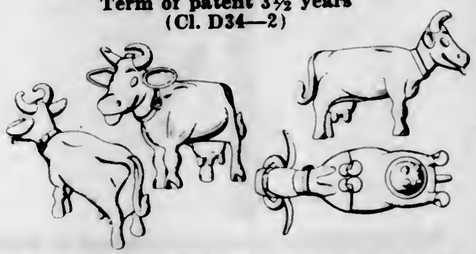
The ornamental design for a game board, as shown and described.

166,394
CUTTING TOOL
Homer G. Herold, Jamestown, Calif.
Application January 2, 1952, Serial No. 17,898
Term of patent 14 years
(Cl. D22—3)



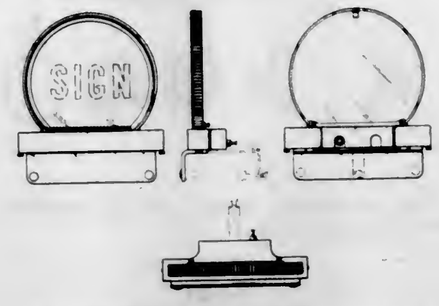
The ornamental design for a cutting tool, as shown.

166,395
TOY COW
Norman Hollis, London, England, assignor, by mesne assignments, to Thomas Manufacturing Corporation, Newark, N. J., a corporation of New Jersey
Application July 9, 1951, Serial No. 15,797
In Great Britain February 27, 1951
Term of patent 3½ years
(Cl. D34—2)



The ornamental design for a toy cow, as shown.

166,396
ILLUMINABLE SIGN
Frank Kasputis, Chicago, Ill., assignor to Price Brothers, Inc., Chicago, Ill., a corporation of Illinois
Application August 24, 1950, Serial No. 11,906
Term of patent 3½ years
(Cl. D1—12)

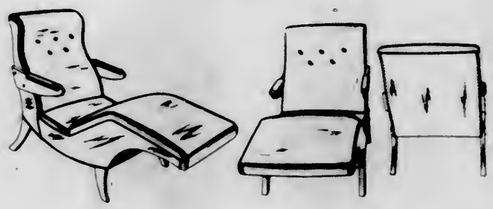


The ornamental design for an illuminable sign, substantially as shown and described.

166,397
CHAIR
Ray Komai, New York, N. Y., assignor to J. G. Furniture Co., Inc., Brooklyn, N. Y., a corporation of New York
Application February 23, 1950, Serial No. 8,074
Term of patent 14 years
(Cl. D15—1)

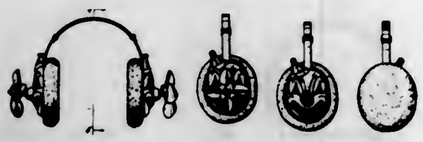
The ornamental design for a chair, as shown.

166,398
CHAIR
Joseph F. Laskowitz, St. Louis, Mo.
Application April 19, 1950, Serial No. 9,338
Term of patent 14 years
(Cl. D15—1)



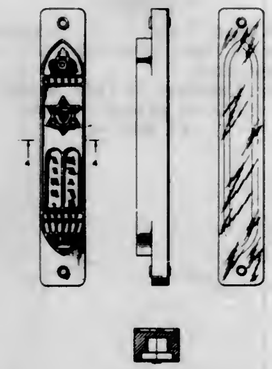
The ornamental design for a chair, substantially as shown.

166,399
EARMUFF
John Lattuca, Brooklyn, N. Y.
Application March 22, 1951, Serial No. 14,587
Term of patent 3½ years
(Cl. D3—2)



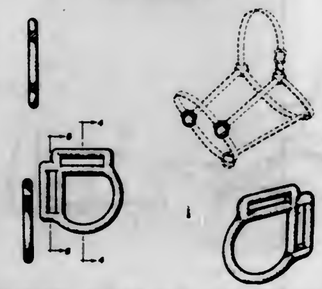
The ornamental design for an earmuff, as shown and described.

166,400
MEZUZAH CASE
Max W. Lawsky, New York, N. Y.
Application June 9, 1951, Serial No. 15,478
Term of patent 7 years
(Cl. D29—23)



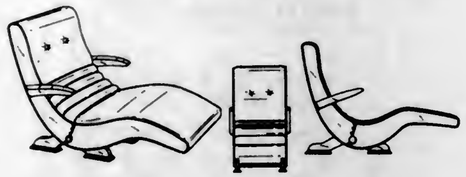
The ornamental design for a mezuzah case, substantially as shown.

166,401
ANIMAL HALTER
Gus Mackie, Bellevue, Wash.
Application August 18, 1950, Serial No. 11,825
Term of patent 14 years
(Cl. D38—8)



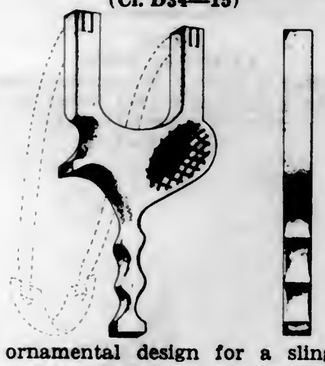
The ornamental design for an animal halter, as shown and described.

166,402
LOUNGE CHAIR
Max Manne, St. Louis, and Jesse T. Herzog, Hazelwood, Mo.
Application April 6, 1951, Serial No. 14,730
Term of patent 3½ years
(Cl. D15—11)



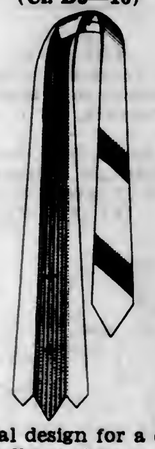
The ornamental design for a lounge chair, substantially as shown.

166,403
SLINGSHOT
Harold D. McColl, Douglas, Wyo.
Application December 21, 1951, Serial No. 17,786
Term of patent 14 years
(Cl. D34—15)



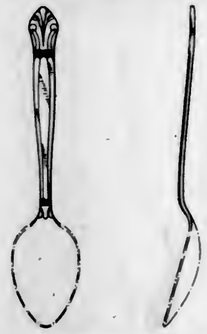
The ornamental design for a slingshot, as shown and described.

166,404
CRAVAT OR SIMILAR ARTICLE
Joseph Melville, Long Beach, N. Y.
Application June 8, 1951, Serial No. 15,462
Term of patent 7 years
(Cl. D3—16)



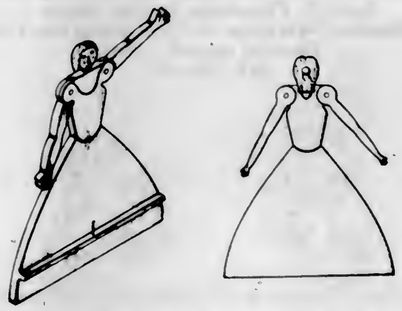
The ornamental design for a cravat or similar article, substantially as shown and described.

166,405
SPOON OR THE LIKE
Norman J. Mercer, Brooklyn, N. Y.
Application April 9, 1951, Serial No. 14,759
Term of patent 3½ years
(Cl. D54—12)



The ornamental design for a spoon or the like, substantially as shown and described.

166,406
PERIODICAL SUPPORT
William L. Minick, Waynesboro, Pa.
Application January 10, 1951, Serial No. 13,728
Term of patent 14 years
(Cl. D33—2)



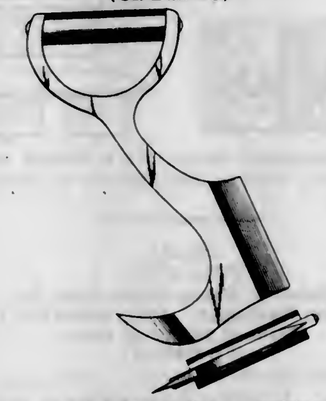
The ornamental design for a periodical support, as shown and described.

166,407
SPOON OR SIMILAR ARTICLE
Corrine J. Nevelson, New York, N. Y.
Application December 1, 1951, Serial No. 17,586
Term of patent 14 years
(Cl. D54—12)



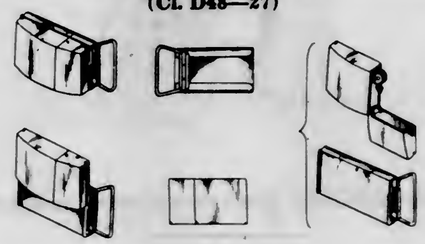
The ornamental design for a spoon or similar article, substantially as shown and described.

166,408
COMBINED AXE AND HOOK
John G. Oake, Deer Lake, Newfoundland
Application June 23, 1949, Serial No. 3,488
In Canada December 23, 1948
Term of patent 7 years
(Cl. D22—3)



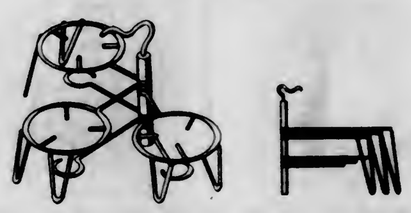
The ornamental design for a combined axe and hook, substantially as shown and described.

166,409
COMBINED BUCKLE AND LIGHTER
Albert W. Paciello, Richmond Hill, N. Y.
Application October 17, 1951, Serial No. 16,998
Term of patent 3½ years
(Cl. D48—27)



The ornamental design for a combined buckle and lighter, substantially as shown.

166,410
MULTIPLE BURNER GRILL STAND
Fred Press, New York, N. Y., assignor to Rubel & Company Decorative Accessories, Inc., New York, N. Y.
Application August 1, 1951, Serial No. 16,098
Term of patent 3½ years
(Cl. D81—10)



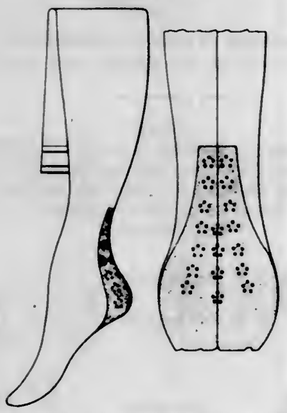
The ornamental design for a multiple burner grill stand, substantially as shown.

166,411
VEHICLE LUGGAGE RACK LIGHTING FIXTURE
Orval W. Rahn, Chicago, Ill.
Application December 30, 1950, Serial No. 13,632
Term of patent 14 years
(Cl. D48—20)



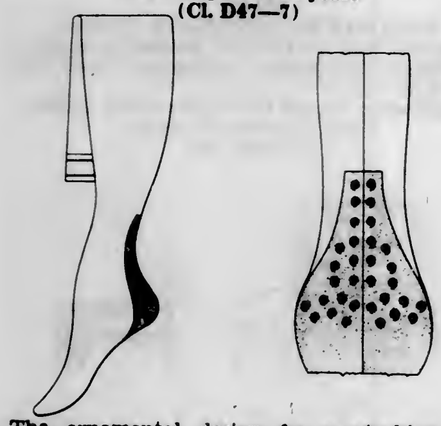
The ornamental design for a vehicle luggage rack lighting fixture, substantially as shown and described.

166,412
STOCKING
Fillmore C. Rosen, Elkins Park, Pa.
Application November 7, 1951, Serial No. 17,315
Term of patent 14 years
(Cl. D47—7)



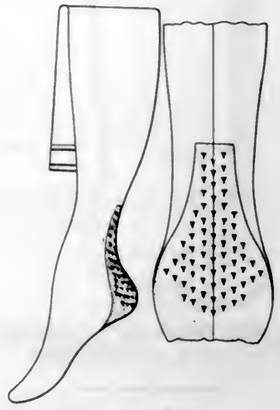
The ornamental design for a stocking, as shown.

166,413
STOCKING
Fillmore C. Rosen, Elkins Park, Pa.
Application November 7, 1951, Serial No. 17,316
Term of patent 14 years
(Cl. D47—7)



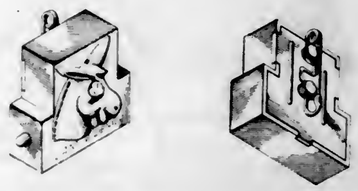
The ornamental design for a stocking, as shown.

166,414
STOCKING
Fillmore C. Rosen, Elkins Park, Pa.
Application November 7, 1951, Serial No. 17,317
Term of patent 14 years
(Cl. D47—7)



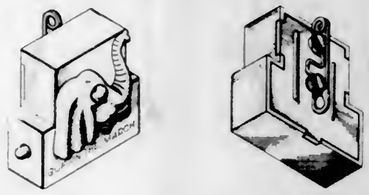
The ornamental design for a stocking, as shown.

166,415
PIN
Milton P. Roumm, Julius W. Gehring, and John G. Chapman, Seattle, Wash.
Application November 23, 1951, Serial No. 17,497
Term of patent 7 years
(Cl. D29—3)



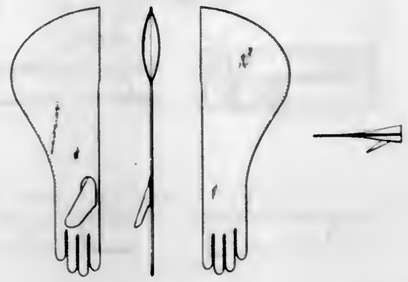
The ornamental design for a pin, as shown.

166,416
PIN
Milton P. Roumm, Julius W. Gehring, and John G. Chapman, Seattle, Wash.
Application November 23, 1951, Serial No. 17,498
Term of patent 7 years
(Cl. D29—3)



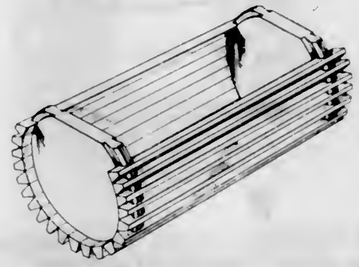
The ornamental design for a pin, as shown.

166,417
GLOVE
Louis Rubin, Gloversville, N. Y., assignor to J. M. Rubin & Sons, Gloversville, N. Y., a copartnership
Application June 29, 1951, Serial No. 15,710
Term of patent 7 years
(Cl. D3—11)



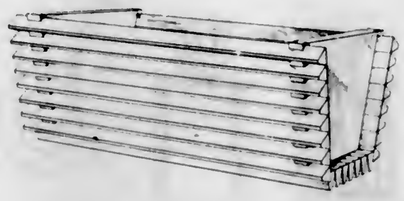
The ornamental design for a glove, substantially as shown.

166,418
PLANTER OR SIMILAR ARTICLE
Raymond C. Sandkuhle, San Jose, Calif.
Application November 26, 1951, Serial No. 17,521
Term of patent 14 years
(Cl. D35—3)



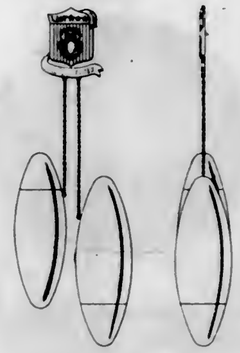
The ornamental design for a planter or similar article, as shown:

166,419
PLANTER OR SIMILAR ARTICLE
Raymond C. Sandkuhle, San Jose, Calif.
Application November 26, 1951, Serial No. 17,522
Term of patent 14 years
(Cl. D35—3)



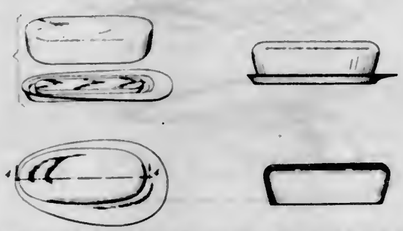
The ornamental design for a planter or similar article, as shown.

166,420
COSMETIC CONTAINER UNIT
Pearl L. Schluttig, Washington, D. C.
Application September 25, 1951, Serial No. 16,739
Term of patent 14 years
(Cl. D86—10)



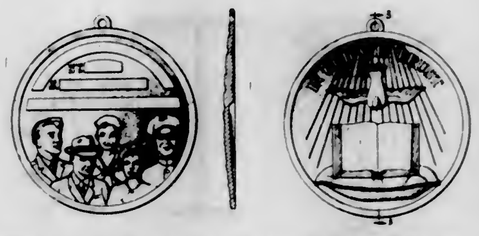
The ornamental design for a cosmetic container unit, as shown and described.

166,421
COMBINED BUTTER DISH AND COVER
Simon H. Slobodkin, New York, N. Y., assignor to Canonsburg Pottery Company, Canonsburg, Pa., a corporation of Pennsylvania
Application October 11, 1950, Serial No. 12,529
Term of patent 7 years
(Cl. D44—5)



The ornamental design for a combined butter dish and cover, as shown.

166,422
IDENTIFICATION MEDALLION
William Stayback, Riveredge, N. J.
Application April 10, 1951, Serial No. 14,776
Term of patent 3½ years
(Cl. D29—19)



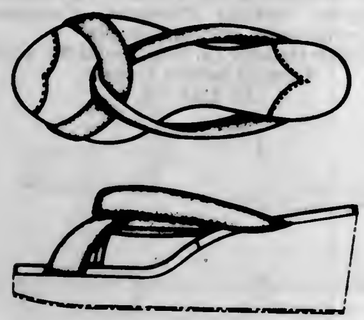
The ornamental design for an identification medallion, as shown.

166,423
HAT
Henry F. Stec, Chicago, Ill.
Application September 25, 1951, Serial No. 16,736
Term of patent 3½ years
(Cl. D3—13)



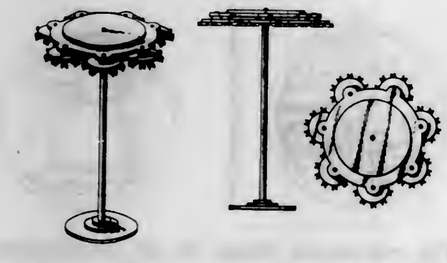
The ornamental design for a hat, substantially as shown and described.

166,424
PLAY SHOE OR THE LIKE
Carl R. Stern, Garden City, N. Y.
Application February 6, 1952, Serial No. 18,404
Term of patent 7 years
(Cl. D7—7)



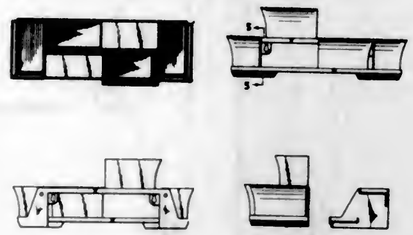
The ornamental design for a play shoe or the like, substantially as shown.

166,425
BELT DISPLAY STAND
Waldo E. Stolz, Dayton, Ohio
Application October 17, 1951, Serial No. 16,972
Term of patent 14 years
(Cl. D80—9)



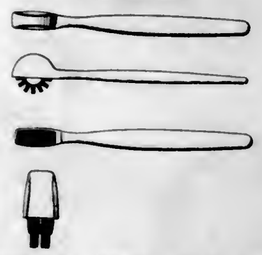
The ornamental design for a belt display stand, as shown.

166,426
COMBINATION WALL SHELF AND PLANTER UNIT
Alfred B. Stotter, Cleveland Heights, and Anthony J. Valiksnoras, Cleveland, Ohio, assignors to Transparent Specialties Corporation, Cleveland, Ohio, a corporation of Ohio
Application July 11, 1951, Serial No. 15,822
Term of patent 14 years
(Cl. D35—3)



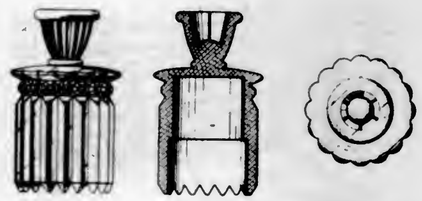
The ornamental design for a combination wall shelf and planter unit, substantially as shown.

166,427
TOOTHBRUSH OR SIMILAR ARTICLE
Alvin E. Strock, Newton, Mass.
Application November 25, 1949, Serial No. 6,259
Term of patent 14 years
(Cl. D9—2)



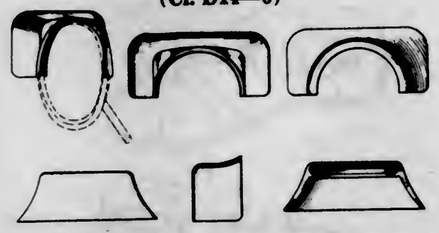
The ornamental design for a toothbrush or similar article, substantially as shown.

166,428
CANDLESTICK
Kirkland W. Todd, Pittsburgh, Pa., assignor to The Jeannette Glass Company, Jeannette, Pa., a corporation of Pennsylvania
Application April 7, 1951, Serial No. 14,753
Term of patent 14 years
(Cl. D48—2)



The ornamental design for a candlestick, substantially as shown and described.

166,429
VISOR FOR REARVIEW MIRRORS AND THE LIKE
Arthur F. Triphahn, Chicago, Ill.
Application June 5, 1951, Serial No. 15,420
Term of patent 14 years
(Cl. D14—6)



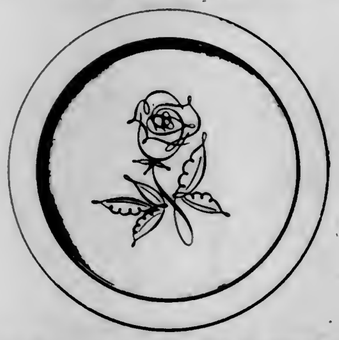
The ornamental design for a visor for rearview mirrors and the like, substantially as shown and described.

166,430
DINNER PLATE OR SIMILAR ARTICLE
Franz Wagner, Chicago, Ill.
Application October 30, 1951, Serial No. 17,174
Term of patent 7 years
(Cl. D44—15)



The ornamental design for a dinner plate or similar article, as shown and described.

166,431
DINNER PLATE OR SIMILAR ARTICLE
Franz Wagner, Chicago, Ill.
Application October 31, 1951, Serial No. 17,198
Term of patent 7 years
(Cl. D44—15)



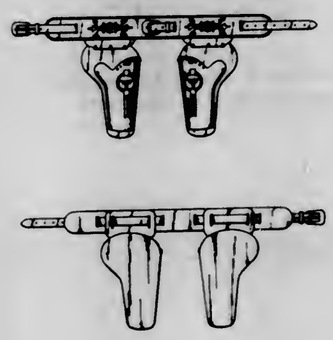
The ornamental design for a dinner plate or similar article, as shown and described.

166,432
DINNER PLATE OR SIMILAR ARTICLE
Franz Wagner, Chicago, Ill.
Application October 31, 1951, Serial No. 17,199
Term of patent 7 years
(Cl. D44—15)



The ornamental design for a dinner plate or similar article, as shown and described.

166,433
COMBINED BELT AND HOLSTERS SET
Herman R. Weitzman, Los Angeles, Calif.
Application November 28, 1949, Serial No. 6,301
Term of patent 7 years
(Cl. D34—15)



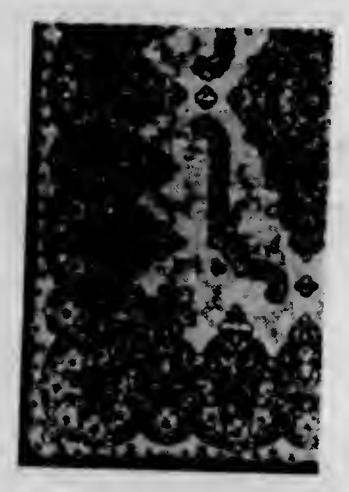
The ornamental design for a combined belt and holsters set, substantially as shown.

166,434
PLASTIC COVERING FOR A PAIL
Howard M. Wilkoff, New York, N. Y.
Application December 21, 1950, Serial No. 13,520
Term of patent 14 years
(Cl. D58—2)



The ornamental design for a plastic covering for a pail, substantially as shown and described.

166,435
TABLECLOTH
William Wolf, Philadelphia, Pa., assignor to Quaker Lace Company, Philadelphia, Pa.
Application January 12, 1952, Serial No. 18,031
Term of patent 7 years
(Cl. D92—26)



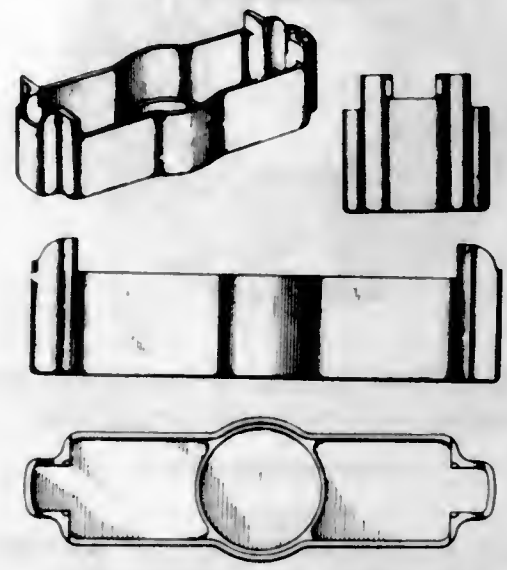
The ornamental design for a tablecloth, substantially as shown and described.

166,436
SHOE OR THE LIKE
Curt Wolfelt, New York, N. Y.
Application February 12, 1952, Serial No. 18,476
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a shoe or the like, substantially as shown.

166,437
HOLDER FOR AN HARMONICA AND AMPLIFIER PICKUP THEREFOR
Edward A. Zielinski, Berwyn, Ill., assignor of one-half to Joseph S. Kishel, Brookfield, Ill.
Application July 25, 1951, Serial No. 16,010
Term of patent 14 years
(Cl. D56—1)



The ornamental design for a holder for an harmonica and amplifier pickup therefor, substantially as shown and described.

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A. F. A. Learn and Earn System, Evansville, Ind. Partially printed forms. Serial No. 609,771, Apr. 15. Class 37.

Academy of Motion Picture Arts and Sciences, Hollywood, Calif. Books, pamphlets, and other publications. Serial No. 619,323, Apr. 15. Class 38.

Acme Business Control Co., Bradley Beach, N. J. Bookkeeping services. Serial No. 542,884, Apr. 15. Class 101.

Acme Cotton Products Co., Inc., New York, N. Y. Individually wrapped, sterile bandages. Serial No. 617,472, Apr. 15. Class 44.

Advertising and Business Development Division: *See*—
Advertising Division, Inc.

Advertising Division, Inc., assignee of Advertising and Business Development Division, Chicago, Ill. Publications. Serial No. 562,979, Apr. 15. Class 38.

Airborne Accessories Corporation, Hillside, N. J. Electrically operated and load limit switch controlled rotary actuator. Serial No. 609,620, Apr. 15. Class 21.

Aljo Books: *See*—
Towle, Alice S.

Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Wire, rods, bars, billets, etc. Serial No. 618,669, Apr. 15. Class 14.

Allied Chemical & Dye Corporation, New York, N. Y. Pamphlets or leaflets. Serial No. 617,526, Apr. 15. Class 38.

American Rondo Corporation, New Haven, Conn. Cardboard and paperboard partitioned liners. Serial No. 592,742, Apr. 15. Class 2.

Andersen & Bruuns Fabriker A/S, Copenhagen, Denmark. Bottle caps. Serial No. 546,455, Apr. 15. Class 50.

Anthracite Equipment Corporation, assignee: *See*—
Jeddo-Highland Coal Company.

Anvil Brand, Incorporated, High Point, N. C. House organ. Serial No. 618,225, Apr. 15. Class 38.

Aspden Associates: *See*—
Aspden, Milton H.

Aspden, Milton H., doing business as Aspden Associates, Greensboro, N. C. Cleaners, textile soaps and detergents, glass cleaners, etc. Serial No. 604,514, Apr. 15. Class 52.

Associated Business Consultants: *See*—
Shapiro, Robert B.

Associated Plywood Mills, Inc., Eugene, Oreg. Lumber and plywood. Serial No. 616,809, Apr. 15. Class 12.

Atkinson, J. & E., Limited, London, England. Toilet soap. Serial No. 615,527, Apr. 15. Class 52.

Auto-Flo Corporation, Detroit, Mich. Humidifiers. Serial No. 612,942, Apr. 15. Class 34.

Automatic Pump & Softener Corporation, Rockford, Ill. Multiple port valves. Serial No. 620,487, Apr. 15. Class 13.

Balmoral Company: *See*—
Fischer, Rase A.

Balzano, Alexander, Brooklyn, N. Y. Hair tonic. Serial No. 614,034, Apr. 15. Class 51.

Barry, Donald, Productions, Inc., Los Angeles, Calif. Toilet water. Serial No. 617,852, Apr. 15. Class 51.

Barton, Duer & Koch Paper Company, The, Baltimore, Md. Printing paper and correspondence envelopes. Serial No. 619,867, Apr. 15. Class 37.

Beaurline Industries, Inc., St. Paul, Minn. Cameras. Serial No. 619,131, Apr. 15. Class 26.

Be-Ge Manufacturing Co., Gilroy, Calif. Earth working and construction equipment. Serial No. 570,086, Apr. 15. Class 23.

Behm & Hagemann, Inc., Peoria, Ill. Garden seed, vegetable seed, flower seed, etc. Serial No. 616,405, Apr. 15. Class 1.

Behr-Manning Corporation, Troy, N. Y. Abrasives. Serial No. 584,215, Apr. 15. Class 4.

Behr-Manning Corporation, Troy, N. Y. Adhesives. Serial Nos. 598,630–1, Apr. 15. Class 5.

Behr-Manning Corporation, Troy, N. Y. Coated abrasives. Serial No. 614,129, Apr. 15. Class 4.

Berelson, D. B., & Co., San Francisco, Calif. Canned fruits and canned fruit juices. Serial No. 597,058, Apr. 15. Class 46.

Bergman Laboratory, Houston, Tex. Preparation for external application for treatment of athlete's foot, etc. Serial No. 617,692, Apr. 15. Class 18.

Berkeley Industries, Jersey City, N. J. Tables. Serial No. 613,699, Apr. 15. Class 32.

Besser Manufacturing Company, Alpena, Mich. Sintered aggregate. Serial No. 617,361, Apr. 15. Class 12.

Beyer, Gerhard R., New York, N. Y. Toys. Serial No. 609,431, Apr. 15. Class 22.

Biddle Putty Company, St. Louis, Mo. Glazing compound. Serial No. 616,792, Apr. 15. Class 12.

Big Joe Manufacturing Co., Chicago, Ill. Pneumatic hand power lifting trucks. Serial No. 618,673, Apr. 15. Class 23.

Bobrow Brothers, Inc., Philadelphia, Pa. Cigars. Serial No. 619,380, Apr. 15. Class 17.

Bonney, Inc., Chicago, Ill. Rouge, lipstick, and facial packs. Serial No. 613,045, Apr. 15. Class 51.

Borsella, Katherine, doing business under the name of Webster Curio Shop, New York, N. Y. Mending cement. Serial No. 620,392, Apr. 15. Class 5.

Budgit Distributors: *See*—
Nussdorf, Benzion.

Buffalo Galvanizing & Tinning Works, Inc., Buffalo, N. Y. Metal plating. Serial No. 596,773, Apr. 15. Class 106.

Burns, Frederick M. B., White Plains, N. Y. Women's and misses' dresses, suits, jackets, etc. Serial No. 611,341, Apr. 15. Class 39.

Cain, Ed., Chicago, Ill. Jewelry. Serial Nos. 616,937–8, Apr. 15. Class 28.

Campana Corporation, Batavia, Ill. Lotions for the skin. Serial No. 617,224, Apr. 15. Class 51.

Candy & Company, Inc., Chicago, Ill. Self polishing wax. Serial No. 618,154, Apr. 15. Class 4.

Caramba Mokafe Company: *See*—
Gulla, C. Victor.

Caterpillar Tractor Co., Peoria, Ill. Dump-wagons, wheel tractor-dump-wagon combinations, etc. Serial No. 575,190, Apr. 15. Class 19.

Central Chemical Company, Kansas City, Mo. Chemical solution. Serial No. 573,305, Apr. 15. Class 18.

Century Export, Inc., New York, N. Y. Canned fish and canned hams and pork. Serial No. 615,615, Apr. 15. Class 46.

Certain-Teed Products Corporation, Ardmore, Pa. Composite boards or panels. Serial No. 597,511, Apr. 15. Class 12.

Champion Paper and Fibre Company, The, Hamilton, Ohio. Paper and paper board. Serial No. 607,284, Apr. 15. Class 37.

Charles, Webb R., doing business under the name of Stello Products Co., Hutchinson, Kans. Hand operated grease and oil lubricator pumps. Serial No. 589,145, Apr. 15. Class 23.

Coe Laboratories, Inc., Chicago, Ill. Services comprising the molding and fashioning of dental prosthetic devices. Serial No. 551,693, Apr. 15. Class 106.

Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Pencils. Serial No. 614,984, Apr. 15. Class 37.

Columbian Art Works, Inc., Milwaukee, Wis. Blank checks, desk calendars, desk calendar pads, etc. Serial No. 588,788, Apr. 15. Class 37.

Cory Corporation, operating under the name Nicro Steel Products Co., Chicago, Ill. Coffee making apparatus. Serial No. 609,846, Apr. 15. Class 13.

Cotton States Chemical Co., Inc., West Monroe, La. Emulsifiable insecticide concentrates. Serial No. 608,199, Apr. 15. Class 6.

Cotton States Chemical Co., Inc., West Monroe, La. Insecticide concentrates. Serial No. 608,200, Apr. 15. Class 6.

Coty, Inc., New York, N. Y. Lipstick, rouge, and face powder. Serial Nos. 602,085–6, Apr. 15. Class 51.

Cribben and Sexton Company, Chicago, Ill. Stoves and rangers. Serial No. 591,148, Apr. 15. Class 34.

Crystal, David, Inc., New York, N. Y. Silk piece goods and rayon piece goods. Serial No. 619,606, Apr. 15. Class 42.

Dan-Dee Dog Company, The: *See*—
Waggoner, Clarence J.

Davis & Thompson Company, West Allis, Wis. Metal working machines. Serial No. 606,457, Apr. 15. Class 23.

Denison Mattress Factory, Denison, Tex. Lawn chairs, lawn settees and tables, breakfast tables and chairs, etc. Serial No. 548,807, Apr. 15. Class 32.

Deodorized Order of the Skunk, The, Plaistow, N. H. Encouragement and practice of fellowship and loyalty, etc. Serial No. 595,192, Apr. 15. Class 100.

Drexel Furniture Company, Drexel, N. C. Beds, chests, dressers, vanities, etc. Serial No. 609,285, Apr. 15. Class 32.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Sponge rubber rug underlay. Serial No. 616,087, Apr. 15. Class 50.

Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Aromatic amines, alkyl aminophenols, etc., for use in lubricating oils, motor fuels, and mineral oils. Serial No. 616,418, Apr. 15. Class 15.

Eastman Oil Well Survey Company, Denver, Colo. Directional drilling, core orienting and oil well surveys. Serial No. 552,643, Apr. 15. Class 103.

El Primo Cigar Company, San Francisco, Calif. Cigars. Serial No. 617,911, Apr. 15. Class 17.
Emeco Corporation, Hanover, Pa. Metal furniture. Serial No. 597,437, Apr. 15. Class 32.
Emoleum (Australia) Limited, Rozelle and Sydney, New South Wales, Australia. Asphaltic compounds and emulsions. Serial No. 593,655, Apr. 15. Class 12.
Epstein Garment Co., Inc., New York, N. Y. Ladies' dresses. Serial No. 609,766, Apr. 15. Class 39.
Eutectic Welding Alloys Corporation, New York, N. Y. Putty-like material. Serial No. 612,063, Apr. 15. Class 12.
Evans, John R., & Company, Camden, N. J. Leather. Serial No. 616,019, Apr. 15. Class 1.
Evree Products Company: *See*—
Schwartz, Hy.
Extrax Co., Brooklyn, N. Y. Frozen confections. Serial Nos. 616,550–4, Apr. 15. Class 46.
Failing, George E., Supply Company, Enid, Okla. Slush pumps, pump pistons, pump piston rods, etc. Serial No. 578,874, Apr. 15. Class 23.
Fairchild Publications, Inc., New York, N. Y. Magazine. Serial No. 613,983, Apr. 15. Class 38.
Fairchild Publications, Inc., New York, N. Y. Weekly newspaper. Serial No. 618,158, Apr. 15. Class 38.
Fairfield Glove Co., Fairfield, Iowa. Work gloves. Serial No. 587,864, Apr. 15. Class 39.
Federal Cigar Company, Inc., The, Red Lion, Pa. Cigars. Serial No. 598,844, Apr. 15. Class 17.
Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils, aromatic chemicals. Serial No. 617,610, Apr. 15. Class 18.
Fischer, Rose A., doing business as Balmoral Company, Chicago, Ill. Preparation for simultaneously shampooing, tinting and restoring natural color to the hair. Serial No. 579,974, Apr. 15. Class 51.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial Nos. 621,711–12, Apr. 15. Class 42.
General Dyestuff Corporation, New York, N. Y. Chemicals for use as reducing agents. Serial No. 618,919, Apr. 15. Class 3.
General Dyestuff Corporation, New York, N. Y. Chemicals for use as levelling and stripping agents in textile treatment. Serial No. 618,923, Apr. 15. Class 6.
Globe Brewing Company, The, Baltimore, Md. Beer. Serial No. 531,786, Apr. 15. Class 48.
Globe Brewing Company, The, Baltimore, Md. Beer. Serial No. 535,414, Apr. 15. Class 48.
Gourielli, Inc., New York, N. Y. Man's cologne, after shave lotion, deodorant lotion, etc. Serial No. 617,959, Apr. 15. Class 51.
Great Lakes Carbon Corporation, New York, N. Y. Diatomaceous earth for use as a filter aid. Serial No. 502,702, Apr. 15. Class 31.
Green Giant Company, Le Sueur, Minn. Canned corn. Serial No. 619,880, Apr. 15. Class 46.
Gregory, J. F., & Co., Kansas City, Mo. Artificial fish lure. Serial No. 598,300, Apr. 15. Class 22.
Gulf States Paper Corporation, Tuscaloosa, Ala. Wrapping paper and butcher's paper. Serial No. 605,417, Apr. 15. Class 37.
Gulla, C. Victor, doing business as Caramba Mokafe Company, Hoboken, N. J. Concentrates. Serial No. 599,090, Apr. 15. Class 45.
Harrell, Robert D., Inc., Los Angeles, Calif. Creating and suggesting designs and plans for the interior decoration and furnishing of homes and other buildings, etc. Serial No. 590,220, Apr. 15. Class 100.
Heyden Chemical Corporation, New York, N. Y. Feed supplement. Serial No. 600,831, Apr. 15. Class 18.
Hi-Acres Ranch, Inc., Thermal, Calif. Fresh grapes. Serial No. 620,214, Apr. 15. Class 46.
Hollingsworth & Whitney Company, Boston, Mass. Tag paper. Serial No. 536,385, Apr. 15. Class 37.
House of Louis Feder, Inc., New York, N. Y. Cleaning fluid. Serial No. 609,725, Apr. 15. Class 52.
Institutional Products Corporation, New York, N. Y. Scalpels, elastic and non-elastic bandages, surgical dressings, and gauze, etc. Serial No. 614,348, Apr. 15. Class 44.
International Telephone and Telegraph Corporation, New York, N. Y. House organs. Serial No. 610,217, Apr. 15. Class 38.
Iwersen Canning Company, Bellingham and Point Roberts, Wash. Canned clams, canned salmon and canned clam nectar. Serial Nos. 620,040–1, Apr. 15. Class 46.
Jackson, Byron, Co., Los Angeles, Calif. Weight indicators. Serial No. 607,576, Apr. 15. Class 26.
Jeddo-Highland Coal Company, Jeddo, assignor to Anthracite Equipment Corporation, Wilkes-Barre, Pa. Fireplace grill and/or grate. Serial No. 610,849, Apr. 15. Class 34.
Johns-Manville Corporation, New York, N. Y. Machinery packing. Serial No. 604,096, Apr. 15. Class 35.
Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. Serial No. 616,490, Apr. 15. Class 42.
Juilliard, A. D., & Co., Inc., New York, N. Y. Woolen piece goods. Serial No. 616,499, Apr. 15. Class 42.
Kamei, H., and Bros., Garden Grove, Calif. Fresh vegetables and fresh strawberries. Serial No. 619,623, Apr. 15. Class 46.
Kassel Export Company, New York, N. Y. Product which is a tinsel made predominantly of aluminum for use as metal ribbons and garlands for decorative purposes. Serial No. 615,837, Apr. 15. Class 50.
Keeney, George E., doing business as Rapid Colorprint Service, Glendale, Calif. Natural color photocopy services. 607,173, Apr. 15. Class 101.
Kent-Coffey Manufacturing Company, Lenoir, N. C. Furniture. Serial No. 598,308, Apr. 15. Class 32.
Key Products Inc., San Francisco, Calif. Dietary supplement. Serial No. 617,880, Apr. 15. Class 18.
Kliko Corporation, Seattle, Wash. Electrically operated game of chance. Serial No. 584,674, Apr. 15. Class 22.
Kuss, Ralph L., Findlay, Ohio. Preformed bags and package liners. Serial No. 603,451, Apr. 15. Class 2.
Lancôme: *See*—
Lancome, S. A.
Lancome, S. A., doing business as Lancôme, Paris, France. Toilet waters, eaux de cologne and skin lotions. Serial No. 575,914, Apr. 15. Class 51.
La Salle Chemical Company, Chicago, Ill. Cologne mist. Serial No. 598,858, Apr. 15. Class 51.
Laundair Corporation, Merriam, Kans. Air dehumidifier apparatus. Serial No. 610,983, Apr. 15. Class 34.
LeBlanc, Tut, Abbeville, La. Cartoon series. Serial No. 619,344, Apr. 15. Class 38.
Leslie-James, Los Angeles, Calif. Ladies' hats and cloches. Serial No. 605,961, Apr. 15. Class 39.
Lever Brothers Company, New York, N. Y. Skin cream. Serial No. 613,377, Apr. 15. Class 51.
Levow, David, New York, N. Y. Roofing tools. Serial No. 609,092, Apr. 15. Class 23.
Lindeteves Inc., New York, N. Y. Pistons and parts thereof, engine valves, cylinder sleeves, etc. Serial No. 609,934, Apr. 15. Class 23.
Lock & Son, Mangum, Okla. Healing oil. Serial No. 617,666, Apr. 15. Class 18.
Lockheed Aircraft Corporation, Burbank, Calif. Expanded cellular synthetic resin plastics. Serial No. 596,500, Apr. 15. Class 12.
Lowe and Company: *See*—
Lowe, Frank W.
Lowe, Frank W., doing business under the name and style of Lowe and Company, St. Louis, Mo. Alkaline detergent cleaner. Serial No. 612,867, Apr. 15. Class 52.
Lowe, Joe, Corporation, New York, N. Y. Frozen confections, and chocolate flavoring powder. Serial No. 608,281, Apr. 15. Class 46.
Loyola University Foundation: *See*—
Weiser Company.
Lucky 13 Company: *See*—
McGuigan, Thomas.
Mme. Charlotte's: *See*—
Means, Charlotte S.
Maintenance Inc., Wooster, Ohio. Floor patching material. Serial No. 577,394, Apr. 15. Class 12.
Maintenance Inc., Wooster, Ohio. Floor patching and resurfacing materials. Serial No. 577,395, Apr. 15. Class 12.
Malone, Norman, & Associates, Akron, Ohio. Monthly periodical. Serial No. 618,301, Apr. 15. Class 38.
Manufacturing Laboratories, Inc., Boston, Mass. Self-polishing floor wax. Serial No. 590,379, Apr. 15. Class 4.
Mary'and Biscuit Company, The, Baltimore, Md. Salted crackers. Serial No. 525,908, Apr. 15. Class 46.
Masser, Roy D., Reading, Pa. Personally conducting tours. Serial No. 617,923, Apr. 15. Class 105.
Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 596,591, Apr. 15. Class 18.
Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 596,609, Apr. 15. Class 18.
McGuigan, Thomas, trading under the name Lucky 13 Company, Philadelphia, Pa. Liquid for the treatment of athlete's foot. Serial No. 617,924, Apr. 15. Class 18.
Means, Charlotte S., doing business as Mme. Charlotte's, Gastonia, N. C. Pressing oil, hair and scalp cream. Serial No. 617,804, Apr. 15. Class 51.
Merchants Distributors, Inc., Boston, Mass. Pneumatic tire. Serial No. 617,805, Apr. 15. Class 35.
Michigan Dock and Manufacturing Company, assignee: *See*—
Michigan Dock Company.
Michigan Dock Company, assignor to Michigan Dock and Manufacturing Company, Battle Creek, Mich. Picnic tables and structural parts thereof. Serial No. 610,328, Apr. 15. Class 32.
Midwest Surgical Supply Co., assignor to Midwest Surgical Supply Co., Omaha, Nebr. Trays and containers therefor for receiving and holding medical, surgical, and laboratory implements and equipment. Serial No. 598,094, Apr. 15. Class 44.
Milburn, Frank S., Cincinnati, Ohio. Newspaper column. Serial No. 607,865, Apr. 15. Class 38.
Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control systems and control sets. Serial No. 589,796, Apr. 15. Class 26.
Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesive cements. Serial No. 619,097, Apr. 15. Class 5.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Pressure-sensitive adhesive coated abrasion resistant sheet material. Serial No. 619,143, Apr. 15. Class 5.
Miss Swank, Inc., New York, N. Y. Slips, petticoats, pajamas, etc. Serial No. 617,412, Apr. 15. Class 39.
Mitchell Industries, Inc., Mineral Wells, Tex. Aircraft antenna. Serial No. 610,134, Apr. 15. Class 21.
Monsanto Chemical Company, St. Louis, Mo. Glue. Serial No. 618,860, Apr. 15. Class 5.
Moose, Incorporated, New York, N. Y. Place mats. Serial No. 600,546, Apr. 15. Class 50.
Muller, Otto, doing business as Triological Institute, New York, N. Y. Weekly publication. Serial No. 619,308, Apr. 15. Class 38.
National Comics Publications, Inc., New York, N. Y. Publication. Serial No. 617,204, Apr. 15. Class 38.
National Rejectors, Inc., St. Louis, Mo. Coin changers, slug rejectors, and combinations thereof. Serial No. 579,614, Apr. 15. Class 26.
National Silver Company, New York, N. Y. Silverplated flatware. Serial No. 616,383, Apr. 15. Class 28.
National Vulcanized Fibre Company, Wilmington, Del. Vulcanized fibre. Serial No. 608,333, Apr. 15. Class 1.
Nellis Industries, Inc., New York, N. Y. Kitchen cabinets. Serial No. 606,231, Apr. 15. Class 32.
Newton, Philip S., Oakland, Calif. Glare shields and visors for automobiles. Serial No. 576,468, Apr. 15. Class 19.
New York Trade School, The, New York, N. Y. Tuning and repair of pianos. Serial No. 541,020, Apr. 15. Class 103.
Nicro Steel Products Co.: *See*—
Cory Corporation.
Northfield Cheese Corporation, Newark, N. J. Cheese. Serial Nos. 619,100–01, Apr. 15. Class 46.
Northwestern Research Corp., Chicago, Ill. Composition for reconditioning hair. Serial No. 615,402, Apr. 15. Class 51.
Nussdorf, Benzion, doing business as Budgit Distributors, New York, N. Y. Chemical washing compounds. Serial No. 590,123, Apr. 15. Class 52.
Nutrizion Products Co.: *See*—
Nutrision, Sylvia.
Nutrision, Sylvia, doing business as Nutrision Products Co., Pinehurst, N. C. Skin and scalp antiseptic, mouth antiseptic. Serial No. 572,914, Apr. 15. Class 18.
Pagliuso Engineering Company: *See*—
Pagliuso, R. J.
Pagliuso, R. J., doing business as Pagliuso Engineering Company, Glendale, Calif. Shower heads. Serial No. 620,929, Apr. 15. Class 13.
Paldar, Emil J., Company, Chicago, Ill. Shampoo bowls and lavatories. Serial No. 619,949, Apr. 15. Class 13.
Pappas, C., Company, Inc., Boston, Mass. Salad dressing, sandwich olives, mustard, etc. Serial No. 540,864, Apr. 15. Class 46.
Par-Fit Lingerie Corp., New York, N. Y. Women's and girls' slips, gowns, petticoats, etc. Serial No. 587,744, Apr. 15. Class 39.
Pataky, Madame Olga: *See*—
Pataky, Olga.
Pataky, Olga, doing business as Madame Olga Pataky, Philadelphia, Pa. All purpose liquid cosmetic cream. Serial No. 617,928, Apr. 15. Class 51.
Penguin Books, Inc., Baltimore, Md. Books. Serial No. 619,310, Apr. 15. Class 38.
Pentex Corporation, New York, N. Y. Draping sheets, head rest covers, towels, etc. Serial No. 609,879, Apr. 15. Class 37.
Peter Pan Foundations, Inc., New York, N. Y. Brassières. Serial No. 619,311, Apr. 15. Class 39.
Plastic Products Company, Detroit, Mich. Putty. Serial No. 605,491, Apr. 15. Class 12.
Plymouth Cordage Company, Plymouth and North Plymouth, Mass. Twisted paper cord and twisted paper and fiber twine. Serial No. 617,159, Apr. 15. Class 7.
Portland Plastics Limited, London, England. Artificial parts of the human body; tubing for anaesthetic airways, and catheters, etc. Serial No. 516,916, Apr. 15. Class 44.
Powell, Chick, Company: *See*—
Powell, Frank.
Powell, Frank, doing business as Chick Powell Company, Miami, Fla. Wall placque. Serial No. 614,311, Apr. 15. Class 50.
Presidents Consolidated Limited, Sydney, New South Wales, Australia. Gas, electric and kerosene operated household refrigerators, etc. Serial No. 608,567, Apr. 15. Class 31.
Procter & Gamble Company, The, Cincinnati, Ohio. White floating bar soap. Serial No. 527,666, Apr. 15. Class 52.
Promotional Enterprises, Inc.: *See*—
Roto-wrap, Ltd.
Publishers Syndicate, Chicago, Ill. Comic strip. Serial No. 615,996, Apr. 15. Class 38.
Pure Oil Company, The, Chicago, Ill. Services rendered to automobiles, trucks, and other automotive vehicles. Serial No. 532,252, Apr. 15. Class 103.
R and W Instrument Company, Brooklyn, N. Y. Device for determining unbalances in electrical potential resulting from the physical condition of the human body. Serial No. 552,698, Apr. 15. Class 44.
Rapid Colorprint Service: *See*—
Keeney, George E.
Rayflex Fabrics, Inc., New York, N. Y. Woven elastic fabrics. Serial No. 621,903, Apr. 15. Class 42.
Reliable Spring Company: *See*—
Reliable Spring & Wire Forms Company, The.
Reliable Spring & Wire Forms Company, The, doing business as Reliable Spring Company, Cleveland, Ohio. Metallic springs for use in flexible artificial dentures. Serial No. 617,629, Apr. 15. Class 44.
Republic Hard Facing Corporation, Bedford, Ohio. Motor exhaust and intake valves. Serial No. 618,553, Apr. 15. Class 23.
Resolin, Inc., Los Angeles, Calif. Phenolic plastic resin. Serial No. 604,327, Apr. 15. Class 6.
Roberts, J. W., & Son Inc., Tampa, Fla. Cigars. Serial No. 572,451, Apr. 15. Class 17.
Robinson, Richard E., Flushing, N. Y. Charts. Serial No. 608,224, Apr. 15. Class 38.
Rolock, Incorporated, Fairfield, Conn. Hand trucks and parts thereof. Serial No. 506,960, Apr. 15. Class 19.
Rosenhois, J., Inc., New York, N. Y. Piece goods. Serial No. 619,649, Apr. 15. Class 42.
Roto-Wrap, Ltd., assignor to Promotional Enterprises, Inc., New York, N. Y. Bread. Serial No. 620,171, Apr. 15. Class 46.
Rower Dental Mfg. Corp., Boston, Mass. Paste of calcium hydroxide for dental use. Serial No. 596,523, Apr. 15. Class 44.
Rubinstein, Helena, Inc., New York, N. Y. Container filled with a fragrant substance. Serial No. 597,353, Apr. 15. Class 51.
Rubinstein, Helena, Inc., New York, N. Y. Hand lotion. Serial No. 604,809, Apr. 15. Class 51.
Russak, Alexander J., doing business under the name Russak's Research Company, Elmhurst, N. Y. Natural or synthetic sponge. Serial No. 616,131, Apr. 15. Class 1.
Russak's Research Company: *See*—
Russak, Alexander J.
Safety Box Toe Company, Boston, Mass. Shoe lasts. Serial No. 612,473, Apr. 15. Class 50.
San-Jo Creations, Inc., New York, N. Y. Decorative displays in the nature of pictures. Serial No. 596,299, Apr. 15. Class 38.
Schwartz, Hy, doing business as Evree Products Company, Los Angeles, Calif. Liquid as a cleaner and permanent conditioner for hair. Serial No. 581,883, Apr. 15. Class 51.
Seaboard Seed Company, Philadelphia, Pa. Lawn grass seed. Serial No. 617,167, Apr. 15. Class 1.
Seal-Peel, Inc., New York, N. Y., and Van Dyke City, Mich. Resinous plastic solutions. Serial Nos. 624,054–5–6, Apr. 15. Class 16.
Sears, Roebuck and Co., Chicago, Ill. Sheep marking paint. Serial No. 492,001, Apr. 15. Class 16.
Serra International, Chicago, Ill. Fostering of vocations to the Roman Catholic priesthood, etc. Serial No. 600,514, Apr. 15. Class 100.
Shapiro, Robert B., doing business as Associated Business Consultants, Chicago, Ill., New York, N. Y., and Washington, D. C. Consulting management engineering services. Serial No. 526,516, Apr. 15. Class 101.
Shields, Inc. of Attleboro, Mass., New York, N. Y. Gold plated cuff links, tie bars, collar pins and key chains. Serial No. 614,901, Apr. 15. Class 28.
Shirley Fabrics Corp., New York, N. Y. Textile fabrics. Serial No. 621,910, Apr. 15. Class 42.
Sierra Products Company, Compton, Calif. Window panes of transparent molded plastic. Serial No. 595,231, Apr. 15. Class 50.
Signal Oil Company, assignor to Standard Oil Company of California, doing business as Signal Oil Company, Los Angeles, Calif. Lubrication services. Serial No. 589,229, Apr. 15. Class 103.
Simonian, K. H., & Company, San Francisco and Los Angeles, Calif. Fresh vegetables. Serial No. 619,718, Apr. 15. Class 46.
Simonis Company, The, Chicago, Ill. Liquid cleaning fluid. Serial No. 604,271, Apr. 15. Class 52.
Smith, Basil L., System, The, Philadelphia, Pa. Photoengraving of pictures, designs and images. Serial No. 607,357, Apr. 15. Class 101.
Smith, Werner G., Inc., Cleveland, Ohio. Core binder oils. Serial No. 619,148, Apr. 15. Class 5.
Societe Anonyme Societe Technique de Parfumerie F. Millot, Paris, France. Perfume, toilet water and cologne. Serial No. 566,362, Apr. 15. Class 51.
Spits, Paul, Company, Inc., The, New York, N. Y. Candy bar. Serial No. 621,483, Apr. 15. Class 46.
Standard Oil Company of California, assignee: *See*—
Signal Oil Company.
Star-Peerless Wall Paper Mills, Chicago, Ill. Wall paper. Serial No. 619,687, Apr. 15. Class 37.
Statton Furniture Manufacturing Company, The, Hagerstown, Md. Beds, dressers, chests, dressing tables, etc. Serial No. 595,170, Apr. 15. Class 32.
Stello Products Co.: *See*—
Charles, Webb R.
Sterling Hardware Manufacturing Company, Chicago, Ill. Various items of builders' hardware. Serial No. 615,142, Apr. 15. Class 13.
Stern, L. & H., Inc., New York, N. Y. Smokers' pipes. Serial No. 611,921, Apr. 15. Class 8.

Stoumen, Chas., & Son, Philadelphia, Pa. Textile rugs, carpets and carpeting. Serial No. 621,844, Apr. 15. Class 42.
Strong Cobb & Company, Inc., Cleveland, Ohio. Automatic ampule injecting device. Serial No. 568,466, Apr. 15. Class 18.
Talon, Inc., Meadville, Pa. Slide fasteners and components therefor. Serial No. 621,038, Apr. 15. Class 13.
Terri Lee, Inc., Lincoln, Nebr. Dolls. Serial No. 618,471, Apr. 15. Class 22.
Tingue, Brown & Co., New York, N. Y. Protective assemblies for ironer rolls and components thereof. Serial No. 611,865, Apr. 15. Class 24.
Towle, Alice S., doing business as Aljo Books, Cincinnati, Ohio. Partially printed menu record books. Serial No. 619,689, Apr. 15. Class 37.
Triological Institute: *See*—
Muller, Otto.
United Feature Syndicate, Inc., New York, N. Y. Comic drawings. Serial No. 554,537, Apr. 15. Class 38.
United Last Company, Portland, Maine, and Boston, Mass. Lasts for footwear. Serial No. 617,776, Apr. 15. Class 50.
United Newspapers Magazine Corporation, New York, N. Y. Newspaper or magazine feature. Serial No. 619,219, Apr. 15. Class 38.
United States Plywood Corporation, New York, N. Y. Logs. Serial No. 615,666, Apr. 15. Class 1.
United States Plywood Corporation, New York, N. Y. Flexible plastic sheeting or film. Serial No. 615,667, Apr. 15. Class 50.
United States Tobacco Company, Flemington, N. J., and New York, N. Y. Snuff. Serial No. 598,130, Apr. 15. Class 17.
United States Tobacco Company, Flemington, N. J., and New York, N. Y. Chewing tobacco, smoking tobacco and snuff. Serial No. 598,132, Apr. 15. Class 17.
Universal Atlas Cement Company, New York, N. Y. Hydraulic cements. Serial No. 569,727, Apr. 15. Class 12.
Universal Specialties Company: *See*—
Wilczewski, John W.
Upjohn Company, The, Kalamazoo, Mich. Medicinal preparation. Serial No. 602,583, Apr. 15. Class 18.
Van Cleef Bros., Inc., Chicago, Ill. Graphite in flake and powder form for lubrication. Serial No. 604,169, Apr. 15. Class 15.
Vanyon Lingerie Company, Los Angeles, Calif. Ladies' panties. Serial No. 619,415, Apr. 15. Class 39.
Volante, Peter P., Newton Center, Mass. Celery seeds. Serial No. 561,276, Apr. 15. Class 1.
Waggoner, Clarence J., doing business as The Dan-Dee Dog Company, Wichita Falls, Tex. Frankfurter sandwich. Serial No. 595,631, Apr. 15. Class 46.
Walthew, Allan F., San Pedro, Calif. Dandruff remover. Serial No. 613,098, Apr. 15. Class 51.
Wayne Pump Company, The, Fort Wayne, Ind. Pumps, air compressors, air dispensers, etc. Serial No. 619,425, Apr. 15. Class 23.
Webster Curio Shop: *See*—
Borsella, Katherine.
Weiser Company, South Gate, assignor to Loyola University Foundation, Los Angeles, Calif. Locking devices. Serial No. 576,242, Apr. 15. Class 25.
Western Tablet & Stationery Corporation, Dayton, Ohio. Paper tablets. Serial No. 526,045, Apr. 15. Class 37.
White Motor Company, The, Cleveland, Ohio. Motor trucks. Serial No. 578,657, Apr. 15. Class 19.
White Motor Company, The, Cleveland, Ohio. Motor trucks and short wheel base motorized highway vehicles. Serial Nos. 578,658–9, Apr. 15. Class 19.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental burs. Serial No. 593,575, Apr. 15. Class 44.
White, S. S., Dental Manufacturing Company, The, Philadelphia, Pa. Dental filling materials. Serial No. 614,277, Apr. 15. Class 44.
Wilczewski, John W., doing business as Universal Specialties Company, New York, N. Y. Wax polishes. Serial No. 606,447, Apr. 15. Class 4.
Wilson Memindex Company, Rochester, N. Y. Calendar pads. Serial No. 572,539, Apr. 15. Class 37.
Winthrop-Stearns Inc., New York, N. Y. Antimalarial preparation. Serial No. 618,068, Apr. 15. Class 18.
Yorkshire Copper Works Limited, The, Stourton, Leeds, England. Metal tubes. Serial No. 614,474, Apr. 15. Class 13.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, North Chicago, Ill. Container charged with a medicament. 557,474, Apr. 15; Serial No. 573,294, published Nov. 27, 1951. Class 18.
Absalon Brands, Inc., New York, N. Y. Cheeses and fruit preserves. 557,586, Apr. 15; Serial No. 604,287, published Dec. 11, 1951. Class 46.
Adams Rite Manufacturing Company, Glendale, Calif. Door and drawer pulls. 557,501, Apr. 15; Serial No. 585,777, published Jan. 29, 1952. Class 13.
Affiliated Retailers, Inc., New York, N. Y. Electrical stoves, electric vacuum cleaners, etc. 557,704, Apr. 15; Serial No. 612,885, published Jan. 22, 1952. Class 21.
Ahrens Publishing Company, Inc., New York, N. Y., by Electrical Information Publications, Inc., Madison, Wis. Monthly publications. 193,730, Jan. 6, 1925. Republished Apr. 15. Class 38.
Airborne Accessories Corporation, Hillside, N. J. Profile dressing and grinding machines. 557,675, Apr. 15; Serial No. 611,254, published Jan. 15, 1952. Class 23.
Allied Chemical & Dye Corporation: *See*—
Barrett Company, The.
Barrett Manufacturing Company.
All'ed Stores Corporation: *See*—
Hahn Department Stores, Inc.
Altheimer & Baer, Inc., Chicago, Ill. Power tools. 557,500, Apr. 15; Serial No. 585,735, published Dec. 18, 1951. Class 23.
American Beauty Macaroni Co., The, Kansas City, Mo. High-protein macaroni. 557,597, Apr. 15; Serial No. 606,066, published Dec. 4, 1951. Class 46.
American Biltrite Rubber Co., Inc.: *See*—
Panther Rubber Manufacturing Company.
American Brass Company, The, Waterbury, Conn. Brass. 557,613, Apr. 15; Serial No. 607,278, published Jan. 22, 1952. Class 14.
American Cyanamid Company: *See*—
Klipstein, A., & Co., Inc.
American Fabrics Company, The, Bridgeport, Conn. Piece goods, luncheon sets, pillow cases, bed sheets, etc. 557,545, Apr. 15; Serial No. 595,932, published Jan. 29, 1952. Class 42.
American Plastic Products Co., Detroit, Mich. Toilet seats. 557,741, Apr. 15; Serial No. 617,139, published Jan. 22, 1952. Class 13.
American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, now by merger United States Steel Company. Wire nails and brads. 557,739, Apr. 15; Serial No. 616,790, published Jan. 22, 1952. Class 13.
American Stores Company, Philadelphia, Pa. Paper kitchen bags. 557,520, Apr. 15; Serial No. 590,059, published Jan. 22, 1952. Class 2.
Andrews, Cynthia, Inc., New York, N. Y. Shampoo. 557,572, Apr. 15; Serial No. 601,347, published Jan. 15, 1952. Class 52.
Apparel Arts Publications, Inc., to Esquire, Inc., Chicago, Ill. Publication. 291,652, renewed Feb. 23, 1952. O. G. Apr. 15. Class 38.
Arcade Tea Bazaar: *See*—
Baumgarten, Rebecca.
Armour and Company, doing business as Armour Creameries, Chicago, Ill. Ham and bacon. 557,448, Apr. 15; Serial No. 540,967, published Jan. 29, 1952. Class 46.
Armour and Company, Chicago, Ill. Thyroid preparation. 557,652, Apr. 15; Serial No. 609,840, published Nov. 20, 1951. Class 18.
Armour Creameries: *See*—
Armour and Company.
Associated Portland Cement Manufacturers, Limited, The, London, England. Portland cement. 290,752, renewed Jan. 12, 1952. O. G. Apr. 15. Class 12.
Astor Exterminating Co., Boston, Mass. Rodenticide. 557,602, Apr. 15; Serial No. 606,451, published Jan. 22, 1952. Class 6.
Atkins & Durbrow, Inc., New York, N. Y. Moss peat. 294,771, renewed June 7, 1952. O. G. Apr. 15. Class 1.
Austin, Reed Limited, London, England. Men's outer shirts and collars. 557,639, Apr. 15; Serial No. 608,676, published Dec. 25, 1951. Class 39.
Auto Chlor System, Inc., Memphis, Tenn. Maintenance and repair of dishwashing and sterilising equipment. 557,756, Apr. 15; Serial No. 598,626, published Jan. 22, 1952. Class 103.
Automotive Advertisers Council, New Castle, Ind. Preparation of advertising pamphlets and circulars. 557,754, Apr. 15; Serial No. 586,513, published Jan. 22, 1952. Class 101.
Ayerst, McKenna & Harrison Limited, Rouses Point and New York, N. Y. Vitamins and minerals. 557,657, Apr. 15; Serial No. 609,997, published Nov. 20, 1951. Class 18.
B & M Tomato & Produce Company, St. Louis, Mo. Fresh Tomatoes. 557,683, Apr. 15; Serial No. 611,595, published Jan. 22, 1952. Class 46.
B & S Products Co.: *See*—
Born, Howard H.
Baffin Inc., New York, N. Y. Canned tuna fish, salmon, shrimps, etc. 557,770, Apr. 15; Serial No. 597,314. Class 46.
Barber-Greene Company, Aurora, Ill. Portable and stationary belt conveyors, belt and bucket loaders, etc. 557,566, Apr. 15; Serial No. 600,530, published Jan. 15, 1952. Class 23.

Barfair Laboratories, Inc., City Island, N. Y. Liquid rot and mildew proofer. 557,714, Apr. 15; Serial No. 613,666, published Dec. 25, 1951. Class 6.
Barker, Moore & Mein Company, Philadelphia, Pa. Vermifuge for removal of large roundworms and cecal worms in chickens and turkeys. 557,666, Apr. 15; Serial No. 610,609, published Nov. 27, 1951. Class 18.
Barker, Moore & Mein Company, Philadelphia, Pa. Vitamin supplement. 557,667, Apr. 15; Serial No. 610,610, published Nov. 27, 1951. Class 18.
Barker Poultry Equipment Co., Ottumwa, Iowa. Electrobleed machines. 557,749, Apr. 15; Serial No. 618,529, published Jan. 22, 1952. Class 21.
Barrett Company, The, to Allied Chemical & Dye Corporation, New York, N. Y. Compound used in the processing and treatment of rubber. 291,469, renewed Feb. 9, 1952. O. G. Apr. 15. Class 6.
Barrett Manufacturing Company, to Allied Chemical & Dye Corporation, New York, N. Y. Prepared natural and artificial pitch for roofing, waterproofing, insulating, etc. 85,408, re-renewed Feb. 20, 1952. O. G. Apr. 15. Class 12.
Bastian-Morley Co., Inc., La Porte, Ind. Water heaters and gas fire boilers. 557,763, Apr. 15; Serial No. 554,853. Class 34.
Bates Manufacturing Company, The, West Orange, N. J. Staples. 557,744, Apr. 15; Serial No. 617,274, published Jan. 22, 1952. Class 13.
Baumgarten, Rebecca, doing business as Arcade Tea Bazaar, Providence, R. I. Tea. 557,785, Apr. 15; Serial No. 611,634. Class 46.
Baybank Drug Co., Inc.: *See*—
Pineoleum Company, The.
Bayer, Herbert, Aspen, Colo. Table flatware, hollow-ware, and other articles of silverware and jewelry. 557,455, Apr. 15; Serial No. 554,004, published Dec. 25, 1951. Class 28.
Beacon Falls Rubber Shoe Company, The, Beacon Falls, Conn., to United States Rubber Company, New York, N. Y. Waterproof and canvas rubber-soled footwear. 291,884, renewed Feb. 23, 1952. O. G. Apr. 15. Class 39.
Beacon Manufacturing Company, New Bedford, Mass., to Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 294,722, renewed June 7, 1952. O. G. Apr. 15. Class 42.
Behr-Manning Corporation, Troy, N. Y. Abrasives. 557,477, Apr. 15; Serial No. 574,337, published Jan. 29, 1952. Class 4.
Belcher, George E., Company, Stoughton, Mass. Shoe trees. 557,622, Apr. 15; Serial No. 607,924, published Nov. 13, 1951. Class 50.
Belond, Jesse S., doing business as Southern California Muffler Company, assignor to Southern California Muffler Company, Culver City, Calif. Automotive exhaust systems and parts therefor. 557,640, Apr. 15; Serial No. 608,739, published Jan. 22, 1952. Class 23.
Bemis Bro. Bag Company, St. Louis, Mo. Bags. 557,589, Apr. 15; Serial No. 604,898, published Jan. 22, 1952. Class 2.
Bemis Bro. Bag Company, St. Louis, Mo. Paper window bags. 557,615, Apr. 15; Serial No. 607,312, published Jan. 22, 1952. Class 2.
Bick, Hans C., Inc., Reading, Pa. Women's nylon hosiery. 557,776, Apr. 15; Serial No. 603,107. Class 39.
Bienaime, Inc., New York, N. Y., assignee of Societe Anonyme, Bienaime. Perfumes, face creams rouge, etc. 557,759, Apr. 15; Serial No. 547,163. Class 51.
Bird & Son inc., East Walpole, Mass. Ornamental stone-appearing insulated siding. 557,673, Apr. 15; Serial No. 611,125, published Dec. 25, 1951. Class 12.
Blair Corset Company, Inc., Chicago, Ill. Corsets, girdles, brassières, etc. 307,992, Nov. 14, 1933. Republished Apr. 15. Class 39.
Bluette Co., The: *See*—
Henderson, Edmund M.
Bohn Aluminum & Brass Corporation, Detroit, Mich. Automobile engine parts. 557,573, Apr. 15; Serial No. 601,421, published Jan. 29, 1952. Class 23.
Bon Ami Company, The, New York, N. Y. Cleaning and polishing powder. 293,055, renewed Apr. 5, 1952. O. G. Apr. 15. Class 4.
Borden Company, The, New York, N. Y. Cement filler. 557,686, Apr. 15; Serial No. 611,999, published Jan. 1, 1952. Class 12.
Bordo Products Company, Chicago, Ill. Canned citrus food products. 557,690, Apr. 15; Serial No. 612,117, published Jan. 15, 1952. Class 46.
Bordo Products Company, Chicago, Ill. Canned citrus food products. 557,691, Apr. 15; Serial No. 612,119, published Jan. 15, 1952. Class 46.
Born, Howard H., doing business as B & S Products Co., New York, N. Y. Combs. 557,607, Apr. 15; Serial No. 606,851, published Jan. 22, 1952. Class 40.
Breier, Marcus, Sons, Inc., Amsterdam, N. Y. Sport jackets and coats. 557,483, Apr. 15; Serial No. 577,164, published Dec. 18, 1951. Class 39.
Britain-Hall, Inc.: *See*—
Ellis Coat Co., Inc., The.
Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Preparation for use as a sedative, analgesic and anti-pyretic. 557,511, Apr. 15; Serial No. 588,477, published Apr. 17, 1951. Class 18.
Cable Electric Products, Inc.: *See*—
Marks Products Co. Inc.
Cabot, Samuel, Incorporated, Boston, Mass. Waterproof, transparent, and flexible cement. 557,610, Apr. 15; Serial No. 607,071, published Jan. 22, 1952. Class 5.
California Fruit Exchange, Sacramento, Calif. Fresh applies, apricots, cherries, etc. 291,904, Feb. 23, 1932. Republished Apr. 15. Class 46.
Calix-A Caps Company: *See*—
Martel, Calixa C.
Camp and McInnes, Inc., Reading, Pa. Hosiery. 557,777, Apr. 15; Serial No. 603,764. Class 39.
Canadian Industries Limited, Montreal, Quebec, Canada. Chlorine. 557,592, Apr. 15; Serial No. 605,721, published Jan. 22, 1952. Class 6.
Can-Rite Food Products Company, Modesto, Calif. Canned tomato product. 557,496, Apr. 15; Serial No. 584,478, published Jan. 15, 1952. Class 46.
Cap-Tur-Neck Co., Los Angeles, Calif. Knitted caps. 557,600, Apr. 15; Serial No. 606,266, published Jan. 22, 1952. Class 39.
Cardinal Hat Company, St. Louis, Mo. Men's and boys' sport hats, outer shirts, jackets, etc. 557,470, Apr. 15; Serial No. 569,048, published Dec. 25, 1951. Class 39.
Carey Salt Company, The, Hutchinson, Kans. Salt. 290,730, renewed Jan. 12, 1952. O. G. Apr. 15. Class 46.
Castle Distributing Corporation, New York, N. Y. Porcelain figurines. 557,641, Apr. 15; Serial No. 608,981, published Nov. 13, 1951. Class 50.
Catarrhozone Company, The: *See*—
Comstock, W. H., Company, Limited, The.
Cee-Bee Chemical Co., Inc.: *See*—
Champion & Barber, Inc.
Cee-Bee Products: *See*—
Champion & Barber, Inc.
Central Bag & Burlap Company, Chicago, Ill. Textile bags, paper lined textile bags and laminated textile bags. 557,697, Apr. 15; Serial No. 612,441, published Jan. 22, 1952. Class 2.
Central Plastic Corporation, Leominster, Mass. Plastic sewing boxes, candy boxes, parts boxes, etc. 557,699, Apr. 15; Serial No. 612,587, published Jan. 22, 1952. Class 2.
Champion & Barber, Inc., doing business as Cee-Bee Products to Cee-Bee Chemical Co., Inc., Los Angeles, Calif. Detergent cleaning compounds. 288,110, renewed Oct. 20, 1951. O. G. Apr. 15. Class 52.
Champion Paper and Fibre Company, The, Hamilton, Ohio. Mineral coated paper. 557,446, Apr. 15; Serial No. 527,439, published Jan. 22, 1952. Class 37.
Chemstrand Corporation, The, Philadelphia, Pa. Fabrics. 557,506, Apr. 15; Serial No. 586,621, published Jan. 29, 1952. Class 42.
Cherry-Burrell Corporation, Chicago, Ill. Metal valves, pod type vat outlets, etc. 444,678, Apr. 15; Serial No. 485,429, published Jan. 15, 1952. Class 13.
Chicago Pharmacal Company, Chicago, Ill. Preparation used in the treatment of obesity. 557,648, Apr. 15; Serial No. 609,532, published Nov. 20, 1951. Class 18.
Ciba Limited, Basel, Switzerland. Chemical products. 557,623–4, Apr. 15; Serial Nos. 607,935–6, published Jan. 22, 1952. Class 6.
Ciba Limited, Basel, Switzerland. Coal tar colors. 557,625, Apr. 15; Serial No. 607,940, published Jan. 22, 1952. Class 6.
Clayton & Lambert Manufacturing Company, Louisville, Ky. Silos, corn cribs and grain bins. 557,734, Apr. 15; Serial No. 615,881, published Jan. 22, 1952. Class 2.
Cluett, Peabody & Co., Inc., Troy, N. Y. Men's and boys' outer shirts and underwear. 557,708, Apr. 15; Serial No. 613,120, published Jan. 22, 1952. Class 39.
Cocilana, Inc.: *See*—
Windt, Benn.
Cohen, Jules S., New York, N. Y. Hats, suits, overcoats, etc. 557,579, Apr. 15; Serial No. 602,890, published Dec. 25, 1951. Class 39.
Colgate-Palmolive-Peet Company, Chicago, Ill., to Seventeen, Rye, N. Y. Toilet soap. 290,477, renewed Jan. 5, 1952. O. G. Apr. 15. Class 52.
Commercial Solvents Corporation, New York, N. Y. Insecticides. 557,717, Apr. 15; Serial No. 613,974, published Jan. 22, 1952. Class 6.
Compania Ron Bacardi, S. A., Santiago de Cuba, Cuba. Rum. 284,224, renewed June 16, 1951. O. G. Apr. 15. Class 49.
Comstock Canneries, Inc., to Comstock Canning Corporation, Newark, N. Y. Canned fruits, canned vegetables, and canned berries. 293,354, renewed Apr. 19, 1952. O. G. Apr. 15. Class 46.
Comstock Canning Corporation: *See*—
Comstock Canneries, Inc.
Comstock, W. H., Company Limited, The, doing business under the trade name and style of The Catarrhozone Company, Montreal, Quebec, Canada, and Morristown, N. Y. Remedy for coughs, colds, etc. 557,664, Apr. 15; Serial No. 610,414, published Nov. 27, 1951. Class 18.
Connecticut Chemical Research Corp., Bridgeport, Conn. Self-polishing wax. 557,567, Apr. 15; Serial No. 600,571, published Dec. 25, 1951. Class 4.

Consolidated Iron-Steel Mfg. Co., The, Cleveland, Ohio. Screen door hinges. 557,499, Apr. 15; Serial No. 585,566, published Jan. 29, 1952. Class 13.

Coolerator Company, The, Duluth, Minn. Refrigerators. 557,530, Apr. 15; Serial No. 591,837, published May 8, 1951. Class 31.

Cordray, Mrs. Caroline, Cleveland, Ohio. Kits or packages containing cooking tubes or molds, etc. 557,528, Apr. 15; Serial No. 591,358, published Nov. 13, 1951. Class 50.

Corn Products Refining Company: *See*—
National Starch Company.

Coyne Chemical Company: *See*—
Coyne, Sidney J.

Coyne, Sidney J., doing business as Coyne Chemical Company, Los Angeles, Calif. Insecticides. 557,570, Apr. 15; Serial No. 600,946, published Jan. 22, 1952. Class 6.

Craft, Irene F., Ridgewood, N. J., assignor to J. L. Younghusband, Chicago, Ill. Perfumes. 557,524, Apr. 15; Serial No. 590,653, published Jan. 1, 1952. Class 51.

Cramer Chemical Co., The, Gardner, Kans. Theatrical grease paint. 557,515, Apr. 15; Serial No. 589,569, published Dec. 25, 1951. Class 51.

Cramer, Melvin B., doing business as Vi-de-Lan, Atlantic City, N. J. Medicated hair and scalp treatment. 557,507, Apr. 15; Serial No. 586,793, published Aug. 28, 1951. Class 18.

Cudahy Packing Company, The, to The Cudahy Packing Company, Chicago, Ill. Metal-polish. 86,699, renewed May 28, 1952. O. G. Apr. 15. Class 4.

Curtman Co., Inc., The, Providence, R. I. Jewelry. 557,571, Apr. 15; Serial No. 601,098, published Nov. 13, 1951. Class 28.

Danbury Rubber Company, Inc., The, Danbury, Conn. Pre-shaped rubber covers. 557,595, Apr. 15; Serial No. 605,999, published Nov. 13, 1951. Class 50.

Danca Products Corporation, New York, N. Y. Wide-angle lens for installation in a door for use as a door peep. 557,538, Apr. 15; Serial No. 593,585, published Dec. 11, 1951. Class 26.

Daniels, Jack, Brooklyn, N. Y. Wearing apparel. 557,465, Apr. 15; Serial No. 565,238, published Dec. 11, 1951. Class 39.

Daniels, M. B., & Co., Inc., New York, N. Y. Spool racks. 557,649, Apr. 15; Serial No. 609,587, published Jan. 22, 1952. Class 40.

Decca Records, Inc., New York, N. Y. Grooved phonograph records. 557,643, Apr. 15; Serial No. 609,079, published Jan. 22, 1952. Class 36.

Defiance Automatic Screw Company, The, Defiance, Ohio. All types of steel and alloy steel components. 557,568, Apr. 15; Serial No. 600,822, published Jan. 22, 1952. Class 14.

Demi-Tint Industries: *See*—
Sommers, Edward S.

Diamond Match Company, The, New York, N. Y. Paper napkins. 557,512, Apr. 15; Serial No. 588,789, published Jan. 15, 1952. Class 37.

Diamond Match Company, The, New York, N. Y. Plates. 557,730, Apr. 15; Serial No. 614,873, published Jan. 8, 1952. Class 2.

Di Santo & Company: *See*—
Di Santo, Joseph.

Di Santo, Joseph, doing business as Di Santo & Company, Duluth, Minn. Non-alcoholic, maltless, concentrated syrups. 290,574, renewed Jan. 12, 1952. O. G. Apr. 15. Class 45.

Ditto, Incorporated, Chicago, Ill. Hectograph carbon paper and duplicating units. 557,471, Apr. 15; Serial No. 571,321, published Nov. 20, 1951. Class 11.

Dr. Hiltebrandt Zahnfabrik Aktiengesellschaft to Vita Zahnfabrik H. Rauter o. H. G., Essen, Germany. Artificial teeth. 259,601, renewed Aug. 3, 1949. O. G. Apr. 15. Class 44.

Doughboy Industries, Inc., New Richmond, Wis. Thin resinous fabric-like film. 557,632, Apr. 15; Serial No. 608,059, published Jan. 15, 1952. Class 1.

Doughty, John C., Limited, Leicester, England. Knitted socks and shoes, slippers, etc. 557,539, Apr. 15; Serial No. 593,911, published Jan. 22, 1952. Class 39.

Dri-Set Sales Company, Chattanooga, Tenn. Men's, boys', women's, misses' and children's underwear, men's, boys', women's, misses' and children's sleeping garments, etc. 557,644, Apr. 15; Serial No. 609,123, published Jan. 22, 1952. Class 39.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Synthetic polyester fibers. 557,698, Apr. 15; Serial No. 612,487, published Jan. 15, 1952. Class 1.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Wetting and penetrating agent and dyeing assistant. 557,724, Apr. 15; Serial No. 614,429, published Jan. 22, 1952. Class 6.

E-Z Mark Tools: *See*—
Priebe, William A.

Early, Charles, & Co. Limited, Witney, England. Wool blankets. 557,554, Apr. 15; Serial No. 597,952, published Jan. 29, 1952. Class 42.

Easterday Paint and Chemical Company, Kenosha, Wis. Vent screens. 557,787, Apr. 15; Serial No. 613,839. Class 12.

Eaton, Charles A., Company: *See*—
Richards & Brennan Co.

Eddy Bakeries, Inc., Helena, Mont. Bread. 557,462, Apr. 15; Serial No. 561,737, published Sept. 4, 1951. Class 46.

Electrical Information Publications, Inc.: *See*—
Ahrens Publishing Company, Inc.

Ellis and Ellis, Brooklyn, N. Y. Humidor made of glass. 444,681, Apr. 15; Serial No. 524,787, published Nov. 13, 1951. Class 33.

Ellis Coat Co., Inc., The, Manchester, by Britain-Hall, Inc., New Britain, Conn. Women's and misses' coats and raincoats. 429,794, May 20, 1947. Republished Apr. 15. Class 39.

Embroidery Merchants Association, Inc., New York, N. Y. Embroidered piece goods. 557,789, Apr. 15; Serial No. 576,686. Class 42.

Emhart Manufacturing Company, assignee: *See*—
Rockwell Manufacturing Company.

Ercona Camera Corporation, New York, N. Y. Cameras. 557,718, Apr. 15; Serial No. 613,979, published Jan. 15, 1952. Class 26.

Ercona Camera Corporation, New York, N. Y. Cameras. 557,719, Apr. 15; Serial No. 613,981, published Jan. 15, 1952. Class 26.

Ercona Camera Corporation, New York, N. Y. Motion-picture cameras and projectors. 557,720, Apr. 15; Serial No. 613, 982, published Jan. 15, 1952. Class 26.

Esquire, Inc.: *See*—
Apparel Arts Publications, Inc.

Etchison Hat Company, Inc., Richmond, Va. Hats and caps. 557,616, Apr. 15; Serial No. 607,324, published Jan. 22, 1952. Class 39.

Fairbanks, Morse & Co., Chicago, Ill. Internal combustion engines, pumps, pumping plants, etc. 300,399, Jan. 17, 1933. Republished Apr. 15. Class 23.

Farrington Manufacturing Company, Boston, Mass. Mounted and unmounted blank printing plates. 557,626, Apr. 15; Serial No. 607,984, published Nov. 13, 1951. Class 50.

Fenton, Carl E., doing business as Fenton's Feeders, Arcadia, Fla. Feeders for livestock and poultry. 557,786, Apr. 15; Serial No. 612,248. Class 50.

Fenton's Feeders: *See*—
Fenton, Carl E.

Filter Materials, Inc., Waupaca, Wis. Filter materials. 557,478, Apr. 15; Serial No. 574,501, published Jan. 8, 1952. Class 23.

Fine Arts Sterling Silver Company, Philadelphia, Pa. Silver flatware. 557,454, Apr. 15; Serial No. 552,963, published Dec. 25, 1951. Class 28.

Firestone Tire & Rubber Company, The, Akron, Ohio. Plastic film. 557,498, Apr. 15; Serial No. 584,902, published Jan. 29, 1952. Class 42.

Firm of M. Hohner, Trossingen, Germany, and New York, N. Y., to M. Hohner, Inc., New York, N. Y. Mouth-harmonicas. 38,458, re-renewed June 17, 1952. O. G. Apr. 15. Class 36.

Fleet Reserve Association, Washington, D. C. Periodicals. 290,861, Jan. 19, 1932. Republished Apr. 15. Class 38.

Flexigrip, Inc., New York, N. Y. Plastic slide fasteners. 557,731, Apr. 15; Serial No. 615,375, published Jan. 22, 1952. Class 13.

Flo-Bar, Limited, New York, N. Y. Refillable valve-controlled fluid soap dispensers. 557,494, Apr. 15; Serial No. 582,830, published Jan. 22, 1952. Class 2.

Foley & Company, Chicago, Ill. Antibiotic anesthetic capsules. 557,659, Apr. 15; Serial No. 610,209, published Nov. 27, 1951. Class 18.

Food Machinery and Chemical Corporation, San Jose, Calif. Tractors. 557,485, Apr. 15; Serial No. 577,378, published Nov. 20, 1951. Class 23.

Food Machinery and Chemical Corporation, San Jose, Calif. Agricultural and horticultural spraying and dusting machines. 557,487, Apr. 15; Serial No. 579,679, published Jan. 15, 1952. Class 23.

Food Machinery and Chemical Corporation, San Jose, Calif. Reciprocating pumps. 557,505, Apr. 15; Serial No. 586,408, published Jan. 29, 1952. Class 23.

Freezing Equipment Sales, Inc., York, Pa. Automatic quick freezing machines. 557,509, Apr. 15; Serial No. 600,827, published Jan. 1, 1952. Class 31.

Fungitrol Chemicals Incorporated, Hillside, N. J. Economic poisons composition. 557,678, Apr. 15; Serial No. 611,418, published Dec. 25, 1951. Class 6.

Garod Radio Corporation: *See*—
Majestic Household Utilities Corporation.

Garod Radio Corporation, New York, N. Y. Radio receiving sets, television receiving sets, automatic phonographs and combinations of any of them. 557,750, Apr. 15; Serial No. 618,573, published Jan. 22, 1952. Class 21.

Geigy Company, Inc., New York, N. Y. Preparations for killing weeds and destroying vermin, insecticides, fungicides, etc. 557,703, Apr. 15; Serial No. 612,737, published Jan. 22, 1952. Class 6.

General Aniline & Film Corporation, New York and Binghamton, N. Y. Chemicals and preparations and compounds thereof. 557,517, Apr. 15; Serial No. 589,718, published Jan. 22, 1952. Class 6.

General Ceramics and Steatite Corp. Keasbey, N. J. Sectional cascade coolers. 557,737, Apr. 15; Serial No. 616,168, published Jan. 8, 1952. Class 31.

General Mills, Inc., Minneapolis, Minn. Wheat flour. 291,751, renewed Feb. 23, 1952. O. G. Apr. 15. Class 46.

General Motors Corporation, Detroit, Mich. Ferrous and non-ferrous metal castings. 557,502, Apr. 15; Serial No. 585,996, published Jan. 22, 1952. Class 14.

Geometric Stamping Company, The, Cleveland, Ohio. Metal stampings. 557,548, Apr. 15; Serial No. 596,571, published Jan. 22, 1952. Class 14.

Gerselle Pharmacal Company, Chicago, Ill. Body lotion for application to the skin to aid in the prevention of bed sores, etc. 557,518, Apr. 15; Serial No. 589,782, published Nov. 20, 1951. Class 18.

Gevaert Photo-Producten N. V., Mortsel, Belgium. Light sensitive materials for use in photography. 557,593–4, Apr. 15; Serial Nos. 605,950–1, published Dec. 11, 1951. Class 26.

Gillette Safety Razor Company: *See*—
Lenwells, Inc.

Gilman, J. P., Granite Company, Kansas City, Kans. Monuments, markers and memorials. 557,460, Apr. 15; Serial No. 560,330, published Dec. 25, 1951. Class 50.

Given Manufacturing Company, Los Angeles, Calif. Machines for grinding up garbage. 444,485, May 1, 1951. Corrected. O. G. Apr. 15. Class 23.

Given Manufacturing Company, Los Angeles, Calif. Electric garbage disposal units. 549,766, Oct. 23, 1951. Corrected. O. G. Apr. 15. Class 21.

Globe Slicing Machine Co., Inc., Stamford, Conn. Computing commodity scales. 557,687, Apr. 15; Serial No. 612,013, published Jan. 22, 1952. Class 26.

Gold Medal Folding Furniture Co., Racine, Wis. Couch hammocks, gliders, lawn and porch swings, etc. 289,256, renewed Nov. 24, 1951. O. G. Apr. 15. Class 32.

Gotham Tissue Corporation, Salem, N. Y. Toilet paper, paper facial tissues, paper napkins, etc. 557,653, Apr. 15; Serial No. 609,855, published Jan. 15, 1952. Class 37.

Granat Bros., San Francisco, Calif. Finger rings. 557,531, Apr. 15; Serial No. 592,368, published Oct. 31, 1950. Class 28.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Women's caps, jackets, sweaters, etc. 557,627, Apr. 15; Serial No. 607,991, published Dec. 25, 1951. Class 39.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Men's caps, jackets, sweaters, etc. 557,628, Apr. 15; Serial No. 607,994, published Dec. 25, 1951. Class 39.

Great Plains Seed Co., Sioux Falls, S. Dak. Alfalfa seed. 557,447, Apr. 15; Serial No. 531,110, published Jan. 15, 1952. Class 1.

Greco Canning Co., Inc., by Mission Valley Canning Co., Inc., San Jose, Calif. Canned fruits, canned vegetables. 291,197, Feb. 2, 1932. Republished Apr. 15. Class 46.

Greco Canning Company, Inc., by Mission Valley Canning Co., Inc., San Jose, Calif. Canned fruits. 236,602, Dec. 20, 1927. Republished Apr. 15. Class 46.

Grigsby-Grunow Company, assignee: *See*—
Majestic Household Utilities Corporation.

Grizzly Manufacturing Company, Los Angeles and Bell, Calif., and Paulding, Ohio. Brake lining. 557,574, Apr. 15; Serial No. 601,900, published Dec. 25, 1951. Class 35.

Gulf Oil Corporation: *See*—
Gulf Refining Company.

Gulf Refining Company, Port Arthur, Tex., to Gulf Oil Corporation, Pittsburgh, Pa. Periodical publication. 290,381, renewed Jan. 5, 1952. O. G. Apr. 15. Class 38.

Hadley, Charles R., Company, Los Angeles, Calif. Partially printed marginally punched cards. 557,642, Apr. 15; Serial No. 609,035, published Jan. 15, 1952. Class 37.

Hafela, Courtney, Orange, N. J. Hosiery. 557,472, Apr. 15; Serial No. 571,966, published Mar. 7, 1950. Class 39.

Hahn Department Stores, Inc., Wilmington, Del., to Allied Stores Corporation, New York, N. Y. Women's hand bags. 291,151, renewed Feb. 2, 1952. O. G. Apr. 15. Class 3.

Hahn Department Stores, Inc., Wilmington, Del., to Allied Stores Corporation, New York, N. Y. Men's and boys' clothing and accessories. 293,918, renewed May 10, 1952. O. G. Apr. 15. Class 39.

Hahn Department Stores, Inc., Wilmington, Del., to Allied Stores Corporation, New York, N. Y. Women's ready-to-wear and accessories. 294,039, renewed May 17, 1952. O. G. Apr. 15. Class 39.

Hanau Engineering Company, Inc., Buffalo, N. Y. Bunsen burners. 557,601, Apr. 15; Serial No. 606,379, published Jan. 22, 1952. Class 26.

Hansen's Processes, Inc., Park Ridge, Ill. Poultry nests. 557,778, Apr. 15; Serial No. 604,095. Class 50.

Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Polishing, brushing and buffing wheels. 557,766, Apr. 15; Serial No. 577,884. Class 4.

Happiness Tours, Chicago, Ill. Arranging and conducting travel tours and arranging hotel accommodations for tourists. 557,757, Apr. 15; Serial No. 604,694, published Jan. 22, 1952. Class 105.

Happiness Tours, doing business under the name and style of J. Stuart Rotchford Travel Service, Chicago, Ill. Arranging and conducting travel tours and arranging hotel accommodations for tourists. 557,758, Apr. 15; Serial No. 604,705, published Jan. 22, 1952. Class 105.

Hardman, H. V., Co., Incorporated, Belleville, N. J. Cement. 557,596, Apr. 15; Serial No. 606,015, published Jan. 22, 1952. Class 5.

Hastings Manufacturing Company, Hastings, Mich. Piston rings. 290,522, renewed Jan. 5, 1952. O. G. Apr. 15. Class 35.

Hat Corporation of America, Norwalk, Conn. Hats. 557,603, Apr. 15; Serial No. 606,472, published Dec. 25, 1951. Class 39.

Helde, Henry, Incorporated, New York, N. Y. Candies, candied nut products. 293,766, renewed May 3, 1952. O. G. Apr. 15. Class 46.

Heli-Coil Corporation, Danbury, Conn. Gages, 557,679, Apr. 15; Serial No. 611,425, published Jan. 29, 1952. Class 26.

Henderson, Edmund M., doing business under the firm name and style of The Bluette Co., Ocean City, N. J. Crisp cheese filled toasted appetizers. 557,608, Apr. 15; Serial No. 606,975, published Jan. 29, 1952. Class 46.

Heppenstall Company, Pittsburgh, Pa. Annealed hot-worked alloy die steel. 557,614, Apr. 15; Serial No. 607,289, published Jan. 22, 1952. Class 14.

Hillsboro Plantation: *See*—
Hillsboro Plantation, Inc.

Hillsboro Plantation, Inc., doing business as Hillsboro Plantation, Belle Glade, Fla. Fresh vegetables. 557,781, Apr. 15; Serial No. 607,291. Class 46.

Hoffmann-La Roche Inc., Nutley, N. J. General tonic. 295,234, renewed June 21, 1952. O. G. Apr. 15. Class 18.

Hohner, M., Inc.: *See*—
Firm of M. Hohner.

Holmes Cosmetics, Inc., Baltimore, Md. Home permanent wave kit. 557,702, Apr. 15; Serial No. 612,692, published Jan. 15, 1952. Class 44.

Holsum Products: *See*—
Jewett & Sherman Company.

Hutchinson-Kansas Salt Company, The, Hutchinson, Kans., to Morton Salt Company, Chicago, Ill. Salt. 86,991, re-renewed June 18, 1952. O. G. Apr. 15. Class 46.

Ice Klat Packing Company, Salinas, Calif. Fresh lettuce. 557,461, Apr. 15; Serial No. 560,412, published Jan. 15, 1952. Class 46.

Imperial Chemical Industries Limited, London and Millbank, London, England. Slide fasteners, union joints, and couplings, etc. 557,661, Apr. 15; Serial No. 610,321, published Jan. 22, 1952. Class 13.

Imperial Optical Company Ltd., Toronto, Ontario, Canada. Flat top bifocal ophthalmic lenses. 557,582, Apr. 15; Serial No. 603,344, published Jan. 22, 1952. Class 26.

Indiana Steel Products Company, The, Valparaiso, Ind. Permanent magnet alloys. 557,618, Apr. 15; Serial No. 607,502, published Jan. 22, 1952. Class 14.

Indiana Steel Products Company, The, Valparaiso, Ind. Magnetic alloys. 557,619, Apr. 15; Serial No. 607,503, published Jan. 22, 1952. Class 14.

Industrial Furnace Corporation, Buffalo, to Z-Metals, Incorporated, New York, N. Y. Metal castings. 291,135, renewed Jan. 26, 1952. O. G. Apr. 15. Class 14.

International Service Association: *See*—
Kirby, Donald R.

Irving, John, Shoe Corporation, Boston, Mass. Women's shoes. 534,909, Dec. 19, 1950. Corrected. O. G. Apr. 15. Class 39.

Jackson-Mitchell Pharmaceuticals, Inc.: *See*—
Special Milk Products, Inc.

Jacoby-Bender, Inc., New York, N. Y. Bracelets and watch bracelets. 557,631, Apr. 15; Serial No. 608,039, published Dec. 25, 1951. Class 28.

Jamestown Finishing Products, Inc., Jamestown, N. Y. Plastic sheet material simulating leather. 557,534, Apr. 15; Serial No. 593,275, published Nov. 13, 1951. Class 50.

Jewett & Sherman Company, doing business as Holsum Products, Milwaukee, Wis. Honey, salad dressing, prepared mustard, etc. 557,620, Apr. 15; Serial No. 607,818, published Jan. 29, 1952. Class 46.

Johnson, C. S., Company, The, Champaign, Ill. Buckets, bins and hoppers. 557,735, Apr. 15; Serial No. 615,933, published Jan. 22, 1952. Class 2.

Johnson-March Corporation, The, Philadelphia, Pa. Chemical compound. 557,736, Apr. 15; Serial No. 616,103, published Jan. 22, 1952. Class 6.

Judson Engineering Corporation, Laconia and Franklin, N. H. Testing devices. 557,728, Apr. 15; Serial No. 614,477, published Dec. 11, 1951. Class 26.

Kabushiki Kaisha Hirao Sampei Shoten, Tokyo, Japan. Dentrifrice. 255,864, renewed Apr. 30, 1949. O. G. Apr. 15. Class 51.

Kashins, Lou, New York, N. Y. Wooden and plastic receptacle. 557,467, Apr. 15; Serial No. 566,152, published Jan. 29, 1952. Class 2.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Department Stores Company, St. Louis, Mo. Sanitary napkins. 350,200, Sept. 21, 1937. Republished Apr. 15. Class 44.

Kaufmann Department Stores, Inc., Pittsburgh, Pa., by The May Deparment Stores Company, St. Louis, Mo. Dresses, frocks, suits, etc. 373,319, Dec. 5, 1939. Republished Apr. 15. Class 39.

Kautzky Manufacturing Company, Fort Dodge, Iowa. Artificial edible fish bait. 557,636, Apr. 15; Serial No. 608,401, published Jan. 22, 1952. Class 22.

Kayser, Julius, & Co., New York, N. Y. Ladies' underwear. 293,540, renewed Apr. 26, 1952. O. G. Apr. 15. Class 39.

Kent, Alla, New York, N. Y. Ladies' caps. 557,709, Apr. 15; Serial No. 613,135, published Jan. 22, 1952. Class 39.

Kent-Moore Organization, Inc., Detroit, Mich. Hand, clamping, cutting, tightening, bending, driving, pulling, and work piece supporting tools, etc. 557,481, Apr. 15; Serial No. 577,124, published Jan. 15, 1952. Class 23.

Keystone Watch Case Company, The, Philadelphia, Pa., to The Riverside Metal Company, Riverside, N. J. Watches, watch-movements, watchcases, and parts thereof. 86,412, re-renewed May 7, 1952. O. G. Apr. 15. Class 27.

Kiddie Klothes Ko., Baltimore, Md. Infants' and children's outer-wear and apparel. 557,784, Apr. 15; Serial No. 611,097. Class 39.

King, George, & Company Limited, London, England. Prepared breakfast cereal. 557,457, Apr. 15; Serial No. 556,015, published Jan. 1, 1952. Class 46.

Kirby, Donald R., doing business as International Service Association, Champaign, Ill. Promoting sales in restaurants and cafes. 557,752, Apr. 15; Serial No. 564,574, published Jan. 22, 1952. Class 101.

Klemm Automotive Products Company, Chicago, Ill. Filter elements. 557,656, Apr. 15; Serial No. 609,931, published Jan. 22, 1952. Class 31.

Klipstein, A., & Co., Inc., to American Cyanamid Company, New York, N. Y. Bacterial culture. 293,608, renewed May 3, 1952. O. G. Apr. 15. Class 6.

Knapp-Monarch Company, St. Louis, Mo. Hair clippers and electric shavers. 557,466, Apr. 15; Serial No. 566,014, published Jan. 15, 1952. Class 23.

Knoll Associates, Inc., New York, N. Y. Curtain and upholstery fabrics. 557,746, Apr. 15; Serial No. 617,503, published Jan. 15, 1952. Class 42.

Koch, Samuel J., doing business as The Pyramid Instrument Company, New York, N. Y. Clamp type voltammeters. 557,529, Apr. 15; Serial No. 591,628, published Jan. 15, 1952. Class 26.

Krad-L Laboratory, Reading, Pa. Non-electric hair wavers and curlers. 557,676, Apr. 15; Serial No. 611,280, published Jan. 22, 1952. Class 40.

Laclede-Christy Company, Chicago, Ill. Tank blocks. 557,634, Apr. 15; Serial No. 608,361, published Dec. 11, 1951. Class 12.

Laclede-Christy Company, Chicago, Ill. Castable refractory. 557,635, Apr. 15; Serial No. 608,362, published Dec. 25, 1951. Class 12.

La Resista Corset Company, The, Bridgeport, Conn. Ladies' corsets, corselets, girdles, etc. 557,760, Apr. 15; Serial No. 550,531. Class 39.

Lead Alloy Products Co., Detroit, Mich. Preformed solder shapes. 557,521, Apr. 15; Serial No. 590,090, published Jan. 22, 1952. Class 14.

Ledeen, Hyman, doing business as Ledeen Manufacturing Co., Los Angeles, Calif. Electric hoists. 557,748, Apr. 15; Serial No. 618,237, published Jan. 15, 1952. Class 21.

Ledeen Manufacturing Co.: *See*—
Ledeen, Hyman.

Lee, H. D., Company, Incorporated, The, Kansas City, Mo. Men's pants, outer shirts, blouses, and flight caps. 557,692, Apr. 15; Serial No. 612,265, published Jan. 22, 1952. Class 39.

Legge, Walter G., Company, Inc., New York, N. Y. Slip-resistant floor polish. 557,633, Apr. 15; Serial No. 608,277, published Dec. 25, 1951. Class 4.

Leggett, Francis H., & Company, New York, N. Y. Soap powder, household cleanser, and dishwashing compound. 557,621, Apr. 15; Serial No. 607,821, published Dec. 18, 1951. Class 52.

Leits, E., Inc., New York, N. Y. Cameras and camera lenses. 557,751, Apr. 15; Serial No. 619,887, published Dec. 25, 1951. Class 26.

Lelong, Lucien, Inc., Chicago, Ill. Perfume containers. 557,509, Apr. 15; Serial No. 588,304, published Jan. 22, 1952. Class 2.

Lenwells, Inc., Chicago, Ill., to Gillette Safety Razor Company, Boston, Mass. Shampoo. 295,188, renewed June 21, 1952. O. G. Apr. 15. Class 52.

Lieberman, Joseph, & Sons, Inc., Philadelphia, Pa. Brushes. 557,629, Apr. 15; Serial No. 608,010, published Nov. 29, 1951. Class 29.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. 557,660, Apr. 15; Serial No. 610,282, published Nov. 20, 1951. Class 18.

Lindsay, Henry, Limited, Bradford, England. Bolts. 557,540, Apr. 15; Serial No. 594,508, published Jan. 22, 1952. Class 13.

Link-Belt Company, Chicago, Ill. Drive chains and conveyor chains. 557,725, Apr. 15; Serial No. 614,445, published Jan. 8, 1952. Class 23.

Link-Belt Company, Chicago, Ill. Drive chains and conveyor chains. 557,726, Apr. 15; Serial No. 614,446, published Jan. 8, 1952. Class 23.

Little, M. S., Manufacturing Company, The, Hartford, Conn. Plumbing traps. 557,740, Apr. 15; Serial No. 617,088, published Jan. 22, 1952. Class 13.

Lorimer Paint Works, Inc., Brooklyn, N. Y. Puttles. 557,563, Apr. 15; Serial No. 600,295, published Dec. 25, 1951. Class 12.

Mages Sport Stores, Inc., Chicago, Ill. Men's, women's and children's sport clothing and clothing for athletic contests. 557,489, Apr. 15; Serial No. 580,022, published Dec. 25, 1951. Class 39.

Magnesium Elektron Limited, Clifton Junction, England. Chemical compositions and mixtures. 557,637, Apr. 15; Serial No. 608,614, published Jan. 22, 1952. Class 6.

Majestic Household Utilities Corporation, Chicago, Ill., assignor to Grigsby-Grunow Company, to Garod Radio Corporation, New York, N. Y. Electric vacuum cleaners and parts thereof. 295,043, renewed June 14, 1952. O. G. Apr. 15. Class 21.

Major Clothing Co., Inc., Bridgeton, N. J. Men's sport coats, suits and topcoats. 557,590, Apr. 15; Serial No. 605,102, published Jan. 22, 1952. Class 39.

Mallinson, H. R., & Co., Inc., to National Mallinson Fabrics Corporation, New York, N. Y. Silk piece goods. 296,309, renewed Aug. 2, 1952. O. G. Apr. 15. Class 42.

Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts. 557,680, Apr. 15; Serial No. 611,482, published Dec. 25, 1951. Class 39.

Manhattan Shirt Company, The, New York, N. Y. Men's dress and negligee shirts. 557,715, Apr. 15; Serial No. 613,673, published Jan. 22, 1952. Class 39.

Marathon Corporation, Rothschild, Wis. Paper napkins. 557,705, Apr. 15; Serial No. 613,013, published Jan. 15, 1952. Class 37.

Marco Company, Inc., Wilmington, Del. Pipe couplings. 557,638, Apr. 15; Serial No. 608,615, published Jan. 29, 1952. Class 13.

Marine Products Company, Detroit, Mich. Sump pumps. 444,679, Apr. 15; Serial No. 518,158, published Jan. 15, 1952. Class 23.

Marks Products Co. Inc., Brooklyn, N. Y., to Cable Electric Products, Inc., Providence, R. I. Electrical attachment plugs. 287,158, renewed Sept. 15, 1951. O. G. Apr. 15. Class 21.

Marnat Packing Company, Bennettsville, S. C. Food for dogs, cats, etc. 557,565, Apr. 15; Serial No. 600,440, published Jan. 22, 1952. Class 46.

Marshall's, Omaha, Nebr. Sandwiches. 557,532, Apr. 15; Serial No. 592,823, published Jan. 15, 1952. Class 46.

Martel, Calixa C., doing business as Calix-A Caps Company, Lewiston, Maine. Medicinal preparation. 557,516, Apr. 15; Serial No. 589,584, published Nov. 20, 1951. Class 18.

May Department Stores Company, The: *See*—
Kaufmann Department Stores, Inc.

McCormick & Company, Incorporated, Baltimore, Md. Black pepper; crushed, red, Italian style pepper, red pepper, etc. 557,672, Apr. 15; Serial No. 611,032, published Jan. 22, 1952. Class 46.

McDonald, J. M., Co.: *See*—
Wesendonck, John.

McMath-Axlrod Corporation, Dallas, Tex. Porcelain coated metal sheets and plates. 557,564, Apr. 15; Serial No. 600,297, published Dec. 25, 1951. Class 12.

Meinig, E. Richard, Co., The, Reading, Pa. Double faced tricot knitted cotton suede glove fabrics. 557,503, Apr. 15; Serial No. 586,008, published Jan. 22, 1952. Class 42.

Meri Marr Blouse Company, Brodheadsville, Pa. Women's sportswear. 557,575, Apr. 15; Serial No. 601,992, published Jan. 22, 1952. Class 39.

Metropolitan Photo Co.: *See*—
Mosberg, Paul J.

Meyerowich, Charles A., Stapleton, N. Y. Nonalcoholic, noncereal, maltless beverages. 357,895, June 21, 1938. Republished Apr. 15. Class 45.

Meyers, Maxwell, Inc., San Antonio, Tex. Piano accordions. 557,738, Apr. 15; Serial No. 616,770, published Jan. 22, 1952. Class 36.

Midwest Fibre Company, Sheboygan, Wis. Living room furniture. 373,722, Dec. 19, 1939. Republished Apr. 15. Class 32.

Midwest Fibre Company, doing business as Midwest Furniture Company, Sheboygan, Wis. Rocking chairs. 396,998, Aug. 11, 1942. Republished Apr. 15. Class 32.

Midwest Furniture Company: *See*—
Midwest Fibre Company.

Mill Agents and Distributors, Inc., Oakland, Calif. Paper. 557,458, Apr. 15; Serial No. 558,051, published Jan. 22, 1952. Class 37.

Miller Hatchery, Waverly, Iowa. Hatching eggs and baby chicks. 557,580, Apr. 15; Serial No. 603,122, published Jan. 15, 1952. Class 1.

Minnesota Retail Hardware Association, Minneapolis, Minn. Hooks. 557,743, Apr. 15; Serial No. 617,202, published Jan. 22, 1952. Class 13.

Mission Valley Canning Co., Inc.: *See*—
Greco Canning Company, Inc.

Models Publishing Company, Inc., New York, N. Y. Section in a magazine. 557,557, Apr. 15; Serial No. 600,501, published Jan. 1, 1952. Class 38.

Montenier, Jules, Inc., Chicago, Ill. Body deodorants. 557,775, Apr. 15; Serial No. 602,735. Class 51.

Mor'arty Manufacturing Co., Kenosha, Wis. Curtain rods. 557,742, Apr. 15; Serial No. 617,156, published Jan. 22, 1952. Class 13.

Morton, John T., to Morton Manufacturing Corporation, Lynchburg, Va. Medicinal preparation. 86,819, re-renewed June 4, 1952. O. G. Apr. 15. Class 18.

Morton Manufacturing Corporation: *See*—
Morton, John T.

Morton Salt Company: *See*—
Hutchinson-Kansas Salt Company, The.

Mosberg, Paul J., doing business under the name Metropolitan Photo Co., Seattle, Wash. Photographic album covers, binding clips, and acetate shields. 557,713, Apr. 15; Serial No. 613,601, published Jan. 15, 1952. Class 37.

Mufti Company, Cincinnati, Ohio, to Plough, Inc., Memphis, Tenn. Specially treated paper towel. 294,467, renewed May 31, 1952. O. G. Apr. 15. Class 4.

Myers, E., Lye Co., to E. Myers Lye Corporation, St. Louis, Mo. Lye. 86,148, re-renewed Apr. 16, 1952. O. G. Apr. 15. Class 6.

Myers, E., Lye Corporation: *See*—
Myers, E., Lye Co.

Nashua Gummed and Coated Paper Company, Nashua, N. H. Cover paper. 557,654, Apr. 15; Serial No. 609,877, published Jan. 22, 1952. Class 37.

National Cranberry Association, Hanson, Mass. Canned frozen cranberry juice. 557,581, Apr. 15; Serial No. 603,340, published Jan. 8, 1952. Class 46.

National Mallinson Fabrics Corporation: *See*—
Mallinson, H. R., & Co., Inc.

National Silver Company, New York, N. Y. Sterling silver and silverplated flatware. 557,772, Apr. 15; Serial No. 599,525. Class 28.

National Starch Company, to Corn Products Refining Company, New York, N. Y. Edible starch. 85,159, re-renewed Jan. 30, 1952. O. G. Apr. 15. Class 46.

National Syrup Products Company, Chicago, Ill. Icings for cake, doughnuts, and the like. 557,764, Apr. 15; Serial No. 561,330. Class 46.

Navlen, Charles A., New York, N. Y. Gas and electric household refrigerators and electric household freezers. 557,591, Apr. 15; Serial No. 605,671, published Jan. 8, 1952. Class 31.

Neiman-Marcus, Dallas, Tex. Hairbrushes. 557,617, Apr. 15; Serial No. 607,391, published Oct. 30, 1951. Class 29.

Nelson, Hugh, Columbia Carpet Mills, Inc., Philadelphia, Pa. Textile rugs and carpets. 557,783, Apr. 15; Serial No. 609,241. Class 42.

Nestle Company, Inc., The, New York, N. Y., by change of name from Nestle's Milk Products, Inc. Preparation to relieve gastro-intestinal disorders. 557,453, Apr. 15; Serial No. 551,038, published Dec. 25, 1951. Class 18.

Nestle's Milk Products, Inc.: *See*—
Nestle Company, Inc., The.

Newall Manufacturing Company, The, Chicago, Ill. Main springs for watches. 294,972, renewed June 14, 1952. O. G. Apr. 15. Class 27.

Newaygo Engineering Co., Newaygo, Mich. Foundry equipment. 557,701, Apr. 15; Serial No. 612,665, published Dec. 18, 1951. Class 23.

New Era Manufacturing Co.: *See*—
Regina Company, The.

New York Belting & Packing Co. Ltd., New York, N. Y., and Passaic, N. J., to United States Rubber Company, New York, N. Y. Machinery packing. 85,828, re-renewed Mar. 19, 1952. O. G. Apr. 15. Class 35.

Northern Paper Mills, Green Bay, Wis. Paper products. 557,450, Apr. 15; Serial No. 548,671, published Jan. 15, 1952. Class 37.

Northern Paper Mills, Green Bay, Wis. Paper products. 557,451, Apr. 15; Serial No. 548,672, published Jan. 22, 1952. Class 37.

Nova Manufacturing Co., Inc., New York, N. Y. Rigid-type table pads. 557,782, Apr. 15; Serial No. 608,563. Class 50.

Oakite Products, Inc., New York, N. Y. Cleaning preparations. 557,452, Apr. 15; Serial No. 548,675, published Oct. 4, 1949. Class 4.

Oilgear Company, The, Milwaukee, Wis. Valves. 557,611–12, Apr. 15; Serial Nos. 607,186–7, published Jan. 29, 1952. Class 13.

Ozark Packing Company, Inc., Ozark, Ark. Canned vegetables. 557,771, Apr. 15; Serial No. 599,110. Class 46.

Pacific Mills, Boston, Mass., and New York, N. Y. Woolen fabrics in the piece. 557,747, Apr. 15; Serial No. 618,212, published Jan. 29, 1952. Class 42.

Package Containers, Inc., Portland, Oreg. Paper shopping bags. 557,456, Apr. 15; Serial No. 554,509, published Jan. 22, 1952. Class 2.

Packard Dresses, Inc., New York, N. Y. Ladies' dresses and dress ensembles. 557,584–5, Apr. 15; Serial Nos. 604,216–17, published Jan. 22, 1952. Class 39.

Page Seed Company, The, Greene, N. Y. Garden, grass, and flower seeds. 557,535, Apr. 15; Serial No. 593,284, published Jan. 22, 1952. Class 1.

Panther Rubber Manufacturing Company, Stoughton, to American Biltrite Rubber Co., Inc., Chelsea, Mass. Rubber heels. 288,688, renewed Nov. 3, 1951. O. G. Apr. 15. Class 39.

Paragon Electric Company, Two Rivers, Wis. Synchronous electric motor operated time control switch. 557,541, Apr. 15; Serial No. 594,858, published Jan. 22, 1952. Class 26.

Parker-Hughes Corporation, Philadelphia, Pa. Complete cornice for retaining transversely movable curtains. 557,769, Apr. 15; Serial No. 597,225. Class 12.

Payne Coal Company, Inc., to Payne Coal Sales Company, Inc., Wilkes-Barre, Pa. Monthly publication. 294,396, renewed May 24, 1952. O. G. Apr. 15. Class 38.

Payne Coal Sales Company, Inc.: *See*—
Payne Coal Company, Inc.

Pearce, Charles R., Pittsburgh, Pa. Containers. 557,468, Apr. 15; Serial No. 568,114, published Jan. 15, 1952. Class 2.

Pelton Steel Casting Company, The: *See*—
Pelton Steel Company.

Pelton Steel Company, by The Pelton Steel Casting Company, Milwaukee, Wis. Steel castings. 127,109, Oct. 21, 1919. Republished Apr. 15. Class 14.

Peoples Drug Stores, Inc., Washington, D. C. Candy. 557,671, Apr. 15; Serial No. 610,921, published Jan. 22, 1952. Class 46.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc. Flavored antibiotic preparation. 557,561, Apr. 15; Serial No. 599,971, published June 12, 1951. Class 18.

Pharmaceuticals, Inc., Newark, N. J. Preparation to relieve upset stomachs. 557,513, Apr. 15; Serial No. 589,472, published Oct. 3, 1950. Class 18.

Picardi, Mariano, Newark, N. J. Digestant, antacid, and laxative compound. 289,090, renewed Nov. 17, 1951. O. G. Apr. 15. Class 18.

Pineoleum Company, The, New York, N. Y., to Baybank Drug Co., Inc., Richmond Hill, N. Y. Nebulizing or atomizing appliances. 295,231, renewed June 21, 1952. O. G. Apr. 15. Class 44.

Piper Brace Co., Kansas City, Mo. Hernia supporting trusses. 557,463, Apr. 15; Serial No. 562,083, published Nov. 13, 1951. Class 44.

Platt Brothers (Sales) Limited, Oldham, Lancashire, England. Textile spinning machinery. 557,547, Apr. 15; Serial No. 596,359, published Dec. 18, 1951. Class 23.

Plough, Inc.: *See*—
Mufti Company.

Polk Miller Products Corp., Richmond, Va. Household disinfectant. 557,551, Apr. 15; Serial No. 597,351, published Jan. 22, 1952. Class 6.

Pollack, Max, & Co., Inc., New York, N. Y. Sewing threads. 290,289, renewed Dec. 29, 1951. O. G. Apr. 15. Class 43.

Pollack, Max, & Co., Inc., New York, N. Y. Sewing threads. 290,680, renewed Jan. 12, 1952. O. G. Apr. 15. Class 43.

Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Bottles of glass. 557,779, Apr. 15; Serial No. 605,327. Class 33.

Priebe, William A., doing business as E-Z Mark Tools, Los Angeles, Calif. Carpenter's hand tool. 557,526, Apr. 15; Serial No. 590,759, published Jan. 22, 1952. Class 23.

Protex Products Company, Inc., New York, N. Y. Garment bags. 557,700, Apr. 15; Serial No. 612,625, published Jan. 22, 1952. Class 2.

Pyramid Instrument Company, The: *See*—
Koch, Samuel J.

Quaker Silver Co., Inc., North Attleboro, Mass. Sterling silver and silver-plated hollow ware. 557,583, Apr. 15; Serial No. 603,746, published Dec. 25, 1951. Class 28.

Rand, William, Inc., New York, N. Y. Costume jewelry. 557,559, Apr. 15; Serial No. 599,259, published June 19, 1951. Class 28.

Ransburg, Harper J., Co., Inc., Indianapolis, Ind. Receptacles. 557,546, Apr. 15; Serial No. 596,238, published Jan. 22, 1952. Class 2.

Rapids-Standard Company, Inc., The, Grand Rapids, Mich. Sectional, portable, gravity conveyors. 557,444, Apr. 15; Serial No. 508,920, published Dec. 11, 1951. Class 23.

Rauh, E., & Sons Fertilizer Co., Indianapolis, Ind. Tankage and fertilizer. 557,732, Apr. 15; Serial No. 615,410, published Jan. 22, 1952. Class 10.

Red Comet Incorporated, Littleton, Colo. Fire extinguisher grenades, and kits containing chemical preparations. 557,578, Apr. 15; Serial No. 602,856, published Jan. 22, 1952. Class 6.

Reed Roller Bit Company, Houston, Tex. Pneumatic drills. 557,493, Apr. 15; Serial No. 582,142, published Jan. 29, 1952. Class 23.

Regina Company, The, Rahway, to New Era Manufacturing Co., Paterson, N. J. Printing-presses. 87,006, re-renewed June 18, 1952. O. G. Apr. 15. Class 23.

Republic Flow Meters Company, Chicago, Ill. Chlorinated naphthalene compound. 557,527, Apr. 15; Serial No. 590,992, published Jan. 22, 1952. Class 6.

Resetar Produce Company, Watsonville, Calif. Fresh vegetables. 557,721, Apr. 15; Serial No. 614,097, published Jan. 22, 1952. Class 46.

Retlif Corporation, Hollywood, Calif. Removable filter paper. 557,533, Apr. 15; Serial No. 592,843, published Jan. 15, 1952. Class 37.

Revere Rubber Company, Chelsea, Mass., to United States Rubber Company, New York, N. Y. Rubber heels and soles of boots and shoes. 85,289, re-renewed Feb. 6, 1952. O. G. Apr. 15. Class 39.

Reynolds & Reynolds Company, The, Dayton, Ohio. Partially printed or blank accounting forms. 557,651, Apr. 15; Serial No. 609,760, published Jan. 22, 1952. Class 37.

Rhinelander Paper Company, Rhinelander, Wis. Supercalendered sulphite paper. 557,549, Apr. 15; Serial No. 596,803, published Jan. 22, 1952. Class 37.

Rhoads, J. E., & Sons, Philadelphia, Pa. Flat leather belting. 86,332, re-renewed Apr. 30, 1952. O. G. Apr. 15. Class 35.

Richards & Brennan Co., Randolph, to Charles A. Eaton Company, Brockton, Mass. Leather and fabric boots and shoes. 290,816, renewed Jan. 19, 1952. O. G. Apr. 15. Class 39.

Riverside Citrus Association, Riverside, Calif. Fresh citrus fruits. 557,761–2, Apr. 15; Serial Nos. 554,416–17. Class 46.

Riverside Metal Company, The: *See*—
Keystone Watch Case Company, The.

Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostats, thermostatic valves, thermostatic switches, etc. 557,486, Apr. 15; Serial No. 579,154, published Dec. 11, 1951. Class 26.

Rockwell Manufacturing Company, Pittsburgh, Pa., assignor to Emhart Manufacturing Company. Apparatus for feeding and/or removing workpieces. 557,553, Apr. 15; Serial No. 597,700, published Dec. 4, 1951. Class 23.

Rockwell Manufacturing Company, Pittsburgh, Pa. Wood working machines, work holding attachments for grinding machines, etc. 557,681, Apr. 15; Serial No. 611,540, published Dec. 25, 1951. Class 23.

Rockwell Manufacturing Company, Pittsburgh, Pa. Packing for rods. 557,682, Apr. 15; Serial No. 611,542, published Jan. 22, 1952. Class 35.

Rose, Sonya, Beverly Hills, Calif. Facial creams, lip and cheek rouges, face powders, etc. 557,536, Apr. 15; Serial No. 593,444, published Dec. 11, 1951. Class 51.

Rosenthal, David B., doing business as S. & R. Surplus Sales, Terre Haute, Ind. Men's wearing apparel. 557,535, Apr. 15; Serial No. 598,680, published Dec. 25, 1951. Class 39.

Ruberoid Co., The, New York, N. Y., and Bound Brook, N. J. Flexible prepared roofing. 295,276, renewed June 28, 1952. O. G. Apr. 15. Class 12.

Russell, J. T., & Son Produce Company, Tulsa, Okla. Dressed poultry and fresh eggs. 557,706, Apr. 15; Serial No. 613,025, published Jan. 22, 1952. Class 46.

S. & R. Surplus Sales: *See*—
Rosenthal, David B.

Ste. Pierre Smirnoff Fls, Inc., Hartford, Conn. Borscht, caviar. 557,768, Apr. 15; Serial No. 591,810. Class 46.

Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y., by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn. Non-alcoholic, maltless fruit juices. 309,865, Feb. 6, 1934. Republished Apr. 15. Class 45.

Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y., by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn. Vodka. 327,645, Sept. 3, 1935. Republished Apr. 15. Class 49.

Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y., by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn. Vodka. 328,594, Oct. 1, 1935. Republished Apr. 15. Class 49.

Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y., by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn. Vodka. 330,899, Dec. 17, 1935. Republished Apr. 15. Class 49.

Ste. Pierre Smirnoff Fls., Incorporated: *See*—
Ste Pierre Smirnoff Fls, Incorporated.

Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn. Distilled alcoholic liquor. 394,058, Mar. 17, 1942. Republished Apr. 15. Class 49.

San Antonio Drug Company, San Antonio, Tex. Various drugs, chemicals, and pharmaceutical preparations. 557,459, Apr. 15; Serial No. 558,597, published Dec. 25, 1951. Class 51.

Sani-Bin Company: *See*—
Sultz, William.

Sanitary Refrigerator Company, Fond du Lac, Wis. Refrigerated cabinets and multiple combination units thereof, ice refrigerators, etc. 557,650, Apr. 15; Serial No. 609,700, published Jan. 15, 1952. Class 31.

Sapphire Corporation: *See*—
Sapphire Hosiery Corporation.

Sapphire Hosiery Corporation, New York, N. Y., now by change of name Sapphire Corporation. Women's hosiery. 557,668, Apr. 15; Serial No. 610,637, published Dec. 25, 1951. Class 39.

Savage Bros. Co., Chicago, Ill. Tilting mixer, revolving coating pans, two-way candy cutter, etc. 557,647, Apr. 15; Serial No. 609,495, published Jan. 15, 1952. Class 23.

Scarves By Vera, Inc., New York, N. Y. Women's scarves. 557,684, Apr. 15; Serial No. 611,621, published Jan. 22, 1952. Class 39.

Schenley Laboratories, Inc., New York, N. Y. Sedatives. 557,525, Apr. 15; Serial No. 590,708, published Oct. 17, 1950. Class 18.

Schenley Laboratories, Inc., New York, N. Y. Medicinal preparation. 557,598, Apr. 15; Serial No. 606,088, published Nov. 27, 1951. Class 18.

Schering Corporation, Bloomfield, N. J. Combination of adrenal hormones. 557,665, Apr. 15; Serial No. 610,467, published Nov. 27, 1951. Class 18.

Schuylkill Valley Grocery Co., Inc., Bridgeport, Pa. Canned foods: butter, and vinegar. 557,480, Apr. 15; Serial No. 576,558, published Jan. 22, 1952. Class 46.

Scott Paper Company, Chester, Pa. Tissue, creped, and absorbent papers. 292,857, renewed Mar. 29, 1952. O. G. Apr. 15. Class 37.

Sealtite Insulation Manufacturing Corporation, Waukesha, Wis. Insulation product. 557,774, Apr. 15; Serial No. 600,195. Class 12.

Sears, Roebuck and Co., Chicago, Ill. Herbicides, fungicides. 557,722, Apr. 15; Serial No. 614,099, published Jan. 8, 1952. Class 6.

Sears, Roebuck and Co., Chicago, Ill. Interior decorating services. 557,753, Apr. 15; Serial No. 573,208, published Jan. 22, 1952. Class 103.

Seelman, George, & Sons Co., Milwaukee, Wis. Memo book covers, check book covers, and other book covers, etc. 557,630, Apr. 15; Serial No. 608,021, published Jan. 15, 1952. Class 37.

Seventeen: *See*—
Colgate-Palmolive-Peet Company.

Shantz Associates Incorporated, Rochester, N. Y. Buttons. 557,696, Apr. 15; Serial No. 612,377, published Jan. 22, 1952. Class 40.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Diuretic. 557,645, Apr. 15; Serial No. 609,205, published Nov. 20, 1951. Class 18.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Local anesthetic. 557,646, Apr. 15; Serial No. 609,210, published Nov. 20, 1951. Class 18.

Sharples Corporation, The: *See*—
Sharples Specialty Company, The.

Sharples Specialty Company, The, to The Sharples Corporation, Philadelphia, Pa. Centrifugal machines and parts thereof. 287,711, renewed Oct. 6, 1951. O. G. Apr. 15. Class 23.

Shell Chemical Corporation, New York, N. Y. Insecticide. 557,716, Apr. 15; Serial No. 613,884, published Jan. 22, 1952. Class 6.

Shenandoah Candy Company, Inc., Winchester, Va. Candies. 557,473, Apr. 15; Serial No. 573,007, published Jan. 22, 1952. Class 46.

Shrage, Max, Company, Inc., New York, N. Y. Outer shirts and trousers, poloshirts, and pajamas. 557,658, Apr. 15; Serial No. 610,031, published Jan. 22, 1952. Class 39.

Silver Brothers, Atlanta, Ga. Jewelry. 557,562, Apr. 15; Serial No. 600,196, published July 31, 1951. Class 28.

Silverstein & Pinsof, Inc., Chicago, Ill. Zinc base slushing alloys. 377,526, May 7, 1940. Republished Apr. 15. Class 14.

Smith, Kline & French Laboratories, Philadelphia, Pa. Analgesic. 557,669, Apr. 15; Serial No. 610,640, published Nov. 27, 1951. Class 18.

Smith, Kline & French Laboratories, Philadelphia, Pa. Anesthetic. 557,670, Apr. 15; Serial No. 610,641, published Nov. 27, 1951. Class 18.

Snyder & Black, New York, N. Y. Non-electrical advertising signs. 557,537, Apr. 15; Serial No. 593,570, published Nov. 13, 1951. Class 50.

Societe Anonyme, Bienaime: *See*—
Bienaime, Inc.

Societe Lancôme, S. A., Paris, France. Eau de cologne, toilet water, lotions, etc. 557,765, Apr. 15; Serial No. 577,010. Class 51.

Solar Aircraft Company, San Diego, Calif. Metallic bellows, metallic bellows expansion joints, expansion joint anchor bases, etc. 557,587, Apr. 15; Serial No. 604,811, published Jan. 22, 1952. Class 13.

Sommers, Edward S., doing business under the style name of Demi-Tint Industries, Chicago, Ill. Television receivers. 557,780, Apr. 15; Serial No. 607,049. Class 21.

Sonoco Products Company, Hartsville, S. C. Paper carriers. 557,484, Apr. 15; Serial No. 577,232, published Jan. 22, 1952. Class 2.

South Bend Lathe Works, South Bend, Ind. Antenna support towers. 557,577, Apr. 15; Serial No. 602,426, published Dec. 25, 1951. Class 12.

Southern California Muffler Company: *See*—
Belond, Jesse S.

Special Milk Products, Inc., West Los Angeles, Calif., now by change of name Jackson-Mitchell Pharmaceuticals, Inc. Vitamin preparation. 557,488, Apr. 15; Serial No. 579,841, published Nov. 7, 1950. Class 18.

Spicknall, Incorporated, Hannibal, Mo. Work-bench or table. 557,094–5, Apr. 15; Serial Nos. 612,360–1, published Jan. 15, 1952. Class 23.

Spray Incorporated, East Orange, N. J. Aerosol type liquid insecticide. 557,508, Apr. 15; Serial No. 587,762, published Jan. 22, 1952. Class 6.

Squibb, E. R., & Sons, New York, N. Y. Cardiac and anesthetic drugs. 557,523, Apr. 15; Serial No. 590,239, published Nov. 20, 1951. Class 18.

Squibb, E. R., & Sons, New York, N. Y. Antihemorrhagic preparations. 557,663, Apr. 15; Serial No. 610,386, published Nov. 20, 1951. Class 18.

Srader Sportswear, Dallas, Tex. Children's, misses', and ladies' shirts, shorts, and slacks. 557,773, Apr. 15; Serial No. 599,987. Class 39.

Standard Manifold Company, Chicago, Ill. Duplicating units. 557,497, Apr. 15; Serial No. 584,841, published Oct. 30, 1951. Class 11.

Sten-C-Labl Incorporated, St. Paul, Minn. Duplicating hand stamps and stencils. 444,680, Apr. 15; Serial No. 518,177, published Jan. 15, 1952. Class 23.

Stern, I., & Co., Inc., Mount Vernon, N. Y. Jewelers' gold, jewelers' solders, rolled gold plate, etc. 557,576, Apr. 15; Serial No. 602,294, published Jan. 22, 1952. Class 14.

Stocker Manufacturing Company, Netcong, N. J. Sealing tapes. 557,710, Apr. 15; Serial No. 613,533, published Jan. 22, 1952. Class 5.

Stocker Manufacturing Company, Netcong, N. J. Wrapping paper. 557,711, Apr. 15; Serial No. 613,534, published Jan. 15, 1952. Class 37.

Stocker Manufacturing Company, Netcong, N. J. Wrapping paper. 557,712, Apr. 15; Serial No. 613,537, published Jan. 15, 1952. Class 37.

Stover Water Softener Company, St. Charles, Ill. Domestic and industrial tank type water softeners and filters, tank type iron removal filters, etc. 557,733, Apr. 15; Serial No. 615,803, published Jan. 22, 1952. Class 31.

Stroock, S., & Co. Inc., New York, N. Y. Camel hair and wool cloth in the piece. 293,726, renewed May 3, 1952. O. G. Apr. 15. Class 42.

Stuart Rotchford Travel Service: *See*—
Happiness Tours.

Sultz, William, doing business as Sani-Bin Company, Buffalo, N. Y. Concrete outdoor housings for garbage and trash receptacles. 557,449, Apr. 15; Serial No. 542,369, published May 15, 1951. Class 2.

Sun Rubber Company, The, Barberton, Ohio. Plate scrapers and typewriter twirler rings. 557,707, Apr. 15; Serial No. 613,094, published Dec. 25, 1951. Class 23.

Swift, Elizabeth, Little Silver, N. J. Band designed to fit the contour of the head and hold securely a scarf or hood. 557,688, Apr. 15; Serial No. 612,044, published Jan. 22, 1952. Class 40.

Sylvan Sweets Co., Easton, Pa. Candy cigarettes. 557,550, Apr. 15; Serial No. 596,959, published Jan. 22, 1952. Class 46.

Teen-Age Beachwear Corp., Brooklyn, N. Y. Beachwear. 557,655, Apr. 15; Serial No. 609,891, published Dec. 25, 1951. Class 39.

Templeton, James, & Company Limited, Glasgow, Scotland. Valve-controlled, nozzle-type, applicator. 557,469, Apr. 15; Serial No. 568,874, published Dec. 11, 1951. Class 23.

Tension Envelope Corporation, Kansas City, Mo. Correspondence or mailing envelopes. 557,599, Apr. 15; Serial No. 606,184, published Jan. 22, 1952. Class 37.

Thomas Grain Fumigant Co., Inc., Kansas City, Mo. Economic poisons. 557,727, Apr. 15; Serial No. 614,470, published Jan. 22, 1952. Class 6.

Thomsen-Ellis-Hutton Company, Baltimore, Md. Printing services. 557,755, Apr. 15; Serial No. 596,816, published Jan. 22, 1952. Class 101.

Titus Blatter & Company, New York, N. Y. Drapery and upholstery fabrics. 557,606, Apr. 15; Serial No. 606,596, published Jan. 22, 1952. Class 42.

Trabon Engineering Corporation, Cleveland, Ohio. Lubricating systems. 557,519, Apr. 15; Serial No. 589,927, published Dec. 11, 1951. Class 23.

Underwood Corporation, New York, N. Y. Carbon paper and ink ribbons. 557,543, Apr. 15; Serial No. 595,343, published Oct. 9, 1951. Class 11.

Union Trading Company Ltd., Basel, Switzerland. Knives, spoons, forks, etc. 557,504, Apr. 15; Serial No. 586,372, published Jan. 8, 1952. Class 23.

United Aircraft Products, Inc., Dayton, Ohio. Metal pans. 557,476, Apr. 15; Serial No. 574,170, published Jan. 29, 1952. Class 13.

United Packers, Inc., Chicago, Ill. Prepared meats. 557,552, Apr. 15; Serial No. 597,421, published Jan. 22, 1952. Class 46.

United States Graphite Company, The, Division of The Wickes Corporation, Saginaw, Mich. Prepared graphite. 557,560, Apr. 15; Serial No. 599,912, published Jan. 15, 1952. Class 1.

United States Gypsum Company, Chicago, Ill. Calcium sulphate. 557,609, Apr. 15; Serial No. 607,056, published Jan. 22, 1952. Class 6.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. 557,788, Apr. 15; Serial No. 617,895. Class 22.

United States Rubber Company: *See*—
Beacon Falls Rubber Shoe Company, The.
New York Belting & Packing Co. Ltd.
Revere Rubber Company.

United States Rubber Company, New York, N. Y. Rubber flooring. 291,241, renewed Feb. 2, 1952. O. G. Apr. 15. Class 12.

United States Rubber Company, New York, N. Y. Rubber covered rollers. 292,957, renewed Mar. 29, 1952. O. G. Apr. 15. Class 23.

United States Safety Service Co., Kansas City, Mo. Face shields and goggles. 557,604, Apr. 15; Serial No. 606,501, published Jan. 15, 1952. Class 26.

U. S. Slicing Machine Company, Inc., La Porte, Ind. Weighing and computing scales. 557,510, Apr. 15; Serial No. 588,339, published Jan. 29, 1952. Class 26.

United States Steel Company: *See*—
American Steel and Wire Company of New Jersey, The.

Universal-Cyclops Steel Corporation, Bridgeville, Pa. Composite metal products. 557,544, Apr. 15; Serial No. 595,482, published Jan. 22, 1952. Class 14.

Universal Fountain Pen & Pencil Co., assignor to Universal Fountain Pen & Pencil Co., Inc., New York, N. Y. Fountain pens. 557,464, Apr. 15; Serial No. 563,378, published Jan. 15, 1952. Class 37.

Universal Fountain Pen & Pencil Co., Inc., assignee: *See*—
Universal Fountain Pen & Pencil Co.

Universal Winding Company, Cranston, R. I. Textile machinery. 557,689, Apr. 15; Serial No. 612,045, published Dec. 4, 1951. Class 23.

Vance & Co., not inc., Chicago, Ill. Drapery pleaters. 557,685, Apr. 15; Serial No. 611,984, published Jan. 22, 1952. Class 40.

Vanity Fair Mills, Inc.: *See*—
Vanity Fair Silk Mills.

Vanity Fair Silk Mills, to Vanity Fair Mills, Inc., Reading, Pa. Bandeaux, bloomers, panties, etc. 293,042, renewed Apr. 5, 1952. O. G. Apr. 15. Class 39.

Van Raalte Company, Inc., New York, N. Y. Hosiery. 295,114, renewed June 21, 1952. O. G. Apr. 15. Class 39.

Van Raalte Company, Inc., New York, N. Y. Hosiery. 295,138, renewed June 21, 1952. O. G. Apr. 15. Class 39.

Van Raalte Company, Inc., New York, N. Y. Hosiery. 295,140, renewed June 21, 1952. O. G. Apr. 15. Class 39.

Vanta Company, Inc., The, Pawtucket, R. I. Men's and boys' underwear. 557,767, Apr. 15; Serial No. 581,302. Class 39.

Vi-de-Lan: *See*—
Cramer, Melvin B.

Viking Products, Inc., New York, N. Y. Fresh, frozen, and canned fish. 557,693, Apr. 15; Serial No. 612,287, published Dec. 11, 1951. Class 46.

Vio Bin Corporation, The, Monticello, Ill. Concentrate of wheat germ oil. 557,556, Apr. 15; Serial No. 598,876, published Nov. 20, 1951. Class 18.

Visual Research Incorporated, Boston, Mass. Spectacles with optical prisms. 557,729, Apr. 15; Serial No. 614,590, published Dec. 11, 1951. Class 26.

Vitafreze Corporation, Sacramento, Calif. Water ice confections. 557,542, Apr. 15; Serial No. 595,178, published Jan. 29, 1952. Class 46.

Vita Zahnfabrik H. Rauter o. H. G.: *See*—
Dr. Hiltebrandt Zahnfabrik Aktiengesellschaft.

Waco Aircraft Company, The, Troy, Ohio. Electrically operating time interval measuring devices. 557,479, Apr. 15; Serial No. 575,383, published Jan. 15, 1952. Class 26.

Wade-Youmans Company, The, Alliance, Ohio. Silent butlers, cream and sugar sets and coaster sets. 557,482, Apr. 15; Serial No. 577,154, published Jan. 22, 1952. Class 13.

Walker, Crosweller & Company Limited, Cheltenham, England. Pipe line fittings. 557,605, Apr. 15; Serial No. 606,590, published Jan. 29, 1952. Class 13.

Wards Cove Packing Co., Inc., Seattle, Wash. Canned salmon. 557,495, Apr. 15; Serial No. 584,176, published Jan. 22, 1952. Class 46.

Watson-Park Company, Ballardvale, Mass. Dyestuffs. 557,723, Apr. 15; Serial No. 614,275, published Jan. 22, 1952. Class 6.

Webster, William A., Company, The, Memphis, Tenn. Sedative and antispasmodic preparation. 557,522, Apr. 15; Serial No. 590,204, published Nov. 20, 1951. Class 18.

Weco Products Company: *See*—
Western Bottle Manufacturing Company.

Werk, Julius N., Fabrics, Inc., New York, N. Y. Piece goods. 557,445, Apr. 15; Serial No. 516,746, published July 27, 1948. Class 42.

Wesendonck, John, New York, N. Y., by J. M. McDonald Co., Hastings, Nebr. Hosiery. 314,039, June 19, 1934. Republished Apr. 15. Class 39.

West Disinfecting Company, Long Island City, N. Y. Paper towels. 557,674, Apr. 15; Serial No. 611,163, published Jan. 22, 1952. Class 37.

Western Bottle Manufacturing Company, by Weco Products Company, Chicago, Ill. Toothbrushes. 154,178, Apr. 4, 1922. Republished Apr. 15. Class 29.

Wheeler Paper Corporation, Albany, N. Y. Paper towels. 291,914, renewed Feb. 23, 1952. O. G. Apr. 15. Class 37.

Whitehouse Products, Inc., Brooklyn, N. Y. Cameras, flash attachments, and camera cases. 557,558, Apr. 15; Serial No. 599,203, published Jan. 8, 1952. Class 26.

White Tower Management Corporation, Stamford, Conn. Coffee, hamburger sandwiches, and other sandwiches. 557,475, Apr. 15; Serial No. 573,807, published Jan. 22, 1952. Class 46.

Wieland, Gerald W., Indianapolis, Ind. Cardboard sandwich trays. 557,588, Apr. 15; Serial No. 604,877, published Jan. 22, 1952. Class 2.

Windt, Benn, New York, by Cocilans, Inc., Brooklyn, N. Y. Cough bon bons, cough confections, and cough syrups. 354,503, Feb. 15, 1938. Republished Apr. 15. Class 18.

Wolfe, Roy B., Danville, Ill. Slide rules. 557,492, Apr. 15; Serial No. 581,920, published Jan. 29, 1952. Class 26.

Woodcroftery Shops, Inc., The, Wayland, N. Y. Plain and decorated woodenware. 557,514, Apr. 15; Serial No. 589,493, published Jan. 29, 1952. Class 2.

Workman, Bernard, Inc., New York, N. Y. Hats. 557,491, Apr. 15; Serial No. 581,511, published Jan. 22, 1952. Class 39.
Wyeth Incorporated, Philadelphia, Pa. Pregnenolone acetate in dosage form. 557,662, Apr. 15; Serial No. 610,351, published Nov. 27, 1951. Class 18.
Yarnall-Waring Company, Philadelphia, Pa. Steam traps. 557,745, Apr. 15; Serial No. 617,468, published Jan. 29, 1952. Class 13.
Yore, Geo. J., & Co.: *See*—
Yore, George J.
Yore, George J., doing business as Geo. J. Yore & Co., Chicago, Ill. Heating pads for therapeutic purposes. 557,490, Apr. 15; Serial No. 580,913, published Jan. 22, 1952. Class 44.
Younghusband, James L., assignee: *See*—
Craft, Irene F.
Z-Metals, Incorporated: *See*—
Industrial Furnace Corporation.
Zion Industries, Inc., Zion, Ill. Cookies. 557,677, Apr. 15; Serial No. 611,325, published Jan. 8, 1952. Class 46.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Hatching eggs and baby chicks. Miller Hatchery. 557,580, Apr. 15; Serial No. 603,122, published Jan. 15, 1952.
Moss peat. Atkins & Durbrow, Inc. 294,771, renewed June 7, 1952. O. G. Apr. 15.
Prepared graphite. The United States Graphite Company, Division of The Wickes Corporation. 557,560, Apr. 15; Serial No. 599,912, published Jan. 15, 1952.
Seed, Alfalfa. Great Plains Seed Co. 557,447, Apr. 15; Serial No. 531,110, published Jan. 15, 1952.
Seeds, Garden, grass, and flower. The Page Seed Company. 557,535, Apr. 15; Serial No. 593,284, published Jan. 22, 1952.
Synthetic polyester fibers. E. I. du Pont de Nemours and Company. 557,698, Apr. 15; Serial No. 612,487, published Jan. 15, 1952.
Thin resinous fabric-like film. Doughboy Industries, Inc. 557,632, Apr. 15; Serial No. 608,059, published Jan. 15, 1952.

CLASS 2

Bags. Bemis Bro. Bag Company. 557,589, Apr. 15; Serial No. 604,898, published Jan. 22, 1952.
Bags, Garment. Protex Products Company, Inc. 557,700, Apr. 15; Serial No. 612,625, published Jan. 22, 1952.
Bags, Paper kitchen. American Stores Company. 557,520, Apr. 15; Serial No. 590,059, published Jan. 22, 1952.
Bags, Paper shopping. Package Containers, Inc. 557,456, Apr. 15; Serial No. 554,509, published Jan. 22, 1952.
Bags, Paper window. Bemis Bro. Bag Company. 557,615, Apr. 15; Serial No. 607,312, published Jan. 22, 1952.
Bags, Textile, paper lined textile bags and laminated textile bags. Central Bag & Burlap Company. 557,697, Apr. 15; Serial No. 612,441, published Jan. 22, 1952.
Boxes, Plastic sewing, candy boxes, parts boxes, etc. Central Plastic Corporation. 557,699, Apr. 15; Serial No. 612,587, published Jan. 22, 1952.
Buckets, bins, and hoppers. The C. S. Johnson Company. 557,735, Apr. 15; Serial No. 615,933, published Jan. 22, 1952.
Containers. C. R. Pearce. 557,468, Apr. 15; Serial No. 568,114, published Jan. 15, 1952.
Containers, Perfume. Lucien Lelong, Inc. 557,509, Apr. 15; Serial No. 588,304, published Jan. 22, 1952.
Housings for garbage and trash receptacles, Concrete outdoor. W. Suits. 557,449, Apr. 15; Serial No. 542,369, published May 15, 1951.
Paper carriers. Sonoco Products Company. 557,484, Apr. 15; Serial No. 577,232, published Jan. 22, 1952.
Plates. The Diamond Match Company. 557,730, Apr. 15; Serial No. 614,873, published Jan. 8, 1952.
Receptacle, Wooden and plastic. L. Kashins. 557,467, Apr. 15; Serial No. 566,152, published Jan. 29, 1952.
Receptacles. Harper J. Ransburg Co., Inc. 557,546, Apr. 15; Serial No. 596,238, published Jan. 22, 1952.
Refillable valve-controlled fluid soap dispensers. Flo-Bar, Limited. 557,494, Apr. 15; Serial No. 582,830, published Jan. 22, 1952.
Silos, corn cribs, and grain bins. Clayton & Lambert Manufacturing Company. 557,734, Apr. 15; Serial No. 615,881, published Jan. 22, 1952.
Trays, Cardboard sandwich. G. W. Wieland. 557,588, Apr. 15; Serial No. 604,877, published Jan. 22, 1952.
Woodenware, Plain and decorated. The Woodcroftery Shops, Inc. 557,514, Apr. 15; Serial No. 589,493, published Jan. 29, 1952.

CLASS 3

Hand bags, Women's. Hahn Department Stores, Inc. 291,151, renewed Feb. 2, 1952. O. G. Apr. 15.

CLASS 4

Abrasives. Behr-Manning Corporation. 557,477, Apr. 15; Serial No. 574,337, published Jan. 29, 1952.
Cleaning and polishing powder. The Bon Ami Company. 293,055, renewed Apr. 5, 1952. O. G. Apr. 15.
Cleaning preparations. Oakite Products, Inc. 557,452, Apr. 15; Serial No. 548,675, published Oct. 4, 1949.
Floor polish, Slip-resistant. Walter G. Legge Company, Inc. 557,633, Apr. 15; Serial No. 608,277, published Dec. 25, 1951.
Metal-Polish. The Cudahy Packing Company. 86,699, re-renewed May 28, 1952. O. G. Apr. 15.
Polishing, brushing, and buffing wheels. Hanson-Van Winkle-Munning Company. 557,766, Apr. 15; Serial No. 577,884.
Specially treated paper towel. Mufti Company. 294,467, renewed May 31, 1952. O. G. Apr. 15.
Wax, Self-polishing. Connecticut Chemical Research Corp. 557,567, Apr. 15; Serial No. 600,571, published Dec. 25, 1951.

CLASS 5

Cement. H. V. Hardman Co. Incorporated. 557,596, Apr. 15; Serial No. 606,015, published Jan. 22, 1952.
Cement, Waterproof, transparent, and flexible. Samuel Cabot, Incorporated. 557,610, Apr. 15; Serial No. 607,071, published Jan. 22, 1952.
Sealing tapes. Stocker Manufacturing Company. 557,710, Apr. 15; Serial No. 613,533, published Jan. 22, 1952.

CLASS 6

Bacterial culture. A. Klipstein & Co., Inc. 293,608, renewed May 3, 1952. O. G. Apr. 15.
Calcium sulphate. United States Gypsum Company. 557,609, Apr. 15; Serial No. 607,056, published Jan. 22, 1952.
Chemical compositions and mixtures. Magnesium Elektron Limited. 557,637, Apr. 15; Serial No. 608,614, published Jan. 22, 1952.
Chemical compound. The Johnson-March Corporation. 557,736, Apr. 15; Serial No. 616,103, published Jan. 22, 1952.
Chemical products. C'ba Limited. 557,623–4, Apr. 15; Serial Nos. 607,935–6, published Jan. 22, 1952.
Chemicals and preparations and compounds thereof. General Aniline & Film Corporation. 557,517, Apr. 15; Serial No. 589,718, published Jan. 22, 1952.
Chlorinated naphthalene compound. Republic Flow Meters Company. 557,527, Apr. 15; Serial No. 590,992, published Jan. 22, 1952.
Chlorine. Canadian Industries Limited. 557,592, Apr. 15; Serial No. 605,721, published Jan. 22, 1952.
Coal tar colors. Ciba Limited. 557,625, Apr. 15; Serial No. 607,940, published Jan. 22, 1952.
Compound used in the processing and treatment of rubber. The Barrett Company. 291,469, renewed Feb. 9, 1952. O. G. Apr. 15.
Disinfectant, Household. Polk Miller Products Corp. 557,551, Apr. 15; Serial No. 597,351, published Jan. 22, 1952.
Dyestuffs. Watson-Park Company. 557,723, Apr. 15; Serial No. 614,275, published Jan. 22, 1952.
Economic poisons. Thomas Grain Fumigant Co., Inc. 557,727, Apr. 15; Serial No. 614,470, published Jan. 22, 1952.
Economic poisons compositions. Fungitrol Chemicals Incorporated. 557,678, Apr. 15; Serial No. 611,418, published Dec. 25, 1951.
Fire extinguisher grenades, and kits containing chemical preparations. Red Comet Incorporated. 557,578, Apr. 15; Serial No. 602,856, published Jan. 22, 1952.
Herbicides, fungicides. Sears, Roebuck and Co. 557,722, Apr. 15; Serial No. 614,099, published Jan. 8, 1952.
Insecticide. Shell Chemical Corporation. 557,716, Apr. 15; Serial No. 613,884, published Jan. 22, 1952.
Insecticide, Aerosol type liquid. Spray Incorporated. 557,508, Apr. 15; Serial No. 587,762, published Jan. 22, 1952.
Insecticides. Commercial Solvents Corporation. 557,717, Apr. 15; Serial No. 613,974, published Jan. 22, 1952.
Insecticides. S. J. Coyne. 557,570, Apr. 15; Serial No. 600,946, published Jan. 22, 1952.
Liquid rot and mildew proofer. Barfair Laboratories, Inc. 557,714, Apr. 15; Serial No. 613,666, published Dec. 25, 1951.
Lye. E. Myers Lye Co. 86,148, re-renewed Apr. 16, 1952. O. G. Apr. 15.
Preparations for killing weeds and destroying vermin, insecticides, fungicides, etc. Geigy Company, Inc. 557,703, Apr. 15; Serial No. 612,787, published Jan. 22, 1952.
Rodenticide. Astor Exterminating Co. 557,602, Apr. 15; Serial No. 606,451, published Jan. 22, 1952.
Wetting and penetrating agent and dyeing assistant. E. I. du Pont de Nemours and Company. 557,724, Apr. 15; Serial No. 614,429, published Jan. 22, 1952.

CLASS 10

Tankage and fertilizer. E. Rauh & Sons Fertilizer Co. 557,732, Apr. 15; Serial No. 615,410, published Jan. 22, 1952.

CLASS 11

Carbon paper and ink ribbons. Underwood Corporation. 557,543, Apr. 15; Serial No. 595,343, published Oct. 9, 1951.
Duplicating units. Standard Manifold Company. 557,497, Apr. 15; Serial No. 584,841, published Oct. 30, 1951.
Hectograph carbon paper and duplicating units. Ditto, Incorporated. 557,471, Apr. 15; Serial No. 571,321, published Nov. 20, 1951.

CLASS 12

Antenna support towers. South Bend Lathe Works. 557,577, Apr. 15; Serial No. 602,426, published Dec. 25, 1951.
Castable refractory. Laclede-Christy Company. 557,635, Apr. 15; Serial No. 608,362, published Dec. 25, 1951.
Cement filler. The Borden Company. 557,686, Apr. 15; Serial No. 611,999, published Jan. 1, 1952.
Cement, Portland. The Associated Portland Cement Manufacturers, Limited. 290,752, renewed Jan. 12, 1952. O. G. Apr. 15.
Complete cornice for retaining transversely movable curtains. Parker-Hughes Corporation. 557,769, Apr. 15; Serial No. 597,225.
Flooring, Rubber. United States Rubber Company. 291,241, renewed Feb. 2, 1952. O. G. Apr. 15.
Insulation product. Sealtite Insulation Manufacturing Corporation. 557,774, Apr. 15; Serial No. 600,195.
Ornamental stone-appearing insulated siding. Bird & Son, inc. 557,673, Apr. 15; Serial No. 611,125, published Dec. 25, 1951.
Pitch for roofing, waterproofing, insulating, etc., Prepared natural and artificial. Barrett Manufacturing Company. 85,408, re-renewed Feb. 20, 1952. O. G. Apr. 15.
Porcelain coated metal sheets and plates. McMath-Axlrod Corporation. 557,564, Apr. 15; Serial No. 600,297, published Dec. 25, 1951.
Putties. Lorimer Paint Works, Inc. 557,563, Apr. 15; Serial No. 600,295, published Dec. 25, 1951.
Roofing, Flexible prepared. The Ruberoid Co. 295,276, renewed June 28, 1952. O. G. Apr. 15.
Tank blocks. Laclede-Christy Company. 557,634, Apr. 15; Serial No. 608,361, published Dec. 11, 1951.
Vent screens. Easterday Paint and Chemical Company. 557,787, Apr. 15; Serial No. 613,839.

CLASS 13

Bolts. Henry Lindsay Limited. 557,540, Apr. 15; Serial No. 594,508, published Jan. 22, 1952.
Curtain rods. Moriarty Manufacturing Co. 557,742, Apr. 15; Serial No. 617,156, published Jan. 22, 1952.
Door and drawer pulls. Adams Rite Manufacturing Company. 557,501, Apr. 15; Serial No. 585,777, published Jan. 29, 1952.
Hooks. Minnesota Retail Hardware Association. 557,743, Apr. 15; Serial No. 617,202, published Jan. 22, 1952.
Metal pans. United Aircraft Products, Inc. 557,476, Apr. 15; Serial No. 574,170, published Jan. 29, 1952.
Metallic bellows, metallic bellows expansion joints, expansion joint anchor bases, etc. Solar Aircraft Company. 557,587, Apr. 15; Serial No. 604,811, published Jan. 22, 1952.
Nails and brads, Wire. The American Steel and Wire Company of New Jersey. 557,739, Apr. 15; Serial No. 616,790, published Jan. 22, 1952.
Pipe couplings. Marco Company, Inc. 557,638, Apr. 15; Serial No. 608,615, published Jan. 29, 1952.
Pipe line fittings. Walker, Crosweller & Company Limited. 557,605, Apr. 15; Serial No. 606,590, published Jan. 29, 1952.
Plumbing traps. The M. S. Little Manufacturing Company. 557,740, Apr. 15; Serial No. 617,088, published Jan. 22, 1952.
Screen door hinges. The Consolidated Iron-Steel Mfg. Co. 557,499, Apr. 15; Serial No. 585,566, published Jan. 29, 1952.
Silent butlers, cream and sugar sets and coaster sets. The Wade-Youmans Company. 557,482, Apr. 15; Serial No. 577,154, published Jan. 22, 1952.
Slide fasteners, Plastic. Flexigrip, Inc. 557,731, Apr. 15; Serial No. 615,375, published Jan. 22, 1952.
Slide fasteners, union joints, and couplings, etc. Imperial Chemical Industries Limited. 557,661, Apr. 15; Serial No. 610,321, published Jan. 22, 1952.
Staples. The Bates Manufacturing Company. 557,744, Apr. 15; Serial No. 617,274, published Jan. 22, 1952.
Steam traps. Yarnall-Waring Company. 557,745, Apr. 15; Serial No. 617,468, published Jan. 29, 1952.
Toilet seats. American Plastic Products Co. 557,741, Apr. 15; Serial No. 617,139, published Jan. 22, 1952.
Valves. The Oilgear Company. 557,611–12, Apr. 15; Serial Nos. 607,186–7, published Jan. 29, 1952.
Valves, Metal, pod type vat outlets, etc. Cherry-Burrell Corporation. 444,678, Apr. 15; Serial No. 485,429, published Jan. 15, 1952.

CLASS 14

Alloy die steel, Annealed hot-worked. Heppenstall Company. 557,614, Apr. 15; Serial No. 607,289, published Jan. 22, 1952.
Brass. The American Brass Company. 557,613, Apr. 15; Serial No. 607,278, published Jan. 22, 1952.
Gold, Jewelers', jewelers' solders, rolled gold plate, etc. I. Stern & Co., Inc. 557,576, Apr. 15; Serial No. 602,294, published Jan. 22, 1952.
Magnetic alloys. The Indiana Steel Products Company. 557,619, Apr. 15; Serial No. 607,503, published Jan. 22, 1952.
Metal castings. Industrial Furnace Corporation. 291,135, renewed Jan. 26, 1952. O. G. Apr. 15.
Metal castings, Ferrous and non-ferrous. General Motors Corporation. 557,502, Apr. 15; Serial No. 585,996, published Jan. 22, 1952.
Metal products, Composite. Universal-Cyclops Steel Corporation. 557,544, Apr. 15; Serial No. 595,482, published Jan. 22, 1952.
Metal stampings. The Geometric Stamping Company. 557,548, Apr. 15; Serial No. 596,571, published Jan. 22, 1952.
Permanent magnet alloys. The Indiana Steel Products Company. 557,618, Apr. 15; Serial No. 607,502, published Jan. 22, 1952.
Solder shapes, Preformed. Lead Alloy Products Co. 557,521, Apr. 15; Serial No. 590,090, published Jan. 22, 1952.
Steel and alloy steel components, All types of. The Defiance Automatic Screw Company. 557,568, Apr. 15; Serial No. 600,822, published Jan. 22, 1952.
Steel castings. Pelton Steel Company. 127,109, Oct. 21, 1919. Republished Apr. 15.
Zinc base slushing alloys. Silverstein & Pinsof, Inc. 377,526, May 7, 1940. Republished Apr. 15.

CLASS 18

Analgesic. Smith, Kline & French Laboratories. 557,669, Apr. 15; Serial No. 610,640, published Nov. 27, 1951.
Anesthetic. Smith, Kline & French Laboratories. 557,670, Apr. 15; Serial No. 610,641, published Nov. 27, 1951.
Anesthetic, Local. Sharp & Dohme, Incorporated. 557,646, Apr. 15; Serial No. 609,210, published Nov. 20, 1951.
Antibiotic anesthetic capsules. Foley & Company. 557,659, Apr. 15; Serial No. 610,209, published Nov. 27, 1951.
Antibiotic preparation, Flavored. Chas. Pfizer & Co., Inc. 557,561, Apr. 15; Serial No. 599,971, published June 12, 1951.
Antihemorrhagic preparations. E. R. Squibb & Sons. 557,663, Apr. 15; Serial No. 610,386, published Nov. 20, 1951.
Body lotion for application to the skin to aid in the prevention of bed sores, etc. Gerselle Pharmacal Company. 557,518, Apr. 15; Serial No. 589,782, published Nov. 20, 1951.
Cardiac and anesthetic drugs. E. R. Squibb & Sons. 557,523, Apr. 15; Serial No. 590,239, published Nov. 20, 1951.
Combination of adrenal hormones. Schering Corporation. 557,665, Apr. 15; Serial No. 610,467, published Nov. 27, 1951.
Concentrate of wheat germ oil. The Vio Bin Corporation. 557,556, Apr. 15; Serial No. 598,876, published Nov. 20, 1951.
Container charged with a medicament. Abbott Laboratories. 557,474, Apr. 15; Serial No. 573,294, published Nov. 27, 1951.
Cough bon bons, cough confections, and cough syrups. B. Windt. 354,503, Feb. 15, 1938. Republished Apr. 15.
Digestant, antacid, and laxative compound. M. Picardi. 289,090, renewed Nov. 17, 1951. O. G. Apr. 15.
Diuretic. Sharp & Dohme, Incorporated. 557,645, Apr. 15; Serial No. 609,205, published Nov. 20, 1951.
Medicated hair and scalp treatment. M. B. Cramer. 557,507, Apr. 15; Serial No. 586,793, published Aug. 28, 1951.
Medicinal preparation. Eli Lilly and Company. 557,660, Apr. 15; Serial No. 610,282, published Nov. 20, 1951.
Medicinal preparation. C. C. Martel. 557,516, Apr. 15; Serial No. 589,584, published Nov. 20, 1951.
Medicinal preparation. J. T. Morton. 86,819, re-renewed June 4, 1952. O. G. Apr. 15.
Medicinal preparation. Schenley Laboratories, Inc. 557,598, Apr. 15; Serial No. 606,088, published Nov. 27, 1951.
Pregnenolone acetate in dosage form. Wyeth Incorporated. 557,662, Apr. 15; Serial No. 610,351, published Nov. 27, 1951.
Preparation for use as a sedative, analgesic and antipyretic. Burroughs Wellcome & Co. (U. S. A.) Inc. 557,511, Apr. 15; Serial No. 588,477, published Apr. 17, 1951.
Preparation to relieve gastro-intestinal disorders. The Nestle Company, Inc. 557,453, Apr. 15; Serial No. 551,038, published Dec. 25, 1951.

Preparation to relieve upset stomachs. Pharmaceuticals, Inc. 557,513, Apr. 15; Serial No. 589,472, published Oct. 3, 1950.
Preparation used in the treatment of obesity. Chicago Pharmacal Company. 557,648, Apr. 15; Serial No. 609,532, published Nov. 20, 1951.
Remedy for coughs, colds, etc. The W. H. Comstock Company Limited. 557,664, Apr. 15; Serial No. 610,414, published Nov. 27, 1951.
Sedative and antispasmodic preparation. The William A. Webster Company. 557,522, Apr. 15; Serial No. 590,204, published Nov. 20, 1951.
Sedatives. Schenley Laboratories, Inc. 557,525, Apr. 15; Serial No. 590,708, published Oct. 17, 1950.
Thyroid preparation. Armour and Company. 557,652, Apr. 15; Serial No. 609,840, published Nov. 20, 1951.
Tonic. General. Hoffmann-La Roche Inc. 295,234, renewed June 21, 1952. O. G. Apr. 15.
Vermifuge for removal of large roundworms and cecal worms in chickens and turkeys. Barker, Moore & Mein Company. 557,666, Apr. 15; Serial No. 610,609, published Nov. 27, 1951.
Vitamin preparation. Special Milk Products, Inc. 557,488, Apr. 15: Serial No. 579,841, published Nov. 7, 1950.
Vitamin supplement. Barker, Moore & Mein Company. 557,667, Apr. 15; Serial No. 610,610, published Nov. 27, 1951.
Vitamins and minerals. Ayerst, McKenna & Harrison Limited. 557,657, Apr. 15; Serial No. 609,997, published Nov. 20, 1951.

CLASS 21

Electric garbage disposal units. Given Manufacturing Company. 549,766, Oct. 23, 1951. Corrected. O. G. Apr. 15.
Electric hoists. H. Ledeen. 557,748, Apr. 15; Serial No. 618,237, published Jan. 15, 1952.
Electrical attachment plugs. Marks Products Co. Inc. 287,158, renewed Sept. 15, 1951. O. G. Apr. 15.
Electro-bleed machines. Barker Poultry Equipment Co. 557,749, Apr. 15; Serial No. 618,529, published Jan. 22, 1952.
Radio receiving sets, television receiving sets, automatic phonographs and combinations of any of them. Garod Radio Corporation. 557,750, Apr. 15; Serial No. 618,373, published Jan. 22, 1952.
Stoves, Electrical, electric vacuum cleaners, etc. Affiliated Retailers, Inc. 557,704, Apr. 15; Serial No. 612,885, published Jan. 22, 1952.
Television receivers. E. S. Sommers. 557,780, Apr. 15; Serial No. 607,049.
Vacuum cleaners and parts thereof, Electric. Majestic Household Utilities Corporation. 295,043, renewed June 14, 1952. O. G. Apr. 15.

CLASS 22

Fish bait, Artificial edible. Kautzky Manufacturing Company. 557,636, Apr. 15; Serial No. 608,401, published Jan. 22, 1952.
Playing cards. The United States Playing Card Company. 557,788, Apr. 15; Serial No. 617,895.

CLASS 23

Apparatus for feeding and/or removing workpieces. Rockwell Manufacturing Company. 557,553, Apr. 15; Serial No. 597,700, published Dec. 4, 1951.
Automobile engine parts. Bohn Aluminum & Brass Corporation. 557,573, Apr. 15; Serial No. 601,421, published Jan. 29, 1952.
Automotive exhaust systems and parts therefor. J. S. Belond. 557,640, Apr. 15; Serial No. 608,739, published Jan. 22, 1952.
Belt conveyors, Portable and stationary, belt and bucket loaders, etc. Barber-Greene Company. 557,566, Apr. 15; Serial No. 600,530, published Jan. 15, 1952.
Centrifugal machines and parts thereof. The Sharples Specialty Company. 287,711, renewed Oct. 6, 1951. O. G. Apr. 15.
Chains, Drive, and conveyor chains. Link-Belt Company. 557,725, Apr. 15; Serial No. 614,445, published Jan. 8, 1952.
Chains, Drive, and conveyor chains. Link-Belt Company. 557,726, Apr. 15; Serial No. 614,446, published Jan. 8, 1952.
Clippers, Hair, and electric shavers. Knapp-Monarch Company. 557,466, Apr. 15; Serial No. 566,014, published Jan. 15, 1952.
Drills, Pneumatic. Reed Roller Bit Company. 557,493, Apr. 15; Serial No. 582,142, published Jan. 29, 1952.
Duplicating hand stamps and stencils. Sten-C-Labl Incorporated. 444,680, Apr. 15; Serial No. 518,177, published Jan. 15, 1952.
Filler materials. Filter Materials, Inc. 557,478, Apr. 15; Serial No. 374,501, published Jan. 8, 1952.
Foundry equipment. Newaygo Engineering Co. 557,701, Apr. 15; Serial No. 612,665, published Dec. 18, 1951.
Gravity conveyors, Sectional, portable. The Rapids-Standard Company, Inc. 557,444, Apr. 15; Serial No. 508,920, published Dec. 11, 1951.
Internal combustion engines, pumps, pumping plants, etc. Fairbanks, Morse & Co. 300,399, Jan. 17, 1933. Republished Apr. 15.
Knives, spoons, forks, etc. Union Trading Company Ltd. 557,504, Apr. 15; Serial No. 586,372, published Jan. 8, 1952.
Lubricating systems. Trabon Engineering Corporation. 557,519, Apr. 15; Serial No. 589,927, published Dec. 11, 1951.
Machines for grinding up garbage. Given Manufacturing Company. 444,485, May 1, 1951. Corrected. O. G. Apr. 15.
Mixer, Tilting, revolving coating pans, two-way candy cutter, etc. Savage Bros Co. 557,647, Apr. 15; Serial No. 609,495, published Jan. 15, 1952.
Plate scrapers and typewriter twirler rings. The Sun Rubber Company. 557,707, Apr. 15; Serial No. 613,094, published Dec. 23, 1951.
Printing-presses. The Regina Company. 87,006, re-renewed June 18, 1952. O. G. Apr. 15.
Profile dressing and grinding machines. Airborne Accessories Corporation. 557,675, Apr. 15; Serial No. 611,254, published Jan. 15, 1952.
Pumps, Reciprocating. Food Machinery and Chemical Corporation. 557,505, Apr. 15; Serial No. 586,408, published Jan. 29, 1952.
Pumps, Sump. Marine Products Company. 444,679, Apr. 15; Serial No. 518,158, published Jan. 15, 1952.
Rubber covered rollers. United States Rubber Company. 292,957, renewed Mar. 29, 1952. O. G. Apr. 15.
Spraying and dusting machines, Agricultural and horticultural. Food Machinery and Chemical Corporation. 557,487, Apr. 15; Serial No. 579,679, published Jan. 15, 1952.
Textile machinery. Universal Winding Company. 557,699, Apr. 15; Serial No. 612,045, published Dec. 4, 1951.
Textile spinning machinery. Platt Brothers (Sales) Limited. 557,547, Apr. 15; Serial No. 596,359, published Dec. 18, 1951.
Tool, Carpenter's hand. W. A. Priebe. 557,526, Apr. 15; Serial No. 590,759, published Jan. 22, 1952.
Tools, etc., Hand, clamping, cutting, tightening, bending, driving, pulling, and work piece supporting. Kent-Moore Organization, Inc. 557,481, Apr. 15; Serial No. 577,124, published Jan. 15, 1952.
Tools, Power. Altheimer & Baer, Inc. 557,500, Apr. 15; Serial No. 585,735, published Dec. 18, 1951.
Tractors. Food Machinery and Chemical Corporation. 557,485, Apr. 15; Serial No. 577,378, published Nov. 20, 1951.
Valve-controlled, nozzle-type applicator. James Templeton & Company Limited. 557,469, Apr. 15; Serial No. 568,874, published Dec. 11, 1951.
Wood working machines, work holding attachments for grinding machines, etc. Rockwell Manufacturing Company. 557,681, Apr. 15; Serial No. 611,540, published Dec. 25, 1951.
Work-bench or table. Spicknall, Incorporated. 557,694–5, Apr. 15; Serial Nos. 612,360–1, published Jan. 15, 1952.

CLASS 26

Bifocal ophthalmic lenses, Flat top. Imperial Optical Company Ltd. 557,582, Apr. 15; Serial No. 603,344, published Jan. 22, 1952.
Bunsen burners. Hanau Engineering Company, Inc. 557,601, Apr. 15; Serial No. 606,379, published Jan. 22, 1952.
Cameras. Ercona Camera Corporation. 557,718, Apr. 15; Serial No. 613,979, published Jan. 15, 1952.
Cameras. Ercona Camera Corporation. 557,719, Apr. 15; Serial No. 613,981, published Jan. 15, 1952.
Cameras and camera lenses. E. Leitz, Inc. 557,751, Apr. 15; Serial No. 619,887, published Dec. 25, 1951.
Cameras, flash attachments, and camera cases. Whitehouse Products, Inc. 557,558, Apr. 15; Serial No. 599,203, published Jan. 8, 1952.
Electrically operating time interval measuring devices. The Waco Aircraft Company. 557,479, Apr. 15; Serial No. 575,383, published Jan. 15, 1952.
Face shields and goggles. United States Safety Service Co. 557,604, Apr. 15; Serial No. 606,501, published Jan. 15, 1952.
Gages. Heli-Coil Corporation. 557,679, Apr. 15; Serial No. 611,425, published Jan. 29, 1952.
Lens for installation in a door for use as a door peep, Wide-angle. Danca Products Corporation. 557,538, Apr. 15; Serial No. 593,585, published Dec. 11, 1951.
Light sensitive materials for use in photography. Gevaert Photo-Producten N. V. 557,593–4, Apr. 15; Serial Nos. 605,950–1, published Dec. 11, 1951.
Motion-picture cameras and projectors. Ercona Camera Corporation. 557,720, Apr. 15; Serial No. 613,982, published Jan. 15, 1952.
Rules, Slide. R. B. Wolfe. 557,492, Apr. 15; Serial No. 581,920, published Jan. 29, 1952.
Scales, Computing commodity. Globe Slicing Machine Co., Inc. 557,687, Apr. 15; Serial No. 612,013, published Jan. 22, 1952.
Scales, Weighing and computing. U. S. Slicing Machine Company, Inc. 557,510, Apr. 15; Serial No. 588,339, published Jan. 29, 1952.
Spectacles with optical prisms. Visual Research Incorporated. 557,729, Apr. 15; Serial No. 614,590, published Dec. 11, 1951.

Synchronous electric motor operated time control switch. Paragon Electric Company. 557,541, Apr. 15; Serial No. 594,858, published Jan. 22, 1952.
Testing devices. Judson Engineering Corporation. 557,728, Apr. 15; Serial No. 614,477, published Dec. 11, 1951.
Thermostats, thermostatic valves, thermostatic switches, etc. Robertshaw-Fulton Controls Company. 557,486, Apr. 15; Serial No. 579,154, published Dec. 11, 1951.
Volt-ammeters, Clamp type. S. J. Koch. 557,529, Apr. 15; Serial No. 591,628, published Jan. 15, 1952.

CLASS 27

Mainspring for watches. The Newall Manufacturing Company. 294,972, renewed June 14, 1952. O. G. Apr. 15.
Watches, watch-movements, watchcases, and parts thereof. The Keystone Watch Case Company. 86,412, re-renewed May 7, 1952. O. G. Apr. 15.

CLASS 28

Bracelets and watch bracelets. Jacoby-Bender, Inc. 557,631, Apr. 15; Serial No. 608,039, published Dec. 25, 1951.
Flatware, Silver. Fine Arts Sterling Silver Company. 557,454, Apr. 15; Serial No. 552,963, published Dec. 25, 1951.
Flatware, Sterling silver and silverplated. National Silver Company. 557,772, Apr. 15; Serial No. 599,525.
Hollow ware, Sterling silver and silver-plated. Quaker Silver Co., Inc. 557,583, Apr. 15; Serial No. 603,746, published Dec. 25, 1951.
Jewelry. The Curtman Co., Inc. 557,571, Apr. 15; Serial No. 601,098, published Nov. 13, 1951.
Jewelry. Silver Brothers. 557,562, Apr. 15; Serial No. 600,196, published July 31, 1951.
Jewelry, Costume. William Rand, Inc. 557,559, Apr. 15; Serial No. 599,259, published June 19, 1951.
Rings, Finger. Granat Bros. 557,531, Apr. 15; Serial No. 592,368, published Oct. 31, 1950.
Table flatware, hollow-ware and other articles of silverware and jewelry. H. Bayer. 557,455, Apr. 15; Serial No. 554,004, published Dec. 25, 1951.

CLASS 29

Brushes. Joseph Lieberman & Sons, Inc. 557,629, Apr. 15; Serial No. 608,010, published Nov. 27, 1951.
Hairbrushes. Neiman-Marcus. 557,617, Apr. 15; Serial No. 607,391, published Oct. 30, 1951.
Toothbrushes. Western Bottle Manufacturing Company. 154,178, Apr. 4, 1922. Republished Apr. 15.

CLASS 31

Coolers, Sectional cascade. General Ceramics and Steatite Corp. 557,737, Apr. 15; Serial No. 616,168, published Jan. 8, 1952.
Filter elements. Klemm Automotive Products Company. 557,656, Apr. 15; Serial No. 609,931, published Jan. 22, 1952.
Freezing machines, Automatic quick. Freezing Equipment Sales, Inc. 557,569, Apr. 15; Serial No. 600,827, published Jan. 1, 1952.
Refrigerated cabinets and multiple combination units thereof, ice refrigerators, etc. Sanitary Refrigerator Company. 557,650, Apr. 15; Serial No. 609,700, published Jan. 15, 1952.
Refrigerators. The Coolerator Company. 557,530, Apr. 15; Serial No. 591,837, published May 8, 1951.
Refrigerators, Gas and electric household, and electric household freezers. C. A. Navien. 557,591, Apr. 15; Serial No. 605,671, published Jan. 8, 1952.
Water softeners and filters, Domestic and industrial tank type, tank type iron removal filters, etc. Stover Water Softener Company. 557,733, Apr. 15; Serial No. 615,803, published Jan. 22, 1952.

CLASS 32

Chairs, Rocking. Midwest Fibre Company. 396,998, Aug. 11, 1942. Republished Apr. 15.
Furniture, Living room. Midwest Fibre Company. 373,722, Dec. 19, 1939. Republished Apr. 15.
Hammocks, Couch, gliders, lawn and porch swings, etc. Gold Medal Folding Furniture Co. 289,256, renewed Nov. 24, 1951. O. G. Apr. 15.

CLASS 33

Bottles of glass. Premo Pharmaceutical Laboratories, Inc. 557,779, Apr. 15; Serial No. 605,327.
Humidor made of glass. Ell's and Ellis. 444,681, Apr. 15; Serial No. 524,787, published Nov. 13, 1951.

CLASS 34

Heaters, Water, and gas fire boilers. Bastian-Morley Co., Inc. 557,763, Apr. 15; Serial No. 554,853.

CLASS 35

Belting, Flat leather. J. E. Rhoads & Sons. 86,332, re-renewed Apr. 30, 1952. O. G. Apr. 15.
Brake lining. Grizzly Manufacturing Company. 557,574, Apr. 15; Serial No. 601,900, published Dec. 25, 1951.
Machinery packing. New York Belting & Packing Co. Ltd. 85,828, re-renewed Mar. 19, 1952. O. G. Apr. 15.
Packing for rods. Rockwell Manufacturing Company. 557,682, Apr. 15; Serial No. 611,542, published Jan. 22, 1952.
Piston rings. Hastings Manufacturing Company. 290,522, renewed Jan. 5, 1952. O. G. Apr. 15.

CLASS 36

Mouth-harmonicas. Firm of M. Hohner. 38,458, re-renewed June 17, 1952. O. G. Apr. 15.
Phonograph records, Grooved. Decca Records, Inc. 557,643, Apr. 15; Serial No. 609,079, published Jan. 22, 1952.
Piano accordions. Maxwell, Meyers, Inc. 557,738, Apr. 15; Serial No. 616,770, published Jan. 22, 1952.

CLASS 37

Envelopes, Correspondence or mailing. Tension Envelope Corporation. 557,599, Apr. 15; Serial No. 606,184, published Jan. 2, 1952.
Memo book covers, check book covers, and other book covers, etc. George Sfeelmann & Sons Co. 557,630, Apr. 15; Serial No. 608,021, published Jan. 15, 1952.
Paper. Mill Agents and Distributors, Inc. 557,458, Apr. 15; Serial No. 558,051, published Jan. 22, 1952.
Paper, Cover. Nashua Gummed and Coated Paper Company. 557,654, Apr. 15; Serial No. 609,877, published Jan. 22, 1952.
Paper, Mineral coated. The Champion Paper and Fibre Company. 557,446, Apr. 15; Serial No. 527,439, published Jan. 22, 1952.
Paper napkins. The Diamond Match Company. 557,512, Apr. 15; Serial No. 588,789, published Jan. 15, 1952.
Paper napkins. Marathon Corporation. 557,705, Apr. 15; Serial No. 613,013, published Jan. 15, 1952.
Paper products. Northern Paper Mills. 557,450, Apr. 15; Serial No. 548,671, published Jan. 15, 1952.
Paper products. Northern Paper Mills. 557,451, Apr. 15; Serial No. 548,672, published Jan. 22, 1952.
Paper, Removable filter. Retlif Corporation. 557,533, Apr. 15; Serial No. 592,843, published Jan. 15, 1952.
Paper, Supercalendered sulphite. Rhinelander Paper Company. 557,549, Apr. 15; Serial No. 596,803, published Jan. 22, 1952.
Paper, Toilet, paper facial tissues, paper napkins, etc. Gotham Tissue Corporation. 557,653, Apr. 15; Serial No. 609,855, published Jan. 15, 1952.
Paper towels. West Disinfecting Company. 557,674, Apr. 15; Serial No. 611,163, published Jan. 22, 1952.
Paper towels. Wheeler Paper Corporation. 291,914, renewed Feb. 23, 1952. O. G. Apr. 15.
Paper, Wrapping. Stocker Manufacturing Company. 557,711, Apr. 15; Serial No. 613,534, published Jan. 15, 1952.
Paper, Wrapping. Stocker Manufacturing Company. 557,712, Apr. 15; Serial No. 613,537, published Jan. 15, 1952.
Papers, Tissue, creped, and absorbent. Scott Paper Company. 292,857, renewed Mar. 29, 1952. O. G. Apr. 15.
Partially printed marginally punched cards. Charles R. Hadley Company. 557,642, Apr. 15; Serial No. 609,035, published Jan. 15, 1952.
Partially printed or blank accounting forms. The Reynolds & Reynolds Company. 557,651, Apr. 15; Serial No. 609,760, published Jan. 22, 1952.
Pens, Fountain. Universal Fountain Pen & Pencil Co. 557,464, Apr. 15; Serial No. 563,378, published Jan. 15, 1952.
Photographic album covers, binding clips, and acetate shields. P. J. Mosberg. 557,713, Apr. 15; Serial No. 613,601, published Jan. 15, 1952.

CLASS 38

Periodicals. Fleet Reserve Association. 290,861, Jan. 19, 1932. Republished Apr. 15.
Publication, Apparel Arts Publications, Inc. 291,652, renewed Feb. 23, 1952. O. G. Apr. 15.
Publication, Monthly. Payne Coal Company, Inc. 294,396, renewed May 24, 1952. O. G. Apr. 15.
Publication, Periodical. Gulf Refining Company. 290,381, renewed Jan. 5, 1952. O. G. Apr. 15.
Publications, Monthly. Ahrens Publishing Company, Inc. 193,730, Jan. 6, 1925. Republished Apr. 15.
Section in a magazine. Models Publishing Company, Inc. 557,557, Apr. 15; Serial No. 600,501, published Jan. 1, 1952.

CLASS 39

Bandeaux, bloomers, panties, etc. Vanity Fair Silk Mills. 293,042, renewed Apr. 5, 1952. O. G. Apr. 15.
Beachwear, Teen-Age Beachwear Corp. 557,655, Apr. 15; Serial No. 609,891, published Dec. 25, 1951.
Boots and shoes, Leather and fabric. Richards & Brennan Co. 290,816, renewed Jan. 19, 1952. O. G. Apr. 15.
Caps, jackets, sweaters, etc., Men's. Grand Aerie Fraternal Order of Eagles. 557,628, Apr. 15; Serial No. 607,994, published Dec. 25, 1951.
Caps, jackets, sweaters, etc., Women's. Grand Aerie Fraternal Order of Eagles. 557,627, Apr. 15; Serial No. 607,991, published Dec. 25, 1951.
Caps, Knitted. Cap-Tur-Neck Co. 557,600, Apr. 15; Serial No. 606,266, published Jan. 22, 1952.
Caps, Ladies'. A. Kent. 557,709, Apr. 15; Serial No. 613,135, published Jan. 22, 1952.

Clothing and accessories, Men's and boys'. Hahn Department Stores, Inc. 293,918, renewed May 10, 1952. O. G. Apr. 15.
Coats and raincoats, Women's and misses'. The Ellis Coat Co., Inc. 429,794, May 20, 1947. Republished Apr. 15, 1952.
Coats, suits and topcoats, Men's sport. Major Clothing Co., Inc. 557,590, Apr. 15; Serial No. 605,102, published Jan. 22, 1952.
Corsets, corselets, girdles, etc., Ladies'. The La Resista Corset Company. 557,760, Apr. 15; Serial No. 550,531.
Corsets, girdles, brassières, etc. Blair Corset Company, Inc. 307,992, Nov. 14, 1933. Republished Apr. 15.
Dresses and dress ensembles, Ladies'. Packard Dresses, Inc. 557,584–5, Apr. 15; Serial No. 604,216–17, published Jan. 22, 1952.
Dresses, frocks, suits, etc. Kaufmann Department Stores, Inc. 373,319, Dec. 5, 1939. Republished Apr. 15.
Footwear, Waterproof and canvas rubber-soled. The Beacon Falls Rubber Shoe Company. 291,884, renewed Feb. 23, 1952. O. G. Apr. 15.
Hats. Hat Corporation of America. 557,603, Apr. 15; Serial No. 606,472, published Dec. 25, 1951.
Hats. Bernard Workman, Inc. 557,491, Apr. 15; Serial No. 581,511, published Jan. 22, 1952.
Hats and caps. Etchison Hat Company, Inc. 557,616, Apr. 15; Serial No. 607,324, published Jan. 22, 1952.
Hats, outer shirts, jackets, etc., Men's and boys' sport. Cardinal Hat Company. 557,470, Apr. 15; Serial No. 569,048, published Dec. 25, 1951.
Hats, suits, overcoats, etc. J. S. Cohen. 557,579, Apr. 15; Serial No. 602,890, published Dec. 25, 1951.
Heels and soles of boots and shoes, Rubber. Revere Rubber Company. 85,289, re-renewed Feb. 6, 1952. O. G. Apr. 15.
Heels, Rubber. Panther Rubber Manufacturing Company. 288,688, renewed Nov. 3, 1951. O. G. Apr. 15.
Hosiery. Camp and McInnes, Inc. 557,777, Apr. 15; Serial No. 603,764.
Hosiery. C. Hafela. 557,472, Apr. 15; Serial No. 571,966, published Mar. 7, 1950.
Hosiery. Van Raalte Company, Inc. 295,114, renewed June 21, 1952. O. G. Apr. 15.
Hosiery. Van Raalte Company, Inc. 295,138, renewed June 21, 1952. O. G. Apr. 15.
Hosiery. Van Raalte Company, Inc. 295,140, renewed June 21, 1952. O. G. Apr. 15.
Hosiery. J. Wesendonck. 314,039, June 19, 1934. Republished Apr. 15.
Hosiery, Women's. Sapphire Hosiery Corporation. 557,668, Apr. 15; Serial No. 610,637, published Dec. 25, 1951.
Hosiery, Women's nylon. Hans C. Bick, Inc. 557,776, Apr. 15; Serial No. 603,107.
Jackets and coats, Sport. Marcus Breier Sons, Inc. 557,483, Apr. 15; Serial No. 577,164, published Dec. 18, 1951.
Outer shirts and trousers, poloshirts and pajamas. Max Shrage Company, Inc. 557,658, Apr. 15; Serial No. 610,031, published Jan. 22, 1952.
Outer-wear and apparel, Infants' and children's. Kiddie Klothes Ko. 557,784, Apr. 15; Serial No. 611,097.
Pants, outer shirts, blouses, and flight caps, Men's. The H. D. Lee Company, Incorporated. 557,692, Apr. 15; Serial No. 612,265, published Jan. 22, 1952.
Ready-to-wear and accessories, Women's. Hahn Department Stores, Inc. 294,039, renewed May 17, 1952. O. G. Apr. 15.
Scarves, Women's. Scarves By Vera, Inc. 557,684, Apr. 15; Serial No. 611,621, published Jan. 22, 1952.
Shirts and collars, Men's outer. Austin Reed Limited. 557,639, Apr. 15; Serial No. 608,676, published Dec. 25, 1951.
Shirts and underwear, Men's and boys' outer. Cluett, Peabody & Co., Inc. 557,708, Apr. 15; Serial No. 613,120, published Jan. 22, 1952.
Shirts, Men's dress and negligee. The Manhattan Shirt Company. 557,715, Apr. 15; Serial No. 613,673, published Jan. 22, 1952.
Shirts, Men's outer. The Manhattan Shirt Company. 557,680, Apr. 15; Serial No. 611,482, published Dec. 25, 1951.
Shirts, shorts, and slacks, Children's, misses', and ladies'. Srader Sportswear. 557,773, Apr. 15; Serial No. 599,987.
Shoes, Women's. John Irving Shoe Corporation. 534,909, Dec. 19, 1950. Corrected. O. G. Apr. 15.
Socks, Knitted, and shoes, slippers, etc. John Carr Doughty Limited. 557,539, Apr. 15; Serial No. 593,911, published Jan. 22, 1952.
Sport clothing, Men's, women's and children's, and clothing for athletic contests. Mages Sport Stores, Inc. 557,489, Apr. 15; Serial No. 580,022, published Dec. 25, 1951.
Sportswear, Women's. Mari Marr Blouse Company. 557,575, Apr. 15; Serial No. 601,992, published Jan. 22, 1952.
Underwear, Ladies'. Julius Kayser & Co. 293,540, renewed Apr. 26, 1952. O. G. Apr. 15.
Underwear, Men's and boys'. The Vanta Company, Inc. 557,767, Apr. 15; Serial No. 581,302.
Underwear, Men's, boys', women's, misses' and children's, men's, boys', women's, misses' and children's sleeping garments, etc. Dri-Set Sales Company. 557,644, Apr. 15; Serial No. 609,123, published Jan. 22, 1952.
Wearing apparel. J. Daniels. 557,465, Apr. 15; Serial No. 565,238, published Dec. 11, 1951.
Wearing apparel, Men's. D. B. Rosenthal. 557,555, Apr. 15; Serial No. 598,680, published Dec. 25, 1951.

CLASS 40

Band designed to fit the contour of the head and hold securely a scarf or hood. E. Swift. 557,688, Apr. 15; Serial No. 612,044, published Jan. 22, 1952.
Buttons. Shantz Associates Incorporated. 557,696, Apr. 15; Serial No. 612,377, published Jan. 22, 1952.
Combs. H. H. Born. 557,607, Apr. 15; Serial No. 606,851, published Jan. 22, 1952.
Drapery pleaters. Vance & Co., not inc. 557,685, Apr. 15; Serial No. 611,984, published Jan. 22, 1952.
Non-electric hair wavers and curlers. Krad-L Laboratory. 557,676, Apr. 15; Serial No. 611,280, published Jan. 22, 1952.
Spool racks. M. B. Daniels & Co., Inc. 557,649, Apr. 15; Serial No. 609,587, published Jan. 22, 1952.

CLASS 42

Blankets. Beacon Manufacturing Company. 294,722, renewed June 7, 1952. O. G. Apr. 15.
Blankets, Wool. Charles Early & Co. Limited. 557,554, Apr. 15; Serial No. 597,952, published Jan. 29, 1952.
Camel hair and wool cloth in the piece. S. Stroock & Co. Inc. 293,726, renewed May 3, 1952. O. G. Apr. 15.
Fabrics. The Chemstrand Corporation. 557,506, Apr. 15; Serial No. 586,621, published Jan. 29, 1952.
Fabrics, Curtain and upholstery. Knoll Associates, Inc. 557,746, Apr. 15; Serial No. 617,503, published Jan. 15, 1952.
Fabrics, Double faced tricot knitted cotton suede glove. The E. Richard Meinig Co. 557,503, Apr. 15; Serial No. 586,008, published Jan. 22, 1952.
Fabrics, Drapery and upholstery. Titus Blatter & Company. 557,606, Apr. 15; Serial No. 606,596, published Jan. 22, 1952.
Fabrics in the piece, Woolen. Pacific Mills. 557,747, Apr. 15; Serial No. 618,212, published Jan. 29, 1952.
Piece goods. Julius N. Werk Fabrics, Inc. 557,445, Apr. 15; Serial No. 516,746, published July 27, 1948.
Piece goods, Embroidered. Embroidery Merchants Association, Inc. 557,789, Apr. 15; Serial No. 576,686.
Piece goods, luncheon sets, pillow cases, bed sheets, etc. The American Fabrics Company. 557,545, Apr. 15; Serial No. 595,932, published Jan. 29, 1952.
Piece goods, Silk. H. R. Mallinson & Co., Inc. 296,309, renewed Aug. 2, 1952. O. G. Apr. 15.
Plastic film. The Firestone Tire & Rubber Company. 557,498, Apr. 15; Serial No. 584,902, published Jan. 29, 1952.
Rugs and carpets, Textile. Hugh Nelson-Columbia Carpet Mills, Inc. 557,783, Apr. 15; Serial No. 609,241.

CLASS 43

Threads, Sewing. Max Pollack & Co., Inc. 290,289, renewed Dec. 29, 1951. O. G. Apr. 15.
Threads, Sewing. Max Pollack & Co., Inc. 290,680, renewed Jan. 12, 1952. O. G. Apr. 15.

CLASS 44

Artificial teeth. Dr. Hiltebrandt Zahnfabrik Aktiengesellschaft. 259,601, renewed Aug. 6, 1949. O. G. Apr. 15.
Heating pads for therapeutic purposes. G. J. Yore. 557,490, Apr. 15; Serial No. 580,913, published Jan. 22, 1952.
Hernia supporting trusses. Piper Brace Co. 557,463, Apr. 15; Serial No. 562,083, published Nov. 13, 1951.
Home permanent wave kit. Holmes Cosmetics, Inc. 557,702, Apr. 15; Serial No. 612,692, published Jan. 15, 1952.
Nebulizing or atomizing appliances. The Pineoleum Company. 295,231, renewed June 21, 1952. O. G. Apr. 15.
Sanitary napkins. Kaufmann Department Stores, Inc. 350,200, Sept. 21, 1937. Republished Apr. 15.

CLASS 45

Beverages, Nonalcoholic, noncereal, maltless. C. A. Meyerowich. 357,895, June 21, 1938. Republished Apr. 15.
Fruit juices, Non-alcoholic, maltless. Ste Pierre Smirnoff Fils, Incorporated. 309,865, Feb. 6, 1934. Republished Apr. 15.
Syrups, Non-alcoholic, maltless, concentrated. J. Di Santo. 290,574, renewed Jan. 12, 1952. O. G. Apr. 15.

CLASS 46

Apples, apricots, cherries, etc., Fresh. California Fruit Exchange. 291,904, Feb. 23, 1932. Republished Apr. 15.
Borscht, caviar. Ste. Pierre Smirnoff Fils, Inc. 557,768, Apr. 15; Serial No. 591,810.
Bread. Eddy Bakeries, Inc. 557,462, Apr. 15; Serial No. 561,737, published Sept. 4, 1951.
Candies. Shenandoah Candy Company, Inc. 557,473, Apr. 15; Serial No. 573,007, published Jan. 22, 1952.
Candies, candied nut products. Henry Heide, Incorporated. 293,766, renewed May 3, 1952. O. G. Apr. 15.
Candy. Peoples Drug Stores, Inc. 557,671, Apr. 15; Serial No. 610,921, published Jan. 22, 1952.
Candy cigarettes. Sylvan Sweets Co. 557,550, Apr. 15; Serial No. 596,959, published Jan. 22, 1952.

Canned citrus food products. Bordo Products Company. 557,690, Apr. 15; Serial No. 612,117, published Jan. 15, 1952.
Canned citrus food products. Bordo Products Company. 557,691, Apr. 15; Serial No. 612,119, published Jan. 15, 1952.
Canned foods; butter, and vinegar. Schuylkill Valley Grocery Co., Inc. 557,480, Apr. 15; Serial No. 576,558, published Jan. 22, 1952.
Canned frozen cranberry juice. National Cranberry Association. 557,581, Apr. 15; Serial No. 603,340, published Jan. 8, 1952.
Canned fruits. Greco Canning Company, Inc. 236,602, Dec. 20, 1927. Republished Apr. 15.
Canned fruits, canned vegetables. Greco Canning Co., Inc. 291,197, Feb. 2, 1932. Republished Apr. 15.
Canned fruits, canned vegetables, and canned berries. Comstock Canneries, Inc. 293,354, renewed Apr. 19, 1952. O. G. Apr. 15.
Canned salmon. Wards Cove Packing Co., Inc. 557,495, Apr. 15; Serial No. 584,176, published Jan. 22, 1952.
Canned tomato product. Can-Rite Food Products Company. 557,496, Apr. 15; Serial No. 584,478, published Jan. 15, 1952.
Canned tuna fish, salmon, shrimps, etc. Baffin, Inc. 557,770, Apr. 15; Serial No. 597,314.
Canned vegetables. Ozark Packing Company, Inc. 557,771, Apr. 15; Serial No. 599,110.
Cereal, Prepared breakfast. George King & Company Limited. 557,457, Apr. 15; Serial No. 556,015, published Jan. 1, 1952.
Cheese filled toasted appetizers, Crisp. E. M. Henderson. 557,608, Apr. 15; Serial No. 606,975, published Jan. 29, 1952.
Cheeses and fruit preserves. Absalon Brands, Inc. 557,586, Apr. 15; Serial No. 604,287, published Dec. 11, 1951.
Coffee, hamburger sandwiches, and other sandwiches. White Tower Management Corporation. 557,475, Apr. 15; Serial No. 573,807, published Jan. 22, 1952.
Cookies. Zion Industries, Inc. 557,677, Apr. 15; Serial No. 611,325, published Jan. 8, 1952.
Edible starch. National Starch Company. 85,159, re-renewed Jan. 30, 1952. O. G. Apr. 15.
Fish, Fresh, frozen, and canned. Viking Products, Inc. 557,693, Apr. 15; Serial No. 612,287, published Dec. 11, 1951.
Flour, Wheat. General Mills, Inc. 291,751, renewed Feb. 23, 1952. O. G. Apr. 15.
Food for dogs, cats, etc. Marnat Packing Company. 557,505, Apr. 15; Serial No. 600,440, published Jan. 22, 1952.
Fruits, Fresh citrus. Riverside Citrus Association. 557,761–2, Apr. 15; Serial Nos. 554,416–17.
Ham and bacon. Armour and Company. 557,448, Apr. 15; Serial No. 540,967, published Jan. 29, 1952.
Honey, salad dressing, prepared mustard, etc. Jewett & Sherman Company. 557,620, Apr. 15; Serial No. 607,818, published Jan. 29, 1952.
Icings for cake, doughnuts, and the like. National Syrup Products Company. 557,764, Apr. 15; Serial No. 561,330.
Lettuce, Fresh. Ice Kist Packing Company. 557,461, Apr. 15; Serial No. 560,412, published Jan. 15, 1952.
Macaroni, High-protein. The American Beauty Macaroni Co. 557,597, Apr. 15; Serial No. 606,066, published Dec. 4, 1951.
Meats, Prepared. United Packers, Inc. 557,552, Apr. 15; Serial No. 597,421, published Jan. 22, 1952.
Pepper, Black; crushed, red, Italian style pepper, red pepper, etc. McCormick & Company, Incorporated. 557,672, Apr. 15; Serial No. 611,032, published Jan. 22, 1952.
Poultry, Dressed, and fresh eggs. J. T. Russell & Son Produce Company. 557,706, Apr. 15; Serial No. 613,025, published Jan. 22, 1952.
Salt. The Carey Salt Company. 290,730, renewed Jan. 12, 1952. O. G. Apr. 15.
Salt. The Hutchinson-Kansas Salt Company. 86,991, re-renewed June 18, 1952. O. G. Apr. 15.
Sandwiches. Marshall's. 557,532, Apr. 15; Serial No. 592,823, published Jan. 15, 1952.
Tea. R. Baumgarten. 557,785, Apr. 15; Serial No. 611,634.
Tomatoes, Fresh. B & M Tomato & Produce Company. 557,683, Apr. 15; Serial No. 611,595, published Jan. 22, 1952.
Vegetables, Fresh. Hillsboro Plantation, Inc. 557,781, Apr. 15; Serial No. 607,291.
Vegetables, Fresh. Resetar Produce Company. 557,721, Apr. 15; Serial No. 614,097, published Jan. 22, 1952.
Water ice confections. Vitafreze Corporation. 557,542, Apr. 15; Serial No. 595,178, published Jan. 29, 1952.

CLASS 49

Alcoholic liquor. Distilled. Ste Pierre Smirnoff Fils, Inc. 394,058, Mar. 17, 1942. Republished Apr. 15.
Rum. Compania Ron Bacardi, S. A. 284,224, renewed June 16, 1951. O. G. Apr. 15.
Vodka. Ste Pierre Smirnoff Fils, Incorporated. 327,645, Sept. 3, 1935. Republished Apr. 15.
Vodka. Ste Pierre Smirnoff Fils, Incorporated. 328,594, Oct. 1, 1935. Republished Apr. 15.
Vodka. Ste Pierre Smirnoff Fils, Incorporated. 330,899, Dec. 17, 1935. Republished Apr. 15.

CLASS 50

Advertising signs, Non-electrical. Snyder & Black. 557,537, Apr. 15; Serial No. 593,570, published Nov. 13, 1951.
Feeders for livestock and poultry. C. E. Fenton. 557,786, Apr. 15; Serial No. 612,248.
Figurines, Porcelain. Castle Distributing Corporation. 557,641, Apr. 15; Serial No. 608,981, published Nov. 13, 1951.
Kits or packages containing cooking tubes or molds, etc. Mrs. C. Cordray. 557,528, Apr. 15; Serial No. 591,358, published Nov. 13, 1951.
Monuments, markers and memorials. J. P. Gilman Granite Company. 557,460, Apr. 15; Serial No. 560,330, published Dec. 25, 1951.
Mounted and unmounted blank printing plates. Farrington Manufacturing Company. 557,626, Apr. 15; Serial No. 607,984, published Nov. 13, 1951.
Plastic sheet material simulating leather. Jamestown Finishing Products, Inc. 557,534, Apr. 15; Serial No. 593,275, published Nov. 13, 1951.
Poultry nests. Hansen's Processes, Inc. 557,778, Apr. 15; Serial No. 604,095.
Rubber, covers, Pre-shaped. The Danbury Rubber Company, Inc. 557,595, Apr. 15; Serial No. 605,999, published Nov. 13, 1951.
Shoe trees. George E. Belcher Company. 557,622, Apr. 15; Serial No. 607,924, published Nov. 13, 1951.
Table pads, Rigid-type. Nova Manufacturing Co., Inc. 557,782, Apr. 15; Serial No. 608,563.

CLASS 51

Body deodorants. Jules Montenier, Inc. 557,775, Apr. 15; Serial No. 602,735.
Dentifrice. Kabushiki Kaisha Hirao Sampei Shoten. 255,864, renewed Apr. 30, 1949. O. G. Apr. 15.
Drugs, chemicals, and pharmaceutical preparations, Various. San Antonio Drug Company. 557,459, Apr. 15; Serial No. 558,597, published Dec. 25, 1951.
Eau de cologne, toilet water, lotions, etc. Societe Lancôme, S. A. 557,765, Apr. 15; Serial No. 577,010.
Facial creams, lip and cheek rouges, face powders, etc. S. Rose. 557,536, Apr. 15; Serial No. 593,444, published Dec. 11, 1951.
Perfumes. I. F. Craft. 557,524, Apr. 15; Serial No. 590,653, published Jan. 1, 1952.
Perfumes, face creams, rouge, etc. Bienaime, Inc. 557,759, Apr. 15; Serial No. 547,163.
Theatrical grease paint. The Cramer Chemical Co. 557,515, Apr. 15; Serial No. 589,569, published Dec. 25, 1951.

CLASS 52

Cleaning compounds, Detergent. Champion & Barber, Inc. 288,110, renewed Oct. 20, 1951. O. G. Apr. 15.
Shampoo. Cynthia Andrews, Inc. 557,572, Apr. 15; Serial No. 601,347, published Jan. 15, 1952.
Shampoo. Lenwells, Inc. 295,188, renewed June 21, 1952. O. G. Apr. 15.
Soap powder, household cleanser, and dishwashing compound. Francis H. Leggett & Company. 557,621, Apr. 15; Serial No. 607,821, published Dec. 18, 1951.
Soap, Toilet. Colgate-Palmolive-Peet Company. 290,477, renewed Jan. 5, 1952. O. G. Apr. 15.

CLASS 101

Preparation of advertising pamphlets and circulars. Automotive Advertisers Council. 557,754, Apr. 15; Serial No. 586,513, published Jan. 22, 1952.
Printing services. Thomsen-Ellis-Hutton Company. 557,755, Apr. 15; Serial No. 596,816, published Jan. 22, 1952.
Promoting sales in restaurants and cafes. D. R. Kirby. 557,752, Apr. 15; Serial No. 564,574, published Jan. 22, 1952.

CLASS 103

Interior decorating services. Sears, Roebuck and Co. 557,733, Apr. 15; Serial No. 573,208, published Jan. 22, 1952.
Maintenance and repair of dishwashing and sterilizing equipment. Auto Chlor System, Inc. 557,756, Apr. 15; Serial No. 598,626, published Jan. 22, 1952.

CLASS 105

Arranging and conducting travel tours and arranging hotel accommodations for tourists. Happiness Tours. 557,757, Apr. 15; Serial No. 604,694, published Jan. 22, 1952.
Arranging and conducting travel tours and arranging hotel accommodations for tourists. Happiness Tours. 557,758, Apr. 15; Serial No. 604,705, published Jan. 22, 1952.

LIST OF PLANT PATENTEES

Williams, Esther M.: *See*—
Williams, Keith E. and E. M.

Williams, Keith E. and E. M., Springfield, Ohio. Ivy plant. 1,082, Apr. 15.

LIST OF DESIGN PATENTEES

American Optical Company, assignee: *See*—
Armbruster, John T.

Armbruster, John T., Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass. Ophthalmoscope. 166,438, Apr. 15.

Badami, Anthony, Philadelphia, Pa. Roll holder. 166,439, Apr. 15.

Benson, Haskell, Chicago, Ill. Flying toy. 166,440, Apr. 15.

Bert, Malcolm C., Jr., Inglewood, Calif. Barbeque fork. 166,441, Apr. 15.

Black, John M., assignor, by mesne assignments, to Superior Plastics Inc., Chicago, Ill. Multitray serving receptacle. 166,442, Apr. 15.

Bryce Brothers Company, assignee: *See*—
Morrison, William P.

Buzasi, Eugene, Sunnyside, assignor to S. Hering, New York, N. Y. Hair curler or similar article. 166,443, Apr. 15.

Canal National Bank of Portland, The, trustee, assignee: *See*—
Randall, Walter H.

Carré, Franck H., Van Nuys, Calif. Child's feeding spoon. 166,444, Apr. 15.

Carr-Lowrey Glass Co., assignee: *See*—
Funkey, John H.

Central Steel and Wire Company, assignee: *See*—
Slingerland, John H.

Columbus Plastic Products, Inc., assignee: *See*—
Roop, Nathan W.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,445, Apr. 15.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,446, Apr. 15.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,447, Apr. 15.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,448, Apr. 15.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,449, Apr. 15.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,450, Apr. 15.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,451.

Conover, Helen, Chicago, assignor to The Haeger Potteries, Inc., Dundee, Ill. Vase or similar article. 166,452, Apr. 15.

Cuccio, John D., assignor to The Studebaker Corporation, South Bend, Ind. Medallion. 166,453, Apr. 15.

Derby Sealers, Incorporated, assignee: *See*—
Krueger, Alfred P.

De Sá Cardoso, Carlos E., Lisbon, Portugal. Nongurgling bottle. 166,454, Apr. 15.

Despres, Urban H., Clinton, Maine. Packing flat. 166,455, Apr. 15.

Dokus, Adrienne B. J. and J. I., Newark, N. J., Condiment holder. 166,456, Apr. 15.

Dokus, John I.: *See*—
Dokus, Adrienne B. J. and J. I.

Dreyfuss, Henry, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn. Winding-key for a clock or similar article. 166,457, Apr. 15.

Edwards, James J., High Point, N. C. Fish bowl. 166,458, Apr. 15.

Fenlason, Donna L., New York, N. Y. Slipper. 166,459, Apr. 15.

Freedman, Edith: *See*—
Skelly, Harry L., and Freedman.

French, Richard S., Waterville, Maine. Molded pulp insulation article. 166,460, Apr. 15.

Funkey, John H., assignor to Carr-Lowrey Glass Co., Baltimore, Md. Bottle. 166,461, Apr. 15.

Glavin, Thomas A., assignee: *See*—
White, Ara L.

Goldstein, Daniel, assignor to Schenley Industries, Inc., New York, N. Y. Bottle. 166,462, Apr. 15.

Goulart, Joseph, San Diego, Calif. Davenport. 166,463, Apr. 15.

Gunning, Joseph H., Los Angeles, Calif. Cart for transporting a golf bag or the like. 166,464, Apr. 15.

Haeger Potteries, Inc., The, assignee: *See*—
Conover, Helen.

Hardy, William H., River Edge, N. J. Handbag. 166,465, Apr. 15.

Hering, Sara, assignee: *See*—
Buzasi, Eugene.

Herrmann, Edward E., assignor to The Studebaker Corporation, South Bend, Ind. Medallion. 166,466, Apr. 15.

Hooven, Florence S., executrix: *See*—
Hooven, Howard D.

Hooven, Howard D., deceased, Doylestown, Pa., by F. S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company. Tablecloth. 166,467, Apr. 15.

Hooven, Howard D., deceased, Doylestown, Pa., by F. S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company. Tablecloth. 166,468, Apr. 15.

Hooven, Howard D., deceased, Doylestown, Pa., by F. S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company. Tablecloth. 166,469, Apr. 15.

Hooven, Howard D., deceased, Doylestown, Pa., by F. S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company. Tablecloth. 166,470, Apr. 15.

Ingraham, E., Company, The, assignee: *See*—
Dreyfuss, Henry.

Junghans, Max, Boonton, N. J., assignor to Van Raalte Company, Inc., New York, N. Y. Stocking. 166,471, Apr. 15.

Kaplan, Samuel, Beverly Hills, Calif. Sole for a boot or similar article. 166,472, Apr. 15.

Krebs, Bernard and M., New York, N. Y. Moneybag bank. 166,473, Apr. 15.

Krebs, Morton: *See*—
Krebs, Bernard and M.

Krueger, Alfred P., Stratford, assignor to Derby Sealers, Incorporated, Derby, Conn. Tape dispenser or similar article. 166,474, Apr. 15.

Lenoir Hosiery Mills, Inc., assignee: *See*—
Maye, Ernest A., and Powell.

Lewis, Raymond F., Vancouver, British Columbia, Canada. Airship. 166,475, Apr. 15.

Lyon, George A., Detroit, Mich. Wheel cover member or similar article. 166,476, Apr. 15.

Margo Wine Company, assignee: *See*—
Margolis, John A.

Margolis, John A., assignor to Margo Wine Company, Philadelphia, Pa. Decanter bottle. 166,477, Apr. 15.

Mart, Harry A., Chicago, Ill. Combined receptacle and closure member therefor. 166,478, Apr. 15.

Maye, Ernest A., Lenoir, and W. M. Powell, Valdese, N. C., assignors to Lenoir Hosiery Mills, Inc. Lady's stocking. 166,479, Apr. 15.

Miller, Melv'n G., Houston, Tex. Grease jar. 166,480, Apr. 15.

Morrison, William P., assignor to Bryce Brothers Company, Mount Pleasant, Pa. Goblet or similar article. 166,481, Apr. 15.

Mosher, Asa H., Westfield, N. J. Battery filler unit. 166,482, Apr. 15.

Mosler Safe Company, The, assignee: *See*—
Rutan, Earl F.

Mueller, Walter, Clifton, N. J. Lady's stocking. 166,483, Apr. 15.

Nash, Charles A., Seattle, Wash. Combination toy chair, cradle, and table. 166,484, Apr. 15.

Newman, Morris, assignor to Surprise Brassiere Co., Inc., New York, N. Y. Brassière. 166,485, Apr. 15.

Nulty, William B., trustee, assignee: *See*—
Randall, Walter H.

Nyholm, Erik G., Falun, Sweden. Hourglass. 166,486, Apr. 15.

Parker, William E., Warren, Ohio. Mop. 166,487, Apr. 15.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a bracelet or the like. 166,488, Apr. 15.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 166,489, Apr. 15.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Link chain for a necklace or the like. 166,490, Apr. 15.

Philippe, Alfred, Scarsdale, N. Y. Brooch or the like. 166,491, Apr. 15.

Powell, William M.: *See*—
Maye, Ernest A., and Powell.

Quaker Lace Company, assignee: *See*—
Hooven, Howard D.
Randall, Walter H., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland and W. B. Nulty, Portland, Maine, as trustees. Pack for fruit or similar articles. 166,492, Apr. 15.
Randall, Walter H., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland and W. B. Nulty, Portland, Maine, as trustees. Pack for fruit or similar articles. 166,493, Apr. 15.
Reichman, Harry A., Chicago, Ill. Automobile wind deflector. 166,494, Apr. 15.
Reichman, Harry A., Chicago, Ill. Combination vehicle hood ornament and deflector. 166,495, Apr. 15.
Reichman, Harry A., Chicago, Ill. Combination vehicle hood ornament and deflector. 166,496, Apr. 15.
Richford Corporation, assignee: *See*—
Roehrich, Paul E.
Roehrich, Paul E., Rockville Centre, assignor to Richford Corporation, New York, N. Y. Dispensing container for fluid. 166,497, Apr. 15.
Roop, Nathan W., assignor to Columbus Plastic Products, Inc., Columbus, Ohio. Cake receptacle or similar article. 166,498, Apr. 15.
Rutan, Earl F., Pound Ridge, N. Y., assignor to The Mosler Safe Company, Hamilton, Ohio. Combination handle and lock unit. 166,499, Apr. 15.
Schenley Industries, Inc., assignee: *See*—
Goldstein, Daniel.
Shalom, Nessim, Brooklyn, N. Y. Tablecloth or similar article. 166,500, Apr. 15.
Shalom, Nessim, Brooklyn, N. Y. Tablecloth or similar article. 166,501, Apr. 15.
Shalom, Nessim, Brooklyn, N. Y. Tablecloth or similar article. 166,502, Apr. 15.
Skelly, Harry L., and E. Freedman, Reno, Nev. Casing for an amusement game. 166,503, Apr. 15.
Slingerland, John H., Wheaton, assignor to Central Steel and Wire Company, Chicago, Ill. Decimal chart or similar article. 166,504, Apr. 15.
Smith, Edwin W., Dallas, Tex. Hydraulic pocket slasher. 166,505, Apr. 15.
Sorrentino, Vincent, Providence, R. I., assignor to Uncas Manufacturing Company. Pendant. 166,507, Apr. 15.
Sprengnether, Roberta L., administratrix: *See*—
Sprengnether, William F., Jr.
Sprengnether, William F., Jr., deceased, St. Louis, Mo.; R. L. Sprengnether, administratrix of said W. F. Sprengnether, Jr. Builder's transit level. 166,506, Apr. 15.
Studebaker Corporation, The, assignee: *See*—
Cuccio, John D.
Hermann, Edward E.
Superior Plastics Inc., assignee: *See*—
Black, John M.
Surprise Brassiere Co. Inc., assignee: *See*—
Newman, Morris.
Tobler, Hans, Teaneck, N. J. Embroidered trimming or similar article. 166,508, Apr. 15.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Uncas Manufacturing Company, assignee: *See*—
Sorrentino, Vincent.
Van Raalte Company, Inc., assignee: *See*—
Junghans, Max.
Vernon, William F., Newton, Iowa. Ash tray. 166,509, Apr. 15.
Watral, Henry J., Ramsey, N. J. Drainer for dishes, glassware, and silverware. 166,510, Apr. 15.
Werner, William F., assignee: *See*—
White, Ara L.
Westmore, Ernest H., North Hollywood, Calif. Illuminable make-up mirror. 166,511, Apr. 15.
White, Ara L., assignor of one-third to T. A. Glavin, Edgewood, and one-third to W. F. Werner, Providence, R. I. Cigarette case or similar article. 166,512, Apr. 15.
Wiggins, Walter, Jr., Beaver Heights, Md. Marine vessel. 166,513, Apr. 15.
Wiggins, Walter, Jr., Beaver Heights, Md. Passenger boat. 166,514, Apr. 15.
Williams, Philip M., Oakland, Maine. Packing sheet for fragile articles. 166,515, Apr. 15.
Yellin, Bernard, Chicago, Ill. Windmill knife holder. 166,516, Apr. 15.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbott Worsted Mills, Incorporated, assignee: *See*—
Perry, Winthrop L.
Abercrombie, Charles W., Bridgeport, Conn., assignor, by mesne assignments, to Karen Products, Inc., New York, N. Y. Pressure cooker relief valve. 2,592,992, Apr. 15.
Acme Electric Corporation, assignee: *See*—
Havasi, Emil A.
Acme Scientific Company, assignee: *See*—
Dauber, Joseph.
Actiengesellschaft Joh. Jacob Rieter & Cie, assignee: *See*—
Naegeli, Werner.
Acton, Russel D., Chicago, Ill. Tractor operated dump rake. 2,592,841, Apr. 15.
Adamo, Fiorentino, Providence, R. I., assignor to Oriental Glass & Novelty Company, Inc. Button loop forming mechanism. 2,593,083, Apr. 15.
Adams, Bruce P., Wilmette, assignor to Pelouze Manufacturing Company, Evanston, Ill. Scale structure. 2,593,237, Apr. 15.
Adams, Eli J., Rogersville, Mo. Loading and unloading device. 2,592,993, Apr. 15.
Adams, William J., assignee: *See*—
Albright, John C.
Adamson, Frank M.: *See*—
Cadwell, Clarence J., and Adamson.
Advance Solvents & Chemical Corporation, assignee: *See*—
Mack, Gerry P., and Parker.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Daul, George C., and Reid.
MacMasters, Majel M., Baird, and Rist.
Aherne-Heron, John, Farnham Common, Buckinghamshire, assignor to Aviation Developments Limited, Welwyn Garden City, Herts, England. Riveting gun and magazine therefor. 2,592,636, Apr. 15.
Ahlmann, Nikolai, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Method and apparatus for grinding by the use of grinding bodies subjected to centrifugal force. 2,592,994, Apr. 15.
Ainsworth, Thomas H., Drexel Hill, Pa., assignor to General Steel Castings Corporation, Granite City, Ill. Centering device for engine trucks. 2,592,637, Apr. 15.
Air Reduction Company, Incorporated, assignee: *See*—
Heidbrink, Jay A.
Air-Shields, Inc., assignee: *See*—
Gibbon, Samuel Y.
Albright, John C., assignor of one-half to W. J. Adams, Chicago, Ill. Thermally responsive device. 2,593,238, Apr. 15.
Alderson, Samuel W., New York, N. Y. Shoulder harness for artificial arms. 2,592,842, Apr. 15.
Alstrand, Dale V.: *See*—
Treelease, Richard D., Sampson, and Alstrand.
American Blower Corporation, assignee: *See*—
Beranek, Rudolph B.
American Can Company, assignee: *See*—
Treiease, Richard D., Sampson, and Alstrand.
American Car and Foundry Company, assignee: *See*—
Folmsbee, Clyde H.
American Cyanamid Company, assignee: *See*—
Bernstein, Seymour, and Giancola.
Bernstein, Seymour, and Sax.
Nagy, Daniel E.
American Dairies Incorporated, assignee: *See*—
Graham, William R., Jr., and Chrisman.
American Linen Supply Co., assignee: *See*—
Birr, Rudolph G.
American Manufacturing Company, Inc., assignee: *See*—
Croston, Edward L.
American Optical Company, assignee: *See*—
Jardon, Frits W.
American Phenolic Corporation, assignee: *See*—
Quackenbush, Edward C.
American Seating Company, assignee: *See*—
Hoven, Alfred C., Nordmark, and Lindberg.
Patterson, Robert C.
American Steel Foundries, assignee: *See*—
Watts, Raymond.
Whitney, Loren L.
American Sterilizer Company, assignee: *See*—
Jewell, Raymond L., and Freese.
American Viscose Corporation, assignee: *See*—
Goodwin, Chester H.
Haley, Hugh D.
Amstutz, Edward D., Bethlehem, Pa., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio. 2-amino-7-heterocyclicaminothioxanthenes. 2,592,529, Apr. 15.
Anderle, Joseph A., Westerleigh, assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y. Venetian blind construction. 2,592,995, Apr. 15.
Anderson, Alexander, assignor to Anderson, Boyes & Company Limited, Motherwell, Scotland. Mining machine. 2,592,996, Apr. 15.
Anderson, Boyes & Company Limited, assignee: *See*—
Anderson, Alexander.
Anderson, Gustave A., New York, and C. I. Kane, Rye, assignors to The International Handkerchief Manufacturing Company, Long Island City, N. Y. Material folding machine. 2,593,085, Apr. 15.
Anderson, Vern C., Hastings, Nebr. Adjustable apron feeder. 2,593,084, Apr. 15.
Anderson, Victor E., Owensboro, Ky. Storm window structure. 2,593,239, Apr. 15.
Andrew, Harry A., Grand River, Iowa. Feeder for livestock or poultry. 2,592,638, Apr. 15.
Andrews, Boley A., Kansas City, Kans., assignor, by mesne assignments, to The Vendo Company, Kansas City, Mo. Spring actuated slide snap hook. 2,592,843, Apr. 15.
Anthony Company, assignee: *See*—
Anthony, William C., and Wachter.
Wachter, Lester W.
Anthony, William C., and L. W. Wachter, assignors to Anthony Company, Streator, Ill. Gate moving means for vehicles. 2,593,240, Apr. 15.
Antonson, John O., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire construction. 2,592,844, Apr. 15.
Anxionnaz, René, assignee: *See*—
Sédille, Marcel H. L.
Sédille, Marcel H. L., and Ménard.
Armstrong, Daniel A., and H. K. Palmer, assignors to Scott-Atwater Manufacturing Company, Minneapolis, Minn. Outboard motor starting device. 2,592,639, Apr. 15.
Armstrong, Francis J., Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y. Filter. 2,592,527, Apr. 15.
Aro Equipment Corporation, The, assignee: *See*—
Fenger, Nicholas.
Sneller, James A.
Aron, Edmund, assignor to Moto-Sway Corporation of America, South Pasadena, Calif. Chassis supporting structure for vehicle lifts. 2,592,845, Apr. 15.
Artsay, Nicholas C., Valhalla, assignor to Foster Wheeler Corporation, New York, N. Y. Steam separator. 2,592,530, Apr. 15.
Ash, Charles S., Milford, Mich. Vehicle wheel. 2,592,997, Apr. 15.
Aspegren, Olof E. A., Stockholm, Sweden. Rotary heat exchanger. 2,592,783, Apr. 15.
Atlantic Refining Company, The, assignee: *See*—
Woods, John P.
Attorney General of the United States, vested in the, assignee: *See*—
Biginelli, Oreste F. A.
Aust, Robert J., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Voltage regulator for battery-charging sysem. 2,593,241, Apr. 15.
Automatic Electric Laboratories, Inc., assignee: *See*—
Bakker, Pier.
Lomax, Clarence E.
Automatic Totalisators Limited, assignee: *See*—
Julius, Awdry F. and G. A.
Autopoint Company, assignee: *See*—
Woods, Fred D.
Aviation Developments Limited, assignee: *See*—
Aherne-Heron, John.
Ayars, Harry D., Salem, N. J. Filler valve and actuating mechanism therefor. 2,592,846, Apr. 15.
Ayers, George W., Chicago, M. J. Geerts, Evanston, and W. A. Krewer, Skokie, assignors to The Pure Oil Company, Chicago, Ill. Removal of hydrogen sulfide and mercaptans from gases or liquids such as petroleum or petroleum fractions. 2,592,523, Apr. 15.
Babics, George, Chicago, Ill. Protecting system for photoelectric cells in liquid fuel burner controls. 2,592,847, Apr. 15.
Bache, John K., assignor to George Salter & Co. Limited, West Bromwich, England. Weighing machine. 2,593,086, Apr. 15.

Bacon, Warren, Chicago, Ill., and K. H. Hansen, White Plains, N. Y., assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Switching type conveyer. 2,593,242, Apr. 15.

Baehr, Carl G.: *See*—
Burgess, Robert W., Baehr, and Connors.

Baggett, Leonard P., Portsmouth, Va. Electrically heated toilet seat. 2,593,087, Apr. 15.

Bailey Company, Inc., The, assignee: *See*—
Johnson, Leonard W., and Pottle.

Bailey Meter Company, assignee: *See*—
Johnson, Clarence.
Shannon, Jack F.

Bailis, Reuben, Philadelphia, Pa. Flash removing apparatus. 2,592,640, Apr. 15.

Baird, Peggy: *See*—
MacMasters, Majel M., Baird, and Rist.

Baird, Philip, assignor to Cee-Kleer Products, Inc., Cincinnati, Ohio. Sight glass fitting for piping systems. 2,592,848, Apr. 15.

Baker, Harry F.: *See*—
Seright, Carl G., and Baker.

Baker, James G., Orinda, Calif., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn. Panoramic camera. 2,593,088, Apr. 15.

Baker-Ross, Inc.: *See*—
Droeger, Carl C., Meloy, and Roggie.

Bakker, Pier, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Restricted service telephone system. 2,592,784, Apr. 15.

Balderstone, Edward, Oakford, Pa., assignor to The S. S. White Dental Manufacturing Company. Joint structure for pivoted tools. 2,592,641, Apr. 15.

Baldwin-Lima-Hamilton Corporation, assignee: *See*—
Moore, John H.

Baldwin Rubber Company, assignee: *See*—
Hunter, Gerald G.

Ball, John S.: *See*—
Lockwood, Joseph F., and Ball.

Ball Renu, Inc., assignee: *See*—
Smith, Cloyd D.

Bailey, Ronald A., assignor to Wipac Filtration Limited, Bletchley, England. Filter. 2,592,849, Apr. 15.

Bancroft, Joseph, & Sons Co., assignee: *See*—
Billingsley, George A., Jr., and Hall.

Banthin, John F., Bridgeport, Conn. Feeder and impression cylinder control for printing presses. 2,592,998, Apr. 15.

Barbery, Lucille M., assignor to Foley Manufacturing Company, Minneapolis, Minn. Sifter. 2,592,850, Apr. 15.

Bardet, Gérard, Paris, France. Device for filling receptacles with cylindrical articles. 2,592,642, Apr. 15.

Barker Poultry Equipment Company, assignee: *See*—
Swanson, Oscar W.

Barnes, Jeffery W., Farnborough, England. Gyroscope. 2,592,643, Apr. 15.

Barry, Joseph, Richmond Hill, N. Y. Window sash lock. 2,593,243, Apr. 15.

Barry, Leonard D., Detroit, Mich. Roller conveyer construction. 2,593,089, Apr. 15.

Bartenfeld, Wilford G., Lakewood, Ohio. Ship tank top and hopper construction. 2,592,999, Apr. 15.

Bartlett, Ralph G., Lakeland, Fla. Hand truck. 2,592,644, Apr. 15.

Bartoss, Frank J., Cranford, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Forming a seam for uniting plies of sheet material. 2,593,090, Apr. 15.

Batcha, John J., Detroit, Mich. Writing game planchette. 2,593,244, Apr. 15.

Bauer, Russell E., Detroit, Mich. Measuring gauge. 2,592,840, Apr. 15.

Baxter, James G., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Formylating tocopherol material. 2,592,531, Apr. 15.

Bayless, Frederick B., Midland, Tex., assignor to Phillips Petroleum Company. Hydraulic torque indicator. 2,593,000, Apr. 15.

Beaver, Hartsell W., Blakely, Ga., assignor to Turner Manufacturing Company, Statesville, N. C. Peanut harvesting apparatus. 2,593,383, Apr. 15.

Beck, Lester E., Danville, and L. R. Callaway, Burlington, Iowa. Posthole digger. 2,593,245, Apr. 15.

Beck, William R., assignor to Goodman Manufacturing Company, Chicago, Ill. Shuttle car. 2,592,532, Apr. 15.

Bell, Richmond T., Grays Lake, assignor to The Pure Oil Company, Chicago, Ill. Regeneration and preconditioning of a methanethiol synthesis catalyst. 2,592,646, Apr. 15.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Brehem, Harold B.
Buhrendorf, Frederick G.
Craft, Clifford J., 3rd.
Cutler, Cassius C.
Ekstrand, Sture O., and Ronci.
Gray, Frank.
Klaser, John P.
Lewis, Willard D.
Mohr, Milton E.
Mott, Edward E.
Pennell, Everett S.
Stone, John B.
Wilson, Ira G.

Bell, William D.: *See*—
Thompson, Frank R., and Bell.

Belpedio, Jobby, Bridgeport, Conn. Crown cap removing and retaining implement. 2,593,091, Apr. 15.

Bender, Emil A., Bakersfield, Calif. Portable derrick. 2,593,246, Apr. 15.

Bender, Harry, and H. M. Pitt, Torrance, Calif., assignors to Stauffer Chemical Company. Manufacture of a diphenyl sulfone. 2,593,001, Apr. 15.

Bendix Aviation Corporation, assignee: *See*—
Divoll, Richard L.
Livers, Carlos B., and Meddock.
Miller, Donald L.
Stamper, Hamilton A.
Stuart, Alfred A., Jr.

Bendix-Westinghouse Automotive Air Brake Company, assignee: *See*—
Casler, Roger H.

Benteman, Arland E., Randolph, Kans. Coupling pin lock for trailer hitches. 2,593,247, Apr. 15.

Beranek, Rudolph B., Columbus, Ohio, assignor to American Blower Corporation, Dearborn, Mich. Fan wheel. 2,592,851, Apr. 15.

Bergstein, Frank D., Wyoming, Ohio. Partition structure and making it. 2,593,092, Apr. 15.

Berkow, Samuel G., Perth Amboy, N. J. Dermasector. 2,592,533, Apr. 15.

Bernard, John E., Jr., assignor to Walker Machine & Foundry Corporation, Roanoke, Va. Bench grinder. 2,592,785, Apr. 15.

Bernhardt, Ella H., New York, N. Y. Bust form. 2,593,002, Apr. 15.

Bernstein, Seymour, and K. J. Sax, Pearl River, assignors to American Cyanamid Company, New York, N. Y. Androstatrienes and preparing the same. 2,593,248, Apr. 15.

Bernstein, Seymour, Pearl River, N. Y., and D. J. Giancola, Jersey City, N. J., assignors to American Cyanamid Company, New York, N. Y. Δ7,9-androstadienes and preparing the same. 2,593,249, Apr. 15.

Besaw, George A.: *See*—
Welsh, Harold H., and Besaw.

Betex Sales Corporation, assignee: *See*—
Silver, Arnold.

Bettendorf Company, The, assignee: *See*—
Palmer, William C., and Kottmann.

Bianchi, Henry E., Elmhurst, assignor to G. Cella, Inc., New York, N. Y. Confection making apparatus. 2,592,534, Apr. 15.

Biginelli, Oreste F. A., Clermont-Ferrand, France, Vested in the Attorney General of the United States. Machine for constricting tubes. 2,592,593, Apr. 15.

Billera, Anthony, assignee: *See*—
Schwartz, Louis J.

Billera, Ignatius, assignee: *See*—
Schwartz, Louis J.

Bellinghelmer, David J., assignee: *See*—
Howard, William H.

Billingsley, George A., Jr., and W. P. Hall, assignors to Joseph Bancroft & Sons Co., Wilmington, Del. Producing dyed lustrous printed pattern effects using acid-curing resins and free leuco bases of vat dyes. 2,592,852, Apr. 15.

Birdsboro Steel Foundry and Machine Company, assignee: *See*—
Peterson, Edward T.

Birkigt, Louis, Versoix-Geneva, assignor to Society "Hispano-Suiza" (Suisse) S. A., Geneva, Switzerland. Multiple spindle spinning machine of the worm and worm wheel drive type. 2,592,853, Apr. 15.

Birr, Rudolph G., Lombard, Ill., assignor, by mesne assignments, to American Linen Supply Co., Carson City, Nev. Dispensing mechanism. 2,592,786, Apr. 15.

Bjork, David T., Evanston, Ill. Metal window construction. 2,593,093, Apr. 15.

Black, James F., Roselle, and K. K. Kearby, Cranford, N. J., assignors to Standard Oil Development Company. Hydrocarbon synthesis. 2,593,250, Apr. 15.

Black, James J., Cincinnati, Ohio, assignor, by mesne assignments, to Trailmobile Inc. Locking mechanism for vehicle doors. 2,592,647, Apr. 15.

Blanchfield, Richard F., assignee: *See*—
Richardson, Clarence.

Blaw-Knox Company, assignee: *See*—
Lavett, Charles O.

Blickle, Herman A., Highland Park, N. J. Spring jack for knitting machine needles. 2,592,787, Apr. 15.

Block, Herbert J., Chicago, Ill. Support for cooking utensils. 2,593,003, Apr. 15.

Blue, Lebert E., assignor to Transit Research Corporation, New York, N. Y. Heating and ventilating system. 2,593,094, Apr. 15.

Bodman, John W., Winchester, assignor to Lever Brothers Company, Cambridge, Mass. Dedusting soap and the resulting product. 2,592,535, Apr. 15.

Boice, Elvin G., assignor to Reed Roller Bit Company, Houston, Tex. Tool joint wear sleeve. 2,592,854, Apr. 15.

Bonacci, Louis N., Pampa, Tex., and A. Z. Hahn, Bound Brook, N. J., assignors to Research Corporation, New York, N. Y. Material collecting apparatus. 2,593,251, Apr. 15.

Bookhultz, Donald H.: *See*—
Zweifel, George E., and Bookhultz.

Booth, George E., Long Beach, Calif. Galvanic battery. 2,593,252, Apr. 15.

Booth, James H., Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio. Joint. 2,593,253, Apr. 15.

Bopp, Cecil W.: *See*—
Jirsa, Emil F., Hansen, and Bopp.

Boren, John A.: *See*—
Hoover, Orville C., and Boren.

Borg-Warner Corporation, assignee: *See*—
Burtnett, Everett R.
Kelbel, Donald W.
Rockwell, Edward A.

Bouwers, Albert: *See*—
Rinia, Herre, van Alphen, van Weenen, Leblans, and Bouwers.

Bowen, Earl M., and A. W. Johnson, assignors to The Ingersoll Milling Machine Company, Rockford, Ill. Machine tool. 2,593,254, Apr. 15.

Bowen, Edward G., Cambridge, Mass., R. W. Taylor, Malvern, F. C. Williams, and R. H. Brown, Great Malvern, and A. G. Touch, Farnborough, assignors to Minister of Supply in His Majesty's Government of Great Britain and Northern Ireland, London, England. Radio locating apparatus. 2,592,855, Apr. 15.

Bowers, John W., Wallingford, assignor to The Fibre-Metal Products Company, Chester, Pa. Combination weld cleaning and chipping tool. 2,592,648, Apr. 15.

Bowland, Charles R., and L. H. Crick, Jr., assignors to Sampsel Time Control, Inc., Spring Valley, Ill. Fire control pilot. 2,593,004, Apr. 15.

Bowman, George F., Quepos, Costa Rica. High-pressure diaphragm pump. 2,593,255, Apr. 15.

Boyer, Albert J., Kansas City, Kans. Convertible cleaning machine for automobile cooling systems and automobile parts. 2,593,256, Apr. 15.

Brackett, Newell, Bala-Cynwyd, Pa., assignor to Crane Packing Company, Chicago, Ill. Switch structure for motor-driven tools. 2,592,649, Apr. 15.

Bradley, John M., Cambridge, Mass., and H. J. Ogorzaly, Summit, N. J., assignors to Standard Oil Development Company. Blast furnace operation. 2,593,257, Apr. 15.

Brandt, Carl D.: *See*—
Dudley, John S., and Brandt.

Branson, Edward H., assignor to General Railway Signal Company, Rochester, N. Y. Wire terminal and insulating sleeve. 2,592,788, Apr. 15.

Bray, Ellis E., Cedar Hill, Tex. Fluorometer for measurement of fluorescence of uneven surfaces. 2,593,391, Apr. 15.

Brehm, Harold B., Lyndhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cavity resonator mode suppression means. 2,593,095, Apr. 15.

Breisch, Edgar W., Edgewood, and G. W. McKenna, Penn Township, Allegheny County, Pa., assignors to Westinghouse Air Brake Company. Control apparatus for telephone systems. 2,592,650, Apr. 15.

Brennan, Joseph B., Bratenahl, Ohio, assignor to E. D. McCurdy, trustee. Screen stencil. 2,592,789, Apr. 15.

Brereton, Christopher F., assignor to Vickers-Armstrongs Limited, London, England. Gun loading mechanism. 2,592,790, Apr. 15.

Breuer, Vladimir, Flushing, N. Y. Window. 2,593,258, Apr. 15.

Bridges, Jack E., Cicero, Ill., assignor to Zenith Radio Corporation. Synchronized oscillator circuit. 2,593,005, Apr. 15.

Brissey, George E., Chicago, and H. H. Young, Western Springs, assignors to Swift & Company, Chicago, Ill. Acid cleaner and detergent. 2,593,259, Apr. 15.

Brockman, Clarence E., assignee: *See*—
Scott, Ray R.

Brockman, Clarence E., Strafford, Mo. Handle means and support structure for power lawn mowers. 2,592,856, Apr. 15.

Broughton, Douglas J., assignor to Buxton, Incorporated, Springfield, Mass. Stitchless flexible pocket receptacle. 2,592,651, Apr. 15.

Brown & Bigelow, assignee: *See*—
Thull, John F.

Brown, James G.: *See*—
Levitin, Benjamin, Brown, Peeples, and M. B.

Brown, Leonard: *See*—
Lynam, John E., and Brown.

Brown, Leonard, and J. E. Lynam, Mapperley, assignors to William Cotton Limited, Leicestershire, England. Straight bar knitting machine for production of run-resistant knitted fabric. 2,593,006, Apr. 15.

Brown, Robert H.: *See*—
Bowen, Edward G., Taylor, Williams, Brown, and Touch.

Brown, William E., Pewaukee, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Cooling system for electron tubes and other devices. 2,593,260, Apr. 15.

Brunson Instrument Company, Inc., assignee: *See*—
Moore, William D.

Brusdal, Olaf, Scotia, N. Y., assignor to General Electric Company. Nozzle. 2,593,096, Apr. 15.

Brush Development Company, The, assignee: *See*—
Jaffe, Hans.

Bryan, Charles B.: *See*—
Ostermann, Hans J., Wilkens, and Bryan.

Bryant Chucking Grinder Company, assignee *See*—
Durland, Philip C.

Buchanan, William H., Writtle, assignor to Cinema-Television Limited, London, England. Cathode-ray tube. 2,593,261, Apr. 15.

Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Compensating brake cam follower. 2,592,536, Apr. 15.

Budd Company, The, assignee: *See*—
Dean, Albert G.
Greenshields, Robert O.
Lyon, John C.

Budlane, Stanley J., and R. Dusek, Chicago, assignors to Dulane, Inc., River Grove, Ill. Electric deep fat frier. 2,593,392, Apr. 15.

Buhrendorf, Frederick G., Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic transducer head. 2,592,652, Apr. 15.

Burgess, Robert W., Bridgeport, C. G. Baehr, West Haven, and J. Connors, Hamden, assignors to The Greist Manufacturing Company, New Haven, Conn. Sewing machine attachment. 2,592,653, Apr. 15.

Burt, Janet T.: *See*—
Burt, William E., J. T., and Ligett.

Burt, William E. and J. T., Pleasant Ridge, and W. B. Ligett, Berkley, Mich., assignors to Ethyl Corporation, New York, N. Y. Zirconium oxide-silicon oxide silver catalyst support and process using the same. 2,593,097, Apr. 15.

Burt, William E., Pleasant Ridge, Mich., assignor to Ethyl Corporation, New York, N. Y. Organic peroxides as promoters for silver oxidation catalysts and process using the same. 2,593,098, Apr. 15.

Burtnett, Everett R., Inglewood, Calif., assignor to Borg-Warner Corporation, Chicago, Ill. Power-transmitting system. 2,592,537, Apr. 15.

Burtnett, Everett R., Inglewood, Calif., assignor to Borg-Warner Corporation, Chicago, Ill. Power-transmitting mechanism. 2,592,538, Apr. 15.

Butler, Joseph E., Montgomery County, Md., assignor of 40 per cent to R. N. Price and 40 per cent to J. S. Howe, Washington, D. C. Receptacle. 2,593,384, Apr. 15.

Buxton, Incorporated, assignee: *See*—
Broughton, Douglas J.

C-8 Laboratories, assignee: *See*—
Caruso, Mario.

Cadwell, Clarence J., Carpinteria, and F. M. Adamson, Los Angeles, Calif. Slide feeding mechanism for still picture projection machines. 2,593,007, Apr. 15.

Cahill, John J., Bronx, assignor to Mutual Machine Company, New York, N. Y. Resilient roller for lamp shade binding machines. 2,592,539, Apr. 15.

Calabrese, John, Weston, W. Va. Hernia support. 2,593,262, Apr. 15.

California Research Corporation, assignee: *See*—
Felter, Richard H.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Magnesium oxide-barium oxide silver catalyst support and process using the same. 2,593,099, Apr. 15.

Calingaert, George, Geneva, assignor to Ethyl Corporation, New York, N. Y. Silver catalyst supported on a $MgO\text{-}Al_2O_3$ spinel. 2,593,100, Apr. 15.

Callaway, Lester R.: *See*—
Beck, Lester E., and Callaway.

Calpat Corporation, The, assignee: *See*—
Heim, Jacob G.

Campbell, William S., Astoria, N. Y. Multiple valve for condenser tube blowers. 2,593,101, Apr. 15.

Canfield, Edgar E.: *See*—
Canfield, Richard D. and E. E.

Canfield, Richard D. and E. E., Albertville, Ala. Electrical pest destroyer. 2,592,654, Apr. 15.

Carborundum Company, The, assignee: *See*—
Robie, Norman P.
Cargill, Sylvester H., assignee: *See*—
Close, Winston A.

Carlson, Ora E., assignee: *See*—
Kogl, Frank.

Carlson, Walter H., assignee: *See*—
Kogl, Frank.

Carlston, Earl F., Arlington, Va., and L. R. Whiting, Woodbridge, N. J., assignors to the United States of America as represented by the Secretary of the Navy. Protective coating. 2,592,655, Apr. 15.

Carter, William L., Tulsa, Okla. Drapery control unit. 2,593,263, Apr. 15.

Caruso, Mario, Maplewood, assignor to C-8 Laboratories, Newark, N. J. Vending machine. 2,593,102, Apr. 15.

Casler, Roger H., Washington, Conn., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio. Fluid pressure control mechanism. 2,593,103, Apr. 15.

Cassil, Carroll C., and J. Yaffe, Berkeley, assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Stabilized tetraethylpyrophosphate insecticidal dust. 2,592,540, Apr. 15.

Catranis, John G., Syracuse, N. Y. Piston and valve assembly for hydraulic control devices. 2,592,656, Apr. 15.

Cee-Kleer Products, Inc., assignee: *See*—
Baird, Philip.

Celanese Corporation of America, assignee: *See*—
Groombridge, Walter H., and Hunter.
Wickson, Edward J., and Paist.

Cella, G., Inc., assignee: *See*—
Bianchi, Henry E.

Cerf, Robert C., Jr., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif. Doorknob spindle releasing means. 2,593,264, Apr. 15.

Chadwick, Earl L., Portland, Oreg. Power agitated parts cleaning machine. 2,592,857, Apr. 15.

Chain Belt Company, assignee: *See*—
Lindow, Rudolph F.
Strehlow, Robert W., Olson, and Kaap.

Champion De Arment Tool Company, assignee: *See*—
Manning, Howard H.

Champion Paper and Fibre Company, The, assignee: *See*—
Ilmer, Paul R.
Stoddard, William B., Jr.

Chance, A. B., Company, assignee: *See*—
Hubbard, David C.

Chapman, Kenneth T.: *See*—
Dickenson, Haydn G., Chapman, and Hopf.

Chappell, Fred L., Jr., Kalamazoo, Mich., assignor to Hercules Powder Company, Wilmington, Del. Foamed gypsum composition. 2,593,008, Apr. 15.

Chase, Donald C., Milford, and J. M. Joyner, Winsted, assignors to Farrel-Birmingham Company, Incorporated, Ansonia, Conn. Apparatus for treating plastic materials. 2,593,265, Apr. 15.

Chatillon, John, & Sons, assignee: *See*—
Schrader, William L.

Chauveau, Louis, Paris, France. Apparatus for selecting signals of a particular frequency. 2,593,266, Apr. 15.

Cheatum, Leo G.: *See*—
McClellan, Marcus E., and Cheatum.

Chicago Pneumatic Tool Company, assignee: *See*—
Fischer, Howard R.

Chiksan Company, assignee: *See*—
Jackson, Donald M.

Childress, Olven W., Jr.: *See*—
Foust, Floyd J., Childress, Crim, and Thompson.

Chrisman, Joseph: *See*—
Graham, William R., Jr., and Chrisman.

Church, James M., Tenafly, E. W. Johnson, Mountainside, and H. E. Ramsden, Metuchen, N. J., assignors to Metal & Thermit Corporation, New York, N. Y. Organotin compounds and compositions containing the same. 2,593,267, Apr. 15.

Cierley, Jack O., Seattle, Wash. Device for slicing dough. 2,592,657, Apr. 15.

Cinema-Television Limited, assignee: *See*—
Buchanan, William H.

Cities Service Oil Company, assignee: *See*—
Malm, Ignace L.

Clark, Alfred, and F. E. Condon, Bartlesville, Okla., assignors to Phillips Petroleum Company. Condensing lower alcohols to higher alcohols. 2,593,009, Apr. 15.

Clark, Genevieve, assignee: *See*—
Kogl, Frank.

Clark, Harry F., Oakwood, assignor to General Motors Corporation, Dayton, Ohio. Single-phase motor control. 2,593,268, Apr. 15.

Clark, Minnie M., assignee: *See*—
Kogl, Frank.

Clarkson, Ralph E., Hamden, assignor to Olin Industries, Inc., New Haven, Conn. Serrated carrier latch for firearms. 2,592,858, Apr. 15.

Clarostat Mfg. Co. Inc., assignee: *See*—
Mucher, George J.

Clarvoe, George W., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Asbestos roofing felt and manufacture. 2,593,010, Apr. 15.

Cleary, Thomas F., Jr., New Brunswick, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Sulfathiazole preparation. 2,592,859, Apr. 15.

Cleary, Thomas F., Jr., New Brunswick, N. J., assignor to E. R. Squibb & Sons, New York, N. Y. Preparing sulfathiazole. 2,592,860, Apr. 15.

Cleveland Steel Products Corporation, assignee: *See*—
Smith, William J., Jr.

Clifford, Harry W., East Orange, and R. MacDonald, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Test fixture for vacuum tube sockets. 2,593,269, Apr. 15.

Clifton, Robert P.: *See*—
Weiss, Erwin A., Frailing, and Clifton.

Clifton, Wayne L., assignor of forty-five percent to W. H. Pate, Jr., and ten percent to J. W. Cox, Sumter, S. C. Article of furniture. 2,593,270, Apr. 15.

Close, Winston A., assignor to S. H. Cargill, Minneapolis, Minn. Door sealing structure. 2,592,861, Apr. 15.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Tubing clamp having opposite identical jaws. 2,592,791, Apr. 15.

Cockrell, Blanche L., Seat Pleasant, Md. Article of furniture. 2,593,271, Apr. 15.

Cohen, Frank A., Brooklyn, N. Y. Brassière. 2,592,792, Apr. 15.

Cohon, Benjamin J., Paterson, N. J. Lamp shade having shade material secured to frame by means of stiff but flexible strips. 2,593,272, Apr. 15.

Colangelo, Willie, Raton, N. Mex. Window construction. 2,593,104, Apr. 15.

Coleman Company, Inc., The, assignee: *See*—
Coleman, William C.

Coleman, William C., assignor to The Coleman Company, Inc., Wichita, Kans. Nonflooding underfloor airheating furnace with auxiliary exterior air inlet. 2,592,862, Apr. 15.

Collier, Robert T., assignee: *See*—
Knoy, Marion F.

Colombo, Roberto, Turin, Italy. Extrusion head for molding synthetic resins. 2,592,638, Apr. 15.

Colson Corporation, The, assignee: *See*—
Roe, William C., and Nightingale.

Columbia-Southern Chemical Corporation, assignee: *See*—
Hurd, Charles D.
Towle, Warren L.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Jackson, George P.

Compagnie Generale de Construction de Locomotives (Batignolles-Chatillon), assignee: *See*—
Le Lan, Armand M.

Compton, Frank A., Jr., Erie, Pa., assignor to General Electric Company. Rotor for dynamoelectric machines. 2,593,105, Apr. 15.

Compton, Jesse D.: *See*—
Coppock, Kenneth E., and Compton.

Condon, Francis E.: *See*—
Clark, Alfred, and Condon.

Cone, Charles N., Portland, Oreg., assignor to United States Plywood Corporation, New York, N. Y. Chromium-cellulose ether modified phenolic adhesives. 2,592,659, Apr. 15.

Conley Frog and Switch Co., assignee: *See*—
Summerhays, William A.

Conner, Jack S., Los Angeles, Calif. Water heater. 2,592,863, Apr. 15.

Connolly, John E.: *See*—
Skillman, Newton, Jr., and Connolly.

Connors, John: *See*—
Burgess, Robert W., Baehr, and Connors.

Consolidated Machine Tool Corporation, assignee: *See*—
Forward, Worthy J. F., and Roberts.

Continental Foundry and Machine Company, assignee: *See*—
Schlieder, Harold A.

Cook, A. D., Incorporated, assignee: *See*—
Dunn, Fenmore E.

Coon, Harold R., Sr.: *See*—
Rapp, Earl J., and Coon.

Coon, Harold R., Sr., and E. J. Rapp, assignors to Lynch Package Machinery Corporation, Toledo, Ohio. Wrapping machine for butter and the like. 2,592,793, Apr. 15.

Coote, Jack H., and K. M. Hornsby, assignors to Dufay-Chromex Limited, London, England. Color photography. 2,592,864, Apr. 15.

Copeman Laboratories, assignee: *See*—
Copeman, Lloyd G.

Copeman, Lloyd G., Metamora, assignor to Copeman Laboratories, Flint, Mich. Spill guard and ice tray. 2,593,106, Apr. 15.

Coppock, Kenneth E., Pleasant Ridge, and J. D. Compton, Grosse Pointe Park, assignors to General Motors Corporation, Detroit, Mich. Folding top for convertibles having an automatic seal at the rear quarter. 2,593,107, Apr. 15.

Corey, Norris W., Manchester, N. H. Tape cutter. 2,592,865, Apr. 15.

Cotsworth, Albert, III, Oak Park, Ill., assignor to Zenith Radio Corporation. Keyed automatic gain control. 2,593,011, Apr. 15.

Cotton, Arthur F. R., Merrick, N. Y. Leather finishing. 2,593,108, Apr. 15.

Cotton, William, Limited, assignee: *See*—
Brown, Leonard, and Lynam.
Lynam, John E., and Brown.

Coultas, Wilbur J., Moline, Ill., and R. L. Dort, Davenport, Iowa, assignors to Deere & Company, Moline, Ill. Implement draft connection. 2,592,866, Apr. 15.

Cousy, Edwin V.: *See*—
Williams, Everard M., and Cousy.

Cox, J. William, assignee: *See*—
Clifton, Wayne L.

Craft, Clifford J., 3rd., Philadelphia, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cold cathode gaseous discharge device. 2,593,109, Apr. 15.

Crane, Charles S., and R. A. Dove, Porterville, Calif. Nose tattooing device for cattle. 2,593,110, Apr. 15.

Crane Co., assignee: *See*—
Glauque, Charles A.

Crane Packing Company, assignee: *See*—
Brackett, Newell.
Payne, Frank E.

Crawford, James V., and R. W. Jensen, assignors to The Garrett Corporation, Los Angeles, Calif. Anchor. 2,593,111, Apr. 15.

Crick, Linville H., Jr.: *See*—
Bowland, Charles R., and Crick.

Crim, Dwight O.: *See*—
Foust, Floyd J., Childress, Crim, and Thompson.

Crompton & Knowles Loom Works, assignee: *See*—
Whitin, Herbert A.

Crosland, Edward M., Culcheth, near Warrington, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England. Baking oven. 2,593,273, Apr. 15.

Cross, James M., Belvidere, N. J., and C. R. Enyeart, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Emulsifying agents. 2,593,112, Apr. 15.

Croston, Edward L., Dash Point, assignor to American Manufacturing Company, Inc., Tacoma, Wash. Press loading mechanism. 2,593,012, Apr. 15.

Crumley, Harold W., Johnson City, Tenn. Plunger type cam actuated switch. 2,592,660, Apr. 15.

Cuq, Pierre, Firminy, France. Device for cold shaping hollow articles. 2,592,867, Apr. 15.

Curtis, George W., Wauwatosa, Wis. Self-cleaning endless track. 2,592,541, Apr. 15.

Curtis, George W., Wauwatosa, Wis. Endless track. 2,592,542, Apr. 15.

Cushman, Clifford E., Burbank, assignor to Sturgess, Inc., Glendale, Calif. Cable tension indicator. 2,592,868, Apr. 15.

Cutler, Cassius C., Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Regenerative frequency shifting and pulse shaping circuit. 2,593,113, Apr. 15.

Cutler-Hammer, Inc., assignee: *See*—
Bacon, Warren, and Hansen.
Brown, William E.
Elliot, William H.

Daisy Manufacturing Company, assignee: *See*—
Wells, William S.

Dandurand, Paul, Montreal, Quebec, Canada. Hubcap. 2,593,274, Apr. 15.

Daněk, Otto, and J. Nosek, Pardubice-Rybitví, assignors to Vychodoceske Chemicke Zavody, narodni podnik, Pardubice, Czechoslovakia. Preparation of aromatic mercury halides. 2,593,114, Apr. 15.

Danielson, Vernon S., Dolton, assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,592,661, Apr. 15.

Danly, James C., River Forest, assignor to Danly Machine Specialties, Inc., Chicago, Ill. Continuous oiling system for presses. 2,593,115, Apr. 15.

Danly Machine Specialties, Inc., assignee: *See*—
Danly, James C.
Danly, Philo H., and Georgeff.

Danly, Philo H., Hinsdale, and V. Georgeff, assignors to Danly Machine Specialties, Inc., Chicago, Ill. Power press flywheel bearing lubricating system. 2,593,116, Apr. 15.

Dan River Mills, Incorporated, assignee: *See*—
Patterson, Carrel L.
Williamson, Ollie L.

Dath, George E., Mokena, and A. G. Peterson, assignors to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism for railway cars. 2,592,662, Apr. 15.

Dath, George E., Mokena, and A. G. Peterson, assignors to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism for railway car draft riggings. 2,592,663, Apr. 15.

Dauber, Joseph, assignor to Acme Scientific Company, Chicago, Ill. Optical angle measuring apparatus. 2,592,543, Apr. 15.

Daugherty, George W., Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Spraying and dusting machine. 2,593,275, Apr. 15.

Daul, George C., and J. D. Reid, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture. Pentaerythrityl phosphoric acid esters of cellulose and making the same. 2,592,544, Apr. 15.

Davenport, Philip E., San Leandro, Calif. Target control device. 2,593,117, Apr. 15.

Davidson Corporation, assignee: *See*—
Davidson, William W.

Davidson, William W., Evanston, Ill., assignor, by mesne assignments, to Davidson Corporation. Apparatus for printing newspapers and the like. 2,593,118, Apr. 15.

Davis, Allan C., Baltimore, Md. Defective crate detector and ejector. 2,593,119, Apr. 15.

Dayton, Charles F., assignee: *See*—
Lindgren, Edward C.

Dean, Albert G., Narberth, assignor to The Budd Company, Philadelphia, Pa. Cover panels for vehicles, especially railway cars. 2,592,545, Apr. 15.

Dedman, Eber J., Shreveport, La. Egg crate lid. 2,592,869, Apr. 15.

Deere & Company, assignee: *See*—
Coultas, Wilbur J., and Dort.
White, Charles H.

Deere Manufacturing Co., assignee: *See*—
Jirsa, Emil F., Hansen, and Bopp.
McClellan, Marcus E., and Cheatum.

De Flores, Luis, United States Navy, and D. K. Morrison, Arlington, Va. Electrical instruction board. 2,592,552, Apr. 15.

De Groote, Melvin, St. Louis, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del. Oxyalkylated derivatives of certain allyl polymers. 2,593,276, Apr. 15.

Delekto, Andrew W., Auburn, Maine. Ball cock reseating tool. 2,593,013, Apr. 15.

De Mello, Alfred C., New Bedford, Mass. Fishing tackle. 2,592,664, Apr. 15.

Denison Engineering Company, The, assignee: *See*—
Renick, Wendell E.

Dennison, Brook J.: *See*—
Raymond, Richard F., and Dennison.

Detroit Lubricator Company, assignee: *See*—
Landon, Walter S.

Deutsch, Joseph, Youngstown, and E. Simon, Girard, Ohio. Inner and outer combined bifurcated garment. 2,592,665, Apr. 15.

Devis, Earl L., and C. E. Unkefer, assignors to The Timken Roller Bearing Company, Canton, Ohio. Collet chuck. 2,592,794, Apr. 15.

Devoe & Raynolds Company, Inc., assignee: *See*—
Greenlee, Sylvan O.

Diamond Alkali Company, assignee: *See*—
Perrin, Tom S.

Dicke, Robert H., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Wave guide transmission system. 2,593,120, Apr. 15.

Dickenson, Haydn G., Appleton, Warrington, K. T. Chapman, Pinner, and P. P. Hopf, assignors to Ward, Blenkinsop & Company Limited, London, England. Production of compositions containing finely divided metallic silver. 2,592,870, Apr. 15.

Digate, James S., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill. Foot measuring device. 2,593,385, Apr. 15.

Dillon, W. C., & Company, Inc., assignee: *See*—
Dillon, William C.

Dillon, William C., West Chicago, assignor to W. C. Dillon & Company, Inc., Chicago, Ill. Weighing scale. 2,592,795, Apr. 15.

Dirkman, Alfred E., deceased, Waban, Mass.; A. M. Dirkman, executrix. Photoengraving. 2,592,546, Apr. 15.

Dirkman, Agnes M., executrix: *See*—
Dirkman, Alfred E.

Dirks, Daisy, executrix: *See*—
Dirks, Delmur H.

Dirks, Delmur H., deceased, Clarkston, Wash.; D. Dirks, executrix. Folding scaffold. 2,593,386, Apr. 15.

Divoll, Richard L., Maywood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Altitude control system. 2,593,014, Apr. 15.

Djorup, Phyllis I., Yonkers, N. Y. Medical examination drape. 2,593,121, Apr. 15.

Dodge, Howard M., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Ventilator window frame. 2,593,387, Apr. 15.

Doherty, Edward T., assignor to A. F. O'Connor, Chicago, Ill. Load bracing means. 2,592,666, Apr. 15.

Dole, Chester E., Vallejo, Calif. Gate latch. 2,592,871, Apr. 15.

Dole Valve Company, The, assignee: *See*—
Kraft, El Roy J.

Donnan, Robert A., Worcester, assignor to Surprenant Mfg. Co., Boston, Mass. Machine for striping electric conductors. 2,592,667, Apr. 15.

Dooley, Roy E.: *See*—
Utterback, Ernest, Hagerbaumer, and Dooley.

Dort, Russell L.: *See*—
Coultas, Wilbur J., and Dort.

Douglas, Philip F., Carman, Manitoba, Canada. Seat structure for school desks. 2,592,872, Apr. 15.

Doussain, Robert, Villeurbanne, France. Elastic coupling and torque measuring device. 2,592,796, Apr. 15.

Dove, Robert A.: *See*—
Crane, Charles S., and Dove.

Dow Chemical Company, The, assignee: *See*—
Tolkmith, Henry.
Young, Arthur E., Stilbert, and Lalk.

Dow Corning Corporation, assignee: *See*—
Goodwin, John T., Jr.

Dracco Corp., assignee: *See*—
Kramer, John F.

Dreher, George M., Pittsburgh, Pa. Combustion boat and shield. 2,593,015, Apr. 15.

Dresser Equipment Company, assignee: *See*—
Coberly, Clarence J.

Dressler, Albert, Jr., and A. E. Fowler, Elmira, N. Y. Sanitary smoking pipe. 2,593,016, Apr. 15.

Driskill, Dallas B., San Francisco, Calif. Apparatus for landing rockets and rocket ships. 2,592,873, Apr. 15.

Drissner, Alfred E., assignor to The National Acme Company, Cleveland, Ohio. Single spindle chucking machine. 2,593,277, Apr. 15.

Droeger, Carl C., Greenfield, E. J. Meloy and W. C. Roggie, assignors to Baker-Roos, Inc., Indianapolis, Ind. Scaffold. 2,593,122, Apr. 15.

Dudley, John S., Douglas, and C. D. Brandt, assignors to Whitin Machine Works, Whitinsville, Mass. Comber. 2,593,017, Apr. 15.

Dufay-Chromex Limited, assignee: *See*—
Coote, Jack H., and Hornsby.

Dufour, Leon, Geneva, Switzerland. Locking mechanism for a differential. 2,592,668, Apr. 15.

Dukas, James K., Edwardsville, Pa. Ash-conveying means. 2,593,123, Apr. 15.

Dulane, Inc., assignee: *See*—
Budlane, Stanley J., and Dusek.

Dunlop Rubber Company Limited, assignee: *See*—
Trevaskis, Henry W.

Dunn, Fenmore E., assignor to A. D. Cook, Incorporated, Lawrenceburg, Ind. Deep-well pump. 2,592,547, Apr. 15.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Kralovec, Robert D., and Huffman.
Ludlow, John L.
Taylor, Robert S.

Du Pont, William J., Toledo, Ohio. Lubricating nozzle. 2,592,874, Apr. 15.

Durland, Philip C., assignor to Bryant Chucking Grinder Company, Springfield, Vt. Method and machine for shaping lobed forms. 2,592,875, Apr. 15.

Dusek, Robert: *See*—
Budlane, Stanley J., and Dusek.

Dyer, Obie V., Tulare, Calif. Dancing doll. 2,592,669 Apr. 15.

Earle, Clarence E., and F. P. Somers, Washington, D. C. Rotor and stator for fluid handling machines having surfaces coated with gold. 2,592,876, Apr. 15.

Earnhardt, Cornelius F., assignor to Earnhardt Electric Service, Inc., Spartanburg, S. C. Adjustable motor mount for carding machines. 2,592,670, Apr. 15.

Earnhardt Electric Service, Inc., assignee: *See*—
Earnhardt, Cornelius F.

Eastman Kodak Company, assignee: *See*—
Baxter, James G.
Weisler, Leonard.

Eaton, Gerald, Manchester, assignor to The Taylor & Fenn Co., Hartford, Conn. Wedge facing machine. 2,593,124, Apr. 15.

Eaton, Samuel E., Lexington, and C. G. Harford, Quincy, assignors to Arthur D. Little, Inc., Cambridge, Mass. Coagulating asbestos. 2,593,125, Apr. 15.

Edge, Alfred J.: *See*—
Edge, Walter S. and A. J.

Edge, Walter S., Kansas City, Mo., and A. J. Edge, Jacksonville, Fla. Wire fabric structural member. 2,592,548, Apr. 15.

Edmondson, William H.: *See*—
Richardson, Ralph R., and Edmondson.

Edwards, George W., Mitry le Neuf, assignor to Société Anonyme Française pour la Séparation, l'Emulsion et le Mélange (procédés S. E. M.), Paris, France. Centrifuge for separating a liquid from solid material. 2,593,278, Apr. 15.

Ehlinger, Marcel: *See*—
Mercier, Ernest, and Ehlinger.

Ekstrand, Sture O., Bethlehem, and V. L. Ronci, Zionsville, Pa., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Anode structure for electron discharge devices. 2,592,549, Apr. 15.

Ekstrom-Carlson & Co., assignee: *See*—
Mann, Theodore C.

Electric Wheel Company, assignee: *See*—
Richey, Clarence B.

Elgin, Joseph C., Princeton, N. J., assignor to U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y. Reclaiming rubber. 2,593,279, Apr. 15.

Ellington, Marless O., Lake City, Ark. Drilling gauge. 2,592,877, Apr. 15.

Elliott, William H., Whitefish Bay, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Phase-shift circuit. 2,593,280, Apr. 15.

Elox Corporation of Michigan, assignee: *See*—
Harding, Henry V.

El-Said, Mohamed A. H., Giza, Egypt. Vacuum-tube mixer and circuits therefor. 2,593,281, Apr. 15.

Empire Box Corporation, assignee: *See*—
Ferraro, Joseph V.

Engel, Edward W., E. J. Giolito and J. A. McGarry, New Brunswick, V. N. Morris, Highland Park, and C. L. Weidner, Cranbury, N. J., assignors to Industrial Tape Corporation. Flexible pressure-sensitive adhesive products. 2,592,550, Apr. 15.

Engler, Max, assignor to The General Tire & Rubber Company, Akron, Ohio. Apparatus for mixing rubber and the like. 2,593,282, Apr. 15.

Enso-Gutzeit Osakeyhtiö, assignee: *See*—
Norta, Turma, and Sivola.

Enyeart, Charles R.: *See*—
Cross, James M., and Enyeart.

Erickson, C. E., Company, Inc., assignee: *See*—
Erickson, Ernest R.

Erickson, Ernest R., assignor to C. E. Erickson Company, Inc., Des Moines, Iowa. Delivery case. 2,592,797, Apr. 15.

Erlebach, Harry D., Sr., Ontario, Oreg. Weeder. 2,593,283, Apr. 15.

Esposito, Ralph J., New Orleans, La. Fishing reel seat. 2,592,878, Apr. 15.

Esten, Edwin C., Lima, Ohio. Auxiliary mailbox flag. 2,592,671, Apr. 15.

Estok, Paul A., Lakewood, assignor to The Lamson & Sessions Company, Cleveland, Ohio. Manufacture of pipe plugs or the like. 2,593,126, Apr. 15.

Ethyl Corporation, assignee: *See*—
Burt, William E.
Burt, William E. and J. T., and Ligett.
Calingaert, George.
Lamb, Frances W.

Ewell, Andrew T., assignor to D. P. Gavan, Atlanta, Ga. Belting. 2,593,284, Apr. 15.

Eyerly, Lee U., Salem, Oreg. Safety device for amusement rides. 2,592,879, Apr. 15.

Failmezger, Eugene A., assignor to U. S. Hoffman Machinery Corporation, Syracuse, N. Y. Filter. 2,592,528, Apr. 15.

Falls Stamping and Welding Company, The, assignee: *See*—
Thompson, Frank R., and Bell.

Farrel-Birmingham Company, Incorporated, assignee: *See*—
Chase, Donald C., and Joyner.

Faximile, Inc., assignee: *See*—
Hester, Frank A.

Fay, Charles H., Houston, Tex., and M. Stephenson, Maracaibo, Venezuela, assignors to Shell Development Company, San Francisco, Calif. Oil well flowmeter. 2,593,285, Apr. 15.

Fedders-Quigan Corporation, assignee: *See*—
Przyborowski, Stanislaus.

Fedorchak, William J., Granite City, Ill., assignor to Owens-Illinois Glass Company. Electronic inspection of glass containers. 2,593,127, Apr. 15.

Felter, Richard H., Oakland, assignor to California Research Corporation, San Francisco, Calif. Sulfuric acid recovery. 2,593,128, Apr. 15.

Fendrock, John J., Simpson, Pa. Antiskid chain coupling. 2,593,018, Apr. 15.

Fenger, Nicholas, assignor to The Aro Equipment Corporation, Bryan, Ohio. Hydraulic control valve. 2,592,798, Apr. 15.

Fermanian, Armen, Rutherford, G. W. Soderman, West Englewood, and W. J. Workman, North Arlington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Punching and applying apparatus. 2,593,286, Apr. 15.

Ferraro, Joseph V., New York, N. Y., assignor to Empire Box Corporation, Garfield, N. J. Machine for erecting collapsed cartons. 2,592,880, Apr. 15.

Feurer Bros., Inc., assignee: *See*—
Feurer, Robert.

Feurer, Robert, Jackson Heights, assignor to Feurer Bros., Inc., New York, N. Y. Dustproof watch crown. 2,592,881, Apr. 15.

Fibre-Metal Products Company, The, assignee: *See*—
Bowers, John W.

Fiorentini, Alfredo, Nice, France. Arrangement for holding removable dental prothesis apparatus in the mouth. 2,593,287, Apr. 15.

Fischer, Carl W., assignor of The Powers Regulator Company, Chicago, Ill. Control mechanism. 2,593,129. Apr. 15.

Fischer, Howard R., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Automatic dimpling machine. 2,592,672, Apr. 15.

Fisher, Charles J., Wescosville, Pa. Impact tool with resilient striking surface. 2,592,883, Apr. 15.

Fisher, John T., Mansfield, Ohio. Mechanical interlocking mechanism for switches. 2,593,288, Apr. 15.

Fisher, Kenneth W., and H. Heltzer, assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Reflex light reflector. 2,592,882, Apr. 15.

Fisk, Charles F.: *See*—
Lewis, Arthur P., and Fisk.

Fitzsimmons, Edna M., executrix: *See*—
Short, Brooks H., and Fitzsimmons.

Fitzsimmons, John T.: *See*—
Short, Brooks H., and Fitzsimmons.

Fitzwater, David W., Pontiac, Mich. Floating cultivator. 2,593,289, Apr. 15.

Flarity, Warren H., Washington, D. C. Switching system for high-power radio-frequency energy. 2,592,551, Apr. 15.

Flynn, Alfred A., Cleveland Heights, assignor to Mueller Electric Company, Cleveland, Ohio. Clamp support for standoff insulators. 2,593,130, Apr. 15.

Flynn, Richard L., assignee: *See*—
Kogl, Frank.

Flynn, Ruby S. M., assignee: *See*—
Kogl, Frank.

Foley Manufacturing Company, assignee: *See*—
Barbery, Lucille M.

Folmsbee, Clyde H., Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y. Safety valve. 2,592,673, Apr. 15.

Food Machinery and Chemical Corporation, assignee: *See*—
Cassil, Carroll C., and Yaffe.
Daugherty, George W.
Keesling, Thomas B.
Martin, James M.
Whitmore, Robert A., and Hickey.

Forsberg, George E., Worcester, assignor to Surprenant Mfg. Co., Boston, Mass. Striping machine for electric conductors and the like. 2,592,674, Apr. 15.

Forsberg, George E., Worcester, assignor to Surprenant Mfg. Co., Boston, Mass. Striping machine for strand material. 2,592,675, Apr. 15.

Forward, Worthy J. F., Rochester, and R. R. Roberts, Irondequoit, assignors to Consolidated Machine Tool Corporation, Rochester, N. Y. Variable-speed transmission. 2,592,799, Apr. 15.

Foster Wheeler Corporation, assignee: *See*—
Artsay, Nicholas C.
Sherman, Tracy H.

Foust, Floyd J., O. W. Childress, Jr., D. O. Crim, and R. A. Thompson, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Generator armature test. 2,593,131, Apr. 15.

Fowler, Arthur E.: *See*—
Dressler, Albert, Jr., and Fowler.

Fox, Gerald B., and J. M. Sherman, assignors to The Hobart Manufacturing Company, Troy, Ohio. Dishwasher. 2,592,884, Apr. 15.

Fox, Gerald B., and J. M. Sherman, assignors to The Hobart Manufacturing Company, Troy, Ohio. Method of and apparatus for washing dishes. 2,592,885, Apr. 15.

Fox, Gerald B., and J. M. Sherman, assignors to The Hobart Manufacturing Company, Troy, Ohio. Disinfectant injector for dishwashers. 2,592,886, Apr. 15.

Frailing, Le Roy H.: *See*—
Weiss, Erwin A., Frailing, and Clifton.

Frankenburg, Walter G., Millersville, Pa., and P. W. Garbo, Freeport, assignors to General Cigar Co., Inc., New York, N. Y. Tobacco products and processes therefor. 2,592,553, Apr. 15.

Frankenburg, Walter G., Millersville, Pa., assignor to General Cigar Co., Inc., New York, N. Y. Resilient tobacco product and making the same. 2,592,554, Apr. 15.

Franklin, Cecile, assignee: *See*—
Franklin, Leon H.

Franklin, Leon H., assignor to C. Franklin, Chicago, Ill. Sand urn. 2,592,676, Apr. 15.

Fredrickson, Oscar E., Moose Pass, Territory of Alaska. Animal trap. 2,592,677, Apr. 15.

Freese, Charles E.: *See*—
Jewell, Raymond L., and Freese.

Frenger, Gunnar, Roa, V. Aker, Norway. Hot-water heating system. 2,592,887, Apr. 15.

Friedman, Bernard S.: *See*—
Sanford, Robert A., and Friedman.

Friedrich, Robert E.: *See*—
Leeds, Winthrop M., Friedrich, and Fry.

Frommelt, Horace A.: *See*—
See, Theodore S., and Frommelt.

Fry, Francis J.: *See*—
Leeds, Winthrop M., Friedrich, and Fry.

Fuerst, Edwin W., Toledo, Ohio. Display carton. 2,592,678, Apr. 15.

Gamble, Ralph M.: *See*—
Lovely, John E., and Gamble.

Gannon, Russell R., Cincinnati, Ohio. Container for desiccant material. 2,593,132, Apr. 15.

Gansert, Herman, Syracuse, N. Y. Variable pitch propeller. 2,593,290, Apr. 15.

Garbo, Paul W.: *See*—
Frankenburg, Walter G., and Garbo.

Gardner, Ira S.: *See*—
Lehane, Timothy J., and Gardner.

Gariepy, Victor, Waterloo, Quebec, Canada. Dilator for clogged teats. 2,592,800, Apr. 15.

Garik, Serge, New York, N. Y., assignor of one-third to K. J. Mysels, Los Angeles, Calif., and one-third to L. L. Salton, New York, N. Y. Adhesive tape dispenser. 2,593,291, Apr. 15.

Garrett Corporation, The, assignee: *See*—
Crawford, James V., and Jensen.

Gaugler, Richard S., assignor to General Motors Corporation, Dayton, Ohio. Washing machine. 2,593,292, Apr. 15.

Gavan, Don P., assignee: *See*—
Ewell, Andrew T.

Geary, Henry R., East Orange, N. J., assignor to General Electric Company. Air register. 2,593,133, Apr. 15.

Gedde, Erik, Chicago, Ill. Pivoted lever bottle cap remover. 2,592,679, Apr. 15.

Geerts, Marcellus J.: *See*—
Ayers, George W., Geerts, and Krewer.

Geigy, J. R., A. G., assignee: *See*—
Gysin, Hans.

General Aniline & Film Corporation, assignee: *See*—
Cross, James M., and Enyeart.

General Cigar Co., Inc., assignee: *See*—
Frankenburg, Walter G.
Frankenburg, Walter G., and Garbo.

General Controls Co., assignee: *See*—
Ray, William A.

General Electric Company, assignee: *See*—
Brusdal, Olaf.
Compton, Frank A., Jr.
Geary, Henry R.
Lundberg, John E., and Swanson.
Short, Thomas T.
Simon, Harry, and Gleason.
Harrold, Arthur E.
Rutenberg, Anatol.
Clark, Harry F.
Coppock, Kenneth E., and Compton.

General Motors Corporation, assignee: *See*—
Foust, Floyd J., Childress, Crim, and Thompson.
Gaugler, Richard S.
O'Dell, Thomas.
Short, Brooks H., and Fitzsimmons.

General Railway Signal Company, assignee: *See*—
Branson, Edward H.

General Register Corporation, assignee: *See*—
Webb, Christopher F.

General Steel Castings Corporation, assignee: *See*—
Ainsworth, Thomas H.
Jackson, Edwin C.
Krautheim, William C.
Pflager, Harry M.

General Tire and Rubber Company, The, assignee: *See*—
Dodge, Howard M.
Engler, Max.
Kelly, John H., Jr.
O'Neil, William F.

Gensmer, Theodore F., assignor to H. M. Seivert, Portland, Oreg. Door-actuated mailbox signal. 2,592,555, Apr. 15.

George, Edward B.: *See*—
Price, Hyman, and George.

Georgeff, Vasil: *See*—
Danly, Philo H., and Georgeff.

Germeshausen, Kenneth J., Newton Centre, Mass. Gaseous-discharge device. 2,592,556, Apr. 15.

Giancola, Dominic J.: *See*—
Bernstein, Seymour, and Giancola.

Giauque, Charles A., Berwyn, assignor to Crane Co., Chicago, Ill. Strainer. 2,593,293, Apr. 15.

Gibbon, Samuel Y., Jenkintown, assignor to Air-Shields, Inc., Bucks County, Pa. Apparatus for the treatment of croup and the like. 2,593,134, Apr. 15.

Gibbs, Everett H., Wadsworth, assignor to Seiberling Rubber Company, Akron, Ohio. Pneumatic tire. 2,592,557, Apr. 15.

Gilbert & Barker Manufacturing Company, assignee: *See*—
Grise, Alfred L.

Gilbert, Clyde L., Elkhart, Ind., assignor to Owens-Illinois Glass Company. Bottle carrier. 2,593,135, Apr. 15.

Giolito, Etsio J.: *See*—
Engel, Edward W., Giolito, McGarry, Morris, and Weidner.

Girdler Corporation, The, assignee: *See*—
Taylor, James D., and Haslam.

Glaser, Rudolf F., Maumee, Ohio, assignor to Owens-Illinois Glass Company. Paper container with dispensing and filling openings for liquids. 2,593,019, Apr. 15.

Gleason, Joseph P.: *See*—
Simon, Harry, and Gleason.

Gliss, George E., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Apparatus for extruding and straining compounds. 2,593,136, Apr. 15.

Globe Hoist Company, assignee: *See*—
Smith, Harry D.

Glover, Olaf E., Milford, Ill. Flywheel housing. 2,593,020, Apr. 15.

Glynn, Edwin A., assignor to Super Mold Corporation of California, Lodi, Calif. Tread centering mechanism for tire molds. 2,593,137, Apr. 15.

Goldberg, Max, assignee: *See*—
Goldberg, Robert J.

Goldberg, Robert J., assignor of fifty per cent to M. Goldberg, New York, N. Y. Centrifugal separating apparatus. 2,593,294, Apr. 15.

Gombarts, George K., New York, N. Y. Container for artists' materials. 2,593,138, Apr. 15.

Goodell, John S., Darlington, Wis. Tractor cultivator. 2,593,021, Apr. 15.

Goodman Manufacturing Company, assignee: *See*—
Beck, William R.

Goodrich, B. F., Company, The, assignee: *See*—
Antonson, John O.
Leguillon, Charles W.
Schans, George H.
Walrafen, Gerald W.

Goodwin, Chester H., Nitro, W. Va., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for removal of gases from liquids. 2,592,680, Apr. 15.

Goodwin, John T., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Silahydrocarbons and their production. 2,592,681, Apr. 15.

Goodwin, John T., Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich. Organo siloxanes and their production. 2,592,682, Apr. 15.

Gottscho, Adolph, Inc., assignee: *See*—
Gottscho, Ira S., and Kuett.

Gottscho, Ira S., Brooklyn, N. Y., and K. H. Kuett, Paramus, assignors to Adolph Gottscho, Inc., Hillside, N. J. Marking device. 2,592,558, Apr. 15.

Graham, William R., Jr., Wilmette, Ill., and J. Chrisman, assignors to American Dairies Incorporated, Kansas City, Mo., and The Quaker Oats Company, Chicago, Ill. Apparatus for charging and storing materials. 2,592,559, Apr. 15.

Granfield, Walter J., Minneapolis, Minn. Sweating torch for conduits. 2,593,295, Apr. 15.

Grant, Garnet P., Jr., Old Greenwich, Conn., assignor to Grant Photo Products, Inc., New York, N. Y. Direct positive camera adapter. 2,592,524, Apr. 15.

Grant Photo Products, Inc., assignee: *See*—
Grant, Garnet P., Jr.

Gray, Frank, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Storage device utilizing semiconductor. 2,592,683, Apr. 15.

Gray, G. A., Company, The, assignee: *See*—
Walter, John M.

Greegor, Ralph H., assignor to The Kinnear Manufacturing Co., Columbus, Ohio. Rolling door with slat therefor having windows. 2,592,888, Apr. 15.

Green, Jesse W., assignor of one-half to F. R. Wigely, Phoenix, Ariz. Beehive with ventilating ends. 2,593,296, Apr. 15.

Greenlee, Sylvan O., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky. Polyepoxide compositions. 2,592,560, Apr. 15.

Greenshields, Robert O., Detroit, Mich., assignor to The Budd Company. Plowshare manufacture. 2,593,139, Apr. 15.

Greensmith, Denis E. B.: *See*—
Shaw, Clifford, Smith, and Greensmith.

Greenwood, Ted L., Portland, Oreg. Base stand. 2,592,561, Apr. 15.

Gregoire, Jean A., Paris, France. Control device for change-speed gears. 2,593,297, Apr. 15.

Greist Manufacturing Company, The, assignee: *See*—
Burgess, Robert W., Baehr, and Connors.

Grimley, David, Kansas City, Mo. Screw and nut mechanism. 2,592,889, Apr. 15.

Grimshaw, Robert S., Detroit, Mich. Ornamental fixture. 2,592,684, Apr. 15.

Grise, Alfred L., Springfield, assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass. Air separator for liquids. 2,592,685, Apr. 15.

Grivel, Armand C., and A. H. Pilling, assignors to Richmond Screw Anchor Co., Inc., New York, N. Y. Concrete reinforcement anchorage. 2,593,022, Apr. 15.

Groombridge, Walter H., and W. Hunter, Spondon, near Derby, England, assignors to Celanese Corporation of America. Electrolytic production of fatty acids. 2,592,686, Apr. 15.

Grube, Otto R., Egg Harbor City, N. J. Broom bridle. 2,593,140, Apr. 15.

Grubman, Samuel, and S. Slansky, New York, N. Y. Cravat clasp. 2,593,298, Apr. 15.

Gruendler Crusher and Pulverizer Co., assignee: *See*—
Shelton, Harry J., Jr.

Grumbles, Irvin, San Saba, Tex. Portable irrigating apparatus. 2,593,299, Apr. 15.

Gulton Mfg. Corp., assignee: *See*—
Howatt, Glenn N.

Gysin, Hans, assignor to J. R. Geigy A. G., Basel, Switzerland. Agents for combating pests and a method for killing pests. 2,592,890, Apr. 15.

Haase, Merlin R., Berlin, Wis. Bale loader. 2,593,023, Apr. 15.

Hachmuth, Karl H., Bartlesville, Okla., assignor to Phillips Petroleum Company. Multistage crystallization process. 2,593,300, Apr. 15.

Hagen, Glenn E.: *See*—
Williams, Charles R., and Hagen.

Hagerbaumer, William A.: *See*—
Utterback, Ernest, Hagerbaumer, and Dooley.

Hagner, Frederick H., San Antonio, Tex. Visual celestial navigation instrument. 2,593,141, Apr. 15.

Hahn, Alfred Z.: *See*—
Bonacci, Louis N., and Hahn.

Haley, Hugh D., Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del. Metallic bucket liner. 2,592,562, Apr. 15.

Halfpap, Paul A., and E. P. McDermott, Fort Dodge, Iowa. Fishing pole holder. 2,592,688, Apr. 15.

Hall, Floyd C.: *See*—
Hall, Tilden F. and F. C.

Hall, Harvey H., Denver, Colo. Electrically actuated closure operator. 2,592,891, Apr. 15.

Hall, James E., Mount Vernon, and E. A. Heiss, Bothell, Wash., assignors to Wallace & Tiernan Products, Inc., Belleville, N. J. Stabilization of color in fruit. 2,592,563, Apr. 15.

Hall, Tilden F. and F. C., Denver, Colo. Vehicle attached parking device. 2,593,024, Apr. 15.

Hall, William P.: *See*—
Billingsley, George A., Jr., and Hall.

Halmrast, Anna C., executrix: *See*—
Halmrast, Carl L.

Halmrast, Carl L., deceased, Vancouver, British Columbia, Canada, A. C. Halmrast, executrix of said C. L. Halmrast. Sterilizing apparatus. 2,592,687, Apr. 15.

Hamilton Art Metal Corporation, assignee: *See*—
Wedemeyer, Eric.

Handel, Emanuel, Woodhaven, N. Y. Forming markings in tubular braided covers for vacuum cleaner tubes. 2,592,892, Apr. 15.

Hanington, Charles A., Freeport, N. Y. Adhesive bandage material. 2,592,801, Apr. 15.

Hann, Arthur B., Parma, Idaho. Electrically controlled plant chopping machine. 2,592,689, Apr. 15.

Hansen, Harvey G., San Lorenzo, Calif. Suspension means for drive axles. 2,592,893, Apr. 15.

Hansen, Kenneth H.: *See*—
Bacon, Warren, and Hansen.

Hansen, Merlin: *See*—
Jirsa, Emil F., Hansen, and Bopp.

Hanson, Albert L.: *See*—
Hanson, Charles A. and A. L.

Hanson, Charles A. and A. L., Munising, Mich. Snowplow shoe. 2,593,025, Apr. 15.

Hanze, Arthur R.: *See*—
Marlatt, Paul E., Hanze, McIntosh, and Levin.

Harbaugh, Watson D., assignee: *See*—
Johnson, Paul M., and Hinrichs.

Harding, Henry V., Royal Oak, assignor, by mesne assignments, to Elox Corporation of Michigan, Clawson, Mich. Disintegrating or removing metallic material. 2,592,894, Apr. 15.

Hardman, Harley F., Wickliffe, assignor to The Standard Oil Company, Cleveland, Ohio. Asphalt cutback containing an aliphatic phosphoric acid ester. 2,592,564, Apr. 15.

Harford, Charles G.: *See*—
Eaton, Samuel E., and Harford.

Harper, Philip S., assignor to Harper-Wyman Company, Chicago, Ill. Ash tray. 2,593,142, Apr. 15.

Harper-Wyman Company, assignee: *See*—
Harper, Philip S.

Harris, Clark E., Spokane, Wash. Tree holder. 2,592,895, Apr. 15.

Harris, Homer H., Elmont, N. Y. Bracelet connector. 2,592,690, Apr. 15.

Harris-Seybold Company, assignee: *See*—
Pritchard, Howard A.

Harrold, Arthur E., Wyken Coventry, assignor to The General Electric Company Limited, London, England. Electrical inductor. 2,592,802, Apr. 15.

Harry, William R.: *See*—
Van Ryan, Anthony, and Harry.

Hart, George T., Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Avoiding effect of moisture during high-frequency dielectric heating. 2,592,691, Apr. 15.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Rinia, Herre, van Alphen, van Weenen, Leblans, and Bouwers.
Schrage, Bote, Wijsman, and van den Steenhoven.
Van Alphen, Pieter M.
Vervest, Wilhelmus L., and van Gelder.

Harvel Research Corporation, assignee: *See*—
Harvey, Mortimer T.

Harvey, Mortimer T., South Orange, N. J., assignor to Harvel Research Corporation. Animal feed. 2,592,565, Apr. 15.

Haslam, John H.: *See*—
Taylor, James D., and Haslam.

Hattenbach, Maurice E., Chicago, Ill. Novelty container. 2,592,692, Apr. 15.

Havasi, Emil A., Cuba, N. Y., assignor to Acme Electric Corporation. Thermal cutout switch. 2,593,301, Apr. 15.

Hawkins, General A., Dallas, Tex. Sectional cane or walking stick. 2,593,026, Apr. 15.

Hawkins, Leonard L., Greenville, S. C. Weft yarn ensnaring apparatus for automatic looms. 2,593,302, Apr. 15.

Hayes, Stanley A., Pasadena, Calif. Eductor device. 2,592,896, Apr. 15.

Hayms, Raymond F., assignor of one-half to J. T. Pieper, Cincinnati, Ohio. Etching apparatus. 2,592,693, Apr. 15.

Hazeltine Research, Inc., assignee: *See*—
Rado, John A.

Heidbrink, Jay A., Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y. Metabolism apparatus for measuring oxygen consumption during respiration. 2,592,694, Apr. 15.

Heim Company, The, assignee: *See*—
Heim, Lewis R.

Heim, Jacob G., San Gabriel, assignor to The Calpat Corporation, Los Angeles, Calif. Release and adjusting means for vise-type wrenches. 2,592,803, Apr. 15.

Heim, Lewis R., assignor to The Heim Company, Fairfield, Conn. Sweepstick. 2,592,566, Apr. 15.

Heino, Ilmari, Ferndale, Mich. Fish lure. 2,593,027, Apr. 15.

Heinoo, Lauri, Arvida, Quebec, Canada. Game recorder. 2,592,897, Apr. 15.

Heiss, Edward A.: *See*—
Hall, James E., and Heiss.

Helberg, Wilbur, McClure, Ohio. Mail carrier. 2,592,898, Apr. 15.

Heltzer, Harry: *See*—
Fisher, Kenneth W., and Heltzer.

Hemphill Company, assignee: *See*—
Smith, Norman H.

Henderson, James P., La Grange Park, assignor to McAlear Manufacturing Company, Chicago, Ill. Pressure responsive measuring apparatus. 2,592,569, Apr. 15.

Hendrick, Wallace H., Cameron, N. C. Tractor cultivator. 2,593,028, Apr. 15.

Hendrick, Walter T. S., assignor to J. Lyons & Company Limited, London, England. Display carton and box. 2,593,143, Apr. 15.

Hercik, Lad L., Lakewood, Ohio. Alligator shear blade mounting. 2,593,144, Apr. 15.

Hercules Powder Company, assignee: *See*—
Chappell, Fred L., Jr.

Hermas Machine Company, The, assignee: *See*—
Rotherham, Walter S.

Hervey, Laurence R. B.: *See*—
Stott, Louis L., and Hervey.

Hess, Walter R.: *See*—
Jensen, Lloyd B., and Hess.

Hester, Frank A., assignor to Faximile, Inc., New York, N. Y. Facsimile recorder. 2,592,567, Apr. 15.

Hickey, Frank D.: *See*—
Whitmore, Robert A., and Hickey.

Hicks, Russell S., executor: *See*—
Julius, Awdry F. and G. A.

Hill, Harold S., Lockport, N. Y. Method and apparatus for pretreating liquid fuel. 2,592,568, Apr. 15.

Hindmarch, Thomas, London, England. Friction and positive clutch. 2,592,695, Apr. 15.

Hinrichs, Lansing M.: *See*—
Johnson, Paul M., and Hinrichs.

Hobart Manufacturing Company, The, assignee: *See*—
Fox, Gerald B., and Sherman.

Hockery, John C., trustee, assignee: *See*—
McLean, Robert E.

Hoe, R., & Co., Inc., assignee: *See*—
Huck, William F.

Hofstetter, Robert, Alexandria, Va. Staple extractor. 2,592,570, Apr. 15.

Hoggatt, Andrew C., Raymond, Wash. Boat construction. 2,592,697, Apr. 15.

Holdredge, Harley, Valley Center, Calif. Combined brooder and runs. 2,593,029, Apr. 15.

Holl, James W. F., Los Angeles, Calif. Wheel balancing machine. 2,592,804, Apr. 15.

Hollymade Hardware Manufacturing Company, assignee: *See*—
Cerf, Robert C., Jr.

Holmgren, Ragnar W., Flint, Mich. Key case. 2,593,030, Apr. 15.

Hoody, Edward A., Dundalk, Md. Noose releasing honda. 2,592,696, Apr. 15.

Hook-Flex Company, assignee: *See*—
Markin, Louis.

Hoover, Orville C., and J. A. Boren, Greensboro, N. C. Cupola furnace. 2,593,303, Apr. 15.

Hopf, Peter P.: *See*—
Dickenson, Haydn G., Chapman, and Hopf.

Hopkins, Robert C., Alliance, Ohio. Burner equipment for rotary driers for aggregates. 2,592,899, Apr. 15.

Hornsby, Keith M.: *See*—
Coote, Jack H., and Hornsby.

Hough, Otto B., Tallahassee, Fla. Power-operated tree hack and automatic liquid sprayer. 2,592,900, Apr. 15.

Hoven, Alfred C., W. E. Nordmark, and W. S. Lindberg, assignors to American Seating Company, Grand Rapids, Mich. Retracting type theater chair. 2,593,145, Apr. 15.

Howard, Fred, assignor to Sutcliffe, Speakman & Company Limited, Leigh, England. Laminated paper containing activated carbon. 2,593,146, Apr. 15.

Howard, William H., Wilmington, assignor of one-half to D. J. Billingheimer, Homewood, Ill. Hive tool. 2,593,304, Apr. 15.

Howatt, Glenn N., assignor to Gulton Mfg. Corp., Metuchen, N. J. Loud-speaker. 2,593,031, Apr. 15.

Howe, Jerald S., assignee: *See*—
Butler, Joseph E.

Hubbard, Charles L., Detroit, Mich. Boxing game. 2,593,147, Apr. 15.

Hubbard, David C., assignor to A. B. Chance Company, Centralia, Mo. Insulator supporting pin and cob. 2,592,698, Apr. 15.

Huck, Alfred J., assignor to Knapp-Monarch Company, St. Louis, Mo. Secondary temperature control for electric blankets. 2,592,525, Apr. 15.

Huck, William F., Forest Hills, assignor to R. Hoe & Co., Inc., New York, N. Y. Sheet registering mechanism for printing. 2,593,148, Apr. 15.

Huffman, Robert L.: *See*—
Kralovec, Robert D., and Huffman.

Hunter, Gerald G., assignor to Baldwin Rubber Company, Pontiac, Mich. Weather strip. 2,593,305, Apr. 15.

Hunter, William: *See*—
Groombridge, Walter H., and Hunter.

Huntington, Charles M., United States Navy, Los Angeles, Calif. Roll material dispenser. 2,592,571, Apr. 15.

Hurd, Charles D., Evanston, Ill., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa. Ethylidene bis-(allyl adipate) and other acylals. 2,592,901, Apr. 15.

Hurst, Mowatt M., San Francisco, Calif. Drier. 2,592,902, Apr. 15.

Hutchinson, Harry H., Higher Crumpsall, Manchester, England. Protecting windows against superficial damage. 2,592,805, Apr. 15.

Infland, Frederick C., Blissfield, Mich. Envelope opener. 2,592,699, Apr. 15.

Illner, Paul R., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Apparatus for embossing paper. 2,593,149, Apr. 15.

Imperial Chemical Industries Limited, assignee: *See*—
Seed, Leslie.

Industrial Equipment & Supply Co., assignee: *See*—
Littman, Daniel.

Industrial Tape Corporation, assignee: *See*—
Engel, Edward W., Giolito, McGarry, Morris, and Weldner.

Infilco Incorporated, assignee: *See*—
Kahn, James M.

Ingersoll Milling Machine Company, The, assignee: *See*—
Bowen, Earl M., and Johnson.

International Business Machines Corporation, assignee: *See*—
Watson, Jeannette K.

International Handkerchief Manufacturing Company, The, assignee: *See*—
Anderson, Gustave A., and Kane.

Israel, Grace K., assignee: *See*—
Kayser, Allan J.

Iwatsu, Takeo: *See*—
Matsukawa, Taizo, and Iwatsu.

Jackson, Donald M., Fullerton, assignor to Chiksan Company, Brea, Calif. Hydraulic agitator. 2,592,904, Apr. 15.

Jackson, Edwin C., Clayton, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,592,700, Apr. 15.

Jackson, George P., Flushing, N. Y., assignor to Combustion Engineering-Superheater, Inc. Burning and disposal of furnace fly ash. 2,592,701, Apr. 15.

Jackson, Nolan C., Wichita, Kans. Clamp structure for garment finishing machines or the like. 2,592,903, Apr. 15.

Jacobs, Simon J., Philadelphia, Pa. Apparatus for setting thermostatic controls. 2,592,905, Apr. 15.

Jacobsen, Edwin, Altadena, Calif. Safety razor. 2,593,306, Apr. 15.

Jacobsen, Edwin, Altadena, Calif. Safety razor. 2,593,307, Apr. 15.

Jaffe, Hans, Cleveland Heights, assignor to the Brush Development Company, Cleveland, Ohio. Transducing device having an electro-mechanically responsive dielectric element. 2,592,703, Apr. 15.

James Manufacturing Company, assignee: *See*—
Petraske, Harry O.

Jardon, Frits W., assignor to American Optical Company, Southbridge, Mass. Artificial eye and making same. 2,593,150, Apr. 15.

Jarrett, George T.: *See*—
Serednicky, Paul, and Jarrett.

Jeffery, Raymond L., Los Angeles, Calif. Collapsible tube closure. 2,592,806, Apr. 15.

Jeffrey Manufacturing Company, The, assignee: *See*—
Lee, Arthur L.
Steinmetz, Walter C.

Jennings, Malbon H., Yonkers, N. Y. Apparatus for recording and reproducing electrical communication currents. 2,592,572, Apr. 15.

Jensen, Lloyd B., Chicago, and W. R. Hess, Downers Grove, Ill., assignors, by mesne assignments, to Swift & Company. Treating liquid egg material. 2,593,308, Apr. 15.

Jensen, Raymond W.: *See*—
Crawford, James V., and Jensen.

Jerome, Arthur L., Edgewood, L. V. Lewis, Pittsburgh, and F. T. Pascoe, Carnegie, Pa., assignors to Westinghouse Air Brake Company. Centralized traffic control system of the code type for the control of interlocked track switches and railway signals. 2,592,704, Apr. 15.

Jewell, Raymond L., and C. E. Freese, assignors to American Steriliser Company, Erie, Pa. Steriliser. 2,592,705, Apr. 15.

Jirsa, Emil F., M. Hansen, and C. W. Bopp, Waterloo, Iowa, assignors to Deere Manufacturing Co. Speed control valve for hydraulic mechanism. 2,592,906, Apr. 15.

Johansen, Erling: *See*—
Magnussen, Herman A., and Johansen.

Johns-Manville Corporation, assignee: *See*—
Clarvoe, George W.

Johnson, Arthur W.: *See*—
Bowen, Earl M., and Johnson.

Johnson, Carl J., assignee: *See*—
Tincher, Chester A.

Johnson, Clarence, Orfordville, Wis., assignor to Bailey Meter Company. Machine tool control. 2,593,310, Apr. 15.

Johnson, Ernest W.: *See*—
Church, James M., Johnson, and Ramsden.

Johnson, Frank E., assignee: *See*—
Tincher, Chester A.

Johnson, Frederick C., Michigan City, Ind. Retaining means for electrical outlet boxes. 2,593,033, Apr. 15.

Johnson, Frederick O., Birmingham, Mich. Dispensing machine. 2,593,151, Apr. 15.

Johnson Gage Company, The, assignee: *See*—
Johnson, Paul W.

Johnson, Jesse C., Oakland, Calif. Vertical flue downdraft boiler. 2,593,032, Apr. 15.

Johnson, Leonard W., and H. W. Pottle, Amesbury, Mass., assignors to The Bailey Company, Inc. Panel crating structure. 2,593,152, Apr. 15.

Johnson, Paul M., Evanston, and L. M. Hinrichs, Wilmette, assignors to W. D. Harbaugh, Evanston, Ill. Apparatus for detecting the presence of foreign bodies in transparent containers. 2,593,311, Apr. 15.

Johnson, Paul W., assignor to The Johnson Gage Company, Bloomfield, Conn. Snap-ring gauge having pivoted jaws. 2,593,309, Apr. 15.

Joncas, Alex B., Detroit, Mich. Automatic crash curtain for motor vehicles. 2,592,573, Apr. 15.

Jones, Harold T., Vallejo, Calif. Locking wrench and plier. 2,592,807, Apr. 15.

Jones & Lamson Machine Company, assignee: *See*—
Lovely, John E., and Gamble.

Joor, William E., Jr., Washington, D. C. Storage tank. 2,593,153, Apr. 15.

Joseph, Jay W., Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y. Lid support. 2,593,312, Apr. 15.

Joy Manufacturing Company, assignee: *See*— Vanderzee, Harry H.

Joyner, John M.: *See*— Chase, Donald C., and Joyner.

Judelson, David N., Parkridge, N. J. Machine for cutting webs of material into strips. 2,593,154, Apr. 15.

Julius, Awdry F., Sydney, New South Wales, and G. A. Julius, deceased, Sydney, New South Wales, Australia, by E. D. O. Julius, Killara, near Sydney, New South Wales, and A. F. Julius and R. S. Hicks, executors, assignors to Automatic Totalisators Limited, Sydney, New South Wales, Australia. Type ribbon feed device for race totalizator ticket issuers. 2,592,706, Apr. 15.

Julius, Eva D. O., executrix: *See*— Julius, Awdry F. and G. A.

Julius, George A.: *See*— Julius, Awdry F. and G. A.

Jupiter Steam Appliances, Inc., assignee: *See*— Kupka, John J.

K. N. H. Corporation, assignee: *See*— Nemir, Clarence T.

Kaap, Lawrence E.: *See*— Strehlow, Robert W., Olson, and Kaap.

Kafka, Nicholas, Bellwood, Ill., assignor to Zenith Radio Corporation. Supporting structure for electron discharge devices. 2,593,034, Apr. 15.

Kahn, James M., Glencoe, assignor to Infilco Incorporated, Chicago, Ill. Cooking liquor treatment. 2,592,907, Apr. 15.

Kaiser, Edward W., Chicago, Ill. Pipe joint fitting. 2,592,574, Apr. 15.

Kamm, Clarence W., and C. W. Sisco, assignors to Surface Combustion Corporation, Toledo, Ohio. Apparatus for detecting water vapor in gases. 2,593,313, Apr. 15.

Kane, Charles I.: *See*— Anderson, Gustave A., and Kane.

Karbowski, Victor S., Lima, Peru. Drill. 2,593,035, Apr. 15.

Karen Products, Inc., assignee: *See*— Abercrombie, Charles W.

Katz, Harry, St. Paul, Minn. Quick-operating float valve. 2,592,908, Apr. 15.

Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Pressure applying and release mechanism for wringers. 2,592,575, Apr. 15.

Kayser, Allan J., assignor of fifty per cent to M. L. Kurland, forty per cent to G. K. Israel, and ten per cent to R. L. Kayser, Denver, Colo. Sealing fluid lubricant in the hub of a rotating element. 2,592,645, Apr. 15.

Kayser, Rosalind L., assignee: *See*— Kayser, Allan J.

Kearby, Kenneth K.: *See*— Black, James F., and Kearby.

Keesling, Thomas B., Campbell, Calif., assignor to Food Machinery and Chemical Corporation. Container feed mechanism. 2,592,909, Apr. 15.

Kelbel, Donald W., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch control. 2,592,576, Apr. 15.

Kelderman, Harold L., Oskaloosa, Iowa. Vehicle wheel and mounting means therefor. 2,592,707, Apr. 15.

Keller, Rex E., Beverly Hills, Calif. Power transmission mechanism. 2,592,910, Apr. 15.

Kelly, John H., Jr., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio. Making cellular rubber using amines. 2,592,708, Apr. 15.

Ketelsen, Peter, Wichita, Kans. Gas burner and sectional hearth. 2,592,911, Apr. 15.

Kiebert, Martin V., Jr.: *See*— Reynolds, Foster N., Jr., Zechtser, and Kiebert.

Kimberlin, Charles N., Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Producing magnesia. 2,593,314, Apr. 15.

Kimbro, Rushton O.: *See*— Spurgeon, Samuel J., and Kimbro.

King-Seeley Corporation, assignee: *See*— Sivacek, Emil E.

Kinnaird, William R., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Mixing and homogenizing apparatus. 2,592,709, Apr. 15.

Kinnear Manufacturing Co., The, assignee: *See*— Greegor, Ralph H.

Kinzer, John P., Ridgefield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cavity resonator. 2,593,155, Apr. 15.

Kirby, James B., West Richfield, Ohio. Sweeper type vacuum cleaner having automatic nozzle adjustment. 2,592,710, Apr. 15.

Klopfer, Charles E.: *See*— Vale, Jalva, and Klopfer.

Knapp-Monarch Company, assignee: *See*— Huck, Alfred J. Knapp, Robert S. Scharf, Frank W.

Knapp, Robert S., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Valve structure. 2,592,808, Apr. 15.

Knaust, Henry: *See*— Knaust, Herman and Henry.

Knaust, Herman and Henry, Saugerties, N. Y. Fermentation process. 2,592,711, Apr. 15.

Knerem, Elmer, Cleveland, Ohio. Load releasing device. 2,592,577, Apr. 15.

Knipper, Edward J., Bakersfield, Calif. Combination footstool, ladder, seat, and storage chest. 2,592,912, Apr. 15.

Knoy, Marion F., Long Beach, assignor to R. T. Collier, Wilmington, Calif. Portable refrigerator. 2,592,712, Apr. 15.

Koch, Edward G., Bayou Goula, La. Sugar cane juice clarifier. 2,593,036, Apr. 15.

Koch, Otto L., Woodlynne, N. J., and P. Nix, Philadelphia, Pa. Practice target for putting. 2,592,713, Apr. 15.

Kogl, Frank, St. Paul, assignor of two and one-half per cent to W. H. Carlson, two and one-half per cent to O. E. Carlson, West St. Paul, four per cent to M. M. Clark, four per cent to G. Clark, South St. Paul, Minn., and ten per cent to R. L. and R. S. M. Flynn, Superior, Wis. Concrete step form. 2,592,578, Apr. 15.

Koppers Company, Inc., assignee: *See*— Nickels, Joseph E.

Kottmann, Arthur A.: *See*— Palmer, William C., and Kottmann.

Kraft, El Roy J., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Flow control device. 2,593,315, Apr. 15.

Kraft, El Roy J., Oak Park, assignor to The Dole Valve Company, Chicago, Ill. Reciprocating pump assembly. 2,593,316, Apr. 15.

Kralovec, Robert D., and R. L. Huffman, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of nitrogenous fertilizer compositions. 2,592,809, Apr. 15.

Kramer, John F., assignor, by mesne assignments, to Dracco Corp., Cleveland, Ohio. Awning. 2,592,579, Apr. 15.

Krautheim, William C., Normandy, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck. 2,592,714, Apr. 15.

Krehbiel, Benjamin F., assignee: *See*— Thomas, Joseph G.

Krewer, William A.: *See*— Ayers, George W., Geerts, and Krewer.

Kuett, Kenneth H.: *See*— Gottscho, Ira S., and Kuett.

Kupka, John J., Gladstone, N. J., assignor to Jupiter Steam Appliances, Inc., New York, N. Y. Valve chest insert for pressure fluid operated reciprocating engines. 2,593,037, Apr. 15.

Kurland, Maurice L., assignee: *See*— Kayser, Allan J.

Kushner, Joseph B., Brooklyn, N. Y. Electrolytically processing metallic articles. 2,592,810, Apr. 15.

Lalk, Robert H.: *See*— Young, Arthur E., Stilbert, and Lalk.

Lamb, Frances W., Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y. Ethylene oxidation and silver on magnetitive as catalyst therefor. 2,593,156, Apr. 15.

Lamson & Sessions Company, The, assignee: *See*— Estok, Paul A.

Landon, Marion E., administratrix: *See*— Landon, Walter S.

Landon, Walter S., deceased, Detroit, Mich.: by M. E. Landon, administratrix, assignor to Detroit Lubricator Company, Detroit, Mich. Liquid level control means. 2,592,913, Apr. 15.

Lansing, Edward S.: *See*— Ottersland, Peter N., Rigabar, and Lansing.

La Salle Steel Company, assignee: *See*— See, Theodore S., and Frommelt.

Lavett, Charles O., Buffalo, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa. Apparatus for removing the product film from a revolving drum surface. 2,592,914, Apr. 15.

Lay, Harvey T., assignor to Western Metalcraft, Inc., Olympia, Wash. Right angle mounting cabinet front unit. 2,593,317, Apr. 15.

Lebensfeld, Harry, assignor to United Industrial Syndicate, Inc., New York, N. Y. Ball-bearing assembly. 2,592,811, Apr. 15.

Leblans, Leopold M. L. J.: *See*— Rinia, Herre, van Alphen, van Weenen, Leblans, and Bouwers.

Lee, Arthur L., Upper Arlington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company. Chair and idler roll stand assembly for conveyers. 2,592,915, Apr. 15.

Leeds, Winthrop M., and R. E. Friedrich, Pittsburgh, Pa., and F. J. Fry, Champaign, Ill., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Circuit interrupter. 2,592,635, Apr. 15.

Leguillon, Charles W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Self-laying track for vehicles. 2,592,916, Apr. 15.

Lehane, Timothy J., North Riverside, and I. S. Gardner, New Lennox, assignors to Vapor Heating Corporation, Chicago, Ill. Air reheat control for heating system. 2,593,038, Apr. 15.

Lehmann, Helmuth A., New York, N. Y. Photo and phototransparency enlarging device. 2,593,318, Apr. 15.

Le Lan, Armand M., assignor to the Compagnie Generale de Construction de Locomotives (Batignolles-Chatillon), Paris, France. Device for imparting predetermined cyclic displacements to a machine-tool member and the like. 2,592,812, Apr. 15.

Lesinsky, Adam P., Whiting, Ind. Bow frog with improved hair clamping means. 2,592,715, Apr. 15.

Lever Brothers Company, assignee: *See*— Bodman, John W.

Levin, Robert H.: *See*— Marlatt, Paul E., Hanze, McIntosh, and Levin.

Levitin, Benjamin, J. G. Brown, I. W. and M. B. Peeples, Washington, D. C. Foldable furniture unit. 2,593,319, Apr. 15.

Lewis, Arthur P., Fairhaven, Mass., and C. F. Fisk, Clifton, N. J., assignors to United States Rubber Company, New York, N. Y. Apparatus for heat-treating nylon yarn or cord. 2,593,320, Apr. 15.

Lewis, Lloyd V.: *See*— Jerome, Arthur L., Lewis, and Pascoe.

Lewis, Willard D., Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Self-correcting amplifier. 2,592,716, Apr. 15.

Ligett, Waldo B.: *See*— Burt, William E., J. T., and Ligett.

Lindberg, William S.: *See*— Hoven, Alfred C., Nordmark, and Lindberg.

Lindgren, Edward C., Maple Park, assignor of one-half to C. F. Dayton, De Kalb, Ill. Swimming appliance. 2,593,321, Apr. 15.

Lindow, Rudolph F., Wauwatosa, assignor to Chain Belt Company, Milwaukee, Wis. Carriage and bucket for inclinable booms. 2,593,322, Apr. 15.

Link, Edwin A.: *See*— Nelson, Rolland D., and Link.

Lipe-Rollway Corporation, assignee: *See*— Serednicky, Paul, and Jarrett.

Little, Arthur D., Inc., assignee: *See*— Eaton, Samuel E., and Harford.

Littman, Daniel, assignor to Industrial Equipment & Supply Co., Reading, Pa. Tape splitting machine. 2,593,388, Apr. 15.

Livers, Carlos B., North Hollywood, and A. A. Meddock, Van Nuys, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Valve for sequential operation of hydraulic motors. 2,593,039, Apr. 15.

Lloyd, Walter, Northampshire, England. Vehicle suspension means. 2,593,040, Apr. 15.

Lockwood, Joseph F., and J. S. Ball, assignors to Henry Simon Limited, Cheadle Heat, England. Plansifter. 2,592,917, Apr. 15.

Loevenstein, Hirsch, New York, N. Y., assignor to The Nitralloy Corporation. Preparing iron oxide from ferrous chloride. 2,592,580, Apr. 15.

Lomax, Clarence E., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Automatic telephone system provided with party lines. 2,592,813, Apr. 15.

Loncich, Joseph C., Medford, assignor to The Wilson Manufacturing Company, Inc., Boston, Mass. Billfold insert. 2,592,918, Apr. 15.

Loomis Machine Company, assignee: *See*— Loomis, Martin, and Sanderson.

Loomis, Martin, Clare, and W. M. Sanderson, Midland, assignors to Loomis Machine Company, Clare, Mich. Dockboard. 2,592,919, Apr. 15.

Lorentzen Hardware Mf'g. Corp., assignee: *See*— Anderle, Joseph A. Nelson, Harry.

Lorig, Edwin T., Ross Township, Allegheny County, Pa., assignor to United States Steel Company. Method and apparatus for positioning strip. 2,592,581, Apr. 15.

Lorig, Edwin T., Pittsburgh, Pa., assignor to United States Steel Company. Apparatus for positioning strip. 2,593,157, Apr. 15.

Lorig, Edwin T., Pittsburgh, Pa., assignor to United States Steel Company. Apparatus for positioning strip. 2,593,158, Apr. 15.

Lovell Manufacturing Company, assignee: *See*— Kauffman, Walter L., II.

Lovely, John E., and R. M. Gamble, assignors to Jones & Lamson Machine Company, Springfield, Vt. Lathe. 2,592,920, Apr. 15.

Lübeck, Carl H. O., Stockholm, Sweden. Alkaline accumulator with so-called double or two cells. 2,592,921, Apr. 15.

Lucas, Joseph, Limited, assignee: *See*— Rule, John.

Lucier, James H., Northbridge, Mass. Corsage pin. 2,592,922, Apr. 15.

Ludlow, John L., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Isolation of chlorosulfonated polymers of ethylene from solution. 2,592,814, Apr. 15.

Lukes, Adolph F., Waterloo, Iowa. Cement gun. 2,592,815, Apr. 15.

Lumb, Charles F., Kingston Hill, England. Soot blower with mechanism for converting rotary motion into straight line motion succeeded by rotary motion. 2,592,923, Apr. 15.

Lundberg, John E., Swampscott, and H. G. Swanson, Belmont, Mass., assignors to General Electric Company. Torque motor for gyroscopes. 2,592,582, Apr. 15.

Lynam, John E.: *See*— Brown, Leonard, and Lynam.

Lynam, John E., Mapperly, and L. Brown, Nottingham, assignors to William Cotton Limited, Loughborough, England. Machine for the manufacture of run-resistant knitted fabric. 2,593,041, Apr. 15.

Lynch Package Machinery Corporation, assignee: *See*— Coon, Harold R., Sr., and Rapp. Rapp, Earl J., and Coon.

Lynskey, Arthur, Martins Ferry, Ohio. Golf-tee holder. 2,593,042, Apr. 15.

Lyon, George A., Detroit, Mich. Wheel structure. 2,592,584, Apr. 15.

Lyon, John C., Upper Darby, assignor to The Budd Company, Philadelphia, Pa. Berth operating means for railway sleeping cars. 2,592,924, Apr. 15.

Lyon, Waldo K., San Diego, Calif. Recording tide current meter. 2,592,583, Apr. 15.

Lyons, J., & Company Limited, assignee: *See*— Hendrick, Walter T. S.

Mabee, Ralph H., Des Moines, Iowa. Device for holding outboard motors to boats. 2,592,925, Apr. 15.

MacDonald, Robert: *See*— Clifford, Harry W., and MacDonald.

Macdonald, William R., Glen Cove, N. Y. Switch for centrifugal oil and water separators. 2,593,043, Apr. 15.

Mack, Gerry P., Jackson Heights, and E. Parker, assignors to Advance Solvents & Chemical Corporation, New York, N. Y. Halogen-containing resins stabilized with polymeric organo-tin dialkoxides. 2,592,926, Apr. 15.

MacMasters, Majel M., P. Baird, and C. E. Rist, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Corn milling test. 2,592,585, Apr. 15.

MacMillin Engineering Corporation, assignee: *See*— Waldie, George A., and MacMillin.

MacMillin, Howard F.: *See*— Waldie, George A., and MacMillin.

Madsen Iron Works, Inc., assignee: *See*— Schulze, Clarence G.

Magnussen, Herman A., and E. Johansen, Kristiansand, Norway, assignors to O. Stray, Forest Hills, N. Y. Collapsible saw frame. 2,593,323, Apr. 15.

Mallory, P. R., & Co., Inc., assignee: *See*— Aust, Robert J.

Malm, Ignace L., Tallant, assignor to Cities Service Oil Company, Bartlesville, Okla. Processing of synthetic hydrocarbons. 2,593,159, Apr. 15.

Mancini, Lory, Los Angeles, Calif. Window structure. 2,593,160, Apr. 15.

Manger, Arthur O., Philadelphia, Pa., and E. A. Tomlin, Jr., Hampton, Conn., assignors, by mesne assignments, to Rathborne, Hair & Ridgway Box Co., Chicago, Ill. Shipping crate for livestock. 2,593,161, Apr. 15.

Mankin, Arthur H.: *See*— Sunstein, David E., and Mankin.

Mankin, Arthur H., Chicago, Ill., and D. E. Sunstein, Cynwyd, assignors to Philco Corporation, Philadelphia, Pa. Grid-controlled electron tube. 2,593,044, Apr. 15.

Mann, Cecil E., Pontiac, Mich. Mason's line block. 2,592,717, Apr. 15.

Mann, Theodore C., Beloit, Wis., assignor to Ekstrom-Carlson & Co., Rockford, Ill. Conveyer chain. 2,593,324, Apr. 15.

Manning, Howard H., assignor to Champion De Arment Tool Company, Meadville, Pa. Adjustable pliers. 2,592,927, Apr. 15.

Manning, Maxwell & Moore, Inc., assignee: *See*— Ostermann, Hans J., Wilkens, and Bryan.

Mapes, Daniel, West Caldwell, assignor to Specialties Development Corporation, Bloomfield, N. J. Valve operating means. 2,592,816, Apr. 15.

Markin, Louis, assignor, by mesne assignments, to Hook-Flex Company, Chicago, Ill. Eye-stay assembly for fabric fastening. 2,593,162, Apr. 15.

Marlatt, Paul E., A. R. Hanze, A. V. McIntosh, Jr., and R. H. Levin, assignors to The Upjohn Company, Kalamazoo, Mich. Trihydroxy steroid adducts. 2,592,586, Apr. 15.

Maroshick, Max, Baltimore, Md. Fishing reel. 2,593,045, Apr. 15.

Martin, James M., Lansing, Mich., assignor to Food Machinery and Chemical Corporation, San Jose, Calif. Harvesting machine with coupling mechanism to a tractor. 2,592,928, Apr. 15.

Maschinenfabrik Scharer, assignee: *See*— Siegenthaler, Walter.

Matchett, John C., East Pasadena, Calif. Liquid level gauge. 2,592,929, Apr. 15.

Matheson, Mackay R., Leamington, Ontario, Canada. Variable-speed transmission. 2,593,163, Apr. 15.

Mathews, Ray V., Ottumwa, Iowa, assignor to Swift & Company, Chicago, Ill. Poultry packing table. 2,593,325, Apr. 15.

Matsukawa, Taizo, Suitashi, Osaka, and T. Iwatsu, Higashisumiyoshi-ku, Osaka, assignors to Takeda Yakuhin Kogyo Kabushikigaisha, Higashi-ku, Osaka-shi, Japan. Preparing vitamin B_1 and its allied compound. 2,592,930, Apr. 15.

Matsukawa, Taizo, Suitashi, Osaka, and T. Iwatsu, Higashisumiyoshi-ku, Osaka, assignors to Takeda Yakuhin Kogyo Kabushikigaisha, Higashi-ku, Osaka-shi, Japan. Thiothiazolone-derivatives. 2,592,931, Apr. 15.

McAdoo, Harold L., Bartlesville, Okla. Pliers for round work. 2,593,164, Apr. 15.
McAlear Manufacturing Company, assignee: *See*—
Henderson, James P.
McAskill, James I., Kingston, Ontario, Canada. Conditioning and granulating finely divided materials. 2,593,326, Apr. 15.
McClellan, Marcus E., and L. G. Cheatum, Ottumwa, assignors to Deere Manufacturing Co., Dubuque, Iowa. Preliminary compacting feeding mechanism for balers. 2,592,932, Apr. 15.
McCurdy, E. D., trustee, assignee: *See*—
Brennan, Joseph B.
McDermott, Eugene P.: *See*—
Halfpap, Paul A., and McDermott.
McGarry, James A.: *See*—
Engel, Edward W., Giolito, McGarry, Morris, and Weidner.
McGhee, Charles R., Gastonia, assignor to Southern Spindle & Flyer Co., Inc., Charlotte, N. C. Mounting for drawing rolls. 2,592,718, Apr. 15.
McGraw Electric Company, assignee: *See*—
Van Ryan, Anthony, and Harry.
McGuigan, William D., Waltham, assignor to Raytheon Manufacturing Company, Newton, Mass. Remote direction finder system. 2,592,719, Apr. 15.
McIlvaine, Robert L., Glencoe, assignor, by mesne assignments, to H. S. Simpson, trustee, Evanston, Ill. Sand cooling device. 2,593,327, Apr. 15.
McIntosh, A Vern, Jr.: *See*—
Marlatt, Paul E., Hanse, McIntosh, and Levin.
McKechnie, Ian C., assignor to Primeweld Corporation, Detroit, Mich. Electric coil. 2,592,817, Apr. 15.
McKee, Albert E., Chicago, Ill. Oxygen administration. 2,593,046, Apr. 15.
McKenna, George W.: *See*—
Breisch, Edgar W., and McKenna.
McLean, Robert E., Fort Benning, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Can opener. 2,592,933, Apr. 15.
McLean, Robert E., Fort Benning, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Can opener. 2,592,934, Apr. 15.
McLean, Robert E., Columbus, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Can opener. 2,592,935, Apr. 15.
McLean, Robert E., Columbus, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Can opener. 2,592,936, Apr. 15.
McLean, Robert E., Columbus, Ga., assignor to J. C. Hockery, Kansas City, Mo., as trustee. Can opener. 2,592,937, Apr. 15.
McNaught, William K., Sausalito, Calif. Jet engine with compressor driven by rotating jets which exhaust into thrust augmenting duct. 2,592,938, Apr. 15.
Meaker, John W., New York, N. Y. Perforated multiple ply bag. 2,593,328, Apr. 15.
Meddock, Alvin A.: *See*—
Livers, Carlos B., and Meddock.
Meloy, Eugene J.: *See*—
Droeger, Carl C., Meloy, and Roggie.
Ménard, Paul H.: *See*—
Sédille, Marcel H. L., and Ménard.
Mercer, Mary C., Midwest, Wyo. Ice-cream scoop. 2,592,720, Apr. 15.
Mercier, Ernest, and M. Ehlinger, Paris, France, assignors, by mesne assignments, to Moore, Inc., Atlanta, Ga. Multiple slide valve and operator therefor. 2,593,047, Apr. 15.
Merrell, Wm. S., Company, The, assignee: *See*—
Amstutz, Edward D.
Metal & Thermit Corporation, assignee: *See*—
Church, James M., Johnson, and Ramsden.
Metallising Engineering Co. Inc., assignee: *See*—
Shepard, Arthur P.
Metzger, Floyd J., New York, N. Y. Aerosol insecticide bomb. 2,593,165, Apr. 15.
Meyer, Hugo H. M., Dobbs Ferry, assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y. Oil vaporizer. 2,593,166, Apr. 15.
Miller, Arthur W., Milwaukee, Wis. Can opener. 2,593,329, Apr. 15.
Miller, Donald L., Horseheads, N. Y., assignor to Bendix Aviation Corporation. Engine starter gearing. 2,593,167, Apr. 15.
Miller, Jack M., Kansas City, Mo. Sausage linker. 2,592,939, Apr. 15.
Miner, W. H., Inc., assignee: *See*—
Danielson, Vernon S.
Dath, George E., and Peterson.
Peterson, Arnold G.
Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, assignee: *See*—
Bowen, Edward G., Taylor, Williams, Brown, and Touch.
Williams, Frederic C.
Minneapolis-Honeywell Regulator Company, assignee: *See*—
Odell, Malcolm P.
Wilson, John M.
Minnesota Mining & Manufacturing Company, assignee: *See*—
Fisher, Kenneth W., and Heltzer.
Moessinger, Albert, assignor to Sulzer Freres, Société Anonyme, Winterthur, Switzerland. Thread brake. 2,592,818, Apr. 15.
Moessinger, Albert, assignor to Sulzer Freres, Société Anonyme, Winterthur, Switzerland. Claw clutch. 2,592,819, Apr. 15.
Moessinger, Albert, assignor to Sulzer Freres, Société Anonyme, Winterthur, Switzerland. Harness control. 2,592,820, Apr. 15.
Mohr, Milton E., New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Variable frequency relaxation oscillator. 2,593,330, Apr. 15.
Monoyer, Maurice, Brussels, Belgium. Pressure transformer. 2,592,940, Apr. 15.
Monsanto Chemical Company, assignee: *See*—
Nielsen, Lawrence E.
Monyhan, Clyde W., Evansville, Ind. Hair clipper guide. 2,593,168, Apr. 15.
Mo och Domsjö Aktiebolag, Örnsköldsvik, assignee: *See*—
Samuelson, Hans O.
Moore, Inc., assignee: *See*—
Mercier, Ernest, and Ehlinger.
Moore, John H., Springfield, Pa., assignor to Baldwin-Lima-Hamilton Corporation. Fluid pressure measuring apparatus. 2,593,169, Apr. 15.
Moore, William D., assignor to Brunson Instrument Company, Inc., Kansas City, Mo. Apparatus for determining location of bubbles in tubes in level instruments. 2,592,941, Apr. 15.
Moore, William D., assignor to Brunson Instrument Co., Kansas City, Mo. Dustproof leveling screw. 2,592,942, Apr. 15.
Morrell, Jacque C.: *See*—
Thomas, Charles L., and Morrell.
Morris, Vlon N.: *See*—
Engel, Edward W., Giolito, McGarry, Morris, and Weidner.
Morrison, David K.: *See*—
De Flores, Luis, and Morrison.
Morrow, Ben W., assignee: *See*—
Tincher, Chester A.
Morse, John F., Hudson, Ohio. Control mechanism for marine engines. 2,593,170, Apr. 15.
Morse, John F., Hudson, Ohio. Adjustable light for insertion in the hull of boats. 2,593,171, Apr. 15.
Morton, Richard N., Yakima, Wash. Rotatable display sign. 2,593,331, Apr. 15.
Moto-Sway Corporation of America, assignee: *See*—
Aron, Edmund.
Mott, Edward E., Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Filter using magnetostrictive rings. 2,592,721, Apr. 15.
Mucher, George J., Rochester, assignor to Clarostat Mfg. Co. Inc., Dover, N. H. Operating control. 2,593,332, Apr. 15.
Mueller Electric Company, assignee: *See*—
Flynn, Alfred A.
Mutual Machine Company, assignee: *See*—
Cahill, John J.
Myers, Harold L., Morristown, N. J. Display container. 2,593,333, Apr. 15.
Mysels, Karol J., assignee: *See*—
Garik, Serge.
Naegeli, Werner, assignor to Actiengesellschaft Joh. Jacob R'eter & Cie, Winterthur, Switzerland. Bearing structure for spinning and twisting spindles. 2,593,334, Apr. 15.
Nagy, Daniel E., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Light stable phenolic syntans. 2,592,587, Apr. 15.
National Acme Company, The, assignee: *See*—
Drissner, Alfred E.
National Steel Corporation, assignee: *See*—
Winters, Nick.
Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Carlston, Earl F., and Whiting.
Rich, Stanley R.
Selove, Walter.
Neale, Dory J., Topeka, Kans. Lashing machine for aerial cables. 2,592,943, Apr. 15.
Neale, John S., assignor to Pennine Aircraft Limited, Manchester, England. Pitch controlling means for rotor blades of helicopters. 2,593,335, Apr. 15.
Neely, William H., assignor to The Universal Wire Spring Company, Cleveland, Ohio. Rail member for mounting sinuously corrugated wire springs. 2,592,944, Apr. 15.
Nelson, Harry, assignor to Lorentsen Hardware Mf'g. Corp., New York, N. Y. Venetian blind headbar construction. 2,593,048, Apr. 15.
Nelson, Rolland D., Hales Corners, and E. A. Link, assignors to Rural Transformer & Equipment Co., Milwaukee, Wis. Lightning protector device. 2,593,393, Apr. 15.
Nemir, Clarence T., assingor to K. N. H. Corporation, Washington, D. C. Cashew oil condensation and polymerization in the shell. 2,592,588, Apr. 15.
Neumann, Albert, Milwaukee, Wis. Oil gauge for oil drums. 2,593,172, Apr. 15.
Neveroil Products Company, assignee: *See*—
Skillman, Newton, Jr., and Connolly.

Nickels, Joseph E., assignor to Koppers Company, Inc., Pittsburgh, Pa. Production and separation of isomeric isopropylnaphthalenes. 2,592,589, Apr. 15.
Nielsen, Lawrence E., Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Recording torsion pendulum. 2,593,389, Apr. 15.
Nightingale, Robert G.: *See*—
Roe, William C., and Nightingale.
Nitralloy Corporation, The, assignee: *See*—
Loevenstein, Hirsch.
Nix, Perry: *See*—
Koch, Otto L., and Nix.
Nixon, Lawrence J., Pittsburgh, Pa. Hinged and collapsible stairway. 2,593,336, Apr. 15.
Noll, Henry J., Milwaukee, Wis. Adjustable width gate. 2,592,722, Apr. 15.
Nolte, Theodore, Iowa City, Iowa. Edger for rug weaving machines. 2,592,723, Apr. 15.
Nordmark, Walter E.: *See*—
Hoven, Alfred C., Nordmark, and Lindberg.
Norta, Turma, and Y. Sivola, Imatra, assignors to Enso-Gutzeit Osakeyhtiö, Helsinki, Finland, Refining chemical pulp. 2,593,173, Apr. 15.
North American Aviation, Inc., assignee: *See*—
Philipson, Joseph.
Northrop Aircraft, Inc., assignee: *See*—
Williams, Charles R., and Hagen.
Norton Company, assignee: *See*—
Van der Pyl, Edward.
Nosek, Jaroslav: *See*—
Daněk, Otto, and Nosek.
Oberg, Charles E., San Diego, Calif. Spring winding apparatus. 2,592,590, Apr. 15.
O'Brien, Hugh B., Beckley, W. Va. Vehicle signal. 2,593,337, Apr. 15.
O'Connor, Arthur F., assignee: *See*—
Doherty, Edward T.
Odell, Malcolm P., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Automatic starting system for internal-combustion engines. 2,592,945, Apr. 15.
O'Dell, Thomas, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich. Permanent dunnage. 2,593,174, Apr. 15.
Odell, William W., New York, N. Y. Manufacture of combustible gas. 2,592,591, Apr. 15.
Ogorsaly, Henry J.: *See*—
Bradley, John M., and Ogorsaly.
Ogorsaly, Henry J., Summit, N. J., assignor to Standard Oil Development Company. Contacting solid particles with gaseous fluids. 2,593,338, Apr. 15.
Ohmstede Machine Works, assignee: *See*—
Ohmstede, Robert L.
Ohmstede, Robert L., assignor to Ohmstede Machine Works, Beaumont, Tex. Tube cutting machine. 2,592,946, Apr. 15.
Olin Industries, Inc., assignee: *See*—
Clarkson, Ralph E.
Olson, Albert M.: *See*—
Strehlow, Robert W., Olson, and Kaap.
O'Neil, William F., assignor to The General Tire and Rubber Company, Akron, Ohio. Inner tube for pneumatic tires and making. 2,592,724, Apr. 15.
O'Neill, James L., Macedon, N. Y. Draft device for increasing the loading on tractor wheels. 2,592,592, Apr. 15.
Oram, Edward D., Burbank, Calif. Upholstery tuft fastener. 2,592,725, Apr. 15.
Oriental Glass & Novelty Company, Inc., assignee: *See*—
Adamo, Fiorentino.
Ostermann, Hans J., Westport, A. G. K. Wilkens, Shelton, and C. B. Bryan, Meriden, assignors to Manning, Maxwell & Moore, Inc., Bridgeport, Conn. Electronic displacement measuring means. 2,593,339, Apr. 15.
Ottersland, Peter N., Watertown, N. Rigabar, Carthage, and E. S. Lansing, New York, assignors to Taylor Refiner Company, Inc., Watertown, N. Y. Method of and machine for treating fibrous or cellulosic material. 2,592,594, Apr. 15.
Owens-Illinois Glass Company, assignee: *See*—
Fedorchak, William J.
Gilbert, Clyde L.
Glaser, Rudolf F.
Paul, Hubert W., and Shuman.
Rough, Robert R.
Packard, Lucius E., Concord, and H. H. Scott, Lincoln, assignors to Technology Instrument Corporation, Waltham, Mass. Electric method and system for measuring impedance magnitude and phase angle. 2,593,175, Apr. 15.
Packard Motor Car Company, assignee: *See*—
Weiss, Erwin A., Frailing, and Clifton.
Page, John S., assignor to Page Oil Tools Inc., Long Beach, Calif. Tubing packer. 2,592,947, Apr. 15.
Page Oil Tools Inc., assignee: *See*—
Page, John S.
Palst, Walter D.: *See*—
Wickson, Edward J., and Palst.
Palmer, Herald K.: *See*—
Armstrong, Daniel A., and Palmer.
Palmer, William C., and A. A. Kottmann, Davenport, assignors to The Bettendorf Company, Bettendorf, Iowa. Wrapping machine. 2,592,726, Apr. 15.
Pamer, Andrew F., San Francisco, Calif. Automatic fishhook. 2,592,727, Apr. 15.
Pan American Refining Corporation, assignee: *See*—
Ridgway, John A., Jr.
Parker, Emery: *See*—
Mack, Gerry P., and Parker.
Parrott, Robert D.: *See*—
Wise, Raleigh J., and Parrott.
Partch, John G.: *See*—
Veatch, Franklin, and Partch.
Pascoe, Frank T.: *See*—
Jerome, Arthur L., Lewis, and Pascoe.
Pate, William H., Jr., assignee: *See*—
Clifton, Wayne L.
Patterson, Carrel L., assignor to Dan River Mills, Incorporated, Danville, Va. Tension brake device. 2,592,595, Apr. 15.
Patterson, Edie J., Stockton, Calif. Tool bar mounting. 2,593,176, Apr. 15.
Patterson, Robert C., assignor to American Seating Company, Grand Rapids, Mich. Pivot mounting for kneeler rests or similarly mounted articles. 2,593,177, Apr. 15.
Paul, Carl W., New York, N. Y. Display device for fur scarves. 2,593,049, Apr. 15.
Paul, Hubert W., and E. C. Shuman, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Composite fire door. 2,593,050, Apr. 15.
Paul, Milton, Great Neck, N. Y. Washing device. 2,593,178, Apr. 15.
Payne, Frank E., Glencoe, assignor to Crane Packing Company, Chicago, Ill. Rotary mechanical seal. 2,592,728, Apr. 15.
Pearcy, Myrtle S., Sacramento, Calif. Disposable urinal with liquid trap. 2,593,051, Apr. 15.
Peeples, Irving W.: *See*—
Levitin, Benjamin, Brown, I. W. and M. B. Peeples.
Peeples, Mary B.: *See*—
Levitin, Benjamin, Brown, I. W. and M. B. Peeples.
Pelouse Manufacturing Company, assignee: *See*—
Adams, Bruce P.
Pengelly, Wilbert L., Portland, Oreg. Jet action washing machine. 2,592,596, Apr. 15.
Pengelly, Wilbert L., Portland, Oreg. Jet action washing machine. 2,592,597, Apr. 15.
Penn Controls, Inc., assignee: *See*—
Schell, Paul.
Pennell, Everett S., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Etching ethylene diamine tartrate crystals. 2,592,729, Apr. 15.
Pennine Aircraft Limited, assignee: *See*—
Neale, John S.
Perkin-Elmer Corporation, The, assignee: *See*—
Baker, James G.
Perkins, Robert C., Worcester, Mass. Gas-producing furnace and burner therefor. 2,592,730, Apr. 15.
Perrin, Tom S., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Obtaining chlorine and chromium containing materials. 2,592,598, Apr. 15.
Perry, Winthrop L., Milford, assignor, by mesne assignments, to Abbott Worsted Mills, Incorporated, Wilton, N. H. Winding machine. 2,592,599, Apr. 15.
Peterson, Arnold G.: *See*—
Dath, George E., and Peterson.
Peterson, Arnold G., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanism for railway cars. 2,592,731, Apr. 15.
Peterson, Arnold G., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorbing mechanisms for draft riggings of railway cars. 2,592,732, Apr. 15.
Peterson, Edward T., Reading, assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa. Roller leveler. 2,592,948, Apr. 15.
Petraske, Harry O., assignor to James Manufacturing Company, Fort Atkinson, Wis. Barn gutter cleaner. 2,593,340, Apr. 15.
Petrolite Corporation, Ltd., assignee: *See*—
De Groote, Melvin.
Pfager, Harry M., St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway locomotive structure. 2,592,733, Apr. 15.
Philco Corporation, assignee: *See*—
Mankin, Arthur H., and Sunstein.
Sunstein, David E., and Mankin.
Philips Laboratories, Inc., assignee: *See*—
Meyer, Hugo H., and Mettivier.
Philipson, Joseph, Los Angeles, Calif., assignor to North American Aviation, Inc. Cable seal. 2,592,949, Apr. 15.
Phillips Petroleum Company, assignee: *See*—
Bayless, Frederick B.
Clark, Alfred, and Condon.
Hachmuth, Karl H.
Piety, Raymond G., and Thomas.
Robinson, Sam P.
Wagner, Cary R.
Phil-Mar Corporation, assignee: *See*—
Secrist, Lee.
Phipps, Ray L., Hingham, Mass. Rotary hand hoe. 2,593,341, Apr. 15.
Pieper, Joseph T., assignee: *See*—
Hayms, Raymond F.
Piety, Raymond G., and M. E. Thomas, Bartlesville, Okla., assignors to Phillips Petroleum Company. Seismometer. 2,593,052, Apr. 15.

Pike, Charles B., Santa Fe, N. Mex. Container. 2,592,734, Apr. 15.

Pilling, Alan H.: *See*—
Grivel, Armand C., and Pilling.

Pirnov, Paul S., Shelburne, Mass. Photographic projection printing mechanism. 2,592,735, Apr. 15.

Pitt, Harold M.: *See*—
Bender, Harry, and Pitt.

Pittsburgh Plate Glass Company, The, assignee: *See*—
Raymond, Richard F., and Dennison.

Plant, Irma C.: *See*—
Sage, Veda M., and Plant.

Plastic Wire & Cable Corporation, The, assignee: *See*—
Wilmot, Charles H.

Polymer Corporation, The, assignee: *See*—
Stott, Louis L., and Hervey.

Porter, H. K., Inc., assignee: *See*—
Porter, Thomas M.

Porter, Thomas M., Brookline, assignor to H. K. Porter, Inc., Somerville, Mass. Coupling for jack attachments and extensions. 2,593,342, Apr. 15.

Porter, Wade, Jr., Edgewater, Colo. Bottle cap remover. 2,593,063, Apr. 15.

Pottle, Herbert W.: *See*—
Johnson, Leonard W., and Pottle.

Powell, Edward E., Conimicut, R. I. Fixture for machine tools. 2,592,821, Apr. 15.

Powers Regulator Company, The, assignee: *See*—
Fischer, Carl W.

Price, Hyman, and E. B. George, assignors to Hyman Price, Chicago, Ill. Attaching fender flaps. 2,593,179, Apr. 15.

Price, Robert N., assignee: *See*—
Butler, Joseph E.

Primeweld Corporation, assignee: *See*—
McKechnie, Ian C.

Pritchard, Howard A., Hiram, Ohio, assignor to Harris-Seybold Company. Sheet transfer device for perfecting presses. 2,593,180, Apr. 15.

Pritchard, Howard A., Hiram, assignor to Harris-Seybold Company, Cleveland, Ohio. Sheet feeder. 2,593,181, Apr. 15.

Przyborowski, Stanislaus, Kenmore, assignor to Fedders-Quigan Corporation, Buffalo, N. Y. Heat exchange core. 2,592,950, Apr. 15.

Puckett, Ralph Q., Payette, Idaho. Automatic gate. 2,592,736, Apr. 15.

Pure Oil Company, The, assignee: *See*—
Ayers, George W., Geerts, and Krewer.
Bell, Richmond T.
Savoy, Michael G.

Quackenbush, Edward C., Aurora, assignor to American Phenolic Corporation, Chicago, Ill. Monoblock connector. 2,593,182, Apr. 15.

Quaker Oats Company, The, assignee: *See*—
Graham, William R., Jr., and Chrisman.

Radio Corporation of America, assignee: *See*—
Seright, Carl G., and Baker.
Seybold, Arthur M.
Singer, Kurt.
Sziklai, George C.

Rado, John A., Nutley, N. J., assignor to Haseltine Research, Inc., Chicago, Ill. Tunable wave signal device. 2,593,183, Apr. 15.

Ramsden, Hugh E.: *See*—
Church, James M., Johnson, and Ramsden.

Randall, Earl A., North Kansas City, Mo. Igniting device. 2,592,951, Apr. 15.

Randol, Glenn T., Fort Lauderdale, Fla. Fluid-actuated servomotor control valve system. 2,592,600, Apr. 15.

Rapp, Earl J.: *See*—
Coon, Harold R., Sr., and Rapp.

Rapp, Earl J., and H. R. Coon, Sr., assignors to Lynch Package Machinery Corporation, Toledo, Ohio. Sheet feeder mechanism. 2,592,822, Apr. 15.

Rathborne, Hair & Ridgway Box Co., assignee: *See*—
Manger, Arthur O., and Tomlin.

Ray, William A., North Hollywood, assignor to General Controls Co., Glendale, Calif. Thermoelectric control system. 2,592,952, Apr. 15.

Rayburn, Vincent A., and D. C. Robson, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for conveying, dividing, and piling sheet material. 2,593,343, Apr. 15.

Raymond, Richard F., Saxonburg, and B. J. Dennison, Brackenridge, assignors to The Pittsburgh Plate Glass Company, Allegheny County, Pa. Transparent electroconductive article and producing the same. 2,592,601, Apr. 15.

Raytheon Manufacturing Company, assignee: *See*—
McGuigan, William D.
Spencer, Percy L.

Reagan, Ollie: *See*—
Reagan, Sydney C., Sr., Reagan, Wood, and Wood.

Reagan, Sydney C., Sr., and O. Reagan, Falls Church, Va., and C. E. and G. Wood, Maplewood, Mo. Scissors type cigarette holder. 2,593,054, Apr. 15.

Reed, Edwin G., Jr., Bethesda, Md. Transmission. 2,593,184, Apr. 15.

Reed Roller Bit Company, assignee: *See*—
Boice, Elvin G.

Regina Corporation, The, assignee: *See*—
Verhagen, Edward L.

Reid, John D.: *See*—
Daul, George C., and Reid.

Renick, Wendell E., Grove City, assignor to The Denison Engineering Company, Columbus, Ohio. Flow proportioning apparatus. 2,593,185, Apr. 15.

Research Corporation, assignee: *See*—
Bonacci, Louis N., and Hahn.
Wintermute, Harry A.

Reynolds, Foster N., Jr., Upper Darby, Sol Zechtzer, and M. V. Kiebert, Jr., assignors to Raymond Rosen Engineering Products, Inc., Philadelphia, Pa. Multiplex telemetric system. 2,592,737, Apr. 15.

Riccomagno, Guglielmo, Milan, Italy. Electric incandescent lamp. 2,592,823, Apr. 15.

Rich, Stanley R., Cambridge, Mass., assignor to the United States of America as represented by the Secretary of the Navy. Electronically controlled low impedance phase shifting device. 2,592,738, Apr. 15.

Richardson, Clarence, assignor of one-half to R. F. Blanchfield, Lake City, Iowa. Stake or post driver. 2,593,186, Apr. 15.

Richardson, James A., Burlingame, Calif. Anklet. 2,592,739, Apr. 15.

Richardson, Ralph R., and W. H. Edmondson, Chicago, Ill., assignors to United Biscuit Company. Doctor blade mechanism. 2,593,344, Apr. 15.

Richey, Clarence B., assignor to Electric Wheel Company, Quincy, Ill. Auto sweep rake. 2,592,824, Apr. 15.

Richmond Screw Anchor Co., Inc., assignee: *See*—
Grivel, Armand C., and Pilling.

Ridgway, John A., Jr., assignor to Pan American Refining Corporation, Texas City, Tex. Catalytic conversion with hydrofluoric acid. 2,592,740, Apr. 15.

Riechelson, Morris, Brooklyn, N. Y. Walking doll. 2,593,187, Apr. 15.

Rigabar, Napoleon: *See*—
Ottersland, Peter N., Rigabar, and Lansing.

Rikelman, Nathan, Bronx, N. Y. Novelty hat construction. 2,593,188, Apr. 15.

Rinia, Herre, P. M. van Alphen, F. L. van Weenen, L. M., L. J. Leblans, and A. Bouwers, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Optical system and film guide means for cameras, projectors, and the like. 2,593,189, Apr. 15.

Rist, Carl E.: *See*—
MacMasters, Majel M., Baird, and Rist.

Ristine, George N., Philadelphia, Pa. Fishing line spreader. 2,592,741, Apr. 15.

Roberts, John, San Francisco, Calif. High-pressure faucet type valve. 2,592,953, Apr. 15.

Roberts, Roland R.: *See*—
Forward, Worthy J. F., and Roberts.

Robertson, R. R., Company, assignee: *See*—
Sussin, Max H.

Robie, Norman P., Lewiston, assignor to The Carborundum Company, Niagara Falls, N. Y. Making flexible abrasive articles. 2,592,954, Apr. 15.

Robin, Maurice H., Cheadle, England. Box. 2,593,190, Apr. 15.

Robinson, Sam P., Bartlesville, Okla., assignor to Phillips Petroleum Company. Pebble heating chamber. 2,593,345, Apr. 15.

Robson, Duer C.: *See*—
Rayburn, Vincent A., and Robson.

Rockola, David C., assignor, by mesne assignments, to The Rock-Ola Manufacturing Corporation, Chicago, Ill. Parking meter. 2,593,191, Apr. 15.

Rock-Ola Manufacturing Corporation, The, assignee: *See*—
Rockola, David C.

Rockwell, Edward A., Cleveland, Ohio. Cylinder piston structure. 2,593,055, Apr. 15.

Rockwell, Edward A., Shaker Heights, Ohio, assignor, by assignments, to Borg-Warner Corporation, Chicago, Ill. Accessory hydraulic adjuster. 2,593,192, Apr. 15.

Rockwell, Edward A., Shaker Heights, Ohio. Sealing means. 2,593,193, Apr. 15.

Rockwell, Edward A., Cleveland, Ohio. Power pressure intensifier. 2,593,394, Apr. 15.

Roddan, Glenn H., Hammond, Ind. Toilet paper holder. 2,592,955, Apr. 15.

Roe, William G., and R. G. Nightingale, assignors to The Colson Corporation, Elyria, Ohio. Tricycle drive mechanism and frame therefor. 2,593,347, Apr. 15.

Roe, Willis E., Chicago, Ill. Saw operating mechanism. 2,593,346, Apr. 15.

Roggie, William C.: *See*—
Droeger, Carl C., Meloy and Roggie.

Rollman, Michael A., Landisville, Pa. Electric iron. 2,593,194, Apr. 15.

Ronci, Victor L.: *See*—
Ekstrand, Sture O., and Ronci.

Rose, Archie B., Merkel, Tex. Curb proximity signalling device. 2,592,742, Apr. 15.

Rosen, Raymond, Engineering Products, Inc., assignee: *See*—
Reynolds, Foster N., Jr., Zechtzer, and Kiebert.

Rosenberg, George, Forest Hills, and L. Spiselman, Brooklyn, N. Y. Picture frame with variable display areas. 2,593,195, Apr. 15.

Rotherham, Walter S., Lincoln Park, assignor to The Hermas Machine Company, Hawthorne, N. J. Railway sewing machine. 2,593,196, Apr. 15.

Rough, Robert R., Toledo, Ohio, assignor to Owens-Illinois Glass Company. Inclined melter furnace and melting glass. 2,593,197, Apr. 15.

Rule, John, assignor to Joseph Lucas Limited, Birmingham, England. Filling device for electric storage batteries. 2,592,743, Apr. 15.

Rural Transformer & Equipment Co., assignee: *See*—
Nelson, Rolland D., and Link.

Rutenberg, Anatol, Shilton, near Coventry, assignor to The General Electric Company Limited, London, England. Frequency difference indicator. 2,592,825, Apr. 15.

Rutherford, Albert D., Jr., Essex, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Backing plate for strainers. 2,593,198, Apr. 15.

Ryant, Charles J., Jr., assignor to Standard Oil Company, Chicago, Ill. Liquid level indicator. 2,592,744, Apr. 15.

Saber, Walter, Chicago, Ill. Extensible gate lock. 2,592,956, Apr. 15.

Sage, Veda M., Panama City, Fla., and I. C. Plant, Arlington Heights, Ill. Extensible bolster roll. 2,593,056, Apr. 15.

Saks, Walter R., Forest Hills, N. Y. Producing flocked articles. 2,592,602, Apr. 15.

Salg, Arnold J., Shakopee, Minn. Artificial bait. 2,593,199, Apr. 15.

Salin, Ewald, New York, N. Y. Squaring carpenter's saw. 2,592,745, Apr. 15.

Salter, George, & Co. Limited, assignee: *See*—
Bache, John K.

Salton, Lewis L., assignee: *See*—
Garik, Serge.

Sampsel Time Control, Inc., assignee: *See*—
Bowland, Charles R., and Crick.

Sampson, George O.: *See*—
Trelease, Richard D., Sampson, and Alstrand.

Samuelson, Hans O., Gothenburg, assignor to Mo och Domsjö Aktiebolag, Ornskoldsvik, Sweden. Making alkali cellulose. 2,592,746, Apr. 15.

Sand, Haakon, Zumbrota, Minn. Comb cleaning device. 2,593,200, Apr. 15.

Sanderson, George P., London, England. Current production, sales, inventory, or like indicator. 2,593,348, Apr. 15.

Sanderson, Wayne M.: *See*—
Loomis, Martin, and Sanderson.

Sanford, Robert A., Park Forest, and B. S. Friedman, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y. Re-forming naphtha stocks. 2,592,603, Apr. 15.

Sansom, Robert G., Okolona, Miss. Smoking pipe. 2,592,957, Apr. 15.

Saunders, Noel J., Toronto, Ontario, Canada. Clothespin. 2,593,201, Apr. 15.

Savoy, Michael G., assignor to The Pure Oil Company, Chicago, Ill. Inhibitors against hydrogen sulfide and brine corrosion. 2,593,057, Apr. 15.

Sax, Karl J.: *See*—
Bernstein, Seymour, and Sax.

Schans, George H., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for handling strip material from extruding machines. 2,592,958, Apr. 15.

Scharf, Frank W., Arcadia, Calif., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo. Toaster timing mechanism. 2,592,826, Apr. 15.

Schell, Paul, Elkhart, Ind., assignor to Penn Controls, Inc. Oil burner safety control system. 2,592,827, Apr. 15.

Schenk, Harry F., Sterling, Mass. Apparatus for screening a suspension of solid material in a liquid. 2,593,202, Apr. 15.

Schlack, Carl A., United States Navy, Upper Darby, Pa., and B. L. Taylor, United States Navy, Garrett Park, Md. Apparatus for intraoral photography. 2,592,604, Apr. 15.

Schlieder, Harold A., Syracuse, N. Y., assignor to Continental Foundry and Machine Company, East Chicago, Ind. Automatic recirculating control for pumps. 2,593,058, Apr. 15.

Schnurer, Carolyn, Design Studios, Ltd., assignee: *See*—
Schnurer, Carolyn G.

Schnurer, Carolyn G., assignor to Carolyn Schnurer Design Studios, Ltd., New York, N. Y. Lady's sleeveless garment. 2,593,059, Apr. 15.

Schofield, Alan L., Lowell, Mass. Obstetrical instrument. 2,592,959, Apr. 15.

Scholl Mfg. Co., Inc., The, assignee: *See*—
Digate, James S.

Schrader, William L., Philadelphia, Pa., assignor to John Chatillon & Sons, New York, N. Y. Load pointer for weighing scales. 2,593,060, Apr. 15.

Schrage, Bote, J. Wijsman and H. van den Steenhoven, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Comany, Hartford, Conn., as trustee. Flushing cistern. 2,593,01, Apr. 15.

Schulze, Clarence G., Los Angeles, Calif., assignor to Madsen Iron Works, Inc. Concrete roadway finishing machine. 2,592,960, Apr. 15.

Schumann, Hans M., Philadelphia, Pa. Latex impregnated luffa and preparing the same. 2,592,747, Apr. 15.

Schwartz, Louis J., Slatington, assignor to I. and A. Billera, Allentown, Pa. Needle cooling device for sewing machines. 2,593,203, Apr. 15.

Schwartzberg, Henry, Brookline, Mass. Sound control system. 2,593,204, Apr. 15.

Scott-Atwater Manufacturing Company, assignee: *See*—
Armstrong, Daniel A., and Palmer.

Scott, Herman H.: *See*—
Packard, Lucius E., and Scott.

Scott, Ray R., Muskogee, Okla., assignor of seventy-five per cent to C. E. Brockman, Lebanon, Mo. Adjustable safety latch. 2,592,961, Apr. 15.

Searles, Amos, Scranton, Pa. Hydraulic screening. 2,592,605, Apr. 15.

Secrist, Lee, Euclid, assignor to Phil-Mar Corporation, Cleveland, Ohio. Decorative table lamp with adjustable light deflector. 2,592,962, Apr. 15.

Seddon, Eric: *See*—
Sturgeon, Reginald, and Seddon.

Sédille, Marcel H. L., Paris, and P. H. Ménard, Eaubonne, assignors to Societe Rateau (Societe Anonyme), and R. Anxionnaz, Paris, France, jointly. Gas turbine engine associated with a gas producer under pressure. 2,592,749, Apr. 15.

Sédille, Marcel H. L., assignor to Societe Rateau (Société Anonyme), and R. Anxionnaz, Paris, France, jointly. Annular combustion chamber with hollow air guide vanes with radial gasiform fuel slots for gas turbines. 2,592,748, Apr. 15.

See, Theodore S., Hammond, Ind., and H. A. Frommelt, Milwaukee, Wis., assignors to La Salle Steel Company, Chicago, Ill. Bar miller. 2,592,606, Apr. 15.

Seed, Leslie, Northwich, England, assignor to Imperial Chemical Industries Limited. Polymerizing ethylene in aqueous emulsion. 2,592,526, Apr. 15.

Segal, Samuel, New York, N. Y. Desk pad. 2,592,828, Apr. 15.

Seiberling Rubber Company, assignee: *See*—
Gibbs, Everett H.

Seivert, H. M., assignee: *See*—
Gensmer, Theodore F.

Selove, Walter, Chicago, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Impedance meter. 2,592,750, Apr. 15.

Serednicky, Paul, North Syracuse, and G. T. Jarrett, assignors to Lipe-Rollway Corporation, Syracuse, N. Y. Inertia brake. 2,592,751, Apr. 15.

Seright, Carl G., Riverton, and H. F. Baker, Moorestown, N. J., assignors to Radio Corporation of America. Beat frequency oscillator for receivers. 2,593,349, Apr. 15.

Seybold, Arthur M., West Orange, N. J., assignor to Radio Corporation of America. Control circuit. 2,593,350, Apr. 15.

Shannon, Jack F., Euclid, Ohio, assignor to Bailey Meter Company. Rebalancing indicating instrument. 2,593,351, Apr. 15.

Shannon, Raymond E., Du Bois, Pa. Liquid level tank gauge. 2,593,062, Apr. 15.

Shaw, Clifford, W. E. Smith, and D. E. B. Greensmith, London, England; said Greensmith assignor to said Shaw and said Smith. Production of zirconium silicate refractory. 2,593,352, Apr. 15.

Shell Development Company, assignee: *See*—
Fay, Charles H., and Stephenson.
Stiles, Alan B.

Shelton, Harry J., Jr., Ladue, assignor to Gruendler Crusher and Pulveriser Co., St. Louis, Mo. Portable plural-stage crushing, screening, and washing plants. 2,593,353, Apr. 15.

Shenstone, Osborne H., Muskegon, Mich. Seal for axial air gap induction motors. 2,592,752, Apr. 15.

Shepard, Arthur P., Flushing, assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y. Wire feed gear train lubrication. 2,592,607, Apr. 15.

Sherman, John M.: *See*—
Fox, Gerald B., and Sherman.

Sherman, Tracy H., South Nyack, assignor to Foster Wheeler Corporation, New York, N. Y. Heater. 2,592,608, Apr. 15.

Sherrow, Sayle, Camden, Ohio. Lawn mower. 2,592,963, Apr. 15.

Shoemaker, Clifton B., Glendora, Calif. Magnetically controlled rotary water sprinkler. 2,592,609, Apr. 15.

Short, Brooks H., and J. T. Fitzsimmons, deceased, by E. M. Fitzsimmons, executrix, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Distributor rotor. 2,593,205, Apr. 15.

Short, Thomas T., Schenectady, N. Y., assignor to General Electric Company. Sensing device for sorting apparatus. 2,593,206, Apr. 15.

Shumaker, Grover M., Euclid, Ohio. Prefabricated folding building. 2,592,610, Apr. 15.

Shuman, Everett C.: *See*—
Paul, Hubert W., and Shuman.

Sieber, Martin E., Dayton, Ohio. Wrist cigarette or cigar lighter. 2,593,063, Apr. 15.

Siegenthaler, Walter, Erlenbach, Zurich, assignor to Maschinenfabrik Scharer, Erlenbach, Switzerland. Cop winding machine with bunch builder. 2,593,354, Apr. 15.

Sigmund, Miroslav, Gosforth, England. Water sprayer. 2,592,753, Apr. 15.

Silberman, Jacob A. C., New York, N. Y. Fastener. 2,593,064, Apr. 15.

Silver, Arnold, Englewood, assignor to Betex Sales Corporation, Paterson, N. J. Resin impregnated textile fabrics and producing same. 2,593,207, Apr. 15.

Simon, Eugene R., Petersburg, Ill. Resilient soil-working toothed wheel. 2,593,065, Apr. 15.

Simon, Eugenia: *See*—
Deutsch, Joseph, and Simon.

Simon, Harry, Baldwinsville, and J. P. Gleason, Syracuse, N. Y., assignors to General Electric Company. Delayed pulse generator. 2,592,611, Apr. 15.

Simon, Henry, Limited, assignee: *See*—
Lockwood, Joseph F., and Ball.

Simpson, Herbert S., trustee, assignee: *See*—
McIlvaine, Robert L.

Sinclair Refining Company, assignee: *See*—
Sanford, Robert A., and Friedman.
Watson, Kenneth M.

Singer, Kurt, North Hollywood, Calif., assignor to Radio Corporation of America. Regulated power supply. 2,593,066, Apr. 15.

Singer Manufacturing Company, The, assignee: *See*—
Bartoss, Frank J.
Turner, Edgar P.

Sisco, Carl W.: *See*—
Kamm, Clarence W., and Sisco.

Sivacek, Emil E., assignor to King-Seeley Corporation, Ann Arbor, Mich. Windshield wiper mechanism. 2,593,355, Apr. 15.

Sivola, Yrjö: *See*—
Norta, Turma, and Sivola.

Skillman, Newton, Jr., and J. E. Connolly, Detroit, assignors to Neveroil Products Company, Hamburg, Mich. Spring pad and cover. 2,593,208, Apr. 15.

Skinner, Ralph L., Detroit, Mich. Variable compression system for internal-combustion engines. 2,592,829, Apr. 15.

Slansky, Shirley: *See*—
Grubman, Samuel, and Slansky.

Smidth, F. L. & Co., assignee: *See*—
Ahlmann, Nikolai.

Smith, Andrew I., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Fractionation of dibasic acids. 2,592,964, Apr. 15.

Smith, Cloyd D., Pacific Palisades, assignor to Ball Renu, Inc., Los Angeles, Calif. Ball initialing machine. 2,593,212, Apr. 15.

Smith, Clyde V., Los Angeles, Calif. Multiple garment rack. 2,593,356, Apr. 15.

Smith, Frank W., Adair Village, Oreg. Computing device. 2,592,965, Apr. 15.

Smith, Harry D., Philadelphia, Pa., assignor to Globe Hoist Company, Des Moines, Iowa. Closure and closure operator for vehicle hoists. 2,593,209, Apr. 15.

Smith, Howard E., Monroe, Mich. Colostomy guard. 2,593,210, Apr. 15.

Smith, Howard E., Monroe, Mich. Colostomy container guard. 2,593,211, Apr. 15.

Smith, Norman H., Pawtucket, assignor to Hemphill Company, Central Falls, R. I. Knitting elastic fabric. 2,592,966, Apr. 15.

Smith, William E.: *See*—
Shaw, Clifford, Smith, and Greensmith.

Smith, William J., Jr., Bay Village, assignor to Cleveland Steel Products Corporation, Cleveland, Ohio. Rotary fuel feeder for flame ring burners. 2,592,612, Apr. 15.

Smits, Wytse B., Voorburg, assignor to Smitsvonk N. V., Rijswijk, Netherlands. Surface discharge spark plug. 2,592,754, Apr. 15.

Smitsvonk N. V., assignee: *See*—
Smits, Wytse B.

Snapps, Walter L., Neah Bay, Wash. Fishing sinker. 2,592,967, Apr. 15.

Sneller, James A., Cleveland, assignor to The Aro Equipment Corporation, Bryan, Ohio. Continuous flow oxygen regulator. 2,592,830, Apr. 15.

Snyder Oil Tool Corporation, assignee: *See*—
Snyder, Robert E.

Snyder, Robert E., Pasadena, assignor to Snyder Oil Tool Corporation, Los Angeles, Calif. Self-compensating accumulator. 2,592,613, Apr. 15.

Société Anonyme Française pour la Séparation, l'Emulsion et le Mélange (procédés S. E. M.), assignee: *See*—
Edwards, George W.

Societe Rateau (Societe Anonyme), assignee: *See*—
Sédille, Marcel H. L., and Menard.

Societe Rateau (Société Anonyme), assignee: *See*—
Sédille, Marcel H. L.

Society "Hispano-Suiza" (Suisse) S. A., assignee: *See*—
Birkigt, Louis.

Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Utterback, Ernest, Hagerbaumer, and Dooley.

Soderman, George W.: *See*—
Fermanian, Armen, Soderman, and Workman.

Soenksen, Edwin, De Witt, Iowa. Rotating cutter bar. 2,592,755, Apr. 15.

Somers, Francis P.: *See*—
Earle, Clarence E., and Somers.

Sotecom S. A., assignee: *See*—
Violet, Hans E.

Soule, Charles W., Reno, Nev., assignor to J. C. Soule, Washington, D. C. Flight training apparatus. 2,592,968, Apr. 15.

Soule, Jessie C., assignee: *See*—
Soule, Charles W.

Southern Spindle & Flyer Co., Inc., assignee: *See*—
McGhee, Charles R.

Specialties Development Corporation, assignee: *See*—
Mapes, Daniel.

Spence, John, Hackensack, N. J. Rocking chair. 2,592,756, Apr. 15.

Spencer, Percy L., West Newton, assignor to Raytheon Manufacturing Company, Newton, Mass. High-frequency apparatus. 2,593,067, Apr. 15.

Spiselman, Louis: *See*—
Rosenberg, George, and Spiselman.

Spooner, William W., Ilkley, Eng'and. Nozzle for the ejection of fluid streams. 2,593,357, Apr. 15.

Sprich, Emil M., St. Louis, Mo. Pivoted lever crown cap remover. 2,593,358, Apr. 15.

Sprung, Douglas L., Montreal, Quebec, Canada. Armrest. 2,592,702, Apr. 15.

Spurgeon, Samuel J., and R. O. Kimbro, Birmingham, Ala., said Kimbro assignor to said Spurgeon. Troughing roll. 2,592,831, Apr. 15.

Squibb, E. R., & Sons, assignee: *See*—
Cleary, Thomas F., Jr.

Stachowiak, Harriet, Los Angeles, Calif. Roller for removing lint. 2,592,969, Apr. 15.

Stainton, Dudley E., Rickmansworth, England. Parallel wedge gauge. 2,592,757, Apr. 15.

Stainton, Dudley E., Rickmansworth, England. Wedge parallel gauge. 2,592,758, Apr. 15.

Stamper, Hamilton A., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Stylus structure for recorders. 2,593,068, Apr. 15.

Standard Oil Company, assignee: *See*—
Ryant, Charles J., Jr.
Hardman, Harley F.
Veatch, Franklin, and Partch.

Standard Oil Development Company, assignee: *See*—
Black, James F., and Kearby.
Bradley, John M., and Ogorzaly.
Kimberlin, Charles N., Jr.
Ogorzaly, Henry J.
Young, David W.

Starnes, Ray E., Mitchell, S. Dak. Sliding cutoff saw. 2,592,970, Apr. 15.

Starrfrasmaschinen A. G., assignee: *See*—
Thalmann, Alfred.

Stauffer Chemical Company, assignee: *See*—
Bender, Harry, and Pitt.

Steinmetz, Walter C., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Making one-piece idler rollers. 2,593,069, Apr. 15.

Stephenson, Maurice: *See*—
Fay, Charles H., and Stephenson.

Stewart, Harry, Grass Valley, Nev. Control handle for model airplanes. 2,592,971, Apr. 15.

Stilbert, Elmer K.: *See*—
Young, Arthur E., Stilbert, and Lalk.

Stiles, Alan R., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Preparation of alpha hydroxy phosphonates. 2,593,213, Apr. 15.

Stoddard, William B., Jr., assignor to The Champion Paper and Fibre Company, Hamilton, Ohio. Making tubular metallic wave guides. 2,592,614, Apr. 15.

Stone, John R., West Orange, N. J., assignor to Bell Te'ephone Laboratories, Incorporated, New York, N. Y. Current supply apparatus. 2,592,615, Apr. 15.

Stott, Louis L., Reading, Pa., and L. R. B. Hervey, West Concord, Mass., assignors to The Polymer Corporation, Reading, Pa. Treating nylon. 2,592,616, Apr. 15.

Strand Brothers Manufacturing Company, Incorporated, The, assignee: *See*—
Strand, John J.

Strand, John J., Ansonia, assignor to The Strand Brothers Manufacturing Company, Incorporated, Derby, Conn. Vegetable slicer. 2,592,832, Apr. 15.

Strassheim, Frederick W., Chicago, Ill. Filter. 2,592,972, Apr. 15.

Stray, Osmund, assignee: *See*—
Magnussen, Herman A., and Johansen.

Strehlow, Robert W., Milwaukee, A. M. Olson, Wauwatosa, and L. E. Kaap, assignors to Chain Belt Company, Milwaukee, Wis. Table scrap eliminating device. 2,593,359, Apr. 15.

Stroup, Charles L., Oak Park, Ill. Circuit control means. 2,593,214, Apr. 15.

Stuart, Alfred A., Jr., Hasbrouck Heights, assignor to Bendix Aviation Corporation, Teterboro, N. J. Compass compensation. 2,593,070, Apr. 15.

Sturgeon, Reginald, and E. Seddon, assignors to The United Glass Bottle Manufacturers Limited, London, England. Purification of minerals. 2,592,973, Apr. 15.

Sturgess, Inc., assignee: *See*—
Cushman, Clifford E.

Sulfrian, Gerard F., Chatham, N. J. Suspension liquid gas container. 2,592,974, Apr. 15.

Sulkowski, Stanley, Jr., Brooklyn, N. Y. Convertible top for automobiles. 2,593,360, Apr. 15.

Sullivan, William, Bishop Park, Toowoomba, Australia. Adapter for use when filling the tubes of vehicle tires with liquid. 2,592,759, Apr. 15.

Sulzer Freres, Société Anonyme, assignee: *See*—
Moessinger, Albert.

Summerhays, William A., Chicago, Ill., assignor to Conley Frog and Switch Co., Memphis, Tenn. Rail joint for locomotive turntables. 2,593,215, Apr. 15.

Sunstein, David E.: *See*—
Mankin, Arthur H., and Sunstein.

Sunstein, David E., Cynwyd, Pa., and A. H. Mankin, North Merrick, N. Y., assignors to Philco Corporation, Philadelphia, Pa. Object motion indicating system. 2,593,071, Apr. 15.

Super Mold Corporation of California, assignee: *See*—
Glynn, Edwin A.

Surface Combustion Corporation, assignee: *See*—
Kamm, Clarence W., and Sisco.

Surprenant Mfg. Co., assignee: *See*—
Donnan, Robert A.
Forsberg, George E.

Sussin, Max H., assignor to R. R. Robertson Company, Chicago, Ill. Automatic diaphragm control system. 2,593,216, Apr. 15.

Sutcliffe, Speakman & Company Limited, assignee: *See*—
Howard, Fred.

Sutera, Charles, Maspeth, N. Y. Self-balancing cabinet. 2,592,760, Apr. 15.

Sutton, O. A., Corporation, Inc., The, assignee: *See*—
Sutton, Ottis A.

Sutton, Ottis A., assignor to The O. A. Sutton Corporation, Inc., Wichita, Kans. Table top circulator. 2,593,217, Apr. 15.

Svendsgaard, Lars, Berkeley, Calif. Coffee urn. 2,592,761, Apr. 15.

Swain, Lois F., Middletown, Pa. Doll carrying apron. 2,593,218, Apr. 15.

Swanson, Harry G.: *See*—
Lundberg, John E., and Swanson.

Swanson, Oscar W., assignor to Barker Poultry Equipment Company, Ottumwa, Iowa. Apparatus for stripping leaves from flowers. 2,592,833, Apr. 15.

Swift & Company, assignee: *See*—
Brissey, George E., and Young.
Jensen, Lloyd B., and Hess.
Mathews, Ray V.

Szilkiai, George C., Princeton, N. J., assignor to Radio Corporation of America. Wide range high-frequency series-resonant tuning circuit. 2,593,361, Apr. 15.

Szilkiai, George C., Princeton, N. J., assignor to Radio Corporation of America. High-frequency amplitude modulated transmitter. 2,593,395, Apr. 15.

T. & T. Vicars Limited, assignee: *See*—
Crosland, Edward M.

Takeda Yakuhin Kogyo Kabushikigaisha, assignee: *See*—
Matsukawa, Taiso, and Iwatsu.

Talbot, Frank A., Baltimore, Md. Multiple switch. 2,593,072, Apr. 15.

Taylor, Barney L.: *See*—
Schlack, Carl A., and Taylor.

Taylor & Fenn Co., The, assignee: *See*—
Eaton, Gerald.

Taylor, Herbert L., Turtle Creek, Pa., assignor to Westinghouse Air Brake Company. Grading copper for use in copper oxide rectifiers. 2,592,975, Apr. 15.

Taylor, James E., Boonton, N. J., and J. H. Haslam, Newport, Del., assignors to The Girdler Corporation, Louisville, Ky. Separation of carbon dioxide from gases. 2,592,762, Apr. 15.

Taylor, John L., La Habra Heights, Calif. Support for containers of pastelike substances having fluid pressure means for dispensing said substances. 2,593,362, Apr. 15.

Taylor Refiner Company, Inc., assignee: *See*—
Ottersland, Peter N., Rigabar, and Lansing.

Taylor, Robert S., Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Chlorinated uncompacted polyethylene. 2,592,763, Apr. 15.

Taylor, Ronald W.: *See*—
Bowen, Edward G., Taylor, Williams, Brown, and Touch.

Technology Instrument Corporation, assignee: *See*—
Packard, Lucius E., and Scott.

Teoplilian, Aram, Brooklyn, N. Y. Hair curler. 2,592,764, Apr. 15.

Thalmann, Alfred, assignor to Starrfras-maschinen A. G., Rorschacherberg, Switzerland. Device for the fully automatic machining of surfaces of leaflike works. 2,593,363, Apr. 15.

Thomas, Charles L., Winnetka, Ill., and J. C. Morrell, Chevy Chase, Md., assignors to Universal Oil Products Company, Chicago, Ill. Dehydrogenation of hydrocarbons. 2,592,765, Apr. 15.

Thomas, Howard O., South Gate, Calif. Oil seal structure. 2,593,219, Apr. 15.

Thomas, Joseph G., Lebanon, Mo., assignor of one-half to B. F. Krehbiel, Wichita, Kans. Plant-growing apparatus. 2,592,976, Apr. 15.

Thomas, Marion E.: *See*—
Piety, Raymond G., and Thomas.

Thompson, Frank R., and W. D. Bell, Akron, assignors, by mesne assignments, to The Falls Stamping and Welding Company, Cuyahoga Falls, Ohio. Canopy construction. 2,593,221, Apr. 15.

Thompson, Percy W., Memphis, Tenn. Writing table having an adjustable drawing board. 2,593,364, Apr. 15.

Thompson Products, Inc., assignee: *See*—
Booth, James H.

Thompson, Robert A.: *See*—
Foust, Floyd J., Childress, Crim, and Thompson.

Thompson, William W., Birmingham, and G. F. Whitston, Inkster, Mich. Fish bait. 2,593,220, Apr. 15.

Thull, John F., assignor to Brown & Bigelow, St. Paul, Minn. Ball point pen. 2,593,365, Apr. 15.

Thull, John F., Minneapolis, assignor to Brown & Bigelow, St. Paul, Minn. Writing instrument. 2,593,366, Apr. 15.

Tiffany, Carter, Englewood, N. J. Hydrocarbon gas detector. 2,592,834, Apr. 15.

Timken-Detroit Axle Company, The, assignee: *See*—
Buckendale, Lawrence R.

Timken Roller Bearing Company, The, assignee: *See*—
Devis, Earl L., and Unkefer.

Tincher, Chester A., assignor of nineteen and one-half per cent to F. E. Johnson, seventy and one-half per cent to C. J. Johnson, and ten per cent to B. W. Morrow, Philomath, Oreg. Folder for perforated tape. 2,592,766, Apr. 15.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. S-(ethylxanthoyl) piperidyl thiophosphoric chloride. 2,592,617, Apr. 15.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Bis(ethylxanthoylthioxy)-piperidylphosphine oxides and sulfides. 2,592,618, Apr. 15.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. O-ethyl S-(ethylxanthoyl) piperidyl thiophosphate. 2,592,619, Apr. 15.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Ethylxanthoylthioxy-piperidyl-cyanophosphine oxide. 2,592,620, Apr. 15.

Tolkmith, Henry, assignor to The Dow Chemical Company, Midland, Mich. Ethylxanthoylthioxy-dipiperidyl-phosphine sulfide. 2,592,621, Apr. 15.

Tomlin, Edward A., Jr.: *See*—
Manger, Arthur O., and Tomlin.

Torstenson, Henry A., assignee: *See*—
Wandel, Oscar A.

Touch, Arthur G.: *See*—
Bowen, Edward G., Taylor, Williams, Brown, and Touch.

Towle, Warren L., Akron, Ohio, assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburg, Pa. Production of butadiene monochlorohydrin. 2,592,977, Apr. 15.

Tracy, Florence F., Daytona Beach, Fla. Support for service trays. 2,593,222, Apr. 15.

Trailmobile Inc., assignee: *See*—
Black, James J.

Transit Research Corporation, assignee: *See*—
Blue, Lebert E.

Trelease, Richard D., Chicago, Ill., G. O. Sampson, Larchmont, N. Y., and D. V. Alstrand, Maywood, Ill., said Sampson and said Alstrand assignors to American Can Company, New York, N. Y. Canning of hard boiled eggs. 2,593,223, Apr. 15.

Trevaskis, Henry W., Solihull, assignor to Dunlop Rubber Company Limited, London, England. Resilient tensioned windscreen wiper for curved windscreens. 2,593,073, Apr. 15.

Trexler, Richard R., Evanston, Ill. Liquid dispenser with register having dispensing means operative only after a time interval elapses following completed zero setting of register. 2,592,622, Apr. 15.

Trimboli, Frank A., Red Bank, N. J. Retractable tool. 2,592,978, Apr. 15.

Trist, Arthur R., Saint Catherines, Ontario, Canada. Machine for the coating of webs of material. 2,593,074, Apr. 15.

Turnbull, Norman K., Pitman, N. J. Primer assembly for artillery ammunition. 2,592,623, Apr. 15.

Turner, Edgar P., Fanwood, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Nozzle height adjusting mechanism for vacuum cleaners. 2,592,767, Apr. 15.

Turner Manufacturing Company, assignee: *See*—
Beaver, Hartsell W.

Ungar, Jules, New York, N. Y. Collapsible lighting shield for tobacco pipes. 2,592,835, Apr. 15.

Union Oil Company of California, assignee: *See*—
Smith, Andrew I.

United Biscuit Company, assignee: *See*—
Richardson, Ralph R., and Edmondson.

United Glass Bottle Manufacturers Limited, The, assignee: *See*—
Sturgeon, Reginald, and Seddon.

United Industrial Syndicate, Inc., assignee: *See*—
Lebensfeld, Harry.

United Shoe Machinery Corporation, assignee: *See*—
Hart, George T.

United States Hoffman Machinery Corporation, assignee: *See*—
Armstrong, Francis J.

U. S. Hoffman Machinery Corporation, assignee: *See*—
Fallmezger, Eugene A.

United States Plywood Corporation, assignee: *See*—
Cone, Charles N.
United States Rubber Company, assignee: *See*—
Lewis, Arthur P., and Fisk.
U. S. Rubber Reclaiming Company, Inc., assignee: *See*—
Elgin, Joseph C.
United States Steel Company, assignee: *See*—
Lorig, Edwin T.
Universal Oil Products Company, assignee: *See*—
Kinnaird, William R.
Thomas, Charles L., and Morrell.
West, James P.
Universal Wire Spring Company, The, assignee: *See*—
Neely, William H.
Unkefer, Charles E.: *See*—
Devis, Earl L., and Unkefer.
Upjohn Company, The, assignee: *See*—
Mariatt, Paul E., Hanse, McIntosh, and Levin.
Utterback, Ernest, Upper Darby, W. A. Hagerbaumer, Brookline, Pa., and R. E. Dooley, Rockaway, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Graphic indicator responsive to a plurality of conditions in a continuous processing system. 2,593,224, Apr. 15.
Vale, George M., Saint Neots, England. Electrically controlled system and automatic machine for repetition work. 2,592,979, Apr. 15.
Vale, Jalva, Birmingham, Ala., and C. E. Klopfer, Washington, D. C., said Klopfer assignor to said Vale. Typewriter support. 2,593,075, Apr. 15.
Van Alphen, Pieter M.: *See*—
Rinia, Herre, van Alphen, van Weenen, Leblans, and Bouwers.
Van Alphen, Pieter M., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Device for locating picture plates in succession so as to be substantially normal to the light path of lighting apparatus. 2,593,076, Apr. 15.
Van der Steenhoven, Hillegardus: *See*—
Schrage, Bote, Wijsman, and van den Steenhoven.
Van der Pyl, Edward, Holden, assignor to Norton Company, Worcester, Mass. Automatic molding press. 2,592,768, Apr. 15.
Vandersee, Harry H., Racine, Wis., assignor to Joy Manufacturing Company. Reeling Mechanism. 2,593,367, Apr. 15.
Van Gelder, Gozewijn: *See*—
Vervest, Wilhelmus L., and van Gelder.
Vanleirsberghe, Leonard, Maywood, Ill. Portable lever actuated tire removing tool. 2,592,769, Apr. 15.
Van Ryan, Anthony, South Milwaukee, and W. R. Harry, Milwaukee, Wis., assignors to McGraw Electric Company. Polyphase circuit interrupter. 2,593,225, Apr. 15.
Van Weenen, Franciscus L.: *See*—
Rinia, Here, van Alphen, van Weenen, Leblans, and Bouwers.
Van Wert, William B., Peckville, Pa. Vertical flue boiler with internal heater. 2,592,980, Apr. 15.
Vapor Heating Corporation, assignee: *See*—
Lehane, Timothy J., and Gardner.
Veatch, Franklin, and J. G. Partch, assignors to The Standard Oil Company, Cleveland, Ohio. Cutting oil concentrate and making same. 2,592,624, Apr. 15.
Vendo Company, The, assignee: *See*—
Andrews, Boley A.
Verderber, Joseph, Cleveland, Ohio. Adjustable golf club. 2,593,368, Apr. 15.
Verhagen, Edward L., assignor to The Regina Corporation, Rahway, N. J. Can opener. 2,593,390, Apr. 15.
Vervest, Wilhelmus L., and G. V. Gelder, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Pawl mechanism and assembly. 2,593,226, Apr. 15.
Vickers-Armstrongs Limited, assignee: *See*—
Brereton, Christopher F.
Violet, Hans E., Basel, assignor to Sotecom S. A., Geneva, Switzerland. Two-wheel vehicle. 2,592,981, Apr. 15.
Violet, Hans E., Zurich, assignor to Sotecom S. A., Geneva, Switzerland. Transmission. 2,592,982, Apr. 15.
Vogt, Paul, Cheektowaga, N. Y. Knockdown stand. 2,593,077, Apr. 15.
Von Hildebrandt, Paul G., Portland, Oreg. Apparatus for separating cooking liquor from pulp. 2,592,983, Apr. 15.
Vychodoceske Chemicke Zavody, narodni podnik, assignee: *See*—
Daněk, Otto, and Nosek.
Wachter, Lester W.: *See*—
Anthony, William C., and Wachter.
Wachter, Lester W., assignor to Anthony Company, Streator, Ill. Pump. 2,593,369, Apr. 15.
Wagner, Cary R., Utica, Ohio, assignor to Phillips Petroleum Company. Production of alkyl quinolines and alkenyl quinolines. 2,592,625, Apr. 15.
Wagner, Paul H., Milwaukee, Wis. Oil filter. 2,593,227, Apr. 15.
Wagner, Paul H., Milwaukee, Wis. Filter. 2,593,228, Apr. 15.
Waldie, George A., Worthington, Ohio, and H. F. MacMillin, Wilmette, Ill., assignors to MacMillin Engineering Corporation. Variable-oscillator controlled relay system. 2,592,770, Apr. 15.
Walker Machine & Foundry Corporation, assignee: *See*—
Bernard, John E., Jr.
Wallace, Harry W., Windsor, Ontario, Canada, assignor to Wheel Trueing Tool Company, Detroit, Mich. Drill bit. 2,593,229, Apr. 15.
Wallace & Tiernan Products, Inc., assignee: *See*—
Hall, James E., and Heiss.
Walling, Joseph M., St. Louis, Mo. Hydrostatic pressure testing device for bottles and the like. 2,592,984, Apr. 15.
Walrafen, Gerald W., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for working plastic material. 2,592,985, Apr. 15.
Walter, John M., assignor to The G. A. Gray Company, Cincinnati, Ohio. Machine tool slide bearing. 2,593,230, Apr. 15.
Wampler, Edmund B., Trafford, Pa. Towing harness. 2,592,771, Apr. 15.
Wandel, Oscar A., assignor to H. A. Torstenson, Chicago, Ill. Shock absorbing means for spring actuated tacking devices. 2,593,231, Apr. 15.
Waniess, Ivan J., Chevy Chase, Md., assignor of one-fifth to S. B. Wicser, Washington, D. C. Portable pier. 2,592,626, Apr. 15.
War, United States of America as represented by the Secretary of, assignee: *See*—
Dicke, Robert H.
Ward, Arthur J., Washington, D. C. Pressure vessel closure. 2,592,627, Apr. 15.
Ward, Blenkinsop & Company Limited, assignee: *See*—
Dickenson, Haydn G., Chapman, and Hopf.
Wardius, Walter A., Milwaukee, Wis. Safety attachment for outboard motors. 2,592,772, Apr. 15.
Warren, Virgil P., II, Atlanta, Ga. Combination dairy, vegetable, and storage refrigerator. 2,593,370, Apr. 15.
Watson, Jeannette K., New Canaan, Conn., assignor to International Business Machines Corporation, New York, N. Y. Electrically operated stenographic machine. 2,593,371, Apr. 15.
Watson, Kenneth M., Madison, Wis., assignor to Sinclair Refining Company, New York, N. Y. Concentrating or purifying carbon monoxide occurring in admixture with other gases. 2,593,232, Apr. 15.
Watts, Raymond, assignor to American Steel Foundries, Chicago, Ill. Shock absorber. 2,593,372, Apr. 15.
Webb, Christopher F., London, England, assignor to General Register Corporation, Long Island City, N. Y. Rotary ticket printing and mutilating machine. 2,593,078, Apr. 15.
Weber, Donald J., Richwood, assignor to The Yardley Plastics Company, Columbus, Ohio. Accumulator. 2,592,836, Apr. 15.
Weber, John W., Norristown, Pa. Resilient and heat-resistant blanket. 2,593,373, Apr. 15.
Wedemeyer, Eric, Floral Park, assignor to Hamilton Art Metal Corporation, New York, N. Y. Pyrophoric lighter. 2,592,837, Apr. 15.
Weibull, Nils R. M., Malmo, Sweden. Timing relay. 2,592,986, Apr. 15.
Weidner, Charles L.: *See*—
Engel, Edward W., Giolito, McGarry, Morris, and Weidner.
Weisler, Leonard, assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Treatment of nonalpha tocopherols. 2,592,628, Apr. 15.
Weisler, Leonard, assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Formylating and reducing nonalpha tocopherols. 2,592,629, Apr. 15.
Weisler, Leonard, assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Formylating tocopherol material. 2,592,630, Apr. 15.
Weiss, Erwin A., and L. H. Frailing, Detroit, and R. P. Clifton, Dearborn, assignors to Packard Motor Car Company, Detroit, Mich. Control means for power transmission. 2,592,773, Apr. 15.
Wells, William S., Palo Alto, Calif., assignor to Daisy Manufacturing Company, Plymouth, Mich. Loading mechanism for pneumatic guns. 2,592,838, Apr. 15.
Welsh, Harold H., and G. A. Besaw, Los Angeles, Calif. Door latching and locking unit. 2,592,774, Apr. 15.
Wessig, August, Chicago, Ill. Folding table. 2,592,839, Apr. 15.
West, James P., Westmont, assignor to Universal Oil Products Company, Chicago, Ill. Preparation of catalyst containing silica and alumina or magnesia or both. 2,592,775, Apr. 15.
Western Electric Company, Incorporated, assignee: *See*—
Clifford, Harry W., and MacDonald.
Fermanian, Armen, Soderman, and Workman.
Gliss, George E.
Joseph, Jay W.
Rayburn, Vincent A., and Robson.
Rutherford, Albert D., Jr.
Western Metalcraft, Inc., assignee: *See*—
Lay, Harvey T.
Western Union Telegraph Company, The, assignee: *See*—
Wise, Raleigh J., and Parrott.
Westinghouse Air Brake Company, assignee: *See*—
Breisch, Edgar W., and McKenna.
Jerome, Arthur L., Lewis, and Pascoe.
Taylor, Herbert L.
Westinghouse Electric Corporation, assignee: *See*—
Leeds, Winthrop M., Friedrich, and Fry.

Wheel Trueing Tool Company, assignee: *See*—
Wallace, Harry W.
White Cabinet Corporation, assignee: *See*—
White, Charles C.
White, Charles C., assignor to White Cabinet Corporation, New York, N. Y. Oven. 2,593,233, Apr. 15.
White, Charles H., assignor to Deere & Company, Moline, Ill. Disk harrow angling link. 2,592,987, Apr. 15.
White, S. S., Dental Manufacturing Company, The, assignee: *See*—
Balderstone, Edward.
Whitin, Herbert A., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Weft detecting mechanism for looms. 2,593,079, Apr. 15.
Whitin Machine Works, assignee: *See*—
Dudley, John S., and Brandt.
Whiting, Leo R.: *See*—
Carlston, Earl F., and Whiting.
Whitmore, Robert A., Saratoga, and F. D. Hickey, Mountain View, assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Coagulation-resistant cream style corn and preparing the same. 2,592,988, Apr. 15.
Whitney, Loren L., Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill. Drop forged and welded brake head. 2,593,374, Apr. 15.
Whitston, Gilbert F.: *See*—
Thompson, William W., and Whitston.
Wickson, Edward J., South Orange, and Walter D. Paist, Berkley Heights, N. J., assignors to Celanese Corporation of America, New York, N. Y. Cellulose lower alkanoate plastic composition. 2,592,776, Apr. 15.
Wicser, Sol B., assignee: *See*—
Waniess, Ivan J.
Wigely, Floyd R., assignee: *See*—
Green, Jesse W.
Wijsman, Johannes: *See*—
Schrage, Bote, Wijsman, and Van den Steenhoven.
Wilkens, Arno G. K.: *See*—
Ostermann, Hans J., Wilkens, and Bryan.
Wilkes Traub, New York, N. Y. Surgical instrument. 2,592,778, Apr. 15.
Wilkey, Rollie R., Chicago, Ill. Spot removing gun. 2,593,080, Apr. 15.
Williams, Charles R., Hawthorne, and G. E. Hagen, Lawndale, assignors to Northrop Aircraft, Inc., Hawthorne, Calif. Asymmetrical cold cathode flip-flop circuit. 2,593,375, Apr. 15.
Williams, Everard M., and E. V. Cousy, Dayton, Ohio. Pulse analyser. 2,592,631, Apr. 15.
Williams, Frederic C.: *See*—
Bowen, Edward G., Taylor, Williams, Brown, and Touch.
Williams, Frederic C., Great Malvern, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England. Pulse-echo identifying system. 2,592,777, Apr. 15.
Williamson, Ollie L., assignor to Dan River Mills, Incorporated, Danville, Va. Apparatus for treating yarns. 2,592,632, Apr. 15.
Willis, Paul, Blue Island, Ill. Air valve. 2,593,376, Apr. 15.
Wilmot, Charles H., Gales Ferry, assignor to The Plastic Wire & Cable Corporation, Jewett City, Conn. Apparatus for assembling connector plugs. 2,593,081, Apr. 15.
Wilson, Ira G., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cavity resonator. 2,593,234, Apr. 15.
Wilson, John H., Wichita Falls, Tex. Rotary table. 2,592,633, Apr. 15.
Wilson, John H., Wichita Falls, Tex. Concrete slab wall joint. 2,592,634, Apr. 15.
Wilson, John M., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Thermal control apparatus with signal means. 2,592,989, Apr. 15.
Wilson Manufacturing Company, Inc., The, assignee: *See*—
Loncich, Joseph C.
Wintermute, Harry A., Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Gas cleaning apparatus. 2,593,377, Apr. 15.
Winters, Nick, Weirton, W. Va., assignor to National Steel Corporation. Rail splice and rerailer. 2,593,235, Apr. 15.
Wipac Filtration Limited, assignee: *See*—
Bailey, Ronald A.
Wise, Raleigh J., Dunellen, and R. D. Parrott, West New York, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Tape controlled telegraph transmitter. 2,592,779, Apr. 15.
Wolf, Paul J., West Springfield, Mass. Attachment for garden tools. 2,592,990, Apr. 15.
Woller-Duff, Hilda, New York, N. Y. Mitten. 2,593,378, Apr. 15.
Wood, Claude E.: *See*—
Reagan, Sydney C., Sr., Reagan, Wood, and Wood.
Wood, Gertrude: *See*—
Reagan, Sydney C., Sr., Reagan, Wood, and Wood.
Woods, Fred D., Glencoe, assignor to Autopoint Company, Chicago, Ill. Fountain pen. 2,593,082, Apr. 15.
Woods, John P., Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa. Seismic method and apparatus. 2,592,780, Apr. 15.
Workman, William J.: *See*—
Fermanian, Armen, Soderman, and Workman.
Wueste, Gus D., San Antonio, Tex. Gate operator. 2,593,379, Apr. 15.
Wyse, Harold G., Dayton, Ohio. Tobacco pipe. 2,593,380, Apr. 15.
Yaffe, Jerome: *See*—
Cassil, Carroll C., and Yaffe.
Yardley Plastics Company, The, assignee: *See*—
Weber, Donald J.
Yavner, Sylvan, Norfolk, Va. Ratchet wrench. 2,592,781, Apr. 15.
Yeager, Garland A.: *See*—
Yeager, James O. and G. A.
Yeager, James O. and G. A., McGregor, Tex. Stalk cutter. 2,592,991, Apr. 15.
Young, Arthur E., E. K. Stilbert, and R. H. Lalk, assignors to The Dow Chemical Company, Midland, Mich. Adhesive composition comprising a vinylidene chloride-acrylonitrile copolymer latex and a protein. 2,593,236, Apr. 15.
Young, David W., Roselle, N. J., assignor to Standard Oil Development Company. Stabilized paraffin wax compositions. 2,593,381, Apr. 15.
Young, Harland H.: *See*—
Brissey, George E., and Young.
Zechtzer, Sol: *See*—
Reynolds, Foster N., Jr., Zechtzer, and Kiebert.
Zenith Radio Corporation, assignee: *See*—
Bridges, Jack E.
Cotsworth, Albert, III.
Kafka, Nicholas.
Zimmermann, Charles E., North Arlington, N. J. Sanitary telephone mouthpiece attachment. 2,593,382, Apr. 15.
Zweifel, George E., & Company, assignee: *See*—
Zweifel, George E., and Bookhults.
Zweifel, George E., and D. H. Bookhults, assignors to George E. Zweifel & Company, Portland, Oreg. Hydraulic slicer. 2,592,782, Apr. 15.

LIST OF PLANT INVENTIONS

Ivy plant. K. E. and E. M. Williams. 1,082, Apr. 15.

LIST OF DESIGN INVENTIONS

Airship. R. F. Lewis. 166,475, Apr. 15.
Ash tray. W. F. Vernon. 166,509, Apr. 15.
Automobile wind deflector. H. A. Reichman. 166,494, Apr. 15.
Bank, Moneybag. B. and M. Krebs. 166,473, Apr. 15.
Battery filler unit. A. H. Mosher. 166,482, Apr. 15.
Boat, Passenger. W. Wiggins, Jr. 166,514, Apr. 15.
Bottle. J. H. Funkey. 166,461, Apr. 15.
Bottle. D. Goldstein. 166,462, Apr. 15.
Bottle, Decanter. J. A. Margolis. 166,477, Apr. 15.
Bottle, Nongurgling. C. E. de Sá Cardoso. 166,454, Apr. 15.
Bracelet or the like. A. Philippe. 166,489, Apr. 15.
Brassière. M. Newman. 166,485, Apr. 15.
Brooch or the like. A. Philippe. 166,491, Apr. 15.
Cart for transporting a golf bag or the like. J. H. Gunning. 166,464, Apr. 15.
Casing for an amusement game. H. L. Skelly and E. Freedman. 166,503, Apr. 15.
Cigarette case or similar article. A. L. White. 166,512, Apr. 15.
Container for fluid, Dispensing. P. E. Roehrich. 166,497, Apr. 15.
Davenport. J. Goulart. 166,463, Apr. 15.
Decimal chart or similar article. J. H. Slingerland. 166,504, Apr. 15.
Dispenser or similar article, Tape. A. P. Krueger. 166,474, Apr. 15.
Drainer for dishes, glassware, and silverware. H. J. Watral. 166,510, Apr. 15.
Embroidered trimming or similar article. H. Tobler. 166,508, Apr. 15.
Fish bowl. J. J. Edwards. 166,458, Apr. 15.
Fork, Barbeque. M. C. Bert, Jr. 166,441, Apr. 15.
Goblet or similar article. W. P. Morrison. 166,481, Apr. 15.
Hair curler or similar article. E. Buzasi. 166,443, Apr. 15.
Handbag. W. H. Hardy. 166,465, Apr. 15.
Handle and lock unit, Combination. E. F. Rutan. 166,499, Apr. 15.
Holder, Condiment. A. B. J. and J. I. Dokus. 166,456, Apr. 15.
Holder, Roll. A. Badami. 166,439, Apr. 15.
Holder, Windmill knife. B. Yellin. 166,516, Apr. 15.
Hourglass. E. G. Nyholm. 166,486, Apr. 15.
Hydraulic pocket slasher. E. W. Smith. 166,505, Apr. 15.
Jar, Grease. M. G. Miller. 166,480, Apr. 15.
Link chain for a bracelet or the like. A. Philippe. 166,488, Apr. 15.
Link chain for a necklace or the like. A. Philippe. 166,490, Apr. 15.
Medallion. J. D. Cuccio. 166,453, Apr. 15.
Medallion. E. E. Herrmann. 166,466, Apr. 15.
Mirror, Illuminable make-up. E. H. Westmore. 166,511, Apr. 15.
Molded pulp insulation article. R. S. French. 166,460, Apr. 15.
Mop. W. E. Parker. 166,487, Apr. 15.
Ophthalmoscope. J. T. Armbruster. 166,438, Apr. 15.
Pack for fruit or similar articles. W. H. Randall. 166,492–3, Apr. 15.
Packing flat. U. H. Despres. 166,455, Apr. 15.
Packing sheet for fragile articles. P. M. Williams. 166,515, Apr. 15.
Pendant. V. Sorrentino. 166,507, Apr. 15.
Receptacle and closure member therefor, Combined. H. A. Marx. 166,478, Apr. 15.
Receptacle, Multitray serving. J. M. Black. 166,442, Apr. 15.
Receptacle or similar article, Cake. N. W. Roop. 166,498, Apr. 15.
Slipper. D. L. Fenlason. 166,459, Apr. 15.
Sole for a boot or similar article. S. Kaplan. 166,472, Apr. 15.
Spoon, Child's feeding. F. H. Carré. 166,444, Apr. 15.
Stocking. M. Junghans. 166,471, Apr. 15.
Stocking, Lady's. E. A. Maye and W. M. Powell. 166,479, Apr. 15.
Stocking, Lady's. W. Mueller. 166,483, Apr. 15.
Tablecloth. H. D. Hooven. 166,467–70, Apr. 15.
Tablecloth or similar article. N. Shalom. 166,500–02, Apr. 15.
Toy chair, cradle, and table, Combination. C. A. Nash. 166,484, Apr. 15.
Toy, Flying. H. Benson. 166,440, Apr. 15.
Transit level, Builder's. W. F. Sprengnether, Jr. 166,506, Apr. 15.
Vase or similar article. H. Conover. 166,445–52, Apr. 15.
Vehicle hood ornament and deflector, Combination. H. A. Reichman. 166,495–6, Apr. 15.
Vessel, Marine. W. Wiggins, Jr. 166,513, Apr. 15.
Wheel cover member or similar article. G. A. Lyon. 166,476, Apr. 15.
Winding-key for a clock or similar article. H. Dreyfuss. 166,457, Apr. 15.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory hydraulic adjuster. E. A. Rockwell. 2,593,192, Apr. 15.
Accumulator. D. J. Weber. 2,592,836, Apr. 15.
Acid cleaner and detergent. G. E. Brissey and H. H. Young. 2,593,259, Apr. 15.
Adapter for use when filling the tubes of vehicle tires with liquid. W. Sullivan. 2,592,759, Apr. 15.
Adhesive bandage material. C. A. Hanington. 2,592,801, Apr. 15.
Adhesive composition comprising a vinylidene chloride-acrylonitrile copolymer latex and a protein. A. E. Young, E. K. Stilbert, and R. H. Lalk. 2,593,236, Apr. 15.
Adhesive tape dispenser. S. Garik. 2,593,291, Apr. 15.
Adjustable apron feeder. V. C. Anderson. 2,593,084, Apr. 15.
Adjustable safety latch. R. R. Scott. 2,592,961, Apr. 15.
Adjustable width gate. H. J. Noll. 2,592,722, Apr. 15.
Aerosol insecticide bomb. F. J. Metzger. 2,593,165, Apr. 15.
Agents for combating pests and a method for killing pests. H. Gysin. 2,592,890, Apr. 15.
Air reheat control for heating system. T. J. Lehane and I. S. Gardner. 2,593,038, Apr. 15.
Air separator for liquids. A. L. Grise. 2,592,685, Apr. 15.
Air valve. P. Willis. 2,593,376, Apr. 15.
Alkali cellulose, Making. H. O. Samuelson. 2,592,746, Apr. 15.
Alkaline accumulators with so-called double- or twin cells. C. H. O. Lübeck. 2,592,921, Apr. 15.
Alkyl quinolines and alkenyl quinolines, Production of. C. R. Wagner. 2,592,625, Apr. 15.
Alligator shear blade mounting. L. L. Hercik. 2,593,144, Apr. 15.
Alpha hydroxy phosphonates, Preparation of. A. R. Stiles. 2,593,213, Apr. 15.
Altitude control system. R. L. Divoll. 2,593,014, Apr. 15.
Amplifier, Self-correcting. W. D. Lewis. 2,592,716, Apr. 15.
Anchor. J. V. Crawford and R. W. Jensen. 2,593,111, Apr. 15.
Androstatrienes and preparing the same. S. Bernstein and K. J. Sax. 2,593,248, Apr. 15.
Animal feed. M. T. Harvey. 2,592,565, Apr. 15.
Animal trap. O. E. Fredrickson. 2,592,677, Apr. 15.
Anklet. J. A. Richardson. 2,592,739, Apr. 15.
Annular combustion chamber with hollow air guide vanes with radial gasiform fuel slots for gas turbines. M. H. L. Sédille. 2,592,748, Apr. 15.
Anode structure for electron discharge devices. S. O. Ekstrand and V. L. Ronci. 2,592,549, Apr. 15.
Antiskid chain coupling. J. J. Fendrock. 2,593,018, Apr. 15.
Apparatus for assembling connector plugs. C. H. Wilmot. 2,593,081, Apr. 15.
Apparatus for charging and storing materials. W. R. Graham, Jr., and J. Chrisman. 2,592,559, Apr. 15.
Apparatus for conveying, dividing, and piling sheet material. V. A. Rayburn and D. C. Robson. 2,593,343, Apr. 15.
Apparatus for detecting the presence of foreign bodies in transparent containers. P. M. Johnson and L. M. Hinrichs. 2,593,311, Apr. 15.
Apparatus for detecting water vapor in gases. C. W. Kamm and C. W. Sisco. 2,593,313, Apr. 15.
Apparatus for determining location of bubbles in tubes in level instruments. W. D. Moore. 2,592,941, Apr. 15.
Apparatus for embossing paper. P. R. Illiner. 2,593,149, Apr. 15.
Apparatus for extruding and straining compounds. G. E. Gliss. 2,593,136, Apr. 15.
Apparatus for handling strip material from extruding machines. G. H. Schanz. 2,592,958, Apr. 15.
Apparatus for heat-treating nylon yarn or cord. A. P. Lewis and C. F. Fisk. 2,593,320, Apr. 15.
Apparatus for intraoral photography. C. A. Schlack and B. L. Taylor. 2,592,604, Apr. 15.
Apparatus for landing rockets and rocket ships. D. B. Driskill. 2,592,873, Apr. 15.
Apparatus for mixing rubber and the like. M. Engler. 2,593,282, Apr. 15.
Apparatus for positioning strip. E. T. Lorig. 2,593,157–8, Apr. 15.
Apparatus for printing newspapers and the like. W. W. Davidson. 2,593,118, Apr. 15.
Apparatus for recording and reproducing electrical communication currents. M. H. Jennings. 2,592,572, Apr. 15.
Apparatus for removal of gases from liquids. C. H. Goodwin. 2,592,680, Apr. 15.
Apparatus for removing the product film from a revolving drum surface. C. O. Lavett. 2,592,914, Apr. 15.
Apparatus for screening a suspension of solid material in a liquid. H. F. Schenk. 2,593,202, Apr. 15.
Apparatus for selecting signals of a particular frequency. L. Chauveau. 2,593,266, Apr. 15.
Apparatus for separating cooking liquor from pulp. P. G. von Hildebrandt. 2,592,983, Apr. 15.
Apparatus for setting thermostatic controls. S. J. Jacobs. 2,592,905, Apr. 15.
Apparatus for stripping leaves from flowers. O. W. Swanson. 2,592,833, Apr. 15.
Apparatus for the treatment of croup and the like. S. Y. Gibbon. 2,593,134, Apr. 15.
Apparatus for treating plastic materials. D. C. Chase and J. M. Joyner. 2,593,265, Apr. 15.
Apparatus for treating yarns. O. L. Williamson. 2,592,632, Apr. 15.
Apparatus for working plastic material. G. W. Walrafen. 2,592,985, Apr. 15.
Apron, Doll carrying. L. F. Swain. 2,593,218, Apr. 15.
Armrest. D. L. Sprung. 2,592,702, Apr. 15.
Aromatic mercury halides, Preparation of. O. Daněk and J. Nosek. 2,593,114, Apr. 15.
Arrangement for holding removable dental prothesis apparatus in the mouth. A. Fiorentini. 2,593,287, Apr. 15.
Article of furniture. B. L. Cockrell. 2,593,271, Apr. 15.
Artificial bait. A. J. Saig. 2,593,199, Apr. 15.
Artificial eye and making same. F. W. Jardon. 2,593,150, Apr. 15.
Asbestos roofing felt and manufacture. G. W. Clarvoe. 2,593,010, Apr. 15.
Ash-conveying means. J. K. Dukas. 2,593,123, Apr. 15.
Ash tray. P. S. Harper. 2,593,142, Apr. 15.
Asphalt cutback containing an aliphatic phosphoric acid ester. H. F. Hardman. 2,592,564, Apr. 15.
Asymmetrical cold cathode flip-flop circuit. C. R. Williams and G. E. Hagen. 2,593,375, Apr. 15.
Attaching fender flaps. H. Price and E. B. George. 2,593,179, Apr. 15.
Attachment for garden tools. P. J. Wolf. 2,592,990, Apr. 15.
Automatic diaphragm control system. M. H. Sussin. 2,593,216, Apr. 15.
Automatic gate. R. Q. Puckett. 2,592,736, Apr. 15.
Automatic molding press. E. van der Pyl. 2,592,768, Apr. 15.
Automatic recirculating control for pumps. H. A. Schlieder. 2,593,058, Apr. 15.
Automatic starting system for internal-combustion engines. M. P. Odell. 2,592,945, Apr. 15.
Avoiding effect of moisture during high-frequency dielectric heating. G. T. Hart. 2,592,691, Apr. 15.
Awning. J. F. Kramer. 2,592,579, Apr. 15.
Backing plate for strainers. A. D. Rutherford, Jr. 2,593,198, Apr. 15.
Bag: *See*—
Perforated multiple ply bag.
Bale loader. M. R. Haase. 2,593,023, Apr. 15.
Ball-bearing assembly. H. Lebensfeld. 2,592,811, Apr. 15.
Ball cock reseating tool. A. W. Delekto. 2,593,013, Apr. 15.
Ball initialing machine. C. D. Smith. 2,593,212, Apr. 15.
Bar: *See*—
Rotating cutter bar.
Bar miller. T. S. See and H. A. Frommelt. 2,592,606, Apr. 15.
Barn gutter cleaner. H. O. Petraske. 2,593,340, Apr. 15.
Base stand. T. L. Greenwood. 2,592,561, Apr. 15.
Battery, Galvanic. G. E. Booth. 2,593,252, Apr. 15.
Bearing: *See*—
Machine tool slide bearing.
Bearing structure for spinning and twisting spindles. W. Naegeli. 2,593,334, Apr. 15.
Beehive with ventilating ends. J. W. Green. 2,593,296, Apr. 15.
Belting. A. T. Ewell. 2,593,284, Apr. 15.
Berth operating means for railway sleeping cars. J. C. Lyon. 2,592,924, Apr. 15.

Billfold insert. J. C. Loncich. 2,592,918, Apr. 15.
Bis(ethylxanthoylthioxy)-piperidylphosphine oxides and sulfides. H. Tolkmith. 2,592,618, Apr. 15.
Bit: *See*—
Drill bit.
Blanket, Resilient and heat-resistant. J. W. Weber. 2,593,373, Apr. 15.
Blast furnace operation. J. M. Bradley and H. J. Ogorzaly. 2,593,257, Apr. 15.
Block: *See*—
Mason's line block.
Board: *See*—
Electrical instruction board.
Boat and shield, Combustion. G. M. Dreher. 2,593,015, Apr. 15.
Boat construction. A. C. Hoggatt. 2,592,697, Apr. 15.
Boiler: *See*—
Vertical flue downdraft boiler.
Boiler with internal heater, Vertical flue. W. B. Van Wert. 2,592,980, Apr. 15.
Bottle cap remover. W. Porter, Jr. 2,593,053, Apr. 15.
Bottle cap remover, Pivoted lever. E. Gedde. 2,592,679, Apr. 15.
Bottle carrier. C. L. Gilbert. 2,593,135, Apr. 15.
Bow frog with improved hair clamping means. A. P. Lesinsky. 2,592,715, Apr. 15.
Box. M. H. Robin. 2,593,190, Apr. 15.
Bracelet connector. H. H. Harris. 2,592,690, Apr. 15.
Brake: *See*—
Inertia brake. Thread brake.
Brassière. F. A. Cohen. 2,592,792, Apr. 15.
Brooder and runs, Combined. H. Hoidredge. 2,593,029, Apr. 15.
Broom bridle. O. R. Grube. 2,593,140, Apr. 15.
Bucket liner, Metallic. H. D. Haley. 2,592,562, Apr. 15.
Burner equipment for rotary driers for aggregates. R. C. Hopkins. 2,592,899, Apr. 15.
Burning and disposal of furnace fly ash. G. P. Jackson. 2,592,701, Apr. 15.
Bust form. E. H. Bernhardt. 2,593,002, Apr. 15.
Butadiene monochlorohydrin, Production of. W. L. Towle. 2,592,977, Apr. 15.
Button loop forming mechanism. F. Adamo. 2,593,083, Apr. 15.
Cabinet: *See*—
Self-balancing cabinet.
Cable seal. J. Philipson. 2,592,949, Apr. 15.
Cable tension indicator. C. E. Cushman. 2,592,868, Apr. 15.
Camera adapter, Direct positive. G. P. Grant, Jr. 2,592,524, Apr. 15.
Camera, Panoramic. J. G. Baker. 2,593,088, Apr. 15.
Cane or walking stick, Sectional. G. A. Hawkins. 2,593,026, Apr. 15.
Canning of hard boiled eggs. R. D. Trelease, G. O. Sampson, and D. V. Alstrand. 2,593,223, Apr. 15.
Canopy construction. F. R. Thompson and W. D. Bell. 2,593,221, Apr. 15.
Cap remover, Pivoted lever crown. E. M. Sprich. 2,593,358, Apr. 15.
Car: *See*—
Shuttle car.
Carriage and bucket for inclinable booms. R. F. Lindow. 2,593,322, Apr. 15.
Carrier: *See*—
Bottle carrier. Mail carrier.
Carrier latch for firearms, Serrated. R. E. Clarkson. 2,592,858, Apr. 15.
Carton and box, Display. W. T. S. Hendrick. 2,593,143, Apr. 15.
Carton, Display. E. W. Fuerst. 2,592,678, Apr. 15.
Case: *See*—
Delivery case. Key case.
Cashew oil condensation and polymerization in the shell. C. T. Nemir. 2,592,588, Apr. 15.
Catalyst containing silica and alumina or magnesia or both, Preparation of. J. P. West. 2,592,775, Apr. 15.
Catalytic conversion with hydrofluoric acid. J. A. Ridgway, Jr. 2,592,740, Apr. 15.
Cathode-ray tube. W. H. Buchanan. 2,593,261, Apr. 15.
Cavity resonator. J. P. Kinzer. 2,593,155, Apr. 15.
Cavity resonator. I. G. Wilson. 2,593,234, Apr. 15.
Cavity resonator mode suppression means. H. B. Brehm. 2,593,095, Apr. 15.
Cellular rubber using amines, Making. J. H. Kelly, Jr. 2,592,708, Apr. 15.
Cellulose lower alkanoate plastic composition. E. J. Wickson and W. D. Paist. 2,592,776, Apr. 15.
Cement gun. A. F. Lukes. 2,592,815, Apr. 15.
Centering device for engine trucks. T. H. Ainsworth. 2,592,637, Apr. 15.
Centralized traffic control system of the code type for the control of interlocked track switches and railway signals. A. L. Jerome, L. V. Lewis, and F. T. Pascoe. 2,592,704, Apr. 15.
Centrifugal separating apparatus. R. J. Goldberg. 2,593,294, Apr. 15.
Centrifuge for separating a liquid from solid material. G. W. Edwards. 2,593,278, Apr. 15.
Chain: *See*—
Conveyer chain.
Chair: *See*—
Retracting type theater chair. Rocking chair.
Chair and idler roll stand assembly for conveyers. A. L. Lee. 2,592,915, Apr. 15.
Chassis supporting structure for vehicle lifts. E. Aron. 2,592,845, Apr. 15.
Chlorinated uncompacted polyethylene. R. S. Taylor. 2,592,763, Apr. 15.
Chromium-cellulose ether modified phenolic adhesives. C. N. Cone. 2,592,659, Apr. 15.
Circuit: *See*—
Asymmetrical cold cathode flip-flop circuit. Synchronized oscillator circuit.
Control circuit. Wide range high-frequency series-resonant tuning circuit.
Phase-shift circuit.
Regenerative frequency shifting and pulse shaping circuit.
Circuit control means. C. L. Stroup. 2,593,214, Apr. 15.
Circuit interrupter. W. M. Leeds, R. E. Friedrich, and F. J. Fry. 2,592,635, Apr. 15.
Clamp having opposite identical jaws, Tubing. C. J. Coberly. 2,592,791, Apr. 15.
Clamp structure for garment finishing machines or the like. N. C. Jackson. 2,592,903, Apr. 15.
Clamp support for standoff insulators. A. A. Flynn. 2,593,130, Apr. 15.
Clasp, Cravat. S. Grubman and S. Slansky. 2,593,298, Apr. 15.
Claw clutch. A. Moessinger. 2,592,819, Apr. 15.
Cleaner: *See*—
Barn gutter cleaner.
Cleaning machine, Power agitated parts. E. L. Chadwick. 2,592,857, Apr. 15.
Closure and closure operator for vehicle hoists. H. D. Smith. 2,593,209, Apr. 15.
Clothespin. N. J. Saunders. 2,593,201, Apr. 15.
Clutch: *See*—
Claw clutch.
Friction and positive clutch.
Clutch control. D. W. Kelbel. 2,592,576, Apr. 15.
Coagulating asbestos. S. E. Eaton and C. G. Harford. 2,593,125, Apr. 15.
Coagulation-resistant cream style corn and preparing the same. R. A. Whitmore and F. D. Hickey. 2,592,988, Apr. 15.
Cold cathode gaseous discharge device. C. J. Craft, 3rd. 2,593,109, Apr. 15.
Collapsible saw frame. H. A. Magnussen and E. Johansen. 2,593,323, Apr. 15.
Collet chuck. E. L. Devis and C. E. Unkefer. 2,592,794, Apr. 15.
Color photography. J. H. Coote and K. M. Hornsby. 2,592,864, Apr. 15.
Colostomy container guard. H. E. Smith. 2,593,211, Apr. 15.
Colostomy guard. H. E. Smith. 2,593,210, Apr. 15.
Comb cleaning device. H. Sand. 2,593,200, Apr. 15.
Comber. J. S. Dudley and C. D. Brandt. 2,593,017, Apr. 15.
Combination weld cleaning and chipping tool. J. W. Bowers. 2,592,648, Apr. 15.
Combustible gas, Manufacture of. W. W. Odell. 2,592,591, Apr. 15.
Compass compensation. A. A. Stuart, Jr. 2,593,070, Apr. 15.
Compensating brake cam follower. L. R. Buckendale. 2,592,536, Apr. 15.
Composite fire door. H. W. Paul and E. C. Shuman. 2,593,050, Apr. 15.
Compositions containing finely divided metallic silver, Production of. H. G. Dickenson, K. T. Chapman, and P. P. Hopf. 2,592,870, Apr. 15.
Computing device. F. W. Smith. 2,592,965, Apr. 15.
Concentrating or purifying carbon monoxide occurring in admixture with other gases. K. M. Watson. 2,593,232, Apr. 15.
Concrete reinforcement anchorage. A. C. Grivel and A. H. Pilling. 2,593,022, Apr. 15.
Concrete roadway finishing machine. C. G. Schulze. 2,592,960, Apr. 15.
Concrete slab wall joint. J. H. Wilson. 2,592,634, Apr. 15.
Concrete step form. F. Kogl. 2,592,578, Apr. 15.
Condensing lower alcohols to higher alcohols. A. Clark and F. E. Condon. 2,593,009, Apr. 15.
Conditioning and granulating finely divided materials. J. I. McAskill. 2,593,326, Apr. 15.
Confection making apparatus. H. E. Bianchi. 2,592,534, Apr. 15.
Connector: *See*—
Bracelet connector. Monoblock connector.
Contacting solid particles with gaseous fluids. H. J. Ogorzaly. 2,593,338, Apr. 15.
Container: *See*—
Display container. Suspension liquid gas container.
Novelty container.
Container. C. B. Pike. 2,592,734, Apr. 15.

Container feed mechanism. T. B. Keesling. 2,592,909, Apr. 15.
Container for artists' materials. G. K. Gombarts. 2,593,138, Apr. 15.
Container for desiccant material. R. R. Gannon. 2,593,132, Apr. 15.
Container with dispensing and filling openings for liquids, Paper. R. F. Glaser. 2,593,019, Apr. 15.
Continuous flow oxygen regulator. J. A. Sneller. 2,592,830, Apr. 15.
Control apparatus for telephone systems. E. W. Breisch and G. W. McKenna. 2,592,650, Apr. 15.
Control circuit. A. M. Seybold. 2,593,350, Apr. 15.
Control device for change-speed gears. J. A. Gregoire. 2,593,297, Apr. 15.
Control means for power transmission. E. A. Weiss, L. H. Frailing, and R. P. Clifton. 2,592,773, Apr. 15.
Control mechanism. C. W. Fischer. 2,593,129, Apr. 15.
Control mechanism for marine engines. J. F. Morse. 2,593,170, Apr. 15.
Convertible cleaning machine for automobile cooling systems and automobile parts. A. J. Boyer. 2,593,256, Apr. 15.
Conveyor chain. T. C. Mann. 2,593,324, Apr. 15.
Conveyor, Switching type. W. Bacon and K. H. Hansen. 2,593,242, Apr. 15.
Cooking liquor treatment. J. M. Kahn. 2,592,907, Apr. 15.
Cooling system for electron tubes and other devices. W. E. Brown. 2,593,260, Apr. 15.
Cop winding machine with bunch builder. W. Siegenthaler. 2,593,354, Apr. 15.
Corn milling test. M. M. MacMasters, P. Baird, and C. E. Rist. 2,592,585, Apr. 15.
Corsage pin. J. H. Lucier. 2,592,922, Apr. 15.
Coupling: *See*—
Antiskid chain coupling.
Coupling and torque measuring device, Elastic. R. Doussain. 2,592,796, Apr. 15.
Coupling for jack attachments and extensions. T. M. Porter. 2,593,342, Apr. 15.
Coupling pin lock for trailer hitches. A. E. Benteman. 2,593,247, Apr. 15.
Cover panels for vehicles, especially railway cars. A. G. Dean. 2,592,545, Apr. 15.
Crash curtain for motor vehicles, Automatic. A. B. Joncas. 2,592,573, Apr. 15.
Crate for livestock, Shipping. A. O. Manger and E. A. Tomlin, Jr. 2,593,161, Apr. 15.
Cultivator, Floating. D. W. Fitzwater. 2,593,289, Apr. 15.
Cultivator, Tractor. J. S. Goodell. 2,593,021, Apr. 15.
Cultivator, Tractor. W. H. Hendrick. 2,593,028, Apr. 15.
Cupola furnace. O. C. Hoover and J. A. Boren. 2,593,303, Apr. 15.
Curler, Hair. A. Teopilian. 2,592,764, Apr. 15.
Current production, sales, inventory, or like indicator. G. P. Sanderson. 2,593,348, Apr. 15.
Current supply apparatus. J. R. Stone. 2,592,615, Apr. 15.
Cutter: *See*—
Stalk cutter. Tape cutter.
Cutting oil concentrate and making same. F. Veatch and J. G. Partch. 2,592,624, Apr. 15.
Cylinder piston structure. E. A. Rockwell. 2,593,055, Apr. 15.
Dedusting soap and the resulting product. J. W. Bodman. 2,592,535, Apr. 15.
Deep-well pump. F. E. Dunn. 2,592,547, Apr. 15.
Defective crate detector and ejector. A. C. Davis. 2,593,119, Apr. 15.
Dehydrogenation of hydrocarbons. C. L. Thomas and J. C. Morrell. 2,592,765, Apr. 15.
Delayed pulse generator. H. Simon and J. P. Gleason. 2,592,611, Apr. 15.
Delivery Case. E. R. Erickson. 2,592,797, Apr. 15.
Δ7,9-androstadienes and preparing the same. S. Bernstein and D. J. Giancola. 2,593,249, Apr. 15.
Dermasector. S. G. Berkow. 2,592,533, Apr. 15.
Derrick, Portable. E. A. Bender. 2,593,246, Apr. 15.
Desk pad. S. Segal. 2,592,828, Apr. 15.
Device for cold shaping hollow articles. P. Cuq. 2,592,867, Apr. 15.
Device for filling receptacles with cylindrical articles. G. Bardet. 2,592,642, Apr. 15.
Device for holding outboard motors to boats. R. H. Mabee. 2,592,925, Apr. 15.
Device for imparting predetermined cyclic displacements to a machine-tool member and the like. A. M. Le Lan. 2,592,812, Apr. 15.
Device for locating picture plates in succession so as to be substantially normal to the light path of lighting apparatus. P. M. van Alphen. 2,593,076, Apr. 15.
Device for slicing dough. J. O. Cierley. 2,592,657, Apr. 15.
Device for the fully automatic machining of surfaces of leaflike works. A. Thalmann. 2,593,363, Apr. 15.
Dilator for clogged teats. V. Gariepy. 2,592,800, Apr. 15.
Dimpling machine, Automatic. H. R. Fischer. 2,592,672, Apr. 15.
Diphenyl sulfone, Manufacture of a. H. Bender and H. M. Pitt. 2,593,001, Apr. 15.
Dishwasher. G. B. Fox and J. M. Sherman. 2,592,884, Apr. 15.
Disinfectant injector for dishwashers. G. B. Fox and J. M. Sherman. 2,592,886, Apr. 15.
Disintegrating or removing metallic material. H. V. Harding. 2,592,894, Apr. 15.
Disk harrow angling link. C. H. White. 2,592,987, Apr. 15.
Dispenser: *See*—
Adhesive tape dispenser. Roll material dispenser.
Dispenser with register having dispensing means operative only after a time interval elapses following completed zero setting of register, Liquid. R. R. Trexler. 2,592,622, Apr. 15.
Dispensing machine. F. O. Johnson. 2,593,151, Apr. 15.
Dispensing mechanism. R. G. Birr. 2,592,786, Apr. 15.
Display container. H. L. Myers. 2,593,333, Apr. 15.
Display devices for fur scarves. C. W. Paul. 2,593,049, Apr. 15.
Disposable urinal with liquid trap. M. S. Pearcy. 2,593,051, Apr. 15.
Distributor rotor. B. H. Short and J. T. Fitzsimmons. 2,593,205, Apr. 15.
Dockboard. M. Loomis and W. M. Sanderson. 2,592,919, Apr. 15.
Doctor blade mechanism. R. R. Richardson and W. H. Edmondson. 2,593,334, Apr. 15.
Doll, Dancing. O. V. Dyer. 2,592,669, Apr. 15.
Doll, Walking. M. Riechelson. 2,593,187, Apr. 15.
Door: *See*—
Composite fire door.
Door-actuated mailbox signal. T. F. Gensmer. 2,592,555, Apr. 15.
Doorknob spindle releasing means. R. C. Cerf, Jr. 2,593,264, Apr. 15.
Door latching and locking unit. H. H. Welsh and G. A. Besaw. 2,592,774, Apr. 15.
Door sealing structure. W. A. Close. 2,592,861, Apr. 15.
Door with slat therefor having windows, Rolling. R. H. Greegor. 2,592,888, Apr. 15.
Draft device for increasing the loading on tractor wheels. J. L. O'Neill. 2,592,592, Apr. 15.
Drapery control unit. W. L. Carter. 2,593,263, Apr. 15.
Drier. M. M. Hurst. 2,592,902, Apr. 15.
Drill. V. S. Karbowski. 2,593,035, Apr. 15.
Drill bit. H. W. Wallace. 2,593,229, Apr. 15.
Drilling gauge. M. O. Ellington. 2,592,877, Apr. 15.
Drop forged and welded brake head. L. L. Whitney. 2,593,374, Apr. 15.
Dustproof leveling screw. W. D. Moore. 2,592,942, Apr. 15.
Edger for rug weaving machines. T. Nolte. 2,592,723, Apr. 15.
Eductor device. S. A. Hayes. 2,592,896, Apr. 15.
Egg crate lid. E. J. Dedman. 2,592,869, Apr. 15.
Electric coil. I. C. McKechnie. 2,592,817, Apr. 15.
Electric incandescent lamp. G. Riccomagno. 2,592,823, Apr. 15.
Electric iron. M. A. Rollman. 2,593,194, Apr. 15.
Electric method and system for measuring impedance magnitude and phase angle. L. E. Packard and H. H. Scott. 2,593,175, Apr. 15.
Electrical inductor. A. E. Harrold. 2,592,802, Apr. 15.
Electrical instruction board. L. De Florez and D. K. Morrison. 2,592,552, Apr. 15.
Electrically actuated closure operator. H. H. Hall. 2,592,891, Apr. 15.
Electrically controlled system and automatic machine for repetition work. G. M. Vale. 2,592,979, Apr. 15.
Electrically heated toilet seat. L. P. Baggett. 2,593,087, Apr. 15.
Electrolytic production of fatty acids. W. H. Groombridge and W. Hunter. 2,192,686, Apr. 15.
Electrolytically processing metallic articles. J. B. Kushner. 2,592,810, Apr. 15.
Electronic displacement measuring means. H. J. Osterman, A. G. K. Wilkens and C. B. Bryan. 2,593,339, Apr. 15.
Electronic inspection of glass containers. W. J. Fedorchak. 2,593,127, Apr. 15.
Electronically controlled low impedance phase shifting device. S. R. Rich. 2,592,738, Apr. 15.
Emulsifying agents. J. M. Cross and C. R. Enyeart. 2,593,112, Apr. 15.
Endless track. G. W. Curtis. 2,592,542, Apr. 15.
Engine starter gearing. D. L. Miller. 2,593,167, Apr. 15.
Etching apparatus. R. F. Hayms. 2,592,693, Apr. 15.
Etching ethylene diamine tartrate crystals. E. S. Pennell. 2,592,729, Apr. 15.
Ethylene oxidation and silver on magnetite as catalyst therefor. F. W. Lamb. 2,593,156, Apr. 15.
Ethylidene bis-(allyl adipate) and other acylals. C. D. Hurd. 2,592,901, Apr. 15.
Ethylxanthoylthioxy-dipiperidylphosphine sulfide. H. Tolkmith. 2,592,621, Apr. 15.
Ethylxanthoylthioxy-piperidyl-cyanophosphine oxide. H. Tolkmith. 2,592,620, Apr. 15.
Extensible bolster roll. V. M. Sage and I. C. Plant. 2,593,056, Apr. 15.
Extensible gate lock. W. Saber. 2,592,956, Apr. 15.
Extractor: *See*—
Staple extractor.
Extrusion head for molding synthetic resins. R. Colombo. 2,592,658.

Eye-stay assembly for fabric fastening. L. Markin. 2,593,162, Apr. 15.
Fan wheel. R. B. Beranek. 2,592,851, Apr. 15.
Fastener: *See*—
Upholstery tuft fastener.
Fastener. J. A. C. Silberman. 2,593,064, Apr. 15.
Feeder: *See*—
Adjustable apron feeder. Sheet feeder.
Feeder and impression cylinder control for printing presses. J. F. Banthin. 2,592,998, Apr. 15.
Feeder for livestock or poultry. H. A. Andrew. 2,592,638, Apr. 15.
Fermentation process. Herman and Henry Knaust. 2,592,711, Apr. 15.
Filling device for electric storage batteries. J. Rule. 2,592,743, Apr. 15.
Filter: *See*—
Oil filter.
Filter. F. J. Armstrong. 2,592,527, Apr. 15.
Filter. R. A. Bailey. 2,592,849, Apr. 15.
Filter. E. A. Fallmegger. 2,592,528, Apr. 15.
Filter. F. W. Strassheim. 2,592,972, Apr. 15.
Filter. P. H. Wagner. 2,593,228, Apr. 15.
Filter using magnetostrictive rings. E. E. Mott. 2,592,721, Apr. 15.
Fire control pilot. C. R. Bowland and L. H. Crick, Jr. 2,593,004, Apr. 15.
Fish bait. W. W. Thompson and G. F. Whitston. 2,593,220, Apr. 15.
Fishhook, Automatic. A. F. Pamer. 2,592,727, Apr. 15.
Fish lure. I. Heino. 2,593,027, Apr. 15.
Fishing line spreader. G. N. Ristine. 2,592,741, Apr. 15.
Fishing pole holder. P. A. Halfpap and E. P. McDermott. 2,592,688, Apr. 15.
Fishing reel. M. Maroshick. 2,593,045, Apr. 15.
Fishing reel seat. R. J. Esposito. 2,592,878, Apr. 15.
Fishing sinker. W. L. Snapps. 2,592,967, Apr. 15.
Fishing tackle. A. C. De Mello. 2,592,664, Apr. 15.
Fixture for machine tools. E. E. Powell. 2,592,821, Apr. 15.
Flash removing apparatus. R. Bailis. 2,592,640, Apr. 15.
Flexible abrasive articles, Making. N. P. Robie. 2,592,954, Apr. 15.
Flexible pressure-sensitive adhesive products. E. W. Engel, E. J. Giolito, J. A. McGarry, V. N. Morris, and C. L. Weidner. 2,592,550, Apr. 15.
Flight training apparatus. C. W. Soule. 2,592,968, Apr. 15.
Flow control device. E. J. Kraft. 2,593,315, Apr. 15.
Flow proportioning apparatus. W. E. Remick. 2,593,185, Apr. 15.
Fluid-actuated servomotor control valve system. G. T. Randol. 2,592,600, Apr. 15.
Fluid pressure control mechanism. R. H. Casler. 2,593,103, Apr. 15.
Fluid pressure measuring apparatus. J. H. Moore. 2,593,169, Apr. 15.
Fluorometer for measurement of fluorescence of uneven surfaces. E. E. Bray. 2,593,391, Apr. 15.
Flushing cistern. B. Schrage, J. Wijsman, and H. van den Steenhoven. 2,593,061, Apr. 15.
Flywheel housing. O. E. Glover. 2,593,020, Apr. 15.
Foamed gypsum composition. F. L. Chappell, Jr. 2,593,008, Apr. 15.
Folder for perforated tape. C. A. Tincher. 2,592,766, Apr. 15.
Folding table. A. Wessig. 2,592,839, Apr. 15.
Folding top for convertibles having an automatic seal at the rear quarter. K. E. Coppock and J. D. Compton. 2,593,107, Apr. 15.
Footstool, ladder, seat, and storage chest, Combination. E. J. Knipper. 2,592,912, Apr. 15.
Forming a seam for uniting plies of sheet material. F. J. Bartoss. 2,593,090, Apr. 15.
Forming markings in tubular braided covers for vacuum cleaner tubes. E. Handel. 2,592,892, Apr. 15.
Formylating and reducing nonalpha tocopherols. L. Weisler. 2,592,629, Apr. 15.
Formylating tocopherol material. J. G. Baxter. 2,592,531, Apr. 15.
Formylating tocopherol material. L. Weisler. 2,592,630, Apr. 15.
Fractionation of dibasic acids. A. I. Smith. 2,592,964, Apr. 15.
Frame: *See*—
Collapsible saw frame. Ventilator window frame.
Frequency difference indicator. A. Rutenberg. 2,592,825, Apr. 15.
Friction and positive clutch. T. Hindmarch. 2,592,695, Apr. 15.
Friction shock absorber for railway car trucks. V. S. Danielson. 2,592,661, Apr. 15.
Friction shock absorbing mechanism for railway car draft riggings. G. E. Dath and A. G. Peterson. 2,592,663, Apr. 15.
Friction shock absorbing mechanism for railway cars. G. E. Dath and A. G. Peterson. 2,592,662, Apr. 15.
Friction shock absorbing mechanism for railway cars. A. G. Peterson. 2,592,731, Apr. 15.
Friction shock absorbing mechanisms for draft riggings of railway cars. A. G. Peterson. 2,592,732, Apr. 15.
Frier, Electric deep fat. S. J. Budlane and R. Dusek. 2,593,392, Apr. 15.
Fuel feeder for flame ring burners, Rotary. W. J. Smith, Jr. 2,592,612, Apr. 15.
Furnace: *See*—
Cupola furnace.
Furnace and burner therefor, Gas-producing. R. C. Perkins. 2,592,730, Apr. 15.
Furniture, Article of. W. L. Clifton. 2,593,270, Apr. 15.
Furniture unit, Foldable. B. Levitin, J. G. Brown, I. W. and M. B. Peeples. 2,593,319, Apr. 15.
Game, Boxing. C. L. Hubbard. 2,593,147, Apr. 15.
Garment, Inner and outer combined bifurcated. J. Deutsch and E. Simon. 2,592,665, Apr. 15.
Garment, Lady's sleeveless. C. G. Schnurer. 2,593,059, Apr. 15.
Gas burner and sectional hearth. P. Ketelsen. 2,592,911, Apr. 15.
Gas cleaning apparatus. H. A. Wintermute. 2,593,377, Apr. 15.
Gas turbine engine associated with a gas producer under pressure. M. H. L. Sédille and P. H. Ménard. 2,592,749, Apr. 15.
Gaseous-discharge device. K. J. Germeshausen. 2,592,556, Apr. 15.
Gate: *See*—
Adjustable width gate. Automatic gate.
Gate latch. C. E. Dole. 2,592,871, Apr. 15.
Gate moving means for vehicles. W. C. Anthony and L. W. Wachter. 2,593,240, Apr. 15.
Gate operator. G. D. Wueste. 2,593,379, Apr. 15.
Gauge: *See*—
Drilling gauge. Measuring gauge.
Liqu'd level gauge. Parallel wedge gauge.
Liquid level tank gauge. Wedge parallel gauge.
Gauge for oil drums, Oil. A. Neumann. 2,593,172, Apr. 15.
Gauge having pivoted jaws, Snap-ring. P. W. Johnson. 2,593,309, Apr. 15.
Generator: *See*—
Delayed pulse generator.
Generator armature test. F. J. Foust, O. W. Childress, Jr., D. O. Crim, and R. A. Thompson. 2,593,131, Apr. 15.
Golf club, Adjustable. J. Verderber. 2,593,368, Apr. 15.
Golf-tee holder. A. Lynskey. 2,593,042, Apr. 15.
Grading copper for use in copper oxide rectifiers. H. L. Taylor. 2,592,975, Apr. 15.
Graphic indicator responsive to a plurality of conditions in a continuous processing system. E. Utterback, W. A. Hagerbaumer, and R. E. Dooley. 2,593,224, Apr. 15.
Grid-controlled electron tube. A. H. Mankin and D. E. Sunstein. 2,593,044, Apr. 15.
Grinder, Bench. J. E. Bernard, Jr. 2,592,785, Apr. 15.
Grinding by the use of grinding bodies subjected to centrifugal force. Method and apparatus for. N. Ahlmann. 2,592,994, Apr. 15.
Gun loading mechanism. C. F. Brereton. 2,592,790, Apr. 15.
Gyroscope. J. W. Barnes. 2,592,643, Apr. 15.
Hair clipper guide. C. W. Monyhan. 2,593,168, Apr. 15.
Halogen-containing resins stabilized with polymeric organo-tin dialkoxides. G. P. Mack and E. Parker. 2,592,926, Apr. 15.
Handle for model airplanes, Control. H. Stewart. 2,592,971, Apr. 15.
Handle means and support structure for power lawn mowers. C. E. Brockman. 2,592,856, Apr. 15.
Harness control. A. Moessinger. 2,592,820, Apr. 15.
Harvesting machine with coupling mechanism to a tractor. J. M. Martin. 2,592,928, Apr. 15.
Hat construction, Novelty. N. Rikelman. 2,593,188, Apr. 15.
Heat exchange core. S. Przyborowski. 2,592,950, Apr. 15.
Heater: *See*—
Water heater.
Heater. T. H. Sherman. 2,592,608, Apr. 15.
Heating and ventilating system. L. E. Blue. 2,593,094, Apr. 15.
Heating system, Hot-water. G. Frenger. 2,592,887, Apr. 15.
Hernia support. J. Calabrese. 2,593,262, Apr. 15.
High-frequency apparatus. P. L. Spencer. 2,593,067, Apr. 15.
High-pressure diaphragm pump. G. F. Bowman. 2,593,255, Apr. 15.
High-pressure faucet type valve. J. Roberts. 2,592,953, Apr. 15.
Hive tool. W. H. Howard. 2,593,304, Apr. 15.
Hoe, Rotary hand. R. L. Phipps. 2,593,341, Apr. 15.
Holder: *See*—
Fishing pole holder. Toilet paper holder.
Golf-tee holder. Tree holder.
Scissors type cigarette holder.
Hook: *See*—
Spring actuated slide snap hook.
Hubcap. P. Dandurand. 2,593,274, Apr. 15.
Hydraulic agitator. D. M. Jackson. 2,592,904, Apr. 15.
Hydraulic control valve. N. Fenger. 2,592,798, Apr. 15.
Hydraulic screening. A. Searles. 2,592,605, Apr. 15.
Hydraulic torque indicator. F. B. Bayless. 2,593,000, Apr. 15.
Hydrocarbon gas detector. C. Tiffany. 2,592,834, Apr. 15.
Hydrocarbon synthesis. J. F. Black and K. K. Kearby. 2,593,250, Apr. 15.

Hydrostatic pressure testing device for bottles and the like. J. M. Walling. 2,592,984, Apr. 15.
Idler rollers, Making one-piece. W. C. Steinmetz. 2,593,069, Apr. 15.
Igniting device. E. A. Randall. 2,592,951, Apr. 15.
Impedance meter. W. Selove. 2,592,750, Apr. 15.
Implement, Crown cap removing and retaining. J. Belpedio. 2,593,091, Apr. 15.
Implement draft connection. W. J. Coultas and R. L. Dort. 2,592,866, Apr. 15.
Inclined melter furnace and melting glass. R. R. Rough. 2,593,197, Apr. 15.
Indicator: *See*—
Cable tension indicator. Frequency difference indicator.
Current production, sales, inventory, or like indicator. Hydraulic torque indicator.
Liquid level indicator.
Inertia brake. P. Serednicky and G. T. Jarrett. 2,592,751, Apr. 15.
Inhibitors against hydrogen sulfide and brine corrosion. M. G. Savoy. 2,593,057, Apr. 15.
Inner tube for pneumatic tires and making. W. F. O'Neil. 2,592,724, Apr. 15.
Instrument, Obstetrical. A. L. Schofield. 2,592,959, Apr. 15.
Instrument, Rebalancing indicating. J. F. Shannon. 2,593,351, Apr. 15.
Instrument, Surgical. T. Wilkes. 2,592,778, Apr. 15.
Instrument, Visual celestial navigation. F. H. Hagner. 2,593,141, Apr. 15.
Instrument, Writing. J. F. Thull. 2,593,366, Apr. 15.
Insulator supporting pin and cob. D. C. Hubbard. 2,592,698, Apr. 15.
Iron: *See*—
Electric iron.
Iron oxide from ferrous chloride, Preparing. H. Loevenstein. 2,592,580, Apr. 15.
Irrigating apparatus, Portable. I. Grumbles. 2,593,299, Apr. 15.
Isolation of Chlorosulfonated polymers of ethylene from solution. J. L. Ludlow. 2,592,814, Apr. 15.
Jet engine with compressor driven by rotating jets which exhaust into thrust augmenting duct. W. K. McNaught. 2,592,938, Apr. 15.
Joint: *See*—
Concrete slab wall joint.
Joint. J. H. Booth. 2,593,253, Apr. 15.
Joint structure for pivoted tools. E. Balderstone. 2,592,641, Apr. 15.
Key case. R. W. Holmgren. 2,593,030, Apr. 15.
Keyed automatic gain control. A. Cotsworth, III. 2,593,011, Apr. 15.
Knitting elastic fabric. N. H. Smith. 2,592,966, Apr. 15.
Knitting machine for production of run-resistant knitted fabric, Straight bar. L. Brown and J. E. Lynam. 2,593,006, Apr. 15.
Knockdown stand. P. Vogt. 2,593,077, Apr. 15.
Laminated paper containing activated carbon. F. Howard. 2,593,146, Apr. 15.
Lamp: *See*—
Electric incandescent lamp.
Lamp shade having shade material secured to frame by means of stiff but flexible strips. B. J. Cohon. 2,593,272, Apr. 15.
Lamp with adjustable light deflector, Decorative table. L. Secrist. 2,592,962, Apr. 15.
Lashing machine for aerial cables. D. J. Neale. 2,592,943, Apr. 15.
Latch: *See*—
Adjustable safety latch. Gate latch.
Latex impregnated luffa and preparing the same. H. N. Schumann. 2,592,747, Apr. 15.
Lathe. J. E. Lovely and R. M. Gamble. 2,592,920, Apr. 15.
Lawn mower. S. Sherrow. 2,592,963, Apr. 15.
Leather finishing. A. F. R. Cotton. 2,593,108, Apr. 15.
Lid support. J. W. Joseph. 2,593,312, Apr. 15.
Light for insertion in the hull of boats, Adjustable. J. F. Morse. 2,593,171, Apr. 15.
Light stable phenolic syntans. D. E. Nagy. 2,592,587, Apr. 15.
Lighter, Pyrophoric. E. Wedemeyer. 2,592,837, Apr. 15.
Lighter, Wrist cigarette or cigar. M. E. Sieber. 2,593,063, Apr. 15.
Lightning protector device. R. D. Nelson and E. A. Link. 2,593,393, Apr. 15.
Liquid level control means. W. S. Landon. 2,592,913, Apr. 15.
Liquid level gauge. J. C. Matchett. 2,592,929, Apr. 15.
Liquid level indicator. C. J. Ryant, Jr. 2,592,744, Apr. 15.
Liquid level tank gauge. R. E. Shannon. 2,593,062, Apr. 15.
Load bracing means. E. T. Doherty. 2,592,666, Apr. 15.
Load pointer for weighing scales. W. L. Schrader. 2,593,060, Apr. 15.
Load releasing device. E. Knerem. 2,592,577, Apr. 15.
Loading and unloading device. E. J. Adams. 2,592,993, Apr. 15.
Loading mechanism for pneumatic guns. W. S. Wells. 2,592,838, Apr. 15.
Lock: *See*—
Extensible gate lock. Window sash lock.
Locking mechanism for a differential. L. Dufour. 2,592,668, Apr. 15.
Locking mechanism for vehicle doors. J. J. Black. 2,592,647, Apr. 15.
Locomotive structure, Railway. H. M. Pflager. 2,592,733, Apr. 15.
Loud-speaker. G. N. Howatt. 2,593,031, Apr. 15.
Machine for constricting tubes. O. F. A. Biginelli. 2,592,593, Apr. 15.
Machine for cutting webs of material into strips. D. N. Judelson. 2,593,154, Apr. 15.
Machine for erecting collapsed cartons. J. V. Ferraro. 2,592,880, Apr. 15.
Machine for striping electric conductors. R. A. Donnan. 2,592,667, Apr. 15.
Machine for the coating of webs of material. A. R. Trist. 2,593,074, Apr. 15.
Machine for the manufacture of run-resistant knitted fabric. J. E. Lynam and L. Brown. 2,593,041, Apr. 15.
Machine tool. E. M. Bowen and A. W. Johnson. 2,593,254, Apr. 15.
Machine tool control. C. Johnson. 2,593,310, Apr. 15.
Machine tool slide bearing. J. M. Walter. 2,593,230, Apr. 15.
Magnesia, Producing. C. N. Kimberlin, Jr. 2,593,314, Apr. 15.
Magnesium oxide-barium oxide silver catalyst support and process using the same. G. Calingaert. 2,593,099, Apr. 15.
Magnetic transducer head. F. G. Buhrendorf. 2,592,652, Apr. 15.
Mailbox flag, Auxiliary. E. C. Esten. 2,592,671, Apr. 15.
Mail carrier. W. Helberg. 2,592,898, Apr. 15.
Marking device. I. S. Gottscho and K. H. Kuett. 2,592,558, Apr. 15.
Mason's line block. C. E. Mann. 2,592,717, Apr. 15.
Material collecting apparatus. L. N. Bonacci and A. Z. Hahn. 2,593,251, Apr. 15.
Material folding machine. G. A. Anderson and C. I. Kane. 2,593,085, Apr. 15.
Measuring device, Foot. J. S. Digate. 2,593,385, Apr. 15.
Measuring gauge. R. E. Bauer. 2,592,840, Apr. 15.
Mechanical interlocking mechanism for switches. J. T. Fisher. 2,593,288, Apr. 15.
Medical examination drape. P. I. Djorup. 2,593,121, Apr. 15.
Metabolism apparatus for measuring oxygen consumption during respiration. J. A. Heidbrink. 2,592,694, Apr. 15.
Metal window construction. D. T. Bjork. 2,593,093, Apr. 15.
Meter: *See*—
Impedance meter. Recording tide current meter.
Parking meter.
Method of and apparatus for washing dishes. G. B. Fox and J. M. Sherman. 2,592,885, Apr. 15.
Mining machine. A. Anderson. 2,592,996, Apr. 15.
Mitten. H. Woller-Duff. 2,593,378, Apr. 15.
Mixer and circuits therefor, Vacuum-tube. M. A. H. El-Said. 2,593,281, Apr. 15.
Mixing and homogenising apparatus. W. R. Kinnaird. 2,592,709, Apr. 15.
Monoblock connector. E. C. Quackenbush. 2,593,182, Apr. 15.
Motor for gyroscopes, Torque. J. E. Lundberg and H. G. Swanson. 2,592,582, Apr. 15.
Motor mount for carding machines, Adjustable. C. F. Earnhardt. 2,592,670, Apr. 15.
Mounting: *See*—
Alligator shear blade mounting. Tool bar mounting.
Mounting for drawing rolls. C. R. McGhee. 2,592,718, Apr. 15.
Multiple garment rack. C. V. Smith. 2,593,356, Apr. 15.
Multiple switch. F. A. Talbot. 2,593,072, Apr. 15.
Multiplex telemetric system. F. N. Reynolds, Jr., S. Zechtzer, and M. V. Kiebert, Jr. 2,592,737, Apr. 15.
Multistage crystallization process. K. H. Hachmuth. 2,593,300, Apr. 15.
Needle cooling device for sewing machines. L. J. Schwarts. 2,593,203, Apr. 15.
Nitronegous fertilizer compositions, Preparation of. R. D. Kralovec and R. L. Huffman. 2,592,809, Apr. 15.
Nonflooding underfloor airheating furnace with auxiliary exterior airinlet. W. C. Coleman. 2,592,662, Apr. 15.
Noose releasing honda. E. A. Hoody. 2,592,696, Apr. 15.
Nose tattooing device for cattle. C. S. Crane and R. A. Dove. 2,593,110, Apr. 15.
Novelty container. M. E. Hattenbach. 2,592,692, Apr. 15.
Nozzle. O. Brusdal. 2,593,096, Apr. 15.
Nozzle for the ejection of fluid streams. W. W. Spooner. 2,593,357, Apr. 15.
Nozzle height adjusting mechanism for vacuum cleaners. E. P. Turner. 2,592,767, Apr. 15.
Nozzle, Lubricating. W. J. du Pont. 2,592,874, Apr. 15.
O-ethyl S-(ethylxanthoyl) piperidyl thiophosphate. H. Tolkmith. 2,592,619, Apr. 15.
Object motion indicating system. D. E. Sunstein and A. H. Mankin. 2,593,071, Apr. 15.

Obtaining chlorine and chromium containing materials. T. S. Perrin. 2,592,598, Apr. 15.
Oil burner safety control system. P. Schell. 2,592,827, Apr. 15.
Oil filter. P. H. Wagner. 2,593,227, Apr. 15.
Oil seal structure. H. O. Thomas. 2,593,219, Apr. 15.
Oil vaporizer. H. H. M. Mayer. 2,593,166, Apr. 15.
Oil well flowmeter. C. H. Fay and M. Stephenson. 2,593,285, Apr. 15.
Oiling system for presses, Continuous. J. C. Danly. 2,593,115, Apr. 15.
Opener, Can. R. E. McLean. 2,592,933–7, Apr. 15.
Opener, Can. A. W. Miller. 2,593,329, Apr. 15.
Opener, Can. E. L. Verhagen. 2,593,390, Apr. 15.
Opener, Envelope. F. C. Iffland. 2,592,699, Apr. 15.
Operating Control. G. J. Mucher. 2,593,332, Apr. 15.
Optical angle measuring apparatus. J. Dauber. 2,592,543, Apr. 15.
Optical system and film guide means for cameras, projectors, and the like. H. Rinia, P. M. van Alphen, F. L. van Weenen, L. M. Lambert, J. Leblans, and A. Bouwers. 2,593,189, Apr. 15.
Organic peroxides as promoters for silver oxidation catalysts and process using the same. W. E. Burt. 2,593,098, Apr. 15.
Organo siloxanes and their production. J. T. Goodwin, Jr. 2,592,682, Apr. 15.
Organotin compounds and compositions containing the same. J. M. Church, E. W. Johnson, and H. E. Ramsden. 2,593,267, Apr. 15.
Ornamental fixture. R. S. Grimshaw. 2,592,684, Apr. 15.
Oscillator for receivers, Beat frequency. C. G. Seright and H. F. Baker. 2,593,349, Apr. 15.
Oscillator, Variable frequency relaxation. M. E. Mohr. 2,593,330, Apr. 15.
Outboard motor starting device. D. A. Armstrong and H. K. Palmer. 2,592,639, Apr. 15.
Oven. C. C. White. 2,593,233, Apr. 15.
Oven, Baking. E. M. Crosland. 2,593,273, Apr. 15.
Oxyalkylated derivatives of certain allyl polymers. M. De Groote. 2,593,276, Apr. 15.
Oxygen administration. A. E. McKee. 2,593,046, Apr. 15.
Pad: *See*—
Desk pad.
Panel crating structure. L. W. Johnson and H. W. Pottle. 2,593,152, Apr. 15.
Parallel wedge gauge. D. E. Stainton. 2,592,757, Apr. 15.
Parking device, Vehicle attached. T. F. and F. C. Hall. 2,593,024, Apr. 15.
Parking meter. D. C. Rockola. 2,593,191, Apr. 15.
Partition structure and making it. F. D. Bergstein. 2,593,092, Apr. 15.
Pawl mechanism and assembly. W. L. Vervest and G. van Gelder. 2,593,226, Apr. 15.
Peanut harvesting apparatus. H. W. Beaver. 2,593,383, Apr. 15.
Pebble heating chamber. S. P. Robinson. 2,593,345, Apr. 15.
Pen, Ball point. J. F. Thull. 2,593,365, Apr. 15.
Pen, Fountain. F. D. Woods. 2,593,082, Apr. 15.
Pentaerythrityl phosphoric acid esters of cellulose and making the same. G. C. Daul and J. D. Reid. 2,592,544, Apr. 15.
Perforated multiple ply bag. J. W. Meaker. 2,593,328, Apr. 15.
Permanent dunnage. T. O'Dell. 2,593,174, Apr. 15.
Pest destroyer, Electrical. R. D. and E. E. Canfield. 2,592,654, Apr. 15.
Phase-shift circuit. W. H. Elliot. 2,593,280, Apr. 15.
Photo and photo-transparency enlarging device. H. A. Lehmann. 2,593,318, Apr. 15.
Photoengraving. A. E. Dirkman. 2,592,546, Apr. 15.
Photographic projection printing mechanism. P. S. Pirmov. 2,592,735, Apr. 15.
Picture frame with variable display areas. G. Rosenberg and L. Spiselman. 2,593,195, Apr. 15.
Pier, Portable. I. J. Wanless. 2,592,626, Apr. 15.
Pin: *See*—
Corsage pin.
Pipe: *See*—
Sanitary smoking pipe. Tobacco pipe.
Smoking pipe.
Pipe joint fitting. E. W. Kaiser. 2,592,574, Apr. 15.
Pipe plugs or the like, Manufacture of. P. A. Estok. 2,593,126, Apr. 15.
Piston and valve assembly for hydraulic control devices. J. G. Catranis. 2,592,656, Apr. 15.
Pitch controlling means for rotor blades of helicopters. J. S. Neale. 2,593,335, Apr. 15.
Pitch propeller, Variable. H. Gansert. 2,593,290, Apr. 15.
Pivot mounting for kneeler rests or similarly mounted articles. R. C. Patterson. 2,593,177, Apr. 15.
Plansifter. J. F. Lockwood and J. S. Ball. 2,592,917, Apr. 15.
Plant chopping machine, Electrically controlled. A. B. Hann. 2,592,689, Apr. 15.
Plant growing apparatus. J. G. Thomas. 2,592,976, Apr. 15.
Pliers, Adjustable. H. H. Manning. 2,592,927, Apr. 15.
Pliers for round work. H. L. McAdoo. 2,593,164, Apr. 15.
Plowshare manufacture. R. O. Greenshields. 2,593,139, Apr. 15.
Plug: *See*—
Surface discharge spark plug.
Plunger type cam actuated switch. H. W. Crumley. 2,592,660, Apr. 15.
Polyepoxide compositions. S. O. Greenlee. 2,592,560, Apr. 15.
Polymerizing ethylene in aqueous emulsion. L. Seed. 2,592,526, Apr. 15.
Polyphase circuit interrupter. A. van Ryan and W. R. Harry. 2,593,225, Apr. 15.
Portable lever actuated tire removing tool. L. Vanleirsberghe. 2,592,769, Apr. 15.
Portable plural-stage crushing, screening, and washing plants. H. J. Shelton, Jr. 2,593,353, Apr. 15.
Positioning strip, Method and apparatus for. E. T. Lorig. 2,592,581, Apr. 15.
Posthole digger. L. E. Beck and L. R. Callaway. 2,593,245, Apr. 15.
Poultry packing table. R. V. Mathews. 2,593,325, Apr. 15.
Power-operated tree hack and automatic liquid sprayer. O. B. Hough. 2,592,900, Apr. 15.
Power press flywheel bearing lubricating system. P. H. Danly and V. Georgeff. 2,593,116, Apr. 15.
Power pressure intensifier. E. A. Rockwell. 2,593,394, Apr. 15.
Power transmission mechanism. R. E. Keller. 2,592,910, Apr. 15.
Power-transmitting mechanism. E. R. Burtnett. 2,592,538, Apr. 15.
Power-transmitting system. E. R. Burtnett. 2,592,537, Apr. 15.
Practice target for putting. O. L. Koch and P. Nix. 2,592,713, Apr. 15.
Prefabricated folding building. G. M. Shumaker. 2,592,610, Apr. 15.
Preliminary compacting feeding mechanism for balers. M. E. McClellan and L. G. Cheatum. 2,592,932, Apr. 15.
Press: *See*—
Automatic molding press.
Press loading mechanism. E. L. Croston. 2,593,012, Apr. 15.
Pressure applying and release mechanism for wringers. W. L. Kauffman, II. 2,592,575, Apr. 15.
Pressure cooker relief valve. C. W. Abercrombie. 2,592,992, Apr. 15.
Pressure responsive measuring apparatus. J. P. Henderson. 2,592,569, Apr. 15.
Pressure transformer. M. Monoyer. 2,592,940, Apr. 15.
Pressure vessel closure. A. J. Ward. 2,592,627, Apr. 15.
Pretreating liquid fuel, Method and apparatus for. H. S. Hill. 2,592,568, Apr. 15.
Primer assembly for artillery ammunition. N. K. Turnbull. 2,592,623, Apr. 15.
Processing of synthetic hydrocarbons. I. L. Malm. 2,593,159, Apr. 15.
Producing dyed lustrous printed pattern effects using acid-curing resins and free leuco bases of vat dyes. G. A. Billingsley, Jr., and W. P. Hall. 2,592,852, Apr. 15.
Producing flocked articles. W. R. Saks. 2,592,602, Apr. 15.
Production and separation of isomeric isopropylnaphthalenes. J. E. Nickels. 2,592,589, Apr. 15.
Protecting system for photoelectric cells in liquid fuel burner controls. G. Babicz. 2,592,847, Apr. 15.
Protecting windows against superficial damage. H. H. Hutchinson. 2,592,805, Apr. 15.
Protective coating. E. F. Carlston and L. R. Whiting. 2,592,655, Apr. 15.
Pulse analyzer. E. M. Williams and E. V. Cousy. 2,592,631, Apr. 15.
Pulse-echo identifying system. F. C. Williams. 2,592,777, Apr. 15.
Pump: *See*—
Deep-well pump.
High-pressure diaphragm pump.
Pump. L. W. Wachter. 2,593,369, Apr. 15.
Pump assembly, Reciprocating. E. R. J. Kraft. 2,593,316, Apr. 15.
Punching and applying apparatus. A. Fermanian, G. W. Soderman, and W. J. Workman. 2,593,286, Apr. 15.
Purification of minerals. R. Sturgeon and E. Seddon. 2,592,973, Apr. 15.
Quick-operating float valves. H. Katz. 2,592,908, Apr. 15.
Rack: *See*—
Multiple garment rack.
Radio locating apparatus. E. G. Bowen, R. W. Taylor, F. C. Williams, R. H. Brown, and A. G. Touch. 2,592,855, Apr. 15.
Rail joint for locomotive turntables. W. A. Summerhays. 2,593,215, Apr. 15.
Rail member for mounting sinuously corrugated wire springs. W. H. Neely. 2,592,944, Apr. 15.
Rail splice and rerailer. N. Winters. 2,593,235, Apr. 15.
Rake, Auto sweep. C. B. Richey. 2,592,824, Apr. 15.
Rake, Tractor operated dump. R. D. Acton. 2,592,841, Apr. 15.
Ratchet wrench. S. Yavner. 2,592,781, Apr. 15.
Razor, Safety. E. Jacobsen. 2,593,306–7, Apr. 15.

Receptacle: *See*—
Stitchless flexible pocket receptacle.
Receptacle. J. E. Butler. 2,593,384, Apr. 15.
Reclaiming rubber. J. C. Elgin. 2,593,279, Apr. 15.
Recorder, Facsimile. F. A. Hester. 2,592,567, Apr. 15.
Recorder, Game. L. Heinoo. 2,592,897, Apr. 15.
Recording tide current meter. W. K. Lyon. 2,592,583, Apr. 15.
Recording torsion pendulum. L. E. Nielsen. 2,593,389, Apr. 15.
Reel: *See*—
Fishing reel.
Reeling mechanism. H. H. Vanderzee. 2,593,367, Apr. 15.
Refining chemical pulp. T. Norta and Y. Sivola. 2,593,173, Apr. 15.
Reflex light reflector. K. W. Fisher and H. Heltzer. 2,592,882, Apr. 15.
Re-forming naphtha stocks. R. A. Sanford and B. S. Friedman. 2,592,603, Apr. 15.
Refrigerator, Combination dairy, vegetable, and storage. V. P. Warren, II. 2,593,370, Apr. 15.
Refrigerator, Portable. M. F. Knoy. 2,592,712, Apr. 15.
Regeneration and preconditioning of a methanethiol synthesis catalyst. R. T. Bell. 2,592,646, Apr. 15.
Regenerative frequency shifting and pulse shaping circuit. C. C. Cutler. 2,593,113, Apr. 15.
Register, Air. H. R. Geary. 2,593,133, Apr. 15.
Regulated power supply. K. Singer. 2,593,066, Apr. 15.
Regulator: *See*—
Continuous flow oxygen regulator.
Regulator for battery-charging system, Voltage. R. J. Aust. 2,593,241, Apr. 15.
Release and adjusting means for vise-type wrenches. J. G. Helm. 2,592,803, Apr. 15.
Remote direction finder system. W. D. McGuigan. 2,592,719, Apr. 15.
Removal of hydrogen sulfide and mercaptans from gases or liquids such as petroleum or petroleum fractions. G. W. Ayers, M. J. Geerts, and W. A. Krewer. 2,592,523, Apr. 15.
Resilient roller for lamp shade binding machines. J. J. Cahill. 2,592,539, Apr. 15.
Resilient soil-working toothed wheel. E. R. Simon. 2,593,065, Apr. 15.
Resilient tensioned windscreen wiper for curved windscreens. H. W. Trevaskis. 2,593,073, Apr. 15.
Retaining means for electrical outlet boxes. F. C. Johnson. 2,593,033, Apr. 15.
Retractable tool. F. A. Trimboli. 2,592,978, Apr. 15.
Retracting type theater chair. A. C. Hoven, W. E. Nordmark, and W. S. Lindberg. 2,593,145, Apr. 15.
Right angle mounting cabinet front unit. H. T. Lay. 2,593,317, Apr. 15.
Riveting gun and magazine therefor. J. Aherne-Heron. 2,592,636, Apr. 15.
Rocking chair. J. Spence. 2,592,756, Apr. 15.
Roll matrial dispenser. C. M. Huntington. 2,592,571, Apr. 15.
Roller conveyer construction. L. D. Barry. 2,593,089, Apr. 15.
Roller for removing lint. H. Stachowiak. 2,592,969, Apr. 15.
Roller leveler. E. T. Peterson. 2,592,948, Apr. 15.
Rotary heat exchanger. O. E. A. Aspegren. 2,592,783, Apr. 15.
Rotary mechanical seal. F. E. Payne. 2,592,728, Apr. 15.
Rotary table. J. H. Wilson. 2,592,633, Apr. 15.
Rotatable display sign. R. N. Morton. 2,593,331, Apr. 15.
Rotating cutter bar. E. Soenksen. 2,592,755, Apr. 15.
Rotor and stator for fluid handling machines having surfaces coated with gold. C. E. Earle and F. P. Somers. 2,592,876, Apr. 15.
Rotor for dynamoelectric machines. F. A. Compton, Jr. 2,593,105, Apr. 15.
S-(ethylxanthoyl) piperidyl thiophosphoric chloride. H. Tolkmith. 2,592,617, Apr. 15.
Safety attachment for outboard motors. W. A. Wardius. 2,592,772, Apr. 15.
Safety device for amusement rides. L. U. Eyerly. 2,592,879, Apr. 15.
Safety valve. C. H. Folmsbee. 2,592,673, Apr. 15.
Sand cooling device. R. L. McIlvaine. 2,593,327, Apr. 15.
Sanitary smoking pipe. A. Dressler, Jr. and A. E. Fowler. 2,593,016, Apr. 15.
Sausage linker. J. M. Miller. 2,592,939, Apr. 15.
Saw operating mechanism. W. E. Roe. 2,593,346, Apr. 15.
Saw, Sliding cutoff. R. E. Starnes. 2,592,970, Apr. 15.
Saw, Squaring carpenter's. E. Salin. 2,592,745, Apr. 15.
Scaffold. C. C. Droeger, E. J. Meloy, and W. C. Roggie. 2,593,122, Apr. 15.
Scaffold, Folding. D. H. Dirks. 2,593,386, Apr. 15.
Scale structure. B. P. Adams. 2,593,237, Apr. 15.
Scale, Weighing. W. C. Dillon. 2,592,795, Apr. 15.
Scissors type cigarette holder. S. C., Sr. and O. Reagan, and C. E. and G. Wood. 2,593,054, Apr. 15.
Scoop, Ice-cream. M. C. Mercer. 2,592,720, Apr. 15.
Screw and nut mechanism. D. Grimley. 2,592,889, Apr. 15.
Seal for axial air gap induction motors. O. H. Shenstone. 2,592,752, Apr. 15.
Sealing fluid lubricant in the hub of a rotating element. A. J. Kayser. 2,592,645, Apr. 15.
Sealing means. E. A. Rockwell. 2,593,193, Apr. 15.
Seat: *See*—
Electrically heated toilet seat. Fishing reel seat.
Seat structure for school desks. P. F. Douglas. 2,592,872, Apr. 15.
Seismic method and apparatus. J. P. Woods. 2,592,780, Apr. 15.
Seismometer. R. G. Piety and M. E. Thomas. 2,593,052, Apr. 15.
Self-balancing cabinet. C. Sutera. 2,592,760, Apr. 15.
Self-cleaning endless track. G. W. Curtis. 2,592,541, Apr. 15.
Self-compensating accumulator. R. E. Snyder. 2,592,613, Apr. 15.
Sensing device for sorting apparatus. T. T. Short. 2,593,206, Apr. 15.
Separation of carbon dioxide from gases. J. E. Taylor and J. H. Haslam. 2,592,762, Apr. 15.
Separator: *See*—
Steam separator.
Sewing machine attachment. R. W. Burgess, C. G. Baehr, and J. Connors. 2,592,653, Apr. 15.
Sewing machine, Railway. W. S. Rotherham. 2,593,196, Apr. 15.
Shaping lobed forms, Method and machine for. P. C. Durland. 2,592,875, Apr. 15.
Sheet feeder. H. A. Pritchard. 2,593,181, Apr. 15.
Sheet feeder mechanism. E. J. Rapp and H. R. Coon, Sr. 2,592,822, Apr. 15.
Sheet registering mechanism for printing. W. F. Huck. 2,593,148, Apr. 15.
Sheet transfer device for perfecting presses. H. A. Pritchard. 2,593,180, Apr. 15.
Shield for tobacco pipes, Collapsible lighting. J. Ungar. 2,592,835, Apr. 15.
Ship tank top and hopper construction. W. G. Bartenfeld. 2,592,999, Apr. 15.
Shock absorber. R. Watts. 2,593,372, Apr. 15.
Shock absorbing means for spring actuated tacking devices. O. A. Wandel. 2,593,231, Apr. 15.
Shoe, Snow plow. C. A. and A. L. Hanson. 2,593,025, Apr. 15.
Shoulder harness for artificial arms. S. W. Alderson. 2,592,842, Apr. 15.
Shuttle car. W. R. Beck. 2,592,532, Apr. 15.
Sifter. L. M. Barbery. 2,592,850, Apr. 15.
Sight glass fitting for piping systems. P. Baird. 2,592,848, Apr. 15.
Sign: *See*—
Rotatable display sign.
Signal: *See*—
Door-actuated mailbox signal. Vehicle signal.
Signal device, Tunable wave. J. A. Rado. 2,593,183, Apr. 15.
Signaling device, Curb proximity. A. B. Rose. 2,592,742, Apr. 15.
Silahydrocarbons and their production. J. T. Goodwin, Jr. 2,592,681, Apr. 15.
Silver catalyst supported on a MgO-Al_2O_3 spinel. G. Calingaert. 2,593,100, Apr. 15.
Single-phase motor control. H. F. Clark. 2,593,268, Apr. 15.
Single spindle chucking machine. A. E. Drissner. 2,593,277, Apr. 15.
Slicer, Hydraulic. G. E. Zweifel and D. H. Bookhultz. 2,592,782, Apr. 15.
Slicer, Vegetable. J. J. Strand. 2,592,832, Apr. 15.
Slide feeding mechanism for still picture projection machines. C. J. Cadwell and F. M. Adamson. 2,593,007, Apr. 15.
Smoking pipe. R. G. Sansom. 2,592,957, Apr. 15.
Soot blower with mechanism for converting rotary motion into straight line motion succeeded by rotary motion. C. F. Lumb. 2,592,923, Apr. 15.
Sound control system. H. Schwartzberg. 2,593,204, Apr. 15.
Spill guard and ice tray. L. G. Copeman. 2,593,106, Apr. 15.
Spindle spinning machine of the worm and worm wheel drive type, Multiple. L. Birkigt. 2,592,853, Apr. 15.
Spot removing gun. R. R. Wilkey. 2,593,080, Apr. 15.
Sprayer, Water. M. Sigmund. 2,592,753, Apr. 15.
Spraying and dusting machine. G. W. Daugherty. 2,593,275, Apr. 15.
Spring actuated slide snap-hook. B. A. Andrews. 2,592,843, Apr. 15.
Spring jack for knitting machine needles. H. A. Blickle. 2,592,787, Apr. 15.
Spring pad and cover. N. Skillman, Jr., and J. E. Connolly. 2,593,208, Apr. 15.
Spring winding apparatus. C. R. Oberg. 2,592,590, Apr. 15.
Sprinkler, Magnetically controlled rotary water. C. B. Shoemaker. 2,592,609, Apr. 15.
Stabilization of color in fruit. J. E. Hall and E. A. Heiss. 2,592,563, Apr. 15.
Stabilized paraffin wax compositions. D. W. Young. 2,593,381, Apr. 15.
Stabilized tetraethylpyrophosphate insecticidal dust. C. C. Cassil and J. Yaffe. 2,592,540, Apr. 15.

Stairway, Hinged and collapsible. L. J. Nixon. 2,593,336, Apr. 15.
Stake or post driver. C. Richardson. 2,593,186, Apr. 15.
Stalk cutter. J. O. and G. A. Yeager. 2,592,991, Apr. 15.
Stand: *See*—
Base stand. Knockdown stand.
Staple extractor. R. Hofstetter. 2,592,570, Apr. 15.
Steam separator. N. C. Artsay. 2,592,530, Apr. 15.
Stencil, Screen. J. B. Brennan. 2,592,789, Apr. 15.
Stenographic machine, Electrically operated. J. K. Watson. 2,593,371, Apr. 15.
Steriliser. R. L. Jewell and C. E. Freese. 2,592,705, Apr. 15.
Sterilizing apparatus. C. L. Halmrast. 2,592,687, Apr. 15.
Stitchless flexible pocket receptacle. D. J. Broughton. 2,592,651, Apr. 15.
Storage device utilising semiconductor. F. Gray. 2,592,683, Apr. 15.
Storage tank. W. E. Joor, Jr. 2,593,153, Apr. 15.
Storm window structure. V. E. Anderson. 2,593,239, Apr. 15.
Strainer. C. A. Glauque. 2,593,293, Apr. 15.
Striping machine for electric conductors and the like. G. E. Forsberg. 2,592,674, Apr. 15.
Striping machine for strand material. G. E. Forsberg. 2,592,675, Apr. 15.
Stylus structure for recorders. H. A. Stamper. 2,593,068.
Sugar cane juice clarifier. E. G. Koch. 2,593,036, Apr. 15.
Sulfathiazole preparation. T. F. Cleary, Jr. 2,592,859, Apr. 15.
Sulfathiasole, Preparing. T. F. Cleary, Jr. 2,592,860, Apr. 15.
Sulfuric acid recovery. R. H. Felter. 2,593,128, Apr. 15.
Support: *See*—
Hernia support. Typewriter support.
Lid support.
Support for containers of pastelike substances having fluid pressure means for dispensing said substances. J. L. Taylor. 2,593,362, Apr. 15.
Support for cooking utensils. H. J. Block. 2,593,003, Apr. 15.
Support for service trays. F. F. Tracy. 2,593,222, Apr. 15.
Supporting structure for electron discharge devices. N. Kafka. 2,593,034, Apr. 15.
Surface discharge spark plug. W. B. Smits. 2,592,754, Apr. 15.
Suspension liquid gas container. G. F. Sulfrian. 2,592,974, Apr. 15.
Suspension means for drive axles. H. G. Hansen. 2,592,893, Apr. 15.
Sweating torch for conduits. W. J. Granfield. 2,593,295, Apr. 15.
Sweepstick. L. R. Helm. 2,592,566, Apr. 15.
Swimming appliance E. C. Lindgren. 2,593,321, Apr. 15.
Switch: *See*—
Multiple switch. Thermal cutout switch.
Plunger type cam actuated switch.
Switch for centrifugal oil and water separators. W. R. Macdonald. 2,593,043, Apr. 15.
Switch structure for motor-driven tools. N. Brackett. 2,592,649, Apr. 15.
Switching system for high-power radio-frequency energy. W. H. Flarity. 2,592,551, Apr. 15.
Synchronized oscillator circuit. J. E. Bridges. 2,593,005, Apr. 15.
Table: *See*—
Folding table. Rotary table.
Poultry packing table.
Table having an adjustable drawing board, Writing. P. W. Thompson. 2,593,364, Apr. 15.
Table scrap eliminating device. R. W. Strehlow, A. M. Olson, and L. E. Kaap. 2,593,359, Apr. 15.
Table top circulator. O. A. Sutton. 2,593,217, Apr. 15.
Tank: *See*—
Storage tank.
Tape controlled telegraph transmitter. R. J. Wise and R. D. Parrott. 2,592,779, Apr. 15.
Tape cutter. N. W. Corey. 2,592,865, Apr. 15.
Tape splitting machine. D. Littman. 2,593,388, Apr. 15.
Target control device. P. E. Davenport. 2,593,117, Apr. 15.
Telephone mouthpiece attachment, Sanitary. C. E. Zimmermann. 2,593,382, Apr. 15.
Telephone system provided with party lines, Automatic. C. E. Lomax. 2,592,813, Apr. 15.
Telephone system, Restricted service. P. Bakker. 2,592,784, Apr. 15.
Temperature control for electric blankets, Secondary. A. J. Huck. 2,592,525, Apr. 15.
Tension brake device. C. L. Patterson. 2,592,595, Apr. 15.
Test fixture for vacuum tube sockets. H. W. Clifford and R. MacDonald. 2,593,269, Apr. 15.
Textile fabrics and producing same, Resin impregnated. A. Silver. 2,593,207, Apr. 15.
Thermal control apparatus with signal means. J. M. Wilson. 2,592,989, Apr. 15.
Thermal cutout switch. E. A. Havasi. 2,593,301, Apr. 15.
Thermally responsive device. J. C. Albright. 2,593,238, Apr. 15.
Thermoelectric control system. W. A. Ray. 2,592,952, Apr. 15.
Thiothiazolone-derivatives. T. Matsukawa and T. Iwatsu. 2,592,931, Apr. 15.
Thread brake. A. Moessinger. 2,592,818, Apr. 15.
Ticket printing and mutilating machine, Rotary. C. F. Webb. 2,593,078, Apr. 15.
Timing mechanism, Toaster. F. W. Scharf. 2,592,826, Apr. 15.
Timing relay. N. R. M. Weibull. 2,592,986, Apr. 15.
Tire construction. J. O. Antonson. 2,592,844, Apr. 15.
Tire, Pneumatic. E. H. Gibbs. 2,592,557, Apr. 15.
Tobacco pipe. H. G. Wyse. 2,593,380, Apr. 15.
Tobacco product and making the same, Resilient. W. G. Frankenburg. 2,592,554, Apr. 15.
Tobacco products and processes therefor. W. G. Frankenburg, and P. W. Garbo. 2,592,553, Apr. 15.
Toilet paper holder. G. H. Roddan. 2,592,955, Apr. 15.
Tool: *See*—
Bail cock reseating tool. Machine tool.
Combination weld cleaning and chipping tool. Portable lever actuated tire removing tool.
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Tool bar mounting. E. J. Patterson. 2,593,176, Apr. 15.
Tool joint wear sleeve. E. G. Boice. 2,592,854, Apr. 15.
Tool with resilient striking surface, Impact. C. J. Fisher. 2,592,883, Apr. 15.
Top for automobiles, Convertible. S. Sulkowski, Jr. 2,593,360, Apr. 15.
Towing harness. E. B. Wampler. 2,592,771, Apr. 15.
Track for vehicles, Self-laying. C. W. Leguillon. 2,592,916, Apr. 15.
Transducing device having an electro-mechanically responsive dielectric element. H. Jaffe. 2,592,703, Apr. 15.
Transmission. E. G. Reed, Jr. 2,593,184, Apr. 15.
Transmission. H. E. Violet. 2,592,982, Apr. 15.
Transmitter, High-frequency amplitude modulated. G. C. Szikiai. 2,593,395, Apr. 15.
Transparent electroconductive article and producing the same. R. F. Raymond and B. J. Dennison. 2,592,601, Apr. 15.
Trap: *See*—
Animal trap.
Disposable urinal with liquid trap.
Tread centering mechanism for tire molds. E. A. Glynn. 2,593,137, Apr. 15.
Treating fibrous or cellulosic material, Method of and machine for. P. N. Ottersland, N. Rigabar and E. S. Lansing. 2,592,594, Apr. 15.
Treating liquid egg material. L. B. Jensen and W. R. Hess. 2,593,308, Apr. 15.
Treating nylon. L. L. Stott and L. R. B. Hervey. 2,592,616, Apr. 15.
Treatment of nonalpha tocopherols. L. Weisler. 2,592,628, Apr. 15.
Tree holder. C. E. Harris. 2,592,895, Apr. 15.
Tricycle drive mechanism and frame therefor. W. C. Roe and R. G. Nightingale. 2,593,347, Apr. 15.
Trihydroxy steroid adducts. P. E. Marlatt, A. R. Hanze, A. V. McIntosh, Jr. and R. H. Levin. 2,592,586, Apr. 15.
Troughing roll. S. J. Spurgeon and R. O. Kimbro. 2,592,831, Apr. 15.
Truck, Hand. R. G. Bartlett. 2,592,644, Apr. 15.
Truck, Railway. E. C. Jackson. 2,592,700, Apr. 15.
Truck, Railway. W. C. Krautheim. 2,592,714, Apr. 15.
Tube: *See*—
Cathode-ray tube.
Grid-controlled electron tube.
Tube closure, Collapsible. R. L. Jeffery. 2,592,806, Apr. 15.
Tube cutting machine. R. L. Ohmstede. 2,592,946, Apr. 15.
Tubing packer. J. S. Page. 2,592,947, Apr. 15.
Tubular metallic wave, Making. W. B. Stoddard, Jr. 2,592,614, Apr. 15.
2-amino-7-heterocyclicaminothioxanthenes. E. D. Amstutz. 2,592,529, Apr. 15.
Two-wheel vehicle. H. E. Violet. 2,592,981, Apr. 15.
Type ribbon feed device for race totalizator ticket issuers. A. F. and G. A. Julius. 2,592,706, Apr. 15.
Typewriter support. J. Vale and C. E. Klopfer. 2,593,075, Apr. 15.
Upholstery tuft fastener. E. D. Oram. 2,592,725, Apr. 15.
Urn, Coffee. L. Svendsgaard. 2,592,761, Apr. 15.
Urn, Sand. L. H. Franklin. 2,592,676, Apr. 15.
Vacuum cleaner having automatic nozzle adjustment, Sweeper type. J. B. Kirby. 2,592,710, Apr. 15.
Valve: *See*—
Air valve. Pressure cooker relief valve.
High-pressure faucet type valve. Quick-operating float valve.
Hydraulic control valve. Safety valve.
Valve and actuating mechanism therefor, Filler. H. D. Ayars. 2,592,846, Apr. 15.
Valve and operator therefor, Multiple slide. E. Mercier and M. Ehlinger. 2,593,047, Apr. 15.
Valve chest insert for pressure fluid operated reciprocating engines. J. J. Kupka. 2,593,037, Apr. 15.

Valve for condenser tube blowers, Multiple. W. S. Campbell. 2,593,101, Apr. 15.
Valve for hydraulic mechanism, Speed control. E. F. Jirsa, M. Hansen and C. W. Bopp. 2,592,906, Apr. 15.
Valve for sequential operation of hydraulic motors. C. B. Livers and A. A. Meddock. 2,593,039, Apr. 15.
Valve operating means. D. Mapes. 2,592,816, Apr. 15.
Valve structure. R. S. Knapp. 2,592,808, Apr. 15.
Variable compression system for internal-combustion engines. R. L. Skinner. 2,592,829, Apr. 15.
Variable-oscillator controlled relay system. G. A. Waldie and H. F. MacMillin. 2,592,770, Apr. 15.
Variable-speed transmission. W. J. F. Forward and R. R. Roberts. 2,592,799, Apr. 15.
Variable-speed transmission. M. R. Matheson. 2,593,163, Apr. 15.
Vehicle: *See*—
Two-wheel vehicle.
Vehicle signal. H. B. O'Brien. 2,593,337, Apr. 15.
Vehicle suspension means. W. Lloyd. 2,593,040, Apr. 15.
Vehicle wheel. C. S. Ash. 2,592,997, Apr. 15.
Vending machine. M. Caruso. 2,593,102, Apr. 15.
Venetian blind construction. J. A. Anderle. 2,592,995, Apr. 15.
Venetian blind headbar construction. H. Nelson. 2,593,048, Apr. 15.
Ventilator window frame. H. M. Dodge. 2,593,387, Apr. 15.
Vertical flue downdraft boiler. J. C. Johnson. 2,593,032, Apr. 15.
Vitamin B_1 and its allied compound, Preparing. T. Matsukawa and T. Iwatsu. 2,592,930, Apr. 15.
Washing device. M. Paul. 2,593,178, Apr. 15.
Washing machine. R. S. Gaugler. 2,593,292, Apr. 15.
Washing machine, Jet action. W. L. Pengelly. 2,592,596–7, Apr. 15.
Watch crown, Dustproof. R. Feurer. 2,592,881, Apr. 15.
Water heater. J. S. Conner. 2,592,863, Apr. 15.
Wave guide transmission system. R. H. Dicke. 2,593,120, Apr. 15.
Weather strip. G. G. Hunter. 2,593,305, Apr. 15.
Wedge facing machine. G. Eaton. 2,593,124, Apr. 15.
Wedge parallel gauge. D. E. Stainton. 2,592,758, Apr. 15.
Weeder. H. D. Eriebach, Sr. 2,593,283, Apr. 15.
Weft detecting mechanism for looms. H. A. Whitin. 2,593,079, Apr. 15.
Weft yarn ensnaring apparatus for automatic looms. L. L. Hawkins. 2,593,302, Apr. 15.
Weighing machine. J. K. Bache. 2,593,086, Apr. 15.
Wheel: *See*—
Fan wheel. Vehicle wheel.
Resilient soil-working toothed wheel.
Wheel and mounting means therefor, Vehicle. H. L. Kelderman. 2,592,707, Apr. 15.
Wheel balancing machine. J. W. F. Holl. 2,592,804, Apr. 15.
Wheel structure. G. A. Lyon. 2,592,584, Apr. 15.
Wide range high-frequency series-resonant tuning circuit. G. C. Szikiai. 2,593,361, Apr. 15.
Winding machine. W. L. Perry. 2,592,599, Apr. 15.
Window. V. Breuer. 2,593,258, Apr. 15.
Window construction. W. Colangelo. 2,593,104, Apr. 15.
Window sash lock. J. Barry. 2,593,243, Apr. 15.
Window structure. L. Mancini. 2,593,160, Apr. 15.
Windshield wiper mechanism. E. E. Sivacek. 2,593,355, Apr. 15.
Wire fabric structural member. W. S. and A. J. Edge. 2,592,548, Apr. 15.
Wire feed gear train lubrication. A. P. Shepard. 2,592,607, Apr. 15.
Wire terminal and insulating sleeve. E. H. Branson. 2,592,788, Apr. 15.
Wrapping machine. W. C. Palmer and A. A. Kottmann. 2,592,726, Apr. 15.
Wrapping machine for butter and the like. H. R. Coon, Sr., and E. J. Rapp. 2,592,793, Apr. 15.
Wrench: *See*—
Ratchet wrench.
Wrench and plier, Locking. H. T. Jones. 2,592,807, Apr. 15.
Writing game planchette. J. J. Batcha. 2,593,244, Apr. 15.
Zirconium oxide-silicon oxide silver catalyst support and process using the same. W. E. and J. T. Burt and W. B. Ligett. 2,593,097, Apr. 15.
Zirconium silicate refractory, Production of. C. Shaw, W. E. Smith, and D. E. B. Greensmith. 2,593,352, Apr. 15.

CLASSIFICATION OF PATENTS

ISSUED APRIL 15, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Condition of Applications Under Examination at Close of Business March 28, 1952

Total number of patent applications awaiting action, 101,559. Date of oldest new application, June 6, 1951; date of oldest amended application, June 5, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	7-2-51	6-3-51	2119
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	9-7-51	9-8-51	1097
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	8-24-51	8-24-51	1599
4. FALLER, E. A. (Acting), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	6-18-51	6-18-51	1668
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	8-13-51	8-11-51	1244
6. SURLE, H., Carbon Chemistry (part)	6-6-51	7-12-51	1828
7. GONSALVES, J. E., Optics; Photography (part)	9-4-51	9-1-51	1206
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	6-15-51	6-15-51	1732
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	6-19-51	6-19-51	1478
10. ANDRUS, L. M., Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles	6-22-51	6-22-51	1351
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	6-27-51	6-26-51	955
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	6-26-51	6-28-51	1183
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	6-11-51	6-7-51	1376
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	6-18-51	6-12-51	1660
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	9-8-51	9-5-51	1123
16. LOVEWELL, N. N., Television, Telephony	6-12-51	6-11-51	1240
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	6-19-51	6-19-51	1944
18. KURZ, J. A., Power Plants; Speed Responsive Devices	6-16-51	6-14-51	1278
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	6-28-51	6-29-51	1126
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	7-11-51	7-10-51	1444
21. MADER, R. C., Textiles	6-13-51	6-13-51	1352
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	7-2-51	7-2-51	1136
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	6-12-51	6-12-51	832
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	7-30-51	7-31-51	1428
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	7-11-51	7-11-51	1156
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	6-20-51	6-20-51	1195
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	7-9-51	7-7-51	1530
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	7-2-51	6-27-51	1354
29. HABECKER, L. B., Button Making; Woodworking; Tools	7-17-51	7-10-51	1072
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	8-7-51	8-7-51	1503
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	7-20-51	7-27-51	1983
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-26-51	7-1-51	1123
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	6-13-51	6-20-51	2025
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	7-5-51	7-5-51	1337
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	6-18-51	6-15-51	1471
36. McFADYEN, A. D., Measuring and Testing	6-22-51	6-20-51	1267
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	7-25-51	7-14-51	1257
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	7-5-51	7-5-51	1510
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	7-2-51	7-2-51	2619
40. DRUMMOND, E. J., Receptacles (part); Packages	7-6-51	7-5-51	1455
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	6-21-51	6-18-51	1179
42. MARANS, H., Electric Signaling (part, except submarine, altimeters, distance or direction measuring, and object detection); Signals; Telegraphy (part); Signals and Indicators.	7-5-51	6-29-51	1117

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 101,559. Date of oldest new application, June 6, 1951; date of oldest amended application, June 5, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	8-4-51	8-4-51	1226
44. HARVEY, L. P., Beds; Chairs, Seats	6-14-51	6-15-51	1309
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	6-29-51	6-30-51	1351
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	6-26-51	6-26-51	809
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	7-3-51	6-19-51	1570
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	6-25-51	6-21-51	1640
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	6-25-51	6-18-51	1490
50. BENGEL, W. G., Synthetic Resins	9-15-51	9-12-51	1460
51. YAFFEE, S., Radiant Energy (part e. g., radio signaling); Radiant Energy Communications (part e. g., duplex, multiplex, device control); Modulators; Music; Piezoelectric crystals.	7-3-51	7-3-51	1329
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	7-5-51	6-23-51	2106
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	7-30-51	8-1-51	1041
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	6-30-51	6-29-51	1614
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	7-5-51	7-10-51	1100
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	7-17-51	7-17-51	1802
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	6-27-51	6-28-51	1810
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators.	7-11-51	7-2-51	945
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	6-29-51	6-30-51	1099
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	7-13-51	7-31-51	1058
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	6-29-51	7-2-51	1239
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	7-5-51	7-2-51	1408
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	6-21-51	7-5-51	1588
64. GORECKI, G. A., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	8-27-51	7-20-51	1758
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	7-11-51	7-3-51	1454
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	6-15-51	6-11-51	1073
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	7-10-51	7-2-51	1224
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	6-27-51	6-21-51	1671
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	6-26-51	6-26-51	1317
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	6-12-51	6-5-51	2990
DESIGNS: A. BREHM, G. L., Industrial Arts	12-1-51	12-12-51	654
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	11-30-51	12-27-51	681

Total number of trade-mark applications awaiting action (including renewals and republications), 14,324. Date of oldest new application, Sept. 11, 1951; date of oldest amended application, Sept. 11, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	9-13-51	9-13-51	3839
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	10-4-51	10-4-51	3073
Renewals (All Classes)	1-25-52	2-23-52	760
Republications (All Classes)	2-15-52	2-23-52	186
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	10-15-51	10-1-51	3257
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	9-11-51	9-11-51	3209

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

HY-V COMPANY, INC. *v.* CAMPBELL SOUP COMPANY

No. 5830. Decided December 18, 1951. Petition for rehearing denied January 25, 1952

[193 F.2d 338; 92 USPQ 212]

1. TRADE-MARKS—CONFUSION OF PUBLIC—"hyV" AND "V-8".

The decision of the Commissioner sustaining the appellee's opposition is affirmed since the letter "V" is displayed in both marks constitutes the conspicuous feature of each, and the goods of the respective parties, that is canned fruit juices of appellant and the canned mixed vegetable juices of appellee, are goods of the same descriptive properties in the sense of the statute.

APPEAL from Patent Office. T. M. Opposition No. 27,512.

AFFIRMED.

Thomas L. Mead, Jr., William E. Schuyler, Jr., and *Francis C. Browne* (*Jewett, Mead, Browne & Schuyler* of counsel) for appellant.

Watson Johnson Leavenworth & Blair (*Ellis W. Leavenworth, Leslie D. Taggart*, and *Tracy R. V. Fike* of counsel) for appellee.

GARRETT, *Chief Judge*:

This is an appeal from the decision of the Commissioner of Patents, speaking through the Assistant Commissioner, affirming that of the Examiner of Interferences in a trade-mark opposition proceeding (86 USPQ 217).

March 12, 1947, appellant, Hy-V Company, filed its application, Serial No. 518,889, in the Patent Office for the registration, under the Trade-Mark Registration Act of 1905, of the notation "hyV" as a trade-mark for "canned fruit juices for food purposes," continuous use of the mark being alleged "since January 7, 1947."

April 28, 1948, appellee, Campbell Soup Company, filed notice of opposition to the registration so sought. In the notice appellee alleged ownership and use by itself and predecessors in business of two registered trade-marks, the first being the notation "V-8" for a "COMBINATION OF EIGHT VEGETABLE JUICES," which was registered in the name of New England Products, Inc., January 25, 1938, upon an application, Serial No. 397,587, filed September 20, 1937, and the second being the same notation registered in the name of Standard Brands Incorporated as a trade-mark for "CANNED MIXED VEGETABLE JUICES WHICH MAY BE SERVED COLD OR USED AS A SOUP PREPARATION." The latter mark was registered October 15, 1946, upon an application, Serial No. 498,803, filed January 25, 1946.

Appellee's ownership of the registrations by transfers, duly recorded in the Patent Office, is not questioned by appellant, nor was any question raised as to the matter of prior user.

We think the respective marks may be visualized readily from the description of them given in the brief for appellant as follows:

> • • • each of the lower case letters "h" and "y" is approximately two-thirds of the height of the letter "V" and the width of each of the lower case letters "h" and "y" is approximately one-half of the width of the letter "V", the over-all width of the lower case letters "hy" being approximately equal to the over-all width of the letter "V" and the over-all height of the letters "hy" being nearly the same as the height of the letter "V". • • •
>
> • • • [In appellee's mark] the letter "V" is positioned at a slightly higher level than the numeral "8", the letter "V" and the numeral "8" being of approximately the same size, separated by a hyphen, and shown in *two* dimensions; • • •. [Italics quoted.]

From the description so given it is obvious to an observer, whether he be a careful observer or a casual observer, that the letter "V" as arranged in both marks constitutes the conspicuous feature of each.

So far as the goods of the respective parties are concerned—that is, the "canned fruit juices for food purposes" of appellant, and the (1) "combination of eight vegetable juices" and (2) "canned mixed vegetable juices which may be served cold or used as a soup preparation" of appellee—we regard them as goods having the same descriptive properties in the sense of the registration statute as the phrase "same descriptive properties" has been construed so often by this and other courts.

We think there was no error in the decisions sustaining the opposition and the decision appealed from is affirmed.

AFFIRMED.

JOHNSON and WORLEY, *JJ.*, dissent.

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PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,992,921, J. F. Loughlin, Production of butyl alcohol and acetone by fermentation; 1,996,428, 2,085,666, same, Manufacture of solvents by fermentation, filed Mar. 6, 1952, D. C. Puerto Rico, Doc. 6512, *J. F. Loughlin* v. *Association Azucarera Cooperativa Lafayette.*

1,996,428. (See 1,992,921.)

2,036,393, A. J. Briggs, Stranded wire structure and process and machine for producing same, appeal filed Mar. 12, 1952, C. C. A., 4th Cir., Doc. 6408, *American Chain & Cable Co., Inc.* v. *Rochester Ropes, Inc.*

2,085,666. (See 1,992,921.)

2,120,667, B. Gruskin, Therapeutic agent for use in the treatment of infection, D. C., N. D. Tex. (Dallas), Doc. 4442, *Rystan Co., Inc.* v. *The Warren Teed Products Co., Inc.* Judgment holding patent valid and infringed; injunction granted, counterclaim dismissed Mar. 1, 1952.

2,388,867, R. O. Peterson, Brush and brush material, filed Mar. 17, 1952, D. C. N. J. (Newark), Doc. 224/52, *The Osborn Mfg. Co.* v. *Newark Brush Co.*

2,413,056, J. I. Levyn, Decorative bar pin, D. C., S. D. N. Y., Doc. 49/450, *Jilko Service Products* v. *Waltco, Inc.* Doc. 49/451, *Jilko Service Products* v. *Pritt Novelty Co., Inc.* Doc. 49/452, *Jilko Service Products* v. *Goodwear Fabrics Co.* Stipulation and order of discontinuance Mar. 10, 1952, in each of above cases.

2,421,605, Eaton & Eaton, Cushion shoe and method of making same, D. C. Mass. (Boston), Doc. 50/990, *C. A. Easton Co. v. Plymouth Shoe Co.* Claims 1 and 2 held invalid for want of invention Oct. 17, 1951.

2,495,579, Ferris & Klancnik, Antenna, D. C., S. D. Calif. (Los Angeles), Doc. 13431–T, *Hi-Lo Antenna Corp.* v. *Barstow & Doran et al.* Dismissed as to Barstow & Doran. Consent judgment holding patent valid and infringed, defendant P. S. Wald restrained from further infringement (notice Mar. 11, 1952).

2,503,824, J. L. Hunter et al., Method for rolling strip material, D. C., N. D. Calif. (San Francisco), Doc. 30024, *Hunter Douglas Corp.* v. *Lando Products, Inc.* Patent held not infringed, case dismissed (notice Mar. 5, 1952).

2,529,609, M. L. Jacob, Circular annealing inner cover, filed Mar. 11, 1952, D. C., W. D. Pa. (Pittsburgh), Doc. 10363, *National Annealing Box Co.* v. *Pittsburgh Annealing Box Co. et al.*

2,535,864, H. M. Plehn, Garment, filed Mar. 7, 1952, D. C., S. D. N. Y., Doc. 74/14, *Peter Pan Foundations, Inc.* v. *Hollywood-Maxwell Co.*

2,541,637, Christopher & Spear, Method of vaporizing lindane in ventilated rooms, filed Nov. 12, 1951, D. C., N. D. Tex. (Dallas), Doc. 4452, *American Aerovap, Inc.* v. *Kem Air Products et al.*

2,547,530, J. Mehl, Garment storage bag, filed Mar. 11, 1952, D. C., S. D. N. Y., Doc. 74/30, *The Sydney-Thomas Corp.* v. *Pak-Rite Flexible Packaging Co.*

2,555,402, P. M. Field, Optical indicator means for use with copy projection apparatus, D. C., N. D. Tex. (Dallas), Doc. 4419, *Charles Beseler Co.* v. *J. Y. Taylor & Co. et al.* Decree holding patent valid and infringed, injunction; counterclaim dismissed Mar. 7, 1952.

2,574,701, M. M. Malis, Machine for crocheting cord, filed Mar. 13, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. 12512, *M. Mallis & Co. et al.* v. *Royal Tot Mfg. Co.*

Re. 23,279, A. J. Wright, Bed and platen hectographic address machine, D. C., S. D. Calif. (Los Angeles), Doc. 12858–BH, *A. J. Wright* v. *Addressoprint Corp.* Consent judgment holding patent valid and infringed; injunction (notice Mar. 4, 1952).

Des. 151,732, W. G. Bley, Lady's stocking, filed Mar. 11, 1952, D. C., E. D. Pa., Doc. 13382, *Sanson Hosiery Mills, Inc., et al.* v. *Miles Shoes of Market Street Philadelphia, Inc.* Doc. 13383, *Sanson Hosiery Mills, Inc., et al.* v. *I. Simon & Co., Inc.* Doc. 13412, *Sanson Hosiery Mills, Inc., et al.* v. *Strong Wear Hosiery Co. et al.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 344,958, Roto-Rooter Corp., Sewer and drain cleaning machine, filed Mar. 13, 1952, D. C. R. I. (Providence), Doc. 1346, *Roto-Rooter Corp. et al.* v. *Kirkwood Plumbing & Heating Co.*

T. M. 383,458, U. S. Plywood Corp., Plywood panels and laminated assemblies of veneers, etc., D. C., S. D. Calif. (Los Angeles), Doc. 8086–PH, *U. S. Plywood Corp.* v. *Zeesman Plywood Corp. et al.* Trade-mark held valid and infringed (notice Mar. 11, 1952).

NOTICES

Adjudicated Patents

(D. C. Tex.) Stone Patent No. 2,092,659, for a termite shield, *Held* valid and infringed. *Stone* v. *Hallan*, 102 F. Supp. 252; — USPQ —.

(C. A. Mass.) Seemiller Patent No. 2,252,210, for a method of making heat-exchange cores. Claims 2 and 6 *Held* invalid. *McCord Corp.* v. *Beacon Auto Radiator Co., Inc.*, 193 F.2d 985; 92 USPQ 163.

(C. A. Mass.) Seemiller Patent No. 2,252,211, for a heat exchange core. Claims 1 and 4 *Held* invalid. *Id.*

(C. A. Ill.) Demcak Patent No. 2,267,973, for an examining table. Claims 2 and 4 *Held* invalid. *Hamilton Mfg. Co.* v. *Illinois Surgical Supply Co. et al.*, 193 F.2d 938; 92 USPQ 302.

Disclaimers

2,443,455.—*Clairmont J. Herman*, Fort Wayne, Ind. DYNAMOELECTRIC MACHINE. Patent dated June 15, 1948. Disclaimer filed Mar. 15, 1952, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claims 1 to 5, inclusive, of said patent.

2,458,975.—*George W. Brady*, Upper Montclair, N. J. RIB REINFORCING MEANS FOR PROPELLER BLADES. Patent dated Jan. 11, 1949. Disclaimer filed Mar. 14, 1952, by the inventor and the assignee, *Curtiss-Wright Corporation.*

Hereby enter this disclaimer to claims 1, 2, and 3 of said patent.

2,461,925.—*Herbert E. Rupp*, Mansfield, Ohio. SELF-PRIMING CENTRIFUGAL PUMP. Patent dated Feb. 15, 1949. Disclaimer filed Mar. 18, 1952, by the assignee, *The Gorman-Rupp Company.*

Hereby enters this disclaimer to claims 1, 3, and 9 of said patent.

2,470,550.—*John Evans*, Hightstown, N. J. PULSE PRODUCING APPARATUS. Patent dated May 17, 1949. Disclaimer filed Mar. 12, 1952, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to claims 1 to 13, inclusive, of said patent.

2,522,930.—*Demetrius G. Chakiris*, Dayton, Ohio. SIGNALING SYSTEM FOR DRIVE-IN THEATERS. Patent dated Sept. 19, 1950. Disclaimer filed Mar. 19, 1952, by the inventor; the assignee, *Autocrat Inc.*, consenting.

Hereby enters this disclaimer to claims 3, 5, and 10 of said patent.

Adverse Decisions in Interference

Where the claims of a patent are affected by adverse decision or concession of priority as the result of an interference, a notice as to the patented claims thus affected will be published in the OFFICIAL GAZETTE after final decision in the proceedings.

Amendment Filed by an Attorney Not of Record

When an amendment is filed, signed by an attorney whose power is not of record, he, as well as the applicant, should be notified that the amendment cannot be entered.

When the Examiner's letter is of such a character that the six months for amendment runs from the date of a previous action, a statement to that effect should be made at the end of the letter and the date from which the six months runs given.

No Notification by Examiner of Status of a Case Decided by Board

After any decision of the Board of Appeals, it is unnecessary and improper for the Examiner to notify the applicant of the status of the case unless asked to do so. Responsive action must be taken by the applicant on his own initiative within six months from the date of the decision.

Amendment After Allowance

The patentability of a claim submitted under rule 312 should ordinarily be apparent on inspection; and a statement by the Examiner that "It is not obvious that the claim is patentable" is accepted as sufficient reason for refusing admission of the amendment.

Trade-Mark Drawings

Substitute drawings will not be accepted in trade-mark applications unless required by the Examiner of Trade-Marks or correction of the original drawing would require that the mark be substantially entirely redrawn.

Notice—Attorney's Address

Many letters are being returned to this Office for lack of street address. The attorney's full post-office address should be given in every power of attorney. The prompt delivery of communications will thereby be facilitated.

Applicant's Address

The requirement of Rule 61, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Examiners' Letters and Amendments

Examiners are directed to recite in each letter in an application the date of the action by the applicant to which it is a reply, and applicants are requested to indicate in their actions on an application the date of the last Office letter.

Reservation Clauses Not Permitted

RULE 79. A reservation for a future application of subject-matter disclosed but not claimed in a pending application will not be permitted in the pending application.

Briefs in Appealed Cases

All briefs filed in this Office should have conspicuously placed thereon a statement designating the particular tribunal of the Patent Office to which the brief is addressed.

Photostat Copies

In ordering photostat copies of United States and foreign patents, when only the number of the patent is given, the whole patent, comprising specification and drawing, will be furnished, unless the order specifically states that the "specification only" or "drawing only" is required. Care should be taken in making out orders for foreign patents to give the year of the patent, as in old French and British patents the same number may appear in different years.

Amendments of Drawings

RULE 123. No change in the drawing may be made except by permission of the Office. Permissible changes in the construction shown in any drawing may be made only by the Office. A sketch in permanent ink showing proposed changes, to become part of the record, must be filed. The paper requesting amendments to the drawing should be separate from other papers. The drawing may not be withdrawn from the Office except for signature.

Substitute drawings will not ordinarily be admitted in any case unless required by the Office.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

General Electric Company offers the following 274 patents for non-exclusive licensing on reasonable terms, to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Department, General Electric Company, 1 River Road, Schenectady, N. Y.

The majority of these patents relate to electric valve systems and control circuits. Included among the remaining patents are: Measuring, testing, and indicating devices; solder, alloys, and surface treatment of metals; soldering and brazing methods; vacuum pumps; lighting systems; traffic analyzers; gas analyzers; electric motors; a cam gear structure for an instrument for calculating the functions of a variable; magnetic clutch; fluid dispensing apparatus for filling automobile tanks; gas liquefying apparatus of the regenerative type; method and apparatus for applying metal coatings to surfaces to obtain reflecting mirrors, metal coated paper, etc.; mirror for projectors; method of molding synthetic resins; treatment of metals to prevent corrosion; ship propulsion system; electron microscope; a timer for determining distances or altitude by the sound echo method for use on aeroplanes; heating apparatus and system for electrically heating plant bulbs to destroy nematodes or worms; a Geiger counter; a parachute; stroboscopic apparatus; rail inspection apparatus; supersonic wind tunnel. Reg. Nos. 47,019 through 47,292.

Pat. 1,998,332. Heating Apparatus and System. Apr. 16, 1935. Groups 35—22; 36—21.

Pat. 1,998,938. Control System. Apr. 23, 1935. Group 36—19.

Pat. 1,999,013. Electric Power Converting Apparatus. Apr. 23, 1935. Group 36—19.

Pat. 2,000,758. Timer. May 7, 1935. Group 36—19.

Pat. 2,001,567. Electric Valve Translating Circuit. May 14, 1935. Group 36—19.

Pat. 2,004,778. Electric Valve Converting Apparatus. June 11, 1935. Group 36—19.

Pat. 2,006,979. Electric Valve Excitation Circuits. July 2, 1935. Group 36—19.

Pat. 2,007,772. Magnetic Testing Apparatus. July 9, 1935. Group 36—13.

Pat. 2,007,890. Voltage Regulator for Electrostatic Machines. July 9, 1935. Group 36—19.

Pat. 2,008,533. Electric Valve Converting System. July 16, 1935. Group 36—19.

Pat. 2,009,788. Electric Power Converting Apparatus. July 30, 1935. Group 36—19.

Pat. 2,009,826. Light Modulation System. July 30, 1935. Group 36—19.

Pat. 2,009,833. Electric Power Converting Apparatus. July 30, 1935. Group 36—19.

Pat. 2,009,834. Electric Valve Converting Apparatus. July 30, 1935. Group 36—19.

Pat. 2,010,697. Peak Voltage Measuring Device. Aug. 6, 1935. Group 36—13.

Pat. 2,013,454. Electric Power Transmission. Sept. 3, 1935. Group 36—19.

Pat. 2,014,957. Stroboscopic Apparatus. Sept. 17, 1935. Groups 36—19; 39—13.

Pat. 2,016,906. Sound Wave Apparatus. Oct. 8, 1935. Group 36—62.

Pat. 2,016,907. Sound Wave Apparatus. Oct. 8, 1935. Group 36—62.

Pat. 2,016,978. Electric Gauge. Oct. 8, 1935. Group 36—13.

Pat. 2,017,708. Polyphase Oscillator. Oct. 15, 1935. Group 36—61—62.

Pat. 2,018,463. Sonic Locator System. Oct. 22, 1935. Group 36—61.

Pat. 2,023,228. Magnetic Flux Generation and Magnetic Testing. Dec. 3, 1935. Group 36—13.

Pat. 2,026,358. Electric Valve Converting Apparatus. Dec. 31, 1935. Group 36—19.

Pat. 2,026,407. Lighting System. Dec. 31, 1935. Group 36—31.

Pat. 2,027,846. Reversible Shaded Pole Motor. Jan. 14, 1936. Group 36—19.

Pat. 2,032,245. Flow Meter. Feb. 25, 1936. Group 36—13.

Pat. 2,034,126. Electric Valve Converting System. Mar. 17, 1936. Group 36—19.

Pat. 2,034,524. Electric Valve Converting System and Excitation Apparatus Therefor. Mar. 17, 1936. Group 36—19.

Pat. 2,036,843. Electric Valve Converting System. Apr. 7, 1936. Group 36—19.

Pat. 2,036,844. Electric Valve Converting System. Apr. 7, 1936. Group 36—19.

Pat. 2,039,043. Electric Regulating System. Apr. 28, 1936. Group 36—19.

Pat. 2,043,844. Electric Control Circuits. June 9, 1936. Group 36—19.

Pat. 2,050,035. Reflector and Method of Designing Same. Aug. 4, 1936. Group 36—51.

Pat. 2,052,404. Fluid Dispensing Apparatus. Aug. 25, 1936. Groups 35—61; 38—31.

Pat. 2,054,670. Electric Valve Converting Apparatus. Sept. 15, 1936. Group 36—19.

Pat. 2,057,531. Electric Indicating System. Oct. 13, 1936. Group 36—13.

Pat. 2,059,001. System of Electrical Distribution. Oct. 27, 1936. Group 36—19.

Pat. 2,059,002. System of Electrical Distribution. Oct. 27, 1936. Group 36—19.

Pat. 2,059,832. Electric Power Converting Apparatus. Nov. 3, 1936. Group 36—19.

Pat. 2,060,650. Electric Power Converting Apparatus. Nov. 10, 1936. Group 36—19.

Pat. 2,063,648. Electric Valve Rectifying System. Dec. 8, 1936. Group 36—19.

Pat. 2,070,446. Thyratron Inverter Stabilizer. Feb. 9, 1937. Group 36—19.

Pat. 2,071,189. Electric Valve Converting System. Feb. 16, 1937. Group 36—19.

Pat. 2,071,190. Electric Power Transmission. Feb. 16, 1937. Group 36—19.

Pat. 2,071,191. Differential Pressure Operated Instrument. Feb. 16, 1937. Group 36—13.

Pat. 2,071,968. Electric Valve Converting System. Feb. 23, 1937. Group 36—19.

Pat. 2,077,206. Alternating Current Motor System. Apr. 13, 1937. Group 36—19.

Pat. 2,078,791. Electric Valve Translating Circuit. Apr. 27, 1937. Group 36—19.

Pat. 2,080,250. Electric Valve Circuit. May 11, 1937. Group 36—19.

Pat. 2,084,159. Electric Valve System. June 15, 1937. Group 36—19.

Pat. 2,084,904. Electric System. June 22, 1937. Group 36—19.

Pat. 2,088,437. Gas Liquefying Apparatus. July 27, 1937. Group 35—84.

Pat. 2,089,872. Electric Valve Converting Apparatus. Aug. 10, 1937. Group 36—19.

Pat. 2,092,545. Electric Valve Translating Circuit. Sept. 7, 1937. Group 36—19.

Pat. 2,092,546. Electric Translating Circuit. Sept. 7, 1937. Group 36—19.

Pat. 2,092,632. Viscosimeter. Sept. 7, 1937. Group 36—13.

Pat. 2,092,640. Device for Measuring the Densities or Pressures of Fluids. Sept. 7, 1937. Group 36—13.

Pat. 2,093,342. Electric Control and Indicating System. Sept. 14, 1937. Group 36—13—19.

Pat. 2,093,883. Electric Valve Circuit. Sept. 21, 1937. Group 36—19.

Pat. 2,094,792. Electric Valve Converting System. Oct. 5, 1937. Group 36—19.

Pat. 2,094,793. Electric Valve Converting System. Oct. 5, 1937. Group 36—19.

Pat. 2,094,794. Constant Current to Constant Potential Inverter. Oct. 5, 1937. Group 36—19.

Pat. 2,094,819. Electric Valve Converting System. Oct. 5, 1937. Group 36—19.

Pat. 2,094,820. Electric Valve Converting System. Oct. 5, 1937. Group 36—19.

Pat. 2,094,821. Electric Valve Converting System. Oct. 5, 1937. Group 36—19.

Pat. 2,094,822. Electric Valve Converting System. Oct. 5, 1937. Group 36—19.

Pat. 2,095,106. Electric Control System. Oct. 5, 1937. Group 36—19.

Pat. 2,095,827. Electric Valve Translating System. Oct. 12, 1937. Group 36—19.

Pat. 2,098,023. Electric Valve Translating Circuits. Nov. 2, 1937. Group 36—19.

Pat. 2,098,064. Magnetic Testing Device. Nov. 2, 1937. Group 36—13.

Pat. 2,099,561. Electric Valve Converting Apparatus. Nov. 16, 1937. Group 36—19.

Pat. 2,100,881. Signal System. Nov. 30, 1937. Group 36—62.

Re. 20,568. Alternating Current Motor System. Dec. 7, 1937. (Original No. 2,077,206, dated Apr. 13, 1937.) Group 36—19.

Pat. 2,103,164. Electric Valve Circuit. Dec. 21, 1937. Group 36—19.

Pat. 2,103,903. Electric Valve Converting System. Dec. 28, 1937. Group 36—19.

Pat. 2,103,996. Constant-Current Magnetic Bridge. Dec. 28, 1937. Group 36—19.

Pat. 2,104,633. Electric Valve Circuits. Jan. 4, 1938. Group 36—19.

Pat. 2,104,690. Electric Valve Circuits. Jan. 4, 1938. Group 36—19.

Pat. 2,108,641. Surface Treatment of Materials. Feb. 15, 1938. Group 33—75.

Pat. 2,110,656. Electric Valve Circuit. Mar. 8, 1938. Group 36—19.

Pat. 2,110,688. Electric Valve Circuit. Mar. 8, 1938. Group 36—19.

Pat. 2,112,051. Electric Control System. Mar. 22, 1938. Group 36—19.

Pat. 2,114,192. Electric Valve Converting System. Apr. 12, 1938. Group 36—19.

Pat. 2,114,193. Electric Valve Converting System. Apr. 12, 1938. Group 36—19.

Pat. 2,114,856. Electric Valve Converting System. Apr. 19, 1938. Group 36—19.

Pat. 2,114,889. Rail Inspection Apparatus. Apr. 19, 1938. Group 36—13.

Pat. 2,119,377. Electric Power Transmission System. May 31, 1938. Group 36—19.

Pat. 2,120,097. Electric Valve Converting System. June 7, 1938. Group 36—19.

Pat. 2,122,271. Electric Valve Converting System. June 28, 1938. Group 36—19.

Pat. 2,122,282. Electric Valve Translating System. June 28, 1938. Group 36—19.

Pat. 2,125,096. Electric Power Transmission System. July 26, 1938. Group 36—19.

Pat. 2,125,097. Electric Power System. July 26, 1938. Group 36—19.

Pat. 2,125,115. Electric Power System. July 26, 1938. Group 36—19.

Pat. 2,126,523. Protective System for Electric Valve Circuits. Aug. 9, 1938. Group 36—19.

Pat. 2,126,603. Electric Valve Circuits. Aug. 9, 1938. Group 36—19.

Pat. 2,126,604. Electric Power Transmission. Aug. 9, 1938. Group 36—19.

Pat. 2,130,411. Electric Control and Indicating Circuits. Sept. 20, 1938. Group 36—19.

Pat. 2,130,412. Electric Control and Indicating Circuits. Sept. 20, 1938. Group 36—19.

Pat. 2,130,429. Electric Valve Circuits. Sept. 20, 1938. Group 36—19.

Pat. 2,130,440. Electric Valve Circuits. Sept. 20, 1938. Group 36—19.

Pat. 2,130,443. Electric Control and Indicating System. Sept. 20, 1938. Group 36—19.

Pat. 2,130,890. Starting of Thyratron Motors. Sept. 20, 1938. Group 36—19—41.

Pat. 2,133,857. Electric Valve Circuit. Oct. 18, 1938. Group 36—19.

Pat. 2,135,268. Discharge Lamp System. Nov. 1, 1938. Groups 36—51; 39—12.

Pat. 2,137,126. Electric Valve Circuit. Nov. 15, 1938. Group 36—19.

Pat. 2,137,148. Electric Valve Circuits. Nov. 15, 1938. Group 36—19.

Pat. 2,137,177. Magnetic Tester. Nov. 15, 1938. Group 36—13.

Pat. 2,140,395. Testing of Electric Circuits. Dec. 13, 1938. Group 36—13.

Pat. 2,141,922. Electric Valve Translating Circuit. Dec. 27, 1938. Group 36—19.

Pat. 2,143,723. Method and Apparatus for Applying Metal Coatings. Jan. 10, 1939. Group 33—75.

Pat. 2,145,732. Mirror. Jan. 31, 1939. Groups 32—31; 39—13.

Pat. 2,146,571. Direct Current Power Transmission System. Feb. 7, 1939. Group 36—19.

Pat. 2,146,610. Electric Valve Circuit. Feb. 7, 1939. Group 36—19.

Pat. 2,147,481. Electrical Resistor. Feb. 14, 1939. Group 36—19.

Pat. 2,148,384. Transmission System. Feb. 21, 1939. Group 36—19.

Pat. 2,150,776. Traffic Analyzer. Mar. 14, 1939. Group 36—13—62.

Pat. 2,151,560. Electric Valve Converting System. Mar. 21, 1939. Group 36—19.

Pat. 2,152,457. Electric Circuit. Mar. 28, 1939. Group 36—19.

Pat. 2,155,251. Electric Valve Circuits. Apr. 18, 1939. Group 36—19.

Pat. 2,156,074. Energizing Circuit for Unilaterally Conducting Devices. Apr. 25, 1939. Group 36—19.

Pat. 2,157,929. Surge Generator. May 9, 1939. Group 36—19.

Pat. 2,159,827. Electric Valve Converting System. May 23, 1939. Group 36—19.

Pat. 2,166,801. Dynamo-Electric Machine. July 18, 1939. Group 36—19.

Pat. 2,168,170. Control System. Aug. 1, 1939. Group 36—19.

Pat. 2,169,098. Method for Soft Soldering Alloys Containing Aluminum. Aug. 8, 1939. Group 34—39.

Pat. 2,169,866. Electric Control and Indicating Means. Aug. 15, 1939. Group 36—19.

Pat. 2,170,450. Illuminating Circuits. Aug. 22, 1939. Group 36—51.

Pat. 2,175,020. Protective Arrangement for Electric Valve Converting Systems. Oct. 3, 1939. Group 36—19.

Pat. 2,178,432. Method of and Apparatus for Producing a Variable Alternating Current. Oct. 31, 1939. Group 36—19.

Pat. 2,178,433. Method of and Apparatus for Generating Alternating Current. Oct. 31, 1939. Group 36—19.

Pat. 2,178,438. Valve Converting System. Oct. 31, 1939. Group 36—19.

Pat. 2,179,366. Electric Valve Converting System. Nov. 7, 1939. Group 36—19.

Pat. 2,180,153. Cathode Ray Oscillograph Control. Nov. 14, 1939. Group 36—61—62—92.

Pat. 2,180,998. Electric Valve Converting System. Nov. 21, 1939. Group 36—19.

Pat. 2,181,724. Electrostatic Machine. Nov. 28, 1939. Group 36—19.

Pat. 2,181,728. Traffic Analyzer. Nov. 28, 1939. Group 36—13—62.

Pat. 2,185,819. Electric Valve Converting System. Jan. 2, 1940. Group 36—19.

Pat. 2,185,820. Electric Valve Converting System. Jan. 2, 1940. Group 36—19.

Pat. 2,190,527. Electric Valve Circuit. Feb. 13, 1940. Group 36—19.

Pat. 2,190,774. Electric Valve Circuit. Feb. 20, 1940. Group 36—19.

Pat. 2,190,775. Electric Valve Circuit. Feb. 20, 1940. Group 36—19.

Pat. 2,190,799. Starting Circuit for Electric Valve Apparatus. Feb. 20, 1940. Group 36—19.

Pat. 2,191,329. Indicating System. Feb. 20, 1940. Group 36—13.

Pat. 2,193,649. System of Electrical Distribution. Mar. 12, 1940. Group 36—19.

Pat. 2,193,912. Electric Valve Converting System. Mar. 19, 1940. Group 36—19.

Pat. 2,193,913. Electric Valve Frequency Converting System. Mar. 19, 1940. Group 36—19.

Pat. 2,193,914. Electric Valve Frequency Converting System. Mar. 19, 1940. Group 36—19.

Pat. 2,193,932. Electric Valve Converting System. Mar. 19, 1940. Group 36—19.

Pat. 2,193,933. Electric Valve Converting System. Mar. 19, 1940. Group 36—19.

Pat. 2,196,033. Molding Compound and Molded Article of Manufacture. Apr. 2, 1940. Group 28—83.

Pat. 2,196,034. High Melting Point Solder. Apr. 2, 1940. Group 34—39.

Pat. 2,198,486. Electric Valve Control System. Apr. 23, 1940. Group 36—19.

Pat. 2,201,049. Glass Fabrication Process and Mold. May 14, 1940. Group 32—29.

Pat. 2,202,720. Electric Valve Converting System. May 28, 1940. Group 36—19.

Pat. 2,202,726. Electric Valve Circuit. May 28, 1940. Group 36—19.

Pat. 2,202,727. Electric Valve Circuit. May 28, 1940. Group 36—19.

Pat. 2,202,728. Electric Valve Circuit. May 28, 1940. Group 36—19.

Pat. 2,208,182. Electric Power Transmission System. July 16, 1940. Group 36—19.

Pat. 2,208,183. Electric Power Transmission System. July 16, 1940. Group 36—19.

Pat. 2,208,439. High Intensity Light Source. July 16, 1940. Group 36—19—51.

Pat. 2,208,444. Apparatus for Regulating Viscosity. July 16, 1940. Group 36—13.

Pat. 2,210,785. Electric Valve Converting Apparatus. Aug. 6 1940. Group 36—19.

Pat. 2,215,313. Electric Valve Converting System and Control Circuit Therefor. Sept. 17, 1940. Group 36—19.

Pat. 2,218,383. Electric Valve Converting System. Oct. 15, 1940. Group 36—19.

Pat. 2,219,200. Electric Valve Converting System. Oct. 22, 1940. Group 36—19.

Pat. 2,220,747. Electric Valve Converting System. Nov. 5, 1940. Group 36—19.

Pat. 2,220,861. Reduction of Surface Reflection. Nov. 5, 1940. Group 39—13.

Pat. 2,220,862. Low-Reflectance Glass. Nov. 5, 1940. Group 39—13.

Pat. 2,221,524. Electric Valve Circuit. Nov. 12, 1940. Group 36—19.

Pat. 2,222,700. Electric Valve Circuits. Nov. 26, 1940. Group 36—19.

Pat. 2,222,717. Electric Valve Circuits. Nov. 26, 1940. Group 36—19.

Pat. 2,223,165. Electric Valve Converting System. Nov. 26, 1940. Group 36—19.

Pat. 2,223,185. Electric Valve Circuits. Nov. 26, 1940. Group 36—19.

Pat. 2,225,328. Electric Power Converting Apparatus. Dec. 17, 1940. Group 36—19.

Pat. 2,225,355. Electric Valve Converting Apparatus. Dec. 17, 1940. Group 36—19.

Pat. 2,225,360. Electric Valve Frequency Converting System. Dec. 17, 1940. Group 36—19.

Pat. 2,225,917. Electron Discharge Device. Dec. 24, 1940. Group 36—61—62—92.

Pat. 2,226,275. Magnetic Thickness Gauge. Dec. 24, 1940. Group 36—13.

Re. 21,697. Electric Valve Translating Circuit. Jan. 21, 1941. (Original No. 2,141,922, dated Dec. 27, 1938.) Group 36—19.

Pat. 2,235,543. Electric Valve Circuit. Mar. 18, 1941. Group 36—19.

Pat. 2,236,254. Electric Valve Converting Apparatus. Mar. 25, 1941. Group 36—19.

Pat. 2,237,384. Electric Power System. Apr. 8, 1941. Group 36—19.

Pat. 2,239,436. Frequency Controlling System. Apr. 22, 1941. Group 36—19.

Pat. 2,239,437. Electric Valve Converting Apparatus. Apr. 22, 1941. Group 36—19.

Pat. 2,240,201. Electric Transforming Apparatus. Apr. 29, 1941. Group 36—19.

Pat. 2,243,591. Electric Valve Converting Apparatus. May 27, 1941. Group 36—19.

Pat. 2,247,167. Electric Valve Circuits. June 24, 1941. Group 36—19.

Pat. 2,247,785. Electric Valve Translating System. July 1, 1941. Group 36—19.

Pat. 2,247,793. Electric Valve Converting System. July 1, 1941. Group 36—19.

Pat. 2,248,614. Vacuum Measuring Device. July 8, 1941. Group 36—13.

Pat. 2,248,624. Electric Valve Control Circuits. July 8, 1941. Group 36—19.

Pat. 2,248,625. Electric Valve Control Circuit. July 8, 1941. Group 36—19.

Pat. 2,248,626. Electric Valve Circuit. July 8, 1941. Group 36—19.

Pat. 2,249,430. Condensation Vacuum Pump. July 15, 1941. Group 35—61.

Pat. 2,256,463. Speed Regulating System. Sept. 23, 1941. Group 36—19.

Re. 21,919. Electric Valve Circuit. Oct. 14, 1941. (Original No. 2,190,759, dated Feb. 20, 1940.) Group 36—19.

Pat. 2,259,108. Bearing Alloy. Oct. 14, 1941. Group 35—66.

Pat. 2,260,012. Electric Valve Circuit. Oct. 21, 1941. Group 36—19.

Pat. 2,263,306. Electric Valve Circuit. Nov. 18, 1941. Group 36—19.

Pat. 2,263,307. Electric Valve Circuit. Nov. 18, 1941. Group 36—19.

Pat. 2,266,566. Means for Measuring or Gauging the Size of Orifices or Articles. Dec. 16, 1941. Group 36—13.

Pat. 2,266,714. Electric Valve Control Circuits. Dec. 16, 1941. Group 36—19.

Pat. 2,267,398. Electric Valve Control Circuits. Dec. 23, 1941. Group 36—19.

Pat. 2,269,226. Cathode Ray Oscillograph Control. Jan. 6, 1942. Group 36—61—62—92.

Pat. 2,275,877. Electric Valve Converting Apparatus. Mar. 10, 1942. Group 36—19.

Pat. 2,276,739. Speed Measuring Apparatus. Mar. 17, 1942. Group 36—13.

Pat. 2,276,752. Electric Control Circuits. Mar. 17, 1942. Group 36—19.

Pat. 2,276,847. Method of Brazing. Mar. 17, 1942. Group 34—39.

Pat. 2,277,414. Electron Lens. Mar. 24, 1942. Groups 32—29; 39—13.

Pat. 2,279,005. Door Construction. Apr. 7, 1942. Group 35—84.

Pat. 2,279,268. Calorized Metal and Method for Producing the Same. Apr. 7, 1942. Group 33—75.

Pat. 2,280,524. Electrical Wave Analysis. Apr. 21, 1942. Group 36—13.

Pat. 2,285,182. Electric Motor Control System. June 2, 1942. Group 36—19.

Pat. 2,292,171. Electric Valve Operated Motor. Aug. 4, 1942. Group 36—19.

Pat. 2,296,030. Gas Analysis Apparatus. Sept. 15, 1942. Group 36—13.

Pat. 2,297,345. Surround for Projected Images. Sept. 29, 1942. Groups 34—82; 39—13.

Pat. 2,297,357. Method for Brazing High Carbon Steel. Sept. 29, 1942. Group 34—39.

Pat. 2,300,198. Peak Velocity Indicator. Oct. 27, 1942. Group 36—19.

Pat. 2,301,826. Oscillograph. Nov. 10, 1942. Group 36—19.

Pat. 2,303,869. Treatment of Metals. Dec. 1, 1942. Group 33—75.

Pat. 2,306,808. Electric Discharge Device. Dec. 29, 1942. Group 36—61.

Pat. 2,307,800. Gas Analyzer. Jan. 12, 1943. Group 36—13.

Pat. 2,310,105. Counter Circuit. Feb. 2, 1943. Group 36—19.

Pat. 2,310,111. Method of Determining the Porosity of Materials. Feb. 2, 1943. Group 36—13.

Pat. 2,310,742. Transformer. Feb. 9, 1943. Group 36—19.

Pat. 2,312,061. Electric Drive. Feb. 23, 1943. Group 36—19.

Pat. 2,312,062. Electric Drive. Feb. 23, 1943. Group 36—19.

Pat. 2,312,888. Magnetostriction Measuring Apparatus. Mar. 2, 1943. Group 36—13.

Pat. 2,313,526. Electric Circuit. Mar. 9, 1943. Group 36—19.

Pat. 2,316,550. Oscilloscope Scale. Apr. 13, 1943. Group 36—13.

Pat. 2,326,552. Astronomical Telescope. Aug. 10, 1943. Group 39—13.

Pat. 2,332,330. Method for Joining Aluminum Structures. Oct. 19, 1943. Group 34—41.

Pat. 2,332,337. Gas Analyzer. Oct. 19, 1943. Group 36—13.

Pat. 2,350,785. Electric Relay Means. June 6, 1944. Group 36—19.

Pat. 2,352,619. Electrical System. July 4, 1944. Group 36—19.

Pat. 2,352,620. Electrical System. July 4, 1944. Group 36—19.

Pat. 2,352,976. Light-Dividing Element. July 4, 1944. Group 39—13.

Pat. 2,355,482. Electric Circuit Breaker. Aug. 8, 1944. Group 36—19.

Pat. 2,357,087. Electric Ship Propulsion System. Aug. 29, 1944. Groups 36—19; 37—22.

Pat. 2,363,359. Electron Microscope. Nov. 21, 1944. Group 39—13.

Pat. 2,367,614. Regenerative Fluxmeter. Jan. 16, 1945. Group 36—13.

Pat. 2,377,175. Display Apparatus. May 29, 1945. Group 36—19.

Pat. 2,379,716. Magnetic Field Gradient Meter. July 3, 1945. Group 36—13.

Pat. 2,391,271. Flux Measurement. Dec. 18, 1945. Group 36—13.

Pat. 2,394,546. Aluminum Base Alloy Containing Copper and Beryllium and Method of Making the Same. Feb. 12, 1946. Group 34—41.

Pat. 2,399,955. Oscilloscope Wave Expansion. May 7, 1946. Group 36—13.

Pat. 2,401,450. Control System. June 4, 1946. Group 36—19.

Pat. 2,405,473. Cam Gear Structure. Aug. 6, 1946. Group 36—13.

Pat. 2,411,055. Magnetic Clutch. Nov. 12, 1946. Group 35—86.

Pat. 2,412,027. Control System. Dec. 3, 1946. Group 36—19.

Pat. 2,414,689. Follow-Up Control System. Jan. 21, 1947. Group 36—19.

Pat. 2,414,690. Positional Control System. Jan. 21, 1947. Group 36—19.

Pat. 2,414,919. Follow-Up Control System. Jan. 28, 1947. Group 36—19.

Pat. 2,414,936. Follow-Up Control System. Jan. 28, 1947. Group 36—19.

Pat. 2,416,562. Follow-Up System. Feb. 25, 1947. Group 36—19.

Pat. 2,419,464. Electronic Power Conversion Apparatus. Apr. 22, 1947. Group 36—92.

Pat. 2,432,811. Magnetic Testing Device. Dec. 16, 1947. Group 36—13.

Pat. 2,438,735. High-Frequency Wave Transmitting Apparatus. Mar. 30, 1948. Group 36—61.

Pat. 2,439,258. Vacuum Pump. Apr. 6, 1948. Group 35—61.

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Pat. 2,452,919. Electron Optical System. Nov. 2, 1948. Group 39—13.

Pat. 2,465,818. Device for Measuring Fiber Density of a Sliver. Mar. 29, 1949. Group 36—13.

Pat. 2,465,821. Thin-Walled Geiger-Mueller Counter. Mar. 29, 1949. Group 3[illegible]—11.

Pat. 2,468,554. Apparatus for Magnetic Field Investigation. Apr. 26, 1949. Group 36—13.

Pat. 2,475,640. Electric Quantity Standard. July 12, 1949. Group 36—19.

Pat. 2,488,277. Magnetic Wire Footage Meter. Nov. 15, 1949. Group 36—13.

Pat. 2,504,126. Cellometer Recorder. Apr. 18, 1950. Group 36—13.

Pat. 2,526,451. Rotary Wing Parachute and Controls. Oct. 17, 1950. Group 37—21.

Pat. 2,531,000. Erythemal Meter. Nov. 21, 1950. Group 36—13.

Pat. 2,532,822. Electrical Moisture Meter. Dec. 5, 1950. Group 36—13.

Pat. 2,542,299. Brightness Meter. Feb. 20, 1951. Group 36—61.

Pat. 2,542,638. Frequency Responsive Apparatus. Feb. 20, 1951. Group 36—61.

Pat. 2,570,129. Supersonic Wind Tunnel. Oct. 2, 1951. Group 37—22.

Patent Removed from Register

Pat. 2,090,519. Vacuum Circuit Interrupter. Published in OFFICIAL GAZETTE July 10, 1951.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 15, 1952

[VOL. 657. NO. 3]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 492,001. Sears, Roebuck and Co., Chicago, Ill. Filed Nov. 21, 1945.

FARM MASTER

The word "Farm" is disclaimed. The representation of the man is fanciful.

For Sheep Marking Paint.

Claims use since Apr. 14, 1942.

CLASS 37

PAPER AND STATIONERY

Ser. No. 526,045. Western Tablet & Stationery Corporation, Dayton, Ohio. Filed July 3, 1947. Under 10-year proviso.

GOLDEN ROD



For Paper Tablets.

Claims use since 1890 as to "Golden Rod"; and since Feb. 10, 1933, in the form shown.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 516,916. Portland Plastics Limited, London, England. Filed Feb. 4, 1947.

PORTEX

Applicant owns British Registrations Nos. 613,404, 626,861, 626,862, and 629,495.

For Artificial Parts of the Human Body, Tubing for Anaesthetic Airways, and Catheters, Blood Transfusions, Penicillin Administration, Gastric Analysis, and for Wound Drainage; Solid, Flexible Oesophageal, Urethral, and Uterine Bougies; Face-Pieces, Nasal Pieces, Gas Bags and Bellows, All for Anaesthetic Administrations, Tracheal Tubes, Tracheotomy Tubes, Laryngotomy Tubes and Valves; Surgical Dressings; Denture Plates, Linings and Obturators; Synthetic Resin Plastics for Making Dentures and for Stopping Teeth; Screens for Wear in the Mouth To Encourage Correct Breathing, and Links for Joining Severed Arteries.

Claims use since Dec. 20, 1943.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 561,276. Peter P. Volante, Newton Center, Mass. Filed July 13, 1948.



The portrait is that of the applicant.
For Celery Seeds for Planting Purposes.
Claims use since May 1, 1947.

Ser. No. 608,333. National Vulcanized Fibre Company, Wilmington, Del. Filed Jan. 4, 1951. (Sec. 2f.)

LEATHEROID

Applicant claims ownership of Registrations Nos. 237,231 and 54,832.
For Vulcanized Fibre, Sold in Sheets, Rods, and Tubes.
Claims use since May 1884.

Ser. No. 615,666. United States Plywood Corporation, New York, N. Y. Filed June 25, 1951.

KORINA

Applicant claims ownership of Registration No. 507,053.
For Logs.
Claims use since Apr. 13, 1948.

Ser. No. 616,019. John R. Evans & Company, Camden, N. J. Filed July 3, 1951.

EVATITE

Applicant claims ownership of Registration No. 534,239.
For Leather.
Claims use since Mar. 3, 1949.

Ser. No. 616,131. Alexander J. Russak, doing business under the name Russak's Research Company, Elmhurst, N. Y. Filed July 5, 1951.

MARVEL-CELLS SOAP ECONO-MISER

The words "Cells" and "Soap" are disclaimed.
For Natural or Synthetic Sponge Used as a Base Pad for Wet Soap.
Claims use since June 1948.

Ser. No. 616,405. Behm & Hagemann, Inc., Peoria, Ill. Filed July 13, 1951.

Lifetyme

The word "Brand" is disclaimed.
For Garden Seed, Vegetable Seed, Flower Seed, and Field Seed.
Claims use since July 1, 1947.

Ser. No. 617,167. Seaboard Seed Company, Philadelphia, Pa. Filed July 31, 1951.

TOWN-COUNTRY

For Lawn Grass Seed.
Claims use since 1947.

CLASS 2

RECEPTACLES

Ser. No. 592,742. American Rondo Corporation, New Haven, Conn. Filed Feb. 17, 1950.

RONDO

For Cardboard and Paperboard Partitioned Liners for Boxes and in Strip Form for Packaging Ampules, Tubes, Etc.
Claims use since Apr. 17, 1949.

Ser. No. 603,451. Ralph L. Kuss, Findlay, Ohio. Filed Sept. 12, 1950.

Kflex

The word "Flex" is disclaimed.
For Preformed Bags Made of Plastic, and Package Liners for Drums, Boxes, and the Like for Containing Liquids and Semi-Liquids, Especially During Shipment.
Claims use since June 1, 1950.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 584,215. Behr-Manning Corporation, Troy, N. Y. Filed Aug. 30, 1949. (Sec. 2f as to "Behr-Manning.")

BEHR-MANNING

For Abrasives of Both the Flexible and Inflexible Type.
Claims use since Aug. 8, 1928.

Ser. No. 590,379. Manufacturing Laboratories, Inc., Boston, Mass. Filed Jan. 5, 1950.

Man-Lab BRAND

The word "Brand" is disclaimed.
For Self-Polishing Floor Wax.
Claims use since Dec. 22, 1949.

Ser. No. 606,447. John W. Wilczewski, doing business as Universal Specialties Company, New York, N. Y. Filed Nov. 15, 1950.

ESTATE

For Wax Polishes for Floors, Furniture, and Metallic Surfaces, in Liquid, Cream, and Paste Form.
Claims use since April 1945.

Ser. No. 614,129. Behr-Manning Corporation, Troy, N. Y. Filed May 21, 1951.

RESINIZED

Applicant claims ownership of Registration No. 510,498.
For Coated Abrasives.
Claims use since Sept. 5, 1935.

Ser. No. 618,154. Candy & Company, Inc., Chicago, Ill. Filed Aug. 28, 1951.

CAND-DOX

For Self Polishing Wax.
Claims use since Aug. 6, 1951.

CLASS 5

ADHESIVES

Ser. No. 598,630. Behr-Manning Corporation, Troy, N. Y. Filed June 6, 1950.



For Adhesives—Namely, Protein Base Adhesives, Rubber Base Adhesives, Resin Base Adhesives, and Inorganic Base Adhesives and Adhesive Tapes.
Claims use since Apr. 14, 1950.

Ser. No. 598,631. Behr-Manning Corporation, Troy, N. Y. Filed June 6, 1950. (Sec. 2f as to "Behr.")

Behr-cat

For Adhesives—Namely, Protein Base Adhesives, Rubber Base Adhesives, Resin Base Adhesives, and Inorganic Base Adhesives and Adhesive Tapes.
Claims use since Apr. 14, 1950, as to the mark shown; and since 1878 as to "Behr."

Ser. No. 618,860. Monsanto Chemical Company, St. Louis, Mo. Filed Sept. 15, 1951. (Sec. 2f.)

NOCLAMP

Applicant claims ownership of Registration No. 547,616.
For Glue.
Claims use since Sept. 13, 1946.

Ser. No. 619,097. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Sept. 21, 1951.

3M

The word "Brand" is disclaimed. Applicant claims ownership of Registration No. 405,413.
For Adhesive Cements.
Claims use since June 1949 as to the mark shown; and since Oct. 13, 1931, as to "3M."

Ser. No. 619,143. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed Sept. 22, 1951.



The accompanying drawing is lined to indicate the colors red, green and black. Those squares in the drawing lined to indicate black are actually a screen printing of

green over red but give the appearance of black. The superimposed diagonal lines bisecting the green and screen printed squares are white in color. The superimposed diagonal lines bisecting the red and screen printed squares are green in color. The label outline shown forms no part of the trade-mark. Applicant claims ownership of Registrations Nos. 515,733, 536,381, and others.

For Pressure-Sensitive Adhesive Coated Abrasion Resistant Sheet Material for Making Stencils Used in Sandblasting.

Claims use since December 1947.

Ser. No. 619,148. Werner G. Smith, Inc., Cleveland, Ohio. Filed Sept. 22, 1951.

WERSMITH

For Core Binder Oils.

Claims use since Aug. 17, 1951.

Ser. No. 620,392. Katherine Borsella, doing business under the name of Webster Curio Shop, New York, N. Y. Filed Oct. 24, 1951.

Tony-Kit

For Mending Cement for Mending China, Glass, Marble, Wood, Leather, and the Like.

Claims use since Mar. 15, 1951.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 573,305. Central Chemical Company, Kansas City, Mo. Filed Feb. 4, 1949. (Classified in Class 18.) Applicant claims ownership of Registration No. 246,942. See this serial number in Class 18 for goods and mark. Claims use since June 15, 1938.

Ser. No. 604,327. Rezolin, Inc., Los Angeles, Calif. Filed Oct. 2, 1950.

8000

For Phenolic Plastic Resin.

Claims use since July 26, 1950.

Ser. No. 608,199. Cotton States Chemical Co., Inc., West Monroe, La. Filed Dec. 29, 1950.

COTTON STATES

For Emulsifiable Insecticide Concentrates.

Claims use since Mar. 4, 1950.

Ser. No. 608,200. Cotton States Chemical Co., Inc., West Monroe, La. Filed Dec. 29, 1950.



The words "Chemical Co., Inc." are disclaimed.

For Insecticide Concentrates.

Claims use since Mar. 4, 1950.

Ser. No. 618,919. General Dyestuff Corporation, New York N. Y. Filed Sept. 18, 1951.

BLANKIT

For Chemicals for Use as Reducing Agents, Particularly for Discharging or Bleaching Textile Material.

Claims use since May 18, 1926.

Ser. No. 618,923. General Dyestuff Corporation, New York, N. Y. Filed Sept. 18, 1951.

PEREGAL

For Chemicals for Use as Levelling and Stripping Agents in Textile Treatment.

Claims use since Jan. 5, 1934.

CLASS 7

CORDAGE

Ser. No. 617,159. Plymouth Cordage Company, Plymouth and North Plymouth, Mass. Filed July 31, 1951.

PLYMKRAFT

For Twisted Paper Cord and Twisted Paper and Fiber Twine.

Claims use since July 14, 1951.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 611,921. L. & H. Stern, Inc., New York, N. Y. Filed Mar. 28, 1951.

MEER-ACLE

For Smokers' Pipes.

Claims use since Jan. 30, 1951.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 569,727. Universal Atlas Cement Company, New York, N.Y. Filed Dec. 1 1948.



Applicant claims ownership of Registrations Nos. 286,046, 286,047, and others.

For Hydraulic Cements.

Claims use since May 1930.

Ser. No. 577,394. Maintenance Inc., Wooster, Ohio. Filed Apr. 19, 1949.

JET-ROC

The word "Roc" is disclaimed.

For Floor Patching Material Comprising a Mastic Which Includes as Ingredients Certain Aggregates, a Binding Substance, and Other Substances Derived From Coal Tar Pitch.

Claims use since Sept. 9, 1943.

Ser. No. 577,395. Maintenance Inc., Wooster, Ohio. Filed Apr. 19, 1949.

CARBO-TREAD

For Floor Patching and Resurfacing Materials Comprising an Emulsion of Asphalt, Certain Aggregates and Other Ingredients Applicable to Floor Surfaces as a Thick Coating.

Claims use since Sept. 9, 1943.

Ser. No. 593,655. Emoleum (Australia) Limited, Rozelle and Sydney, New South Wales, Australia. Filed Mar. 9, 1950.

EMASTAK

Priority under Sec. 44(d). Australian application filed Sept. 13, 1949, Registration No. 100,073, dated Sept. 13, 1949.

For Asphaltic Compounds and Emulsions for Use in the Surfacing and the Dressing of Surfaces of Roads, Pavements and Tennis Courts.

Ser. No. 596,500. Lockheed Aircraft Corporation, Burbank, Calif. Filed Apr. 28, 1950.

LOCKFOAM

For Expanded Cellular Synthetic Resin Plastics Having Structural and Thermal and Acoustical Insulating Properties.

Claims use since Mar. 9, 1950.

Ser. No. 597,511. Certain-teed Products Corporation, Ardmore, Pa. Filed May 16, 1950. (Sec. 2f—Additional evidence.)

BESTWALL

Applicant claims ownership of Registration No. 361,344.

For Composite Boards or Panels Made for the Most Part From Calcined Gypsum.

Claims use since Sept. 4, 1914.

Ser. No. 605,491. Plastic Products Company, Detroit, Mich. Filed Oct. 27, 1950. (Sec. 2f.)

STAZON PUTTY

The word "Putty" is disclaimed.

For Putty.

Claims use since May 16, 1939.

Ser. No. 612,063. Eutectic Welding Alloys Corporation, New York, N. Y. Filed Mar. 31, 1951.

"EUTECTO-MASK"

The word "Mask" is disclaimed.

For Putty-Like Material for Masking Purposes in Metal Joining Operations.

Claims use since Mar. 15, 1951.

Ser. No. 616,792. Biddle Putty Company, St. Louis, Mo. Filed July 23, 1951.

Cindw

For Glazing Compound.

Claims use since May 31, 1951.

Ser. No. 616,809. Associated Plywood Mills, Inc., Eugene, Oreg. Filed July 23, 1951.

Sea Swirl

For Lumber and Plywood.

Claims use since Apr. 20, 1951.

Ser. No. 617,361. Besser Manufacturing Company, Alpena, Mich. Filed Aug. 6, 1951.



For Sintered Aggregate Manufactured From Basic Raw Materials of Expansively Burned Clay, Cellular Shale, and Fuel and Useful in the Manufacture of Light Weight Concrete Building Block and Other Units.

Claims use since July 18, 1951.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 609,846. Cory Corporation, operating under the name Nicro Steel Products Co., Chicago, Ill. Filed Feb. 9, 1951.

NICRO

Applicant claims ownership of Registration No. 441,695.
For Coffee Making Apparatus Made of Base Metal—Viz., Coffee Makers and Parts Thereof, i. e., Upper Bowls, Lower Bowls, Mixing Bowls, and Coffee Tray Sets, i. e., Creamers, Sugars, Salt and Pepper Shakers in Matching Sets.
Claims use since May 1937.

Ser. No. 614,474. The Yorkshire Copper Works Limited, Stourton, Leeds, England. Filed May 28, 1951.

SEVA

Applicant claims ownership of British Registrations Nos. 569,511, dated June 16, 1936, 574,281, dated Jan. 8, 1937, and 579,863, dated Sept. 13, 1937.
For Metal Tubes—Namely, Tubes Made of Copper or Copper Alloy, Waste Pipes, and Condenser Tubes for Boilers.

Ser. No. 615,142. Sterling Hardware Manufacturing Company, Chicago, Ill. Filed June 13, 1951. (Sec. 2f.)

Sterling

For Various Items of Builders' Hardware — Namely, Door Hangers, Door Tracks, Door Stops, Door Latches, Door Pulls, Door Guides, Door Guide Strips, Door Stays, Window Operators, Window Hinges, Window Stays, Window Closers, Storm Sash Adjusters, Transom Operators, Ventilating Damper Operators.
Claims use since Jan. 1, 1939.

Ser. No. 619,949. Emil J. Paidar Company, Chicago, Ill. Filed Oct. 12, 1951. (Sec. 2f.)

Paidar

For Shampoo Bowls and Lavatories.
Claims use since Aug. 24, 1928.

Ser. No. 620,487. Automatic Pump & Softener Corporation, Rockford, Ill. Filed Oct. 26, 1951.

SOLOMATIC

For Multiple Port Valves of the Type Used for the Control of the Liquid Flow in Base Exchange Water Treatment Apparatus.
Claims use since Nov. 1, 1949.

Ser. No. 620,929. R. J. Pagliuso, doing business as Pagliuso Engineering Company, Glendale, Calif. Filed Nov. 6, 1951.

PAGCO

For Shower Heads.
Claims use since Nov. 9, 1949.

Ser. No. 621,038. Talon, Inc., Meadville, Pa. Filed Nov. 8, 1951.

NYLO-ZIP

The word "Zip" is disclaimed. Applicant claims ownership of Registration No. 427,468.
For Slide Fasteners and Components Therefor—Namely, Sliders, Pulls, Top and Bottom Stops, and Fastener Chain.
Claims use since Jan. 10, 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 618,669. Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Filed Sept. 12, 1951.

TELEMET

For Wire, Rods, Bars, Billets, Sheets, Strip, and Plates Made From Ferrous Alloys Capable of Being Sealed to Glass.
Claims use since Aug. 30, 1949.

CLASS 15

OILS AND GREASES

Ser. No. 604,169. Van Cleef Bros., Inc., Chicago, Ill. Filed Sept. 28, 1950.



The word "Brand" is disclaimed. The portrait is that of one Dee Balla and is employed as a part of the mark with her written consent, copy of which is filed with this application. The drawing is lined for the color orange-red. Applicant claims ownership of Registration No. 194,819.
For Graphite in Flake and Powder Form for Lubrication.
Claims use since February 1918.

Ser. No. 616,418. Eastman Kodak Company, Flemington, N. J., and Rochester, N. Y. Filed July 13, 1951.

Tenamene

Applicant claims ownership of Registration No. 431,958.
For Aromatic Amines, Alkyl Aminophenols, Alkylated Phenols, Alkylated Phenol Ethers, Phenol Ethers, Halogenated Phenol Ethers, and Condensation Products of Alkylene Diamines and Aromatic Aldehydes, for Use in Lubricating Oils, Motor Fuels, and Mineral Oils.
Claims use since Feb. 12, 1946.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 624,054. Seal-Peel, Inc., New York, N. Y., and Van Dyke City, Mich. Filed Jan. 24, 1952. (Sec. 2f.)

Seal-Peel

Applicant claims ownership of Registration No. 420,169.
For Resinous Plastic Solutions for Forming a Temporary Protective Strippable Coating on Articles of Merchandise During Shipping and Storage.
Claims use since Nov. 5, 1944.

Ser. No. 624,055. Seal-Peel, Inc., New York, N. Y., and Van Dyke City, Mich. Filed Jan. 24, 1952. (Sec. 2f.)

SEAL-PEEL

Applicant claims ownership of Registration No. 420,169.
For Resinous Plastic Solutions for Forming a Temporary Protective Strippable Coating on Articles of Merchandise During Shipping and Storage.
Claims use since Nov. 5, 1944.

Ser. No. 624,056. Seal-Peel, Inc., New York, N. Y., and Van Dyke City, Mich. Filed Jan. 24, 1952. (Sec. 2f.)

Seal-Peel

Applicant claims ownership of Registration No. 420,169.
For Resinous Plastic Solutions for Forming a Temporary Protective Strippable Coating on Articles of Merchandise During Shipping and Storage.
Claims use since May 15, 1946.

CLASS 17

TOBACCO PRODUCTS

Ser. No. 572,451. J. W. Roberts & Son Inc., Tampa, Fla. Filed Jan. 19, 1949.



The words "Tampa" and "Cuba" and the maps of the United States, Florida, and Cuba are disclaimed. Applicant claims ownership of Registration No. 521,898.
For Cigars
Claims use since October 1926.

Ser. No. 598,130. United States Tobacco Company, Flemington, N. J., and New York, N. Y. Filed May 25, 1950. (Sec. 2f.)

SCOTCH KING

For Snuff.
Claims use since Jan. 5, 1913.

Ser. No. 598,132. United States Tobacco Company, Flemington, N. J., and New York, N. Y. Filed May 25, 1950. (Sec. 2f.)



For Chewing Tobacco, Smoking Tobacco, and Snuff.
Claims use since Nov. 29, 1937.

Ser. No. 598,844. The Federal Cigar Company, Inc., Red Lion, Pa. Filed June 9, 1950.

FEDERAL JUDGE

For Cigars.
Claims use since July 13, 1917.

Ser. No. 617,911. El Primo Cigar Company, San Francisco, Calif. Filed Aug. 21, 1951.

Star and Garter

Applicant claims ownership of Registration No. 72,956.
For Cigars.
Claims use since Dec. 18, 1907.

Ser. No. 619,380. Bobrow Brothers, Inc., Philadelphia, Pa. Filed Sept. 29, 1951.

CLIVEDEN HALL

For Cigars.
Claims use since Dec. 6, 1929.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 568,466. Strong Cobb & Company, Inc., Cleveland, Ohio. Filed Nov. 9, 1948.

AMPICILLIN

For Automatic Ampule Injecting Device for One Time Use Consisting of an Ampule Connected to a Hypodermic Needle With a Flexible Tube, Containing a Brand of Procaine Penicillin G in Peanut Oil Suspended With an Emulsifying Agent.
Claims use since Oct. 15, 1948.

Ser. No. 572,914. Sylvia Nutrision, doing business as Nutrision Products Co., Pinehurst, N. C. Filed Jan. 27, 1949.

Trez

For Skin and Scalp Antiseptic, Mouth Antiseptic for Bleeding Gums.
Claims use since Nov. 26, 1947.

Ser. No. 573,305. Central Chemical Company, Kansas City, Mo. Filed Feb. 4, 1949.

Pheno-Cen

Applicant claims ownership of Registration No. 246,942.
For Chemical Solution for Use as a Germicide, Antiseptic, and Disinfectant for Use in the Disinfection of Surgical Instruments, Surgical Dressings, Bed Linens, Sleeping Garments, Towels, Rubber Goods, Floors, Walls, Beds, Furniture, Toilets, Urinals, Bathtubs, and Drains, and for Use on Shower Room Floors as a Preventative Against the Spread and the Causation of Athlete's Foot.
Claims use since June 15, 1938.

Ser. No. 596,591. The S. E. Massengill Company, Bristol, Tenn. Filed Apr. 29, 1950.

CHIROGILL

For Pharmaceutical Preparation Having Bronchial Sedative and Expectorant Action.
Claims use since Sept. 13, 1938.

Ser. No. 596,609. The S. E. Massengill Company, Bristol, Tenn. Filed Apr. 29, 1950.

THEOLAPHEN

For Pharmaceutical Preparation Designed for Application Whenever Coronary Dilatation, Diuresis, and Myocardial Stimulation Are Desired.
Claims use since June 1, 1939.

Ser. No. 600,831. Heyden Chemical Corporation, New York, N. Y. Filed July 18, 1950.

PENYLIUM

For Feed Supplement Added to Human or Animal Foods.
Claims use since June 17, 1949.

Ser. No. 602,583. The Upjohn Company, Kalamazoo, Mich. Filed Aug. 22, 1950.

Cortasperse

For Medicinal Preparation for the Treatment of Endocrine and Metabolic Diseases.
Claims use since July 18, 1950.

Ser. No. 617,610. Firmenich, Incorporated, New York, N. Y. Filed Aug. 13, 1951.

IRROZOL

For Natural and Synthetic Essential Oils, Aromatic Chemicals From Natural or Other Sources, Used as a Flavoring Material or an Ingredient in Medicines and Pharmaceutical Preparations.
Claims use since Jan. 7, 1930.

Ser. No. 617,666. Lock & Son, Mangum, Okla. Filed Aug. 14, 1951.

"LAHOMA"

For Healing Oil for External Use in the Treatment of Minor Cuts, Bruises, Sprains, Burns, Insect Bites, Etc.
Claims use since July 28, 1951.

Ser. No. 617,692. Bergman Laboratory, Houston, Tex. Filed Aug. 15, 1951.

SKINHYGN

For Preparation for External Application for Treatment of Athlete's Foot and Skin Irritations Affecting Other Parts of the Body.
Claims use since July 17, 1951.

Ser. No. 617,880. Key Products Inc., San Francisco, Calif. Filed Aug. 20, 1951.

7 KEYS

For Dietary Supplement in Pill Form.
Claims use since June 13, 1951.

Ser. No. 617,924. Thomas McGuigan, trading under the name Lucky 13 Company, Philadelphia, Pa. Filed Aug. 21, 1951.

LUCKY 13

For Liquid for the Treatment of Athlete's Foot.
Claims use since Mar. 28, 1950.

Ser. No. 618,068. Winthrop-Stearns Inc., New York, N. Y. Filed Aug. 24, 1951.

PLAQUENIL

For Antimalarial Preparation.
Claims use since July 17, 1951.

CLASS 19

VEHICLES

Ser. No. 506,960. Rolock, Incorporated, Fairfield, Conn. Original filed, act of 1905, Aug. 6, 1946; amended to application, under act of 1946, Principal Register, Apr. 14, 1948.

"George"

For Hand Trucks and Parts Thereof.
Claims use since Apr. 29, 1946.

Ser. No. 575,190. Caterpillar Tractor Co., Peoria, Ill. Filed Mar. 10, 1949.

CAT

Applicant claims ownership of Registrations Nos. 134,971 and 506,258.
For Dump-Wagons, Wheel Tractor-Dump-Wagon Combinations, and Structural Parts for Such Products.
Claims use since Feb. 17, 1949.

Ser. No. 576,468. Philip S. Newton, Oakland, Calif. Filed Apr. 1, 1949.

PHILTREX

For Glare Shields and Visors for Automobiles.
Claims use since Jan. 26, 1949.

Ser. No. 578,657. The White Motor Company, Cleveland, Ohio. Filed May 11, 1949. (Sec. 2f—Additional evidence.)

White

Applicant claims ownership of Registration No. 112,837.
For Motor Trucks.
Claims use since Oct. 15, 1948.

Ser. No. 578,658. The White Motor Company, Cleveland, Ohio. Filed May 11, 1949. (Sec. 2f—Additional evidence.)

White

Applicant claims ownership of Registration No. 112,837.
For Motor Trucks and Short Wheel Base Motorized Highway Vehicles for Drawing or Hauling Vans and Similar Conveyances.
Claims use since Sept. 1, 1948.

Ser. No. 578,659. The White Motor Company, Cleveland, Ohio. Filed May 11, 1949. (Sec. 2f.)

SUPER White POWER

Applicant claims ownership of Registration No. 112,837.
For Motor Trucks and Short Wheel Base Motorized Highway Vehicles for Drawing or Hauling Vans and Similar Conveyances.
Claims use since Jan. 3, 1941.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 609,620. Airborne Accessories Corporation, Hillside, N. J. Filed Feb. 5, 1951.

ROTORette

For Electrically Operated and Load Limit Switch Controlled Rotary Actuator Having Actuation in Both Directions in Partial Revolution and Limited by Externally Adjustable Mechanical Stops.
Claims use since Jan. 4, 1951.

Ser. No. 610,134. Mitchell Industries, Inc., Mineral Wells, Tex. Filed Feb. 15, 1951.

TWO FOLD

For Aircraft Antenna.
Claims use since Feb. 2, 1950.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 584,674. Kliko Corporation, Seattle, Wash. Filed Sept. 10, 1949.

KLIKO

For Electrically Operated Game of Chance Used in Retail Establishments as a Means for Stimulating Sales Wherein Lights Contained in Multiple Circuits Are Interchangeably Lit To Portray Predetermined Prize-Winning Combinations for Attracting Customers.
Claims use since Aug. 16, 1949.

Ser. No. 598,300. J. F. Gregory & Co., Kansas City, Mo. Filed May 29, 1950.

Magic Fish Lure.

Everything appearing on the drawing except the word "Magic" is disclaimed.
For Artificial Fish Lure.
Claims use since Mar. 18, 1950.

Ser. No. 609,431. Gerhard R. Beyer, New York, N. Y. Filed Jan. 31, 1951.

CRUSADER TOYS

The word "Toys" is disclaimed.
For Toys and Particularly Collapsible or Knockdown Structures.
Claims use since Nov. 10, 1950.

Ser. No. 618,471. Terri Lee, Inc., Lincoln, Nebr. Filed Sept. 6, 1951.

Linda Lee

The name "Linda Lee" is fanciful.
For Dolls.
Claims use since June 1, 1951.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 570,086. Be-Ge Manufacturing Co., Gilroy, Calif. Filed Dec. 7, 1948.

BE-GE

For Earth Working and Construction Equipment—Namely, Scrapers, Land Levelers for Use on Farms in Levelling Off the Surface of the Soil in Crop Fields Prior to the Preparation of the Soil for Planting, Bulldozers; Hydraulic Pumps and Hydraulic Power Cylinders.
Claims use since Nov. 1, 1934.

Ser. No. 578,874. George E. Failing Supply Company, Enid, Okla. Filed May 14, 1949.

MUDMASTER

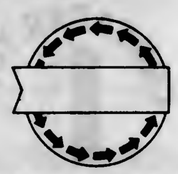
For Slush Pumps, Pump Pistons, Pump Piston Rods, and Pump Liners for Such Pumps.
Claims use since August 1937.

Ser. No. 589,145. Webb R. Charles, doing business under the name of Stello Products Co., Hutchinson, Kans. Filed Dec. 10, 1949.



The words "Oyl," "Fluid," and "Dispenser" are disclaimed.
For Hand Operated Grease and Oil Lubricator Pumps.
Claims use since July 15, 1949.

Ser. No. 606,457. Davis & Thompson Company, West Allis, Wis. Filed Nov. 16, 1950.



Applicant claims ownership of Registration No. 249,532.
For Metal Working Machines—Namely, Drilling Machines, Milling Machines, Boring Machines, Reaming Machines, Pipe-Threading Machines, Combined Milling and Center-Drilling Machines, Combined Milling, Drilling and Tapping Machines, Combined Milling and Spinning Machines, and Multiple Operation Machines for Performing Various Operations Such as Drilling, Chamfering, Reaming, and Sawing.
Claims use since July 31, 1944.

Ser. No. 609,092. David Levow, New York, N. Y. Filed Jan. 22, 1951.

RIVAL

For Roofing Tools—Namely, Roof Scrapers.
Claims use since May 1944.

Ser. No. 609,934. Lindeteves Inc., New York, N. Y. Filed Feb. 10, 1951.

Eltee

For Pistons and Parts Thereof, Engine Valves, Cylinder Sleeves, Water Pumps, Mufflers and Parts Therefor, Exhaust Pipes, Non-Portable Electric Drills, Non-Portable Drill Stands, Non-Portable Grinders, Saws, and Valve Seat Grinders.
Claims use since September 1950.

Ser. No. 618,553. Republic Hard Facing Corporation, Bedford, Ohio. Filed Sept. 8, 1951.

GOLD CROWN

For Motor Exhaust and Intake Valves.
Claims use since Dec. 19, 1949.

Ser. No. 618,673. Big Joe Manufacturing Co., Chicago, Ill. Filed Sept. 12, 1951.

BIG JOE

For Pneumatic Hand Power Lifting Trucks.
Claims use since May 1, 1951.

Ser. No. 619,425. The Wayne Pump Company, Fort Wayne, Ind. Filed Sept. 6, 1951. (Sec. 2f.)

Wayne

Applicant claims ownership of Registrations Nos. 80,295, 139,050, 139,227, and others.
For Pumps, Manually Operated or Power Driven, for Petroleum Products or Parts Thereof; Air Compressors, Power Driven, Including Parts Thereof; Air Dispensers for Transmitting Compressed Air, Including Hose and Hose Reels and Other Parts Thereof; Airport Refueling Units, Comprising Pumps and Dispensers for Petroleum Products, Including Cabinets, Reels, Hose and Other Parts Thereof; Cleansing and Washing Apparatus for Vehicles Such as Automobiles and the Like Comprising a Power Driven Pump Supplied With a Vacuum Cleaning Attachment and a Liquid Dispensing Hose; Hoists for Handling Vehicles, Platforms, Loading Docks and Similar Devices, and Parts Thereof; and Lifting Jacks, Manually Operated or Power Driven, and Parts Thereof.
Claims use since 1891.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 611,865. Tingue, Brown & Co., New York, N. Y. Filed Mar. 27, 1951.

BESTOS

For Protective Assemblies for Flatwork Ironer Rolls and Components Thereof Comprising Covers, Pads, and Binders.
Claims use since May 8, 1946.

CLASS 25

LOCKS AND SAFES

Ser. No. 576,242. Weiser Company, South Gate, Calif., assignor to Loyola University Foundation, Los Angeles, Calif., a corporation of California. Filed Mar. 28, 1949. (Sec. 2f—Additional evidence.)

WEISER

For Locking Devices—Namely, Inside Latch Sets, Inside Lock Sets, Inside Emergency Bath Lock Sets, Inside Closet Latch Sets, Key-in-Knob Lock Sets, Cylinder Grip Handle Lock Sets, Cylinder Knob Lock Sets, Cylinder Spring Latches, Cylinder Dead Locks, Dead Bolts, Entrance Latch and Cylinder Dead Lock Combinations, Entrance Latch and Cylinder Spring Latch Combinations, and Key Blanks.
Claims use since 1904.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 579,614. National Rejectors, Inc., St. Louis, Mo. Filed May 27, 1949.



The words "Coin Handling Perfection" are disclaimed.
For Coin Changers, Slug Rejectors, and Combinations Thereof for Use in Coin Operated Machines.
Claims use since Feb. 15, 1949.

Ser. No. 589,796. Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Filed Dec. 22, 1949.

CYCLOTROL

For Control Systems and Control Sets—Namely, a Control Panel Having a Relay Therein and a Thermostat for Controlling Valves or Oil Burners or Stokers in Response to Temperature Changes in Heating Systems, and Component Parts Thereof.
Claims use since Aug. 1, 1949.

Ser. No. 607,576. Byron Jackson Co., Los Angeles, Calif. Filed Dec. 12, 1950.

BJ

Applicant claims ownership of Registration No. 272,853.
For Weight Indicators for Determining Loads Suspended in Wells.
Claims use since Feb. 1, 1929.

Ser. No. 619,131. Beaurline Industries, Inc., St. Paul, Minn. Filed Sept. 22, 1951.

imp

For Cameras.
Claims use since Jan. 19, 1951.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 614,901. Shields, Inc. of Attleboro, Mass., New York, N. Y. Filed June 7, 1951. (Sec. 2f.)

Styled by Bliss

For Gold Plated Cuff Links, Tie Bars, Collar Pins, and Key Chains.
Claims use since 1873.

Ser. No. 616,383. National Silver Company, New York, N. Y. Filed July 12, 1951.

PAMELA

For Silverplated Flatware.
Claims use since May 10, 1951.

Ser. No. 616,937. Ed Cain, Chicago, Ill. Filed July 26, 1951.

LADY CAMILLE

For Jewelry, Consisting of Mountings, Wedding Rings, Diamond Rings, and Finger Rings.
Claims use since Feb. 1, 1941.

Ser. No. 616,938. Ed Cain, Chicago, Ill. Filed July 26, 1951.

PRINCESS CAMILLE

For Jewelry, Consisting of Mountings, Wedding Rings, Diamond Rings, and Finger Rings.
Claims use since Feb. 1, 1941.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 562,702. Great Lakes Carbon Corporation, New York, N. Y. Filed Aug. 3, 1948. (Sec. 2f.)

SPEEDFLOW

For Diatomaceous Earth in Finely Comminuted Form for Use as a Filter Aid.
Claims use since Jan. 1, 1930.

Ser. No. 608,567. President Consolidated Limited, Sydney, New South Wales, Australia. Filed Jan. 9, 1951.

PRESIDENT

Applicant claims ownership of Australian Registration No. 88,998, dated Mar. 4, 1948, filed Oct. 21, 1946.
For Gas, Electric, and Kerosene Operated Household Refrigerators and Refrigerator Units.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 548,807. Denison Mattress Factory, Denison, Tex. Filed Feb. 5, 1948.

DEN-MAT

For Lawn Chairs, Lawn Settees and Tables, Breakfast Tables and Chairs, Occasional Chairs and Tables, Studio Couches, Upholstered Chairs of the Type Adapted To Be Used in Homes and Offices and Similar Locations, Beds, Dinette Tables and Chairs, Mattresses of the Innerspring, Cotton Felt, Glass and Foam Rubber Types, Pillows, and Box Springs.
Claims use since July 1, 1939.

Ser. No. 595,170. The Statton Furniture Manufacturing Company, Hagerstown, Md. Filed Apr. 3, 1950.

STATTON
Trutype AMERICANA

The words "Statton" and "Trutype" are disclaimed. Applicant claims ownership of Registrations Nos. 415,641 and 300,988.
For Beds, Dressers, Chests, Dressing Tables, Mirrors, Night Stands, Dining and Dinette Tables, Buffets, Sideboards, Corner Cabinets, China Cabinets, Dining Room Chairs, Serving Tables, Occasional Tables, Book Cases, Coffee Tables, and Upholstered Chairs and Sofas.
Claims use since Mar. 28, 1950.

Ser. No. 597,437. Emeco Corporation, Hanover, Pa. Filed May 15, 1950.

EMECO

For Metal Furniture—Namely, Aluminum and Steel Chairs, Stools, Sofas, and Settees; and Metal Ship's Furniture—Namely, Deck Chairs, Ship's Mess Chairs, and Removable Lee Rails for Bunks.
Claims use since May 15, 1948.

Ser. No. 598,308. Kent-Coffey Manufacturing Company, Lenoir, N. C. Filed May 29, 1950.

The Kentshire

For Furniture—Namely, the Following Wooden Bedroom Furniture, To-Wit: Dressers, Vanities, Chests, Beds, Chestrobes, Nightstands, Chairs, Benches, Wardrobes, Chifforobes, Dresser Robes, Night Tables, Bedside Tables, Bedroom Desks, Chiffoniers, and Commodes.
Claims use since Apr. 25, 1950.

Ser. No. 606,231. Nellis Industries, Inc., New York, N. Y. Filed Nov. 10, 1950.

HALLMARK

For Kitchen Cabinets of Metal—Namely, Wall Cabinets, Base Cabinets, Broom Cabinets, Linen Cabinets, Lockers, and Wardrobes.
Claims use since May 3, 1950.

Ser. No. 609,285. Drexel Furniture Company, Drexel, N. C. Filed Jan. 26, 1951.

INSPIRATION

For Beds, Chests, Dressers, Vanities, Tables, Cabinets, Buffets, Chairs, Sofas, Desks, Mirrors, Benches, Servers.
Claims use since January 1950.

Ser. No. 610,328. Michigan Dock Company, Battle Creek, Mich., assignor to Michigan Dock and Manufacturing Company, Battle Creek, Mich., a corporation of Michigan. Filed Feb. 20, 1951.

EVEREZE

For Picnic Tables and Structural Parts Thereof.
Claims use since Sept. 12, 1950.

Ser. No. 613,699. Berkeley Industries, Jersey City, N. J. Filed May 10, 1951.

TABLE ON THE SPOT

The word "Table" is disclaimed.
For Tables.
Claims use since Apr. 12, 1951.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 591,148. Cribben and Sexton Company, Chicago, Ill. Filed Jan. 20, 1950. (Sec. 2f—Additional evidence.)

BROCKTON

For Stoves and Ranges.
Claims use since July 5, 1949.

Ser. No. 610,849. Jeddo-Highland Coal Company, Jeddo, Pa., assignor to Anthracite Equipment Corporation, Wilkes-Barre, Pa., a corporation of Delaware. Filed Mar. 5, 1951.

Anthra-Hearth

The word "Hearth" is disclaimed. Assignee claims ownership of Registration No. 532,537.
For Fireplace Grill and/or Grate.
Claims use since Oct. 24, 1950.

Ser. No. 610,983. Laundair Corporation, Merriam, Kans. Filed Mar. 7, 1951.

LAUNDAIR

For Air Dehumidifier Apparatus for Circulating and Controlling the Moisture Content of Air.
Claims use since Jan. 15, 1951.

Ser. No. 612,942. Auto-Flo Corporation, Detroit, Mich. Filed Apr. 21, 1951.

AUTO-FLO

The word "Flo" is disclaimed.
For Humidifiers for Heating Systems.
Claims use since Apr. 4, 1951.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 604,096. Johns-Manville Corporation, New York, N. Y. Filed Sept. 27, 1950.

CHEMPAC

For Machinery Packing Especially Manufactured To Withstand the Corrosive Action of Chemicals.
Claims use since Aug. 10, 1950.

Ser. No. 617,805. Merchants Distributors, Inc., Boston, Mass. Filed Aug. 17, 1951.

MERCHANTS *Bonded* TREAD

The term "Bonded Tread" is disclaimed.
For Pneumatic Tires.
Claims use since June 1, 1951.

CLASS 37

PAPER AND STATIONERY

Ser. No. 536,385. Hollingsworth & Whitney Company, Boston, Mass. Filed Oct. 1, 1947. (Sec. 2f.)

SOMERSET

For Tag Paper.
Claims use since August 1934.

Ser. No. 572,539. Wilson Memindex Company, Rochester, N. Y. Filed Jan. 21, 1949. (Sec. 2f—Additional evidence.)

Planning Guide

For Calendar Pads.
Claims use since May 31, 1946.

Ser. No. 588,788. Columbian Art Works, Inc., Milwaukee, Wis. Filed Dec. 5, 1949.

COLUMBIAN

For Blank Checks, Desk Calendars, Desk Calendar Pads, Refills, and Stands for Desk Calendars.
Claims use since Aug. 27, 1927.

Ser. No. 605,417. Gulf States Paper Corporation, Tuscaloosa, Ala. Filed Oct. 25, 1950. (Sec. 2f.)

KHAKI KRAFT

The word "Kraft" is disclaimed. Applicant claims ownership of Registration No. 515,959.
For Wrapping Paper and Butcher's Paper.
Claims use since October 1929.

Ser. No. 607,284. The Champion Paper and Fibre Company, Hamilton, Ohio. Filed Dec. 5, 1950. (Sec. 2f.)

CHAMPION

Applicant claims ownership of Registrations Nos. 444,048, 225,583, and others.
For Paper and Paper Board—Namely, Uncoated, Coated, and Cast-Coated Paper Suitable for Printing; Uncoated, Coated, and Cast-Coated Bristol Board, Cardboard, and Paperboard; Envelope Paper, Cover Paper, Box Cover Paper, Aniline Printed Paper, Bond Paper, Bag Paper, Drawing Paper, Drapery Paper, End Leaf Paper, Foil Liner Paper, Hanging Paper, Liquid and Food Container Stock Paper; Liquid and Food Container Stock Board, Mimeograph Paper, Papeterie Paper, Press Board, Red Patch Paper, Stencil Board, Waxing Paper, Window Shade Paper, Wrapping Paper, Writing Paper.
Claims use since May 1894.

Ser. No. 609,771. A. F. A. Learn and Earn System, Evansville, Ind. Filed Jan. 22, 1951.

A.F.A. LEARN-EARN SYSTEM
EDUCATION THE GREATEST INDUSTRY IN THE WORLD

The word "System" and the slogan "Education the Greatest Industry in the World" are disclaimed. Applicant claims ownership of Registration No. 280,512.
For Partially Printed Forms.
Claims use since Mar. 26, 1928.

Ser. No. 609,879. Pentex Corporation, New York, N. Y. Filed Feb. 9, 1951.

PENTEX PRODUCTS
PROFESSIONALLY ACCEPTED

The words "Products" and "Professionally Accepted" are disclaimed. The drawing is lined for green.
For Draping Sheets, Head Rest Covers, Towels, Bracket Table Covers, All Made of Paper or Paper Stock.
Claims use since May 27, 1948.

Ser. No. 614,984. Columbia Ribbon & Carbon Manufacturing Company, Inc., Glen Cove, N. Y. Filed June 9, 1951.

Colitho

For Pencils.
Claims use since July 3, 1946.

Ser. No. 619,687. Star-Peerless Wall Paper Mills, Chicago, Ill. Filed Oct. 6, 1951.

ARISTOCRAT WALL PAPERS

The words "Wall Papers" are disclaimed. Applicant claims ownership of Registrations Nos. 318,045 and 409,097.
For Wall Paper.
Claims use since July 10, 1939.

Ser. No. 619,689. Alice S. Towle, doing business as Aljo Books, Cincinnati, Ohio. Filed Oct. 6, 1951.

Not Again!

For Partially Printed Menu Record Books.
Claims use since Aug. 10, 1951.

Ser. No. 619,867. The Barton, Duer & Koch Paper Company, Baltimore, Md. Filed Oct. 11, 1951. (Sec. 2f.)

Green Spring

Applicant claims ownership of Registration No. 420,465.
For Printing Paper and Correspondence Envelopes.
Claims use since Oct. 12, 1920.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 554,537. United Feature Syndicate, Inc., New York, N. Y. Filed Apr. 13, 1948. (Sec. 2f.)

FEARLESS FOSDICK

The mark is the name of a fictitious character.
For Comic Drawings, Published in Daily and Sunday Newspapers.
Claims use since Jan. 30, 1948.

Ser. No. 562,979. Advertising Division, Inc., Chicago, Ill., assignee of Advertising and Business Development Division. Filed Aug. 7, 1948.

HOME LIFE

For Publications Prepared for Circulation and Circulated by Others Than Applicant as House Organs by Savings and Loan Institutions, Homestead Associations, and Cooperative Banks.
Claims use since July 1937.

Ser. No. 596,299. San-Jo Creations, Inc., New York, N. Y. Filed Apr. 25, 1950.

shi-nelle

For Decorative Displays in the Nature of Pictures Formed by Combining Artificial Decorative Flowers or Insects With Shadow Box Frames, Sold as a Complete Unit.
Claims use since Mar. 20, 1950.

Ser. No. 607,865. Frank S. Milburn, Cincinnati, Ohio. Filed Dec. 19, 1950.

MELODY MITES

The word "Melody" is disclaimed.
For Newspaper Column.
Claims use since Nov. 24, 1950.

Ser. No. 608,224. Richard E. Robinson, Flushing, N. Y. Filed Dec. 29, 1950.

PALMYSTERY

For Charts for Reading the Hand.
Claims use since Nov. 28, 1950.

Ser. No. 610,217. International Telephone and Telegraph Corporation, New York, N. Y. Filed Feb. 17, 1951.

INTERNATIONAL TELEPHONE AND TELEGRAPH

The drawing is lined for shading. Applicant claims ownership of Registration No. 204,896.
For House Organs Published Periodically.
Claims use since Mar. 22, 1950.

Ser. No. 613,983. Fairchild Publications, Inc., New York, N. Y. Filed May 17, 1951. (Sec. 2f.)

Papers of the
AMERICAN ASSOCIATION
OF
TEXTILE TECHNOLOGISTS

For Magazine Issued Quarterly.
Claims use since Jan. 5, 1946.

Ser. No. 615,996. Publishers Syndicate, Chicago, Ill. Filed July 2, 1951.

KERRY DRAKE

The name "Kerry Drake" is that of a fictitious person. Applicant claims ownership of Registration No. 419,673.
For Comic Strip.
Claims use since Aug. 6, 1943.

Ser. No. 617,204. National Comics Publications, Inc., New York, N. Y. Filed Aug. 1, 1951.

HERE'S HOWIE

For Periodical Publication.
Claims use since July 9, 1951.

Ser. No. 617,526. Allied Chemical & Dye Corporation, New York, N. Y. Filed Aug. 10, 1951.

FARM-AID NEWS

The word "News" is disclaimed.
For Pamphlets or Leaflets Issued From Time to Time.
Claims use since 1948.

Ser. No. 618,158. Fairchild Publications, Inc., New York, N. Y. Filed Aug. 28, 1951. (Sec. 2f.)

Footwear News

Applicant claims ownership of Registrations Nos. 433,823, 410,389, and 410,390.
For Weekly Newspaper.
Claims use since Oct. 6, 1945.

Ser. No. 618,225. Anvil Brand, Incorporated, High Point, N. C. Filed Aug. 30, 1951.

SPARKS

The drawing is lined for shading.
For House Organ Issued Periodically.
Claims use since Oct. 1, 1932.

Ser. No. 618,301. Norman Malone & Associates, Akron, Ohio. Filed Aug. 31, 1951. (Sec. 2f.)

Timely Notes

For Monthly Periodical Devoted to the Dissemination of Items of News and General Interest for Use in Radio Broadcasts.
Claims use since August 1945.

Ser. No. 619,219. United Newspapers Magazine Corporation, New York, N. Y. Filed Sept. 25, 1951.

GLIDOGRAM

For Newspaper or Magazine Feature in the Nature of a Puzzle.
Claims use since May 30, 1948.

Ser. No. 619,308. Otto Muller, doing business as Triological Institute, New York, N. Y. Filed Sept. 27, 1951.

Science of Life

For Weekly Publication Containing Metaphysic Religious Subject Matter.
Claims use since January 1942.

Ser. No. 619,310. Penguin Books, Inc., Baltimore, Md. Filed Sept. 27, 1951.

PENGUIN

For Books.
Claims use since 1940.

Ser. No. 619,323. Academy of Motion Picture Arts and Sciences, Hollywood, Calif. Filed Sept. 28, 1951.



For Books, Pamphlets, and Other Publications Issued From Time to Time.
Claims use since May 16, 1929.

Ser. No. 619,344. Tut LeBlanc, Abbeville, La. Filed Sept. 28, 1951.

AN ALTAR BOY NAMED
'SPECK'

For Cartoon Series.
Claims use since Mar. 8, 1951.

CLASS 39

CLOTHING

Ser. No. 587,744. Par-Fit Lingerie Corp., New York, N. Y. Filed Nov. 14, 1949.

Par-Fit

The word "Fit" is disclaimed.
For Women's and Girls' Slips, Gowns, Petticoats, Panties, Sets Consisting of a Slip and a Petticoat, or a Slip, Petticoat, and a Gown, or a Slip and a Gown.
Claims use since Apr. 7, 1949.

Ser. No. 587,864. Fairfield Glove Co., Fairfield, Iowa. Filed Nov. 16, 1949.

BONUS

For Work Gloves Made of Fabric and Leather.
Claims use since Jan. 2, 1949.

Ser. No. 605,961. Leslie-James, Los Angeles, Calif. Filed Nov. 6, 1950. (Sec. 2f.)

LESLIE JAMES

"Leslie James" is a fanciful name.
For Ladies' Hats and Cloches Made of Felt, Silk, Straw, and Pleated or Woven Fibrous Materials.
Claims use since Apr. 23, 1935.

Ser. No. 609,766. Epstein Garment Co., Inc., New York, N. Y. Filed Dec. 28, 1950.

Teena Paige

The name "Teena Paige" is fictitious. Applicant claims ownership of Registration No. 424,123.
For Ladies' Dresses.
Claims use since October 1944.

Ser. No. 611,341. Frederick M. Bob Burns, White Plains, N. Y. Filed Mar. 15, 1951.

YOUNGER YOU

For Women's and Misses' Dresses, Suits, Jackets, and Outer Skirts.
Claims use since Jan. 3, 1951.

Ser. No. 617,412. Miss Swank, Inc., New York, N. Y. Filed Aug. 7, 1951.

NYSTRON

For Slips, Petticoats, Pajamas, and Nightgowns, Shortie Gowns (Also Known as Short Nightgowns), and Gown Sets Consisting of a Long or a Short Nightgown and a Robe.
Claims use since July 6, 1951.

Ser. No. 619,311. Peter Pan Foundations, Inc., New York, N. Y. Filed Sept. 27, 1951.

DREAMLINE

For Brassières.
Claims use since Sept. 4, 1951.

Ser. No. 619,415. Vanyon Lingerie Company, Los Angeles, Calif. Filed Sept. 29, 1951.

ARABIAN NIGHTS

For Ladies' Panties.
Claims use since Aug. 10, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 616,490. A. D. Juilliard & Co., Inc., New York, N. Y. Filed July 14, 1951.

PLANETEEN

For Woolen Piece Goods.
Claims use since Apr. 15, 1947.

Ser. No. 616,499. A. D. Juilliard & Co., Inc., New York, N. Y. Filed July 14, 1951.

RHANA

For Woolen Piece Goods.
Claims use since Aug. 2, 1949.

Ser. No. 619,606. David Crystal, Inc., New York, N. Y. Filed Oct. 5, 1951.

PIASANTI

For Silk Piece Goods and Rayon Piece Goods.
Claims use since Sept. 10, 1951.

Ser. No. 619,649. J. Rosenholz, Inc., New York, N. Y. Filed Oct. 5, 1951.

SHARKWOOD

For Piece Goods of Rayon and Acetate Suiting.
Claims use since Aug. 1, 1951.

Ser. No. 621,711. Forstmann Woolen Co., Passaic, N. J. Filed Nov. 27, 1951.

GRACIANA

Applicant claims ownership of Registrations Nos. 258,137 and 135,675.
For Woolen Piece Goods.
Claims use since Nov. 14, 1951.

Ser. No. 621,712. Forstmann Woolen Co., Passaic, N. J. Filed Nov. 27, 1951.

TRAVERTEEN

Applicant claims ownership of Registrations Nos. 161,474, 384,703, and 161,470.
For Woolen Piece Goods.
Claims use since Nov. 14, 1951.

Ser. No. 621,844. Chas. Stoumen & Son, Philadelphia, Pa. Filed Nov. 29, 1951. (Sec. 2f.)

STOUMEN

For Textile Rugs, Carpets, and Carpeting.
Claims use since 1930.

Ser. No. 621,903. Rayflex Fabrics, Inc., New York, N. Y. Filed Nov. 30, 1951.

TRIMFLEX

For Woven Elastic Fabrics in the Piece.
Claims use since Feb. 26, 1951.

Ser. No. 621,910. Shirley Fabrics Corp., New York, N. Y. Filed Nov. 30, 1951.

SHANTOUCH

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Nov. 1, 1950.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 552,698. R and W Instrument Company, Brooklyn, N. Y. Filed Mar. 22, 1948.

NEUROSCOPE

For Device for Determining Unbalances in Electrical Potential Resulting From the Physical Condition of the Human Body.
Claims use since June 5, 1947.

Ser. No. 593,575. The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Filed Mar. 7, 1950.



The trade-mark consists of two closely adjacent parallel gray bands encircling the shank of a dental bur. The representation of the bur exclusive of the two gray bands is disclaimed.
For Dental Burs.
Claims use since Aug. 10, 1949.

Ser. No. 596,523. Rower Dental Mfg. Corp., Boston, Mass. Filed Apr. 28, 1950.

Pulpdent ROWER

The name "Rower" is disclaimed.
For Paste of Calcium Hydroxide for Dental Use in Cavity Lining and Pulp Capping.
Claims use since Apr. 18, 1950.

Ser. No. 598,094. Midwest Surgical Supply Co., Omaha, Nebr., assignor to Midwest Surgical Supply Co., Omaha, Nebr., a co-partnership composed of James G. Ryan, Franklin P. Rogers, John F. Keeline, and Margaret Keeline. Filed May 25, 1950.

MIZUR

For Trays and Containers Therefor for Receiving and Holding Medical, Surgical, and Laboratory Implements and Equipment During and After Sterilization.
Claims use since Mar. 15, 1950.

Ser. No. 614,277. The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Filed May 23, 1951.

Textone

For Dental Filling Materials, Comprising Resinous Powder and Liquid To Be Combined To Form a Self-Curing Resinous Material Used in the Filling of Natural Teeth.
Claims use since Apr. 16, 1951.

Ser. No. 614,348. Institutional Products Corporation, New York, N. Y. Filed May 25, 1951.

IPCO

For Scalpels; Elastic and Non-Elastic Bandages; Surgical Dressings and Gauze; Adhesive Bandages; Absorbent Cotton; Surgical Gauze Bandages; Adhesive Plaster and Tape for Surgical Dressings; Cellulose for Surgical Dressings; Gauze, Swabs and Sanitary Pads for General Hospital Use; Sanitary Napkins; Sanitary Belts and Sanitary Aprons; Surgeon's Rubber Gloves; Medicated Pillows; Hypodermic Needles; Rubber Bulb Syringes and Rubber Bulbs for Syringes; Abdominal and Kidney Belts; Clinical Thermometers; First Aid Kits Containing Bandages, Iodine, Hydrogen Peroxide, Ointment, and Adhesive Tape; Crutches; Surgical and Medical Instruments—Namely, Tongs, Forceps, Pincers, Nippers, Knives, Scissors, Hooks, Chisels and Spoons; Electrical Cauterising Apparatus for Surgical and Hospital Uses; Furniture for Sick Rooms and Hospitals—Namely, Stretchers, Bed Steads Constructed With Multi-Position Springs, Maternity Supports, Wheeling and Carrying Chairs, Self-Propelling Chairs, Invalid Chairs, Dissecting Tables, Examining and Operating Chairs and Preparation and Operating Tables; Catheters; Hospital and Sick Room Apparatus Consisting of Oxygen Tents, Oxygen Chambers, and Respirators for Use in the Treatment of Pneumonia, Cardiac Failure, Asthma and Other Cardiac-Respiratory Disturbances; Refillable Hypodermic Syringes; Hot Water Bottles, Electric Heating Bags and Rubber Water Bottles for Therapeutic Purposes; Rubber Syringes and Rubber Air Cushions for the Alleviation of Pain; Surgical Needles; Rubber Gloves for Use in Autopsies; Surgical Ligatures and Sutures; Bed Pans and Sputum Flasks; and Medical and Surgical Face Masks.
Claims use since July 1, 1950.

Ser. No. 617,472. Acme Cotton Products Co., Inc., New York, N. Y. Filed Aug. 9, 1951.

ZIP-STRIP

The word "Strip" is disclaimed. The bi-linear arrangement of the words is not claimed as a material feature of the mark.
For Individually Wrapped, Sterile Bandages Each Consisting of a Pad and an Adhesive Strip.
Claims use since July 1, 1949.

Ser. No. 617,629. The Reliable Spring & Wire Forms Company, doing business as Reliable Spring Company, Cleveland, Ohio. Filed Aug. 13, 1951.

MYLOFLEX

For Metallic Springs for Use in Flexible Artificial Dentures To Control the Flexing Thereof.
Claims use since Mar. 8, 1951.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 599,090. C. Victor Gulla, doing business as Caramba Mokafe Company, Hoboken, N. J. Filed June 14, 1950.

Caramba

For Concentrates Used in the Preparation of Maltless Soft Drinks.
Claims use since February 1947.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 525,908. The Maryland Biscuit Company, Baltimore, Md. Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Dec. 11, 1951.

ORIOLE

For Salted Crackers.
Claims use since June 1932.

Ser. No. 540,864. C. Pappas Company, Inc., Boston, Mass. Filed Nov. 12, 1947.

OLD STATE HOUSE

For Salad Dressing, Sandwich Olives, Mustard, Mayonnaise, Maraschino Cherries, Canned Fruits, and Chocolate Flavored Syrup for Food Purposes.
Claims use since Aug. 12, 1947.

Ser. No. 595,631. Clarence J. Waggoner, doing business as The Dan-Dee Dog Company, Wichita Falls, Tex. Filed Apr. 12, 1950.

DAN-DEE DOG

The representation of the frankfurter on a stick and the words "Dog on a Stick" are disclaimed.
For Frankfurter Sandwich on a Stick, Which Frankfurter Is Encased in Batter and Cooked.
Claims use since Aug. 16, 1949.

Ser. No. 597,058. D. B. Berelson & Co., San Francisco, Calif. Filed May 8, 1950.

TROPIC ISLE

The word "Tropic" is disclaimed.
For Canned Fruits and Canned Fruit Juices.
Claims use since Apr. 4, 1950.

Ser. No. 608,281. Joe Lowe Corporation, New York, N. Y. Filed Jan. 2, 1951.

Sidewalk Sundae

The word "Sundae" is disclaimed.
For Frozen Confections on Sticks and a Chocolate Flavoring Powder for Use in Making the Same.
Claims use since Nov. 30, 1950.

Ser. No. 615,615. Century Export, Inc., New York, N. Y. Filed May 31, 1951.

Golden Rule

For Canned Fish and Canned Hams and Pork.
Claims use since Jan. 5, 1950.

Ser. No. 616,550. Extrax Co., Brooklyn, N. Y. Filed July 16, 1951.

BILLY MARSH MALLOW

The term "Marsh-Mallow" is disclaimed.
For Frozen Confections on a Stick.
Claims use since Feb. 1, 1951.

Ser. No. 616,551. Extrax Co., Brooklyn, N. Y. Filed July 16, 1951.

PINTO

For Frozen Confections on a Stick.
Claims use since Dec. 13, 1950.

Ser. No. 616,552. Extrax Co., Brooklyn, N. Y. Filed July 16, 1951.

PONCHO

For Frozen Confections on a Stick.
Claims use since Dec. 13, 1950.

Ser. No. 616,553. Extrax Co., Brooklyn, N. Y. Filed July 16, 1951.

PEN-MO

For Frozen Confections on a Stick.
Claims use since Dec. 13, 1950.

Ser. No. 616,554. Extrax Co., Brooklyn, N. Y. Filed July 16, 1951.

TENDERFOOT TWINS

The word "Twins" is disclaimed.
For Frozen Confections on a Stick.
Claims use since Dec. 13, 1950.

Ser. No. 619,100. Northfield Cheese Corporation, Newark, N. J. Filed Sept. 21, 1951.

MANNAPAC

For Cheese.
Claims use since Aug. 15, 1951.

Ser. No. 619,101. Northfield Cheese Corporation, Newark, N. J. Filed Sept. 21, 1951.

SAVOPAC

For Cheese.
Claims use since Aug. 15, 1951.

Ser. No. 619,623. H. Kamei and Bros., Garden Grove, Calif. Filed Oct. 5, 1951.

EARLY EDITION

For Fresh Vegetables and Fresh Strawberries.
Claims use since July 18, 1951.

Ser. No. 619,718. K. H. Simonian & Company, San Francisco and Los Angeles, Calif. Filed Oct. 8, 1951.

Dancing Lady

For Fresh Vegetables.
Claims use since June 27, 1951.

Ser. No. 619,880. Green Giant Company, Le Sueur, Minn. Filed Oct. 11, 1951.

GREEN GIANT

Applicant claims ownership of Registrations Nos. 230,035, 286,422, and 275,788.
For Canned Corn.
Claims use since Sept. 21, 1951.

Ser. No. 620,040. Iwersen Canning Company, Bellingham and Point Roberts, Wash. Filed Oct. 16, 1951.

Golden Tide

For Canned Clams, Canned Salmon, and Canned Clam Nectar.
Claims use since Mar. 3, 1951.

Ser. No. 620,041. Iwersen Canning Company, Bellingham and Point Roberts, Wash. Filed Oct. 16, 1951.

Silver Tide

For Canned Clams, Canned Salmon, and Canned Clam Nectar.
Claims use since Mar. 3, 1951.

Ser. No. 620,171. Roto-Wrap, Ltd., New York, N. Y., assignor to Promotional Enterprises, Inc., New York, N. Y., a corporation of New York. Filed Oct. 18, 1951.

AUNT FANNY

For Bread.
Claims use since Sept. 26, 1951.

Ser. No. 620,214. Hi-Acres Ranch, Inc., Thermal, Calif. Filed Oct. 19, 1951.

HI-ACRES

For Fresh Grapes.
Claims use since June 12, 1951.

Ser. No. 621,483. The Paul Spitz Company, Inc., New York, N. Y. Filed Nov. 20, 1951.

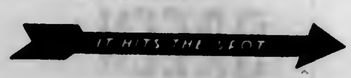
RANDY

For Candy Bar.
Claims use since Nov. 14, 1951.

CLASS 48

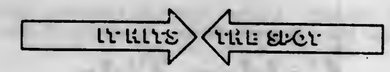
MALT BEVERAGES AND LIQUORS

Ser. No. 531,786. The Globe Brewing Company, Baltimore, Md. Filed Aug. 19, 1947.



Applicant claims ownership of Registrations Nos 104,610 and 140,815.
For Beer.
Claims use since Feb. 22, 1913.

Ser. No. 535,414. The Globe Brewing Company, Baltimore, Md. Filed Sept. 23, 1947.



Applicant claims ownership of Registrations Nos. 104,610 and 140,815.
For Beer.
Claims use since Feb. 22, 1913.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 546,455. Andersen & Bruuns Fabriker A/S, Copenhagen, Denmark. Filed Jan. 8, 1948.

ALULUXE

Priority under Sec. 44(d). Danish application filed on July 11, 1947, Registration No. 1341/1947, dated Sept. 27 1947. Applicant claims ownership of Danish Registration No. 1341/1947, dated Sept. 27, 1947.
For Bottle Caps Used for Sealing and Decorating Bottles.

Ser. No. 595,231. Sierra Products Company, Compton, Calif. Filed Apr. 4, 1950.

Sierracin

For Window Panes of Transparent Molded Plastic.
Claims use since Apr. 2, 1949.

Ser. No. 600,546. Mosse, Incorporated, New York, N. Y. Filed July 12, 1950.

"ROSITA"

For Place Mats of Plastic Sheet Material.
Claims use since May 12, 1950.

Ser. No. 612,473. Safety Box Toe Company, Boston, Mass. Filed Apr. 10, 1951.

MASKEDGE

For Shoe Lasts.
Claims use since Mar. 21, 1950.

Ser. No. 614,311. Frank Powell, doing business as Chick Powell Company, Miami, Fla. Filed May 24, 1951.



The word "Plaque" is disclaimed.
For Wall Plaques.
Claims use since Apr. 6, 1951.

Ser. No. 615,667. United States Plywood Corporation, New York, N. Y. Filed June 25, 1951.

TAPISTRON

For Flexible Plastic Sheeting or Film (in the General Nature of an Equivalent or a Substitute for Leather but Having a Variety of Colors and Designs) for Use as Upholstery, Wall Covering, and Pocketbooks, on Luggage, Table Tops, Footwear, and for Other Industrial Uses.
Claims use since Dec. 29, 1950.

Ser. No. 615,837. Kassel Export Company, New York, N. Y. Filed June 28, 1951.

ALULAN

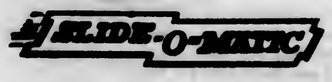
For Product Which Is a Tinsel Made Predominantly of Aluminum for Use as Metal Ribbons and Garlands for Decorative Purposes.
Claims use since Nov. 3, 1950.

Ser. No. 616,087. E. I. du Pont de Nemours and Company, Wilmington, Del. Filed July 5, 1951.

RUG ANCHOR

The word "Rug" is disclaimed. Applicant claims ownership of Registration No. 273,746.
For Sponge Rubber Rug Underlay.
Claims use since June 21, 1935.

Ser. No. 617,776. United Last Company, Portland, Maine, and Boston, Mass. Filed Aug. 16, 1951.



For Lasts for Footwear.
Claims use since June 29, 1950.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 566,362. Societe Anonyme Societe Technique de Parfumerie F. Millot, Paris, France. Filed Oct. 2, 1948.

Joyeuse nuit

Applicant claims ownership of French Registration No. 384,414, dated Mar. 11, 1948.
For Perfume, Toilet Water, and Cologne.

Ser. No. 575,914. Lancome S. A., doing business as Lancôme, Paris, France. Filed Mar. 23, 1949.



The words "Lancôme," "Paris," and "France" are disclaimed. The drawing is lined for the colors blue, red, green, and gold. Applicant claims ownership of French Registration No. 381,273, dated Nov. 6, 1947.
For Toilet Waters, Eaux de Cologne and Skin Lotions.

Ser. No. 579,974. Rose A. Fischer, doing business as Balmoral Company, Chicago, Ill. Filed June 4, 1949.

Lano-Lustre

The word "Lustre" is disclaimed.
For Preparation for Simultaneously Shampooing, Tinting, and Restoring Natural Color to the Hair.
Claims use since Apr. 8, 1949.

Ser. No. 581,833. Hy Schwartz, doing business as Evree Products Company, Los Angeles, Calif. Filed July 12, 1949.

Evree

The drawing is lined for the color blue.
For Liquid as a Cleaner and Permanent Conditioner for Hair.
Claims use since May 6, 1949.

Ser. No. 597,353. Helena Rubinstein, Inc., New York, N. Y. Filed May 12, 1950.

perfume-scentry

The word "Perfume" is disclaimed.
For Container Filled With a Fragrant Substance and Including Means for Attaching the Container to a Person, a Person's Clothing or Other Objects.
Claims use since Mar. 16, 1950.

Ser. No. 598,858. La Salle Chemical Company, Chicago, Ill. Filed June 9, 1950.



For Cologne Mist.
Claims use since Mar. 3, 1950.

Ser. No. 602,085. Coty, Inc., New York, N. Y. Filed Aug. 11, 1950.

EARLE BRIGHT

Applicant claims ownership of Registrations Nos. 103,780 and 249,004.
For Lipstick, Rouge, and Face Powder.
Claims use since Aug. 9, 1950.

Ser. No. 602,086. Coty, Inc., New York, N. Y. Filed Aug. 11, 1950.

EARLE VELVET

Applicant claims ownership of Registrations Nos. 103,780 and 249,004.
For Lipstick, Rouge, and Face Powder.
Claims use since Aug. 9, 1950.

Ser. No. 604,809. Helena Rubinstein, Inc., New York, N. Y. Filed Oct. 12, 1950.

silk velvet

The word "Silk" is disclaimed. Applicant claims ownership of Registrations Nos. 349,251 and 508,522.
For Hand Lotion.
Claims use since Sept. 28, 1950.

Ser. No. 613,045. Bonney, Inc., Chicago, Ill. Filed Apr. 24, 1951.

FLAME-O-YOUTH

The word "Flame" is disclaimed.
For Rouge, Lipstick, and Facial Pack.
Claims use since July 31, 1924.

Ser. No. 613,098. Allan F. Walthew, San Pedro, Calif. Filed Apr. 24, 1951.

BEHAVE

For Dandruff Remover.
Claims use since Mar. 3, 1946.

Ser. No. 613,377. Lever Brothers Company, New York, N. Y. Filed May 1, 1951.

FORMULAYER

For Skin Cream.
Claims use since Feb. 24, 1950.

Ser. No. 614,034. Alexander Balzano, Brooklyn, N. Y. Filed May 18, 1951.

ALEBAL

For Hair Tonic.
Claims use since Feb. 21, 1950.

Ser. No. 615,402. Northwestern Research Corp., Chicago, Ill. Filed June 19, 1951.

BesGay

For Composition for Reconditioning Hair.
Claims use since Jan. 11, 1951.

Ser. No. 617,224. Campana Corporation, Batavia, Ill. Filed Aug. 2, 1951. (Sec. 2f.)

ITALIAN BALM

Applicant claims ownership of Registrations Nos. 176,347, 234,573, and others.
For Lotions for the Skin.
Claims use since 1895.

Ser. No. 617,804. Charlotte Smith Means, doing business as Mme. Charlotte's, Gastonia, N. C. Filed Aug. 17, 1951.



The portrait shown on the drawing is that of applicant.
For Pressing Oil, Hair and Scalp Cream.
Claims use since July 15, 1947.

Ser. No. 617,852. Donald Barry Productions, Inc., Los Angeles, Calif. Filed Aug. 20, 1951.



The portrait of the woman is fanciful. "Calamity Jane" is the popular name of Martha Jane Canary Burke, 1852–1903.
For Toilet Water.
Claims use since July 5, 1951.

Ser. No. 617,928. Olga Pataky, doing business as Madame Olga Pataky, Philadelphia, Pa. Filed Aug. 21, 1951.

LazyCare

For All Purpose Liquid Cosmetic Cream.
Claims use since Sept. 1, 1950.

Ser. No. 617,959. Gourielli, Inc., New York, N. Y. Filed Aug. 22, 1951.



For Man's Cologne, After Shave Lotion, Deodorant Lotion, Shave Soap, and Talc.
Claims use since May 25, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 527,666. The Procter & Gamble Company, Cincinnati, Ohio. Filed July 5, 1947.

PEARL

For White Floating Bar Soap.
Claims use since Jan. 2, 1884.

Ser. No. 579,974. Rose A. Fischer, doing business as Balmoral Company, Chicago, Ill. Filed June 4, 1949. (Classified in Class 51.)
The word "Lustre" is disclaimed.
See this serial number in Class 51 for goods and mark.
Claims use since Apr. 8, 1949.

Ser. No. 590,123. Benzion Nussdorf, doing business as Budgit Distributors, New York, N. Y. Filed Oct. 8, 1949.

budgit

For Chemical Washing Compounds.
Claims use since Apr. 30, 1949.

Ser. No. 604,271. The Simoniz Company, Chicago, Ill. Filed Sept. 30, 1950.

EZ 2

For Liquid Cleaning Fluid for Cleaning Chrome and Other Metal Surfaces.
Claims use since February 1937.

Ser. No. 604,514. Milton Honor Aspden, doing business as Aspden Associates, Greensboro, N. C. Filed Oct. 6, 1950.

DOUBLEAYE
DEPENDABLE AA QUALITY
BRAND

The words "Dependable," "Quality," and "Brand" are disclaimed.
For Cleaners for Linoleum, Cork, Asphalt, Rubber, Ceramics, Terrazzo, Wood, Concrete, Magnesite, Asphalt Tile, and Composition Surfaces, Textile Soaps and Detergents, Glass Cleaners, Toilet and Wash Bowl Cleaners, Drain Cleaners, Toilet Soaps, Laundry Soaps, Industrial Soaps, Synthetic Detergents, Dishwashing Compounds, and Grease Solvents.
Claims use since Sept. 21, 1942.

Ser. No. 609,725. The House of Louis Feder, Inc., New York, N. Y. Filed Feb. 7, 1951.

FEDERENE

For Cleaning Fluid for Hair Goods—Namely, Wigs and Toupees.
Claims use since 1946.

Ser. No. 612,867. Frank W. Lowe, doing business under the name and style of Lowe and Company, St. Louis, Mo. Filed Apr. 19, 1951.

LO-CO

For Alkaline Detergent Cleaner in Powder Form, for Use in Cold Process Cleaning of Metal Products.
Claims use since Apr. 4, 1951.

Ser. No. 615,527. J. & E. Atkinson Limited, London, England. Filed June 22, 1951.

Mirage

Applicant claims ownership of Registration No. 106,218.
For Toilet Soap.
Claims use since May 1950.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 552,643. Eastman Oil Well Survey Company, Denver, Colo. Filed Mar. 22, 1948. (Classified in Class 103.) (Sec. 2f.)

See this serial number in Class 103 for goods and mark.

Claims use since Jan. 1, 1934.

Ser. No. 590,220. Robert D. Harrell, Inc., Los Angeles, Calif. Filed Dec. 31, 1949.

International Modern

The word "Modern" is disclaimed.

For Creating and Suggesting Designs and Plans for the Interior Decoration and Furnishing of Homes and Other Buildings, Counseling Clients Thereon, and Supervising the Execution Thereof.

Claims use since Mar. 17, 1946.

Ser. No. 595,192. The Deodorized Order of the Skunk, Plaistow, N. H. Filed Apr. 4, 1950. COLLECTIVE MARK.



For Encouragement and Practice of Fellowship and Loyalty Through Good Fellowship and for the Undertaking of Projects of Civic or Humanitarian Purposes.

Claims use since Apr. 26, 1949.

Ser. No. 600,514. Serra International, Chicago, Ill. Filed July 11, 1950.



The words "Serra" and "International" are disclaimed.

For Fostering of Vocations to the Roman Catholic Priesthood and Furthering Catholicism Through Enduring Friendships Among Catholic Men.

Claims use since April 1935.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 526,516. Robert B. Shapiro, doing business as Associated Business Consultants, Chicago, Ill., New York, N. Y., and Washington, D. C. Filed July 5, 1947.

ASSOCIATED BUSINESS CONSULTANTS

The words "Associated Business Consultants" are disclaimed.

For Consulting Management Engineering Services—Namely, Personnel Procedures; Employee Relations; Job Evaluations; Work Simplification; Wage Incentives; Suggestion Systems; Employee Audits; Labor Turnover Control; Supervisory Employee, and Sales Training; Employment Procedures; Placement Methods; Merit Ratings; Bonus Systems; Pension Plans; Profit Sharing Methods; Office Procedures; Employee Testing; Analysis, Study, and Reduction to Writing, Printing, and Illustration of Two-Way Communications Between Management and Employees Through the Medium of Publications Such as Employee Newspapers and Handbooks, Instructions to Foremen, and the Like; Office and Plant Layout; Visual Aids; General Consultations to Management or Labor Organizations or Individuals in Reference to Business Problems Involving Product Design, Market Research; Business Financing and Production Development Including the Design and Supervision of the Building of Machines and Equipment, and the Financing of the Sub-Contracts Therefor on Behalf of the Client.

Claims use since Feb. 15, 1942.

Ser. No. 542,884. Acme Business Control Co., Bradley Beach, N. J. Filed Dec. 1, 1947.

Acme Business Control

Easy as A. B. C.

The drawing is lined for red and blue. All wording except "Acme" is disclaimed.

For Bookkeeping Services.

Claims use since Feb. 1, 1947.

Ser. No. 607,173. George E. Keeney, doing business as Rapid Colorprint Service, Glendale, Calif. Filed Dec. 1, 1950.

dupliton
DIRECT COLOR REPRODUCTION

The words "Direct Color Reproduction" are disclaimed.

For Natural Color Photocopy Services Making Use of a Copying Camera.

Claims use since Feb. 6, 1950.

Ser. No. 607,357. The Basil L. Smith System, Philadelphia, Pa. Filed Dec. 6, 1950.



For Photo-Engraving of Pictures, Designs, and Images Submitted to It.

Claims use since Nov. 1, 1938.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 526,516. Robert B. Shapiro, doing business as Associated Business Consultants, Chicago, Ill., New York, N. Y., and Washington, D. C. Filed July 5, 1947. (Classified in Class 101.)

The words "Associated Business Consultants" are disclaimed.

See this serial number in Class 101 for goods and mark.

Claims use since Feb. 15, 1942.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 532,252. The Pure Oil Company, Chicago, Ill. Filed Aug. 23, 1947. (Sec. 2f as to "Be Sure With Pure.")



Applicant claims ownership of Registration No. 343,233 and others.

For Services Rendered To Automobiles, Trucks, and Other Automotive Vehicles—Namely, Lubrication, Washing, Polishing, Repairing, Motor Tuning, Battery Charging, Tire Repairing and Changing, Air Cleaner Maintenance and Repair, Spark Plug Cleaning and Regapping.

Claims use since Apr. 1, 1941.

Ser. No. 541,020. The New York Trade School, New York, N. Y. Filed Nov. 13, 1947.



The words "Piano Craftician" and the representations of the piano and tuning fork are disclaimed.

For Tuning and Repair of Pianos.

Claims use since Dec. 6, 1946.

Ser. No. 552,643. Eastman Oil Well Survey Company, Denver, Colo. Filed Mar. 22, 1948. (Sec. 2f.)

Eastman

For Directional Drilling, Core Orienting and Oil Well Surveys—Namely, Oil Well Temperature Surveys, Surface Controlled Magnetic Well Surveys, Water Entry Surveys, and Surveys To Ascertain Inclination of and Direction of Inclination of Well Bores.

Claims use since Jan. 1, 1934.

Ser. No. 589,229. Signal Oil Company, Los Angeles, Calif., assignor to Standard Oil Company of California, a corporation of Delaware, doing business as Signal Oil Company, Los Angeles, Calif. Filed Dec. 12, 1949.



The words "Lubrication" and "Double Checked" are disclaimed. Applicant claims ownership of Registrations Nos. 287,715, 294,435, and others.

For Lubrication Services Performed Upon Automotive Vehicles at Automotive Service Stations and Garages.

Claims use since January 1947, as shown; and since June 1933, as to "Signal Double Checked."

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 617,923. Roy D. Masser, Reading, Pa. Filed Aug. 21, 1951.

ROAMER TOURS

The word "Tours" is disclaimed.

For Personally Conducting Tours by Buses and Trains.

Claims use since Nov. 26, 1948.

CLASS 106

MATERIAL TREATMENT

Ser. No. 551,693. Coe Laboratories, Inc., Chicago, Ill. Filed Mar. 11, 1948.

CERTIFIED LABORATORIES cal SERVICE

The name "Akers" and the words "Certified," "Laboratories," and "Service" are disclaimed.

Applicant claims ownership of Registrations Nos. 374,399, 377,919, 399,553, 407,734, and 510,108.

For Services Comprising the Molding and Fashioning of Dental Prosthetic Devices From Impressions Furnished by Dentists.

Claims use since Dec. 29, 1947.

Ser. No. 596,773. Buffalo Galvanizing & Tinning Works, Inc., Buffalo, N. Y. Filed May 3, 1950. (Sec. 2f.)

Buffalo

For Metal Plating—Namely, Hot Dip Galvanizing.

Claims use since 1900.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 526,516. Robert B. Shapiro, doing business as Associated Business Consultants, Chicago, Ill., New York, N. Y., and Washington, D. C. Filed July 5, 1947. (Classified in Class 101.)

The words "Associated Business Consultants" are disclaimed.

See this serial number in Class 101 for goods and mark.

Claims use since Feb. 15, 1942.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,678. Metal Valves—Namely, Angle Valves, Compression Valves of the Cross Type, Etc. Cherry-Burrell Corporation, Chicago, Ill.
Filed June 28, 1945, Serial No. 485,429. Published Jan. 15, 1952. Class 13.

444,679. Sump Pumps for Removing Water Rapidly From Excavations Such as Cellars or Ditches. Marine Products Company, Detroit, Mich.
Filed Feb. 26, 1947, Serial No. 518,158. Published Jan. 15, 1952. Class 23.

444,680. Duplicating Hand Stamps of the Ink Carrying Duplicating Type and Stencils To Be Mounted Thereon, Sold Together. Sten-C-Labl Incorporated, St. Paul, Minn.
Filed Feb. 26, 1947, Serial No. 518,177. Published Jan. 15, 1952. Class 23.

444,681. Humidor Made of Glass for Storing Therein a Bottle of Perfume. Ellis and Ellis, Brooklyn, N. Y.
Filed June 25, 1947, Serial No. 524,787. Published Nov. 13, 1951. Class 33.

ACT OF 1946, PRINCIPAL REGISTER

557,444. Sectional, Portable, Gravity Conveyors. The Rapids-Standard Company, Inc., Grand Rapids, Mich.
Original filed, act of 1905, Sept. 12, 1946; amended to application under act of 1946, Principal Register, Aug. 16, 1950, Serial No. 508,920. Published Dec. 11, 1951. Class 23.

557,445. Piece Goods of Novelty Silks, and Rayon. Julius N. Werk Fabrics, Inc., New York, N. Y.
Original filed, act of 1905, Jan. 31, 1947; amended to application under act of 1946, Principal Register, Jan. 19, 1948, Serial No. 516,746. Published July 27, 1948. Class 42.

557,446. Mineral Coated Paper Suitable for Printing. The Champion Paper and Fibre Company, Hamilton, Ohio.
Filed July 5, 1947, Serial No. 527,439. Published Jan. 22, 1952. Class 37.

557,447. Alfalfa Seed. Great Plains Seed Co. Sioux Falls, S. Dak.
Filed Aug. 12, 1947, Serial No. 531,110. Published Jan. 15, 1952. Class 1.

557,448. Ham and Bacon. Armour and Company, doing business as Armour Creameries, Chicago, Ill.
Filed Nov. 13, 1947, Serial No. 540,967. Published Jan. 29, 1952. Class 46.

557,449. Concrete Outdoor Housings for Garbage and Trash Receptacles. William Sultz, doing business as Sani-Bin Company, Buffalo, N. Y.
Filed Nov. 25, 1947, Serial No. 542,369. Published May 15, 1951. Class 2.

557,450. Paper Products—Namely, Toilet Tissue, Towels, Napkins, and Facial Tissue. Northern Paper Mills, Green Bay, Wis.
Filed Feb. 3, 1948, Serial No. 548,671. Published Jan. 15, 1952. Class 37.

557,451. Paper Products—Namely, Toilet Tissue. Northern Paper Mills, Green Bay, Wis.
Filed Feb. 3, 1948, Serial No. 548,672. Published Jan. 22, 1952. Class 37.

557,452. Cleaning Preparations Having Cleansing, Detergent, and Water-Softening Qualities, Etc. Oakite Products, Inc., New York, N. Y.
Filed Feb. 3, 1948, Serial No. 548,675. Published Oct. 4, 1949. Class 4.

557,453. Preparation To Relieve Gastro-Intestinal Disorders. The Nestle Company, Inc., New York, N. Y., by change of name from Nestle's Milk Products, Inc.
Filed Mar. 2, 1948, Serial No. 551,038. Published Dec. 25, 1951. Class 18.

557,454. Silver Flatware—Namely, Table-Knives, Butter-Knives, Etc. Fine Arts Sterling Silver Company, Philadelphia, Pa.
Filed Mar. 25, 1948, Serial No. 552,963. Published Dec. 25, 1951. Class 28.

557,455. Table Flatware, Hollow Ware, and Other Articles of Silverware and Jewelry for Personal Wear—Namely, Necklaces, Bracelets, and Finger Rings, All of the Foregoing Being Made of Sterling Silver or Plated With Silver. Herbert Bayer, Aspen, Colo.
Filed Apr. 7, 1948, Serial No. 554,004. Published Dec. 25, 1951. Class 28.

557,456. Paper Shopping Bags. Package Containers, Inc., Portland, Oreg.
Filed Apr. 13, 1948, Serial No. 554,509. Published Jan. 22, 1952. Class 2.

557,457. Prepared Breakfast Cereal. George King & Company Limited, London, England.
Filed May 1, 1948, Serial No. 556,015. Published Jan. 1, 1952. Class 46.

557,458. Paper—Namely, Waxed Sheets and Rolls. Mill Agents and Distributors, Inc., Oakland, Calif.
Filed May 28, 1948, Serial No. 558,051. Published Jan. 22, 1952. Class 37.

557,459. Various Drugs, Chemicals, and Pharmaceutical Preparations, Etc. San Antonio Drug Company, San Antonio, Tex.
Filed June 5, 1948, Serial No. 558,597. Published Dec. 25, 1951. Class 51.

557,460. Monuments, Markers, and Memorials. J. P. Gilman Granite Company, Kansas City, Kans.
Filed June 28, 1948, Serial No. 560,339. Published Dec. 25, 1951. Class 50.

557,461. Fresh Lettuce. Ice Kist Packing Company, Salinas, Calif.
Filed June 29, 1948, Serial No. 560,412. Published Jan. 15, 1952. Class 46.

557,462. Bread. Eddy Bakeries, Inc., Helena, Mont.
Filed July 20, 1948, Serial No. 561,737. Published Sept. 4, 1951. Class 46.

557,463. Hernia Supporting Trusses. Piper Brace Co., Kansas City, Mo.
Filed July 23, 1948, Serial No. 562,083. Published Nov. 13, 1951. Class 44.

557,464. Fountain Pens. Universal Fountain Pen & Pencil Co., New York, N. Y., assignor to Universal Fountain Pen & Pencil Co., Inc., New York, N. Y., a corporation of New York.
Filed Aug. 13, 1948, Serial No. 563,378. Published Jan. 15, 1952. Class 37.

557,465. Wearing Apparel for Men, Women, and Children—Namely, Blouses, Under and Outer Shirts, Jackets, Coats, Pajamas, Bath Robes, and Dresses. Jack Daniels, Brooklyn, N. Y.
Filed Sept. 16, 1948, Serial No. 565,238. Published Dec. 11, 1951. Class 39.

557,466. Hair Clippers and Electric Shavers. Knapp-Monarch Company, St. Louis, Mo.
Filed July 29, 1948, Serial No. 566,014. Published Jan. 15, 1952. Class 23.

557,467. Wooden and Plastic Receptacle, Comprising a Traylike Base and an Attached Superstructure, for Holding Artists' Paints and Brushes, Sold Empty. Lou Kashins, New York, N. Y.
Filed Sept. 30, 1948, Serial No. 566,152. Published Jan. 29, 1952. Class 2.

557,468. Containers—Namely, Paper Liners for Insertion in Supporting Structures To Provide Sanitary Dishes for Soda Fountain Confections. Charles R. Pearce, Pittsburgh, Pa.
Filed Nov. 3, 1948, Serial No. 568,114. Published Jan. 15, 1952. Class 2.

557,469. Valve-Controlled, Nozzle-Type, Applicator for Applying Liquids Along Areas of Restricted Width on Carpets or Other Surfaces. James Templeton & Company Limited, Glasgow, Scotland.
Filed Nov. 16, 1948, Serial No. 568,874. Published Dec. 11, 1951. Class 23.

557,470. Men's and Boys' Sport Hats, Outer Shirts, Jackets, Coats, and Trousers. Cardinal Hat Company, St. Louis, Mo.
Filed Nov. 19, 1948, Serial No. 569,048. Published Dec. 25, 1951. Class 39.

557,471. Hectograph Carbon Paper and Duplicating Units, Etc. Ditto, Incorporated, Chicago, Ill.
Filed Dec. 30, 1948, Serial No. 571,321. Published Nov. 20, 1951. Class 11.

557,472. Hosiery. Courtney Hafela, Orange, N. J.
Filed Jan. 11, 1949, Serial No. 571,966. Published Mar. 7, 1950. Class 39.

557,473. Candies. Shenandoah Candy Company, Inc., Winchester, Va.
Filed Jan. 28, 1949, Serial No. 573,007. Published Jan. 22, 1952. Class 46.

557,474. Container Charged With a Medicament in Dry Comminuted Form for Administration by Inhalation in Certain Cases of Infection in the Upper and Lower Respiratory Tract. Abbott Laboratories, North Chicago, Ill.
Original filed, act of 1946, Supplemental Register, Feb. 4, 1949; amended to application, Principal Register, Feb. 24, 1950, Serial No. 573,204. Published Nov. 27, 1951. Class 18.

557,475. Coffee, Hamburger Sandwiches, and Other Sandwiches. White Tower Management Corporation, Stamford, Conn.
Filed Feb. 12, 1949, Serial No. 573,807. Published Jan. 22, 1952. Class 46.

557,476. Metal Pans Useful in Baking and in the Preparation of Food Molds. United Aircraft Products, Inc., Dayton, Ohio.
Filed Feb. 19, 1949, Serial No. 574,170. Published Jan. 29, 1952. Class 13.

557,477. Abrasives of Both the Flexible and Inflexible Type. Behr-Manning Corporation, Troy, N. Y.
Filed Feb. 23, 1949, Serial No. 574,337. Published Jan. 29, 1952. Class 4.

557,478. Filler Materials in the Form of Disks, Which Become Permanent Parts of Finishing Rolls, for Glossing Paper. Filter Materials, Inc., Waupaca, Wis.
Filed Feb. 25, 1949, Serial No. 574,501. Published Jan. 8, 1952. Class 23.

557,479. Electrically Operating Time Interval Measuring Devices Incorporating a Signal and a Switch for Use in Conjunction With Other Electrical Apparatus. The Waco Aircraft Company, Troy, Ohio.
Filed Mar. 12, 1949, Serial No. 575,383. Published Jan. 15, 1952. Class 26.

557,480. Canned Foods — Namely, Fruits, Vegetables, Fish, Evaporated Milk, Fruit Juices, Prepared Spaghetti, Pickles, Olives, Butter, and Vinegar. Schuylkill Valley Grocery Co., Inc., Bridgeport, Pa.
Filed Apr. 2, 1949, Serial No. 576,558. Published Jan. 22, 1952. Class 46.

557,481. Hand, Clamping, Cutting, Tightening, Bending, Driving, Pulling, and Work Piece Supporting Tools, Etc. Kent-Moore Organization, Inc., Detroit, Mich.
Filed Apr. 14, 1949, Serial No. 577,124. Published Jan. 15, 1952. Class 23.

557,482. Silent Butlers in the Nature of a Catch-All Around the House, Made of Aluminum, Cream and Sugar Sets With Tray, of Metal and Coaster Sets of the Disc Type of Aluminum. The Wade-Yeomans Company, Alliance, Ohio.
Filed Apr. 14, 1949, Serial No. 577,154. Published Jan. 22, 1952. Class 13.

557,483. Sports Jackets and Coats for Men and Women. Marcus Breier Sons, Inc., Amsterdam, N. Y.
Filed Apr. 15, 1949, Serial No. 577,164. Published Dec. 18, 1951. Class 39.

557,484. Paper Carriers — Namely, Tubes and Cones Adapted for Receiving and Carrying Windings of Yarn, Etc. Sonoco Products Company, Hartsville, S. C.
Filed Apr. 15, 1949, Serial No. 577,232. Published Jan. 22, 1952. Class 2.

557,485. Tractors. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed Apr. 19, 1949, Serial No. 577,378. Published Nov. 20, 1951. Class 23.

557,486. Thermostats, Thermostatic Valves, Thermostatic Switches, Thermostatic Pilot Controls for Preventing Escape of Unburned Fuel From Fluid Fuel Burners, Thermocouples, and Component Parts for All Said Products. Robertshaw-Fulton Controls Company, Greensburg, Pa.
Filed May 18, 1949, Serial No. 579,154. Published Dec. 11, 1951. Class 26.

557,487. Agricultural and Horticultural Spraying and Dusting Machines. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed May 28, 1949, Serial No. 579,679. Published Jan. 15, 1952. Class 23.

557,488. Vitamin Preparation. Special Milk Products, Inc., West Los Angeles, Calif., now by change of name Jackson-Mitchell Pharmaceuticals, Inc., a corporation of California.
Filed June 1, 1949, Serial No. 579,841. Published Nov. 7, 1950. Class 18.

557,489. Men's, Women's and Children's Sport Clothing, Etc. Mages Sport Stores, Inc., Chicago, Ill.
Filed June 6, 1949, Serial No. 580,022. Published Dec. 25, 1951. Class 39.

557,490. Heating Pads for Therapeutic Purposes. George J. Yore, doing business as Geo. J. Yore & Co., Chicago, Ill.
Filed June 22, 1949, Serial No. 580,913. Published Jan. 22, 1952. Class 44.

557,491. Hats for Women and Girls. Bernard Workman, Inc., New York, N. Y.
Filed July 2, 1949, Serial No. 581,511. Published Jan. 22, 1952. Class 39.

557,492. Slide Rules. Roy Boudinot Wolfe, Danville, Ill.
Filed July 13, 1949, Serial No. 581,920. Published Jan. 29, 1952. Class 26.

557,493. Pneumatic Drills. Reed Roller Bit Company, Houston, Tex.
Filed July 18, 1949, Serial No. 582,142. Published Jan. 29, 1952. Class 23.

557,494. Refillable Valve-Controlled Fluid Soap Dispensers. Flo-Bar, Limited, New York, N. Y.
Filed Aug. 2, 1949, Serial No. 582,830. Published Jan. 22, 1952. Class 2.

557,495. Canned Salmon. Wards Cove Packing Co., Inc., Seattle, Wash.
Filed Aug. 27, 1949, Serial No. 584,176. Published Jan. 22, 1952. Class 46.

557,496. Canned Tomato Product Consisting of Peeled Tomatoes, Chopped Celery, Onions, Pepper, Salt, and Spices. Can-Rite Food Products Company, Modesto, Calif.
Filed Sept. 6, 1949, Serial No. 584,478. Published Jan. 15, 1952. Class 46.

557,497. Duplicating Units Consisting of Carbon Paper and Rigid Binders Having Studs To Impale Apertures in Sheets of Said Carbon Paper To Secure the Unit Together. Standard Manifold Company, Chicago, Ill.
Filed Sept. 14, 1949, Serial No. 584,841. Published Oct. 30, 1951. Class 11.

557,498. Plastic Film for Making Into Raincoats, Garment Bags, Dish Covers, Umbrellas, and the Like. The Firestone Tire & Rubber Company, Akron, Ohio.
Filed Sept. 16, 1949, Serial No. 584,902. Published Jan. 29, 1952. Class 42.

557,499. Screen Door Hinges. The Consolidated Iron-Steel Mfg. Co., Cleveland, Ohio.
Filed Sept. 30, 1949, Serial No. 585,566. Published Jan. 29, 1952. Class 13.

557,500. Power Tools for Grinding, Burring, Polishing, Sanding, Drilling, and Buffing. Altheimer & Baer, Inc., Chicago, Ill.
Filed Oct. 4, 1949, Serial No. 585,735. Published Dec. 18, 1951. Class 23.

557,501. Door and Drawer Pulls. Adams Rite Manufacturing Company, Glendale, Calif.
Filed Oct. 5, 1949, Serial No. 585,777. Published Jan. 29, 1952. Class 13.

557,502. Ferrous and Non-Ferrous Metal Castings Made by Permanent, Semi-Permanent, and Expendable Mold Processes, and by Die Casting Processes. General Motors Corporation, Detroit, Mich.
Filed Oct. 8, 1949, Serial No. 585,996. Published Jan. 22, 1952. Class 14.

557,503. Double Faced Tricot Knitted Cotton Suede Glove Fabrics. The E. Richard Meinig Co., Reading, Pa.
Filed Oct. 8, 1949, Serial No. 586,008. Published Jan. 22, 1952. Class 42.

557,504. Knives, Spoons, Forks, Razors, Razor Blades, Tin Openers, Corkscrews, Axes, Hatchets, Hoes, Machetes, Spades, Shovels; Hammers, Pincers, Files, Saws, Planes, Chisels, and Drills. Union Trading Company Ltd., Basel, Switzerland.
Filed Oct. 15, 1949, Serial No. 586,372. Published Jan. 8, 1952. Class 23.

557,505. Reciprocating Pumps. Food Machinery and Chemical Corporation, San Jose, Calif.
Filed Oct. 17, 1949, Serial No. 586,408. Published Jan. 29, 1952. Class 23.

557,506. Fabrics of Synthetic Fibers. The Chemstrand Corporation, Philadelphia, Pa.
Filed Oct. 21, 1949, Serial No. 586,621. Published Jan. 29, 1952. Class 42.

557,507. Medicated Hair and Scalp Treatment Recommended To Check Loose Dandruff, Prevent Dryness, Help Retard Excessive Falling Hair, and Help Relieve Itching Scalp. Melvin B. Cramer, doing business as Vi-De-Lan, Atlantic City, N. J.
Filed Oct. 25, 1949, Serial No. 586,793. Published Dec. 18, 1951. Class 18.

557,508. Aerosol Type Liquid Insecticide. Spray Incorporated, East Orange, N. J.
Filed Nov. 14, 1949, Serial No. 587,762. Published Jan. 22, 1952. Class 6.

557,509. Perfume Containers—Namely, a Collapsible Paper Box. Lucien Lelong, Inc., Chicago, Ill.
Filed Nov. 25, 1949, Serial No. 588,304. Published Jan. 22, 1952. Class 2.

557,510. Weighing and Computing Scales. U. S. Slicing Machine Company, Inc., La Porte, Ind.
Filed Nov. 25, 1949, Serial No. 588,339. Published Jan. 29, 1952. Class 26.

557,511. Preparation for Use as a Sedative, Analgesic, and Anti-Pyretic Containing a Barbiturate. Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y.
Filed Nov. 29, 1949, Serial No. 588,477. Published Apr. 17, 1951. Class 18.

557,512. Paper Napkins. The Diamond Match Company, New York, N. Y.
Filed Dec. 5, 1949, Serial No. 588,789. Published Jan. 15, 1952. Class 37.

557,513. Preparation To Relieve Upset Stomachs. Pharmaceuticals, Inc., Newark, N. J.
Filed Dec. 16, 1949, Serial No. 589,472. Published Oct. 3, 1950. Class 18.

557,514. Plain and Decorated Woodenware—Namely, Chopping Bowls, Mixing Bowls, Salad Bowls, Trays, Plates, Silver Boxes, Coasters, Nut Bowl and Mallet Combination Sets, Etc. The Woodcroftery Shops, Inc., Wayland, N. Y.
Filed Dec. 16, 1949, Serial No. 589,493. Published Jan. 29, 1952. Class 2.

557,515. Theatrical Grease Paint Used To Counteract Light Glare. The Cramer Chemical Co., Gardner, Kans.
Filed Dec. 19, 1949, Serial No. 589,569. Published Dec. 25, 1951. Class 51.

557,516. Medicinal Preparation for Use in the Treatment of Muscular Aches and Pains. Calixa Charles Martel, doing business as Calix-A Caps Company, Lewiston, Maine.
Filed Dec. 19, 1949, Serial No. 589,584. Published Nov. 20, 1951. Class 18.

557,517. Chemicals and Preparations and Compounds Thereof Used in Photographic Processes, Particularly Photographic Developers. General Aniline & Film Corporation, New York and Binghamton, N. Y.
Filed Dec. 21, 1949, Serial No. 589,718. Published Jan. 22, 1952. Class 6.

557,518. Body Lotion for Application to the Skin To Aid in the Prevention of Bed Sores, Sheet Burns, Dryness, and Other Mild Skin Irritations, for Use Particularly in Sick Rooms. Gerselle Pharmacal Company, Chicago, Ill.
Filed Dec. 22, 1949, Serial No. 589,782. Published Nov. 20, 1951. Class 18.

557,519. Lubricating Systems Consisting of Pumps, Reversing Valves, Couplers, Hose, Feeders and/or Distributors, Dividers, Indicators, Swivels, All Component Parts Thereof, Sold as a Unit. Trabon Engineering Corporation, Cleveland, Ohio.
Filed Dec. 24, 1949, Serial No. 589,927. Published Dec. 11, 1951. Class 23.

557,520. Paper Kitchen Bags. American Stores Company, Philadelphia, Pa.
Filed Dec. 29, 1949, Serial No. 590,059. Published Jan. 22, 1952. Class 2.

557,521. Preformed Solder Shapes (for Assembly With Parts To Be Soldered Prior to the Application of Heat). Lead Alloy Products Co., Detroit, Mich.
Filed Dec. 29, 1949, Serial No. 590,090. Published Jan. 22, 1952. Class 14.

557,522. Sedative and Antispasmodic Preparation. The William A. Webster Company, Memphis, Tenn.
Filed Dec. 30, 1949, Serial No. 590,204. Published Nov. 20, 1951. Class 18.

557,523. Cardiac and Anesthetic Drugs. E. R. Squibb & Sons, New York, N. Y.
Filed Dec. 31, 1949, Serial No. 590,239. Published Nov. 20, 1951. Class 18.

557,524. Perfumes. Irene F. Craft, Ridgewood, N. J., assignor to James L. Younghusband, Chicago, Ill.
Filed Jan. 11, 1950, Serial No. 590,653. Published Jan. 1, 1952. Class 51.

557,525. Sedatives in Tablet Form. Schenley Laboratories, Inc., New York, N. Y.
Filed Jan. 11, 1950, Serial No. 590,708. Published Oct. 17, 1950. Class 18.

557,526. Carpenter's Hand Tool Used in Cutting, in Proper Profile and Depth, the Countersink Space for the Setting of Butt Hinges. William A. Priebe, doing business as E-Z Mark Tools, Los Angeles, Calif.
Filed Jan. 12, 1950, Serial No. 590,759. Published Jan. 22, 1952. Class 23.

557,527. Chlorinated Naphthalene Compound for Use in Fluid Pressure Seals, Traps, Monometers, and CO_2 Recorders. Republic Flow Meters Company, Chicago, Ill.
Filed Jan. 17, 1950, Serial No. 590,992. Published Jan. 22, 1952. Class 6.

557,528. Kits or Packages Containing Cooking Tubes or Molds, Tongs, and Recipes for Making Pastries. Mrs. Caroline Cordray, Cleveland, Ohio.
Filed Jan. 24, 1950, Serial No. 591,358. Published Nov. 13, 1951. Class 50.

557,529. Clamp Type Volt-Ammeters. Samuel J. Koch, doing business as The Pyramid Instrument Company, New York, N. Y.
Filed Jan. 28, 1950, Serial No. 591,628. Published Jan. 15, 1952. Class 26.

557,530. Refrigerators—Namely, Ice Refrigerators, Etc. The Coolerator Company, Duluth, Minn.
Filed Feb. 2, 1950, Serial No. 591,837. Published May 8, 1951. Class 31.

557,531. Finger Rings. Granat Bros., San Francisco, Calif.
Filed Feb. 13, 1950, Serial No. 592,368. Published Oct. 31, 1950. Class 28.

557,532. Sandwiches. Marshall's, Omaha, Nebr.
Filed Feb. 21, 1950, Serial No. 592,823. Published Jan. 15, 1952. Class 46.

557,533. Removable Filter Paper for Attachment to an Oil Filter of an Automobile, Sold in Bulk. Retlif Corporation, Hollywood, Calif.
Filed Feb. 21, 1950, Serial No. 592,843. Published Jan. 15, 1952. Class 37.

557,534. Plastic Sheet Material Simulating Leather. Jamestown Finishing Products, Inc., Jamestown, N. Y.
Filed Mar. 2, 1950, Serial No. 593,275. Published Nov. 13, 1951. Class 50.

557,535. Garden, Grass, and Flower Seeds. The Page Seed Company, Greene, N. Y.
Filed Mar. 2, 1950, Serial No. 593,284. Published Jan. 22, 1952. Class 1.

557,536. Facial Creams, Lip and Cheek Rouges, Etc. Sonya Rose, Beverly Hills, Calif.
Filed Mar. 4, 1950, Serial No. 593,444. Published Dec. 11, 1951. Class 51.

557,537. Non-Electrical Advertising Signs. Snyder & Black, New York, N. Y.
Filed Mar. 7, 1950, Serial No. 593,570. Published Nov. 13, 1951. Class 50.

557,538. Wide-Angle Lens for Installation in a Door for Use as a Door Peep. Danca Products Corporation, New York, N. Y.
Filed Mar. 8, 1950, Serial No. 593,585. Published Dec. 11, 1951. Class 26.

557,539. Knitted Socks (for Wear) Having Reinforced Soles of Felt, Leather, or Imitation Leather; Shoes, Slippers, and Sandals. John Carr Doughty Limited, Leicester, England.
Filed Mar. 14, 1950, Serial No. 593,911. Published Jan. 22, 1952. Class 39.

557,540. Bolts. Henry Lindsay Limited, Bradford, England.
Filed Dec. 6, 1949, Serial No. 594,508. Published Jan. 22, 1952. Class 13.

557,541. Synchronous Electric Motor Operated Time Control Switch Which Causes an Electric Refrigerator To Defrost by Controlling the Current Thereto. Paragon Electric Company, Two Rivers, Wis.
Filed Mar. 29, 1950, Serial No. 594,858. Published Jan. 22, 1952. Class 26.

557,542. Water Ice Confections. Vitafreze Corporation, Sacramento, Calif.
Filed Apr. 3, 1950, Serial No. 595,178. Published Jan. 29, 1952. Class 46.

557,543. Carbon Paper and Ink Ribbons. Underwood Corporation, New York, N. Y.
Filed Apr. 6, 1950, Serial No. 595,343. Published Oct. 9, 1951. Class 11.

557,544. Composite Metal Products of Fusion Welded Construction Such as Blanks for Hack Saw Blades, Chain Saw Teeth and Inserted Saw Teeth. Universal-Cyclops Steel Corporation, Bridgeville, Pa.
Filed Apr. 8, 1950, Serial No. 595,482. Published Jan. 22, 1952. Class 14.

557,545. Piece Goods of Cotton, Linen, and Synthetic Fibres; Luncheon Sets, Pillow Cases, Bed Sheets, Furniture Scarfs, Doilies, Runners, Towels, Table Cloths, and Chair Back Sets. The American Fabrics Company, Bridgeport, Conn.
Filed Apr. 19, 1950, Serial No. 595,932. Published Jan. 29, 1952. Class 42.

557,546. Receptacles—Namely, Plastic Tumblers, Facial Tissue Holders, Portable Soap Flake Dispensers, Portable Dispensing Containers for Absorbent Cotton, Powder Boxes, Brush Holders, Cleanser Can Holders, and Wastebaskets. Harper J. Ransburg Co., Inc., Indianapolis, Ind.
Filed Apr. 24, 1950, Serial No. 596,238. Published Jan. 22, 1952. Class 2.

557,547. Textile Spinning Machinery. Platt Brothers (Sales) Limited, Oldham, Lancashire, England.
Filed Apr. 26, 1950, Serial No. 596,359. Published Dec. 18, 1951. Class 23.

557,548. Metal Stampings for General Use in the Industrial Arts. The Geometric Stamping Company, Cleveland, Ohio.
Filed Apr. 29, 1950, Serial No. 596,571. Published Jan. 22, 1952. Class 14.

557,549. Supercalendered Sulphite Paper. Rhinelander Paper Company, Rhinelander, Wis.
Filed May 3, 1950, Serial No. 596,803. Published Jan. 22, 1952. Class 37.

557,550. Candy Cigarettes. Sylvan Sweets Co., Easton, Pa.
Filed May 5, 1950, Serial No. 596,959. Published Jan. 22, 1952. Class 46.

557,551. Household Disinfectant. Polk Miller Products Corp., Richmond, Va.
Filed May 12, 1950, Serial No. 597,351. Published Jan. 22, 1952. Class 6.

557,552. Prepared Meats in Tin and Glass, Etc. United Packers, Inc., Chicago, Ill.
Filed May 13, 1950, Serial No. 597,421. Published Jan. 22, 1952. Class 46.

557,553. Apparatus for Feeding and/or Removing Work Pieces in Association With Power Presses and the Like. Rockwell Manufacturing Company, Pittsburgh, Pa., assignor to Emhart Manufacturing Company, a corporation of Delaware.
Filed May 18, 1950, Serial No. 597,700. Published Dec. 4, 1951. Class 23.

557,554. Wool Blankets Not in the Piece (Other Than Horse Blankets). Charles Early & Co. Limited, Witney, England.
Filed May 23, 1950, Serial No. 597,952. Published Jan. 29, 1952. Class 42.

557,555. Men's Wearing Apparel—Namely, Work and Dress Shirts, Trousers, Underwear, T-Shirts, Shoes, Jackets, and Socks. David B. Rosenthal, doing business as S. & R. Surplus Sales, Terre Haute, Ind.
Filed June 6, 1950, Serial No. 598,680. Published Dec. 25, 1951. Class 39.

557,556. Concentrate of Wheat Germ Oil Containing Certain Therapeutically Active Values Naturally Occurring in Wheat Germ. The Vio Bin Corporation, Monticello, Ill.
Filed June 9, 1950, Serial No. 598,876. Published Nov. 20, 1951. Class 18.

557,557. Section in a Magazine. Models Publishing Company, Inc., New York, N. Y.
Filed July 11, 1950, Serial No. 600,501. Published Jan. 1, 1952. Class 38.

557,558. Cameras, Flash Attachments, and Camera Cases. Whitehouse Products, Inc., Brooklyn, N. Y.
Filed June 15, 1950, Serial No. 599,203. Published Jan. 8, 1952. Class 26.

557,559. Costume Jewelry—Namely, Earrings, Brooches, Necklaces, Bracelets, and Ornamental Pins. William Rand, Inc., New York, N. Y.
Filed June 16, 1950, Serial No. 599,259. Published June 19, 1951. Class 28.

557,560. Prepared Graphite in Powdered Form for Admixture With Water To Provide a Spray or Wash for Ingot Molds and Stools, To Facilitate Molding Operations. The United States Graphite Company, Division of the Wickes Corporation, Saginaw, Mich.
Filed June 28, 1950, Serial No. 599,912. Published Jan. 15, 1952. Class 1.

557,561. Flavored Antibiotic Preparation for Oral Administration Used in the Treatment of Conditions Caused by Pathogenic Organisms. Chas. Pfizer & Co., Inc., Brooklyn, N. Y., now by merger Chas. Pfizer & Co., Inc., a corporation of Delaware.
Filed June 29, 1950, Serial No. 599,971. Published June 12, 1951. Class 18.

557,562. Jewelry for Personal Wear—Namely, Finger Rings, Bracelets, Watch Bands, Cuff Links, Tie Bars, Earrings, Necklaces, Lockets; and Fraternal Jewelry—Namely, Finger Rings and Ornamental Pins, Etc. Silver Brothers, Atlanta, Ga.
Filed July 3, 1950, Serial No. 600,196. Published July 31, 1951. Class 28.

557,563. Putties of Various Grades, Such as White Lead Putty, Pure Linseed Oil Putty, and Putties for Steel, Aluminum, and Other Metal Sash. Lorimer Paint Works, Inc., Brooklyn, N. Y.
Filed July 6, 1950, Serial No. 600,295. Published Dec. 25, 1951. Class 12.

557,564. Porcelain Coated Metal Sheets and Plates for Building Interiors and Exteriors—Namely, Toilet Partitions, Shower Stalls, Wainscoting, Ceilings and Walls. McMath-Axilrod Corporation, Dallas, Tex.
Filed July 6, 1950, Serial No. 600,297. Published Dec. 25, 1951. Class 12.

557,565. Food for Dogs, Cats, and Other Carnivorous Animals. Marnat Packing Company, Bennettsville, S. C.
Filed July 10, 1950, Serial No. 600,440. Published Jan. 22, 1952. Class 46.

557,566. Portable and Stationary Belt Conveyors, Etc. Barber-Greene Company, Aurora, Ill.
Filed July 12, 1950, Serial No. 600,530. Published Jan. 15, 1952. Class 23.

557,567. Self-Polishing Wax for Use on Automobiles and Household Furniture. Connecticut Chemical Research Corp., Bridgeport, Conn.
Filed July 13, 1950, Serial No. 600,571. Published Dec. 25, 1951. Class 4.

557,568. All Types of Steel and Alloy Steel Components To Be Assembled in Finished Articles and Produced by Forging, Stamping, and Cutting. The Defiance Automatic Screw Company, Defiance, Ohio.
Filed July 18, 1950, Serial No. 600,822. Published Jan. 22, 1952. Class 14.

557,569. Automatic Quick Freezing Machines for Food Products. Freezing Equipment Sales, Inc., York, Pa.
Filed July 18, 1950, Serial No. 600,827. Published Jan. 1, 1952. Class 31.

557,570. Insecticides. Sidney J. Coyne, doing business as Coyne Chemical Company, Los Angeles, Calif.
Filed July 20, 1950, Serial No. 600,946. Published Jan. 22, 1952. Class 6.

557,571. Jewelry for Personal Wear Not Including Watches—Namely, Bracelets, Neck Chains, Brooches, Lockets, Necklaces, and Ornamental Pins, All Made or Plated With Precious Metals. The Curtman Co., Inc., Providence, R. I.
Filed July 22, 1950, Serial No. 601,098. Published Nov. 13, 1951. Class 28.

557,572. Shampoo. Cynthia Andrews, Inc., New York, N. Y.
Filed July 28, 1950, Serial No. 601,347. Published Jan 15, 1952. Class 52.

557,573. Automobile Engine Parts—Namely, Pistons, Piston Pins, Engine Bearings, Connecting Rods, Water Pumps, Valve Springs, Rod Dippers, Water Tubes. Bohn Aluminum & Brass Corporation, Detroit, Mich.
Filed July 29, 1950, Serial No. 601,421. Published Jan. 29, 1952. Class 23.

557,574. Brake Lining. Grizzly Manufacturing Company, Los Angeles and Bell, Calif., and Paulding, Ohio.
Filed Aug. 8, 1950, Serial No. 601,900. Published Dec. 25, 1951. Class 35.

557,575. Women's Sportswear—Namely, Blouses, Skirts, and Sweaters. Meri Marr Blouse Company, Brodheadsville, Pa.
Filed Aug. 9, 1950, Serial No. 601,992. Published Jan. 22, 1952. Class 39.

557,576. Jewelers' Gold, Jewelers' Solders, Rolled Gold Plate, Solder Flushed Gold Sheet, and Solder Flushed Rolled Gold Plate; Also Seamless Wire, Including Solder Filled Gold Wire, Solder Filled Gold Plated Wire, Solder Flushed Gold Wire, and Solder Flushed Gold Plated Wire. I. Stern & Co., Inc., Mount Vernon, N. Y.
Filed Aug. 16, 1950, Serial No. 602,294. Published Jan. 22, 1952. Class 14.

557,577. Antenna Support Towers. South Bend Lathe Works, South Bend, Ind.
Filed Aug. 18, 1950, Serial No. 602,426. Published Dec. 25, 1951. Class 12.

557,578. Fire Extinguisher Grenades, and Kits Containing Chemical Preparations for Extinguishing Fires. Red Comet Incorporated, Littleton, Colo.
Filed Aug. 28, 1950, Serial No. 602,856. Published Jan. 22, 1952. Class 6.

557,579. Hats, Suits, Overcoats, Topcoats, Shirts, Sport Coats, and Sport Jackets for Men and Boys. Jules S. Cohen, New York, N. Y.
Filed Aug. 29, 1950, Serial No. 602,890. Published Dec. 25, 1951. Class 39.

557,580. Hatching Eggs and Baby Chicks. Miller Hatchery, Waverly, Iowa.
Filed Sept. 2, 1950, Serial No. 603,122. Published Jan. 15, 1952. Class 1.

557,581. Canned Frozen Cranberry Juice for Food Purposes. National Cranberry Association, Hanson, Mass.
Filed Aug. 29, 1950, Serial No. 603,340. Published Jan. 8, 1952. Class 46.

557,582. Flat Top Bifocal Ophthalmic Lenses. Imperial Optical Company Ltd., Toronto, Ontario, Canada.
Filed Sept. 6, 1950, Serial No. 603,344. Published Jan. 22, 1952. Class 26.

557,583. Sterling Silver and Silver-Plated Hollow Ware. Quaker Silver Co., Inc., North Attleboro, Mass.
Filed Sept. 19, 1950, Serial No. 603,746. Published Dec. 25, 1951. Class 28.

557,584. Ladies' Dresses and Dress Ensembles, Consisting of Dress and Jacket, Skirts, Blouses, Coats, and Suits. Packard Dresses, Inc., New York, N. Y.
Filed Sept. 29, 1950, Serial No. 604,216. Published Jan. 22, 1952. Class 39.

557,585. Ladies' Dresses and Dress Ensembles, Consisting of Dress and Jacket, Skirts, Blouses, Coats, and Suits. Packard Dresses, Inc., New York, N. Y.
Filed Sept. 29, 1950, Serial No. 604,217. Published Jan. 22, 1952. Class 39.

557,586. Cheeses and Fruit Preserves. Absalon Brands, Inc., New York, N. Y.
Filed Oct. 2, 1950, Serial No. 604,287. Published Dec. 11, 1951. Class 46.

557,587. Metallic Bellows, Metallic Bellows Expansion Joints, Expansion Joint Anchor Bases, Pipe Guides, and Surge Arrestors for the Prevention of Liquid Hammer in a Fluid Line. Solar Aircraft Company, San Diego, Calif.
Filed Oct. 12, 1950, Serial No. 604,811. Published Jan. 22, 1952. Class 13.

557,588. Cardboard Sandwich Trays. Gerald W. Wieland, Indianapolis, Ind.
Filed Oct. 13, 1950, Serial No. 604,877. Published Jan. 22, 1952. Class 2.

557,589. Bags Made of Paper, Fabric, Combinations of Paper and Fabric and Combinations of Paper and/or Fabric With a Plastic. Bemis Bro. Bag Company, St. Louis, Mo.
Filed Oct. 14, 1950, Serial No. 604,898. Published Jan. 22, 1952. Class 2.

557,590. Men's Sport Coats, Suits, and Topcoats. Major Clothing Co., Inc., Bridgeton, N. J.
Filed Oct. 18, 1950, Serial No. 605,102. Published Jan. 22, 1952. Class 39.

557,591. Gas and Electric Household Refrigerators and Electric Household Freezers. Charles A. Navlen, New York, N. Y.
Filed Oct. 31, 1950, Serial No. 605,671. Published Jan. 8, 1952. Class 31.

557,592. Chlorine. Canadian Industries Limited, Montreal, Quebec, Canada.
Filed Nov. 1, 1950, Serial No. 605,721. Published Jan. 22, 1952. Class 6.

557,593. Light Sensitive Materials for Use in Photography — Namely, Sensitized Photographic Papers, Sensitized Photographic Plates, Sensitized Photographic, Cinematographic, and X-Ray Films. Gevaert Photo-Producten N. V., Mortsel, Belgium.
Filed Nov. 6, 1950, Serial No. 605,950. Published Dec. 11, 1951. Class 26.

557,594. Light Sensitive Materials for Use in Photography — Namely, Sensitized Photographic Papers, Sensitized Photographic Plates, Sensitized Photographic, Cinematographic, and X-Ray Films. Gevaert Photo-Producten N. V., Mortsel, Belgium.
Filed Nov. 6, 1950, Serial No. 605,951. Published Dec. 11, 1951. Class 26.

557,595. Pre-Shaped Rubber Covers for Table Tops. The Danbury Rubber Company, Inc., Danbury, Conn.
Filed Nov. 7, 1950, Serial No. 605,999. Published Nov. 13, 1951. Class 50.

557,596. Cement for Bonding the Bristles of a Brush. H. V. Hardman Co. Incorporated, Belleville, N. J.
Filed Nov. 7, 1950, Serial No. 606,015. Published Jan. 22, 1952. Class 5.

557,597. High Protein Macaroni. The American Beauty Macaroni Co., Kansas City, Mo.
Filed Nov. 8, 1950, Serial No. 606,066. Published Dec. 4, 1951. Class 46.

557,598. Medicinal Preparation Containing Various Pharmaceutical Products, Including Penicillin, and Used for Treatment of Various Types of Infection Where Oral Therapy Is Indicated. Schenley Laboratories, Inc., New York, N. Y.
Filed Nov. 8, 1950, Serial No. 606,088. Published Nov. 27, 1951. Class 18.

557,599. Correspondence or Mailing Envelopes. Tension Envelope Corporation, Kansas City, Mo.
Filed Nov. 9, 1950, Serial No. 606,184. Published Jan. 22, 1952. Class 37.

557,600. Knitted Caps Convertible Into a Neck Piece and Vice Versa. Cap-Tur-Neck Co., Los Angeles, Calif.
Filed Nov. 13, 1950, Serial No. 606,266. Published Jan. 22, 1952. Class 39.

557,601. Bunsen Burners Used for Heating Objects and Materials in Laboratories, Such as Flasks, Wax and the Like. Hanau Engineering Company, Inc., Buffalo, N. Y.
Filed Nov. 14, 1950, Serial No. 606,379. Published Jan. 22, 1952. Class 26.

557,602. Rodenticide. Astor Exterminating Co., Boston, Mass.
Filed Nov. 16, 1950, Serial No. 606,451. Published Jan. 22, 1952. Class 6.

557,603. Hats for Men. Hat Corporation of America, Norwalk, Conn.
Filed Nov. 16, 1950, Serial No. 606,472. Published Dec. 25, 1951. Class 39.

557,604. Face Shields and Goggles. United States Safety Service Co., Kansas City, Mo.
Filed Nov. 16, 1950, Serial No. 606,501. Published Jan. 15, 1952. Class 26.

557,605. Pipe Line Fittings—Namely, Strainers and Fluid Mixing Valves. Walker, Crosweller & Company Limited, Cheltenham, England.
Filed Nov. 15, 1950, Serial No. 606,590. Published Jan. 29, 1952. Class 13.

557,606. Drapery and Upholstery Fabrics of Cotton and Rayon Fibers. Titus Blatter & Company, New York, N. Y.
Filed Nov. 18, 1950, Serial No. 606,596. Published Jan. 22, 1952. Class 42.

557,607. Combs. Howard H. Born, doing business as B & S Products Co., New York, N. Y.
Filed Nov. 24, 1950, Serial No. 606,851. Published Jan. 22, 1952. Class 40.

557,608. Crisp Cheese Filled Toasted Appetizers. Edmund M. Henderson, doing business under the firm name and style of The Bluette Co., Ocean City, N. J.
Filed Nov. 27, 1950, Serial No. 606,975. Published Jan. 29, 1952. Class 46.

557,609. Calcium Sulphate. United States Gypsum Company, Chicago, Ill.
Filed Nov. 28, 1950, Serial No. 607,056. Published Jan. 22, 1952. Class 6.

557,610. Waterproof, Transparent, and Flexible Cement for Use in Jointing Glass, China, Metal, Wood, Fabrics, and Plastics. Samuel Cabot Incorporated, Boston, Mass.
Filed Nov. 29, 1950, Serial No. 607,071. Published Jan. 22, 1952. Class 5.

557,611. Valves for Use in and in Connection With the Hydraulic Transmission of Power—Namely, Directional Control Valves, Pilot Valves, Suction Valves, Surge Valves, Resistance Valves, Relief Valves, Check Valves, Combination Valves Each of Which Is a Plurality of Valves Combined Into a Unit, Etc. The Oilgear Company, Milwaukee, Wis.
Filed Dec. 1, 1950, Serial No. 607,186. Published Jan. 29, 1952. Class 13.

557,612. Valves for Use in and in Connection With the Hydraulic Transmission of Power—Namely, Directional Control Valves, Pilot Valves, Suction Valves, Surge Valves, Resistance Valves, Relief Valves, Check Valves, Combination Valves Each of Which Is a Plurality of Valves Combined Into a Unit, Etc. The Oilgear Company, Milwaukee, Wis.
Filed Dec. 1, 1950, Serial No. 607,187. Published Jan. 29, 1952. Class 13.

557,613. Brass. The American Brass Company, Waterbury, Conn.
Filed Dec. 5, 1950, Serial No. 607,278. Published Jan. 22, 1952. Class 14.

557,614. Annealed Hot-Worked Alloy Die Steel. Heppenstall Company, Pittsburgh, Pa.
Filed Dec. 5, 1950, Serial No. 607,289. Published Jan. 22, 1952. Class 14.

557,615. Paper Window Bags. Bemis Bro. Bag Company, St. Louis, Mo.
Filed Dec. 6, 1950, Serial No. 607,312. Published Jan. 22, 1952. Class 2.

557,616. Hats and Caps of All Kinds for Men, Women, and Children. Etchison Hat Company, Inc., Richmond, Va.
Filed Dec. 6, 1950, Serial No. 607,324. Published Jan. 22, 1952. Class 39.

557,617. Hairbrushes. Neiman-Marcus, Dallas, Tex.
Filed Dec. 7, 1950, Serial No. 607,391. Published Oct. 30, 1951. Class 29.

557,618. Permanent Magnet Alloys. The Indiana Steel Products Company, Valparaiso, Ind.
Filed Dec. 9, 1950, Serial No. 607,502. Published Jan. 22, 1952. Class 14.

557,619. Magnetic Alloys. The Indiana Steel Products Company, Valparaiso, Ind.
Filed Dec. 9, 1950, Serial No. 607,503. Published Jan. 22, 1952. Class 14.

557,620. Honey, Salad Dressing, Prepared Mustard, Peanut Butter, Salted Nuts, Worcestershire Sauce, Olives, Food Flavoring Extracts, Coffee, Tea, Vinegar, and Table Syrups. Jewett & Sherman Company, doing business as Holsum Products, Milwaukee, Wis.
Filed Dec. 18, 1950, Serial No. 607,818. Published Jan. 29, 1952. Class 46.

557,621. Soap Powder, Household Cleanser, and Dishwashing Compound. Francis H. Leggett & Company, New York, N. Y.
Filed Dec. 18, 1950, Serial No. 607,821. Published Dec. 18, 1951. Class 32.

557,622. Shoe Trees. George E. Belcher Company, Stoughton, Mass.
Filed Dec. 21, 1950, Serial No. 607,924. Published Nov. 13, 1951. Class 50.

557,623. Chemical Products for Use as Textile Auxiliary Agents. Ciba Limited, Basel, Switzerland.
Filed Dec. 21, 1950, Serial No. 607,935. Published Jan. 22, 1952. Class 6.

557,624. Chemical Products for Use as Textile Auxiliary Agents, Emulsifiers. Ciba Limited, Basel, Switzerland.
Filed Dec. 21, 1950, Serial No. 607,936. Published Jan. 22, 1952. Class 6.

557,625. Coal Tar Colors. Ciba Limited, Basle, Switzerland.
Filed Dec. 21, 1950, Serial No. 607,940. Published Jan. 22, 1952. Class 6.

557,626. Mounted and Unmounted Blank Printing Plates. Farrington Manufacturing Company, Boston, Mass.
Filed Dec. 22, 1950, Serial No. 607,984. Published Nov. 13, 1951. Class 50.

557,627. Women's Caps, Jackets, Sweaters, Outer Shirts, Etc. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,991. Published Dec. 25, 1951. Class 39.

557,628. Men's Caps, Jackets, Sweaters, Outer Shirts, Etc. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,994. Published Dec. 25, 1951. Class 39.

557,629. Brushes — Namely, Paint Brushes, Varnish Brushes, Paste Brushes, Smoothing Brushes, Stucco Brushes, Kalsomine and Whitewash Brushes, Paperhangers' Paste Brushes and Smoothing Brushes, Plasterers' Brushes or Skimmers, Radiator Brushes, Extension Brushes, Stencil Brushes, Billposting Brushes, Glue Brushes, Dusting Brushes, Stippling Brushes. Joseph Lieberman & Sons, Inc., Philadelphia, Pa.
Filed Dec. 22, 1950, Serial No. 608,010. Published Nov. 27, 1951. Class 29.

557,630. Memo Book Covers, Check Book Covers, and Other Book Covers and Filing Envelopes of Paper or Cloth. George Seelman & Sons Co., Milwaukee, Wis.
Filed Dec. 22, 1950, Serial No. 608,021. Published Jan. 15, 1952. Class 37.

557,631. Bracelets and Watch Bracelets Sold Separately From the Watches. Jacoby-Bender, Inc., New York, N. Y.
Filed Dec. 23, 1950, Serial No. 608,039. Published Dec. 25, 1951. Class 28.

557,632. Thin Resinous Fabric-Like Film for General Use. Doughboy Industries, Inc., New Richmond, Wis.
Filed Dec. 26, 1950, Serial No. 608,059. Published Jan. 15, 1952. Class 1.

557,633. Slip-Resistant Floor Polish. Walter G. Legge Company, Inc., New York, N. Y.
Filed Jan. 2, 1951, Serial No. 608,277. Published Dec. 25, 1951. Class 4.

557,634. Tank Blocks for Glass Melting Furnaces. Laclede-Christy Company, Chicago, Ill.
Filed Jan. 4, 1951, Serial No. 608,361. Published Dec. 11, 1951. Class 12.

557,635. Castable Refractory. Laclede-Christy Company, Chicago, Ill.
Filed Jan. 4, 1951, Serial No. 608,362. Published Dec. 25, 1951. Class 12.

557,636. Artificial Edible Fish Bait. Kautzky Manufacturing Company, Fort Dodge, Iowa.
Filed Dec. 18, 1950, Serial No. 608,401. Published Jan. 22, 1952. Class 22.

557,637. Chemical Compositions and Mixtures, Etc. Magnesium Elektron Limited, Clifton Junction, England.
Filed Jan. 10, 1951, Serial No. 608,614. Published Jan. 22, 1952. Class 6.

557,638. Pipe Couplings. Marco Company, Inc., Wilmington, Del.
Filed Jan. 10, 1951, Serial No. 608,615. Published Jan. 29, 1952. Class 13.

557,639. Men's Outer Shirts and Collars. Austin Reed Limited, London, England.
Filed Jan. 11, 1951, Serial No. 608,676. Published Dec. 25, 1951. Class 39.

557,640. Automotive Exhaust Systems and Parts Therefor—Namely, Exhaust Headers, Mufflers, Extensions Between Exhaust Headers and Mufflers, Tail Pipes, and Gaskets, Bolts and Clamps for Inter-Connecting Said Parts Sold as a Unit. Jesse S. Belond, doing business as Southern California Muffler Company, Culver City, Calif., assignor to Southern California Muffler Company, Culver City, Calif., a firm.
Filed Jan. 13, 1951, Serial No. 608,739. Published Jan. 22, 1952. Class 23.

557,641. Porcelain Figurines. Castle Distributing Corporation, New York, N. Y.
Filed Jan. 19, 1951, Serial No. 608,981. Published Nov. 13, 1951. Class 50.

557,642. Partially Printed Marginally Punched Cards. Charles R. Hadley Company, Los Angeles, Calif.
Filed Jan. 20, 1951, Serial No. 609,035. Published Jan. 15, 1952. Class 37.

557,643. Grooved Phonograph Records. Decca Records, Inc., New York, N. Y.
Filed Jan. 22, 1951, Serial No. 609,079. Published Jan. 22, 1952. Class 36.

557,644. Men's, Boys', Women's, Misses', and Children's Underwear; Men's, Boys', Women's, Misses', and Children's Sleeping Garments; and Men's, Boys', Women's, Misses', and Children's Outerwear—Namely, Shirts, Balbriggan Cardigans, and Balbriggan Creepers. Dri-Set Sales Company, Chattanooga, Tenn.
Filed Jan. 23, 1951, Serial No. 609,123. Published Jan. 22, 1952. Class 39.

557,645. Diuretic. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,205. Published Nov. 20, 1951. Class 18.

557,646. Local Anesthetic. Sharp & Dohme, Incorporated, Philadelphia, Pa.
Filed Jan. 24, 1951, Serial No. 609,210. Published Nov. 20, 1951. Class 18.

557,647. Tilting Mixer, Revolving Coating Pans, Etc. Savage Bros. Co., Chicago, Ill.
Filed Feb. 1, 1951, Serial No. 609,495. Published Jan. 15, 1952. Class 23.

557,648. Preparation Used in the Treatment of Obesity To Counteract the Feeling of Fatigue. Chicago Pharmacal Company, Chicago, Ill.
Filed Feb. 2, 1951, Serial No. 609,532. Published Nov. 20, 1951. Class 18.

557,649. Spool Racks. M. B. Daniels & Co., Inc., New York, N. Y.
Filed Feb. 3, 1951, Serial No. 609,587. Published Jan. 22, 1952. Class 40.

557,650. Refrigerated Cabinets and Multiple Combination Units Thereof Known as Refrigerated Farm Locker Plants, Etc. Sanitary Refrigerator Company, Fond du Lac, Wis.
Filed Feb. 6, 1951, Serial No. 609,700. Published Jan. 15, 1952. Class 31.

557,651. Partially Printed or Blank Accounting Forms for Use in Accounting Systems, Etc. The Reynolds & Reynolds Company, Dayton, Ohio.
Filed Jan. 27, 1951, Serial No. 609,760. Published Jan. 22, 1952. Class 37.

557,652. Thyroid Preparation. Armour and Company, Chicago, Ill.
Filed Feb. 9, 1951, Serial No. 609,840. Published Nov. 20, 1951. Class 18.

557,653. Toilet Paper, Paper Facial Tissues, Paper Napkins, and Paper Towels. Gotham Tissue Corporation, Salem, N. Y.
Filed Feb. 9, 1951, Serial No. 609,855. Published Jan. 15, 1952. Class 37.

557,654. Cover Paper Used Chiefly for Boxes and Paper Board. Nashua Gummed and Coated Paper Company, Nashua, N. H.
Filed Feb. 9, 1951, Serial No. 609,877. Published Jan. 22, 1952. Class 37.

557,655. Beachwear, Specifically Sport Shirts, Bathing Suits, Bathing Trunks, Play Suits, and Beach Coats for Women and Girls. Teen-Age Beachwear Corp., Brooklyn, N. Y.
Filed Feb. 9, 1951, Serial No. 609,891. Published Dec. 25, 1951. Class 39.

557,656. Filter Elements, Such as Porous Cups of Lightly Cemented Granular Material, for Filtering Fuel Oil, Gasoline, Chemicals, Pharmaceuticals, Wine and Compressed Air. Klemm Automotive Products Company, Chicago, Ill.
Filed Feb. 10, 1951, Serial No. 609,931. Published Jan. 22, 1952. Class 31.

557,657. Vitamins and Minerals in Combined Dosage Form. Ayerst, McKenna & Harrison Limited, Rouses Point and New York, N. Y.
Filed Feb. 13, 1951, Serial No. 609,997. Published Nov. 20, 1951. Class 18.

557,658. Outer Shirts and Trousers, Poloshirts, and Pajamas for Boys and Girls. Max Shrage Company, Inc., New York, N. Y.
Filed Feb. 13, 1951, Serial No. 610,031. Published Jan. 22, 1952. Class 39.

557,659. Antibiotic Anesthetic Capsules. Foley & Company, Chicago, Ill.
Filed Feb. 17, 1951, Serial No. 610,209. Published Nov. 27, 1951. Class 18.

557,660. Medicinal Preparation Containing Sulfadiazine, Sulfamerazine and Sulfamethazine Used in the Treatment of Infections Due to Streptococci, Pneumococci, and Other Sulfonamide-Susceptible Organisms. Eli Lilly and Company, Indianapolis, Ind.
Filed Feb. 19, 1951, Serial No. 610,282. Published Nov. 20, 1951. Class 18.

557,661. Slide Fasteners, Union Joints and Couplings Made of Metal, Fuel Pressure Regulating Valves, Fuel Non-Return Valves, Curtain Rods, Metal Pipes and Tubes, and Tubes of Synthetic Resin Plastics for Plumbing Purposes. Imperial Chemical Industries Limited, London and Millbank, London, England.
Filed Feb. 20, 1951, Serial No. 610,321. Published Jan. 22, 1952. Class 13.

557,662. Pregnenolone Acetate in Dosage Form. Wyeth Incorporated, Philadelphia, Pa.
Filed Feb. 20, 1951, Serial No. 610,351. Published Nov. 27, 1951. Class 18.

557,663. Antihemorrhagic Preparations. E. R. Squibb & Sons, New York, N. Y.
Filed Feb. 21, 1951, Serial No. 610,386. Published Nov. 20, 1951. Class 18.

557,664. Remedy for Colds, Coughs, Sore Throat, Hoarseness, Bronchitis, Grippe, Catarrh, Asthma, and Hay Fever. The W. H. Comstock Company Limited, doing business under the trade name and style of The Catarrhozone Company, Montreal, Quebec, Canada, and Morristown, N. Y.
Filed Feb. 23, 1951, Serial No. 610,414. Published Nov. 27, 1951. Class 18.

557,665. Combination of Adrenal Hormones. Schering Corporation, Bloomfield, N. J.
Filed Feb. 23, 1951, Serial No. 610,467. Published Nov. 27, 1951. Class 18.

557,666. Vermifuge for Removal of Large Roundworms and Cecal Worms in Chickens and Turkeys of All Ages. Barker, Moore & Mein Company, Philadelphia, Pa.
Filed Feb. 28, 1951, Serial No. 610,609. Published Nov. 27, 1951. Class 18.

557,667. Vitamin Supplement for Poultry Mashes. Barker, Moore & Mein Company, Philadelphia, Pa.
Filed Feb. 28, 1951, Serial No. 610,610. Published Nov. 27, 1951. Class 18.

557,668. Women's Hosiery. Sapphire Hosiery Corporation, New York, N. Y., now by change of name Sapphire Corporation.
Filed Feb. 28, 1951, Serial No. 610,637. Published Dec. 25, 1951. Class 39.

557,669. Analgesic. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Feb. 28, 1951, Serial No. 610,640. Published Nov. 27, 1951. Class 18.

557,670. Anesthetic. Smith, Kline & French Laboratories, Philadelphia, Pa.
Filed Feb. 28, 1951, Serial No. 610,641. Published Nov. 27, 1951. Class 18.

557,671. Candy. Peoples Drug Stores, Inc., Washington, D. C.
Filed Mar. 6, 1951, Serial No. 610,921. Published Jan. 22, 1952. Class 46.

557,672. Black Pepper; Crushed, Red, Italian Style Pepper; Etc. McCormick & Company, Incorporated, Baltimore, Md.
Filed Mar. 8, 1951, Serial No. 611,032. Published Jan. 22, 1952. Class 46.

557,673. Ornamental Stone-Appearing Insulated Siding. Bird & Son, Inc., East Walpole, Mass.
Filed Mar. 10, 1951, Serial No. 611,125. Published Dec. 25, 1951. Class 12.

557,674. Paper Towels. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 10, 1951, Serial No. 611,163. Published Jan. 22, 1952. Class 37.

557,675. Profile Dressing and Grinding Machines. Airborne Accessories Corporation, Hillside, N. J.
Filed Mar. 14, 1951, Serial No. 611,254. Published Jan. 15, 1952. Class 23.

557,676. Non-Electric Hair Wavers and Curlers. Krad-L Laboratory, Reading, Pa.
Filed Mar. 14, 1951, Serial No. 611,280. Published Jan. 22, 1952. Class 40.

557,677. Cookies. Zion Industries, Inc., Zion, Ill.
Filed Mar. 14, 1951, Serial No. 611,325. Published Jan. 8, 1952. Class 46.

557,678. Economic Poisons Composition for Preserving Wood, Fabric, and Rope Against Decay, Mold, and Mildew and Protecting Them From Attack by Termites, Lyctus Beetles, and Certain Other Wood Destroying Insects. Fungitrol Chemicals Incorporated, Hillside, N. J.
Filed Mar. 16, 1951, Serial No. 611,418. Published Dec. 25, 1951. Class 6.

557,679. Gages for Use in Screw Connections With or Without Wire Thread—Namely, Screw Thread Gages and Flush Gages. Heli-Coil Corporation, Danbury, Conn.
Filed Mar. 16, 1951, Serial No. 611,425. Published Jan. 29, 1952. Class 26.

557,680. Men's Outer Shirts Known in the Trade as Dress Shirts or Negligee Shirts. The Manhattan Shirt Company, New York, N. Y.
Filed Mar. 17, 1951, Serial No. 611,482. Published Dec. 25, 1951. Class 39.

557,681. Wood Working Machines Consisting of Routing and Boring Machines, Etc. Rockwell Manufacturing Company, Pittsburgh, Pa.
Filed Mar. 19, 1951, Serial No. 611,540. Published Dec. 25, 1951. Class 23.

557,682. Packing for Rods Subjected to Fluid Pressure—Namely, for Valve Operating Stems, Stuffing Boxes, Expansion Joints, Piston Rods, and Operating Rods. Rockwell Manufacturing Company, Pittsburgh, Pa.
Filed Mar. 19, 1951, Serial No. 611,542. Published Jan. 22, 1952. Class 35.

557,683. Fresh Tomatoes. B & M Tomato & Produce Company, St. Louis, Mo.
Filed Mar. 21, 1951, Serial No. 611,595. Published Jan. 22, 1952. Class 46.

557,684. Women's Scarves. Scarves By Vera, Inc., New York, N. Y.
Filed Mar. 21, 1951, Serial No. 611,621. Published Jan. 22, 1952. Class 39.

557,685. Drapery Pleaters. Vance & Co., Not Inc., Chicago, Ill.
Filed Mar. 29, 1951, Serial No. 611,984. Published Jan. 22, 1952. Class 40.

557,686. Cement Filler. The Borden Company, New York, N. Y.
Filed Mar. 30, 1951, Serial No. 611,999. Published Jan. 1, 1952. Class 12.

557,687. Computing Commodity Scales for Weighing Food Commodities and the Like. Globe Slicing Machine Co., Inc., Stamford, Conn.
Filed Mar. 30, 1951, Serial No. 612,013. Published Jan. 22, 1952. Class 26.

557,688. Band Designed To Fit the Contour of the Head and Hold Securely a Scarf or Hood. Elizabeth Swift, Little Silver, N. J.
Filed Mar. 30, 1951, Serial No. 612,044. Published Jan. 22, 1952. Class 40.

557,689. Textile Machinery—Namely, Winding Machines, Spinning Machines, and Twisting Machines. Universal Winding Company, Cranston, R. I.
Filed Mar. 30, 1951, Serial No. 612,045. Published Dec. 4, 1951. Class 23.

557,690. Canned Citrus Food Products for Food Purposes—Namely, Grapefruit and Orange Segments, Grapefruit, Orange, and Tangerine Juices and Blended Juices. Bordo Products Company, Chicago, Ill.
Filed Apr. 2, 1951, Serial No. 612,117. Published Jan. 15, 1952. Class 46.

557,691. Canned Citrus Food Products for Food Purposes—Namely, Grapefruit, Orange, and Blended Juices. Bordo Products Company, Chicago, Ill.
Filed Apr. 2, 1951, Serial No. 612,119. Published Jan. 15, 1952. Class 46.

557,692. Men's Pants, Outer Shirts, Blouses, and Flight Caps. The H. D. Lee Company, Incorporated, Kansas City, Mo.
Filed Apr. 5, 1951, Serial No. 612,265. Published Jan. 22, 1952. Class 39.

557,693. Fresh, Frozen, and Canned Fish. Viking Products, Inc., New York, N. Y.
Filed Apr. 5, 1951, Serial No. 612,287. Published Dec. 11, 1951. Class 46.

557,694. Work-Bench or Table for Power-Actuated Tools. Spicknall, Incorporated, Hannibal, Mo.
Filed Apr. 6, 1951, Serial No. 612,360. Published Jan. 15, 1952. Class 23.

557,695. Work-Bench or Table for Power-Actuated Tools. Spicknall, Incorporated, Hannibal, Mo.
Filed Apr. 6, 1951, Serial No. 612,361. Published Jan. 15, 1952. Class 23.

557,696. Buttons Made of Non-Precious Metal. Shantz Associates Incorporated, Rochester, N. Y.
Filed Apr. 7, 1951, Serial No. 612,377. Published Jan. 22, 1952. Class 40.

557,697. Textile Bags, Paper Lined Textile Bags, and Laminated Textile Bags. Central Bag & Burlap Company, Chicago, Ill.
Filed Apr. 10, 1951, Serial No. 612,441. Published Jan. 22, 1952. Class 2.

557,698. Synthetic Polyester Fibers for Generalized Use in the Industrial Arts. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed Apr. 11, 1951, Serial No. 612,487. Published Jan. 15, 1952. Class 1.

557,699. Plastic Sewing Boxes, Candy Boxes, Parts Boxes, Change Boxes, and Make Up Boxes. Central Plastic Corporation, Leominster, Mass.
Filed Apr. 13, 1951, Serial No. 612,587. Published Jan. 22, 1952. Class 2.

557,700. Garment Bags. Protex Products Company, Inc., New York, N. Y.
Filed Apr. 13, 1951, Serial No. 612,625. Published Jan. 22, 1952. Class 2.

557,701. Foundry Equipment—Namely, Portable Sand Handling, Elevating, and Feeding Conveyors. Newaygo Engineering Co., Newaygo, Mich.
Filed Apr. 14, 1951, Serial No. 612,665. Published Dec. 18, 1951. Class 23.

557,702. Home Permanent Wave Kit Containing Liquid Shampoo, Cold Wave Solution, Neutralizer, Plastic Curlers, and End Papers. Holmes Cosmetics, Inc., Baltimore, Md.
Filed Apr. 16, 1951, Serial No. 612,692. Published Jan. 15, 1952. Class 44.

557,703. Preparations for Killing Weeds and Destroying Vermin, Insecticides, Fungicides, Sterilizing Preparations, Seed Disinfectants, and Seed Preserving Substances. Geigy Company, Inc., New York, N. Y.
Filed Apr. 17, 1951, Serial No. 612,737. Published Jan. 22, 1952. Class 6.

557,704. Electrical Stoves, Electric Vacuum Cleaners, Electric Portable and Cabinet Irons, Electric Fans, Electric Waffle Grills, Electric Sandwich Grills, Electric Toasters, Electric Hair Dryers, Electric Fire Logs, Electric Blankets, and Electric Mixers, Electric Irons, Electric Percolators, Electric Roasters, Electric Waffle Irons, Electric Heating Pads. Affiliated Retailers, Inc., New York, N. Y.
Filed Apr. 20, 1951, Serial No. 612,885. Published Jan. 22, 1952. Class 21.

557,705. Paper Napkins. Marathon Corporation, Rothschild, Wis.
Filed Apr. 23, 1951, Serial No. 613,013. Published Jan. 15, 1952. Class 37.

557,706. Dressed Poultry and Fresh Eggs. J. T. Russell & Son Produce Company, Tulsa, Okla.
Filed Apr. 23, 1951, Serial No. 613,025. Published Jan. 22, 1952. Class 46.

557,707. Plate Scrapers and Typewriter Twirler Rings. The Sun Rubber Company, Barberton, Ohio.
Filed Apr. 24, 1951, Serial No. 613,094. Published Dec. 18, 1951. Class 23.

557,708. Men's and Boys' Outer Shirts and Underwear. Cluett, Peabody & Co., Inc., Troy, N. Y.
Filed Apr. 25, 1951, Serial No. 613,120. Published Jan. 22, 1952. Class 39.

557,709. Ladies' Caps. Alia Kent, New York, N. Y.
Filed Apr. 25, 1951, Serial No. 613,135. Published Jan. 22, 1952. Class 39.

557,710. Sealing Tapes of Laminated Kraft Paper, Generally Provided on One Face With an Adhesive or Gummed Surface. Stocker Manufacturing Company, Netcong, N. J.
Filed May 4, 1951, Serial No. 613,533. Published Jan. 22, 1952. Class 5.

557,711. Wrapping Paper. Stocker Manufacturing Company, Netcong, N. J.
Filed May 4, 1951, Serial No. 613,534. Published Jan. 15, 1952. Class 37.

557,712. Wrapping Paper. Stocker Manufacturing Company, Netcong, N. J.
Filed May 4, 1951, Serial No. 613,537. Published Jan. 15, 1952. Class 37.

557,713. Photographic Album Covers, Binding Clips, and Acetate Shields to Facilitate the Application of the Clips to the Albums. Paul J. Mosberg, doing business under the name Metropolitan Photo Co., Seattle, Wash.
Filed May 7, 1951, Serial No. 613,601. Published Jan. 15, 1952. Class 37.

557,714. Liquid Rot and Mildew Proofer for Sails, Boat Covers, Yacht Lines, Deck Chairs, Awnings, and Other Materials. Barfair Laboratories, Inc., City Island, N. Y.
Filed May 9, 1951, Serial No. 613,666. Published Dec. 25, 1951. Class 6.

557,715. Men's Dress and Negligee Shirts. The Manhattan Shirt Company, New York, N. Y.
Filed May 9, 1951, Serial No. 613,673. Published Jan. 22, 1952. Class 39.

557,716. Insecticide. Shell Chemical Corporation, New York, N. Y.
Filed May 15, 1951, Serial No. 613,884. Published Jan. 22, 1952. Class 6.

557,717. Insecticides. Commercial Solvents Corporation, New York, N. Y.
Filed May 17, 1951, Serial No. 613,974. Published Jan. 22, 1952. Class 6.

557,718. Cameras. Ercona Camera Corporation, New York, N. Y.
Filed May 17, 1951, Serial No. 613,979. Published Jan. 15, 1952. Class 26.

557,719. Cameras. Ercona Camera Corporation, New York, N. Y.
Filed May 17, 1951, Serial No. 613,981. Published Jan. 15, 1952. Class 26.

557,720. Motion-Picture Cameras and Projectors. Ercona Camera Corporation, New York, N. Y.
Filed May 17, 1951, Serial No. 613,982. Published Jan. 15, 1952. Class 26.

557,721. Fresh Vegetables. Resetar Produce Company, Watsonville, Calif.
Filed May 19, 1951, Serial No. 614,097. Published Jan. 22, 1952. Class 46.

557,722. Herbicides—Namely, Weed Killer Liquid, Etc. Sears, Roebuck and Co., Chicago, Ill.
Filed May 19, 1951, Serial No. 614,099. Published Jan. 8, 1952. Class 6.

557,723. Dyestuffs. Watson-Park Company, Ballardvale, Mass.
Filed May 23, 1951, Serial No. 614,275. Published Jan. 22, 1952. Class 6.

557,724. Wetting and Penetrating Agent and Dyeing Assistant for Textiles, Leather, and Plastics. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed May 28, 1951, Serial No. 614,429. Published Jan. 22, 1952. Class 6.

557,725. Drive Chains and Conveyor Chains. Link-Belt Company, Chicago, Ill.
Filed May 28, 1951, Serial No. 614,443. Published Jan. 8, 1952. Class 23.

557,726. Drive Chains and Conveyor Chains. Link-Belt Company, Chicago, Ill.
Filed May 28, 1951, Serial No. 614,446. Published Jan. 8, 1952. Class 23.

557,727. Economic Poisons in the Nature of an Insecticide for Fumigating Grains. Thomas Grain Fumigant Co., Inc., Kansas City, Mo.
Filed May 28, 1951, Serial No. 614,470. Published Jan. 22, 1952. Class 6.

557,728. Testing Devices for Vehicle Wheels—Namely, Gauges for Checking and Reading Wheel Caster, Camber, and Degree of Turning Radius. Judson Engineering Corporation, Laconia and Franklin, N. H.
Filed May 25, 1951, Serial No. 614,477. Published Dec. 11, 1951. Class 26.

557,729. Spectacles With Optical Prisms. Visual Research Incorporated, Boston, Mass.
Filed May 31, 1951, Serial No. 614,390. Published Dec. 11, 1951. Class 26.

557,730. Plates Made of Paper or Pulp. The Diamond Match Company, New York, N. Y.
Filed June 7, 1951, Serial No. 614,873. Published Jan. 8, 1952. Class 2.

557,731. Plastic Slide Fasteners. Flexigrip, Inc., New York, N. Y.
Filed June 19, 1951, Serial No. 615,375. Published Jan. 22, 1952. Class 13.

557,732. Tankage and Fertilizer. E. Rauh & Sons Fertilizer Co., Indianapolis, Ind.
Filed June 19, 1951, Serial No. 615,410. Published Jan. 22, 1952. Class 10.

557,733. Domestic and Industrial Tank Type Water Softeners and Filters Sold as Units; Etc. Stover Water Softener Company, St. Charles, Ill.
Filed June 27, 1951, Serial No. 615,803. Published Jan. 22, 1952. Class 31.

557,734. Silos, Corn Cribs, and Grain Bins. Clayton & Lambert Manufacturing Company, Louisville, Ky.
Filed June 29, 1951, Serial No. 615,881. Published Jan. 22, 1952. Class 2.

557,735. Buckets, Bins, and Hoppers for the Transportation and Storage of Concrete and Concrete Constituents. The C. S. Johnson Company, Champaign, Ill.
Filed June 30, 1951, Serial No. 615,933. Published Jan. 22, 1952. Class 2.

557,736. Chemical Compound Used To Allay Dust at Racetracks, Ball Parks, Etc. The Johnson-March Corporation, Philadelphia, Pa.
Filed July 5, 1951, Serial No. 616,103. Published Jan. 22, 1952. Class 6.

557,737. Sectional Cascade Coolers. General Ceramics and Steatite Corp., Keasbey, N. J.
Filed July 6, 1951, Serial No. 616,168. Published Jan. 8, 1952. Class 31.

557,738. Piano Accordions. Maxwell Meyers, Inc., San Antonio, Tex.
Filed July 21, 1951, Serial No. 616,770. Published Jan. 22, 1952. Class 36.

557,739. Wire Nails and Brads. The American Steel and Wire Company of New Jersey, Cleveland, Ohio, now by merger, United States Steel Company, a corporation of New Jersey.
Filed July 23, 1951, Serial No. 616,790. Published Jan. 22, 1952. Class 13.

557,740. Plumbing Traps. The M. S. Little Manufacturing Company, Hartford, Conn.
Filed July 28, 1951, Serial No. 617,088. Published Jan. 22, 1952. Class 13.

557,741. Toilet Seats. American Plastic Products Co., Detroit, Mich.
Filed July 31, 1951, Serial No. 617,139. Published Jan. 22, 1952. Class 13.

557,742. Curtain Rods. Moriarty Manufacturing Co., Kenosha, Wis.
Filed July 31, 1951, Serial No. 617,156. Published Jan. 22, 1952. Class 13.

557,743. Hooks for Displaying Hardware Items. Minnesota Retail Hardware Association, Minneapolis, Minn.
Filed Aug. 1, 1951, Serial No. 617,202. Published Jan. 22, 1952. Class 13.

557,744. Staples for Stapling Machines. The Bates Manufacturing Company, West Orange, N. J.
Filed Aug. 3, 1951, Serial No. 617,274. Published Jan. 22, 1952. Class 13.

557,745. Steam Traps. Yarnall-Waring Company, Philadelphia, Pa.
Filed Aug. 8, 1951, Serial No. 617,468. Published Jan. 29, 1952. Class 13.

557,746. Curtain and Upholstery Fabrics of Cotton, Wool, Silk, and Synthetic Fibers and of Plastic Yarn. Knoll Associates, Inc., New York, N. Y.
Filed Aug. 9, 1951, Serial No. 617,503. Published Jan. 15, 1952. Class 42.

557,747. Woolen Fabrics in the Piece. Pacific Mills, Boston, Mass., and New York, N. Y.
Filed Aug. 29, 1951, Serial No. 618,212. Published Jan. 29, 1952. Class 42.

557,748. Electric Hoists. Hyman Ledeen, doing business as Ledeen Manufacturing Co., Los Angeles, Calif.
Filed Aug. 30, 1951, Serial No. 618,237. Published Jan. 15, 1952. Class 21.

557,749. Electro-Bleed Machines (for Killing Poultry). Barker Poultry Equipment Co., Ottumwa, Iowa.
Filed Sept. 8, 1951, Serial No. 618,529. Published Jan. 22, 1952. Class 21.

557,750. Radio Receiving Sets, Television Receiving Sets, Automatic Phonographs, and Combinations of Any of Them. Garod Radio Corporation, New York, N. Y.
Filed Sept. 10, 1951, Serial No. 618,573. Published Jan. 22, 1952. Class 21.

557,751. Cameras and Camera Lenses. E. Leitz, Inc., New York, N. Y.
Filed Oct. 11, 1951, Serial No. 619,887. Published Dec. 25, 1951. Class 26.

Service Marks

557,752. Promoting Sales in Restaurants and Cafes by Placing Menus Bearing Advertisements of Such Establishments in Cooperating Restaurants and Cafes Located Along the Highways of the United States and Canada. Donald R. Kirby, doing business as International Service Association, Champaign, Ill.
Filed Sept. 2, 1948, Serial No. 564,574. Published Jan. 22, 1952. Class 101.

557,753. Interior Decorating Services. Sears, Roebuck and Co., Chicago, Ill.
Filed Feb. 2, 1949, Serial No. 573,208. Published Jan. 22, 1952. Class 103.

557,754. Preparation of Advertising Pamphlets and Circulars. Automotive Advertisers Council, New Castle, Ind.
Filed Oct. 19, 1949, Serial No. 586,513. Published Jan. 22, 1952. Class 101.

557,755. Printing Services—Namely, Job Printing and the Design, Layout, and Writing of Copy for Printed Matter. Thomsen-Ellis-Hutton Company, Baltimore, Md.
Filed May 3, 1950, Serial No. 596,816. Published Jan. 22, 1952. Class 101.

557,756. Maintenance and Repair of Dishwashing and Sterilising Equipment. Auto Chlor System, Inc., Memphis, Tenn.
Filed June 6, 1950, Serial No. 598,626. Published Jan. 22, 1952. Class 103.

557,757. Arranging and Conducting Travel Tours and Arranging Hotel Accommodations for Tourists. Happiness Tours, Chicago, Ill.
Filed Oct. 10, 1950, Serial No. 604,694. Published Jan. 22, 1952. Class 105.

557,758. Arranging and Conducting Travel Tours and Arranging Hotel Accommodations for Tourists. Happiness Tours, doing business under the name and style of J. Stuart Rotchford Travel Service, Chicago, Ill.
Filed Oct. 10, 1950, Serial No. 604,705. Published Jan. 22, 1952. Class 105.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

557,759. (Class 51. Cosmetics and Toilet Preparations.) Bienaime, Inc., New York, N. Y., assignee of Societe Anonyme, Bienaime. Original filed, act of 1946, Principal Register, Jan. 15, 1948; amended to application, Supplemental Register, Feb. 23, 1951, Serial No. 547,163.

Vermeil

For Perfumes, Face Creams, Rouge, Skin Lotion, Cologne and Brilliantine.
Claims use since 1937.

557,760. (Class 39. Clothing.) The La Resista Corset Company, Bridgeport, Conn. Original filed, act of 1946, Principal Register, Feb. 25, 1948; amended to application, Supplemental Register, May 18, 1949, Serial No. 550,531.

ELASTIC BONING

For Ladies' Corsets, Corselets, Girdles, Panty Girdles, Combination Foundation Undergarments and Brassières.
Claims use since Jan. 15, 1948.

557,761. (Class 46. Foods and Ingredients of Foods.) Riverside Citrus Association, Riverside, Calif. Original filed, act of 1946, Principal Register, Apr. 12, 1948; amended to application, Supplemental Register, Jan. 20, 1950, Serial No. 554,416.

XTRA

FINE

Applicant claims ownership of Registration No. 340,360.
For Fresh Citrus Fruits.
Claims use since Sept. 17, 1935.

557,762. (Class 46. Foods and Ingredients of Foods.) Riverside Citrus Association, Riverside, Calif. Original filed, act of 1946, Principal Register, Apr. 12, 1948; amended to application, Supplemental Register, Jan. 20, 1950, Serial No. 554,417.

VERIFINE

Applicant claims ownership of Registration No. 362,085.
For Fresh Citrus Fruits.
Claims use since Sept. 15, 1937.

557,763. (Class 34. Heating, Lighting, and Ventilating Apparatus.) Bastian-Morley Co., Inc., La Porte, Ind. Original filed, act of 1946, Principal Register, Apr. 17, 1948; amended to application, Supplemental Register, Mar. 15, 1951, Serial No. 554,853.

CRANE-LINE
—the Original PLUMBER-LINE

For Water Heaters and Gas Fire Boilers.
Claims use since May 22, 1947.

557,764. (Class 46. Foods and Ingredients of Foods.) National Syrup Products Company, Chicago, Ill. Original filed, act of 1946, Principal Register, July 14, 1948; amended to application, Supplemental Register, Feb. 14, 1950, Serial No. 561,330.

REDI-ICING

The word "Icing" is disclaimed.
For Icings for Cake, Doughnuts, and the Like.
Claims use since June 4, 1948.

557,765. (Class 51. Cosmetics and Toilet Preparations.) Societe Lancôme, S. A., Paris, France. Original filed, act of 1946, Principal Register, Mar. 30, 1949; amended to application, Supplemental Register, Jan. 23, 1952, Serial No. 577,010.

EAU DE SENTEUR

DE LANCÔME

Applicant claims ownership of French Registration No. 385,827/430,035, dated May 10, 1948.
For Eau de Cologne, Toilet Water, Lotions, and Perfumes.
Claims use since May 10, 1948 in France and since May 10, 1948 in commerce among foreign nations and the United States.

557,766. (Class 4. Abrasives and Polishing Materials.) Hanson-Van Winkle-Munning Company, Matawan, N. J., and elsewhere. Original filed, act of 1946, Principal Register, Apr. 28, 1949; amended to application, Supplemental Register, June 13, 1951, Serial No. 577,884.

SISALWEEV

For Polishing, Brushing, and Buffing Wheels.
Claims use since Mar. 4, 1949.

557,767. (Class 39. Clothing.) The Vanta Company, Inc., Pawtucket, R. I. Original filed, act of 1946, Principal Register, June 29, 1949; amended to application, Supplemental Register, May 17, 1951, Serial No. 581,302.

SMIRNOFF

For Men's and Boys' Underwear.
Claims use since June 8, 1949.

557,768. (Class 46. Foods and Ingredients of Foods.) Ste. Pierre Smirnoff Fls, Inc., Hartford, Conn. Original filed, act of 1946, Principal Register, Feb. 1, 1950; amended to application, Supplemental Register, Jan. 31, 1952, Serial No. 591,810.

GYM-EASE

For Borscht, Caviar.
Claims use since Jan. 4, 1950.

557,769. (Class 12. Construction Materials.) Parker-Hughes Corporation, Philadelphia, Pa. Original filed, act of 1946, Principal Register, May 10, 1950; amended to application, Supplemental Register, June 28, 1951, Serial No. 597,225.

PARKER
TRAV-A-CORNICE

For Complete Cornice for Retaining Transversely Movable Curtains.
Claims use since Apr. 20, 1950.

557,770. (Class 46. Foods and Ingredients of Foods.) Baffin Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 12, 1950; amended to application, Supplemental Register, Jan. 9, 1952, Serial No. 597,314.

Baffin

For Canned Tuna Fish, Salmon, Shrimps, Lobsters, Lobster Tails, Crabmeat, Crawfish, Shad Roe, Sardines; Canned Fruits—Namely, Mandarin Oranges, Figs, and Pineapple; Canned Vegetables—Namely, Asparagus and Green Peas; Canned Almonds and Pecans; Coffee, Tea, and Cocoa.
Claims use since Mar. 10, 1950.

557,771. (Class 46. Foods and Ingredients of Foods.) Ozark Packing Company, Inc., Ozark, Ark. Original filed, act of 1946, Principal Register, June 14, 1950; amended to application, Supplemental Register, Oct. 16, 1951, Serial No. 599,110.



The lines in the drawing are lines actually appearing in the mark and not indicative of color. The word "Brand" is disclaimed. Applicant claims ownership of Registration No. 536,874.
For Canned Vegetables—Namely, Spinach, Kale, Blackeye Peas, Tomatoes, Green Beans, Turnip Greens, Mustard Greens, Irish Potatoes, Sweet Potatoes.
Claims use since February 1942.

557,772. (Class 28. Jewelry and Precious-Metal Ware.) National Silver Company, New York, N. Y. Original filed, act of 1946, Principal Register, June 21, 1950; amended to application, Supplemental Register, Jan. 19, 1952, Serial No. 599,525.

TRACERY

For Sterling Silver and Silverplated Flatware.
Claims use since Mar. 3, 1950.

557,773. (Class 39. Clothing.) Srader Sportswear, Dallas, Tex. Original filed, act of 1946, Principal Register, June 29, 1950; amended to application, Supplemental Register, Aug. 9, 1951, Serial No. 599,987.

Ezee-Alter

For Children's, Misses', and Ladies' Skirts, Shorts, and Slacks.
Claims use since Apr. 8, 1950.

557,774. (Class 12. Construction Materials.) Sealtite Insulation Manufacturing Corporation, Waukesha, Wis. Original filed, act of 1946, Principal Register, July 3, 1950; amended to application, Supplemental Register, Jan. 2, 1952, Serial No. 600,195.

Sealglas

For Insulation Product Made From Fibrous Material Which Is Processed From Minerals and Sold in Bulk and Batt Form for Use in the insulation of Buildings Against Heat and Cold.
Claims use since Jan. 5, 1948.

557,775. (Class 51. Cosmetics and Toilet Preparations.) Jules Montenier, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, Aug. 24, 1950; amended to application, Supplemental Register, Aug. 21, 1951, Serial No. 602,735.

The Deodorant that changed a Nation's Habits

For Body Deodorants.
Claims use since Feb. 21, 1950.

557,776. (Class 39. Clothing.) Hans C. Bick, Inc., Reading, Pa. Original filed, act of 1946, Principal Register, Sept. 2, 1950; amended to application, Supplemental Register, Jan. 11, 1952, Serial No. 603,107.

NYLONIZED

For Women's Nylon Hosiery.
Claims use since Dec. 30, 1949.

557,777. (Class 39. Clothing.) Camp and McInnes, Inc., Reading, Pa. Original filed, act of 1946, Principal Register, Sept. 20, 1950; amended to application, Supplemental Register, Nov. 17, 1951, Serial No. 603,764.

hi-ply

For Hosiery for Men and Women.
Claims use since May 25, 1950.

557,778. (Class 50. Merchandise Not Otherwise Classified.) Hansen's Processes, Inc., Park Ridge, Ill. Original filed, act of 1946, Principal Register, Sept. 27, 1950; amended to application, Supplemental Register, May 23, 1951, Serial No. 604,095.

ROLL-AWAY

For Poultry Nests.
Claims use since Mar. 10, 1950.

557,779. (Class 33. Glassware.) Premo Pharmaceutical Laboratories, Inc., South Hackensack, N. J. Filed Oct. 23, 1950, Serial No. 605,327.

'DRAINAWAY'

For Bottles of Glass Having a Thin Transparent Water-Repellant Film on the Inside Surface and Used for Carrying Aqueous-Vehicle Liquid Pharmaceutical Preparations and Other High-Priced Liquids and Liquid Preparations, the Nature of the Bottles Being Such That Liquids Poured Therefrom, Drain the Bottles Clear.
Claims use since Jan. 10, 1949.

557,780. (Class 21. Electrical Apparatus, Machines, and Supplies.) Edward S. Sommers, doing business under the style name of Demi-Tint Industries, Chicago, Ill. Original filed, act of 1946, Principal Register, Nov. 28, 1950; amended to application, Supplemental Register, Jan. 19, 1952, Serial No. 607,049.



The drawing is lined for gold.
For Television Receivers.
Claims use since August 1946.

557,781. (Class 46. Foods and Ingredients of Foods.) Hillsboro Plantation, Inc., doing business as Hillsboro Plantation, Belle Glade, Fla. Original filed, act of 1946, Principal Register, Dec. 5, 1950; amended to application, Supplemental Register, Feb. 1, 1952, Serial No. 607,291.

HILLSBORO

For Fresh Vegetables.
Claims use since Nov. 15, 1950.

557,782. (Class 50. Merchandise Not Otherwise Classified.) Nova Manufacturing Co., Inc., New York, N. Y. Filed Jan. 9, 1951, Serial No. 608,563.

LOCKTITE

For Rigid-Type Table Pads.
Claims use since Nov. 15, 1929.

557,783. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Hugh Nelson-Columbia Carpet Mills, Inc., Philadelphia, Pa. Original filed, act of 1946, Principal Register, Jan. 25, 1951; amended to application, Supplemental Register, Dec. 13, 1951, Serial No. 609,241.



PREMIUM

The representation of the lady is fanciful. Applicant claims ownership of Registrations Nos. 377,785 and 504,792.
For Textile Rugs and Carpets.
Claims use since Nov. 13, 1950.

557,784. (Class 39. Clothing.) Kiddie Klothes Ko., Baltimore, Md. Filed Mar. 9, 1951, Serial No. 611,097.



Applicant claims ownership of Registration No. 163,846.
For Infants' and Children's Outer-Wear and Apparel—Namely, Hand and Machine Knitted Sweaters, Sacks, Bootees, Caps, Leggings, Bibs, Dresses, Creepers, Wash-Suits, Polo Shirts, Overalls, Sun-Suits, Play Suits, Blouses, Skirts, Snow-Suits and Coats.
Claims use since June 6, 1920.

557,785. (Class 46. Foods and Ingredients of Foods.) Rebecca Baumgarten, doing business as Arcade Tea Bazaar, Providence, R. I. Original filed, act of 1946, Principal Register, Mar. 22, 1951; amended to application, Supplemental Register, Feb. 7, 1952, Serial No. 611,634.

NILGIRI

For Tea.
Claims use since Feb. 2, 1949.

557,786. (Class 50. Merchandise Not Otherwise Classified.) Carl E. Fenton, doing business as Fenton's Feeders, Arcadia, Fla. Original filed, act of 1946, Principal Register, Apr. 5, 1951; amended to application, Supplemental Register, Feb. 8, 1952, Serial No. 612,248.

FENTON'S FEEDERS

For Feeders for Livestock and Poultry.
Claims use since Nov. 17, 1948.

557,787. (Class 12. Construction Materials.) Easterday Paint and Chemical Company, Kenosha, Wis. Filed May 14, 1951, Serial No. 613,839.

VENT-AIRE

For Vent Screens To Be Inserted in a Hole in the Siding of a Wooden House To Preclude the Accumulation of Moisture Within the Walls.
Claims use since November 1949.

557,788. (Class 22. Games, Toys, and Sporting Goods.) The United States Playing Card Company, Cincinnati, Ohio. Filed Aug. 20, 1951, Serial No. 617,895.



The words "Playing Cards" are disclaimed. Applicant claims ownership of Registrations Nos. 49,107, 60,313, and others.
For Playing Cards.
Claims use since 1892.

Collective Mark

557,789. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Embroidery Merchants Association, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 6, 1949; amended to application, Supplemental Register, Nov. 1, 1951, Serial No. 576,686.

CREATORS GUILD

For Embroidered Piece Goods.
Claims use since Mar. 24, 1949.

TRADE-MARK REGISTRATIONS RENEWED

38,458. 1816. Registered June 17, 1902. Firm of M. Hohner, Tossingen, Germany, and New York, N. Y. Re-renewed June 17, 1952, to M. Hohner, Inc., New York, N. Y., a corporation of New York. Mouth-Harmonicas. Class 36.

85,159. NIAGARA. Registered Jan. 30, 1912. National Starch Company. Re-renewed Jan. 30, 1952, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey. Edible Starch. Class 46.

85,289. REPRESENTATION OF RUBBER HEEL LINED FOR RED. Registered Feb. 6, 1912. Revere Rubber Company, Chelsea, Mass. Re-renewed Feb. 6, 1952, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Rubber Heels and Soles of Boots and Shoes. Class 39.

85,408. BLACK DIAMOND. Registered Feb. 20, 1912. Barrett Manufacturing Company. Re-renewed Feb. 20, 1952, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Prepared Natural and Artificial Pitch for Roofing, Waterproofing, Insulating, Etc. Class 12.

85,828. FIRO. Registered Mar. 19, 1912. New York Belting & Packing Co. Ltd., New York, N. Y., and Passaic, N. J. Re-renewed Mar. 19, 1952, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Machinery Packing Composed of Rubber and Rubber Combined With Fibrous and Granular Material. Class 35.

86,148. "KETTLE" AND REPRESENTATION OF KETTLE. Registered Apr. 16, 1912. E. Myers Lye Co. Re-renewed Apr. 16, 1952, to E. Myers Lye Corporation, St. Louis, Mo., a corporation of Missouri. Lye. Class 6.

86,332. GILT EDGE. Registered Apr. 30, 1912. J. E. Rhoads & Sons, Philadelphia, Pa., a firm. Re-renewed Apr. 30, 1952. Flat Leather Belting. Class 35.

86,412. PHILADELPHIA WATCH CASE CO. Registered May 7, 1912. The Keystone Watch Case Company, Philadelphia, Pa. Re-renewed May 7, 1952, to The Riverside Metal Company, Riverside, N. J., a corporation of New Jersey. Watches, Watch-Movements, Watchcases, and Parts Thereof. Class 27.

86,699. "PARROT" AND DRAWING. Registered May 28, 1912. The Cudahy Packing Company. Re-renewed May 28, 1952, to The Cudahy Packing Company, Chicago, Ill., a corporation of Maine. A Metal-Polish. Class 4.

86,819. CHAP STICK. Registered June 4, 1912. John T. Morton. Re-renewed June 4, 1952, to Morton Manufacturing Corporation, Lynchburg, Va., a corporation of Virginia. A Medicinal Preparation for Chapped Skin, Sunburn and Hangnails. Class 18.

86,991. "JACKRABBIT" ETC. AND DRAWING. Registered June 18, 1912. The Hutchinson-Kansas Salt Company, Hutchinson, Kans. Re-renewed June 18, 1952, to Morton Salt Company, Chicago, Ill., a corporation of Illinois. Salt. Class 46.

87,006. "NEW ERA PRESS" ETC. AND DRAWING. Registered June 18, 1912. The Regina Company, Rahway, N. J. Re-renewed June 18, 1952, to New Era Manufacturing Co., Paterson, N. J., a corporation of New Jersey. Printing-Presses. Class 23.

255,864. "THE DIAMOND" ETC. AND DRAWING. Registered Apr. 30, 1929. Kabushiki Kaisha Hirao Sampei Shoten, Tokyo, Japan, a corporation organized under the laws of Japan. Renewed Apr. 30, 1949. Dentifrice. Class 51.

259,601. VITA. Registered Aug. 6, 1929. Dr. Hiltebrandt Zahnfabrik Aktiengesellschaft. Renewed Aug. 6, 1949, to Vita Zahnfabrik H. Rauter o. H. G., Essen, Germany, a corporation organized under the laws of Germany. Artificial Teeth. Class 44.

284,224. "ELIXIR BACARDI" AND DESIGN. Registered June 16, 1931. Compania Ron Bacardi, S. A., Santiago de Cuba, Cuba, a company organized under the laws of the Republic of Cuba. Renewed June 16, 1951. Rum. Class 49.

287,158. SNAPIT. Registered Sept. 15, 1931. Marks Products Co. Inc., Brooklyn, N. Y. Renewed Sept. 15, 1951, to Cable Electric Products, Inc., Providence, R. I., a corporation of Delaware. Electrical Attachment Plugs. Class 21.

287,711. VAPORSEAL. Registered Oct. 6, 1931. The Sharples Specialty Company. Renewed Oct. 6, 1951, to The Sharples Corporation, Philadelphia, Pa., a corporation of Delaware. Centrifugal Machines and Parts Thereof. Class 23.

288,110. CEE-BEE. Registered Oct. 20, 1931. Champion & Barber, Inc., doing business as Cee-Bee Products. Renewed Oct. 20, 1951, to Cee-Bee Chemical Co., Inc., Los Angeles, Calif., a corporation of California. Detergent Cleaning Compounds in Cake, Flake, Paste, Pulverized, and Liquid Form. Class 52.

288,688. MONOGRAM. Registered Nov. 3, 1931. Panther Rubber Manufacturing Company, Stoughton, Mass. Renewed Nov. 3, 1951, to American Biltrite Rubber Co., Inc., Chelsea, Mass., a corporation of Massachusetts. Rubber Heels. Class 39.

289,090. "GASSUP" AND DESIGN. Registered Nov. 17, 1931. Mariano Picardi, Newark, N. J. Renewed Nov. 17, 1951. Digestant, Antacid, and Laxative Compound. Class 18.

289,256. "GOLD MEDAL". Registered Nov. 24, 1931. Gold Medal Folding Furniture Co., Racine, Wis., a corporation of Wisconsin. Renewed Nov. 24, 1951. Couch Hammocks, Gliders, Lawn and Porch Swings, and Lawn Hammocks. Class 32.

290,289. MECCA. Registered Dec. 29, 1931. Max Pollack & Co., Inc., New York, N. Y., a corporation of New York. Renewed Dec. 29, 1951. Sewing Threads. Class 43.

290,381. GULF TOURGIDE. Registered Jan. 5, 1932. Gulf Refining Company, Port Arthur, Tex. Renewed Jan. 5, 1952, to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania. Periodical Publication. Class 38.

290,477. SEVENTEEN. Registered Jan. 5, 1932. Colgate-Palmolive-Peet Company, Chicago, Ill. Renewed Jan. 5, 1952, to Seventeen, Rye, N. Y., a partnership. Toilet Soap. Class 52.

290,522. DUBL-CHECK. Registered Jan. 5, 1932. Hastings Manufacturing Company, Hastings, Mich., a corporation of Michigan. Renewed Jan. 5, 1952. Piston Rings. Class 35.

290,574. MAZZINI. Registered Jan. 12, 1932. Joseph Di Santo, doing business as Di Santo & Company, Duluth, Minn. Renewed Jan. 12, 1952. Nonalcoholic, Maltless, Concentrated Syrups — Namely, Grenadine Syrup, Tamarind Syrup, Etc. Class 45.

290,680. "TECLA" AND DRAWING. Registered Jan. 12, 1932. Max Pollack & Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 12, 1952. Sewing Threads. Class 43.

290,730. SAL' EL TOREADOR. Registered Jan. 12, 1932. The Carey Salt Company, Hutchinson, Kans., a corporation of Kansas. Renewed Jan. 12, 1952. Salt. Class 46.

290,752. SNOWCRETE. Registered Jan. 12, 1932. The Associated Portland Cement Manufacturers, Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Jan. 12, 1952. Portland Cement. Class 12.

290,816. STOUT-FLEX. Registered Jan. 19, 1932. Richards & Brennan Co., Randolph, Mass. Renewed Jan. 19, 1952, to Charles A. Eaton Company, Brockton, Mass., a corporation of Massachusetts. Leather and Fabric Boots and Shoes. Class 39.

291,135. "Z METALS" AND DESIGN. Registered Jan. 26, 1932. Industrial Furnace Corporation, Buffalo, N. Y. Renewed Jan. 26, 1952, to Z-Metals, Incorporated, New York, N. Y., a corporation of New York. Metal Castings—Namely, Malleable Iron Castings, Castings Produced From the Heat Treatment of White Cast Iron, and Other Iron Castings. Class 14.

291,151. MARDAY. Registered Feb. 2, 1932. Hahn Department Stores, Inc., Wilmington, Del. Renewed Feb. 2, 1952, to Allied Stores Corporation, New York, N. Y., a corporation of Delaware. Women's Hand Bags of All Kinds, Including Leather, Imitation Leather, Reptile Skin, Fabric, Straw Bead, Metal, Etc. Class 3.

291,241. ROYALITE. Registered Feb. 2, 1932. United States Rubber Company, New York, N. Y., a corporation of New Jersey. Renewed Feb. 2, 1952. Rubber Flooring Made Principally of Rubber, Vulcanising and Curing Ingredients, and Pigments. Class 12.

291,469. BARDEX. Registered Feb. 9, 1932. The Barrett Company. Renewed Feb. 9, 1952, to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York. Compound Used in the Processing and Treatment of Rubber, for Example, as a Dispersing Agent and/or Antioxidant. Class 6.

291,652. APPAREL°ARTS. Registered Feb. 23, 1932. Apparel Arts Publications, Inc. Renewed Feb. 23, 1952, to Esquire, Inc., Chicago, Ill., a corporation of Delaware. Publication Issued Quarterly. Class 38.

291,751. "GOLD CERTIFICATE" ETC. AND DRAWING. Registered Feb. 23, 1932. General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Renewed Feb. 23, 1952. Wheat Flour. Class 46.

291,884. "TOP NOTCH BUDDY" AND DESIGN. Registered Feb. 23, 1932. The Beacon Falls Rubber Shoe Company, Beacon Falls, Conn. Renewed Feb. 23, 1952, to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Waterproof and Canvas Rubber-Soled Footwear—Namely, Rubber Boots, Etc. Class 39.

291,914. DRYMOR. Registered Feb. 23, 1932. Wheeler Paper Corporation, Albany, N. Y., a corporation of New York. Renewed Feb. 23, 1952. Paper Towels. Class 37.

292,857. "WALDORF" AND BACKGROUND DESIGN. Registered Mar. 29, 1932. Scott Paper Company, Chester, Pa., a corporation of Pennsylvania. Renewed Mar. 29, 1952. Tissue, Creped, and Absorbent Papers. Class 37.

292,957. ROYAL. Registered Mar. 29, 1932. United States Rubber Company, New York, N. Y., a corporation of New Jersey. Renewed Mar. 29, 1952. Rubber Covered Rollers Used in Newspaper, Off-Set, and Direct Printing Presses for Conveying Printing Ink From the Ink Fountain to the Final Printing Form Through a Series of Intermediate Rollers. Class 23.

293,042. CEE WEE. Registered Apr. 5, 1932. Vanity Fair Silk Mills. Renewed Apr. 5, 1952, to Vanity Fair Mills, Inc., Reading, Pa., a corporation of Pennsylvania. Bandeaux, Bloomers, Panties, Etc. Class 39.

293,055. BON AMI DE LUXE. Registered Apr. 5, 1932. The Bon Ami Company, New York, N. Y., a corporation of Delaware. Renewed Apr. 5, 1952. Cleaning and Polishing Powder for Household Use and for Cleaning the Hands. Class 4.

293,354. RED RING. Registered Apr. 19, 1932. Comstock Canneries, Inc. Renewed Apr. 19, 1952, to Comstock Canning Corporation, Newark, N. Y., a corporation of New York. Canned Fruits, Canned Vegetables, and Canned Berries. Class 46.

293,540. WHYMSY'S. Registered Apr. 26, 1932. Julius Kayser & Co., New York, N. Y., a corporation of New York. Renewed Apr. 26, 1952. Ladies' Underwear. Class 39.

293,608. CUTRILIN. Registered May 3, 1932. A. Klipstein & Co., Inc. Renewed May 3, 1952, to American Cyanamid Company, New York, N. Y., a corporation of Maine. Bacterial Culture Used in Leather Bating Preparations. Class 6.

293,726. "STROOCK TULEMONDE" ETC. Registered May 3, 1932. S. Stroock & Co. Inc., New York, N. Y., a corporation of New York. Renewed May 3, 1952. Camel Hair and Wool Cloth in the Piece. Class 42.

293,766. "HEIDE" AND DIAMOND-SHAPED DESIGN. Registered May 3, 1932. Henry Heide, Incorporated, New York, N. Y., a corporation of New York. Renewed May 3, 1952. Candies of All Kinds, Candied Nut Products — Namely, Chocolate-Covered Nuts, Chocolate Roasted Almonds, Chocolate, and Icing. Class 46.

293,918. "HARDWICK" AND DESIGN. Registered May 10, 1932. Hahn Department Stores, Inc., Wilmington, Del. Renewed May 10, 1952, to Allied Stores Corporation, New York, N. Y., a corporation of Delaware. Men's and Boys' Clothing and Accessories—Namely, Men's and Boys' Suits, Etc. Class 39.

294,039. "INA" AND DESIGN. Registered May 17, 1932. Hahn Department Stores, Inc., Wilmington, Del. Renewed May 17, 1952, to Allied Stores Corporation, New York, N. Y., a corporation of Delaware. Women's Ready-To-Wear and Accessories—Namely, Coats of Fabric, Etc. Class 39.

294,396. "THE ORANGE DISCOURSE" AND DRAWING LINED FOR ORANGE. Registered May 24, 1932. Payne Coal Company, Inc. Renewed May 24, 1952, to Payne Coal Sales Company, Inc., Wilkes-Barre, Pa., a corporation of Pennsylvania. Monthly Publication. Class 38.

294,467. "GLISTO" AND DESIGN. Registered May 31, 1932. Mufti Company, Cincinnati, Ohio. Renewed May 31, 1952, to Plough, Inc., Memphis, Tenn., a corporation of Delaware. Specially Treated Paper Towel Which Is Used for Polishing Glass and the Like. Class 4.

294,722. ARIEL. Registered June 7, 1932. Beacon Manufacturing Company, New Bedford, Mass. Renewed June 7, 1952, to Beacon Manufacturing Company, Swannanoa, N. C., a corporation of Massachusetts. Blankets Made of Cotton or Cotton and Wool. Class 42.

294,771. "SORBEX" AND DESIGN. Registered June 7, 1932. Atkins & Durbrow, Inc., New York, N. Y., a corporation of New York. Renewed June 7, 1952. Moss Peat Used for Horticultural Purposes. Class 1.

294,972. SECURITY. Registered June 14, 1932. The Newall Manufacturing Company, Chicago, Ill., a corporation of Illinois. Renewed June 14, 1952. Mainsprings for Watches. Class 27.

295,043. MAJESTIC. Registered June 14, 1932. Majestic Household Utilities Corporation, Chicago, Ill., assignor to Grigsby-Grunow Company. Renewed June 14, 1952, to Garod Radio Corporation, New York, N. Y., a corporation of New York. Electric Vacuum Cleaners and Parts Thereof. Class 21.

295,114. QUEEN'S LACE. Registered June 21, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed June 21, 1952. Hosiery. Class 39.

295,138. "RUN PRUF" AND REPRESENTATION OF TORTOISE. Registered June 21, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed June 21, 1952. Hosiery. Class 39.

295,140. "NORUN" AND REPRESENTATION OF TORTOISE. Registered June 21, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed June 21, 1952. Hosiery. Class 39.

295,188. "PROM" ETC. AND DRAWING. Registered June 21, 1932. Lenwells, Inc., Chicago, Ill. Renewed June 21, 1952, to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware. Shampoo. Class 52.

295,231. "PINEOLEUM" AND DRAWING. Registered June 21, 1932. The Pineoleum Company, New York, N. Y. Renewed June 21, 1952, to Baybank Drug Co., Inc., Richmond Hill, L. I., N. Y., a corporation of New York. Nebulizing or Atomizing Appliances for Dental, Medical, and Surgical Use. Class 44.

295,234. TONIKUM "ROCHE". Registered June 21, 1932. Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey. Renewed June 21, 1952. General Tonic. Class 18.

295,276. ETERNIT. Registered June 28, 1932. The Ruberoid Co., New York, N. Y., and Bound Brook, N. J., a corporation of New Jersey. Renewed June 28, 1952. Flexible Prepared Roofing Composed of Felt Impregnated and Coated With Bituminous Compositions, in Strip, Shingle, and Roll Form. Class 12.

296,309. OLYMPIC. Registered Aug. 2, 1932. H. R. Mallinson & Co., Inc. Renewed Aug. 2, 1952, to National Mallinson Fabrics Corporation, New York, N. Y., a corporation of Delaware. Silk Piece Goods. Class 42.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

444,485. WASTE KING PULVERATOR. Registered May 1, 1951. Given Manufacturing Company, Los Angeles, Calif. Machines for Grinding Up Garbage. Class 23. Corrected as follows: In the certificate, lines 2 and 14; in the heading to the statement; in line 1 of the statement; and in the printed signature, "Company" should be *Co.*

534,909. EXQUISITE FOOTWEAR BY MARY JANE. Registered Dec. 19, 1950. John Irving Shoe Corporation, Boston, Mass. Women's Shoes. Class 39. Corrected as follows: In the statement, column 2, line 6, for the registration number "325,401" read *325,407.*

549,766. LITTLE KING PULVERATOR. Registered Oct. 23, 1951. Given Manufacturing Company, Los Angeles, Calif. Electric Garbage Disposal Units Attachable to Plumbing Systems. Class 21. Corrected as follows: In the certificate, lines 2 and 13; in the heading to the statement; in line 1 of the statement; and in the printed signature, "Company" should be *Co.*

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 127,109. Registered Oct. 21, 1919. Pelton Steel Company, Milwaukee, Wis. Republished by The Pelton Steel Casting Company, Milwaukee, Wis., a corporation of Wisconsin.



For Steel Castings.
Claims use since Aug. 17, 1918.

Reg. No. 377,526. Registered May 7, 1940. Silverstein & Pinsof, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.



For Zinc Base Slushing Alloys, Consisting of Zinc and Aluminum Alloys and Used in the Manufacture of Toys and Automobile Parts, Lead Base Slushings Alloys, Consisting of Lead and Antimony Alloys, Used in the Manufacture of Toys and Automobile Parts, Die Casting Alloys, Electrotype, Linotype, Monotype, Stereotype, and Solder Alloys.
Claims use since Jan. 1, 1935.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 354,503. Registered Feb. 15, 1938. Benn Windt, New York, N. Y. Republished by Cocilana, Inc., Brooklyn, N. Y., a corporation of New York.



The words "Cocilana Cough" are disclaimed apart from the mark as shown.
For Cough Bon Bons, Cough Confections, and Cough Syrups.
Claims use since Mar. 1, 1935.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 300,399. Registered Jan. 17, 1933. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.



For Internal Combustion Engines, Pumps, Pumping Plants, Windmills, and Feed Grinders.
Claims use since about May 18, 1920.

CLASS 29

BROOMS, BRUSHES, AND DUSTERS

Reg. No. 154,178. Registered Apr. 4, 1922. Western Bottle Manufacturing Company, Chicago, Ill. Republished by Weco Products Company, Chicago, Ill., a corporation of Illinois.

ORO

For Toothbrushes.
Claims use since July 15, 1921.

CLASS 32

FURNITURE AND UPHOLSTERY

Reg. No. 373,722. Registered Dec. 19, 1939. Midwest Fibre Company, Sheboygan, Wis., a corporation of Wisconsin. Republished by registrant.

Rockin-Eez

All the wording except "Rockin-Eez" and "Skill-Craft" is disclaimed apart from the mark as shown.
For Living Room Furniture.
Claims use since Sept. 20, 1938.

Reg. No. 396,998. Registered Aug. 11, 1942. Midwest Fibre Company, doing business as Midwest Furniture Company, Sheboygan, Wis., a corporation of Wisconsin. Republished by registrant.

Restin-Eez

For Rocking Chairs.
Claims use since July 1940.

CLASS 38

PRINTS AND PUBLICATIONS

Reg. No. 193,730. Registered Jan. 6, 1925. Ahrens Publishing Company, Inc., New York, N. Y. Republished by Electrical Information Publications, Inc., Madison, Wis., a corporation of Wisconsin.

FOOD SERVICE

For Monthly Publications.
Claims use since July 1, 1923.

Reg. No. 290,861. Registered Jan. 19, 1932. Fleet Reserve Association, Washington, D. C., a corporation of Pennsylvania. Republished by registrant.

NAVAL AFFAIRS

For Periodicals.
Claims use since Oct. 1, 1931.

CLASS 39

CLOTHING

Reg. No. 307,992. Registered Nov. 14, 1933. Blair Corset Company, Inc., Chicago, Ill., a corporation of Illinois. Republished by registrant.

fashion hour

For Corsets, Girdles, Brassières and Bandeaux and Various Combinations Thereof; Garter Belts, Women's Underwear and Lingerie Consisting of Nightgowns, Bloomers, and Teddies.
Claims use since Dec. 1, 1932.

Reg. No. 314,039. Registered June 19, 1934. John Wesendonck, New York, N. Y. Republished by J. M. McDonald Co., Hastings, Nebr., a corporation of Delaware.

Silhouette

For Hosiery.
Claims use since 1910.

Reg. No. 373,319. Registered Dec. 5, 1939. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.

babette

For Dresses, Frocks, Suits, Coats, Cloaks, and Wraps, for the Use of Women, Misses, and Children.
Claims use since about Feb. 15, 1938.

Reg. No. 429,794. Registered May 20, 1947. The Ellis Coat Co., Inc., Manchester, Conn. Republished by Britain-Hall, Inc., New Britain, Conn., a corporation of Connecticut.

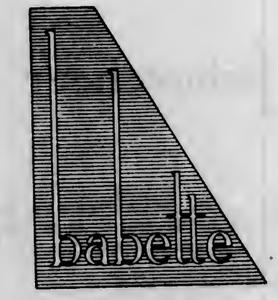
Britainshire

For Women's and Misses' Coats, Suits, and Raincoats.
Claims use since 1935.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Reg. No. 350,200. Registered Sept. 21, 1937. Kaufmann Department Stores, Inc., Pittsburgh, Pa. Republished by The May Department Stores Company, St. Louis, Mo., a corporation of New York.



For Sanitary Napkins.
Claims use since about Mar. 2, 1937.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Reg. No. 309,865. Registered Feb. 6, 1934. Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y. Republished by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn., a corporation of Connecticut.



The words "Purveyors to the Imperial Russian Court Since 1886" and "Moscow" are disclaimed apart from the mark as shown.
For Non-Alcoholic, Maltless Fruit Juices Sold as Soft Drinks.
Claims use since on or about Sept. 22, 1933.

Reg. No. 337,895. Registered June 21, 1938. Charles A. Meyerowich, Stapleton, N. Y. Republished by registrant.

WISE-UP

For Nonalcoholic, Noncereal, Maltless Beverages, Sold as Soft Drinks and Sirups and Extracts for Making the Same.
Claims use since Sept. 1, 1936.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 236,602. Registered Dec. 20, 1927. Greco Canning Company, Inc., San Jose, Calif. Republished by Mission Valley Canning Co., Inc., San Jose, Calif., a corporation of California.

Integrity

For Canned Fruits.
Claims use since May 1, 1926.

Reg. No. 291,197. Registered Feb. 2, 1932. Greco Canning Co., Inc., San Jose, Calif. Republished by Mission Valley Canning Co., Inc., San Jose, Calif., a corporation of California.

"OUR *Integrity* IS IN THE CAN"

For Canned Fruits, Canned Vegetables.
Claims use since June 24, 1931.

Reg. No. 291,904. Registered Feb. 23, 1932. California Fruit Exchange, Sacramento, Calif., a corporation of California. Republished by registrant.



The drawing is lined for blue.
For Fresh Apples, Apricots, Cherries, Peaches, Plums, Pears, Grapes, Persimmons, Pomegranates, Figs, Quinces, Nectarines, Olives, and Prunes.
Claims use since May 1, 1901.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 327,645. Registered Sept. 3, 1935. Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y. Republished by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn., a corporation of Connecticut.

VODKA de CZAR

The word "Vodka" is disclaimed apart from the mark as shown.
For Vodka.
Claims use since on or about May 23, 1934.

Reg. No. 328,594. Registered Oct. 1, 1935. Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y. Republished by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn., a corporation of Connecticut.



The words "Purveyors to the Imperial Russian Court Since 1886" and "Moscow" are disclaimed apart from the mark as shown.
For Vodka.
Claims use since on or about Apr. 14, 1934.

Reg. No. 330,899. Registered Dec. 17, 1935. Ste Pierre Smirnoff Fls, Incorporated, New York, N. Y. Republished by Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn., a corporation of Connecticut.



The words "Purveyors to the Imperial Crown Court Since 1886" are disclaimed apart from the mark as shown.
For Vodka.
Claims use since on or about Mar. 17, 1934.

Reg. No. 394,058. Registered Mar. 17, 1942. Ste. Pierre Smirnoff Fls., Incorporated, Hartford, Conn., a corporation of Connecticut. Republished by registrant.

SMIRNOFFKA

For Distilled Alcoholic Liquor, Being a Russian Type Aquavit.
Claims use since Aug. 28, 1941.

PLANT PATENTS

GRANTED APRIL 15, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,082

IVY PLANT

Keith E. Williams and Esther M. Williams, Springfield, Ohio

Application August 18, 1950, Serial No. 180,138

1 Claim. (Cl. 47—59)

A new and distinct variety of ivy plant, substantially as shown and described, characterized particularly by a five pointed leaf with fluted, undulated edges, deep cut, with the points relatively sharp and the color comprising a greenish ivory white border, the light green leaf design substantially uniformly spaced with the inner edge of said border and occupying the center of the leaf and a dark green leaf design superimposed on the light green area, the dark green design and the greenish white border portions having a higher degree of reflectivity than the light green leaf design, said leaves being arranged on a single stem at intervals alternately on opposite sides of the stem.

PATENTS

GRANTED APRIL 15, 1952

2,592,523
REMOVAL OF HYDROGEN SULFIDE AND MERCAPTANS FROM GASES OR LIQUIDS SUCH AS PETROLEUM OR PETROLEUM FRACTIONS

George W. Ayers, Chicago, Marcellus J. Geerts, Evanston, and William A. Krewer, Skokie, Ill., assignors to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

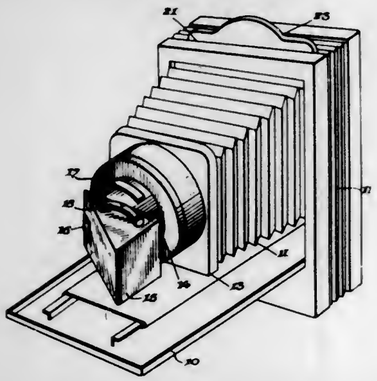
No Drawing. Application August 21, 1948, Serial No. 45,584
10 Claims. (Cl. 196—24)

1. The method of recovering weakly acidic sulfur compounds from hydrocarbons and hydrocarbon fractions which comprises, contacting the hydrocarbon with a modified resin which is the reaction product of a resin and an amine, and has the amine groups attached to the resin molecules through alkoxy chains, and recovering the acidic sulfur compounds from the modified resin.

2,592,524
DIRECT POSITIVE CAMERA ADAPTER

Garnet P. Grant, Jr., Old Greenwich, Conn., assignor to Grant Photo Products, Inc., New York, N. Y., a corporation of Delaware

Application June 28, 1949, Serial No. 101,748
2 Claims. (Cl. 95—11)

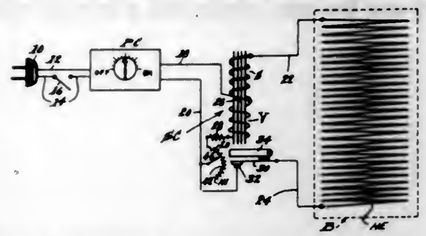


1. In combination with a photographic camera having a lens and ground glass focusing screen, apparatus for adapting said camera for taking direct positive pictures comprising, an image reversing prism adapted to be secured to the lens of said camera, a plate holder receivable within the camera, said plate holder comprising a film exposing slide and a frame having a suitable depth whereby a direct positive film may be supported therein at a distance from the said slide, said spaced arrangement of the film and slide being adapted to facilitate the passage therebetween of developing fluids, a transparent focusing spacer plate equal in thickness to the distance between the slide and photographic film, said spacer plate rearwardly displacing the ground glass focusing screen of the camera, during the focusing operation, a distance equal to the space between the slide and the position of the film when the said plate is removed and the film in the film holder substituted therefor so as to compensate for the necessary increased distance between the slide and the direct positive film in the developing film holder.

2,592,525
SECONDARY TEMPERATURE CONTROL FOR ELECTRIC BLANKETS

Alfred J. Huck, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware

Application August 17, 1948, Serial No. 44,607
1 Claim. (Cl. 219—46)



In a secondary temperature control for a warning blanket or the like having a single heating element, said secondary temperature control comprising a pair of relay coils connected respectively in series and parallel with said single heating element so as to produce opposed magnetomotive forces in conjunction with said heating element for the series coil and independent of said heating element for the parallel coil, relay contacts in the heating element circuit, and an armature for said contacts, said contacts being normally closed and being opened by said relay coils upon the current in the series coil being either reduced in value because of increased resistance in said heating element resulting from excessive temperature of the blanket or increased in value because of decreased resistance in said heating element resulting from a short circuit of part or all of said heating element.

2,592,526
PROCESS FOR POLYMERIZING ETHYLENE IN AQUEOUS EMULSION

Leslie Seed, Northwich, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

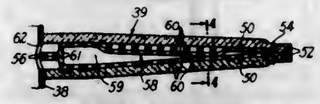
No Drawing. Application November 12, 1948, Serial No. 59,787. In Great Britain November 19, 1947
9 Claims. (Cl. 260—29.6)

1. A process for the manufacture of improved aqueous emulsions of solid ethylene polymers which comprises polymerizing a polymerizable composition comprising ethylene at a temperature of from about 50° to about 400° C. and at a pressure exceeding 200 atmospheres, in the presence of water, a water-soluble non-ionic organic emulsifying agent of the class consisting of polyvinyl alcohol, hydrolyzed polyvinyl acetate polymers, the alkyl ether derivatives of cellulose, the fatty acid esters of mannitan, the fatty acid esters of sorbitan, the monoethers of polyethylene glycols, and the monoethers of polypropylene glycols; and a water-soluble ionic emulsifying agent of the class consisting of the salts of organic sulphonates and the salts of organic sulphates.

2,592,527
FILTER

Francis J. Armstrong, Syracuse, N. Y., assignor to United States Hoffman Machinery Corporation, New York, N. Y., a corporation of Delaware

Application December 7, 1945, Serial No. 633,343
5 Claims. (Cl. 210—181)

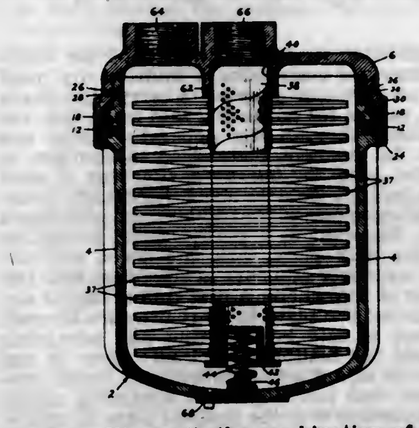


1. A filter element comprising, a pair of rigid discs formed of perforated sheet metal and each having a main portion which is frusto-conical with a flange portion at its inner periphery which flange portion is offset axially to provide spacing means, said discs being in face-to-face relationship whereby their flanges are in engagement with each other and their outer peripheries are in engagement with each other and an annular space is provided between the discs which is substantially triangular in radial cross-section, and a pair of felt discs positioned respectively on the opposite sides of the rigid discs with the felt discs overlying and engaging one another at the outer peripheries of the rigid discs and with the felt discs being stitched together at their outer peripheries whereby a self-sealing filter element is provided which drains readily through the perforations in the rigid discs and thence from the annular space at the inner peripheries of the metal discs.

2,592,528
FILTER

Eugene A. Failmezger, Syracuse, N. Y., assignor to U. S. Hoffman Machinery Corporation, Syracuse, N. Y., a corporation of Delaware

Application April 1, 1947, Serial No. 738,624
5 Claims. (Cl. 210—181)



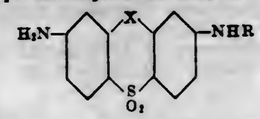
1. In a filter unit, the combination of, a casing construction formed by a lid portion and a shell portion which have interengaging open lugs which may be disengaged by rotating the shell portion with respect to the lid portion, a stop assembly comprising a pair of spaced stops on said lid portion and a single bracket on said shell portion which is adapted to be positioned between said stops and is adapted to limit the turning movement of the shell portion with respect to the lid portion, said lid portion having a central outlet opening and a side inlet opening, a perforated sleeve mandrel coaxially positioned with respect to said outlet opening, a plurality of disc filter elements positioned on said mandrel, and a retaining cup and spring assembly projecting into said mandrel at the end thereof opposite said outlet opening and compressing said filter elements at their inner peripheries.

2,592,529
2-AMINO-7-HETEROCYCLICAMINO-THIOXANTHENES

Edward Delbert Amstutz, Bethlehem, Pa., assignor to The Wm. S. Merrell Company, Cincinnati, Ohio, a corporation of Delaware

No Drawing. Original application July 23, 1946, Serial No. 685,787. Divided and this application December 6, 1950, Serial No. 199,585
4 Claims. (Cl. 260—256.5)

1. A compound represented by the formula

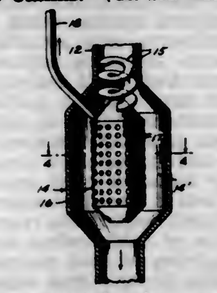


where X is a radical selected from the group consisting of carbonyl and hydroxymethylene, and R is a heterocyclic radical selected from the group consisting of pyridyl, pyrimidyl and thiazolyl.

2,592,530
STEAM SEPARATOR

Nicholas C. Arisay, Valhalla, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York

Application May 24, 1945, Serial No. 595,613
9 Claims. (Cl. 122—488)
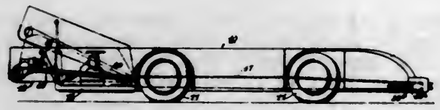


9. A downcomer tube for conducting liquid from the liquid space of a vapor and liquid drum to the vapor generating portion of a vapor generator, said drum having a vapor space and a liquid space therein, said vapor generator having vapor conducting means in communication with the vapor space of said drum and said vapor generating portion of the vapor generator, the downcomer tube having an inlet in direct communication with the liquid space of the drum and an outlet in communication with said generator portion, means in said downcomer tube adjacent the inlet thereof and operative in conjunction with a part of the suction head existing on the downcomer side of the vapor generator's circulatory system for separating entrained vapor bubbles by centrifugal force of rotary motion of said liquid, and means through which separated vapor flows from the separating means and the downcomer.

2,592,531
FORMYLATING TOCOPHEROL MATERIAL
James G. Baxter, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application October 27, 1949, Serial No. 123,989
15 Claims. (Cl. 260—333)

1. The method of making biologically active material which is convertible by reduction to material of high vitamin E biological activity which comprises reacting hexamethylene tetramine and tocopherol material having at least one aromatic hydrogen atom on the benzenoid nucleus, and hydrolyzing the resulting substituent group in the position of said aromatic hydrogen atom on the nucleus of said tocopherol material to a formyl group.

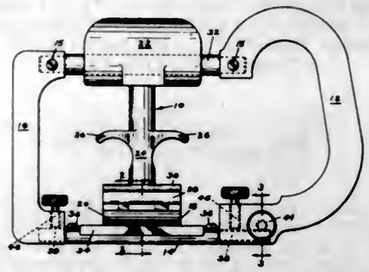
2,592,532
SHUTTLE CAR
William R. Beck, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 21, 1950, Serial No. 145,465
1 Claim. (Cl. 214—83.36)



In a shuttle car, a main frame including a pair of laterally spaced side frame members, upright side walls and a floor plate fixed on said main frame defining a material carrying compartment extending longitudinally of the car, an endless conveyor movable along said floor plate for discharging material at one end of the car, wheel supporting and driving means for said car including a transverse axle structure connecting the side frame members adjacent the discharge end of the frame and immediately below the level of said floor plate, a vertically swingable elongated frame including upright side walls and a floor plate pivotally mounted at the discharge end of said frame on a transverse axis disposed closely adjacent said transverse axle structure and toward the discharge end of the frame, said vertically swingable frame also supporting a portion of said endless conveyor and forming an extension of said material carrying compartment, with its floor level adjustable from a substantially horizontal alignment with the adjacent fixed floor plate of said car, to an elevated angle with respect to the latter for discharging material from said material carrying compartment in all positions of pivotal adjustment.

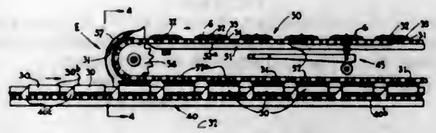
2,592,533
DERMASECTOR
Samuel Gordon Berkow, Perth Amboy, N. J.
Application June 27, 1946, Serial No. 679,632
7 Claims. (Cl. 128—305)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a dermasector, a rigid piece embodying a surface that describes a convex arc of a cylinder, a rigid pedestal attached to the piece and projecting away from it on the side opposite the arcuate surface, the pedestal comprising a hand grip that embodies the axis of the arcuate surface and includes a bore coaxial therewith, a pintle fitted to bear in the bore and being longer than the bore to be movable longitudinally thereof, a pair of rigid arms respectively attached to corresponding opposite ends of the pintle, a bar adjacent to the convex surface and extending parallel with the axis thereof, each of the arms comprising a bearing for the bar, the bearings of the several arms being coaxial



and being parallel with the axis of the arcuate surface, a cutter supported by the bar with its cutting edge parallel with the arcuate surface and off-center of the axis of the bearing, the cutting edge being spaced away from the arcuate surface a predetermined distance and the bar being rotatable in the bearings to adjust the space between the cutting edge and the arcuate surface.

2,592,534
CONFECTION MAKING APPARATUS
Henry E. Bianchi, Elmhurst, N. Y., assignor to G. Cella, Inc., New York, N. Y., a corporation of New York
Application September 21, 1945, Serial No. 617,754
1 Claim. (Cl. 107—1)

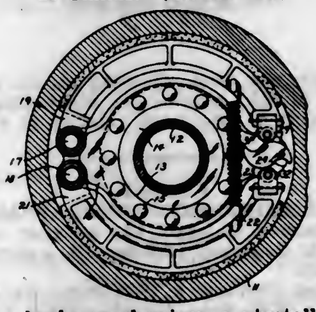


A confection making apparatus of the character described comprising a multi-cavity mold having an open side adapted to carry filled shells therein, means for advancing said mold with the filled shells through the apparatus along one path, a flat resilient plate sized to conform to said open side serving as carrier for a shell closure layer, a flexible sheet removably interposed between said plate and layer on which said layer is deposited in a plastic state, means for advancing said plate with the sheet and deposited layer over said path in alignment with rim openings of said shells, a first rolling means applied against the plate to exert pressure through said sheet to said layer during said advancing movement for sealing said closure layer to rim portions of said filled shells while in fusing precondition, said last mentioned advancing means interconnecting with the resilient plate for movement therewith to dismount the latter after said closure layer sealing, and a second rolling means applied against said flexible sheet to exert pressure on said layer while still in a plastic state for positively assuring complete sealing of the filled shells closures while said rim portions thereof are still in fusing preconditioned state.

2,592,535
PROCESS OF DEDUSTING SOAP AND THE RESULTING PRODUCT
John W. Bodman, Winchester, Mass., assignor to Lever Brothers Company, Cambridge, Mass., a corporation of Maine
No Drawing. Application July 20, 1948, Serial No. 39,800. In Great Britain August 1, 1941
7 Claims. (Cl. 260—398.5)

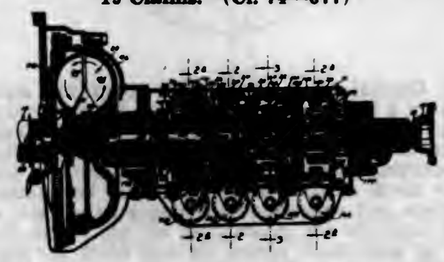
7. A water-soluble soap product comprising finely divided spray-dried soap particles having on at least a portion of their surfaces a superficial coating of an alkali metal alkyl phosphate.

2,592,536
COMPENSATING BRAKE CAM FOLLOWER
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application August 7, 1947, Serial No. 767,217
10 Claims. (Cl. 188—78)



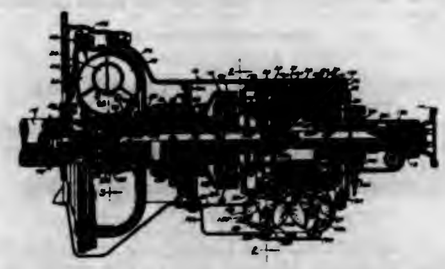
1. In a brake mechanism, a pivotally mounted cam operated brake shoe movable in a certain path and a transversely rockable and slidable cam follower unit mounted on said brake shoe, the axis of rocking of said unit being substantially perpendicular to the pivot axis of said shoe.

2,592,537
POWER-TRANSMITTING SYSTEM
Everett R. Burtnett, Inglewood, Calif., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application February 1, 1946, Serial No. 644,718
19 Claims. (Cl. 74—677)



1. In a power transmitting system the combination of a driving shaft and a driven shaft, means providing a power train between said shafts and including a fluid coupling and an epicyclic gear set having a sun gear and an intermediate shaft fixedly connected to and rotatable with said sun gear, and means providing a second power train between said driving shaft and epicyclic gear set and including a pair of epicyclic gear sets having annulus gears, sun gears, a tubular shaft connected to said driving shaft and concentrically disposed relative to said intermediate shaft and fixedly connected for rotation with the sun gears of said pair of epicyclic gear units, said second power train providing a power path parallel to said fluid coupling and intermediate shaft and sun gear of said first-mentioned epicyclic gear set.

2,592,538
POWER-TRANSMITTING MECHANISM
Everett R. Burtnett, Inglewood, Calif., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application June 17, 1946, Serial No. 677,292
17 Claims. (Cl. 74—677)

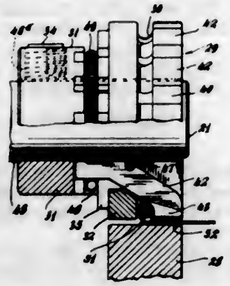


1. In a power transmitting mechanism, in combination, a driving member, a driven member, means providing a torque path between said members including a gear fixed to said driving member, a second gear, a set of planetary gears in mesh with both the aforesaid gears, a rotatable carrier for said planetary gears, a third gear adapted as an input gear for a second planetary gear set, said third gear being directly driven from said second gear, a revolvable fourth gear, a second set of planetary gears, said second set of planetary gears in mesh with both said third and fourth gears, a carrier for said second set of planetary gears, said second carrier drivingly related to said driven member, means operative to drive couple said first-named carrier with said driven member, means for restraining said second gear from rotation for thereby completing a power train from said driving member through said first named set of planetary gears and said carrier therefor to said driven member, and means for alternately restraining said fourth gear for thereby providing a power train in parallel with the first power train from said driving member through said second and third gears and said second set of planetary gears and said carrier therefor to said driven member.

2,592,539
RESILIENT ROLLER FOR LAMP SHADE BINDING MACHINES
John J. Cahill, Bronx, N. Y., assignor to Mutual Machine Company, New York, N. Y., a copartnership
Application May 14, 1949, Serial No. 93,292
17 Claims. (Cl. 93—1)

1. A roller having a normally unbroken peripheral wall, consisting of alternate circumferentially spaced fixed and movable portions, the movable portions being provided by the surfaces of analogous parts of a plurality of independently depressible fingers, resilient means biasing said fingers to normally press the said surfaces of the analogous parts outwardly and means for limit-

ing said outward movement of the finger parts so that they will not project beyond the peripheral

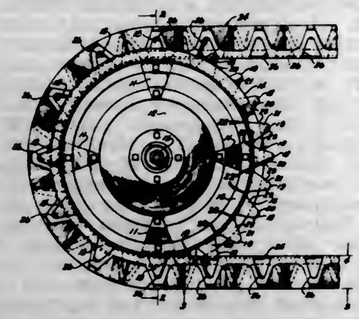


wall of the roller provided by the fixed portions thereof.

2,592,540
STABILIZED TETRAETHYLPYROPHOSPHATE INSECTICIDAL DUST
Carroll C. Cassil and Jerome Yaffe, Berkeley, Calif., assignors to Food Machinery and Chemical Corporation, San Jose, Calif.
No Drawing. Application January 12, 1949, Serial No. 70,609
4 Claims. (Cl. 167—22)

1. An insecticidal dust comprising an inorganic diluent in major amount and as the active ingredient tetraethylpyrophosphate in pine oil in minor amount.

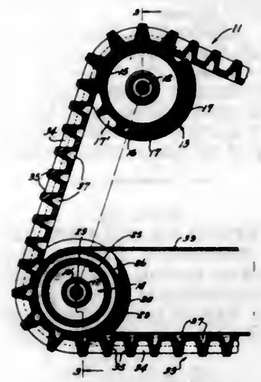
2,592,541
SELF-CLEANING ENDLESS TRACK
George W. Curtis, Wauwatosa, Wis.
Application June 14, 1949, Serial No. 99,062
14 Claims. (Cl. 305—10)



1. An endless track for use in a track laying unit having a sprocket wheel provided with peripheral teeth, said track being formed of flexible molded material and having tooth receiving recesses formed in its inner surface, said recesses communicating at one end with a side edge of said track to permit the expulsion of mud therefrom as the driving teeth enter said recesses and said recesses being closed at their opposite ends.

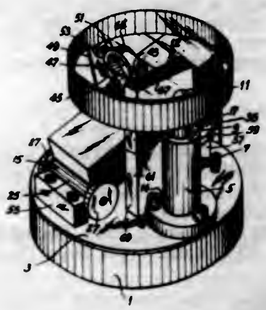
2,592,542
ENDLESS TRACK
George W. Curtis, Wauwatosa, Wis.
Application December 16, 1946, Serial No. 716,652
11 Claims. (Cl. 305—10)

1. An endless track for use in a track laying unit having a driving member provided with driving teeth, said track being formed of flexible molded material and having on its outer side spaced hollow, transversely extending ribs, there being driving tooth receiving grooves on the inner side of said track formed by the interiors of



said hollow ribs, and retaining means adjacent the ends of said grooves for preventing lateral displacement of said track relative to a driving member.

2,592,543
OPTICAL ANGLE MEASURING APPARATUS
Joseph Dauber, Chicago, Ill., assignor to Acme Scientific Company, Chicago, Ill., a corporation of Illinois
Application February 6, 1946, Serial No. 645,926
5 Claims. (Cl. 33—174)



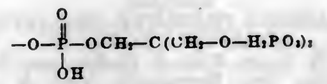
1. Optical angle measuring apparatus comprising a block which is optically flat on its top, a plurality of supports for said block, a base member having an optically flat upper surface supporting at least one of said supports, a first gage block means resting upon said last-named surface and supporting at least another one of the supports for holding at an angle the flat top of said block, means on said block for supporting a piece of conical work, an adjustable support on said base member, at least one additional gage block means resting on said surface of the base member and located between the work and said adjustable support, a transparent member having an optically flat bottom surface resting upon said work and upon said adjustable support, the spacing between said additional gage block means and the optically flat bottom of said transparent member being small enough to produce interference bands visible through the transparent member.

2,592,544
PENTAERYTHRITYL PHOSPHORIC ACID ESTERS OF CELLULOSE AND PROCESSES OF MAKING THE SAME
George C. Daul and John D. Reid, New Orleans, La., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application April 25, 1950, Serial No. 158,056
13 Claims. (Cl. 260—219)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

6. A product of the group consisting of pentaerythrityl poly-phosphoric acid ester of cellulose having ion-exchange properties and free phosphoric acid, namely

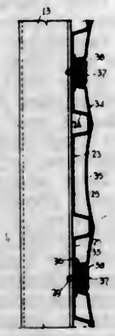


groups, in which the cellulose molecule is esterified to form the linkage: cellulose unit



and ammonium salts thereof.

2,592,545
COVER PANELS FOR VEHICLES, ESPECIALLY RAILWAY CARS
Albert G. Dean, Narberth, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 24, 1947, Serial No. 782,000
7 Claims. (Cl. 105—401)

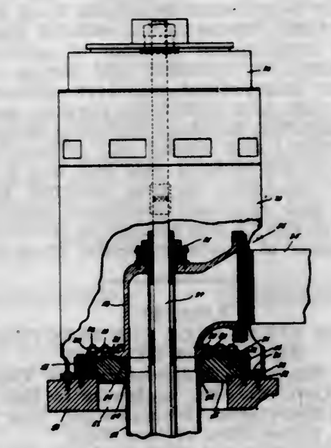


1. In a vehicle body, a side wall having a plurality of vertical frame members spaced from each other in the longitudinal direction of the vehicle, a longitudinally extending panel on the outside of said members provided on its outside with horizontally arranged nodes, said nodes being spaced from each other in vertical direction a distance greater than their individual widths, said panel being secured by its portions between the nodes to said frame members, fluted cover paneling having the pitch of the flutes equal to the distance between the nodes of the panel, said paneling being secured along lines between adjoining flutes to the tops of nodes of said panel.

2,592,546
PHOTOENGRAVING
Alfred E. Dirkman, Waban, Mass.; Agnes Marie Dirkman executrix of said Alfred E. Dirkman, deceased
No Drawing. Application June 10, 1947, Serial No. 753,817
14 Claims. (Cl. 41—43)

1. The method of reetching a partially etched half-tone photo-engraved plate to effect a gradual lightening of the tones thereof, which comprises applying to the etched surface of the plate to fill in the etched areas thereof a hard, adhesive, acid-resistant, water-immiscible protective material containing as essential ingredients a plurality of hard waxes including candelilla wax, said hard waxes together comprising the major proportion of said protective material, the amount of candelilla wax being at least equal to that of any of the other hard waxes, removing the protective material from such filled-in etched areas of the plate to expose only a portion thereof, then treating the plate with an acidic etching medium to effect an initial reduction in the size of the printing dots in such exposed, unprotected portion, removing the protective material from a further portion of the etched areas of the plate, again treating the plate with an acidic etching medium to effect a further reduction in the size of the printing dots in the resulting unprotected portion thereof, and repeating such removal of the protective material from the etched areas and such treatment with the etching medium until the desired degree of lightening is accomplished.

2,592,547
DEEP-WELL PUMP
Fenmore E. Dunn, Lawrenceburg, Ind., assignor to A. D. Cook, Incorporated, Lawrenceburg, Ind., a corporation of Indiana
Application September 15, 1947, Serial No. 774,092
5 Claims. (Cl. 285—27)



1. In a well-head, a horizontal base plate having an opening extending through it, a well column extending through said opening, said column being provided at its top with an integral flange projecting outwardly beyond the sides of said opening to rest on the upper surface of said base plate and thereby support the weight of the

column, said flange having a downwardly projecting pilot portion located in said opening, a discharge elbow having an inlet opening aligned with the well column and a laterally presented outlet opening, and means for securing said elbow in any of a plurality of positions angularly spaced about the axis of the well column.

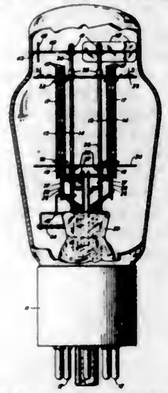
2,592,548
WIRE FABRIC STRUCTURAL MEMBER
Walter S. Edge, Kansas City, Mo., and Alfred J. Edge, Jacksonville, Fla.
Application March 14, 1946, Serial No. 654,334
8 Claims. (Cl. 129—37)



1. A metallic structural member having a pair of converging legs and a transverse portion connecting said legs, said member comprising a pair of longitudinal members spaced from each other, a second pair of longitudinal members spaced from said first pair, all said longitudinal members being parallel to each other, and obliquely extending members extending back and forth across said longitudinal members to provide two series of oblique members, the obliquely extending members of each series being parallel to each other and the members of one series being inclined oppositely to the members of the other series relative to said longitudinal members, said obliquely extending members intersecting and crossing all said longitudinal members at points spaced longitudinally of said longitudinal members and being fixed thereto at said intersections and said obliquely extending members of one series intersecting the obliquely extending members of the other series and being fixed to each other at their intersections, each of said legs having a longitudinal member of said second pair adjacent its extremity and having one of said other longitudinal members adjacent its junction with said transverse portion, said obliquely extending members including bends projecting beyond said second pair of longitudinal members at the ends of said legs and a longitudinally extending member secured to said bends to hold said last mentioned longitudinal members in side by side relation to form a structural member of closed triangular cross section.

2,592,549
ANODE STRUCTURE FOR ELECTRON DISCHARGE DEVICES
Sture O. Ekstrand, Bethlehem, and Victor L. Ronci, Zionsville, Pa., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 3, 1949, Serial No. 108,356
10 Claims. (Cl. 313—326)

6. In an electron discharge device, a cathode having two oppositely directed emitting surfaces, a grid portion adjacent each emitting surface, and an anode assembly, said assembly comprising a pair of plate sections each opposite one of said emitting surfaces, said plate sections having spaced inwardly projecting embossments adjacent parallel edges thereof, the embossments of one plate being in abutting aligned relation with the embossments of the other plate and secured



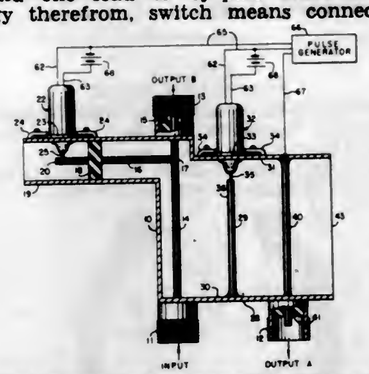
thereto to provide accurate spacing between said sections.

2,592,550
FLEXIBLE PRESSURE-SENSITIVE ADHESIVE PRODUCTS
Edward W. Engel, Etzio J. Giolito, and James A. McGarry, New Brunswick, Vlon N. Morris, Highland Park, and Charles L. Weidner, Cranbury, N. J., assignors to Industrial Tape Corporation, a corporation of New Jersey
No Drawing. Application October 6, 1949, Serial No. 119,998
7 Claims. (Cl. 117—122)

1. A pressure-sensitive adhesive product having as a backing, a flexible bonded sheet comprising a fibrous paper web of an initially porous material, the fibers of which are bonded together internally of the web by particles of an impregnating agent which have entered the pores of the web, saturating it to the extent of from about forty to about sixty per cent of its weight, said impregnating agent comprising per hundred parts of its weight: from about fifteen to about fifty parts of butadiene styrene copolymer averaging at least about twenty per cent styrene and at least about forty per cent butadiene, from about ten to about forty parts of a butadiene styrene copolymer comprising at least about five per cent butadiene and at least about eighty-five per cent styrene and from about fifty to about eighty parts of a butadiene acrylonitrile copolymer comprising at least about forty per cent butadiene and at least about thirty per cent acrylonitrile, the particles of said copolymers being predominantly less than four microns in diameter, and a normally tacky and pressure-sensitive butadiene type adhesive coated onto said backing, said backing being characterized by high tensile strength and great resistance to force exerted by the pressure-sensitive adhesive tending to separate and delaminate said backing and to separate said adhesive from said backing when the product is separated from rolls or stacks thereof.

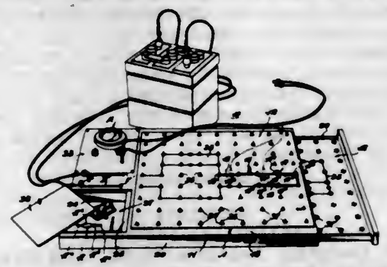
2,592,551
SWITCHING SYSTEM FOR HIGH-POWER RADIO-FREQUENCY ENERGY
Warren H. Flarity, Washington, D. C.
Application January 7, 1949, Serial No. 69,765
9 Claims. (Cl. 178—44)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A device for switching radio-frequency energy from a source to either of two loads comprising; direct coupling means between said source and one load, a resonant coupling means coupling said source by virtue of the resonance thereof to the other load, means connected to said direct coupling means for normally placing across said one load a low impedance relative to said one load to by-pass radio-frequency energy therefrom, switch means connected to



said last named means operative upon actuation thereof to remove said low impedance, control means coupled with said resonant means for stopping the oscillations in same upon actuation thereof, actuating means connected to said switching means and said control means for simultaneously actuating same, whereby the energy is switched from one load to the other load.

2,592,552
ELECTRICAL INSTRUCTION BOARD
Luis De Florez, United States Navy, and David K. Morrison, Arlington, Va.
Application October 4, 1944, Serial No. 557,210
2 Claims. (Cl. 35—19)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



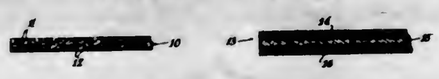
1. Portable electrical educational apparatus of the character disclosed comprising, in combination, thin rectangular frame means having a substantially flat upper face member composed of non-conducting material, a plurality of studs of conducting material affixed to said face member in equally spaced parallel rows, the distance between studs in a row being the same as the distance between rows, a plurality of washers for said plurality of studs respectively, a template removably mounted upon said face member, said template having a plurality of openings therein corresponding in spacing to the disposition of the studs on said face member, said template being composed of non-conducting material, said openings being substantially similar in diameter to the washers whereby said washers snugly fit in said openings respectively and the template is prevented from substantial sliding movement on said face member, said template having means thereon forming an electrical circuit diagram, a plurality of circuit elements connected between at least some of said studs whereby an electrical circuit similar to that of the diagram on the template is formed, and means electrically connected to said circuit for energizing the circuit.

2,592,553
TOBACCO PRODUCTS AND PROCESSES THEREFOR
Walter G. Frankenburg, Millersville, Pa., and Paul W. Garbo, Freeport, N. Y., assignors, by direct and mesne assignments, to General Cigar Co., Inc., New York, N. Y., a corporation of New York
No Drawing. Continuation of application Serial No. 720,682, January 7, 1947. This application January 30, 1950, Serial No. 141,357
18 Claims. (Cl. 131—15)

1. A tobacco product adapted for smoking, which comprises a predominant proportion of dry-ground tobacco and a minor proportion, not exceeding 20% by weight of said tobacco, of a water-soluble cellulose derivative having the property of forming an aqueous solution with a viscosity of at least 1500 centipoises at a temperature of 25% C. when not more than about 2% by weight of said cellulose derivative is dissolved in water, said cellulose derivative functioning to hold the particles of said tobacco together as a coherent mass.

14. The improved process of converting tobacco into a physically continuous and coherent form adapted for smoking, which comprises dry-grinding tobacco, mixing the dry-ground tobacco and a viscous aqueous solution of a water-soluble cellulose derivative in proportions to form a cohesive paste substantially free of exudation, said viscous aqueous solution having a viscosity of at least 1500 centipoises at a temperature of 25° C. and said cellulose derivative yielding a viscosity of at least 1500 centipoises at a temperature of 25° C. when not more than about 2% by weight thereof is dissolved in water, and shaping and drying said paste into a desired, physically continuous and coherent form adapted for smoking.

2,592,554
RESILIENT TOBACCO PRODUCT AND METHOD OF MAKING THE SAME
Walter G. Frankenburg, Millersville, Pa., assignor to General Cigar Co., Inc., New York, N. Y., a corporation of New York
Application August 24, 1946, Serial No. 692,775
29 Claims. (Cl. 131—15)



13. A tobacco product in physically continuous and coherent form characterized by flexibility and adaptability for smoking, which comprises a predominant proportion of dry-ground tobacco, a minor proportion, not exceeding 20% by weight of said tobacco, of a water-soluble binding agent innocuous to the smoking qualities of said tobacco and having the property of forming an aqueous solution with a viscosity of at least 1500 centipoises at a temperature of 25° C. when not more than 5% by weight of said binding agent is dissolved in water, and a minor proportion, lesser than said minor proportion of binding agent and not exceeding 5% by weight of said tobacco, of fine flexible glass fibers, said binding agent and said glass fibers holding the particles of said to-

bacco together in said physically continuous and coherent form.

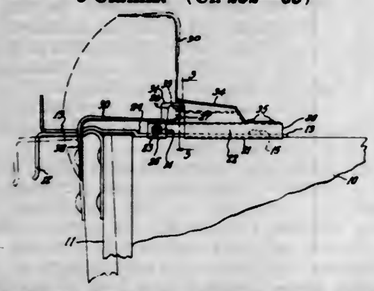
19. The improved process of converting tobacco into a physically continuous and coherent form adapted for smoking, which comprises dry-grinding tobacco, mixing the dry-ground tobacco and a viscous aqueous solution of a binding agent innocuous to the smoking qualities of said tobacco in proportions to form a cohesive paste substantially free of exudation of said viscous aqueous solution, said viscous aqueous solution containing not more than about 5% by weight of said binding agent and having a viscosity of not less than 1500 centipoises at a temperature of 25° C., and shaping and drying said paste into a desired, physically continuous and coherent form adapted for smoking.

2,592,555

DOOR-ACTUATED MAILBOX SIGNAL

Theodore F. Gensmer, Portland, Oreg., assignor to H. M. Seivert, Portland, Oreg.

Application February 14, 1948, Serial No. 8,325
5 Claims. (Cl. 232—35)



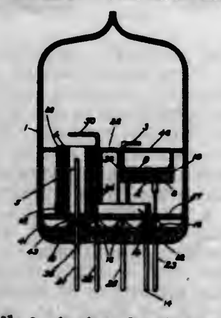
1. A signal device for a mail box and the like having a door and a latch member of flat strip metal extending longitudinally of the top of said box; said signal device comprising a base member having a channel shaped portion provided with inwardly turned flanges arranged to grip said latch member, means for drawing said inwardly turned flanges towards each other in gripping relation to said latch member, said means being arranged to permanently hold said flanges in gripped position, and a signal flag pivotally mounted on said base member and activated for movement from horizontal to vertical position by the opening of said door.

2,592,556

GASEOUS-DISCHARGE DEVICE

Kenneth J. Germeshausen, Newton Centre, Mass.

Application September 25, 1947, Serial No. 776,121
25 Claims. (Cl. 313—199)



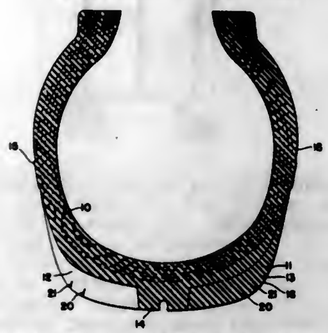
1. A gas-filled device having a plurality of electrodes in the gas of the device comprising an anode, a solid cold cathode the cathode emission of which is adapted to be obtained from a small spot on the cold cathode and a control electrode spaced from the anode a distance such that the product of the said distance and the pressure of the gas is represented by points of the Paschen curve for the said gas to the left of its lowermost portion.

2,592,557

PNEUMATIC TIRE

Everett H. Gibbs, Wadsworth, Ohio, assignor to Seiberling Rubber Company, Akron, Ohio, a corporation of Delaware

Application June 22, 1950, Serial No. 169,580
10 Claims. (Cl. 152—209)



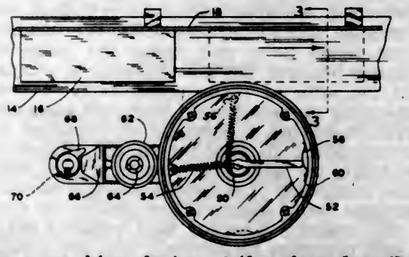
1. A pneumatic tire having a tread portion of elastic material provided with anti-skid configurations including a central circumferential portion and circumferentially spaced traction lugs integral therewith and extending laterally therefrom to adjacent the opposite side edges of said tread portion, said lugs being generally substantial and solid and therefore substantially resistant to flexing action under normal load stresses in use of the tire, said laterally extending lugs having adjacent the edges of the tread portion a plurality of laterally spaced slits extending circumferentially across the lugs and radially inwardly of the tread surface to a substantial depth without materially reducing the substantial forward traction qualities of the tire, said slits forming blocks which are laterally flexible in said use of the tire to minimize lateral skidding of the same.

2,592,558

MARKING DEVICE

Ira S. Gottscho, Brooklyn, N. Y., and Kenneth H. Kuett, Paramus, N. J., assignors, by direct and mesne assignments, to Adolph Gottscho, Inc., Hillside, N. J., a corporation of New York

Application October 2, 1948, Serial No. 52,444
8 Claims. (Cl. 101—37)



6. In a marking device of the class described, a stationary shaft, a substantially cylindrical

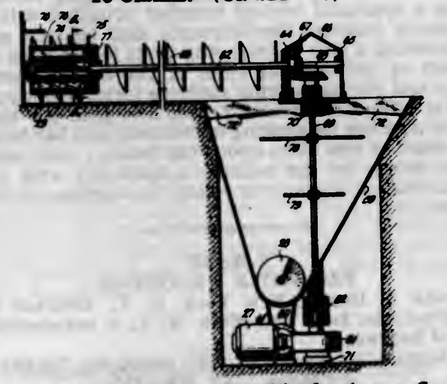
drum having marking means on its periphery and being rotatably mounted on said shaft, a radially extending member fixed on said shaft and terminating at one end adjacent the cylindrical wall of said drum, a spring connected to said member and said drum for returning the latter to a predetermined position, and a spring clip on the cylindrical wall of said drum for engaging said end of said member to retain said drum in such position.

2,592,559

APPARATUS FOR CHARGING AND STORING MATERIALS

William R. Graham, Jr., Wilmette, Ill., and Joseph Chrisman, Kansas City, Mo., assignors to American Dairies Incorporated, Kansas City, Mo., a corporation of Maryland, and The Quaker Oats Company, Chicago, Ill., a corporation of New Jersey, jointly

Original application February 17, 1945, Serial No. 578,506. Divided and this application March 20, 1950, Serial No. 150,578
16 Claims. (Cl. 214—17)



9. In combination with a bin having a floor, a central pivot with an elongated screw conveyor extending radially outward therefrom, said conveyor having at its outer end a shaft extension encircled by a hollow container rotatably mounted on said extension, vanes on the interior of said container and on said shaft extension, a source of power connected to the inner end of said screw conveyor for rotating same about its longitudinal axis, and a body of liquid in said container adapted at times to transmit the rotation of the vanes on the shaft extension to the vanes on the container.

2,592,560

POLYEPOXIDE COMPOSITIONS

Sylvan Owen Greenlee, Louisville, Ky., assignor to Devoe & Raynolds Company, Inc., Louisville, Ky., a corporation of New York

No Drawing. Application November 2, 1945, Serial No. 626,449
13 Claims. (Cl. 260—47)

1. A complex polymeric resinous polyepoxide composition resulting from the direct addition-reaction of dihydric phenols free from reactive groups other than phenolic hydroxyl groups and aliphatic diepoxides free from reactive groups other than epoxide and aliphatic hydroxyl groups and having the following general formula:

$$R_1-[O-R-O-R_2]_n-O-R-O-R_1$$

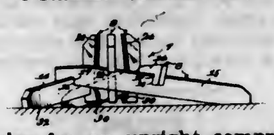
in which R is the residue of the dihydric phenol, R_2 is an aliphatic radical containing two aliphatic hydroxyl groups, R_1 is an aliphatic radical containing an alcoholic hydroxyl group and a terminal epoxide group, and n is at least 1.

2,592,561

BASE STAND

Ted L. Greenwood, Portland, Oreg.

Application April 15, 1949, Serial No. 87,645
8 Claims. (Cl. 248—48)



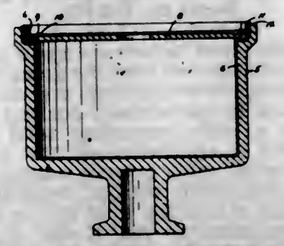
8. A holder for an upright comprising three corresponding elongated bars each having a bottom edge provided with a notch adjacent one end thereof and a top edge provided with a notch disposed intermediate of the ends of said bar, each of said first mentioned notches detachably engaging in one of the last mentioned, intermediate notches for positioning corresponding ends of the bars in inter-engaging relationship to form a triangular portion, said bars being inclined outwardly and downwardly from said triangular portion and being disposed on edge and supported on their bottom edges and adjacent their outer ends and remote to said triangular portion for positioning the triangular portion in an elevated position, and a clamping jaw demountably supported on each of said bars intermediate of the ends of the side of the triangle formed thereby, said clamping jaws each having an outer edge portion engaging against the inner surface of the bar on which it is supported and being provided with a downwardly facing outwardly extending shoulder at the upper end of said outer edge portion engaging on the upper edge of said supporting bar, each jaw having an inner edge provided with a downwardly and inwardly inclined upper portion forming a clamping surface and a downwardly and outwardly inclined lower portion adapted to be engaged by the lower end of an upright member, positioned between the jaws, whereby the lower end of the upright member when displaced downwardly will function as a wedge to spread said lower jaw portions for rocking said jaws on the bars in directions for swinging the clamping surfaces inwardly and into clamping engagement with the upright member.

2,592,562

METALLIC BUCKET LINER

Hugh D. Haley, Drexel Hill, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application August 29, 1950, Serial No. 181,946
8 Claims. (Cl. 57—76)



1. A spinning bucket for building a substantially cylindrical yarn cake comprising a metallic body having a recessed rim section and a cover, the body comprising an annular corrosion-resist-

ant insert secured within the rim section in continuous contact with surfaces thereof, said insert having an inner cylindrical surface of slightly greater diameter than the cover and another offset inner surface of a diameter equal to that of the cylindrical cake-forming surface of the bucket, and an annular surface extending between said two surfaces of the insert having different diameters to form a seating surface for the cover, a protective coating for the interior surface of the body and the portion of the insert having the same diameters, said coating having a smoothly polished surface and comprising paper filled with a corrosion-resistant resinous binder.

2,592,563

STABILIZATION OF COLOR IN FRUIT

James E. Hall, Mount Vernon, and Edward A. Heiss, Bothell, Wash., assignors to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey

Application May 29, 1948, Serial No. 30,144
9 Claims. (Cl. 99—193)

1. The process of treating fruit prior to freezing to stabilize the color thereof which comprises contacting the fruit with a water solution comprising from about 100 to about 500 parts of sulfur dioxide per million parts of water and sufficient acid to maintain the solution at a pH of from about 1.0 to about 2.5 and thereafter freezing the fruit without exposing untreated surfaces.

2,592,564

ASPHALT CUTBACK CONTAINING AN ALIPHATIC PHOSPHORIC ACID ESTER

Harley F. Hardman, Wickliffe, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application May 22, 1948, Serial No. 28,729
13 Claims. (Cl. 106—273)

1. An asphalt composition consisting essentially of cutback asphalt and a phosphoric acid ester of an aliphatic hydroxy compound selected from the group consisting of alcohols, hydroxy esters and hydroxy acids containing only carbon, hydrogen and oxygen and having 10 to 18 carbon atoms, said phosphoric acid ester having an acid hydrogen atom in the phosphoric acid radical and being in an amount to improve the adherence of the cutback asphalt to wet stone.

2,592,565

ANIMAL FEED

Mortimer T. Harvey, South Orange, N. J., assignor to Harvel Research Corporation, a corporation of New Jersey

No Drawing. Application February 15, 1951, Serial No. 213,479
4 Claims. (Cl. 99—2)

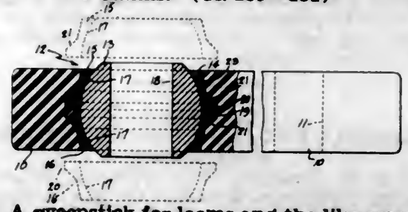
1. An animal feed including a minor proportion of a compound selected from the group consisting of (*a*) urea-diacetone alcohol organic reaction product which in substantially purified condition is normally a white crystalline solid having a melting point of approximately 279° C.–280° C., (*b*) urea-mesityl oxide organic reaction product which in substantially purified condition is normally a white crystalline solid having a melting point of approximately 290° C.–291° C., and (*c*) urea-acetone organic reaction product which in substantially purified condition is normally a white crystalline solid having a melting point of approximately 252° C.

2,592,566

SWEEPSTICK

Lewis R. Heim, Fairfield, Conn., assignor to The Heim Company, Fairfield, Conn., a corporation of Connecticut

Application August 5, 1949, Serial No. 108,704
7 Claims. (Cl. 139—151)



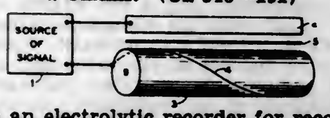
1. A sweepstick for looms and the like comprising a connecting bar provided with means at one end for connection to a driving member and means at the other end for connection to a driven member, said bar being composed of a molded flexible resilient material capable of limited yielding both laterally and longitudinally under strain, one of said means comprising a bearing including a spherical central member provided with a bearing passage therethrough, said bearing also including a pair of enclosing rings located one on each of the opposite sides of the central member and having bearing surfaces forming portions of a spherical surface to grip and hold the central member for rocking movement, said bar being molded in one piece about the bearing, and locking means on the bearing cooperating with the material of the bar to retain the bearing in the bar.

2,592,567

FACSIMILE RECORDER

Frank A. Hester, New York, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware

Application August 4, 1947, Serial No. 765,936
2 Claims. (Cl. 346—101)



1. In an electrolytic recorder for recording on a sheet drawn between marking electrodes, the combination of a linear electrode and a cooperating rotatable helical electrode intersecting to define a marking spot which traces successive lines across the paper, the diameter of the helix being greater than its pitch so that the angle θ which the helical electrode makes with the linear electrode is greater than 45 degrees, the widths of the electrodes being proportioned so that the ratio of the effective contact width of the helical electrode to the contact width of the linear electrode is substantially equal to

$$\sqrt{\sin^2\theta - \cos^2\theta}$$

whereby the recorder provides substantially equal definition in the direction of the traced lines and at right angles thereto.

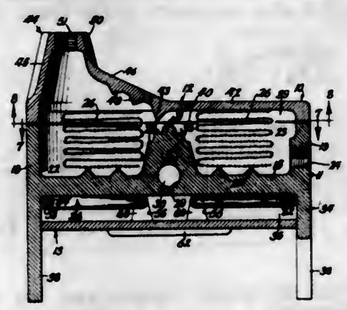
2,592,568

METHOD AND APPARATUS FOR PRETREATING LIQUID FUEL

Harold S. Hill, Lockport, N. Y.

Application October 12, 1949, Serial No. 120,908
19 Claims. (Cl. 219—39)

13. A preheater comprising an enclosed casing having an inlet and an outlet and having a marginal depending skirt forming a heating element chamber, an electrical resistance heating element within said chamber and having its terminal ends projecting outwardly through a pair of upwardly extending notches provided in one side of said depending skirt, a bottom plate for said heating element chamber and projecting under the notched side of said depending skirt, a lug projecting horizontally inwardly from the side of



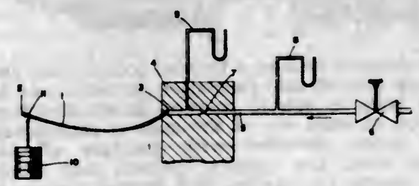
said depending skirt opposite said notches and supporting the corresponding side of said bottom plate, a housing section arranged to enclose the terminal ends of said electrical resistance heating element, means removably securing said housing section to the exterior of the corresponding side wall of said casing, and a lip projecting horizontally from said housing section under the corresponding side of said bottom plate to support the same.

2,592,569

PRESSURE RESPONSIVE MEASURING APPARATUS

James Pirie Henderson, La Grange Park, Ill., assignor to McAlear Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application March 14, 1951, Serial No. 215,400
6 Claims. (Cl. 73—228)



1. An apparatus of the class described comprising open ended resilient conduit means having a restricted portion the cross-sectional area of which varies as the result of deflection of said conduit means, pressure fluid conducting fixed conduit means connected with said resilient conduit means, means in said conduit means for establishing a predetermined initial input pressure of a fluid to said resilient conduit means, means for deflecting said resilient conduit means in response to variations in a condition, a take-off conduit connected between said input pressure establishing means and said restricted portion to transmit the resultant variable pressure, and a pressure responsive device connected to said take-off conduit.

2,592,570

STAPLE EXTRACTOR

Robert Hofstetter, Alexandria, Va.

Application August 31, 1949, Serial No. 113,441
1 Claim. (Cl. 254—28)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



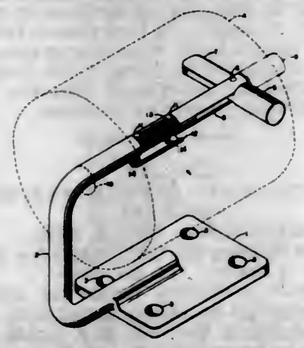
In a portable staple extracting device, the improvement which comprises a housing forming a handle provided with two spaced claws merging into staple arresting abutments, a pin supporting shoulder and a pin receiving recess, a pair of opposed claws rigidly connected with a U-shaped member provided with a cam face and a longitudinal slot retractably mounted within said handle, a pressure distributing button rigidly secured to said retractable member, a transverse pin mounted in said retractable member and extending laterally to engage said shoulder of said handle, a transverse cam engaging pin mounted in said housing, a coiled spring mounted on said cam engaging pin having oppositely extending arms one of which bears against said housing while the companion arm bears against said transverse pin in said retractable member, and a second transverse pin in said housing which is mounted transversely to said retractable member and engages the slot in said member.

2,592,571

ROLLED MATERIAL DISPENSER

Charles M. Huntington, United States Navy, Los Angeles, Calif.

Application October 23, 1946, Serial No. 705,115
1 Claim. (Cl. 242—55.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



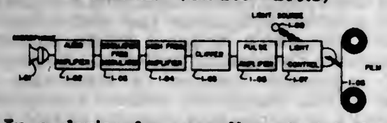
A dispenser for rolled material comprising a supporting base, a cylindrical supporting bar integral with said base and extending outwardly thereof, said bar having spaced transverse passages extending therethrough and said bar being adapted to support a roll of dispensable material thereon, a toggle bar centrally pivotally mounted on said supporting bar adjacent the free end

thereof for supporting the roll against dislodgment from said supporting bar, said toggle bar being rotatable substantially 90 degrees in either direction from a position in alignment with said supporting bar, and brake means resiliently mounted on said supporting bar intermediate the ends thereof for frictionally engaging the inner surface of the roll to restrict the free rotation thereof said brake means comprising a concavo-convex shoe which has a concave surface of a radius of curvature similar to the radius of curvature of said bar, said shoe being mounted parallel to and wholly exteriorly of said bar, spaced supporting means connected to said shoe and slidably extending into said passages, springs concentric with said supporting means and normally urging said shoe wholly laterally away from said bar.

2,592,572

APPARATUS FOR RECORDING AND REPRODUCING ELECTRICAL COMMUNICATION CURRENTS

Malbon H. Jennings, Yonkers, N. Y.
Application August 16, 1946, Serial No. 690,985
6 Claims. (Cl. 179—100.3)



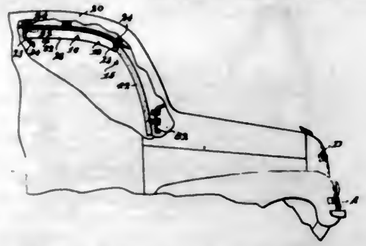
1. In a device for recording electrical signals on a moving retentive medium; modulating means for converting the signals to be recorded into a frequency modulated carrier current of substantially constant mean frequency and having voltage peaks of substantially uniform amplitude, the time interval between successive voltage peaks varying in accordance with both the frequency and amplitude of the signal to be recorded; pulse producing means including wave shape modifying means for deriving a series of impulses from the successive voltage peaks of the modulated carrier current, the impulses being caused to be of substantially uniform duration and amplitude by the action of the wave shape modifying means, the time interval between successive pulses varying in accordance with varying intervals between successive voltage peaks of the modulated carrier current; and recording means responsive to the pulse producing means for producing a series of impressions on the moving medium in response to successive impulses, the impressions being substantially uniform in all respects and spaced from each other along the medium in the direction of motion thereof in accordance with the varying intervals between successive impulses.

2,592,573

AUTOMATIC CRASH CURTAIN FOR MOTOR VEHICLES

Alex B. Joncas, Detroit, Mich.
Application October 21, 1949, Serial No. 122,676
1 Claim. (Cl. 296—84)

An occupant protecting device for motor vehicles comprising a housing adapted to be secured to the underside of the roof of a motor vehicle and having an open forward end disposed above and adjacent the vehicle windshield, a relatively thick cushioning pad forming an elongated crash curtain slidably mounted in the housing for sliding movement through the open end thereof, said curtain having a trailing end provided with stop means engaging a portion of the housing for retaining said trailing end therein to support the crash curtain in a depending, projected position relatively to the open end of the housing, a bar slidably disposed in the housing and engaging the trailing end of the crash curtain for displacing the crash curtain from a retracted position within the housing to a projected position, spring means anchored in the housing adjacent its open end and connected to said bar and normally urging the bar and crash curtain toward projected positions, latch means within said housing releasably latching the bar in a retracted position, manually actuated reel means contained within the housing and connected to the crash curtain

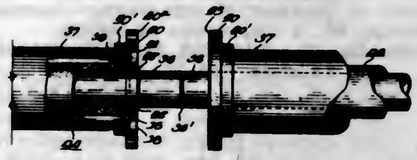


for moving the crash curtain and bar to retracted positions, a solenoid disposed in the housing adapted to be connected to and energized by the storage battery of the vehicle having a core connected to said latch means for releasing the latch means when the solenoid is energized, a normally open switch interposed in the circuit of the solenoid and secured in the housing, and a weighted member slidably supported in said housing and adapted to be propelled by inertia upon sudden stopping of the vehicle into a position for closing the normally open switch to energize said solenoid.

2,592,574

PIPE JOINT FITTING

Edward W. Kaiser, Chicago, Ill.
Application October 29, 1948, Serial No. 57,221
12 Claims. (Cl. 138—87)



12. In combination, a tubular body having open ends, a pipe in and extending through said tubular body in spaced relation to its peripheral surface, at least one of the ends of said tubular body being provided with jointure effecting means about the opening thereof, said tubular body having an internal seat formed therein inwardly of said jointure effecting means and opening outwardly thereunto, said seat extending both radially and axially of said tubular body, and an anchor plate engaged in and with said internal seat, said anchor plate receiving said inner pipe therethrough and being connected thereto.

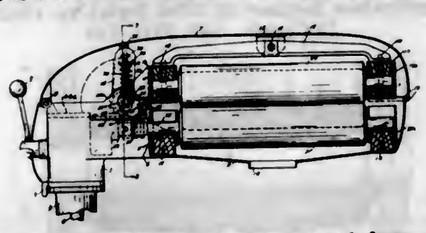
2,592,575

PRESSURE APPLYING AND RELEASE MECHANISM FOR WRINGERS

Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application December 26, 1944, Serial No. 569,770
16 Claims. (Cl. 68—263)

1. In a wringer, a frame, spaced pivots on the frame, a roll pressure member hinged at one of

said pivots, a link hinged at the other pivot for swinging movement from a position along to a position transverse to the center line of the pivots, a spring connected at one end to the free end of the link and extending away from the free end of the link and toward the other pivot, and a

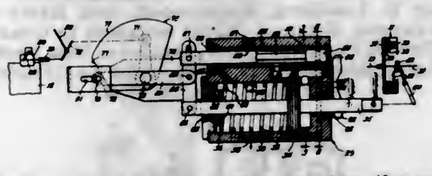


part on the pressure member spaced from the pivot on which the pressure member is hinged and connected to the other end of the spring whereby the roll pressure is dependent upon the position of the link with reference to the center line.

2,592,576

CLUTCH CONTROL

Donald W. Kelbel, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 7, 1944, Serial No. 552,952
18 Claims. (Cl. 192—.052)



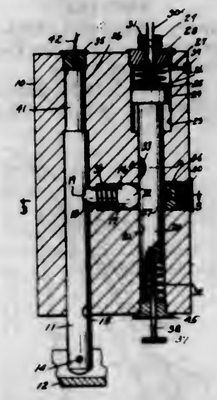
1. In power transmission mechanism, the combination of a drive shaft, a driven shaft, a friction clutch for completing a drive between said shafts, said clutch comprising spring means for engaging the clutch, a power device comprising a piston connected to operate said clutch, a spring associated with said power device and acting on said piston and of greater strength than said spring means whereby to disengage the clutch, a fluid-pressure source connected to said device to operate said piston, a valve effective between said fluid pressure source and said piston for applying fluid pressure to the piston to engage the clutch, and a control linked with said piston and said valve whereby the piston moves approximately proportionally to the movement given the control.

2,592,577

LOAD RELEASING DEVICE

Elmer Knerem, Cleveland, Ohio
Application September 13, 1947, Serial No. 773,804
6 Claims. (Cl. 294—83)

1. In a load release mechanism, a body, a bolt axially movable in said body, a pair of plungers each mounted for axial movement in said body with their axes intersecting the axis extended of said bolt and at opposite ends thereof, said plungers being spaced apart a distance less than the length of said bolt, each of said plungers having a bolt receiving recess in its side wall, one of said plungers extending substantially vertically and comprising a load carrying member separable by gravity from said body when released therefrom and having its recess normally receiving the end of said bolt, load-securing means on the lower end of said plunger external to said body, the other of said plungers having its recess normally out of alignment with said bolt, and means under control of the operator to move said last-named plunger axially to align its recess with the bolt, resilient means to move said bolt out of engagement with the recess of the first-

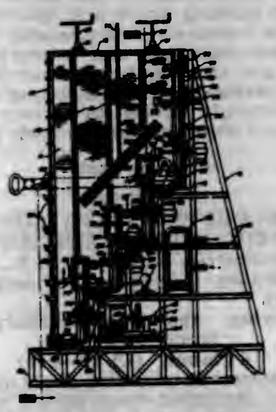


named plunger, and into engagement with the recess of the second-named plunger, and means under control of the operator adapted to act downwardly to forcibly eject the first-named plunger from said body in case the action of gravity is insufficient.

2,592,578

CONCRETE STEP FORM

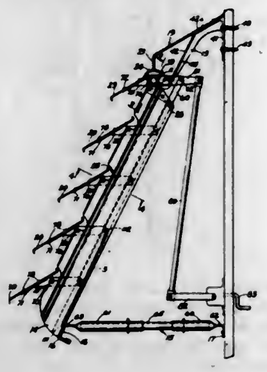
Frank Kogl, St. Paul, Minn., assignor of two and one-half per cent to Walter H. Carlson, two and one-half per cent to Ora E. Carlson, West St. Paul, four per cent to Minnie M. Clark, four per cent to Genevieve Clark, South St. Paul, Minn., and ten per cent to Richard L. and Ruby S. McBride Flynn, Superior, Wis.
Application April 28, 1947, Serial No. 744,430
7 Claims. (Cl. 25—118)



1. In a form for casting a series of concrete steps and sides therefor in a monolithic unit, inner and outer spaced forms having portions for shaping the treads and risers of the steps and the sides therefor, the said form while casting being supported on end with its rear end uppermost for pouring the material downward into the space between the forms toward the front end or lowermost step, the sides of the outer form having openings through which material may be

poured and a tool introduced to surface off the material, and cover plates removably mounted over the openings.

2,592,579
AWNING
John F. Kramer, Cleveland, Ohio, assignor, by mesne assignments, to Dracco Corp., Cleveland, Ohio, a corporation of Ohio
Application August 15, 1947, Serial No. 768,897
4 Claims. (Cl. 20—57.5)

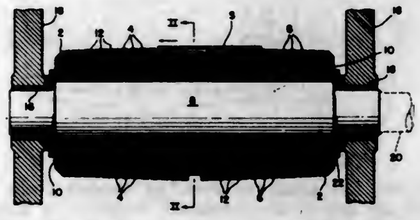


1. A louver awning comprising side rails, louvers pivotally supported on said side rails, an operating shaft, said side rails being pivotally supported for swinging movement about the axis of said operating shaft, means for rotating said operating shaft, means for transmitting shaft movement to said louvers, means for swinging said side rails about the axis of said shaft, means for supporting said shaft on a fixed axis while the shaft is rotated and while said side rails are swung including bearing means adapted to be secured to the building upon which the awning is mounted and pivotally supporting said awning about said axis, a weather seal element extending from said building above and spaced from said axis, and a louver element rotatably mounted to swing about said axis and interposed between said axis and said weather sealing element, said elements having yielding and sliding contact, one of said elements having an arcuate portion in contact with the other struck from said axis as a center.

2,592,580
PROCESS OF PREPARING IRON OXIDE FROM FERROUS CHLORIDE
Hirsch Loevenstein, New York, N. Y., assignor to The Nitralloy Corporation, a corporation of Delaware
No Drawing. Application February 9, 1945, Serial No. 577,139
6 Claims. (Cl. 23—200)

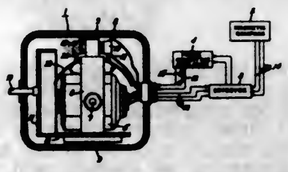
3. The process of preparing finely divided ferric oxide which comprises evaporating a ferrous chloride solution until all water is removed except water of crystallization, thereafter dehydrating the resulting ferrous chloride polyhydrate salt until all water except one mol of water of crystallization is removed therefrom, then heating the ferrous chloride monohydrate so produced in air and in the absence of water vapor at a temperature within the range 45°–300° C. to produce therefrom ferric oxide and dry hydrochloric acid gas, and recovering the iron oxide and the HCl, the latter being obtained in dry form.

2,592,581
METHOD AND APPARATUS FOR POSITIONING STRIP
Edwin T. Lorig, Ross Township, Allegheny County, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application January 13, 1950, Serial No. 138,389
13 Claims. (Cl. 271—2.6)



1. Apparatus for automatically centering a moving object comprising a rotatable roll over which the object passes, said roll having a plurality of flexible projections on its outer periphery arranged on both sides of a transverse central plane, said projections being undercut and inclined radially toward the axis of the roll away from the said transverse central plane.

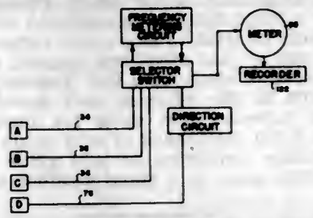
2,592,582
TORQUE MOTOR FOR GYROSCOPES
John E. Lundberg, Swampscott, and Harry G. Swanson, Belmont, Mass., assignors to General Electric Company, a corporation of New York
Application April 17, 1950, Serial No. 156,304
18 Claims. (Cl. 74—5.41)



1. A torque actuated system comprising a movable structure, an electrical energy source, a torque exerting device having a member which extends to apply forces directly to said structure responsive to signals from said source, means coupling energy from said source to said device when said member is retracted, means for interrupting said coupling by said coupling means to cause de-energizing said device when said member moves beyond predetermined limits of travel, and means for retaining said member in a retracted position upon de-energizing of said device.

2,592,583
RECORDING TIDE CURRENT METER
Waldo K. Lyon, San Diego, Calif.
Application May 24, 1949, Serial No. 95,135
4 Claims. (Cl. 73—189)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A system of measurement of tidal current velocity comprising a plurality of water current-electric current transducing units positioned at different levels in a tidal current in the same relative area, each of said units generating an alternating current control voltage of a frequency directly proportional to the velocity of said tidal current, a circuit responsive to the control voltage generated by each of said transducing units and adapted to change the pulses of the current generated by said transducing units to direct current of a magnitude proportional to the frequency of the pulses, a meter responsive to the output of



said circuit and means to conduct in sequence the alternating current control voltages generated by each transducing unit to said circuit and the output of said circuit to said meter.

2,592,584
WHEEL STRUCTURE
George Albert Lyon, Detroit, Mich.
Application June 28, 1949, Serial No. 101,726
10 Claims. (Cl. 301—37)



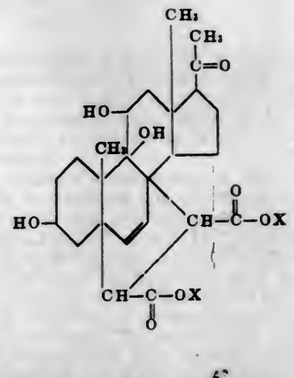
1. In a wheel structure including a multi-flange tire rim having a base flange, a wheel body formed from a sheet metal stamping having at its outer periphery a plurality of generally axially outwardly extending cover retaining extensions, the outer periphery of the wheel body being secured to the base flange of the tire rim with said cover retaining extensions projecting axially outwardly beyond the outer margin of the base flange for retaining engagement by a wheel cover.

2,592,585
CORN MILLING TEST
Majel M. MacMasters, Peggy Baird, and Carl E. Rist, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application March 14, 1951, Serial No. 215,620
3 Claims. (Cl. 73—432)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In the process of treating corn by industrial milling processes, the step which comprises subjecting a representative sample of seed corn to a millability test comprising bisecting by cutting kernels of seed corn longitudinally perpendicular to the broad face of the kernels and exposing the cut surface of the kernels to an aqueous solution of 2,3,5-triphenyltetrazolium chloride for ½ to 2 hours, whereby millability of said sample is indicated by the appearance of a pink to carmine-red coloration of at least the plumule and mesocotyl region, including the adventitous root buds, and the entire midsection of the scutellum of said germ.

2,592,586
TRIHYDROXY STEROID ADDUCTS
Paul E. Marlatt, Arthur R. Hanze, A Vern McIntosh, Jr., and Robert H. Levin, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application February 16, 1951, Serial No. 211,442
12 Claims. (Cl. 260—397.1)

1. A compound selected from the group consisting of (*a*) 3,9,11-trihydroxy-5,7-pregnadien-20-one 5,8-maleic acid adduct and (*b*) di-alkali-metal salts thereof, said compounds having the formula:



wherein X is selected from the group consisting of hydrogen and an alkali metal.

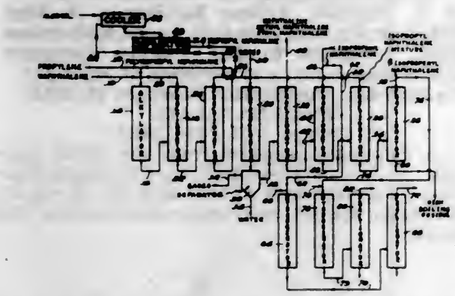
2,592,587
LIGHT STABLE PHENOLIC SYNTANS
Daniel E. Nagy, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 9, 1949, Serial No. 109,428
6 Claims. (Cl. 260—45.95)

1. A tanning agent which comprises an aqueous solution of a light-unstable phenolic syntan, which has undergone substantially no darkening of its initial color, containing from about 1% to about 10% by weight of a vegetable tannin liquid extract, based on the resin solids content of said aqueous solution, said phenolic syntan being of the sulfonated phenol-formaldehyde condensation product type.

2,592,588
CASHEW OIL CONDENSATION AND POLYMERIZATION IN THE SHELL
Clarence T. Nemir, Washington, D. C., assignor to K. N. H. Corporation, Washington, D. C., a corporation of Delaware
No Drawing. Application October 29, 1948, Serial No. 57,411
8 Claims. (Cl. 260—17.2)

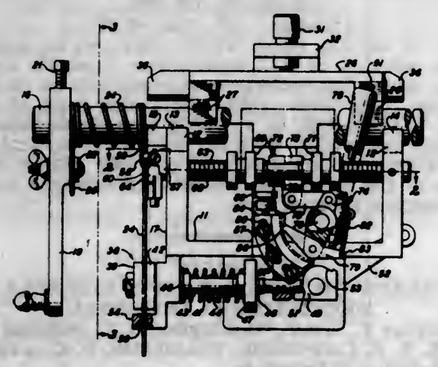
1. A molding compound, comprising cashew nut shell as the filler and the resinous material comprising the naturally occurring oils of the cashew nut shell reacted in situ to an intermediate stage of polymeric growth.

2,592,589
PRODUCTION AND SEPARATION OF ISOMERIC ISOPROPYLNAPHTHALENES
Joseph E. Nickels, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application July 8, 1948, Serial No. 37,549
5 Claims. (Cl. 260—671)



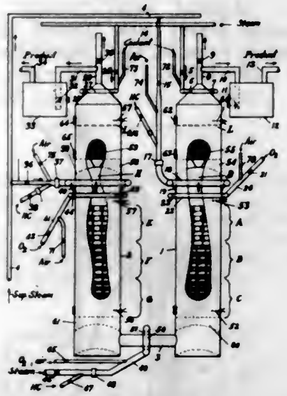
1. A process of producing substantially pure alpha- and beta-isopropyl naphthalenes from a mixture thereof such as is obtained by: alkylating naphthalene under high pressure in the presence of an excess of propylene in liquid phase at a temperature of 150° to 300° C. in the presence of an activated alumina-silica catalyst comprising: dehydrogenating the mixture of alpha- and beta-isopropyl naphthalenes non-destructively to produce a mixture of alpha- and beta-isopropenyl naphthalenes, distilling the mixture to separate alpha- and beta-isopropenyl naphthalenes and separately hydrogenating the alpha- and beta-isopropenyl naphthalenes to recover respectively alpha- and beta-isopropyl naphthalenes, and purifying the alpha- and beta-isopropyl naphthalene products separately by distillation

2,592,590
SPRING WINDING APPARATUS
Charles R. Oberg, San Diego, Calif.
Application October 20, 1949, Serial No. 122,563
8 Claims. (Cl. 153—67)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



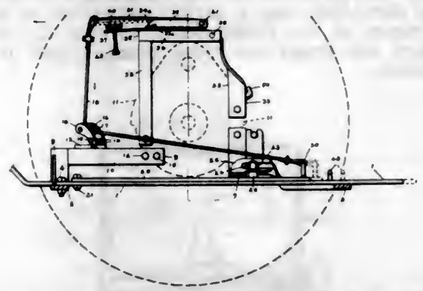
1. A spring winding apparatus comprising a frame adapted to receive mandrels of different diameters for winding spring wire thereon; a guide member mounted on said frame for back and forth movement substantially parallel to the axis of the mandrel and having a face adjacent the mandrel surface disposed to press against the wire wound on the mandrel in a direction parallel to the mandrel and away from said frame, thereby to determine the spacing between the coils of a wire spring being wound on the mandrel; a limit member mounted to said frame substantially parallel to said guide member, limit stops on one of said members adapted to be selectively spaced along said one member; a stop dog secured to the other of said members and extending between said stops for limiting the back and forth movement of said guide member and a handle connected to said guide member to selectively move said guide member back and forth.

2,592,591
MANUFACTURE OF COMBUSTIBLE GAS
William W. Odell, New York, N. Y.
Application August 29, 1949, Serial No. 112,898
15 Claims. (Cl. 48—196)



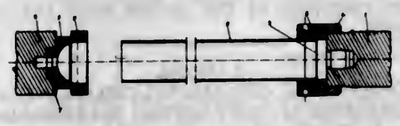
1. The process of making combustible gas in cycles in a gas-making set comprised of twin generators A and B connected at the bottom adapted for the flow of a fluid through them serially in either sequence each of which generators has a deep substantially continuous pervious bed of refractory solids disposed in a zone below the top zone thereof, which process includes the cycle of steps comprising, establishing hot zones having temperatures in the approximate range of 1300 to 2200° F. in the beds of said refractory solids in A and B by initiating combustion of a fluid fuel in a combustion chamber of said generator A above the bed of refractory solids therein passing the hot products of combustion down through the latter bed with increasing intimacy of contact with the refractory solids thereof and up through the bed in B with decreasing intimacy of contact with the refractory solids thereof, then making said combustible gas by passing a gasiform stream initially comprising a mixture of an oxidant including superheated steam and a fluid hydrocarbon fuel downwardly through the deep bed in A from above with increasing intimacy of contact with the thus heated refractory solids therein and upwardly through the bed in B with decreasing intimacy of contact with the heated refractory solids therein, and discharging the gas thus made from above the latter bed substantially free from suspended carbon, said refractory solids being so disposed in each generator that they afford increasing contact surface per unit of volume progressively downwardly whereby the variation in intimacy of contact of gas and solids is obtained.

2,592,592
DRAFT DEVICE FOR INCREASING THE LOADING ON TRACTOR WHEELS
James L. O'Neill, Macedon, N. Y.
Application February 17, 1949, Serial No. 77,027
3 Claims. (Cl. 180—1)



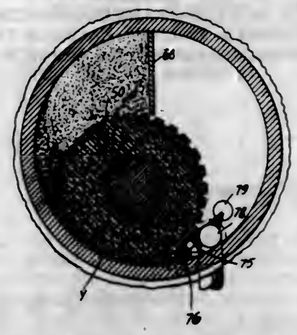
3. In a tractor having tractor wheels and the assembly of a framework, housing and power mechanism and an axle connecting the tractor wheels to the said assembly, in combination, a drawbar to which a load is attached, means pivotally securing the drawbar to said assembly, means for increasing the loading on the tractor wheels and axle on the forward movement of the tractor, said means including a cable drawn rearwardly at one end by the drawbar and the load attached thereto and secured to the rearward portion of said drawbar, a blade spring pivotally mounted on said housing above the axle and extending forward of the axle, the other end of said cable being attached to the forward end of said spring and being adapted to draw the forward end of the spring down, a stop for arresting the downward movement of said spring whereby loading on the axle is increased, means securing said stop to said housing, and a pulley on said housing around which the intermediate part of the cable travels.

2,592,593
MACHINE FOR CONSTRICTING TUBES
Oreste Flavio Alfred Biginelli, Clermont-Ferrand, France; vested in the Attorney General of the United States
Application May 7, 1948, Serial No. 25,694
In France September 19, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires September 19, 1960
3 Claims. (Cl. 111—52)



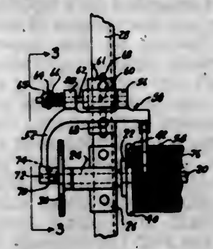
1. In a machine for constricting the end of a tube, a frame, a non-rotary chuck mounted on said frame to slide along its axis, means for moving said chuck on the frame, a rotary die centered on the axis of the chuck, means for driving said die rotatively about its axis, means for preventing any axial movement of said rotary die, and a stationary annular die centered on the axis common to the chuck and the rotary die disposed ahead of and in the immediate vicinity of said rotary die for receiving and centering the end of the tube, said stationary die being slightly constricted interiorly toward the rotary die for starting and causing a constriction of the tube end as it passes through said stationary die and opposing rotation of the tube by frictional engagement therewith upon entering and being acted upon by the rotary die, thus reducing the torsional stresses imparted to the tube body through the action of the rotary die.

2,592,594
METHOD OF AND MACHINE FOR TREATING FIBROUS OR CELLULOSIC MATERIAL
Peter N. Ottersland, Watertown, Napoleon Rigabar, Carthage, and Edward S. Lansing, New York, N. Y., assignors to Taylor Refiner Company, Inc., Watertown, N. Y., a corporation of New York
Application October 27, 1948, Serial No. 56,692
4 Claims. (Cl. 241—28)



1. The method of treating fibrous pulp material which consists of forcibly feeding moistened material downwardly under heavy pressure into a gradually decreasing nip formed between a slowly rotating feeding member and rapidly rotating abrading member, and exerting heavy pressure on the mass of material as it passes downwardly through the nip, said members being rotated in a direction to feed the material disposed therebetween downwardly, the pressure on the material being released immediately below the nip.

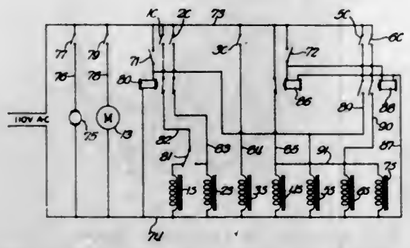
2,592,595
TENSION BRAKE DEVICE
Carrel Leonard Patterson, Danville, Va., assignor to Dan River Mills, Incorporated, Danville, Va., a corporation of Virginia
Application March 22, 1948, Serial No. 16,168
3 Claims. (Cl. 242—156)



1. In a device for effecting uniform tensioning of a continuous material being pulled off a spool which includes a rotatable mounting for a spool, a friction plate mounted for rotation therewith, and a bifurcate member mounted on an axis adjacent the mounting with one arm positioned to follow the unwound material and the other brake arm positioned to apply axial pressure to said friction plate a radial distance from the axis of said plate proportioned to amount of material left on the spool, means effective to shift the relation of

pressure application to the axis of the plate to a position wherein the brake arm is urged toward the center of the plate by the rotation of the plate which comprises a shiftable mounting for said bifurcate mounting movable in a direction toward and away from the axis of rotation of said friction plate, and means to lock said mounting in a predetermined position wherein for any particular direction of rotation of said plate, the point of pressure application is positioned where a directional movement component is toward the plane lying in the axis of the plate and the axis of the bifurcate member.

2,592,596
JET ACTION WASHING MACHINE
Wilbert L. Pengelly, Portland, Oreg.
Application August 24, 1945, Serial No. 612,482
19 Claims. (Cl. 68—23)

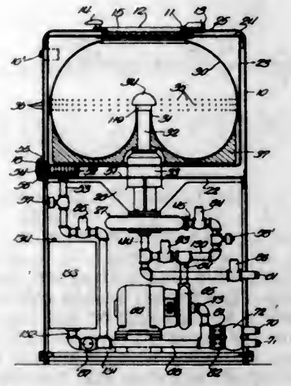


1. In a washing machine, a tub, a vertical tubular member in said tub, a high pressure source of water connected with said tubular member, a circular basket having a raised central portion with inside, bottom and outside walls forming a smooth, annular channel in said basket concentric with said tubular member, and an agitator for agitating material supported in water in the basket without rubbing comprising a plurality of nozzles mounted on said tubular member and disposed in a circle above the raised central portion of said basket and all directed downwardly substantially tangentially to said circle for discharging high pressure jets of water downwardly along the inner walls of the basket to rotate the contents of the basket in regular vertical circulatory motion and to advance said contents around the basket from one jet to the next.

7. A washing machine comprising a tub, a spinner basket mounted on a hollow vertical shaft extending through the bottom of said tub, a nozzle head in said basket on the upper end of said shaft, a hydraulic turbine operatively connected with said shaft for rotating said shaft, a pump, a fresh water supply pipe, piping connections including said pump between said supply pipe and said hollow shaft for filling said tub with fresh water through said nozzle head, piping connections from said tub through said pump and hollow shaft for pumping water from said tub through said hollow shaft and nozzle head, and piping connections from said tub through said pump and turbine for driving said turbine from said pump with water drained from said tub.

2,592,597
JET ACTION WASHING MACHINE
Wilbert L. Pengelly, Portland, Oreg.
Application May 8, 1946, Serial No. 668,193
7 Claims. (Cl. 68—23)

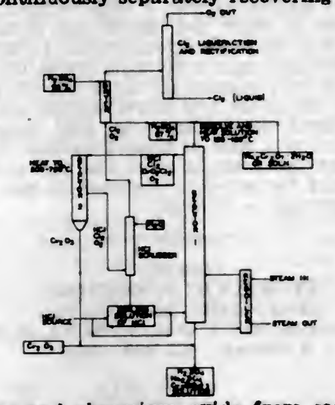
1. In a washing machine, a tub, a washing and centrifuging basket in said tub, a turbine having driving connection with said basket, a pump for circulating water through said tub in a washing operation and for driving said turbine in a centrifuging operation, a switch responsive to water pressure in said tub for initiating a washing operation, a time controlled switch for terminating the washing operation and initiating a centrifuging operation, and a switch responsive to water pressure at the pump outlet to stop the pump when the water has been pumped out of the system.



7. A washing machine comprising a tub, a vertical hollow shaft in said tub, a washing and centrifuging basket mounted on said shaft for rotation in the bottom of the tub for centrifuging in the space occupied by the wash water in a washing operation, a nozzle head on the upper end of said shaft arranged to direct water jets into said basket, a turbine having driving connection with said shaft to rotate said basket, a fresh water inlet, a tub drain, a pump, pipe connections from the inlet of said pump to said fresh water inlet and said tub drain, pipe connections from the outlet of said pump to said hollow shaft and said turbine, valves in said pipe connections for supplying said pump with water from said fresh water inlet or from said tub drain and for directing the outflow from said pump either to said nozzle head through said hollow shaft or to said turbine to spin said basket, and a tank connected with the pipe connection between the inlet of said pump and said tub drain to receive water from the tub when the tub is drained and then supply said water to the pump and turbine for continued operation of the turbine after the tub is drained.

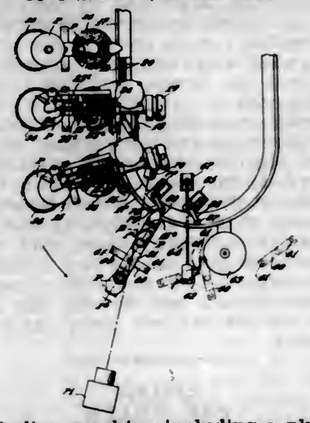
2,592,598
PROCESS FOR OBTAINING CHLORINE AND CHROMIUM CONTAINING MATERIALS
Tom S. Perrin, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware
Application April 7, 1949, Serial No. 85,958
6 Claims. (Cl. 23—219)

1. The integrated continuous method for producing chlorine, oxygen, and chromium compounds, which includes the steps of continuously mixing sulfuric acid and alkali metal bichromate, heating said mixture to a temperature within the range of 120° to 160° C., passing hydrogen chloride in contact with said mixture to form a second mixture comprising chlorine, chromyl chloride, and oxygen, heating said second mixture to the decomposition temperature of chromyl chloride to decompose said chromyl chloride to solid chromium oxide, gaseous oxygen, and chlorine, and continuously separately recovering chlorine,



oxygen, and chromium oxide from said second mixture.

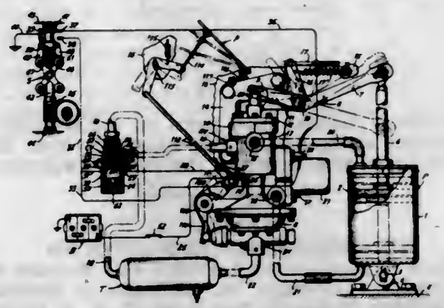
2,592,599
WINDING MACHINE
Winthrop L. Perry, Milford, N. H., assignor, by mesne assignments, to Abbott Worsted Mills, Incorporated, Wilton, N. H., a corporation of New Hampshire
Application February 24, 1950, Serial No. 146,022
33 Claims. (Cl. 242—32)



1. A winding machine including a plurality of winding units, the machine being constructed for travel of the units in a path comprising opposite straight portions connected by curved end portions, each winding unit being constructed to unwind thread from magazined supply packages and including a rotatable double package carrier for holding two packages, one in an outer and the other in an inner location on the winding unit, and a device arranged at a curved end portion of the path to there rotate a package carrier of a passing unit, to reverse the position of the package carrier.

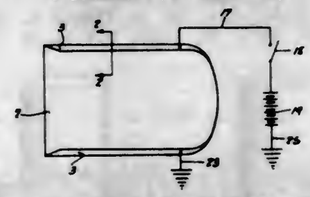
2,592,600
FLUID-ACTUATED SERVOMOTOR CONTROL VALVE SYSTEM
Glenn T. Randol, Fort Lauderdale, Fla.
Application June 9, 1947, Serial No. 753,545
19 Claims. (Cl. 121—38)

1. In combination with a fluid servomotor having a reciprocable element and a source of fluid pressure therefor different from atmosphere, a reversing valve means comprising a valve element movable to two operative positions for alternately connecting the source with opposite sides of the motor reciprocable element, means for placing said valve element in one of its operative positions to connect one side of the motor element to the source and thereby cause said motor element to move from a first position to a second position, means operable by the motor element when in the second position for placing said valve element in its other operative position to thereby connect the other side of the



motor with the source and cause the motor element to return to its said first position, a reciprocable member for resetting the valve element, manually-controlled means for causing the member to reset the valve element, a control valve means between the source and the reversing valve means, electrical means including an electrical circuit for controlling the control valve, and means operable by the movement of the reciprocable member when resetting the valve element for controlling the electrical circuit to cause closing of the control valve means.

2,592,601
TRANSPARENT ELECTROCONDUCTIVE ARTICLE AND METHOD FOR PRODUCING THE SAME
Richard F. Raymond, Saxonburg, and Brook J. Dennison, Brackenridge, Pa., assignors to The Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application February 5, 1948, Serial No. 6,484
6 Claims. (Cl. 117—54)

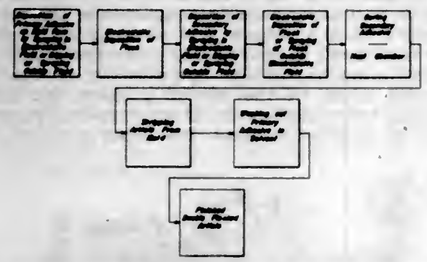


1. A method of providing a base with a transparent electroconductive coating which comprises heating the base at a temperature above about 600° F. but below the temperature at which the base melts, and coating a hot surface thereof with an aqueous solution of cadmium bromide and a peroxide.

2,592,602
PROCESS OF PRODUCING FLOCKED ARTICLES
Walter R. Saks, Forest Hills, N. Y.
Application September 20, 1950, Serial No. 185,799
22 Claims. (Cl. 154—76)

1. A process of producing a flocked article comprising depositing a primary adhesive on a

mold form, electrostatically depositing and embedding flock fibers in said primary adhesive, depositing a secondary adhesive on the fibers,

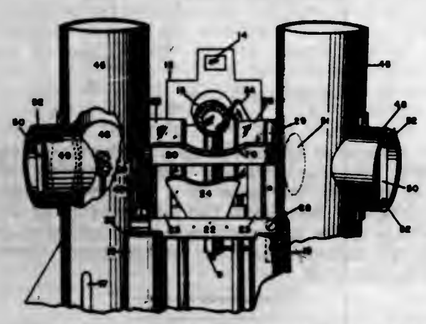


depositing further flock fibers on the secondary adhesive, stripping the flocked article from the mold form, and removing the primary adhesive.

2,592,603
RE-FORMING NAPHTHA STOCKS
Robert A. Sanford, Park Forest, and Bernard S. Friedman, Chicago, Ill., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Application November 1, 1950, Serial No. 193,509
10 Claims. (Cl. 196—50)

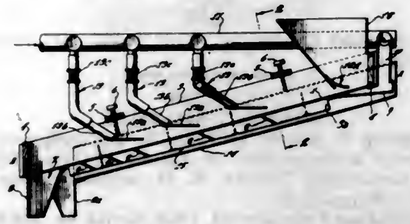
1. In the reforming of hydrocarbon naphtha stocks, the method of subjecting the naphtha stock to a temperature of about 950° to 1150° F. in the presence of a high area-activated carbon catalyst which contains about 1 to 10 per cent of an alkaline compound of an alkali metal at a liquid hydrocarbon space velocity of about 0.5 to 3.0 and under a pressure of about 0.1 to 1 atmosphere, and recovering hydrocarbons in the gasoline range from the reaction mixture.

2,592,604
APPARATUS FOR INTRAORAL PHOTOGRAPHY
Carl A. Schlack, United States Navy, Upper Darby, Pa., and Barney L. Taylor, United States Navy, Garrett Park, Md.
Application December 15, 1948, Serial No. 65,498
4 Claims. (Cl. 95—11)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



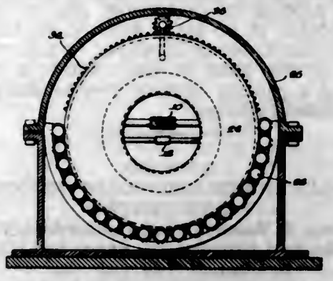
3. Apparatus for mass intra-oral photography adapted to provide consecutive exposures of the reflected lower dental arch, upper dental arch, and anterior teeth, upon a film strip from which prints of proper viewing aspect may be obtained without cutting the film strip or rearranging the consecutive order of the frames, comprising supporting means, a vertically disposed frame removably mounted on said supporting means for alignment with a camera, and a mirror shaped to enter the mouth and secured to said frame at an angle intermediate the horizontal and vertical, said removable frame being invertible on said support for consecutively photographing the lower and upper dental arches in proper aspect on a film strip, said supporting means having a pair of spaced sockets therein, said frame including pins at the top and bottom thereof for selective insertion in said sockets by inverting said frame.

2,592,605
HYDRAULIC SCREENING
Amos Searles, Scranton, Pa.
Application May 7, 1948, Serial No. 25,539
8 Claims. (Cl. 209—269)



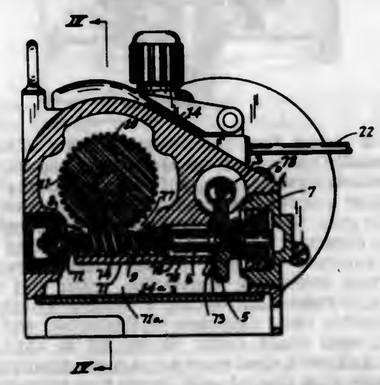
1. A separator comprising, in combination, an inclined continuous screen, an inclined continuously accessible trough beneath the screen into which the wash water and screened material pass directly from the screen, and thin inclined deflectors disposed at intervals beneath the screen, said deflectors extending laterally throughout the width of the screen and having their upper edges in contact with the screen, with surfaces sloping downward from the upper edges toward the introductory end of the separator and terminating so as to present their lower edges against the flow in the trough sufficiently above said trough to permit the lower part of said flow to pass underneath said edges, but to divert the upper portion of said flow upward and through the screen to apportion the flow between upper and lower parallel streams.

2,592,606
BAR MILLER
Theodore S. See, Hammond, Ind., and Horace A. Frommelt, Milwaukee, Wis., assignors to La Salle Steel Company, Chicago, Ill., a corporation of Delaware
Application February 10, 1948, Serial No. 7,375
4 Claims. (Cl. 90—11)



1. A machine for milling metal articles other than rounds, said machine comprising a plurality of stands, each of said stands including a cutter having a longitudinal axis, a cooperating guide roll mounted to engage a surface of said work opposite from said cutter and having a longitudinal axis, means for rotatably driving said cutter and roll about said axes, and means for simultaneously angularly adjusting the longitudinal axes of the cutter and roll and driving means therefor to predetermined positions throughout an arc of 180°.

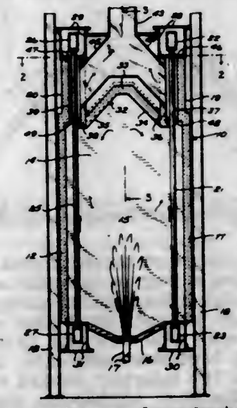
2,592,607
WIRE FEED GEAR TRAIN LUBRICATION
Arthur P. Shepard, Flushing, N. Y., assignor to Metallizing Engineering Co. Inc., Long Island City, N. Y., a corporation of New Jersey
Application October 5, 1946, Serial No. 701,586
6 Claims. (Cl. 184—11)



1. For use in a heat-fusible material spray gun of the wire feed type, the combination which comprises a wire feed gear train including a wire feed drive shaft worm gear, a countershaft, a driving gear at one end of said countershaft and a worm at the other end of said countershaft for engagement with said worm gear and extending to each side of the area of engagement with said worm gear, means defining a housing for said gear train, a substantially stationary tubular member around said worm, extending to adjacent said countershaft driving gear in spaced relation thereto and defining with at least the major portion of said worm a forced liquid lubricant feed between the end portions of said countershaft, an opening in said tubular member for worm gear engagement with said worm, said housing defining a fluid lubricant chamber in open communication with the intake end and the discharge end of said tubular member, thereby providing a circulating forced feed lubrication system in said gun.

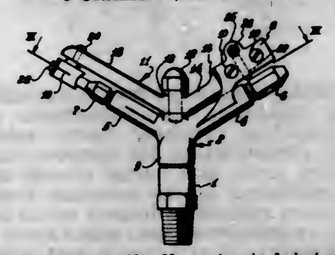
2,592,608
HEATER
Tracy H. Sherman, South Nyack, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Application December 1, 1945, Serial No. 632,159
6 Claims. (Cl. 122—356)

5. In heating apparatus for heating fluids, a furnace chamber, a plurality of generally vertically extending tubular members adjacent the inner periphery of said chamber and in spaced relationship thereto, means forming a narrow generally horizontally extending gas passage, said passage comprising a side wall coextensive with only a part of said inner periphery, the side wall being positioned opposite and substantially parallel to and in spaced relationship with said inner periphery and the tubular members, and being disposed on the furnace chamber side of the tubular members, a bottom wall at the bottom of the passage extending between said inner periphery of said enclosing wall and said side wall and in fluid-tight relationship therewith thereby closing the space between said periphery and the side wall in a fluid-tight manner, and a top wall at the top of the passage extending between said inner periphery of said enclosing wall and said side wall and in a fluid-tight relationship therewith thereby closing the space between said periphery and the side wall at the top of the passage in a fluid-tight manner, said passage being open at at least one end thereof to provide a gas inlet opening for the passage in communication with the furnace chamber, means



for producing a stream of products of combustion which flows generally vertically and mainly in radiant heat exchange relationship with the portion of the tubular members in said furnace chamber, gas outlet means for the heating apparatus in communication with said gas passage so as to receive gases after flow thereof from said gas inlet opening through the passage, the point of communication of the gas outlet means with said passage being horizontally spaced longitudinally of the passage from the gas inlet opening such distance that the gases flow from said inlet opening to said outlet means in a generally horizontal direction in the passage transversely of mainly in convection heat exchange relationship with the portion of the tubular members in said horizontal gas passage, the gases in the passage flowing in a generally horizontal direction.

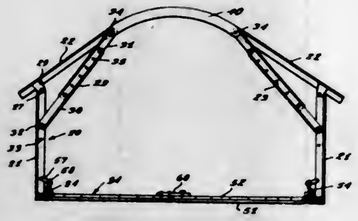
2,592,609
MAGNETICALLY CONTROLLED ROTARY WATER SPRINKLER
Clifton B. Shoemaker, Glendora, Calif.
Application December 3, 1948, Serial No. 63,318
9 Claims. (Cl. 299—69)



1. In an automatically actuated, intermittently rotatable sprinkler, having a rotatable nozzle

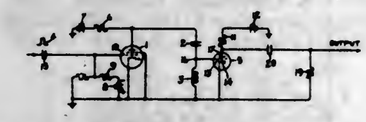
member and an actuating vane member pivotally mounted thereon, the provision of: magnet means carried by one of said members and cooperating armature means carried by the other of said members for restoring said members into a desired position; and adjustable stop means limiting relative motion of said members in another position for determining rate of incremental rotation of said nozzle member.

2,592,610
PREFABRICATED FOLDING BUILDING
Grover M. Shumaker, Euclid, Ohio
Application June 24, 1947, Serial No. 756,586
4 Claims. (Cl. 189—2)



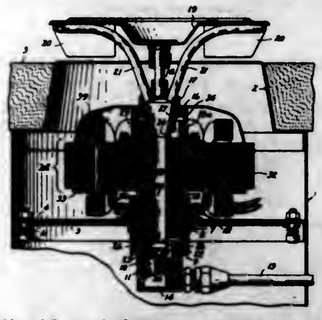
1. In a prefabricated building unit, a pair of uprights forming a pair of laterally spaced side walls, said uprights having horizontal bases at their lower ends, an individual floor section associated with each side wall and extending laterally inwardly from said side walls, means separably securing the laterally inward ends of the floor sections together, connecting means pivoting the laterally outward ends of said floor sections to said uprights to swing relative thereto on horizontal axes extending longitudinally of the side walls, said connecting means comprising bars extending transversely beneath the floor sections having offset outer ends positioned over the bases of the uprights, rods secured to said offset ends and extending along the bases, standards rising from said bases inwardly of said uprights between which said bars are positioned, and links extending between said standards and said uprights and overlying said rods confining said rods in the space between the uprights and standards.

2,592,611
DELAYED PULSE GENERATOR
Harry Simon, Baldwinsville, and Joseph P. Gleason, Syracuse, N. Y., assignors to General Electric Company, a corporation of New York
Application September 29, 1950, Serial No. 187,584
5 Claims. (Cl. 250—27)



1. In combination a series resonant circuit comprising an inductance and a capacitance, a normally inoperative switching device connected across said circuit, means for operating said device to shock excite said circuit thereby to produce an oscillation at the resonant frequency thereof, means responsive to said oscillation for generating an impulse delayed with respect to the time of excitation of said circuit, and means responsive to said oscillation to restore said switching device to its condition prior to said operation.

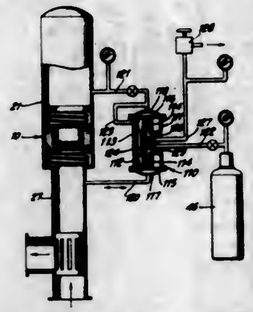
2,592,612
ROTARY FUEL FEEDER FOR FLAME RING BURNERS
William J. Smith, Jr., Bay Village, Ohio, assignor to Cleveland Steel Products Corporation, Cleveland, Ohio, a corporation of Ohio
Application August 2, 1947, Serial No. 765,665
14 Claims. (Cl. 103—100)



1. A liquid fuel feeder comprising a support, an axially elongated, upright, open top cup rigidly mounted on said support and including means defining a vertically disposed bearing sleeve within the cup, the upper end of said bearing sleeve being disposed below the upper open end of the cup, whereby the cup defines a liquid retaining reservoir extending above the upper end of said sleeve, a rotor comprising a vertical shaft and a distributor head attached to the upper end of the shaft, said shaft being journaled in said sleeve with sufficient clearance to at least accommodate a continuous film of said liquid fuel therebetween from top to bottom of the bearing surfaces thereof, and said rotor having an axial passage therethrough opening at its lower end to the interior of the cup adjacent the bottom thereof and extending above the upper end of said bearing surface, said head having means defining delivery passages connected to said axial passage and extending above the upper end of the cup and outwardly therefrom, whereby liquid flowing through said delivery passages from said axial passage is accelerated by centrifugal force upon rotation of said shaft and head, a supply conduit connected to said cup for delivery of liquid fuel into the cup and said axial passage, means operative to drive said rotor intermittently, means for feeding liquid fuel through said supply conduit into the cup at a rate sufficient to maintain a level of liquid in the cup adjacent the upper end of said sleeve for keeping the sleeve substantially submerged during rotation of said shaft, and means for limiting reverse flow of liquid fuel out of said cup through said supply line, whereby a volume of liquid sufficient to substantially submerge said bearing surface is retained in said cup when said rotor is stationary.

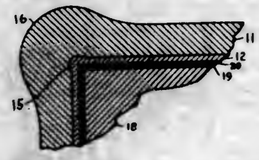
2,592,613
SELF-COMPENSATING ACCUMULATOR
Robert E. Snyder, Pasadena, Calif., assignor to Snyder Oil Tool Corporation, Los Angeles, Calif., a corporation of California
Application June 7, 1947, Serial No. 753,176
22 Claims. (Cl. 138—31)

18. In a hydro-pneumatic accumulator for absorbing surges in a hydraulic system, the combination of: means forming a gas chamber having a movable wall and adapted to be connected in a hydraulic line to place said wall in contact with the fluid in said line whereby said wall will move in response to differentials in pressure between the gas in said chamber and the fluid in said line to balance the same; means including a separatory member movable independently of said movable wall forming two compartments of variable volume, one of which is fluid connected to said gas chamber; and duct means communi-



cating the other of said compartments with said hydraulic system and being resistant to high velocity flow therethrough whereby to attenuate sudden pressure variations passing to said separatory member and subject said member principally to the average working pressure in said hydraulic system.

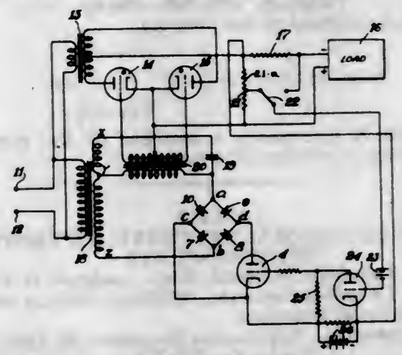
2,592,614
METHOD OF MAKING TUBULAR METALLIC WAVE GUIDES
William B. Stoddard, Jr., Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application January 8, 1946, Serial No. 639,871
13 Claims. (Cl. 204—9)



1. Method of making tubular metallic wave guides, which comprises: forming a fusible metallic core; treating the core in a solution characterized by the presence of an acid radical containing a metal chosen from the class consisting of vanadium, chromium, molybdenum and tungsten; electrolytically forming thereover a layer of copper; electrodepositing thereover a layer of silver; electrodepositing a layer of nickel over said silver layer; fusing the core in situ and removing the core metal; cleaning out residual core metal; and thereafter chemically dissolving the copper layer in a strongly ammoniacal solution of divalent copper to leave the inner surface of the wave guide clean and smooth.

2,592,615
CURRENT SUPPLY APPARATUS
John R. Stone, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 19, 1949, Serial No. 111,199
12 Claims. (Cl. 321—40)

2. In a rectifier having a grid-controlled gaseous discharge tube and energizing circuits therefor, a regulator comprising a phase shifting circuit having means to derive an alternating potential having two components with displaced phase relation, means to vary the magnitude of one of the components, said latter means comprising a plurality of asymmetrically conducting varistors connected as a full wave bridge and having input vertices and a positive and negative output vertex, a thermionic discharge tube having an anode, cathode and grid, means to connect the positive and negative output vertices of the said varistor



bridge to the said anode and cathode, respectively, means to apply the said alternating potential to the grid of the gaseous discharge tube, means to derive a signal voltage varying in accordance with the output of the gaseous discharge tube, and means to impress the said signal voltage on the grid-cathode circuit of the said thermionic discharge tube.

2,592,616
PROCESS OF TREATING NYLON
Louis L. Stott, Reading, Pa., and Laurence R. B. Hervey, West Concord, Mass., assignors, by direct and mesne assignments, to The Polymer Corporation, Reading, Pa., a corporation of Pennsylvania
No Drawing. Application May 26, 1949, Serial No. 95,587
12 Claims. (Cl. 260—33.4)

1. The process of dissolving synthetic linear polyamides normally soluble in phenol and normally insoluble in methyl alcohol which comprises forming a mixture consisting of said polyamide with substantially anhydrous methyl alcohol, placing said mixture in a closed oxygen-free system and heating said mixture under pressure to a temperature sufficient to dissolve said polyamide, said temperature and pressure being above the boiling point of said methyl alcohol, and cooling said solution to precipitate said polyamide, said polyamide being one which is normally soluble in phenol and normally insoluble in methyl alcohol and being one which on hydrolysis with hydrochloric acid yields material selected from the group consisting of (*a*) amino acid hydrochloride; and (*b*) mixtures of diamine hydrochloride and dibasic carboxylic acid.

2,592,617
S-(ETHYLXANTHOYL) PIPERIDYL THIOPHOSPHORIC CHLORIDE
Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware
No Drawing. Application December 30, 1950, Serial No. 202,765
1 Claim. (Cl. 260—293.4)

S-(ethylxanthoyl) piperidyl thiophosphoric chloride.

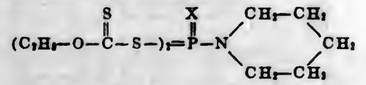
2,592,618

BIS(ETHYLXANTHOYLTHIOXY) - PIPERIDYL-PHOSPHINE OXIDES AND SULFIDES

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 30, 1950, Serial No. 203,774
3 Claims. (Cl. 260—293.4)

1. A compound of the formula



wherein X represents a member of the group consisting of oxygen and sulfur.

2,592,619

O-ETHYL S-(ETHYLXANTHOYL) PIPERIDYL THIOPHOSPHATE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 30, 1950, Serial No. 203,776
1 Claim. (Cl. 260—293.4)

O-ethyl S-(ethylxanthoyl) piperidyl thiophosphate.

2,592,620

ETHYLXANTHOYLTHIOXY-PIPERIDYL-CYANOPHOSPHINE OXIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 30, 1950, Serial No. 203,777
1 Claim. (Cl. 260—293.4)

Ethylxanthoylthioxy-piperidyl-cyanophosphine oxide.

2,592,621

ETHYLXANTHOYLTHIOXY-DIPIPERIDYL-PHOSPHINE SULFIDE

Henry Tolkmith, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application December 30, 1950, Serial No. 203,779
1 Claim. (Cl. 260—293.4)

Ethylxanthoylthioxy - dipiperidyl - phosphine sulfide.

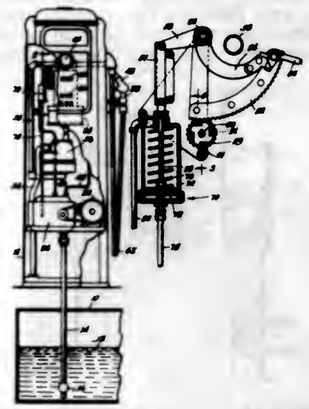
2,592,622

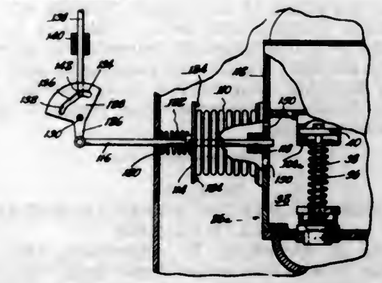
LIQUID DISPENSER WITH REGISTER HAVING DISPENSING MEANS OPERATIVE ONLY AFTER A TIME INTERVAL ELAPSES FOLLOWING COMPLETED ZERO SETTING OF REGISTER

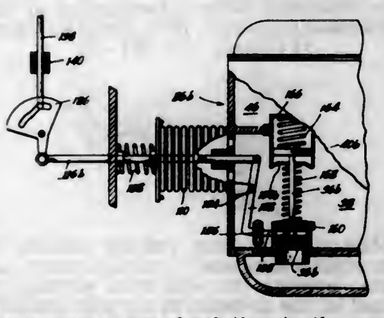
Richard R. Trexler, Evanston, Ill.

Application April 3, 1946, Serial No. 659,299
20 Claims. (Cl. 222—33)

1. A liquid dispensing apparatus comprising a dispensing line adapted to be connected to a source of liquid supply, means for establishing pressure on liquid in said line, means for controlling the flow of liquid through the dispensing line, register mechanism operable in accordance with the flow of liquid through the dispensing line, resetting means for the register mechanism, and common control means for effecting the operation of the register resetting means and the liquid flow control means in response to actuation of said pressure establishing means, said common control means including mechanism for effecting the operation of the flow control means







in predetermined timed relation to the completion of the operation of the register resetting means.

2,592,623

PRIMER ASSEMBLY FOR ARTILLERY AMMUNITION

Norman K. Turnbull, Pitman, N. J.

Application February 16, 1948, Serial No. 8,707
3 Claims. (Cl. 102—38)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In an artillery cartridge case containing propellent powder, means for firing said propellent powder comprising, a plurality of longitudinally aligned percussion caps spaced from each other with the rearmost one located in the case base, a plurality of plunger rods each of which individually is mounted for longitudinal movement between a successive pair of caps and each of which has at its rear end a blind axial cavity which is disposed so as to be in direct communication with the cap immediately behind it in order that the explosive gases issuing from the neighboring cap will collect in the cavity of the adjacent plunger rod and thus maximize the longitudinal force exerted on the rod, and a powder charge associated with said caps in easy communication with said propellent powder, the various components being so related that detonation of the percussion cap in the case base releases fire which ignites the powder charge and also releases gas which drives an adjacent one of the plunger rods forwardly against the next cap in line, this action successively being transmitted throughout the line of caps so as to set fire to the easily communicable propellent powder in a number of places almost simultaneously and thereby substantially to ignite that powder en masse.

2,592,624

CUTTING OIL CONCENTRATE AND METHOD OF MAKING SAME

Franklin Veatch and John G. Partch, Cleveland, Ohio, assignors to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application September 28, 1946, Serial No. 700,174
6 Claims. (Cl. 252—45)

3. The reaction product of "motor polymer" and sulfur monochloride reacted at a temperature below 50° C. in the presence, from the beginning of the reaction, of a paraffin oil diluent and a substantially anhydrous alkaline base not readily reactive with sulfur monochloride under the reaction conditions, said "motor polymer" being added in increments to a mixture of said sulfur monochloride and said diluent, and said base being present at all times in the reaction mixture in molal excess of the amount of sulfur monochloride reacting with the "motor polymer" to neutralize by-product hydrogen chloride as fast as it is formed, said product being clear, light-colored and substantially free from free chlorine and loosely bound chlorine.

5. A cutting oil comprising a hydrocarbon oil having a cutting oil viscosity and containing the "motor polymer"-sulfur monochloride reaction product defined in claim 3 in an amount to improve the cutting properties of said hydrocarbon oil.

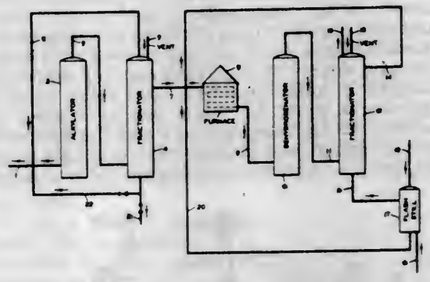
2,592,625

PRODUCTION OF ALKYL QUINOLINES AND ALKENYL QUINOLINES

Cary R. Wagner, Utica, Ohio, assignor to Phillips Petroleum Company, a corporation of Delaware

Application June 14, 1949, Serial No. 98,977
16 Claims. (Cl. 260—283)

11. A continuous process for the production of an alkenylquinoline which comprises passing a mixture of an olefin hydrocarbon and quinoline comprising quinoline in molecular excess into contact with a solid alkylation catalyst of the silica-alumina type at a tempearture within the range of approximately 400° to approximately 700° F., recovering unreacted quinoline and recharging it together with additional amounts of olefin hydrocarbon to the alkylation catalyst, separating alkylated quinoline from the alkylation reaction product and subjecting it to dehydrogenation in the presence of a solid dehydrogenation catalyst at a temperature within the range of approximately 800° to approximately 1200° F., separating undehydrogenated alkylquinoline from the product of the dehydrogenation reaction and recharging it to the dehydrogenation catalyst, and separating and recovering the alkenylquinoline from the product of the dehydrogenation reaction.

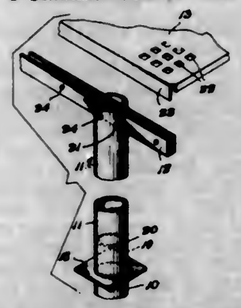


2,592,626

PORTABLE PIER

Ivan J. Wanless, Chevy Chase, Md., assignor of one-fifth to Sol B. Wiczer, Washington, D. C.

Application November 5, 1947, Serial No. 784,255
8 Claims. (Cl. 61—48)



2. A knock down pier comprising leg posts detachably resting on foot blocks, said leg posts being radially slotted at the upper ends to receive and support removably fastened channel members, channel members comprising side supports mounted in said slots, and a plurality of deck boards having downturned flanges removably received in said side channels.

2,592,627

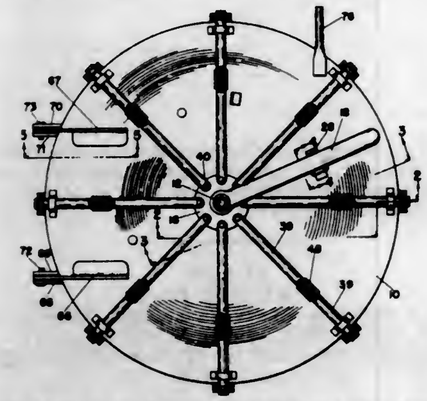
PRESSURE VESSEL CLOSURE

Arthur J. Ward, Washington, D. C.

Application February 11, 1946, Serial No. 646,944
1 Claim. (Cl. 220—57)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

In a closure device for a cylindrical pressure vessel having a plate cover, a rim sealing mechanism for said vessel, said mechanism comprising a disc-like wrist-plate, means pivotally mounting said wrist-plate on the top central surface of said plate cover, a plurality of radially movable arms, means pivotally connecting said arms at one end to the rim of said wrist-plate for radial movement of a predetermined distance and having on the

other end an upwardly facing inclined cam surface extending along said arm a distance equal to said predetermined distance, a handle, means rigidly attaching said handle to said wrist-plate so that movement of said handle projects and retracts said arms radially of said cover, a convexly curved rim on said vessel, a flexible annular gasket mounted on the underside of said cover for engaging said curved rim, a plurality of guide brackets, means respectively affixing each of said brackets on said cover for receiving each of said arms, a plurality of roller brackets, said roller brackets comprising a plate having a pair of spaced upstanding lugs for mounting a roller therebetween, means securing each of said roller brackets to said vessel, means aligning each of said roller brackets



with each of said arms whereby the cam surface of said arms engages said rollers and moves through said predetermined distance to secure said cover to said vessel, and means for locking said handle and arms in the radially projected position, said locking means comprising a pair of spaced depending lugs formed integral with said handle, a spring operated latch having a detent in one end thereof, means mounting said latch between said lugs, an angle arm operating as a keeper for said latch secured to said cover whereby said handle is locked in a fixed closed position when the detent of said latch engages the upstanding portion of said angle arm thus precluding the possibility of forcible dislodgment of said cover because of excessive pressure in said vessel.

2,592,628

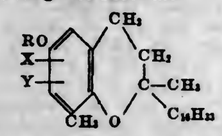
TREATMENT OF NONALPHA TOCOPHEROLS

Leonard Weisler, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 27, 1949, Serial No. 123,986

12 Claims. (Cl. 260—333)

8. As a new chemical compound, a formylated tocopherol having the formula



wherein R is a member selected from the class consisting of hydrogen and acyl groups, X is a formyl group and Y is a member selected from the class consisting of hydrogen, methyl groups and formyl groups.

2,592,629

FORMYLATING AND REDUCING NONALPHA TOCOPHEROLS

Leonard Weisler, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 27, 1949, Serial No. 123,987

15 Claims. (Cl. 260—333)

1. The method of making biologically active material which is readily reducible to material having enhanced vitamin E biological activity which comprises iminomethylating and hydrolyzing tocopherol material normally possessing relatively low vitamin E biological activity and having at least one aromatic hydrogen atom on the benzenoid nucleus, said iminomethylating being effected by reacting said tocopherol material with hydrogen cyanide and a hydrogen halide in the presence of a metal salt, said iminomethylating and hydrolyzing being effective to replace said aromatic hydrogen atom with a formyl group.

2,592,630

FORMYLATING TOCOPHEROL MATERIAL

Leonard Weisler, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application October 27, 1949, Serial No. 123,988

17 Claims. (Cl. 260—333)

1. The method of making biologically active material which is convertible by reduction to material having high vitamin E biological activity which comprises reacting tocopherol material normally possessing relatively low vitamin E activity and characterized by having at least one aromatic hydrogen atom on the benzenoid nucleus with a trihalomethane and an alkaline material, and hydrolyzing the product of said reaction, said reacting and hydrolyzing being effective to introduce at least one formyl group on the nucleus of said tocopherol material in a position normally occupied by said aromatic hydrogen atom.

2,592,631

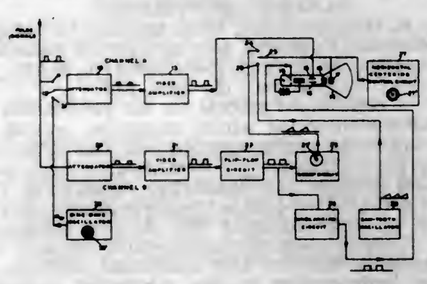
PULSE ANALYZER

Everard M. Williams and Edwin V. Cousy, Dayton, Ohio

Application July 31, 1944, Serial No. 547,474

4 Claims. (Cl. 175—183)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A system for determining the pulse repetition frequency of pulse signals, comprising a cathode ray tube having horizontal and vertical deflecting plates, means to transform said pulse signals into operating pulses of given duration whose leading edges are synchronous with the leading edges of said pulse signals, said given duration being independent of said pulse signals, a horizontal sweep circuit, means utilizing said operating pulses to operate said sweep circuit in synchronism with the said operating pulses, means for generating a periodic voltage, means for applying said periodic voltage to said vertical deflecting plates, means to continuously vary the frequency of said periodic voltage until a stationary vertical trace appears on the screen of said cathode ray tube, and means for indicating the frequency of said periodic voltage.

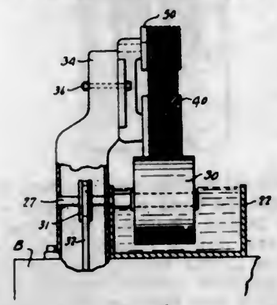
2,592,632

APPARATUS FOR TREATING YARNS

Ollie L. Williamson, Danville, Va., assignor to Dan River Mills, Incorporated, Danville, Va., a corporation of Virginia

Application April 23, 1948, Serial No. 22,872

5 Claims. (Cl. 118—234)



1. In an apparatus for treating thread with a liquid, a supply tank for treating solutions, a driven dip roll partially immersed in said solution, and a pair of rolls freely rotatable on axes parallel to said dip roll, one of said pair of rolls having a resilient surface in rolling contact with the dip roll, the other of said pair of rolls having a plurality of spaced peripheral grooves increasing gradually in depth from end to end, said dip roll being driven in a direction whereby a series of successive loops of thread being treated originating at the shallowest of said grooves may be passed in contact with said dip roll in varying states of decreasing tension to the deepest of said grooves.

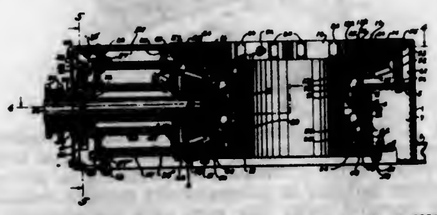
2,592,633

ROTARY TABLE

John Hart Wilson, Wichita Falls, Tex.

Application August 17, 1945, Serial No. 610,972

10 Claims. (Cl. 255—23)



1. In a rotary table for driving well-drilling equipment, the combination of a housing, a rotatable table mounted in the housing and having an axial opening therethrough, said rotatable table including a surrounding ring gear, a drive shaft mounted in the housing and having a gear thereon in driving relation with the ring gear, bearing means for journaling the drive shaft, said housing having a recess forming a lubricant sump therein surrounding the lower portion of the shaft-carried gear, a co-axial, annular, spring-pressed oil seal ring in cooperating sealing relationship with the peripheral upper portion of the rotatable table, a second oil seal ring positioned in cooperating sealing relation with a lower portion of said rotatable table above the normal oil level in the sump and in communication therewith, and spring means pressing said second ring axially against said lower portion of the rotatable table, and means forming a passage for directing lubricant from the sump radially outwardly through a portion of the table to said first named oil seal ring upon the operation of the gear therein to maintain the sealing relation thereof with respect to the rotatable table.

5. In a rotary table for well-drilling equipment, the combination of a housing, a table mounted in said housing for rotation about a vertical axis and having an axial opening therethrough for receiving a drill stem, a drive shaft rotatably mounted in said housing and gear means operatively connecting said shaft with the table for rotating said table, means for rotating said drive shaft, an annular toothed member on said drive shaft, a pawl movably mounted within said housing adjacent said annular toothed member in position to be engaged with and disengaged therefrom for locking and releasing the turning movement of said shaft, a top wall for said housing, a recess formed in the upper surface of said top wall, an opening in the bottom of the recess; a pawl-controlling lever pivotally mounted on said housing adjacent the bottom of said recess, extending through said opening, and having a manipulating end swingable to and fro within the recess from one end thereof to the other depending upon the engaged or disengaged position of the pawl; a handle freely pivoted at one end to the said end of said lever, said handle being of substantially the same length as that of the recess to fit snugly therein when the lever is in one or the other of its end positions; whereby the handle, the lever, and the controlled pawl are locked in pawl-engaged or pawl-disengaged position.

8. In a rotary table installation for well-drilling equipment, the combination of a housing, a rotatable table having an axial opening therein for receiving a drill stem therethrough, means for driving said table, said axial opening in the table being substantially square in cross-section at least at the upper portions thereof, a drive bushing of similar square section received within the walls of said square portion of the opening, the side walls of the bushing proper and of the square portion proper of the opening in the table being spaced a short distance apart to provide a narrow peripheral clearance space, renewable metal wear and shock plates disposed within said clearance space flatwise and parallel with the wall portions to which they are respectively adjacent, said plates being removably secured to one of said walls and in bearing relationship with respect to the adjacent wall upon the opposite side of said clearance, rubber-like cushioning plates disposed behind said wear plates between the latter and the wall to which they are secured, whereby the metal wear plates backed by the rubber-like cushioning plates serve to maintain resilient contact between the table and the drive bushing, to absorb shock, and to compensate for wear.

10. In a rotary table installation for well-drilling equipment, the combination of a rec-

tangular housing having top, side, and end walls, a table mounted in said housing for rotation about a vertical axis and having an axial opening therein for receiving a drill stem, means for driving said table, a framework within said housing for affording a sturdy supporting means for said table, said framework comprising a table-surrounding member spaced inwardly from the side and end walls of the housing and comprising a cylindrical portion having upper and lower horizontal flanges extending radially outwardly from said cylindrical portion throughout at least the major portion of the circumference of said portion, whereby there is provided an annular, outwardly-flanged, channel structure, vertically disposed plate-like reinforcing webs welded to and extending radially outwardly from circumferentially spaced points on said cylindrical portion and also welded at their outer ends to the side and end walls of the housing, bearings for said table, and means on said cylindrical portion for supporting said bearings.

2,592,634

CONCRETE SLAB WALL JOINT

John Hart Wilson, Wichita Falls, Tex.

Application August 17, 1945, Serial No. 610,973
1 Claim. (Cl. 72—107)



A building structure comprising pre-formed concrete slabs assembled in edge-to-edge relationship, metallic reinforcing elements embedded in each of said slabs and extending to points adjacent the edges thereof, an elongated tubular member extending along an edge of one of said slabs and anchored thereto by being welded to a metallic reinforcing element, said tubular member being partially embedded in the edge of said slab and partially protruding therefrom, the protruding portion registering with and entering a concave longitudinally extending groove provided in the adjoining edge of an adjacent slab to form a tight joint between the slabs, said tubular member being provided with transversely bored threaded openings and the adjacent slab having openings therein registering with said holes in the tubular member, and threaded securing elements, each positioned in one of the openings in said adjacent slab and threadedly engaging in the corresponding opening in said tubular member binding the slabs securely together.

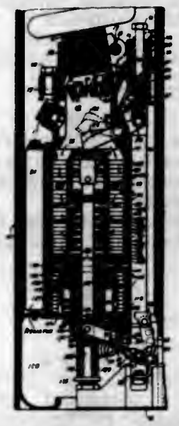
2,592,635

CIRCUIT INTERRUPTER

Winthrop M. Leeds and Robert E. Friedrich, Pittsburgh, Pa., and Francis J. Fry, Champaign, Ill., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Continuation of application Serial No. 514,366, December 15, 1943. This application February 5, 1948, Serial No. 6,436
11 Claims. (Cl. 200—150)

1. In a circuit interrupter, an arc extinguishing unit, a pressure-generating contact disposed adjacent a first end of the unit and cooperable with an intermediate contact to establish a pressure generating arc adjacent the first end of the unit, a lower movable contact movable adjacent the other or second end of the unit and cooperable with the intermediate contact to establish an interrupting arc adjacent the second end of the unit, a piston chamber disposed adjacent the second end of the unit, a piston member operable within the piston chamber, fluid passage means interconnecting the pressure-generating arc with the interrupting arc so that pressure generated at the former arc may be effective to force fluid



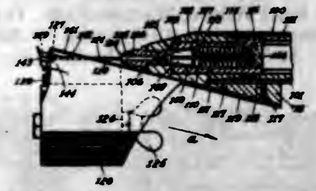
against the interrupting arc to effect the latter's extinction, second fluid passage means interconnecting the piston chamber with the pressure-generating arc, spring means, a flange member biased by the spring means for movement with said lower movable contact toward open circuit position, and a lost motion connection between the flange member and the piston member arranged to actuate the piston member in timed sequence with respect to the opening movement of said lower movable contact.

2,592,636

RIVETING GUN AND MAGAZINE THEREFOR

John Aherne-Heron, Farnham Common, Buckinghamshire, England, assignor to Aviation Developments Limited, Welwyn Garden City, Herts, England, a joint-stock company of England

Application February 24, 1948, Serial No. 10,407
In Great Britain January 6, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires January 6, 1959
7 Claims. (Cl. 218—19)



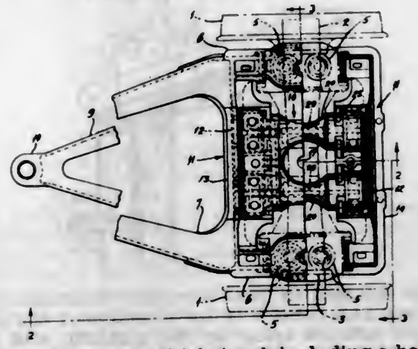
1. A riveting gun having a mandrel-receiving bore extending along the gun axis, said gun being provided with a magazine including a storage member holding in substantially parallel relation and parallel with the gun axis a plurality of tubular rivets each mounted on a separate mandrel with an enlarged head, feed means for carrying a rivet and its associated mandrel in the storage member from a position laterally displaced from the gun axis to a position in axial alignment with said mandrel-receiving bore, means for moving said axially aligned mandrel into said bore through the end thereof, means for engaging the mandrel when positioned within said bore to apply a tractive force thereto and to move the mandrel head axially to upset the rivet, there being an abutment on said gun positioned to provide a counter-pressure upon the rivet while the mandrel head is being moved axially to upset the rivet.

2,592,637

CENTERING DEVICE FOR ENGINE TRUCKS

Thomas H. Ainsworth, Drexel Hill, Pa., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application September 29, 1948, Serial No. 51,755
3 Claims. (Cl. 105—174)



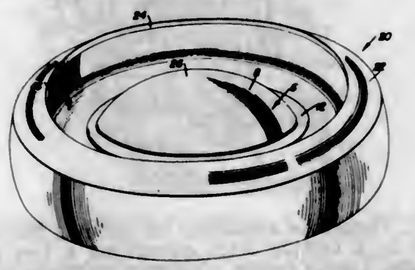
1. In a railway vehicle truck including a bolster and a frame having opposing portions, a top roller plate on the underside of the bolster and a bottom roller plate on the frame, a pair of rollers mounted between said plates and between said frame portions and providing for relative movement of the frame and bolster transversely of the truck, individually detachable links at the ends of said rollers adjacent the frame portions and extending from one roller to the other, and elongated pins rotatably journalled in said links and rollers and extending substantially from one frame portion to the other with both ends of each pin opposing said frame portions and thereby being retained in position to maintain the rollers and links in assembly.

2,592,638

FEEDER FOR LIVESTOCK OR POULTRY

Harry A. Andrew, Grand River, Iowa

Application May 2, 1950, Serial No. 159,558
2 Claims. (Cl. 150—0.5)



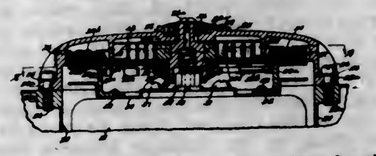
1. A device of the class described comprising a concavo-convex filler insert having a marginal rim, said rim having an outstanding annular flange and an outstanding annular bead, said bead and flange forming an intervening channel, a pneumatic tire casing substantially surrounding and enclosing said insert, one beaded wall of said tire casing being snugly snapped and fitted into the channel and joining the insert and tire casing together in defining a receptacle.

2,592,639

OUTBOARD MOTOR STARTING DEVICE

Daniel A. Armstrong and Herald K. Palmer, Minneapolis, Minn., assignors to Scott-Atwater Manufacturing Company, Minneapolis, Minn., a partnership

Application September 6, 1945, Serial No. 614,792
9 Claims. (Cl. 123—185)



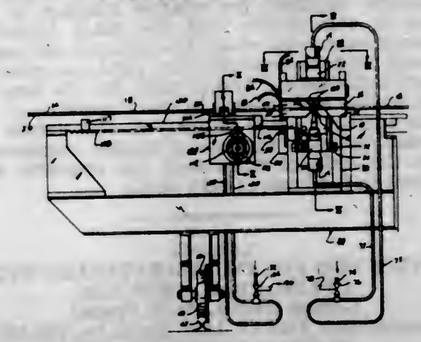
1. A structure including a motor having a crankshaft having in combination, a fly-wheel secured to said crankshaft, a stationary member surrounding said crankshaft, a casing secured to said member above said fly-wheel, a shaft secured in said casing and disposed coaxially with said crankshaft, said shaft having a shoulder thereon, a pulley journaled on said shaft and supported on said shoulder, said pulley having a peripheral groove adapted to receive a cable, a cable wound on said pulley and secured at one end thereto, adapted to be pulled to rotate said pulley, a spring for turning said shaft and pulley in one direction, said spring being disposed partially in the plane of said pulley whereby a very compact structure is provided and means connecting said pulley to said crankshaft when said pulley is rotated by said cable.

2,592,640

FLASH REMOVING APPARATUS

Reuben Bailis, Philadelphia, Pa.

Application May 3, 1949, Serial No. 91,080
2 Claims. (Cl. 51—56)



1. Apparatus for removing flash from the weld seam of butt-welded sheets, said apparatus including a supporting frame, a first carriage slidably mounted on said frame, opposed, upper and lower rotary cutters carried by said first carriage, actuating means carried by said frame and operatively connected to said carriage for moving the same and said cutters longitudinally of the weld seam joining adjacent sheets, a fixed lower jaw carried by said frame adjacent the path of movement of said cutters, an upper jaw, means pivotally mounting said upper jaw for movement about a horizontal axis normal to

said path of movement, actuating means operatively connected to said upper jaw for moving it towards, and away from said lower jaw to clamp or release said sheets, a second carriage carried by said frame, a fixed, lower, auxiliary jaw carried by said second carriage, an upper auxiliary jaw, means pivotally mounting said auxiliary upper jaw for movement about a horizontal axis normal to said path of movement, means operatively connected to said auxiliary upper jaw for moving it towards, and away from, said lower auxiliary jaw to clamp or release said sheets, means operatively connected to said second carriage for moving it toward and away from, and transversely of, said seam, to bring successive weld seams into registration with the path of movement of said cutters, and adjustable stops associated with said second carriage and said frame for limiting the transverse movement of said second carriage and said auxiliary jaws and the sheets clamped there between to a distance equal to the distance between successive seams to insure proper registration of successive seams with the axes of rotation of said cutters.

2,592,641

JOINT STRUCTURE FOR PIVOTED TOOLS

Edward Balderstone, Oakford, Pa., assignor to The S. S. White Dental Manufacturing Company, a corporation of Pennsylvania

Application December 29, 1945, Serial No. 637,861
2 Claims. (Cl. 32—62)



2. An implement of the class described, comprising a pair of opposed jaw members having their outer surfaces rounded transversely and being relatively movable about a common axis, a headed pintle extended through alined apertures therein, one having a recess affording a retaining shoulder for relative rotation of the head of said pintle, and the other having a tapered recess into which the opposite end region of said pintle is expanded into rigid non-rotating relation therewith, and a cover for the head of said pintle, conforming to the curvature of the outer surface of said implement, and tightly expanded radially into non-rotatable engagement with the walls of said recess, but rotatable with respect to the head of said pintle.

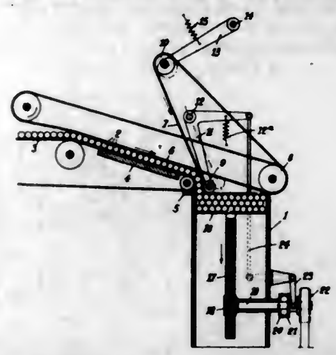
2,592,642

DEVICE FOR FILLING RECEPTACLES WITH CYLINDRICAL ARTICLES

Gérard Bardet, Paris, France

Application July 18, 1945, Serial No. 605,669
In France December 7, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires December 7, 1963
5 Claims. (Cl. 214—6)

1. An arrangement for the filling of containers with a large number of similar articles in superposed layers, comprising a packing chamber assuming throughout its height an unvarying cross-sectional shape, a horizontal platform slidingly fitted inside said chamber and forming a vertically adjustable bottom for the latter, means for controlling the lowering movement of the platform, means for feeding the articles independently of one another into the chamber to allow said articles to drop in succession with their axes lying horizontally over the inlet end of the platform, to roll over the latter and to form a horizontal layer thereon, said feeding means including a conveyor belt carrying the articles and feeding them to the corresponding end of the chamber, an endless belt covering the articles lying over a section of the first belt leading to the inlet of the packing chamber and extending beyond same over the upper end of the packing chamber, and means for constraining the two belts to advance at a uniform speed, the speed of the two belts being always equal and of same direction, a



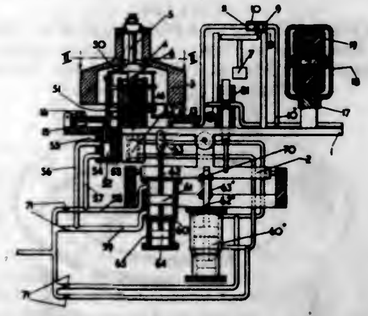
feeler adapted to pivot around a horizontal stationary axis parallel to the direction of the axes of the articles lying on the platform and engaging the foremost article of a layer moving under the pressure of the succeeding articles and submitted to the horizontal thrust of said foremost article, and means whereby said feeler controls the platform-lowering means to lower said platform each time the feeler has receded to the end of its allowed path corresponding to the arrival of said foremost article at the end of the chamber opposed to the inlet point of the platform thereof.

2,592,643

GYROSCOPE

Jeffery Walton Barnes, Farnborough, England

Application November 2, 1945, Serial No. 626,362
In Great Britain May 16, 1942
11 Claims. (Cl. 74—5.34)



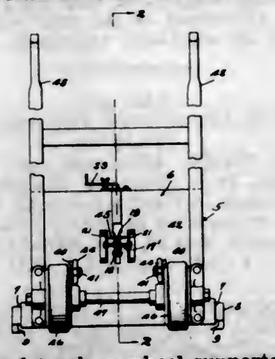
1. Gyroscope apparatus for defining the vertical in a moving craft comprising a free gyroscope, a servo system, a member stabilised by said free gyroscope and servo system, gravity controlled erecting means for the free gyroscope, a second gyroscope mounted to receive precessing torque from the craft during turning movement of the craft, and means controlled by said second gyroscope for applying compensating force to said erecting means in opposition to the disturbing centrifugal force which acts on said erecting means during turning movement of the craft.

2,592,644

HAND TRUCK

Ralph G. Bartlett, Lakeland, Fla.

Application April 10, 1950, Serial No. 155,111
4 Claims. (Cl. 214—65.5)



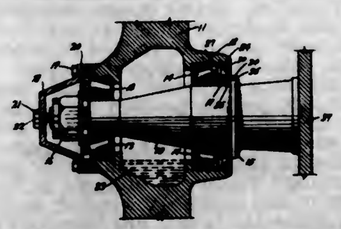
1. In a hand truck, a wheel supported frame, a housing mounted on the frame, a pair of sliding load supporting arms operating through openings in the side of the housing, a pair of pivoted actuating arms removably connected to the load supporting arms, operating means for said arms, said operating means embodying a pair of slidably connected inner and outer plates, ears extending from the plates, pivoted links connecting the ears of the outer plate with the actuating arms, pivoted plates connecting the ears of the inner sliding plate with the actuating arms, means for adjusting the sliding plates with respect to each other adjusting the initial positions of the actuating arms, and a foot lever connected with the inner sliding plate by means of which the actuating arms are operated, moving the load supporting arms into and out of their supporting positions.

2,592,645

MEANS FOR SEALING FLUID LUBRICANT IN THE HUB OF A ROTATING ELEMENT

Allan J. Kayser, Denver, Colo., assignor of fifty per cent to Maurice L. Kurland, forty per cent to Grace K. Israel, and ten per cent to Rosalind L. Kayser, all of Denver, Colo.

Application June 2, 1950, Serial No. 165,729
5 Claims. (Cl. 301—123)



1. A sealing device for sealing a wheel hub to an axle, comprising: a stationary metallic ring adapted to fit over an axle at the inner face of a hub; an annular, peripheral flange surrounding and projecting radially outward from said ring to substantially close the inner end of said hub; a resilient ring having an external cylindrical surface lying against, and rotating with, the inner surface of said hub; and a flaring resilient skirt on the inside of said resilient ring extending inward toward said metallic ring and outward into resilient contact with said flange.

2,592,646

REGENERATION AND PRECONDITIONING OF A METHANETHIOL SYNTHESIS CATALYST

Richmond T. Bell, Grays Lake, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

No Drawing. Application October 7, 1948, Serial No. 53,380
9 Claims. (Cl. 252—416)

1. The method of regenerating a catalyst which has accumulated a deposit of carbonaceous and other generally inhibitory substances by long exposure to reaction conditions in the synthesis of methanethiol from methyl alcohol and hydrogen sulfide which comprises, burning off foreign materials from the catalyst in an oxidizing atmosphere at a temperature at least 25° C. below the sintering temperature of the catalyst, subjecting the catalyst to an atmosphere of methyl alcohol vapor, maintaining the catalyst in said atmosphere for a period of 0.2 to 2.0 hours at a temperature about 50° to 150° C. below operating temperature for the methanethiol synthesis operation, thereby to regenerate the catalyst, eliminate its induction period and condition its surface for further use.

2,592,647

LOCKING MECHANISM FOR VEHICLE DOORS

James J. Black, Cincinnati, Ohio, assignor, by mesne assignments, to Trailmobile Inc., a corporation of Delaware

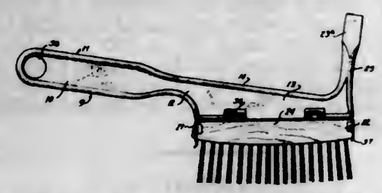
Application June 8, 1945, Serial No. 598,365
2 Claims. (Cl. 292—218)



1. In a locking mechanism for fastening a door relative to a door frame, the locking mechanism being adapted to cooperate with an angular keeper slot formed within the door frame, said locking mechanism comprising, a rotatable rod having a radially extended operating handle, a locking head constituting a cylinder having flat inner and outer ends, the locking head being fixed upon an end of the rotatable rod and adapted to be rotated thereby, a locking stud extending from the outer end of the locking head, the locking stud having an axis parallel with the axis of the rotatable rod and spaced radially therefrom to provide a crank motion upon rotation of the locking head, and a journal member for the locking head, the journal member consti-

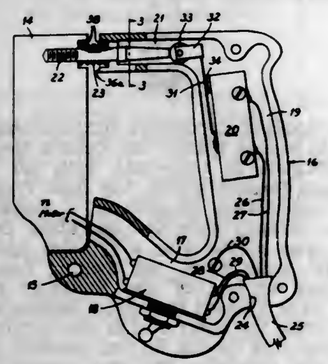
tuting a bottom flange and a cylindrical side wall, the bottom flange engaging the inner end of the locking head to support the locking head and rotatable rod axially, the cylindrical side wall surrounding the locking head and providing a journal supporting the locking head radially, whereby the rotatable rod may be installed within a door with the journal member and locking head residing flush with the edge of the door and with the locking stud extending outwardly in a position to enter the angular keeper slot of a door frame and provide a locking engagement therewith when the locking head is rotated in a locking direction.

2,592,648
COMBINATION WELD CLEANING AND CHIPPING TOOL
John W. Bowers, Wallingford, Pa., assignor to The Fibre-Metal Products Company, Chester, Pa., a corporation of Pennsylvania
Application February 19, 1948, Serial No. 9,454
2 Claims. (Cl. 15—105)



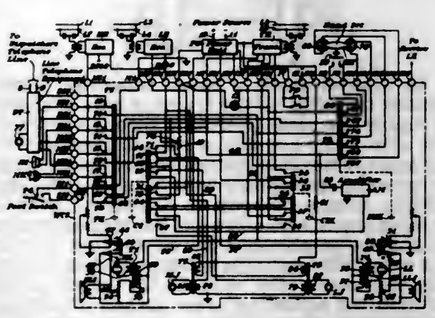
1. In a combination weld cleaning tool of the kind described, a handle, an extension on said handle, said handle and extension comprising a web and a peripheral bead, a pair of abutments integral with said extension and arranged in a plane substantially normal thereto, a pair of brackets removably carried by said abutments, means on said brackets to clampingly and detachably secure a wire brush therebetween, and a chisel member constituting an integral continuation of the peripheral bead on said extension.

2,592,649
SWITCH STRUCTURE FOR MOTOR-DRIVEN TOOLS
Newell Brackett, Bala-Cynwyd, Pa., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application January 26, 1950, Serial No. 140,731
3 Claims. (Cl. 172—36)



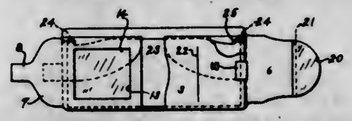
1. In a portable electric tool having a casing and a motor therein, a substantially U-shaped grip, a hinged connection between the casing and one leg of the U, a guide pin on the casing, the other leg having an opening therein aligned with the pin, a motor-controlling switch in the grip having an operating lever aligned with the pin and adapted to be operated by the pin as the grip is rotated in one direction about the said hinged connection, resilient means interposed between the said other leg and the casing and urging the grip in one direction, and stop means on the casing cooperating with the grip and limiting the movement of the grip relative to the housing to an oscillatory movement.

2,592,650
CONTROL APPARATUS FOR TELEPHONE SYSTEMS
Edgar W. Breisch, Edgewood, and George W. McKenna, Penn Township, Allegheny County, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application May 26, 1948, Serial No. 29,346
4 Claims. (Cl. 179—2.5)



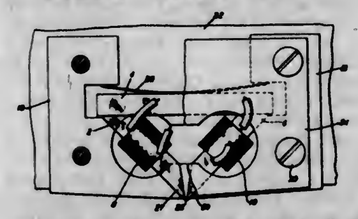
1. In combination, line telephone equipment including means for using a voice frequency telephone current and having connections to a line circuit, carrier inductive telephone equipment including a carrier receiver and a carrier transmitter and coupled to a transmitting channel, said carrier receiver including a demodulator which is effective to demodulate a given carrier telephone current, said carrier transmitter including an oscillator and a modulator which are effective for supplying said given carrier telephone current, a head set having a telephone receiver, a microphone, a transformer having a first and a second primary winding and a secondary winding, a circuit controller having contacts which may be closed at either a first and a second position, circuit means including contacts of said controller closed at said first position to connect said head set and microphone to said line telephone equipment, other circuit means including contacts of said controller closed at said second position to connect said head set to said carrier receiver and said first primary winding in multiple and to connect said microphone to said carrier transmitter and said second primary winding in multiple, a first jack connected to said secondary winding, and a second jack connected to said line telephone equipment, said first and second jacks enabling a cord circuit connection to be made between the line telephone equipment and said transformer whereby said head set and microphone can be used with said carrier inductive telephone equipment alone or used with said carrier telephone equipment and the conversation repeated to said line circuit through said transformer and said jacks with their cord circuit connection.

2,592,651
STITCHLESS FLEXIBLE POCKET RECEPTACLE
Douglas J. Broughton, Springfield, Mass., assignor to Buxton, Incorporated, Springfield, Mass., a corporation of Massachusetts
Application February 14, 1946, Serial No. 647,523
1 Claim. (Cl. 150—38)



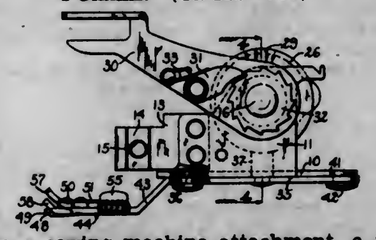
In a billfold having a rear wall and a panel member extending from the lower edge of said rear wall and folded onto the inner face of the rear wall, an end closure flap extending from the end of said panel member which is adjacent the end of the billfold, a flap member extending from that edge of the panel member which is opposite the edge along which the panel member is attached to the rear wall, and being folded downwardly between the panel member and the rear wall, said flap member having a tongue extending from the end thereof which is adjacent the end of the billfold, said tongue being of less extent than said end closure flap, said last-named flap and said tongue being folded around the end of the billfold and onto the outer face of the rear wall, said tongue being positioned between the end closure flap and the rear wall with its free end positioned short of the free end of the end closure flap and means securing that portion of the end closure flap lying beyond the free end of said tongue, to the rear wall of the billfold, said means comprising a narrow straight sided tongue extending from the free end of the closure flap and through a single slot formed in the rear wall and rivet means positioned beyond said slot and rigidly securing said straight sided tongue to the inner face of the rear wall.

2,592,652
MAGNETIC TRANSDUCER HEAD
Frederick G. Buhrendorf, Westfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 18, 1950, Serial No. 144,958
2 Claims. (Cl. 179—100.2)



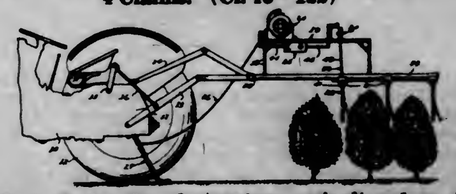
2. A magnetic head comprising a first non-magnetic plate, a second non-magnetic plate removably attached to said first plate, a magnetic core fixedly positioned between said first and second plates, and means between said first and second plates for supporting said core, said core including three pole-pieces, two of said pole-pieces comprising pole tips and converging to form a gap defined by a non-magnetic element positioned between said pole tips, said element being supported in said position by a pressure applied against it by each of said converging pole-pieces, said core supporting means comprising an eddy current shielding element and a spring member, said shielding element being fixedly mounted on said first plate and disposed about said core in such manner as to provide a supporting surface for each of said converging pole-pieces, a gap through which said pole tips are projected, and a surface against which said spring member is compressed, said spring member being positioned between said surface provided by said shielding element and the third pole-piece of said core, said third pole-piece being positioned between said spring member and said converging pole-pieces in such manner as to apply to said converging pole-pieces the pressure required to support said gap-defining non-magnetic element.

2,592,653
SEWING MACHINE ATTACHMENT
Robert W. Burgess, Bridgeport, Carl G. Bachr, West Haven, and John Conners, Hamden, Conn., assignors to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application May 4, 1949, Serial No. 91,292
4 Claims. (Cl. 112—160)



2. In a sewing machine attachment, a frame having upstanding side walls through a portion of its length, a shaft journalled in said side walls and extending laterally beyond one of said walls, a ratchet wheel fixed to the extended end of said shaft, a fork arm pivotally embracing said shaft between said ratchet wheel and the adjacent side wall and carrying a pawl engaging said ratchet wheel, a hub fixedly secured on said shaft between said side walls and having reduced end portions, cam disks fixed to the reduced end portions of said hub and forming between them a cam track, and a lever pivoted to said frame at the under portion thereof forwardly of the vertical transverse plane of said shaft and extending forwardly and rearwardly from its pivot, said lever carrying rearwardly of its pivot and upstanding member disposed within said cam track, said lever being povided forwardly of its pivot with a work-holding foot.

2,592,654
ELECTRICAL PEST DESTROYER
Richard D. Canfield and Edgar E. Canfield, Albertville, Ala.
Application December 21, 1950, Serial No. 202,078
4 Claims. (Cl. 43—132)



2. A device for destroying agricultural pests comprising a frame including a beam attachable to a mobile machine and a plurality of arms secured each at one end to said beam at uniformly spaced apart locations along the latter and

extending in substantially the same direction from said beam with their longitudinal center lines substantially in a common plane which also includes the longitudinal center line of said beam, a plurality of bars of electrically insulative material secured to each arm at spaced apart locations therealong and disposed substantially parallel to said beam with their longitudinal center lines substantially in a plane parallel to and spaced below the first mentioned plane, a bus bar extending along each bar and electrically insulated from said frame, a plurality of flexible fingers of electrically conductive material secured to each bus bar at spaced apart locations therealong and depending therefrom, an engine driven generator mounted on said frame, conductor means connecting one side of said generator to all of the bus bars, and means providing a ground connection for the other side of said generator.

2,592,655
PROTECTIVE COATING
Earl Francis Carlston, Arlington, Va., and Leo Robert Whiting, Woodbridge, N. J., assignors to the United States of America, as represented by the Secretary of the Navy
No Drawing. Application July 10, 1945, Serial No. 604,298
13 Claims. (Cl. 260—27)

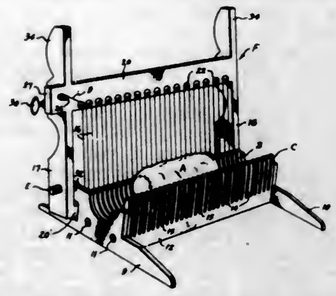
1. An anti-fouling paint composition comprising at least 60% by weight of a solid particulate toxic agent selected from the group consisting of copper, cuprous oxide and a mixture of cuprous oxide and mercuric oxide, up to 18% by weight rosin, and the total being made up to 100% by the addition of a binder selected from the group consisting of copolymerized vinyl chloride-vinyl acetate and polyvinyl butyral.

2,592,656
PISTON AND VALVE ASSEMBLY FOR HYDRAULIC CONTROL DEVICES
John G. Catranis, Syracuse, N. Y.
Application November 19, 1948, Serial No. 60,903
5 Claims. (Cl. 188—96)



1. A piston and valve assembly for hydraulic control devices which comprise a cylinder and a piston having relative axial movement, the piston having a by-pass opening through its pressure faces at opposite ends thereof, a check valve in the by-pass to check the flow of fluid in one direction, a second by-pass in the piston around the check valve, a self-opening throttle valve operable to close the second by-pass, and means in the piston for operating the throttle valve, the throttle valve being mounted to shift axially in an axial passage in the check valve and being formed with the second by-pass leading from the first by-pass through the outer end of the throttle valve, and the operating means being located in the piston in axial alinement with the throttle valve, the throttle valve having a head for coacting with the check valve to press against and hold the check valve closed when the throttle valve is fully closed.

2,592,657
DEVICE FOR SLICING DOUGH
Jack Owen Cierley, Seattle, Wash.
Application January 3, 1950, Serial No. 136,454
4 Claims. (Cl. 107—20)

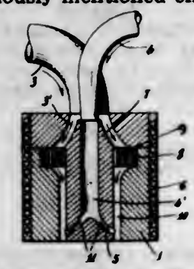


1. A device for cutting dough for cookies and the like, comprising a pair of end members, a rectangular body extended between and attached at the ends thereof to the respective bases, the upper portion of the body being divided into a plurality of relatively narrow ribs concaved crosswise over the body to provide a cradle for rolls of dough and being spaced apart by slots for passage of wires therethrough for cutting the dough in sections of equal widths as the ribs; ears extended backward from the upper rear corners of the body for fulcrums, a rectangular frame for operation over the cradle, pivots extended through the upper rear corners of the frame and rotatably disposed in the fulcrums, flanges along opposite lower margins of the frame provided with a plurality of pins affixed thereto, rollers freely disposed around the pins having diameters slightly exceeding the widths of the ribs for supporting loops of a wire, a wire connected at each end thereof to one of the respective ends of the oppositely disposed flanges and the bight of the wire between its ends, extended in strands to and fro between and around the said rollers for cutting crosswise through rolls of dough in the cradle when the frame is pressed forwardly and downwardly over the slots, the said loops of the wire being relatively loose around and between the respective rollers, to provide a reciprocating lengthwise movement of the strands of the wires simultaneously with downward movement thereof for sawing through the dough and sliding around relatively harder objects therein when the frame is swung downwardly.

2,592,658
EXTRUSION HEAD FOR MOLDING SYNTHETIC RESINS
Roberto Colombo, Turin, Italy
Application February 21, 1948, Serial No. 10,155
In Italy August 20, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 20, 1963
2 Claims. (Cl. 18—12)

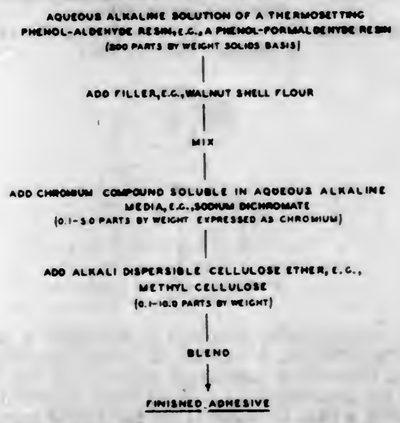
1. Extrusion head for pipes having two superposed layers of thermoplastic materials differing

in properties or colors, comprising in combination an outer body bored along an axis and ending in an extrusion die, the inner surface of said bore limiting the outer surface of the finished pipe, means for heating said outer body, a fixed core coaxial with said outer body and ending at the extrusion die, the cross section of the chamber between the inner core and surface of the bore in the outer body constantly equalling the cross section of the extruded pipe, said fixed core being bored in the part remote from the extrusion die, said last mentioned bore communicating with the previously mentioned chamber through



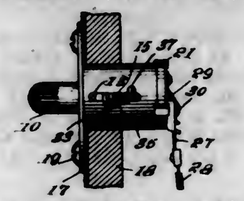
channels nearly perpendicular to the axis of the core, and situated near the end of said core toward the extrusion die, a press for feeding the thermoplastic material to said chamber at the remote end of the extrusion die, so that a pipe of homogeneous material is formed ahead of the previously mentioned channels, a second press communicating with the bore in the inner core and adapted to feed a second thermoplastic material to the chamber between the outer body and inner core, said last mentioned press extruding the thermoplastic material, so that the finished two-layer pipe equals in cross section the previously extruded pipe.

2,592,659
CHROMIUM-CELLULOSE ETHER MODIFIED PHENOLIC ADHESIVES
Charles N. Cone, Portland, Oreg., assignor to United States Plywood Corporation, New York, N. Y., a corporation of New York
Application April 25, 1949, Serial No. 89,554
14 Claims. (Cl. 260—14)



1. An adhesive composition comprising a thermosetting phenol formaldehyde resinous condensation product, a chromium compound soluble in aqueous alkaline media, and an alkali dispersible cellulose ether, the constituents being employed in the relative proportions of between about 0.1 and about 5.0 parts chromium compound, expressed as chromium, and between about 0.1 and about 10.0 parts cellulose ether for each 200 parts phenol formaldehyde resinous condensation product, parts being expressed as parts by weight on a solids basis.

2,592,660
PLUNGER TYPE CAM ACTUATED SWITCH
Harold W. Crumley, Johnson City, Tenn.
Application August 19, 1949, Serial No. 111,190
1 Claim. (Cl. 200—159)



In an electric switch, the combination which comprises a cylindrical casing having an outer end with an opening of reduced diameter therein and an inner end, said casing having a longitudinally disposed slot in the wall thereof with a substantially triangular shaped recess in the wall and extended from one side of the slot, said recess having a shoulder extended laterally of the slot and positioned substantially at a right angle to the slot, said recess having a sloping cam surface extended from the said shoulder to a point spaced from the inner end of the slot, a plunger, the outer end of which extends through the opening in the outer end of the cylindrical casing providing a button, said button having an enlarged inner end slidably mounted in the cylinder and having a pin thereon positioned in the said slot, and a spring in the cylinder for urging the said pin against the shoulder with the plunger turned in a clockwise direction and also for urging the plunger outwardly of the cylinder, said wall of the casing also having a notch therein positioned in the edge of the slot opposite to that in which the triangular shaped recess is positioned and spaced from the inner end of the slot.

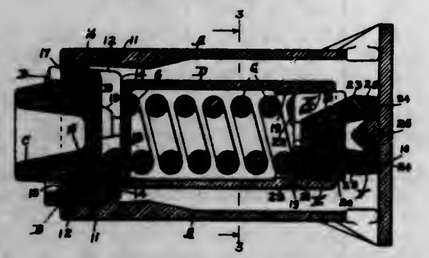
2,592,661
FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
Vernon S. Danielson, Dolton, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application August 4, 1949, Serial No. 108,495
5 Claims. (Cl. 213—31)



1. In a friction shock absorber, the combination with a friction casing having interior friction

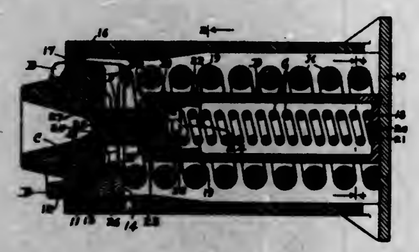
surfaces; of friction shoes slidingly telescoped within the casing in sliding frictional contact with the friction surfaces thereof; yielding means within the casing, reacting between said shoes and casing for resisting inward movement of the shoes; and cooperating means on said shoes and casing operative toward the end of the compression stroke of the mechanism exerting inward pressure on the lower ends of said shoes for tilting the shoes with respect to the casing to break the frictional contact between said shoes and casing friction surfaces.

2,592,662
FRICTION SHOCK ABSORBING MECHANISM FOR RAILWAY CARS
George E. Dath, Mokena, and Arnold G. Peterson, Chicago, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 5, 1950, Serial No. 160,292
3 Claims. (Cl. 213—34)



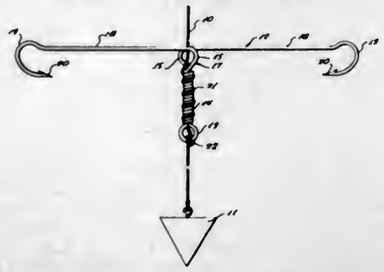
1. In a friction shock absorbing mechanism, the combination with a friction casing; of friction shoes slidingly telescoped within the casing; a wedge pressure transmitting member in wedging engagement with the shoes; and frictional resistance means within the casing yieldingly opposing inward movement of said shoes, said frictional resistance means including a second friction casing, friction shoes slidingly telescoped within said second casing, a wedge in wedging engagement with said last named shoes, and a spring within said second named casing yieldingly opposing inward movement of said last named shoes.

2,592,663
FRICTION SHOCK ABSORBING MECHANISM FOR RAILWAY CAR DRAFT RIGGINGS
George E. Dath, Mokena, and Arnold G. Peterson, Chicago, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 24, 1950, Serial No. 163,868
3 Claims. (Cl. 213—34)



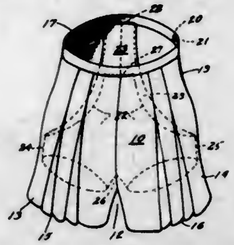
1. In a friction shock absorbing mechanism, the combination with a friction casing; of friction shoes slidingly telescoped within the casing; a wedge pressure transmitting member in wedging engagement with said shoes; a spring within the casing yieldingly opposing inward movement of said shoes; and frictional resistance means within said casing yieldingly opposing inward movement of said wedge pressure transmitting member, said frictional resistance means including a second friction casing, friction shoes slidingly telescoped within said second casing, a wedge in wedging engagement with said last named shoes, and spring means within said second named casing yieldingly opposing inward movement of said last named shoes.

2,592,664
FISHING TACKLE
Alfred C. De Mello, New Bedford, Mass.
Application April 11, 1950, Serial No. 155,155
1 Claim. (Cl. 43—44.82)



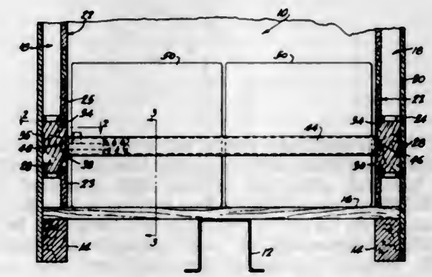
A fishing hook formed of a length of wire bent upon itself intermediate its ends to form a straight portion and a coiled portion, said coiled portion being formed about said straight portion between its ends to form a brace portion having a loop at its inner and outer ends, the end portions of said wire extending in opposite directions from the loop on the outer end of said brace portion and at right angles thereto to form straight shank portions, and a hook portion terminating in a barbed point on the terminating end of each of said shank portions.

2,592,665
INNER AND OUTER COMBINED BIFURCATED GARMENT
Joseph Deutsch, Youngstown, and Eugenia Simon, Girard, Ohio
Application November 3, 1949, Serial No. 125,288
1 Claim. (Cl. 2—228)



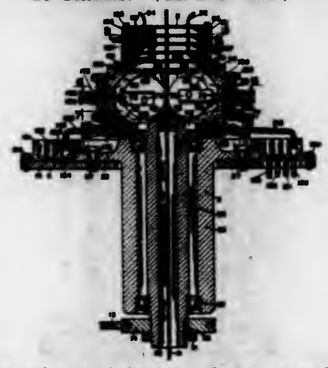
A combination garment comprising a pair of shorts including a waistband having leg constructions depending therefrom with a crotch dividing the leg constructions, and an inner garment comprising a pair of integral leg encircling band portions, said band portions having juxtaposed narrow front sections extending upwardly therefrom joined along juxtaposed inner edges and having juxtaposed narrow rear sections extending upwardly therefrom and joined along juxtaposed inner edges to form a central seam and a crotch between the leg band portions and to form narrow front and rear panels, the outer edges of said front panel being substantially spaced from the outer edges of said rear panel to define enlarged openings, the upper edges of said front and rear panels being permanently attached to front and rear portions, respectively, of the waistband of the shorts so that said inner garment can be normally positioned within said shorts and positioned exteriorly of said shorts for drying and so that the inner garment has its front and rear panels securely supported relative to front and rear portions, respectively, of the waistband, the widths of said front and rear panels being at the minimum necessary to support the inner garment so that the amount of doubling of material at the portions of the combination garment covering the hips of the wearer and encircling the waist of the wearer is minimized, a placket at one side of said shorts and a fastener in said placket for closing the same, the placket registering with the enlarged opening between the outer edges of the front and rear panels of the inner garment at one side thereof.

2,592,666
LOAD BRACING MEANS
Edward T. Doherty, Chicago, Ill., assignor to Arthur F. O'Connor, Chicago, Ill.
Application February 26, 1948, Serial No. 11,220
8 Claims. (Cl. 105—369)



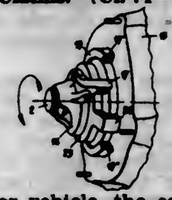
1. In a railway car having opposed side walls, each of said walls including upstanding post members; load bracing means comprising a movable member mounted on each opposed side wall adapted for movement in a horizontal plane parallel with said walls, fastening means formed on said movable member, an abutment formed on said movable member extending within the inner and outer bounding planes of said post members, said abutment being movable toward a fixed side wall member, said abutment and said wall member each having a spaced apart opposed substantially vertical backing portion, resilient means disposed intermediate said abutment and said wall member adapted to yieldably resist the movement of said abutment toward said wall member, a load bracing member disposed transversely of the car formed adjacent each opposed side wall with fastening means selectively engageable with the adjacent first named fastening means, said bracing member being adapted in response to the force of lading shifting thereagainst to urge the cooperating movable member at each opposed side wall toward and adapted to compress said resilient means between an adjacent wall member and an adjacent abutment whereby to cushion the force of the shifting lading with respect to the car.

2,592,667
MACHINE FOR STRIPING ELECTRIC CONDUCTORS
Robert A. Donnan, Worcester, Mass., assignor to Surprenant Mfg. Co., Boston, Mass.
Application April 29, 1949, Serial No. 90,392
16 Claims. (Cl. 118—221)



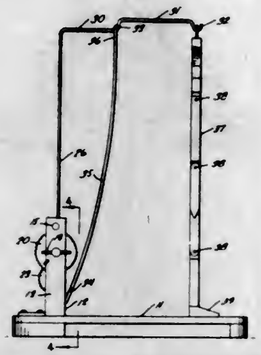
1. In a wire striping machine provided with means for moving a wire to be striped along the axis of the machine, a striping unit mounted on the machine to rotate about said axis, driving means to rotate the unit around said axis, said unit comprising an inking pocket therein spaced from said axis, a striping disk mounted on the unit for rotation with respect thereto and revolved by the unit around said axis when the unit rotates with a part of the periphery of said disk; adjacent to said axis for engagement with the wire to be rotated by the latter as the wire moves along the axis and with another part of said disk extending into said pocket, a stationary striping ink reservoir, an ink receiver fixed to the unit communicating with the pocket, and feed means to deliver ink from the reservoir to the receiver, ink in the reservoir passing through said feed means into the receiver and thence into the pocket to replenish the ink supply in the pocket, said driving means when rotating the unit causing ink to be held in the pocket spaced from said axis by centrifugal force to be taken up by the disk to produce a spiral stripe on the wire as the latter moves along said axis and the unit is rotated by said driving means.

2,592,668
LOCKING MECHANISM FOR A DIFFERENTIAL
Léon Dufour, Geneva, Switzerland
Application August 24, 1949, Serial No. 112,083
In Switzerland September 8, 1948
3 Claims. (Cl. 74—711)



1. In a motor vehicle, the combination, comprising, a differential having two sun wheels and at least two planet wheels, a boss rigid with one of the sun wheels, a lever rotatable with the other sun wheel, means rotatable about the axis of the sun wheels and extending into the paths of the boss and the lever and after a predetermined rotation causing the rotating bolt to rotate the boss and sun wheel thereof.

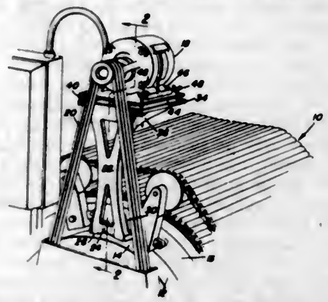
2,592,669
DANCING DOLL
Obie V. Dyer, Tulare, Calif.
Application July 19, 1949, Serial No. 105,600
2 Claims. (Cl. 46—138)



1. A toy dancing doll comprising a base member, an upstanding bracket positioned upon said base member adjacent one end thereof and secured thereto, a vertically disposed wire superimposed upon the upper end of said bracket and having the lower end secured thereto, a first horizontally disposed wire having one end secured to the upper end of said vertically disposed wire, a second horizontally disposed wire arranged in end to end spaced relation with respect to the other end of said first horizontally disposed wire and spaced above the latter wire, a riser interposed between the adjacent ends of said first and second horizontally disposed wires and connected thereto, a hook positioned on the other end of said second horizontally disposed wire and secured thereto, a spring motor mounted within said bracket, an upstanding rod having its lower end operatively connected to said spring motor and having its upper end loosely connected to said first horizontally disposed wire and engaging said riser, and an articulated doll positioned underneath said hook and dependingly supported therefrom, the other end of said doll engageable with said base member.

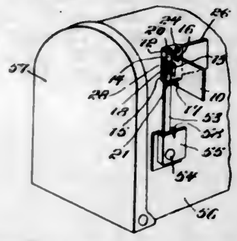
2,592,670
ADJUSTABLE MOTOR MOUNT FOR CARDING MACHINES
Cornelius F. Earnhardt, Spartanburg, S. C., assignor to Earnhardt Electric Service, Inc., Spartanburg, S. C., a corporation of South Carolina
Application January 9, 1951, Serial No. 205,172
2 Claims. (Cl. 19—98)

1. In a carding machine, the combination of a frame member having a convex upper surface and an upstanding flange at one side of said surface, an upwardly extending bracket having a concave base portion positioned on said convex upper surface and rigidly secured thereto, an upwardly extending lug provided integrally on said base portion and rigidly secured to said flange, a horizontal platform provided at the upper end of said bracket, a plate hinged at one edge thereof to said platform for upward and downward swinging movement, a motor mounted on said plate and having an endless belt drive to a drive element supported by said frame member, and means for adjusting said plate relative to said



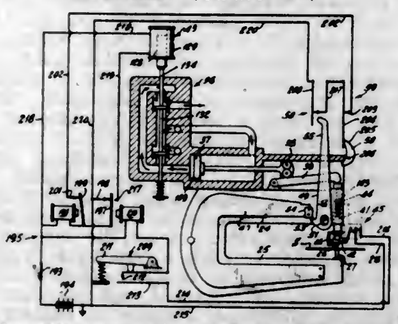
platform, whereby to vary the tension of said drive.

2,592,671
AUXILIARY MAILBOX FLAG
Edwin C. Esten, Lima, Ohio
Application October 26, 1949, Serial No. 123,569
3 Claims. (Cl. 232—34)



1. In an auxiliary signal for a mail box having a usual flag pivotally mounted theron, a mounting bracket attached to the staff-attached end of the flag, an auxiliary flag having a pin fixedly mounted on its corresponding end, said pin being slidably connected to said mounting bracket, latch means retaining the auxiliary flag in a position parallel to the usual flag, and means in the bracket for urging the auxiliary flag to an outwardly extended position perpendicular to the usual flag when the latch means is released.

2,592,672
AUTOMATIC DIMPLING MACHINE
Howard R. Fischer, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application December 17, 1946, Serial No. 716,736
14 Claims. (Cl. 153—21)

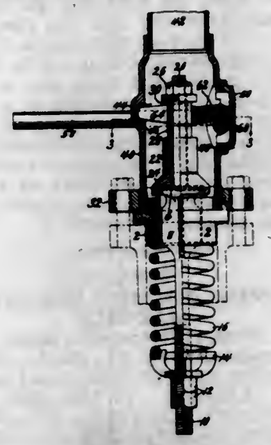


1. A press comprising a fixed die adapted to support a work piece, a longitudinally movable

ram, a punch supporting member telescopically slidable in the ram and adapted during movement to bring a movable punch down upon the work piece, a U-shaped yoke terminating in a pair of spaced jaws formed to carry the fixed die in one jaw and to support the movable ram in the other jaw, said jaws being adapted to spread in relation to each other within their elastic limit in reaction to the pressure applied by the operative parts in performing the pressing operation, pressure fluid operated means for driving the ram toward the fixed die, spring means to return said ram to initial position, a shiftable fluid control valve for controlling the flow of pressure fluid from a source of pressure fluid to a fluid operated means, an electric circuit, electrically operated means associated with said circuit capable of shifting said control valve from an initial position to an operative position in which said valve is effective to pass pressure fluid in one direction to said fluid operated means and cause the latter to drive the ram toward the fixed die, a switch in said circuit disposed adjacent the punch supporting member, means associated with the punch supporting member adapted upon a predetermined motion of said member toward the die to close said switch thereby to shift said valve to operative position to pass pressure fluid to actuate the ram toward the die, a stationary member secured at one end to one jaw of the yoke and having its other end arranged adjacent the other jaw of the yoke, a second switch in the circuit, means controlling said second switch adapted for operation in response to a predetermined relative movement between the spreading jaws and the stationary member to open the switch to stop the power movement of the ram, electrical means in said circuit for forestalling operation of said electrically operated valve control means to permit the spring means to return the ram to initial position, and a third switch in said circuit controllable by the operator to initiate operation of said electrically operated valve control means.

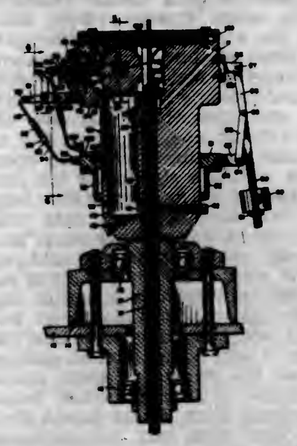
9. A metal working machine comprising a frame having opposed jaws for reception of a workpiece having preformed portions, a tool reciprocably carried by one of said jaws for operating on the workpiece, a motor in driving relationship with said tool, an electromagnetic controller for said motor, a first switch having a pair of normally open contacts, said tool having means responsive to alignment of a preformed portion with said tool to effect closure of said contacts, a second switch carried by said frame which is normally closed but which is opened upon application of overload forces to said jaws, a first circuit for connection with a source of electrical energy and including a winding of a first relay, an armature of a second relay, a first contact of said second relay, and a grounding connection, a second circuit for connection with said electrical source and including a winding of said second relay, a control switch, said first switch, and a grounding connection, and a third circuit for connection with said electrical source and including said electromagnetic controller, a second contact of said second relay, the armature of said second relay, the armature of said first relay, a contact of said first relay, said second switch, and a grounding connection, said third circuit being arranged to provide a time lag between opening of said second switch and reestablishment of the third circuit which is dependent upon the opening and closing of said first switch, the armature of said first relay being biased away from the contact thereof, while the armature of said second relay is biased toward the first contact thereof.

2,592,673
SAFETY VALVE
Clyde H. Folmsbee, Bloomsburg, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 11, 1945, Serial No. 604,309
6 Claims. (Cl. 137—53)



1. In a safety valve adapted to be secured to a pressure vessel, the combination of a valve body having a valve seat, a valve resiliently urged onto said valve seat by spring means located on one side of the valve seat, a projecting valve stem located on the opposite side of said valve from said spring means, a housing surrounding said projecting valve stem, a Y-shaped lift member disposed within said housing and free of attachment thereto, said lift member having the arms thereof in engagement with said valve stem, and operating means engaging the leg of said Y-shaped lift member to move the same and lift said valve off the valve seat.

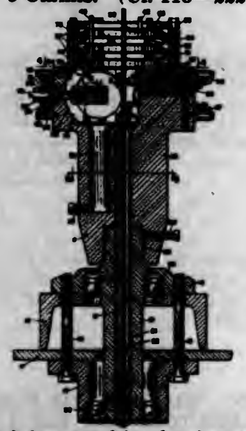
2,592,674
STRIPING MACHINE FOR ELECTRIC CONDUCTORS AND THE LIKE
George E. Forsberg, Worcester, Mass., assignor to Surprenant Mfg. Co., Boston, Mass.
Application March 22, 1949, Serial No. 82,732
13 Claims. (Cl. 118—221)



1. In a striping machine, a rotatable unit through the axis of which a wire to be striped

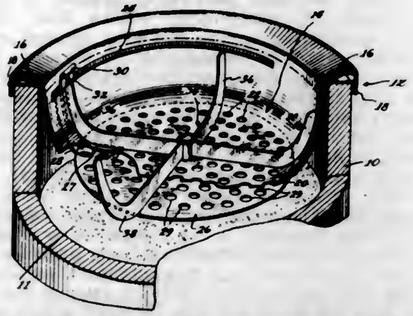
moves, means for rotating the unit, a plurality of striping units including disks for peripheries of which are inked and disposed around the wire, a carrier for each disk mounting the latter for rotation, means on the unit mounting the carriers and disks for movement toward the wire and causing the carriers and disks to revolve about the wire, an equalizer surrounding and movable axially on the unit and operatively connected to each carrier, and means including fly-ball means operatively connected to the equalizer effective by centrifugal force due to rotation of the unit to move said equalizer in a direction to cause said carriers to move said peripheries simultaneously into driving engagement with the wire, the latter due to movement thereof through the machine rotating the disks on their respective carriers while said disks revolve around the wire due to rotation of the unit.

2,592,675
STRIPING MACHINE FOR STRAND MATERIAL
George E. Forsberg, Worcester, Mass., assignor to Surprenant Mfg. Co., Boston, Mass.
Application April 29, 1949, Serial No. 90,391
5 Claims. (Cl. 118—222)



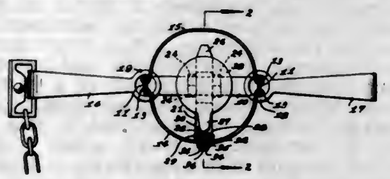
5. In a striping machine having a vertical axis along which a wire moves to be striped when the machine is in operation, a striping unit rotating about said axis and having an inking pocket therein and striping means extending into the pocket a given distance from said axis and striping the wire as the machine operates, a stationary reservoir for striping ink above said unit, an ink receiver secured to said unit above said pocket and rotating with the unit when the latter rotates and comprising an ink compartment formed with an opening extending continuously around and concentric with and opening toward said axis, a hollow stationary ink delivery member connected to said reservoir having a part thereof extending between said axis and said receiver and having another part thereof extending through said opening into said compartment, said other part of said ink delivery member having an ink delivery mouth within said compartment located at a distance from said axis less than said given distance to deliver ink from said reservoir to said compartment, and said receiver having an ink passage therein connecting said compartment with said pocket located farther from said axis than is said mouth through which ink can flow from said compartment into said pocket to compensate for ink drawn from the pocket by operation of said striping means.

2,592,676
SAND URN
Leon H. Franklin, Chicago, Ill., assignor to Cecile Franklin, Chicago, Ill.
Application April 23, 1949, Serial No. 89,229
2 Claims. (Cl. 209—283)



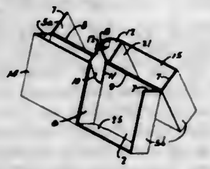
1. A sifter adapted for use with a sand urn comprising a bowl having an annular shoulder adapted to rest on the top of a sand urn, said bowl having a plurality of perforations in the bottom thereof, a plurality of blade members being shaped to conform to the inner surface of said bowl to wipe said inner surface when rotated, a plate arranged adjacent the underside of said bowl and in contact therewith and adapted for simultaneous rotation with said blade members, said plate having a plurality of perforations arranged substantially in the same pattern as the perforations in the bottom of the bowl, means for simultaneously rotating said blades and said plate to move the perforations of said plate into and out of registration with corresponding perforations of said bowl.

2,592,677
ANIMAL TRAP
Oscar E. Fredrickson, Moose Pass, Territory of Alaska
Application October 11, 1949, Serial No. 120,711
3 Claims. (Cl. 43—93)



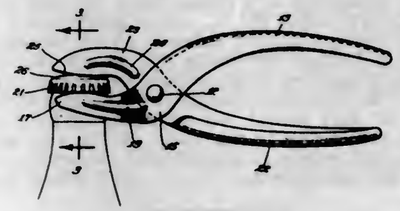
1. In an animal trap having cooperative relatively movable spring urged jaws, means releasably engaging one of said jaws for holding said jaws in a spaced set position against the spring urgement, said means comprising a supporting plate attachable to the base plate of the trap, a locking arm, a first pivot connecting one end of the arm to the plate for vertical swinging movement about a horizontal axis, an offset locking shoulder on the other end of the arm, said arm being adapted to be positioned perpendicular to the supporting plate and arranged within the jaws with the offset end vertically overlying the first pivot and engaged on a portion of one of said jaws, the engaged portion of the said jaw being in vertical alignment with the first pivot, a bait pan adapted to be substantially disposed in a horizontal plane and overlying the supporting plate, said bait pan having a vertical end extension disposed at right angles to the plate, a second pivot connecting said end flange to the offset end of the arm, said second pivot element lying in a vertical plane paralleling and disposed outwardly from the vertical plane of the first pivot, said bait pan upon depression under the weight of the paw of an animal causing the arm to swing inwardly about the pivot member relative to the supporting plate with the second pivot moved into vertical alignment with the first pivot and the engaged jaw portion camming over the offset end, and the arm and bait pan collapsing about both of the pivots.

2,592,678
DISPLAY CARTON
Edwin W. Fuerst, Toledo, Ohio
Application August 17, 1945, Serial No. 611,070
9 Claims. (Cl. 206—45.11)



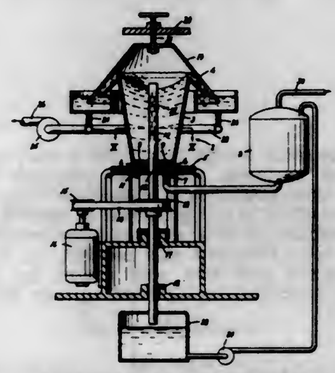
3. A shipping and display container, the container comprising a pair of tray-like sections joined by a folded edge along one side and adapted when closed to form a complete enclosure, a second fold line extending transversely to the first along the bottoms of the tray-like sections, cuts in the side walls of the sections adjacent the ends of the second fold line, the cut in the joined side walls being generally S-shaped to provide a pair of extending tabs which are raised to interlocking position when the sections are folded about the fold line.

2,592,679
PIVOTED LEVER BOTTLE CAP REMOVER
Erik Gedde, Chicago, Ill.
Application April 8, 1947, Serial No. 740,072
2 Claims. (Cl. 81—3.46)



1. In a bottle opener for bottle closures having a convexly crowned center portion and a downwardly extending crimped flange, the combination of means for creasing the crowned portion of the cap diametrically across its center, said means including an upper jaw with a straight relatively sharp lower edge adapted to engage the crown of the cap; means for simultaneously lifting the flange of the cap at two points on opposite sides of the crease, said means comprising a pair of jaws below and parallel with said upper jaw and spaced apart from each other to engage the opposite sides of the cap flange at diametrically opposed points; and a pair of cross pivoted handles attached to and supporting said jaws for simultaneously forcing all of said jaws into engagement with the cap.

2,592,680
APPARATUS FOR REMOVAL OF GASES FROM LIQUIDS
Chester H. Goodwin, Nitro, W. Va., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 14, 1946, Serial No. 669,670
5 Claims. (Cl. 233—21)



1. Centrifuging apparatus comprising a bowl having a wall whose internal circumference increases in an upward direction to a maximum at the upper end of the bowl, an overflow flange at the upper end of the bowl extending outwardly and downwardly therefrom, means extending through the bottom of the bowl for introducing a liquid into the bowl, means disposed around the bowl for collecting the liquid discharged from the overflow flange, a stationary hood having an outwardly and downwardly extending surface spaced a small distance from, and arranged concentrically with the flange, said surface of the hood extending into the collecting means, a hollow drive shaft extending through the bottom of the bowl to a generally centrally located region above the bottom of the bowl, said shaft being apertured near its upper end to provide communication between its bore and said centrally located region.

2,592,681
SILAHYDROCARBONS AND THEIR PRODUCTION
John T. Goodwin, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application April 20, 1948, Serial No. 22,252. In Great Britain July 1, 1947
12 Claims. (Cl. 260—448.2)

1. $C_2H_5OSi(CH_3)_2CH_2Si(CH_3)_2OC_2H_5$.

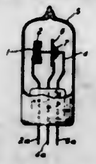
2,592,682
ORGANO SILOXANES AND THEIR PRODUCTION
John T. Goodwin, Jr., Pittsburgh, Pa., assignor to Dow Corning Corporation, Midland, Mich., a corporation of Michigan
No Drawing. Application April 20, 1948, Serial No. 22,257. In Great Britain July 1, 1947
6 Claims. (Cl. 260—448.2)

1. Compounds of the formula

$$[SiR_2(CH_2SiR_2)_nO]_x$$

in which R represents a radical of the group consisting of monocyclicaryl and alkyl, n is a positive integer and x is a positive integer of at least two.

2,592,683
STORAGE DEVICE UTILIZING SEMICONDUCTOR
Frank Gray, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1950, Serial No. 203,643
17 Claims. (Cl. 313—330)



1. Apparatus which comprises a body of semiconductor material, a metallic electrode making contact therewith, the resistance of said contact being sensitive to the presence of electric charge in its vicinity, a film of insulation on a surface of said body adjacent said contact, an ionizable gas adjacent said film, and means for ionizing said gas to produce a localized surface charge on said film.

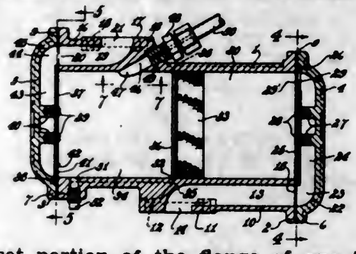
2,592,684
ORNAMENTAL FIXTURE
Robert S. Grimshaw, Detroit, Mich.
Application June 24, 1947, Serial No. 756,750
2 Claims. (Cl. 40—142)



1. An identification letter, numeral or emblem, to be removably mounted on an automobile body ventilating window frame, said frame having a symmetrical U-shaped cross section which defines a shoulder on either side and embraces the window glass, said identification member being molded, cast or otherwise a permanent part of one end of a clip portion, said clip portion being generally U-shaped so as to embrace and resiliently grip said first mentioned window frame, said identification member having an offset shape on the inward portion thereof adapted to be disposed on the one side of said window frame member which is adapted to interlockingly engage over said shoulder.

2,592,685
AIR SEPARATOR FOR LIQUIDS
Alfred L. Grisé, Springfield, Mass., assignor to Gilbert & Barker Manufacturing Company, West Springfield, Mass., a corporation of Massachusetts
Application May 4, 1950, Serial No. 159,924
3 Claims. (Cl. 183—2.5)

1. In an air separator, a body having a cylindrical opening therethrough and adapted to be supported with the axis of such opening disposed substantially horizontally, heads one for closing each of the two opposite ends of the opening in said body, a coalescing pack in roll form located inside said body intermediate the ends thereof and dividing the interior of the body into two cylindrical chambers, each head having an endless flange of annular form except for a single U-shaped outward offset therein and having a recess embordered by said flange, a thin segmented-circular plate fixed to each head and forming therebetween a chamber closed except for a segment-shaped opening provided by segmentation of said plate and a diametrically opposite opening beyond the periphery of the plate into the space within the offset portion of the flange, said heads being reversely arranged with



the offset portion of the flange of one turned downwardly and the other turned upwardly, said body having in its lower and upper portions longitudinally-disposed inlet and outlet passages. respectively, communicating at one end with the space within the downturned and upturned offset portions, said inlet and outlet passages terminating at locations between the ends of the body with downturned and upturned entrance and exit openings.

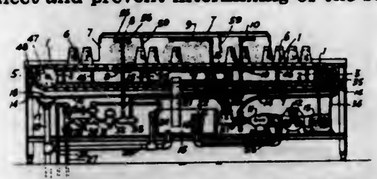
2,592,686
ELECTROLYTIC PRODUCTION OF FATTY ACIDS
Walter Henry Groombridge and William Hunter, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application July 29, 1947, Serial No. 764,564. In Great Britain March 27, 1942
7 Claims. (Cl. 204—72)

1. Process for the production of a free fatty acid of formula R.COOH, where R is an alkyl group containing from 1 to 3 carbon atoms, from an alkali metal salt thereof, which comprises electrolyzing an aqueous solution of the salt of 5% to 50% concentration while preventing admixture of the anolyte and catholyte, the electrolysis being conducted at a temperature between about 80° C. and about 95° C., while maintaining the anode current density between about 1.5 and 2.5 amps. per square decimeter and, before electrolysis has proceeded substantially beyond the stage where the anolyte contains one molecule of fatty acid for each initial two molecules of fatty acid alkali metal salt in the form of the acid alkali metal salt, removing anolyte and recovering fatty acid by decomposition of the acid alkali metal salt.

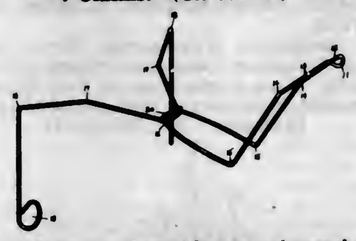
2,592,687
STERILIZING APPARATUS
Carl L. Halmrast, Vancouver, British Columbia, Canada; Anna Christina Halmrast executrix of said Carl L. Halmrast, deceased
Application February 13, 1950, Serial No. 143,910
In Canada March 7, 1949
3 Claims. (Cl. 21—80)

1. In a sterilizing apparatus having a flexible endless conveyor; a drip collecting pan extending the full length of the loop of said endless conveyor and of a width not less than the width of said conveyor and having a depth of approximately one half the depth of the loop of said conveyor when the same is mounted over and about the respective rotating elements provided

for the purpose of imparting rotatable movement to said flexible endless conveyor, filtering means within said pan and means to semi-automatically flush and sterilize the same, a secondary drip collecting pan within and above the first as means to collect and prevent intermixing of the sterilizing solution with the washing and rinsing solution; a side outlet draining conduit in said secondary pan passing over the side of the first drip pan and discharging to a reservoir tank positioned below the same, and means to continuously circulate sterilizing solution apart from and free of washing and rinsing solution.

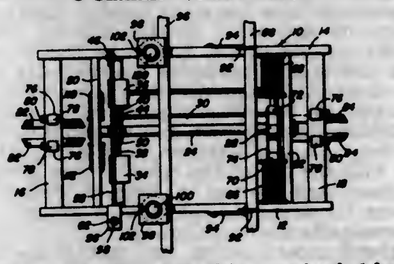


2,592,688
FISHING POLE HOLDER
Paul A. Halfpap and Eugene P. McDermott, Fort Dodge, Iowa
Application August 17, 1949, Serial No. 110,792
7 Claims. (Cl. 224—5)



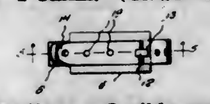
1. In a fishing pole holder, a rod member bent at its center to form a U-shaped support portion, the resulting two rod length portions then extending in spaced relation downwardly and rearwardly, thence horizontally rearwardly and outwardly away from each other, thence vertically downwardly, and a yielding means secured to said rod length portions for holding the same toward each other; said yielding means also capable of serving as a yielding stop means to retard the upwardly movement of a fishing pole passing between said two rod length portions and beneath said yielding means.

2,592,689
ELECTRICALLY CONTROLLED PLANT CHOPPING MACHINE
Arthur B. Hann, Parma, Idaho
Application July 16, 1948, Serial No. 38,980
5 Claims. (Cl. 97—18)



1. In an agricultural machine, a wheeled frame, a longitudinal shaft carried by said frame, a pair of members vertically pivotally attached to said shaft, a blade carried by said members, a pair of solenoids carried by said frame for actuating said members in a pendulous action periodically, one of said members having a cam surface, means carried by said frame engaging said cam surface to normally retain said members in a vertically inclined position, and light sensitive means responsive to a plant for controlling said solenoids, said cam engaging means including a pivotal support carried by said frame, a bearing disk carried by said support engaging said cam surface, and resilient means yieldingly urging said disk against said cam surface.

2,592,690
BRACELET CONNECTOR
Homer H. Harris, Elmont, N. Y.
Application December 14, 1945, Serial No. 634,927
1 Claim. (Cl. 24—201)

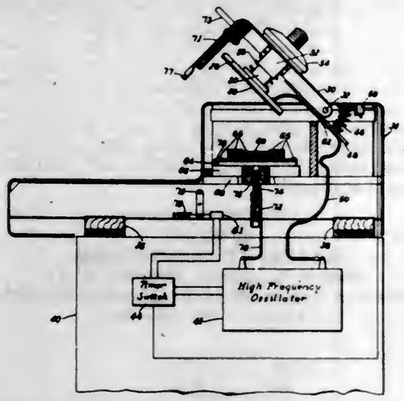


In combination, a flexible metal strap having overlapped end portions, one of said end portions being in the form of a longitudinally elongated plate of greater width than the remainder of the strap, said plate being formed intermediate its ends with a transversely elongated slot through which the other end portion of the strap is adapted to be passed from the inward side of said plate to extend along the outward side of said plate and to extend longitudinally from said plate along the outward side of said one end portion of the strap, said other end portion having a free end, a loop embracing said one end portion of the strap at a point longitudinally spaced from the end of said plate into which the free end of said other end portion of the strap is adapted to be inserted, said other end portion of the strap being formed with a plurality of longitudinally spaced holes, and a U-shaped catch comprising a bight portion passing through one of the holes in said other end portion of the strap, a first leg extending from said bight portion in a direction away from said free end and engaging the inward side of said other end portion of the strap, and a second leg extending from said bight portion in a direction away from said free end and engaging the outward side of said other end portion of the strap, said second leg terminating in a portion spaced outwardly from the outward side of said other end portion of the strap and arranged to overlie the outward side of said plate.

2,592,691
AVOIDING EFFECT OF MOISTURE DURING HIGH-FREQUENCY DIELECTRIC HEATING
George T. Hart, Lynn, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application August 31, 1946, Serial No. 694,305
12 Claims. (Cl. 34—1)

1. In apparatus of the class described, coacting electrodes adapted, when supplied with high frequency electric energy, to establish an alternating electric field in a work piece supported in predetermined operative relation to the electrodes, absorbent material disposed for shielding at least a portion of the work-opposing surface of an electrode from vapor emanating from said work piece, and means for maintaining during operation a substantially spaced relation between the work piece and the absorbent material to

provide for the escape of vapors emanating therefrom during the application of a high-frequency field, the material being adapted to absorb at least a part of the moisture which may condense



thereon when starting to use the apparatus, and for retaining heat at the surface thereof to prevent the condensation of moisture thereon with continued use of the apparatus.

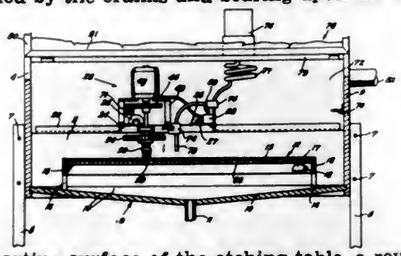
2,592,692
NOVELTY CONTAINER
Maurice E. Hattenbach, Chicago, Ill.
Application November 17, 1949, Serial No. 127,829
2 Claims. (Cl. 220—69)



1. An article of the class described comprising a base, a stud centrally positioned in said base, said stud being formed with an axial aperture of predetermined size and shape, a body portion mounted on said base, said body portion being formed with a recess at its lower end and adapted to frictionally engage the said stud, said recess having an axial aperture therein similar in shape and coextensive in size with the aperture in said stud, and a keying member having at its lower end a cross-sectional configuration to mate frictionally with the apertures in said stud and recessed to retain said base and body portion in abutting relation.

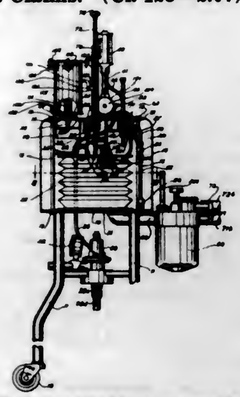
2,592,693
ETCHING APPARATUS
Raymond F. Hayms, Cincinnati, Ohio, assignor of one-half to Joseph T. Pieper, Cincinnati, Ohio
Application April 24, 1950, Serial No. 157,811
7 Claims. (Cl. 41—9)

1. In a device of the class described the combination of a sink having a bottom, and side and end walls, an etching table supported upon the bottom and having a work supporting surface spaced inwardly from the said side and end walls, a rail mounted upon each side wall, a carrier disposed between the rails, support wheels mounted on the carrier in rolling engagement with the rails to provide for longitudinal, traversing movement for the carrier above the table, a pair of laterally spaced cranks positioned beneath the carrier and journaled therein for rotatory movement around vertical axes, a transverse brush carried by the cranks and bearing upon the work



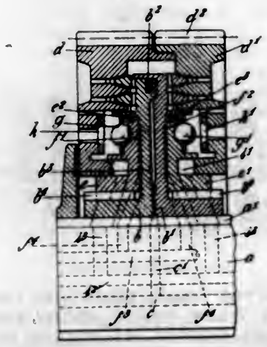
supporting surface of the etching table, a reversing prime mover on the carrier, a drive connection between at least one wheel, the cranks and the prime mover, a two position prime mover control mounted on the carrier, and a limit stop disposed adjacent each end of the sink and in the path of the control for alternately actuating the control.

2,592,694
METABOLISM APPARATUS FOR MEASURING OXYGEN CONSUMPTION DURING RESPIRATION
Jay A. Heidbrink, Minneapolis, Minn., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application September 3, 1946, Serial No. 694,527
13 Claims. (Cl. 128—2.07)



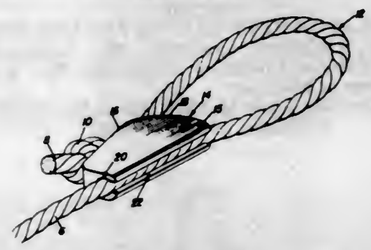
1. Metabolism apparatus comprising an expansible breathing reservoir, a container of dry oxygen maintained under pressure at room temperature, an absorber for carbon dioxide, a mask and connections to the reservoir for establishing a closed breathing line, only the exhalation side of said breathing line going through the absorber, means for delivering directly into the reservoir wholly outside of the breathing line except as such enters and leaves the reservoir dry oxygen gas from said container at a temperature unchanged by the breathing action, a drum and recording sheet thereon and a timing device for driving it, a pen member mounted to rise and fall with the top of the reservoir and positioned to record said rise and fall upon the record sheet, means for adjusting the flow of oxygen to the reservoir effected by the procurement of an evenly balanced record along the record sheet, and means for measuring the adjusted amount of oxygen delivered to the reservoir and absorbed by the subject.

2,592,695
FRICTION AND POSITIVE CLUTCH
Thomas Hindmarch, London, England
Application August 20, 1946, Serial No. 691,818
In Great Britain August 22, 1945
3 Claims. (Cl. 192—53)



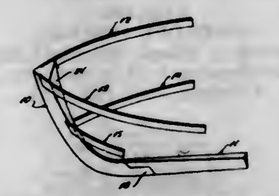
1. In a power transmission mechanism for coupling one rotatable member to another rotatable member, an inner coupling element supported by one of said rotatable members for rotary movement therewith and capable of axial sliding movement, a pressure member supported by the first named rotatable member, said inner coupling element and pressure member including means defining a fluid chamber therebetween, an intermediate member supported by said inner coupling element for rotation therewith and capable of axial sliding movement toward and away from the inner coupling element, the inner coupling element and intermediate member including means constituting a fluid chamber therebetween, an outer coupling element rotatably supported by the intermediate member and including means for imparting rotation to the other of said rotatable members, said intermediate member and outer coupling element being provided with means defining a fluid chamber therebetween, complemental coacting faces on the inner coupling element and the outer coupling element constituting a non-positive friction clutch, complemental coacting parts on the intermediate member and outer coupling element constituting a positive clutching means, and further means defining fluid conduits leading to the chambers between the pressure member and the inner coupling element, the inner coupling element and the intermediate member and the intermediate member and the outer coupling element respectively, whereby the introduction of fluid into the chamber between the inner coupling element and pressure member moves said inner coupling element axially to effect engagement of the coacting faces on the coupling elements, while the introduction of fluid into the chamber between the inner coupling element and the intermediate member moves the intermediate member axially to engage the coacting parts on said member and outer coupling element and the introduction of fluid into the chamber between the intermediate member and the outer coupling element moves said member and inner coupling element toward the inner coupling element and pressure member whereby the coacting parts on the intermediate member and outer coupling element and the coacting faces on the inner coupling element and the outer coupling element are moved apart.

2,592,696
NOOSE RELEASING HONDA
Edward A. Hoody, Dundalk, Md.
Application June 2, 1950, Serial No. 165,765
2 Claims. (Cl. 24—129)



1. As a new article of manufacture, a honda for making up a toy lariat comprising an elongated substantially sector-shaped block, said block having broad top and bottom surfaces, having one longitudinal edge substantially straight from end to end and provided with a rope passage paralleling said edge and further provided with slot opening through said edge, the opposite longitudinal edge of said block being substantially straight from end to end and converging at one end toward the first-named longitudinal edge, one transverse end of said block being curvate and joining the corresponding ends of said longitudinal edges, said block being provided with a relatively short arcuate rope attaching and anchoring bore coplanar with said rope passage and said slot, one end of the bore opening through said curvate edge portion and being spaced away from and diverging in a direction from the corresponding ends of said slot and rope passage, and the other end of the bore opening through the intermediate portion of said second-named longitudinal edge.

2,592,697
BOAT CONSTRUCTION
Andrew C. Hoggatt, Raymond, Wash.
Application March 17, 1950, Serial No. 150,259
3 Claims. (Cl. 9—6)



1. In a boat structure, an elongated, curved stem of generally triangular cross-sectional shape, a keel connected at its forward end to the lower, rearward end of said stem, a pair of gunwales connected at their forward ends to said stem at respectively opposite sides and near the upper end of said stem, a pair of chine strips connected at their forward ends to said stem at respectively opposite sides of the latter and below said gunwales, and a pair of strakes connected at their forward ends to said stem at respectively opposite sides of the latter and below said chine strips, said stem constituting the sole connection for the forward ends of said gunwales, said chine strips and said strakes and having side surfaces diverging from the front edge to the rear side of said stem and converging longitudinally of said stem from the upper end to a location intermediate the length of said stem so that the angle

between said chine strips is less than the angle between said gunwales and the angle between said strakes is less than the angle between said chine strips.

2,592,698

INSULATOR SUPPORTING PIN AND COB

David C. Hubbard, Centralia, Mo., assignor to A. B. Chance Company, Centralia, Mo., a corporation of Missouri

Application April 10, 1948, Serial No. 20,179
2 Claims. (Cl. 174—205)



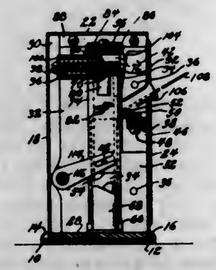
1. In an insulator supporting pin, the combination of a metal pin having means for attachment to a cross-arm or the like, said pin having a substantially cylindrical upper end provided with anchoring formations thereon, a separate sleeve of cellulose acetate butyrate molded to be provided with an internal bore substantially complementary in shape to the end of the pin and its anchoring formations, and having on its exterior surface threaded formations complementary to those on the inside of a glass insulator, the said anchoring formations securing the sleeve on the pin when the glass insulator is driven home on the threaded formations which are provided on the exterior of the sleeve, the said sleeve being provided with a pair of diametrically opposite slits in its sides extending over the major portion of the length of the sleeve and permitting its opposite lower parts to be spread for engagement over the pin with its anchoring formations, the application of the insulator to the external threads of the sleeve causing the slits to close and the side portions of the sleeve to approach each other, to clamp the anchoring formations more firmly.

2,592,699

ENVELOPE OPENER

Frederick C. Iffland, Blissfield, Mich.

Application October 4, 1946, Serial No. 701,379
4 Claims. (Cl. 164—47)



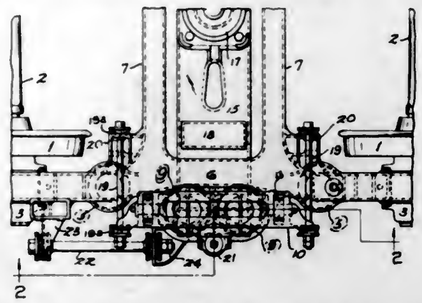
1. In a device of the class described, a frame providing a pair of opposing ways, a slide in said ways, an H-shaped member mounted on said frame having arms adjacent said ways with a connecting cross-piece therebetween, a knife carried by said slide, means urging said knife against said arms which arms provide cam faces along which said knife is directed, and a blade mounted on said cross-piece in position to cooperate with said knife in performing a cutting operation.

2,592,700

RAILWAY TRUCK

Edwin C. Jackson, Clayton, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware

Application September 14, 1945, Serial No. 616,223
15 Claims. (Cl. 105—190)



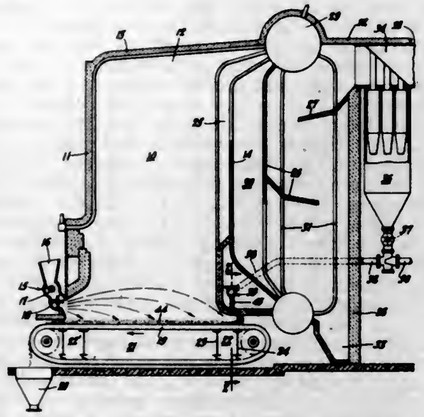
1. In a railway truck, wheel and axle assemblies, a truck frame having spring supports on said assemblies, upright coil springs at opposite sides of the truck and spaced longitudinally of the truck from said supports and each seated at one end on the truck frame with its other end extending upwardly, links extending transversely of the truck and each having one end secured to the truck frame and having its other end holding the upper portion of an associated spring against movement transversely of the truck relative to the truck frame while permitting vertical movement of the unseated end of the spring relative to the truck frame, swing hangers suspended from said springs, and a load-carrying bolster supported by said hangers.

2,592,701

BURNING AND DISPOSAL OF FURNACE FLY ASH

George P. Jackson, Flushing, N. Y., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware

Application July 13, 1946, Serial No. 683,328
3 Claims. (Cl. 110—165)



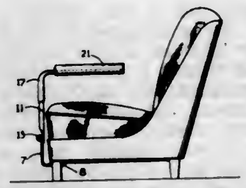
1. In the operation of a furnace having a traveling grate upon which fuel is projected from one end of the combustion chamber for burning on a bed which is moved by said grate toward that chamber end, the method of disposing of the furnace fly ash from said burning fuel which comprises collecting said fly ash from the fuel combustion gases, introducing said collected fly ash into the upper portion of said burning fuel bed outside of the main burning area from which said combustion gases rapidly rise and near the end of said traveling grate that is remote from the fuel-projection end of said combustion chamber but at a location where fuel is deposited upon the grate surface, advancing said thus-introduced fly ash across the furnace toward the traveling grate's opposite or fuel-projection end along with the grate-carried bed of burning fuel and fuel ash while continuously projecting new fuel thereupon thereby covering said fly ash and thereby usefully burning the combustible portions of said fly ash while that ash thus travels across the furnace in said bed, and discharging from the furnace at the traveling grate's said opposite end the unburnable fly ash along with the main ash from the burned fuel.

2,592,702

ARMREST

Douglas Lowry Sprung, Montreal, Quebec, Canada

Application August 29, 1949, Serial No. 112,865
4 Claims. (Cl. 155—112)



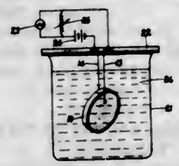
1. An arm rest attachment for an automobile comprising a mounting bracket with a stem rising vertically therefrom; a cylindrical post vertically hinged to the top of the stem thereof and having a stop engageable with the back of the bracket's stem; an L-shaped tubular member, with one arm telescoping over said cylindrical post and releasably securable thereto against relative rotatable and sliding movement, and the other arm of said tubular member normally lying in a horizontal plane being flattened; and a cushion member secured on the upper side of the flattened arm of said tubular member.

2,592,703

TRANSDUCING DEVICE HAVING AN ELECTROMECHANICALLY RESPONSIVE DIELECTRIC ELEMENT

Hans Jaffe, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application April 9, 1947, Serial No. 740,460
10 Claims. (Cl. 171—327)



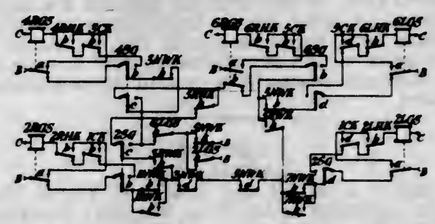
7. A device for transducing between electrical and mechanical energy comprising: a solid body of polycrystalline dielectric material polarized by the application of a unidirectional electrical potential, said polarized material having a substantial response to the fundamental component of an alternating electrical field applied thereto, in at least one mechanical mode; means including electrodes adjacent to two surfaces of said body for translating currents associated with electrostatic energy transduced in said body; and means for supporting said body in vibration-translating relationship to a medium capable of transmitting hydrostatic pressure.

2,592,704

CENTRALIZED TRAFFIC CONTROL SYSTEM OF THE CODE TYPE FOR THE CONTROL OF INTERLOCKED TRACK SWITCHES AND RAILWAY SIGNALS

Arthur L. Jerome, Edgewood, Lloyd V. Lewis, Pittsburgh, and Frank T. Pascoe, Carnegie, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application February 23, 1946, Serial No. 649,598
47 Claims. (Cl. 246—3)



1. In combination with a code type communication system connecting an office and a station, a track layout at the station containing electrically interlocked track switches and having railway signals at its opposite ends for governing traffic movements over the routes formed by the track switches, indication relays at the office, controlled by said code system, for indicating the condition of the switches and signals, switch and signal levers for selecting the character of control codes transmitted from the office to control the operation of the switches and signals, manually controllable starting means at the office for initiating the transmission of such control codes and for storing them for transmission one at a time in a predetermined order, means for governing the transmission of the control codes for clearing the signals in accordance with the positions of the track switches comprising a route check relay for each signal lever for each direction of traffic movement governed by such signal lever, a route circuit network comprising contacts of the switch indication relays interconnected to form route circuits which correspond to the routes formed by the track switches, means for energizing each route check relay including a reverse contact of the associated signal lever and a route circuit in said network which is closed when a route governed by a signal which such lever controls is established provided the opposing route check relay for such route is de-energized, means for including an element for clearing said signal in a control code transmitted when said signal lever is reversed, only if such route check relay is energized, a code indicator relay for each starting relay, means for energizing the associated code indicator relay when a control code governed by a signal lever is stored for transmission by the operation of the corresponding starting relay and for maintaining such code indicator relay energized until a return in-

dication code is received which reflects the condition of the signals controlled by said lever, and means controlled by said code indicator relay for disconnecting the energized route check relay from its signal lever and for completing a stick circuit therefor to hold it energized until the code indicator relay is released.

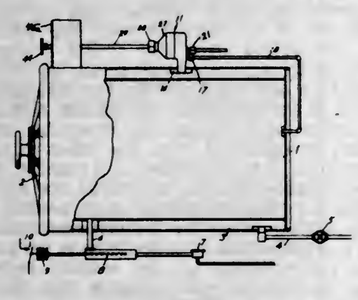
17. In combination with a railway signal for governing traffic movements over a detector track section having a track relay, a control relay for the signal, an intermittently available communication system for transmitting codes from a control office for operating the control relay to clear the signal or to restore said relay to its normal position to condition the signal to indicate stop, a storage relay controlled by the track relay for causing said communication system to transmit indications of the condition of said detector track section to the office, means governed by said communication system for controlling said storage relay to store each track occupied indication until transmitted in the event said communication system is unavailable when a train enters said track section, and means controlled by said communication system for preventing the response of the control relay to any code for clearing the signal which is received after a train enters said track section, until an indication of the occupancy of said track section as reflected by said storage relay has been transmitted by said communication system.

2,592,705

STERILIZER

Raymond L. Jewell and Charles E. Freese, Erie, Pa., assignors to American Sterilizer Company, Erie, Pa., a corporation of Pennsylvania

Application December 5, 1949, Serial No. 131,236
14 Claims. (Cl. 161—7)



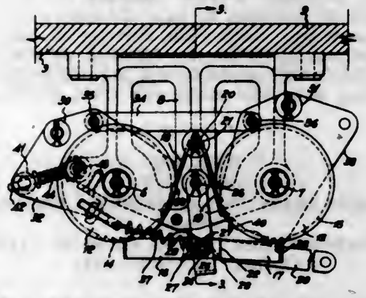
1. In a sterilizer having a rotary multiport valve movable in sequence to sterilize, slow exhaust, fast exhaust and dry positions, a manually operable control shaft for operating the valve, a motor for driving the shaft in the direction to advance the shaft, an overrunning clutch between the motor and shaft permitting manual movement of the shaft relative to the motor only in the direction to advance the control shaft, motor circuits for energizing the motor for rotating the shaft from each of the positions to a succeeding position, limit switches in the respective circuits operated in each position of the shaft to condition a motor circuit for rotation of the shaft to a succeeding position, time controlled contacts in the motor circuits interrupting the circuits until the lapse of the desired time intervals, and a selector switch having contacts for bridging selected limit switches for the positions to be skipped and other contacts for interrupting the motor circuits for the positions to be eliminated.

2,592,706

TYPE RIBBON FEED DEVICE FOR RACE TOTALIZATOR TICKET ISSUERS

Awdry Francis Julius, Sydney, New South Wales, Australia, and George Alfred Julius, deceased, late of Sydney, New South Wales, Australia, by Eva Dronghsia Odierna Julius, Killara, near Sydney, New South Wales, Australia, and Awdry Francis Julius and Russell Stuart Hicks, Sydney, New South Wales, Australia, executors, assignors to Automatic Totalisators Limited, Sydney, New South Wales, Australia

Application June 30, 1948, Serial No. 36,164
In Australia June 30, 1947
2 Claims. (Cl. 101—336)



1. In a type ribbon feed device for a race totalizator, a frame adapted to be secured to a ticket issuer chassis, a pair of parallel shafts fixed on said frame, a pair of winding reels respectively mounted on said shafts and freely rotatable thereon, oppositely positioned ratchet wheels fixedly mounted on and forming parts respectively of said winding reels, an oscillatory bracket pivoted at one end on said frame between said winding reels, two oppositely extending drive pawls both pivoted on the free end of said oscillatory bracket and selectively engageable respectively with said ratchet wheels, springs mounted on said oscillatory bracket for biasing said drive pawls into engagement with said ratchet wheels, an operating link pivotally connected to the free end of said oscillatory bracket, reverse rotation preventing pawls pivotally mounted on said frame and selectively engageable with said ratchet wheels, two cam members freely mounted respectively on said shafts, said cam members each having two lobes respectively engageable with the associated reverse rotation preventing pawl and the associated drive pawl to hold same out of engagement with the associated ratchet wheel, a link interconnecting said cam members for conjoint operation, a pair of throw-over rollers respectively mounted on said cam members and adapted to remain constantly in contact with a type ribbon wound on both of said reels, and a spring loaded toggle device pivotally mounted on the frame and connected to one of said cam members for holding said cam members in either a first position wherein the lobes on one cam member are respectively in engagement with the associated drive and reverse rotation preventing pawls, or in a second position wherein the lobes on the other cam member are respectively in engagement with the associated drive and reverse rotation preventing pawls.

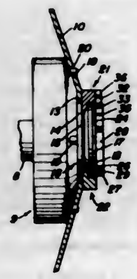
2,592,707

VEHICLE WHEEL AND MOUNTING MEANS THEREFOR

Harold L. Kelderman, Oskaloosa, Iowa

Application June 14, 1949, Serial No. 98,933
1 Claim. (Cl. 301—9)

In a structure of the class described, in combination, a wheel axle construction including a brake housing having an outstanding centrally located adapter, said adapter being marginally and circumferentially grooved to define an inward annular wheel mount and a companion flange, said flange being annular, spaced outwardly from the mount and being adapted to accommodate and retain a clamping collar, and a clamping collar adapted to hold a wheel in operative position on said adapter, said collar comprising a pair of duplicate semi-circular half-sections, said half-sections having grooves in their



inner peripheral edge portions and said flange fitting into and occupying the respective grooves, a pair of manually actuable complemental levers hingedly mounted on said half-sections, take-up and retaining latches hingedly mounted on said half-sections, and pivotal connections between the respective levers and latches, said levers and latches providing toggle-type linkage connections between said half-sections, said linkage connections being of over-all lengths less than the diameter of said clamping collar so that no portions of said connections project beyond the outer peripheral edge of the collar.

2,592,708

METHOD OF MAKING CELLULAR RUBBER USING AMINES

John H. Kelly, Jr., Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application September 18, 1947, Serial No. 774,884
4 Claims. (Cl. 260—2.5)

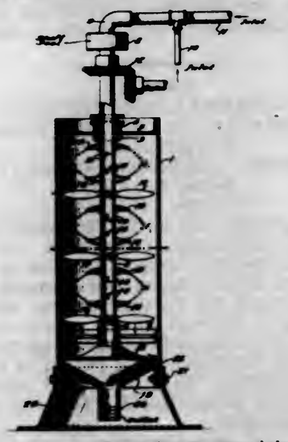
1. In a method of producing a cellular rubber wherein a rubbery polymer of polymerizable conjugated aliphatic diolefine in plastic form is mixed with compounding and curing agents and cured under conditions permitting an increase in volume, the steps which comprise incorporating in the plastic rubber polymer at least one aliphatic hydrocarbon-compatible saturated amine which is volatile at curing temperatures for rubber and has connected to aminonitrogen at least one hydrocarbon group having five to 12 inclusive carbon atoms and selected from the group consisting of aliphatic and cycloaliphatic saturated hydrocarbon groups, said amines consisting of carbon, hydrogen and nitrogen, subjecting the rubbery polymer thus formed to an elevated temperature to cause the volatilization of said amine and expansion of the rubbery polymer, allowing the heated rubbery mixture to expand and finally curing the rubbery polymer in the expanded condition, said amines being the sole blowing agent in said rubbery mixture.

2,592,709

MIXING AND HOMOGENIZING APPARATUS

William R. Kinnaird, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application February 25, 1950, Serial No. 146,273
1 Claim. (Cl. 259—8)



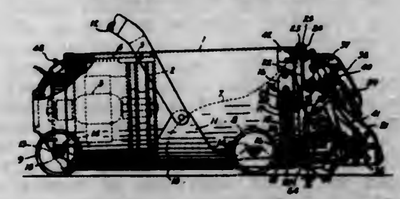
A fluid mixing apparatus comprising a vertically positioned cylindrical housing, a hollow shaft rotatably mounted in and extending axially through said housing, means for introducing fluids to said shaft, means for rotating the shaft, a plurality of pairs of dish-shaped baffles of approximately equal diameters mounted on said shaft in opposition to each other and having their peripheries vertically spaced a substantial distance apart, whereby fluid films discharging from the peripheries of the respective baffles cross each other within the housing, a set of orifices in said shaft a short distance below the upper baffle of each of said pairs and inclined upwardly toward the last-named baffle, a second set of orifices in said shaft a short distance above the lower baffle of each of said pairs and inclined downwardly toward said lower baffle, a radially extending mixing blade on said shaft between adjacent pairs of the baffles, and means for removing mixed fluids from said housing.

2,592,710

SWEEPER TYPE VACUUM CLEANER HAVING AUTOMATIC NOZZLE ADJUSTMENT

James B. Kirby, West Richfield, Ohio

Application January 26, 1948, Serial No. 4,386
7 Claims. (Cl. 15—319)



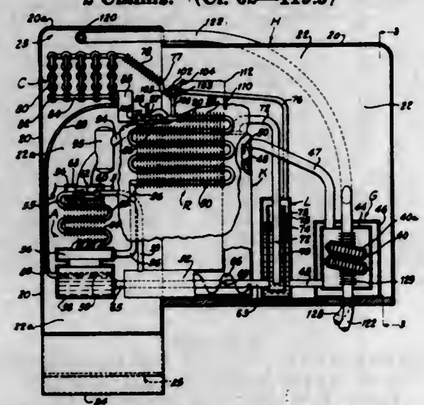
1. A suction cleaner comprising a carriage, a suction creating fan on said carriage, a floor nozzle mounted for vertical movement on said carriage from its cleaning position to an elevated position, a spring normally holding the nozzle in its elevated position, a pneumatic motor having an air chamber provided with a movable piston connected to said nozzle to impart a downward movement thereto, separate conduits connecting

said nozzle and said air chamber to said fan, a valve in said conduit connecting the fan to said chamber for controlling pressure on said piston, a diaphragm subjected on one side to atmospheric pressure and on the other to pressure within the nozzle and responsive to changes in air pressure within said nozzle, and means connecting said diaphragm to said valve to move the same to decrease or increase the downward thrust on said nozzle as the suction within said nozzle is increased or decreased.

2,592,711
FERMENTATION PROCESS
Herman Knaust and Henry Knaust, Saugerties, N. Y.
No Drawing. Application August 19, 1948, Serial No. 45,213
4 Claims. (Cl. 71—5)

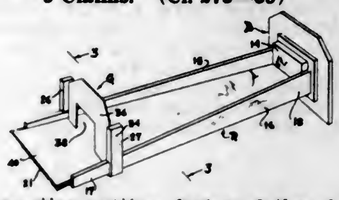
1. In a process for curing compost for use in mushroom cultivation, comprising the steps of partially curing the compost in piles in the open atmosphere, then placing the compost in trays in an enclosure for further curing, the step of introducing a current of air containing added ozone into the atmosphere surrounding the said curing trays throughout the period of the evolution of ammonia therefrom, said introduction of ozone being discontinued before the said compost is inoculated.

2,592,712
PORTABLE REFRIGERATOR
Marion F. Knoy, Long Beach, Calif., assignor to Robert T. Collier, Wilmington, Calif.
Application April 10, 1944, Serial No. 530,326
2 Claims. (Cl. 62—119.5)



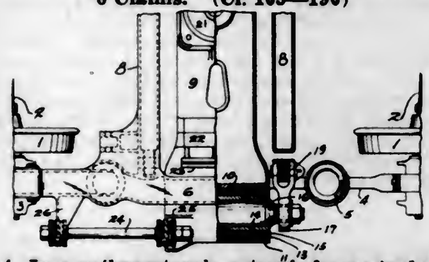
1. In combination in a vehicle: an internal combustion engine adapted to propel said vehicle and having hot fluid disposal means; a vertically extending chamber having an air intake at its bottom and an air vent at its top; refrigerant producing apparatus disposed in said chamber including a generator adapted to liberate refrigerant gas from a gas-containing absorption liquid in the generator; a compartment; a refrigerating element disposed in said compartment, said element being operatively connected with said apparatus to receive refrigerant therefrom; means connecting said hot fluid disposal means with said generator to supply heated fluid from said engine for liberating refrigerant gas from said absorption liquid; and an exhaust pipe connected with said engine for conveying exhaust gases, said pipe having an outlet disposed adjacent said air vent and adapted to induce a draft of cooling air through said chamber.

2,592,713
PRACTICE TARGET FOR PUTTING
Otto L. Koch, Woodlynne, N. J., and Perry Nix, Philadelphia, Pa.
Application January 21, 1949, Serial No. 71,857
5 Claims. (Cl. 273—35)



1. A practice putting device of the character described, comprising in combination, an inclined ramp, a backstop supporting the upper end of said ramp, and a gate swingably mounted on a horizontal axis spaced an appreciable distance above said ramp, said gate having a lower end below said axis and spaced from said ramp a slight distance when said gate assumes a vertical position over said ramp, the space between the lower end of said gate and said ramp being less than the diameter of a conventional golf ball, said gate being formed with a central aperture.

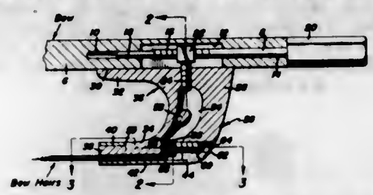
2,592,714
RAILWAY TRUCK
William C. Krautheim, Normandy, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application October 1, 1945, Serial No. 619,611
6 Claims. (Cl. 105—190)



4. In a railway truck, a truck frame including a longitudinal side member, a load-carrying bolster extending transversely of the truck and having a cylinder-like portion beneath said side member, the axis of said portion extending longitudinally of the truck, a sleeve of rubber-like material extending longitudinally of the truck beneath said side member secured to the inner face of said portion, an element enclosed by and secured to the inner face of said sleeve with an end extending beyond the side of the bolster, an arm on the end of said element and rigid therewith and extending transversely of the truck beneath said frame longitudinal side member, and a hanger suspended from said member adjacent to a side of said member and pivotally connected at its lower end to the swinging end of said arm.

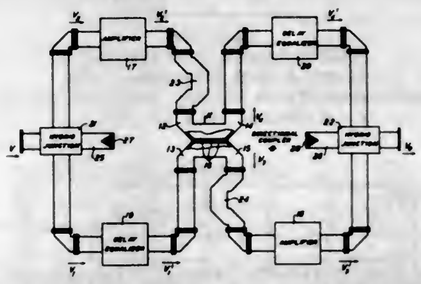
2,592,715
BOW FROG WITH IMPROVED HAIR CLAMPING MEANS
Adam P. Lesinsky, Whiting, Ind.
Application April 25, 1950, Serial No. 157,941
3 Claims. (Cl. 84—282)

1. A frog of the type herein shown and described comprising a body having a cavity opening through one marginal edge, said cavity being relatively spacious and adapted for accommodation and roomy reception and retention of surplus hairs on one end portion of a batch of bow hairs, the entrance of said cavity having at least one flat wall constituting a hair clamping anvil, said body also having a screw-threaded hole opening at one end into said cavity and opening at its opposite end through a second marginal edge on said body, said hole being at approximate right angles to said anvil, a headless set-screw screwed into and adjustable in said



hole, a relatively small clamping block swivelled on the inner end of said set-screw, operable only in the entrance portion of said cavity, opposed in parallelism to said anvil and of a size corresponding to the size of said anvil, and a second block corresponding to said first-named block, said second block being of compressible material and functioning as a pad, the latter adapted to bear directly against the hair and said first-named block respectively.

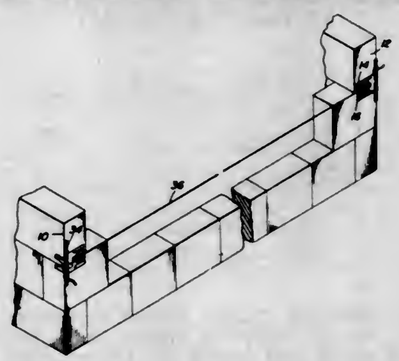
2,592,716
SELF-CORRECTING AMPLIFIER
Willard D. Lewis, Little Silver, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 25, 1949, Serial No. 83,315
8 Claims. (Cl. 179—171)



1. A microwave repeater comprising a signal input circuit, a signal output circuit, a primary conduction path and at least one secondary conduction path connected between said input circuit and said output circuit, separate amplifiers having equal gain included in each of said conduction paths, and means for substantially canceling the input signal to said amplifier in said secondary path while said primary path conducts, said means comprising a directional coupler connected in common with the output circuit of said primary amplifier and the input circuit of said secondary amplifier.

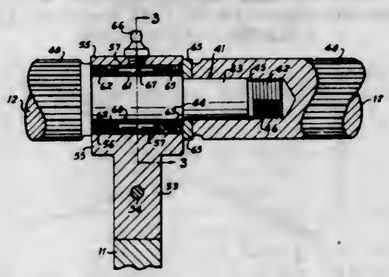
2,592,717
MASON'S LINE BLOCK
Cecil E. Mann, Pontiac, Mich.
Application October 31, 1949, Serial No. 124,597
2 Claims. (Cl. 33—85)

1. A device for use in conjunction with building constructions to assist in producing a level wall, said device comprising a pair of substantially parallel arms having plates fixed thereto which are arranged in overlying position with each other, means fastening said plates together, legs fixed to said arms at one pair of ends of said arms and being perpendicular to said arms, said arms being arranged to form a notch between said arms, a rod carried by said arms at the junc-



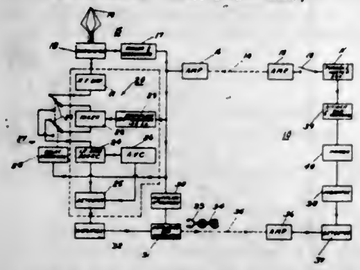
tion of said arms and said legs, said rod having end portions which protrude beyond the side edges of said arms and legs, and the end portions of said rod having a cord wrapped thereabout and passed through the notch between said legs.

2,592,718
MOUNTING FOR DRAWING ROLLS
Charles R. McGhee, Gastonia, N. C., assignor to Southern Spindle & Flyer Co., Inc., Charlotte, N. C., a corporation of North Carolina
Application November 6, 1950, Serial No. 194,232
7 Claims. (Cl. 19—134)



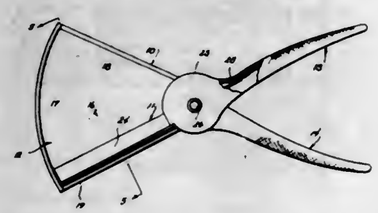
1. In a roving frame, spinning frame and the like having roll stands and also having bottom rolls therein connected together by roller necks, an improved mounting for supporting each of the roller necks connecting said bottom rolls comprising an anti-friction bearing mounted in the roll stands adjacent each of said roller necks and being of substantially less axial length than the axial length of the roller neck and surrounding the roller neck, annular lubricant seals positioned about the roller necks at opposed ends of the anti-friction bearing, means for introducing a lubricant to the anti-friction bearing, the diameter of the adjacent rolls being slightly greater than the diameters of the anti-friction bearing and the lubricant seals, the end of one of the adjacent rolls serving to hold one of said lubricant seals in position, a washer positioned about the roller neck and adapted to hold the other of said lubricant seals in position, whereby said roller necks may rotate freely in said anti-friction bearings and the lubricant seals will prevent lubricant from leaking onto the adjacent rolls.

2,592,719
REMOTE DIRECTION FINDER SYSTEM
William D. McGuigan, Waltham, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application November 19, 1949, Serial No. 128,433
5 Claims. (Cl. 343—112)



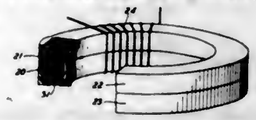
1. A direction finding system comprising: a master station including means for generating a first signal and means for transmitting the same; a remote station including means for receiving said first signal and means for receiving a second signal from a source outside of said system; means at said remote station for shifting the phase of said first signal as a function of the direction from which said second signal is received; means at said remote station for transmitting said phase-shifted signal; means at said master station for receiving said phase-shifted signal; and means at said master station for measuring the amount of said phase shift.

2,592,720
ICE-CREAM SCOOP
Mary Caroline Mercer, Midwest, Wyo.
Application September 20, 1949, Serial No. 116,730
2 Claims. (Cl. 107—48)



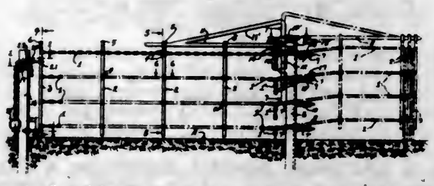
1. An ice cream scoop comprising a pair of members pivotally interconnected intermediate their length for angular movement relative to each other, one of said members including a handle at one side of the pivotal connection between said members and at the other side of said pivotal connection a body formation having a flat bottom wall of sector shape, a curved front wall extending along the wider end of said bottom wall, side walls extending one along each side of said bottom wall and mutually converging in a direction away from said front wall, and a rear wall extending between the ends of said side walls remote from said front wall, said side walls and said rear wall extending substantially perpendicularly from the same side of said bottom wall and providing with the latter a sector shaped ice cream receiving chamber, and the other of said members including a handle at one side of said pivotal connection opposed to the first mentioned handle, and at the other side of said pivotal connection a scraper blade extending from the rear wall to the front wall of said body formation and having a flat side slidably engaging the adjacent surface of said bottom wall, and spring means acting between said handle resiliently urging said scraper blade against one of said side walls, said blade being movable across said bottom wall to the other side wall by manual compression of said handles.

2,592,721
FILTER USING MAGNETOSTRICTIVE RINGS
Edward E. Mott, Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1950, Serial No. 157,531
9 Claims. (Cl. 171—209)



1. A magnetostrictive vibrator comprising a radially vibratile, ring-shaped, magnetic core composed of thin, spirally-wound, magnetic tape having thereon a layer of silica dust not exceeding 0.0005 inch in thickness, a hollow, annular housing surrounding but not touching said core, at least three spring clips circumferentially spaced around said housing and secured thereto for holding said core in position while permitting free radial vibration thereof, and a toroidal winding surrounding said housing, each of said clips comprising a spring member which bears upon one face of said core and a second spring member which bears upon another face of said core and said core being impregnated with a phenolic condensation product and magnetized circumferentially to a predetermined flux density, whereby it is polarized solely by its own residual magnetism.

2,592,722
ADJUSTABLE WIDTH GATE
Henry J. Noll, Milwaukee, Wis.
Application March 24, 1950, Serial No. 151,692
4 Claims. (Cl. 39—74)

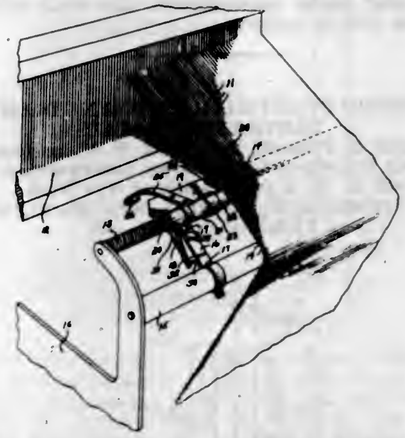


1. A flexible farm gate comprising a series of horizontally disposed flexible rails, vertically disposed standards connected to the flexible rails, a hinge-post positioned at the pivot end of the gate, spring controlled rods slidably engaging the hinge-post and connected to the ends of the flexible rails, a load supporting brace-bar having a depending swivel pintle in pivotal connection with the hinge post, a latch-post at the swinging end of said gate to the post, a circular flanged bracket secured to the end of the hinge-post engaging the brace-bar, and a lever means pivoted to the post for engaging the swivel pintle for raising the brace-bar, and rotating the same upon the circular flanged bracket.

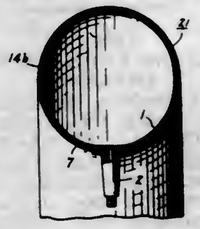
2,592,723
EDGER FOR RUG WEAVING MACHINES
Theodore Nolte, Iowa City, Iowa
Application January 21, 1949, Serial No. 71,771
3 Claims. (Cl. 139—195)

1. In combination with a rug weaving loom having a temple bar, a brace bar to the front of

the temple bar and a movable beater bar rearward of the temple bar, a rug edger, comprising; a platform having one end portion rotatably and slidably mounted on said temple bar, a bracket having one end slidably embracing said brace bar and its other end slidably embracing said temple bar, a means for limiting the sliding movement of said platform and said bracket on said temple bar, a spring having one end connected to said bracket and its other end operatively connected to said platform, a stop associated with said platform capable of engaging said bracket at times, an arm on said platform capable of being engaged by said beater bar when said beater bar is moved forwardly; said engagement causing said arm and said platform to swing downwardly, a slot in said platform, a rod finger vertically pivoted at one end to the underside of said platform and having its free end portion extending upwardly through said slot, and a flexible element having one end secured to said bracket and its other end secured to said rod finger.



2,592,724
INNER TUBE FOR PNEUMATIC TIRES AND METHOD OF MAKING
William F. O'Neil, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application March 4, 1948, Serial No. 12,935
15 Claims. (Cl. 152—349)



1. An inner tube for pneumatic tires comprising an endless inner tubular layer of a compound of a rubbery copolymer of isobutylene and a diolefinic compound which copolymer contains isobutylene in preponderance and an endless outer tubular layer of a rubbery polymer of a vulcanized, compounded, conjugated diolefinic compound of less than seven carbon atoms, and a conduit for controllably supplying inflation fluid to the cavity of said inner tubular layer, the entire inner surface of said outer tubular layer bearing against and being directly bonded by vulcanization of said outer layer to the outer surface of said inner layer, both the outer layer and the inner layer of said tube being at the same time in a natural unstressed and molded state, said outer layer having the flow characteristics of a rubber layer that has been vulcanized in contact with a prevulcanized inner layer and in contact with a rigid, annular forming surface.

4. A method of making tubes for retaining air in pneumatic tires which comprises flattening portions of an endless fluid-retaining base tube, which is formed principally of a vulcanized compounded copolymer of isobutylene and a diolefinic compound copolymerizable therewith, applying against the entire flattened outer surface of said base tube a layer of a vulcanizable rubber compound to form a composite tube blank having an outer continuous wall formed of an inner endless tubular layer of said vulcanized compounded copolymer and an outer endless layer of said vulcanizable rubber compound, and bonding the said inner and outer layers directly together over their entire contacting areas by curing the composite tube blank in an annular mold under pressure applied to the cavity of said base tube.

2,592,725
UPHOLSTERY TUFT FASTENER
Edward D. Oram, Burbank, Calif.
Application January 5, 1951, Serial No. 204,641
2 Claims. (Cl. 24—152)

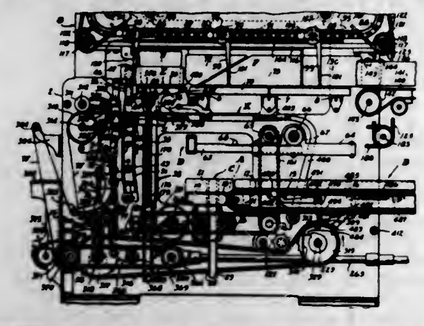


1. A tuft fastener for upholstery comprising a wire rod, an eye at one end of said wire rod adapted to be engaged with a tuft button, a resilient hook at the other end of said wire rod adapted to lockingly engage in the body of an article of upholstery when the rod is thrust into said body, the bend of said hook being of small radius, whereby the hook defines a relatively sharp point, and a reversely directed resilient arm at the end of said hook, said arm extending toward said rod at an acute angle thereto and being also at an acute angle to the end portion of said hook.

2,592,726
WRAPPING MACHINE
William C. Palmer and Arthur A. Kottmann, Davenport, Iowa, assignors to The Bettendorf Company, Bettendorf, Iowa, a corporation of Maryland
Application November 24, 1948, Serial No. 61,784
13 Claims. (Cl. 53—111)

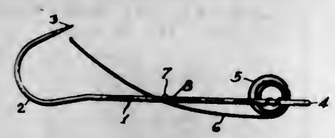
1. In a wrapping machine having infeed and discharge conveyors of the flight type, carrier means for transferring articles from the infeed conveyor to the discharge conveyor, a reciprocating member, means for actuating the conveyors including an overrunning clutch operably connected to said reciprocating member to be actuated thereby during movement of said member in one direction for imparting intermittent movement to the conveyors with a dwell period after each movement, means for actuating the carrier means including a second overrunning clutch operatively connected to said reciprocating mem-

ber to be actuated thereby during movement of said member in the opposite direction for imparting intermittent movement to the carrier means with a dwell period after each movement, thereby



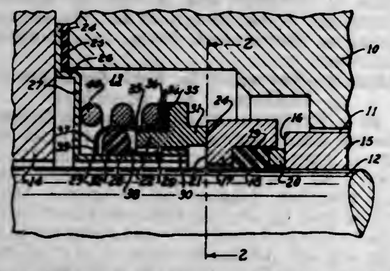
providing carrier means movement during the dwell period of the conveyors and conveyor movement during the dwell period of the carrier means.

2,592,727
AUTOMATIC FISHHOOK
Andrew F. Pamer, San Francisco, Calif.
Application May 7, 1951, Serial No. 224,983
3 Claims. (Cl. 43—15)



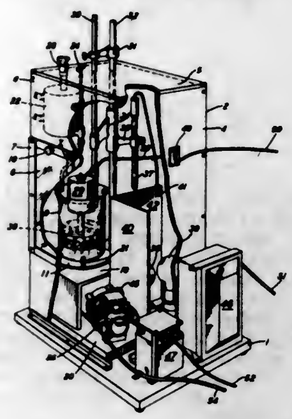
1. In an automatic fish hook, a shank having an eye at one end and a pointed hook at its opposite end, a coiled spring secured at its inner end to the shank and arranged with its convolutions extending loosely through the eye, and an extension connected to the outer convolution of the spring, the said extension in a set position being adapted to extend across the shank to a position adjacent the pointed end of the hook, and means on the shank and the extension for releasably holding the extension in its set position.

2,592,728
ROTARY MECHANICAL SEAL
Frank E. Payne, Glencoe, Ill., assignor to Crane Packing Company, Chicago, Ill., a corporation of Illinois
Application December 4, 1948, Serial No. 63,567
3 Claims. (Cl. 286—11.14)



1. A seal for relatively rotatable elements having a sealing washer on one element, a seal seat on the other element, and means for effecting a seal between the washer and the said one element, said sealing means comprising a member defining an annular space adjacent said one element and having a substantially radially disposed abutment adjacent said washer, packing means disposed in the annular space and compressed radially between the member and said one element to effect a fluid-tight seal therebetween, and resilient sealing means disposed between the abutment and the washer to effect a fluid-tight seal between said washer and member, said packing means comprising an endless ring of resilient compressible material having a circular radial cross-section, and said member being axially movable.

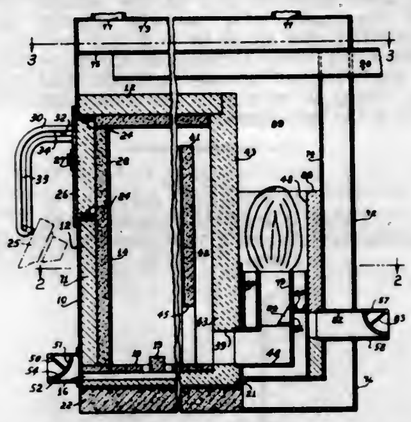
2,592,729
METHOD OF ETCHING ETHYLENE DIAMINE TARTRATE CRYSTALS
Everett S. Pennell, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 25, 1949, Serial No. 95,216
2 Claims. (Cl. 41—42)



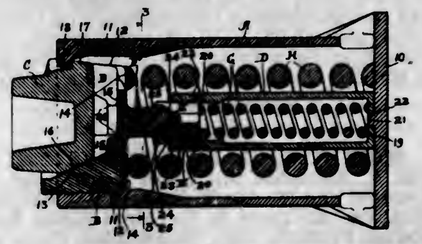
1. The method of etching ethylene diamine tartrate crystals which comprises immersing said crystals in a mixture of water and propyleneglycol in controlled proportions for a desired time, lifting said crystals from said mixture, and instantaneously drying the surface of said crystals, while maintaining said crystal, and said water, and propylene-glycol mixture at a temperature of at least 41° C.

2,592,730
GAS-PRODUCING FURNACE AND BURNER THEREFOR
Robert C. Perkins, Worcester, Mass.
Application April 5, 1946, Serial No. 659,830
9 Claims. (Cl. 110—31)

1. A household wood fuel combustion furnace comprising a single outer casing providing spaces for a gas combustion zone and a gas producing chamber, refractory walls within said casing forming a gas producing chamber having a fuel inlet opening an air inlet and a gas exit opening and which comprise an outer layer of refractory material of low heat conductivity for protecting the adjacent portions of the casing, an inner layer of shock resistant refractory material of high heat absorption capacity contiguous to the outer layer, a floor of shock resistant refractory material for supporting the fuel adjacent to the air inlet, and a removable closure for sealing the fuel inlet opening, the interior wall portions of the chamber being capable of withstanding and impounding the developed heat of combustion and thereby operatively maintain the gas and fuel superheated at a temperature in excess of 1800° F., regulatable means for supplying only a controlled amount of air to the air inlet and governing the fuel combustion and the production of producer gas in said chamber, a burner pipe leading from the producer chamber gas exit opening and having a burner at its outer end, means for admitting air in excess to the gas issuing from the burner, and means within said casing, including heat exchanging walls, which forms a zone for the combustion of the producer gas issuing from the burner.

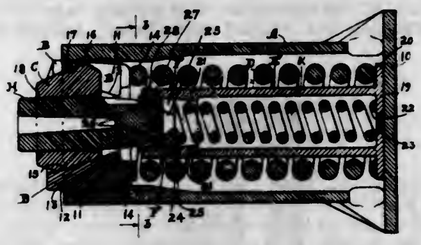


2,592,731
FRICTION SHOCK ABSORBING MECHANISM FOR RAILWAY CARS
Arnold G. Peterson, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application April 28, 1950, Serial No. 158,656
2 Claims. (Cl. 213—34)



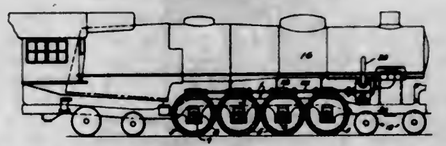
1. In a friction shock absorbing mechanism, the combination with a main friction casing having a closed rear end; of friction shoes slidingly telescoped within the other end of said casing; a wedge pressure transmitting member in wedging engagement with said shoes; and means yieldingly opposing inward movement of said shoes including a spring and a friction unit, said friction unit including a second friction casing within the first named casing, friction shoes slidingly telescoped within said second named casing, a spring within said second named casing yieldingly opposing inward movement of said second named shoes, said first named spring surrounding said second named casing, and said second named spring and friction unit being interposed between the closed rear end of said first named casing and said first named shoes.

2,592,732
FRICTION SHOCK ABSORBING MECHANISMS FOR DRAFT RIGGINGS OF RAILWAY CARS
Arnold G. Peterson, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 15, 1950, Serial No. 162,055
10 Claims. (Cl. 213—36)



1. In a friction shock absorbing mechanism, the combination with a main shock absorber; of an auxiliary shock absorber, each of said shock absorbers comprising a wedge, friction shoes, a spring, and a friction casing containing said spring and within which said friction shoes are slidingly telescoped, said spring yieldingly opposing inward movement of said shoes, and said wedge being in wedging engagement with the shoes, the wedge of said auxiliary shock absorber projecting outwardly beyond the wedge of the main shock absorber to receive the actuating force during the entire compression stroke of the mechanism, and independently of the wedge of said main shock absorber, during the first part of the compression stroke.

2,592,733
RAILWAY LOCOMOTIVE STRUCTURE
Harry M. Pflager, St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application July 25, 1945, Serial No. 606,993
14 Claims. (Cl. 105—38)

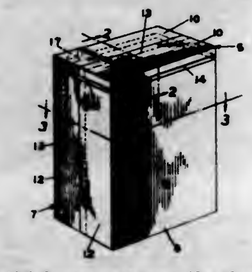


1. In a railway locomotive, an underframe with fixed pedestals, a series of wheeled axles having journal boxes at the outer sides of the wheels and slidable vertically in said pedestals, a spring structure supporting said underframe from said wheels, a drive for each wheeled axle including a worm wheel journalled in said underframe and having a vertically flexible operative engagement with the adjacert wheeled axle mounted on the underframe, and means for driving said worm wheels comprising a turbine with drive shaft mounted on the underframe with worm connection to said worm wheels.

2,592,734
CONTAINER
Charles B. Pike, Santa Fe, N. Mex.
Application October 25, 1946, Serial No. 705,549
3 Claims. (Cl. 220—53)

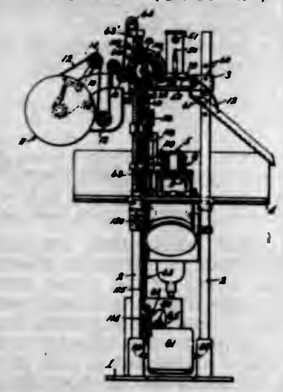
2. In a container, a pair of sections each having a bottom wall, a top wall, a side wall, and a front end wall, said sections having a rear end

wall in common, said bottom walls, top walls, side walls, and front end walls having free edges secured in overlapping relation whereby a double thickness area extends horizontally along the bottom and the top of the container and vertically along the front end of the container, and a ripping tape secured to the exterior of the container and extending horizontally entirely around the container in downwardly spaced relation to the top of the container, said ripping tape having a terminal end located immediately adjacent to



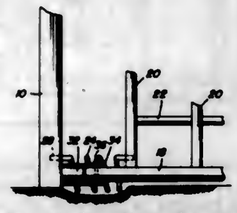
the double thickness area on the front end of the container and another end overlapping said terminal end and loose therefrom to serve as a tab, said ripping tape having a branch extending transversely across the top of the container and connected at its opposite ends to the ripping tape extending along the container side walls, the said branch and the remainder of the ripping tape defining different paths along which the container can be selectively ripped by pulling upon the tab.

2,592,735
PHOTOGRAPHIC PROJECTION PRINTING MECHANISM
Paul S. Pirmov, Shelburne, Mass.
Application November 1, 1949, Serial No. 124,885
1 Claim. (Cl. 88—24)



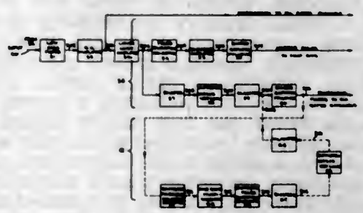
In an automatic photographic printing device having means including a lamp for projecting an image from a photographic negative, a table member adjustably spaced from said projection means and adapted to support the leading end portion of a web of sensitized paper, an opening in the table through which the sensitized surface of a part at least of said portion of the web is exposed to said image, a roll to feed the web over the table, solenoid actuated means to stamp an order identifying number on the reverse side of the portion of the web exposed through said opening, solenoid actuated cutting means to sever the fed portion of the web, a common switch controlling said solenoids, an oscillatory shaft, means to oscillate said shaft, a cam carried by said shaft positioned to actuate said solenoid control switch during the initial movement of said shaft in one direction, means connected to said shaft oscillating means to actuate the projection lamp control switch during the terminal portion of the movement of said shaft in the same direction and at the termination of said movement, and one-way driving means connecting said shaft to said web feeding roll, to drive the latter throughout the movement of the shaft in the opposite direction, and adjustable means to terminate the movement of said shaft in the last-named direction.

2,592,736
AUTOMATIC GATE
Ralph Q. Puckett, Payette, Idaho
Application August 8, 1949, Serial No. 109,192
2 Claims. (Cl. 39—24)



1. In a gate construction, in combination, a pair of stationary upright gate posts adapted to form portions of a fence, a laterally projecting arbor on one side of each of said gate posts adjacent the lower ends of the latter, an upright vertically swingable gate member disposed between said gate posts, said gate member having a horizontally disposed rock shaft adjacent its lower end and a plurality of spaced upstanding pickets, open ended sleeves concentrically mounted to ends of said rock shaft, said sleeves being telescopically fitted over the respective arbors, the ends of said rock shaft being in coaxial spaced alignment with adjacent ends of each arbor, the ends of said sleeves adjacent said gate posts being spaced from said gate posts, and coiled springs mounted concentrically on the ends of said rock shaft, each of said springs being anchored at its ends to one of said gate posts and one end of said gate member respectively.

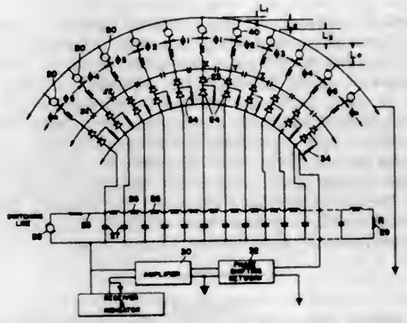
2,592,737
MULTIPLEX TELEMETRIC SYSTEM
Foster N. Reynolds, Jr., Upper Darby, and Sol Zechtzer and Martin V. Kiebert, Jr., Philadelphia, Pa., assignors to Raymond Rosen Engineering Products, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application October 11, 1950, Serial No. 189,582
14 Claims. (Cl. 177—351)



1. In a multiplexed telemetering system having means for deriving interchannel switching impulses from a signal train of information

pulses, means for locally producing a switching impulse missing from said signal train comprising an electronic system suited to generate pulses at repetition rate somewhat slower than the repetition rate of said information pulses, and electronic means upon which said switching impulses are impressed to initiate successive cycles of said local pulse-producing system and to preclude completion thereof so long as the interval between successively applied impulses does not exceed the normal interval between successive information pulses.

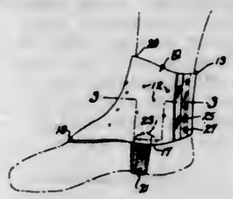
2,592,738
ELECTRONICALLY CONTROLLED LOW IMPEDANCE PHASE SHIFTING DEVICE
Stanley R. Rich, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of the Navy
Application September 19, 1945, Serial No. 617,367
4 Claims. (Cl. 177—386)



1. In a sonar scanner an arcuate array of transducer elements each coupled to a transducer output, a pulsed switching delay line terminating in a characteristic impedance and having a number of equal incremental line impedances corresponding to the number of said transducer elements, circuit means connecting the transducer element outputs to successive ones of said incremental line impedances, respectively, a varistor in each said circuit means, whereby a pulsed voltage progressing along said switch line causes voltages from successive transducer elements to be conducted through said varistors, respectively, an amplifier connected to said transducers through said varistors whereby the respective transducer outputs voltage is coupled to said amplifier upon conduction of the associated varistor, a phase shifting network in the output circuit of the amplifier, and means connecting the output circuit of said phase shifting network to said transducer output, whereby the output thereof is the vectorial sum of the shifted and unshifted voltage components.

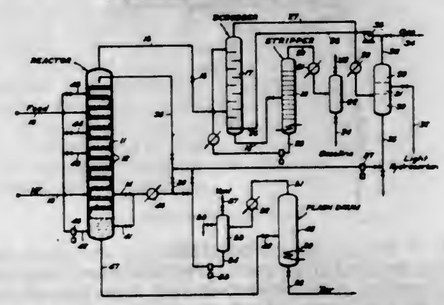
2,592,739
ANKLET
James A. Richardson, Burlingame, Calif.
Application November 14, 1949, Serial No. 127,042
14 Claims. (Cl. 128—166)

1. An article of clothing for protecting the foot and ankle from chafing and other injury traceable to tightly laced boots, for filling the hollow places adjacent the ankle, and for supporting the foot and ankle against strain, comprising an anklet of multi-perforated sponge rubber adapted to be secured around the ankle and the upper portion of the foot, said anklet being flared out from a narrow portion, adapted to lie at the rear of the ankle, toward the sides and front, so that said anklet fills the hollows adjacent the ankle as well as covering all the ankle itself, said anklet being widest at the front and providing there a convexly curved upper portion which extends



substantially above the height of the ankle to protect the limb from the bite of a short boot and providing a tongue at the lower front edge which extends over a substantial upper portion of the foot.

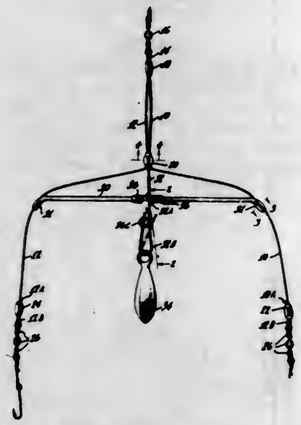
2,592,740
CATALYTIC CONVERSION WITH HYDROFLUORIC ACID
John A. Ridgway, Jr., Texas City, Tex., assignor to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware
Application August 30, 1947, Serial No. 771,501
3 Claims. (Cl. 196—52)



1. The method of converting a hydrocarbon which is higher boiling than gasoline into lower boiling hydrocarbons at least some of which are unsaturated, which method comprises introducing hydrocarbons higher boiling than gasoline at a high level in a countercurrent contacting zone at a temperature in the range of about 200° to 400° F., introducing at a low level in the contacting zone a stream of hydrogen fluoride vapors heated to a temperature in the range of 300° to 500° F. which is higher than the temperature at which hydrocarbons are introduced, countercurrently contacting said hydrogen fluoride vapors and hydrocarbons in said contacting zone under a pressure in the range of 200 to 1200 pounds per square inch which is sufficiently high to maintain hydrocarbons higher boiling than gasoline in liquid phase and sufficiently low to effect condensation of only a part of the hydrogen fluoride vapors and to permit vaporization of reaction products lower boiling than gasoline, whereby a portion of the introduced hydrogen fluoride vapors are condensed in liquid phase hydrocarbons and contacted therewith under conditions to effect catalytic cracking thereof with a catalyst consisting of liquid hydrogen fluoride into low boiling products which are immediately vaporized and carried upwardly in uncondensed hydrogen fluoride vapors without undergoing the further conversion which would take place if said products remain in contact with

liquid hydrogen fluoride under the defined conditions, introducing the heated hydrogen fluoride vapors at such a rate as to carry the low boiling conversion products with uncondensed hydrogen fluoride vapors upwardly out of the top of the contacting zone, removing from the bottom of the contacting zone hydrocarbons which are higher boiling than those introduced into the contacting zone and separately removing hydrogen fluoride from the low boiling products withdrawn from the top of the contacting zone and from the high boiling products withdrawn from the bottom of the contacting zone, respectively.

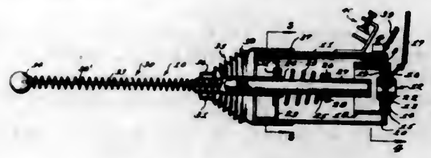
2,592,741
FISHING LINE SPREADER
George N. Ristine, Philadelphia, Pa.
Application May 22, 1950, Serial No. 163,503
2 Claims. (Cl. 43—42.74)



1. A fishing leader comprising a one-piece element doubled over for a predetermined distance, a clamping sleeve clamped over a portion of said one-piece element to form a loop adjacent the doubled over portion of said one-piece element, a piece of wire, a second clamping sleeve spaced from said first sleeve holding said doubled over portion of said element to provide strands in parallelism and said piece of wire, said wire having a closed loop at a predetermined distance from said clamping sleeve and a partially open loop at a distance from said closed loop and a hook at the end of said wire whose free end is adjacent said partially open loop; a spreader bar passing through said closed loop, the ends of said spreader bar being formed into downwardly turned clamps clamped on different portions of said one-piece element, and a pair of metal sleeves fixedly clamped on said spreader bar on each side of said closed loop to hold said spreader bar in fixed relationship with said wire.

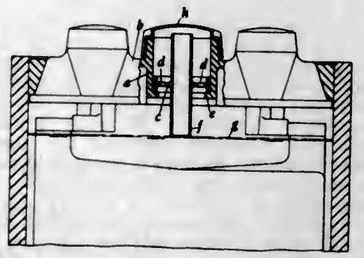
2,592,742
CURB PROXIMITY SIGNALING DEVICE
Archie B. Rose, Merkel, Tex.
Application July 18, 1950, Serial No. 174,455
5 Claims. (Cl. 200—52)

1. A switch for curb proximity signalling apparatus for an automobile comprising a hollow housing adapted to be mounted on an automobile fender and having one end open and an apertured end wall closing its other end, a cup-shaped fixed contact element disposed within said housing adjacent said end wall and electrically insulated from the latter, means extending through the aperture in said end wall securing said fixed contact element to said end wall and providing an electrical conductor leading from said fixed contact element, an apertured support secured in said housing between said fixed contact and the open end of the housing, a movable contact element extending through the aperture in said support and having one end received in said fixed contact element, means acting between said movable contact element and said support resiliently centering said one end of said movable contact



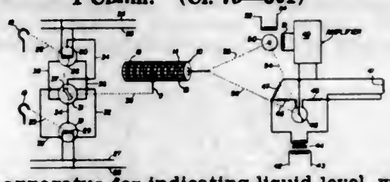
element relative to said fixed contact element but providing resiliently resisted freedom of pivotal movement of said movable contact element relative to said support for contact of said one end of said movable contact element with said fixed contact element at random positions around the latter, and a flexible feeler secured at one end to said movable contact element at the other end of the latter and extending longitudinally from said movable contact element to impart pivotal movement to said movable contact element upon engagement of said feeler with a curb.

2,592,743
FILLING DEVICE FOR ELECTRIC STORAGE BATTERIES
John Rule, Birmingham, England, assignor to Joseph Lucas Limited, Birmingham, England
Application January 9, 1950, Serial No. 137,510
In Great Britain January 24, 1949
1 Claim. (Cl. 136—177)



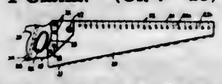
A filling device for an electric storage battery, comprising in combination a filling neck, a screen of piston-like form slidable in the neck and formed with perforations through which liquid can flow, and a venting tube which is rigid with the screen and extends through the neck, and which is sealable at its lower end by the battery liquid upon the latter reaching a desired level, the perforations in the screen being sufficiently small in size to be sealed by liquid in the upper part of the neck when air can no longer escape through the venting tube, and the lower end of the neck being provided with an internal shoulder on which the screen is supported, but from which the screen can be raised by gas pressure in the battery to lift the venting tube and thereby permit any liquid remaining in the neck after a filling operation to drain through the perforations in the screen.

2,592,744
LIQUID LEVEL INDICATOR
Charles J. Ryant, Jr., Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application March 30, 1949, Serial No. 84,316
1 Claim. (Cl. 73—301)



An apparatus for indicating liquid level, which apparatus comprises a drum member mounted for rotation about its axis, a chart bearing a series of lines of increasing obliqueness and indicating volumes (which in turn determine liquid levels) at temperatures forming the chart ordinates and hydrostatic pressures forming the chart abscissas, said chart being carried on a drum with its ordinates around said drum and its abscissas along the side thereof parallel to its axis, an indicating pointer mounted for movement in a plane parallel to the longitudinal axis of the drum member and adjacent the surface thereof, a pressure differential translator consisting of a pair of expansible members movable in response to pressure for effecting hydrostatic pressure measurement, a pair of servomotors with the shaft of each motor mechanically linked to one of said expansible members, a differential servomotor electrically connected to said pair of servomotors and having a shaft mechanically linked to said pointer for causing movement thereof, and a temperature translator consisting of a continuous balance potentiometer pyrometer system having a rebalancing motor operatively connected to cause rotation of said drum member.

2,592,745
SQUARING CARPENTER'S SAW
Ewald Salin, New York, N. Y.
Application August 16, 1948, Serial No. 44,548
1 Claim. (Cl. 7—13)

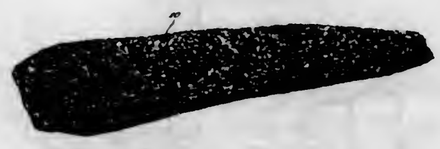


In a hand saw of the type having a saw blade and a handle clamped thereto, the blade having a longitudinal straight ruling edge and a conventional toothed cutting edge, the improvement comprising an extension of the handle, said extension increasing in thickness from the ruling edge of the blade toward the toothed cutting edge thereof, thereby forming a tapered shoulder where the extension joins the handle, said shoulder extending at right angles to the ruling edge of the blade, whereby with the shoulder placed against the edge of the work and the extension lying flat on the surface of the work, the ruling edge of the blade will lie on the surface and the toothed edge will be spaced from the surface of the work so as to avoid marring thereof.

2,592,746
PROCESS OF MAKING ALKALI CELLULOSE
Hans Olof Samuelson, Gothenburg, Sweden, assignor to Mo och Domsjö Aktiebolag, Ornskoldsvik, Sweden, a corporation of Sweden
No Drawing. Application November 8, 1949, Serial No. 126,235. In Sweden November 11, 1948
5 Claims. (Cl. 260—233)

1. In a process of making alkali cellulose the steps of treating cellulosic material with mercerizing liquor to form alkali cellulose, removing excess mercerizing liquor from said alkali cellulose, subjecting said alkali cellulose to ageing in order to decrease its polymolecularity with attendant formation of alkali soluble products therein, treating the aged alkali cellulose with mercerizing liquor to dissolve said alkali soluble products, and removing excess mercerizing liquor containing said alkali soluble products from said alkali cellulose, the temperatures of the mercerizing liquors used in the two mercerizing steps differing by at least 10° C.

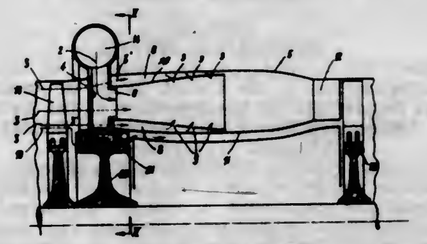
2,592,747
LATEX IMPREGNATED LUFFA AND METHOD OF PREPARING THE SAME
Hans Maassen Schumann, Philadelphia, Pa.
Application March 30, 1949, Serial No. 84,325
12 Claims. (Cl. 154—140)



1. The method of preparing the vascular tissue of the pericarpial skeleton of a plant of the genus Luffa which comprises drying the skeleton; in immersing the dried skeleton in a bath of latex; removing the skeleton from the bath and draining away excess latex; cutting the skeleton longitudinally, separating the vascular bundles from one another and spreading it out; and drying the opened skeleton.

4. The method of claim 1 where inner portions of the vascular bundles are removed and secured between outer portions.

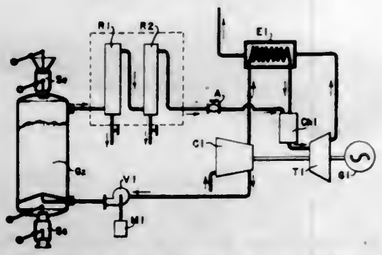
2,592,748
ANNULAR COMBUSTION CHAMBER WITH HOLLOW AIR GUIDE VANES WITH RADIAL GASIFORM FUEL SLOTS FOR GAS TURBINES
Marcel Henri Louis Sédille, Paris, France, assignor to Societe Rateau (Société Anonyme), Paris, France, a company of France, and René Anxionnaz, Paris, France, jointly
Application June 11, 1945, Serial No. 598,763
In France February 17, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 17, 1964
3 Claims. (Cl. 60—39.36)



1. A gas-turbine power plant comprising an annular combustion chamber, an axial-flow compressor for supplying air to said chamber, circularly distributed, stationary, hollow vanes at the discharge end of said compressor, adapted to divide the flow of air issuing therefrom into a

plurality of generally radial, spaced layers of air, each of said vanes having a generally radial, slot-like passage opening on to said combustion chamber, and a feed manifold connected to said hollow vanes and adapted to supply therethrough gaseous fuel to said chamber, whereby a plurality of generally radial, spaced layers of gaseous fuel are formed between successive layers of air.

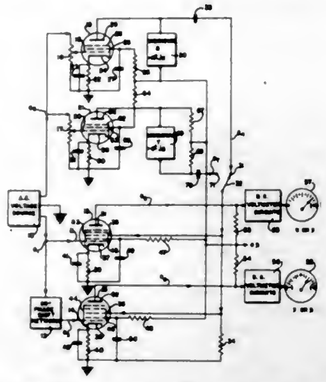
2,592,749
GAS TURBINE ENGINE ASSOCIATED WITH A GAS PRODUCER UNDER PRESSURE
Marcel H. L. Sédille, Paris, and Paul H. Ménard, Eaubonne, France, assignors to Societe Rateau (Societe Anonyme), Paris, France, a company of France, and René Anxionnaz, Paris, France, jointly
Application November 13, 1947, Serial No. 785,772
In France January 16, 1947
7 Claims. (Cl. 60—39.12)



1. The combination with a gas turbine plant including an air compressor, a combustion chamber connected to the delivering side of said compressor so as to be fed with combustion air therefrom and a gas turbine connected to the exit of said combustion chamber so as to be fed with motive gases therefrom, of a combustible gas producing plant comprising a combustion gas producer adapted to operate and deliver combustible gas under a pressure much greater than that existing in said combustion chamber, a second air compressor the suction side of which is connected to the delivering side of the first-named compressor while its delivering side is connected to the air inlet of said gas producer so as to supercharge it, and a second gas turbine the inlet of which is connected to the gas delivering side of said gas producer while its exit is connected to said combustion chamber in order to feed said chamber with combustible gas, said second gas turbine being adapted to expand the combustible gas from the high pressure existing in said gas producer to the pressure in said combustion chamber.

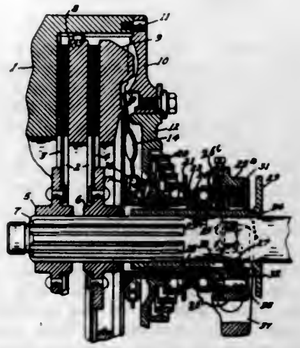
2,592,750
IMPEDANCE METER
Walter Selove, Chicago, Ill., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 3, 1946, Serial No. 666,883
3 Claims. (Cl. 175—183)

3. Apparatus for determining the effective resistance and reactance components of a complex impedance comprising, a source of alternating current power, a multigrid electron tube biased from said source to operate with an alternating output current of constant effective value, means for connecting said impedance in the output circuit of said tube, thereby producing a voltage in phase with said current proportional to the effective resistance of said impedance and a voltage in quadrature with the phase of said current proportional to the reactance of said impedance, means for obtaining in-phase and quadrature voltages from said source, a second multigrid electron tube responsive directly to in-phase voltages from said source and from the output circuit of said first-named electron tube to produce unidirectional output voltages proportional to said resistance component of said impedance and a third multigrid electron tube responsive di-



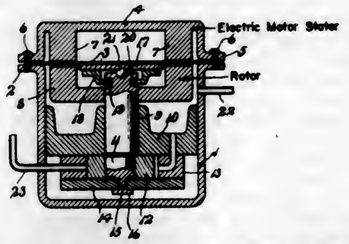
rectly to said quadrature voltages from said source and from the output circuit of said first-named electron tube to produce a unidirectional output voltage proportional to said reactance component of said impedance, and means for indicating the magnitudes of each of said unidirectional output voltages in terms of said components of said impedance.

2,592,751
INERTIA BRAKE
Paul Serednicky, North Syracuse, and George T. Jarrett, Syracuse, N. Y., assignors to Lipe-Rollway Corporation, Syracuse, N. Y., a corporation of New York
Application October 22, 1949, Serial No. 123,054
7 Claims. (Cl. 192—12)



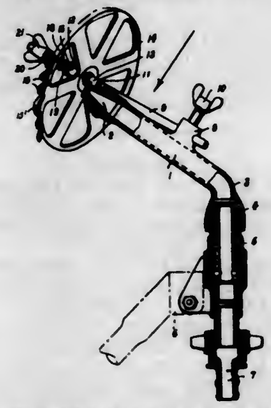
1. A clutch throw-out and brake mechanism for clutches having a driven clutch shaft, said mechanism comprising a non-rotatable, axially shiftable, throw-out member enclosing said shaft and brake shoes pressing radially when operated against the shaft, the shoes being located within the throw-out member and supported to be held from orbital movement, the shoes and the throw-out member having coacting cam means to press the shoes radially inward at the end of the throw-out operation of the throw-out member.

2,592,752
SEAL FOR AXIAL AIR GAP INDUCTION MOTORS
Osborne H. Shenstone, Muskegon, Mich.
Application January 17, 1949, Serial No. 71,384
4 Claims. (Cl. 172—36)



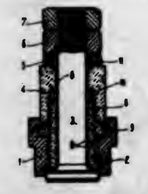
1. In a structure of the class described, a a hollow housing having walls, closed at one end, a flexible diaphragm across and closing and sealing the other end of the housing, a rotor of an axial air gap induction motor and a shaft therefor located within said housing with the rotor in close proximity to the inner side of the diaphragm, means for rotatably mounting the shaft, a stator of an axial air gap motor detachably secured to said housing at the outer side of said diaphragm, means for limiting the longitudinal movement of said shaft, and interlocking means within the housing connecting the shaft with the diaphragm comprising a relatively rigid plate of metal secured to the inner side of the diaphragm, a ring secured to the inner side of said plate, said shaft extending at its adjacent end into said ring centrally thereof toward said plate, said shaft having an annular groove adjacent said end and said ring having an annular flange extending into said groove, providing an interlocking connection between the shaft and diaphragm limiting inward or outward flexing of the diaphragm due to variations of pressure within the housing.

2,592,753
WATER SPRAYER
Miroslav Sigmund, Gosforth, England
Application November 26, 1947, Serial No. 788,136
In Great Britain October 3, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires October 3, 1965
2 Claims. (Cl. 299—69)



1. A water sprayer comprising a support element, a jet nozzle mounted for rotation on said support element and adapted to project a water jet at an upward inclination when in use, a spindle carried on said jet nozzle and making a lateral acute angle with the axis of said jet nozzle, a sleeve mounted for rotation on said spindle, a rotary diffuser mounted on said spindle for rotation on, and movement along said spindle, said diffuser including a plurality of radial vanes disposed in places inclined to the axis of rotation of said diffuser and adapted to project into the path of a water jet projected by said jet nozzle so that said diffuser is rotated on said spindle by said water jet and is moved longitudinally in one direction along said spindle by said water jet and said vanes progressively withdrawn from the path of said water jet, braking means adapted to resist rotation of said sleeve on said spindle, and a sliding dog clutch between said sleeve and said diffuser adapted to effect clutching engagement between said sleeve and said diffuser when said diffuser has been moved on said spindle to a predetermined extent by said water jet.

2,592,754
SURFACE DISCHARGE SPARK PLUG
Wytze Beye Smits, Voorburg, Netherlands, assignor to Smitsvonk N. V., Rijswijk, Netherlands
Application June 2, 1950, Serial No. 165,632
In the Netherlands December 14, 1945
1 Claim. (Cl. 123—169)

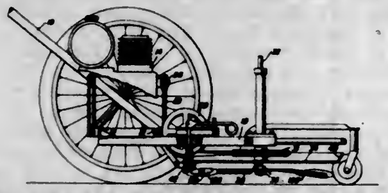


Surface discharge spark plug comprising, in combination, a housing, a leading-in insulator, a conductor passing through said insulator for the electrical connection of the spark plug, a central inner electrode, at least one annular electrode surrounding said central electrode, a member of at the most semi-conductive material separating said electrodes, said electrodes and said separating member constituting an insert member on the exposed surface of which the igniting sparks sweep, and an electrically insulating plastic organic substance provided between said electrodes and said separating member, said substance extending along the entire adjoining faces of the separating member and the electrodes to the active surface of the plug and taking up the differences due to the differences of the coefficients of expansion of said electrodes and said separating member when the temperature during operation varies and keeping the joints between said parts closed in a gas-tight manner.

2,592,755
ROTATING CUTTER BAR
Edwin Soenksen, De Witt, Iowa
Application July 28, 1949, Serial No. 107,183
12 Claims. (Cl. 56—295)

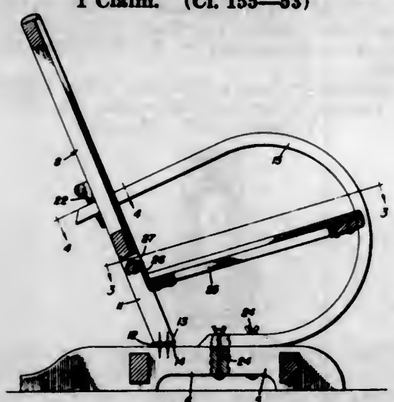
1. A cutter blade for mowers comprising a cutter bar, means mounting the latter for rotation about an axis perpendicular to the bar, said bar having a flat end, a flat knife overlying and pivoted to said flat end, means detachably and pivotally securing said knife to said flat end, centrifugally actuated means for locking said pivot means to said flat end, said flat end having an elongated slot extending lengthwise of said cutter bar, said pivot means being attached to

said knife and extending through said slot, said slot having an enlarged portion at its end disposed inwardly of the flat end, said pivot means



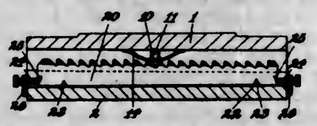
being retained in said slot and slidable longitudinally thereof and being removable through said enlarged portion.

2,592,756
ROCKING CHAIR
John Spence, Hackensack, N. J.
Application April 5, 1949, Serial No. 85,629
1 Claim. (Cl. 155—53)
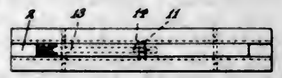


A chair comprising a base, a back pivoted on said base for forward and rearward rocking movement thereon, a pair of resilient bow-shaped members forming combined arms and legs and being secured at opposite ends thereof to said back and base for flexing to compensate for rocking movement of said back, a seat, means pivotally suspending said seat to said back to compensate for rocking movement of said back, and means pivotally suspending said seat to said members for engagement with said members whereby to limit rocking movement of said back including hanger hooks on said seat, said members having recesses therein into which said hooks extend, and pins in said recesses over which said hooks engage.

2,592,757
PARALLEL WEDGE GAUGE
Dudley Ernest Stainton, Rickmansworth, England
Application February 24, 1948, Serial No. 10,326
In Great Britain February 8, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 8, 1964
5 Claims. (Cl. 33—162)



1. A precision slip gauge comprising a pair of elements having parallel gauging faces providing a nominal height to the gauge, co-operating contacting faces inclined to said parallel gauging faces, said elements being relatively slidable along the inclined surfaces, without transverse separation of the elements, to cause variations in the distance between said gauging faces and an alteration in said nominal height, a series of regularly spaced buttress teeth mounted in fixed operative relation of one of said elements and extending in the direction of said sliding movement, the pitch of said teeth conforming to uniform increments of said nominal height, each of said buttress teeth having a face at right angles to said gauging faces, the other element having a transverse slot the major axis of which lies in a plane parallel to said toothed faces, a spring biased pin mounted in said slot to lie in a space between said teeth and in engagement with one of said tooth faces to locate and hold the elements in longitudinal adjusted relation conforming to the increments of the nominal height.

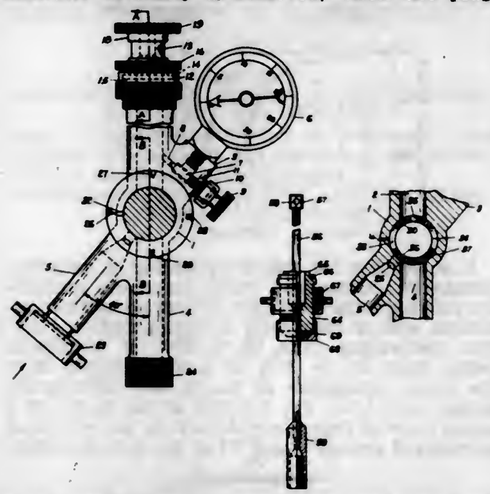
2,592,758
WEDGE PARALLEL GAUGE
Dudley Ernest Stainton, Rickmansworth, England
Application February 24, 1948, Serial No. 10,327
In Great Britain February 8, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires February 8, 1964
3 Claims. (Cl. 33—162)



1. A precision adjustable slip gauge comprising a pair of elements of wedge shape cooperating to provide parallel gauging faces and relatively slidable on their inclined face to vary the distance between said parallel faces, one element having a longitudinal aligning tongue projecting from its inclined face said tongue having parallel side faces, the other element having a longitudinal groove extending throughout its inclined face, said tongue being located in said groove and slidably engaging faces of said groove, said groove having transversely inclined surfaces, said tongue having a transverse hole, and a longitudinal bore intersecting said hole, and locking means for locking the elements against relative movement comprising a pair of balls located in said hole and engaging said inclined surfaces, a rod located in said bore and having a coned end located between and engaging said balls and means for adjusting the rod longitudinally in said bore to cause separation of the balls and movement thereof down said inclined surfaces of said bore.

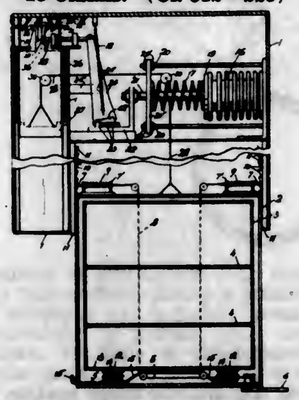
2,592,759
ADAPTER FOR USE WHEN FILLING THE TUBES OF VEHICLE TIRES WITH LIQUID
William Sullivan, Bishop Park, Toowoomba, Australia
Application August 18, 1948, Serial No. 44,944
In Australia September 1, 1947
4 Claims. (Cl. 226—20.8)

1. An improved adaptor, for use when filling the tube of a vehicle tire with water, comprising a plug cock body having four short pipes integral with it, two of said pipes being in line and respectively for attachment to the tube valve stem and for air outlet, the other two pipes being in line and at an angle of about 40° to the other pair and respectively for attachment to a gauge and to the water supply pipe; a hollow plug in said body provided with apertures which when the plug is in first position are out of register with all of said pipes and the adaptor is closed, at which stage a valve extractor assembly is connected to the said air outlet pipe, when the plug is turned to a second position the valve extractor stem is pushed through the apertures in the plug, the valve is removed and the said stem is returned into said air outlet tube, when said plug is turned again to the first position the valve extractor assembly is removed, when the plug



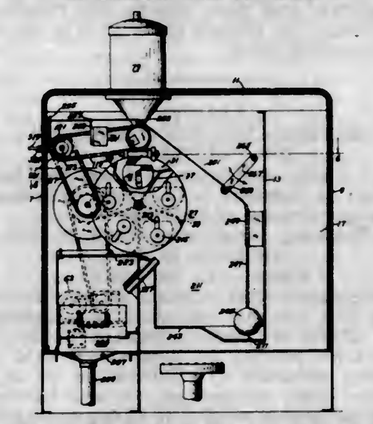
is returned to second position a predetermined volume of air escapes from said tube, when the plug is turned to a third position water is admitted to said tube and a bleeder tube assembly is attached to the air outlet pipe, and when the plug is turned to fourth position the end of the bleeder tube is passed through said plug to the highest level of the said tube while water is still being admitted thereto and air from said tube is leaving by means of a needle valve in the bleeder tube assembly.

2,592,760
SELF-BALANCING CABINET
Charles Sutera, Maspeth, N. Y.
Application February 18, 1947, Serial No. 729,226
13 Claims. (Cl. 312—223)



12. In a device for counterbalancing a vertically movable cabinet and weights placed therein said device comprising a counterweight carrier and a traveling support for said cabinet connected by a line and pulleys to said counterweight carrier and movable therewith, a plurality of weights releasably supported at the end of travel of said carrier to be carried by said counterweight carrier and means releasing any or all of said plurality of weights to become supported by and movable with said carrier to counterbalance any weight placed in said cabinet, a bellows between said cabinet and said support and a bellows coacting therewith for releasing said weights, and means between said last named bellows and said weight releasing means for causing selective operation of said weight releasing means, comprising a stop plate and a plurality of stop pins coacting with said weight releasing means, said weight releasing means including a plurality of release pins and levers movable by one of said plurality of stop pins, and spring means to cause said lever to travel a greater distance than the movement of said pin.

2,592,761
COFFEE URN
Lars Svendsgaard, Berkeley, Calif.
Application April 2, 1948, Serial No. 18,625
12 Claims. (Cl. 99—283)

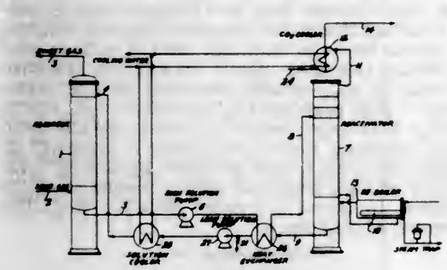


1. In a coffee-brewing device, the combination of: a wheel mounted to rotate in a vertical plane about a horizontal axis, said wheel having two end walls and a plurality of generally-radial partitions disposed therebetween, so as to provide a plurality of compartments open along the periphery thereof; and a brewing basket pivotally suspended between the end walls of each compartment, so that each said basket normally remains horizontal as said wheel rotates, each said basket having a perforated lower end and an open upper end, whereby ground coffee and water may be placed in said basket, and the brew will seep through the perforated lower end and into said compartment, and when said wheel is turned to a different position and the radial walls are tipped, the brew will drain out of said compartment while the basket holds the coffee grounds in the basket for later disposition.

2,592,762
SEPARATION OF CARBON DIOXIDE FROM GASES
James E. Taylor, Beonton, N. J., and John H. Haslam, Newport, Del., assignors to The Girdler Corporation, Louisville, Ky., a corporation of Delaware
Application January 24, 1946, Serial No. 643,123
6 Claims. (Cl. 23—150)

1. In a process for separating carbon dioxide from a gaseous mixture containing the same, in

which the mixture is contacted in an absorber with an aqueous solution of monoethanolamine and in which the effluent gas comprises a mixture of the stripped gas and a fog containing monoethanolamine, the method of separating the fog



from the stripped gas which comprises the steps of heating the effluent gas to a temperature at least 15° C. above that of the effluent gas leaving the absorber, and then cooling the effluent gas by scrubbing the effluent gas with a spray of an aqueous cooling liquid.

2,592,763

CHLORINATED UNCOMPACTED POLYETHYLENE

Robert S. Taylor, Arlington, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 20, 1949, Serial No. 88,693

1 Claim. (Cl. 260—94.9)

A chlorinated solid polymer of ethylene containing 25% to 35% chlorine and having an ASTM (D747) stiffness in flexure at 25° C. of 2,000 to 6,000 pounds per square inch, said polymer being obtained by chlorination of an uncompacted solid polymer of ethylene having an average molecular weight of 18,000 to 20,000.

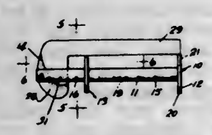
2,592,764

HAIR CURLER

Aram Teopilian, Brooklyn, N. Y.

Application November 17, 1949, Serial No. 127,895

3 Claims. (Cl. 132—40)



1. Hair curler clamping bobbin construction comprising: a first end plate; an axle element connected to said first end plate; a second end plate movable on said axle element with respect to said first end plate; said axle element including a bifurcated portion having first and second legs; a latch element including a cam portion which is of a size larger than the distance between said first and second legs when the same are in a relatively unstressed condition; said latch element being pivotally mounted between said legs, and in one position thereof serving to expand said legs with respect to each other.

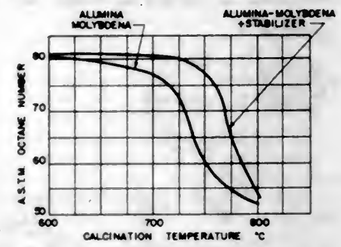
2,592,765

DEHYDROGENATION OF HYDROCARBONS

Charles L. Thomas, Winnetka, Ill., and Jacque C. Morrell, Chevy Chase, Md., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Original application May 26, 1943, Serial No. 488,500. Divided and this application May 21, 1948, Serial No. 28,536

10 Claims. (Cl. 260—673.5)



1. A process for dehydrogenating a dehydrogenatable hydrocarbon which comprises contacting said hydrocarbon under dehydrogenation conditions with a composite dehydrogenation catalyst comprising from 50 to 90% of aluminum oxide, from 5% to 30% of a clay selected from the group consisting of kaolin and montmorillonite, and from 4% to 20% of an oxide of a metal selected from the elements in the left-hand columns of groups V and VI of the periodic table.

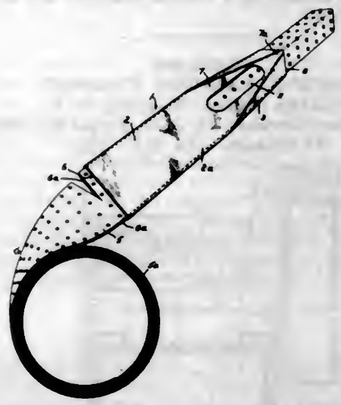
2,592,766

FOLDER FOR PERFORATED TAPE

Chester A. Tincher, Philomath, Oreg., assignor of nineteen and one-half per cent to Frank E. Johnson, seventy and one-half per cent to Carl J. Johnson, and ten per cent to Ben W. Morrow, all of Philomath, Oreg.

Application November 30, 1949, Serial No. 130,290

3 Claims. (Cl. 270—86)



1. A taping tool comprising a tubular body, one end defining a handle portion and the other a tape creasing, forming and applying portion, said tubular body having a continuous bore closely encompassing a strip of sealing tape thruout the entire length of said body, said handle portion being flat and the other portion merging on straight lines to an angular discharge end, said end in elevation defining a right angle triangle with the apex thereof lying on the centerline of said body, and a stiff web joining the margins of the creasing, forming and applying portion, and constituting the base of the angular discharge end, said web subtending an oblique angle with the handle portion, one wall of said tubular body defining a part of said creasing, forming and applying portion extending as a prolongation of the handle portion and in the same plane as the latter, and said wall being of triangular contour, its base coinciding with and being of the same width as the handle portion and the apex thereof lying in the same transverse plane as that occupied by the discharge end.

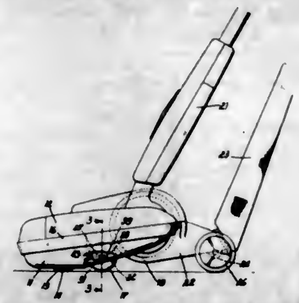
2,592,767

NOZZLE HEIGHT ADJUSTING MECHANISM FOR VACUUM CLEANERS

Edgar P. Turner, Fanwood, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application September 8, 1948, Serial No. 48,194

11 Claims. (Cl. 280—44)



1. In a vacuum cleaner wheel attaching means comprising a pair of spaced horizontally extending bosses formed on said vacuum cleaner, said bosses providing a set of upper surfaces and a set of lower surfaces, a wheel-supporting horizontal shaft having opposite ends adjacent said one set of said boss surfaces, and a pair of U-shaped spring clips providing a set of arms, one set of said arms engaging one set of said surfaces and the other set of said arms holding said shaft adjacent said other set of surfaces.

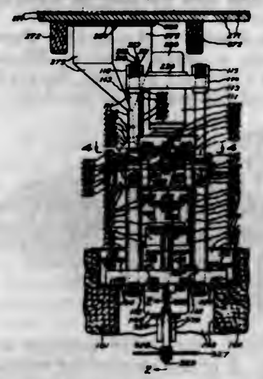
2,592,768

AUTOMATIC MOLDING PRESS

Edward Van der Pyl, Holden, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application May 29, 1948, Serial No. 30,174

14 Claims. (Cl. 18—16)



1. Molding apparatus comprising a first cylinder, a second cylinder opposed to said first cylinder, a first piston in said first cylinder, a second piston in said second cylinder, a first ram secured to said first piston extending through the end of said first cylinder, a second ram secured to said second piston extending through the end of said second cylinder, said ends of said cylinders facing each other, a first mold plate secured to said first ram, a second mold plate secured to said second ram, a mold band located between said cylinders of a size to receive said mold plates, a source of hydraulic fluid under high pressure, a source of hydraulic fluid under low pressure, a fluid pressure connection to the remote end of the first cylinder, a fluid pressure connection to the remote end of the second cylinder, a fluid pressure connection to the end of the first cylinder toward the second cylinder, a fluid pressure connection to the end of the second cylinder toward the first cylinder, a permanent fluid pressure connection from the source of high pressure to the fluid pressure connection at the end of the first cylinder towards the second cylinder, and further fluid pressure connection valves and operating mechanism therefor arranged automatically to operate to admit low pressure to the end of the second cylinder adjacent the first cylinder and exhaust fluid from the end of the second cylinder remote from the first cylinder, then to admit low pressure to the end of the first cylinder remote from the second cylinder to move the first ram towards the mold band, then to connect the end of the second cylinder adjacent the first cylinder to the end of the first cylinder remote from the second cylinder and to connect the end of the second cylinder remote from the first cylinder to low pressure, then automatically when the reaction force rises to connect the remote end of the second cylinder to high pressure, then to disconnect the connections between the two cylinders and to connect the remote end of the second cylinder to low pressure and the remote end of the first cylinder to exhaust.

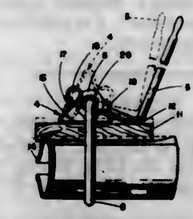
2,592,769

PORTABLE LEVER ACTUATED TIRE REMOVING TOOL

Leonard Vanleirsberghe, Maywood, Ill.

Application April 18, 1950, Serial No. 156,637

1 Claim. (Cl. 157—1.26)



A device of the character described comprising, a U shaped support having a slight offset portion on a leg thereof, a lever element provided with a sleeve on one end thereof and having an enlarged bore therein slidably and removably journaled on the said leg for rotation thereon as an axis, the said lever element provided with a pressure knee portion intermediate its ends, the plane of operation of the said lever element being disposed at right angles to the plane of the said U shaped support, a pressure block associated with said U shaped support and the said lever element adapted to exert pressure on a body introduced into the said U shaped support when force is applied to the free end of the said lever element, and stay means of triangular formation having

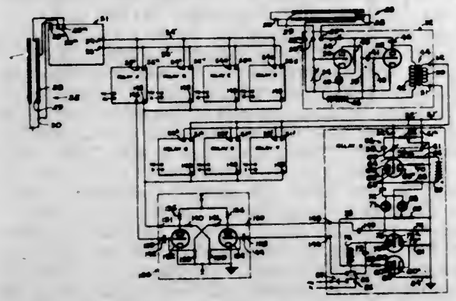
an enlarged bore at its apex slidably and removably journaled on the said leg for rotation thereon as an axis at a point adjacent the said lever element, the said stay means being capable of rotating into place after pressure is exerted by the said lever causing its base to rest on the said pressure block to relieve the said lever and to hold the said pressure block in depressed position.

2,592,770

VARIABLE-OSCILLATOR CONTROLLED RELAY SYSTEM

George A. Waldie, Worthington, Ohio, and Howard F. MacMillin, Wilmette, Ill., assignors to MacMillin Engineering Corporation, a corporation of Illinois

Application February 8, 1947, Serial No. 727,460
16 Claims. (Cl. 175—320)



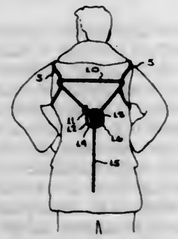
1. In a device responsive to the positioning of a movable machine member, the combination comprising a capacitance tuning element operatively associated with said machine member so as to be variable in unison therewith as the latter is advanced along its path of movement, a variable frequency oscillator including said tuning element in its circuit and having an output frequency which varies substantially proportionally with the displacement of the tuning element, and frequency responsive receiving means for the output of the oscillator including an RC network and an amplifier for amplifying the output of said network together with means energized by the amplifier and responsive to a predetermined output voltage thereof upon the arrival of the machine member at a predetermined point in its path of movement.

2,592,771

TOWING HARNESS

Edmund B. Wampler, Trafford, Pa.

Application May 18, 1951, Serial No. 226,998
2 Claims. (Cl. 224—5)



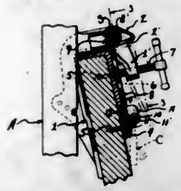
1. In a towing harness, a pair of shoulder cords having intermediate portions adapted to be engaged with the backs of the shoulders of the wearer, said shoulder cords having ends adapted to be brought forwardly above and below the arms of the wearer and inwardly over the chest of the wearer, said ends having shoulder cord rings thereon, a tying cord passed through all of said shoulder cord rings and forming a rectangle on the chest of the wearer, a hitch cord extending between and forwardly around said intermediate portions of the shoulder straps, said hitch cord having ends occupying dependent positions and having knots thereon, a main large ring on which one of said hitch cord knots is circumposed, a minor ring on which the other hitch cord knot is freely circumposed, a towing cord having a forward end passed through said minor ring and terminating in a tow cord knot freely circumposed on said main ring.

2,592,772

SAFETY ATTACHMENT FOR OUTBOARD MOTORS

Walter A. Wardius, Milwaukee, Wis.

Application March 27, 1948, Serial No. 17,457
1 Claim. (Cl. 70—2)



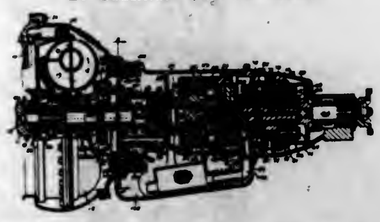
A device for locking outboard motors against accidental loss and unauthorized removal from boats of the type wherein the boat is provided with a permanently attached clip-plate, and the motor is rockably mounted upon a hinge bolt carried by a boat engaging bracket, said device comprising a strap secured to the hinge bolt for swinging movement therewith and depending therefrom over the clip-plate, an outwardly projecting rigid bed formed on the clip-plate below the hinge bolt and bracket, said strap having a longitudinally extending slot therein adjacent to its outer end receiving the rigid bed when the strap is swung down over the clip-plate, and an apertured button pivoted to said bed movable into and out of alignment with the bed and the slot of the strap to selectively confine or release the locking strap.

2,592,773

CONTROL MEANS FOR POWER TRANSMISSION

Erwin A. Weiss and Le Roy H. Frailing, Detroit, and Robert P. Clifton, Dearborn, Mich., assignors to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application February 13, 1946, Serial No. 647,332
17 Claims. (Cl. 74—645)



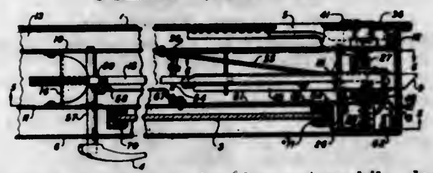
1. In control means for gearing in a vehicle transmission, a brake device for establishing one gear ratio drive through the gearing, a clutch device for establishing another gear ratio drive through the gearing, separate pressure fluid systems for actuating the devices, automatic means for controlling fluid flow in the system for actuating the clutch device, a normally open flow control valve in the system for actuating the brake device, means connecting the clutch device fluid control system with the valve in the brake actuating system to close the same when the clutch device actuating system is effective, normally closed vent valve means for the clutch actuating system, and driver operable means for opening the vent valve means at will.

2,592,774

DOOR LATCHING AND LOCKING UNIT

Harold H. Welsh and George A. Besaw, Los Angeles, Calif.

Application June 16, 1948, Serial No. 33,326
6 Claims. (Cl. 70—208)



1. In a locking device for automobile doors and the like, inner and outer wall members spaced apart for supporting the device, a sliding bolt with means supporting it between the wall members, a hollow shaft extending inwardly through one of the wall members, a handle fixed to an outer end of the shaft, a hollow tube supported by the other wall member and which telescopes the hollow shaft to provide a support for it and also provide a guide means therefore, an operating plate fixed to an inner end of the hollow shaft, a guide plate fixed to the bolt which has an edge along which rides a portion of the operating plate, a spring operable detent fixed near one of the wall members which is adapted to engage the operating plate, spring means attached to the operating plate and which constantly urges it toward the outer wall member, a recess in the handle with a button therein, a rod extending from the button and attached thereto and which passes through the tube and which has an end for making contact with the detent to release it from the operating plate when latched thereto and thus release the handle for outward movement.

2,592,775

PREPARATION OF CATALYST CONTAINING SILICA AND ALUMINA OR MAGNESIA OR BOTH

James P. West, Westmont, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 29, 1948, Serial No. 51,844
8 Claims. (Cl. 252—453)

1. A process for the production of a catalyst composite comprising silica and at least one metal oxide selected from the group consisting of alumina and magnesia which comprises reacting an alkyl ortho-silicate with at least one organic acid metal salt selected from the group consisting of a monobasic aluminum organic acid salt and a magnesium organic acid salt at temperature of from about 150° to about 300° C. and under a pressure sufficient to maintain at least a portion of the reaction mixture in liquid phase, and calcining the resultant reaction product.

2,592,776

CELLULOSE LOWER ALKANOATE PLASTIC COMPOSITION

Edward J. Wickson, South Orange, and Walter D. Paist, Berkley Heights, N. J., assignors to Celanese Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application December 16, 1949, Serial No. 133,468
3 Claims. (Cl. 106—177)

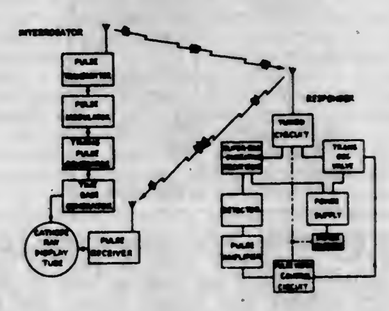
1. A thermoplastic composition comprising a lower fatty acid ester of cellulose having incorporated therein a mixture of from about 5 to 45% by weight of tripropyl phosphate based on the weight of the cellulose ester and from about 5 to 30% by weight of triphenyl phosphate based on the weight of the cellulose ester, the combined phosphate content of the thermoplastic composition, calculated as phosphoric acid, being at least about 10% by weight based on the weight of the cellulose ester.

2,592,777

PULSE-ECHO IDENTIFYING SYSTEM

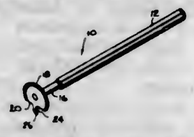
Frederic Calland Williams, Great Malvern, England, assignor to Minister of Supply in His Majesty's Government of the United Kingdom of Great Britain and Northern Ireland, London, England

Application August 21, 1946, Serial No. 692,085
Section 1, Public Law 690, August 8, 1946
Patent expires March 13, 1963
20 Claims. (Cl. 343—6)



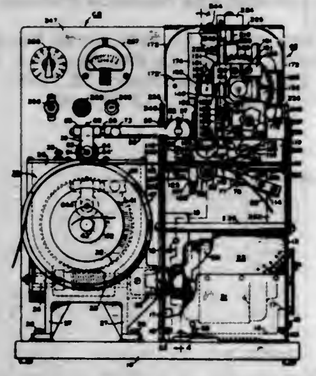
1. A wireless signalling system for establishing the identity of a responder in communication with an interrogator wherein said interrogator comprises a pulse-modulated radio transmitter for radiating a series of separated radio-frequency pulses and wherein said responder comprises a radio receiver, a second pulse-modulated radio transmitter, said transmitter being normally held in quiescent condition, circuit means interconnecting said receiver with said second transmitter for triggering the latter into operation to transmit separate counterpart pulse signals upon reception of pulse signals by said receiver, means for altering the individual time-duration of the counterpart signal pulses transmitted by said second pulse-modulated radio transmitter from one to another of at least two different and predetermined values and cyclically operated coding means controlling said time-duration altering means for causing a characteristic and repeated series of changes of time-duration of the response pulses to provide an identifying response signal from the responder.

2,592,778
SURGICAL INSTRUMENT
Traub Wilkes, New York, N. Y.
Application April 12, 1950, Serial No. 155,390
12 Claims. (Cl. 128—304)



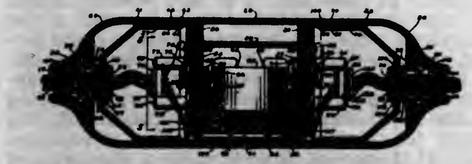
2. A hardened tissue remover, comprising a handle and a beveled cutting disc having an edge forming part of a plane integral with said handle and adapted to scrape the surface of said hardened tissue so as to remove the same.

2,592,779
TAPE CONTROLLED TELEGRAPH TRANSMITTER
Raleigh J. Wise, Dunellen, and Robert D. Parrott, West New York, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application October 26, 1945, Serial No. 624,786
17 Claims. (Cl. 178—17)



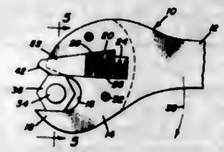
1. In combination with optical scanning mechanism for a marked tape, a pair of members between which the tape is held in spring pressure contact and guided across the scanning spot of said mechanism, said members being reversely curved to provide only a narrow transverse line of contact with the tape, one of members having an opening for the passage of the scanning beam.

2,592,780
SEISMIC METHOD AND APPARATUS
John P. Woods, Dallas, Tex., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 18, 1947, Serial No. 755,410
5 Claims. (Cl. 177—352)



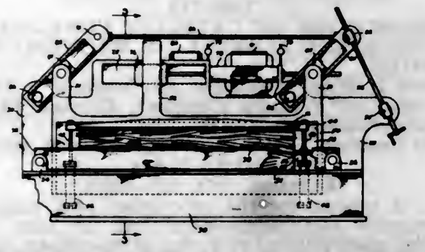
1. Underwater drag seismometer means comprising a watertight casing adaptable for drag movement in the direction of its longitudinal axis along a water bed, end-structures forming with said casing a watertight housing within the casing transversely of the longitudinal axis thereof, a seismometer, cradle means rotatably mounting the seismometer within the housing for free movement on an axis substantially parallel to the longitudinal axis of the casing, multi-terminal electrical socket means disposed inwardly of said end-structures at each end of said casing, a plurality of electrical conductors extending through said casing and connecting terminals of said electrical socket means at one end to corresponding terminals of the electrical socket means at the other end, and means connecting said seismometer to a selected pair of terminals of said electrical socket means.

2,592,781
RATCHET WRENCH
Sylvan Yavner, Norfolk, Va.
Application January 2, 1951, Serial No. 203,832
1 Claim. (Cl. 81—179)



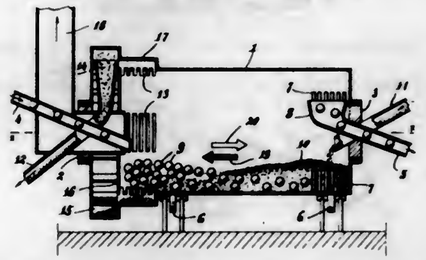
A ratchet wrench comprising a handle, a head on one end of said handle, a stationary jaw on the head, said head having a susbtantially longitudinally elongated recess therein, one of the walls of the recess being inclined toward the stationary jaw, a slidable jaw in the recess cooperable with the stationary jaw for gripping the work therebetween when in projected position, and a spring in the recess for projecting the slidable jaw, said slidable jaw including a tapered portion operable on the inclined wall of the recess for tightening said slidable jaw on the work as it is moved toward operative position by the spring.

2,592,782
HYDRAULIC SLICER
George E. Zweifel and Donald H. Bookhultz, Portland, Oreg., assignors to George E. Zweifel & Company, Portland, Oreg., a partnership
Application January 19, 1947, Serial No. 721,396
8 Claims. (Cl. 144—162)



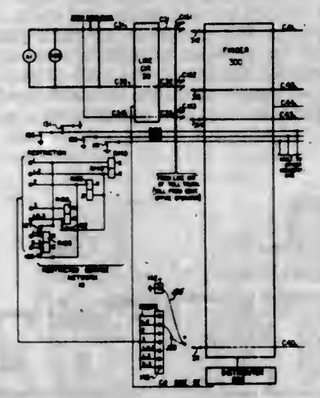
2. In a veneer slicer comprising a frame, a sash slidably mounted on said frame, a knife attached to said sash, and means for actuating said sash; means for controlling the angular motion of said sash and comprising a first guide means on said frame, a first slide means adapted to slide in said first guide means, and a second guide means attached to said first slide means, said second guide means being adapted to receive said sash as a slide.

2,592,783
ROTARY HEAT EXCHANGER
Olof Erik August Aspegren, Stockholm, Sweden
Application April 17, 1946, Serial No. 662,890
1 Claim. (Cl. 257—55)



A device for the treatment of piece-shaped material by means of balls which are brought into direct contact with the material during its operation; said device comprising a cylindrical drum rotating about a substantially horizontal axis, an annular end wall defining a central opening at each of the opposite ends of said drum, a fixed support fitting into the central opening of each of said end walls, a stationary inlet conduit for the balls extending into said drum through one of said fixed supports, an upwardly open stationary outlet conduit for the balls extending out of said drum through the other of said stationary supports, at least one grate-like catching member secured to and projecting inwardly from the inner surface of the side wall of said drum adjacent the end wall of the latter into which said other stationary support fits, the openings of said catching member having such size in relation to the size of the balls and the size of the pieces of material that, when said catching member, during rotation of said drum, is moved through the balls and material, the balls are prevented from passing through said openings while the material passes freely through said openings, said catching member being inclined away from the radial in a direction opposite to the rotation of said drum so that during the rotation of the latter the balls are first lifted and then discharged from the catching member into said upwardly open outlet conduit when said catching member is disposed substantially above the latter, a stationary inlet conduit for the material leading into said drum through said other stationary support, a transverse partition wall arranged in said drum adjacent to and spaced from the end wall into which said one stationary support fits, the portion of the side wall between said partition and the adjacent end wall having a diameter larger than the remainder thereof, an upwardly open outlet conduit for the material extending out of the section of the drum between said partition and said adjacent end wall and through said one stationary support, an outer shell of a diameter less than that of said large diameter portion of the side wall extending around and spaced from said side wall of the drum and opening endwise through said partition into said section of the drum between said partition and said adjacent end wall, openings in said side wall communicating radially with the space enclosed by said outer shell for passing material into said space, and pocket forming members between said partition and said adjacent end wall and secured to the side wall for raising material passed through said openings into said space and hence into said drum section and discharging such material into said outlet conduit for the material.

2,592,784
RESTRICTED SERVICE TELEPHONE SYSTEM
Pier Bakker, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application January 22, 1947, Serial No. 723,525
8 Claims. (Cl. 179—18)

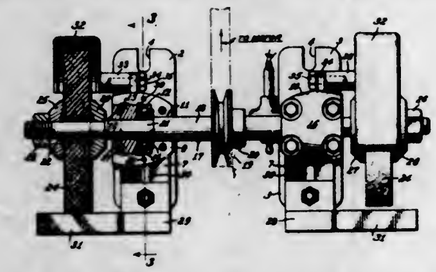


1. In a telephone system, subscriber lines, a finder switch having access to said lines and operable to find and connect with a calling line, an auxiliary terminal individual to each calling line engaged by said finder, a restriction service network including a plurality of relays, a terminal frame for interconnecting the auxiliary terminal individual to any line to any one of said relays or to different combinations of said relays thereby to impose a restriction or combination of restrictions upon the service rendered the associated subscriber line, a plurality of marking conductors, a like plurality of groups of trunks, a switch controllable from said calling line to select a desired group of trunks and an idle trunk in the selected group including means for causing said switch to pass over busy trunks in the selected group, a control circuit for artificially indicating to said switch that all of the trunks in a selected group are busy whether said trunks are actually busy or not, and means including normal post springs operated responsive to the selection of any group of trunks for controlling said network to mark said conductors in accordance with the restriction or combination of restrictions imposed on said calling line and for connecting the one of said marking conductors individual to said selected trunk group to said control circuit, said control circuit being rendered effective only when the connected marking conductor is marked by said network relays.

2,592,785
BENCH GRINDER
John E. Bernard, Jr., Roanoke, Va., assignor to Walker Machine & Foundry Corporation, Roanoke, Va., a corporation of Virginia
Application July 18, 1950, Serial No. 174,522
3 Claims. (Cl. 308—178)

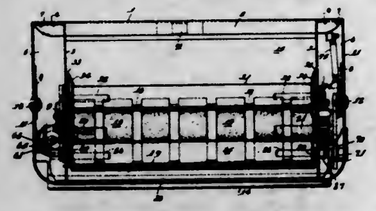
1. In a device of the character described, a frame, journal boxes supported in fixed spaced axial alignment in said frame, the inner ends of said journal boxes having axially aligned bores therethrough and each having a cylindrical chamber coaxial with said bores, and of greater diameter than said bores, extending outwardly therefrom, opening in the outer ends of said journal boxes, said bore and chamber of each journal box defining an inner end wall in a

diametrical plane, a driven shaft extending through said journal boxes and therebeyond having an intermediate portion of a diameter to fit said bores and end portions of reduced diameter adapted to carry grinding wheels, defining at the point of diametrical reduction annular shoulders in a diametrical plane, the length of said intermediate portion being such that said shoulders lie in the planes of said inner end walls, a bearing fitting within the chamber of each journal box and about the reduced portion of said shaft, positioned against the inner end wall of said chamber and the adjacent shoulder on said shaft, a dust seal for each journal box comprising a wide cylindrical metal annulus fitting within said chamber



and about the reduced portion of said shaft, positioned against said bearing, the outer face of said annulus being flush with the outer end of said journal box, said journal boxes being divided into matching halves in an axial plane of said shaft, one-half of each being a pillow block in fixed relation to said frame, the other half being a removable cap, said cap and pillow block having parallel aligned holes on opposite sides of said shaft to receive securing bolts, the holes in said pillow blocks being threaded; said dust seal having parallel bores on opposite sides, registerable with said bolt holes, and securing bolts in said bolt holes and bores screwed into said pillow block for immobilizing said dust seal against rotation and endwise movement.

2,592,786
DISPENSING MECHANISM
Rudolph G. Birr, Lombard, Ill., assignor, by mesne assignments, to American Linen Supply Co., Carson City, Nev., a corporation of Nevada
Application January 17, 1947, Serial No. 722,590
12 Claims. (Cl. 242—55.5)



3. A device for dispensing sheet material from a supply-roll comprising, a pair of plates, feed rolls journalled in and between the plates, a roller having trunnions journalled in the plates and adapted to support the supply-roll while the material is being dispensed from it through the feed rolls, and disks rotatable on said trunnions and adapted to automatically center the supply roll and to prevent its axial motion on said roller.

2,592,787
SPRING JACK FOR KNITTING MACHINE NEEDLES
Herman A. Blickle, Highland Park, N. J.
Application June 18, 1951, Serial No. 232,192
2 Claims. (Cl. 66—124)



1. A jack for use in knitting machines comprising a flat body portion having an elongated recess of uniform depth in one side thereof, the bottom wall of the recess having a plurality of spaced portions displaced into the recess from the other side of the jack and constituting rivets upstanding from the bottom of the recess and opposed by cavities in the said other side resulting from the displacement of said wall portions, and a flat spring in the recess having holes registering with and entered by said rivets, the rivets being headed over so as to secure the spring against the recess bottom.

2,592,788
WIRE TERMINAL AND INSULATING SLEEVE
Edward H. Branson, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application September 28, 1948, Serial No. 51,550
1 Claim. (Cl. 173—269)



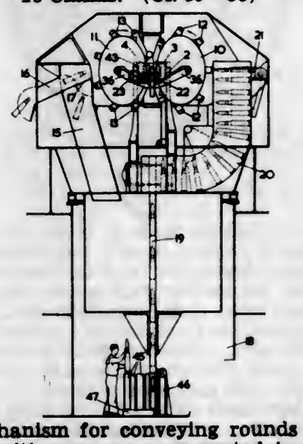
A device for marking and protecting the ends of individual insulated wires adjacent terminal connectors during assembly of electrical wiring comprising, a cylindrical sleeve of relatively rigid resilient insulating material having a wire designation thereon, said cylindrical sleeve having a uniform inside diameter larger than the outside diameter of the insulated wire and freely movable along the insulated wire as may be necessary during the attaching of the terminal connectors to the individual wire ends, and a conical locking bushing of resilient insulating material having a cylindrical smooth inside diameter substantially the same as the outside diameter of the insulated wire and freely movable along said insulated wire, said locking bushing having a single longitudinal slot on one side and being inserted in the end of said sleeve remote from the wire terminal connector while said sleeve is in position to protect the terminating insulation of the wire and cover any exposed metal surface adjacent the terminal connector, said locking bushing when forced into said sleeve being deformed to press tightly against the inside of said sleeve and the insulation of the wire with a frictional engagement maintained by the resiliency of the sleeve to hold both said sleeve and said locking bushing firmly in place, whereby said sleeve may be clamped in a selected position by said locking bushing to serve the triple function of identifying the terminal end of the wire, protecting the terminating end of its insulation, and providing insulation for any exposed metal surface adjacent the terminal connector for the wire.

2,592,789
SCREEN STENCIL
Joseph B. Brennan, Bratenahl, Ohio, assignor to E. D. McCurdy, trustee
Application February 15, 1946, Serial No. 647,888
7 Claims. (Cl. 101—128.2)



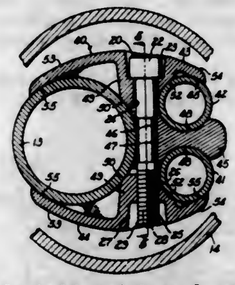
1. A thin flexible screen stencil blank adapted to have a design etched therethrough comprising a composite sheet of durable material of uniform thickness comprising a layer of spaced, unwoven, substantially parallel filaments of a diameter on the order of .002 inch with the spaces between the filaments blocked by a substantially imperforate layer of etchable material.

2,592,790
GUN LOADING MECHANISM
Christopher Francis Brereton, London, England, assignor to Vickers-Armstrongs Limited, London, England, a British company
Application September 3, 1947, Serial No. 771,909
In Great Britain August 19, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires August 19, 1966
16 Claims. (Cl. 89—33)



16. Mechanism for conveying rounds into the loading position on a gun mounted in a cradle with trunnions about the axis of which the gun is adjustable for changing the angle of elevation thereof, and in which the rounds are fed into the breech in co-axial alignment with the gun; said mechanism comprising a rotary carrier, means rotatably supporting said carrier for movement with said gun so that the axis of rotation of the carrier always is disposed at an angle of 45° relative to the axes of said gun and said trunnions and intersects said axes at the point of intersection of the latter, at least one tubular receiver mounted on said carrier so that the longitudinal axis of said receiver lies in a radial plane extending through said axis of rotation of the carrier and is inclined at 45° relative to said axis of rotation of the carrier to pass through said point of intersection so that said tubular receiver is movable with said carrier between a round receiving position aligned axially with the axis of the trunnions and the loading position aligned axially with the gun, and means to guide rounds into said receiver along the axis of said trunnions.

2,592,791
TUBING CLAMP HAVING OPPOSITE IDENTICAL JAWS
Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio
Application February 27, 1948, Serial No. 11,590
1 Claim. (Cl. 24—81)



A clamp adapted to retain a plurality of tubings in parallelism with each other, including: a pair of jaw members, each of said jaw members having projecting from the central portion thereof laterally disposed, arcuate gripping portions; a central member located between said jaw members, said central member having a basal portion and a shank portion, said basal portion having a hole therein and being provided with an arcuate tubing seat and said shank portion being provided with oppositely disposed arcuate tubing seats; and fastening means securing said jaw members to each other, said fastening means passing through said hole in said central member to retain it between said jaw members.

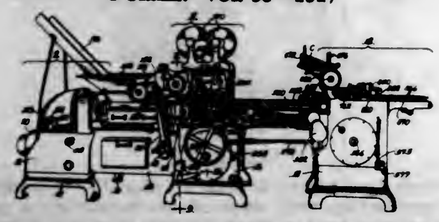
2,592,792
BRASSIÈRE
Frank A. Cohen, Brooklyn, N. Y.
Application January 31, 1948, Serial No. 5,557
7 Claims. (Cl. 2—42)



1. A brassiere comprising a torso encircling band including a pair of bust cups, shoulder straps connected to the top edges of the bust cups and to the rear of the brassiere, a pair of elongated strips associated with each bust cup, each pair of strips being located at the rear of its associated bust cup, the bottom ends of said strips being spaced from one another and secured to the brassiere along the bottom edge of the bust cup, said strips being disposed on opposite sides of the centers of the bottom edges of the bust cups and being longitudinally resilient, said

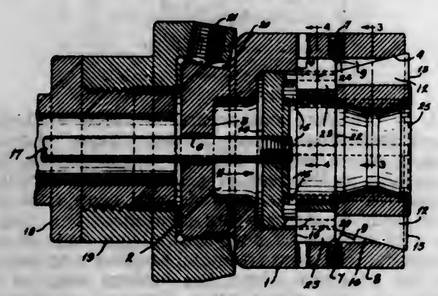
strips converging upwardly toward one another, the longitudinal edges of said resilient strips tapering from the bottoms to the tops thereof, a tape having its opposite ends attached to the top ends of said resilient strips, said tape having a fold intermediate its ends and being fastened at the fold to the shoulder strap near the point of connection of the shoulder strap to the bust cup, the distance along said resilient strips and tape when the strips are unstressed being less than the overlying distance along the bust cup and shoulder strap.

2,592,793
WRAPPING MACHINE FOR BUTTER AND THE LIKE
Harold R. Coon, Sr., and Earl J. Rapp, Toledo, Ohio, assignors to Lynch Package Machinery Corporation, Toledo, Ohio, a corporation of Ohio
Application May 14, 1945, Serial No. 593,708
1 Claim. (Cl. 53—131)



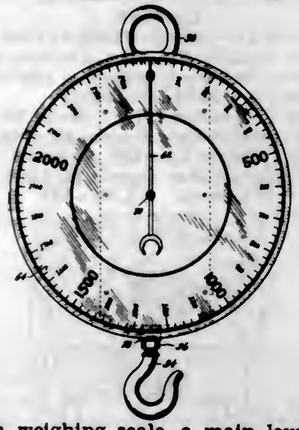
In a machine of the character disclosed, spaced stationary bars, a ram for moving a print of butter or the like against a sheet of parchment and then moving the print and the parchment between said bars for folding the parchment across the top and bottom of the print, said bars extending rearwardly in the planes of the folded sheet as far as the trailing edges of the folded sheet, a plurality of paddles, a stop plate, means for lowering the print for folding one of the trailing edges of the parchment by its engagement with an edge of the lower of said bars, means for elevating the print for folding another trailing edge of the parchment by engagement with said stop plate, end flap folders for folding the end of the parchment, and means for moving said paddles for thereby advancing the print of butter in the machine.

2,592,794
COLLET CHUCK
Earl L. Devis and Charles E. Unkefer, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application October 16, 1948, Serial No. 54,874
2 Claims. (Cl. 279—51)



1. In a chuck, a collet sleeve closed at its inner end forming a socket and open at its opposite end in a mouth having an outwardly flared surface, said sleeve having axially directed guide grooves in its inner surface extending through said flared mouth and terminating adjacent said sleeve socket, a collet disposed in said sleeve, said collet having a base movably located in said sleeve socket and a plurality of integral, axially extending and circumferentially spaced fingers, said fingers having outer tapered surfaces engageable with and slidable relative to said flared surface of said sleeve mouth and inner spring portions adjacent said collet base, a collet draw rod extending through said sleeve at its closed inner end for connection into said collet base, and a work back-up ring having a plurality of radial lugs movable inwardly through said sleeve mouth between said spaced collet fingers in said collet sleeve guide grooves for location against the inner ends of said guide grooves.

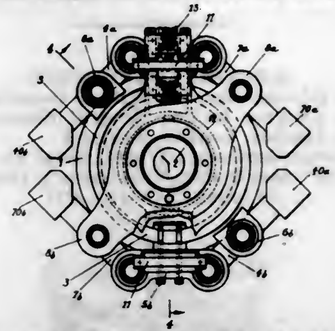
2,592,795
WEIGHING SCALE
William C. Dillon, West Chicago, Ill., assignor to W. C. Dillon & Company, Inc., Chicago, Ill., a corporation of Illinois
Application June 11, 1949, Serial No. 98,489
18 Claims. (Cl. 265—68)



1. In a weighing scale, a main lever support comprising a vertical arm, a horizontal arm and an extension depending from said horizontal arm, means for supporting said main lever support, said means being connected with said horizontal arm intermediate its ends, said extension carrying a knife edge, a fulcrum block pivoted thereon, a second knife edge pivoted on said fulcrum block in line with said means of support, a yoke carrying said last knife edge, a lifting hook depending from said yoke, a deflection bar secured to said fulcrum block and depending therefrom alongside said hook, a link pivoted at its ends to said main lever support adjacent the lower end of said vertical arm and to the lower end of said deflection bar, and means for sensing the deflection of said deflection bar when a weight is imposed on said lifting hook.

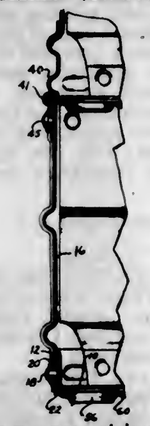
2,592,796
ELASTIC COUPLING AND TORQUE MEASURING DEVICE
Robert Doussain, Villeurbanne, France
Application March 8, 1946, Serial No. 653,198
In Germany March 12, 1942
6 Claims. (Cl. 73—136)

4. An elastic coupling device for transmitting torque between two co-axial shafts, comprising an elastic metal ring concentric with said two shafts and having two diametrically opposed connection members, a first pair of connecting rods pivoted at one end to one of said connection members about axes parallel to the axis of said shafts and each at a point intermediate its length to one of said shafts about an axis parallel to the axis of said shafts, a second pair of connecting rods pivoted at one end to the other of said connection members about axes parallel to the axis of said shafts and each at a point intermediate its length to the other of said shafts



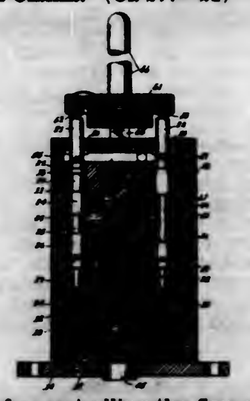
about an axis parallel to the axis of said shafts, whereby upon transmission of torque between said two shafts a diametral force is exerted upon said elastic metal ring causing diametral movement thereof, an annular member carried by one of said shafts, a core carried by each of said connection members, coils mounted upon said annular member adjacent each of said cores and cooperating therewith, and electrical means for measuring the displacement of said cores with respect to said coils caused by the diametral movement of said ring.

2,592,797
DELIVERY CASE
Ernest R. Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Inc., Des Moines, Iowa, a corporation of Iowa
Application September 20, 1947, Serial No. 775,307
1 Claim. (Cl. 220—4)



A delivery case comprising a bottom panel having upstanding flanges at its sides and ends, side and end panels riveted to said flanges, and corner posts of angle shape riveted to the ends of said side and end panels the flanges of said corner posts having inturned lower ends to form bottom corners for said posts, the lower corners of said side and end panels being cut back to facilitate cleaning said bottom corners of said corner posts, said bottom corners having drain openings therein.

2,592,798
HYDRAULIC CONTROL VALVE
Nicholas Fenger, Bryan, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application February 11, 1948, Serial No. 7,668
8 Claims. (Cl. 277—21)

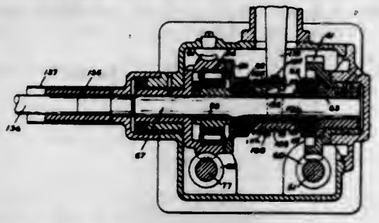


8. A valve for controlling the flow of hydraulic fluid comprising a valve body having a first and second bore therein, a first and a second reciprocable valve plunger respectively disposed in said bores, said plungers each having a plurality of enlarged and reduced portions, said valve body having formed therein a single supply passageway, a plurality of return passageways and a by-pass passageway, a supply port, a return port, and two cylinder ports, said supply passageway joining said bores to each other, said supply port introducing the fluid to said valve body and communicating with said supply passageway, said two cylinder ports, one of which serves as an inlet and the other serves as an outlet and vice versa, communicating with the first bore, said by-pass passageway communicating the supply port to the return port via the second bore when the valve plungers are in the neutral position, means for reciprocating said plungers so that the enlarged and reduced portions of said first plunger cooperate with said supply passageway and return passageways and said cylinder ports to form two continuous flow paths, one path from said supply port to one of said cylinder ports and the other path from the second cylinder port to the return port, means for reversing the flow paths from the supply and return ports to the opposite cylinder ports, and the second valve plunger blocking said by-pass passageway when the first plunger is positioned to form said flow paths.

2,592,799
VARIABLE-SPEED TRANSMISSION
Worthy J. F. Forward, Rochester, and Roland R. Roberts, Irondequoit, N. Y., assignors to Consolidated Machine Tool Corporation, Rochester, N. Y., a corporation of Delaware
Application February 7, 1947, Serial No. 726,990
4 Claims. (Cl. 74—368)

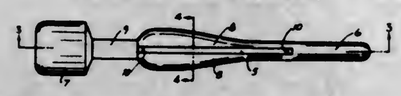
1. The combination with a movable support, of means for moving the same comprising a rotary

shaft, means operatively connecting said shaft to said support, a set of reduction gears for driving said shaft at high speed, a set of reduction gears for driving said shaft at low speed, means for driving both sets of reduction gears simultaneously and continuously, a clutch for connecting the first set of reduction gears to said shaft so as to drive said shaft through said first set of reduction gears, a second clutch for connecting



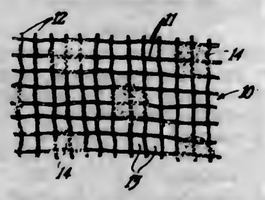
the second set of reduction gears to said shaft so as to drive said shaft through the second set of reduction gears, a shiftable member for selectively engaging said clutches, and an overrunning clutch operatively disposed between the final member of said second set of reduction gears and said shaft and operable, when both the first and second clutches are disengaged, to connect said final member to said shaft to drive said shaft from said second set of reduction gears.

2,592,800
DILATOR FOR CLOGGED TEATS
Victor Gariepy, Waterloo, Quebec, Canada
Application July 5, 1951, Serial No. 235,193
In Canada May 23, 1951
1 Claim. (Cl. 128—261)



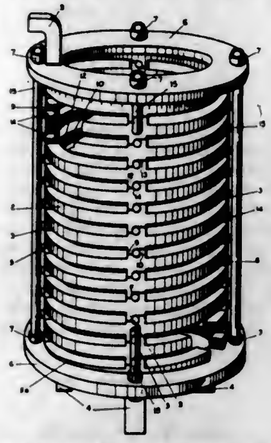
An instrument of the character described consisting of a pointed section enabling its introduction into animal teats, an enlarged section having a slot adapted to contain a medicated matter, said slot extending the full length of the enlarged section and terminated at its inner and outer end by a wedge point for the purpose of anchoring said medicated matter until the intrument is introduced into a teat, a spindle shaft portion, and a finger piece for the manipulation of the instrument, said shaft portion extending between said enlarged section and said finger piece, the whole forming an integral instrument.

2,592,801
ADHESIVE BANDAGE MATERIAL
Charles A. Hanington, Freeport, N. Y.
Application October 20, 1949, Serial No. 122,502
1 Claim. (Cl. 128—156)



An adhesive bandage comprising warp and woof threads arranged in open weave to present interstices providing a porous absorbent material, an adhesive substance in the form of dots completely embedding the warp and woof threads applied at spaced points throughout the area of both sides of the material and arranged to occupy substantially one quarter of the area of the material and presenting at opposite faces of said material areas of adhesion whereby when the material is wrapped as a bandage the layers thereof will be held in cohesive relation and substantially three quarters of the area of the material will serve as an absorbent ventilating medium.

2,592,802
ELECTRICAL INDUCTOR
Arthur Edward Harrold, Wyken, Coventry, England, assignor to The General Electric Company Limited, London, England
Application September 3, 1949, Serial No. 113,970
In Great Britain September 7, 1948
9 Claims. (Cl. 175—21)



3. An electrical inductor comprising a coil having a plurality of spacing members formed integrally with the coil so as to lie in pairs between adjacent turns, one spacing member of a pair projecting from one turn and the other from an adjacent turn, the two spacing members of each pair being spaced apart and in register with each of their opposing ends recessed so as together to define an aperture, insulating members each fitted into one of said apertures, and tensioning means axially compressing the turns and forcing the spacing members against the insulating members which also maintain the spacing members in register against tangential forces tending to enlarge the turns.

2,592,803
RELEASE AND ADJUSTING MEANS FOR VISE-TYPE WRENCHES
Jacob G. Heim, San Gabriel, Calif., assignor to The Calpat Corporation, Los Angeles, Calif., a corporation of California
Application May 10, 1948, Serial No. 26,020
6 Claims. (Cl. 81—84)

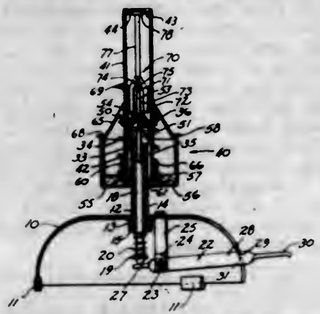
1. In a wrench having a relatively stationary handle with a non-movable jaw mounted upon one end thereof; a movable jaw secured to a jaw mounting plate which is pivotally mounted upon a first pivot pin intermediate the ends of said stationary handle and adapted to carry said movable jaw into operative relationship with said non-movable jaw; adjusting means mounted in

the stationary handle and adapted to adjust said movable jaw in relationship to said non-movable jaw; a second pivot pin passing through said jaw mounting plate and spaced from said first pivot pin; a locking handle pivoted at one end upon said jaw mounting plate through the medium of said second pivot pin; a third pivot pin passing through said locking handle intermediate the ends thereof; and a toggle link pivotally secured at one end to said locking handle through the medium of said third pivot pin and at its other end to said adjusting means, said toggle



link having a lug formed thereupon adapted to limit the inward movement of said locking handle toward said stationary handle, the combination with the aforesaid elements of: adjusting means mounted upon said locking handle adapted to cooperate with said lug upon said toggle link to control the amount of adjustment of said movable jaw; and release means interposed between the adjusting means in said stationary handle and the adjacent end of said toggle link adapted to release said movable jaw from an object after said movable jaw has been clamped upon said object.

2,592,804
WHEEL BALANCING MACHINE
James W. F. Holl, Los Angeles, Calif.
Application May 26, 1947, Serial No. 750,575
5 Claims. (Cl. 73—66)



1. A machine for balancing wheels, including: a stationary, vertical, tubular post having an annular seat; a spindle slidable in said post and having a balance point at its upper end; a vertical sleeve having an insert provided with a socket adapted to receive said balance point to pivotally mount said sleeve on said point, said insert being adapted to rest upon said annular seat when said balance point is withdrawn from said socket; a support member axially aligned with said sleeve adjacent the lower end thereof and adapted to support a wheel to be balanced in substantially horizontal position, said sleeve and said support member having interengaging screw threads so as to permit relative axial movement therebetween to adjust the position of the center of gravity of the wheel vertically with respect to said balance point while said sleeve, said support member and the wheel are supported solely by said balance point; conical centering means movable on said sleeve for centering the wheel concentrically of said balance point; spring means operative to move said centering means to wheel centering position; and operating means for sliding said spindle in said post, movement of said spindle in an upward direction causing said balance point to engage in said socket to raise said sleeve, support member, centering means and wheel to permit pivotal movement thereof on said point, and movement of said spindle in a downward direction retracting said balance point to cause lowering of said sleeve, support member, centering means and wheel with said insert coming to rest upon said annular seat to limit such lowering.

2,592,805
MEANS FOR PROTECTING WINDOWS AGAINST SUPERFICIAL DAMAGE
Harry H. Hutchinson, Higher Crumpsall, Manchester, England
Application September 27, 1949, Serial No. 118,018
In Great Britain October 1, 1948
5 Claims. (Cl. 160—31)



1. The combination with a window, of means for protecting the window from superficial damage caused by impact blows from flying particles, such means including inner and outer superimposed frames having aligned openings therein, and means associated with the outer frame for supporting the window, a web of flexible transparent sheet material of at least twice the length of the window overlying the inner surface of the window, and a spindle carried by one of the frames for supporting the web in rolled condition and bolts which connect the frames and which can be tightened so as to clamp the transparent sheet therebetween in an adjusted, fixed position.

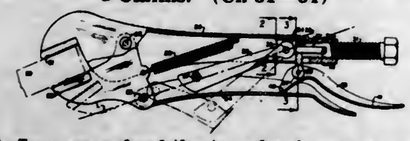
2,592,806
COLLAPSIBLE TUBE CLOSURE
Raymond L. Jeffery, Los Angeles, Calif.
Application March 1, 1947, Serial No. 731,845
9 Claims. (Cl. 222—81)



1. In combination, a container having a deformable neck initially closed by a transverse puncturable web, a cap adapted to be telescopically applied to the neck, said cap having an out-

let therein, puncturing means on the under side of the cap between the outlet and side walls thereof arranged to puncture the web and deform a portion of the neck outwardly, and there being an internal recess and shoulder on a side wall of the cap adjacent the puncturing means to accommodate the outwardly deformed portion whereby the cap will be locked on the neck thereby and permitted a limited axial movement relatively thereto.

2,592,807
LOCKING WRENCH AND PLIER
Harold T. Jones, Vallejo, Calif.
Application January 23, 1950, Serial No. 140,053
8 Claims. (Cl. 81—84)



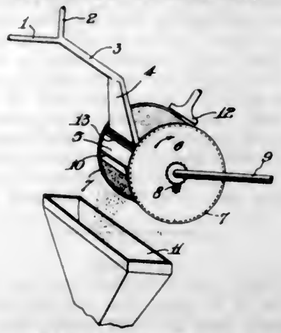
8. In a wrench of the type having an elongated handle provided with a stationary jaw at the forward end thereof, a movable jaw mounted on said handle arranged to cooperate with the stationary jaw to grip an article, a toggle for operating the movable jaw comprising an operating lever pivotally engaged at the forward end thereof to the movable jaw and a toggle link pivotally engaged at its ends to the handle and said operating lever intermediate the ends thereof, the operating lever extending longitudinally adjacent the handle in spaced relation thereto and arranged to be squeezed by a hand engaging the wrench to lock the toggle, the improvement which comprises; means for adjusting the position of the pivotal connection of the toggle link longitudinally along the handle comprising first and second parts, the first part being a longitudinally movable screw carried by the rear end of said handle, and the second part being a traveling abutment carried by the handle pivotally engaging the toggle link, one of said parts having a round stem extending axially and rotatably within a plain bore in the other part.

2,592,808
VALVE STRUCTURE
Robert S. Knapp, St. Louis, Mo., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application April 22, 1946, Serial No. 664,083
2 Claims. (Cl. 251—78)



1. In a valve structure, a valve casing having a reduced inner terminal end and an inturned outer terminal end, a fluid delivery tube received in said first end, a capillary tube slidable in said first tube, a floating plug for guiding the outer end of said capillary tube in said valve casing, said capillary tube having said outer end bent below said second end of said valve casing to project sidewise through a slot in said valve casing, a push button above said plug and said bent end of said tube, said push button being confined by said inturned outer terminal end, packing within said valve casing adjacent the outer end of said fluid delivery tube, a packing follower against said packing, a spring interposed between said floating plug and said follower to bias said capillary tube to an outer position and said packing follower against said packing, said capillary tube having an opening within said valve casing beyond said packing, said capillary tube being adapted to be slid inwardly with respect to said fluid delivery tube with said opening passing through said packing to a position within said fluid delivery tube, said spring returning said floating plug, said push button and said capillary tube to their normal position upon release of said push button.

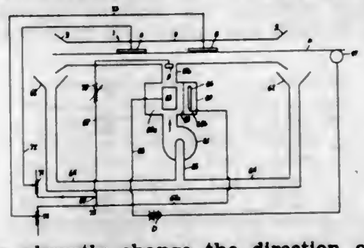
2,592,809
PREPARATION OF NITROGENOUS FERTILIZER COMPOSITIONS
Robert D. Kralovec and Robert L. Huffman, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 27, 1949, Serial No. 73,052
19 Claims. (Cl. 260—69)



1. A method for preparing a solid urea-formaldehyde fertilizer composition which comprises continuously introducing a liquid aqueous composition containing from 1.3 to 1.6 molecular equivalents of urea per molecular equivalent of formaldehyde onto a moving surface in an amount sufficient to form a thin layer on said surface of from 1/32 inch to 1/4 inch in thickness, subjecting the urea-formaldehyde composition to reaction thereon at a temperature of from 60° to 120° C. and at a pH of from 2 to 6 until solidification of the composition occurs, and thereafter continuously removing the solidified product from said surface.

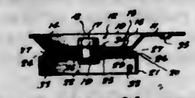
2,592,810
METHOD OF ELECTROLYTICALLY PROCESSING METALLIC ARTICLES
Joseph B. Kushner, Brooklyn, N. Y.
Application March 20, 1945, Serial No. 583,715
7 Claims. (Cl. 204—25)

1. A method of electroplating an object in a non-conductive tube which is open at each end thereof and which is closed intermediate said ends save at a lateral inlet of said tube which is located intermediate said open ends, which consists in moving said object unidirectionally into said tube through one of said ends and through said tube and out of said tube through the other of said ends, connecting said object during said movement to the negative terminal of a source of unidirectional current, forcing liquid electrolyte laterally into said tube at said lateral inlet to strike said object laterally at said inlet, said liquid electrolyte being thus forced laterally into said tube at said inlet at sufficient lateral velocity to strike the part of the closed wall of said tube which is alined laterally with said inlet



and to abruptly change the direction of said laterally forced liquid electrolyte and to produce a zone of turbulence at said inlet and said part of said closed wall, said lateral velocity being sufficient to fill said tube and to produce respective streams of electrolyte which flow in respective opposed directions in turbulent flow away from said lateral inlet towards and out of said open ends, and passing unidirectional plating current from the positive terminal of said source through anode means and said electrolyte, said anode means being at least partially located in said zone of turbulence.

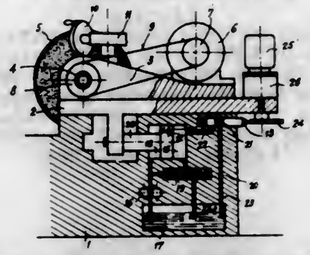
2,592,811
BALL-BEARING ASSEMBLY
Harry Lebensfeld, New York, N. Y., assignor to United Industrial Syndicate, Inc., New York County, N. Y., a corporation of New York
Application January 3, 1950, Serial No. 136,623
11 Claims. (Cl. 308—235)



1. A ball-bearing assembly comprising a base member, a movable member mounted for rotation relative to said base member, said members having opposed surfaces forming a raceway therebetween, anti-friction means disposed between said members, said means including an annular ball carrier and balls rotatably mounted at spaced intervals along said ball carrier, said balls being operable in said raceway, and detent means, formed on one of said members, disposed along a margin of said anti-friction means to prevent lateral displacement thereof.

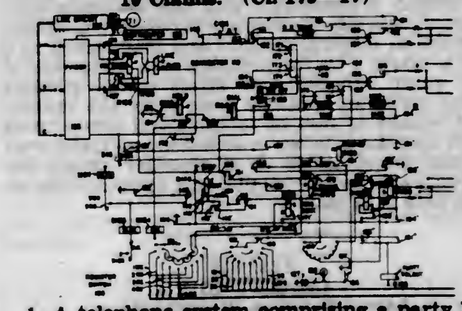
2,592,812
DEVICE FOR IMPARTING PREDETERMINED CYCLIC DISPLACEMENTS TO A MACHINE-TOOL MEMBER AND THE LIKE
Armand Marcel Le Lan, Paris, France, assignor to the Compagnie Generale de Construction de Locomotives (Batignolles-Chatillon), Paris, France, a corporation of France
Application April 10, 1951, Serial No. 220,228
In France March 17, 1951
7 Claims. (Cl. 51—165)

1. In a machine-tool having a frame member and a movable member to which a predetermined cycle of machining displacements is to be imparted relative to the frame member, a hydraulic cylinder in said frame, a piston connected with the movable member and reciprocable in the cylinder and defining opposite chambers therein, the effective area of the piston being smaller on its side directed towards one chamber than on its side directed towards the opposite chamber, a fluid supply, delivery connections to both chambers and a pump adapted to continually deliver fluid from the supply through the delivery connections to both cylinder chambers, a valve chamber, a pair of cooperating means including a revolving cam means and a feeler means engaging said cam, said cam means mounted for rotation on one of said members



and said feeler means mounted for axial displacement relatively to said other member in directions parallel to said machining displacements, drainage connections from a first one of said opposite cylinder chambers to said valve chamber and thence to said fluid supply, a valve body integral with the feeler means and reciprocable in said valve chamber in axial directions parallel to said machining displacements, spring means urging said valve-and-feeler means against the cam, and land means on the valve body adapted gradually to uncover said drainage connection when the valve-and-feeler means is displaced relatively to its associated member in the direction from said first cylinder chamber towards the other chamber, and vice-versa.

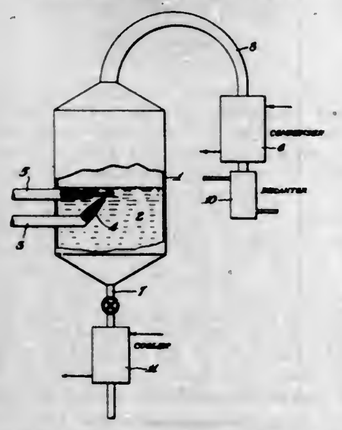
2,592,813
AUTOMATIC TELEPHONE SYSTEM PROVIDED WITH PARTY LINES
Clarence E. Lomax, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application June 8, 1949, Serial No. 97,892
10 Claims. (Cl. 179—17)



1. A telephone system comprising a party line including a pair of line conductors and a control conductor and adapted to serve a given maximum number of stations, a plurality of stations fewer in number than said given number operatively connected to said line conductors, a switch having access to said party line and including a plurality of ringing settings respectively correspond-

ing to said given number of stations, means for selectively operating said switch to select said party line and to select one of said ringing settings, means for testing over said control conductor both the busy or idle condition of said party line and the presence or absence of one of said stations corresponding to said selected one ringing setting, and means responsive jointly to testing of said party line as idle and to testing of the presence of one of said stations corresponding to said selected one ringing setting for ringing over said line conductors in accordance with said selected one ringing setting in order to signal said one station.

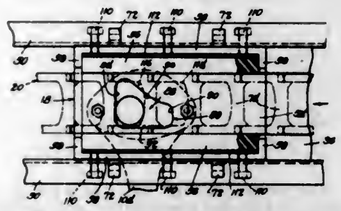
2,592,814
ISOLATION OF CHLOROSULFONATED POLYMERS OF ETHYLENE FROM SOLUTION
John L. Ludlow, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 20, 1947, Serial No. 792,886
1 Claim. (Cl. 260—79.3)



In a process for the isolation from solution of a chlorosulfonated polymer of ethylene, the steps which comprise forcing a carbon tetrachloride solution of a chlorosulfonated normally solid polymer of ethylene, containing from 6 to 10% by weight of the polymer, through an orifice and transversely into a steam jet directed across the orifice opening, the stream of polymer solution in carbon tetrachloride and the jet being submerged beneath the surface of water containing a colloidal dispersing agent and maintained at a pH of above 7 by the presence of a compound of the group consisting of alkali metal, alkaline earth metal and organic basic salts, the velocity and volume of flow of solution and steam being such that the polymer is atomized and freed from carbon tetrachloride as a granular crumb-like particle adapted for mixing and compounding on mill rolls with facility.

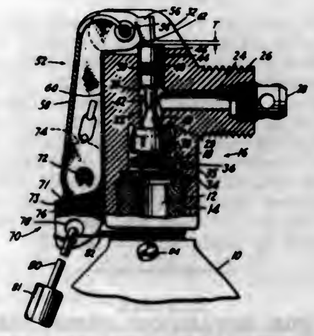
2,592,815
CEMENT GUN
Adolph F. Lakes, Waterloo, Iowa
Application March 20, 1946, Serial No. 655,862
4 Claims. (Cl. 302—49)

1. A discharge block for use with a continuous conveyor, which conveyor comprises a plurality of similar members, said members each having a single passage therethrough adapted to hold therein the material to be discharged, said discharge block having a conveyor passageway therein through which said conveyor passes, a pressurized fluid passageway through said discharge block, said passageways in said block intersecting each other, one branch of the intersected fluid passageway being an inlet, the other branch being an outlet, one end of each passage adapted to register with said inlet and the other end of said passage simultaneously registering with the outlet as the conveyor passes through said block, whereby pressurized fluid, when applied to said inlet, passes through the registering passages in said material holding members, entrains the material therein, and passes through said outlet; the improvement in



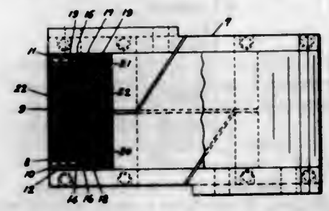
said discharge block wherein the leading edges of said inlet and outlet lie transverse to the leading and trailing edges of the ends of the passages so that the portions of the block adjacent and forward said leading edges of the inlet and outlet cover a portion of the ends of one passage which is partially registering with the inlet and outlet when a portion of the ends of the following passage has passed said leading edges of the inlet and outlet into partial register therewith, said covered portions of said one passage thereafter passing into register with said inlet and outlet, whereby a continuous flow of material is maintained at all times.

2,592,816
VALVE OPERATING MEANS
Daniel Mapes, West Caldwell, N. J., assignor to Specialties Development Corporation, Bloomfield, N. J., a corporation of New Jersey
Application December 21, 1945, Serial No. 636,352
2 Claims. (Cl. 251—132)



1. In a valve of the class described for a source of fluid medium under pressure including a valve casing having inlet and outlet ports, a valve seat between the ports, a valve member for the valve seat and a stem for unseating the valve member extending through the upper end wall of the casing: the combination of an L-shaped lever fulcrumed on the casing at the upper end thereof, said lever having an arm positioned for engaging and actuating the stem and having an elongate depending arm normally positioned adjacent and conforming substantially to an outer side wall surface of the casing and being adapted to be swung outwardly therefrom; a second lever pivotally mounted on said depending arm adjacent the lower end thereof and being normally positioned in substantially longitudinal alignment therewith and having a surface normally positioned against and conforming to the outer side wall surface of the casing, said second lever having an upper arm provided with an arcuate cam portion at its upper end for engaging the outer side wall surface of the casing and having a lower arm; and pull cord means attached to said lower arm adjacent the lower end thereof, said pull cord means being adapted to first rock said second lever to cause said cam portion to cooperate with the outer side wall surface of the casing and effect movement of said depending arm of said first lever slightly away from the casing wall whereby said first arm of said first lever effects actuation of the stem to partially unseat the valve member and said pull chord means thereafter being adapted for pulling said second lever away from the casing wall together with said depending arm of said first lever whereby further unseating of the valve member is effected.

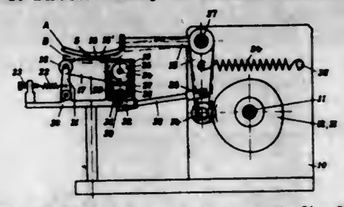
2,592,817
ELECTRIC COIL
Ian C. McKechnie, Detroit, Mich., assignor to Primeweld Corporation, Detroit, Mich., a corporation of Michigan
Application January 15, 1949, Serial No. 71,125
4 Claims. (Cl. 175—356)



2. In a device of the character described including a channel-like secondary winding having a primary winding comprising a plurality of layers of electrical conductors surrounding it and closely held thereby, the combination of pairs of heat and electrical conductive elements positioned between the respective layers of said primary winding, said heat conductive elements of each pair being alternately connected to the opposite ends of said secondary winding, there being an electrical insulating medium positioned between the elements comprising said pairs of heat conductive elements.

2,592,818
THREAD BRAKE
Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Freres, Société Anonyme, Winterthur, Switzerland,
Application June 28, 1945, Serial No. 602,074
In Switzerland November 22, 1944
13 Claims. (Cl. 242—147)

1. A brake for maintaining a predetermined tension in an axially moving thread, said brake comprising two members between which a length of said thread is pressed, one of said members comprising pliable strip material extending in the direction of movement of said thread substantially by the length of the pressed portion thereof, and provided with a mounting for subjecting it substantially to tensile force only, the



other of said members being periodically lifted from said pliable strip member.

2,592,819
CLAW CLUTCH
Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application August 27, 1945, Serial No. 612,864
In Switzerland January 20, 1945
5 Claims. (Cl. 192—67)

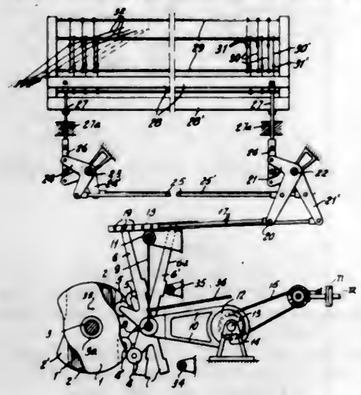


1. A rotary clutch mechanism comprising two clutch parts adapted to rotate relatively to one another through a predetermined angle of relative rotation, one part having a claw portion having a cylindrical surface and an end surface disposed at a right angle to the axis of rotation of the clutch, and a recessed portion in diametrically opposed position with respect to said claw portion; the other part having a claw portion and a recessed portion mating the recessed portion and the claw portion of the first part; a pawl member pivoted to the second clutch part on an axis parallel to the rotation axis of the clutch and having a portion adapted to drop into the recessed portion of the second clutch part; a recess in the claw portion of the first part adapted to receive said pawl member for preventing axial displacement of said claw portions into the mating recessed portions; the axial extension of said pawl member being greater than the axial extension of the claw portions and the axial extension of said recess being substantially equal to the difference between the axial extension of the clutch pawl and that of a claw portion, said recess being sufficiently short in arcuate length to lift the pawl out of engagement therewith and said pawl being adapted to ride on the cylindrical surface of the claw portion of the first part when relative rotation between the clutch parts takes place while the clutch parts are disengaged, for making the clutch ready for re-engagement after sufficient relative rotation of the clutch parts to place the claw portions and recessed portions in mating position.

2,592,820
HARNESS CONTROL
Albert Moessinger, Winterthur, Switzerland, assignor to Sulzer Freres, Societe Anonyme, Winterthur, Switzerland
Application December 11, 1946, Serial No. 715,515
In Switzerland December 12, 1945
16 Claims. (Cl. 139—56)

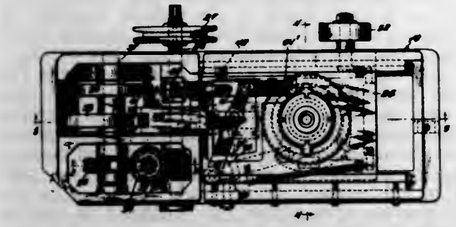
1. In a loom for weaving, a heddle frame, a heddle frame operating mechanism comprising

motion initiating means, a rocker member having a displaceable fulcrum and being connected with and adapted to be rocked by said initiating means and being connected with and operating



said heddle frame, and fulcrum displacing means connected with said fulcrum and adapted to temporarily afford displacement of said fulcrum and to render the effect of said initiating means on said rocker member ineffective.

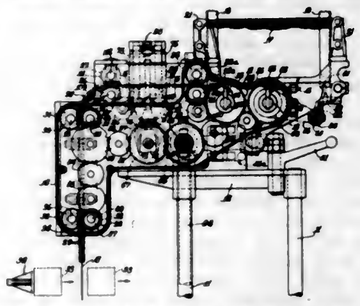
2,592,821
FIXTURE FOR MACHINE TOOLS
Edward E. Powell, Conimicut, R. I.
Application August 11, 1945, Serial No. 610,268
12 Claims. (Cl. 90—56)



1. A fixture for a machine tool comprising a frame adapted to be secured to a suitable support, a work carrier slidably mounted on said frame, a first cam means operable for reciprocating said carrier for feeding the work, and second cam means operable at the end of the return stroke of said carrier for indexing the work while said carrier is without movement.

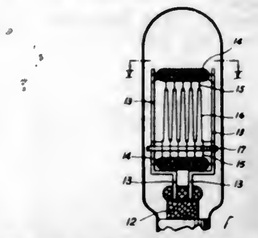
2,592,822
SHEET FEEDER MECHANISM
Earl J. Rapp and Harold R. Coon, Sr., Toledo, Ohio, assignors to Lynch Package Machinery Corporation, Toledo, Ohio, a corporation of Ohio
Application May 27, 1946, Serial No. 672,609
6 Claims. (Cl. 271—23)

1. Sheet feeding mechanism for feeding individual sheets of material to a wrapping station from a stack of sheet material comprising roller means for picking and moving a single sheet of material from said stack, a set of continuously operated engaging rollers for moving said single sheet away from said roller means after it has been conveyed to said engaging rollers by said roller means, a second set of continuously operating engaging rollers to which said sheet is directed for moving said sheet to said wrapping station, said first and second sets of engaging rollers being spaced apart a greater distance than the length of said sheets, and intermittently operated roller means for moving said sheet inter-



posed between said first and second sets of engaging rollers, whereby each individual sheet is stopped for a predetermined interval between the first and second sets of said engaging rollers.

2,592,823
ELECTRIC INCANDESCENT LAMP
Guglielmo Riccomagno, Milan, Italy
Application June 28, 1949, Serial No. 101,724
In Italy July 6, 1948
6 Claims. (Cl. 313—271)

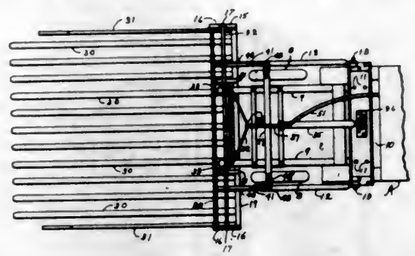


1. In an electric incandescent lamp for high speed rotation, including a base, an envelope, and two electric terminals near said base, in combination with, two longitudinal electrodes mounted to said base and extending in the interior of said envelope and being electrically interconnected to said terminals, two oppositely disposed insulators forming filament carriers supported by said electrodes in said envelope, a plurality of hooks secured to each carrier, a saw-tooth filament suspended on said hooks between said carriers and being electrically interconnected to said electrodes, and an insulating screen mounted on said electrodes and extending transversely between said filament and said base to shield the latter from heat rays emanating from the former.

2,592,824
AUTO SWEEP RAKE
Clarence B. Richey, Quincy, Ill., assignor to Electric Wheel Company, Quincy, Ill., a company of Illinois
Application September 10, 1945, Serial No. 615,304
1 Claim. (Cl. 56—27)

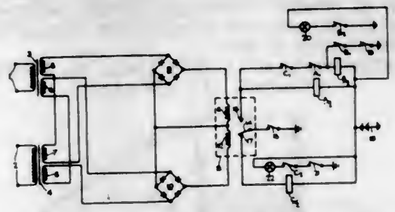
In a sweep rake attachment for a motor vehicle comprising in combination, an elongated transverse member adapted to be secured to the chassis of the motor vehicle, at a distance forward of the rear wheels thereof, bars hingedly secured at their front ends to the ends of said transverse member and extending rearwardly and downwardly, a sweep rake hinged near its lower rear

corner to the rear ends of said bars, another elongated transverse member mounted on said chassis frame and in rear of the rear wheels of the motor vehicle, chains secured to said bars adjacent their hinges to said sweep rake, their upper ends being adjustably secured to the ends of said other transverse member, a hydraulic cylinder transversely hinged at its front end to said first transverse member intermediate its ends, a source of liquid pressure having a valve with a



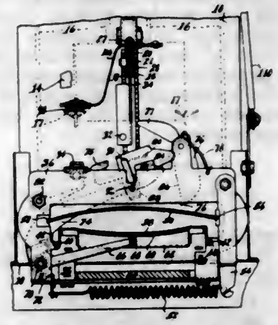
tube connection to the upper end of said hydraulic cylinder, said cylinder having a piston and a protruding piston rod, said piston rod having an operating connection to the upper end of the rear part of said sweep rake, whereby the front end of the rake may be raised and lowered on said hinges by manipulating said valve, and whereby the lowest position of the rear end of said sweep rake may be determined by raising and lowering the chain adjustment to the outer ends of said other transverse member.

2,592,825
FREQUENCY DIFFERENCE INDICATOR
Anatol Rutenberg, Shilton, near Coventry, England, assignor to The General Electric Company Limited, London, England
Application September 3, 1949, Serial No. 114,038
In Great Britain September 3, 1948
8 Claims. (Cl. 177—311)



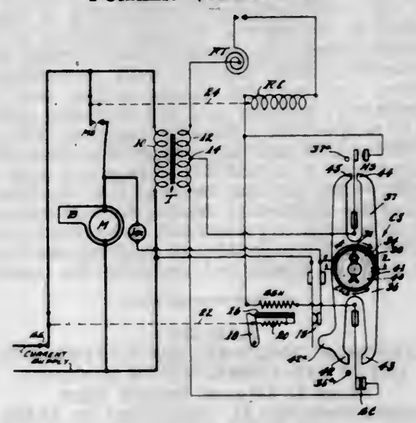
2. Apparatus for providing an indication in dependence upon a frequency difference between two electrical oscillations, comprising two pairs of terminals to which two electrical oscillations may be respectively applied, means connected to the two pairs of terminals for deriving from said two electrical oscillations two oscillations which each have a frequency equal to said frequency difference and are out of phase with each other, switching means, means for applying the two out-of-phase oscillations to said switching means, said switching means being operable at a frequency proportional to said frequency difference in response to the application of the two out-of-phase oscillations to the switching means, and indicating means operable by the switching means for giving an indication only when the frequency of operation of the switching means exceeds a predetermined value.

2,592,826
TOASTER TIMING MECHANISM
Frank W. Scharf, Arcadia, Calif., assignor, by mesne assignments, to Knapp-Monarch Company, St. Louis, Mo., a corporation of Delaware
Application January 3, 1947, Serial No. 720,065
6 Claims. (Cl. 161—1)



1. In a timer mechanism, a timer including an electric heater and a thermally responsive member, means to effect engagement between the two upon initiation of a timing period, a heat transfer shoe engageable with said heater at the termination of the timing period, and a heat dissipator with which said shoe is engageable during the timing period.

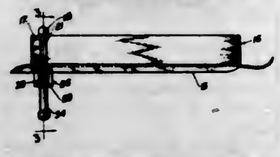
2,592,827
OIL BURNER SAFETY CONTROL SYSTEM
Paul Schell, Elkhart, Ind., assignor to Penn Controls, Inc., a corporation of Indiana
Application February 28, 1948, Serial No. 12,030
4 Claims. (Cl. 158—28)



1. In a burner control system: a transformer; a room thermostat; means including a relay operable upon energization to cause operation of the burner; a circuit including the secondary of said transformer and said relay, and controlled by said room thermostat; a first combustion responsive switch closed upon establishment of combustion; a second circuit including said first combustion switch, relay, thermostat and a portion of said secondary to maintain said relay energized from said portion only of said secondary; a second combustion responsive switch in said first circuit and normally closed but opened upon the establishment of combustion after closing of said first combustion switch; a safety shut-down switch controlling energization of said trans-

former and having an actuating element in said first circuit; and means for operating said combustion switches comprising a temperature actuated movable member, a first combustion responsive operator frictionally driven thereby, a second combustion responsive operator also driven thereby; said operators having means forming lost-motion connections with their respective switches; the lost motion of said first operator being less than that of said second operator to effect operation of said first combustion responsive switch ahead of said second combustion responsive switch when said temperature actuated movable member responds to both temperature rise and temperature fall.

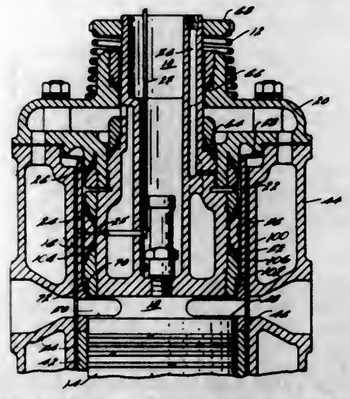
2,592,828
DESK PAD
Samuel Segal, New York, N. Y.
Application November 10, 1949, Serial No. 126,459
12 Claims. (Cl. 281—15)



1. In a pad holder for use with a pad of sheets having apertures in registry, a base for supporting the pad, an apertured portion in the base positioned for underlying registry with said apertures in the pad, a post extending through said apertured portion of the base and adapted to extend through the apertures in the pad, said post having an upper pad-engaging portion proportioned to overlap the apertures in the pad and positioned for engaging the topmost sheet of the pad, said pad-engaging portion being in spaced relation to the edges of the pad, whereby an unobstructed area is presented on said topmost sheet surrounding and adjacent said pad-engaging portion, and yieldable means urging said post downwardly, whereby said pad-engaging portion will be adapted for pressing engagement with the top of the pad, said pad-engaging portion being proportioned to permit it to engage and upset the circular edge portion defining the aperture in each of the sheets and thereby enlarge the aperture sufficiently to permit said pad-engaging portion to slidably pass through said enlarged aperture upon an operative removal of the topsheet.

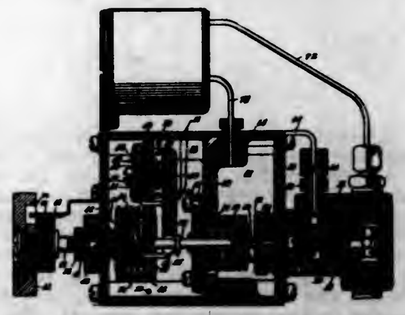
2,592,829
VARIABLE COMPRESSION SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Ralph L. Skinner, Detroit, Mich.
Application May 21, 1948, Serial No. 28,478
8 Claims. (Cl. 123—48)

1. In combination with an internal-combustion engine having a combustion chamber and a power piston in said combustion chamber, inner and outer wall members collectively forming a top closure for said combustion chamber, said outer wall member being disposed around and spaced circumferentially from the inner wall member and the latter being adjustable to vary the clearance volume of the combustion chamber, at least one essentially thin, annular, frusto-conical, flexible and resilient sealing reed interposed between the wall members, and means mounting said reed on one of said wall members with the edge of the reed bearing at an oblique angle against the other of said wall members, said mounting means having an under supporting surface for the reed and the latter being flexed over the edge of the supporting surface to press the edge of the reed solidly against the surface on which it edgewise bears, the bearing edge of said reed being beveled to present an essentially sharp sealing and scraping edge to said other wall and said bevel edge adapted to scrape along the wall surface engaged thereby during movement of said inner wall member whereby to keep said wall surface free from carbon and other deposits which ac-



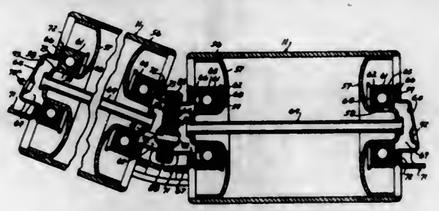
cumulate during operation of the engine and tend to bind or freeze said inner wall member, a portion of the supporting surface adjacent to the wall engaged by the bearing edge of the reed being recessed away from the reed and exposing a relatively large area of the reed to explosions and pressure changes in the combustion chamber whereby said explosions and pressure changes create vibrations in the reed which assist in maintaining the reed and the wall engaged thereby free from carbon and the like.

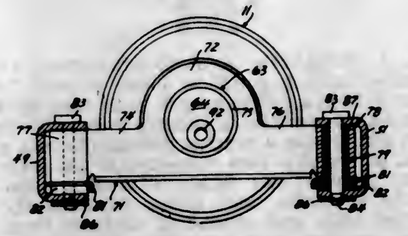
2,592,830
CONTINUOUS FLOW OXYGEN REGULATOR
James A. Sneller, Cleveland, Ohio, assignor to The Aro Equipment Corporation, Bryan, Ohio, a corporation of Ohio
Application June 13, 1946, Serial No. 676,436
5 Claims. (Cl. 137—153)



1. An oxygen regulator comprising a regulator casing, a high pressure chamber in the casing for receiving high pressure oxygen, a low pressure chamber in the casing for receiving low pressure oxygen from the high pressure chamber, a control valve between said high pressure chamber and said low pressure chamber, said high pressure oxygen tending to force said valve to a closed position, an inlet to said high pressure chamber, an outlet conduit from said low pressure chamber, a pressure responsive bellows subject on one side thereof to the pressure of the oxygen within said low pressure chamber, the other side of said bellows being subject to atmospheric pressure, an aneroid subjected to atmospheric pressure, a pressure responsive compensator having a movable member therein, means connecting said high pressure chamber to said pressure responsive compensator whereby the movable member therein is subjected to the same high pressure, a rigid link slidably journalled intermediate its ends in said casing and engaged in bearing relation at the ends thereof by said aneroid and said pressure responsive bellows, means biasing said control valve into bearing engagement with said pressure responsive bellows, whereby the forces of the aneroid and the pressure responsive bellows are transmitted to the control valve, and means for transmitting the force exerted by the movable member in said compensator to said rigid link to move said valve toward a valve opening position, said aneroid acting against the pressure of said bellows to open said valve upon increases in altitude to maintain a pressure in said low pressure chamber at a predetermined value below inlet pressure depending on said altitude, said valve and said compensator movable member being so dimensioned that the effect of said high pressure oxygen on said valve is substantially balanced regardless of the pressure of the high pressure oxygen.

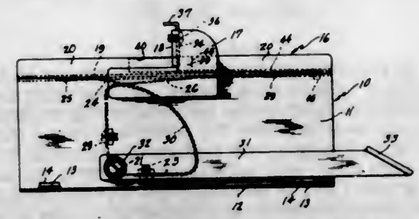
2,592,831
TROUGHING ROLL
Samuel J. Spurgeon and Rushton O. Kimbro, Birmingham, Ala.; said Kimbro assignor to said Spurgeon
Application December 31, 1947, Serial No. 795,070
6 Claims. (Cl. 198—192)





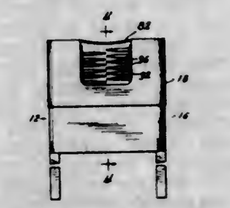
4. In a conveyor mechanism embodying a plurality of belt supporting rolls disposed end to end, a bearing in each end of each roll, stationary bearing housings relative to which the rolls are adapted to turn, a member of resilient material between and engaged by the ends of adjacent bearing housings, means to supply lubricant to the bearings of said rolls embodying a lubricant passage connecting the bearing housings of each roll, there being a passage through said member of resilient material and bearing housings to permit a flow of lubricant from one adjacent bearing housing to the next, a frame for supporting the bearing housings, and resilient members interposed between the housings and supporting frame.

2,592,832
VEGETABLE SLICER
John J. Strand, Ansonia, Conn., assignor to The Strand Brothers Manufacturing Company, Incorporated, Derby, Conn., a corporation of Connecticut
Application October 23, 1948, Serial No. 56,217
8 Claims. (Cl. 146—78)



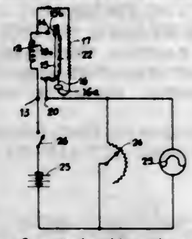
1. A vegetable slicer comprising a base frame including laterally spaced upright side members provided with guide means adjacent their upper edges, a vegetable supporting slide mounted for longitudinal reciprocating movement in said guide means, a transverse slicing blade carried by the slide for slicing the vegetables, an upright transverse abutment carried by the frame above the slide, to hold the vegetables while being sliced, a shaft below the slide and mounted in the side members, curved segment means carried by the shaft, flexible straps secured to the segment means to move alternately and simultaneously to and from a position on the curved portion of the segment means on oscillation of said means and extending in opposite directions therefrom and secured to the slide at their free ends on opposite sides of the shaft, and means for oscillating the shaft to reciprocate the slide.

2,592,833
APPARATUS FOR STRIPPING LEAVES FROM FLOWERS
Oscar W. Swanson, Ottumwa, Iowa, assignor to Barker Poultry Equipment Company, Ottumwa, Iowa, a corporation of Iowa
Application January 20, 1947, Serial No. 723,036
11 Claims. (Cl. 47—1)



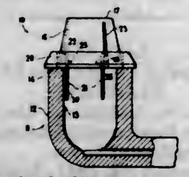
1. In a machine of the kind described, a frame, a pair of radially spaced shafts rotatably mounted on the frame, each of said shafts having a plurality of angularly spaced radial fingers, each of said fingers being of generally elongated formation and having its outer portion generally flattened and tapered toward its outer end, said flattened portion having its flat sides lying in the plane of movement of the finger incident to rotation of its shaft, angularly adjacent ones of said fingers being in axially offset planes, and means for rotating said shafts.

2,592,834
HYDROCARBON GAS DETECTOR
Carter Tiffany, Englewood, N. J.
Application November 26, 1947, Serial No. 788,230
6 Claims. (Cl. 23—255)



1. Apparatus for detecting tne presence of hydrocarbon vapors comprising: a base member; an armature having one end resiliently mounted upon said base member the other end being movable; an expansible wire electrically in series with said armature, said wire being secured to said base member at one extremity thereof and secured to the movable end of said armature at the other extremity thereof, whereby the armature is held thereby in a preselected position; a solenoid associated with said armature and adapted for attracting same when energized, said solenoid comprising a core and a coil; means for interconnecting the extremity of said expansible wire which is secured to the base member to said solenoid; the latter and said armature being adapted for connection with a source of electric energy; and a catalyzer comprising platinized asbestos surrounding at least a portion of said wire.

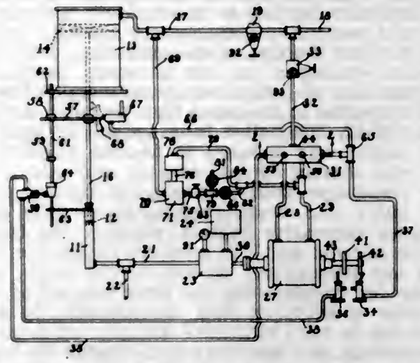
2,592,835
COLLAPSIBLE LIGHTING SHIELD FOR TOBACCO PIPES
Jules Ungar, New York, N. Y.
Application April 18, 1947, Serial No. 742,430
7 Claims. (Cl. 131—176)



1. A device including a generally tubular lighting shield adapted to seat on the rim of a tobacco pipe bowl, means engaged with the shield for axial movement to projected and retracted positions, including a plurality of angularly spaced pins engaging the pipe bowl in the projected position of said means, the portions of the pins at their lower free ends and portions of the shield adjacent to the lower end thereof having resilient snap engagement with each other transversely of the pins by resilient action of the pins, to maintain said means in retracted position, the snap engagement being opened and closed by axial forcible movement of the said means.

2,592,836
ACCUMULATOR
Donald J. Weber, Richwood, Ohio, assignor to The Yardley Plastics Company, Columbus, Ohio, a corporation of Ohio
Application June 30, 1947, Serial No. 758,168
12 Claims. (Cl. 103—11)

1. A system for maintaining liquid under pressure comprising a liquid pressure cylinder; a gaseous fluid pressure cylinder cooperating therewith; means for pumping liquid to the liquid cylinder; and means operated on each stroke of



the pumping means for releasing a portion of the gaseous fluid from said gaseous fluid cylinder.

2,592,837
PYROPHORIC LIGHTER
Eric Wedemeyer, Floral Park, N. Y., assignor to Hamilton Art Metal Corporation, New York, N. Y., a corporation of New York
Application January 26, 1950, Serial No. 140,610
4 Claims. (Cl. 67—4.1)



1. A pyrophoric lighter comprising a body member having a hollow lower portion for receiving fuel, a cavity in said body member above said hollow portion, a slidably removable lighter unit comprising a bracket member having a vertical bore and a flint magazine in the form of a stem portion, the latter extending into said cavity, a tubular wick holder permanently connected with and extending upward from said body member and extending slidably through said bore and defining the horizontal position of said bracket member on said body member, catch means swingably connected with said bracket member, said lighter unit comprising closure means including two shell-like parts: a first part loosely rockably mounted on said stem portion and having an arcuate edge portion, a second part pivotally connected with said bracket member and comprising a snuffer cap and means adapted to be engaged by said catch means for holding said second part in closed position, said second part having an arcuate edge portion conforming with the arcuate edge portion of the

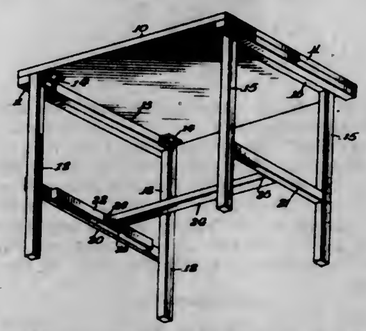
first part, said edge portions abutting each other and said two parts forming a lid when said second part is engaged by said catch means, said second part pushing said first part out of its way and rocking it until overlapped thereby upon release of said catch means and opening of the lid.

2,592,838
LOADING MECHANISM FOR PNEUMATIC GUNS
William S. Wells, Palo Alto, Calif., assignor to Daisy Manufacturing Company, Plymouth, Mich., a corporation of Michigan
Application June 28, 1948, Serial No. 35,593
5 Claims. (Cl. 124—51)



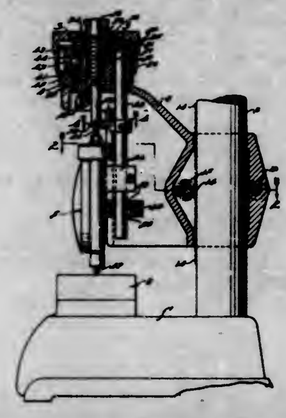
5. A pneumatic gun comprising a frame having a barrel, a magazine spaced laterally from the barrel and adapted to retain a plurality of skirted pellets in end to end relation with the skirt portions extending rearwardly, a recess connecting the delivery end of the magazine to the breech end of the barrel, a member supported for sliding movement in directions fore and aft of the barrel, an element connected to said member and having a portion thereof projecting into the skirt end of the rearmost pellet in the magazine when said member is in its forwardmost position, said element being movable rearwardly upon rearward movement of said member to guide the pellet into the recess, upon upward tilting of the barrel muzzle end of the gun, and means for transferring the pellet to the breech end of the barrel after the pellet has been guided into the recess.

2,592,839
FOLDING TABLE
August Wessig, Chicago, Ill.
Application August 19, 1947, Serial No. 769,398
1 Claim. (Cl. 311—84)



A folding support comprising: a top; leg structures hinged to and foldable under the top, each structure including a pair of legs and a cross-bar having its ends rigidly secured to one pair of legs; a strut adapted to extend between the cross-bars; devices for detachably connecting the ends of the strut to the cross-bars, each device including a plate formed of flat metal bent to form integral horizontal and vertical flanges, the horizontal flange fitting on and secured on the top face of the strut, each end of the strut being spaced from and parallel to one of the vertical flanges, and a plate formed of flat metal having its ends fitting against and secured to inner face of a cross-bar and a central outstruck portion parallel to the inner face of the cross-bar to form an open-ended socket substantially conforming in cross-section to the cross-sectional shape of said vertical flanges, the outstruck portions fitting snugly between the ends of the struts and the vertical flanges, and devices for yieldingly securing the vertical flanges in the offset portions, each including a socket in a cross-bar, a spring-pressed ball in said last named socket and a seat for the ball in the outer face of one of the vertical flanges.

2,592,840
MEASURING GAUGE
Russell E. Bauer, Detroit, Mich.
Application October 30, 1944, Serial No. 560,976
2 Claims. (Cl. 33—172)

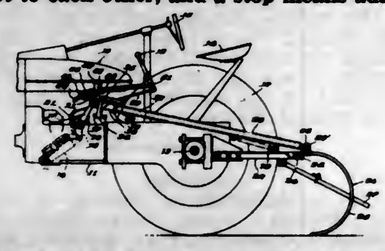


1. A measuring gage comprising a stanchion, a mounting member mounted on said stanchion, a micrometer mounted on said member, said micrometer including a depending, adjustable spindle, a dial indicator mounted on said member and having a plunger disposed below and engageable with said spindle, a depending work-engaging member attached to the indicator, said spindle and said plunger being axially aligned and said work-engaging member being disposed on the same axis, and means mounting said dial indicator on said member for limited vertical movement with respect to said member and said micrometer spindle, said last named means including a rod mounted on said member to one side of the axis of said spindle with the axis of the rod parallel to the axis of the spindle, means forming spaced, axially aligned, tapered openings in said member, said openings being formed on the same taper, tapered bushings disposed in said openings and slidably receiving said rod therein, and means connecting said dial indicator to said rod for movement therewith.

2,592,841
TRACTOR OPERATED DUMP RAKE
Russel D. Acton, Chicago, Ill.
Application December 29, 1945, Serial No. 638,285
8 Claims. (Cl. 56—27)

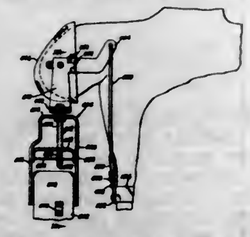
1. For a tractor having a power actuating mechanism, a power lift arm operably connected to said power actuating mechanism, means for moving said power lift arm to a plurality of positions, in combination, a rake adapted to be pivotally connected to said trac-

tor and adapted to be moved to and from an operating position, a pair of telescoping members connected to said rake and to said power lift arm, a release member associated with said telescoping members for locking said telescoping members against relative movement with respect to each other, and a stop means adapted



to be associated with said tractor, said release member being positioned to engage said stop means upon movement of said rake to a predetermined lifted position, thereby actuating said release member to release said telescoping members for relative movement and lowering said rake to an operating position.

2,592,842
SHOULDER HARNESS FOR ARTIFICIAL ARMS
Samuel W. Alderson, New York, N. Y.
Original application July 10, 1948, Serial No. 38,018. Divided and this application May 17, 1951, Serial No. 226,883
11 Claims. (Cl. 3—12.1)



1. For use by extreme case amputees as defined, a cap-like member adapted to be received over the shoulder or short stump of the amputee, a pendulous suspension member pivotally secured to said cap-like member, an artificial arm having an upper arm section secured to said pendulous member, means for maintaining said upper arm section and pendulous member in permanent axial alignment, a bracket secured to said pendulous member and extending laterally therefrom, a waist band or the like adapted to be worn by the amputee, and a cord operatively connecting said waist band and the free end of said bracket.

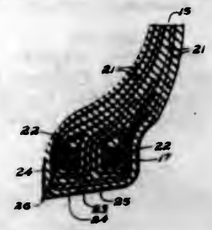
2,592,843
SPRING ACTUATED SLIDE SNAP HOOK
Boley A. Andrews, Kansas City, Kans., assignor, by mesne assignments, to The Vendo Company, Kansas City, Mo., a corporation of Missouri
Application November 22, 1948, Serial No. 61,475
1 Claim. (Cl. 24—239)

A rod-receiving coupling comprising an elongated, flat link having a U-shaped recess formed in one longitudinal edge thereof; an elongated, U-shaped body mounted on the link and having a bight slidably engaging said one longitudinal edge of the link and a pair of spaced, parallel side walls, slidably engaging corresponding sides of the link and integral with said bight, said side walls each having an elongated, longitudinally extending slot formed therein and a U-shaped notch in one end thereof proximal to the recess, said notches each having a pair of straight edges disposed in converging relationship as the innermost ends thereof are approached; an outturned, finger-receiving flange on each side wall of the body adjacent the opposite end thereof; a transverse guide pin affixed to the link and extending through said slots of the side walls for holding said bight in engagement with said edge



of the link; and a spring having one end thereof attached to said pin and the opposite end thereof attached to one of said flanges for pulling the flanges toward the pin and thereby yieldably holding the body at one end of its path of travel on the link with the notches registering with said recess, with the mouth of the recess closed by a portion of said side walls and said bight and with the mouths of the notches closed by a portion of the link, whereby to receive said rod in engagement with the notches and the recess at the bights thereof, said last mentioned bights being arcuate.

2,592,844
TIRE CONSTRUCTION
John O. Antonson, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application January 13, 1949, Serial No. 70,771
14 Claims. (Cl. 152—362)

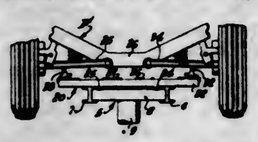


1. An inflatable tire comprising a hollow annular body of resilient rubber-like material open at the radially inner portion, said tire having wheel-engaging bead portions at the inner periphery and each of said bead portions having a sheet of heat-shrinkable synthetic polymeric organic material embedded in and completely surrounded by the rubber-like material of said tire in close proximity to the outer faces of the bead portions.

2,592,845
CHASSIS SUPPORTING STRUCTURE FOR VEHICLE LIFTS
Edmund Aron, South Pasadena, Calif., assignor to Moto-Sway Corporation of America, South Pasadena, Calif., a corporation of California
Application October 31, 1949, Serial No. 124,663
2 Claims. (Cl. 254—89)

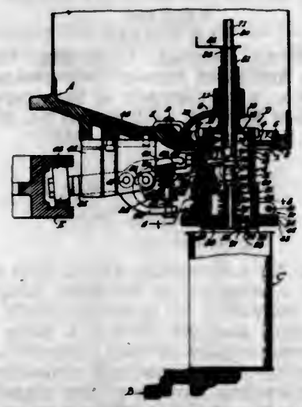
1. In a vehicle support structure for use with a vehicle lift having a pair of longitudinal support rails: a transverse member adapted to overlie said rails and be supported thereon, and having an upwardly facing surface; a pair of elements slidably mounted on said surface re-

spectively adjacent the opposite ends thereof; means guiding said elements for movement in a direction transverse to said rails; means for



moving said elements; and a chassis engaging member pivotally mounted on each element for limited movement about a longitudinal axis.

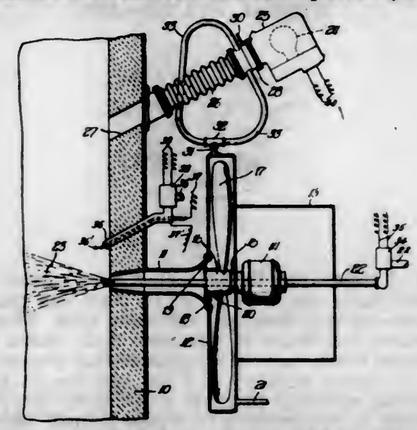
2,592,846
FILLER VALVE AND ACTUATING MECHANISM THEREFOR
Harry D. Ayars, Salem, N. J.
Application September 27, 1949, Serial No. 118,148
17 Claims. (Cl. 226—98)



5. In a container filling machine, a support for a container to be filled; a filler valve body; means mounting said valve body above said support for movement from a normal position out of engagement with a container on the support downwardly into sealing engagement with the container; a valve element carried by and movably mounted in said valve body; and means for first moving said valve body from normal position into sealing engagement with the container and then moving said valve element to open position comprising a common actuating member, and mutually independent connecting means respectively between said common actuating member and said valve body and between said common actuating member and said valve element, said connecting means including a yieldable motion-transmitting spring between said actuating member and said valve body, and a lost-motion operating connection between said actuating member and said valve element.

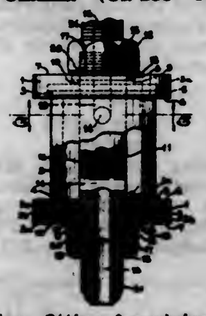
2,592,847
PROTECTING SYSTEM FOR PHOTOELECTRIC CELLS IN LIQUID FUEL BURNER CONTROLS
George Babiec, Chicago, Ill.
Application January 20, 1948, Serial No. 3,246
6 Claims. (Cl. 158—28)

1. In a liquid fuel burning apparatus, a housing defining a fire chamber, said apparatus including means for supplying, dispersing and igniting the fuel for causing the same to be consumed in said fire chamber, a tube supported outwardly of said fire chamber and opening thereon, a photo-electric cell mounted at the outer end of said tube, said photo-electric cell being directed upon said fire chamber, said tube being provided with a transparent slide in a transverse relation therewith intermediately of said fire chamber and said photo-electric cell, said photo-electric cell being adapted to respond to combustion failure to render said means inoperative, and



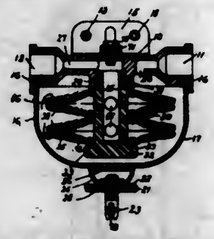
means for engendering a symmetrical velocity profile of air in said tube intermediately of said slide and said fire chamber and expelling the air into said fire chamber, said last named means including at least a pair of air conduits connected with said tube for injecting therethrough air under pressure.

2,592,848
SIGHT GLASS FITTING FOR PIPING SYSTEMS
Philip Baird, Cincinnati, Ohio, assignor to Cee-Kleer Products, Inc., Cincinnati, Ohio, a corporation of Ohio
Application September 30, 1948, Serial No. 51,997
9 Claims. (Cl. 138—37)



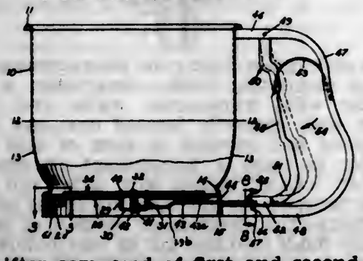
1. A sight glass fitting for piping systems containing circulating fluids, comprising; a hollow cylinder with transparent walls, end closure means with centrally located openings therein positioned and secured to ends of said hollow cylinder to form a transparent chamber and centrally located means with axial and lateral spaced passages in the ends thereof to interrupt and change the direction of the flow of said circulating fluids into and out of said hollow cylinder, secured in the openings of said end closure means to secure said hollow cylinder to said end closure means and other means for securing said sight glass fitting in said piping system and securing said end closure means to said hollow cylinder and centrally located means to form an inspection medium for fluids flowing through said piping system.

2,592,849
FILTER
Ronald A. Bailey, Bletchley, England, assignor to Wipac Filtration Limited, Bletchley, England, a company of Great Britain
Application May 2, 1949, Serial No. 90,923
In Great Britain May 12, 1948
8 Claims. (Cl. 210—181)



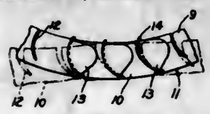
1. A filter for liquid including a vessel, the vessel enclosing a stack of at least one pair of frusto-conical filtering elements each filtering element consisting of a pressed sheet metal perforated frusto-conical annulus having projections on its inner surface, and an annulus of sheet filtering material fitted as a lining to the inner surface of the perforated frusto-conical annulus and held in place by two annular flanges formed by unperforated borders of the perforated annulus bent inwards and towards each other so as to overlie the radially inner and outer borders of the filtering annulus, the filtering elements being pressed together base to base by means of a tie consisting of a headed tubular screw engaged in an internally-screw-threaded port in said vessel, said screw passing co-axially through and fitting central apertures in the said elements, said screw furthermore having an annular abutment formed on its head and having at least one port communicating with the space within each pair of elements, a second annular abutment being formed on the vessel adjacent said internally threaded port, the annular abutments engaging the radially inner borders of the end elements of the stack, and two liquid ducts communicating respectively with the enclosed space outside the stack and with the interior of said screw.

2,592,850
SIFTER
Lucille M. Barbery, Minneapolis, Minn., assignor to Foley Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Application April 20, 1951, Serial No. 222,121
6 Claims. (Cl. 209—357)



1. A sifter composed of first and second subassemblies which are completely separable so as to facilitate washing, the first sub-assembly comprising a cylindrical open bottom container having a seating ledge around its interior, a handle for the container, a lever pivotally mounted on the handle in a position to be operated by the fingers of the operator when holding the handle, means for biasing the handle in one direction, and an operating link having one of its ends connected to the lever so as to be moved thereby and having its other end provided with pivot means, said link being positioned so as to extend into and terminate with said pivot means in said container; the second sub-assembly comprising a screen reinforced at the edge and shaped so as to fit into and rest against the seating ledge of the first sub-assembly, said screen being provided with a journal extending therethru, an agitator shaft mounted for rotation in the journal, an agitator and an operating crank mounted on the shaft so as to rotate therewith, said operating crank being formed for releasable connection to and disconnection from the pivot means of said link, and means permanently secured to one of said sub-assemblies and manually movable to release and secure said subassemblies together.

2,592,851
FAN WHEEL
Rudolph Bruce Beranek, Columbus, Ohio, assignor to American Blower Corporation, Dearborn, Mich., a corporation of Delaware
Application April 10, 1950, Serial No. 154,989
3 Claims. (Cl. 230—134)

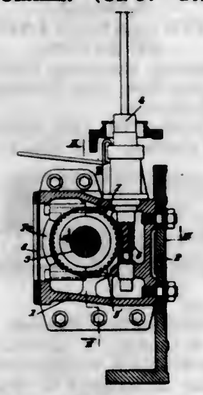


1. A rotor for cooperating with a fluid medium, comprising a supporting member adapted for concentric mounting on a rotary shaft, an annular carrying member having a body portion secured concentrically to said supporting member, a plurality of fluid medium contacting blade members extending normal to the plane of said carrying member and each having an end flange lying against said carrying member, an annular locking member having a plurality of blade member spacing slots therethrough of greater length than the depth of said blade members and receiving said blade members, said locking member seated against and holding said flanges to said supporting member, said blade members having upper and lower edge recesses at said end flanges, said carrying member having inner and outer peripheral portions extending toward each other in overlying relation to said body portion to provide channels, said locking member and said flanges extending into said channels, said peripheral portions extending into said recesses and engaging said blade members to position said blade members longitudinally of said slots and said peripheral portions clamping said locking member and said flanges to said carrying member.

2,592,852
PROCESS OF PRODUCING DYED LUSTROUS PRINTED PATTERN EFFECTS USING ACID-CURING RESINS AND FREE LEUCO BASES OF VAT DYES
George Alan Billingsley, Jr., and William P. Hall, Wilmington, Del., assignors to Joseph Bancroft & Sons Co., Wilmington, Del., a corporation of Delaware
No Drawing. Application April 9, 1948, Serial No. 20,114
9 Claims. (Cl. 8—18)

1. The process of producing durable colored lustrous pattern effects on cellulose textile fabrics which consists in printing the fabric with the desired pattern with an aqueous printing paste containing a vat dyestuff in free leuco base form and thermosetting acid-curing resin forming materials, said paste containing a sufficient quantity of acidic material to ensure the existence of an acid environment during the heating hereinafter mentioned, drying the printed fabric to from 5% to 15% moisture by weight of the fabric above natural moisture content, passing the dried fabric through a pressure mechanical finishing machine, heating to polymerize the resin forming materials to insoluble form, and washing the fabric.

2,592,853
MULTIPLE SPINDLE SPINNING MACHINE OF THE WORM AND WORM WHEEL DRIVE TYPE
Louis Birkigt, Versoix-Geneva, Switzerland, assignor to Society "Hispano-Suiza" (Suisse) S. A., Geneva, Switzerland, a society of Switzerland
Application March 13, 1951, Serial No. 215,247
In Luxemburg March 30, 1950
3 Claims. (Cl. 57—102)



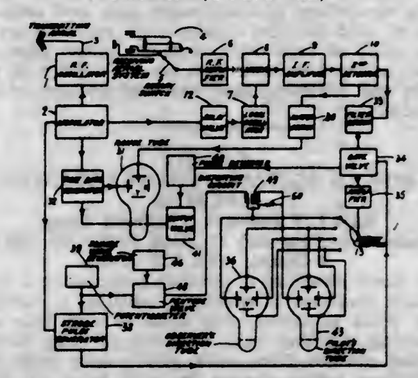
1. A multiple spindle spinning machine which comprises, in combination, a plurality of spinning spindles mounted on this support, a worm carried by each of said spindles, a support, a shaft extending in said support, a plurality of worm wheels carried by said shaft in mesh with said worms, a plurality of bearings for said shaft carried by said support, said shaft being made of a plurality of sections disposed end to end, a device for coupling the end of each shaft section with the adjacent end of the next shaft section, this coupling device including a coupling member in line with said shaft sections, two tenon and mortise cooperating means for assembling the adjoining ends of said member and each of said shaft sections, two sleeves slidable along said shaft sections each arranged to cover one of said tenon and mortise means, and means for detachably securing said sleeves on said shaft sections respectively, and a worm wheel carried by each of said sleeves, each of said last mentioned worm wheels being one of the above mentioned plurality of worm wheels.

2,592,854
TOOL JOINT WEAR SLEEVE
Elvin G. Boice, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application February 8, 1946, Serial No. 646,461
7 Claims. (Cl. 308—4)

1. A tool joint comprising cooperating coupling members, a wear sleeve partially encasing at least one of said coupling members and having an external circumference greater than that of said coupling members, said coupling members having axially spaced abutments engaging the ends of said sleeve to retain the same in position on the assembled joint, said sleeve having a circumferential groove adjacent one end to enable the sleeve to be slightly axially compressed between said abutments to facilitate assembly of the joint.



2,592,855
RADIO LOCATING APPARATUS
Edward George Bowen, Cambridge, Mass., and Ronald William Taylor, Malvern, Frederick Calland Williams and Robert Hanbury Brown, Great Malvern, and Arthur Gerald Touch, Farnborough, England, assignors to Minister of Supply in His Majesty's Government of Great Britain and Northern Ireland, London, England
Application December 21, 1942, Serial No. 515,119½. In Great Britain December 25, 1942
6 Claims. (Cl. 343—11)



1. Radio-locating apparatus for a mobile vehicle such as an aircraft, comprising a transmitter for radiating a pulse-modulated exploring beam, a receiving aerial system for picking up echo signals produced by reflection of the exploring pulses from a distant body, said aerial system consisting of a plurality of directional aerial arrays, arranged at four cardinal positions about the line of movement of the vehicle, a receiver, first switching means for connecting each of said aerial arrays in turn to said receiver, cathode ray tube indicating apparatus consisting of at least two cathode ray tubes, time base generating means

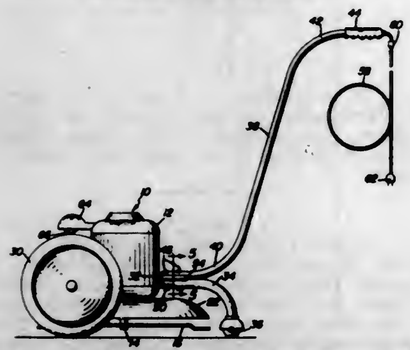
synchronized with said transmitter for providing a linear time base for a first cathode ray tube, means for applying the output of the receiver to said first cathode ray tube to provide an indication of the range of the distant body by deflection of the linear time base trace, second switching means operated in synchronism with said first switching means for applying the echo signals derived from each of said aerial arrays in turn to the deflecting means of said second cathode ray tube to provide an indication of the bearing of said distant body in both azimuth and elevation.

2,592,856

HANDLE MEANS AND SUPPORT STRUCTURE FOR POWER LAWN MOWERS

Clarence E. Brockman, Strafford, Mo.

Application April 3, 1950, Serial No. 153,745
1 Claim. (Cl. 180—19)



In a power lawn mower having a motor casing and a curved pipe secured at one of its ends thereto and supporting a swivel wheel at its other end, an elongatd tubular handle having a curved portion at one of its ends and means securing said one end portion of said tubular handle on said pipe, said means including a pair of headed bolts extending through said pipe and said one end of said handle, closure nuts received on the free ends of said bolts, and elongated pipe sections secured to said pipe on both sides of said bolts and abutting said one end portion of said handle.

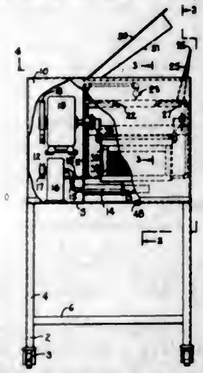
2,592,857

POWER AGITATED PARTS CLEANING MACHINE

Earl L. Chadwick, Portland, Oreg.

Application February 23, 1946, Serial No. 649,619
1 Claim. (Cl. 134—140)

A parts cleaning apparatus comprising a dolly, a tank thereon for cleaning solution, a pump on said dolly adjacent said tank to circulate such cleaning solution into and out of said tank, a piping system from said pump into said tank including spray means in said tank to spray cleaning solution from the top of said tank downwardly thereinto, a motor carried by said dolly outside of said tank, a drive shaft therefrom extending into said tank, pairs of spaced eccentric crank arms mounted in said tank on each of the opposite sides, a sprocket connected to each of the crank arms on each side, a chain connecting the sprockets of each side, cross shafts joining the opposite crank arms, said drive shaft being connected to one of said sprockets to drive said crank arms and cross shafts, a parts carrying screened basket hanging on said cross shafts to be raised and lowered to dip into as said arms are rotated by said motor and out of the cleaning solution in said tank to raise the basket and parts



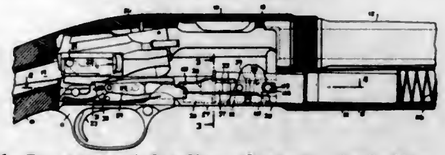
to be sprayed, and to dip the basket and parts back into the solution.

2,592,858

SERRATED CARRIER LATCH FOR FIREARMS

Ralph E. Clarkson, Hamden, Conn., assignor to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware

Application October 28, 1949, Serial No. 124,117
5 Claims. (Cl. 42—17)



1. In an autoloading firearm, including in combination: a barrel; a tubular magazine; a receiver; a breechblock reciprocably mounted in said receiver for movement to and from barrel-closing position; a cartridge-carrier movably mounted in said receiver and arranged to be actuated by reciprocable movement of said breechblock to transfer a cartridge from said tubular magazine into the path of movement of said breechblock for chambering in said barrel; carrier-latch means carried by said receiver and arranged to lock said carrier in position to receive a cartridge from said tubular magazine; and cartridge guard-means comprising a plurality of longitudinal serrations within said receiver adjacent one side of said cartridge-carrier and disposed above the upper surface thereof, said plurality of serrations being arranged to be engaged by the head of a cartridge as said cartridge is delivered onto said carrier from said tubular magazine to hold the head of said cartridge down on said carrier in operative engagement with said carrier-latch for unlocking said carrier.

2,592,859

SULFATHIAZOLE PREPARATION

Thomas F. Cleary, Jr., New Brunswick, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Application June 29, 1946, Serial No. 680,513
2 Claims. (Cl. 260—239.95)

1. In the method of preparing sulfathiazole, the step of reacting two mols of a p-R-benzenesulfonyl halide, R representing a substituent capable of conversion into an amino group and selected from the class consisting of acylamino, nitro, azo and halo, with one mol of 2-amino-thiazole in the presence of an acid-binding agent, in a medium essentially comprising acetone and a substantially-saturated aqueous solution of an alkali halide, while maintaining the phases of the medium in intimate contact with each other.

2,592,860

PROCESS FOR PREPARING SULFATHIAZOLE

Thomas F. Cleary, Jr., New Brunswick, N. J., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York

No Drawing. Original application June 29, 1946, Serial No. 680,513. Divided and this application August 12, 1950, Serial No. 179,371
4 Claims. (Cl. 260—239.95)

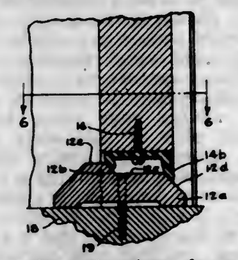
1. In the method of preparing sulfathiazole, the step of hydrolyzing a di-(p-R-benzenesulfonyl) derivative of 2-amino-thiazole with an aqueous solution of a member of the group consisting of ammonia and guanidine, R representing a substituent capable of conversion into an amino group and selected from the class consisting of acylamino, nitro, azo and halo.

2,592,861

DOOR SEALING STRUCTURE

Winston A. Close, Minneapolis, Minn., assignor to Sylvester H. Cargill, Minneapolis, Minn.

Application February 7, 1946, Serial No. 646,118
3 Claims. (Cl. 20—64)



3. A door sealing structure for a door having the usual flat bottom surface comprising a sill having a pair of surfaces spaced transversely thereof each inclining upwardly in the direction in which said door swings as it reaches closed position, said surfaces being disposed at different elevations, a formed member of flexible resilient material secured against said flat bottom surface of said door for substantially the entire width of said door, said member having downwardly extending flexible projections spaced transversely of said door and of different lengths, constructed and arranged respectively to engage said surfaces, the shorter of said projections engaging the one of said surfaces at the higher elevation, said projections being flexed by said engagement so as to exert pressure on said surfaces whereby a tight seal is formed and an insulating air chamber is formed between said portions.

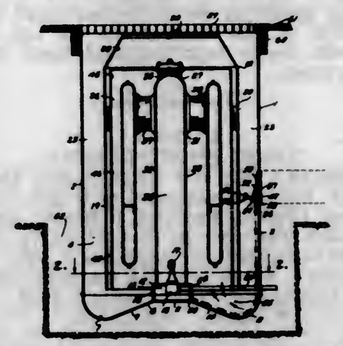
2,592,862

NONFLOODING UNDERFLOOR AIR-HEATING FURNACE WITH AUXILIARY EXTERIOR AIR INLET

William C. Coleman, Wichita, Kans., assignor to The Coleman Company, Inc., Wichita, Kans., a corporation of Kansas

Application April 18, 1946, Serial No. 663,113
1 Claim. (Cl. 126—116)

An underfloor heater including an outer casing having side walls and a bottom curving inwardly from two oppositely disposed side walls and terminating in upwardly extending ramps joining at the center of the casing in a substantially horizontal elongated floor portion, an elongated burner housing carried above the floor portion substantially parallel with terminals of said ramps and having a slot-like opening extending along the terminal of one of said ramps, a heating unit having a burner contained in the burner housing, an inner casing surrounding the heating unit and having side walls spaced from corresponding side walls of said outer casing to provide a downflow air passageway between said walls of the outer and inner casings and an upflow passageway within the inner casing, said inner casing terminating short of the curved portion of said bottom to provide a connection between said passageways, the wall of the outer casing which faces the slot-like opening of the burner housing having a slot-like opening extending parallel with and facing the slot-like



opening of the burner housing but located above the level of the burner for admitting fresh air into the downflow passageway of the casing, a damper having an upper edge pivoted along the upper edge of the opening in said side wall of the outer casing and adapted to swing inwardly of the downflow passageway for deflecting downflow air in said passageway away from said wall so that the fresh air admitted through the slot-like opening of the casing gravitates downwardly in contact with said wall within space provided by the deflection of said downflow air and for guided movement across said curved portion of the bottom and up said ramp to supply fresh air to the burner through said slot-like opening of the burner housing and to add fresh air for mixture with upflowing air incidental to the direction of flow imparted by said ramp to the fresh air, and means for holding said damper in an adjusted position over said slot-like opening of the outer casing wall.

2,592,863

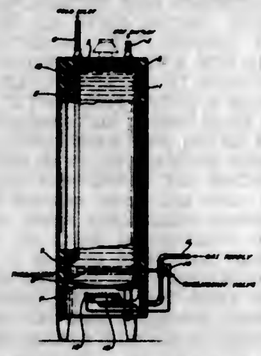
WATER HEATER

Jack S. Conner, Los Angeles, Calif.

Application September 6, 1949, Serial No. 114,135
1 Claim. (Cl. 122—13)

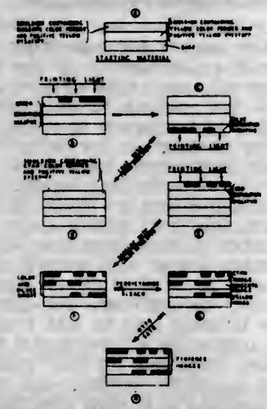
A cold water inlet for a storage type hot water heater comprising an elongated upright tank, a cold water inlet dip tube entering the top of said tank and sealed thereto and extending downwardly directly exposed to the water of the tank to open adjacent the bottom of said tank, said dip tube adjacent the top of said tank being cut along generally co-planar horizontal lines, with the sides of said dip tube being bent inwardly toward each other just above said cuts, thereby forming a constriction and two openings whereby hot water from the top of said

tank is drawn into said dip tube by the Bernoulli effect to raise the temperature of water entering said tank through said dip tube, said constriction



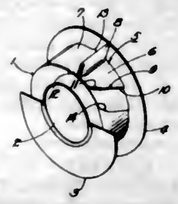
and said openings being proportioned to mix about 10% of the water from the top of said tank with water entering said tank through said dip tube.

2,592,864
COLOR PHOTOGRAPHY
Jack Howard Coote and Keith Milton Hornsby, London, England, assignors to Dufay-Chromex Limited, London, England, a British company
Application December 16, 1947, Serial No. 792,094
In Great Britain December 9, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 9, 1966
8 Claims. (Cl. 95—2)



1. A process for the production of a multi-coloured photographic image using at least three colour separation negatives which comprises printing the outer emulsion layer of a photographic material comprising a base material carrying two photographic emulsion layers, sensitive to the same part of the spectrum and on the same side of the base, each of said layers containing a silver halide and a colour former which is substantially non-diffusing under the process conditions dispersed in a photographic emulsion colloid, from a colour separation negative, coating the printed emulsion with a composition containing a silver halide and a colour former of said non-diffusing type but adapted to produce a different colour image dispersed in the same colloid as that present in said emulsion layers, printing the resulting emulsion layer from a second separation negative, also printing, in the layer adjoining the base material through the base material using light of substantially the same spectral quality as that used for printing the outer emulsion layer from a third colour separation negative, the colour formers present in the layers being so chosen that upon development with a developer capable of forming dyes coloured images of correct hue are obtained, simultaneously developing the successively produced latent images with a developer capable of forming dyes from said colour formers and removing developed silver from the images.

2,592,865
TAPE CUTTER
Norris W. Corey, Manchester, N. H.
Application September 2, 1949, Serial No. 113,797
1 Claim. (Cl. 164—84.5)

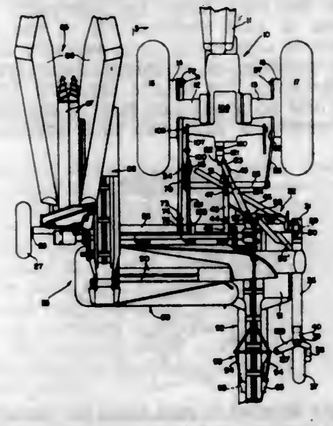


A tape cutter adapted for use with a flanged tape spool comprising in combination a curved body portion conforming generally to the outer contour of a roll of tape, a handle portion, means for frictionally engaging the flanges of said spool at any preselected operative position of said cutter relative to said spool thereby maintaining said body portion against said outer tape contour, and a cutting edge at one end of said body portion, said cutting edge being formed as a continuous end edge of said body portion extending in a direction generally obliquely entirely across said tape and having a leading edge portion at one end disposed in continuation of the curved body portion and in contact with said tape roll and at the opposite end a substantially upwardly raised trailing edge portion separated from said tape roll, said edge extending from said leading edge and sinuously upwardly away from said tape roll toward said trailing edge and whereby when tape on the roll is lifted and severed against said cutting edge, a corner of said tape which is left adjacent said upward trailing edge tends to remain in an upward position and separated from the portion of the roll under it.

2,592,866
IMPLEMENT DRAFT CONNECTION
Wilbur J. Coultas, Moline, Ill., and Russell L. Dort, Davenport, Iowa, assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application November 9, 1946, Serial No. 708,962
11 Claims. (Cl. 56—18)

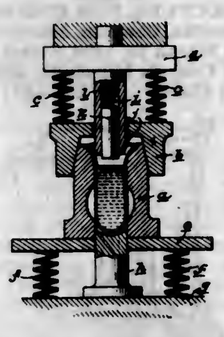
1. An agricultural implement frame structure, comprising a transversely disposed main frame, a supporting wheel journaled at one end of said frame, a rigid truck frame extending generally fore and aft at the other end of said main frame, a caster wheel mounted at the rear of said truck frame for supporting the latter, means supporting said other end of said main frame on said truck frame providing for rocking movement of the main frame relative to the truck frame about an axis transverse to the truck frame and lengthwise as respects the main frame, detachable means for mounting the forward end of the truck frame on a tractor or the like for supporting said truck frame and transmitting draft

force thereto, and a draft link having means pivotally connecting the same between said main frame and such tractor or the like at points



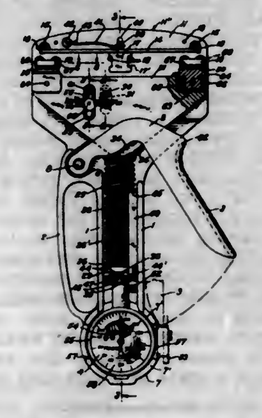
spaced laterally from said truck frame connection and providing for vertical swinging movement of said link.

2,592,867
DEVICE FOR COLD SHAPING HOLLOW ARTICLES
Pierre Cuq, Firminy, France
Application February 26, 1946, Serial No. 650,282
In France October 4, 1944
1 Claim. (Cl. 113—44)



A device for the shaping of an expanded hollow article from a tubular blank, closed at one end and filled with a liquid, comprising a mold having a shaping cavity, and having opposed bores communicating with said cavity, said mold being openable to permit removal of the shaped article, and said blank being initially received in said bores and passing through said cavity; a closure plug fixable in the open end of the blank to seal the liquid therein and wedge the end of the blank in its associated bore, said plug having an inwardly facing recess; yieldable pressure control means in said recess contacting the liquid and adapted to fluctuate with volumetric changes within the blank during the shaping process; a shaping piston in the other bore and adapted to operate against the closed end of the blank and forming with the cavity at the end of its inward travel a completed mold shaped to the external form of the expanded article; and means for forcibly moving said shaping piston in the bore toward the cavity.

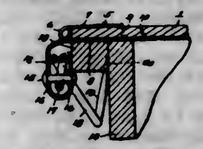
2,592,868
CABLE TENSION INDICATOR
Clifford E. Cushman, Burbank, Calif., assignor to Sturgess, Inc., Glendale, Calif., a corporation of California
Application July 16, 1946, Serial No. 683,823
20 Claims. (Cl. 73—144)



1. A cable tension indicator comprising a frame of substantially Y form with the lower leg of hollow construction of a size forming a column for grasping in one hand, a coiled spring housed longitudinally within said column, a bracket slidably guided against the upper portion of said frame subjected to the force of said spring for sliding the bracket upward, hand lever means adapted to be operated by the hand holding said column for moving said bracket against the action of said coiled spring, a pair of cable supporting blocks spacedly carried by said bracket adjacent the outer upper corners of the frame, an intermediate cable supporting block carried by the frame between the spaced blocks, whereby a tensioned cable may be gripped between the spaced blocks at one side of the cable and the intermediate block at the opposite side, and means for indicating the tension in a cable when so gripped.

19. A cable tension indicating instrument comprising a pair of relatively movable members arranged for clamping between them the opposite sides of a bight of tensioned cable at longitudinally spaced points, means for deflecting the cable bight between said spaced points, a movement indicator indicating the deflection of the cable in terms of the tension existing in the cable, and cooperating relatively movable gauging elements carried respectively by said movable members arranged to indicate the movement of said members in clamping the cable in terms of the diameter of the cable so clamped.

2,592,869
EGG CRATE LID
Eber Jack Dedman, Shreveport, La.
Application June 29, 1950, Serial No. 171,026
1 Claim. (Cl. 217—56)



An egg crate lid comprising a generally flat body; end shoes permanently mounted upon op-

posite ends of said body, each shoe being formed from a one-piece metal stamping folded longitudinally and centrally to define a shoe of U-shaped cross section adapted to be fitted over opposite end edges of said body; attaching cleats formed integrally upon said shoe and spaced from side to side of said body, said cleats being driven into the upper and bottom surfaces of said body; a pivot bracket formed integrally upon the medial portion of said shoe and overhanging one end of a crate on which said lid is mounted, said pivot bracket being of U-shaped cross section; a pin extending between opposite walls of said bracket; and means adapted to releasably engage opposite ends of said crate, said means comprising a one-piece spring formed of stout wire material and mounted upon each pin, each spring including a center spring loop loosely fitted over the associated pin for rocking of the spring upon said pin, each spring additionally including spring arms extending in opposite directions from said loop and being inclined downwardly towards opposite sides of said crate, there being formed on the free ends of said spring arms upwardly extended fingers having flattened wedge ends proportioned to engage between the end wall and cross brace of a crate to which said lid is applied.

2,592,870

PRODUCTION OF COMPOSITIONS CONTAINING FINELY DIVIDED METALLIC SILVER

Haydn Geoffrey Dickenson, Appleton, Warrington, Kenneth Thomas Chapman, Pinner, and Peter Paul Hopf, London, England, assignors to Ward, Blenkinsop & Company Limited, London, England, a British company

No Drawing. Application September 30, 1947, Serial No. 777,116. In Great Britain September 6, 1946

Section 1, Public Law 690, August 8, 1946
Patent expires September 6, 1966
11 Claims. (Cl. 252—313)

1. A process for the production of a stable composition containing finely-divided metallic silver having a major proportion of the particles of substantially colloidal dimensions and substantially free from inorganic non-volatile matter which comprises treating silver oxide with a precipitated protein hydrolysis product, substantially free from non-volatile inorganic matter and having a molecular weight of at least three hundred, in the presence of an organic base stronger than ammonia which is volatilisable below 300° C. and is free from halogens and thiol groups.

7. A new composition of matter consisting of finely divided metallic silver having a major proportion of the particles of substantially colloidal dimensions, a reducing protein hydrolysate and an organic basic reducing agent which is volatilisable below 300° C. and free from halogens and thiol groups, said finely divided silver being free from other metallic derivatives.

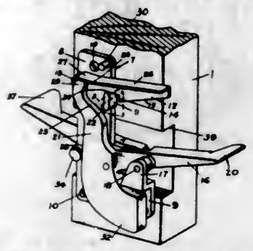
2,592,871

GATE LATCH

Chester E. Dole, Vallejo, Calif.

Application April 17, 1948, Serial No. 21,581
7 Claims. (Cl. 292—255)

1. In a gate latch having a rigid catch adapted to be stationarily secured to a horizontally swinging gate adjacent the jamb therefor in a position projecting toward said jamb, a keeper for said catch adapted to be secured to said jamb opposite said catch comprising: a stop adapted to be stationarily secured to said jam, a movable retainer including a retaining element spaced from said stop and adapted to engage said catch when said gate is in closed position for holding said catch between said stop and said element, said movable retainer being adapted to be swingingly mounted on said jamb for generally vertical movement of said element out of the path of movement of said catch upon swinging said gate to open position in direction away from said stop, gate actuating means separate from said retainer and adjacent said stop at the same side of said catch as said stop and adapted to be



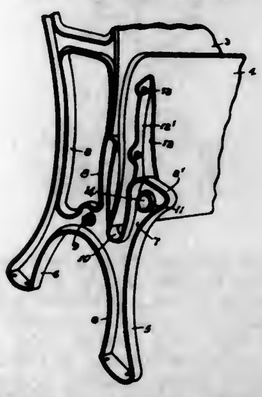
swingingly secured to said jamb for simultaneous generally vertical and lateral movement into engagement successively with said retainer and said catch for respectively moving said retainer generally vertical to a position with said element out of the path of said catch and for swinging said gate toward open position past said retaining element, downwardly depressible means connected with said gate actuating means for causing said generally vertical and lateral movement of the latter upon depression of said depressible means.

2,592,872

SEAT STRUCTURE FOR SCHOOL DESKS

Philip F. Douglas, Carman, Manitoba, Canada

Application March 20, 1950, Serial No. 150,587
In Canada March 24, 1949
1 Claim. (Cl. 155—87)



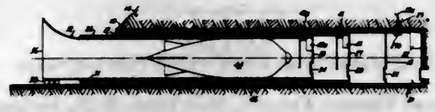
In a school desk, interconnected, similar, skeleton side frames provided with opposed, forward, upstanding arms in the plane of and spaced forwardly from the bodies of the frames and having the upper ends of the arms terminating in horizontal, outstanding flanges and the bodies thereof provided with relatively large diameter, aligned bearing sleeves underlying the flanges, a pair of similar brackets positioned to the inner sides of the arms and provided with integrally formed pivot pins rotatably received within the sleeves and with outstanding flanges engageable with the arm flanges and a seat secured to the flanges of the brackets.

2,592,873

APPARATUS FOR LANDING ROCKETS AND ROCKET SHIPS

Dallas B. Driskill, San Francisco, Calif.

Application January 16, 1950, Serial No. 138,857
10 Claims. (Cl. 244—110)



8. Landing apparatus for rocket craft comprising a landing tube adapted to receive a rocket craft, said tube having a substantially cylindrical form and a closed inner end, a plurality of cylindrical members each having a closed inner end coaxially aligned in telescoping fashion with said tube and each other, means for movably interfitting said members, and means for utilizing the air pressure developed within said members by the movement of a rocket craft within said tube and said members to rapidly decelerate the rocket craft.

2,592,874

LUBRICATING NOZZLE

William J. Du Pont, Toledo, Ohio

Application May 3, 1947, Serial No. 745,699
2 Claims. (Cl. 222—566)



1. In a nozzle adapted to be removably secured to the discharge spout of an oiling device, comprising a tubular body portion having an internal bore extending from one end to the other to provide a discharge orifice, one end of said bore being enlarged for being received on said discharge spout, said body portion being tapered inwardly for a portion of its length and terminating at its end in an annular disc-like flange, the outer surface of said flange being substantially flat to provide a wiping face, and the inner surface being formed conical to merge with said tapered body portion to provide a relatively sharp peripheral oil cup lid engaging edge portion, and said discharge orifice being disposed centrally of the flat outer face of said disc-like flange.

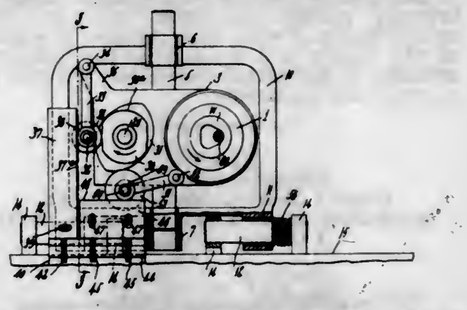
2,592,875

METHOD AND MACHINE FOR SHAPING LOBED FORMS

Philip C. Duriand, Springfield, Vt., assignor to Bryant Chucking Grinder Company, Springfield, Vt., a corporation of Vermont

Application February 18, 1949, Serial No. 77,183
14 Claims. (Cl. 51—93)

12. In a machine of the class described, a rotary work spindle mounted for motion transverse to its axis, a work holder carried by said spindle, a tool in operative relation to work carried by said holder, means for moving said work spindle in said transverse direction, means for rotating said spindle, and means controlling such spindle motion in a cycle comprising intermittent rotary motions about the axis of said spindle and bodily motions thereof in curved and straight paths respectively, the curved and straight paths being such as to cause the line of engagement between said tool and work spindle to describe circular arcs each of a fractional part of a circle and said



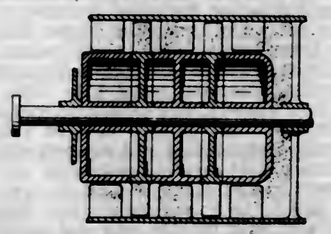
straight paths being such as to join the ends of adjacent arcs with straight line motions all forming a closed figure symmetrical about said spindle axis.

2,592,876

ROTOR AND STATOR FOR FLUID HANDLING MACHINES HAVING SURFACES COATED WITH GOLD

Clarence E. Earle and Francis P. Somers, Washington, D. C.

Application July 22, 1946, Serial No. 685,294
3 Claims. (Cl. 103—122)



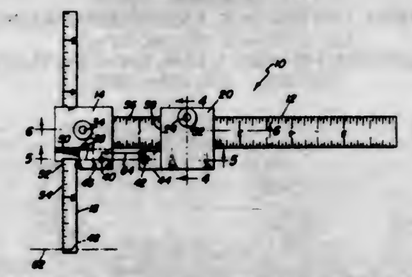
1. A multistage axial compressor comprising a stator and a rotor having cooperating blades, a plurality of said blades being coated with gold for operation in contact with a fluid medium.

2,592,877

DRILLING GAUGE

Marlees O. Ellington, Lake City, Ark.

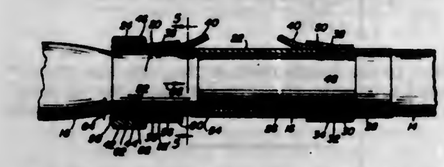
Application January 20, 1950, Serial No. 139,633
1 Claim. (Cl. 33—189)



A drilling gauge comprising a graduated beam, a substantially polygonal fixed head on one end of said beam, said head having a recess in a corner portion thereof and further having a locating aperture therein communicating with the recess, a ruler mounted for transverse sliding adjustment on the head, means for securing said ruler

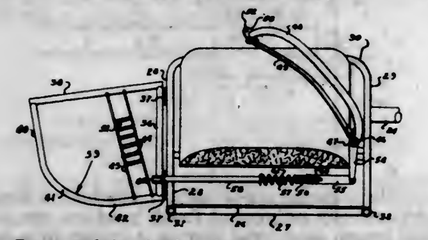
in adjusted position on the head, a block mounted for longitudinal sliding adjustment on the beam, means for securing the block in adjusted position on the beam, a member on the block engageable in the recess in the head, said member having an aperture therein registerable with the first-named aperture when said member is engaged in the recess, and a locating pin removably mounted in the second-named aperture and depending from the member.

2,592,878
FISHING REEL SEAT
Ralph J. Esposito, New Orleans, La.
Application March 1, 1948, Serial No. 12,311
1 Claim. (Cl. 43—22)



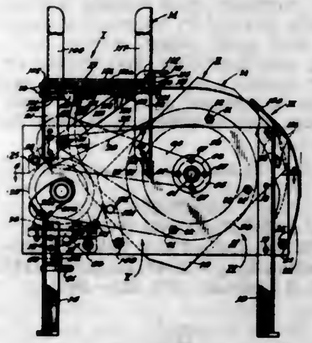
In a reel mounting, the combination of an elongated seat forming member having an externally screw-threaded portion provided with a longitudinal keyway, a reel engaging ferrule slidable on said member, said ferrule being provided with an internal longitudinal groove in register with said keyway and with an internal annular recess at one end of said groove, an actuating nut rotatable on the screw threaded portion of said member and rotatably connected to the end portion of said ferrule provided with said recess, said nut being provided with an internal longitudinally extending channel registrable with said groove and said keyway, and combined means for positively locking said ferrule against rotation and releasably locking said nut against rotation on said member, said means comprising an elongated resilient key slidable in said keyway and having an arched intermediate portion disposed in the groove of said ferrule, one end portion of said key constituting a depressible detent terminating in an outturned finger piece, and a second finger piece provided at the remaining end of the key, said detent being disposed in the channel of said nut to lock the latter against rotation but being depressible into said keyway and receivable in said recess upon sliding of said key to an unlocked position for facilitating rotation of said nut.

2,592,879
SAFETY DEVICE FOR AMUSEMENT RIDES
Lee U. Eyerly, Salem, Oreg.
Application February 4, 1949, Serial No. 74,537
6 Claims. (Cl. 155—189)



1. In a safety device for cars used in amusement rides, the combination of a frame, a seat supported by said frame, a door hinged to said frame at one end of said seat, an arm hinged to said frame over said seat opposite said door, means for actuating said arm from said door, a plurality of latching bars in the plane of said arm and secured to said door holding said arm downwardly when said door is closed and a latch for said arm operable from the exterior of the car.

2,592,880
MACHINE FOR ERECTING COLLAPSED CARTONS
Joseph Vincent Ferraro, New York, N. Y., assignor to Empire Box Corporation, Garfield, N. J., a corporation of Delaware
Application September 17, 1947, Serial No. 774,491
24 Claims. (Cl. 93—37)



1. In a machine for setting up cellular cartons, a feeder for collapsed cartons, a movable structure adapted to receive collapsed cartons from said feeder, wall separating means carried by said structure, partition engaging means carried by said structure, and cam means for operating both said means.

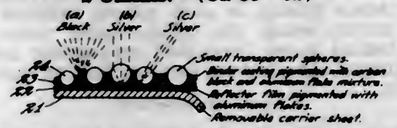
2,592,881
DUSTPROOF WATCH CROWN
Robert Feurer, Jackson Heights, N. Y., assignor to Feurer Bros., Inc., New York, N. Y., a corporation of New York
Application May 5, 1950, Serial No. 160,227
1 Claim. (Cl. 58—90)



A dustproof watch case crown construction comprising, in combination, a tubeless case having a stem opening in the side of the same, a crown having a tubular screw post of less diameter than said opening and extending freely therethrough and out of contact with the case, said crown having a relatively deep, annular cavity therein about the post and an elongated cylindrical packing sleeve of compressible elastic material in close fitting engagement about the post and extending continuously from the case into said annular cavity in the crown and forming the only connection between the case and crown, said sleeve bearing at its inner end against the shell of the watch case about said stem opening therein and closing and sealing the space between the case and the screw post extending therethrough, the outer end portion of the sleeve extending into the annular cavity in the crown

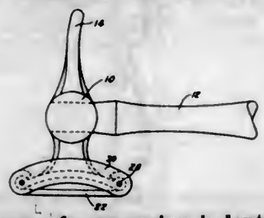
being free of the surrounding enclosing outer wall of the cavity and the outer end of the sleeve being in abutting engagement with the back wall of the cavity and said back wall of the cavity being inclined from one side to the opposite side wall of the cavity and forming an annular inclined bevel surface extending over and in sealing engagement with the outer end of the sleeve.

2,592,882
REFLEX LIGHT REFLECTOR
Kenneth W. Fisher and Harry Heltzer, St. Paul, Minn., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
Application December 4, 1946, Serial No. 714,116
2 Claims. (Cl. 88—82)



1. A reflex light reflector sheet having a single layer of small transparent spheres, whose refractive index is approximately 1.9, partially embedded in a binder coating essentially consisting of a transparent body material admixed with a finely divided black pigment and an aluminum flake pigment, the proportion of the black pigment being about 2–5% and the ratio of the aluminum pigment to the black pigment being in the range of about 2:1 to 4:1, by weight.

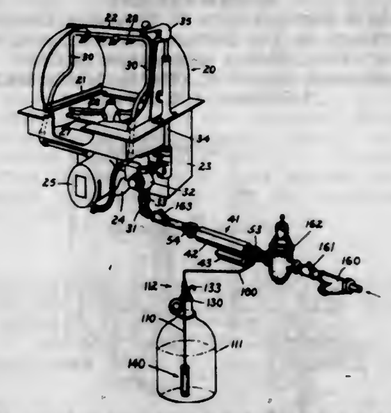
2,592,883
IMPACT TOOL WITH RESILIENT STRIKING SURFACE
Charles J. Fisher, Wescosville, Pa.
Application February 14, 1949, Serial No. 76,235
5 Claims. (Cl. 81—15)



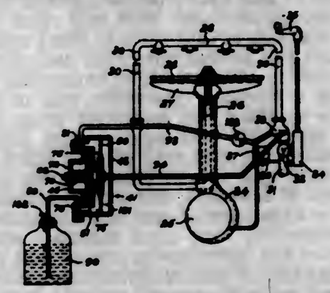
5. A hammer for removing indentations from metal which comprises a handle and a hammer body having a hammer head at one end of the body, said hammer head including an arcuately shaped recess in the hammer face and rounded portions at opposite ends of said recess, a resilient striking member including a multiplicity of parallel elements movably mounted on said rounded portions extending across the recess forming a hollow space between the elements and the recessed face, pins extending through the rounded portions, and plates mounted on said pins positioned parallel to the sides of the striking member.

2,592,884
DISHWASHER
Gerald B. Fox and John M. Sherman, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application February 21, 1947, Serial No. 730,066
5 Claims. (Cl. 299—64)

1. In combination in a washing machine having rinse outlet means, a rinse supply line connected to the rinse outlet means and a separate supply source of disinfectant, a disinfectant injector comprising a Venturi tube connected in said rinse supply line to provide a suction action therein, a valve chamber connected to said rinse supply line and in communication with the throat of said tube, a capillary tube connecting said supply of disinfectant to said chamber and proportioned to conduct a predetermined amount of fluid at a measured rate of flow from said supply of disinfectant into said Venturi tube in response to flow of rinse fluid through said Venturi tube, and a valve positioned in said chamber and adapted to open upon opening of said supply line to connect said capillary tube with said Venturi tube and to close upon closing of said supply line.



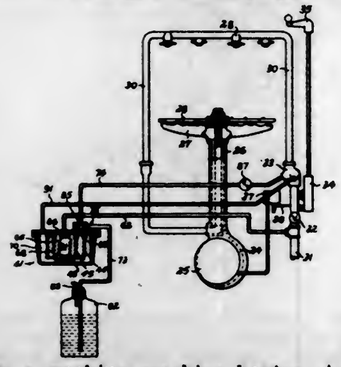
2,592,885
METHOD OF AND APPARATUS FOR WASHING DISHES
Gerald B. Fox and John M. Sherman, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application May 29, 1946, Serial No. 672,961
11 Claims. (Cl. 134—36)



11. A method of reducing the bacteria count upon articles in a washing machine through application of disinfectant which comprises the steps of applying to said articles a flow of fresh rinse fluid under pressure from a supply line of said fluid having a control station for starting and stopping said flow, connecting a supply of disinfectant in fluid form with said supply line at a location between said control station and the point of application of said flow to said articles, utilizing the line pressure of said supply line at a position downstream from said control station to cause injection of a small quantity of said disinfectant into said supply line against the line pressure thereof at said connecting location in response to starting of said flow of rinse fluid

to said articles, and controlling said injection at a metered rate causing said injection to continue during substantially the entire time of said application of said rinse fluid to said articles.

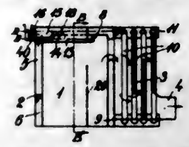
2,592,886
DISINFECTANT INJECTOR FOR DISHWASHERS
Gerald B. Fox and John M. Sherman, Troy, Ohio, assignors to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Application August 22, 1946, Serial No. 692,259
7 Claims. (Cl. 299—85)



1. In a washing machine having rinse outlet means positioned therein, a rinse supply line connected to said rinse outlet means, a valve for controlling the flow of rinse fluid through said rinse line and a supply source of disinfectant, the combination of a disinfectant injector including a first expansible chamber having a pressure responsive wall, means including check valves connecting said first chamber with said supply source and said rinse line, a second expansible chamber having a pressure responsive wall, means connecting said walls of said chambers to effect expansion of said first chamber in response to expansion of said second chamber and to effect contraction of said second chamber in response to contraction of said first chamber, means connecting said second chamber with said rinse line on the upstream side of said valve to effect expansion of said first and second chambers each time said control valve is closed, a third expansible chamber having a pressure responsive wall of greater effective area than the combined areas of said walls of said first and said second chambers, means connecting said wall of said third chamber with said wall of said first chamber to effect contraction of said first and second chambers in response to expansion of said third chamber, and means connecting said third chamber with said rinse line on the downstream side of said valve to effect expansion of said third chamber each time said control valve is opened.

2,592,887
HOT-WATER HEATING SYSTEM
Gunnar Frenger, Roa, V. Aker, Norway
Application February 7, 1947, Serial No. 727,004
In Norway October 20, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires October 20, 1959
5 Claims. (Cl. 237—56)

2. A hot water boiler having a water jacket provided with heating surfaces and an economizer portion provided with heating surfaces, said economizer portion connected to said water jacket in water circulating relation, means providing a space for transitory flow and admixing of water of varied temperatures located at the top of said jacket, and having inlet means for heated water from said jacket, inlet means for heated water from said economizer portion, return water inlet means adjacent the heating surface provided for the top of said jacket, and out-



let means for heated admixed water, said inlet means and outlet means being arranged for flow of water therebetween and within said transitory flow space means in such spaced relation that said return water, the hottest boiler water, and the heated water from said economizer portion are intimately admixed prior to flowing into said outlet.

2,592,888
ROLLING DOOR WITH SLAT THEREFOR HAVING WINDOWS
Ralph H. Greegor, Columbus, Ohio, assignor to The Kinnear Manufacturing Co., Columbus, Ohio, a corporation of Ohio
Application May 28, 1949, Serial No. 96,007
5 Claims. (Cl. 189—78)

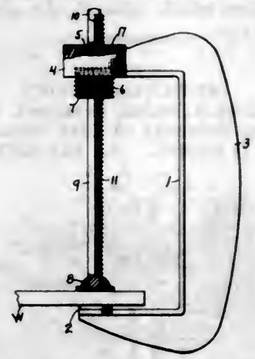


1. In a rolling door construction, a relatively narrow elongated panel, said panel being curved about its longitudinal axis and presenting a convex outer surface and a concave inner surface, a plurality of apertures in said panel, a transparent strip of material curved to fit snugly against said panel and extending over said plurality of apertures therein, a retainer strip for engaging said panel and holding said transparent strip of material in place, said retainer strip extending along said plurality of apertures, and fastening means arranged between the apertures in said panel for securing said retainer strip to the panel and maintaining said transparent strip of material in a fixed position over said apertures.

2,592,889
SCREW AND NUT MECHANISM
David Grimley, Kansas City, Mo.
Application February 20, 1950, Serial No. 145,155
3 Claims. (Cl. 74—424.8)

1. A quick-acting clamp comprising an internally threaded head, an externally threaded

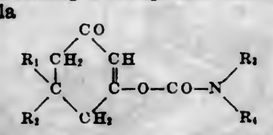
sleeve in threaded engagement with the head and formed with a bore having a section threaded reversely from its external threads, the internal bore through said sleeve, at opposite ends of its threaded section, terminating in an unthreaded arcuate section struck on a radius



slightly greater than the crest of its threaded section and in an unthreaded arcuate section cut away on a radius slightly exceeding that of the root of its thread, respectively, and a clamp screw within the bore of the sleeve having a mutilated thread movable into and out of mesh with the mutilated thread of the sleeve.

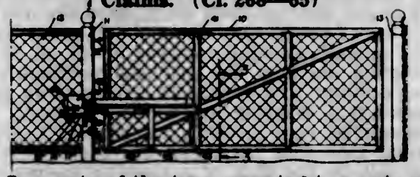
2,592,890
AGENTS FOR COMBATING PESTS AND A METHOD FOR KILLING PESTS
Hans Gysin, Basle, Switzerland, assignor to J. R. Geigy A. G., Basle, Switzerland, a Swiss company
No Drawing. Application November 18, 1949, Serial No. 128,247. In Switzerland November 16, 1948
12 Claims. (Cl. 167—30)

1. The method of killing insects which comprises distributing a compound corresponding to the formula



wherein R_1 and R_2 each represents a member selected from the group consisting of hydrogen and methyl and R_3 and R_4 each represents a lower aliphatic hydrocarbon radical to effect contact of said compound with the insects.

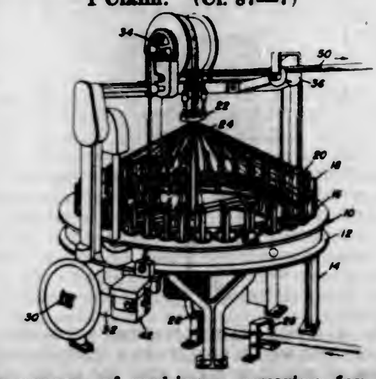
2,592,891
ELECTRICALLY ACTUATED CLOSURE OPERATOR
Harvey H. Hall, Denver, Colo.
Application November 25, 1949, Serial No. 129,380
7 Claims. (Cl. 268—65)



1. In a gate of the type mounted to a gate post for swinging movement about a vertical axis adjacent an end of the gate, the combination there-

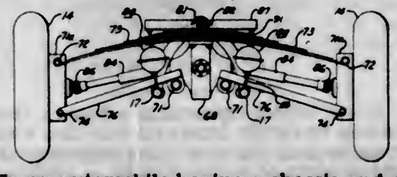
with, of a support secured to and extending laterally of the gate post, a reversible motor disposed on top of said support and pivotally secured thereto for swinging movement about a vertical axis, a drive shaft for said motor rotatable about a horizontal axis, a screw directly connected axially to said drive shaft forming an extension thereof, a tube threadedly engaging said screw, a pivot pin secured to said tube extending radially thereof, a housing tube surrounding said screw and tube, means anchoring the housing tube to the motor to hold it from longitudinal movement when the screw is rotating and the tube is moving along the screw, the housing tube having a slot extending lengthwise thereof, the pivot pin passing through said slot; a bracket means fixedly secured to the gate extending laterally thereof, said bracket having a bearing near its outer end for receiving the pivot pin.

2,592,892
PROCESS FOR FORMING MARKINGS IN TUBULAR BRAIDED COVERS FOR VACUUM CLEANER TUBES
Emanuel Handel, Woodhaven, N. Y.
Application August 25, 1949, Serial No. 112,368
1 Claim. (Cl. 87—7)



The process of making a covering for a tube comprising the steps of holding the tube and moving the same axially of a braiding machine, applying strands around the tube to form a braided concentric covering thereon, applying strands of a different hue around the tube and beneath the first mentioned strands, and intermittently applying the second mentioned strands over the first mentioned strands at preselected variable intervals to form a marking integral with and simultaneously with the formation of the covering.

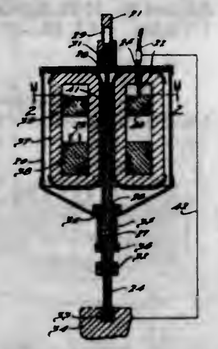
2,592,893
SUSPENSION MEANS FOR DRIVE AXLES
Harvey Gordon Hansen, San Lorenzo, Calif.
Application December 26, 1947, Serial No. 793,774
3 Claims. (Cl. 180—73)



1. In an automobile having a chassis and drive means thereon, opposite drive wheels, a transverse spring structure connecting said drive

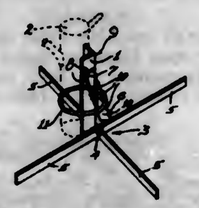
wheels and having a pivotal connection to the chassis about a longitudinal axis, a link connection from each of said drive wheels to the chassis extending generally parallel to the adjacent portion of the spring structure, respective drive connections extending between the drive means and each drive wheel, and means for varying the effective tension of said spring structure to control relative pivotal movement between the chassis and the spring structure about said longitudinal axis, said tension varying means including a pair of opposed pneumatic cylinders at opposite sides of said pivotal connection and each connected between the chassis and the spring structure.

2,592,894
DISINTEGRATING OR REMOVING METALLIC MATERIAL
Henry V. Harding, Royal Oak, Mich., assignor, by mesne assignments, to Elox Corporation of Michigan, Clawson, Mich., a corporation of Michigan
Application May 10, 1949, Serial No. 92,485
13 Claims. (Cl. 219—15)



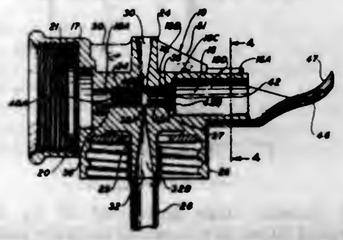
1. In a metal disintegrating apparatus; the improvement which comprises a transformer, one winding of which is fixed and the other winding of which is movable relative to the first winding; and an electrode secured to the movable winding for movement therewith and wherein one of said windings is adapted to be energized by an alternating current.

2,592,895
TREE HOLDER
Clark E. Harris, Spokane, Wash.
Application February 25, 1950, Serial No. 146,243
2 Claims. (Cl. 248—44)



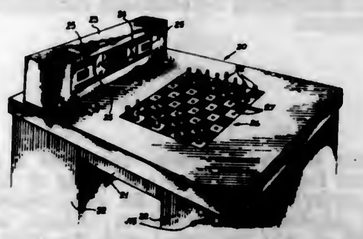
1. A tree holder comprising a base, a standard extending upwardly from said base and V-shaped in cross section for straddling engagement with a side portion of a tree trunk, a vertical strip extending downwardly at an angle away from said standard and secured at its upper end to the standard and constituting a wedge disposed at the opposite side thereof from its tree-trunk engaging surface, said strip being formed with recesses spaced from each other longitudinally thereof, and a ring of a diameter adapting it to fit about a tree trunk and said standard and engage in a selected one of the recesses to releasably hold the ring in a selected recess and bind the tree trunk against the standard.

2,592,896
EDUCTOR DEVICE
Stanley A. Hayes, Pasadena, Calif.
Application February 10, 1949, Serial No. 75,561
11 Claims. (Cl. 103—262)



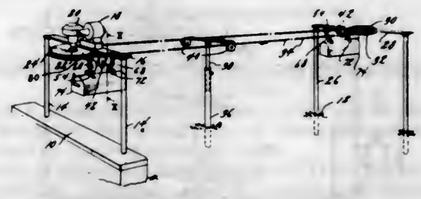
1. An eductor for sucking a first liquid into a carrier stream of another liquid comprising a body member, a stepped passageway through the body member between an inlet and an outlet, a pair of openings in the wall of the body member opening into said passageway at circumferentially spaced points, and a pair of bushings disposed in said passageway, one on either side of said openings, each of the bushings having a stepped passageway therethrough of decreasing diameter from inlet to outlet.

2,592,897
GAME RECORDER
Lauri Heinoo, Arvida, Quebec, Canada
Application May 11, 1949, Serial No. 92,673
8 Claims. (Cl. 346—33)



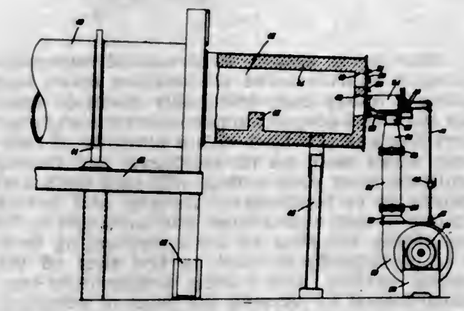
1. In a device of the character described, a game board having a divided playing area thereon and an aperture therethrough in each division, game pieces movable according to the rules of the game and having base formations characteristic of their identity adapted to project downward through said apertures, a printing mechanism which, when actuated, selectively prints for each division simultaneously one of a number of marks and means displaceable by the base formations of the pieces to set up an appropriate mark in the printing mechanism for each division, and to actuate said printing mechanism, said printing mechanism normally held inoperative, said printing mechanism actuating means including members under each division operable by the base of a piece to momentarily release the mechanism for printing purposes whereby the positions of all pieces are recorded by the printing mechanism after each movement of a piece.

2,592,898
MAIL CARRIER
Wilbur Helberg, McClure, Ohio
Application February 10, 1950, Serial No. 143,484
5 Claims. (Cl. 104—178)



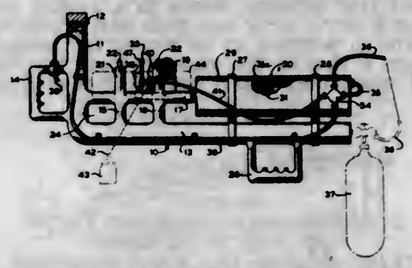
1. In an article transfer device of the class described, a pair of spaced pulleys mounted for rotation about substantially parallel vertical axes, an endless cable about said pulleys, means for driving one of said pulleys, a block attached to said cable, an article carrier mounted by said block, said block having a contact face directed toward and engaging the pulleys as the cable length mounting said block passes around said pulleys, and a groove in the rim of at least one of said pulleys of a cross-sectional contour to nest with the contact face of said block to maintain said block in a predetermined fixed horizontal position as long as said block engages said pulley.

2,592,899
BURNER EQUIPMENT FOR ROTARY DRIERS FOR AGGREGATES
Robert C. Hopkins, Alliance, Ohio
Application June 11, 1949, Serial No. 98,502
9 Claims. (Cl. 263—19)



1. Burner equipment for rotary driers for selectively producing relatively high temperature or relatively low temperature, comprising a horizontal, elongated combustion chamber communicating at one end with the rotary drier and having a burner opening in its opposite end, a middle burner and two outer burners positioned to discharge through said burner opening into the combustion chamber, said outer burners being located at the horizontal center of the combustion chamber and the middle burner being located below said horizontal center line, a Y-branch connection supporting the burners, a blower communicating with the Y-branch connection, fuel pipes connected to the burners, means for independently controlling the admission of air from the blower to the middle burner and the outer burners, and means for independently controlling the admission of fuel to the middle burner and the outer burners.

2,592,900
POWER-OPERATED TREE HACK AND AUTOMATIC LIQUID SPRAYER
Otto B. Hough, Tallahassee, Fla.
Application March 27, 1946, Serial No. 657,432
11 Claims. (Cl. 47—12)



1. A power operated tree hack comprising a rigid frame having an abutment member at one end thereof and a power cylinder at the opposite end; a guide sleeve supported on said frame between said cylinder and said abutment member in axial alignment with said cylinder; adjustable positioning means extending from said guide sleeve between said abutment member and said cylinder on the side of said sleeve opposite said frame; a piston reciprocable in said cylinder; a piston rod connected to said piston and slidable in said guide sleeve; a cutter head carried by said piston rod for movement in the space between said abutment member and said cylinder; said positioning means comprising two spaced apart pairs of tubular members with the members of each pair spaced to permit passage of the cutter head between them, and a pointed pin member telescopically received in each tubular member for lengthwise adjustment relative thereto; an actuating valve operatively connected with said cylinder; source of fluid pressure connected with said valve; a valve operating lever; a spray nozzle on said piston rod behind said cutter head; means connecting said nozzle with an acid receptacle and with said valve; and a shield of acid resistant material carried by said frame in position to shield the mechanism of the tree hack and the operator thereof from spray from said nozzle.

2,592,901
ETHYLIDENE BIS-(ALLYL ADIPATE) AND OTHER ACYLALS
Charles D. Hurd, Evanston, Ill., assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application November 26, 1946, Serial No. 712,238
1 Claim. (Cl. 260—485)

A method of preparing an ethylidene acylal which comprises mixing acetylene with an acid ester of a dicarboxylic acid and an unsaturated monohydric alcohol having from 2 to 9 carbon atoms, while said acid ester is in contact with catalytic amounts of mercuric oxide and boron trifluoride, continuing the reaction for a period of from 15 to 30 hours, and recovering the resulting ethylidene acylal.

2,592,902
DRIER
Mowatt M. Hurst, San Francisco, Calif.
Application October 7, 1947, Serial No. 778,295
5 Claims. (Cl. 34—236)

1. A drier comprising conveyor means for supporting a bed of material thereon for movement

along a path of travel in one direction, means for moving said conveyor means in said direction, means for moving heated air into contact with the material on said conveyor means during said movement for drying said material, a material receiver extending across said path and against said conveyor means in a loading position at a point along said path over which said material is adapted to be moved for receiving thereon a load of the material from said conveyor means during said movement of said con-



veyor, a pivoted support for said receiver adapted to be reciprocated longitudinally of said path for swinging said load upwardly and generally in the direction of said conveyor means and for scattering said material on said conveyor at a point adjacent said receiver but on the side thereof in said direction of travel of said conveyor means and for returning said receiver to said loading position, rotating means spaced from said support and operatively connected thereto for so reciprocating said support.

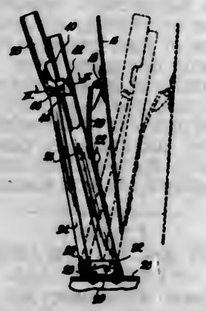
2,592,903

CLAMP STRUCTURE FOR GARMENT FINISHING MACHINES OR THE LIKE

Nolan C. Jackson, Wichita, Kans.

Application August 2, 1948, Serial No. 41,994

4 Claims. (Cl. 24—248)



1. In a garment finisher, clamp structure including a bracket; a bar and a link pivotally secured to the bracket for swinging movement on spaced axes; a grip swingably mounted on said bar for movement to and from a position rigidly joining said bar and said link whereby to hold the bar and the link against swinging movement relative to the bracket; a spring on the bar; and an article-engaging plate swingably secured to said spring.

2,592,904

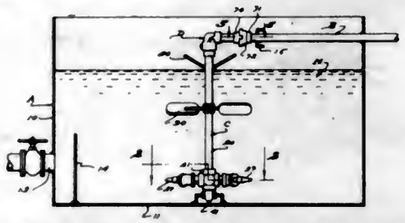
HYDRAULIC AGITATOR

Donald M. Jackson, Fullerton, Calif., assignor to Chiksan Company, Brea, Calif., a corporation of California

Application April 10, 1950, Serial No. 155,063

6 Claims. (Cl. 259—96)

1. In combination, a container, a fluid supply line extending to the upper portion of the container, means fixing the supply line to the container at the upper end thereof, a rotor in the container, and coupling means rotatably coupling the rotor and line so fluid from the line is delivered to the rotor, the rotor including, a tubular flow conducting stem with its upper end rotatably held by the coupling means and a head on the lower end of the stem with an angularly disposed nozzle discharging fluid into the con-



tainer so reactionary forces cause operation of the rotor, the coupling means including a fluid handling swivel connection in the upper end portion of the container and carrying the stem and a releasable fluid handling union joining the swivel connection to the supply line.

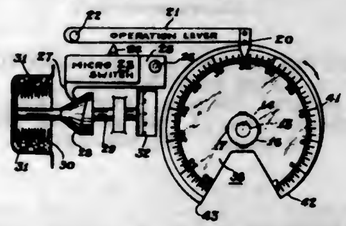
2,592,905

APPARATUS FOR SETTING THERMOSTATIC CONTROLS

Simon Joe Jacobs, Philadelphia, Pa.

Application April 26, 1951, Serial No. 223,119

3 Claims. (Cl. 73—1)



1. For use in setting heat-control apparatus having a shaft rotated at constant speed and having a rotary cam detachably mounted upon said shaft and adapted to be rotated thereby once every day and provided with a plurality of relatively small teeth on its periphery, and having a follower lever cooperating with said teeth and adapted to be reciprocated thereby, and having a micro-switch constructed and arranged to be periodically actuated by the reciprocating lever so as periodically to start up and shut off the heating system, and having temperature-controlled means for varying the point of actuation of the micro-switch by the lever thereby to vary the ratio of heating time to non-heating time, and having one or more manual adjusting means for correcting the aforesaid ratio of heating time to non-heating time; a generally disc-like tool having a peripheral camming surface extending through a substantial portion of the circumference of the tool, the radius of the tool at one end of the camming surface corresponding to the radius of the rotary cam at the low point of its teeth and the radius of the tool at the other end of the camming surface corresponding to the radius of the rotary cam at the high point of its teeth, the contour of the camming surface corresponding generally to the contour of one of the rotary cam teeth but being greatly circumferentially expanded relative thereto, said tool having circumferentially-distributed calibrations formed thereon, said tool being constructed and arranged manually to be rotated upon the shaft just sufficiently to cause its camming surface to

raise the follower lever enough to actuate the micro-switch and shut off the heating system, the calibration reading of the tool at the point of shut-off indicating the changes required to be made in the manual adjusting means to correct any discrepancies in shut-off time.

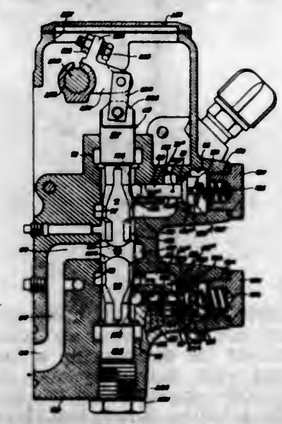
2,592,906

SPEED CONTROL VALVE FOR HYDRAULIC MECHANISM

Emil F. Jirsa, Merlin Hansen, and Cecil W. Bopp, Waterloo, Iowa, assignors to Deere Manufacturing Co., a corporation of Iowa

Original application November 5, 1945, Serial No. 626,626. Divided and this application June 25, 1948, Serial No. 35,214

5 Claims. (Cl. 277—43)



1. In fluid pressure mechanism, a dual valve comprising a first poppet type valve having a recess extending through the valve head into the stem thereof, a second poppet valve seated in said recess and having a stem fitting closely but slidably within the recessed stem of said first valve, said second valve stem being relieved axially along one side to provide for the flow of fluid under the head thereof and along the stem, said recessed stem of said first valve having a plurality of peripherally spaced, radially extending apertures of relatively different sizes communicating with the recess in said stem, said second valve being adjustable angularly about its axis to position the axially relieved portion in register with any of said apertures, selectively, and means for retaining said second valve in angularly adjusted position during operation.

2,592,907

COOKING LIQUOR TREATMENT

James M. Kahn, Glencoe, Ill., assignor to Infilco Incorporated, Chicago, Ill., a corporation of Delaware

Application March 8, 1949, Serial No. 80,290

5 Claims. (Cl. 252—183)

1. The improvement in the process of preparing a cooking liquor for manufacturing alkaline pulp which comprises subjecting the white liquor formed in the causticizing stage of the process to partial sedimentation, separating partially thickened mud resulting from said partial sedimentation from turbid white liquor, washing the partially thickened mud, subjecting the washed mud to a second partial sedimentation, then centrifuging the partially thickened mud resulting from said second partial sedimentation, returning the centrifuged mud to the kiln of the causticizing stage of the process, using the filtrate from the centrifuging step as wash water in said mud washing step, passing liquid separated from mud in said second partial sedimentation step to a stage of the process preceding the causticizing stage for further treatment therein, adding an inorganic magnesium salt to the turbid white liquor separated from the mud in said first partial sedimentation step to coagulate impurities therein, and separating the coagulated impurities from the clear white liquor which is reused as cooking liquor.

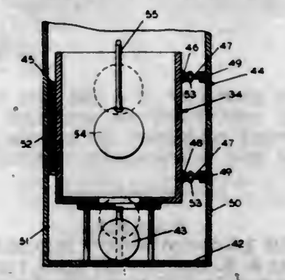
2,592,908

QUICK-OPERATING FLOAT VALVE

Harry Katz, St. Paul, Minn.

Application July 8, 1946, Serial No. 681,875

2 Claims. (Cl. 137—104)



2. A quick acting float valve apparatus comprising a main tank, an auxiliary tank within said main tank, an inlet adjacent the top of said auxiliary tank through which water may flow from the main tank, an opening in the bottom of said auxiliary tank forming an outlet therefor through which water may flow into the main tank, a series of spaced downwardly extending projections on the bottom of said auxiliary tank spaced about said opening, said downward projections comprising legs supporting said auxiliary tank on the bottom of said main tank, a float ball below the opening in said auxiliary tank and confined by said spaced projections, said float ball being of larger diameter than the opening in said auxiliary tank and acting to close said opening in raised position of said float ball, a fluid inlet to said main tank, a valve controlling the flow of fluid through said fluid inlet, and a float in said auxiliary tank connected to said valve to actuate the same.

2,592,909

CONTAINER FEED MECHANISM

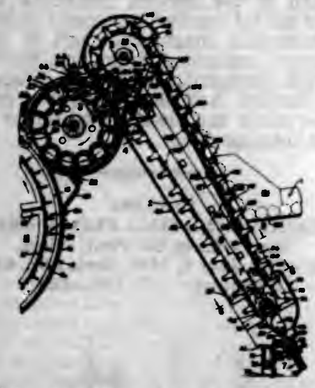
Thomas B. Keesling, Campbell, Calif., assignor to Food Machinery and Chemical Corporation, a corporation of Delaware

Application February 25, 1946, Serial No. 650,017

11 Claims. (Cl. 198—28)

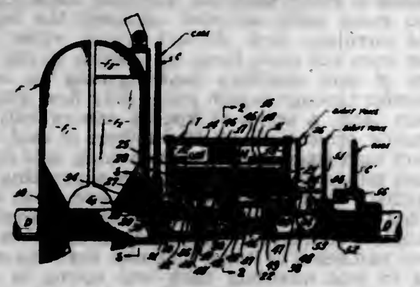
1. An elevator mechanism for feeding cans to a rotary valve having an inlet permitting the entrance of the cans along a path which is substantially vertically tangent to the path the cans will travel while in said valve, comprising an endless chain conveyor having a sprocket rotatably mounted for movably supporting the endless chain thereof with its descending reach extending tangentially across said inlet and midway the sides thereof, a trackway associated with said chain conveyor for supporting cans transversely of said chain, means for deflecting cans out of said trackway and into said inlet, said chain hav-

ing arms extending into said trackway and for passage between said deflecting means at spaced intervals to provide can receiving pockets, said arms having pusher rollers supported thereon transversely of said trackway for rollingly en-



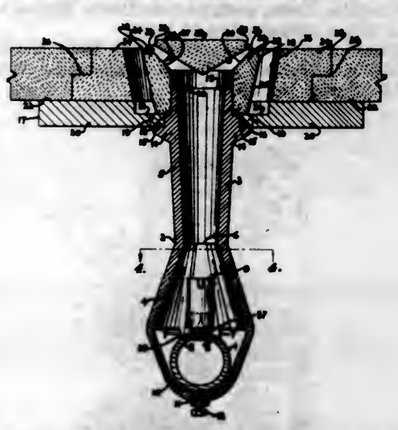
gaging the periphery of a can and to roll said can along said trackway and said deflecting means toward said inlet for gravitation thereinto along said substantially vertically tangent path.

2,592,910
POWER TRANSMISSION MECHANISM
Rex E. Keller, Beverly Hills, Calif.
Application June 7, 1948, Serial No. 31,533
21 Claims. (Cl. 74—688)



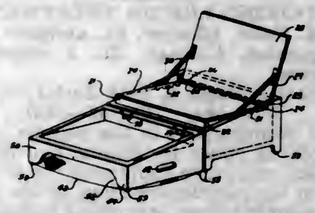
1. A power transmission mechanism comprising: a first case fixed against rotation, a fluid coupling unit in said case including inner and outer concentric runners and an impeller, a drive shaft rotatable in and extended from said case and drivingly connected with said impeller, said case and said runners having externally toothed clutching members extended concentrically therefrom around said drive shaft and disposed in different transverse planes, a second stationary case, a driven shaft coaxial with said drive shaft and axially shiftable in said second case relative to the drive shaft, a planetary gear unit between said cases and bodily shiftable axially on said shafts, said gear unit including a housing, a sun gear, an orbit gear fixed to said housing, planet gears connecting said sun and orbit gears, a planet gear carrier, a first annular member free wheelingly connected with the sun gear, and a second annular member free wheelingly connected with said carrier, said sun gear, said carrier, said annular members and the end walls of said housing having sets of internal teeth axially spaced apart and said driven shaft having axially spaced sets of external teeth arranged to selectively interlock with certain internal sets of teeth on said members of the planetary unit when said unit is bodily shifted at times and when the driven shaft is shifted at times to drivingly connect the driven shaft with said runners through the planetary unit and selectively to directly connect the driving and driven shafts.

2,592,911
GAS BURNER AND SECTIONAL HEARTH
Peter Ketelsen, Wichita, Kans.
Application July 14, 1947, Serial No. 760,901
6 Claims. (Cl. 158—99)



1. A burner including an upwardly directed tubular body member having an axial outlet in the end thereof for discharging a fuel mixture and provided with outwardly and downwardly stepped shoulders spaced below the outlet of the tubular body, a hollow burner head having a substantially circumferential fuel outlet and having a portion encircling the outlet and seated upon the smaller shoulder with said outlet end above said smaller shoulder extending into the burner head and in communication with said tubular body, a spider encircling and seated on the larger shoulder, and a platform section carried on the spider and having an opening of sufficient diameter to receive the burner head therein and provide an annular secondary air passageway encircling said head separate from and located below said circumferential fuel outlet.

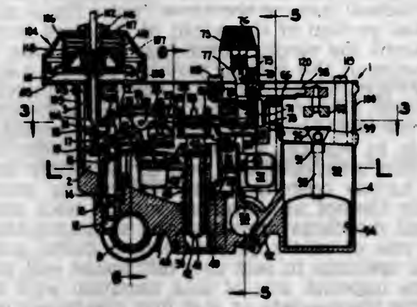
2,592,912
COMBINATION FOOTSTOOL, LADDER, SEAT, AND STORAGE CHEST
Edward J. Knipper, Bakersfield, Calif.
Application August 5, 1949, Serial No. 108,692
3 Claims. (Cl. 228—2)



1. A combination footstool, ladder, seat and storage chest comprising: a box-shaped base section; a storage chest formed within said box-shaped base section and having a cover secured thereon; an open top upper box-shaped section hingedly attached to said base section; a cushion

secured within said upper box-shaped section supported on a bottom plate therein; said cushion and said upper box-shaped section, when folded on top of said box-shaped base section adapted to form a footstool; said hingedly attached upper box-shaped section adapted to fold over 180 degrees; said upper box-shaped section when folded over 180 degrees positioning said bottom plate below the chest cover to form an initial step and said cover of said box-shaped base section adapted to form both a further step of a ladder structure and a seat.

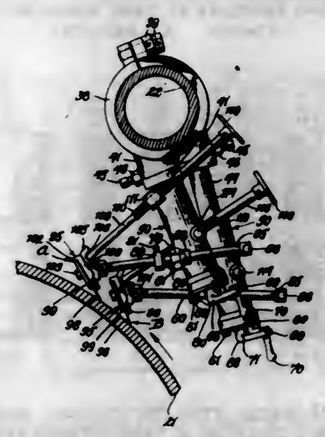
2,592,913
LIQUID LEVEL CONTROL MEANS
Walter S. Landon, deceased, late of Detroit, Mich., by Marion E. Landon, administratrix, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application May 15, 1947, Serial No. 748,301
15 Claims. (Cl. 137—68)



1. A safety control valve, comprising a casing having a liquid chamber with an inlet and an outlet conduit, a valve member controlling said inlet, movable means cooperable with said valve member and responsive to liquid level in said chamber and acting at a predetermined normal liquid level to close said valve member, means forming an auxiliary chamber having communication above said predetermined level with said liquid chamber, conduit means communicatively connecting said outlet conduit with said auxiliary chamber and having a portion of its length positioned above the normal liquid level in said outlet conduit, and safety means operable on said valve member to close said valve member and including means actuated by inflow of liquid into said auxiliary chamber both from said outlet conduit through said conduit means and also directly from said liquid chamber.

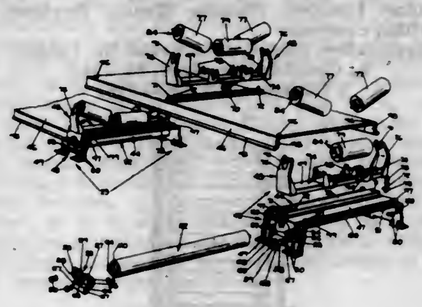
2,592,914
APPARATUS FOR REMOVING THE PRODUCT FILM FROM A REVOLVING DRUM SURFACE
Charles O. Lavett, Buffalo, N. Y., assignor to Blaw-Knox Company, Pittsburgh, Pa.
Application October 6, 1947, Serial No. 778,076
3 Claims. (Cl. 159—11)

1. Apparatus for removing the product film from the surface of a revolving drum, comprising a plurality of knife blades arranged along the periphery of said drum and with their cutting edges in engagement therewith, and means forming the sole support for at least one of said knife blades, comprising a rod mounted adjacent the periphery of said drum and parallel with an adjacent tangent thereof, a sleeve slidably mounted on said rod for non-rotative movement lengthwise thereof, means for adjustably positioning said sleeve lengthwise of said rod, an arm pivoted exclusively on said sleeve and projecting toward said drum, a supporting head connected centrally to said one of said knife blades and mounted on the end of said arm adjacent said drum and in



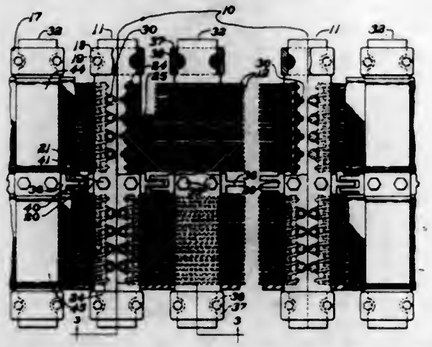
position to engage the periphery thereof, and a member movably mounted on said sleeve and urging said one of said knife blades into engagement with the periphery of said drum.

2,592,915
CHAIR AND IDLER ROLL STAND ASSEMBLY FOR CONVEYERS
Arthur L. Lee, Upper Arlington, Ohio, assignor, by mesne assignments, to The Jeffrey Manufacturing Company, a corporation of Ohio
Application March 8, 1945, Serial No. 581,630
7 Claims. (Cl. 198—192)



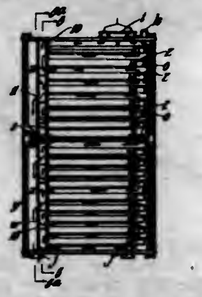
1. In belt conveyor apparatus, an idler stand including a cross-piece and idler supporting brackets, supporting means for said idler stand including a substantially horizontal member having a guide co-operating with the cross-piece of said idler stand, and means removably connecting said idler stand to said supporting member, said cross-piece being of inverted channel structure which receives said co-operating guide and said guide including an inverted channel member rigidly attached to said supporting means, said removable connecting means including bolts extending through both said inverted channels and having square heads in the inverted channel member attached to said supporting means which square heads cooperate with the side walls of said last named inverted channel member to prevent rotation of said bolts.

2,592,916
SELF-LAYING TRACK FOR VEHICLES
Charles W. Leguillon, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application February 26, 1949, Serial No. 78,643
7 Claims. (Cl. 305—10)



1. A self-laying track for vehicles, said track comprising a plurality of cable strands extending side-by-side with their axes in a single transverse plane of the track and terminating in loops at the ends of the track, anchoring pins at the ends of the track and extending with their axes in said plane across the track for engaging a plurality of said loops, said loops being in planes obliquely disposed to said plane of the track and presenting said loops in alignment with said anchoring pins, and means for connecting a pair of anchoring pins to each other.

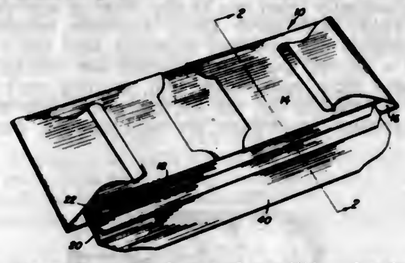
2,592,917
PLANSIFTER
Joseph Flawith Lockwood and John Stephen Ball, Cheadle Heath, England, assignors to Henry Simon Limited, Cheadle Heath, England, a British company
Application April 8, 1947, Serial No. 740,023
In Great Britain April 26, 1946
6 Claims. (Cl. 209—316)



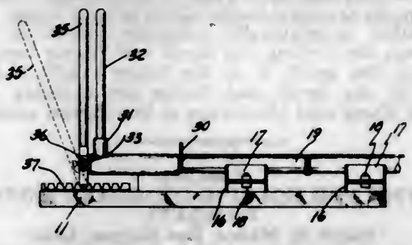
1. A plansifter of the type receiving gyratory motion in a horizontal plane for effecting discharge of stock including a casing structure and at least one group of superposed horizontally arranged sieve frames, said frames being supported in spaced parallelism with respect to each other and said casing structure including side walls confining the sieve frames and of a length greater than the sieve frames, a vertical end wall extending transversely of and between the side walls adjacent one end of the superposed sieve frames, a second vertical end wall in parallelism with said first mentioned wall and positioned outwardly thereof, a partition wall positioned between and extending transversely of the first two mentioned end walls and said three walls together with the side walls exteriorly of the sieve frame defining two adjacent vertical ducts, an additional wall extending parallel to said first two mentioned end walls in spaced relation thereto and outwardly of the second mentioned end wall and between the side walls and cooperating with the same to define a third vertically disposed duct, each sieve frame including a perforated sieving cover having a total length less than the length of the sieve frame, the area of the sieve frame outwardly of the sieving cover providing an opening having a vertical axis, an imperforate bottom plate incorporated with the sieve frame in spaced relation to the sieving cover and substantially coextensive in length therewith and constituting a surface to receive material passing through the sieving cover, the end of said sieve frame opposite to the end embodying the vertical opening having an opening therein the axis of which is transverse with respect to the axis of the first mentioned opening and which second opening extends transversely with respect to the longitudinal axis of the sieve frame for a substantial portion of the width of the sieve frame subjacent the sieving cover and constituting an extension of the bottom plate to provide a discharge opening for stock that has passed through the cover, all of said sieve frames being disposed with the said discharge opening of the respective frames in vertical alignment and adjacent the said first mentioned end wall of the casing, said wall having openings therein extending transversely thereof in alignment with at least some of said discharge openings, and communicating with one of said adjacent vertical ducts, additional openings in said first mentioned end wall on the opposite side of said partition wall extending transversely of said first mentioned end wall and in alignment with the space between the sieving cover of some of the frames and the bottom plate of immediately superjacent frames whereby stock that passes over the frames passes through the said last mentioned openings into the duct adjacent thereto which constitutes a tails receiving duct and stock that passes through the covers discharges through the discharge openings in the frames and thence into the other of said adjacent vertical ducts constituting a throughs receiving duct, openings in said third mentioned end wall in communication with the respective adjacent throughs and tails receiving ducts, and removable means for selectively covering the vertical openings of at least some of the sieve frames to prevent direct vertical passage of stock through all of the sieve frames and for diverting the stock for passage selectively either over or through the sieve cover of the frame, the gap of which is closed.

2,592,918
BILLFOLD INSERT
Joseph C. Loncich, Medford, Mass., assignor to The Wilson Manufacturing Company, Inc., Boston, Mass., a corporation of Massachusetts
Application January 19, 1948, Serial No. 2,979
3 Claims. (Cl. 150—38)

1. A bill retainer insert for billfolds and the like comprising a plurality of elongated flexible partitions including a forward partition, a rear partition and a partition between the forward and rear partitions and immediately adjacent the forward partition, said partitions having lower edges, flexible hinge straps loosely connecting the lower edges of said partitions to each other, an anchor strap on the forward partition for anchoring the forward partition to a billfold, and a finger gripping extension carried by said rear partition for extending said partitions in sequential and consecutive relationship, each of said partitions including a transverse fold line intermediate its ends, said forward partition having a central opening and the partition immediately adjacent said forward partition also having a central opening in registry with the opening in the forward partition.



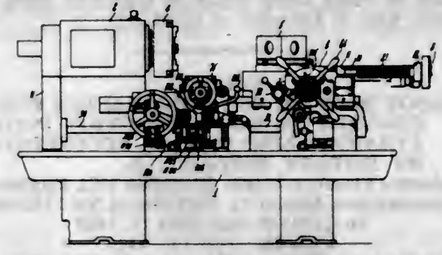
2,592,919
DOCKBOARD
Martin Loomis, Clare, and Wayne M. Sanderson, Midland, Mich., assignors to Loomis Machine Company, Clare, Mich., a corporation of Michigan
Application May 31, 1949, Serial No. 96,342
6 Claims. (Cl. 14—71)



1. The combination with a loading dock having a pit therein, a dockboard for bridging the space between said dock and a flow of different height and comprising, a support, a horizontally disposed shaft rockably mounted thereon, a ramp structure on said dock and having its one edge rigidly secured to said shaft, said structure including vertically spaced plates, the outer edges of which are secured together in intimate facial contact to form a thin outer lip, arms on the side of the shaft opposite said ramp, a counterweight spaced from and secured to said arms, means for manually rocking said shaft, and means for shifting said shaft endwise in said supports.

2,592,920
LATHE
John E. Lovely and Ralph M. Gamble, Springfield, Vt., assignors to Jones & Lamson Machine Company, Springfield, Vt., a corporation of Vermont
Application August 14, 1945, Serial No. 610,722
17 Claims. (Cl. 29—46)

13. In a lathe, a headstock, a tool carrier movable to advance toward and retire from said headstock, a tool carriage movable transverse of said headstock, means for moving said carrier in fast motion in advance and retire directions, means for moving said carrier in advance in slow feed, means for moving said carriage in opposite directions from a mid-position selectively in fast idle or slow feeding speeds, means for throwing out the carrier fast motion toward said headstock and for throwing in said slow carrier feed, means for throwing in the carriage fast motion, dogs on said carrier for actuating said throwing means at predetermined positions of said carrier when said carrier is advancing, and means blocking actuation of said throwing means when said carrier is retiring.

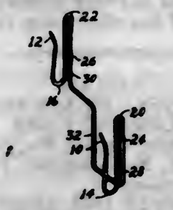


2,592,921
ALKALINE ACCUMULATOR WITH SO-CALLED DOUBLE OR TWIN CELLS
Carl Hilding Ossian Lübeck, Stockholm, Sweden
Application June 20, 1950, Serial No. 169,137
In Sweden June 27, 1949
4 Claims. (Cl. 136—7)



1. In an alkaline twin-cell accumulator battery comprising two separated metallic cell vessels electrically connected and made of plates welded together along their border edges, means for mechanically and electrically connecting the cell vessels in a position in which opposite side walls are held in contact with one another, comprising metal strips arranged longitudinally of adjacent border edges of the contacting side walls, so as to cover said border edges, and welded to the vessels on both sides free of the border edges, said metal strips being provided with outwardly projecting longitudinal flanges arranged to form joints between adjacent strips and welded together, so as to allow the cell vessels to be separated by grinding off the welding joint, without inflicting any damage to the border edges of the cell vessels proper.

2,592,922
CORSAGE PIN
James H. Lucier, Northbridge, Mass.
Application April 14, 1948, Serial No. 21,052
2 Claims. (Cl. 24—6)



1. Corsage pin comprising a pair of double reversed loops connected together in spaced paral-

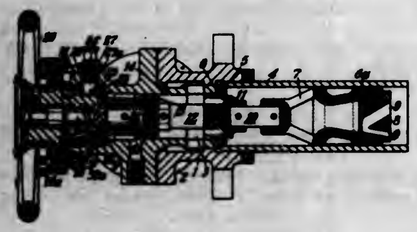
lel relation, one loop of each pair being a spring loop to grip a support and the other loop of each pair being open and terminating in an upwardly pointing sharp prong to hold the corsage, the pairs of loops being offset so that one prong is above and in advance of the other.

2,592,923

SOOT BLOWER WITH MECHANISM FOR CONVERTING ROTARY MOTION INTO STRAIGHT LINE MOTION SUCCEEDED BY ROTARY MOTION

Charles Fletcher Lumb, Kingston Hill, England

Application August 31, 1949, Serial No. 113,346
In Great Britain July 11, 1949
1 Claim. (Cl. 15—317)



A soot blower comprising a housing, an inlet for supplying cleaning fluid to the housing, a rotatably mounted blower tube, a normally closed valve for controlling flow of cleaning fluid from the housing to the blower tube, means for opening the valve and rotating the blower tube consisting of an internally screwed nut rotatably mounted in the housing and having a recess in its outer periphery, a screw threaded member in engagement with the thread in the nut and in axial alignment with and fixed to the valve, a sleeve member rotatably mounted in the casing and surrounding the nut, means carried by said sleeve member and engaging means carried by the screw threaded member for preventing relative rotation of said member while permitting relative axial movement thereof, a ball coupling member in a bore extending through said sleeve member transverse to the axis thereof, the ball being normally in engagement with the said outer periphery of said nut and projecting into an opening in the casing to hold said sleeve member against rotation and being inwardly displaceable in said bore into said recess in the nut when aligned therewith so that it will engage in said bore and said recess in the nut and become clear of said opening in the casing to permit rotation of the sleeve and prevent relative rotation of the nut and sleeve, whereby rotation of the nut first causes axial movement of the screw threaded member to open the valve to permit fluid to flow from the housing into the blower tube, and further rotation of the nut in the same direction causes rotation of the sleeve and the blower tube.

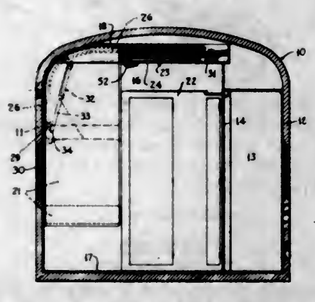
2,592,924

BERTH OPERATING MEANS FOR RAILWAY SLEEPING CARS

John C. Lyon, Upper Darby, Pa., assignor to The Budd Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 23, 1947, Serial No. 762,920
18 Claims. (Cl. 105—316)

1. In a railway car, a room defined in part by two spaced parallel walls and a third wall interconnecting said spaced parallel walls, all said walls extending between the floor and the ceiling of the room, a fixed-length berth extending substantially from one to the other of said parallel walls, said berth being movable between a horizontal use position adjacent said third wall and a stowed position adjacent the ceiling and remote from said third wall, guiding and supporting means for the berth in such movement comprising trackways on said spaced parallel



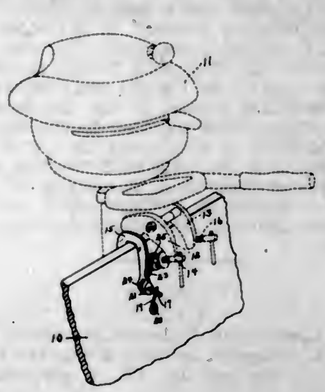
walls and rollers on the berth and on a frame pivoted to the opposite ends of the berth and continuously engaged with the respective trackways, said berth being swingable from its horizontal use position, when it is disposed with its plane at an angle to the plane of said frame, to a position substantially coplanar therewith, and means for locking the berth and frame together when the berth is in the latter position, after which the berth and frame are movable as a unit along said trackways to the stowed position.

2,592,925

DEVICE FOR HOLDING OUTBOARD MOTORS TO BOATS

Ralph H. Mabee, Des Moines, Iowa

Application May 9, 1949, Serial No. 92,106
2 Claims. (Cl. 248—25)



1. In a device of the class described, an inverted U-shaped bracket member having one of its end portions enlarged, a rod member threaded through said enlarged portion of said bracket member and having its inner end portion tapered and pointed; said bracket member having a hole just above its enlarged portion, and a rod member having a ring on one end extending through said hole and rotatably embracing said enlarged portion and a hook portion on its other end.

2,592,926

HALOGEN-CONTAINING RESINS STABILIZED WITH POLYMERIC ORGANO-TIN DIALKOXIDES

Gerry P. Mack, Jackson Heights, and Emery Parker, New York, N. Y., assignors to Advance Solvents & Chemical Corporation, New York, N. Y.

No Drawing. Application October 29, 1948, Serial No. 57,425
18 Claims. (Cl. 260—45.75)

1. A heat and light resistant plastic composition including as a major constituent a halogen-containing resin and as a stabilizer a polymeric organo-tin dialkoxide of the general formula

$$(RO)^1-(Sn-O)_n-R^2$$
$$\quad\quad\quad

annular float mounted around said tube and adapted to float on the liquid in said storage tank, guide means affixed to the float and engaging a corner of the tube to center the float around the tube and to prevent rotation of the float with respect to the tube, a permanent magnet disposed in the float, the magnet serving to determine the location of the contacting element in the tube so that the contacting element moves in a direction and for a distance corresponding to the movement of the float.

2,592,926

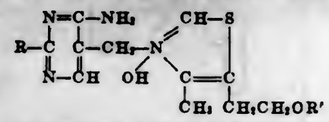
METHOD FOR PREPARING VITAMIN B_1 AND ITS ALLIED COMPOUND

Taizo Matsukawa, Suitashi, Osaka, and Takeo Iwatsu, Higashisumiyoshi-ku, Osaka, Japan, assignors to Takeda Yakuhin Kogyo Kabushiki-gaisha, Higashi-ku, Osaka-shi, Japan

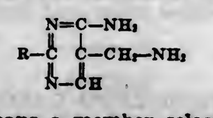
No Drawing. Application August 29, 1950, Serial No. 182,141. In Japan March 17, 1950

10 Claims. (Cl. 260—256.6)

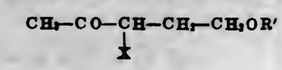
1. A process for preparing the acid addition product of a compound of general formula



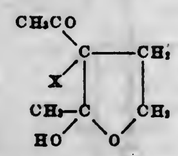
wherein R represents a member selected from the the class consisting of methyl and ethyl radicals, and R′ represents a member selected from the class consisting of hydrogen and acyl radical, which comprises reacting a compound of general formula



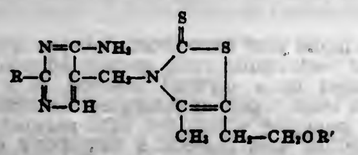
wherein R means a member selected from the group consisting of methyl and ethyl radicals, with one of the compounds of general formulas



and



wherein R′ represents a member selected from the class consisting of hydrogen and acyl radical, X is a member selected from the class consisting of chlorine and bromine, and carbon disulphide in the presence of a basic, acid-neutralizing agent, and cyclizing the product to the corresponding thiothiazolone-derivative of the formula



wherein R and R′ have the precedingly-indicated significances by the addition of a mineral acid, and oxidizing the last-mentioned product with the theoretical amount of an oxidizing agent which acts in an acidic medium.

2,592,931

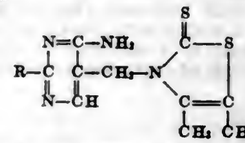
THIOTHIAZOLONE DERIVATIVES

Taizo Matsukawa, Suitashi, Osaka, and Takeo Iwatsu, Higashisumiyoshi-ku, Osaka, Japan, assignors to Takeda Yakuhin Kogyo Kabushiki-gaisha, Higashi-ku, Osaka-shi, Japan

No Drawing. Application August 29, 1950, Serial No. 182,142

5 Claims. (Cl. 260—256.5)

1. Thiothiazolone-derivatives of the general formula



wherein R represents a member selected from the class consisting of lower alkyl and benzyl radicals, R′ represents a member selected from the class consisting of hydrogen, acetyl and benzoyl.

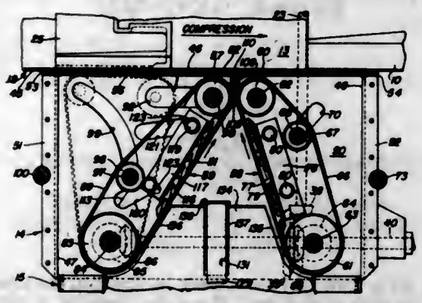
2,592,932

PRELIMINARY COMPACTING FEEDING MECHANISM FOR BALERS

Marcus E. McClellan and Leo G. Cheatum, Ottumwa, Iowa, assignors to Deere Manufacturing Co., Dubuque, Iowa, a corporation of Iowa

Application March 4, 1949, Serial No. 79,672

15 Claims. (Cl. 100—25)



1. In a baler or the like having a bale case provided with a wall in which is formed a relatively long and narrow, generally rectangular feed opening, the improvement residing in feed mechanism for compacting a relatively wide charge of material to a size acceptable by the opening, said mechanism comprising: a first feed-assistance means including an inner or material-contacting portion lying generally along one long edge of the feed opening and extending away therefrom in the direction from which material is fed; a second feed-assistance means including first and second rollers and a belt trained thereabout and arranged so that the belt has an inner or material-contacting run inclined to the aforesaid portion of the first means so that said run and said portion converge toward the feed opening; means carrying the first roller adjacent the feed opening on an axis generally paralleling the long dimension of said opening and providing for shifting of said roller in a path parallel to the feed opening wall and across the short dimension of the opening between a first position close to the material contacting portion of the first feed-assistance means and overlying the opening, and a second position spaced from said portion and uncovering said opening; means carrying the second roller on a fixed axis parallel to and spaced from the first roller axis, whereby the distance between said axes will vary as the first roller changes position, because of the aforesaid guide means; means operative to urge the first roller to its first position but effective to provide for movement of said first roller to accommodate material being fed by the feed mechanism; means carrying part of the belt and tensioned and mounted for movement to accommodate changes in belt length as the first roller changes position; backing means behind the inner run of the belt; and means mounting the backing means for movement in conformity to changes in position of the first roller.

2,592,933

CAN OPENER

Robert E. McLean, Fort Benning, Ga., assignor to John C. Hockery, Kansas City, as trustee

Application November 6, 1946, Serial No. 708,168

11 Claims. (Cl. 30—15)



1. A can opener comprising a plate body, a rotary shaft supported by the body for movement in an arcuate path from a low position to a high position, a cutter supported on one side of the body above the shaft, a can rim engaging feed wheel supported by the shaft on the side of the body adjacent to the cutter, an arcuate toothed rack pivotally supported on the opposite side of the body from said wheel for rocking movement about a center which is directly below the center of said shaft when the shaft is in the said high position, the arc of the rack substantially conforming to and following the curvature of said path, a pinion gear carried on the shaft for operative connection with said rack, the swinging movement of the radius of the rack teeth being true with the radius on which the gear and wheel swing, said rack having the teeth terminating short of the end nearest to the high position for the shaft whereby the pinion is freed from the rack for free rotation upon movement of the shaft and feed wheel to the said high position for the shaft where the feed wheel is in working relation with the cutter.

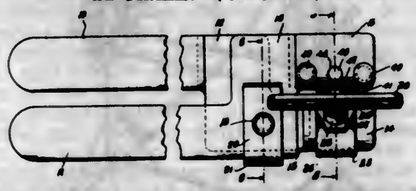
2,592,934

CAN OPENER

Robert E. McLean, Fort Benning, Ga., assignor to John C. Hockery, Kansas City, Mo., trustee

Application February 12, 1947, Serial No. 728,063

21 Claims. (Cl. 30—9)



1. In a can opener of the rotary drive wheel type, a body, a disk cutter rotatably carried thereby, a second body pivoted to the first body, a can rim engaging drive wheel carried by the second body for movement relative to the cutter upon relative oscillation of the bodies, the axes of the can driving wheel and disk cutter being parallel and said axes being disposed at an angular relationship to the axis of the pivot connecting said bodies, means for resiliently wedging the wheel toward a side face of the cutter disk by the action of moving the wheel and cutter into cooperative working relation for maintaining driving engagement between a part of the wheel and the wall of the can below the rim, and means for rotating the wheel.

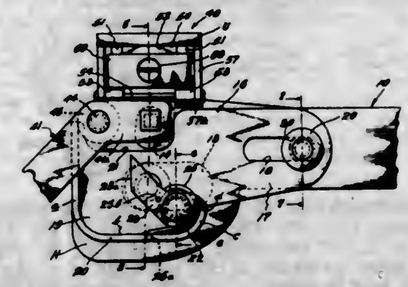
2,592,935

CAN OPENER

Robert E. McLean, Columbus, Ga., assignor to John C. Hockery, Kansas City, Mo., as trustee

Application April 28, 1947, Serial No. 744,393

22 Claims. (Cl. 30—9)



8. A can opener of the rotary drive wheel type, comprising a body plate, a cutter carried thereby, the body plate having a relatively long vertically disposed opening therein, a rock plate disposed upon one side of the body plate, the body plate having a second relatively long opening, the second opening extending horizontally substantially perpendicular to the first opening, a cam flange integral with the body plate and disposed below the rock plate, a pivot pin carried by the rock plate and extending through the second mentioned opening, a cam roller carried by the pivot pin and engaging said flange, a shaft carried by the rock plate and extending through the first mentioned opening and adapted to be moved vertically therein upon oscillation of the rock plate, a can rim engaging driving wheel carried by the shaft, an operating handle secured to the shaft upon the opposite side of the body plate from the rock plate, a relatively long shiftable plate disposed upon the opposite side of the body plate from the rock plate, a sliding coupling between one end of the shiftable plate and the body plate, a link connecting the sliding coupling with said pivot pin, means coupling the handle with the other end of the shiftable plate for imparting reciprocatory movement thereto upon clockwise rotation of the handle, and means forming a part of the sliding coupling whereby the shiftable plate has reciprocatory movement independently of the coupling between the sliding coupling and the pivot upon clockwise rotation of the handle and is secured against such independent reciprocatory movement upon counterclockwise rotation of the handle whereby to effect a desired movement of the pivot pin.

2,592,936

CAN OPENER

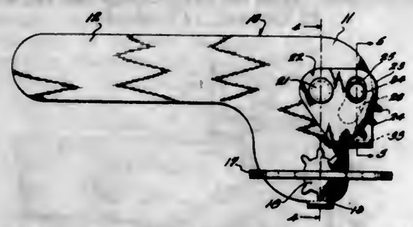
Robert E. McLean, Columbus, Ga., assignor to John C. Hockery, Kansas City, Mo., as trustee

Application June 23, 1947, Serial No. 756,501

3 Claims. (Cl. 30—15)

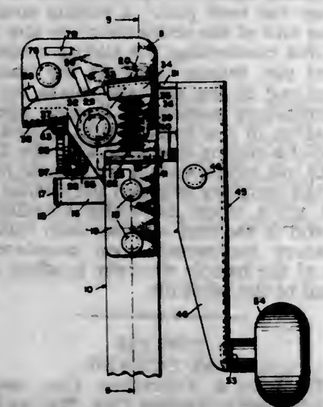
1. In a can opener of the rotary drive wheel type including a body, a shaft passing through

and rotatably supported by the body, means for turning the shaft and a can rim engaging driving wheel carried by the shaft to turn therewith; a pivot support on the body, a member mounted on said pivot support for turning movement, a cutter eccentrically carried by said member to be turned therewith in an arcuate path toward and away from an operative position with respect to the driving wheel, a pin carried by the member and extended perpendicularly therefrom for movement along an arcuate path concentric with the turning center of the member approximately 45°, means for establishing a driving coupling between said pin and the shaft for imparting turning movement to the cutter carrying member upon turning of the shaft in a clockwise or



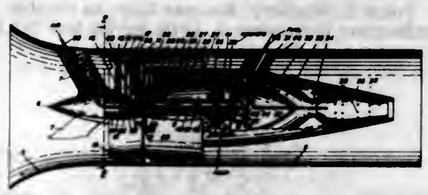
counterclockwise direction, a can rim engaging pressure applying element carried by the member to move therewith and adapted to engage and apply pressure to the top edge of a can rim when said member is turned to move the cutter into cooperative relation with the can rim engaging driving wheel, the said can rim engaging pressure applying means comprising an element designed to engage across the rim of the can, a pivotal connection between the element and the cutter carrying member for oscillation of the element on said member on an axis parallel with the turning axis of the cutter carrying member, and a spring connected between said element and the cutter carrying member and normally resisting oscillation of the element upon movement of the element into contact with a can rim.

2,592,937
CAN OPENER
Robert E. McLean, Columbus, Ga., assignor to John C. Hockery, Kansas City, Mo., as trustee
Application June 25, 1948, Serial No. 35,151
20 Claims. (Cl. 30—9)



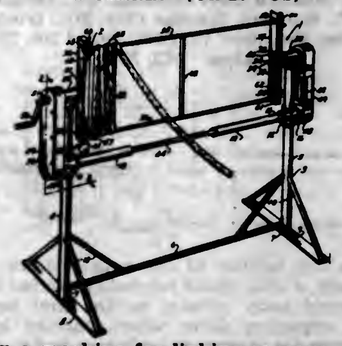
1. A can opener of the character described comprising a fixed cutter, a unit supported adjacent thereto for oscillation in a plane perpendicular to the edge of the cutter, a can rim engaging driving wheel rotatably supported on said unit, said unit when oscillated in one direction moving said wheel into cooperative working relation with the cutter, a crank connected with the wheel for effecting rotation of the wheel, a latching means securing the unit against oscillation when the wheel and cutter are in the said working relation, and means for releasing said latching means by said crank to facilitate oscillation of the unit.

2,592,938
JET ENGINE WITH COMPRESSOR DRIVEN BY ROTATING JETS WHICH EXHAUST INTO THRUST AUGMENTING DUCT
William K. McNaught, Sausalito, Calif.
Application December 11, 1950, Serial No. 200,264
2 Claims. (Cl. 60—35.6)



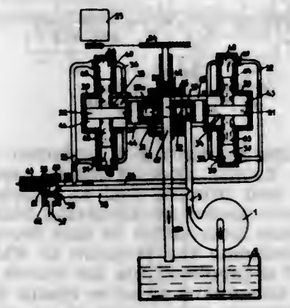
1. A jet engine having an outer tubular shell, an inner tubular shell, the axis of said shells coinciding, said shells being spaced from each other to form an air space therebetween, a rotor mounted in said inner shell and having its axis of rotation coinciding with the axis of said shells, co-acting blades carried by said inner shell and said rotor to form an air compressor, means for rotating said compressor, a spoked activator ring rotatably mounted in said outer shell, the axis of rotation coinciding with the axis of rotation of said rotor, said ring having a plurality of diagonally arranged combustion chambers having reaction nozzles, means for furnishing air and fuel to said combustion chambers having reaction nozzles for ignition whereby the reactive force issuing from said jet chambers will cause rotation of said activator ring and the rotor connected thereto, and a burner chamber carried by said inner shell to create a reactive force when air from said compressor is burned therein with a fuel, the exhaust from said activator jet chambers impinging upon a deflector ring positioned between said inner and outer shells.

2,592,939
SAUSAGE LINKER
Jack M. Miller, Kansas City, Mo.
Application July 24, 1947, Serial No. 763,276
2 Claims. (Cl. 17—34)



1. In a machine for linking sausage, a pair of spaced supports, aligned bearings in the respective supports, a pair of coaxial shafts rotatably mounted and retained in said aligned bearings, said shafts each extending from its repective support toward the other support and terminating in longitudinally spaced relation to the other shaft, parallel arms on adjacent ends of the respective shafts and in spaced relation to the respective supports, said arms extending in diametrically opposed directions from the shafts with unobstructed completely open space between the arms, a pair of rods in spaced parallel relation to the axis of the shafts and spanning the space between the arms on the respective shafts with the end portions of said rods removably mounted on one side of said arms, said rods being on opposite sides of the axis of the shafts, means having driving connection with the respective shafts for simultaneously rotating same to maintain the relative position of the arms and revolve the pair of rods in an orbit about the axis of rotation of said shafts for winding sausage on the rods under tension which flattens the sausage casing on said rods to form links in said sausage, and means for releasing the rods from the arms for bodily removal of the rods with the sausage links thereon laterally from the arms with the weight of one rod applying tension to the sausage supported on the other rod to retain the flattened portions of the sausage casing in flattened condition.

2,592,940
PRESSURE TRANSFORMER
Maurice Monoyer, Brussels, Belgium
Application April 8, 1947, Serial No. 740,189
In Belgium April 16, 1946
5 Claims. (Cl. 103—51)



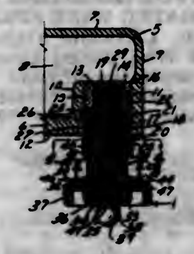
1. In a combination with a centrifugal pump of a pressure transformer comprising a plurality of low pressure cylinders, a high pressure cylinder at each end of each low pressure cylinder, a differential piston moving in each of said cylinders, a rotating distributor located between said cylinders for alternatively supplying fluid from said centrifugal pump to the opposite sections of the low pressure cylinders and to the high pressure cylinders, an external means for driving said rotating distributor, a discharging pipe, an automatic device located on said discharging pipe for controlling the pressure of the exhausted fluid, said automatic device comprising a chamber provided with two valves, one of which moving under the joint action of the pressures of the driving fluid and of the discharged fluid, the other moving under the action of the driving fluid only.

2,592,941
APPARATUS FOR DETERMINING LOCATION OF BUBBLES IN TUBES IN LEVEL INSTRUMENTS
William D. Moore, Kansas City, Mo., assignor to Brunson Instrument Company, Inc., Kansas City, Mo., a corporation of Missouri
Application September 8, 1949, Serial No. 114,043
8 Claims. (Cl. 33—70)



7. A level of the character described comprising, a telescope having cross hairs therein, means for levelling said telescope, an elongated vial mounted on said telescope parallel to the line of sight thereof, liquid in the vial and forming a bubble which is centrally located therein when the vial is level and movable from said location when the vial is tilted, a bridge circuit connected to a source of electric energy, an indicator connected in the bridge circuit for indicating balance between arms of said bridge circuit, said indicator being mounted inside of the telescope adjacent the cross hairs thereof, an arm having a cross hair extending across the line of sight of the telescope and operated by the indicator to position said cross hair in horizontal alignment with the horizontal cross hair of the telescope when the bridge circuit is balanced and move the arm to disalign the cross hairs when the bridge is unbalanced, aligned electrodes having adjacent portions overlapping the opposite ends of the bubble when the vial is in level position, a common electrode spaced from the aligned electrodes and arranged substantially parallel therewith with the liquid forming an impedance therebetween whereby movement of the bubble varies the impedance between the respective aligned electrodes and the common electrode, and means connecting one of the aligned electrodes and the common electrode in one arm of the bridge circuit and the other aligned electrode and said common electrode in an adjacent arm of said circuit, whereby central location of said bubble effects a balanced condition in said bridge circuit.

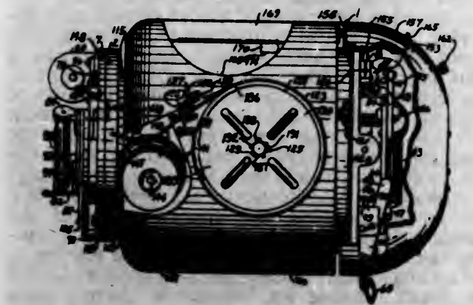
2,592,942
DUSTPROOF LEVELING SCREW
William D. Moore, Kansas City, Mo., assignor to Brunson Instrument Co., Kansas City, Mo., a corporation of Missouri
Application November 24, 1950, Serial No. 197,217
4 Claims. (Cl. 287—62)



1. In a leveling screw construction for surveying instruments and the like, a leveling arm having a substantially vertical bore extending upwardly therein adjacent the outer end thereof, a

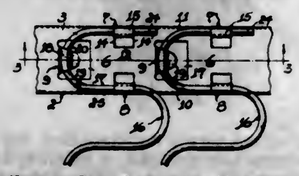
nut having an enlarged portion removably secured in the upper portion of said bore in the arm, said nut having a depending cylindrical coaxial shank of less diameter than the bore, said nut having a coaxial threaded bore, an upper sleeve removably secured in the arm with one end of said sleeve engaging the nut to lock same in said bore, said upper sleeve having a cylindrical bore concentric with the nut shank and forming an annular space therebetween, a base plate below the leveling arm, a screw having a threaded shank engaging the threaded bore of the nut, means on the screw engaging the base plate, and a lower sleeve on the screw and extending into the annular space between the upper sleeve and nut shank, said lower sleeve having concentric cylindrical internal and external surfaces slidably fitting the external surface of the nut shank and the bore of the upper sleeve respectively to form an adjustable dustproof enclosure for the screw.

2,592,943
LASHING MACHINE FOR AERIAL CABLES
Dory J. Neale, Topeka, Kans.
Application February 7, 1949, Serial No. 74,923
12 Claims. (Cl. 175—376)



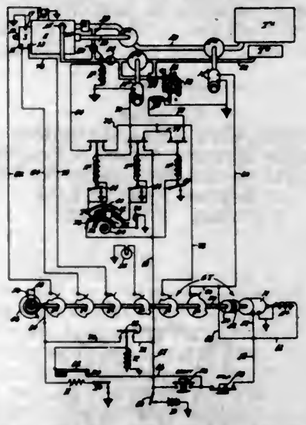
1. A lashing machine for securing aerial cable to a messenger including a trolley having a longitudinal passageway extending therethrough to accommodate the messenger and the aerial cable to be lashed thereto, a spinning head, means supporting the spinning head on the trolley for rotation about the axis of the passageway, and a pair of aerial cable guide rollers at each end of the passageway having axes diverging from a point below and in direct alignment with the trolley wheels forming V-shaped supports adapted for tangential contact with opposite sides of the aerial cable to retain the aerial cable in alignment with the messenger.

2,592,944
RAIL MEMBER FOR MOUNTING SINUOUSLY CORRUGATED WIRE SPRINGS
William H. Neely, Cleveland, Ohio, assignor to The Universal Wire Spring Company, Cleveland, Ohio, a corporation of Ohio
Application October 8, 1949, Serial No. 120,293
4 Claims. (Cl. 155—179)



2. A rail member for mounting sinuously corrugated wire springs comprising a metal strip, having a plurality of openings and a series of groups of hook-shaped portions extended upwardly from said metal strip in associated relation with respect to said openings, each group including three hook-shaped portions arranged to outline the corners of a triangle, two of said hook-shaped portions including open hooks facing each other and the third one of said hook-shaped portions including a tongue extended from one edge of the respective opening in symmetrical relation with respect thereto, said tongue having an end portion bent downwardly to extend into the face of said strip opposite the said respective opening, and said respective opening being substantially larger than said tongue.

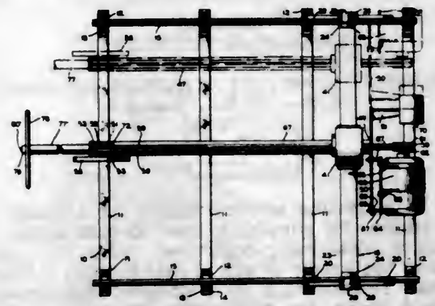
2,592,945
AUTOMATIC STARTING SYSTEM FOR INTERNAL-COMBUSTION ENGINES
Malcolm P. Odell, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 1, 1945, Serial No. 575,683
11 Claims. (Cl. 123—187.5)



7. A starting system for an internal combustion engine having priming means, sources of engine fuel and priming fuel at selected pressures, selective means for supplying fuel to said priming means from either of said sources, and means for reducing the pressure at which said priming fuel is supplied from the source thereof, said system comprising selective means for operating said pressure reducing means, temperature responsive control means, and means connecting said selective means in controlled relation to said temperature responsive means so that said priming means is supplied with said engine fuel during periods when the temperature is within a first selected range, with said priming fuel at reduced pressure during periods when the temperature is within a second selected range, and with said priming fuel at said selected pressure during periods when the temperature is below a selected value.

2,592,946
TUBE CUTTING MACHINE
Robert L. Ohmstede, Beaumont, Tex., assignor to Ohmstede Machine Works, Beaumont, Tex., a partnership
Application October 4, 1950, Serial No. 188,396
12 Claims. (Cl. 51—170)

1. A cutting machine of the class described including in combination, a guide frame, a carriage movable on the frame to and from one side of the work, said carriage having spaced headers, a tiltable transverse member pivotally connected at its ends to said headers, a supporting member slidably connected to said transverse member, an operating member rotatably mounted on said supporting member and extending transversely thereof, a motor connected



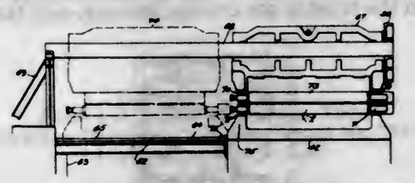
to one end of said operating member, a cutting tool connected to the opposite end of the operating member, and means operatively connecting said motor to said cutting tool, said operating member being operable to move the carriage on the guide frame relative to the work and for tilting said members in a vertical direction to control the position of the tool relative to the work.

2,592,947
TUBING PACKER
John S. Page, Long Beach, Calif., assignor to Page Oil Tools Inc., Long Beach, Calif., a corporation of California
Application July 3, 1946, Serial No. 681,316
8 Claims. (Cl. 166—12)



1. A well tool of the character described for operation in a well casing including, a central tubular body, a gripping mechanism on the body and engageable in the casing, operating means for the mechanism including a member on the body shiftable longitudinally thereof and normally frictionally engaging the casing, and packing means including a unit shiftable longitudinally of the body and relative to the mechanism and also relative to the said operating means abutting said member when moved in one direction.

2,592,948
ROLLER LEVELER
Edward T. Peterson, Reading, Pa., assignor to Birdsboro Steel Foundry and Machine Company, Birdsboro, Pa., a corporation of Pennsylvania
Application November 26, 1947, Serial No. 788,273
1 Claim. (Cl. 153—104)



In a roller leveler, a head having a rail-engaging opening, a bearing chuck depending from the head at each end, a roll journalling in the chucks, and a rail extending through the rail engaging opening in the head from a position in the leveler to a position axial of the roll and to one side of the leveler.

2,592,949
CABLE SEAL
Joseph Philipson, Los Angeles, Calif., assignor to North American Aviation, Inc.
Application December 30, 1946, Serial No. 719,233
1 Claim. (Cl. 286—16)



In combination with a wall of a pressurized airplane cabin, a control element, said wall being provided with an aperture for receiving said control element, a grommet in said aperture, a tube surrounding said control element and tightly received in the eyelet of said grommet with one end projecting within and the other end without the cabin, said tube being open at its ends, of slightly greater diameter than said control element to avoid friction between said tube and said control element and of such a length that the resistance to flow through the remaining space therein is sufficiently great to prevent substantial loss of air therethrough, said grommet being formed of a material which is readily deformable and which retains its resiliency over a large temperature range, such as encountered both on the ground and at high altitudes, thereby to permit said tube to align itself with respect to said control element under all such temperature conditions.

2,592,950
HEAT EXCHANGE CORE
Stanislaus Przyborowski, Kenmore, N. Y., assignor to Fedders-Quigan Corporation, Buffalo, N. Y., a corporation of New York
Application September 24, 1948, Serial No. 50,975
4 Claims. (Cl. 257—130)

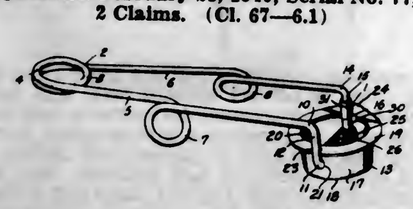
1. A heat exchange core comprising spaced headers, a plurality of independent tubes having a narrow elongated cross section positioned between the headers, said tubes being grouped in rows from the front to the back of the core with their narrow dimension disposed transversely, the tubes in each row being offset from each other a distance less than said narrow dimension, said rows of tubes being spaced transversely of

the core a distance greater than said narrow dimension, and continuous fins disposed between said rows and bonded to the tubes of adjacent rows, each of said fins comprising a strip of metal ribbon bent back and forth on itself to provide a plurality of spaced folds joined to each other by narrow edges, substantially imperforate bumps extending over the surface of each fold from the front to the back of the core, said bumps



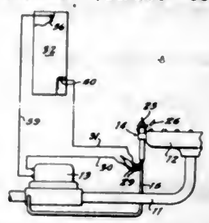
merging into each other, said bumps projecting alternately in opposite directions from the front to the back and between said narrow edges defining the limits of each fold, said narrow edges having straight portions having a length substantially equal to the long dimension of the tubes, said straight portions being connected by offset portions, whereby said narrow edges engage all of the tubes in said offset rows.

2,592,951
IGNITING DEVICE
Earl A. Randall, North Kansas City, Mo.
Application February 23, 1949, Serial No. 77,781
2 Claims. (Cl. 67—6.1)



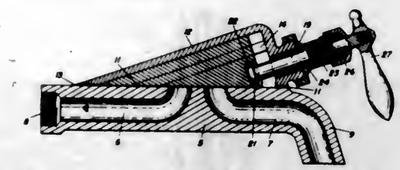
1. An igniting device including a pair of coextensive arms having resilient connection at one of their ends for retaining opposite ends in normally spaced apart relation but adapted to be moved toward each other, one of the arms having an offsetting portion extending at substantially right angles from the plane of said arms and a lateral terminal carried by said offsetting portion and extending in the direction of the other arm, a shield having a side wall surrounding a closed bottom and forming an open side opposite the closed bottom, said wall having opposed openings for passing said terminal therethrough and having an integral outwardly extending flange surrounding the open side of the shield with the flange having a notch engaging the offsetting portion to prevent rocking of the shield on said terminal, an abrading roller rotatable within the shield upon said terminal, a stop on the terminal engaging an outer side of the wall opposite the notch to cooperate with the notch in retaining the shield in fixed position on the terminal, and a pyrophoric element carried on a lateral terminal of the other arm for bearing support on the brading roller through the open side of said shield, said flange having a portion thereof turned laterally outwardly from said open side in tangential relation with the side wall opposite the notch to provide an elongated stop for the arm carrying the pyrophoric element.

2,592,952
THERMOELECTRIC CONTROL SYSTEM
William A. Ray, North Hollywood, Calif., assignor to General Controls Co., Glendale, Calif., a corporation of California
Application February 26, 1949, Serial No. 78,595
4 Claims. (Cl. 236—68)



1. In a heating control system for a space: a gas burner for supplying heat to said space; a sensitive electrically-controlled valve for controlling the supply of gas to said burner; a thermostat, responsive to the ambient temperature of said space, for controlling the energization of said valve; an electric heater, in good heat-transfer relation to said thermostat, for supplying "artificial" heat to the thermostat while the same is in heat-demanding condition; a thermoelectric generator for supplying electrical energy to both said valve and said heater; and an auxiliary gas-burner for heating said thermoelectric generator, said auxiliary burner having a capacity such that its consumption of ordinary fuel-gas is not in excess of about two cubic feet per hour.

2,592,953
HIGH-PRESSURE FAUCET TYPE VALVE
John Roberts, San Francisco, Calif.
Application December 1, 1948, Serial No. 62,962
1 Claim. (Cl. 251—58)

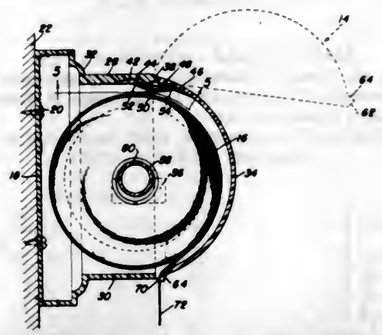


In a valve of the character described, a body portion, passageways formed in said body portion, a valve seat formed on said body portion, the adjacent ends of said passageways terminating at said valve seat, a cap secured to said body portion, inclined guide ribs carried by said cap and inclined with respect to said valve seat, a valve having grooves slidable on said inclined ribs and having a co-acting planar surface adapted to engage said valve seat, whereby reciprocation of said valve on said ribs will move said co-acting planar surface into wedging action with said valve seat to seal the ends of said passageways.

2,592,954
METHOD OF MAKING FLEXIBLE ABRASIVE ARTICLES
Norman P. Robie, Lewiston, N. Y., assignor to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Application December 16, 1942, Serial No. 469,232
4 Claims. (Cl. 51—295)

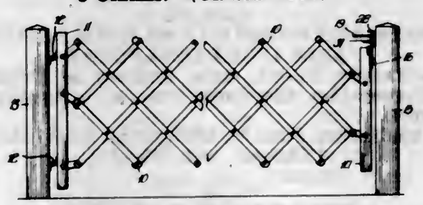
1. A method of making flexible abrasive articles comprising preparing a mixture of a soluble silicate and a moisture-resistant resin, applying said mixture to a flexible backing material, applying abrasive grain to the adhesive-coated surface, applying a size coating of an adhesive mixture of similar composition to the abrasive-coated surface, and heating the thus formed article to set the adhesive.

2,592,955
TOILET PAPER HOLDER
Glenn H. Roddan, Hammond, Ind.
Application January 18, 1951, Serial No. 206,629
7 Claims. (Cl. 242—55.2)



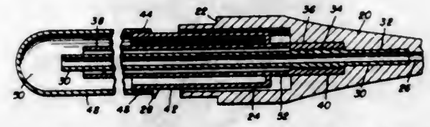
1. A toilet tissue holder comprising a first substantially rectangular housing having rear, side and longitudinal top and bottom walls, fasteners extending through said rear wall for securing said rear wall to a supporting structure, a second housing having a front elongated arcuate wall and side members, means for pivotally securing said arcuate wall to said top wall for swinging movement in a vertical plane, snap resilient means for selectively retaining said second housing in an open and closed position, and bearings mounted in said housing for retaining a toilet tissue dispensing roll in said first housing.

2,592,956
EXTENSIBLE GATE LOCK
Walter Saber, Chicago, Ill.
Application April 27, 1949, Serial No. 89,915
3 Claims. (Cl. 292—302)



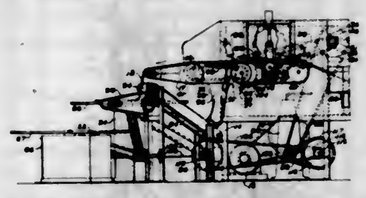
1. In an extensible gate and a cooperating post to which the gate shifts, said gate including an end bar, a lock comprising a pin engaged with said post, an eye formed at the free end of said pin, a stationary plate carried by said bar, a shiftable plate in association with said stationary plate, each of said plates being provided with a slot, including a longer section and a communicating narrower section, and a tensioning member in association with said shiftable plate for normally maintaining the narrower sections of said slots in alinement, said shiftable plate being adapted for shifting movement with relation to said stationary plate against the action of said tensioning member for bringing the longer sections of said slots in the two plates in alinement for permitting passage of said eye therethrough on shifting of the gate toward the post, in the normal position of said shiftable plate with relation to said stationary plate the shank of said pin being adapted to repose within the alined narrower sections of said slots with the eye of said pin constituting a means for preventing the withdrawal of the shank of said pin from the alined narrower sections of said slots.

2,592,957
SMOKING PIPE
Robert G. Sansom, Okolona, Miss.
Application December 16, 1947, Serial No. 791,985
3 Claims. (Cl. 131—212)



1. A smoke directing attachment for the mouthpiece of a pipe, said attachment comprising an elongated tubular conduit having first and second end portions, external threads on said conduit adjacent the first end portion of said conduit, a sleeve embracing the conduit and having first and second end portions, the first end portion of said sleeve being internally threaded and receivably engaging the external threads on said conduit, the second end portion of said sleeve terminating adjacent the second end portion of said conduit, a tubular member embracing the sleeve and having one end fixed to the sleeve adjacent the first end portion of said sleeve, said tubular member being of a length so as to extend between the first and second end portions of said sleeve, said sleeve having smoke ports therein between the fixed end of said tubular member and the first end portion of the sleeve, and a closure cap threaded on said tubular member and embracing the second end portion of said conduit and the second end portion of said sleeve.

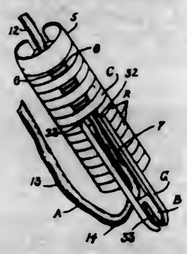
2,592,958
APPARATUS FOR HANDLING STRIP MATERIAL FROM EXTRUDING MACHINES
George H. Schanz, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 20, 1948, Serial No. 50,085
4 Claims. (Cl. 242—80)



3. Apparatus for feeding and cutting stretchable rubber strip material, said apparatus comprising a plurality of coiling mechanisms rotatable about fixed supports, a belt conveyor for supporting and feeding a strip of the stretchable rubber material toward said coiling mechanisms, a cutter in the path of said material for cutting determinate lengths of the material from said strip, a moveable trap in the path of travel of the strips from said cutter to said coiling mechanisms for dropping strips without stretching them and alternately directing the cut strips to

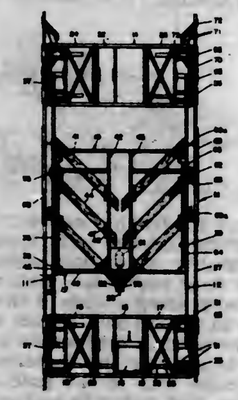
said coiling mechanisms, said trap being moveable in response to movements of said cutter, and means also operable in response to movements of said cutter for effecting alternate driving of said coilers as the strip material is delivered thereto.

2,592,959
OBSTETRICAL INSTRUMENT
Alan L. Schofield, Lowell, Mass.
Application December 2, 1950, Serial No. 198,840
3 Claims. (Cl. 128—361)



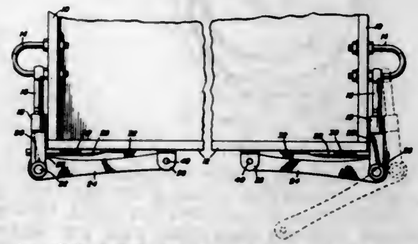
1. An obstetrical instrument for protecting a prolapsed umbilical cord during childbirth, comprising a laterally flexible, longitudinally expansible and contractable casing, said casing including a series of rigid interlocking split rings relatively turnable and axially movable with reference to each other to so register as to provide a slot the entire length of the instrument to permit a branch of the cord to be placed in and to extend through the entire length of the casing or to partially close the slot to retain such branch of the cord in said casing; in combination with a removable guide and holding member including a block fixed to and from which project two parallel arms each having an outside lengthwise groove, the free ends of each to fit between the ends of the split rings whereby the slot can be kept open for the insertion of the cord or part of the rings can be successively turned to close the slot.

2,592,960
CONCRETE ROADWAY FINISHING MACHINE
Clarence G. Schulse, Los Angeles, Calif., assignor to Madsen Iron Works, Inc., a corporation of California
Application September 23, 1946, Serial No. 698,598
12 Claims. (Cl. 94—45)



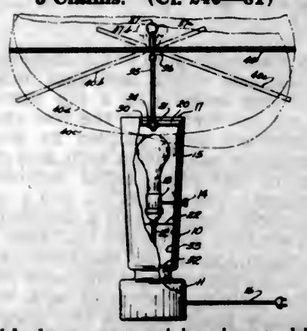
1. In a cement pavement finisher having a main frame comprising front and rear wheeled carriages with longitudinally disposed frame members pivotally connected at their front and rear ends respectively to said carriages; a composite float frame comprising a pair of semi-frames hingedly connected to each other about a longitudinal axis located substantially centrally of said main frame, adjustable support means supporting said frame at its center from said main frame, whereby said hinged connection may be adjustably raised and lowered, independently adjustable supporting means for supporting each outer edge of said frame from said main frame, and a plurality of floats adjustably connected to said float frames.

2,592,961
ADJUSTABLE SAFETY LATCH
Ray R. Scott, Muskogee, Okla., assignor of seventy-five per cent to Clarence E. Brockman, Lebanon, Mo.
Application November 22, 1948, Serial No. 61,446
3 Claims. (Cl. 292—257)



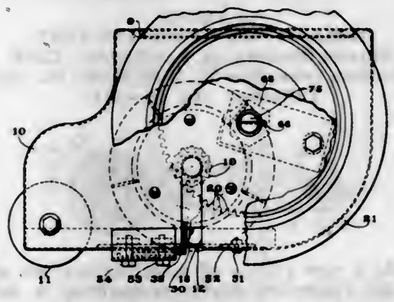
1. A safety latch for end gates and the like including a dowel comprising an inflexible rod having a flattened apertured terminal and apertured lugs integral with and extending transversely of said dowel intermediate its ends for securement to the member to be latched, a link having one end bifurcated to fit over a portion of said dowel, attachment means for the other end of said link, a lever pivoted to the bifurcated end of said link and having a cam at the pivoted end engageable with said dowel when the lever is in one position, and means adapted to be secured to the member to be latched for releasably securing the other end of the lever when the lever is in said position.

2,592,962
DECORATIVE TABLE LAMP WITH ADJUSTABLE LIGHT DEFLECTOR
Lee Secrist, Euclid, Ohio, assignor to Phil-Mar Corporation, Cleveland, Ohio, a corporation of Ohio
Application June 28, 1950, Serial No. 170,715
3 Claims. (Cl. 240—81)



1. A table lamp, comprising in combination, a hollow inverted frusto-conical body member having an open top a hollow frusto-conical reflector having open ends interfittedly seated within the said body member, a spider member having spaced upper and lower ring portions joined by means of spaced leg portions, seated within the said reflector, the said upper ring being of smaller diameter than the lower ring, each of the said legs having an upper portion extending radially from the said upper ring and a lower portion extending vertically from the said lower ring and at an angle thereto matching that of the conic sides of the body member, both the lower ring of the spider and the lower end of the reflector being of larger diameter than the base of the body member and the over-all length of both the reflector and spider being less than the length of the body member, so that the reflector and spider engage each other and the hollow body in a wedge fit; a light source mounted within the body member, and a mounting post seated in the spider upper ring and extending vertically from the open top of the body member; and a light deflector tiltably mounted on the upper end of the post in spaced relation with the open top of the said body member.

2,592,963
LAWN MOWER
Sayle Sherrow, Camden, Ohio
Application October 23, 1948, Serial No. 56,121
7 Claims. (Cl. 56—249)

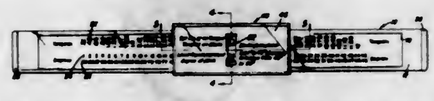


1. In a lawn mower construction in combination, a unitary supporting structure of sheet metal comprising a top plate and two depending end plates each provided with an inturned lower edge and with a slot opening through the lower inturned edge thereof, a blade reel supported directly upon said end plates for removal downwardly through said slots, and a cutter blade removably and separately supported upon the lower inturned edges of the end plates and a plurality of plates to which the cutter blade is attached extending across the open ends of said slots and resting upon the inturned edges of said end plates.

2,592,964
FRACTIONATION OF DIBASIC ACIDS
Andrew I. Smith, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application May 5, 1949, Serial No. 91,650
8 Claims. (Cl. 260—451)

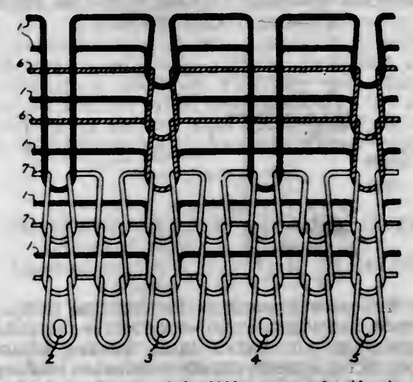
1. A process for the production of succinic acid which comprises oxidizing a paraffinic hydrocarbon by blowing with a gas containing free oxygen at a temperature between about 100° and 160° C. to produce an oxidized paraffin hydrocarbon, water washing said oxidized paraffin hydrocarbon to produce an aqueous extract of oxidized paraffin hydrocarbon, dehydating said aqueous extract by heating in the presence of an aromatic hydrocarbon having less than 9 carbon atoms per molecule at a temperature sufficient to produce a distillate containing water and said aromatic hydrocarbon and leave a residue of dehydrated water-soluble extract dissolved in said aromatic hydrocarbon and cooling said solution to separate solid succinic acid therefrom.

2,592,965
COMPUTING DEVICE
Frank W. Smith, Adair Village, Oreg.
Application November 27, 1950, Serial No. 197,679
4 Claims. (Cl. 235—89)



4. A computing device for carpenters comprising an elongated rigid rule composed of two juxtapositioned strips of transparent plastic material having inner faces formed with registering channeled grooves and an indicia bearing strip secured in said grooves, stops at the ends of the rule, and a laminated slide mounted on said rule for sliding movement between said stops, said slide including a pair of spaced parallel strips contacting the side edges of the rule and being of a width equal to the thickness of the rule, a pair of substantially rectangular strips extending across the rule and secured to said parallel strips, a transparent wall overlying one of said rectangular strips and being secured thereto, said transparent wall having an inner face with a recess therein, and another indicia bearing strip secured in said recess and coacting with the indicia on the first-mentioned indicia bearing strip.

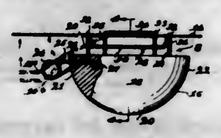
2,592,966
METHOD OF KNITTING ELASTIC FABRIC
Norman H. Smith, Pawtucket, R. I., assignor to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Original application June 13, 1950, Serial No. 167,785. Divided and this application May 11, 1951, Serial No. 225,753
2 Claims. (Cl. 66—9)



1. The method of knitting an elastic top for hosiery on a circular, independent needle, knitting machine which includes the steps of winding two rounds of an elastic yarn upon every other needle without knitting it, knitting a first course of another elastic yarn upon every other one of

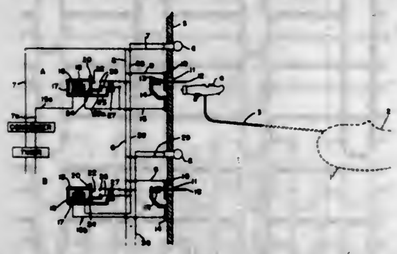
said alternate needles and casting off said first mentioned elastic yarn from these needles only, knitting a second course of said other elastic yarn through said first course of the same yarn at the same wales only, knitting an inelastic yarn upon all the needles said inelastic yarn being knitted through said other elastic yarn at the same wales as before and through said first mentioned elastic yarn at wales intermediate those last mentioned.

2,592,967
FISHING SINKER
Walter L. Snapps, Neah Bay, Wash.
Application October 25, 1950, Serial No. 192,126
5 Claims. (Cl. 43—44.83)



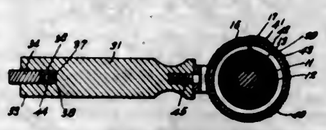
1. A fishing sinker comprising an elongated sinker body having a top surface, a fish line engaging member having end portions anchored in the sinker body and including complementary, longitudinally spaced downwardly opening substantially inverted V-shaped portions disposed above the top surface of the sinker body and adapted to slidably engage a fishing line, said inverted V-shaped portions each including a leg terminating above and spaced from the top surface of the sinker body and adapted to provide therewith a passage for applying the fishing line to or removing it from the inverted V-shaped portions, and a line retaining member anchored in the sinker body and having corresponding curved legs extending upwardly therefrom across said inverted V-shaped portions and terminating adjacent the level of the top thereof and laterally spaced therefrom for releasably retaining the line in engagement with the downwardly opening inverted V-shaped portions for sliding movement with respect to the sinker.

2,592,968
FLIGHT TRAINING APPARATUS
Charles W. Soule, Reno, Nev., assignor to Jessie C. Soule, Washington, D. C.
Application November 15, 1946, Serial No. 709,974
1 Claim. (Cl. 177—337)



An indicator apparatus for lighting lamps in sequence, including, a non-conductive panel having openings, an electric lamp located adjacent each opening, a main supply conductor leading to one terminal of each lamp, a return conductor, a common conductor leading from the other terminal of the lamp, and means for controlling the closing of a circuit for each lamp, said means comprising a conductive bracket at the rear of each opening, a conductive switch bar connected at its inner end with the bracket by a spring and having its free end projecting through the opening adjacent to a related lamp, a conductor ring at the rear of the opening and electrically connected to said main supply conductor, said ring adapted to be engaged by said bar when the latter is rocked in the related opening, a relay having one terminal of its magnet electrically connected to the main supply return conductor and its other terminal electrically connected to the bracket, an armature for the magnet spring biased away therefrom, a support on the relay, a bell-crank lever pivoted to the support and spring biased toward the armature, said lever having an apertured arm for interlocking engagement with the armature and also having a circuit closer arm, an insulated block mounted on the support, a pair of normally opened spring circuit controlling contacts mounted on the block and adapted to be closed by the circuit closer arm of the bell-crank when the armature is attracted to the magnet of the relay, a connection between one of said contacts and the common conductor, and a connection between the other of said contacts and the connection between the bracket and the magnet, whereby, when the contacts are closed by the bell-crank lever the circuit to the lamp including the relay remains closed to illuminate its related lamp and also close the circuit through the common conductor for energization of successive relays and lamps.

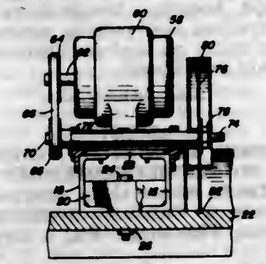
2,592,969
ROLLER FOR REMOVING LINT
Harriet Stachowiak, Los Angeles, Calif.
Application December 21, 1945, Serial No. 636,335
3 Claims. (Cl. 15—104)



3. As a new article of manufacture, an adhesive lint-removing device comprising a hollow casing having an outer cylindrical surface, a roll of adhesive tape journalled within said casing, said casing having a slot located in said cylindrical surface whereby said tape can be extended through said slot and extended around the exterior of the cylindrical surface of the casing with the adhesive side of the tape outermost to form a continuous adhesive covering for said casing, a handle, and the casing being journalled on said handle for facilitating the rolling of the surface of material to pick up lint and light particles from the surface of said material.

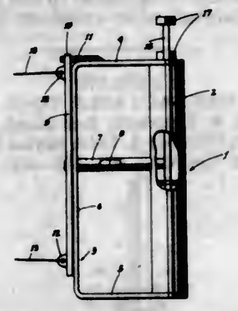
2,592,970
SLIDING CUTOFF SAW
Ray E. Starnes, Mitchell, S. Dak.
Application October 24, 1949, Serial No. 123,170
2 Claims. (Cl. 308—3)

1. A support for a sliding cut-off saw comprising an elongated base member, means for securing said base member to a table, a frame adapted to support a motor and rotatable blade, means slidably and guidingly retaining said frame on said base member, and means preventing lateral movement of said frame on said base member, said base member including a pair of opposed longitudinal U-shaped bars and said securing means includes a T-shaped spacer block mounted between said bars and bolts securing said block to a table, said second-named means including transverse spacer strips disposed on the upper surfaces of said U-shaped bars, longitudinal plates secured to said spacer strips, said plates overlapping the side edges of said strips to form longitudinal channels, said frame having longi-



tudinal T-shaped side members, one horizontal arm of each of said side members being received in the corresponding one of said channels, the vertical arm of each of said side members bearing against the corresponding one of the outer surfaces of said U-shaped bars.

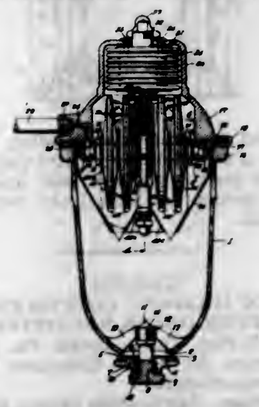
2,592,971
CONTROL HANDLE FOR MODEL AIRPLANES
Harry Stewart, Grass Valley, Nev.
Application August 27, 1948, Serial No. 46,488
10 Claims. (Cl. 46—77)



1. A control handle for tethered, power driven model or toy airplanes wherein the tether is a vertically spaced pair of flexible cords, the handle comprising a hand grip, an upstanding attachment bar disposed ahead of the grip, means to attach the cords to the bar in spaced relation lengthwise thereof, means mounting the attachment bar on the hand grip for motion to reverse said bar endwise, and a hand actuated mechanism mounted on the grip and connected to said bar to so reverse the same.

2,592,972
FILTER
Frederick W. Strassheim, Chicago, Ill.
Application June 30, 1947, Serial No. 758,115
6 Claims. (Cl. 210—182)

1. In a filter for liquid, a housing, means for delivering to the interior of the housing the liquid to be filtered, a hollow filter member of self-sustaining liquid-pervious material constructed in two abutting reversed, conical halves, means for operatively supporting the hollow filter member within the housing, means for withdrawing filtered liquid from the interior of said hollow filter member, a stationary scraper adjacent the filtering surface of said hollow filter member, and pressure responsive means for automatically imparting, in response to pressure changes within said housing, generally continuous relative movement to said scraper and said filter member at a time predetermined as that time best suited for a scraping operation, scraper clearance defining means carried by the hollow filter member and operatively engaged by the scraper to maintain a predetermined clearance between the scraper and the filtering surface of the filter, the



clearance between said scraper and filter member being generally uniform throughout the filtering area and being sufficiently close to maintain on the surface of the filter member a thin layer of solids deposited by and originating in the filtered liquid and constituting a primary filtering medium on said hollow filter member, said housing having a sludge outlet aperture and a removable closure therefor.

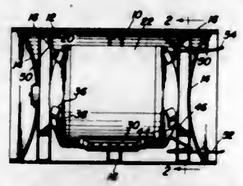
2,592,973
PURIFICATION OF MINERALS
Reginald Sturgeon and Eric Seddon, London, England, assignors to The United Glass Bottle Manufacturers Limited, London, England, a British company
No Drawing. Application October 22, 1949, Serial No. 123,096. In Great Britain October 25, 1948
8 Claims. (Cl. 23—182)

1. A process for reducing iron impurities in minerals which consists in treating the minerals with an aqueous solution which is free from fluorine ions and oxalic acid but in which the dissolved constituents consist essentially of metallic salts one of which is selected from the group consisting of titanous sulphate and titanous chloride, and the other is selected from the group consisting of sodium sulphate and sodium chloride, and recovering the purified mineral product.

2,592,974
SUSPENSION LIQUID GAS CONTAINER
Gerard F. Sulfrian, Chatham, N. J.
Application July 1, 1949, Serial No. 102,628
2 Claims. (Cl. 220—15)

1. In a liquid gas receptacle having inner and outer substantially cylindrical containers; a means for suspending the inner container spaced from the outer container comprising spaced circumferentially extending reinforcing ribs secured to the inner wall of the outer container, plate-like lugs secured to the outer wall of the inner container adjacent the corners thereof and struck at a radius from the center of the inner container, and links interconnecting said ribs and said lugs,

said ribs including radially extending, depending, plate-like brackets rigidly secured thereto and having laterally extending pins, said lugs also including laterally extending pins, each of said links including spaced bars straddling said plate-



like lugs and brackets and holding them non-rotatably in a common plane, and elongated slots adjacent the ends of each of said links receiving said pins, certain of said links being adjustable in length.

2,592,975

METHOD OF GRADING COPPER FOR USE IN COPPER OXIDE RECTIFIERS

Herbert L. Taylor, Turtle Creek, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania

No Drawing. Application March 31, 1949, Serial No. 84,765
14 Claims. (Cl. 23—230)

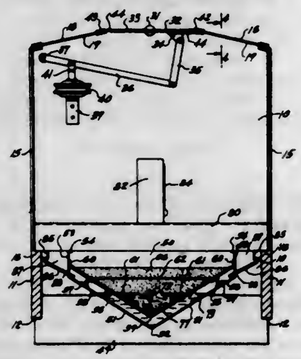
1. The method of grading copper for use in manufacturing copper oxide rectifiers which comprises the steps of treating a sample of the copper to be graded with a solution containing iodine having a known oxide flaking effect when applied as a preoxidizing treatment to a similar sample of copper having known rectifier characteristics when oxidized to form an oxide film thereon; heating the treated sample in an oxidizing atmosphere to form an oxide coating thereon; and cooling the oxidized sample, the degree of flaking of the oxide coating of the treated copper sample following the cooling step being indicative of the rectifier characteristics.

2,592,976

PLANT-GROWING APPARATUS

Joseph G. Thomas, Lebanon, Mo., assignor of one-half to Benjamin F. Krehbiel, Wichita, Kans.

Application February 14, 1948, Serial No. 8,425
18 Claims. (Cl. 47—1.2)



13. In an apparatus of the character described a housing having transparent walls, a tank narrower than said housing mounted in the lower portion of said housing, means for supplying liquid to said tank to maintain a predetermined level of liquid therein, a perforated partition mounted within said tank and extending below said liquid level, said housing having openings in the lower portion thereof, and there being air passages between the side walls of said housing and said tank, venting means in the upper portion of said housing, temperature responsive means controlling said venting means, and loose material mounted on said partition and extending above said liquid level.

2,592,977

PRODUCTION OF BUTADIENE MONOCHLOROHYDRIN

Warren L. Towle, Akron, Ohio, assignor, by mesne assignments, to Columbia-Southern Chemical Corporation, Pittsburgh, Pa., a corporation of Delaware

No Drawing. Application April 26, 1946, Serial No. 665,317
9 Claims. (Cl. 260—634)

1. A process of manufacturing butadiene monochlorohydrin which comprises mixing hypochlorous acid solution containing less than 50 grams of HOCl per liter of hypochlorous acid solution, under conditions of vigorous agitation, with butadiene dissolved in an aqueous solution of butadiene monochlorohydrin at a temperature below 15° C., the molecular ratio of butadiene to butadiene monochlorohydrin added being maintained in excess of 0.1 and the molecular ratio of butadiene in solution to the hypochlorous acid being maintained in excess of 1.3.

2,592,978

RETRACTABLE TOOL

Frank A. Trimboli, Red Bank, N. J.

Application October 5, 1949, Serial No. 119,680
2 Claims. (Cl. 145—64)



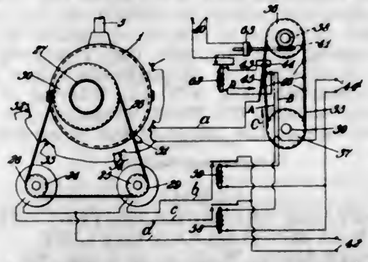
1. An extensible screw-driver or similar tool comprising a longitudinal tool shank of non-circular cross section and having longitudinally spaced cross notches therein, a hand grip form of handle having a correspondingly shaped, non-circular cross sectional passage extending entirely therethrough, open at opposite ends and slidingly receiving said tool shank and thereby holding said handle and shank in non-rotatable relation in all positions of relatively longitudinal adjustment of shank and handle, a sleeve rotatably engaged on said handle and having a flange disposed over the inner end of the handle, said flange having an opening therethrough corresponding to the non-circular cross sectional shape of the passage through the handle, a spring ball detent recessed transversely in said handle within and covered by said sleeve and yieldably engageable with the latter for retaining said sleeve rotated in position with said flange opening in register with the passage through the handle or out of register therewith to either permit relative sliding adjustment of the tool shank and handle or the securing of the tool shank in selected position in the handle by the engagement of the flange in a selected cross notch in the shank, a wrench head on the outer end portion of the handle for engagement with and application of a wrench or leverage applying tool thereto, the tool shank having sliding adjustment within the handle sufficient to project the end of the tool shank beyond the outer end of the handle and beyond said wrench head, with the handle and tool shank still coupled in non-rotatable relation whereby a leverage applying or other turning tool may be directly applied to the outer, exposed end of the non-circular tool shank and to said wrench head, and a cap removably engageable over the outer, open end of the handle and over said wrench head to form, when in place on the handle, a guard for preventing the projection of the tool shank beyond the end of the handle and to protect the hand gripping the end of the handle, from engagement by the outer end of the tool shank.

2,592,979

ELECTRICALLY CONTROLLED SYSTEM AND AUTOMATIC MACHINE FOR REPETITION WORK

George Mark Vale, Saint Neots, England

Application September 29, 1947, Serial No. 776,704
In Great Britain October 7, 1946
10 Claims. (Cl. 74—1)



1. A machine for automatic operation of a reproducer device for giving a series of different movements in a predetermined sequence comprising in combination, at least one eccentric, a reproducer device operatively connected with said eccentric, said eccentric carrying an eccentric strap, a stationary shaft having a large diameter with respect to the eccentricity of the eccentric and on which said eccentric is rotatably mounted thereon to perform a large throw, means to operate the eccentric in a clockwise direction, means to operate said eccentric in a counterclockwise direction, and friction means carried by the eccentric strap to act upon the eccentric so as to damp out momentum of moving parts, thereby stopping the eccentric at a selected position.

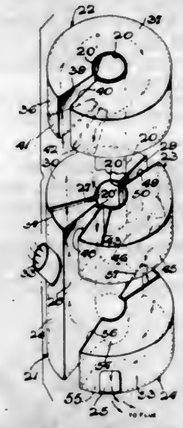
2,592,980

VERTICAL FLUE BOILER WITH INTERNAL HEATER

William B. Van Wert, Peckville, Pa.

Application July 13, 1949, Serial No. 104,438
5 Claims. (Cl. 122—33)

2. A boiler of the character described comprising an outer cylindrical casing, an inner tubular member concentric with the outer casing, said tubular member forming a central support, a semi-cylindrical combustion chamber, a top annular gas chamber, and a plurality of subjacent, semi-cylindrical, axially displaced lateral gas chambers, all of said chambers being supported by said tubular member, the spaces between the combustion chamber and the adjacent gas chambers and between successive adjacent



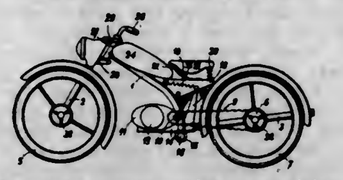
gas chambers constituting water passages of substantial contact area, the tubular member being in fluid communication with each of said water passages, a domestic hot water heating coil positioned within the central tubular support, and flue connections between the chambers whereby the gases of combustion flow upwardly from the combustion chamber into the top gas chamber and thence downwardly in ziz-zag fashion through the subjacent gas chambers.

2,592,981

TWO-WHEEL VEHICLE

Hans Edouard Violet, Basel, Switzerland, assignor to Sotecom S. A., Geneva, Switzerland, a corporation of Switzerland

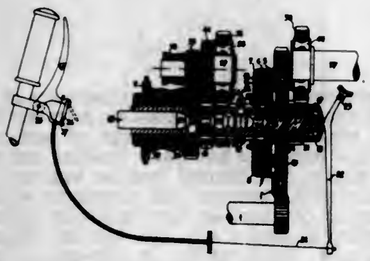
Application May 13, 1948, Serial No. 26,897
In Switzerland May 16, 1947
2 Claims. (Cl. 180—32)



1. A frame for motor cycles, comprising, a central member disposed in a single vertical plane and declining rearwardly and carrying at its lower rear end a journal extending horizontally, a handle bar support journalled in the front end of the central member, upper and lower pairs of rods each pair pivoted at corresponding ends to one end of the handle bar support, a front member having an upper portion connected to the other corresponding ends of the pairs of rods and having a lower portion disposed in a plane parallel to said first plane, spring means reacting against the upper end of the handle bar support and the front member and urging the front end of the central member upwardly, a rear member, an axle rigid with the rear member and extending at right angles and horizontally from the rear member and journalled in the journal of the

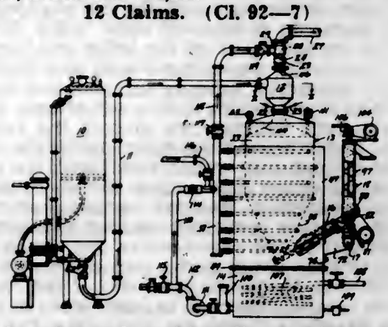
central member for swinging in a vertical plane, the rear member including an arm disposed rearwardly of the axle and in a plane parallel to said first plane, and also including a second arm disposed forwardly of the axle and partly in a plane parallel to said first plane and having its front end disposed in said first plane, second spring means connecting the central member to the rear member and urging the former to a predetermined angular relation to the rear member, and wheel mounting means each carried respectively by the lower end of the front member and the rear end of the rear member and extending at right angles therefrom.

2,592,982
TRANSMISSION
Hans Edouard Violet, Zurich, Switzerland, assignor to Sotecom S. A., Geneva, Switzerland, a corporation of Switzerland
Application February 3, 1949, Serial No. 74,295
In Switzerland May 16, 1947
5 Claims. (Cl. 74—372)



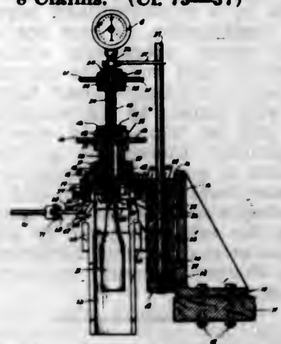
1. In a transmission especially for motor vehicles particularly motorcycles, the combination, comprising, a driving shaft having a pinion, a rotatable main shaft, a gear meshing with the driving shaft pinion rotatable and axially slidable on the main shaft and urged to a predetermined position thereon, a multi-disc clutch carried by the gear and inoperative in the first position thereof and in a second position thereof clutching the gear to the main shaft, control means operable to move the gear from the first to the second position, a second pinion rigid with the main shaft, a third pinion rotatable on the main shaft, a second gear rotatable on the main shaft, a driven member rigid with the second gear, an auxiliary shaft, a fourth and fifth pinion rigid with the auxiliary shaft and meshing respectively with the second gear and third pinion, a sixth pinion rotatable on the auxiliary shaft, and meshing with the second pinion rigid with the main shaft, an overruning clutch coupling the sixth pinion to the auxiliary shaft, operable means in the main shaft for locking the third pinion to the main shaft, operable means in the main shaft for locking the second gear to the main shaft, latch means in the main shaft and urged to latching position, and a control member within the main shaft and including recesses receiving both locking means in inoperative position, the control member being movable to a second position placing the first locking means in operative position locking the third pinion to the main shaft and the control member being also movable to a third position placing the second locking means in operative position locking the second gear to the main shaft and the first locking means being in inoperative position.

2,592,983
APPARATUS FOR SEPARATING COOKING LIQUOR FROM PULP
Paul G. von Hildebrandt, Portland, Oreg.
Original application July 2, 1945, Serial No. 602,898. Divided and this application July 17, 1947, Serial No. 761,585
12 Claims. (Cl. 92—7)



1. A pulp and cooking liquor blow pit assembly comprising an inner compartment having a perforated, screen-covered wall portion with an inverted conical bottom section having a pulp and liquor discharge outlet at its bottom, means to feed cooking liquor and pulp into the upper end of said compartment, an outer shell spaced away from and enclosing at least the perforated portion of said compartment, a tapered screw conveyor having its inlet positioned to receive liquor-soaked pulp from said discharge outlet and its conveying screw increasing in diameter from the inlet to discharge end, said conveyor extending through the outer shell for removing such pulp from the conical bottom discharge outlet to exterior of the outer shell, said conveyor having a perforated trough and a housing at least under the trough for receiving liquor draining through the latter, said trough communicating with the interior of the outer shell so that the liquor draining into the trough flows into the inside of the outer shell.

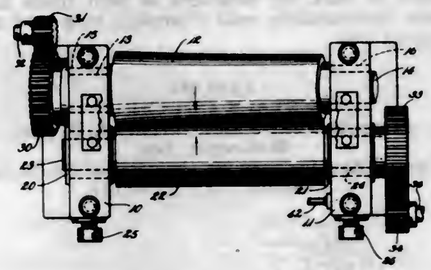
2,592,984
HYDROSTATIC PRESSURE TESTING DEVICE FOR BOTTLES AND THE LIKE
Joseph Milton Walling, St. Louis, Mo.
Application August 12, 1946, Serial No. 689,934
8 Claims. (Cl. 73—37)



1. In a device of the kind described, the combination of a holder for a hollow container to be tested, including a neck ring contoured to fit the neck of a container being tested, a sealing member for fitting over the opening of a container, means for exerting pressure on said sealing member, a tube adapted to pass through said sealing means and enter the opening of a container, a

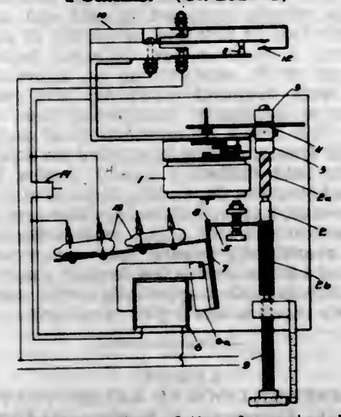
pressure responsive member in sealed relation with the intruding end of said tube, means for moving said tube vertically in respect of a container, and a gauge device in connection with said tube for registering pressure in said tube impressed thereon by distortion of said pressure responsive member.

2,592,985
APPARATUS FOR WORKING PLASTIC MATERIAL
Gerald W. Walrafen, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application October 8, 1948, Serial No. 53,551
8 Claims. (Cl. 18—2)



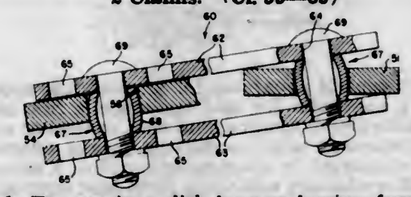
5. Apparatus for working plastic material, said apparatus comprising a supporting frame, and a plurality of rolls mounted for rotation therein, means for adjusting one of said rolls toward another, about axes in nonintersecting-nonparallel relation one to another, at least one of said rolls having a concave conoidal face, and the surfaces of said rolls being parallel to each other throughout a nip of said rolls, and means for driving each roll independently.

2,592,986
TIMING RELAY
Nils R. M. Weibull, Malmo, Sweden
Application April 4, 1949, Serial No. 85,300
In Sweden April 15, 1948
4 Claims. (Cl. 161—1)



1. In a timing relay of the character described the combination comprising a rotatable and axially displaceable spindle having on part of its length a non-selflocking screw thread, two stationary bearings on said spindle, a nut wheel arranged on said spindle in mesh with the non-selflocking screw thread thereof and between said bearings, a clockwork for driving said nut wheel, a braking device including and operable by an electromagnet for preventing the spindle from rotation but not from moving axially, and a contact device operable by the spindle in a certain axial position thereof for controlling the circuit of said electromagnet.

2,592,987
DISK HARROW ANGLING LINK
Charles H. White, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application October 22, 1947, Serial No. 781,369
2 Claims. (Cl. 55—83)



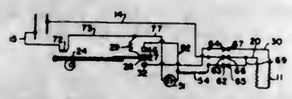
1. For use in a disk harrow having front and rear gangs each including a gang frame, and a forwardly extending bracket fixed to the rear gang frame and a rearwardly extending bracket fixed to the front gang frame, each bracket having a generally cylindrical opening in its outer end, the improvement comprising a rigid connecting link adapted to transmit forces in compression and in tension and extending between said brackets said rigid connecting link comprising a member having at each end apertured upper and lower sections adapted to embrace the apertured portion of the associated bracket and said sections being spaced apart to receive said bracket with clearance between the faces of the latter and the adjacent faces of said sections, a bushing disposed between each pair of apertured link sections and disposed in the opening in the associated bracket, the outer surface of each bushing being outwardly curved and having an outer diameter that is substantially equal to the diameter of the opening in the associated bracket, thereby accommodating rocking of one gang relative to the other in a generally vertical direction, the clearance between said sections and the adjacent faces of said bracket being so related that, in any position of the bracket between said sections, the portion of the associated bushing of greatest diameter lies within the cylindrical wall of the opening of the associated bracket, thereby eliminating any looseness or lost motion between the brackets and the associated bushing in any angular position of one relative to the other within the limits of the clearance between said upper and lower sections and the associated bracket, and fastening means extending through the openings in the associated link sections for fixing said bushing in place therebetween.

2,592,988
COAGULATION-RESISTANT CREAM STYLE CORN AND PROCESS FOR PREPARING THE SAME
Robert A. Whitmore, Saratoga, and Frank D. Hickey, Mountain View, Calif., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
No Drawing. Application April 18, 1950, Serial No. 156,726
9 Claims. (Cl. 99—186)

1. A coagulation-resistant cream-style corn comprised of a solid corn kernel component and

a cream fraction, wherein said cream fraction contains small quantities of a halogen-treated corn starch.

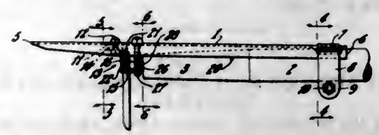
2,592,989
THERMAL CONTROL APPARATUS WITH SIGNAL MEANS
John M. Wilson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application October 17, 1949, Serial No. 121,875
8 Claims. (Cl. 177—311)



1. In control apparatus for an electrical appliance, a controller for said appliance, a first pair of conductors extending into said controller and also connected with connecting means adapted to be connected to a source of current, a second pair of conductors extending from said controller to a detachable connection means arranged between said controller and said appliance, said connection means comprising two separable members, one of said members having three projecting conductor means and the other of said members having three corresponding socket conductors arranged to be engaged by said projecting conductors, one of said first pair of conductors being connected to one of said second pair of conductors which in turn is connected to one of the conductor means of one of said connector members, a switch in said controller, thermostatic means for operating said switch, manually adjustable means for adjusting said thermostatic means within a normal operating range of said controller, said manual adjusting means also being adjustable to an off position wherein said thermostatic means is biased to a position outside the operating range of the controller, said switch being connected between the other of said first pair of conductors and the other of said second pair of conductors, the other of said second pair of conductors being connected to another of said conductor means of one said connector member, a signal light having a pair of terminals, means connecting one of said terminals to one of said first pair of conductors, a resistor, conductor means including said resistor connecting the other terminal on said light to the remaining conductor means of said one connector member, conductor means connecting the conductor means of the other connector member engageable with said remaining conductor means to the conductor means of said other connector member engageable with the conductor means of said one connector member connected to the other of said first pair of conductors, additional switch means operable upon adjusting said manual adjusting means to its off position, and circuit means controlled by said additional switch means for shunting said signal light.

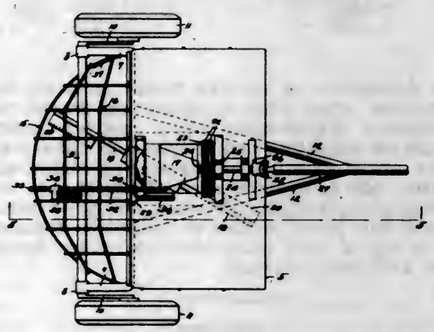
2,592,990
ATTACHMENT FOR GARDEN TOOLS
Paul J. Wolf, West Springfield, Mass.
Application April 13, 1950, Serial No. 155,571
2 Claims. (Cl. 56—400.05)

1. An attachment for a garden rake having a straight round handle and a toothed rake portion provided with a tang engaged in said handle, said attachment comprising a long, relatively narrow, parallel-sided blade, arcuate in cross section and pointed at one end for insertion in the ground, a clamping ring secured on said blade adjacent the end of said blade opposite said pointed end and adapted to encircle said handle, a Z-shaped clip member having spaced parallel leg members and a connecting web, one of said



leg members being provided with a slot for receiving at least two of the teeth on said rake portion, and fastening means for securing the opposite of said leg members to said blade at a point intermediate said clamping ring and said pointed end.

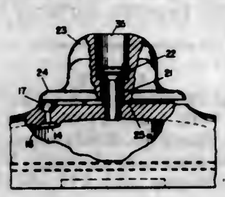
2,592,991
STALK CUTTER
James O. Yeager and Garland A. Yeager, McGregor, Tex.
Application January 26, 1949, Serial No. 72,798
3 Claims. (Cl. 55—118)



1. A stalk cutting machine having a generally horizontal frame, arms extending rearwardly from said frame having free rear ends, a transverse shaft including forwardly extending end members, means pivoting said shaft to the said free rear ends, wheels mounted on said end members with their axis of rotation forwardly of said free rear ends, a stalk-cutter disposed below said frame and shaft rotatable on an approximately vertical axis disposed forwardly and relatively close to a generally transverse line passing through the zones of connection of said arms with said frame, means supported on said frame to rotate said cutter, a guard means for the material being cut depending from said frame in operative association with said cutter and including a portion disposed about said cutter and extending rearwardly beyond said cutter and said shaft, and means connected to said shaft and to said frame operable to pivotally swing said shaft to thereby regulate the depth of cutting.

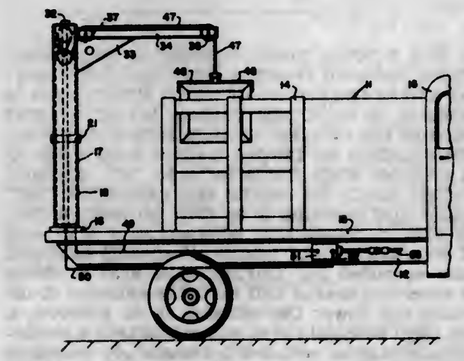
2,592,992
PRESSURE COOKER RELIEF VALVE
Charles W. Abercrombie, Bridgeport, Conn., assignor, by mesne assignments, to Karen Products, Inc., New York, N. Y., a corporation of New York
Application January 21, 1946, Serial No. 642,526
11 Claims. (Cl. 137—53)

1. Pressure control means for a pressure cooker, having a pressure relief vent, comprising a valve in the vent, a weight loosely and rotatably mounted on the cooker and overlying the valve, and a plurality of projections on the underface of the weight spaced at different radial distances from the axis of the weight, the weight being supported upon the cooker by the valve and one



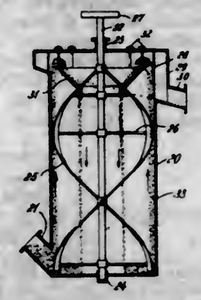
of the projections beyond the center of gravity of the weight, so that by turning the weight it is possible to select which of the projections will serve as the second support or fulcrum for the weight and thereby control the cooking pressure.

2,592,993
LOADING AND UNLOADING DEVICE
Eli J. Adams, Rogersville, Mo.
Application June 14, 1949, Serial No. 99,031
2 Claims. (Cl. 212—65)



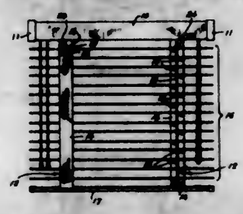
1. In a hoist device for attachment to the frame of a motor vehicle, a vertically disposed fluid pressure cylinder having its lower end resting upon said frame and secured thereto, a vertically disposed hollow housing superimposed upon said cylinder and having the lower end connected to the upper end of said cylinder for rotation about said cylinder upper end, a piston disposed within said cylinder and mounted in the latter for reciprocatory movement, a piston rod having one end secured to said piston and having its other end extending into said housing, a horizontally disposed boom having one end positioned adjacent the upper end of said housing and secured thereto, a rotatable pulley carried by said boom at each end thereof, a flexible cable having one end operatively connected to said other end of said piston rod with an intermediate portion supported on said rotatable pulleys for movement longitudinally of the boom, article engaging means carried by the other end of said cable, and hydraulic means operatively connected to said cylinder for effecting the reciprocatory movement of said piston.

2,592,994
METHOD AND APPARATUS FOR GRINDING BY THE USE OF GRINDING BODIES SUBJECTED TO CENTRIFUGAL FORCE
Nikolai Ahlmann, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application July 3, 1947, Serial No. 758,768
In Denmark May 28, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires May 28, 1962
13 Claims. (Cl. 241—26)



1. A grinding apparatus, which comprises a vessel of circular cross-section having an inlet for material to be ground and an outlet for ground material, the inlet and outlet lying at opposite ends of the vessel, a charge of freely movable grinding bodies within the vessel, the amount of the charge being such that the grinding bodies form only a relatively thin layer on the inner surface of the vessel, when distributed thereover, a plurality of agitating members mounted within the vessel about the axis thereof and extending generally lengthwise of the vessel substantially from the inlet to the outlet, and means for causing relative movement of the vessel and members about the axis of the vessel at a speed effective to distribute the material and bodies in a relatively thin layer covering the entire inner surface of the vessel, the members lying adjacent the inner surface of the vessel and being adapted to engage and cause a relative movement of the bodies and material within and throughout the layer and to propel the material and bodies from the inlet toward the outlet.

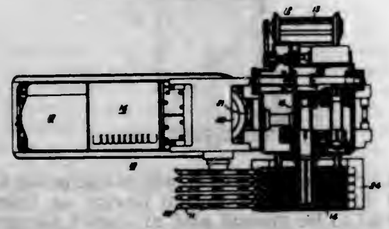
2,592,995
VENETIAN BLIND CONSTRUCTION
Joseph A. Anderle, Westerleigh, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Application April 29, 1950, Serial No. 159,075
3 Claims. (Cl. 160—173)



1. A Venetian blind, comprising: a head bar, a plurality of slats suspended in parallel relation from the head bar, a bottom bar located below the slats, lift cords reeved through the head bar, the ends of the lift cords extending downwardly through holes in the head bar and slats and having an enlarged end attached to the bot-

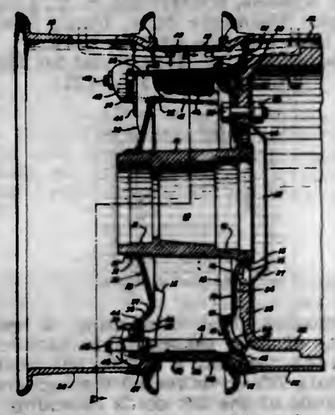
tom bar, and a cord retainer located on each lift cord between the top slat and the head bar, the enlarged ends of the lift cords being free to pass upwardly through the slats of the blind and the cord retainers providing for free passage of the intermediate portion of the lift cords but engaging the enlarged bottom ends thereof to prevent their passage into the head bar.

2,592,996
MINING MACHINE
Alexander Anderson, Motherwell, Scotland, assignor to Anderson, Boyes & Company Limited, Motherwell, Scotland, a company of the United Kingdom of Great Britain and Northern Ireland
Application June 22, 1949, Serial No. 100,680
In Great Britain January 28, 1949
5 Claims. (Cl. 262—9)



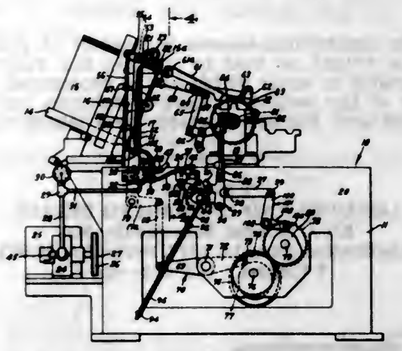
1. A longwall mining machine including a main traveling unit, a main rotary cutting wheel comprising a plurality of discs armed peripherally with cutting elements, said main cutting wheel being mounted on said main unit, and being rotatable about a substantially horizontal axis, a loader unit articulated to the rear end of said main unit close to said main wheel to receive cuttings discharged by said main wheel, and a supplementary rotary cutting wheel journaled in and vertically adjustable relatively to said loader unit at a higher level than said main cutting wheel and rotatable about a substantially horizontal axis parallel to said first mentioned axis, said supplementary cutting wheel comprising a plurality of discs armed peripherally with cutting elements and adapted to discharge its cuttings on to said loader unit.

2,592,997
VEHICLE WHEEL
Charles S. Ash, Milford, Mich.
Application September 20, 1947, Serial No. 775,226
12 Claims. (Cl. 301—13)



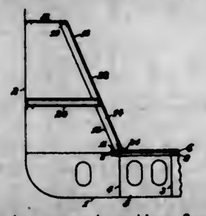
10. A vehicle wheel comprising, in combination, a tubular hub, a pair of pressed web members spaced throughout their radial extent secured to said hub, said members being formed with radially extending U-shaped spoke elements and axially turned peripheral portions between said spoke elements, and pressed open box-like plate elements having top and side walls extending between respective spoke elements of said web members and secured thereto, said plate elements having external surfaces for mounting a pair of rims.

2,592,998
FEEDER AND IMPRESSION CYLINDER CONTROL FOR PRINTING PRESSES
John F. Banthin, Bridgeport, Conn.
Application May 1, 1947, Serial No. 745,262
5 Claims. (Cl. 101—284)



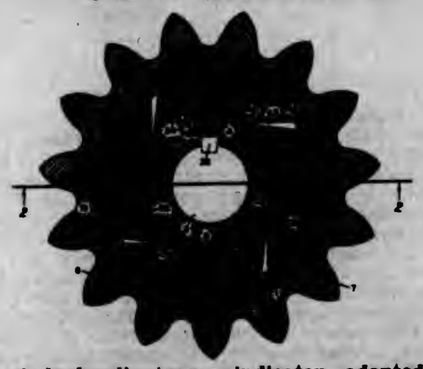
1. In a printing press including an impression cylinder movable between "on" and "off" positions and in the former of which the cylinder is positioned to have type impress ink on a sheet carried by the cylinder, vacuum feeder means including suckers for moving a sheet from a pile to said cylinder while the latter is in "off" position, eccentric means for raising said cylinder to "off" position and lowering it to "on" position, a pivoted arm, a connection between said arm and said eccentric means, means alternately cam and spring operated for shifting said arm to move said eccentric means and raise the cylinder to off position and lower the cylinder to on position, a latch rigid with said arm and movable in a predetermined path as said arm is alternately moved by the cam and spring means, a system for applying vacuum pressure to said feeder means, a valve body in said system, a second body in said system in series with said valve body, said valve body forming a connection between a vacuum pump and said feeder means at a point in said system inwardly of said second body, said valve body adapted to be opened to atmosphere to break the suction in said system and render said feeder means inoperative, means movable with said feeder means to open said valve body in a predetermined position of said feeder means to break said vacuum and have said feeder means deposit a sheet to be printed and to cause closing of said valve body on return movement of said feeder means, a plunger in said second body and adapted to be held inwardly thereof by suction when said valve is closed and said suckers are holding a piece to be printed upon whereby said system is closed, a pivoted catch connected with said plunger and held in inoperative relation out of the path of movement of said latch when said vacuum system is closed, and held in the spring-urged path of movement of said latch when said vacuum system is open, and said plunger adapted to move outwardly of said second body and permit said catch to move into locking relation in said spring-urged path of movement of said latch when said system is open to atmosphere whereby to lock said cylinder in "off" position on said feeder means moving from the paper pile toward said cylinder without said suckers being sealed by a piece of paper whereby on failure of the feeder means to deliver said paper to the cylinder the same will be held in "off" position during the cycle of the press' operation so that the type of the press may not apply ink to the impression blanket of the cylinder.

2,592,999
SHIP TANK TOP AND HOPPER CONSTRUCTION
Wilford G. Bartenfeld, Lakewood, Ohio
Application November 10, 1949, Serial No. 126,526
3 Claims. (Cl. 114—79)



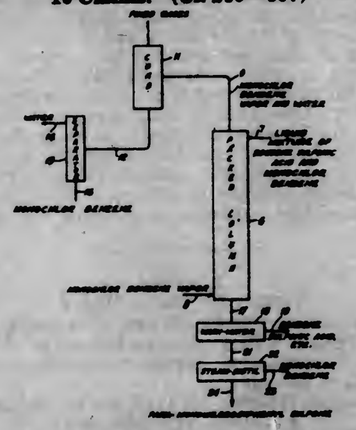
1. In a tank top construction for ships and the support and connection therewith of the sides of the hopper, the combination of a tank top, the tank top being supported by a central keelson and side keelsons, the tank top having longitudinally extending side ledges beyond the side keelsons, frame angles consisting of a web and a flange, the webs and the flanges of the frame angles extending inwardly relative to the center keelson and resting endwise upon said side ledges of the tank top, the webs of the frame angles adjacent to the tank top ledges being notched, an angle bar having one of its flanges in the notches of the frame angles and its other flange resting upon its ledge, and plates supported by the webs of the frame angles and overlapping the flange of the angle bar in the notches of said frame angles.

2,593,000
HYDRAULIC TORQUE INDICATOR
Frederick B. Bayless, Midland, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application January 2, 1948, Serial No. 302
8 Claims. (Cl. 73—136)



1. A hydraulic torque indicator, adapted to operatively connect a drive means and a drive shaft for a rotary table of a rotary drilling rig, comprising in combination a cylindrical cylinder head rigidly mounted on said drive shaft, one end portion of said cylinder head being notched so as to form a modified cross and the other end being provided with an outwardly turned flange; a cylinder of given size extending a given distance into each arm formed by said notched cylinder head portion from the same rotational direction and a given distance from the rotational axis of said cylinder head; first fluid conduits extending from the inner end portion of said cylinders through the end wall of the notched portion of said cylinder head; a resilient piston cup in each cylinder; a piston, having lubricant recesses in its peripheral surface and extending along a major portion of its length, in each said cylinder and fitting closely against the side wall of said cylinder throughout a major portion of the length of the piston within said cylinder, the inner end of said piston fitting against the outer side of said piston cup across the entire cross-section of said cylinder, and a portion of each said piston extending from each said cylinder a distance equal to the extension of each of the other pistons; a driver closely but slidably fitted to the periphery of said cylindrical cylinder head, abutting at one end against said outwardly turned flange, extending to the end of the notched section of said cylinder head, and at least a portion of the inner periphery of said driver extending into the notched portion of said cylinder head so as to press in the direction of rotation against the extended end portion of each said piston; a pressure head rigidly affixed to the notched end of said cylinder head and extending outwardly so as to slidably retain said driver between it and said outwardly turned flange of said cylinder head; second fluid conduits extending through said pressure head from said first fluid conduits in said cylinder head to a common conduit in said pressure head; a pressure indicator closing said common conduit; and hydraulic fluid filling said common conduit, second fluid conduits, first fluid conduits, and said cylinders downstream of said piston cup.

2,593,001
PROCESS FOR MANUFACTURE OF A DIPHENYL SULFONE
Harry Bender and Harold M. Pitt, Torrance, Calif., assignors to Stauffer Chemical Company, a corporation of California
Application January 31, 1950, Serial No. 141,566
10 Claims. (Cl. 260—607)



1. A process for the manufacture of para-monochlorodiphenyl sulfone comprising passing

liquid benzene sulfonic acid continuously into a reaction zone, passing anhydrous monochlorobenzene vapor continuously into said reaction zone counter-current to the benzene sulfonic acid, the volume of monochlorobenzene vapor introduced into said zone being at least twice that volume required stoichiometrically to react with said benzene sulfonic acid to form para-monochlorodiphenyl sulfone, removing unreacted monochlorobenzene vapor from said zone to remove water from said zone, removing unreacted benzene sulfonic acid containing para-monochlorodiphenyl sulfone from said zone and recovering the para-monochlorodiphenyl sulfone.

2,593,002
BUST FORM
Ella H. Bernhardt, New York, N. Y.
Application October 27, 1950, Serial No. 192,389
13 Claims. (Cl. 2—267)



1. A breast form comprising a flexible liquid-retaining cell having a liquid filler therein, a flexible envelope enclosing and spaced from said cell, and a quantity of liquid absorbent material within said envelope and without said cell for absorbing liquid leakage of said filler from said cell.

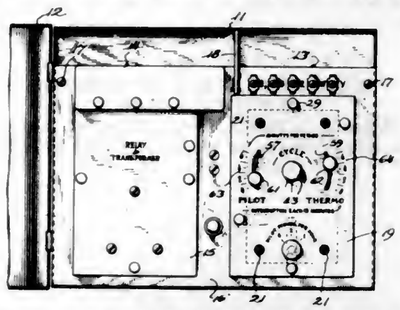
2,593,003
SUPPORT FOR COOKING UTENSILS
Herbert J. Block, Chicago, Ill.
Application March 8, 1946, Serial No. 652,989
9 Claims. (Cl. 126—215)



1. A device for supporting a cooking vessel comprising an annular hollow base having a cover with a large central opening therein, and completely open at the bottom, a hollow frusto-conical member in said base secured to the lower end of said base, an apertured dome-like deflector supported on said member and having its upper part flush with the cover of said base, said deflector having its lower end slightly spaced above the upper end of said member to provide a circular gap, and a horizontal baffle plate in said deflector and secured thereto to occupy a position below said dome-like deflector and above the circular gap.

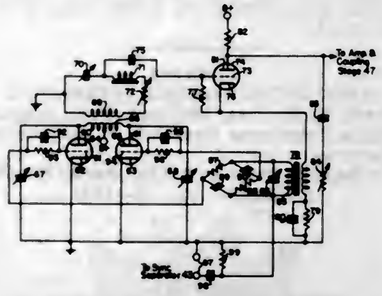
2,593,004
FIRE CONTROL PILOT
Charles Richard Bowland and Linville H. Crick, Jr., Spring Valley, Ill., assignors to Sampsel Time Control, Inc., Spring Valley, Ill., a corporation of Illinois
Application October 30, 1947, Serial No. 783,188
4 Claims. (Cl. 200—29)

1. A timing apparatus for fire piloting control which comprises in combination, a rotary shaft, a journal support for said shaft having a concentric sleeve portion, members pivotally rotatable upon said sleeve portion and each having an offset contact spring mount and a perpendicularly extending arm, a face panel having a central opening in concentric alignment with said rotary shaft and arcuate slots through which protrude for limited movement said member extending arms, a distributor disc journalled for rotation in said face panel central opening, a slip



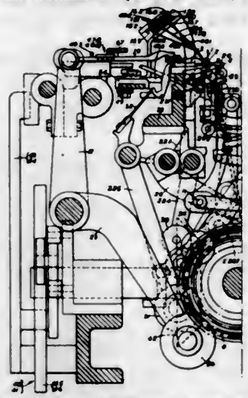
clutch for coupling said disc to said rotary shaft, said disc carrying a planar alignment of conducting segments on one of its faces divided quadrantally by intersecting radial channel cuts, piloting control contact springs carried by said offset mounts whereby to be rotatable in accordance with the regulation of said perpendicularly extending arms, and stationary contact springs companion to said mount carried springs for establishing variable bridgement intervals by said disc conducting segments.

2,593,005
SYNCHRONIZED OSCILLATOR CIRCUIT
Jack E. Bridges, Cicero, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application November 10, 1949, Serial No. 126,600
6 Claims. (Cl. 315—26)



1. A push-pull oscillator circuit to be synchronized with received synchronizing pulses comprising: a pair of electron-discharge devices having individual output electrodes and input electrodes; a first network coupled to said output electrodes of said devices for deriving a push-pull output signal having a phase determined by the relative biases of said devices and for imparting a phase-shift to said output signal that is a function of the frequency of said oscillator; a phase-splitting network coupled to said first network for producing two distinct feed-back signals having a phase relation with respect to each other that is substantially independent of the frequency of said oscillator; a biasing network coupled to said phase-splitting network for applying one of said feed-back signals to the input electrodes of one of said devices and the other of said feed-back signals to the input electrodes of the other of said devices to sustain oscillation in said oscillator at a frequency dependent on the phase of said output signal; and means for supplying said synchronizing pulses to said biasing network for push-push application to said input electrodes of said devices superposed on said two feed-back signals to control the relative biases of said devices in accordance with the phase relation between said synchronizing pulses and said feed-back signals.

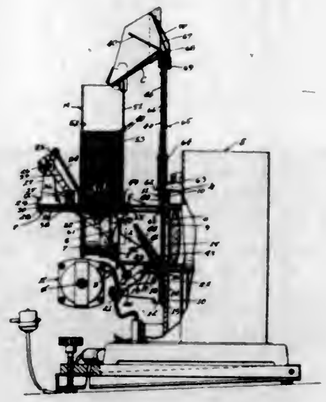
2,593,006
STRAIGHT BAR KNITTING MACHINE FOR PRODUCTION OF RUN-RESISTANT KNITTED FABRIC
Leonard Brown and John Edward Lynam, Mapperley, England, assignors to William Cotton Limited, Leicestershire, England
Application August 12, 1948, Serial No. 43,834
In Great Britain August 22, 1947
13 Claims. (Cl. 66—82)



1. In a straight bar knitting machine organized for the production of run-resistant fabric of the type comprising successive ground courses of plain loops whereof the loops of each ground course are drawn through the plain loops of the preceding course, and associated courses of locking loops which lock the plain loops, the locking loops being passed through and closely around the plain loops so that the legs of the plain loops are encircled by coils of the locking loops, the said machine comprising a line of knitting needles, thread carriers for feeding thread thereto, and mechanism for imparting to the needles motions for the production of successive courses of plain loops and other motions for the production of the locking loops; double purpose cams each of which has a portion of its periphery shaped to produce the sequence of motions necessary for the production of a course of plain loops and another portion of its periphery shaped to produce the sequence of motions necessary for the production of a course of locking loops that lock the last said course of plain loops, and a follower for each double-purpose cam.

2,593,007
SLIDE FEEDING MECHANISM FOR STILL PICTURE PROJECTION MACHINES
Clarence John Cadwell, Carpinteria, and Frank M. Adamson, Los Angeles, Calif.
Application February 9, 1949, Serial No. 75,408
5 Claims. (Cl. 88—28)

1. In a still picture projection machine, including a light housing having a wall provided with a light window, a picture slide changing mechanism comprising a box secured to said wall over said window and formed to have light pass therethrough from the window, a lens tube at the opposite side of the box from the window, the box having a top opening, a picture slide frame surrounding the window, a pair of arms within the box and pivoted to swing toward and away from the frame on a common horizontal axis extending across the box at the bottom of the window, said arms being at opposite sides of the frame and having a vertical slide holding position and a slide receiving position in which they are inclined away from the window below the box top



opening, a reciprocating shutter plate for covering the frame, means for moving said plate, a slide magazine for supporting a vertical stack of horizontal slides at one side of the box top opening, pusher means for moving a slide from the bottom of the stack for discharge downwardly through the box top opening onto said arms when the latter are in slide receiving position, a vertical slide guide means extending up from the top of the frame, said shutter plate being positioned to effect the shifting of a slide from the frame into said guide means when moving to frame covering position, and means at the top of said guide means for turning an elevated slide down from a vertical position into the magazine in a horizontal position.

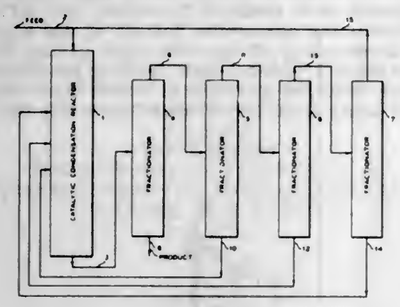
2,593,008
FOAMED GYPSUM COMPOSITION
Fred L. Chappell, Jr., Kalamazoo, Mich., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 13, 1950, Serial No. 155,790
12 Claims. (Cl. 106—88)

1. A foaming gypsum composition comprising an aqueous suspension of calcined gypsum containing a fraction of 1% of a blend of an alkali metal soap of a partially gasoline-insoluble pine wood resin and a water-soluble lower alcohol having 3 to 6 carbon atoms, having a ratio of hydroxyl groups to carbon atoms up to but not in excess of 1 hydroxyl group per 3 carbon atoms, and having a total oxygen content below 40%.

2,593,009
CONDENSING LOWER ALCOHOLS TO HIGHER ALCOHOLS

Alfred Clark and Francis E. Condon, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

Application October 31, 1949, Serial No. 124,664
1 Claim. (Cl. 260—642)



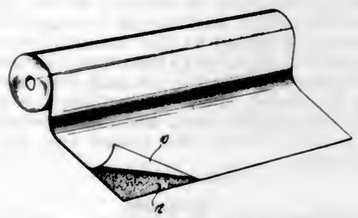
A process for the chemical condensation of a condensible alcohol to an alcohol of a desired number of carbon atoms which comprises in combination the steps of initiating and continuing a condensation of an alcohol in a condensing zone under condensing conditions for a time period sufficient to cause condensation of a portion of said alcohol to said alcohol of said desired number of carbon atoms; passing alcohol, which has been condensed to said desired condensed alcohol of said desired number of carbon atoms, partially condensed alcohol having a lesser number of carbon atoms than said desired alcohol and any uncondensed alcohol to an alcohol separating zone; in said separating zone separating said alcohol having said desired number of carbon atoms from the remaining alcohols as a product of the process; further separating in said separating zone uncondensed alcohol from the now remaining alcohols; recycling said uncondensed alcohol to said condensing zone for treatment as before; separately returning the then remaining partially condensed alcohol of said lesser number of carbon atoms to said condensing zone and therein resubmitting it to said condensing conditions for a time period which is of shorter duration than the time period that the uncondensed alcohol remained in said condensing zone to form said alcohol having said desired number of carbon atoms, the said time period of shorter duration being inversely proportional to the extent to which said alcohol of a lesser number of carbon atoms has been condensed.

2,593,010
ASBESTOS ROOFING FELT AND METHOD OF MANUFACTURE

George W. Clarvoe, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application December 4, 1948, Serial No. 63,470
9 Claims. (Cl. 154—142)

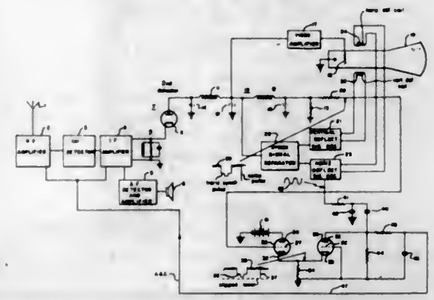
7. In manufacturing a multi-ply asbestos roofing felt the steps comprising, saturating base plies with an adhesive bituminous waterproofing saturant, saturating a surface ply of comparatively white porous asbestos paper with stearic acid diluted with a volatile liquid, drying the thus saturated surface ply to drive off volatiles, applying the dry surface ply as a facing to the saturated base plies and consolidating under pressure to develop adhesion, and moistening the facing sheet of the thus plied felt with an aqueous alcohol solution prior to stretching the sheet in forming a multiple ply roll thereof.



2,593,011
KEYED AUTOMATIC GAIN CONTROL

Albert Cotsworth, III, Oak Park, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois

Application July 17, 1948, Serial No. 39,368
2 Claims. (Cl. 178—7.3)

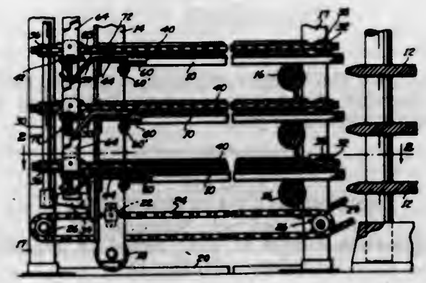


2. A television receiver for utilizing a composite television signal including video-signal components and recurring synchronizing-signal components comprising: an image-reproducing device and associated scanning elements; a sweep generator coupled to said scanning elements and including means for developing a sinusoidal signal having a frequency corresponding to the repetition frequency of said synchronizing-signal components; a synchronizing circuit for supplying said synchronizing-signal components to said sweep generator to control the operation thereof; a gain control system including a normally nonconductive electron-discharge device having an anode, a cathode connected to a point of reference potential through a resistive impedance, and a control electrode directly connected to said point of reference potential; means for coupling said anode to said generator to vary the potential of said anode with respect to said reference potential level in accordance with said sinusoidal signal to tend to make said discharge device conductive in time coincidence with said synchronizing-signal components; an amplitude limiter for suppressing components of said television signal exceeding the amplitude of said synchronizing-signal components thereof, said limiter including an electron-discharge device having an anode connected to a source of unidirectional potential, a control electrode for receiving said television signal with said synchronizing-signal components of negative polarity, and a cathode connected to the junction of said first-mentioned cathode and said resistive impedance so that said synchronizing-signal components augment the effect of the anode potential variations of said first-mentioned discharge device and render said device conductive during the peak portion of said synchronizing-signal components; a filter circuit coupled to said anode and cathode of said first-mentioned discharge device for producing a control potential having an amplitude proportional to the amplitude of said synchronizing-signal components; and means for utilizing said control potential to control the gain of said receiver.

2,593,012
PRESS LOADING MECHANISM

Edward L. Croston, Dash Point, Wash., assignor to American Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington

Application May 14, 1949, Serial No. 93,253
8 Claims. (Cl. 214—1)



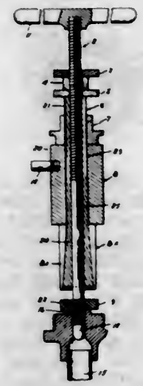
6. In tray type loading mechanism for transferring sheets to receiving surfaces, a linearly reciprocable sheet metal tray having downwardly bent portions at a plurality of spaced locations, forming downwardly projecting ridges extending parallel to the direction of tray reciprocation, a stiffener member extending along and connected to an edge of said tray perpendicular to said ridges, and a plurality of channel tray-supporting shoes slidable on the receiving surface and each receiving between its flanges one of such ridges, and having one end removably supported by said stiffener member and its opposite end removably connected to the opposite end of the tray.

2,593,013
BALL COCK RESEATING TOOL

Andrew William Delekto, Auburn, Maine

Application November 13, 1950, Serial No. 195,436
5 Claims. (Cl. 90—12.5)

1. A ball cock reseating tool arranged to reseat a ball cock valve seat in operative position, said tool comprising a ball cock valve seat cutter, a spindle on which said cutter is mounted, a guide pilot threadedly secured to said spindle below said cutter and removably holding said cutter on said spindle, said guide pilot cooperating with the water opening through the valve seat, means for rotating said spindle to thereby rotate said cutter over the valve seat in a reseating operation, and means cooperating with the inside walls of the ball cock cylinder for aligning and holding said tool in the valve reseating position, said means comprising a collet through which said spindle extends, said collet including expandible means arranged to expand within and grip the inside walls of the ball cock cylinder, said expanding means comprising a plurality of flexible externally, smoothly curved collet fingers integral with and depending from said collet, a taper

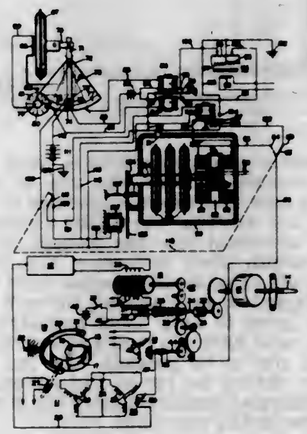


sleeve within said collet fingers about said spindle, and nut means threaded on said taper sleeve above said collet for drawing said taper sleeve upwardly in said collet against said collet fingers.

2,593,014
ALTITUDE CONTROL SYSTEM

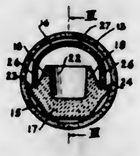
Richard L. Divoll, Maywood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Application April 26, 1946, Serial No. 665,301
23 Claims. (Cl. 244—77)



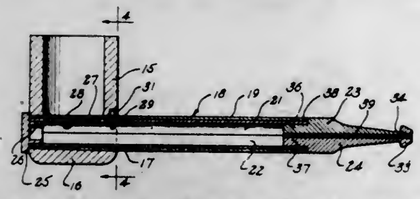
1. An automatic altitude selector mechanism for an aircraft having a movable elevator surface thereon, comprising a signal source for actuating said elevator to change craft flight to a selected altitude, settable means which, when operated, connects said signal source to said elevator to change craft elevation to a selected altitude, means connected for operation by said settable means for disconnecting said signal source from said elevator when the craft attains the selected altitude, and means rendered effective when said selected altitude is reached for maintaining said aircraft at said selected altitude.

2,593,015
COMBUSTION BOAT AND SHIELD
George M. Dreher, Pittsburgh, Pa.
Application April 14, 1948, Serial No. 20,934
3 Claims. (Cl. 263—48)



1. For use in a combustion analysis apparatus including a combustion tube, a combustion boat and a shield over the boat which boat and shield are received in said tube, said boat having upstanding sides, enclosing a well, a seat along said sides, said shield having depending flanges and extending from a seat on one side to a seat on the other side and having a portion which extends over and is spaced from the top of the sides of the boat, the boat and shield being so shaped as to be received in the tube and so proportioned that the flanges of the shield will not touch the top of the boat sides, nor will the bottom of the flanges extend above the top of the sides of the boat when the shield is in any operative position relative to the boat.

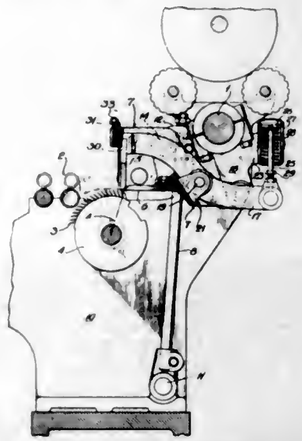
2,593,016
SANITARY SMOKING PIPE
Albert Dressler, Jr., and Arthur E. Fowler, Elmira, N. Y.
Application June 21, 1948, Serial No. 34,164
1 Claim. (Cl. 131—225)



A smoking pipe comprising a bowl having a passage extending from one side to the other thereof, a pipe stem assembly formed of separable internal and external parts, the assembly being adapted to extend into the passage in the pipe bowl, a mouth piece formed of separable parts and adapted to be secured to the stem assembly, a pin adapted to be extended through the stem assembly parts to keep them angularly aligned, said pipe bowl having a recess extending radially from one end of its passage, said pin having a projection fitting the recess and adapted to prevent the angular displacement of the stem assembly relative to the pipe bowl.

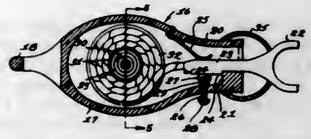
2,593,017
COMBER
John S. Dudley, Douglas, and Carl D. Brandt, Whitinsville, Mass., assignors to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application November 30, 1946, Serial No. 713,304
6 Claims. (Cl. 19—120)

5. In a comber including a comb cylinder and a reciprocating nipper frame and a cushion plate carried thereby, the combination of a front support for the frame comprising a pivoted member movable about a center located on one side of the reciprocating path of movement of the cushion plate of the nipper frame, and a rear



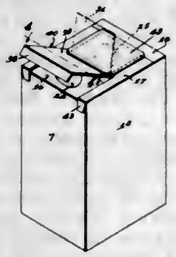
support for the frame comprising a pivoted member movable about a fixed center located on the opposite side of said path.

2,593,018
ANTISKID CHAIN COUPLING
John J. Fendrock, Simpson, Pa.
Application August 12, 1949, Serial No. 109,921
2 Claims. (Cl. 24—115)



1. An expansion coupling for securing together the ends of the inner chain of an anti-skid chain comprising an elongated housing having one end secured to one end of said inner chain and having the other end open, an internal shoulder on said housing adjacent said open end thereof, a reel mounted within said housing for rotation about an axis transverse of said housing, a cable having one end secured to and wound around said reel, spring means operatively connected to said reel for loading said reel for winding and unwinding said cable therearound, a rod having one end extending into the open end of said housing and secured to the other end of said cable, means on the other end of said rod for securing said other end to the other end of said inner chain, an abutment on said rod intermediate its ends and engageable with said shoulder when said one end of said rod extends into the open end of said housing for locking said reel in its wound position, a leaf spring positioned within said housing adjacent the other end thereof and having one end secured to said housing and having the other end engageable with said rod for urging the abutment against said shoulder, and hand actuable means exteriorly of said housing and engageable with said abutment for releasing said abutment from locking engagement with said shoulder to thereby allow unwinding of said cable against the action of said spring means.

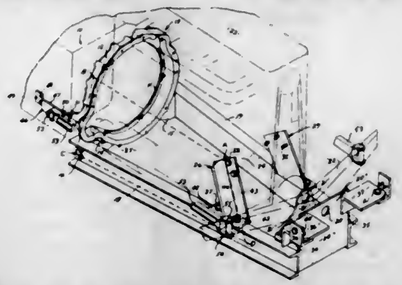
2,593,019
PAPER CONTAINER WITH DISPENSING AND FILLING OPENINGS FOR LIQUIDS
Rudolf F. Glaser, Maumee, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application March 28, 1947, Serial No. 737,783
4 Claims. (Cl. 229—17)



1. A blank of foldable sheet material shaped and provided with fold lines adapting it to be folded to form a container having a rectangular body, said blank having top forming flaps which, when the blank has been folded to form the body of the container, are foldable inwardly to form the top of the container, said flaps including a side flap at one side of said body, a second side flap at the opposite side of said body, an end flap intermediate said side flaps and foldable inwardly therebetween while the side flaps are open, said end flap having a section forming a plug removable to provide a pour opening, one said side flap having a lid section and formed with weakened lines along the sides of said section and spaced from the side edges of the flap to provide marginal strip portions of the flap, a layer of adhesive covering said marginal strip portions in position to adhere them to the said end flap when the flaps are folded, said lid section having a patch of adhesive in position to register with said removable plug when the flaps are folded and adapted to adhere to said plug, said lid section being of a size and in position to cover the pour opening and a portion of the said end flap entirely surrounding the said opening, the flap with said lid section having an opening therethrough spaced from said lid section, the other side flap being folded over the first side flap and having a lid section positioned to register with the first mentioned lid section and provided with adhesive for adhering said lid sections together to provide a two-ply lid, said second side flap having a second lid positioned to overlie said second mentioned opening when the flaps are folded and movable to and from position for closing said second opening independently of the first mentioned lid.

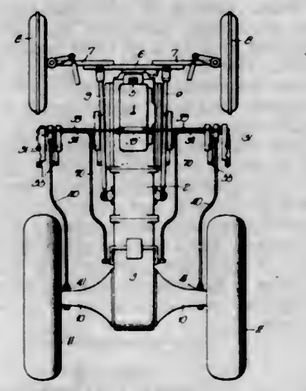
2,593,020
FLYWHEEL HOUSING
Olaf E. Glover, Milford, Ill.
Application March 22, 1950, Serial No. 151,130
5 Claims. (Cl. 74—606)

1. An engine flywheel housing for connecting the rear end of an engine to the forward end of a transmission housing in a farm tractor comprising a substantially cylindrical body portion, an outwardly extending flange on the forward end of the cylindrical body having a planar face for abutting attachment with the rear of the engine, and an inwardly extending flange on the rear end of the cylindrical body having a planar face with the inner peripherial portion of which adapted for abutting attachment to the front of the transmission housing, said planar faces on the flanged ends being parallel to each other and perpendicular to the longitudinal axis of the cylindrical body portion, said cylindrical body portion having a plurality of circumferentially spaced apertures extending from an outer peripherial area portion of the rear face to the front face thereof and parallel to the longitudinal axis of the cylindrical body portion for receiving machine screws to secure the flywheel



housing to the rear end of the engine, and said rear flanged planar face in the area of said inner peripherial area portion thereof having a plurality of circumferentially spaced threaded apertures extending therein parallel to the longitudinal axis of the cylindrical body for receiving machine screws for attaching the forward end of the transmission housing to said flywheel housing.

2,593,021
TRACTOR CULTIVATOR
John S. Goodell, Darlington, Wis.
Application September 30, 1949, Serial No. 118,853
6 Claims. (Cl. 97—47)



6. A cultivator attachment for mounting upon a tractor provided with an engine crankcase, transmission housing and rear axle housing, comprising: base plates secured alongside the crankcase; rotatable support bars carried by and extending laterally from said base plates; inverted archlike sections included in said support bars and adapted to arch over corn rows disposed on either side of the engine; tool support stocks secured to said support bars on opposite sides of said archlike sections; vertical brace bars secured at one end adjacent the outer end of the rotatable support bars and at the other end to the engine; thrust bars engaging said rotatable support bars and extending rearwardly therefrom and secured to the rear axle housing; and earth working tools fixed upon said tool supporting stocks.

2,593,022

CONCRETE REINFORCEMENT ANCHORAGE

Armand Charles Grivel and Alan H. Pilling, New York, N. Y., assignors to Richmond Screw Anchor Co., Inc., New York, N. Y., a corporation of New York

Application November 15, 1948, Serial No. 60,088
2 Claims. (Cl. 72—105)



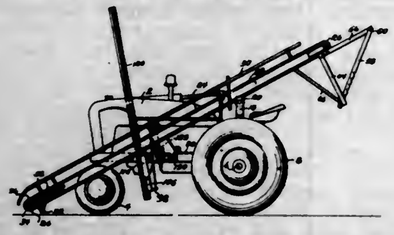
1. A concrete anchorage, comprising a pair of substantially U-shaped rod members formed at one end with a loop and having legs extending divergently therefrom, a plurality of spaced transverse cross rods located between and secured to the legs of the two U-shaped members adjacent to the ends of the legs thereof and holding the two U-shaped member spaced apart for a distance equal to the diameter of the cross rods, said cross rods being disposed substantially parallel to one another and spaced apart for distances at least equal to their diameters, the cross rods being welded to opposite sides of the legs of the U-shaped members to thereby hold the legs of said members in their spaced relation and to stiffen the leg portions of the U-shaped rod members adjacent to the end portions of the legs of the same, the ends of the cross rods projecting laterally beyond the legs of the U-shaped members, the legs of one of the U-shaped members being disposed in parallelism to the legs of the other U-shaped member for at least one-half of the length of said legs, the loop portions of the U-shaped members being spaced apart for a distance greater than the diameter of the cross rods, and an anchorage secured in the loops, said anchorage comprising a section of rod having its longitudinal axis extending transversely to the cross rods.

2,593,023

BALE LOADER

Merlin R. Haase, Berlin, Wis.

Application July 22, 1947, Serial No. 762,606
2 Claims. (Cl. 198—233)



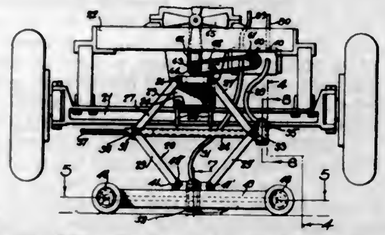
2. In a bale loader, the combination with a tractor having a rear axle and a power take-off, of a plurality of posts projecting upwardly from said rear axle, a horizontally disposed shaft supported by said posts, a frame pivotally connected to said shaft, an endless conveyor carried by said frame, guide rails extending longitudinally along said conveyor, shoes arranged on the front of said frame, a chain trained over said frame, means for adjusting the tension of said chain, a transmission device operatively connected to said power take-off for controlling the direction of rotation of said shaft and said chain, a platform adjustably connected to the rear end of said frame, a clutch and sheave mechanism operatively connected to the power take-off arranged rearwardly of the tractor, said mechanism including a sheave, a cable trained over said sheave, a vertically disposed standard extending upwardly from the tractor, a bracket slidably mounted in said standard and supporting said conveyor, said cable having its front end connected to said bracket for causing pivotal movement of said conveyor, and hydraulic means for adjusting the position of said conveyor, said hydraulic means including cylinders arranged on the sides of the tractor and adapted to be connected to a source of hydraulic fluid, pistons slidably arranged in said cylinders, and pulleys mounted on the upper ends of said pistons and having said cables trained thereover.

2,593,024

VEHICLE ATTACHED PARKING DEVICE

Tilden F. Hall and Floyd C. Hall, Denver, Colo.

Application August 25, 1947, Serial No. 770,466
1 Claim. (Cl. 180—1)



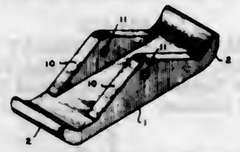
In a parking device for use with the power transmission of a motor vehicle, the improvement comprising an elongated box like casing, a first shaft journalled in said casing longitudinally thereof, gear members fixed on opposite ends of said shaft and within said casing, stub axles journalled in opposite ends of the casing, gears fixed on the stub axles within the casing meshing with the gears on the first shaft, ground engaging wheels on the outer ends of the stub axles, a worm wheel fixed to the first shaft centrally thereof, a first flexible shaft connected to the power transmission, a worm fixed on said first flexible shaft and said worm meshing with said worm wheel for the driving of the ground engaging wheels, a lower plate fixed to the box like casing centrally thereof, a pair of arms connected at their lower ends to the opposite ends of the plate, a travelling nut pivotally connected to one arm at the upper end thereof, a gear box connected to the other arm at the upper end thereof and having gears therein, a second pair of arms connected at their lower ends respectively to said travelling nut and gear box, an upper plate pivotally connected to each upper end of said second pair of arms and fixed to the motor vehicle above and in line with the first plate, a sleeve connected to said gear box, a screw rotatably mounted in the sleeve and operatively connected at one end to one of the gears in said gear box and at the other end threadedly engaging said travelling nut, and a second flexible shaft connected at one end to said transmission and at the other end to the other gear in said gear box for the operation of said screw for the raising and lowering of said motor vehicle with relation to said box like casing.

2,593,025

SNOWPLOW SHOE

Charles A. Hanson and Albert L. Hanson, Munising, Mich.

Application April 1, 1947, Serial No. 738,550
1 Claim. (Cl. 280—28)



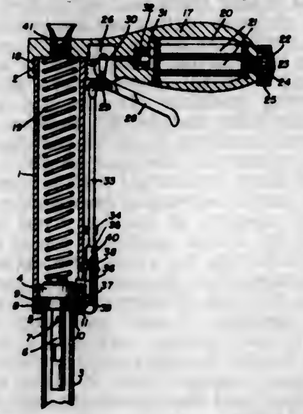
A snow plow shoe having upwardly curved opposite end portions and spaced integral upstanding projections on its top surface extending substantially the length thereof and providing longitudinal reinforcement therefor, said projections being provided with opposed apertures for attaching the shoe by a single connecting bolt, the bottom portion of said shoe being provided with a relatively hard brittle wear-resistant surface with the upper portion of the shoe relatively soft and tough and strengthening the relatively hard brittle bottom portion against breakage, whereby increased wear may be obtained.

2,593,026

SECTIONAL CANE OR WALKING STICK

General A. Hawkins, Dallas, Tex.

Application December 16, 1946, Serial No. 716,527
2 Claims. (Cl. 135—47)



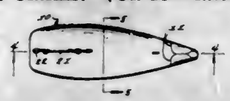
1. A collapsible sectional walking stick or cane including an upper hollow section, a central hollow section telescopically received therein and a solid lower section fixed to the lower end of said central section, latch means for retaining said sections in an extended relationship a handle secured to the outer end of said upper section, an air whistle supported in the upper end of said central section and operated by reciprocation of the central section in the upper section, said central section being formed with a plurality of air discharge ports through which said audible signal may be heard, a plunger on the upper end of said air whistle, a coil spring between said plunger and said handle disposed in said upper section, and a trigger for releasing said latch mechanism for permitting the operation of said audible signal.

2,593,027

FISH LURE

Ilmari Heino, Ferndale, Mich.

Application May 24, 1949, Serial No. 95,013
2 Claims. (Cl. 43—42.06)



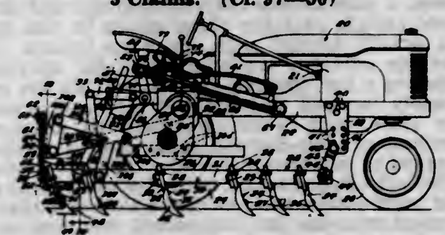
1. A fish lure comprising a body of arcuate form in longitudinal cross section, the sides of said body sloping inwardly from its mid-portion to one end thereof and sloping inwardly from its mid-portion to and terminating in a blunt end at the other end thereof, a first upstanding tab positioned on one side of said body adjacent said one end and having its lower end secured to said body, a second upstanding tab positioned on the other side of said body in confronting aligned relation with respect to said first tab and having its lower end secured to said body, the upper ends of said tabs being bent inwardly so as to abut against each other and form a funnel for creating a jet action at said one end when the lure is drawn through the water, a hook positioned adjacent to and spaced from said one end of said body and dependingly supported therefrom, and means positioned on the top of said body adjacent to and spaced from said blunt end thereof for attaching a fish line thereto.

2,593,028

TRACTOR CULTIVATOR

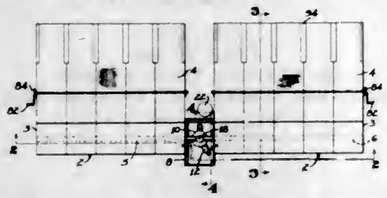
Wallace H. Hendrick, Cameron, N. C.

Application October 25, 1949, Serial No. 123,467
3 Claims. (Cl. 97—50)



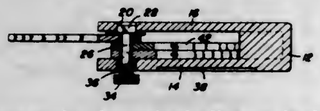
3. The combination with a tractor including side members, a cylinder pivotally connected to one of said side members and adapted to be connected to a source of hydraulic fluid, a rod slidably arranged in said cylinder, a manually operable valve for controlling the flow of hydraulic fluid to and from said cylinder, of a cultivator disposed below said tractor, said cultivator including a frame, said frame comprising a pair of sections, each of said sections comprising an arm, a brace arranged angularly with respect to said arm and having its front end secured thereto, a bar secured to said brace and to said arm, a plurality of plows dependingly carried by said arm, a rod pivotally supported on said bar, a handle connected to said rod for pivoting the latter, sweep shovels carried by said rod and mounted for movement into and out of engagement with the ground, a plate secured to each of said side members, a link pivotally connecting said arm to said plate, and means connecting said sections to said hydraulically operated rods.

2,593,029
COMBINED BROODER AND RUNS
Harley Holdredge, Valley Center, Calif.
Application March 28, 1946, Serial No. 657,785
4 Claims. (Cl. 119—34)



1. A device of the class described, comprising: supporting means; a row of brooding compartments carried thereby; runs in side by side relationship carried thereby and extending from said brooding compartments; feed troughs slidable between said runs; and overhead watering means between said feed troughs and said brooding compartments, said watering means including a roller pulley extending transversely over said runs and rotatably supported thereby and a dew-drop pipe suspended from said roller pulley.

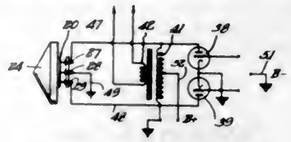
2,593,030
KEY CASE
Ragnar W. Holmgren, Flint, Mich.
Application December 29, 1949, Serial No. 135,708
4 Claims. (Cl. 70—456)



3. A case for keys including a body member generally U-shaped in cross-section and having a back and a pair of spaced parallel lateral plates, a push pin slidably and transversely mounted on said member and extending through one of said plates, a push button head on said pin and disposed outside said one plate, means to bias the pin axially toward said one plate, means on said pin adjacent the other plate for laterally engaging a key, whereby keys on said pin are releasably jammed between said means and said one plate, said means including an enlarged terminal of non-circular shape and a washer engaged by said terminal, said other plate having a similarly shaped socket to receive said terminal, said push button head having a threaded shank screwed into said pin, the socket retaining said pin from rotation while allowing axial movement of the pin and adjustment of spring pressure and facilitating assembly of the key case.

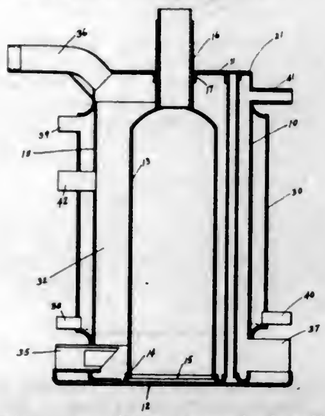
2,593,031
LOUD-SPEAKER
Glenn N. Howatt, Metuchen, N. J., assignor to Gulton Mfg. Corp., Metuchen, N. J., a corporation of New Jersey
Application May 1, 1948, Serial No. 24,663
3 Claims. (Cl. 179—116)

1. In a loud speaker, a piezoelectric element including two flat titanate ceramic members secured together face to face and having a common electrode therebetween and each having an outer uncommon electrode, means for supporting the element at its extremities, a speaker cone supported at its extremities, a driving rod secured to the element intermediate its ends and having driving relation with the apex of the speaker cone, signal leads secured to the uncommon electrodes for direct coupling to an amplifier, and a signal lead secured to the common electrode for



connection to ground to maintain the uncommon electrodes positive with respect to the common electrode.

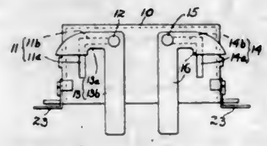
2,593,032
VERTICAL FLUE DOWNDRAFT BOILER
Jesse C. Johnson, Oakland, Calif.
Application August 3, 1946, Serial No. 688,219
4 Claims. (Cl. 122—156)



1. A heater comprising a vertical cylindrical casing as an outer shell, a combustion chamber within and spaced from said outer shell and delimited by an inner cylindrical shell shorter than the outer shell and having a closed, apertured top and an open bottom, a top head for said outer shell having a central opening and a plurality of tube-receiving openings therein and a bottom head for said outer shell having a central opening therein approximately equal to the diameter of said inner, cylindrical shell and in which the bottom of the inner, cylindrical shell is received and secured, a conduit extending downwardly through the central opening of the top head and connected into the closed, apertured top of the inner shell for conducting hot gases from an associated burner downwardly through said combustion chamber, a plurality of tubes secured in the tube-receiving openings of said top head and terminating in said bottom head and a refractory lined base having its upper surface shaped to deflect said gases laterally from the open bottom of the inner shell and then upwardly into the lower ends of said tubes.

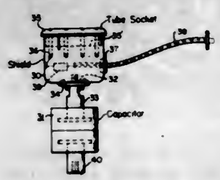
2,593,033
RETAINING MEANS FOR ELECTRICAL OUTLET BOXES
Frederick C. Johnson, Michigan City, Ind.
Application June 27, 1950, Serial No. 170,633
3 Claims. (Cl. 248—27)

1. Means for securing an electrical outlet box in a mounting opening through a support, including in combination a sheet metal outlet box having top, bottom, end and back walls and open at its front side, said top and bottom walls having similar angle slots therethrough, each of said slots having portions at substantially a right angle to each other, one of said portions of each slot being substantially parallel with and adjacent the back wall of the box and the other portion of each of said slots being substantially parallel with and adjacent an end wall of the box, an angular retaining member of thin sheet metal for each of said slots, each of said retaining members having two portions at substantially a right angle to each other, and a headed stud in each of said slots and rigidly secured to the mid-portion of a corresponding one of said retaining members, each of said retaining members in its



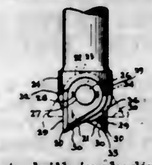
rearmost position having one end portion projecting forwardly substantially in front of the front side of said box and having two limiting positions laterally, one of said lateral positions of each of said retaining members placing the outer end of the laterally extending portion of said member within the end of the box wall supporting said retaining member and the other lateral position of said retaining member projecting said laterally extending portion substantially beyond the adjacent end wall of the box for engagement with the rear surface of the support containing said mounting opening, said retaining members in their forward positions holding said box in mounted position in said opening.

2,593,034
SUPPORTING STRUCTURE FOR ELECTRON DISCHARGE DEVICES
Nicholas Kafka, Bellwood, Ill., assignor to Zenith Radio Corporation, a corporation of Illinois
Application October 28, 1949, Serial No. 124,170
6 Claims. (Cl. 175—298)



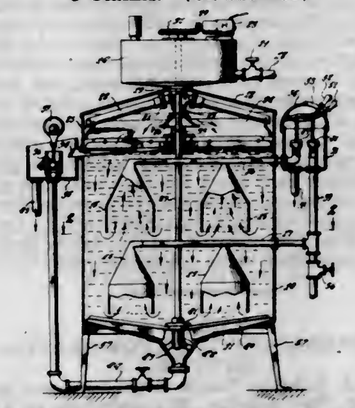
1. A structure for supporting an electron-discharge device on a conductive support and for insulating said device from said support, said device having externally extending pins connected to electrodes contained in said device, said structure comprising: a solid unitary capacitor assembly including, a housing, a pair of electrodes within said housing, a first conductive member connected to one of said capacitor electrodes and extending through said housing for mechanical and electrical connection to said support, and a second conductive member connected to the other of said capacitor electrodes and extending through said housing; a socket for supporting said discharge device, said socket including a plurality of terminal members for engaging said pins and for connecting at least one of said pins to said second conductive member; and means for mechanically securing said socket to said second conductive member.

2,593,035
DRILL
Victor S. Karbowski, Lima, Peru
Application March 18, 1949, Serial No. 82,165
In Canada January 8, 1949
4 Claims. (Cl. 255—76)



1. An impact drill including a shank, a pivot passing through the shank transversely of its length, circular arc faces on the shank struck from the pivot center and forming V tracks, flat disc cutter blade members each having a circular arc V-shaped bearing back portion adapted to fit and slide on a V track, and a V-shaped cutting portion formed by portions of the blade extending on a tangent from the V-shaped circular arc bearing portion and meeting at a point, so that the V-shaped edge extends completely around the blade.

2,593,036
SUGAR CANE JUICE CLARIFIER
Edward G. Koch, Bayou Goula, La.
Application March 29, 1950, Serial No. 152,551
5 Claims. (Cl. 210—55)



1. An apparatus for separating finely divided particles from liquids comprising an upright tank having a roof, said roof having an opening therethrough for entrance into the tank of liquids to be processed, a distributor fitting including a hollow housing having aligned top and bottom openings, said housing being mounted under said roof and extending downward into the top of the tank with said housing openings in alignment with said roof opening, a vertical shaft in said tank having a diameter smaller than the diameters of said aligned openings thereby providing annular passages around said shaft, the diameter of said bottom opening being only relatively slightly larger than the diameter of said shaft, said housing further having a plurality of radial feed pipes extending therefrom and terminating close to but spaced from the wall of the tank near the top thereof, spaced clarifiers in said tank, said clarifiers comprising inverted cup-like housings having openings through the tops thereof, pipes connected to said clarifier openings and extending laterally through said tank wall for discharge of clarified liquid from the tank, said shaft

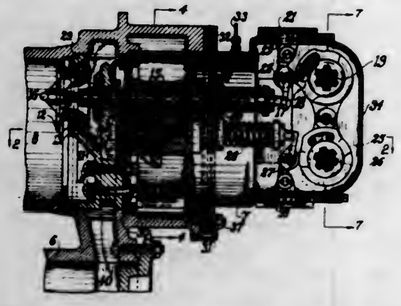
having a conical collar thereon under but close to said bottom opening of said distributor housing for spreading liquid which has entered the tank through said bottom opening.

2,593,037

VALVE CHEST INSERT FOR PRESSURE FLUID OPERATED RECIPROCATING ENGINES

John J. Kupka, Gladstone, N. J., assignor to Jupiter Steam Appliances, Inc., New York, N. Y., a corporation of New York

Application February 13, 1947, Serial No. 728,288
5 Claims. (Cl. 121—185)



1. In reciprocating steam engine of the locomotive type in combination with power cylinders constructed to cooperate with piston valves as steam distributing means, a removable steam chest insert adapted to fit in recesses within the piston valve chest and provided with one admission poppet valve and two exhaust poppet valves as steam distributing means, mechanism to operate said poppet valves, comprising one cam shaft for operation of the steam admission poppet valve, another cam shaft for the operation of the exhaust poppet valves, means to provide freedom of longitudinal thermal expansion within the respective structural portions of the steam chest insert for the poppet valve guide bushings.

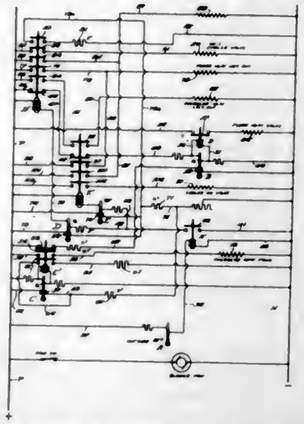
2,593,038

AIR REHEAT CONTROL FOR HEATING SYSTEM

Timothy J. Lehane, North Riverside, and Ira S. Gardner, New Lennox, Ill., assignors to Vapor Heating Corporation, Chicago, Ill., a corporation of Delaware

Application March 17, 1949, Serial No. 81,974
4 Claims. (Cl. 257—3)

1. Apparatus for heating and cooling the air in a room, comprising, floor heat means having a thermostat and relay, overhead heat means, a first cooler having a thermostat and relay, a second cooler having a thermostat and relay, the latter of which is provided with an energized closed contact and a de-energized closed contact, a compressor, an auxiliary heater for said first cooler thermostat, a refrigerant valve for the first cooler, a first solenoid operated valve for admitting heating medium to the overhead heater, a solenoid operated lock-out valve for preventing the passage of heating medium to said first solenoid operated valve, a floor heat lock-out valve, said first cooler relay when energized having a closed contact for adding heat to said auxiliary heater, another closed contact for opening said refrigerant valve, another closed contact for starting said compressor, another closed contact for locking out the floor heat, and another closed contact connected through said energized closed contact of the second cooler relay for locking out the overhead heat, and said first cooler relay having, when deenergized, a closed contact connected through said de-energized closed contact of the second cooler relay



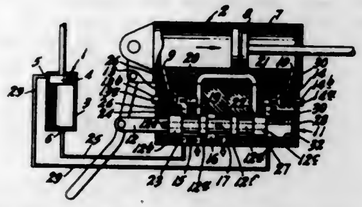
for energizing the floor heat relay when the floor heat thermostat is calling for heat, said last mentioned contact being opened when the cooler relay is energized for deenergizing the floor heat relay.

2,593,039

VALVE FOR SEQUENTIAL OPERATION OF HYDRAULIC MOTORS

Carlos B. Livers, North Hollywood, and Alvin A. Meddock, Van Nuys, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application July 26, 1949, Serial No. 106,934
1 Claim. (Cl. 60—97)



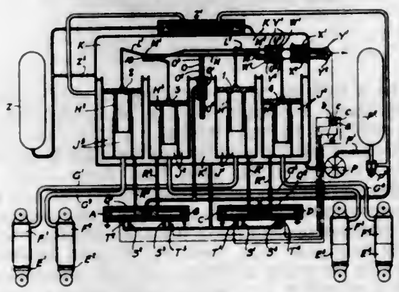
A hydraulic valve for sequentially controlling the flow of fluid to and from first and second reversible motors comprising: a valve body defining a valve cylinder having a first pair of longitudinally displaced motor ports adapted to be connected to said first motor, a second pair of motor ports respectively juxtaposed to said first pair of ports, and pressure and exhaust ports longitudinally displaced from each other and from said motor ports; a valve piston reciprocable in said cylinder from a neutral position in either direction into two end positions, said piston having a pair of spaced lands each covering one of the ports of each pair of motor ports and sealing them from the other ports when said piston is in neutral position; means including said piston and cylinder defining a chamber on the inner side of each said land connected to said pressure port, and a chamber on the outer side of each said land connected to said exhaust port, whereby movement of said piston into one end position connects one of the ports of each pair of motor ports to said pressure port, and the other port of each pair to said exhaust port, and vice versa in response to movement of said piston into the other end position; said body defining a pair of motor passages extending from said second pair of motor ports for connecting them to said second motor and defining a pair of auxiliary cylinders associated with said respective motor passages, each auxiliary cylinder extending from and communicating its associated motor passage with said pressure port; a spring-closed valve in each motor passage movable into open position in response to predetermined pressure in said passage; and a pressure-responsive piston in each auxiliary cylinder and movable therein to abut against and open the spring-closed valve in the associated motor passage in response to pressure in said pressure port exceeding the pressure in said associated motor passage by substantially said predetermined pressure.

2,593,040

VEHICLE SUSPENSION MEANS

Walter Lloyd, Northampshire, England

Application December 30, 1947, Serial No. 794,709
In Great Britain November 21, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 21, 1966
11 Claims. (Cl. 280—124)



1. Vehicle suspension means of the hydropneumatic type comprising in combination, a first set of hydraulic cylinders connected to the chassis of the vehicle; a first set of pistons operating in said hydraulic cylinders, one piston for each wheel of the vehicle and being connected thereto; a second set of two diameter hydraulic cylinders; a second set of two diameter pistons, one operating in each of said second cylinders; means providing a communication between each of said cylinders of said first set and the underside of a corresponding piston of said second set of pistons in said second set of cylinders; walls forming a main pressure chamber, the said main pressure chamber being common to all of said second cylinders and being in communication with the upper ends of larger diameter of the latter; and pairs of linkages communicating together pairs of said second pistons corresponding to diagonally opposite wheels.

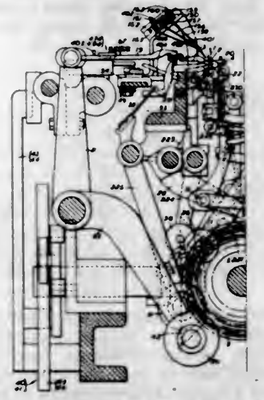
2,593,041

MACHINE FOR THE MANUFACTURE OF RUN-RESISTANT KNITTED FABRIC

John Edward Lynam, Mapperly, and Leonard Brown, Nottingham, England, assignors to William Cotton Limited, Loughborough, England

Application August 13, 1948, Serial No. 44,184
In Great Britain August 21, 1947
8 Claims. (Cl. 66—82)

1. In a straight bar knitting machine for the production of knitted goods by steps which include drawing a locking loop through a normal loop of a preceding course of needle loops a plurality of times by means of bearded needles thereby producing looping parts in the limbs of the locking loops which encircle the limbs of said normal loop, said machine having an upper and a lower set of bearded needles whereof those of the lower set are located immediately to the rear of but slightly lower than those of the upper set and the needles of the upper sets having eyes for



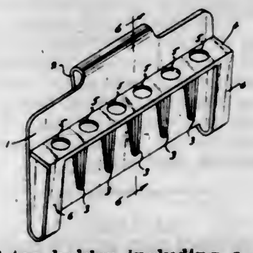
the reception of the heads of the needles of the lower set, a knocking over bar equipped with knocking over bits, and a press edge for operating on the beards of the needles; the provision of a needle-deflector additional to the press edge and the knocking over bar, for producing such needle deflection as will bury the heads of the lower needles in the eyes of the upper needles which needle-deflector is disposed beneath the knocking-over bits.

2,593,042

GOLF-TEE HOLDER

Arthur Lynskey, Martins Ferry, Ohio

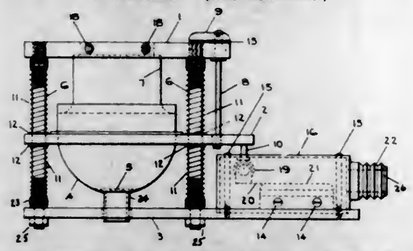
Application October 24, 1949, Serial No. 123,216
3 Claims. (Cl. 224—5)



1. A golf-tee holder including a base portion having a plurality of vertically disposed spaced tapered recesses formed therein, the narrow terminal ends of said recesses being positioned adjacent the lowermost edge of said base portion, said recesses including a back wall and opposed side walls; and a retaining means extending across the face of said base portion above the uppermost wide ends of said recesses, said retaining means comprising an apertured narrow plate-like member extending outwardly from the face of said base portion and downwardly at an angle thereto, said retaining means being supported by said base portion, whereby a golf-tee is retained in said holder by frictional engagement of an upper edge of said tee with an adjacent portion of said base, the frictional engagement of a lower portion of said tee with said back

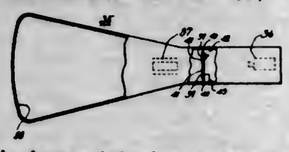
wall of the recess and an outer portion of said tee intermediate its ends in frictional engagement with an edge of a corresponding aperture in said plate-like retaining member remote from said base portion of the holder.

2,593,013
SWITCH FOR CENTRIFUGAL OIL AND WATER SEPARATORS
William Roy Macdonald, Glen Cove, N. Y.
Application May 27, 1949, Serial No. 95,667
2 Claims. (Cl. 200—85)



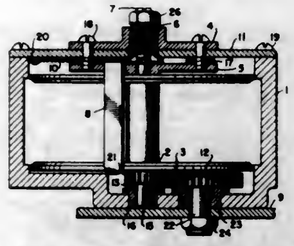
2. A device of the character described comprising an anchor plate having a partially circular perforated main portion provided with threaded radial bores, parallel pins right angularly disposed to said anchor plate being secured to the end portions of the anchor plate and downwardly extended therefrom and having threaded end portions, a base plate being secured to the lower ends of said pins, a flange member intermediate said anchor plate and said base plate being in slidable engagement with said pins, nuts being screwed upon the threaded portions of said pins, springs being interposed between said nuts and both sides of said flange member, a cup-shaped vessel having a perforated bottom being extended through and secured to said flange member, a sleeve member attached to the perforated portion of said anchor plate having an outwardly flared lower portion which extends into said cup-shaped vessel, locking means being provided on said anchor plate and said flange member for temporarily limiting the movement of the latter relative to the former, said base plate having a perforation and a tubular member secured to the perforated bottom of said cup-shaped vessel being slidably extended through the perforation in said base plate, and means for controlling an electrical circuit being secured to said base plate and located in such a manner as to be actuated by the sliding movement of said flange member on said pins.

2,593,044
GRID-CONTROLLED ELECTRON TUBE
Arthur H. Mankin, Chicago, Ill., and David E. Sunstein, Cynwyd, Pa., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Original application April 5, 1946, Serial No. 659,684. Divided and this application November 10, 1950, Serial No. 195,108
11 Claims. (Cl. 315—30)



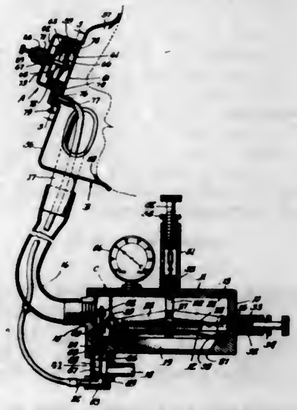
7. A cathode-ray tube having an electron gun to develop an electron beam, a grid system defining a grid window to be transversed by said beam, said grid system consisting of three closely spaced and substantially coplanar grid rings, the middle ring being provided with a lead-in for connection to a biassing source to bias it to a different direct current potential from that of the two remaining rings to maintain the potential field in said window substantially uniform throughout, said middle ring being of larger diameter than the first or inner ring to provide an annular space therebetween, and said middle ring being of smaller diameter than the third or outer ring to provide an annular space therebetween.

2,593,045
FISHING REEL
Max Maroshick, Baltimore, Md.
Application February 21, 1951, Serial No. 212,127
6 Claims. (Cl. 242—84.5)



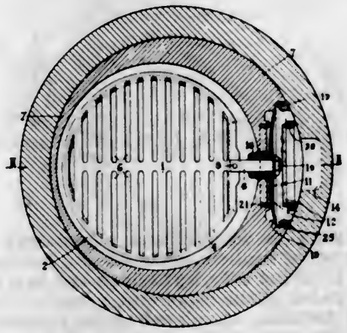
4. In a fishing reel, a housing, a shaft therein, a reel spool mounted rigidly on said shaft for axial shifting in the housing, a line drop finger mounted in said housing for rocking movement, means connected to said line drop finger for translating rocking movement thereof into axial shifting of said spool, a first gear on one end of said shaft, a second gear for transmitting torque to said first gear and mounted by said housing in the path of axial shifting of said spool, and a braking member carried by said second gear for braking contact with said spool.

2,593,046
OXYGEN ADMINISTRATION
Albert E. McKee, Chicago, Ill.
Application May 29, 1944, Serial No. 537,803
23 Claims. (Cl. 128—142)



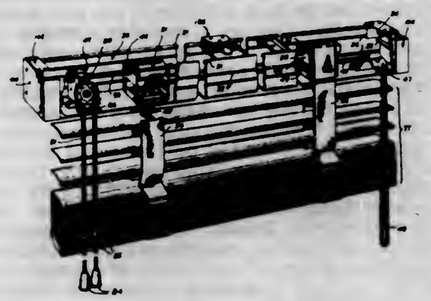
1. In an oxygen feeding system, a mask, a valve device having a housing with one chamber in communication with the mask and one chamber communicating with atmosphere, a pressure responsive device between the two chambers and movable in response to a change in pressures between the two chambers, an expiratory valve having an orifice communicating with said mask, a pressure responsive device controlling said expiratory valve to operate it in one direction, said valve being biased for movement in an opposite direction, a line supplying oxygen under pressure, valve means in said line for controlling the supply of oxygen to said mask and to the second-mentioned pressure responsive device, over center switch means for operating said valve means and operated by the first-mentioned pressure responsive device when the pressure in the mask reaches a predetermined peak pressure, said valve means functioning to deliver oxygen to said second mentioned pressure responsive device and open said expiratory valve and at the same time to interrupt oxygen flow to said mask, and adjustable spring means biasing said first-mentioned pressure responsive device toward said first mentioned chamber, said means being just insufficient to operate said oxygen valve means and deliver oxygen to said mask when the pressure therein approaches atmospheric pressure, but responding to move said first-mentioned pressure responsive device and operate said valve means when a slight negative pressure is established, and means for additionally loading said first-mentioned pressure responsive device to cause return movement and operation of said valve means to admit oxygen when the pressure in the mask is lowered substantially to atmospheric.

2,593,047
MULTIPLE SLIDE VALVE AND OPERATOR THEREFOR
Ernest Mercier and Marcel Ehlinger, Paris, France, assignors, by mesne assignments, to Moore, Inc., Atlanta, Ga., a corporation of Georgia
Application March 6, 1946, Serial No. 652,442
In France March 27, 1945
10 Claims. (Cl. 137—153)



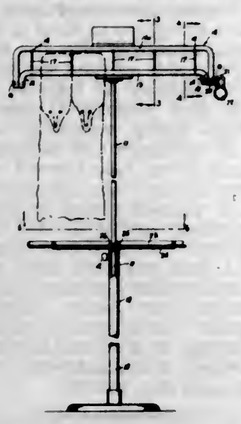
1. A valve structure comprising means providing a plurality of spaced valve openings within said structure for flow of a fluid therethrough in a plurality of generally parallel paths, a valve supported in said valve structure for reciprocating movement thereof transversely of the direction of flow through said valve openings between two predetermined positions, said valve having a plurality of apertures therein in spaced relation so as to register respectively with said openings to unclose said openings when said valve is in a given one of said predetermined positions and cooperating with said means providing said valve openings to close said valve openings when said valve is in said other predetermined position, a flexible diaphragm supported in said valve structure and operatively connected to said valve for reciprocating movement therewith upon flexure of said diaphragm, said diaphragm cooperating with said valve structure to form a fluid pressure chamber communicating with the fluid pressure space at a given side of said valve so that said diaphragm is subjected at least at a given face thereof to the fluid pressure at said side of said valve, and stop means supported in said valve structure so as to engage and disengage said diaphragm at said given face thereof at a point in the movement of said valve adjacent one of said predetermined positions and cooperating with said valve structure and with said diaphragm to change the effective area of said diaphragm subjected to said fluid pressure upon such engagement and disengagement of said diaphragm with said stop means, bias means acting upon said diaphragm upon engagement of said stop means by said diaphragm to bias said diaphragm in the direction toward disengagement of said diaphragm from said stop means.

2,593,048
VENETIAN BLIND HEADBAR CONSTRUCTION
Harry Nelson, New York, N. Y., assignor to Lorentzen Hardware Mf'g. Corp., New York, N. Y., a corporation of New York
Original application October 4, 1947, Serial No. 778,002. Divided and this application April 27, 1949, Serial No. 89,882
2 Claims. (Cl. 160—177)



1. In an enclosed headbar assembly for a Venetian blind, a headbar of rectangular cross section having front and bottom walls and a tilter mounted on the bottom wall of the headbar and provided with a tilter pulley spaced from the front wall of the headbar to permit passage of a lift cord therebetween and a cord guide below said pulley, the cord guide having a pair of barrel-like, cord-receiving portions terminating at their lower ends substantially in the plane of the bottom wall of the headbar and provided with rearwardly-directed openings for lateral insertion of the tilt cord, and the bottom wall of the headbar having a rearwardly-directed C-shaped slot extending beneath and in front of the cord guide and forming a passage for the cord along the outside of the cord guide and communicating with the cord guide openings, said slot being adapted to permit the passing of a looped portion of the tilt cord upwardly through the slot and in front of the cord guide and tilter pulley and the insertion of the tilt cord laterally into the cord guide.
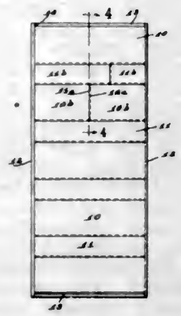
2,593,049
DISPLAY DEVICE FOR FUR SCARVES
Carl W. Paul, New York, N. Y.
Application August 18, 1948, Serial No. 44,856
1 Claim. (Cl. 211—8)



A display device for fur scarves and the like, comprising a fixed member having a transverse bar and depending end leg portions, transversely spaced hook elements secured to said fixed bar, each of said hook elements having an upstanding shank portion and a rearwardly extending curved portion whose upper face is convex, each of said hook elements being adapted to receive a fur scarf with said shank portion projecting within the unjoined portion of adjacent skins of said fur scarf, a movable member having a transverse bar and depending end leg portions, said movable transverse bar being substantially parallel to said fixed transverse bar, said movable member leg portions respectively being adjacent to and pivotally connected to said respective fixed member leg portions along a common turning axis which is parallel to said fixed transverse bar, said movable member being thereby turnable between an opening position and a closing position, said movable transverse bar having grooves in the bottom thereof which are respectively alined with said respective hook element curved portions and which respectively interfit frictionally therewith when said movable member is in said closing position, at least one of said pairs of adjacent leg portions having respective apertures therein which register for the reception of a locking member when said movable member is in said closing position.

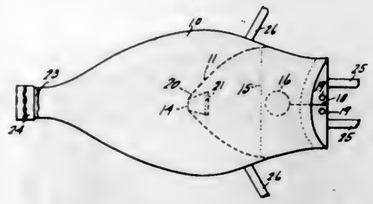
2,593,050
COMPOSITE FIRE DOOR
Hubert W. Paul and Everett C. Shuman, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio
Application January 24, 1952, Serial No. 268,095
11 Claims. (Cl. 20—35)

4. An integral structural unit forming a door or panel, said unit comprising a core of inorganic, rigid, fire-proof, light-weight material of substantially uniform apparent density and consistency throughout, said core consisting of a plurality of articulated sections in the form of strips joined edge-to-edge, the adjoining edge surfaces thereof being formed with interlocking tongues and grooves fitted together and approximately in contact throughout their surface areas thereby forming an interlocking connection between the strips permitting a relative hinging movement of said strips when exposed to the warping action of excessive heat or fire applied to one surface only of said body while maintaining a substantially tight seal between the strips and preventing the leakage of air or gases therebetween when such relative movement occurs, said unit including restraining means by which the said strips are rigidly held against relative movement, the restraining means comprising



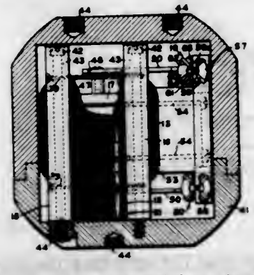
material destructible by high temperature, whereby the restraining action is lost by extended exposure of the unit to excessive heat or fire, the said restraining means consisting of a frame extending along the marginal edges of the core and rigidly united to said core, and a veneer adhered to and covering one major surface of the said core and frame.

2,593,051
DISPOSABLE URINAL WITH LIQUID TRAP
Myrtle S. Pearcy, Sacramento, Calif.
Application October 25, 1950, Serial No. 191,961
5 Claims. (Cl. 128—295)



1. A urinal, in combination; a container formed of waterproof resilient material and having a top wall and having a forward open end and permanently sealed at the other end, a bag of relatively small dimensions as related to the container and having an open forward end sealed inside the forward end of said container and having a small opening providing passage to the container from its rearward end and otherwise forming a closure for the container, and formed of waterproof material and an entrance provided for the forward end of said bag said container having an opening formed through the top wall intermediate the length thereof for insertion and removal of absorbent cushioning material, and closing and sealing means for said opening, said container being filled with removable absorbent cushioning material for absorbing liquids and to maintain the container in an expanded condition against pressure between the legs of a person.

2,593,052
SEISMOMETER
Raymond G. Piety and Marion E. Thomas, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application May 17, 1948, Serial No. 27,594
12 Claims. (Cl. 177—352)



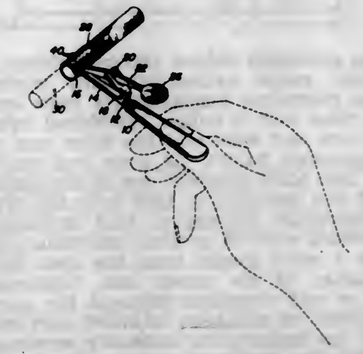
1. A seismometer comprising, in combination, a pair of paramagnetic cores, each including a series of stacked generally rectangular laminations constructed and arranged to define a pair of spaced air gaps along one side thereof, a coil wound on each of said cores, means supporting said cores in aligned, spaced relation so that said air gaps are in facing position, an armature disposed between said cores and having paramagnetic portions protruding therefrom which are closely adjacent the respective air gaps, a plurality of spring suspension units mounting said armature for longitudinal movement with respect to said cores and biasing said armature to a position wherein said protruding portions are at their closest spacing to said air gaps, said suspension units preventing transverse movement of the armature toward or away from said cores, means limiting the longitudinal movement of said armature, and means on said armature for establishing magnetic circuits including the respective cores and the protruding armature portions associated therewith whereby relative movement between said armature and said cores produces a change in said magnetic field thereby to vary the magnetic flux linkage between each of said cores and the coil associated therewith.

2,593,053
BOTTLE CAP REMOVER
Wade Porter, Jr., Edgewater, Colo.
Application November 10, 1949, Serial No. 126,639
2 Claims. (Cl. 81—3.3)



1. A device for removing bottle caps of the type having a bottle closure portion and a peripheral flange thereabout adapted to frictionally engage the bottle, comprising; a body member having a first outer surface adapted to abut an object to which the device may be secured, a second outer surface disposed angularly to the first surface, and a third outer surface disposed angularly to the first and second surfaces, aligned openings in the first and second surfaces for receiving the shank of a screw, a member secured to one of said surfaces having a hook shaped free end spaced outwardly beyond the second surface adapted to engage the flange of a bottle cap, and abutment means disposed in axial alignment with the openings and projecting outwardly from the second surface adapted to engage the closure portion of a bottle cap.

2,593,054
SCISSORS TYPE CIGARETTE HOLDER
Sydney C. Reagan, Sr., and Ollie Reagan, Falls Church, Va., and Claude E. Wood and Gertrude Wood, Maplewood, Mo.
Application January 7, 1948, Serial No. 848
2 Claims. (Cl. 131—174)



1. A cigarette holder including a handle having a fixed jaw, a lever hinged to said handle, a movable jaw on said lever, spring means biasing said jaws into closing position and a cigarette receiving sleeve extending laterally of said handle for enclosing the burning end of a cigarette and retaining the ash therefrom, said movable jaw having a plurality of perforations to admit combustion supporting gases to a cigarette clamped in said jaws, the open end of said sleeve being notched on its upper surface to provide clearance for inserting a cigarette therein.

2,593,055
CYLINDER PISTON STRUCTURE
Edward A. Rockwell, Cleveland, Ohio
Original application June 4, 1943, Serial No. 489,712, now Patent No. 2,448,465, dated August 31, 1948. Divided and this application January 24, 1945, Serial No. 574,321
11 Claims. (Cl. 60—54.6)

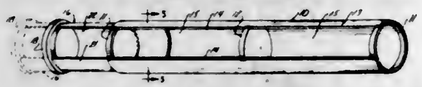


2. In combination, a hydraulic cylinder, a piston movably supported with regard thereto, said piston being located within but spaced from said cylinder, a seal located between the piston and cylinder, and a head for said piston having a self-aligning laterally movable connection therewith enabling said piston to be movable laterally in all directions with regard to said head.

4. In a hydraulic cylinder having a plunger located in but spaced from said cylinder, means for operating the plunger, a movable cylindrical enclosure for the plunger capable of movement when the plunger is moved, a ring supporting the plunger from the cylinder, a fluted bushing for supporting said ring, an inlet and outlet passageway for the liquid moved by the plunger through

the passageway, and a pivoted bracket having a self-aligning laterally displaceable ring for connection to said plunger by means of said ring outside of said cylinder.

2,593,056
EXTENSIBLE BOLSTER ROLL
Veda M. Sage, Panama City, Fla., and Irma C. Plant, Arlington Heights, Ill.
Application March 15, 1949, Serial No. 81,444
2 Claims. (Cl. 5—340)



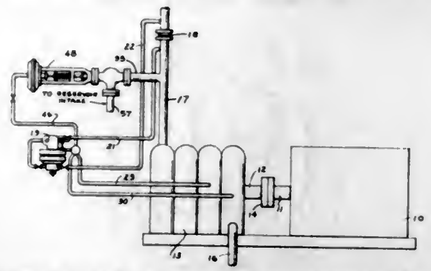
1. An extensible bolster roll comprising a hollow open ended cylindrical body having an opening extending longitudinally from one end to the other end, a hollow cylindrical extension having one end open and the other end closed, said extension having its open end positioned within said body adjacent one of the open ends thereof and mounted in said body for extensile and contractile movement, said extension being provided with an opening extending inwardly from a point spaced from the open end and terminating at its closed end, interengaging means on said extension adjacent the open end thereof and on said body adjacent said one end thereof for limiting the extensile movement of said extension, and stop means on the inner face of the closed end of said extension and engageable with the open end of said body to limit the contractile movement of said extension.

2,593,057
INHIBITORS AGAINST HYDROGEN SULFIDE AND BRINE CORROSION
Michael G. Savoy, Chicago, Ill., assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio
No Drawing. Application December 29, 1949, Serial No. 135,845
4 Claims. (Cl. 252—8.55)

1. The method of protecting steel surfaces in oil wells against hydrogen sulfide and brine corrosion comprising continually introducing in said wells during the production of oil and brine therefrom, compounds selected from the group consisting of cellulose sulfate and alkali metal salts of carboxymethyl cellulose in an amount of about 1 part of said compounds per 1,000 to 10,000 parts of brine produced from the well, so that said compounds become mixed with said oil and brine in contact with said surfaces and withdrawing oil and brine from the well mixed with said compounds.

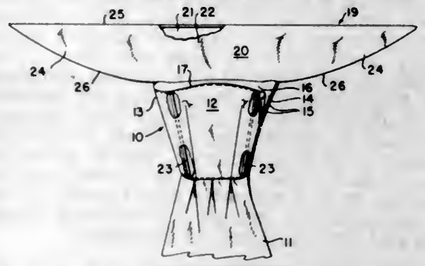
2,593,058
AUTOMATIC RECIRCULATING CONTROL FOR PUMPS
Harold Augustus Schlieder, Syracuse, N. Y., assignor to Continental Foundry and Machine Company, East Chicago, Ind., a corporation of Delaware
Application April 19, 1949, Serial No. 88,394
7 Claims. (Cl. 103—41)

1. The combination with a unit comprising a pump, a liquid supply system for the pump, a liquid discharge line extending from the pump and adapted to have flow therethrough substantially varied, and a substantially constant speed motor for driving the pump, of means for automatically recirculating liquid through the pump when flow through the discharge line drops to a pre-determined value, said means comprising a liquid conduit extending from the outlet side of the pump to a point in the supply system back of the pump, a valve in the conduit, means in



the discharge line for creating pressure differential in accordance with liquid flow through the line, and means under control of the pressure differential means for operating said valve by the pump power when flow through the discharge line reaches a pre-determined value.

2,593,059
LADY'S SLEEVELESS GARMENT
Carolyn G. Schnurer, New York, N. Y., assignor to Carolyn Schnurer Design Studios, Ltd., New York, N. Y., a corporation of New York
Application June 2, 1950, Serial No. 165,791
5 Claims. (Cl. 2—74)

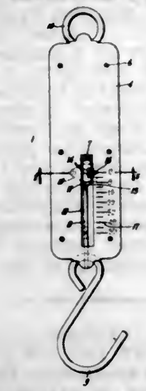


1. A lady's sleeveless garment including a bodice, said bodice having a front portion, side portions and a back portion, said front and side portions extending approximately from the waistline of a wearer to approximately on a line between the arm pits of the wearer, said back portion having a shawl-like extension connected thereto and extending upwardly therefrom, said extension comprising a central section connected to said back portion extending from one arm pit to about the other of the wearer and of a height sufficient to reach approximately the neckline of the wearer when in erect position and a wing section extending sideways from each side of the said central section, said wing sections being of a length sufficient at least to extend across the sides and front of the bodice and to be tied to one another.

2,593,060
LOAD POINTER FOR WEIGHING SCALES
William L. Schrader, Philadelphia, Pa., assignor to John Chatillon & Sons, New York, N. Y., a corporation of New York
Application July 20, 1948, Serial No. 39,703
4 Claims. (Cl. 116—124)

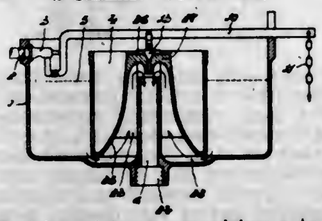
1. In a weighing scale, a load pointer having an inwardly projecting portion for occasional

contact with the face of the scale adjacent the graduations thereof to positively limit movement of the pointer toward the face of the scale, and having an arm offset from pointer proper con-



structed and arranged to extend underneath the face of the scale, said arm having a projecting portion for occasional contact with the under face of the scale.

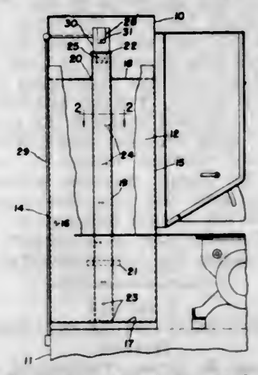
2,593,061
FLUSHING CISTERN
Bote Schrage, Johannes Wijsman, and Hillegardus van den Steenhoven, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 25, 1946, Serial No. 712,122
In the Netherlands September 5, 1945
2 Claims. (Cl. 4—42)



1. A flushing cistern comprising a tank member, a float member arranged within said tank member and comprising a first tubular wall portion and a second tubular wall portion surrounding said first tubular wall portion, said wall portions being joined together at their bottom adjacent edge portions, a barrier wall portion having a restricted opening positioned on the top edge portion of said first wall portion, a first valve member for introducing liquid into said tank member, an actuating lever pivotedly coupled to said valve member and arranged above said float member, a second valve member secured to said actuating lever and engaging said restricted opening, a discharge pipe member extending into said tank member and into said first wall portion, and means to energize said actuating lever to close said restricted opening and simultaneously depress said float member into the liquid in said tank member.

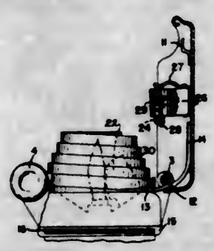
2,593,062
LIQUID LEVEL TANK GAUGE
Raymond E. Shannon, Du Bois, Pa.
Application May 4, 1948, Serial No. 24,926
10 Claims. (Cl. 73—293)

2. Indicating means for determining the liquid level in a tank comprising a tube adapted to extend downwardly in a tank, a plurality of indicia secured to the inner wall of said tube disposed in planes transverse with respect to the axis of said tube, said indicia being circumferen-



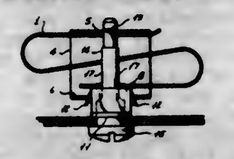
tially spaced with respect to each other and being spaced at different elevations lengthwise of the tube related to different liquid levels in the tank, and means to illuminate the inside of said tube.

2,593,063
WRIST CIGARETTE OR CIGAR LIGHTER
Martin E. Sieber, Dayton, Ohio
Application March 24, 1950, Serial No. 151,569
5 Claims. (Cl. 67—4.1)



3. A cigarette or cigar lighter including a totally enclosed case containing a wick lighter mechanism and a wind guard, said wind guard being formed as a helix of spring strip metal positioned edgewise and surrounding said mechanism; said case being adapted to be opened to ignite the lighter and to present the wind guard in a longitudinally expanded condition to the ignited lighter, said case being carried on a strap and fastening to the wrist.

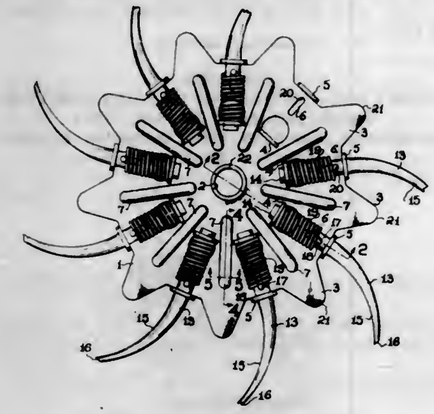
2,593,064
FASTENER
Jacob A. C. Silberman, New York, N. Y.
Application March 19, 1949, Serial No. 82,409
12 Claims. (Cl. 85—5)



1. A fastener for resiliently clamping together plates or the like comprising: a spring having a plurality of spaced overlapping folds, means for holding the spring under preloaded compression including a spring retainer and a rotatable trig-

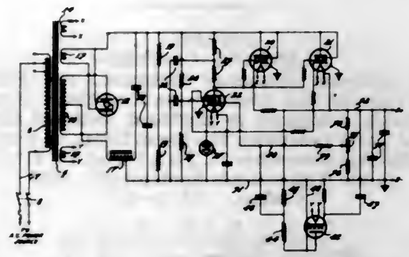
ger member coacting with the retainer to hold the spring under compression when in one position, the spaced overlapping folds of the spring, trigger member and plates having alined openings and the openings of the trigger member and retainer being in the form of elongated slots, and a bolt adapted to pass through all of said openings and provided at one end with a head to engage with the outermost plate and at the other end with a T-head adapted to engage with the slot of said retainer in released position of the trigger member and having an intermediate shank portion shaped to interfit with the slot of the trigger member whereby the rotation of the bolt will lock the retainer to the T-head while the trigger member will release the spring to transfer the compression thereof to the bolt to clamp the plates together.

2,593,065
RESILIENT SOIL-WORKING TOOTHED WHEEL
Eugene R. Simon, Petersburg, Ill.
Application August 19, 1947, Serial No. 769,485
4 Claims. (Cl. 97—216)



1. A rotary, agricultural, soil-working, toothed-wheel comprising a one-piece, generally circular, sheet-metal, stamped-out body having a central perforation and having peripheral, circumferentially equally spaced, radially outwardly extending and tapering projections, the body and projections lying in substantially the same plane; the body between each pair of projections having a pair of radially aligned and spaced apart ears bent integrally from the sheet metal of the body and extending substantially at right angles to the body and having circular aligned perforations therein, respectively, on a common radial axis, a circular series of radial slots in the body closed at both ends each disposed between and under the common axis of a pair of ears; a plurality of soil working teeth each having a straight round-section shank slidingly telescoped through the aligned perforations of a pair of ears; a pin extending transversely through each shank between the corresponding pair of ears; opposite end portions of the pin projecting from the sides of the shank, one end portion of the pin projecting loosely into the corresponding slot; a coil compression spring surrounding the shank and abutting upon the radially inner ear and the projecting end portions of the pin; each tooth having a curved soil working portion outwardly of the body lying substantially in a plane of wheel rotation parallel to the body; the pins and slots disposed to stop outward spring pressed movement of the teeth shanks by engagement of the pins with the outer ends of the slots, and to permit inward yielding, spring-opposed sliding movement of the shanks in the ear perforations by sliding of the pins in the slots, and to concurrently prevent rotation of the shanks in the ear perforations by engagement of the pins with the sides of the slots to maintain the toothed curved portions in their rotational plane; a tubular hub projected through the central perforation of the body and welded to the body with its medial transverse plane substantially coincident with the axes of the tooth shanks, to provide a bearing on which the wheel may rotate on the transverse supporting shaft of an agricultural implement; the said tapering projections being shorter radially than the teeth and opposing penetration of the teeth into the soil.

2,593,066
REGULATED POWER SUPPLY
Kurt Singer, North Hollywood, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application September 23, 1947, Serial No. 775,634
2 Claims. (Cl. 323—22)

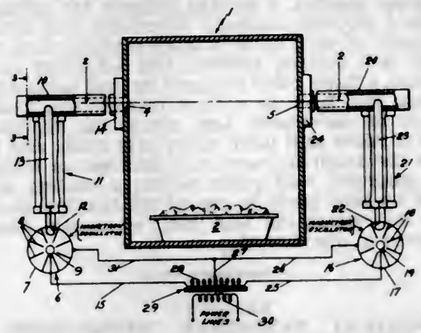


1. A power supply regulator circuit having output terminals for a rectifier adapted to be connected to a load, comprising impedance means connected between said rectifier and said terminals and adapted to be varied in accordance with voltage variations at said terminals, and a pair of feedback circuits between said terminals and said impedance, one of said circuits including a shunt resistor between said terminals, a series resistor, and an amplifier, and the other of said circuits including a condenser and resistor in series across said terminals, a grounded grid amplifier having its input connected between said resistor and condenser, a condenser-resistor output circuit for said grounded grid amplifier connected to the input of said first mentioned amplifier, and a resistive circuit between said first mentioned amplifier and said impedance means.

2,593,067
HIGH-FREQUENCY APPARATUS
Percy L. Spencer, West Newton, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application February 13, 1947, Serial No. 728,261
3 Claims. (Cl. 219—47)

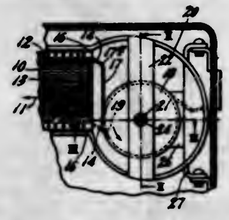
1. Heating apparatus, comprising a metallic enclosure in which a dielectric body may be placed for heating the same, a plurality of magnetron oscillators each having a different output frequency, whereby said oscillators present each to the others an impedance sufficiently high to prevent appreciable absorption of electromagnetic wave energy by any oscillator from the others, and means for coupling the wave output of said

oscillators to the interior of said enclosure to heat said body, said enclosure being substantially non-



resonant at the operating frequencies of said oscillators.

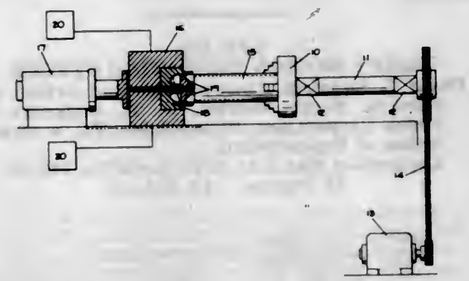
2,593,068
STYLUS STRUCTURE FOR RECORDERS
Hamilton A. Stamper, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application August 2, 1948, Serial No. 42,052
7 Claims. (Cl. 346—74)



1. Apparatus of the type described comprising: means for supporting and moving a sheet record in transversely flat shape through a fixed record path past a fixed straight scanning path extending transversely across said record path; a scanning mechanism positioned entirely on the front side of said record path and including a stylus carrier and an elongated resilient stylus member attached at one end to said carrier and having a free scanning end; means rotatably supporting said carrier for continuous rotation about a fixed axis, and means for rotating it; said resilient stylus member when unrestrained extending from its point of attachment to said carrier in a direction having a radial component away from said axis and describing a circular path; and means for bending said resilient stylus member to deflect said scanning end thereof from movement through its normal circular path into linear movement through said scanning path during a portion of each revolution of said stylus carrier.

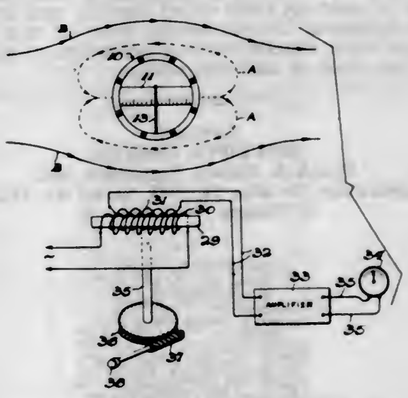
2,593,069
METHOD OF MAKING ONE-PIECE IDLER ROLLERS
Walter C. Steinmetz, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application April 2, 1949, Serial No. 85,152
1 Claim. (Cl. 29—148.4)

The method of making a one piece conveyer idler roller substantially entirely of wrought steel including taking a piece of wrought steel cylindrical tubing of generally uniform cylindrical shape and of desired length and successively heating each end, forming a rough outline of a head on each end by forcing each free end of said tubing while rotating into a non-rotary forming die while said free end is hot, deflecting each end portion of said tubing by said die to bend it into a head with a curved periphery adjacent the adjoining cylindrical body of the roller, and forming a cylindrical portion along the axial center line of the tubular roller body which cylindrical portion forms a bearing receiving cup having a female cylindrical surface concentric with and



radially and axially inside the radial and axial dimensions of said tubular roller body and having a free edge on its axially inner end, and thereafter forming each said head by simultaneously forging a concave portion adjacent the curved peripheral portion, reducing the thickness of the above mentioned cylindrical portion, and enlarging the end portion, thereby forming at each end a concave head with a smooth outer curve at the periphery of each bell connecting it to an adjacent cylindrical portion of the roller.

2,593,070
METHOD OF COMPASS COMPENSATION
Alfred A. Stuart, Jr., Hasbrouck Heights, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application September 28, 1944, Serial No. 556,201
10 Claims. (Cl. 73—1)



8. The method of compensating a magnetic compass, normally mounted in the panel compartment of a craft, against semi-circular error due to the craft's sub-permanent magnetism without the necessity of swinging the craft throughout 360°, comprising the steps of positioning the craft in alignment with the magnetic meridian, determining the amount of the craft's

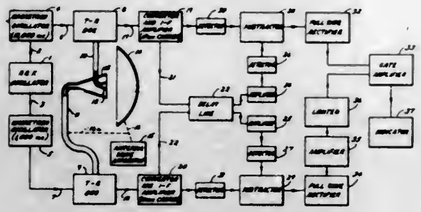
magnetic field in the magnetic meridian which would normally influence the compass when the latter is in its compartment, adjusting a local magnetic field until the influence of the craft's magnetic field on the compass in the magnetic meridian is eliminated, determining the amount of the craft's magnetic field in a thwartwise direction which would normally influence the compass when the latter is in its compartment, and adjusting a second local magnetic field until the influence of the craft's magnetic field on the compass in the thwartwise direction is eliminated.

2,593,071

OBJECT MOTION INDICATING SYSTEM

David E. Sunstein, Cynwyd, Pa., and Arthur H. Mankin, North Merrick, N. Y., assignors to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania

Application March 21, 1947, Serial No. 736,202
14 Claims. (Cl. 343—9)



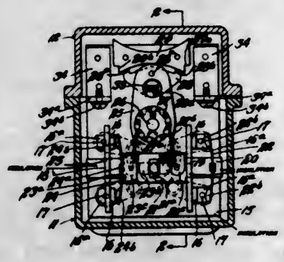
4. In an object motion indicating system of the reflection type, means for radiating high frequency energy of at least two different frequencies and for receiving reflections of said energy from target objects, means responsive to received reflections of energy of one of said frequencies for developing signals only in response to reflections from targets which are in motion, an indicator adapted to be supplied with two separate input signals and responsive to produce an indication only when both of said input signals are supplied thereto simultaneously, means for supplying said developed signals to said indicator as one of said separate input signals, and means for supplying thereto as the other of said separate input signals received reflections of energy of the other of said frequencies.

2,593,072

MULTIPLE SWITCH

Frank A. Talbot, Baltimore, Md.

Application October 23, 1947, Serial No. 781,572
10 Claims. (Cl. 200—5)



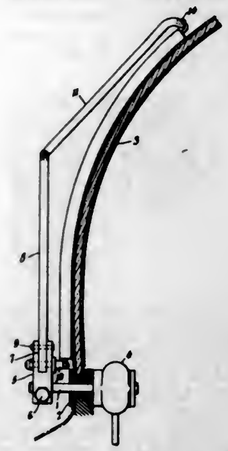
1. A unitary switch structure comprising a fixed contact and a movable contact cooperating therewith, a second fixed contact and a second movable contact cooperating with said second fixed contact, a pivoted element for actuating said movable contacts selectively and independently of each other, a latch movably mounted on said pivoted element and actuating said element, a fixed guide engaged by said latch and holding said latch in a force transmitting position in its movement, and means for applying force to move said latch along said guide and to cause the latch to move said element on which it is mounted, said guide having a portion engaged by said latch in one of its limiting positions for restraining said latch when said latch is moved in one direction.

2,593,073

RESILIENT TENSIONED WINDSCREEN WIPER FOR CURVED WINDSCREENS

Henry William Trevaskis, Solihull, England, assignor to Dunlop Rubber Company Limited, London, England, a British company

Application October 6, 1948, Serial No. 53,021
In Great Britain November 26, 1947
2 Claims. (Cl. 15—255)



1. A windscreen wiper which comprises a rotatable, actuating spindle, an arm fixed to said spindle, a movable arm pivotally attached to said fixed arm at a distance from said spindle on a pivotal axis normal to the plane containing the said fixed arm and said spindle to swing only in said plane, and a resilient wiper blade, said blade being attached at one end to said spindle and fixed arm assembly at a distance from said pivotal axis and at its other end to the free end of said movable arm, the length of said blade when not under tension being less than the combined lengths of said fixed and movable arms between the attachment points of said blade to tension said blade when said swinging arm and blade are pressed against a windscreen.

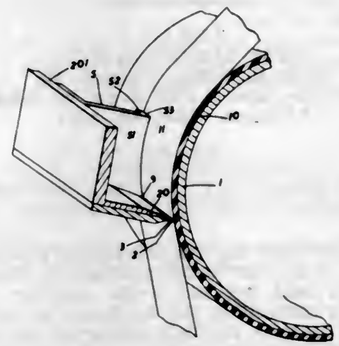
2,593,074

MACHINE FOR THE COATING OF WEBS OF MATERIAL

Arthur Ronald Trist, St. Catherines, Ontario, Canada

Application November 25, 1949, Serial No. 129,289
In Great Britain December 23, 1948
7 Claims. (Cl. 118—409)

1. Means for controlling the leakage of liquid from the ends of the fountain for the coating composition in a coating machine having a resilient moving bed supporting the web of material to be coated, a floor for the lower part of the fountain to form a stock for a stationary elastic trailing blade and dykes for limiting the width of the fountain, comprising a stationary elastic



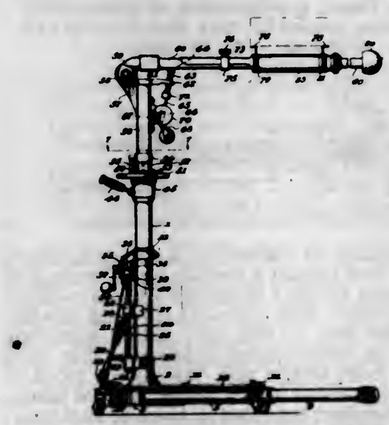
trailing blade of less length than the distance between the outer edges of the dykes mounted on the floor of the fountain, an angular element resting on the floor of the fountain adjacent to the facing surface of each dyke and a metering surface on the angular element adjacent to the web but not in contact therewith.

2,593,075

TYPEWRITER SUPPORT

Jalva Vale, Birmingham, Ala., and Charles E. Klopfer, Washington, D. C.; said Klopfer assignor to said Vale

Application April 10, 1946, Serial No. 660,970
1 Claim. (Cl. 248—124)



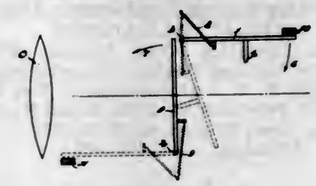
A typewriter support comprising a laterally extending arm, a cylindrical member axially adjustably mounted on said arm and fixed against rotation relative to said arm, a typewriter carrier mounted on said cylindrical member, for rotation about the axis of said member, friction means for resisting rotation of said carrier about said member, resilient means urging said friction means into position to restrain movement of said carrier about said member, and manually operable means for urging the friction means to a position to lock the carrier on said member.

2,593,076

DEVICE FOR LOCATING PICTURE PLATES IN SUCCESSION SO AS TO BE SUBSTANTIALLY NORMAL TO THE LIGHT PATH OF LIGHTING APPARATUS

Pieter Martinus van Alphen, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application July 8, 1946, Serial No. 681,986
In the Netherlands January 18, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires January 18, 1963
2 Claims. (Cl. 88—28)



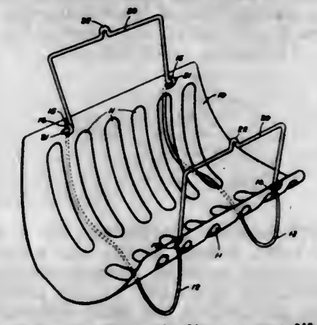
1. In a projection apparatus for projecting a light beam along an optical axis, a combination of two cooperating picture plate carriers respectively pivoted at two first points each on an opposite side of the optical axis and movable to focusing position transversely of the axis, spring means for each carrier, each said spring means having one end thereof anchored at a second point each spaced from said first pivot point of said carrier operatively associated therewith and another end of each said spring means being secured to a projection on the associated plate carrier for acting as an over-center toggle to hold the associated plate carrier in either of two predetermined positions, one of which is said focusing position, and a projecting element on one of said carriers for engaging the other of said carriers so that movement of either of said carriers to said focusing position when the other of said carriers is in said focusing position will force the other of said carriers sufficiently out of said focusing position to move said spring means of the other of said carriers over-center to a position where said spring means can then turn the other of said carriers entirely out of the path of said light beam.

2,593,077

KNOCKDOWN STAND

Paul Vogt, Cheektowaga, N. Y.

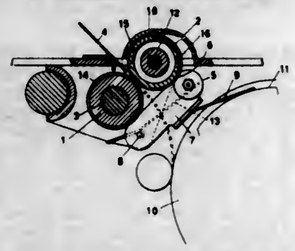
Application May 20, 1947, Serial No. 749,233
7 Claims. (Cl. 248—165)



1. A cooking rack including a readily flexible perforate metal sheet bent into trough shape to form a support for an article to be cooked, and a pair of wire leg members having foot portions formed to rest on a supporting surface and having upwardly extending parts at opposite sides

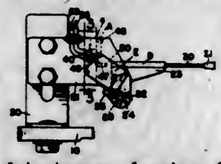
thereof between which said trough-shaped sheet fits, said upwardly extending parts being provided with loop-shaped projections extending toward each other, said sheet having slots therein into which said projections fit to support said sheet from said leg members and for holding said leg members in upright positions, said projections being movable into and out of said slots and permitting said leg members to be disconnected from said sheet.

2,593,078
ROTARY TICKET PRINTING AND MUTILATING MACHINE
Christopher Frederick Webb, London, England, assignor to General Register Corporation, Long Island City, N. Y., a corporation of New York
Application February 12, 1948, Serial No. 7,981
In Great Britain April 18, 1947
3 Claims. (Cl. 101—23)



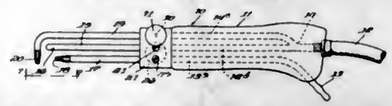
1. In a ticket printing and issuing machine, means for printing a ticket, means for feeding the printed ticket to a pair of rollers having surfaces which mesh over only predetermined portions of their areas whereby the ticket is mutilated at corresponding predetermined areas on passing between said rollers, one of said rollers being driven in synchronism with said printing means and the other of said rollers being driven only by the first roller through the medium of the ticket, and a detent actuated by means cooperating with said printing means for maintaining the roller which is driven through the medium of the ticket in a predetermined position with respect to the first roller when a ticket is not being fed between the rollers.

2,593,079
WEFT DETECTING MECHANISM FOR LOOMS
Herbert A. Whitin, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application December 14, 1950, Serial No. 200,815
11 Claims. (Cl. 139—271)



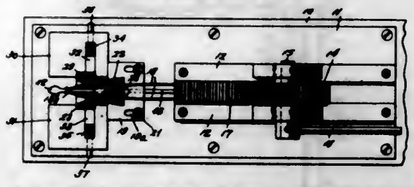
2. In weft detector mechanism for a weft replenishing loom, a base which has a movement from the normal position thereof incident to a weft replenishing operation of the loom, a detector lever pivoted on the base effective to indicate weft exhaustion when having an angular movement with respect to said base and tending to have said angular movement incident to said movement of said base, a detector finger effective when engaging a bobbin depleted of weft to move said lever angularly with respect to said base, and a stop mounted for movement on said base normally out of the path of movement of said lever to enable said finger to move said lever angularly with respect to said base but moved into said path due to momentum thereof to prevent angular movement of said lever relative to said base when the latter has said movement thereof.

2,593,080
SPOT REMOVING GUN
Rollie R. Wilkey, Chicago, Ill.
Application April 1, 1950, Serial No. 153,329
5 Claims. (Cl. 299—144)



1. A spot removing gun for fabrics comprising a source of hot air under pressure, a discharge nozzle for said hot air under pressure, valve means for controlling the discharge of said hot air under pressure through said hot air discharge nozzle, a source of moisture under pressure, a discharge nozzle for said moisture under pressure, valve means for controlling the discharge of said moisture under pressure through said moisture discharge nozzle, said hot air nozzle positioned above the moisture nozzle and arranged and constructed to spread the moisture as it is discharged, a single operating mechanism associated with both the air and moisture valves and said operating mechanism arranged and constructed to initially open the air valve and to initially close the moisture valve.

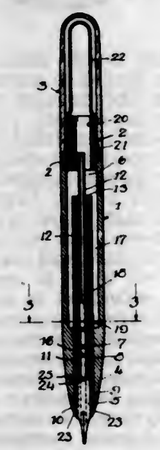
2,593,081
APPARATUS FOR ASSEMBLING CONNECTOR PLUGS
Charles H. Wilmot, Gales Ferry, Conn., assignor to The Plastic Wire & Cable Corporation, Jewett City, Conn., a corporation of Connecticut
Application August 25, 1948, Serial No. 46,016
4 Claims. (Cl. 29—206)



1. A machine for assembling a double terminal connector cord having a contact blade secured to each terminal within a connector plug of resilient material formed with a central aperture extending from the rear of said plug within said body and merging with spaced blade-receiving slots extending from within said base to the front of said plug comprising a plug holder; spaced blade-inserting members mounted in front of said plug; means on each of said members for securing a blade thereto; means for reciprocating said members to move the same simultaneously through said slots and aperture to the rear of said plug and withdrawing them for pulling a contact blade into each of the spaced slots; a guide comprising two parts, each having a portion extending into the central aperture to overlie the side wall thereof, means mounting said parts for lateral movement with respect to said aperture; means operated in advance of the blade-inserting members to spread said guide parts to receive the members between them with said portions of

the guide extending into the central aperture lying between the wall and member, said last-named means being thereafter inoperative; and divergent portions on said members to engage said portions of the guide and spread said parts to a greater extent when the members are moved through the said portions to receive the blades, said portions of the guide also protecting the walls of the aperture from damage by the members during movement of the members therethrough and during passage of the blades into the plug by the blade pulling movement of said members.

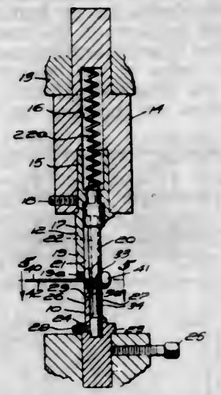
2,593,082
FOUNTAIN PEN
Fred D. Woods, Glencoe, Ill., assignor to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application April 15, 1947, Serial No. 741,462
4 Claims. (Cl. 120—42.16)



1. A fountain pen comprising a hollow barrel having a longitudinally extending large bore providing an ink reservoir, a filler sack mounted at the upper end of the barrel for filling the reservoir, the lower end of the barrel having a reduced bore, a sleeve member located wholly within the barrel and mounted at its lower end in the reduced bore and projecting upwardly a substantial amount into the large bore and in spaced relation with the interior of the barrel, an air tube mounted within said member and in spaced relation with the interior thereof, the upper end of said member being closed about the air tube to provide an annular ink receptacle therebetween, a feed bar and a pen nib mounted within the lower end of said member and in communication therewith, said member having a relatively small opening disposed adjacent and opening into the lower end of the large bore and providing the only means of communication therewith for supplying ink to the ink receptacle between the air tube and said sleeve member.

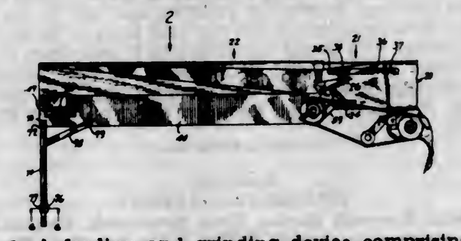
2,593,083
BUTTON LOOP FORMING MECHANISM
Fiorentino Adamo, Providence, R. I., assignor to Oriental Glass & Novelty Company, Inc., a corporation of Rhode Island
Application April 28, 1947, Serial No. 744,459
8 Claims. (Cl. 79—2)

3. A vertically disposed fixed die for a button loop forming mechanism comprising an arcuate shell and a centering rod therein in spaced relation to the shell, said shell being cut away at one side to provide a horizontal cutting shelf,



and being cut away in spaced relation to the cutting shelf to provide a vertically disposed button body stop.

2,593,084
ADJUSTABLE APRON FEEDER
Vern C. Anderson, Hastings, Nebr.
Application February 9, 1949, Serial No. 75,394
2 Claims. (Cl. 241—301)

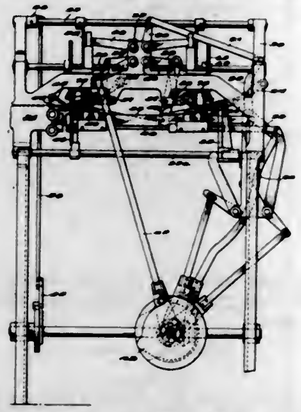


1. A feeding and grinding device comprising; a feed grinder provided at its front end with a receiver having a substantially horizontal floor and upstanding sidewalls at the sides thereof for receiving feed, an endless conveyor having a floor and side walls, a chute having a floor and side walls, interposed, respectively, between the floors of the conveyor and the receiver of the feed grinder and between the side walls of the latter, means pivotally connecting the front end of the chute to the rear end of the feed grinder receiver for movement in a vertical plane, means for securing together the rear end of the chute and the front end of the conveyor in various relative positions, one of said positions being with the floors of the grinder, receiver, chute, and conveyor disposed in substantially the same plane, and another position wherein the rear end of the conveyor floor is spaced above and overlapping the chute floor, and means for securing the parts in adjusted position.

2,593,085
MATERIAL FOLDING MACHINE
Gustave A. Andersen, New York, and Charles Ide Kane, Rye, N. Y., assignors to The International Handkerchief Manufacturing Company, Long Island City, N. Y., a corporation of New York
Application January 18, 1951, Serial No. 206,626
8 Claims. (Cl. 112—2)
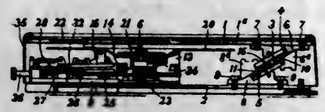
1. In a machine for folding material to form a hem, the combination of at least one rotatable

hem forming bar, said bar having at least one longitudinally extending slot therein, means for advancing the material in a direction transverse to the length of said bar to hem folding position with the end portion of the material overlying and extending slightly beyond the slot in said bar and with an edge of the material substantially parallel to the longitudinal axis of the bar, releasable means for holding said fabric in the



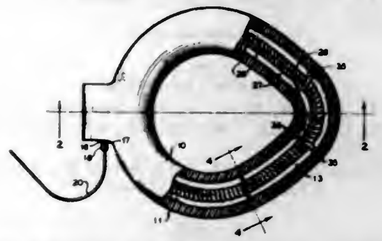
overlying position against said bar, means cooperable with said slot for depressing the material into the slot in said bar to form a loop in the material, means for rotating said bar to draw the material around the bar and thereby to form a second loop in the material which completes the folding of the hem, and means movable longitudinally of said bar and cooperating with said bar for moving said hemmed material from the bar.

2,593,086
WEIGHING MACHINE
John Kenneth Bache, West Bromwich, England, assignor to George Salter & Co. Limited, West Bromwich, England, a British company
Application November 25, 1949, Serial No. 129,249
In Great Britain February 9, 1949
3 Claims. (Cl. 265—68)



1. A weighing machine comprising: weight-indicating means, a weighing platform, a part on the under side of said platform having a downwardly-presented inclined surface; a base part, and a spring; the platform being movable under a load against the action of the spring, downwards and in its own plane, relatively to the said base part; a part on the base part having an upwardly-presented inclined surface opposed to and disposed below the first named inclined surface; the two inclined surfaces being disposed parallel to one another throughout their length; an anti-friction element disposed between the said two inclined surfaces; a link pivoted at one end to a part on the weighing platform and at the other end to a part on the base part; and a stop carried by the middle of the said link and disposed immediately in front of the anti-friction element to retain the latter in a correct position in relation to the aforesaid two inclined surfaces; the said stop moving through one half of the distance traveled through by the weighing platform, that is through a distance equal to that moved through by the anti-friction element.

2,593,087
ELECTRICALLY HEATED TOILET SEAT
Leonard Paul Baggett, Portsmouth, Va.
Application May 31, 1951, Serial No. 229,170
3 Claims. (Cl. 219—19)

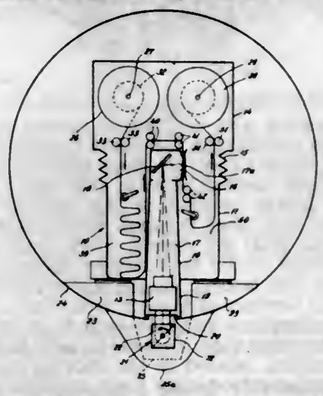


1. An electrically heated toilet seat comprising upper and lower shell-like members secured to each other along the opposed faces thereof to provide an annular heating chamber therebetween, said shell-like members being provided adjacent the rear thereof with opposed cavities providing a downwardly open chamber, a cover plate for said lowermost cavity, externally threaded studs mounted in said upper cavity and extending toward said cover plate, cap screws extending through said cover plate and engaging said studs to retain said cover plate in sealing position, a tubular housing embedded in said upper shell-like member and providing access to said upper cavity, binding posts fixedly mounted in said upper cavity, electrical conductors connected to said binding posts and extending through said tubular housing and leading to a source of electrical energy, an internally threaded cap nut on the outer extremity of said tubular member for sealing engagement with said extending electrical conductors, an annular core positioned within said heating chamber, opposed lugs on said core for maintaining the core spaced from the walls of said heating chamber, and an encircling heating element surrounding said core, the opposed extremities of said heating element extending into the adjacent wall of said upper shell-like member and being secured to said binding posts whereby electrical energy may be supplied to said heating element.

2,593,088
PANORAMIC CAMERA
James G. Baker, Orinda, Calif., assignor to The Perkin-Elmer Corporation, Glenbrook, Conn.
Application August 23, 1949, Serial No. 111,860
5 Claims. (Cl. 95—15)

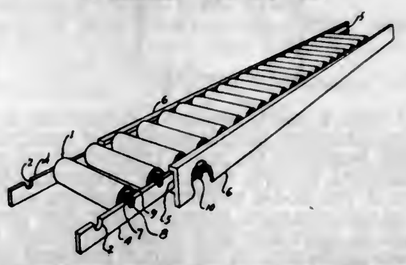
1. A panoramic camera for use on an aircraft for taking a picture of a strip of terrain extending from one horizon to the opposite horizon which comprises a light-proof housing, a passage defined by light-proof walls leading upwardly into the housing from the lower end thereof and spaced from the vertical walls of the housing to provide a pair of compartments extending substantially the length of the housing on opposite sides of the passage, the passage having an opening admitting light at its lower end and one of the vertical walls of the passage being formed with a horizontal slit, a pair of arbors mounted within the housing adjacent the upper end thereof, each of said pair of arbors being mounted above one of said compartments and having its axis parallel

to the long axis of the slit, a film supply spool on one arbor and a film take-up spool on the other arbor, a refracting-reflecting element made of a pair of prisms having their hypotenuse faces in contact and acting as a reflecting plane, the element being mounted for rotation in front of the lower end of the passage on a horizontal axis lying in said plane and parallel to the long axis of the slit, means for continuously rotating the element at a uniform rate, means for drawing film from the supply spool and feeding it into the adjacent compartment, means mounted at the top of the passage for guiding the film from said first compartment over the upper end of the passage and into the second compartment, means within the second compartment for engaging the film and transporting it through the guiding means from the first compartment into the sec-



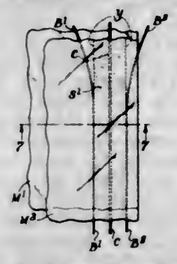
ond compartment, said transporting means lying beyond the slit, means actuated in timed relation to the rotation of the element for starting the operation of the transport means at regular intervals, each transport operation beginning when the element is directing light into the passage and its reflecting plane is approaching the vertical, means for stopping the action of the transport means when the reflecting plane of the element has passed through the vertical and a selected length of film has passed the slit, an optical system within the passage receiving light from the element and focusing an image upon the film through the slit, erecting mirror means between the optical system and the slit for erecting the image, and means for rotating the take-up arbor to withdraw film from the second compartment and wind it upon the take-up spool.

2,593,089
ROLLER CONVEYER CONSTRUCTION
Leonard Dodge Barry, Detroit, Mich.
Application August 22, 1949, Serial No. 111,626
10 Claims. (Cl. 193—35)



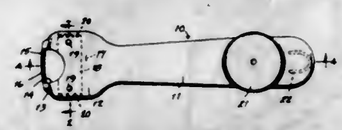
1. A roller assembly for moving articles which comprises a plurality of rollers having shaft end projections, a plurality of parallelly spaced structural members, a plurality of slide retaining members, said structural members having grooves along their lengths which receive said slide retaining members in slidable relation, said slide retaining members having engagements which receive said roller end projections.

2,593,090
METHOD OF FORMING A SEAM FOR UNITING PLIES OF SHEET MATERIAL
Frank J. Bartosz, Cranford, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application September 15, 1950, Serial No. 185,131
6 Claims. (Cl. 154—90)



1. The method of uniting plies of plastic material which comprises introducing between plies of the material a first thread carrying a solvent of at least one of said materials; also introducing between said plies and spaced from the solvent-carrying thread a solvent-free thread; applying pressure to said plies and to said threads to cause the solvent to be pressed out of said first thread and onto the adjacent faces of the plies of said plastic materials and into contact with the adjacent side of the solvent-free thread; and maintaining the pressure on the plies and threads until the solvent has softened a portion of one of said plies and bonded it to the adjacent ply.

2,593,091
CROWN CAP REMOVING AND RETAINING IMPLEMENT
Jobby Belpedio, Bridgeport, Conn.
Application August 22, 1950, Serial No. 180,778
4 Claims. (Cl. 81—3.1)



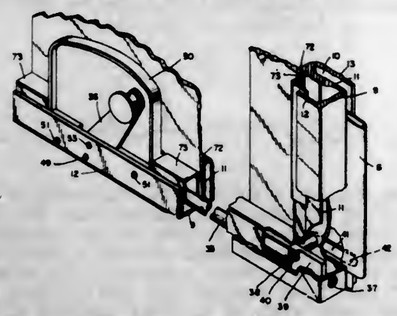
1. An implement for opening and closing crown cap bottles, comprising a substantially flat forward head portion, a handle portion extending rearwardly from said head portion, a depending flange having a forward portion at the forward end of said head portion and side portions extending along each of its sides adapted to enclose the rim of a crown cap at each side, said forward portion having an opening for receiving the rim of a crown cap with the under side of said head portion engaging the upper side of said cap, said opening having a lower edge adapted to engage the under side of said cap rim, and yieldably movable means engageable with said cap rim at a point removed from its point of engagement in said opening to releasably retain it within the space defined by said head and flange portions upon removal from a bottle.

2,593,092
PARTITION STRUCTURE AND METHOD OF MAKING IT
Frank D. Bergstein, Wyoming, Ohio
Application May 12, 1948, Serial No. 26,635
1 Claim. (Cl. 229—42)



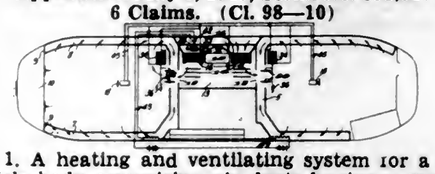
A process of making a divisible pair of partition structures from a single paperboard blank which comprises providing an elongated paperboard blank, cutting and scoring said blank to provide a longitudinal, substantially medial line for severance, and lines of articulation paralleling the first mentioned line and dividing each side of the blank into foldable halves each having an inner and an outer part, and transverse score lines dividing said blank into longitudinal rib forming panels and intermediate, longitudinal pairs of panels foldable with respect to each other at angles to said longitudinal rib forming panels, said lines of articulation constituting fold lines in the areas of said rib forming panels and lines for severance in the areas of said intermediate, longitudinal pairs of panels, folding the outer parts of said halves over said inner parts and adhesively securing together the longitudinal rib forming panels as folded together, whereby to provide a pair of partition structures which may be severed from each other along said medial line for severance and thereafter erected by severing said intermediate, longitudinal pairs of panels from each other along the lines for severance constituting parts of the said lines of articulation dividing each side of the blank into foldable halves and pressing inwardly on the opposite ends of the partition structures so formed pressing inwardly on the opposite ends thereof.

2,593,093
METAL WINDOW CONSTRUCTION
David T. Bjork, Evanston, Ill.
Application April 7, 1948, Serial No. 19,545
9 Claims. (Cl. 189—66)



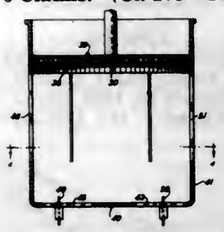
1. A sliding sash window construction comprising a sash frame having opposite side frame members and a laterally projecting tongue element extending along each of said side frame members, said side frame members each having a longitudinal channel adapted to receive and house the respective tongue element, each of said tongue elements being mounted in its respective channel and adaptd to be slidably retracted thereinto, an axially slidable pivot pin element adapted to be projected laterally from each of said side frame members, means in each side frame member for shifting one of said elements laterally relative to the respective frame member, and driving means connecting said one element with the other element in each side frame member and adapted to simultaneously shift said other element in the direction opposite the movement of said one element.

2,593,094
HEATING AND VENTILATING SYSTEM
Lebert E. Blue, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application May 3, 1945, Serial No. 591,817
6 Claims. (Cl. 98—10)



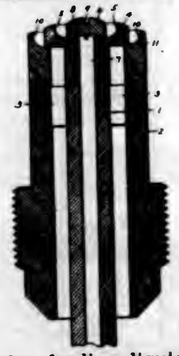
1. A heating and ventilating system for a vehicle body comprising air ducts having a multiplicity of outlets near the floor thereof, a blower and resistors located beneath said floor, an inlet for said blower opening to the interior of said body near said floor through which said blower receives its total air supply, ducts leading from said resistors to the first named ducts, dampers located in the second named ducts operative to outlet any portion of the air from said resistors to the atmosphere beneath said body while directing the remainder thereof to said first ducts, further outlets located in the roof of said body, blower means introducing fresh air through said roof, and thermostatic means located in the air stream directly feeding the first named blower controlling both the volume of air delivered through said roof and the position of said dampers, said thermostatic means causing increasing opening of said dampers while increasing the volume of air delivered through said roof and causing a decreasing volume of air through said roof with closing of said dampers.

2,593,095
CAVITY RESONATOR MODE SUPPRESSION MEANS
Harold B. Brehm, Lyndhurst, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 29, 1946, Serial No. 680,367
6 Claims. (Cl. 178—44)



1. A high Q cavity resonator comprising a cylindrical chamber having electrically conductive surfaces bounding the space therewithin, means for initiating natural resonance frequency oscillations of TM modes within the chamber, an end wall of said chamber having radial slits therethrough to attenuate and inhibit unwanted extraneous oscillations of TE modes, said slits having potential differences for $TE_{0\,1\,n}$ modes set up between opposite margins thereof.

2,593,096
NOZZLE
Olaf Brusdal, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 8, 1950, Serial No. 166,929
5 Claims. (Cl. 299—141)



1. A nozzle for feeding liquids in a plurality of solid, discrete, concentric sheet sprays, said nozzle comprising a plurality of concentric conduits and means at the outlet end of each conduit to discharge liquid flowing therein in the form of a circular spray, said means comprising a conduit-surrounding arcuate shaped liquid-deflecting surface.

2,593,097
ZIRCONIUM OXIDE-SILICON OXIDE SILVER CATALYST SUPPORT AND PROCESS USING THE SAME
William E. Burt and Janet T. Burt, Pleasant Ridge, and Waldo B. Ligett, Berkley, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 9, 1950, Serial No. 200,107
3 Claims. (Cl. 260—348.5)

1. A thermally stable oxidation catalyst containing silver and a support and capable of being readily fluidized, said support consisting essentially of about 30 to 70 per cent zirconium oxide and about 70 to 30 per cent silicon oxide, and of a particle size mixture comprising 30 to 40 parts between 100- and 200-mesh, 30 to 40 parts between 200- and 325-mesh, and 10 to 35 parts smaller than 325-mesh.

3. A fluidized process for making ethylene oxide comprising reacting ethylene with air in the presence of the catalyst of claim 1 at a temperature between about 150° and about 400° C. and with an ethylene to air ratio of between about 1:5 and 1:7.

2,593,098
ORGANIC PEROXIDES AS PROMOTERS FOR SILVER OXIDATION CATALYSTS AND PROCESS USING THE SAME
William E. Burt, Pleasant Ridge, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 9, 1950, Serial No. 200,109
4 Claims. (Cl. 260—348.5)

1. An oxidation catalyst consisting essentially of from 4 per cent to 50 per cent silver, a support therefor, and from 0.5 per cent to 4 per cent of an organic peroxide.

3. A process for producing ethylene oxide comprising reacting ethylene with oxygen in the presence of the catalyst of claim 1, said process conducted at a temperature between 150 and 400° C.

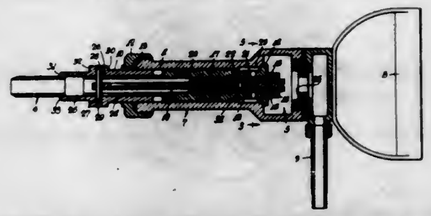
2,593,099
MAGNESIUM OXIDE-BARIUM OXIDE SILVER CATALYST SUPPORT AND PROCESS USING THE SAME
George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 9, 1950, Serial No. 200,126
4 Claims. (Cl. 260—348.5)

4. A process for producing ethylene oxide comprising reacting ethylene with oxygen in the presence of a catalyst comprising silver and a support therefor, said support consisting essentially of 10 to 20 per cent barium oxide and 70 to 85 per cent magnesium oxide, the particle size of said catalyst comprising 40 to 60 parts between 100- and 200-mesh, 30 to 40 parts between 200- and 300-mesh, and 10 to 20 parts less than 325-mesh, said process conducted at a temperature between 150° and 400° C., at a contact time between 5 and 30 minutes and an ethylene to air ratio between 1:5 and 1:2.

2,593,100
SILVER CATALYST SUPPORTED ON A MgO-Al_2O_3 SPINEL
George Calingaert, Geneva, N. Y., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 9, 1950, Serial No. 200,127
2 Claims. (Cl. 252—463)

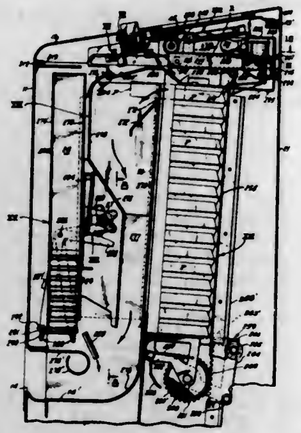
1. In an oxidation catalyst containing between 4 per cent and 50 per cent silver, the improvement comprising a support for said silver consisting essentially of a spinel having $MgO.Al_2O_3$ as the principal ingredient.

2,593,101
MULTIPLE VALVE FOR CONDENSER TUBE BLOWERS
William S. Campbell, Astoria, N. Y.
Application January 17, 1946, Serial No. 641,776
5 Claims. (Cl. 277—43)



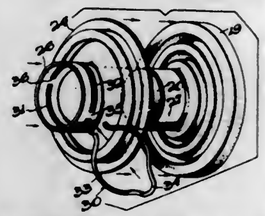
1. In a tube-cleaning device, a housing including a sleeve, a discharge member slidable in said sleeve, a main valve, a pilot valve, lost-motion means connecting said discharge member to said pilot valve, said lost-motion means being operative to open said respective valves in response to displacement of said discharge member in one direction, and lost-motion means connecting said discharge member to said main valve, the motion lost by said second-mentioned lost-motion means being greater than the motion lost by said first-mentioned lost-motion means, whereby first incremental displacement of said discharge member with respect to said sleeve in said one direction is effective to take up lost motion only, further incremental displacement in said one direction is effective to open said pilot valve and still further incremental displacement is effective to open said main valve.

2,593,102
VENDING MACHINE
Mario Caruso, Maplewood, N. J., assignor to C-8 Laboratories, Newark, N. J.
Application December 26, 1946, Serial No. 718,529
7 Claims. (Cl. 312—63)



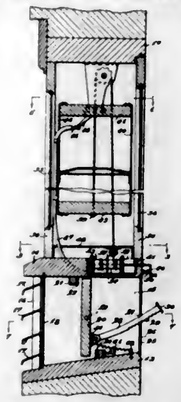
1. In a vending machine, the combination with a cabinet having a movable front, of a mechanism in the cabinet and including rear and front magazines for different articles and ejecting means for both, and a common chute between said magazines for the reception of ejected articles, said front having a framed aperture cooperating with said chute when the front is closed.

2,593,103
FLUID PRESSURE CONTROL MECHANISM
Roger H. Casler, Washington, Conn., assignor to Bendix-Westinghouse Automotive Air Brake Company, Elyria, Ohio, a corporation of Delaware
Application January 15, 1945, Serial No. 572,859
5 Claims. (Cl. 251—119)



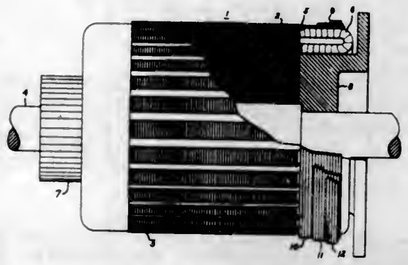
5. A fluid pressure control valve comprising a casing provided with aligned inlet and exhaust openings and an outlet opening, a valve within the casing having a central portion normally closing the exhaust opening and spaced from the inlet opening, said valve having a peripheral portion, a valve guide having a cylindrical bore for receiving and guiding the central portion of the valve, and also having an outwardly extending flange engaging said peripheral portion, resilient means interposed between said casing and said flange for normally urging said peripheral portion against the casing to interrupt communication between the inlet and outlet openings, and means for dampening relative movement between the bore and the central portion of the valve for minimizing vibration of the valve including a split ring carried by the wall of the bore and frictionally engaging said central portion of the valve.

2,593,104
WINDOW CONSTRUCTION
Willie Colangelo, Raton, N. Mex.
Application October 25, 1948, Serial No. 56,351
3 Claims. (Cl. 160—107)



1. A device of the character described comprising a frame, inner and outer windows in the frame, a Venetian blind suspended from the top of the frame between said windows, remotely controlled means for adjusting the angular relation of the slats of the blind and remotely controlled means for raising and lowering the blind, said last named means comprising a shaft transversely mounted in the base of said frame, a pair of spools affixed to the shaft, cords interconnecting each of these spools and the lowermost slat in the blind, pulleys for guiding the cords and a handle at the intermost end of the shaft.

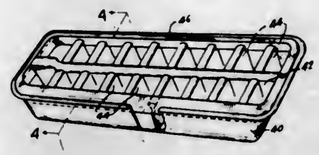
2,593,105
ROTOR FOR DYNAMOELECTRIC MACHINES
Frank A. Compton, Jr., Erie, Pa., assignor to General Electric Company, a corporation of New York
Application February 15, 1951, Serial No. 211,121
10 Claims. (Cl. 171—206)



1. In a rotor for a dynamoelectric machine having a core member with slots formed in its outer surface and windings arranged in said slots having end turns projecting therefrom, binding means circumferentially engaging said end turns for resisting the action of centrifugal force thereon, said binding means being radially thicker adjacent the outer ends of said end turns than adjacent said core whereby the restraint provided by said binding means is proportional to the force exerted thereon by said end turns.

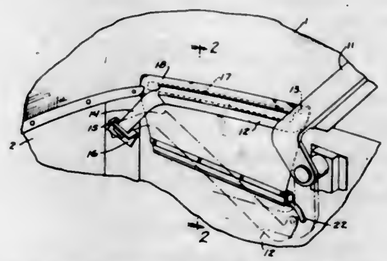
2. In a rotor for a dynamoelectric machine having a core member with slots formed in its outer surface and windings arranged in said slots having end turns projecting therefrom, binding means circumferentially engaging said end turns for resisting the action of centrifugal force thereon, said binding means being substantially triangular in cross section with the thickest portion thereof arranged adjacent the ends of said end turns whereby the restraint provided by said binding means is proportional to the force exerted thereon by said end turns.

2,593,106
SPILL GUARD AND ICE TRAY
Lloyd G. Copeman, Metamora, Mich., assignor to Copeman Laboratories, Flint, Mich., a corporation of Michigan
Application October 25, 1947, Serial No. 782,155
7 Claims. (Cl. 62—108.5)



1. As an improved ice tray grid, a plurality of dividing members formed of flexible, resilient material and adapted to lie within a tray, and a band around the outside upper corners of said dividers formed integrally therewith having a portion extending in a continuous band around the grids below the normal tray height to serve as a seal in co-operation with the sides of a tray, and a portion extending above and over the dividing members in a continuous band joined with the sealing band.

2,593,107
FOLDING TOP FOR CONVERTIBLES HAVING AN AUTOMATIC SEAL AT THE REAR QUARTER
Kenneth E. Coppock, Pleasant Ridge, and Jesse D. Compton, Grosse Pointe Park, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 7, 1950, Serial No. 148,182
3 Claims. (Cl. 296—107)

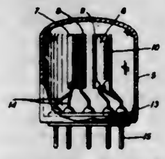


1. In a convertible automobile body having a lower metal body structure or tonneau, a rear quarter panel having an abutment supported thereby, a folding bow structure secured to the tonneau, flexible top material having an elongated pocket and supported by the bows, the top material at the rear quarter extending down and anchored along its lower edge to a member of the lower body structure, a sealing strip of foam rubber secured in said elongated pocket in the top material at a location so that when the top is raised the sealing strip and pocket will parallel said abutment and be opposite the same, and a presser member operatively connected with the bow structure for movement therewith into co-operative relation with said abutment for clamping therebetween said sealing strip for effecting a tight joint.

2,593,108
LEATHER FINISHING
Arthur Frederick Richmond Cotton, Merrick, N. Y.
No Drawing. Application July 3, 1947, Serial No. 758,992. In Great Britain March 18, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires March 18, 1960
3 Claims. (Cl. 69—21)

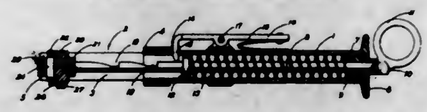
1. A leather finishing process including applying heat to at least one side of leather, with the heat hot enough to materially contract the leather and with the leather permitted to contract and with the leather contacted by a moisture-absorbent bed.

2,593,109
COLD CATHODE GASEOUS DISCHARGE DEVICE
Clifford J. Craft, 3rd, Philadelphia, Pa., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 24, 1950, Serial No. 151,696
6 Claims. (Cl. 313—188)



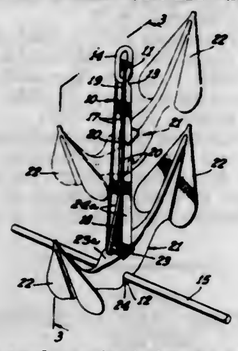
1. A gaseous discharge device comprising a main anode and a main cathode opposite thereto, a starter anode and a starter cathode opposite thereto, said starter cathode being of a material having a lower discharge sustaining voltage than said main cathode, and means for deriving a voltage from the main anode-main cathode discharge comprising a probe electrode positioned adjacent said main cathode.

2,593,110
NOSE TATTOOING DEVICE FOR CATTLE
Charles S. Crane and Robert A. Dove, Porterville, Calif.
Application October 30, 1950, Serial No. 192,958
3 Claims. (Cl. 128—329)



1. A device for applying a tattoo identification mark to an animal, comprising a plunger rod adapted to be forcefully advanced, a head on the front end of the rod, a plurality of side by side indicia blocks removably secured to the face of the block, and tattoo needles projecting forwardly from said blocks in a pattern defining a predetermined indicia; the head including a shoulder projecting forward from one edge, the shoulder having spaced slots in positions corresponding to those occupied by the blocks on the heads, tongues projecting from opposite ends of the blocks, the tongues at one end engaging in the slots, and a releasable hold-down bar mounted on the block and normally engaging the tongues at the other end of the blocks.

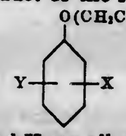
2,593,111
ANCHOR
James V. Crawford and Raymond W. Jensen, Los Angeles, Calif., assignors to The Garrett Corporation, Los Angeles, Calif., a corporation of California
Application December 13, 1947, Serial No. 791,554
5 Claims. (Cl. 114—207)



1. In an anchor adapted to be latched in stowing and working positions, the combination of: an elongated shank having a generally channeled cross-section along its longitudinal axis from a region adjacent the crown end to a region distal thereof, said shank being reduced in size at said distal region; a stock immovably secured adjacent the crown end of said shank; a fluke arm having an aperture in one face thereof, said aperture having a configuration for slidingly receiving said shank adjacent the crown end thereof in the stowing and working positions of the anchor, said fluke arm being rotatable between the stowing and working positions about said longitudinal shank axis adjacent said distal region; and latch means disposed in the channel of said shank adjacent the crown end thereof, said latch means comprising a detent portion normally urged outwardly from said channel and overlying a surface on said fluke arm when said anchor is in its stowing and working positions.

2,593,112
EMULSIFYING AGENTS
James M. Cross, Belvidere, N. J., and Charles R. Enyeart, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 15, 1948, Serial No. 65,535
4 Claims. (Cl. 260—613)

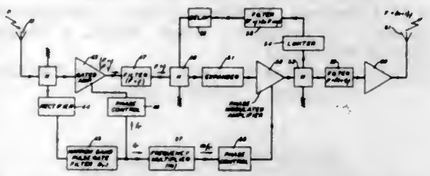
1. The product of the following formula:



wherein X and Y are alkyl groups, each containing at least 6 carbon atoms, the sum of the carbon atoms in X and Y exceeding 14, and n is a whole number ranging from 10 to 25.

2,593,113
REGENERATIVE FREQUENCY SHIFTING AND PULSE SHAPING CIRCUIT
Cassius C. Cutler, Gillette, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1950, Serial No. 203,273
7 Claims. (Cl. 250—27)

1. A pulse shaping circuit for a signal comprising periodic pulses of center frequency F comprising means for obtaining narrow pulses from said signal which are representative of the signal amplitude at the normal pulse occurrence times, a pulse amplifier, means to apply said pulses to said amplifier, means to phase modulate the pulses traversing said amplifier at a frequency which is an integral multiple of the pulse repetition rate to shift the center frequency of said pulses by an amount f for each trip through



said amplifier, a circuit for reapplying the output of said amplifier to its input which includes an expander, a limiter, and a first filter which will pass pulses having a center frequency in the range of F to F plus the absolute value of $(n-1)f$, where n is an integer equal to the desired number of traversals through said amplifier and an output circuit for said amplifier which includes a second filter which will pass pulses having a center frequency of F plus the absolute value of nf.

2,593,114
PREPARATION OF AROMATIC MERCURY HALIDES
Otto Daněk and Jaroslav Nosek, Pardubice-Rybitvi, Czechoslovakia, assignors to Vychodoceske Chemicke Zavody, narodni podnik, Pardubice, Czechoslovakia
No Drawing. Application March 9, 1951, Serial No. 214,852. In Czechoslovakia February 19, 1947
16 Claims. (Cl. 260—433)

1. A commercial method of manufacturing an aromatic mercury halide which comprises diazotizing an aryl amine at a temperature of about 0–5° C. to form the diazonium salt, introducing said diazonium salt into an acidic aqueous medium containing a mercury halide and an equivalent amount of cuprous halide, whereby a diazonium double salt with mercury halide is formed which is immediately decomposed by said cuprous halide to an aryl mercury halide according to the reaction:

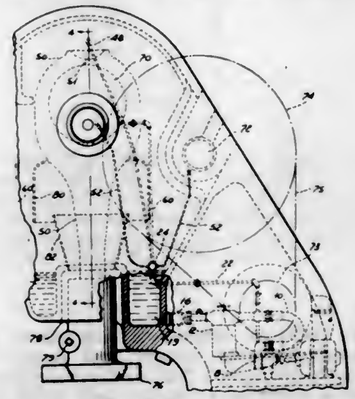
$$RN_2Y.HgY_2+Cu_2Y_2\rightarrow RHgY+2CuY_2+N_2$$

wherein R represents an aryl group and Y represents a halide, and recovering a substantially pure aryl mercury halide.

2,593,115
CONTINUOUS OILING SYSTEM FOR PRESSES
James C. Danly, River Forest, Ill., assignor to Danly Machine Specialties, Inc., Chicago, Ill., a corporation of Illinois
Application November 26, 1947, Serial No. 788,239
6 Claims. (Cl. 184—6)

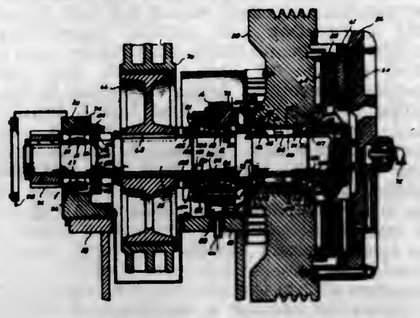
1. A power press including in combination a press frame formed with a housing, a substantially horizontal wall extending adjacent the bottom of the housing and formed with an opening, a ram carried by the frame for reciprocation outside of and below the housing, drive mechanism positioned in the housing, a pitman driven by the drive mechanism and drivingly

connected to the ram and passing through the opening, a lubricant reservoir carried by the frame below the drive mechanism, a stationary lubricant-distributing manifold, stationary lubricant-distributing pipes providing continuous communication between the drive mechanism and the manifold, a lubricant pump, a prime mover for continuously pumping lubricant from



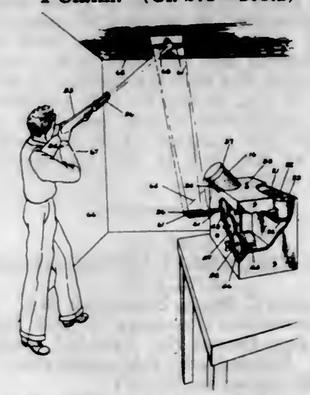
the reservoir to the manifold, a hood baffle carried by the pitman within the housing, an annular baffle positioned within the housing adjacent the opening and extending in telescoped relation to the hood throughout the motion of the pitman and a lubricant return means providing communication between the housing and the reservoir.

2,593,116
POWER PRESS FLYWHEEL BEARING LUBRICATING SYSTEM
Philo H. Danly, Hinsdale, and Vasil Georgeff, Chicago, Ill., assignors to Danly Machine Specialties, Inc., Chicago, Ill., a corporation of Illinois
Application March 30, 1949, Serial No. 84,386
6 Claims. (Cl. 184—6)



1. A power press flywheel bearing assembly including in combination a power press frame, a shaft bearing supported by the frame, a press shaft journaled in the shaft bearing, a flywheel bearing mounted on the shaft, a flywheel rotatably mounted on the flywheel bearing, a lubricant supply chamber carried by the frame, means for introducing lubricant into the supply chamber, means providing communication between the lubricant supply chamber and the shaft and flywheel bearings, an annular lubricant discharge chamber positioned adjacent the shaft bearing, an annular lubricant discharge chamber positioned adjacent the flywheel bearing, a drainage chamber carried by the frame, means providing communication between the shaft bearing discharge chamber and the drainage chamber, means providing communication between the flywheel bearing discharge chamber and the drainage chamber, a ring mounted on the shaft for rotation therewith adjacent the shaft bearing discharge chamber adapted to act as a dam when the shaft is stationary and as a flinger ring when the shaft is rotating to direct lubricant into the annular discharge chamber, and a second ring mounted on the shaft for rotation therewith adjacent the flywheel bearing discharge chamber adapted to act as a dam when the shaft is stationary and as a flinger ring when the shaft is rotating to direct lubricant into the flywheel bearing discharge chamber.

2,593,117
TARGET CONTROL DEVICE
Philip E. Davenport, San Leandro, Calif.
Application April 28, 1947, Serial No. 744,453
1 Claim. (Cl. 273—105.1)

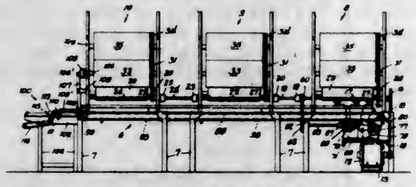


In combination with a wall, a target control device of the character described comprising a rectangular housing, a plurality of gears revolvably supported within the housing, a spring motor associated with the gears for revolving the same, an elongated flat spring keyed to one of the gears and horizontally extending beyond one of the vertical walls of the housing and capable of being revolvable therein when revolvable movement is imparted to the said gears, a substantially flat member fixed on the outer end portion of the said flat spring, a mirror positioned on the said flat member, means including a silhouette provided on the mirror and capable of directing a light beam on the same and the silhouette thereon, whereby a reflection of the target image is directed on the wall and is vibrated when the mirror supported on the said elongated flat spring is revolved.

2,593,118
APPARATUS FOR PRINTING NEWSPAPERS AND THE LIKE
William Ward Davidson, Evanston, Ill., assignor, by mesne assignments, to Davidson Corporation, a corporation of Illinois
Application May 16, 1947, Serial No. 748,393
5 Claims. (Cl. 270—18)

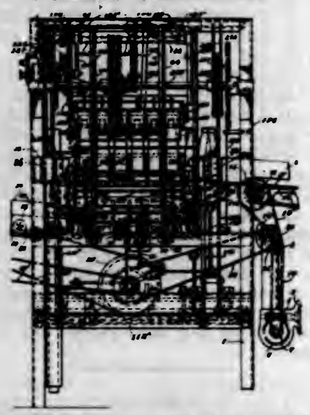
1. In an apparatus of the character described, a plurality of printing presses arranged in uniform spaced relation in a lengthwise row, each of said printing presses including a printing couple adapted when continuously rotated to print and deliver intermittently successive sheets,

drive means associated with said presses for continuously driving the printing couples thereof in synchronism thereby to provide for the printing and intermittent delivery of successive pluralities of printed sheeets in a lengthwise row at uniform intervals, a conveyor arranged in juxtaposition lengthwise of said printing presses for receiving the successive pluralities of printed sheets from said printing presses, and drive means associated with said conveyor and including means operatively associating it for operation in predeter-



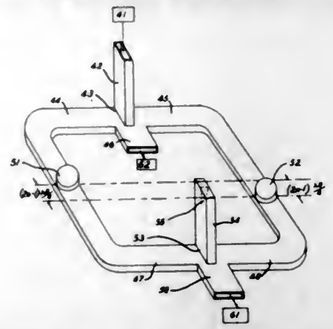
mined time sequence with said first drive means for advancing said conveyor intermittently in successive steps from press to press during the intervals between the delivery of successive pluralities of printed sheets from said printing presses, whereby said conveyor is in a stationary position during the delivery thereto of successive pluralities of said sheets by said presses so that stacks of superposed sheets, one from each of said presses, are adapted to be delivered intermittently at the end of the conveyor toward which it is advanced.

2,593,119
DEFECTIVE CRATE DETECTOR AND EJECTOR
Allan C. Davis, Baltimore, Md.
Original application December 30, 1942, Serial No. 470,654, now Patent No. 2,400,542, dated May 21, 1946. Divided and this application February 6, 1946, Serial No. 645,931
6 Claims. (Cl. 214—11)



1. In a machine of the type described, means for moving open top cases on a predetermined path and means adjacent said path for inverting the cases to remove dirt therefrom, separate means for returning the cases to upright position and means for delivering them from said latter turning means, a case identifying device adapted to be placed on certain cases by the attendant, detector means operated by said identifying device and means controlled by said detector for preventing the operation of one turnover mechanism whereby cases thus identified are separated from the turned cases.

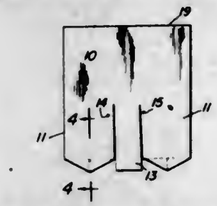
2,593,120
WAVE GUIDE TRANSMISSION SYSTEM
Robert H. Dicke, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application March 8, 1945, Serial No. 581,695
3 Claims. (Cl. 178—44)



1. An electrical apparatus comprising a first wave guide junction having first, second, third and fourth branches, first and second branches forming a main wave guide, said third branch being series connected to said first and second branches, said fourth branch being parallel connected to said first and second branches, said first, second, third, and fourth branches being so joined that their axes meet in a common point; a first iris inserted in said main wave guide in a plane containing the axes of said third and fourth branches; a second iris inserted in said third branch, said first and second irises being adapted to cause each of said first, second, third and fourth branches to be terminated at the junction in its own characteristic impedance; a transmitting means connected to one of said third and fourth branches; a radiating device connected to the remaining of said third and fourth branches; a second wave guide junction having fifth, sixth, seventh and eighth branches corresponding respectively to said first, second, third and fourth branches of said first junction; third and fourth irises positioned in said second junction to correspond in function and position respectively to said first and second irises; an absorber load connected to one of said seventh and eighth branches; a receiving device connected to the remaining of said seventh and eighth branches; means for connecting said first and second branches to said fifth and sixth branches for providing two paths between said first and second junction, the relative lengths of said two paths being such that energy from said radiating device that passes through said connecting means arrives at said second junction in proper phase relationship to pass on into said receiving device; and means within the two paths of said connecting means for causing a maximum of reflection to occur when energy of an amplitude greater than a predetermined value impinges thereon, said reflecting means in the two paths differing in electrical distance from said first junction by an odd number of quarter wavelengths.

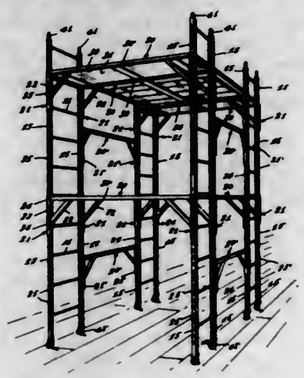
2,593,121
MEDICAL EXAMINATION DRAPE
Phyllis Irene Djorup, Yonkers, N. Y.
Application January 27, 1950, Serial No. 140,795
3 Claims. (Cl. 2—114)

1. A medical examination drape comprising a sheet having three free branches along its bottom edge including two outer branches having toe pockets at their lower ends and a central branch between said outer branches, in combination with complemental fastening means on the two outer branches a short distance below the



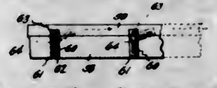
points where the branches join the rest of the sheet and located at the inner edges of said branches whereby the area of the patient uncovered by lifting the central branch is limited to a short distance below the point where the branches join the rest of the sheet.

2,593,122
SCAFFOLD
Carl C. Droeger, Greenfield, and Eugene J. Meloy and William Clark Roggie, Indianapolis, Ind., assignors to Baker-Roos, Inc., Indianapolis, Ind., a corporation of Indiana
Application December 27, 1946, Serial No. 718,716
3 Claims. (Cl. 304—3)



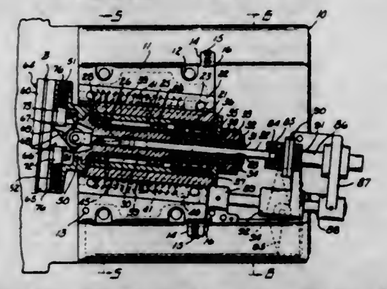
1. In knock-down scaffolding, a plurality of end frames each including a pair of spaced uprights rigidly interconnected by a plurality of spaced horizontal rungs, said uprights being provided at their ends with complementary provisions adapted to interfit when two end frames are superposed and to hold the superposed end frames in alignment, horizontal side rails for interconnecting the uprights of opposed end frames, each of said side rails being provided at its ends with vertically extending guides adapted to receive the uprights of different end frames, each of said uprights being provided with a vertical series of equally spaced openings, each of said guides having a pair of vertically spaced lugs adapted to be received in interlocking relationship in two of said openings to prevent separation of the guide from its associated upright, the sum of the respective distances between end openings of the series and the adjacent ends of the upright being equal to an integral multiple of the distance between adjacent openings, whereby the lugs on any guide can be received respectively in openings of superposed uprights.

2,593,123
ASH-CONVEYING MEANS
James K. Dukas, Edwardsville, Pa.
Application March 3, 1947, Serial No. 731,947
1 Claim. (Cl. 198—224)



A mechanism of the class described comprising a housing, an ash-conveying means comprising a pair of lower longitudinal transversely spaced side rails, a base supporting said side rails, a pair of upper parallel transversely spaced side rails slidable upon the first mentioned rails, actuating means connected to said upper side rails, a plurality of transversely extending raker plates extending between the transversely spaced side rails, each raker plate having opposite flanged ends fitting flat against the transversely spaced side rails to brace the ends of the raker plates, each flanged end having a longitudinal slot, guiding means carried by the opposite upper rails and extending through the upper ends of said slots to suspend the raker plates between the opposite rails, connecting means located near the upper edges of the opposite lower side rails and passing through said slots to move said raker plates from a substantially vertical to a substantially horizontal position in a swinging movement when the upper side rails are moved longitudinally of the lower rails in one direction and to reverse the movement when the upper side rails are moved longitudinally in the opposite direction.

2,593,124
WEDGE FACING MACHINE
Gerald Eaton, Manchester, Conn., assignor to The Taylor & Fenn Co., Hartford, Conn., a corporation of Connecticut
Application September 23, 1948, Serial No. 50,756
6 Claims. (Cl. 82—2)



1. A wedge facing machine comprising a base, a fixture on the base for supporting a wedge to be faced, a pair of opposed hollow spindles disposed at right angles to the faces of a wedge supported in said fixture, said spindles being mounted on the base for rotational and longitudinal movement, a cutting head carried by each spindle, a radially slidable tool on each head, means including a push rod extending through the spindle and slidable axially therein for moving the tools radially of the heads, means for rotating the spindles in opposite directions, means for simultaneously advancing and retracting the spindles to engage and disengage the cutting tool with the wedge faces, and means for advancing the push rod relative to the spindles to cause radial movement of the cutting tools effective when the spindles are in said advanced position and during a cutting operation.

2,593,125

PROCESS OF COAGULATING ASBESTOS

Samuel Edward Eaton, Lexington, and Charles G. Harford, Quincy, Mass., assignors to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application July 9, 1949, Serial No. 103,944
2 Claims. (Cl. 252—315)

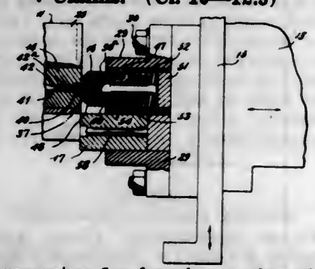
1. The process of coagulating finely divided asbestos suspended in the water which comprises preparing a coagulant suspended in water and adding said coagulant suspension to the asbestos suspension, said coagulant being formed by precipitating gelatin with tannic acid to yield a curdy adhesive precipitate in an amount sufficient to coagulate said asbestos.

2,593,126

MANUFACTURE OF PIPE PLUGS OR THE LIKE

Paul A. Estok, Lakewood, Ohio, assignor to The Lamson & Sessions Company, Cleveland, Ohio, a corporation of Ohio

Application July 15, 1949, Serial No. 105,024
7 Claims. (Cl. 10—12.5)



2. In apparatus for forming a pipe plug blank or like article having a polygonal head and a substantially cylindrical body adapted to be threaded, a pair of die members having cooperating die recesses therein, means for supplying to said die members a segment of polygonal stock having a cross-sectional size and shape corresponding approximately with the size and shape of said head, one of said die recesses having substantially the size and shape of said body and the other having substantially the size and shape of said polygonal head and being adapted to receive one end of said polygonal segment in fitting engagement therein, one of said die members having an axial passage communicating with the die recess thereof, an upsetting pin slidable in said passage, and actuating means operable to cause relative closing movement between said die members such that said die recesses form a closed die chamber and to also cause movement of said upsetting pin in said passage in a direction to upset said segment in said closed die chamber, said die recesses having a combined axial length at least equal to the initial length of said segment such that said segment is trapped in said closed die chamber prior to the upsetting of said segment by said pin.

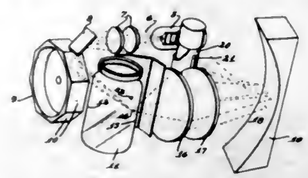
2,593,127

ELECTRONIC INSPECTION OF GLASS CONTAINERS

William J. Fedorchak, Granite City, Ill., assignor to Owens-Illinois Glass Company, a corporation of Ohio

Application January 24, 1950, Serial No. 140,240
11 Claims. (Cl. 88—14)

1. Apparatus for testing the inner surface of a glass container for detecting flaws in said surface, said apparatus comprising a light source, a reflector mounted for rotation about an axis, a motor geared to the reflector for rotating the reflector about said axis at a high speed, said reflector having light reflecting surfaces formed on its periphery, means for so positioning the reflector and container that said reflecting surfaces are in the path of a beam of radiation from said light source and reflect the beam and direct it against the said container so that the beam passes



through the wall of the container to said inner surface, means for condensing and focusing the beam to a small spot at said inner surface, means cooperating with the rotating reflector for causing the condensed beam to scan said inner surface, and a photoelectric cell sensitive to said radiation and positioned in the path of radiation reflected from a flaw in said inner surface when the flaw is brought into the path of the said beam.

2,593,128

PROCESS FOR SULFURIC ACID RECOVERY

Richard H. Felter, Oakland, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 6, 1948, Serial No. 25,531
10 Claims. (Cl. 23—173)

1. The method of treating sulfuric acid sludges formed in the treatment of petroleum fractions with concentrated sulfuric acid and characterized by a sulfuric acid content above about 80% by weight and by a weight ratio of sulfuric acid to water above 93:7 which comprises cooling the sludge to a temperature between about 0° F. and 30° F. to produce a solid phase comprising concentrated sulfuric acid having a concentration greater than 93 per cent and a liquid phase and thereafter separating the phases.

2,593,129

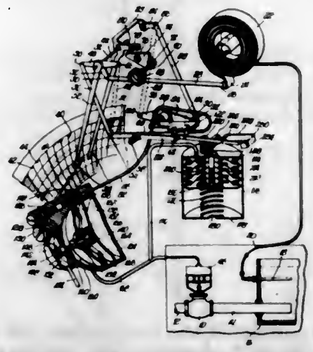
CONTROL MECHANISM

Carl William Fischer, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a corporation of Illinois

Application February 25, 1946, Serial No. 649,959
5 Claims. (Cl. 137—153)

1. A device for establishing a pneumatic control pressure, comprising a condition responsive means, a pivotally mounted nozzle, output pressure from said nozzle adapted to be varied in proportion to the movement of the condition responsive means, a flapper valve pivotally mounted adjacent said nozzle and biased to a position to close said nozzle, the pivotal mounting of said nozzle and flapper being substantially in alignment, a flapper arm lever pivoted at a point spaced from the pivot of said flapper and movable between upper and lower extreme positions, said lever being provided with a lever arm extending toward the pivotal mounting of said flapper, a flapper control arm pivoted to said flapper arm lever at a point adjacent the pivotal mounting of said flapper, said flapper control arm having a member engageable with said flapper for

regulating the position of said flapper with respect to said nozzle, the position of said flapper control arm being adapted to be determined by operation of condition responsive means, a pivotally mounted pinion shaft lever, said lever having a pinion shaft lever arm and a fulcrum pin arm, said flapper arm lever having a fulcrum pin lever arm disposed adjacent said fulcrum pin arm, a fulcrum pin between said fulcrum pin lever arm and fulcrum pin arm and movable therebetween whereby movement of said pinion shaft lever



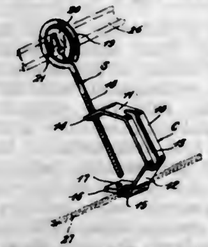
variably moves said flapper arm lever, and control mechanism for moving said pinion shaft lever, said control mechanism comprising a flexible bellows adapted to be controlled in its movement by the output pressure from said nozzle, a pinion shaft engaging said pinion shaft lever arm and carried by said bellows, movement of said bellows bodily moving said shaft, a pinion on said pinion shaft, and manually controllable means for rotating said pinion shaft to move it bodily with respect to said bellows to selected positions.

2,593,130

CLAMP SUPPORT FOR STANDOFF INSULATORS

Alfred A. Flynn, Cleveland Heights, Ohio, assignor to Mueller Electric Company, Cleveland, Ohio, a partnership

Application July 20, 1949, Serial No. 105,807
4 Claims. (Cl. 174—154)



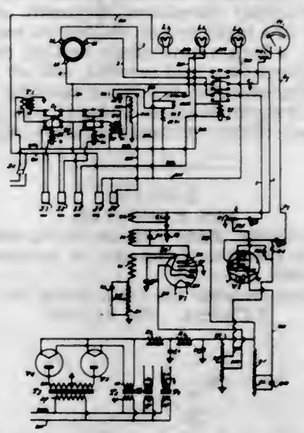
1. A combined clamp and stand-off insulator for use with antennae comprising a clamp adapted to partially embrace a supporting element such as a mast, cross-arm, gutter, beam or the like and having a central portion provided at its opposite ends with integral divergent and opposed portions, said opposed portions at their outer ends having integral angularly disposed parts, the part of one of said opposed portions being provided with a tapped opening, the other of said opposed portions being provided inwardly of its angularly disposed part with a groove facing said tapped opening and aligned therewith and adapted to receive a guy wire, a clamping bolt screwed in said opening and adapted to have its inner end clamp said guy wire in said groove, said bolt being provided at its outer end with an eye, and an insulating insert mounted in said eye and provided with an opening to receive a lead-in or transmission line.

2,593,131

GENERATOR ARMATURE TEST

Floyd J. Foust, Olven W. Childress, Jr., Dwight O. Crim, and Robert A. Thompson, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 7, 1948, Serial No. 53,362
3 Claims. (Cl. 175—183)



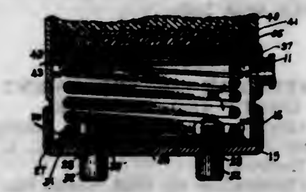
1. Apparatus for testing an armature having coils connected with bars of a commutator, means for rotating the armature, three, spaced, commutator engaging contacts, means for causing the contacts to engage the commutator while rotating, an oscillator of fixed frequency, an input circuit including a resonator inductively related to the oscillator and two of the contacts between which armature coils are connected and an output circuit including one of the contacts in the input circuit and another of said contacts between which armature coils are connected, and including a meter giving, as the armature rotates, an indication of the resonance of the combination of coils of the armature and said resonator with respect to the resonance of the oscillator, said indication being in accordance with whether armature coils are all in proper condition or whether one or more of them are open circuited, short-circuited or grounded.

2,593,132

CONTAINER FOR DESICCANT MATERIAL

Russell R. Gannon, Cincinnati, Ohio

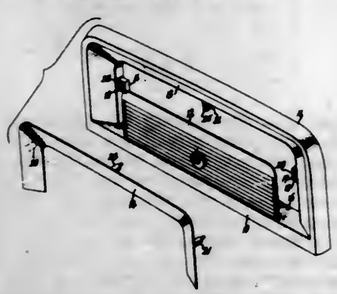
Application December 5, 1947, Serial No. 789,950
1 Claim. (Cl. 183—4.8)



In a pneumatic circuit, a container for desiccant material, comprising an outer member con-

stituting a holder, and an inner member having end walls provided with openings and constituting the container proper, said holder being generally of cylindrical shape and having one end permanently closed except for a port fitting, there being also a port fitting adjacent the other end, said port fittings being connected to place said holder in said pneumatic circuit, said other end having a removable closure separate from said last mentioned port fitting, whereby said inner member may be inserted and removed without disturbing the connections between said holder and said pneumatic circuit, said container proper being internally threaded at each end, and there being an externally threaded ring in engagement with said threads at each end to constitute internal shoulders adjacent each end thereof, a fine mesh screen resting on each of said shoulders, a foraminous plate resting on each of said shoulders over said screens, and an externally threaded annular retaining member engaged in said first mentioned threads to hold said screen and plates securely against said shoulders.

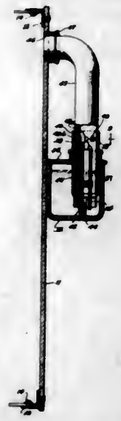
2,593,133
AIR REGISTER
Henry R. Geaty, East Orange, N. J., assignor to General Electric Company, a corporation of New York
Application October 29, 1949, Serial No. 124,384
2 Claims. (Cl. 98—40)



1. An air register or the like comprising a plate having an opening therein for the passage of air, an air directing vane adapted to be positioned in said opening and forming with said plate a substantially continuous projected face area in the plane of the face of said plate, a plurality of lugs on said plate extending into said opening, means on said lugs for facilitating the attaching of said plate to a supporting structure, a plurality of attaching elements on said vane, means including friction gripping members for securing said attaching elements to said lugs, said members being disengaged upon direct forward movement of said vane away from said opening whereby said vane may be removed readily to afford access to said plate attaching means and whereby said vane when in position in said opening substantially conceals said lugs.

2,593,134
APPARATUS FOR THE TREATMENT OF CROUP AND THE LIKE
Samuel Y. Gibbon, Jenkintown, Pa., assignor to Air-Shields, Inc., Bucks County, Pa., a corporation of Delaware
Application November 19, 1948, Serial No. 60,846
9 Claims. (Cl. 128—186)

1. Portable apparatus for use in the treatment of croup and similar maladies including a humidifier tank, said tank having a removable lid, a standpipe supported on said lid and adapted to project into said tank when the lid is in position, an atomizer unit supported in said standpipe, said atomizer unit having a channel adapted to project into said tank so that its lower end is



below the surface of the liquid when the humidifier is in use, said atomizer unit having a second channel, a connecting fitting mounted on said lid suitable for connecting to a source of gas pressure, and a tubular member connecting said fitting on the inside of said lid to said second channel of the atomizer unit.

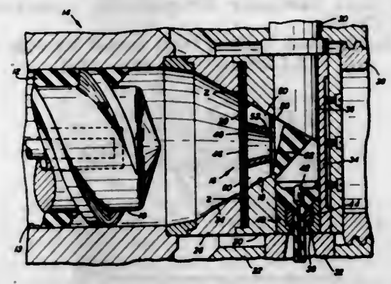
2,593,135
BOTTLE CARRIER
Clyde L. Gilbert, Elkhart, Ind., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application June 2, 1948, Serial No. 30,597
4 Claims. (Cl. 229—52)



1. A blank of foldable sheet material having weakened fold lines along which the blank is foldable for forming a bottle carrier, said blank comprising a rectangular bottom-forming panel with a median fold line extending lengthwise thereof, side panels integrally united to the bottom panel by fold lines defining the sides of said bottom panel, end forming panel sections at the ends of each side panel and forming extensions of the side panels, said sections being united with the side panels along fold lines in line with and extending from the end edges of the bottom panel, sealing flaps at the outer sides of said end panels and united directly to the end panels by fold lines, adhesive material covering surface portions of said flaps, said side panels being foldable upwardly from the horizontal plane of the bottom panel, the said end panel sections being foldable inwardly from the upturned side panels, said end panel sections being of such width that when folded inwardly at right angles to the side panels their outer edges substantially meet in abutting relation, said flaps being foldable inwardly relative to the end panels to superpose said flaps, permitting them to be adhered together by said adhesive material, the blank

being weakened along the said fold lines to permit folding at said lines, said blank being formed with slits each extending across a said end panel section and through a portion of the adjoining side panel and defining the inner edge of a partition strip, the outer end of each slit being at the fold line between the end panel and the attached sealing flap, the partition strips being foldable with the blank into position to form separating walls or partitions dividing the carrier into individual cells.

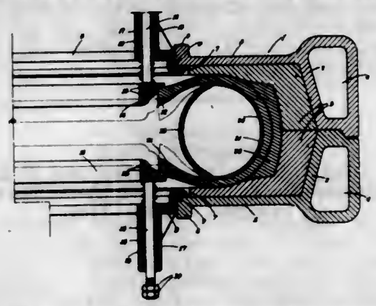
2,593,136
APPARATUS FOR EXTRUDING AND STRAINING COMPOUNDS
George E. Gliss, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1949, Serial No. 94,646
2 Claims. (Cl. 18—13)



1. An apparatus for extruding and straining plastic compounds, which comprises an extrusion cylinder having a bore therein, a stock screw rotatably mounted in the bore for forcing plastic compound along the outer portions of the bore, an extrusion head positioned at the discharge end of the cylinder and having a tapered passage generally aligned with and in communication with the bore, a backing plate having a tapered, tubular central portion and also provided with a plurality of arms having flat supporting-edges extending generally radially outwardly from the central portion and formed so as to nest in the tapered passage, a coarse backing screen supported by the backing plate in a position between the backing plate and the cylinder, and a fine straining screen supported by the coarse backing screen in a position between the backing screen and the cylinder.

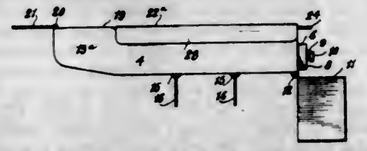
2,593,137
TREAD CENTERING MECHANISM FOR TIRE MOLDS
Edwin A. Glynn, Lodi, Calif., assignor to Super Mold Corporation of California, Lodi, Calif., a corporation of California
Application April 17, 1950, Serial No. 156,447
3 Claims. (Cl. 18—18)

3. A full-circle mold including a body and a matrix therein; the body and matrix terminating radially out from the beads of a tire to be confined in the mold; a tread centering device comprising a pair of axially alined and separated rings having annular tire-bead engaging seats, the rings being disposed radially and laterally inward from the body and matrix and clear of the same, ring-like mounting plates engaging and supported from the body at its radially inner termination, pins secured in the rings parallel to the axis thereof and projecting laterally out therefrom, compression springs about the pins, and elongated bosses on the plate projecting laterally out therefrom and disposed about the corresponding portions of the pins and springs; the



bosses at their outer end slidably embracing and supporting the pins and the springs bearing at one end against said outer end of the bosses and at the other end against the ring.

2,593,138
CONTAINER FOR ARTISTS' MATERIALS
George K. Gombarts, New York, N. Y.
Application October 6, 1949, Serial No. 119,839
2 Claims. (Cl. 41—4)



1. A container for artists' equipment comprising, a box having a body provided with a tray, a liquid-containing tank disposed below the tray, a pivoted end closure for the body consisting of a hingedly attached cup into which liquid can be poured from the tank while the cup remains attached to the body, the pivot for the cup permitting the cup to hang in a suspended, substantially vertical position with its mouth directed upwardly and to hold a quantity of liquid in position for use while painting and while the cup is in such suspended position, the tank having a pouring outlet directed toward the mouth of the cup and from which liquid may be poured directly into the cup while the cup hangs in its suspended position, and covers for the top of the body.

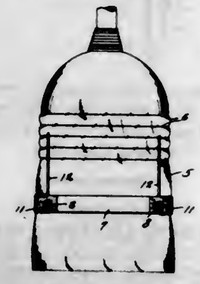
2,593,139
PLOWSHARE MANUFACTURE
Robert O. Greenshields, Detroit, Mich., assignor to The Budd Company, a corporation of Pennsylvania
Application April 24, 1946, Serial No. 664,636
2 Claims. (Cl. 29—14)



1. The method of die-forming an article, such as a non-symmetrical plowshare point, in successive die sets which do not provide a positioning fit with the blank itself at successive stages, which method comprises, die-forming a blank in one set of dies and in the same operation form-

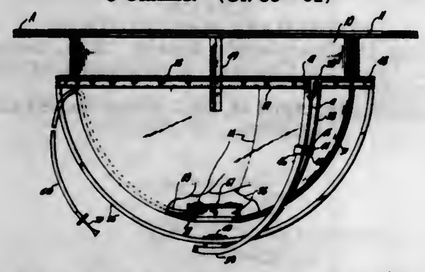
ing flash on the blank with rotationally positioning indexing elements in the flash, transferring the blank with flash to a second die set with the indexing elements of the flash interfitting with mating indexing elements of the second die set to position the blank rotationally in the second die set for proper striking, and die-forming the blank in the second die set.

2,593,140
BROOM BRIDLE
Otto R. Grube, Egg Harbor City, N. J.
Application December 20, 1948, Serial No. 66,277
1 Claim. (Cl. 15—170)



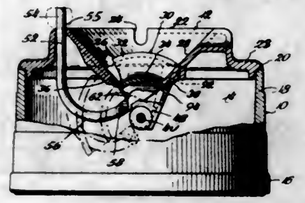
In a broom bridle, a pair of parallel bars adapted to be fitted against opposite outer surfaces of a broom head, flexible end pieces adapted to be fitted around the side edges of the broom head, bolts extending through aligned openings in the bars and the flexible end pieces securing the bars and end pieces together, said bolts also being adapted to pass through the broom head, securing the bars and flexible end pieces together, securing arms having eyes through which the bolts extend holding said securing arms in position between said bars, the free ends of said securing arms being extended at right angles with respect to the main portions of the arms, the extremities of the right-angled portions extending at right angles to the first-mentioned right-angled portions and adapted to be extended between broom straws of the head of the broom, securing the bridle against movement longitudinally of the broom head.

2,593,141
VISUAL CELESTIAL NAVIGATION INSTRUMENT
Frederick H. Hagner, San Antonio, Tex.
Application November 19, 1947, Serial No. 786,845
6 Claims. (Cl. 33—61)



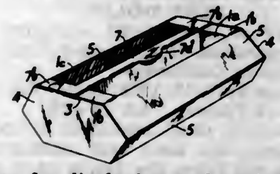
1. A visual celestial navigation instrument comprising a support having a light-receiving opening through which a ray of light from a celestial body is adapted to pass, gimbal rings secured to said support, a hanger band suspended from one of said rings, an azimuth scale carried by one of the rings, an altitude and zenith distance arc pivoted to the hanger band centrally of the ends of said band and extending to the azimuth scale, an index adjustable longitudinally of the arc, a transparent semisphere carried by the support upon which a light spot from a celestial body is adapted to be cast after passing through said light-receiving opening, said arc and index being adjustable to register with said light spot on said semisphere, and a scale carried by said arc to measure the distance on said arc between the index and the azimuth scale to give the altitude of the observed body and to measure the distance between the index and the pivot of the arc to give the zenith distance, the position of the arc relative to the azimuth scale indicating the relative bearing of the observer.

2,593,142
ASH TRAY
Philip S. Harper, Chicago, Ill., assignor to Harper-Wyman Company, Chicago, Ill., a corporation of Illinois
Application April 1, 1946, Serial No. 658,706
15 Claims. (Cl. 131—235)



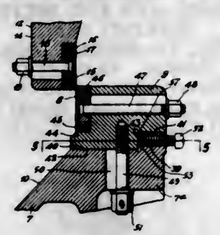
1. Ash receiving apparatus, including in combination, structure defining a debris receiving opening, a closure member having a spherical external surface normally closing said opening, means supporting said member for movement about a fixed axis, said closure member having an external groove extending lengthwise relative to the direction of movement of said member, and means including an actuating element extending above the structure in line with said groove and having a single fixed pivot connection with said closure member for moving the latter to its open position.

2,593,143
DISPLAY CARTON AND BOX
Walter T. S. Hendrick, London, England, assignor to J. Lyons & Company Limited, London, England, a British company
Application March 22, 1950, Serial No. 151,239
In Great Britain March 28, 1949
2 Claims. (Cl. 206—45.31)



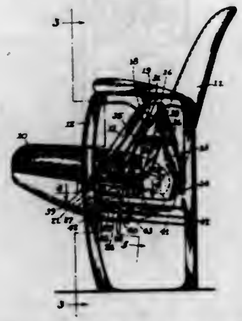
2. A box for displaying and containing articles produced from a single blank cut and folded to form a bottom panel, side panels, vertical hexagonal end panels, a reinforcing panel parallel to and adjacent to each of said end panels, a top panel extending between the upper edges of each of said end panels and the reinforcing panel adjacent thereto, and a lid panel continuous with one of said side panels and adapted to bend upwardly from a position in which said lid panel rests on said top panels, said lid panel comprising marginal portions, a narrow central portion extending between said marginal portions, a lifting tab adapted to bend upwardly from said central portion, and tongue portions continuous with and extending on either side of said central portion and adapted to bend downwardly from a position in the plane of said central and marginal portions, in which position the lid panel is adapted to provide a hinged cover for the box to a position to provide a wedge-shaped partition extending between said reinforcing panels.

2,593,144
ALLIGATOR SHEAR BLADE MOUNTING
Lad L. Hercik, Lakewood, Ohio
Application August 14, 1947, Serial No. 768,657
5 Claims. (Cl. 164—58)



1. A device of the character described, comprising: supporting means having a seating surface, and blade carrying means having a seating surface, the latter seating surface being slidable upon the seating surface of said supporting means, one of said means also having a portion projecting angularly from the plane of said seating surfaces, said portion having an offset seating surface engageable with a corresponding offset seating surface on the other of said means; and adjustable elements cooperable with said angular portion and with the other of said means, for adjustably positioning one of said means with respect to the other.

2,593,145
RETRACTING TYPE THEATER CHAIR
Alfred C. Hoven, Walter E. Nordmark, and William S. Lindberg, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Original application November 5, 1947, Serial No. 784,182. Divided and this application March 7, 1950, Serial No. 148,228
9 Claims. (Cl. 155—116)

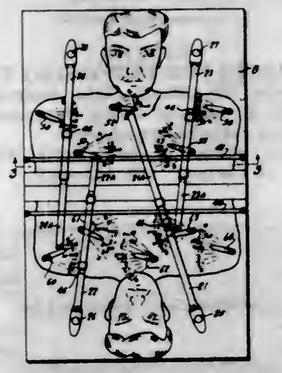


1. In a chair, a frame, a seat and back assembly, upstanding links having their lower ends pivotally connected to the frame and their upper ends pivotally connected to the seat and back assembly, depending links having their upper ends pivotally connected to the frame forwardly of the upstanding links and having their lower ends connected to the seat and back assembly, connecting links connecting the upstanding links to the depending links intermediate their upper and lower ends, and stop means for limiting the forward and rearward movements of the seat and back assembly.

2,593,146
LAMINATED PAPER CONTAINING ACTIVATED CARBON
Fred Howard, Leigh, England, assignor to Sutcliffe, Speakman & Company Limited, Leigh, England, a British joint-stock corporation
No Drawing. Application November 26, 1946, Serial No. 712,241. In Great Britain October 19, 1945
3 Claims. (Cl. 154—50)

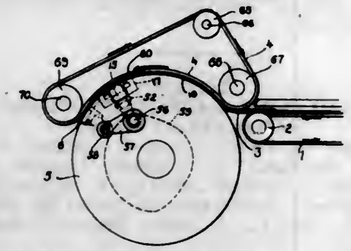
1. A laminated paper sheet for packaging foodstuffs for preventing the passage therethrough of food odors, comprising inner and outer layers of paper secured together, one of said layers being substantially impervious and the other of said layers having finely divided activated carbon particles uniformly distributed throughout, which acts to adsorb food odors and thereby prevents the passage of said odors into or out of the paper sheet.

2,593,147
BOXING GAME
Charles L. Hubbard, Detroit, Mich.
Application September 18, 1947, Serial No. 774,806
7 Claims. (Cl. 273—85)



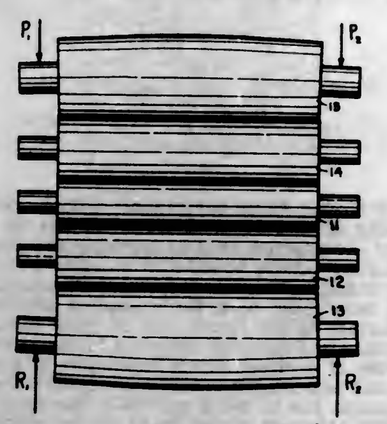
1. A boxing game comprising a board with a plurality of individual indicator means on each side of a centerline thereof movably attached to the surface of the board and movable to a plurality of indicative positions, each indicator means being responsive to a force applied parallel to the surface of the board, one or more manually operable arms movably attached to the board on one side of said centerline extensible to a point over said centerline to exert force on said indicator means, one or more manually operable arms movably attached to the board on the other side of said centerline extensible to a point over said centerline to exert force on said individual indicator means, the manually operable arms each consisting of one member pivoted to the board and another member slidably mounted on the pivoted member, each having ends bent to contact and move on the board surface.

2,593,148
SHEET REGISTERING MECHANISM FOR PRINTING
William F. Huck, Forest Hills, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application September 27, 1946, Serial No. 699,937
5 Claims. (Cl. 271—52)



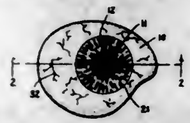
1. In a sheet registering mechanism, and in combination, a registering cylinder having an axially extending groove in its surface and an axially reciprocable bar slidably mounted therein, an arcuate shell attached to said bar for reciprocation therewith and extending around the cylinder through a multiple of the arc subtended by the groove, tapes for pressing a sheet against the cylinder, means for positioning and tensioning the tapes, the said tapes being so tensioned and positioned and the arc of the said shell being such as to exert a lateral registering traction upon the sheet upon movement of said shell, and the tape positioning means being constructed to provide for slight lateral shifting of the tapes by the sheet as the sheet moves laterally in response to said lateral registering traction, and means for moving said bar so as to move the shell and register the sheet laterally.

2,593,149
APPARATUS FOR EMBOSSING PAPER
Paul R. Illner, Hamilton, Ohio, assignor to The Champion Paper and Fibre Company, Hamilton, Ohio, a corporation of Ohio
Application October 17, 1946, Serial No. 703,768
2 Claims. (Cl. 101—23)



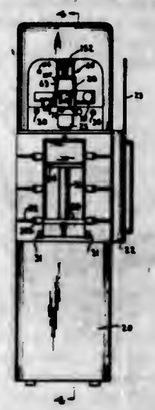
1. An embossing calender comprising an engraved metallic embossing roll cooperating with a yielding-surfaced embossing roll which is parallel thereto, each of said rolls being of uniform diameter throughout its length, and means for pressing said embossing rolls together with substantially uniform pressure throughout the width of the web being embossed, said means comprising: a pair of metallic pressure-exerting rolls disposed with their axes on opposite sides of and substantially in the same plane with the axes of said embossing rolls; a yielding-surfaced pressure-transmitting roll, with its axis substantially in the same plane, interposed between the engraved metallic roll and the associated metallic pressure-exerting roll; and means for applying opposed pressures to the journals of said metallic pressure-exerting rolls; said pressure-exerting rolls being slightly crowned to adapt them to transmit the pressure applied to their journals and apply it to the surfaces of the embossing rolls substantially uniformly distributed along the length thereof.

2,593,150
ARTIFICIAL EYE AND METHOD OF MAKING SAME
Fritz W. Jardon, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application April 2, 1948, Serial No. 18,514
21 Claims. (Cl. 3—13)



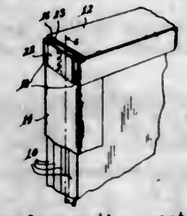
1. An artificial eye comprising a ball portion formed of translucent plastic material, an outer layer of transparent plastic material, and an iris portion interposed therebetween, said iris portion comprising a transparent disc member having a surface with a plurality of indentations therein filled with pigment and arranged to about the level of the surface to simulate the fibrous iris pattern appearance desired of the resultant iris, and a base coating of opaque coloring material disposed intermediate said surface and the ball portion to be visible through said iris pattern to produce the resultant appearance desired of said iris portion.

2,593,151
DISPENSING MACHINE
Frederick Orlo Johnson, Birmingham, Mich.
Application January 18, 1947, Serial No. 722,893
3 Claims. (Cl. 31—12)



1. A dispensing machine adapted on each operation to extrude, cut-off and dispense a predetermined portion of an extrudable bulk material, said machine including an extrusion orifice, power means for extruding an extrudable material through said orifice, an adjustable control system actuated by the material as extruded through said orifice for regulating the extent of permitted extrusion of said extruded material, said control system comprising a photo-electric control circuit, a light source adapted to throw a light beam across said orifice to activate a photo-electric cell in said photo-electric control circuit until the path of said beam is cut by the material extruded from said orifice, a power actuated cut-off mechanism adapted to cut-off a predetermined thickness of extruded material, and a counting device actuated by said cut-off mechanism to record the number of operations of the unit.

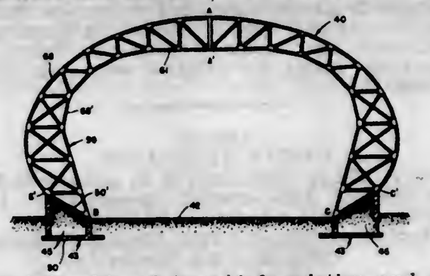
2,593,152
PANEL CRATING STRUCTURE
Leonard W. Johnson and Herbert W. Pottle, Amesbury, Mass., assignors to The Bailey Company, Inc., Amesbury, Mass., a corporation of Massachusetts
Application October 14, 1948, Serial No. 54,382
6 Claims. (Cl. 206—60)



1. A structure for crating rectangular panels, comprising a plurality of sheet metal channel elements adapted to engage over the edges of one or more panels, means at an end of each of two of said channel elements whereby said ends of said two channel elements fit together to provide a right-angular juncture of the elements with the channels open inward, a tongue integral with one of said channel elements at said fitted end thereof, and a generally flat body of metal at said fitted end of the other channel element, integral with and displaced out of the plane of a wall of said other channel element, said displaced body extending transversely of the general direction of extent of said tongue, said tongue being inserted behind said displaced body and being bent back over upon the said body, thereby to effect a secure inter-lock between the two said channel elements.

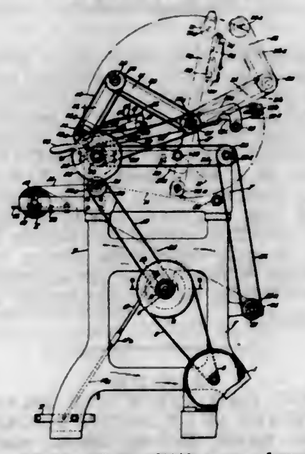
2,593,153
STORAGE TANK
William Eugene Joor, Jr., Washington, D. C.
Application June 7, 1946, Serial No. 675,105
8 Claims. (Cl. 220—1)

1. A closed pressure storage tank for storing volatile liquids, at least a substantial portion of which is spheroidal in vertical medidian section, said tank comprising a peripheral concrete foundation and a plurality of roof, wall and bottom plates, a vertical column disposed centrally of the tank, said bottom and said roof being connected to said column, said column including a mass the weight of which is sufficient completely to resist normal upward vertical forces imposed on that portion of the roof adjacent to said column by gases within the tank, thereby to relieve said bottom of said forces, and a plurality of spaced three-hinge trussed arches extending from said column and being normal to said plates, said arches supporting said roof and said side walls, one of the terminal ends of each



arch being hinged to said foundation and the other terminal end of each arch being hinged to said column.

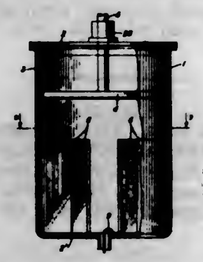
2,593,154
MACHINE FOR CUTTING WEBS OF MATERIAL INTO STRIPS
David N. Judelson, Park Ridge, N. J.
Application January 18, 1950, Serial No. 139,163
7 Claims. (Cl. 164—65)



1. A machine for slitting a longitudinally moving web of material into longitudinal strips, said machine having a machine frame, said machine comprising a rotatable main take-up shaft which is rotatably mounted in said machine frame to rotate about a fixed axis to wind said strips spirally in respective main strip-rolls, a rotatable idler cutting drum which is located anterior said main take-up shaft, said web being guided to contact with said cutting drum in a slitting zone which is anterior said main take-up shaft, said idler drum being rotatably connected to a drum-mount which is connected movably to said machine frame, said idler drum being biased towards said main take-up shaft to be pressed against said main strip-rolls, slitting devices located in said slitting zone and biased towards said idler cutting drum to slit said fabric in said slitting zone, said strips being guided to contact with said idler cutting drum between said slitting zone and said main strip-rolls, an auxiliary and rotatable take-up shaft which is rotatably connected to a shaft-mount which is connected movably to said machine frame, said auxiliary take-up shaft being operative to wind some of said strips spirally thereon in respective

auxiliary strip-rolls, said auxiliary shaft being biased towards said idler drum to contact said idler drum and to press said auxiliary strip-rolls frictionally against said idler drum, and means for rotating said take-up shafts simultaneously, said main and auxiliary strip-rolls being the operating means for rotating said idler drum frictionally.

2,593,155
CAVITY RESONATOR
John P. Kinzer, Ridgefield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 7, 1947, Serial No. 733,224
1 Claim. (Cl. 178—44)



In combination, a tunable cavity resonator of high Q having a cylindrical side wall and parallel end walls, the upper end wall being a movable reflecting piston forming a peripheral gap with said side wall, a conductive coupling loop passing through the other end wall for exciting a TE_{01n} mode at a position of high field intensity therefor, a plurality of thin, equiangularly spaced conducting fins connected longitudinally to the side wall, said fins extending radially into said resonator to split degenerate modes and shift the frequency of extraneous TE_{rmn} modes, where $r>0$ to frequencies outside the tuning range of said resonator.

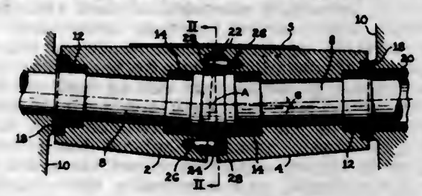
2,593,156
ETHYLENE OXIDATION AND SILVER ON MAGNETITE AS CATALYST THEREFOR
Frances W. Lamb, Detroit, Mich., assignor to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 9, 1950, Serial No. 200,125
4 Claims. (Cl. 260—348.5)

1. An oxidation catalyst consisting essentially of silver and a support for said silver consisting essentially of Fe_3O_4 having the crystal structure of a spinel and having deposited thereon 4 to 20 per cent of silver oxide.

2. A process for making ethylene oxide comprising reacting ethylene with oxygen in the presence of silver oxidation catalyst supported by Fe_3O_4.

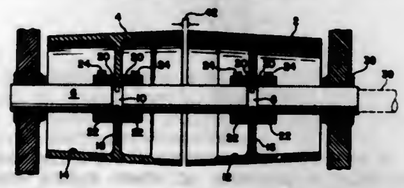
2,593,157
APPARATUS FOR POSITIONING STRIP
Edwin T. Lorig, Pittsburgh, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application June 4, 1949, Serial No. 97,218
6 Claims. (Cl. 271—2.6)

1. Apparatus for automatically centering a moving object comprising a pair of fixed spaced apart bearings, a shaft mounted in each of said bearings and extending toward the other bearing, said shafts being arranged at an angle to one another with their axes intersecting at a point between the bearings and diverging away from the direction of approach of the object, the axes of said shafts being arranged at an angle to a plane parallel to the path of move-



ment of the object, a pair of opposed rotatable rolls over which the object passes one mounted on each shaft, and a connection between said rolls for positively causing them to rotate at the same angular velocity.

2,593,158
APPARATUS FOR POSITIONING STRIP
Edwin T. Lorig, Pittsburgh, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application February 23, 1950, Serial No. 145,648
17 Claims. (Cl. 271—2.6)

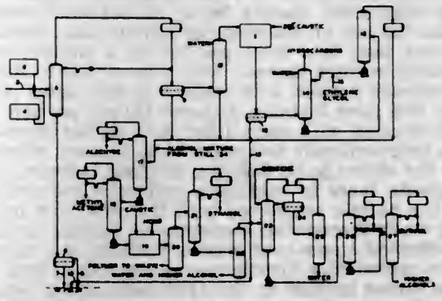


1. Apparatus for positioning a moving object comprising a pair of coaxially opposed and spaced rotatable rims over which the object passes in a direction transverse to the axes of the rims, spaced coaxial shaft sections, a shaft extension for at least one of said shaft sections extending outwardly beyond said rims and adapted to be supported in bearing means, means for supporting said rims on said shaft sections for limited and progressive deflection of the adjacent peripheral ends of said rims adjacent the initial point of contact with the moving object in a direction transverse to the axes of the shaft sections, resilient means forming part of said rim supporting means for limiting deflection of said peripheral ends imposed thereon by the object, and means for positively causing one of said rims to rotate in the same direction and at the same angular velocity as the other rim.

2,593,159
PROCESSING OF SYNTHETIC HYDROCARBONS
Ignace L. Maim, Tallant, Okla., assignor to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware
Application March 9, 1948, Serial No. 13,924
4 Claims. (Cl. 260—450)

1. The process of purifying a mixture of synthetically produced organic materials including hydrocarbons, oxygenated organic compounds and water, which comprises subjecting the mixture of oily and aqueous products to a joint fractional distillation to recover an overhead product comprising light hydrocarbons, water, a large percentage of the carbonyls and alcohols contained in the charge stock and a small percentage of the

acids contained therein, and a bottoms product comprising heavier hydrocarbons, water, a large percentage of the acids contained in the charging stock and a small percentage of the carbonyls and alcohols contained therein, separating the bottoms product into oily and aqueous layers, subjecting the aqueous layer to a second fractional distillation, whereby to separate therefrom an overhead product containing carbonyls and



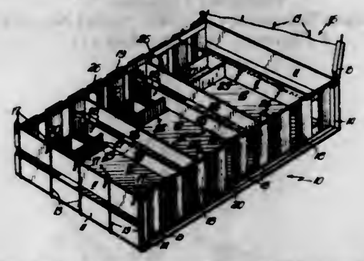
alcohols, and a bottoms product containing organic acids, purifying the bottoms product by azeotropic distillation with butyl acetate, recovering partially purified organic acids as a bottoms product from the azeotropic distillation, further purifying the acids by treatment with concentrated sulfuric acid, and fractionating the resultant purified organic acids to recover their individual organic acid constituents in substantially pure form.

2,593,160
WINDOW STRUCTURE
Lory Mancini, Los Angeles, Calif.
Application April 15, 1949, Serial No. 87,704
2 Claims. (Cl. 160—187)



1. In a window structure, the combination of a frame, and an articulated sash unit mounted in said frame and including a top panel, an intermediate panel and a bottom panel, pairs of laterally projecting studs provided adjacent the respective lower and upper edges of the top and intermediate panels and rotatably journalled in opposite sides of said frame, a pair of links pivotally mounted at the opposite sides of the intermediate and bottom panels and swingably connecting the same together, and means for sustaining said panels in an open position.

2,593,161
SHIPPING CRATE FOR LIVESTOCK
Arthur O. Manger, Philadelphia, Pa., and Edward A. Tomlin, Jr., Hampton, Conn., assignors, by mesne assignments, to Rathborne, Hair & Ridgway Box Co., Chicago, Ill., a corporation of Illinois
Application December 30, 1948, Serial No. 68,196
6 Claims. (Cl. 119—18)



1. In a shipping container for livestock having secured-together pairs of side and end walls, a floor and a cover member, the improvement comprising a removable longitudinal partition arranged along said floor between the end walls and resting directly on said floor in spaced relation with respect to the side walls to provide a feeding trough, and a removable transverse partition spaced above said floor, the ends of which are mounted in apertures in the side walls, said transverse partition being slotted and interlockingly engaging at the slot thereof said longitudinal partition to hold the same in erect and spaced apart position with respect to said side walls.

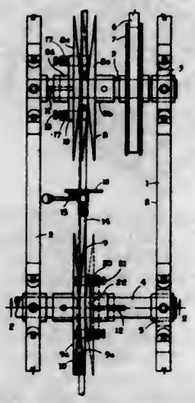
2,593,162
EYE-STAY ASSEMBLY FOR FABRIC FASTENING
Louis Markin, Chicago, Ill., assignor, by mesne assignments, to Hook-Flex Company, Chicago, Ill., a copartnership
Application August 24, 1949, Serial No. 112,120
8 Claims. (Cl. 24—227)



8. For fastening a fabric fly to one flap of which is affixed a hook, an eye stay assembly carried by the other fly flap, the eye being elongated with parallel prongs extending transversely from its opposite ends, and stop shoulders at the juncture of the prongs with the eye, the prongs being adapted for insertion through the flap fabric to the extent permitted by engagement of the shoulders with one side thereof at which point the major length of the prongs is disposed to the opposite side of the fabric, and the eye between the two sets of stop shoulders being extended to lie spaced from the fabric a distance sufficient to accommodate, for the full length of the space between the eye and the fabric, the coacting hook on the fly flap first named, and a base plate opposite the eye disposed on the fabric side reached by the prongs, consisting of a stay formed near each end with a slot through which one prong may be passed to guide each prong in its extension from one face of the stay to the opposite face thereof and adjacent thereto to oppose the stop shoulders with an increased resistance, the

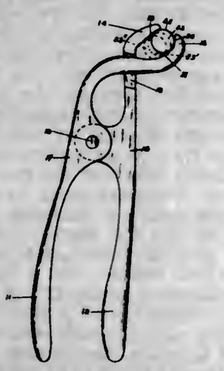
prongs, when clinched against the stay, extending longitudinally thereof and the stay forming a housing for the prongs to reduce obtrusion of the prongs.

2,593,163
VARIABLE-SPEED TRANSMISSION
Mackay Ross Matheson, Leamington, Ontario, Canada
Application November 1, 1949, Serial No. 124,777
2 Claims. (Cl. 74—230.17)



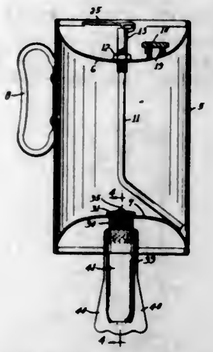
2. In a variable speed transmission; a driving shaft and a driven shaft; a two-part cone pulley on each shaft, one part of each pulley being fixed on its shaft and the other part slidable on its shaft, said fixed and slidable parts being in reversed position on the said respective shafts; an endless V-belt operatively connecting said pulleys; a manually rotatable control shaft extending beneath said driving and driven shafts and transversely thereof and substantially underlying said belt; radial arms extending from said control shaft and at divergent angles, in substantial registry with each of said respective pulley shafts; and pressure applying screws threaded through the free ends of each of said arms having adjustable connection with the outer faces of the respective slidable parts of said pulleys.

2,593,164
PLIERS FOR ROUND WORK
Harold L. McAdoo, Bartlesville, Okla.
Application November 12, 1946, Serial No. 709,380
3 Claims. (Cl. 81—44)



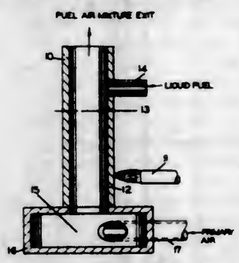
1. In pliers, the combination of a pair of handles, one of said handles being curved to fit the operator's hand and considered the stationary handle, the other handle being substantially straight and considered the movable handle, each of said handles having an intermediate section, said sections pivotally connected together by a pintle, a jaw formed integral with each of said handles, said jaws crossing each other and having adjacent operating surfaces, the jaw on the movable handle forming a short outer jaw with lateral teeth on its operating surface, the jaw on the stationary handle being off-set and longer than the jaw on the movable handle and forming a rear jaw, said rear jaw having a smooth operating surface thereon which is curved to form a concave portion with respect to said outer jaw, the two jaws forming a closed throat portion in conjunction with each other, said throat extending longitudinally and rearwardly thereof, whereby the object to be moved is grasped between the opposite faces of said jaws and upon movement of the handle connected with the outer jaw having teeth thereon an elevating or turning action is effected upon said object, turning the object in a rearwardly direction into the closed end of the throat formed by the jaws, said action being due to the lateral teeth on the outer jaw solely preventing slipping of the object thereon while the smooth surface upon the rear jaw permits slipping of the object thereon when pressure is applied to the handle connected with the outer jaw having teeth thereon.

2,593,165
AEROSOL INSECTICIDE BOMB
Floyd J. Metzger, New York, N. Y.
Application September 30, 1948, Serial No. 52,034
2 Claims. (Cl. 299—95)



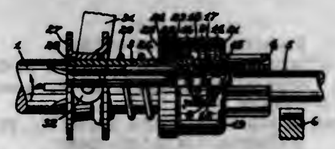
1. An aerosol insecticide bomb comprising a receptacle having upper and lower ends and a filling opening, a closure for the filling opening, an outlet tube extending through the upper end and to a point adjacent the lower end within the receptacle, a valve within said tube, a flexible diaphragm extending entirely across and sealing the upper end of said tube, means positioned outwardly of the diaphragm and acting against the outer side thereof for actuating the valve, said tube having a capillary opening between the diaphragm and the valve to release the contents of the receptacle as a spray, an inlet connection in a wall of the receptacle having a piercing member and non-return valve means, a member removably connected to the inlet connection having a recess for a capsule containing a liquefied gas, and means for causing relative movement between said member and the piercing member to cause the piercing member to pierce a capsule of liquefied gas held in said recess.

2,593,166
OIL VAPORIZER
Hugo Hubertus Mettivier Meyer, Dobbs Ferry, N. Y., assignor to Philips Laboratories, Inc., Irvington-on-Hudson, N. Y.
Application November 25, 1947, Serial No. 787,987
2 Claims. (Cl. 48—107)



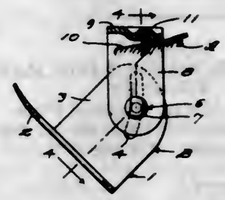
1. A fuel oil vaporizer comprising a first unobstructed chamber of tubular form and having openings at each end, one of said ends being positioned higher than the other, a heating means positioned outside said chamber for directing heat against the side thereof so as to establish by conduction a temperature gradient on a portion of the interior surface of said first chamber which is at the lower of said ends, a duct means entering said first chamber at a region above said temperature gradient, said duct means being arranged to deliver a liquid fuel to said first chamber in such manner that the liquid fuel will flow down the unobstructed interior surface of said first chamber, said temperature gradient decreasing in value in the direction toward said duct means, a second chamber arranged in open communication with said first chamber by the opening in the lower end of said tubular form, said second chamber having a curved wall portion disposed about the common axis of said chambers, and an inlet means opening into said second chamber through said curved wall portion and directed substantially tangentially thereof whereby a gaseous medium being forced into said second chamber will rotate therein and be caused to flow in a turbulent manner through said first chamber in the direction towards said duct means and escape through the upper open end of said first chamber after mixing with vaporized fuel oil therein.

2,593,167
ENGINE STARTER GEARING
Donald L. Miller, Herscheads, N. Y., assignor to Bendix Aviation Corporation, a corporation of Delaware
Application September 22, 1950, Serial No. 186,250
3 Claims. (Cl. 74—6)



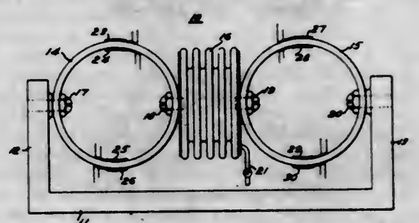
1. In engine starter gearing, a power shaft, a hollow sleeve splined thereon, formed on one end with inclined driving surfaces, a clutch ring having on one end inclined driven surfaces cooperating with the inclined surfaces of the sleeve, and on the other end having overrunning clutch teeth; a pinion slidably journalled on the driving shaft, a driven overrunning clutch member fixed to the pinion having teeth cooperating with those of the clutch ring, said clutch ring and sleeve having circumferential shoulders, a compression spring on the sleeve and ring between said shoulders, and means including a barrel member surrounding the clutch members for yieldingly limiting the separation of the clutch members and sleeve.

2,593,168
HAIR CLIPPER GUIDE
Clyde W. Monyhan, Evansville, Ind.
Application December 9, 1946, Serial No. 714,990
1 Claim. (Cl. 30—201)



An attachment for hair clippers of the motor operated or vibrator type, comprising an adjustable guide for regulating the length of hair cut, said guide consisting of a bottom plate provided at opposite inner corners with upwardly extending ears formed with transverse curved slots, an approximately U-shaped strap of uniform width for supporting the adjustable guide on the nose of the clippers, said strap arranged with its legs disposed in an inwardly inclined position and fitting against the inner faces of the corresponding ears of the adjustable guide, screws extending through the legs of said U-shaped strap and the slots of said ears, nuts screwing on said screws against the outer faces of said slotted ears, and a screw for fastening the body portion of said strap to the top wall of the nose of the clipper.

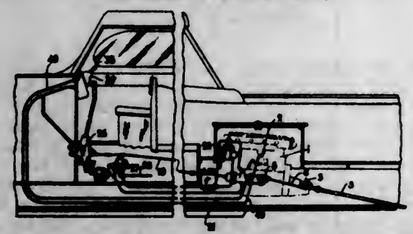
2,593,169
FLUID PRESSURE MEASURING APPARATUS
John H. Moore, Springfield, Pa., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania
Application September 6, 1945, Serial No. 614,765
10 Claims. (Cl. 73—398)



8. Condition responsive apparatus comprising, in combination, a pair of movable elastic members, means for commonly supporting the same so that when elastically moved together in a common direction they are deformed to produce strains therein of opposite sense or when moved relative to each other they are deformed to produce strains therein of the same sense, condition responsive means connected to said members to effect said elastic movement in said common direction or to elastically move said members relative to each other in response to a variation of the condition, an electrical strain sensitive element connected to one of said members so as to

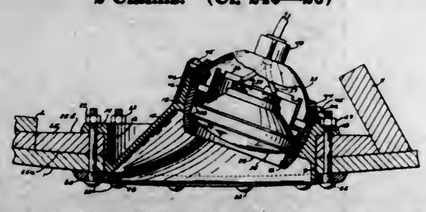
be subject to said strain in one sense upon occurrence of elastic movement of that member relative to the other member, another electrical strain sensitive element connected to the other of said members so as to be subject to said strain in the opposite sense when said members elastically move together in the same direction, and an electrical bridge circuit having two of its opposite arms containing the sensitive elements of said members whereby the circuit has an electrical output when said members elastically move relative to each other and has no output when said members elastically move together in said common direction.

2,593,170
CONTROL MECHANISM FOR MARINE ENGINES
John F. Morse, Hudson, Ohio
Application January 29, 1946, Serial No. 644,033
14 Claims. (Cl. 74—472)



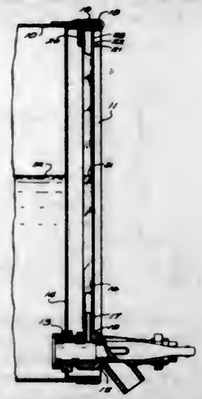
1. In a marine control system, for use with an engine having a reversible transmission, a throttle lever for controlling the speed of the engine, a control lever for shifting the transmission, a stop in the path of the throttle lever and adapted to arrest the movement of the throttle lever at a point intermediate the limits of its movement, and means acting concurrently with the movement of the control lever when the transmission is shifted from forward into reverse to move the throttle lever against the stop.

2,593,171
ADJUSTABLE LIGHT FOR INSERTION IN THE HULL OF BOATS
John F. Morse, Hudson, Ohio
Application November 30, 1948, Serial No. 62,680
2 Claims. (Cl. 240—26)



1. A docking light adapted for mounting in the hull of a vessel, said light comprising a frame having an outer cylindrical wall, means defining a frusto-conical well in the frame with its axis at an acute angle to the elements of said cylindrical wall, a seat at the base of the well and offset from the geometric center of said cylindrical wall; a lamp housing adjustably fitted in the seat, means to clamp the housing in adjusted position in the seat, a flexible ring surrounding the outer margin of said cylindrical wall, and means cooperating with the frame to draw said ring against the outer surface of a boat hull, so as to conform it to the curvature thereof and render the assembly waterproof.

2,593,172
OIL GAUGE FOR OIL DRUMS
Albert Neumann, Milwaukee, Wis.
Application February 21, 1949, Serial No. 77,580
1 Claim. (Cl. 73—323)

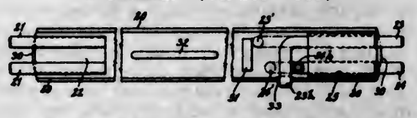


A liquid level gauge for an oil drum including a transparent semi-flexible plastic tube having an internal thread at the lower end thereof, a threaded spigot having an upwardly directed nipple threadingly engaged in the lower end of said tube, an S-shaped spring clip detachably receiving the end rim of the oil drum between its upper and central loop, the lower loop of said clip being provided with an aperture receiving and retaining the upper end of said tube spaced inwardly of said rim edge.

2,593,173
PROCESS OF REFINING CHEMICAL PULP
Turma Norta and Yrjö Sivola, Imatra, Finland, assignors to Enso-Gutzeit Osakeyhtiö, Helsinki, Finland, a corporation of the Community of Jaaski in the Republic of Finland
No Drawing. Application July 31, 1947, Serial No. 765,248. In Sweden October 30, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires October 30, 1963
5 Claims. (Cl. 8—105)

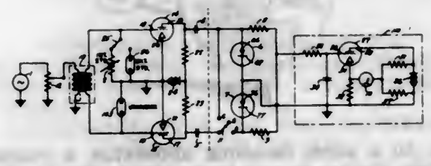
1. A process of making refined chemical pulp comprising, selecting washed, defibered and strained chemical pulp, chlorinating such pulp at room temperature, forming such pulp into a 1–15% aqueous suspension partially washed with water, and heating such pulp at a temperature above room temperature but not over 100° C. for a period of time of about 10 to 200 minutes at a pH value lower than 5.

2,593,174
PERMANENT DUNNAGE
Thomas O'Dell, Muncie, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 16, 1949, Serial No. 81,677
2 Claims. (Cl. 105—369)



1. In a permanent dunnage for a vehicle comprising the combination of plates which form directly opposite, interior side wall portions of the vehicle near the floor thereof, said plates being provided with holes arranged in horizontal staggered rows above the floor and a load bracing bar of a length slightly less than the horizontal spacing of the plates; a pair of fixed pins extending from one end of the bar and adapted to be received by certain holes in one of the plates, a pair of slidable pins of different lengths supported at the other end of the bar for longitudinal movement relative to the bar and adapted to be received by certain holes in the other plate, said pins having handles with the handle of the longer pin extending transversely to the direction of movement of the pins, said handle being received by a notch of the bar by turning said handle behind the handle of shorter pin which, if extended permits movement of the handle of the longer pin into the notch of the bar, said handle of the longer pin when located in the notch of the bar preventing accidental dislodgment of both slidable pins.

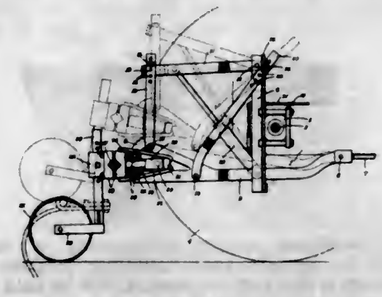
2,593,175
ELECTRIC METHOD AND SYSTEM FOR MEASURING IMPEDANCE MAGNITUDE AND PHASE ANGLE
Lucius E. Packard, Concord, and Hermon H. Scott, Lincoln, Mass., assignors to Technology Instrument Corporation, Waltham, Mass., a corporation of Massachusetts
Application July 8, 1947, Serial No. 759,598
11 Claims. (Cl. 175—183)



8. The combination comprising a source of alternating current, an impedance of known characteristic adapted to be connected in a circuit with an unknown impedance and with said alternating current source, high impedance vacuum tube means for deriving voltages proportional to the voltages appearing across said impedances without substantial change of current therethrough, a direct current meter, circuit means including a three-position switch and two rectifiers for connecting said meter to indicate the ratio between the voltages appearing across said impedances in one position of said switch, another position of said switch connecting said meter and one rectifier across one of said impedances, means for varying the potential applied from said alternating current source to produce a predetermined deflection of said meter, another position of said switch vectorially combining voltages derived from said impedances and supplying said combined voltages to one of said rectifiers whereby said meter indicates the phase angle between the voltage and current of said unknown impedance.

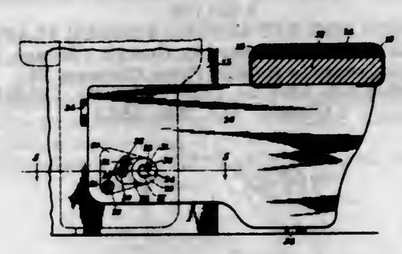
2,593,176
TOOL BAR MOUNTING
Edie J. Patterson, Stockton, Calif.
Application February 16, 1946, Serial No. 648,104
3 Claims. (Cl. 97—47)

1. In combination with a pair of spaced-apart draft beams attached to a tractor; a pair of clamps for engagement about a tool bar, means swivelly connecting the clamps to the ends of the draft beams, such means including a sleeve extending lengthwise of the tractor and mounted on the end of each draft beam, a spindle rigid with and projecting from each clamp and turnably mounted in one of the sleeves, means to maintain each spindle in its corresponding sleeve; each sleeve being pivoted on its corresponding



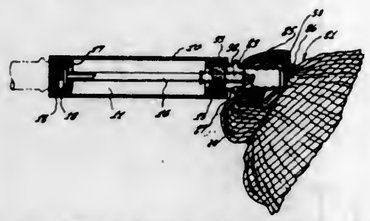
draft beam for vertical swinging adjustment relative to and in a plane lengthwise of such beam, and means to fix the sleeve to the beam in any adjusted position.

2,593,177
PIVOT MOUNTING FOR KNEELER RESTS OR SIMILARLY MOUNTED ARTICLES
Robert C. Patterson, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application February 3, 1947, Serial No. 726,066
2 Claims. (Cl. 155—166)



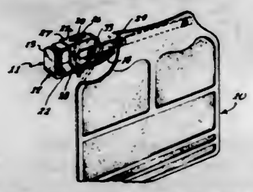
1. In a structure of the class described: spaced upright pew supports; a kneeler rest extending between said pew supports and comprising a horizontal kneeler bar and parallel arms extending laterally from the opposite ends of said kneeler bar adjacent the pew supports respectively; socket members secured to the pew supports and extending mutually inwardly therefrom, said members having horizontally aligned substantially cylindrical sockets therein and having gates extending horizontally rearwardly from the sockets through the walls of the socket members, said gates being of lesser vertical dimension than the diameter of the sockets; pintle members secured to the parallel arms respectively of the kneeler rest and having axially aligned, outwardly extending pintles thereon, said pintles being of substantially cylindrical segmental formation and being receivable through the gates of the socket members into turnable disposition within the sockets thereof whereby the kneeler rest is supported swingably about a horizontal axis to a lowered position for kneeling and to a raised position of non-use; the cylindrical segmental pintles being so disposed on the parallel arms of the kneeler rest as to present their smallest dimension to and thus be receivable and removable through said gates when the kneeler rest is in a swung position itnermediate its raised and lowered positions.

2,593,178
WASHING DEVICE
Milton Paul, Great Neck, N. Y.
Application November 13, 1948, Serial No. 59,917
2 Claims. (Cl. 15—129)



1. A washing device comprising a casing adapted to contain soap, coupling members on the opposite ends of the casing, one of said coupling members adapted to receive a hose, a scrubbing element received by the other of said coupling members, a tube extending between the coupling members and into the scrubbing element for the purpose of conducting water through the casing to a point within the scrubbing element, and a soap absorbing member surrounding the tube in the coupling member adjacent the scrubbing element in order to retain the soap within the casing against large outward flow and adapted to receive the back flow of the water in order to create within the scrubbing element a soap solution.

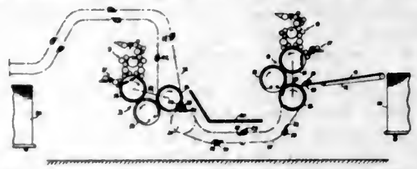
2,593,179
MEANS FOR ATTACHING FENDER FLAPS
Hyman Price and Edward B. George, Chicago, Ill., assignors to Hyman Price, Chicago, Ill.
Application April 25, 1950, Serial No. 158,028
7 Claims. (Cl. 280—154.5)



1. A clamp for supporting a device on an automobile fender comprising cooperating members each formed of flat metal stock and having two pairs of complemental legs, each pair being of different angular disposition so as to accommodate therebetween fender portions having different contours, means securing said members together whereby the clamp is held rigidly in place on a fender by pressure exerted thereon by a selected pair of legs, a bracket carried on one of said members, an arm pivotally mounted on said bracket, and a device supported on said arm.

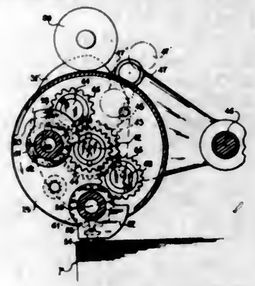
2,593,180
SHEET TRANSFER DEVICE FOR PERFECTING PRESSES
Howard A. Pritchard, Hiram, Ohio, assignor to Harris-Seybold Company, a corporation of Delaware
Application July 13, 1945, Serial No. 604,956
4 Claims. (Cl. 101—142)

2. In a sheet fed rotary perfecting offset printing press, two printing units each comprising an impression cylinder, an offset cylinder and a plate cylinder, an endless conveyor for transferring sheets from the first unit to the second unit, an idler cylinder in sheet transferring relation with the impression cylinder of one



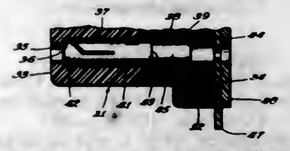
of said units, said conveyor running over said idler cylinder and over the impression cylinder of the other unit.

2,593,181
SHEET FEEDER
Howard A. Pritchard, Hiram, Ohio, assignor to Harris-Seybold Company, Cleveland, Ohio, a corporation of Delaware
Application July 30, 1946, Serial No. 687,074
23 Claims. (Cl. 271—27)



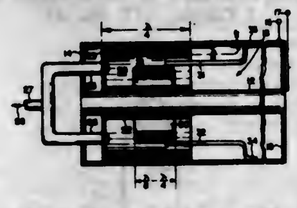
1. In a sheet handling apparatus, a rotating carrier having its axis transverse to the direction of feed, two angularly separated sheet gripping units pivotally mounted in said carrier, one of said units being adapted to take a sheet along a transverse edge thereof and move said edge inwardly in the general direction of the carrier axis, means for turning said units about their pivots during rotation of the carrier, said turning means causing the second unit to approach the gripped edge of the sheet, and means for causing the first unit to release the sheet and the second unit to grip it, said turning means causing the second unit to carry the gripped edge of the sheet away from the axis of the carrier at a point angularly spaced from the taking point.

2,593,182
MONOBLOCK CONNECTOR
Edward C. Quackenbush, Aurora, Ill., assignor to American Phenolic Corporation, Chicago, Ill., a corporation of Illinois
Application April 22, 1948, Serial No. 22,631
1 Claim. (Cl. 173—328)



In an electrical connector having a metallic housing with an open front end adapted to engage a mating connector, a contact mounting block of dielectric material; said block having side walls secured within the housing, an exposed front face surface adapted to abut the front face surface of a similar block in the mating connector and a rear surface enclosed within the housing; at least one contact cavity in said block, having a face orifice of relatively small diameter at the front surface of the block, with a rearwardly facing shoulder near the forward end of the cavity and an enlarged mounting portion of the cavity extending rearwardly from the shoulder; a metallic contact element having a mounting portion loosely fitted within the enlarged portion of the cavity; the mounting portion of said contact having a forwardly facing stop surface at one end and a rearwardly facing stop surface at its other end and being substantially shorter than the mounting block, with the forwardly facing stop surface positioned in engagement with the internal shoulder of the cavity to limit forward movement of the contact and the other stop surface positioned at a point substantially spaced inwardly from the rear face of the block to provide a relatively long surface distance between contacts at the rear of the block, together with an insulating spacing sleeve loosely fitted within the cavity and bearing against the rearwardly disposed stop surface to limit rearward movement of the contact, and a sealing sheet including perforations closely surrounding an electrical conductor leading from each contact and bearing against the end of the spacing sleeve to retain the sleeve and contact in position in the cavity.

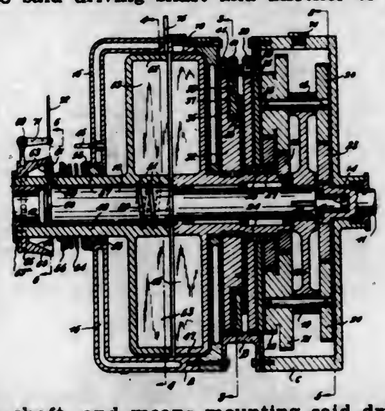
2,593,183
TUNABLE WAVE SIGNAL DEVICE
John A. Rado, Nutley, N. J., assignor to Hazeltine Research, Inc., Chicago, Ill., a corporation of Illinois
Application March 30, 1946, Serial No. 658,405
7 Claims. (Cl. 178—44)



4. A tunable wave-signal device adjustable over a given frequency range comprising, a wave-guiding structure including at least one longitudinally extending conductive surface, said structure defining a propagating space for electromagnetic waves, a short cup-shaped piston having an effective electrical length substantially equal to an odd integral multiple of one-quarter of the mean operating wave length of said device and being adjustable longitudinally of said propagating space to effect tuning of said device over said range, and a loading element supported within said piston for movement relative thereto during tuning of said device and positioned in a region of said propagating space subject to substantial longitudinal shifting of said fields during said tuning.

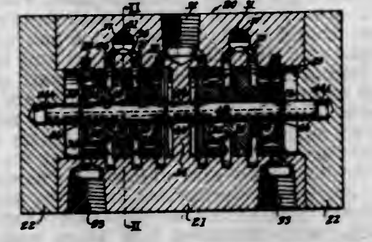
2,593,184
TRANSMISSION
Edwin G. Reed, Jr., Bethesda, Md.
Application December 12, 1947, Serial No. 791,278
14 Claims. (Cl. 74—688)

1. In a transmission comprising a fixed housing including a sealed casing adapted to be filled with a suitable liquid, driving and driven shafts extending into said housing and rotatably supported thereby, driving and driven fans in said casing arranged with a gap therebetween and coaxial with said shafts, a mechanical power train in said housing and including elements one of which is fixed to said driving shaft and another to said



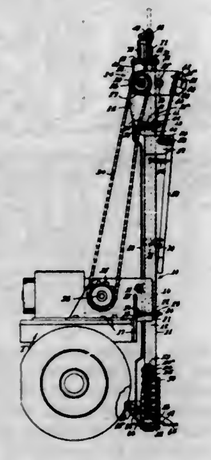
driven shaft, and means mounting said driving and driven fans and operatively interconnecting the same respectively with said driving shaft and a further element of said train and providing for relative axial movement between said fans automatically in response to operative conditions to vary the fan gap and thus the fluid torque transmitted between the driving and driven fans.

2,593,185
FLOW PROPORTIONING APPARATUS
Wendell E. Benick, Grove City, Ohio, assignor to The Denison Engineering Company, Columbus, Ohio, a corporation of Ohio
Application September 26, 1945, Serial No. 618,701
1 Claim. (Cl. 137—165)



A flow divider comprising casing means having an inlet port, a pair of outlet ports and a pair of chambers, each chamber being connected at one end with said inlet and at the opposite end with an outlet; a piston slidably received in each of said chambers, the end portions of said pistons cooperating with said casing to throttle communication between the ends of said chambers and the ports connected therewith; means establishing a lost motion connection between said pistons, said means providing for movement of said pistons in unison and limited relative movement therebetween, and a restricted fluid passage connecting the portions of each of said chambers at opposite ends of the piston therein, said pistons being responsive to the difference in fluid pressures at the outer end of each piston to throttle communication between either end of each chamber and the port connected therewith.

2,593,186
STAKE OR POST DRIVER
Clarence Richardson, Lake City, Iowa, assignor of one-half to Richard F. Blanchfield, Lake City, Iowa
Application December 31, 1949, Serial No. 136,307
8 Claims. (Cl. 61—74)



1. A stake or post driver comprising an upright guide means, a driving hammer positioned in said guide means and comprising a driving weight with an elongated arm attached thereto extending vertically upwards, gripping means for engaging the elongated arm of said driving hammer to elevate said driving hammer, said gripping means comprising a pair of rollers spaced apart and positioned to receive therebetween the elongated arm, a pair of shafts upon which said rollers are mounted, the distance between the centers of said shafts being fixed, a pair of plates adjacent said upright guide means and journalling therein said pair of shafts, a pair of gears fixedly mounted on said pair of shafts and meshing with each other, means for driving said rollers, and means for pivoting said plates around the axis of one of said shafts so that the rollers grip the elongated arm extending therebetween so as to elevate the driving hammer when the plates are pivoted in one direction, said rollers releasing said elongated arm when said plates are pivoted in the opposite direction.

2,593,187
WALKING DOLL
Morris Riechelson, Brooklyn, N. Y.
Application January 30, 1950, Serial No. 141,245
1 Claim. (Cl. 46—149)

A doll having a head, a body provided with openings adjacent the bottom thereof, legs joined to the said body, the upper ends of the legs extending into said body openings, the engagement being along spherical surfaces to provide for motion of said legs relative to said body, transverse aligned sleeves one for each leg extending along the bottom of said body, said sleeves being respectively pivotally connected to said legs, a bearing member intermediate said sleeves having its ends interfitted with the adjacent ends of said sleeves, a pin extending radially from each sleeve and upwardly into said body, a longitudinal oscillatory shaft mounted within said body and having its upper end connected within the head, the lower end of said shaft extending through said bearing



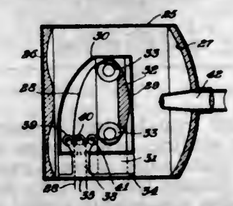
member radially thereof, and a plate carried by said shaft, said plate having connection with said pins so that oscillation of said shaft will move said legs forward and backward.

2,593,188
NOVELTY HAT CONSTRUCTION
Nathan Rikelman, Bronx, N. Y.
Application February 12, 1949, Serial No. 76,109
1 Claim. (Cl. 46—88)
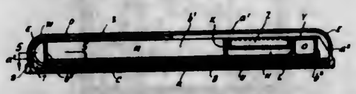


A novelty hat construction comprising an open top crown portion, an expandable portion connected to the crown portion and adapted to receive and discharge air and to be expanded by air when filled therewith under pressure, air pressure means connected to the expandable portion for inflating the expandable portion at the option of the wearer, and means associated with the expandable portion and operable when the expandable portion is placed under pressure to announce the swelling action thereof, and said announcing means comprising a lamp disposed in the expandable portion, a switch on the inner side of the crown portion having an arm adapted to be engaged by the expandable portion when inflated to effect its operation, an electric source connected to the crown portion and electric circuit means extending between the lamp, the switch and the electric source, whereby the lamp will be automatically lighted upon the expandable portion being inflated.

2,593,189
OPTICAL SYSTEM AND FILM GUIDE MEANS FOR CAMERAS, PROJECTORS, AND THE LIKE
Herre Rinia, Pieter Martinus van Alphen, Franciscus Lambertus van Weenen, Leopold Michael Lambert Joseph Leblans, and Albert Bouwers, Eindhoven, Netherlands, assignors, by mesne assignments, to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application April 18, 1946, Serial No. 662,966
In the Netherlands July 25, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 25, 1961
2 Claims. (Cl. 95—11)



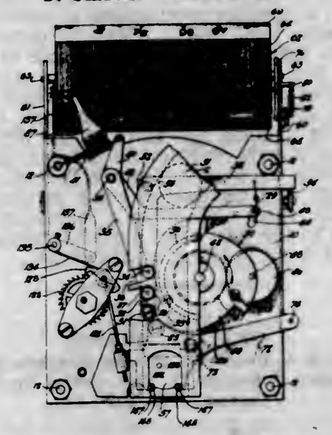
1. An optical device comprising a concave spherical mirror, an optical correcting element near the center of curvature of said mirror, a support having a convex supporting surface for an image carrier, said surface being positioned between said mirror and said correcting plate, opposed roller means for tensioning the said image carrier over the said surface substantially to coincide with the focal surface of said device, said tensioning means further comprising a pair of guide rollers each having a curved surface contour such that the film is given the required spherical curvature when it engages the convex supporting surface of said support, a guide channel for carrying the image carrier to and from the tensioning means, said image carrier being transported through said guide channel to said convex support and returned through said guide channel, said guide channel being provided with apertures therein for the passage of light therethrough in the absence of an image carrier in the channel, said image carrier having apertures therein spaced apart a distance such that the apertures in oppositely moving portions are coaxial with each other and with the apertures in the guide channel when the image carrier remains stationary in order to minimize the obstruction of light incident upon the reflecting mirror.

2,593,190
BOX
Maurice Henry Robin, Cheadle, England
Application May 24, 1947, Serial No. 750,323
In Great Britain December 18, 1946
8 Claims. (Cl. 220—41)



8. A box comprising an outer unitary shell open at top and bottom, an inner shell fitted into said outer shell and constituting a container open at the top, a roll-top lid, a base fitted into the bottom of said outer shell, said inner shell being spaced from the top of said outer shell and from said base to provide upper and lower tracks, said lid operating in said tracks, integral longitudinal shoulders along the sides and extending below the under face of said outer shell, the upper longitudinal edges of said inner shell being in contact with said shoulders to provide a pair of track spaces with said outer shell, the side walls of said inner shell being in substantial contact with the side walls of said outer shell, integral longitudinal ledges along the sides of the upper face of said base, upstanding lips along said sides of said base extending above said ledges, the lower longitudinal edges of said inner shell being in contact with said lips to provide a pair of track spaces with said base between said ledges and said inner shell, one end of said outer shell shoulders merging with the corresponding end of said base ledges to form a pair of continuous tracks, a compartment in said box having a vertical wall, a subsidiary lid for said compartment extending over said partition and adapted to be opened by pressure on the extension thereof, said subsidiary lid being adjacent to said first lid when the latter is closed and constituting means for preventing accidental opening of said subsidiary lid, said auxiliary lid having a depressed portion over said compartment to hold an article therein.

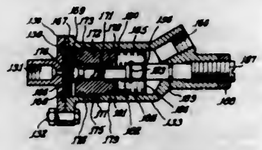
2,593,191
PARKING METER
David C. Rockola, Chicago, Ill., assignor, by mesne assignments, to The Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application December 5, 1945, Serial No. 632,901
17 Claims. (Cl. 194—1)



1. In a parking meter, power means comprising a timing gear train and a mechanism-actuating gear train, said gear trains being independently operable by said power means, a parking period indicating dial, an indicator movable relative to said dial from a zero position to a set position for indicating the beginning of a parking period and operable in the opposite direction by said timing gear train at a time-measuring velocity from said set position to said zero position, means actuated by the mechanism-actuating gear train for effecting movement of the indicator from the zero position to the set position, releasable brake means retaining said actuating train against operation, releasable damper means for interrupting the operation of said timing gear train, means actuatable in response to actuation of the mechanism-actuating gear train for effecting the release of said damper to a position for permitting the operation of said timing train, releasable latch means for coupling said indicator to said timing gear train, said latch means being releasable in response to the actuation of the

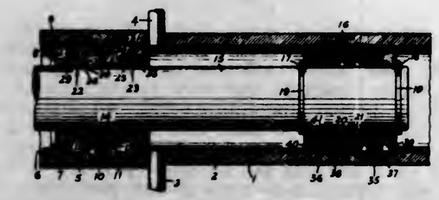
mechanism-actuating gear train to permit the movement of the indicator from the zero position to the set position, coin operable means for releasing said brake means whereby said actuating gear train effects movement of said indicator from said zero position to said set position and effects release of said damper for releasing said timing train for actuation of said indicator from said set position to said zero position, and means actuatable by said indicator upon restoration to said zero position for effecting the return of said damper to a position for interrupting the operation of said timing train.

2,593,192
ACCESSORY HYDRAULIC ADJUSTER
Edward A. Rockwell, Shaker Heights, Ohio, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application October 6, 1945, Serial No. 620,753
16 Claims. (Cl. 60—54.5)



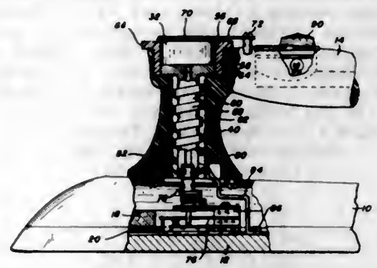
10. In a pulsator mechanism, a casing having a hydraulic inlet and a hydraulic outlet, a retractable differential plunger movable by the incoming liquid towards the outlet, a valved passageway to opposite sides or the plunger to connect the inlet to the outlet when open, and stop means for opening the valve at the differential pressures present during the differential piston travel when the plunger has been moved towards the outlet, said mechanism being constructed to retain the valve open after a relaxation of the pressure in the inlet until a predetermined pressure has been reached in the outlet.

2,593,193
SEALING MEANS
Edward A. Rockwell, Shaker Heights, Ohio
Application February 21, 1947, Serial No. 729,931
8 Claims. (Cl. 309—23)



1. A sealing means to which fluid pressure is adapted to be applied, comprising members including a cylinder and a piston guided for axial movement therein, one of which has thereon a normally closed annular resilient seal at all times pressed against the other member by a recess in which it is carried before the application of fluid pressure, and a normally open second annular resilient seal resting lightly against said other member in a rounded recess deeper and wider than the second annular seal and contacting said recess when fluid pressure is applied, so as to avoid trapping high pressure fluid against the first seal and friction produced thereby.

2,593,194
ELECTRIC IRON
Michael A. Rollman, Landisville, Pa.
Application October 17, 1947, Serial No. 780,529
4 Claims. (Cl. 219—25)



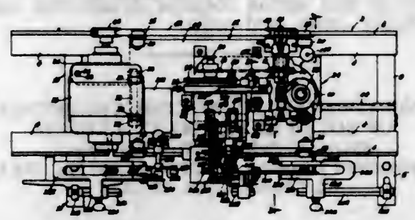
1. An electric iron having in combination, a sole plate, an electric grid means arranged to heat said sole plate when current passes through said means, a handle for said iron, temperature-indicating means comprising a dial and pointer movable in response to temperature variations in said sole plate and carried by said handle at the top of the forward end thereof, said dial being viewable from the top of said iron during the normal use thereof, means directly connecting the sole plate and indicating means to render the latter responsive to the temperature of the sole plate, a circuit to and from said grid means, a thermostatic switch responsive to the temperature of said sole plate and connected in the circuit of said grid means to automatically control the opening and closing of the same, and settable means carried by said handle and connected to said thermostatic switch and arranged to be moved to a predetermined position corresponding to a temperature at which the thermostatic switch will open the circuit of said grid means.

2,593,195
PICTURE FRAME WITH VARIABLE DISPLAY AREAS
George Rosenberg, Forest Hills, and Louis Spiselman, Brooklyn, N. Y.
Application October 27, 1949, Serial No. 123,808
3 Claims. (Cl. 40—152)



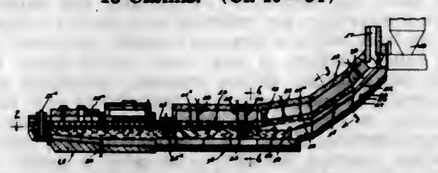
1. A backing board for picture frames having a plurality of metal strips adjustable across the backing board and another plurality of metal strips adjustable on the backing board in right angular relation to the first plurality of strips, each of the metal strips having a prong near the end thereof having piercing engagement with the backing board.

2,593,196
RAILWAY SEWING MACHINE
Walter S. Rotherham, Lincoln Park, N. J., assignor to The Hermas Machine Company, Hawthorne, N. J., a corporation of New Jersey
Application October 25, 1947, Serial No. 782,176
8 Claims. (Cl. 112—2)



5. The combination, with a railway sewing machine having a fixed supporting structure including a guideway, a carriage running on the fixed supporting structure and being guided by the guideway, a sewing device having a vibrating needle carrying bar mounted on the carriage, and common motive means for driving the sewing device and traversing the carriage, of a mechanism for selectively stopping the motive means, and means responsive to operation of such stop mechanism for stopping the sewing device with the needle carrying bar in raised position free from the goods being sewed.

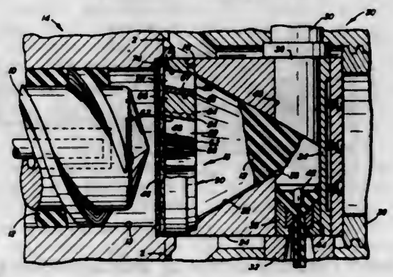
2,593,197
INCLINED MELTER FURNACE AND METHOD OF MELTING GLASS
Robert R. Rough, Toledo, Ohio, assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application September 29, 1949, Serial No. 118,550
13 Claims. (Cl. 49—54)



1. The method of melting glass-forming batch materials which consists in effecting gravity flow of such materials downwardly in a thin layer along a path of progressively decreasing inclination to a working chamber, heating and finally melting the materials in said chamber, confining the heat in a uniform layer above the materials in said chamber, exhausting waste heat from the chamber and confining the same to provide a blanket of substantially uniform thickness over and in intimate contact with the downwardly flowing materials, the thickness of the blanket being less than the width of the path, and causing such waste heat to move counter to the direction of flow of said materials throughout the path of progressively decreasing inclination and thereby transmitting heat to said batch materials to make the materials fluid before entering the working chamber.

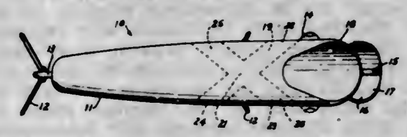
4. A glass melting furnace comprising a working chamber, means utilizing products of combustion for heating said chamber, a combined batch feed conduit and flue for the exhaust of waste products communicating with one end of said chamber, said conduit including a floor and roof both inclined at progressively increasing angles and to approximately the same degree away from the chamber, said roof being spaced from the floor only sufficiently to permit the spreading of raw batch materials in a relatively thin layer over the floor and the movement of products of combustion thereover in intimate contact with said materials, the portion of said conduit nearest the working chamber being inclined at such an angle that the raw batch materials will collect and remain thereon until they have absorbed sufficient heat to become fluid and flow into the working chamber, and a stack communicating with said combined conduit and flue.

2,593,198
BACKING PLATE FOR STRAINERS
Albert D. Rutherford, Jr., Essex, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 21, 1949, Serial No. 94,688
4 Claims. (Cl. 18—12)



1. A segmental backing plate for a straining screen in an extruder, which comprises an outer segment including a ring having a plurality of spaced radial arms on the outer periphery thereof and having the inner periphery thereof tapered longitudinally of the ring so as to constitute a frustoconical socket, an intermediate segment including a second ring having a plurality of spaced radial arms on the outer periphery thereof and having the inner periphery thereof tapered longitudinally of the second ring so as to constitute a frustoconical socket, said intermediate segment having such an outside configuration that it may be removably seated within the frustoconical socket in the outer segment, and a central segment including a third ring having a plurality of spaced radial arms on the outer periphery thereof and having such an outside configuration that it may be removably seated within the frustoconical socket in the intermediate segment.

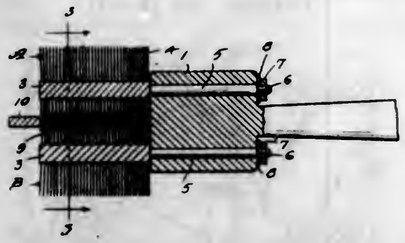
2,593,199
ARTIFICIAL BAIT
Arnold J. Salg, Shakopee, Minn.
Application February 27, 1950, Serial No. 146,436
1 Claim. (Cl. 43—42.06)



An artificial bait consisting of an elongated buoyant plug having a forward end, vertical side surfaces disposed substantially parallel to each other and top and bottom sides, a fish hook supported on said bottom side of said plug for causing said buoyant plug to lie in the water with said bottom side down and a closed loop attached to said forward end of said plug for supporting a

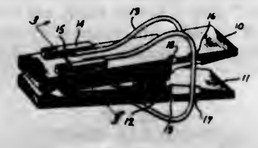
fishing line, said plug having a pair of uniform, straight, intersecting passageways extending obliquely therethrough and having axes lying in a single horizontal plane passing through the center of mass of said plug, each passageway having a forward portion open to one of said side surfaces forward of the center of mass of the plug, an alined rear portion open to the opposite one of said side surfaces rearward of the center of mass of the plug and an intersection portion between said forward and rear portions common to both of such passageways.

2,593,200
COMB CLEANING DEVICE
Haakon Sand, Zumbrota, Minn.
Application March 9, 1951, Serial No. 214,715
1 Claim. (Cl. 132—27)



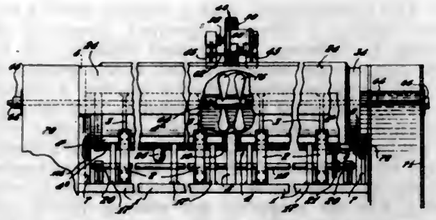
A comb cleaning device of the character specified, comprising a rectangular oblong base or support provided at its outer end with a handle, a pair of corresponding intermeshing rotary brushes between which the teeth of the comb are passed in a vertical position to effectively clean the former, said brushes comprising outer cylindrical shafts carrying the brush bristles and inner reduced spindles journaled to said base, and nuts screwing on the outer ends of said spindles.

2,593,201
CLOTHESPIN
Noel J. Saunders, Toronto, Ontario, Canada
Application October 13, 1949, Serial No. 121,097
1 Claim. (Cl. 24—137)



A clothes peg comprising a spring member formed from a single piece of wire bent in two substantial C's in juxtaposed relation to each other, two peg arms fulcrumed with respect to each other about a point between their ends to form gripping jaws on one side of the fulcrum point and handles for operating the said jaws on the other side of the fulcrum point, said arms being disposed between said juxtaposed C formations of said spring member for pivoting about their fulcrum point, two lugs carried by each of the jaw sections of said arms, said lugs being spaced apart to receive the end portions of said C formations therebetween whereby to retain them against said peg arms, and a plurality of aligned notches in each of said peg arms to accommodate the base portion of said C formation whereby to positively lock said spring member against free movement longitudinally against said arms, said notches being spaced apart longitudinally of said arms whereby the base of said spring can be locked in more than one position longitudinally of said arms, the free end portions of said spring member being slidable on said arms as said spring member is adjusted longitudinally along said arms.

2,593,202
APPARATUS FOR SCREENING A SUSPENSION OF SOLID MATERIAL IN A LIQUID
Harry F. Schenk, Sterling, Mass.
Application January 24, 1947, Serial No. 724,196
2 Claims. (Cl. 92—36)



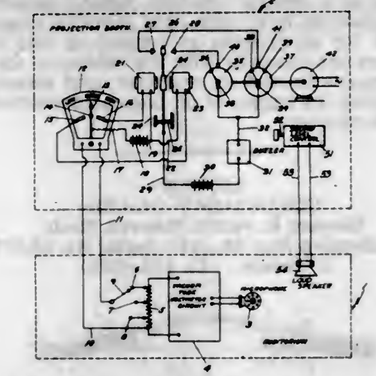
1. Apparatus for screening a suspension of solid material in a liquid comprising an elongate tank for receiving the suspension to be screened, a hollow screen rotatably mounted within said tank with its axis of rotation substantially horizontal and having an opening of substantial size at each end through which the screened suspension may pass outwardly, bearing members mounted adjacent to the screen openings at opposite ends of the tank for rotatably supporting the screen, drive mechanism for rotating said screen including an intermediate bearing member mounted on the inner surface of the tank intermediate its ends, an annular driven member mounted peripherally of the screen intermediate its ends said annular member being formed with a smooth circumferential track engageable with said intermediate bearing member and with a series of teeth adjacent to said track, said teeth being moistened by the liquid suspension during revolution of the screen, and a driving member formed with teeth meshing with the teeth of said driven member and an inflow passage communicating with the space between the inner surface of the tank and the periphery of the screen, the line of mesh of the teeth of the driving and driven members being located above the normal surface level of the liquid suspension in the inflow passage.

2,593,203
NEEDLE COOLING DEVICE FOR SEWING MACHINES
Louis J. Schwartz, Slatington, Pa., assignor to Ignatius Billera and Anthony Billera, both of Allentown, Pa.
Application October 19, 1949, Serial No. 122,165
4 Claims. (Cl. 112—218)

4. In a sewing machine, a vertical hollow needle bar having a lower needle carrying end, a needle mounted in said end of said bar, means to mount said needle bar for vertical reciprocation including a vertical fixed guide sleeve for said bar, and means to force air out of said lower end of the needle bar against said needle to cool the same upon upward movement of said needle bar relative to said sleeve comprising a relatively stationary plunger in said needle bar having one end fixed in the upper end of said sleeve.



2,593,204
SOUND CONTROL SYSTEM
Henry Schwartzberg, Brookline, Mass.
Application February 18, 1946, Serial No. 648,390
2 Claims. (Cl. 177—311)



1. A sound control system comprising a moving picture theatre including an auditorium and a projection booth, a microphone device in said auditorium generating a voltage which is a measure of the sound level in said auditorium, signal means in said booth, means for supplying said voltage to said signal means, said signal means being responsive to voltage below a predetermined normal value of said voltage to produce a single audible signal and responsive to voltages above said predetermined value to produce two sequential audible signals.

2,593,205
DISTRIBUTOR ROTOR
Brooks H. Short, Anderson, Ind., and John T. Fitzsimmons, deceased, late of Anderson, Ind., by Edna M. Fitzsimmons, executrix, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 15, 1949, Serial No. 81,432
3 Claims. (Cl. 123—148)

2. A distributor rotor comprising a body of molded insulating material having a hub which provides for connection with a shaft which rotates it and having a flat face transverse to its axis of rotation and spaced parallel ribs and a boss between the ribs, the boss and ribs extending from the flat face, and having an arm extending outwardly from the hub and having a groove, the inner end of which terminates between the ribs near one side of the rotor and the outer end of which terminates near the outer end of the arm, a metal, distributing segment anchored in the rotor and having a surface exposed in the outer end portion of the groove, a leaf spring member having a flat portion located against the rotor face and between the ribs and having a hole through which the boss extends and having resilient tangs which are deflected outwardly from the face when the member is assembled upon the rotor, said tangs engaging the boss to retain the member, and said member having an arm portion providing a contact button in substantial alignment with the rotor axis and having a resilient ear extending into the inner end portion of the groove, and a rod of resistance material secured within the groove and located between and in contact with the ear and the segment surface exposed in the groove.



2,593,206
SENSING DEVICE FOR SORTING APPARATUS
Thomas T. Short, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 6, 1950, Serial No. 137,173
2 Claims. (Cl. 250—52)



1. A device for sensing the denomination of an instrument comprising the combination of at least one bar of invisible material marked on each face of said instrument, said material having the property of visible monochromatic light fluorescence when subjected to incident ultra violet light, and the number of said bars constituting a code representing said denomination, a light impervious container having an aperture therethrough, a light shield extending across and slightly above said aperture to minimize the admittance of extraneous light through said aperture into said container, the undersurface of said light shield having substantially the same reflectance as said instrument faces, an ultra violet light source and a photoelectric element arranged within said container so that incident light from said ultra violet light source striking a surface covering said aperture is reflected toward said photoelectric element, a light filter admissive only to said monochromatic light located to intercept said reflected light, light shielding means enclosing said photoelectric element so that said photoelectric element is subjected only to light transmitted through said light filter, an electric circuit connected to be controlled by the conduction of said photoelectric

element, and means for propelling a marked face of said instrument over said aperture to produce a pulse of fluorescent light reflected from said bar which increases the conduction of said photoelectric element accordingly.

2,593,207
RESIN IMPREGNATED TEXTILE FABRICS AND PROCESS OF PRODUCING SAME
Arnold Silver, Englewood, N. J., assignor to Betex Sales Corporation, Paterson, N. J., a corporation of New Jersey
No Drawing. Application June 7, 1950, Serial No. 166,773
5 Claims. (Cl. 117—11)

1. A process for producing embossed resin impregnated cellulosic fabrics having a finish fast to washing and dry cleaning, which process comprises applying to the fabric a solution of N-alkoxymethylpolyamide resin containing from 1% to 3% by weight of the resin in an aliphatic alcohol solvent containing an acidic catalyst so that the fabric absorbs from 60% to 100% of its weight of said solution, partially drying the thus impregnated fabric at a temperature not exceeding 250° F. to produce a resin impregnated fabric containing from 10% to 20% liquid based on the dry weight of the fabric, embossing the partially dried fabric at a temperature of 250° to 375° F., and curing the embossed resin impregnated fabric at a temperature of 250° to 350° F. for from 4 to 15 minutes.

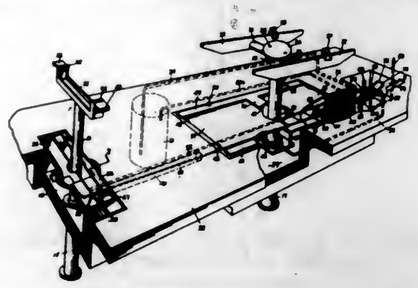
2,593,208
SPRING PAD AND COVER
Newton Skillman, Jr., and John E. Connolly, Detroit, Mich., assignors to Neveroil Products Company, Hamburg, Mich., a corporation of Michigan
Application May 19, 1950, Serial No. 162,981
11 Claims. (Cl. 267—50)



1. Means for producing a more constant coefficient of friction between the contacting ends of leaf springs and for reducing noise and protecting the frictional surfaces of such springs used in a leaf spring assembly which comprises a strip of flexible material characterized by an ability to absorb and retain lubricating material, said strip provided with transverse slits at intervals along its length spaced to receive the ends of the respective leaves of the assembly, and means at the side of the strip to position it against lateral displacement, a lubricant impregnated into said strip, said strip between the slits being interposed between the leaves to provide a spacer.

2,593,209
CLOSURE AND CLOSURE OPERATOR FOR VEHICLE HOISTS
Harry D. Smith, Philadelphia, Pa., assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application July 3, 1948, Serial No. 37,012
5 Claims. (Cl. 254—89)

1. In a full hydraulic hoist having a lift member mounted in a floor pit and movable to a lowered position within the pit, means for closing said pit including a pair of oppositely arranged cover members pivoted on side walls of said pit for pivotal movement toward each other to pit closing positions, movable means in said pit connecting said cover members together for concurrent pivotal movement, means for raising and lowering said lift member including an oil reservoir and a source of air under pressure, an air connection between said reservoir and said source of air including a valve unit having valve members for admitting air to and releasing air from said oil reservoir, a pivoted actuating member for said valve unit associated with said valve members such that on movement of said actuating member in one direction, away from a neutral position, air under pressure is admitted to said reservoir, and on movement of said actuating member in an opposite direction from said neutral position, air is released from said oil reservoir, with said valve unit being closed when the actuating lever is in a neutral position, means connecting said actuating lever with said movable means to provide for an opening movement of said cover members concurrently with the release of air under pressure to said oil reservoir, and means for controlling the supply of oil from said reservoir to said lift member.



2,593,210
COLOSTOMY GUARD
Howard E. Smith, Monroe, Mich.
Application May 28, 1949, Serial No. 95,967
2 Claims. (Cl. 128—283)

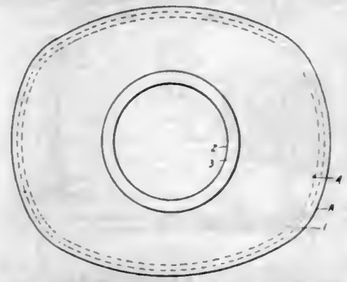


1. A guard unit adapted for colostomy patients, comprising a thin sheet of transparent material formed substantially to normal abdominal curvature, a centrally positioned cylindrical colostomy guard ring fixedly mounted on the inner surface thereof, integral therewith, a resilient surface pad of the guard ring thickness and formed with a like central recess for receiving said guard ring therein, mounted over the guard inner surface, and suitable belt strap means formed on the guard outer surface for retaining said guard in an abdominal position.

2,593,211
COLOSTOMY CONTAINER GUARD
Howard E. Smith, Monroe, Mich.
Application May 28, 1949, Serial No. 95,968
2 Claims. (Cl. 128—283)

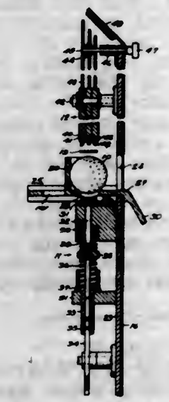
1. A container guard adapted for use by a colostomy patient, comprising a curved base section of suitable plastic sheet material designed slightly curved and formed with a central opening therethrough, a short cylindrical guard ring

fixedly mounted over said base central opening and projected therefrom, a recessed container cap of similar sheet material curved over said base section and formed with rim flanged edges therearound designed to contact and fit the base section outer surface, fused and sealed therewith,



suitable belt retaining bars fixedly mounted across the container cap outer surface, a sponge rubber surface pad designed with a central opening, mounted over the base section concave surface, said pad opening positioned over the base guard ring, and a flanged seal ring mounted over said guard ring edges.

2,593,212
BALL INITIALING MACHINE
Cloyd D. Smith, Pacific Palisades, Calif., assignor to Ball Renu, Inc., Los Angeles, Calif.
Application August 30, 1949, Serial No. 113,200
6 Claims. (Cl. 101—42)

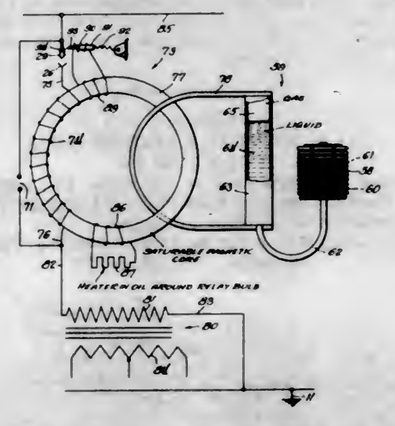


1. In a ball imprinting machine: a housing having an aperture for passage of a ball therethrough; a feed unit within said housing, including a ball support and means for moving said support on a vertical axis; imprinting mechanism within said housing, disposed above said support in a position to effect imprinting of a ball carried upwardly thereto by said support; a slide having an opening of larger diameter than said ball support whereby the support may pass therethrough, and having a ball seat for supporting a ball in a position centered over said opening; horizontal slideways in which said slide is mounted for movement transverse to said vertical axis, from a position in which a ball may be placed on said seat from the exterior of the housing to a position in which the ball is centered on said vertical axis above said ball support; said feed unit including means for moving said support vertically from a position disposed below the plane of said slide to a position projected upwardly through said opening and presenting the ball to said imprinting mechanism.

2,593,213
PREPARATION OF ALPHA HYDROXY PHOSPHONATES
Alan R. Stiles, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application October 26, 1948, Serial No. 56,667
20 Claims. (Cl. 260—461)

4. A process which comprises mixing a dialkyl acid ester of phosphorous acid and a saturated aliphatic aldehyde and maintaining the mixture at temperatures of from about 0° C. to 200° C. to effect reaction whereby there is produced dialkyl ester of a hydroxy-substituted saturated aliphatic phosphonic acid having both hydroxy and phosphorus directly substituted on a single carbon atom.
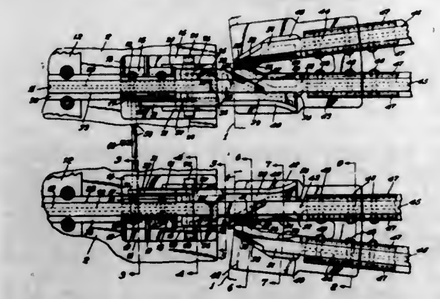
2,593,214
CIRCUIT CONTROL MEANS
Charles L. Stroup, Oak Park, Ill.
Application November 9, 1946, Serial No. 708,860
5 Claims. (Cl. 175—294)



5. A thermally responsive circuit interrupting attachment for opening the circuit to the windings of a load device to be protected and which is connected in circuit with a source of electrical potential, comprising, a hollow pot member adapted to hold a body of insulating liquid and having an inner liner of conductor material, a lower connector terminal insulated from said pot and in electrical contact with said liner for connecting said attachment in circuit with said load device, a stationary contact in the bottom interior of said pot and insulated from said liner, a second movable contact above said stationary contact comprising a rod member of conductor material adapted to move vertically toward and away from said stationary contact, an insulating cap journalling the upper portion of said rod and covering over the top of said pot, thimble means within said insulator and surrounding said contact rod, compressive spring means surrounding the upper end of said rod and having its lower end bearing against said thimble means, the upper end of said spring means being secured to the upper end of said rod; a second connective terminal means comprising the upper end

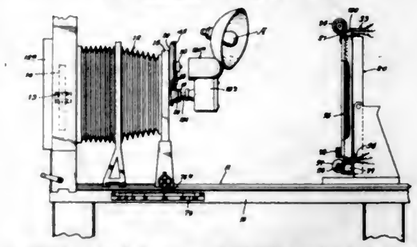
of said rod for connecting said apparatus in circuit with an electrical supply line conductor, a multi-part connector secured at one end to said second terminal and contact rod comprising a flexible strap of conductor material and an additional strap of non-conductor material; a tripping latch mechanism outside of said pot and adjacent one side thereof, the lower end of said non-conductive part of said connector being adapted for latching engagement with said tripping mechanism whereby said spring means resiliently may be compressed to hold said contacts together; a control transformer within said pot having secondary winding and a primary winding which is connected in series with said two contacts through said liner, and a thermally responsive relay means submerged in said fluid within said pot, said relay comprising a conductive bulb inductively connected across said secondary winding, partially filled with liquid and having a body of gas at the upper end therewithin, and a tubular member connecting the bottom of said bulb with an expansible bellows mounted externally of said pot and operatively associated with said tripping mechanism whereby upon the excitation of said secondary winding in response to a predetermined current flow in said primary winding of said control transformer, said gas will rapidly expand forcing said liquid within said bulb to flow into said bellows via said tubular member thereby to expand said bellows, trip said tripping mechanism to release said connector and cause said two contacts to separate thereby to interrupt the circuit to said load device windings.

2,593,215
RAIL JOINT FOR LOCOMOTIVE TURNTABLES
William A. Summerhays, Chicago, Ill., assignor to Conley Frog and Switch Co., Memphis, Tenn., a corporation of West Virginia
Application December 30, 1946, Serial No. 719,208
6 Claims. (Cl. 104—47)



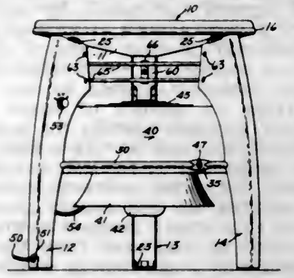
1. For use with railroad turntables and the like in combination, a track plate having adjacent one end, an integral upwardly extending rail engaging member, the contour of which is generally the same as a rail tie bar, adapted to overlie the flange and engage the web and head of a track rail, two parallel flanges extending upwardly from the plate adjacent the other end thereof, the distance between them being greater than the width of a track rail flange, a rail bolted to the first-mentioned upward extension between the parallel flanges, a rail frog adapted to extend in general alignment with the track rail, having a bifurcated end adapted to straddle the end of the track rail, a pivot pin extending through the parallel flanges, the bifurcated ends of the frog and the rail web.

2,593,216
AUTOMATIC DIAPHRAGM CONTROL SYSTEM
Max H. Sussin, Chicago, Ill., assignor to R. R. Robertson Company, Chicago, Ill., a corporation of Illinois
Application July 10, 1950, Serial No. 172,903
21 Claims. (Cl. 88—24)



1. In an automatic control system for effecting a series of successive mechanical operations, a master plate having a plurality of spaced graph-like lines offset thereon, the position of said lines being based upon a formula including two control factors which are mutually variable for each successive mechanical operation, control means for effecting said mechanical operations successively, including a scale arm movable transversely along said plate to various settings corresponding to one of said control factors, said scale arm having an electrical switch manually adjustable therealong to various settings corresponding with the second of said control factors, electrically operated drive means for varying the settings of said control means and simultaneously moving said scale arm to corresponding settings along said plate, said switch means being actuated by engagement with the offset lines on said plate at successive stations corresponding to the two control factors determined respectively by the initial setting of the switch on its scale arm and the transverse movement of said scale arm, means responsive to the actuation of the switch to discontinue temporarily the operation of said drive means at said successive stations, means also responsive to the actuation of said switch to effect a mechanical operation while said switch is halted at each such station, and means operative upon the completion of each such operation for resuming actuation of said electrically-operated drive means.

2,593,217
TABLE TOP CIRCULATOR
Ottis A. Sutton, Wichita, Kans., assignor to The O. A. Sutton Corporation, Inc., Wichita, Kans., a corporation of Kansas
Application March 24, 1950, Serial No. 151,721
7 Claims. (Cl. 230—259)



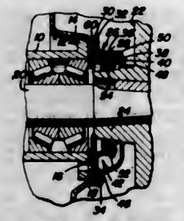
1. An air circulating unit comprising a plurality of equiangularly spaced legs, a round table top supported by said legs, a conical deflector concentrically underlying said table top and having its edge extending to the edge of said table top and its apex downward, a supporting ring affixed to said legs at an intermediate level concentrically with respect to said table top, a diametrically opposed, inwardly directed pair of pivots mounted on said supporting ring on a line normal to a plane bisecting the angle between two of said legs, and a fan unit pivotally supported on said pivots and including a fan rotatable about an axis midway between the pivots and at right angles to the diameter along which the pivots lie, said fan unit being movable about said pivots to direct a stream of air upward against said deflector or to direct a stream of air laterally between said two legs.

2,593,218
DOLL CARRYING APRON
Lois F. Swain, Middletown, Pa.
Application February 7, 1949, Serial No. 74,906
1 Claim. (Cl. 2—48)



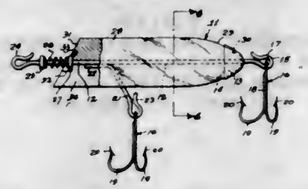
A child's apron for carrying dolls, said apron comprising a relatively large sheet of material adapted to be worn below the waist, a relatively small sheet of material superposed on said large sheet, lines of stitching securing opposite side edges of the small sheet to the large sheet whereby to provide a doll receiving pocket open at the top and bottom thereof, said small sheet affording a miniature doll apron, the upper edge portion of said small sheet being provided with vertical shirrs, and an elastic band extending transversely of and secured at longitudinally spaced points to said shirrs inside the pocket to afford frictional doll sustaining means.

2,593,219
OIL SEAL STRUCTURE
Howard O. Thomas, South Gate, Calif.
Application September 15, 1949, Serial No. 115,884
1 Claim. (Cl. 288—3)



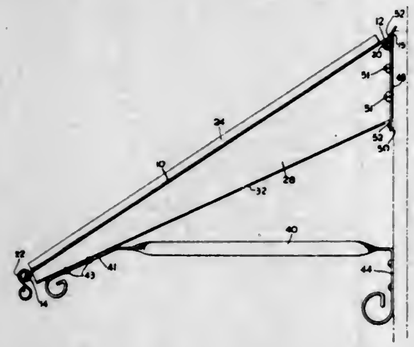
A rear axle oil seal of the type described, comprising a vertically disposed inner plate adapted to be secured to a brake support and provided with an axle receiving opening, a vertically disposed outer plate secured to the outer surface of the inner plate and having an outwardly offset intermediate and lower portions spaced from the inner plate to afford a chamber therebetween and a grease collecting pocket at the bottom of said chamber, the intermediate portion of said outer plate having an opening therein to receive a hub on an axle, said inner plate being provided in its lower portion with a grease drain port communicating with said pocket, and an annular seal unit mounted in said chamber to frictionally engage a hub in a vertical plane spaced inwardly from said outer plate, whereby any grease leaking through said seal unit into said chamber may gravitate into said pocket and drain through said port, said seal unit comprising an annular sealing element positioned against the outer surface of said inner plate, an annular retainer positioned against the outer surface of said sealing element, an outturned flange provided at the top and sides of said retainer and abutting the inner surface of said outer plate, an inturned flange provided at the bottom of said retainer and constituting a reversed continuation of said outturned flange, the lower edge portion of said sealing element resting on and being supported by said inturned flange, and means for preventing rotation of said sealing element relative to said retainer.

2,593,220
FISH BAIT
William W. Thompson, Birmingham, and Gilbert F. Whitston, Inkster, Mich.
Application June 24, 1946, Serial No. 678,852
1 Claim. (Cl. 43—42.09)
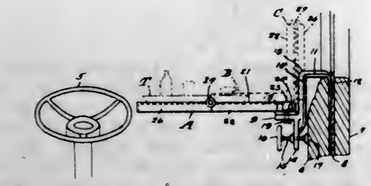


A fish bait of the type having removable and interchangeable bodies, comprising an elongated body having a substantially straight slot extending longitudinally from end to end thereof and transversely substantially halfway through said body from one side thereof, a substantially rigid elongated straight rod removably insertable in said slot, said rod having its opposite ends projecting from the opposite ends of said body and terminating in eye-shaped loops for the attachment of a fishing line and a hook respectively, forward and rearward body holding elements mounted on said rod near the forward and rearward ends respectively of said rod and detachably engageable with the opposite ends of said body, the forward element being movably mounted on said rod, a spring attached to said rod and yieldingly urging said movable forward element into locking engagement with the forward end of said body, said rearward holding element and the rearward end of said body having interfitting portions of corresponding configuration engageable with one another, a fish hook attached to one of said loops, an arm secured to said rod and extending downwardly therefrom through said slot with its outer end projecting therefrom, and a second fish hook attached to the lower end of said arm.

2,593,221
CANOPY CONSTRUCTION
Frank R. Thompson and William D. Bell, Akron, Ohio, assignors, by mesne assignments, to The Falls Stamping and Welding Company, Cuyahoga Falls, Ohio, a corporation of Ohio
Application November 16, 1948, Serial No. 60,252
15 Claims. (Cl. 160—57)



5. A multiple piece roof construction for awnings having a roof surface comprising a plurality of similar plates arranged longitudinally of the roof, a plurality of strips respectively arranged parallel to said plates and having a sliding interlocking fit with adjacent ones of said plates, and an edging strip across the lower edge of the roof and having a sliding interlocking fit with the lower transverse edges of the plates.

2,593,222
SUPPORT FOR SERVICE TRAYS
Florence Franklin Tracy, Daytona Beach, Fla.
Application April 20, 1948, Serial No. 22,051
1 Claim. (Cl. 248—226)



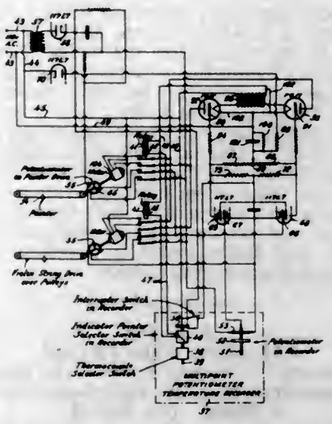
In a clamp for service trays a cast base formed with a plane portion adapted for supporting one end of a service tray, said base being cast at opposite ends with a pair of hooks extending upwardly from opposite ends of the base, said hooks having upper ends disposed in a common plane above the plane portion of the base and spaced widely apart, a pivot extending upwardly through said plane portion and centered between said hooks, a flange cast upon and disposed under the plane portion of the base, and a clamping screw threaded in the flange and adapted to be shifted against a vehicle door on which the hooks are hung, said clamping screw adapted for adjusting of the base to level position and clamping the base to said door, the upwardly extended portions of the hooks being positioned to constitute stops limiting swinging movement in opposite directions of a service tray mounted on said pivot.

2,593,223
CANNING OF HARD BOILED EGGS
Richard D. Treiease, Chicago, Ill., George O. Sampson, Larchmont, N. Y., and Dale V. Alstrand, Maywood, Ill.; said Sampson and said Alstrand assignors to American Can Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 3, 1948, Serial No. 58,162
24 Claims. (Cl. 99—161)

1. As a new article, a hard-boiled shelled egg, comprising hard-boiled heat sterilized egg white permeated with a member of the group consisting of edible acid and edible acidic buffer, and having a hydrogen ion concentration of a pH value between about 5.16 and about 6.8, said egg having a color, flavor and texture substantially equal to that of a freshly hard-boiled egg.

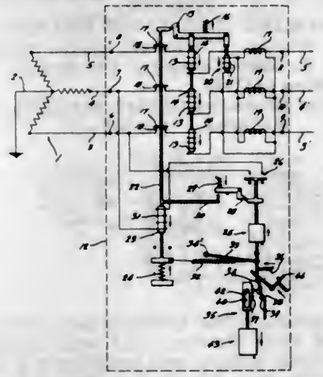
6. As a new article, a hard-boiled shelled canned egg, comprising hard-boiled heat-sterilized egg white of a pH value between about 5.16 and about 6.8, said egg being covered by an edible mildly acidic liquid of a pH value of between 4.6 and 6.8 enclosed in a hermetically sealed lacquered can; said egg being capable of prolonged storage at room temperatures without affecting the lacquering of said can, and said egg having after such storage a color, flavor, and texture substantially equal to that of a freshly hard-boiled egg.

2,593,224
GRAPHIC INDICATOR RESPONSIVE TO A PLURALITY OF CONDITIONS IN A CONTINUOUS PROCESSING SYSTEM
Ernest Utterback, Upper Darby, William A. Hagerbaumer, Brookline, Pa., and Roy E. Dooley, Rockaway, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application September 7, 1944, Serial No. 553,054
2 Claims. (Cl. 73—341)



1. A graphic indicator for continuously indicating a plurality of varying conditions in a continuously operating system that comprises a panel having a system of rectangular coordinates thereon; a plurality of pointers corresponding in number to the number of conditions to be indicated spaced along one axis of said coordinates, adapted to be moved over the other axis of said coordinates; reversible motor means for each of said pointers for actuating the same when said reversible motor means is energized; energizing means selectively responsive to said conditions for energizing said reversible motor means in the direction of and in proportion to the magnitude of the variation in one of said conditions being indicated; a pointer selector for selectively establishing energizing relation between said energizing means and said reversible motor means, said pointer selector being adapted to establish said energizing relation synchronously with respect to the selective response of said energizing means to the variation in said conditions.

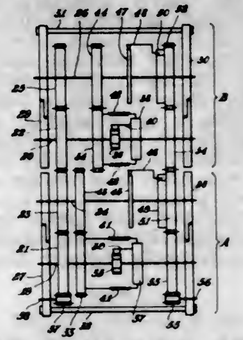
2,593,225
POLYPHASE CIRCUIT INTERRUPTER
Anthony Van Ryan, South Milwaukee, and William R. Harry, Milwaukee, Wis., assignors to McGraw Electric Company, a corporation of Delaware
Application October 1, 1948, Serial No. 52,386
1 Claim. (Cl. 175—294)



A self-contained polyphase circuit interrupter comprising a unitary construction having input and output terminals for the several phases, main switch means for each of the phases located between said input and output terminals, biasing means biasing said main switch means towards open position, latch means normally holding said main switch means closed, means connected wholly between said input and output terminals and responsive to fault currents for tripping said latch means, electromagnetic means for reclosing said main switch means following a circuit opening operation, a normally open auxiliary switch biased towards closed position upon opening of said main switch means and controlling the energization of said electromagnetic means to thereby control the closing of said main switch means, an auxiliary latch normally holding said auxiliary switch open, means responsive to the opening of said main switch means for releasing said auxiliary latch to thereby allow closing of said auxiliary switch, and reset means responsive to the closing of said main switch means for resetting said auxiliary switch in open and latched position.

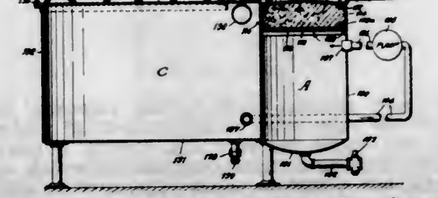
2,593,226
PAWL MECHANISM AND ASSEMBLY
Wilhelmus Lambertus Vervest and Gozewijn Van Gelder, Eindhoven, Netherlands, assignors to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application December 22, 1948, Serial No. 66,682
In the Netherlands February 17, 1948
9 Claims. (Cl. 74—10.2)

1. A drive mechanism comprising; a housing, a pair of shafts rotatably mounted in said housing and positioned in parallel relationship with respect to each other, a gear wheel fixedly mounted on one of said shafts for rotation therewith, a driven gear wheel rotatably mounted on the other of said shafts and in meshing engagement with said gear wheel, overload coupling means mounted on said other shaft and detachably coupling said driven gear wheel to



said other shaft, a driving gear wheel adapted to be rotated and fixedly mounted on said other shaft for rotation therewith, a transmission gear wheel rotatably mounted on said one shaft and in meshing engagement with said driving gear wheel.

2,593,227
OIL FILTER
Paul H. Wagner, Milwaukee, Wis.
Application March 22, 1946, Serial No. 656,345
3 Claims. (Cl. 210—131)

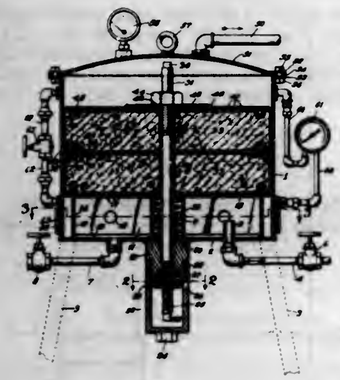


1. In a filter assembly, a tubular filter housing including a lower portion defining a sump, a transverse foraminous plate extending across the filter housing above said sump, a filter pad supported on said plate, means for maintaining said filter pad under compression against the inner face of the side wall of the housing including upper and lower opposed annular compression members engaging the upper and lower faces of the filter pad inwardly of the side wall of the housing, a second foraminous plate overlying the upper face of the filter pad and the upper annular compression member, and means for thrusting said second foraminous plate downwardly against said pad to force said annular compression members into the body of the filter pad and thereby impart a generally uniform outward squeeze of a peripheral portion of said pad against the inner surface of the housing.

2,593,228
FILTER
Paul H. Wagner, Milwaukee, Wis.
Application July 12, 1948, Serial No. 38,328
2 Claims. (Cl. 210—134)

1. A filter structure for liquids including a housing having a circumferential side wall, a

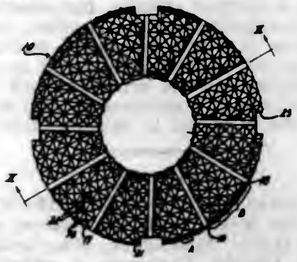
bottom wall and a removable top wall, a central rod extending axially through the housing and having end portion extending downwardly through the bottom wall, its upper end lying normally below the removable top wall, a plurality of separable flexible and liquid pervious walled cartridges superposed about said rod, each cartridge having a wall portion defining a central passage through which said rod passes, each cartridge having an interior body of filtering material within and surrounded by the pervious wall, a lower pressure disk surrounding a lower portion of the rod, means for spacing it upwardly above the bottom of the housing, the cartridges being superposed upon each other and resting as a group upon said lower pressure disk, an upper pressure disk positioned upon the upper end of said group of cartridges and being apertured, said rod extending upwardly through said aperture,



the lower pressure disk having adjacent, but within its outer edge, a circumferential projection, the upper pressure disk having a downwardly extending circumferential projection adjacent, but within its outer edge, and an additional abutment between adjacent filter cartridges, such abutment including a circumferential projection adjacent, but within the outer edges, of the adjacent filter cartridges, and means for urging the upper and lower pressure disks together along the rod and for thereby subjecting the entire group of cartridges to sufficient pressure to force a concentrated sealing mass of the contents of the cartridges between the said circumferential projections and the opposed inner surface of the circumferential side wall, the pressure disks being apertured means for admitting the liquid to be filtered to the space below the lower pressure disk, and means for withdrawing filtered liquid from the space above the upper pressure disk.

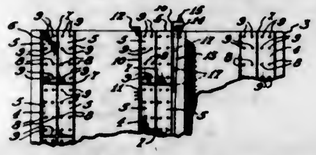
2,593,229
DRILL BIT
Harry W. Wallace, Windsor, Ontario, Canada, assignor to Wheel Trueing Tool Company, Detroit, Mich., a corporation of Delaware
Application November 14, 1947, Serial No. 786,082
5 Claims. (Cl. 255—72)

1. A plain rotary type drill bit having a convex end working face provided with pyramidal protuberances arranged in substantially radially extending rows with water grooves therebetween, and a single diamond particle set in each of said



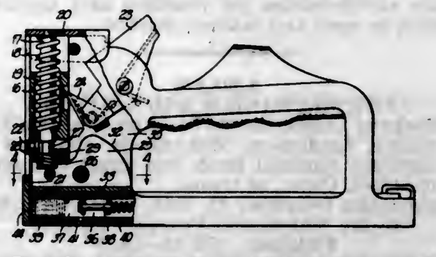
protuberances to project from the apex of such protuberance.

2,593,230
MACHINE TOOL SLIDE BEARING
John M. Walter, Cincinnati, Ohio, assignor to The G. A. Gray Company, Cincinnati, Ohio, a corporation of Ohio
Application December 13, 1946, Serial No. 716,139
6 Claims. (Cl. 308—3)



1. In a machine tool having a base with a series of parallel ways thereon, said ways having rectangular cross section and presenting a flat top, a heavy mounting member on said ways having channel-like portions the bottoms of which lie in flat contact with the ways, means for gibbing the said mounting member on the one of the ways selected for the narrow guide, said means comprising a tapered gib faced where it contacts the side of the narrow guide with a plate of resin laminate, and secured adjustably on one of the channel side walls, and an insert, comprising a plate of resin laminate, secured on the opposite channel side wall corresponding to the gib position.

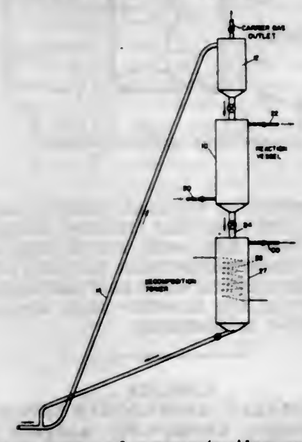
2,593,231
SHOCK ABSORBING MEANS FOR SPRING ACTUATED TACKING DEVICES
Oscar A. Wandel, Chicago, Ill., assignor to Henry A. Torstenson, Chicago, Ill.
Original application October 9, 1947, Serial No. 778,953. Divided and this application September 8, 1950, Serial No. 183,705
3 Claims. (Cl. 1—49)



1. In a fastener driving mechanism comprising a housing having a guideway, a driver mounted in said guideway, means for reciprocating the driver to drive a fastener, means for feeding fasteners

to a driving position relative to the driver and a shock absorbing bumper block rigidly mounted between the driver and the fastener feeding means, said bumper block comprising a plurality of rigidly connected plates arranged in edgewise relation with adjacent edges forming a bumper surface extending transversely of the guideway for engagement by said driver to cushion the movement thereof at the end of the driving stroke.

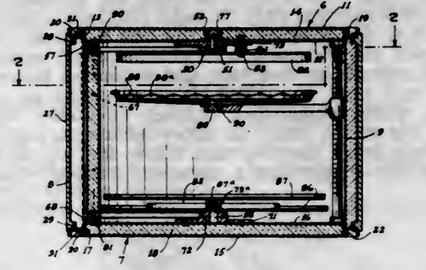
2,593,232
PROCESS OF CONCENTRATING OR PURIFYING CARBON MONOXIDE OCCURRING IN ADMIXTURE WITH OTHER GASES
Kenneth Merle Watson, Madison, Wis., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
Application July 18, 1947, Serial No. 761,771
5 Claims. (Cl. 23—204)



1. The process of concentrating or purifying carbon monoxide occurring in admixture with other gases which comprises bringing the gas mixture into contact with an adsorbent mass containing nickel in a form having a high surface area at a relatively low temperature of the order of about 40° to 200° C., whereby the carbon monoxide is adsorbed from the gases as nickel carbonyl, subjecting the adsorbed nickel carbonyl to a temperature of the order of about 100° to 300° C., to decompose the nickel carbonyl with formation of carbon monoxide and regeneration of the nickel with the high surface area, the temperature in the decomposing step being substantially higher than the temperature in the corresponding absorption step and collecting the carbon monoxide thus formed.

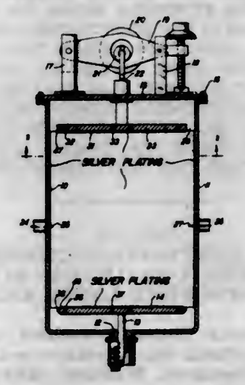
2,593,233
OVEN
Charles C. White, New York, N. Y., assignor to White Cabinet Corporation, New York, N. Y., a corporation of New York
Application June 28, 1945, Serial No. 602,049
9 Claims. (Cl. 126—39)

1. In structure for heating gasketing, an arcuate rotatable door, a housing carrying said door and formed with a door opening therein, engageable means on the door and on said housing adjacent said opening for gasketing the arcuate edge of said door against heat loss, said means including a member having a face curved eccentrically with respect to the curvature of the door and a member for engaging said face when said door is moved into closed position, one of said members being mounted on said door and the



other of said members being mounted on said housing adjacent said opening.

2,593,234
CAVITY RESONATOR
Ira G. Wilson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 12, 1945, Serial No. 593,508
4 Claims. (Cl. 178—44)

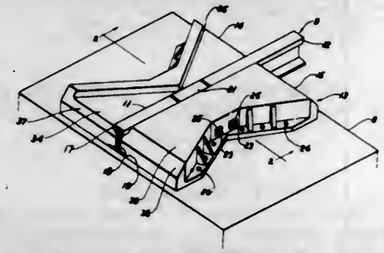


1. A cavity resonator comprising a cylindrical chamber having an interior surface of electrically highly conductive material, a movable end wall positioned in said chamber with a uniform spacing between its periphery and the adjacent side walls of the chamber, said periphery being so tapered as it approaches its margin as to greatly reduce the electrical capacitance between the periphery of the piston and the adjacent side walls said gap providing a capacitance sufficient to shift the frequency of undesired TM modes outside of the operating range.

2,593,235
RAIL SPLICE AND RERAILER
Nick Winters, Weirton, W. Va., assignor to National Steel Corporation, a corporation of Delaware
Application November 15, 1945, Serial No. 628,747
3 Claims. (Cl. 104—265)

1. A rail splice and rerailer for connecting together the adjacent, aligned, end portions of two rails to support a flanged wheel moving therealong and for replacing a derailed, flanged wheel onto the rails, each of the rails including a wheel supporting ball, a base and a connecting web, said rerailer comprising an outer member; an inner member; a tongue on each member providing upper and lower complementary recesses in the

members for receiving the ball and base, respectively, of each of the rail end portions, the tongues extending toward the rail webs for holding the rail end portions only through frictional engagement of the tongues with the ball and base only of each rail end portion; a wheel support integral with one of the members and extending between the rail ends, the wheel support having an upper, wheel supporting surface co-planar with the top of the rails; an upper horizontal surface on the inner member and below the top of the rails for supporting a derailed, flanged wheel;



an upper horizontal surface on the outer member and co-planar with the top of the rails; a wheel engaging guide extending above the wheel-supporting surface of the inner member and converging inwardly toward the rails to force a derailed wheel from the upper horizontal surface of the inner member over and back onto the rails; fastening means extending through both members and the wheel support for drawing the members together and urging the tongues into frictional engagement with ball and base portions of the rails.

2,593,236

ADHESIVE COMPOSITION COMPRISING A VINYLIDENE CHLORIDE-ACRYLONITRILE COPOLYMER LATEX AND A PROTEIN

Arthur E. Young, Elmer K. Stilbert, and Robert H. Lalk, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application March 22, 1950, Serial No. 151,304

7 Claims. (Cl. 260—8)

1. An adhesive composition comprising a copolymer of 82 to 88 per cent vinylidene chloride and correspondingly 18 to 12 per cent acrylonitrile, by weight, in the form of a latex of 45 to 55 per cent solids, by weight, and a protein modifier in the amount of from 5 to 20 per cent, by weight, based on latex solids, and selected from the group consisting of casein, isolated soya protein, animal hide glue, and zein.

2,593,237

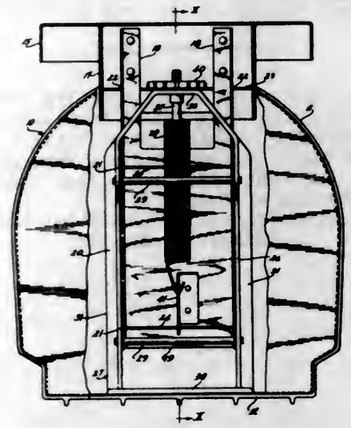
SCALE STRUCTURE

Bruce P. Adams, Wilmette, Ill., assignor to Pelouze Manufacturing Company, Evanston, Ill., a corporation of Illinois

Application July 13, 1949, Serial No. 104,499

6 Claims. (Cl. 265—68)

1. In a scale structure, a unitary integrally cast sub frame having a base, parallel spaced side walls extending upwardly therefrom having platform supporting links pivoted thereon and extending in parallel spaced relation with respect thereto, a bridge member connecting the upper ends of said side walls together having a spring depending therefrom and connected with said links and holding said links and the platform in upwardly extended relation with respect to said frame, and a yoke structure extending outwardly from said side walls and connecting said side walls together intermediate their ends, said yoke structure having a forward wall spaced outwardly from said side walls and forming a



pivotal support for the scale pointer shaft and also having the scale dial mounted thereon, and with said base, side walls and bridge forming a rigid non-deformable frame carrying all of the essential parts of the scale and maintaining the pivotal axes of the movable parts thereof in a constant fixed relationship.

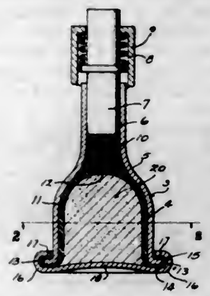
2,593,238

THERMALLY RESPONSIVE DEVICE

John C. Albright, Chicago, Ill., assignor of one-half to William J. Adams, Chicago, Ill.

Application October 21, 1948, Serial No. 55,797

18 Claims. (Cl. 297—6)



1. In a pressure responsive device, a chamber having a side wall defining a pressure compartment and a pressure delivering throat providing a progressively narrowing wall surface leading smoothly from said side wall, together with an integral elastic diaphragm and plug in said throat having a liner extending from said diaphragm along the wall of said chamber, said diaphragm and plug being deformable to flow outwardly and inwardly along said throat, means connected with said liner for the anchorage thereof, and a body of material having a higher coefficient of thermal expansion than the chamber and confined therein within said liner and diaphragm in all positions of deformation thereof.

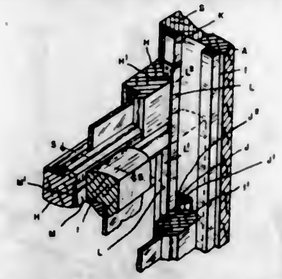
2,593,239

STORM WINDOW STRUCTURE

Victor E. Anderson, Owensboro, Ky.

Application November 18, 1946, Serial No. 710,424

2 Claims. (Cl. 20—52.4)



1. A storm sash and screen combination comprising a window frame, upper and lower sashes having grooved side rails and meeting rails, a parting stop between the side rails of said sashes extending the full length of the frame, combined weatherstrips and slideways secured to said frame on opposite sides of said parting stop having resilient portions engaging the grooves of said side rails and being restricted in length to leave a gap between the adjacent ends thereof which overlaps the meeting rails of said sashes when in closed position, and a weatherstrip of angle cross section with a return bend in one portion thereof and being of a length to bridge said gap and overlap the slideways, said weatherstrip being secured to the outer face of said parting stop with the return bend portion lying adjacent the side of said stop between the same and the side rail of the lower sash.

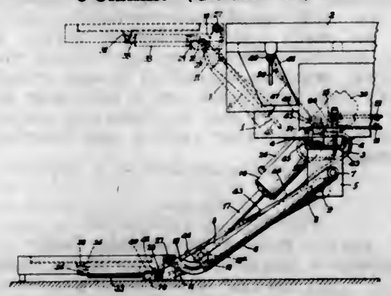
2,593,240

GATE MOVING MEANS FOR VEHICLES

William C. Anthony and Lester W. Wachter, Streator, Ill., assignors to Anthony Company, Streator, Ill., a corporation of Illinois

Application June 16, 1949, Serial No. 99,542

3 Claims. (Cl. 214—77)



1. In combination, a combined load carrying and gate member, a support for said gate member, and power means for raising said gate member and said support, a pivotal connection between said gate member and said support, and power means for tilting said gate, said means including a cylinder and piston assembly, one member of said assembly being pivotally supported on said gate support, the other of said members being pivotally connected to said gate, compression means within said cylinder biased to resist outward movement of said piston, and means for supplying fluid under pressure to said cylinder to move said piston in opposition to said compression means, the outward movements of said piston being effective to tilt said cylinder and said gate upwardly about their respective pivots.

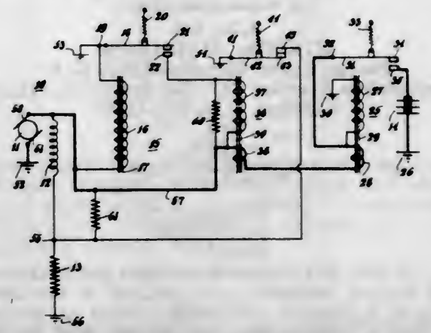
2,593,241

VOLTAGE REGULATOR FOR BATTERY-CHARGING SYSTEM

Robert J. Aust, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application November 17, 1948, Serial No. 60,495

9 Claims. (Cl. 320—33)



7. A regulating system for a battery charger of the generator type having a shunt field, comprising a first relay including a coil in shunt with said field and a vibratable armature for bridging a set of contacts, one of said contacts being fixed and the other on said armature, the frequency of said armature being proportional to the voltage output of said generator versus the battery voltage; a second relay including both voltage responsive and current responsive coils, the voltage coil thereof being connected in parallel with the coil of said first relay through said set of contacts, said voltage coil being connected to said fixed contact, said second relay including a vibratable armature for bridging a set of contacts normally closed when the generator voltage is below a predetermined value; a resistor in series with said shunt field when said normally closed contacts are opened; and a third relay including both voltage and current coils and an armature carrying a contact for engagement with a fixed contact of said relay, said third relay functioning as a cut-out interposed between said battery and said second relay, the current coils of said second and third relays being in series whereby said first relay so assists in the control of the battery charger that only the set of contacts in the second relay are subjected to heavy field current.

2,593,242

SWITCHING TYPE CONVEYER

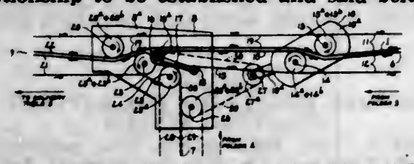
Warren Bacon, Chicago, Ill., and Kenneth H. Hansen, White Plains, N. Y., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application February 21, 1947, Serial No. 730,012

13 Claims. (Cl. 198—79)

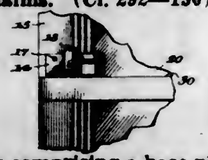
2. The combination with a plurality of conveyors comprising a first, second and third, each being of the belt and pulley type, of switching means of the belt and pulley type selectively to place in series relation said first and second conveyors or said first and third conveyors, said switching means having separate sets of belts

having unlike paths of travel afforded active positions selectively according to the conveyor relationship to be established and said belts of



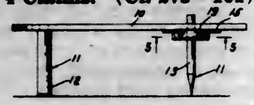
said conveyors with the belts of said switching means providing in either case a continuous run having throughout adjacent belts to receive and grip therebetween the articles to be conveyed.

2,593,243
WINDOW SASH LOCK
Joseph Barry, Richmond Hill, N. Y.
Application January 30, 1950, Serial No. 141,331
3 Claims. (Cl. 292—150)



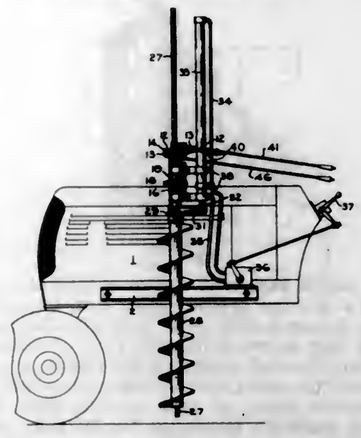
1. A sash lock comprising a base plate having a flat portion adapted to be secured to the upper sash of a window, said plate having an arcuate portion adjacent said flat portion and curving inwardly toward the glass pane of said upper sash, said arcuate portion of the plate having an inverted U-shaped opening therethrough, a locking bar having spaced parallel legs connected at their upper ends and having stop flanges at their bottom ends projecting outwardly therefrom in the same direction, means securing said flanges together to slidably mount said bar on the arcuate portion of the base plate, said legs having alined vertical slots therein, a cap partially covering said locking bar and having depending legs adjacent the legs of said bar, the legs of said cap having alined apertures therein, and a pin passing through said alined slots and apertures and through said opening to releasably secure the locking bar against sliding movement on the base plate.

2,593,244
WRITING GAME PLANCHETTE
John J. Batcha, Detroit, Mich.
Application March 20, 1950, Serial No. 150,664
4 Claims. (Cl. 273—161)



1. An amusement device comprising a planchette having an opening therethrough, a supporting part secured to the underside of the planchette and having a portion spaced below the planchette, an opening through said portion in alignment with the opening in the planchette, a rotatable disc member positioned between the underside of the planchette and the portion aforesaid of the supporting part and having an opening therethrough registering with the openings in the planchette and supporting part, a writing instrument extending freely through said openings, and means on the supporting part for guiding rotation of the member about an axis offset laterally with respect to the axis of the aligned openings in the planchette and supporting part for clamping the writing instrument to the planchette.

2,593,245
POSTHOLE DIGGER
Lester E. Beck, Danville, and Lester R. Callaway, Burlington, Iowa
Application April 15, 1947, Serial No. 741,648
2 Claims. (Cl. 255—22)

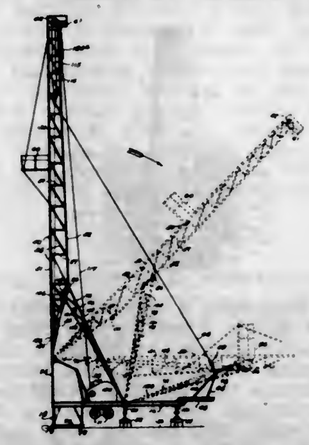


1. A machine for the purpose described comprising, in combination, a post for support substantially vertically upon a tractor, an extension for said post extending into it and adapted to rotate therein, an arm extending laterally from said extension, bars connected to said arm upon opposite sides thereof, a supporting element for an earth auger slidably connected to said bars, a vertically arranged plate suspended from said supporting element, a pair of shafts mounted on said plate, one arranged vertically and the other horizontally, supports on said plate for said shafts, driving gears connecting said shafts in driving relation, driving means for driving said shafts, a shaft of non-circular configuration in cross-section slidable through the vertically arranged shaft or sleeve and connected thereto to be rotated thereby, the interior of the vertically arranged shaft or sleeve being similarly non-circular in cross-section and cooperating with the first mentioned vertically arranged shaft, an earth auger connected to the shaft of non-circular cross-section for vertical motion therewith, brackets connected to and extending laterally from said plate, and a hydraulic mechanism supported by said brackets and connected to said auger to cause raising and lowering of the auger.

2,593,246
PORTABLE DERRICK
Emil A. Bender, Bakersfield, Calif.
Application August 9, 1948, Serial No. 43,268
12 Claims. (Cl. 189—16)

1. A portable derrick structure comprising a base, an upstanding structure carried by the front end of said base, a derrick body having one side pivotally connected to said upstanding structure for swinging movement on a horizontal axis, an elevating structure pivotally connected at one end to said base for swinging movement on a fixed horizontal axis parallel to and spaced from said first-named axis, said derrick body being movable between an inoperative substantially horizontal position and a substantially vertical operative position, and said elevating structure lying beneath the opposite side of said derrick body when the latter is in inoperative position, the other end of said elevating

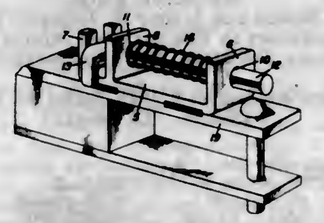
structure movably engaging said derrick body from said opposite side of said derrick body, and means having mechanical connection with said elevating structure for applying force to said elevating structure to swing it upwardly to move said derrick body to operative position, said op-



posite side of said derrick structure having a shoulder engaging said other end of said elevating structure when said derrick is in its operative position whereby said elevating structure serves as a support for said opposite side of said derrick body

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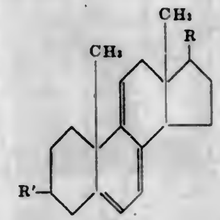
2,593,247
COUPLING PIN LOCK FOR TRAILER HITCHES
Arland E. Benteman, Randolph, Kans.
Application October 10, 1950, Serial No. 189,430
1 Claim. (Cl. 280—33.15)



A coupling pin lock for trailer hitches comprising a mounting adapted for attaching to a trailer tongue, upstanding guides at front and rear ends of the mounting, said front guide having an opening and said rear guide having a slot in its upper edge, an intermediate guide lug on the mounting forwardly of the rear guide to form a pocket therebetween, said intermediate guide lug having an opening, a locking pin slidable and rotatable in said openings of the front and intermediate guides, spring means between the front and intermediate guides and engaging the locking pin to project the latter forwardly into a position overlying a coupling pin at the front end of the tongue, and a handle projecting laterally at the rear end of the locking pin and swingable downwardly into said pocket to hold the locking pin in a forwardly projecting locking position, and said handle being movable rearwardly through said slot into a position behind the rear guide to hold the locking pin in its retracted unlocked position.

2,593,248
ANDROSTATRIENES AND METHOD OF PREPARING THE SAME
Seymour Bernstein and Karl J. Sax, Pearl River, N. Y., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application October 27, 1950, Serial No. 192,629
14 Claims. (Cl. 260—397.4)

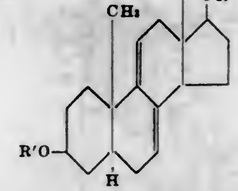
1. Compounds of the group having the general formula:



in which R is a member of the group consisting of oxygen, hydroxy, lower alkanoyloxy and benzoyloxy radicals and R′ is a member of the group consisting of hydroxy, lower alkanoyloxy and benzoyloxy radicals.

2,593,249
$\Delta^{7,9}$-ANDROSTADIENES AND METHOD OF PREPARING THE SAME
Seymour Bernstein, Pearl River, N. Y., and Dominic J. Giancola, Jersey City, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application May 8, 1951, Serial No. 225,272
9 Claims. (Cl. 260—397.5)

1. Compounds having the general formula:



in which R and R′ are members of the group consisting of hydrogen, lower alkyl carbonyl and benzoyl radicals.

2,593,250
HYDROCARBON SYNTHESIS
James F. Black, Roselle, and Kenneth K. Kearby, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application July 30, 1947, Serial No. 764,928
2 Claims. (Cl. 260—449.6)

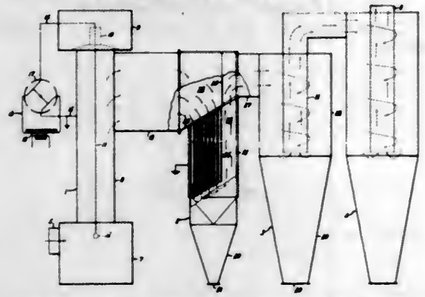
1. An improved process for producing valuable conversion products from CO and H_2 in the presence of iron catalysts which comprises contacting said CO and H_2 in synthesis proportions at synthesis conditions with catalyst particles containing ferrosilicon from which about 1.5 to 3 weight per cent of silicon based on the total catalyst, has been removed by etching with a caustic alkali solution and recovering a product containing normally liquid hydrocarbons.

2,593,251

MATERIAL COLLECTING APPARATUS

Louis N. Bonacci, Pampa, Tex., and Alfred Z. Hahn, Bound Brook, N. J., assignors to Research Corporation, New York, N. Y., a corporation of New York

Application June 18, 1946, Serial No. 677,558
7 Claims. (Cl. 183—7)



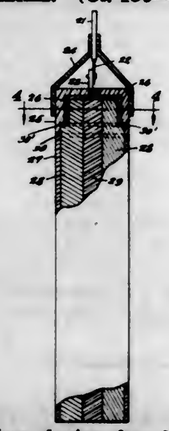
1. Apparatus for removing suspended particles such as carbon black from gases comprising means defining a gas stream conduit having located therewithin successively in the direction of gas flow particle-charging means including means for subjecting the gas stream to corona discharge, means including a plurality of elongated conduits for constraining the gas stream to flow in parallel into a plurality of relatively narrow paths of substantial extent in the direction of flow, and particle-collecting means.

2,593,252

GALVANIC BATTERY

George E. Booth, Long Beach, Calif.

Application November 12, 1946, Serial No. 709,211
2 Claims. (Cl. 136—100)



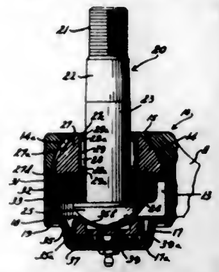
1. In a sensing device for determining fluid levels a galvanic action sinker comprising: a socket of insulating material, spaced terminal contacts in the socket, internal screw threads carried by the socket and the contacts, an elongated tubular shell of insulating material, spaced electrodes of different potentials extending longitudinally through the shell, an insulating bar interposed between the electrodes, lugs carried by the bar and by the electrodes and projecting longitudinally beyond one end of the shell, and external screw threads carried by the lugs for threaded engagement with the threads in the socket whereby electrical communication will be established between the electrodes and the contacts.

2,593,253

JOINT

James H. Booth, Venice, Mich., assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application December 20, 1947, Serial No. 792,896
1 Claim. (Cl. 287—90)



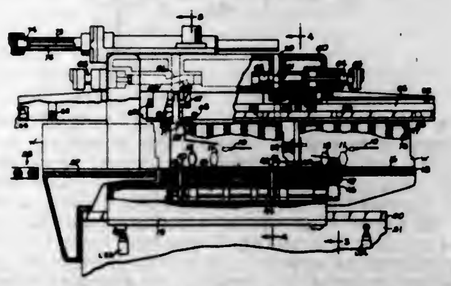
A joint comprising a housing having a bearing surface therein, a bearing ring freely tiltable on said bearing surface and having a cylindrical bore extending therethrough, said bearing ring having a ferrous face directed toward the opposite side from said bearing surface, a stud extending through said bearing ring and freely rotatable in said bore, said stud having a ferrous bearing portion, said bearing portion affording a shoulder underlying said bearing ring, a non-ferrous material disk-type thrust washer disposed between said shoulder and said bearing ring in direct frictional resistance engagement with the opposing shoulder and said ferrous face portion of the bearing ring, said washer having low static frictional resistance characteristics, and spring means acting to thrust said stud and said bearing ring toward one another and thereby assure said resistance engagement.

2,593,254

MACHINE TOOL

Earl M. Bowen and Arthur W. Johnson, Rockford, Ill., assignors to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois

Application August 2, 1946, Serial No. 687,834
9 Claims. (Cl. 90—21)



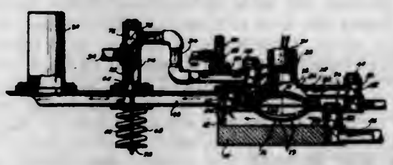
1. A machine tool having, in combination, a carriage reciprocable back and forth and adapted to support two workpieces in spaced end to end relation, a cutter operable in the advance of said carriage to machine the leading one of said two workpieces, a transfer member mounted on said carriage for movement relative thereto along the path of reciprocation thereof, power actuated means for feeding said carriage forwardly a distance sufficient to machine the leading workpiece on the carriage and retracting the carriage a corresponding distance, means on said member engageable with and disengageable from both of said workpieces, means operable after the feeding movement of said carriage to actuate said transfer member and advance both of the workpieces along the carriage to carry the machined piece off from the carriage and to bring the trailing piece into the leading position thereon, a stop mounted on said carriage in position to limit the advance of workpieces onto the carriage and locate the same in said trailing position, said stop being retractable to permit advance of the workpiece along the carriage to said leading position, a dowel engageable with the leading workpiece on the carriage to locate the same accurately thereon, and means for retracting said stop and said dowel after the feeding movement of the carriage.

2,593,255

HIGH-PRESSURE DIAPHRAGM PUMP

George F. Bowman, Quepos, Costa Rica

Application October 26, 1946, Serial No. 705,987
4 Claims. (Cl. 103—11)



1. A hydraulically actuated diaphragm pump comprising a diaphragm, a fluid pressure actuating chamber on one side of said diaphragm and a pump chamber on the other side thereof, perforated rigid diaphragm stops on opposite sides of said diaphragm, fluid inlet and fluid outlet conduits connected to said pump chamber, operating fluid inlet and outlet passages connected to said actuating chamber, a piston reciprocable in said actuating chamber, inwardly and outwardly opening check valves in said pump chamber and controlling said inlet and outlet conduits respectively, a by-pass connecting said actuating outlet passage to a source of supply, a pressure relief valve in said by-pass line, a normally closed control valve disposed in said outlet passage, and means responsive to a predetermined pressure in said outlet conduit for opening said control valve, said last means including a further piston, means for applying fluid pressure from said outlet conduit to one side of the further piston, spring means opposing said fluid pressure and a rod carried by the further piston for actuating said control valve.

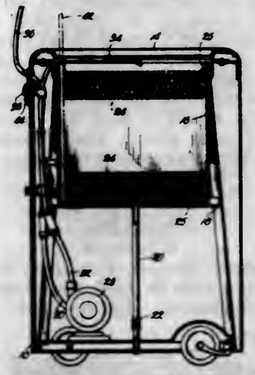
2,593,256

CONVERTIBLE CLEANING MACHINE FOR AUTOMOBILE COOLING SYSTEMS AND AUTOMOBILE PARTS

Albert J. Boyer, Kansas City, Kans.

Application October 8, 1945, Serial No. 620,965
1 Claim. (Cl. 134—111)

Apparatus for cleaning the cooling system of an engine comprising a mobile framework; an open top tank secured to said framework adjacent the uppermost end thereof and adapted to contain a filling of cleaning fluid; a foraminous tray normally resting in an inverted position in the tank upon the bottom thereof and in covering relationship to the latter; a fluid pump and prime mover therefor underlying said tank and mounted on the framework; a tube interconnecting the inlet of said pump and the tank above said tray on the bottom of the tank; a pair of conduits adapted to extend to opposed points of connection with an engine cooling system to be cleaned, one of said conduits joining with the outlet of said pump, the other conduit passing into the tank and terminating at one end thereof within said tray; means on the tray for hooking the same in an upright position on the uppermost edge of the tank, said one conduit having a pair of branches, one



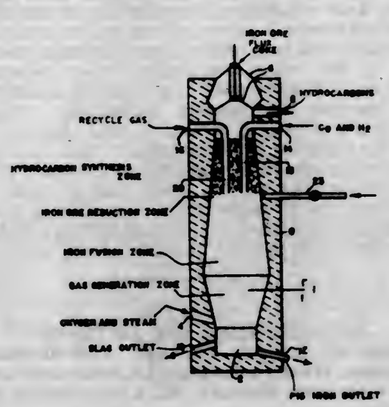
branch being adapted to lead to one of said points of connection with the cooling system, the other branch extending into said open top of the tank for flushing articles to be cleaned and carried by the tray when in said upright position; and a shut-off valve for each branch respectively for controlling the fluid flow therein as the pump is placed in operation.

2,593,257

BLAST FURNACE OPERATION

John M. Bradley, Cambridge, Mass., and Henry J. Ogorzaly, Summit, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

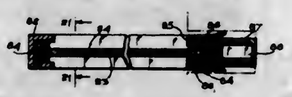
Application August 26, 1948, Serial No. 46,244
9 Claims. (Cl. 75—41)



1. In the production of pig iron from iron oxides in a blast furnace wherein a charge comprising a mixture of iron oxide ore, fluxing materials and carbonaceous solids is charged to the top of said blast furnace, a blast containing a mixture of oxygen and steam is supplied to a lower portion of said blast furnace, a gas is withdrawn from the top of the blast furnace, and molten pig iron and slag are withdrawn from the bottom of the blast furnace, the improvement which comprises supplying oxygen and

steam in the approximate molar proportion of 0.5–2 to 1, controlling the amount of said oxygen so that it supplies by reaction with combustible matter present in said blast furnace sufficient heat to support substantially complete smelting of said iron oxide and substantial reduction of said steam to hydrogen in the presence of carbon, so as to form a gas rich in CO and H_2, maintaining the temperature in an upper portion passed through by both said charge and said gas containing CO and H_2 at a level of about 500° to 800° F., contacting in said upper portion said gas containing H_2 and CO with said charge for a time conducive to the synthesis of hydrocarbons from said CO and H_2 in contact with iron of said iron oxide, and recovering a gas containing hydrocarbons from said upper portion.

2,593,258
WINDOW
Vladimir Breuer, Flushing, N. Y.
Application July 30, 1948, Serial No. 41,519
3 Claims. (Cl. 20—52.4)

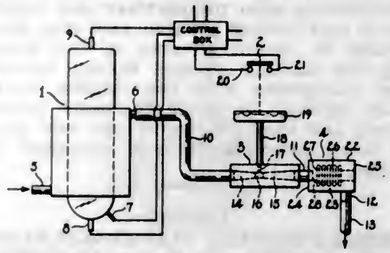


1. Means for frictionally retaining a window sash in any desired vertically raised position in its respective guide grooves of a window frame, comprising a channel member extended vertically along one side of the sash with the free ends of its side arms extended toward the said one side of the sash and the outer face of its intermediate arm bearing against the wall of the frame defining the inner end of the respective guide groove, the said one side of the sash having spaced parallel vertically extended slots into which the side arms of said channel member slidably extend, an elongated serpentine leaf spring within said channel member and operating between the said one side of said sash and the inner face of said intermediate arm urging said channel member outward and into frictional contact with the wall of the frame defining the inner end of the respective guide groove, means anchoring the lower end of said spring in said channel member, and means adjustably connecting the top end of said spring to said channel member for controlling the tension of said spring, said anchoring means comprising an inwardly directed indent formed at the lower end of said intermediate arm of said channel member, and a hook formed on the lower end of said spring and hooked over the bottom edge of said indent.

2,593,259
ACID CLEANER AND DETERGENT
George E. Brissey, Chicago, and Harland H. Young, Western Springs, Ill., assignors to Swift & Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application November 13, 1948, Serial No. 59,968
5 Claims. (Cl. 252—136)

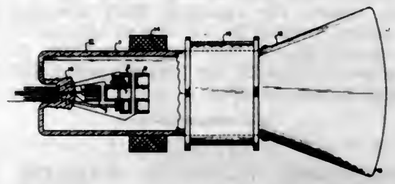
1. A composition for dissolving a film of coagulated milk protein comprising the following ingredients: phosphoric acid, an alkali metal acid sulfate, and an organic acid stronger than acetic and weaker than a mineral acid, said ingredients being proportioned with water to form a solution having a pH below 1.8 for dissolving a film of coagulated milk protein.

2,593,260
COOLING SYSTEM FOR ELECTRON TUBES AND OTHER DEVICES
William E. Brown, Pewaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 12, 1946, Serial No. 703,090
4 Claims. (Cl. 315—118)



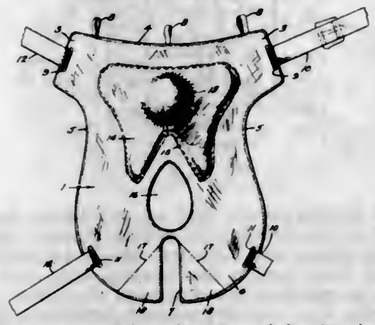
1. In combination, an electric device which generates heat as an incident to its operation, a cooling system for said device comprising means for confining the flow of a coolant fluid between given points after it leaves said device, said means including means wherein a certain value of vacuum is produced as a function of a normal rate of fluid flow therethrough and means thermally responsive to increase in the temperature of said fluid above a predetermined value to reduce the rate of fluid flow through the second mentioned means whereby the vacuum is reduced, and an electric switch in circuit with said device and having operating means responsive to the vacuum produced in said second mentioned means for retaining said switch in a given position at said certain value of vacuum and affording return of said switch to a normal position to terminate operation of said device when said vacuum is reduced a given amount.

2,593,261
CATHODE-RAY TUBE
William Hudspith Buchanan, Writtle, England, assignor to Cinema-Television Limited, London, England, a British company
Application November 21, 1949, Serial No. 128,533
In Great Britain December 14, 1948
6 Claims. (Cl. 313—71)



1. A cathode-ray image-reproducing tube having residual gas contained therein comprising: an image-reproducing screen positioned at one end of said tube; an electron gun structure positioned at the opposite end of said tube for forming a cathode-ray beam in said tube and for directing said beam onto said screen; deflection elements for scanning said beam over said screen; a modulating electrode for modulating said beam in accordance with image intelligence; and an auxiliary electron source positioned at said opposite end of said tube for developing electrons in said tube in the region substantially surrounding the cathode-ray beam produced by said electron gun structure independent of said cathode-ray beam and having a low velocity relative to the electrons in said beam to produce ionization of said residual gas and prevent defocusing of said beam upon modulation thereof by said image intelligence.

2,593,262
HERNIA SUPPORT
John Calabrese, Weston, W. Va.
Application February 12, 1951, Serial No. 210,599
1 Claim. (Cl. 128—96)



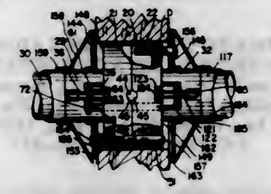
A truss comprising front and back pieces of identical configuration and formed from flexible material, said front and back pieces being stitched together throughout their peripheries, there being oppositely extended side wings formed upon said pieces at the upper end thereof, a medially located pad disposed between said pieces adjacent the upper end thereof, said pad having a high center portion adapted to apply pressure to a ruptured area and a lower portion surrounding said higher portion and design to give protection to portions of the intestinal tract surrounding the ruptured area, the low portion of said pad being widest at its upper end and tapering downwardly and being formed with an indentation of inverted V-shape at its lower end, and a cup-like scrotal support at the lower end of said pieces, said scrotal support comprising partially overlapped cup portions secured together to define a cup of selected depth.

2,593,263
DRAPERY CONTROL UNIT
William L. Carter, Tulsa, Okla.
Application February 2, 1951, Serial No. 209,173
4 Claims. (Cl. 160—348)



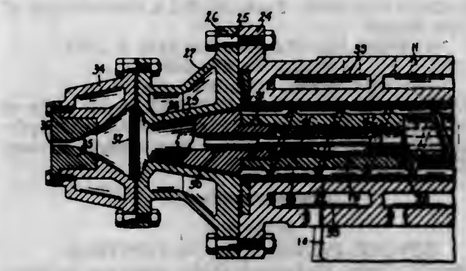
1. A drapery pleating and supporting device comprising a channeled support adapted to be supported above an opening to the rear of a drapery, said channeled support having its channel rearwardly disposed, a plurality of travellers to the rear of the channel and slidably mounted in the channel, double link connections between adjacent travellers and movable across the channeled support in a plane above the channeled support, the forward ends of said link connections terminating in downwardly extending pleat forming arms hingedly connected to each other at spaced points, thereby bracing and stiffening each other at points between the travellers, the upper sides of said travellers having forwardly extending drapery supporting members extending across the upper side of the channeled support, said drapery supporting members being shorter than the links.

2,593,264
DOORKNOB SPINDLE RELEASING MEANS
Robert C. Cerf, Jr., Los Angeles, Calif., assignor to Hollymade Hardware Manufacturing Company, Los Angeles, Calif., a corporation of California
Application December 30, 1948, Serial No. 68,215
2 Claims. (Cl. 292—352)



1. In a door latch mechanism having separate inside and outside tubular spindles upon which inside and outside knobs are mounted respectively, with retractor means for a spring biased latch bolt operable by the inner ends of said spindles; a hollow cylindrical retractor body adapted to be mounted in a bored hole in a door, said body having an outside sleeve bearing having a slot therein, an outside spindle rotatably mounted in said bearing sleeve and having a slot in registration with the slot in the bearing sleeve, a spring biased retainer key extending into said slots to hold said spindle against longitudinal movement and adapted to be retracted to release said spindle, said retainer key having a slot therein, a retainer key releasing means adapted to be accessible from the inside of a door, said releasing means including a shaft extending from the inside end through said body, said shaft having an eccentric pin at its outer end engaging the slot in said retainer key and a slot in its inner end adapted to be engaged by a tool for rotating the shaft to retract the retainer key in the slot in the bearing sleeve.

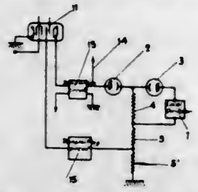
2,593,265
APPARATUS FOR TREATING PLASTIC MATERIALS
Donald C. Chase, Milford, and John M. Joyner, Winsted, Conn., assignors to Farrel-Birmingham Company, Incorporated, Ansonia, Conn., a corporation of Connecticut
Application October 11, 1950, Serial No. 189,656
4 Claims. (Cl. 18—12)



1. An apparatus for treating plastic materials comprising a casing providing a chamber having a discharge opening adjacent one end, a rotary propeller in the chamber to force the material therethrough and extrude it through said opening, said propeller having a member of frusto-conical shape adjacent its forward end, said casing having a cooperating chamber portion of similar shape, a base on which said casing is slidably mounted, a housing for a drive mechanism carried by said base adjacent the casing

into which housing a propeller shaft extends, an adjusting nut rotatably carried by a part of said housing for adjustment thereon in a longitudinal direction relatively to the propeller shaft, and means connecting said nut to said casing to adjust the latter relatively to the propeller shaft.

2,593,266
APPARATUS FOR SELECTING SIGNALS OF A PARTICULAR FREQUENCY
Louis Chauveau, Paris, France
Application July 1, 1947, Serial No. 758,382
In France February 21, 1947
9 Claims. (Cl. 250—20)



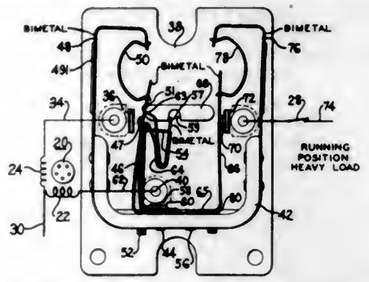
8. In a high frequency amplifier, a device for selecting a high frequency signal from undesirable oscillations accompanying said signal, comprising means for producing a local oscillation having the same frequency and phase as the signal to be selected and an amplitude greater than that of the latter, two rectifying elements supplied with the signal and the local oscillation respectively, a circuit in which both said rectifying elements are connected in opposition whereby the first rectifying element is blocked by the second so long as the oscillations supplied to said rectifiers respectively are identical with respect to their phases and frequencies, and means for controlling the amplifier by the differential current flowing in said circuit during the time intervals corresponding to the suppressed alternations of the local oscillation and produced by the undesirable oscillations accompanying the signal.

2,593,267
ORGANOTIN COMPOUNDS AND COMPOSITIONS CONTAINING THE SAME
James M. Church, Tenafly, Ernest W. Johnson, Mountainside, and Hugh E. Ramsden, Metuchen, N. J., assignors to Metal & Thermit Corporation, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 3, 1951, Serial No. 224,448
13 Claims. (Cl. 260—45.75)

1. The reaction product of 0.25 to 10 mols of an organotin oxide with 1 mol of an aldehyde, said organotin oxide having two organo groups connected to the tin atom.

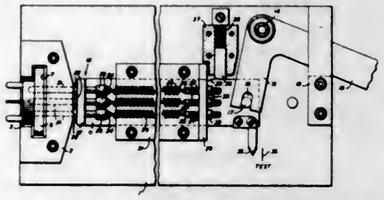
2,593,268
SINGLE-PHASE MOTOR CONTROL
Harry F. Clark, Oakwood, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application July 20, 1948, Serial No. 39,718
14 Claims. (Cl. 318—221)

1. A control for an electric motor having main and phase windings including a first cantilever supported single bimetal strip means and a second cantilever supported single bimetal strip means each having a movable end portion, a toggle spring means extending between and connecting the movable end portions of said strip means, a switch means connected to and operated by said first strip means, said switch means and said first strip means being connected in series electrical circuit relationship with said phase winding to change the phase winding from the starting circuit arrangement to the running



circuit arrangement, and an additional heating means connected to the motor circuit and extending along and mounted closely adjacent one of said strip means for heating said one strip means to regulate the change of the phase winding from the running circuit condition to the starting circuit condition.

2,593,269
TEST FIXTURE FOR VACUUM TUBE SOCKETS
Harry W. Clifford, East Orange, and Robert MacDonald, Maplewood, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1950, Serial No. 182,530
6 Claims. (Cl. 73—9)

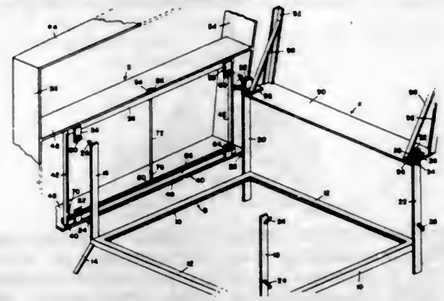


1. In a mechanism for testing the holding pressure of socket contacts, the combination with a base and a support mounted on the base for positioning the socket, of a set of test pins corresponding in number to the contacts to be tested, said contacts being adapted to receive the pins in frictional engagement, means for bringing the pins into such engagement with the contacts, and spring means for each pin, adapted to exert a pull upon the pins approximately equal to a required value for the frictional holding force.

2,593,270
ARTICLE OF FURNITURE
Wayne L. Clifton, Sumter, S. C., assignor of forty-five per cent to William Harry Pate, Jr., and ten per cent to J. William Cox, both of Sumter, S. C.
Application June 12, 1950, Serial No. 167,625
9 Claims. (Cl. 155—196)

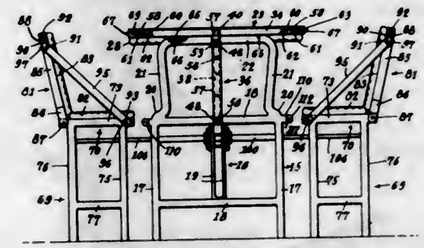
1. An article of furniture comprising a base member and side members detachably secured thereto, said base member having means to support it on the floor and front and rear posts on each side thereof, said posts each having spaced outwardly presented upper and lower supporting clasps, said side members each having an upper and a lower horizontal bar, each of said bars

having inwardly presented pairs of clasps thereon, the clasps of said pairs being spaced from one another a distance substantially equal to that between said posts whereby they may engage the cooperating clasps on said posts, means for



mounting one of said bars for vertical bodily shifting movement with respect to the other of said bars, and manually operable means on said side members engaging said movable bar for vertically shifting it to secure said cooperating clasps in engagement with one another.

2,593,271
ARTICLE OF FURNITURE
Blanche Lucille Cockrell, Seat Pleasant, Md.
Application August 21, 1946, Serial No. 691,955
1 Claim. (Cl. 155—43)



An article of furniture including supported spaced uprights, a seat located between the uprights, a furniture component, means for locating the furniture component in horizontal position on the uprights to form a table top or in position on the uprights to form a back for the seat, composite links, each link including separate members which are slidable relative to each other to thereby adjust the length of the link, means for securing the separate members of each link in predetermined relation to each other to determine the length of the link, means for securing one terminal of each composite link to the side of an upright, and means for securing the opposed terminal of the composite link to the side of the furniture component whereby the links secure the furniture component on the uprights either in position to form a table top or a seat back.

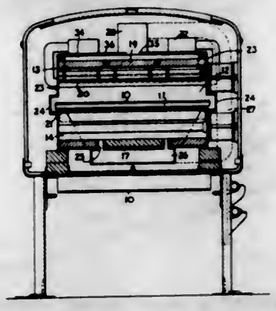
2,593,272
LAMP SHADE HAVING SHADE MATERIAL SECURED TO FRAME BY MEANS OF STIFF BUT FLEXIBLE STRIPS
Benjamin J. Cohon, Paterson, N. J.
Application July 31, 1947, Serial No. 764,942
8 Claims. (Cl. 240—108)

1. A lampshade comprising a frame, shade material lying taut against one side of said frame, means to secure said material on the lower edge of said frame, and means to secure said material on the upper edge of said frame, said securing means cooperating to hold the material taut, and at least one of said securing means comprising a stiff but flexible strip having an edge portion se-



cured to an edge portion of the shade material and extending substantially continuously and uninterruptedly along the other side of said frame substantially parallel to the shade material, the other edge portion of the strip being free and unsecured.

2,593,273
BAKING OVEN
Edward Milner Crosland, Culcheth, near Warrington, England, assignor to T. & T. Vicars Limited, Earlestown, Newton-le-Willows, England, a British company
Application February 13, 1948, Serial No. 8,225
In Great Britain July 13, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires July 13, 1959
3 Claims. (Cl. 107—55)

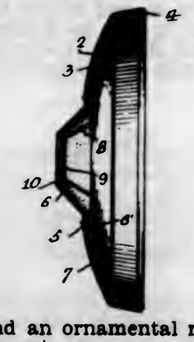


3. An oven having a baking chamber, a conveyor having an upper run on which the goods to be baked are carried through the chamber, longitudinal recesses in the baking chamber side walls adjacent the upper run of the conveyor and being open throughout their length to the baking chamber and laterally enclosing said conveyor run, the upper walls of the recesses being spaced above the conveyor run thereby to provide a baking area for goods disposed at the edges of the conveyor.

2,593,274
HUBCAP
Paul Dandurand, Montreal, Quebec, Canada
Application March 20, 1948, Serial No. 16,100
7 Claims. (Cl. 301—108)

7. A hub cap comprising a circular and dished member having a central opening, a transparent non-shatterable insert slidably fitted in and protruding outwardly from the plane of said opening and having a flange engaging the inner surface of said member, and a strip metal spring having its ends seated at the edge of said member and

its central portion bearing against said insert, mutually adjacent parts of said insert and spring



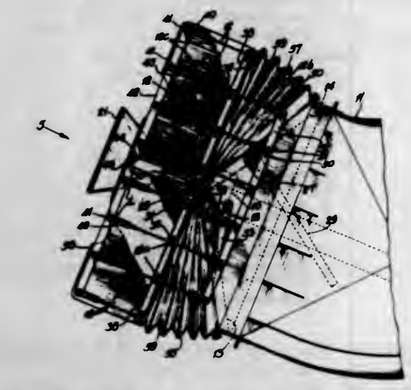
being flat, and an ornamental member inserted between said parts.

2,593,275

SPRAYING AND DUSTING MACHINE

George Williams Daugherty, Orlando, Fla., assignor to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware

Application June 26, 1947, Serial No. 757,295
17 Claims. (Cl. 43—148)



1. In a spraying and dusting machine, an air tunnel through which is generated a blast of air, a series of vanes at the end of the tunnel for deflecting the blast of air angularly relatively to its generated flow direction, means mounting each of said vanes intermediate the ends thereof for movement bodily as a unit relatively to said tunnel, means for flexing each of said bodily moved vanes whereby better to deflect the blast of air, and means for feeding, spraying or dusting material to be accepted by said blast of air.

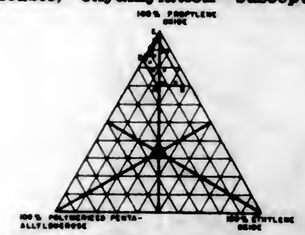
2,593,276

OXYALKYLATED DERIVATIVES OF CERTAIN ALLYL POLYMERS

Melvin De Groote, St. Louis, Mo., assignor to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware

Continuation of applications Serial Nos. 173,048 and 173,050, July 11, 1950. This application August 16, 1951, Serial No. 242,165
26 Claims. (Cl. 260—17.4)

1. Hydrophile synthetic product; said hydrophile synthetic product being an oxyalkylation product of (A) an alpha-beta alkylene oxide selected from the class consisting of ethylene oxide, propylene oxide, butylene oxide, glycide, methylglycide, methyl glycidyl ether, ethyl glycidyl ether and propyl glycidyl ether; and (B) an organic solvent-soluble, oxyalkylation-susceptible, hydroxylated polymerization product of a member of the class consisting of allylsucrose, and allylsucrose in combination with other co-polymerizable allyl compounds; in said combination the weight percentage of allylsucrose being not less than 10% and not over 90%.

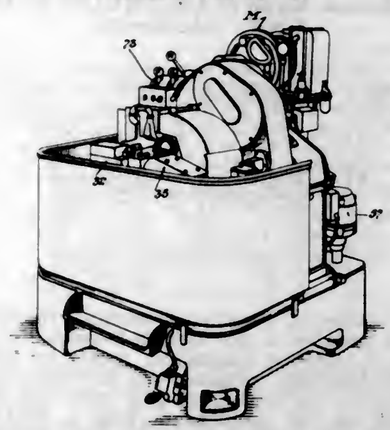


2,593,277

SINGLE SPINDLE CHUCKING MACHINE

Alfred E. Drissner, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a corporation of Ohio

Application September 6, 1946, Serial No. 695,171
6 Claims. (Cl. 82—2)



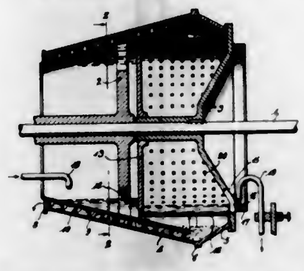
1. A metal working machine comprising, a supporting structure having a front, rotary spindle means supported in said front and having an axis of rotation at an angle to said front and also adapted to hold a workpiece mounted thereon by an operator standing in front of said supporting structure, power drive means connected to the spindle for rotating the same, first fluid operated means controlling said power drive means, a manually operated spindle valve located on the front of said supporting structure adjacent to said rotary spindle and governing said first fluid operated means, cross slides mounted on the front of the supporting structure and moveable in a line of movement at an angle to the said axis of rotation and also adapted to carry tools towards and away from said axis of rotation, feed drive means having cam engagement with the cross slides to control the movement thereof, second fluid operated means controlling said feed drive means, and a manually operated feed valve located on the front of said supporting structure adjacent to said rotary spindle and governing said second fluid operated means.

2,593,278

CENTRIFUGE FOR SEPARATING A LIQUID FROM SOLID MATERIAL

George Wilfrid Edwards, Mitry le Neuf, France, assignor to Société Anonyme Française pour la Séparation, l'Emulsion et le Mélange (procédés S. E. M.), Paris, France

Application April 1, 1946, Serial No. 658,746
In France April 12, 1945
8 Claims. (Cl. 233—2)



1. A device for separating liquid from solid material comprising a centrifugal bowl rotatably mounted around an axis, means for introducing solid carrying liquid material inside said bowl, a rotary filtering membrane located inside said bowl having substantially the shape of a surface of revolution around the axis of said bowl, and extending through a substantial length in the direction of said axis, at least a substantial part of the surface of said rotary filtering membrane having a radius greater than the inner radius of the liquid annulus to be formed centrifugally inside said bowl, means cooperating with said rotary filtering membrane for defining a chamber communicating with the remainder of the bowl, as regards the liquid to be treated, only through the pores of the filtering membrane and means for removing the solid free liquid from said chamber on the inside of said rotary filtering membrane.

2,593,279

RECLAIMING RUBBER

Joseph C. Elgin, Princeton, N. J., assignor to U. S. Rubber Reclaiming Company, Inc., Buffalo, N. Y., a corporation of New York

No Drawing. Application July 11, 1947, Serial No. 760,501
10 Claims. (Cl. 260—720)

1. A method of reclaiming vulcanized rubber which comprises heating such material to a temperature not substantially less than 300° F. and below the temperature of thermal decomposition of the rubber in the presence of not over 15% of an organic sulfur-containing compound of the class consisting of aliphatic mercaptans, and aliphatic disulfides in which a carbon to which sulfur is directly attached has three carbon atoms attached thereto.

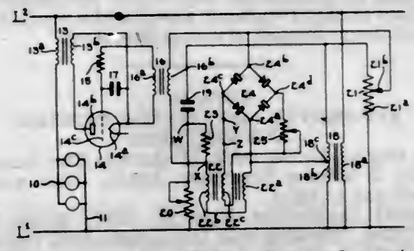
2,593,280

PHASE-SHIFT CIRCUIT

William H. Elliot, Whitefish Bay, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware

Application December 9, 1950, Serial No. 199,963
8 Claims. (Cl. 315—294)

1. For supplying and effecting adjustment of the phase angle of a voltage applied to a control circuit, a network for subjection to supply of alternating current comprising an intermediately tapped impedance element, second and third impedance elements having different impedance characteristics with respect to each other connected in series and together in parallel with the first mentioned impedance element, means including fourth and fifth impedance elements having different impedance characteristics with respect to each other in circuit between the tap



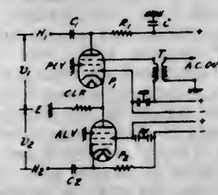
of said first mentioned impedance element and the connection between said second and third impedance elements, and an adjustable voltage divider, said fourth impedance element having means in circuit with the adjusting element of said voltage divider for effecting variation in its impedance in accordance with the adjustment of said adjusting element.

2,593,281

VACUUM-TUBE MIXER AND CIRCUITS THEREFOR

Mohamed Abdu Hassan El-Said, Giza, Egypt

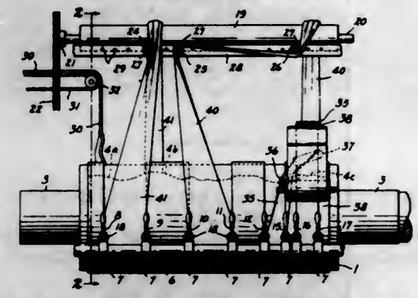
Application July 8, 1947, Serial No. 759,623
In Great Britain June 18, 1947
7 Claims. (Cl. 172—245)



1. A mixer circuit comprising in combination two vacuum tubes each having at least a cathode, a control grid, a plate and at least one grid therein between said plate and control grid, a pair of input circuits having a common point, said two tubes being connected so that the cathode of one is connected to the plate of the other, the junction point being connected to said common point by means of a coupling resistor, one of said input circuits being connected between the plate of said one tube and the common point while the other input circuit is connected between the cathode of said other tube and the common point, means for applying one input wave to one input circuit, means for applying the other input wave to the other input circuit, an output circuit for deriving from said mixer a mixed multiplied output from an output electrode in said one tube other than said cathode or control grid, said one tube being arranged and set to operate so that the current in said output electrode at any instant is proportional to the product of an exponential function of its control grid to cathode voltage and a linear function of its plate voltage, said other tube being arranged and set to operate so that its plate current varies logarithmically at any instant against its cathode to plate voltage, said coupling resistor between said two electron discharge devices being so preadjusted as to compensate accurately the instantaneous plate rec-

tification inherent in the exponential function of said one tube by means of the instantaneous grid rectification produced by the logarithmic characteristic of said other tube such that the change in said output electrode current consequent upon the application of said two input waves constitutes three components in all, one component is proportional to the instantaneous product of said two input waves and a component proportional to each of said input waves.

2,593,282
APPARATUS FOR MIXING RUBBER AND THE LIKE
Max Engler, Akron, Ohio, assignor to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Original application May 23, 1946, Serial No. 671,684. Divided and this application October 18, 1950, Serial No. 190,690
1 Claim. (Cl. 18—2)



In combination in rubber milling apparatus a pair of driven mill rolls for sheeting rubber and the like, a driven roller and means mounting the roller in spaced relation above the mill rolls, a support member adjacent and substantially paralleling the roller, guide rollers mounted in spaced relation along the length of the support member, a plurality of cutters and means mounting the cutters to operate on a rubber sheet carried by one of the mill rolls to divide such sheet into a plurality of ribbons so that a plurality of the rubber ribbons can be withdrawn from said one mill roll, looped over the driven roller, engaged by the guide rollers so as to be constrained to predetermined separate paths and separately returned to the rolls at points spaced axially along the rolls from the points of withdrawal, an endless driven conveyor having one end disposed adjacent one of the mill rolls so that other rubber ribbons can be led onto the conveyor for withdrawal in unison from said last mentioned mill roll, and guide means for engaging one of said other ribbons intermediate the one mill roll and the conveyor to support said one ribbon and to guide it into super-imposed contacting relation to another of said other ribbons, the one rubber ribbon being thereby supported to contact the other rubber ribbon initially at a point beyond the point of initial contact of such other ribbon and the conveyor.

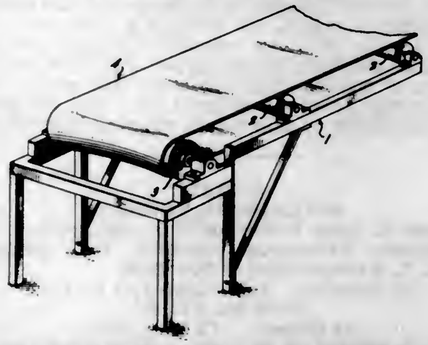
2,593,283
WEEDER
Harry D. Eriebach, Sr., Ontario, Oreg.
Application November 3, 1948, Serial No. 58,123
3 Claims. (Cl. 294—50)

1. A weeder comprising a tubular handle having an inertia member slidably disposed therein, prongs extending from one end of said handle, a plunger including a head disposed in said handle, a stem attached to said head and extending through one end of said plunger, a prong wiper attached to said stem adjacent said prongs, said inertia member contacting said head when said



handle is shaken to urge said plunger outwardly of said handle, and a spring engaging said head and reacting on said handle to constantly urge said plunger inwardly of said handle.

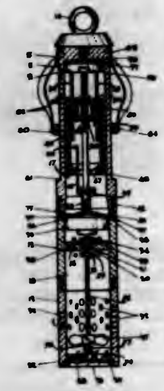
2,593,284
BELTING
Andrew Travers Ewell, Atlanta, Ga., assignor to Don P. Gavan, Atlanta, Ga.
Application December 19, 1945, Serial No. 635,861
8 Claims. (Cl. 198—191)



4. A troughing conveyor belt comprising a group of flexible longitudinally extending tensioning members arranged side by side and parallel to each other, a flexible body member in which the tensioning members are embedded, the tensioning members lying in the center longitudinal section of said body being composed entirely of twisted strands of steel and the tensioning members lying in the opposed outer longitudinal sections of said body consisting of wire strands twisted about a center core composed of an elastic material.

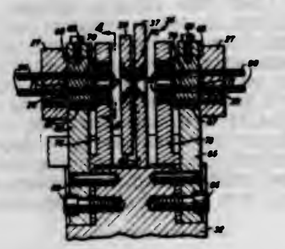
2,593,285
OIL WELL FLOWMETER
Charles H. Fay, Houston, Tex., and Maurice Stephenson, Maracaibo, Venezuela, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application April 26, 1948, Serial No. 23,336
12 Claims. (Cl. 73—155)

1. A fluid flowmeter comprising an elongated housing adapted to be lowered into a well, transverse wall means dividing said housing into a closed upper chamber and an open lower chamber, said housing being provided with inlet and outlet port means for permitting a portion of the well-fluid to pass through the open lower chamber of said housing, fluid flow responsive vane means mounted in said open chamber, rate of flow recording means carried in said closed



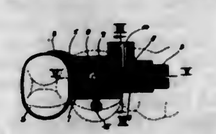
chamber coaxially therewith, rotatable magnetic coupling means for coupling said vane means and recording means through said transverse wall means, whereby an indication proportional to the fluid flow in the well is transmitted to said recording means, and means comprising a cable suspending said flowmeter in the well for applying time signals to said recording means.

2,593,286
PUNCHING AND APPLYING APPARATUS
Armen Fermanian, Rutherford, George W. Soderman, West Englewood, and William J. Workman, North Arlington, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application April 7, 1949, Serial No. 86,074
7 Claims. (Cl. 154—1)



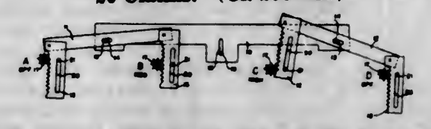
1. An apparatus for punching a part from a material, having an adhesive coating on one surface thereof, and applying the part to an article, the apparatus comprising a die formed to receive the material, means to support an article adjacent the die, a punch movable through the material and the die to the article to punch a part from the material and place it on the article with the adhesive surface adjacent the article, and a heating unit interposed between the die and the article adjacent the path of the punch to heat and thus soften the adhesive coating on the part prior to its application to the article.

2,593,287
ARRANGEMENT FOR HOLDING REMOVABLE DENTAL PROTHESIS APPARATUS IN THE MOUTH
Alfredo Fiorentini, Nice, France
Application January 8, 1948, Serial No. 1,262
In Italy January 4, 1947
Section 1, Public Law 690, August 8, 1946
Patent expires January 4, 1967
6 Claims. (Cl. 32—5)



1. In a locking means for removable dentures, in combination, a capping adapted to fit over a natural tooth; a projection on said capping extending substantially the total height of said capping and having substantially identical transversal cross-sections perpendicular to the height, said cross-sections being restricted near the capping; a locking member adapted to be rigidly secured to a denture, said locking member having a groove of the same transversal cross-section as that of the projection on said capping and being slidingly engaged by said projection, said locking member having a channel extending substantially at right angles to and communicating at one end thereof with said groove, said channel being slightly restricted at said one end near the groove; and a spring-loaded element slidably arranged in said channel adjacent said groove and projecting into the same but retained by the restricted end of said channel, whereby when the locking member is slid in place over said projection, said element will be spring-pressed against said projection, thereby frictionally engaging the same.

2,593,288
MECHANICAL INTERLOCKING MECHANISM FOR SWITCHES
John T. Fisher, Mansfield, Ohio
Application June 17, 1949, Serial No. 99,656
20 Claims. (Cl. 200—50)

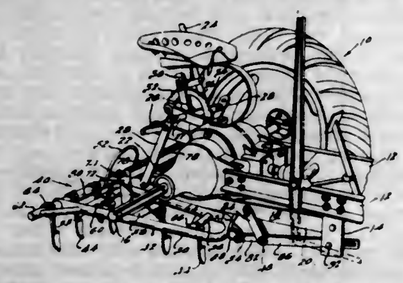


1. An interlocking mechanism for a plurality of rotary load control switches each capable of occupying at least an "on" position and an "off" position, said interlocking mechanism comprising, rotary toothed operators mounted for movement with the switches, pivotally and shiftably mounted means, and members shiftably pivoted on said means and cooperatively and toothingly engaging with said rotary operators, said means and said members cooperating with said operators to allow the switches to be turned from their "off" positions to their "on" positions until the total turning of the switches has reached a predetermined maximum value.

2,593,289
FLOATING CULTIVATOR
David W. Fitzwater, Pontiac, Mich.
Application January 27, 1949, Serial No. 73,102
1 Claim. (Cl. 97—47)

A cultivating implement for a tractor having a frame, front and rear axles mounted on said

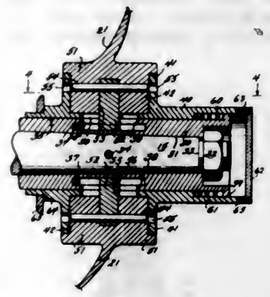
frame, spaced rear wheels mounted on the rear axle, a generally U-shaped draw bar having spaced arms extending forwardly and pivotally connected to brackets depending from the tractor frame forwardly of said rear axle and having a web portion which extends transversely of the tractor rearwardly of said rear axle and is adapted to be connected to equipment to be pulled by said tractor, and means for pivoting said draw bar between and releasably locking it in lowered and raised positions, said implement comprising an implement frame adapted to extend under said axle and between said wheels, a plurality of earth working elements mounted on said frame, a pair of laterally spaced uprights mounted on said implement frame, a supporting member extending transversely of said implement frame and pivotally connected to said uprights, said supporting member being adapted to be secured to said web portion of said draw bar, said uprights being so disposed longitudinally of said implement that said supporting member extends substantially over the center of gravity of said implement when the implement frame is horizontally disposed whereby the force of



gravity acting on said implement when the latter is supported on said member urges the implement toward and tends to maintain it in a horizontal position, and a pair of link means connected to the front end of said implement frame and adapted to be connected to said tractor and to be operative, when said implement is mounted on said tractor and said draw bar is in its lowered position, to prevent pivotal movement of said implement, in a direction to lower the forward portion of the implement, beyond a predetermined limiting position relative to said tractor, each of said link means comprising first, second and third links pivotally interconnected at one end, said first links having their other ends pivotally connected to the front ends of the implement frames, said second links having their other ends adapted to be pivotally connected to said draw bar adjacent the front end of said implement frame, and the other ends of said third links having a slot adapted to permit a pivotal and lost motion connection to said tractor for limiting the relative pivotal movement of said first and second links.

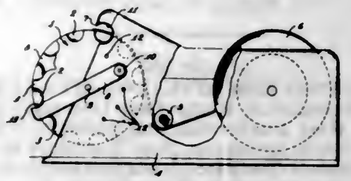
2,593,290
VARIABLE PITCH PROPELLER
Herman Gansert, Syracuse, N. Y.
Application December 20, 1950, Serial No. 201,741
14 Claims. (Cl. 170—160.36)

1. In a propeller pitch changing device of the character described, a drive shaft, an inner sleeve mounted for rotation therewith, an outer sleeve positioned about said inner sleeve for rotation and relative longitudinal movement therewith, a plurality of propeller blades each having a base pivotally mounted on said outer sleeve, means on said blades extending through said outer sleeve to engage the inner sleeve and retain said blades for rotation with said sleeves, an eccentric pin fixed in the base of each blade, and extending through an enlarged aperture in the outer sleeve, recesses in the inner sleeve for engaging said



pins and preventing their movement longitudinally of the inner sleeve when the outer sleeve is moved longitudinally relative to the inner sleeve, and means for controlling the relative movement of the two sleeves.

2,593,291
ADHESIVE TAPE DISPENSER
Serge Garik, New York, N. Y., assignor of one-third to Karol J. Mysels, Los Angeles, Calif., and one-third to Lewis L. Salton, New York, N. Y.
Application April 11, 1946, Serial No. 661,388
4 Claims. (Cl. 271—2.3)

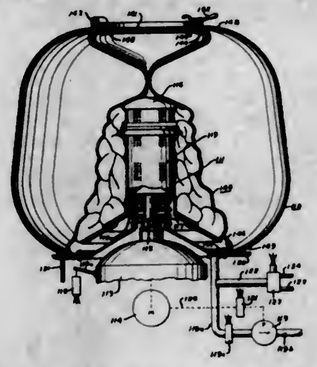


1. A dispenser for pressure sensitive tape comprising in combination: means for receiving a roll of pressure sensitive tape; a driving roller having at least two equally spaced accessible slots extending to its peripheral surface, said roller adapted to receive a length of pressure sensitive tape upon a portion of said peripheral surface and over said slots, the size and position of said slots being at least sufficient to permit the insertion of a finger thereinto underneath said length of pressure sensitive tape; and a stop immediately adjacent to the side of said roller and adapted to limit the motion of a finger inserted into one of said slots and rotating said roller.

2,593,292
WASHING MACHINE
Richard S. Gaugler, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application August 21, 1948, Serial No. 45,476
5 Claims. (Cl. 68—21)

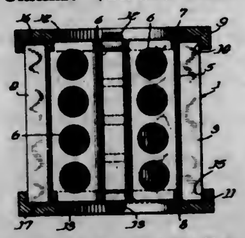
4. In a washing machine; a tub; agitating means for said tub in the central lower portion of said tub; a cover for said tub; a porous diaphragm carried by said cover having one side exposed to the atmosphere outside said tub and its other side exposed to the interior of said tub, said diaphragm being in the form of a bag

with its outer periphery and its center portion secured to said cover to form an annular bellows



surrounding said agitator; and means to create a vacuum in said tub.

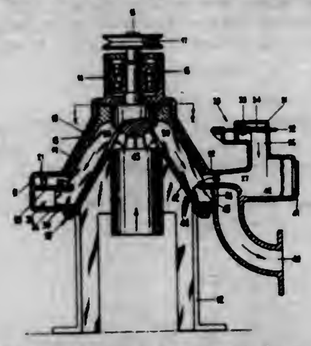
2,593,293
STRAINER
Charles A. Giauque, Berwyn, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application March 4, 1948, Serial No. 12,937
4 Claims. (Cl. 210—169)



1. In a strainer, the combination comprising a centrally positioned spider member with arms having ports therethrough, a strainer element extending annularly around the said spider, the upper and lower end limits of the spider and of the strainer element being defined by a pair of annular members cooperating with end portions of the said spider and the strainer element, the said strainer element consisting of a substantially continuous thin flat strip severally folded transversely of its length, the folds extending substantially vertically and parallel to the central axis of the strainer to provide for flow spaces between the folds, whereby the folds provide for radially extending elongated passages from the outside peripheral limits of the strainer element to the interior substantially between the arms of the said spider member.

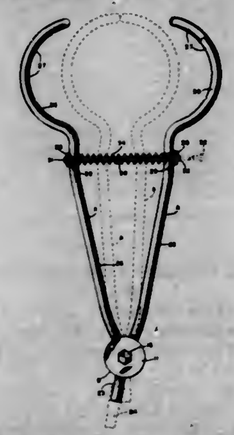
2,593,294
CENTRIFUGAL SEPARATING APPARATUS
Robert J. Goldberg, New York, N. Y., assignor of fifty per cent to Max Goldberg, New York, N. Y.
Application July 21, 1947, Serial No. 762,334
2 Claims. (Cl. 233—27)

1. In a centrifugal separating apparatus having an axial inlet opening and conically directed flat radial blades carried by a circumscribing solid internally conical rotary member, said rotary member being integral with and confining said blades and causing materials to be separated to follow the conical contour of said member, a stationary conical outer casing inclosing said rotary member, and terminating in an enlarged peripheral extension having upper and lower walls, said extension having an internal annular wall between said upper and lower walls forming an upper and a lower discharge chamber, the lower edge of said conical rotary member terminating in spaced-apart relation from said internal annular wall, said upper chamber serving for receiving the discharged heavy material, said blades having flat radial extensions below



said internal annular wall and forming radial discharge outlets therebetween for discharge of light separated material, said flat blades being undercut to permit said internal annular wall to enter thereinto to positively separate said particles prior to leaving said blades, and a stationary conical central member adjacent the inner edges of said blades for confining said light particles during passage through said separating apparatus.

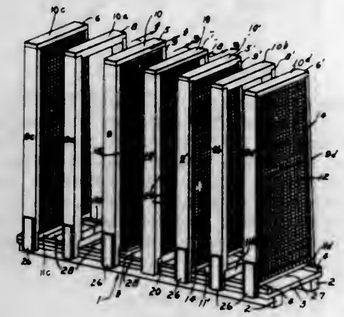
2,593,295
SWEATING TORCH FOR CONDUITS
Walter James Granfield, Minneapolis, Minn.
Application December 7, 1949, Serial No. 131,543
4 Claims. (Cl. 158—99)



1. In a sweating torch for conduits, a pair of tubular arms hinged together at the butts thereof, each arm having an intermediate handle portion and a curved tip portion formed with gas outlets along the concave side thereof, means for feeding gas into said tubular arms, an abutment member on each arm between the handle portion and tip portion thereof, a helical expansion spring interposed between said abutment members and acting yieldingly to swing the arms away from each other and hold them spread apart, a stop rod having connections at its opposite end portions with

said abutment members, at least one of said connections slidably connecting its respective end portion of said rod with its respective abutment, said stop rod serving to limit the spreading of said arms, said stop rod being encircled by said spring and providing a mounting therefor, the handle portions of said arms being adapted to be gripped in the hand of a user and brought toward each other to swing the arms together, said tip portions of said arms being adapted to straddle a conduit when the arms are swung apart and adapted when the arms are swung together to form a ring-like burner encircling the straddled conduit.

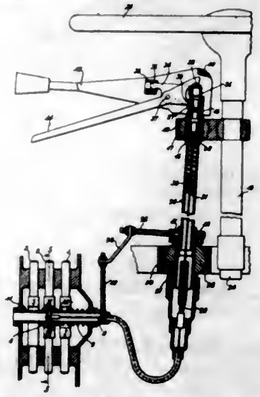
2,593,296
BEEHIVE WITH VENTILATING ENDS
Jesse Wayne Green, Phoenix, Ariz., assignor of one-half to Floyd Reynolds Wigely, Phoenix, Ariz.
Application February 11, 1946, Serial No. 646,829
5 Claims. (Cl. 6—2)



1. A beehive comprising a comb frame, a first set of insulation-carrying frames filled with fibrous, air pervious material and positioned on opposite sides of the comb frame, a set of spacer frames positioned on the outer sides of said insulation-carrying frames, a second set of insulation-carrying frames filled with fibrous, air pervious material and positioned on the outside of said spacer frames, whereby incoming hot or cold air passes first through the second set of insulation frames and then mixes with and is tempered by the air in the spacer frames, and then passes through the air pervious material in the first set of frames into the comb frame.

2,593,297
CONTROL DEVICE FOR CHANGE-SPEED GEARS
Jean Albert Gregoire, Paris, France
Application October 25, 1948, Serial No. 56,297
In France October 29, 1947
4 Claims. (Cl. 74—473)

1. A change speed gear including a change speed lever adapted to assume two operative positions to either side of a neutral position in each of two operative planes corresponding respectively to reverse and first forward on one hand and to second and third on the other, the position of modified third being the same as for second forward, two couples of speed controlling shift rods corresponding respectively to the couples of positions in each of said planes, the shift rods of the couple corresponding to the two first positions lying to the front of the couple providing the two following positions, an intermediary member adapted to be shifted longitudinally and then transversely for engaging selectively either of said shift rods and to shift same into an operative position for obtaining the corresponding speed, a transmission including a stout spring and a sliding part urged rearwardly thereby, said transmission operatively connecting the control lever with the intermediary member for producing said longitudinal and transversal movements of said intermediary member, a further shift rod located beyond the above mentioned couples of shift rods and adapted to be operatively engaged by the intermediary member and to be shifted thereby into a position providing modified third through a further longitudinal movement thereof followed



by a transversal movement, a weaker spring urging said intermediary member into the direction corresponding to engagement with the further shift rod, an auxiliary control member associated with the control lever and adapted to urge the sliding part forwardly against the action of the stout spring for urging the part of the transmission lying beyond said sliding part and therewith the intermediary member forward by a distance equal to that separating the second couple of shift rods from the further shift rod and means urging said auxiliary control member back into its inoperative position.

2,593,298
CRAVAT CLASP
Samuel Grubman and Shirley Slansky, New York, N. Y.
Application November 12, 1948, Serial No. 59,683
2 Claims. (Cl. 24—49)



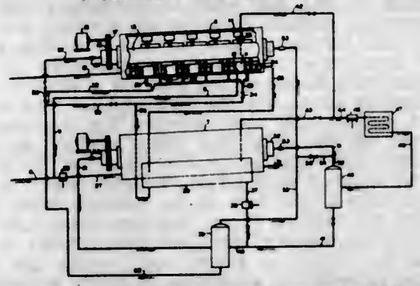
1. In a tie clasp having a base for attachment at one end to the inner wall of the front portion of a four-in-hand necktie and a gripping tongue cut from the material of the base and having its free end directed away from the attached end of the base, means for reducing the flexibility of the tongue to increase its gripping powers, comprising a stiff strip of material extended across the junction of the base and the tongue, and means slidably attaching said strip to the base closely adjacent the junction of the base and the tongue, so that said strip may be moved between operative and inoperative positions with relation to the tongue, said slidable attaching means comprising rivets extending from said base and passing through an elongated slot formed in said strip, said rivets being tubular so that means for attaching the base to the necktie can be passed through said rivets.

2,593,299
PORTABLE IRRIGATING APPARATUS
Irvin Grumbles, San Saba, Tex.
Application January 12, 1950, Serial No. 138,099
3 Claims. (Cl. 61—12)



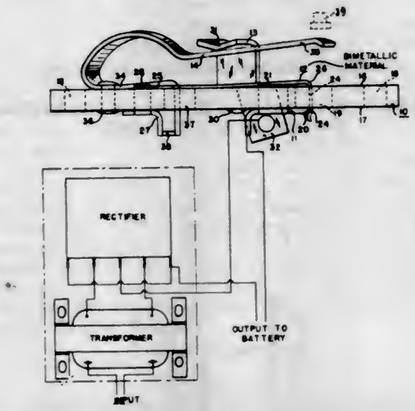
1. In a portable irrigating apparatus, the combination of a conduit adapted to be positioned in a ditch and having a closed end and an open end, a plurality of laterally extending irrigating tubes connected at longitudinally spaced points to said conduit, a rotor mounted in the open end portion of the conduit for delivering water under pressure into the latter, an elongated base adapted for positioning transversely of the stated ditch adjacent the open end of the conduit, means rotatably connecting the conduit to said base, means for rotating said conduit, a motor mounted on said base, and an articulated drive shaft operatively connecting said motor to said rotor.

2,593,300
MULTISTAGE CRYSTALLIZATION PROCESS
Karl H. Hachmuth, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application July 11, 1949, Serial No. 104,048
6 Claims. (Cl. 260—666)



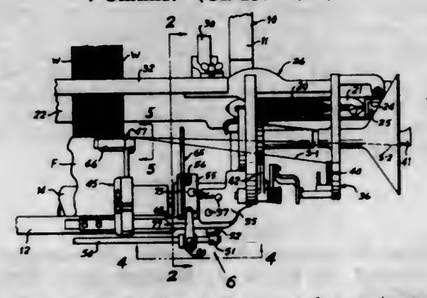
1. The process for separating crystallizable material from a liquid mixture which comprises the steps of maintaining a plurality of serially disposed adjacent bodies of said mixture, maintaining a temperature differential between the ends of said series of bodies, abstracting heat from said mixture to freeze a portion of the crystallizable material along the length of said plurality of serially disposed bodies, removing said frozen material as discrete portions from contact with the remaining liquid, melting the portions of said frozen material and returning the melt of each to said liquid at a point nearer the warmer end of said serially disposed liquid bodies than the point at which it was removed, removing a stream of liquid comprising a lower-melting fraction from the cooler end of said series of bodies, and removing a second stream of liquid comprising a higher-melting fraction from the warmer end of said series of bodies.

2,593,301
THERMAL CUTOUT SWITCH
Emil Arthur Havasi, Cuba, N. Y., assignor to Acme Electric Corporation, a corporation of New York
Application February 1, 1949, Serial No. 73,990
2 Claims. (Cl. 200—116)



1. A thermal cut-out switch comprising, an insulation support member having first and second sides, a current conducting latch terminal provided with a latch edge and fastened on said second side, a current conducting bimetal latch arm fastened on said first side and having a transverse end portion thereof extendible to said second side for current conducting enlatchment over the edge of said latch terminal, a current conducting abutment terminal on said first side and spaced from said latch arm, and a current conducting spring arm fastened on said first side and electrically connected to said latch arm and manually abuttable against said bimetal latch arm and also abuttable against said abutment terminal, said spring arm having spring-like properties urging the same away from said latch arm and into current conducting contact against said abutment terminal thus establishing a series electrical circuit through said arms and said terminals.

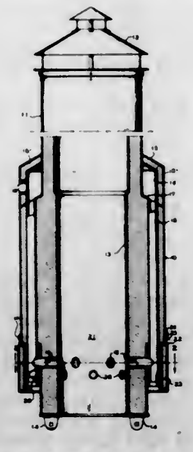
2,593,302
WEFT YARN ENSNARING APPARATUS FOR AUTOMATIC LOOMS
Leonard L. Hawkins, Greenville, S. C.
Application January 2, 1951, Serial No. 203,942
7 Claims. (Cl. 139—256)



1. In a loom having a frame, a lay, a transfer mechanism, a hooked member mounted on the frame and being slidable in the direction of travel of the lay, tension means normally urging the hooked member rearwardly in the loom.

latch means for preventing such rearward movement, cam means on the hooked member engageable by a loom part for elevating the hooked member and means automatically operable upon the transfer mechanism being activated for moving the latch means to unlatching position.

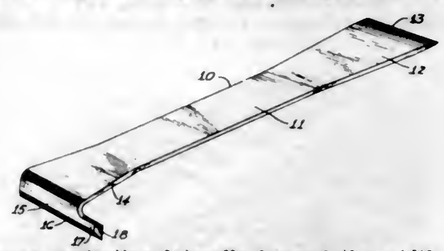
2,593,303
CUPOLA FURNACE
Orville C. Hoover and John A. Boren, Greensboro, N. C.
Application August 21, 1951, Serial No. 242,864
3 Claims. (Cl. 266—30)



3. A cupola furnace comprising a shell, a second shell of reduced diameter having a portion extending downwardly within said first shell in spaced relation thereto and extending upwardly to form a stack, an inwardly extending flange adjacent the upper end of said first shell connected to said second shell, an outwardly extending flange adjacent the lower end of said second shell connected to said first shell whereby said flanges and the portions of said shells therebetween define an annular chamber providing a wind box, a layer of insulation adjacent the outer walls of said wind box, an air inlet to said wind box, a substantially continuous refractory lining on the inner surface of said first shell and extending upwardly into said second shell and below said outwardly extending flange to define a combustion chamber, tuyères extending through said first shell and said lining adjacent the lower end of said furnace and conduits connected to said tuyères and extending upwardly through said lining and said outwardly extending flange into communication with said wind box, whereby air will be heated in said wind box and be maintained heated during flow through said conduits to said tuyères by reason of the heat absorbed by the lining surrounding said conduits.

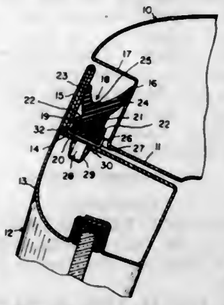
2,593,304
HIVE TOOL
William H. Howard, Wilmington, Ill., assignor of one-half to David J. Billingheimer, Homewood, Ill.
Application January 10, 1947, Serial No. 721,374
8 Claims. (Cl. 6—12)

1. A hive tool comprising a flat shank portion having one end portion disposed at an angle to the plane of the shank to form an integral flange coextensive with the width of the shank, and a coplanar lug portion integral with said



flange projecting laterally beyond the width of said shank portion at one side thereof.

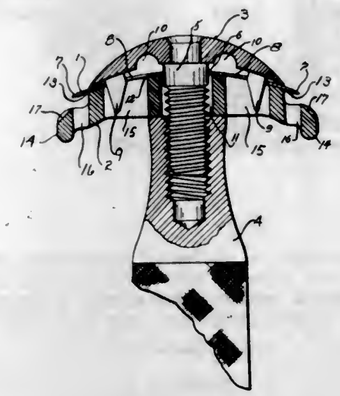
2,593,305
WEATHER STRIP
Gerald G. Hunter, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application February 14, 1949, Serial No. 76,238
5 Claims. (Cl. 296—44)



1. The combination with a vehicle door hinged at one side edge to a frame having a transverse portion defining an opening for the door and having a jamb portion extending from the transverse portion for engagement by an overlapping flange on the door, of a weather seal extending along the top and at least one adjacent side of the door between the overlapping flange on the door and jamb portion on the frame, said weather seal comprising an elongated resilient strip having a base seated on the outer edge of the door at the laterally inner side of the overlapping flange, lips diverging from the base in an outward direction with respect to the door to provide a gutter and having the free edges respectively extending laterally outwardly beyond opposite sides of the base to respectively yieldingly engage the overlapping flange on the door and the jamb portion on the frame in the closed position of the door and being free from connection to either the flange or frame, one of the lips has a width less than the width of the other lip and serves as a reinforcement to minimize spreading of the lips by the stresses resulting from bending the strip around a corner of the door, and means for securing the base of the strip to the transverse portion of the door.

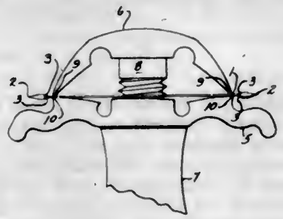
2,593,306
SAFETY RAZOR
Edwin Jacobsen, Altadena, Calif.
Application January 21, 1947, Serial No. 723,355
4 Claims. (Cl. 30—70)

1. In a razor the combination of: a guard member with a laterally convex upper face; a thin flexible blade adapted to be supported on said guard member; marginal overhead members for engaging edge portions of said blade when so supported; a mechanism on said razor for moving said marginal members towards said guard member to cause said overhead members to engage cutting edge portions of said blade to arch the latter and to press said edge portions into engagement with said convex face, said marginal members being yieldably related to said



mechanism whereby said members are spread apart after having pressed said blade edge portions into engagement with said convex face; and interlocking means on said marginal members and said edge portions of said blade whereby said marginal members in spreading apart as aforesaid, transmit positively to said blade a stretching tension in the metallic structure thereof tangential to the arched contour of said blade and along lines normal to the cutting edge portions.

2,593,307
SAFETY RAZOR
Edwin Jacobsen, Altadena, Calif.
Application April 18, 1949, Serial No. 88,155
1 Claim. (Cl. 30—52)

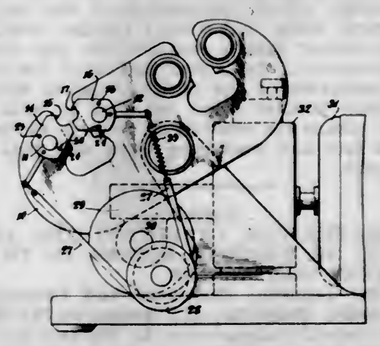


A razor and blade assembly comprising: a blade having a pair of cutting edges along parallel edges, and shoulders adjacent said cutting edges on both upper and lower faces of said blade, a razor guard member on which said blade is adapted to be laid with edge portions of said guard engaging and supporting said blade just inwardly from said shoulders, said guard being of a resilient character and normally springing upwardly with the said edge portions disposed in a plane above the central portion of said guard which connects said edge portions, a resilient arcuate head having wing portions which normally incline downwardly at a substantial angle from the middle connecting portion of said head, means for mounting said head on said guard with said blade resting on said guard edge portions and with said head wing portions engaging said blade at points inwardly from said shoulders, said mounting means being adapted to draw said head downwardly relative to said guard thereby compressing said blade between said guard edge portions and said head wing portions and flexing said guard, said blades, and said head so as to shift said edge portions and said wing portions laterally towards and into contact with said shoulders while arching said guard and said blade transversely and pressurably applying said guard edge portions and said head wing portions outwardly against said blade shoulders to apply tension to said blade and stress the blade in a direction normal to said cutting edges throughout the length of the latter.

2,593,308
TREATING LIQUID EGG MATERIAL
Lloyd B. Jensen, Chicago, and Walter R. Hess, Downers Grove, Ill., assignors, by mesne assignments, to Swift & Company, a corporation of Illinois
No Drawing. Application June 16, 1948, Serial No. 33,433
2 Claims. (Cl. 99—196)

1. In a process of treating liquid egg materials to prolong the storage life thereof by substantially reducing the bacteria count wherein the liquid egg material is frozen and held in the frozen condition until used, the steps comprising thoroughly mixing the liquid egg materials, holding said thoroughly mixed egg materials at a temperature below about 0° F. to rapidly freeze said egg materials, and storing said frozen egg materials at a temperature of about 24° F.

2,593,309
SNAP-RING GAUGE HAVING PIVOTED JAWS
Paul W. Johnson, Bloomfield, Conn., assignor to The Johnson Gage Company, Bloomfield, Conn., a corporation of Connecticut
Application March 8, 1946, Serial No. 652,870
11 Claims. (Cl. 33—178)



1. A gage comprising a frame, a pair of complementary gage members at least one having a gaging portion for engaging a plurality of points around the circumference of a test part,

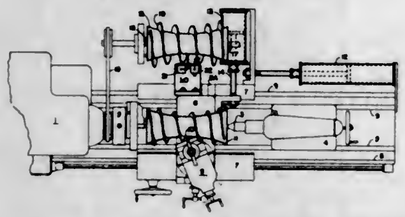
means supporting each gage member at spaced points including pivot means for each gaging member having a gaging portion for engaging a plurality of points around the circumference of a test part so that each gaging portion swings upwardly and away from the other gaging member to open the same for insertion of a test part to be gaged and pivots downwardly and towards the other gage member at least to gaging position between the supporting means, means propelling the gage members upon their respective pivot means in a downward gaging direction for the gaging portions with a substantially uniform pressure at gaging position, and unidirectional operating means to periodically swing each pivoted gage member in the other direction to open position against the action of the propelling means.

2,593,310

MACHINE TOOL CONTROL

Clarence Johnson, Orfordville, Wis., assignor to Bailey Meter Company, a corporation of Delaware

Application November 6, 1946, Serial No. 708,033
2 Claims. (Cl. 82—14)



1. In combination with a pattern controlled lathe having means for relatively moving a tool and workpiece along a first path parallel to the longitudinal axis of the lathe and along a second path at an angle to said first path, means for mounting a pattern for rotation about an axis parallel to the longitudinal axis of the lathe, means for mounting the workpiece for rotation about an axis in spaced parallel relation to the rotational axis of the pattern, and means for rotating the pattern and the workpiece in synchronism: a pattern having a body portion with the shape of a surface of revolution and a generally wormlike outward projection from said body portion, first tracer means continuously scanning the body portion of the pattern for controlling relative movement of the tool and workpiece along said second angular path, and second tracer means continuously and concurrently scanning the lateral surface of the wormlike projection of the pattern that is adjacent the body portion being scanned by said first tracer means for controlling relative movement of the tool and workpiece along said first parallel path.

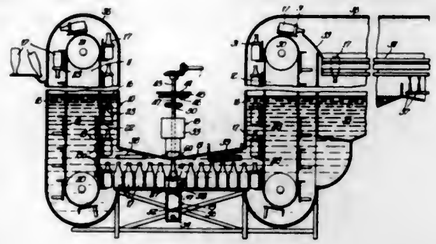
2,593,311

APPARATUS FOR DETECTING THE PRESENCE OF FOREIGN BODIES IN TRANSPARENT CONTAINERS

Paul M. Johnson, Evanston, and Lansing M. Hinrichs, Wilmette, Ill., assignors, by direct and mesne assignments, to Watson D. Harbaugh, Evanston, Ill.

Application April 3, 1948, Serial No. 18,818
6 Claims. (Cl. 88—14)

1. A bottle inspecting apparatus comprising a tank, a liquid having an index of refraction of at least 1.333 contained in the tank, a pair of transparent windows in the walls of the tank, means for conveying bottles one by one between said windows, a photoelectric cell adjacent one



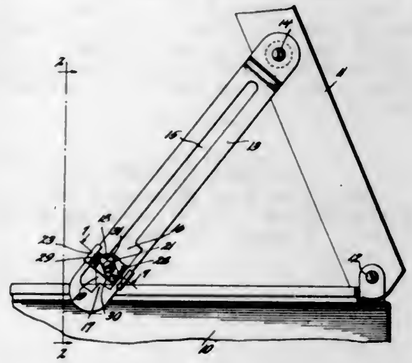
of said windows, a source of undulating energy adjacent the other of said windows, and means for focusing a beam of said energy through the bottles as they pass by and upon said cell.

2,593,312

LID SUPPORT

Jay W. Joseph, Winston-Salem, N. C., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 16, 1948, Serial No. 49,604
8 Claims. (Cl. 217—60)



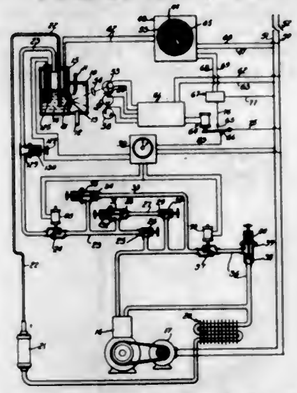
5. In a device for supporting a lid of a cabinet, an arm pivotally secured to the lid having an elongated slot therein, the slot being enlarged near its lower terminus, the enlarged portion of the slot being of such shape as to form two opposed abutments on the arm projecting into the slot, a guide member for said arm, said guide member being pivotally mounted to the cabinet, a toothed rotor rotatably mounted on the cabinet and positioned to operate within the slot, one of said abutments being provided for the purpose of contacting and rotating the rotor to a predetermined position when the lid is lifted, and the second abutment being provided for the purpose of engaging the teeth of the rotor in the predetermined position whereby the rotor is held stationary and the lid is held in an elevated position.

2,593,313

APPARATUS FOR DETECTING WATER VAPOR IN GASES

Clarence W. Kamm and Carl W. Sisco, Toledo, Ohio, assignors to Surface Combustion Corporation, Toledo, Ohio, a corporation of Ohio

Application January 29, 1947, Serial No. 725,020
8 Claims. (Cl. 73—17)



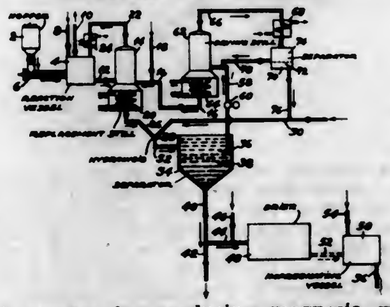
1. In apparatus for determining the dew point of a vapor in a gas, in combination, a reflecting surface exposed to the gas and in heat conductive connection with surroundings having temperatures above the range of dew point temperatures, a refrigeration system for chilling said reflecting surface, a light source for illuminating said surface, a photocell that receives light from said surface for detecting changes in its reflectivity when vapor condenses on said surface, means for measuring and indicating the temperature at which a change in the reflectivity of said surface occurs, an amplifier connected to the photocell, a timer that is connected to the amplifier and that is energized following a change in the reflectivity of said surface due to condensation of vapor on said surface, means for interrupting the refrigeration of said surface to allow it to assume the temperature of its surroundings, said interrupting means being energized through the timer, and the timing period of said timer being larger than the maximum time required to dispel condensed water vapor from the surface.

2,593,314

PROCESS FOR PRODUCING MAGNESIA

Charles N. Kimberlin, Jr., Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

Application March 15, 1949, Serial No. 81,594
10 Claims. (Cl. 23—201)



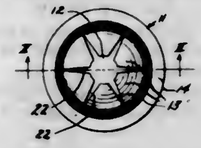
1. A process for producing magnesia which comprises reacting a substantially anhydrous and water soluble lower aliphatic alcohol with magnesium metal to form magnesium alcoholate, treating the resultant magnesium alcoholate with a substantially water insoluble higher aliphatic alcohol, hydrolyzing the resultant substituted magnesium alcoholate with an aqueous medium to form a hydrous magnesia and a separate layer comprising water insoluble alcohol, separating the regenerated water insoluble alcohol from said hydrous magnesia and recovering the hydrous magnesia so formed.

2,593,315

FLOW CONTROL DEVICE

El Roy J. Kraft, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

Application October 31, 1946, Serial No. 706,892
9 Claims. (Cl. 138—45)



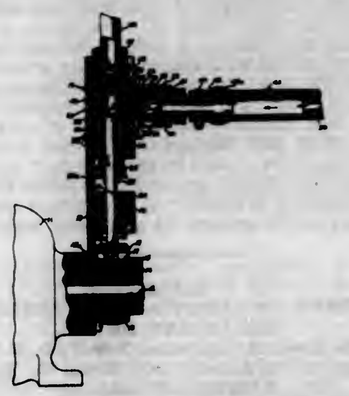
1. A flow control member comprising a thin disk formed from resilient metal having a relatively flat outer ring and having a plurality of flexible tongues extending inwardly therefrom and converging toward their ends, leaving radially extending wedge-shaped sectors therebetween and turning from the plane of said ring in a regular curve in an upstream direction, and the area between said tongues forming a flow passageway closing as the pressure on said tongues increases and flexes them inwardly toward the plane of said ring.

2,593,316

RECIPROCATING PUMP ASSEMBLY

El Roy J. Kraft, Oak Park, Ill., assignor to The Dole Valve Company, Chicago, Ill., a corporation of Illinois

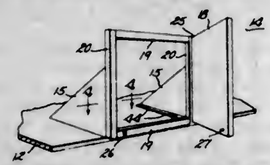
Application December 23, 1946, Serial No. 717,953
1 Claim. (Cl. 103—223)



A reciprocating pump comprising a pump body having an open ended pumping chamber having a cylindrical wall, a fluid inlet leading through said wall into said chamber, a lightweight valve disk assembly including a disk reciprocable in said inlet to check back-flow from the chamber, a piston movable within said chamber and ex-

tending from one open end thereof, said other open end of the chamber providing a fluid outlet, a check valve in said other open end, an outlet fitting anchoring said check valve in said outlet, an eccentric operatively connected with said piston to reciprocably move said piston within said pumping chamber, an inlet fitting anchoring said valve disk assembly in said inlet, and a nipple carried by said inlet fitting, a short elastic tube on said nipple forming a continuation thereof, said tube being resiliently expansible and contractible immediately adjacent the nipple to absorb surges in said inlet when the disk valve closes and to force fluid into said pumping chamber when the disk valve opens, the tube length being insufficient to dissipate the kinetic energy of the surges.

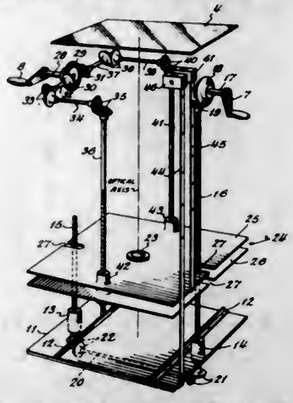
2,593,317
RIGHT ANGLE MOUNTING CABINET FRONT UNIT
Harvey T. Lay, Olympia, Wash., assignor to Western Metalcraft, Inc., Olympia, Wash., a corporation of Washington
Application June 13, 1949, Serial No. 98,750
1 Claim. (Cl. 189—46)



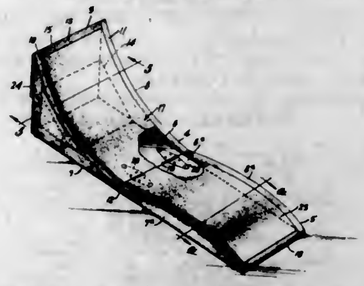
A cabinet front unit for mounting at right angles with respect to a supporting wall, said unit consisting of a sheet metal frame and a door hingedly mounted thereon, said frame being of rectangular shape and consisting of top, bottom and opposite side members welded together at the corners of said frame, each of said members having parallel spaced apart front and rear surface defining portions, said door being of rectangular configuration overlying the front surface of said frame whereby said frame is substantially concealed from view from the front side of said door when closed, said door being of slightly lesser width and height than said frame whereby a slight clearance is provided between adjacent outer edges of said door and said frame around the four sides of said door, a pair of brackets each having a pair of flanges extending at right angles with respect to the general plane of said brackets, the planes of said flanges further extending at right angles with respect to each other, and means securing a pair of corresponding ones of said flanges to the rear surface defining portions of said frame on a pair of opposite sides of said frame, and with the other flanges of said brackets extending in a common plane and adapted to be secured to a cabinet wall.

2,593,318
PHOTO AND PHOTO-TRANSPARENCY ENLARGING DEVICE
Helmuth A. Lehmann, New York, N. Y.
Application June 4, 1949, Serial No. 97,176
1 Claim. (Cl. 88—24)

A photo-enlarger comprising a vertically extending, closed cabinet having an image plate in the top thereof, a movably mounted object-holding platen within said cabinet, a movably mounted opaque lens support, a lens mounted therein, said lens support comprising a pair of plates extending laterally substantially across said cabinet in relatively spaced relation and between said image plate and platen to block the passage of light around said lens, the side edges of the plates of the lens support being slightly spaced from the cabinet walls, a light source between said lens support and platen, a pair of vertically extending screw rods disposed within and respectively adjacent a first pair of opposite sides of said cabinet and cooperating screw threaded parts on opposite sides of said lens support, a second pair of vertically extending screw rods disposed within said cabinet and respectively adjacent the remaining pair of opposite sides of said cabinet, cooperating screw-threaded parts on opposite sides of said platen, crank members disposed exteriorly of said cabinet, miter gears and shafting connecting said cranks respectively with said pairs of screw rods whereby separate adjustments of said lens support and platen along the optical axis of said lens may be effected, a first indicator means for providing indications of the spacing of said lens support relative to said image plate and a second indicating means for providing indications of the spacing of said platen relative to said image plate.

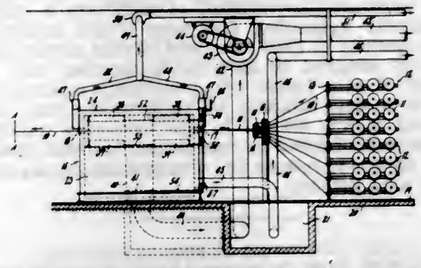


2,593,319
FOLDABLE FURNITURE UNIT
Benjamin Levitin, James G. Brown, Irving W. Peeples, and Mary B. Peeples, Washington, D. C.
Application May 4, 1950, Serial No. 159,964
4 Claims. (Cl. 5—337)



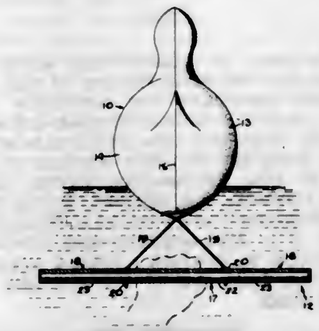
1. A foldable furniture unit having the external appearance of a geometrical solid, said unit including two cushion sections interconnected at one end, said cushions being disposed with a face of one cushion confronting a face of the other when the unit is folded, and with one cushion disposed in longitudinal alignment with the other when the unit is unfolded for supporting a body in a reclining position, the face of said one cushion being concave and the face of said other cushion being convex and complemental thereto.

2,593,320
APPARATUS FOR HEAT-TREATING NYLON YARN OR CORD
Arthur P. Lewis, Fairhaven, Mass., and Charles F. Fisk, Clifton, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 7, 1950, Serial No. 172,464
13 Claims. (Cl. 139—36)



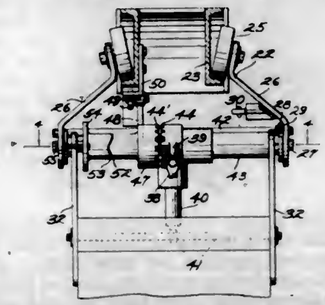
1. In combination, a loom for weaving a fabric formed of coarse nylon warp strands and widely spaced weft strands, an oven adjacent to the loom for heating the nylon warp strands sufficiently to stabilize them against subsequent heat shrinkage as they approach the weaving position, and means controlled by the loom and operable when the loom stops to reduce quickly the temperature of the warp strands in the oven.

2,593,321
SWIMMING APPLIANCE
Edward C. Lindgren, Maple Park, Ill., assignor of one-half to Charles F. Dayton, De Kalb, Ill.
Application May 8, 1950, Serial No. 160,649
3 Claims. (Cl. 9—17)



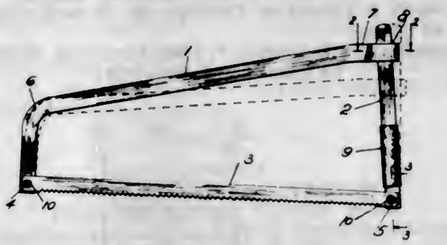
1. A swimming appliance comprising, in combination, a buoyant body, a rigid elongated handle bar, a spacer member encircling the center of said bar and extending along the latter far enough to receive a swimmer's hand, two flexible flaps suspended from the center portion of the bottom of said body and diverging downwardly away from the latter, said flaps having eyes therein to receive opposite end portions of said bar, and coverings on the end portions of said bar to hold said flaps against the adjacent ends of said spacer member, the end portions of said bar beyond said spacer member being long enough to receive and support the hands of a swimmer.

2,593,322
CARRIAGE AND BUCKET FOR INCLINABLE BOOMS
Rudolph F. Lindow, Wauwatosa, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 2, 1946, Serial No. 666,659
5 Claims. (Cl. 214—59)



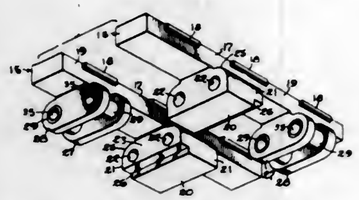
3. A carriage and bucket for an inclinable boom comprising means for supporting the bucket on the carriage enabling the bucket to be adjusted whereby it may hang vertically despite the inclination of the boom, said bucket having a bottom door and mechanism for opening the same, a trip mounted on the boom, tripping mechanism mounted on the carriage engageable with the trip to cause movement thereof, means responsive to movement of said tripping mechanism to cause engagement of the tripping mechanism with the door operating mechanism, and means maintaining disengagement of said mechanisms when the trip is not engaged whereby the bucket may be adjusted relative to the carriage without disturbing the relation of the tripping mechanism to the boom trip.

2,593,323
COLLAPSIBLE SAW FRAME
Herman Anker Magnussen and Erling Johansen, Kristiansand, Norway, assignors to Osmund Stray, Forest Hills, N. Y.
Application February 19, 1948, Serial No. 9,376
In Norway February 24, 1947
2 Claims. (Cl. 145—33)



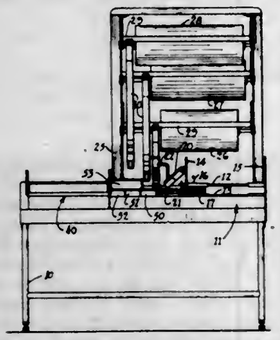
1. A collapsible saw frame comprising a one piece frame member having blade holding means at one end and an eye at the opposite end, an arm having adjacent to one end a rectilinear portion slideable in said eye, and other blade holding means at the opposite end of said arm, said blade holding means being adapted to hold a saw blade between them, said frame member being so constructed and arranged that with a saw blade held between said blade holding means a perpendicular dropped from said first named blade holding means onto said arm strikes said arm between the portion of said arm disposed in said eye and said other blade holding means.

2,593,324
CONVEYER CHAIN
Theodore C. Mann, Beloit, Wis., assignor to Ekstrom-Carlson & Co., Rockford, Ill., a corporation of Illinois
Application March 25, 1949, Serial No. 83,455
7 Claims. (Cl. 198—195)



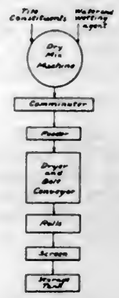
1. A link for a feed chain comprising an elongated flat rectangular bar providing a generally flat work supporting surface on one side, a rectangular block wider than said bar and projecting rigidly from the other side of the bar with two of its ends projecting equidistantly beyond opposite side edges of the bar and having longitudinal parallel holes disposed beneath the bar and paralleling the latter, said block being offset longitudinally from the longitudinal center of said bar toward one end of the latter and having parallel end surfaces one of which is disposed adjacent said center, the transverse edge of said block adjacent said bar center being undercut throughout its length to provide a guide surface paralleling said end surfaces, and a flat lug rigid with and extending transversely of said bar adjacent the other end thereof with the opposite ends of the lug projecting equidistantly from said opposite side edges and formed with holes alined with said block holes, the length of said block being substantially equal to the spacing of said lug from the block whereby to permit the lug and blocks of adjacent links to interfit with each other when the bars of such links are disposed side by side but in reversed relation.

2,593,325
POULTRY PACKING TABLE
Ray V. Mathews, Ottumwa, Iowa, assignor to Swift & Company, Chicago, Ill., a corporation of Illinois
Application December 7, 1948, Serial No. 63,999
2 Claims. (Cl. 226—129)



2. In a device for use in the packing of poultry into suitable shipping containers from the bins into which the poultry is placed during the grading and washing operation, wherein a table member is so positioned and arranged as to support at one end and partly depressed within the surface thereof a forwardly-inclined poultry bin, and at the other end thereof means for holding a plurality of paper rolls disposed vertically above said table, the combination with said table of a container holding means affixed to said table adjacent to and forwardly of said paper holding means, said container holding means comprising a pair of laterally extending supporting bars fixedly secured to said table, the rearmost bar being at a substantially higher elevation than the foremost bar, ratchet means fixedly secured to said table member at a point to one side of and substantially midway of said bars, a pair of vertically extending clamping plates extending transversely of said bars, one of said plates being fixedly secured to said table member and the other of said plates being movably mounted on guide means adapted to slide along said bars, detent means affixed to said movably mounted plate and adapted to engage said ratchet means, and means to release the detent from engagement with said ratchet.

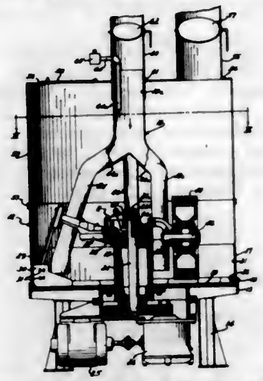
2,593,326
PROCESS FOR CONDITIONING AND GRANULATING FINELY DIVIDED MATERIALS
James I. McAskill, Kingston, Ontario, Canada
Application July 22, 1949, Serial No. 106,154
7 Claims. (Cl. 241—17)



1. A process for conditioning finely divided materials for the manufacture of tile and the like which comprises the successive steps of forming a mixture of finely divided dry materials comprising clays and non-plastic substances and water to bring the moisture content to substantially 9 to 15%, thoroughly stirring the moist mixture, crushing the mixture, drying the mixture until the moisture content is reduced to substantially 6 to 8%, crushing and screening the dried mixture to produce a graded granular aggregate, the final size of the granules not exceeding 8 mesh.

2,593,327
SAND COOLING DEVICE
Robert L. McIlvaine, Glencoe, Ill., assignor, by mesne assignments, to Herbert S. Simpson, trustee, Evanston, Ill.
Application November 3, 1947, Serial No. 783,660
6 Claims. (Cl. 22—89)

1. In combination in a device for cooling material, a chamber for receiving the material, a drive shaft centrally disposed in said chamber, mulling wheels rotatably mounted on said drive shaft, plowing means mounted on said drive shaft in spaced angular relation to said mulling wheels, a duct mounted on said drive shaft for rotation therewith, said duct having a plurality of discharge outlets disposed immediately behind



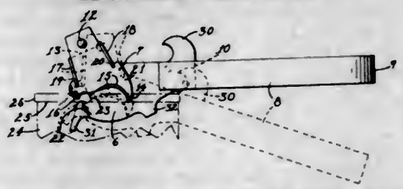
said plowing means, and means for delivering air and water to said duct.

2,593,328
PERFORATED MULTIPLE PLY BAG
John W. Meaker, New York, N. Y.
Application July 13, 1948, Serial No. 38,525
4 Claims. (Cl. 229—55)



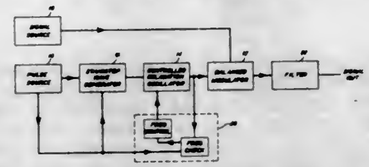
4. In a bag consisting of a plurality of plies forming a body portion of the bag, the combination of a pair of plies of electrically perforatable sheet material, each of said plies having substantial smooth opposing surfaces and a plurality of electrical perforations distributed throughout the surface areas thereof, and a ply of electrically perforatable sheet material having crinkled surfaces interposed between the smooth surfaces of the first-mentioned pair of plies and a plurality of electrical perforations distributed throughout the surface area thereof, said crinkled surfaces contacting with the smooth surfaces of the first-mentioned plies and defining passageways communicating with perforations in the pair of plies and in the crinkled surface ply.

2,593,329
CAN OPENER
Arthur W. Miller, Milwaukee, Wis.
Application November 4, 1947, Serial No. 783,960
11 Claims. (Cl. 30—22)



1. A can opener comprising a lever having a lower jaw portion on one end thereof adapted slidably to engage the bottom edge of the bead on the top of a can to act as a guide and also a fulcrum for the lever, a downwardly directed cutting blade carried on the jaw end of said lever and having an upper jaw on its front portion spaced above the aforesaid lower jaw adapted slidably to engage the top of the can on the inner side of the bead to act as a guide, a piercing point being provided on the rear portion of said blade, said jaws being substantially in coplanar relation, said blade being of flexible resilient material and flexible laterally relative to said lever in so far as its lower portion which includes said upper jaw and piercing point is concerned, and means on said lever for positively limiting the flexing of said blade laterally relative to said lever.

2,593,330
VARIABLE FREQUENCY RELAXATION OSCILLATOR
Milton E. Mohr, New Providence, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 2, 1949, Serial No. 96,706
9 Claims. (Cl. 250—36)



1. A relaxation oscillator comprising a plurality of vacuum tubes each of which has at least a cathode, an anode and a control electrode, anode-cathode and control electrode-cathode circuits therefor, a source of potential the positive terminal of which is resistively connected to the anodes of a first and second of said tubes and which is directly connected to the anodes of a third and fourth of said tubes, the negative terminal of said source being directly connected to the cathodes of said first and second tubes and being resistively connected to the cathodes of said third and fourth tubes, conductive connections between the control electrode and cathode of said first and second tubes, conductive connections between the anode and control electrodes of said first and third tubes and said second and fourth tubes, respectively, and capacitive couplings between the control electrode and cathode of said second and third tubes and said first and fourth tubes, respectively.

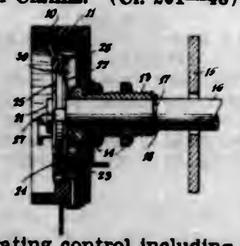
2,593,331
ROTATABLE DISPLAY SIGN
Richard N. Morton, Yakima, Wash.
Application December 9, 1949, Serial No. 132,016
1 Claim. (Cl. 40—77)



A sign, comprising a semi-cylindrical casing open at the bottom, a horizontally disposed shaft mounted in the casing, a hollow hub supported on the horizontal shaft, the hub having a series of slots in its periphery, radial hollow transparent outwardly tapering signs mounted on the periphery of the hollow hub in communication with the slots, a hollow reflector mounted on and enclosing the shaft within the hollow hub, the

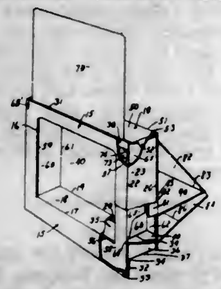
hollow reflector being open at its bottom and extending to the inner surface of the hollow hub, a source of light within the hollow reflector below the shaft and in vertical alignment with the open bottom of said reflector, and means for rotating the hub, whereby when the hub is rotated and a hollow sign reaches a vertical position below the horizontal shaft and its open inner end registers with the bottom open end of the hollow reflector, the lamp will light up said sign.

2,593,332
OPERATING CONTROL
George J. Mucher, Rochester, N. H., assignor to Clarostat Mfg. Co. Inc., Dover, N. H., a corporation of New York
Application November 23, 1949, Serial No. 129,102
4 Claims. (Cl. 201—48)



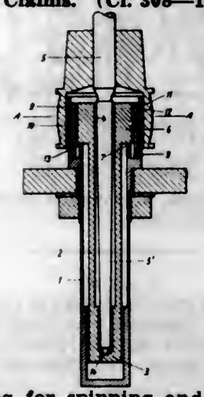
1. An operating control including in combination means providing a current-conducting area, a contact member movably mounted to engage and pass over said area, a rotatable shaft of dielectric material, an extension forming a part of said shaft, said extension being of non-circular outline and passing through a correspondingly shaped opening in said member, said shaft being formed with a bore extending through to the face of said extension and a headed screw having its shank extending within said bore, its head overlying said member to retain the latter.

2,593,333
DISPLAY CONTAINER
Harold L. Myers, Morristown, N. J.
Application August 2, 1947, Serial No. 765,769
2 Claims. (Cl. 206—45.31)



1. An upright display container with two front panels, each of which has a substantially rectangular display opening, said rectangular display openings having substantially the same size, shape, and position, the outer panel having a foldably connected lower flap bent inwardly to frame the display opening and to form the floor of an inner display compartment, and the inner panel having two foldably connected flaps bent inwardly to frame the display opening and to form the sides of said display compartment, the areas at the side edges of the double display opening between said outer panel and said inner panel forming guideways, wherein is mounted a slidable cover having guiding-and-arresting tabs extending laterally outward from the outer ends of its downward edge beyond the side edges of said cover and extending into said guideways.

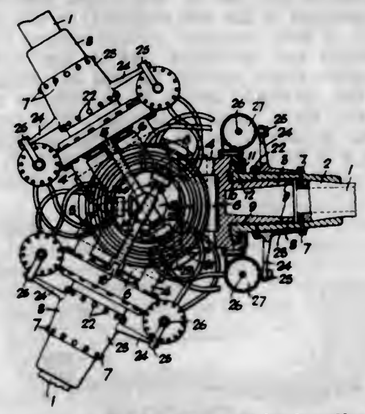
2,593,334
BEARING STRUCTURE FOR SPINNING AND TWISTING SPINDLES
Werner Naegeli, Winterthur, Switzerland, assignor to Actiengesellschaft Joh. Jacob Rieter & Cie., Winterthur, Switzerland
Application August 29, 1947, Serial No. 771,357
In Switzerland September 23, 1946
4 Claims. (Cl. 308—152)



1. A bearing for spinning and twisting spindles, comprising a spindle holder forming a housing at its upper end, said housing having an outer cylindrical wall extending coaxially with the spindle axis, and an inner coaxial cylindrical wall of shorter height than the outer wall, said two walls forming an annular chamber between them, a spindle sleeve in said holder and provided with a central bore into which the spindle extends in operation, the lower portion of said bore being of a size that only a small amount of play is present between the spindle and the lower portion of said sleeve, a collar formed on the upper end of the spindle sleeve, said collar being lodged within said housing and supported on the upper edge of said inner cylindrical wall of the housing, and a multiple fluid flow damping means interposed between said collar and the outer cylindrical wall of said housing and supported on the bottom of said annular chamber between the inner and outer wall of the housing.

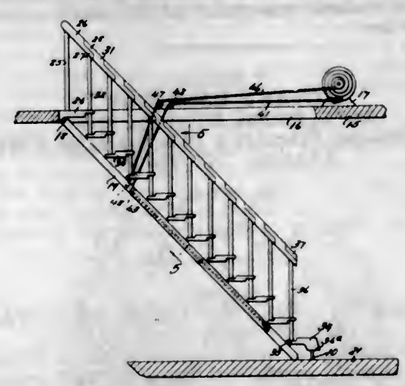
2,593,335
PITCH CONTROLLING MEANS FOR ROTOR BLADES OF HELICOPTERS
John Sidney Neale, Manchester, England, assignor to Pennine Aircraft Limited, Manchester, England, a British company
Application April 7, 1948, Serial No. 19,473
In Great Britain December 22, 1947
4 Claims. (Cl. 170—160.25)

1. In a helicopter rotor, a shaft, a head on the shaft, blades radiating out from the head, a constant volume hydraulically operated blade pitch control system embodying hydraulically actuated devices differentially connected in the hydraulic system and having driving connections to and from the blades, supports for the blade roots, means pivotally connecting said supports to said head about blade flapping axes normal to the shaft axis and between the shaft and the blade roots, a journal bearing member with each support receiving the root of the associated blade, levers connecting the blade roots to said devices by which said devices are operated directly off the blades by the turning of the blades about their root axes due to aerodynamic forces to effect cyclical pitch change of the blades via said differential connection of said devices, remote control driving means additional and common to said devices incorporated in said hydraulic system for effecting via said devices collective actuation of said devices to obtain simultaneous



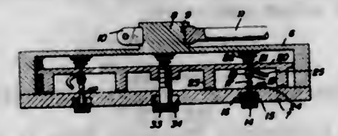
pitch control of the blades, said hydraulically actuated devices being located outside the said flapping axes relative to the shaft axis, and damping means connected to said supports yieldingly opposing the flapping action of the blades and tending to maintain the blade root axes in normal operative position.

2,593,336
HINGED AND COLLAPSIBLE STAIRWAY
Lawrence J. Nixon, Pittsburgh, Pa.
Application July 3, 1947, Serial No. 758,784
6 Claims. (Cl. 228—50)



1. A collapsible stairway adapted to be positioned in an opening through a floor comprising a stationary step having a tongue extended from the forward edge and a recess in the under surface of the rear edge mounted in the floor and positioned in one end of the said opening, vertically positioned balusters carried by the said stationary step, a plurality of slidably connected intermediate steps also having over-lapping tongues on the forward edges and recesses in the upper surfaces of the rear edges which provide ledges to receive the tongues of adjoining steps, a hand-rail having a plurality of sections with over-lapping tongues on the rear edges and recesses in the upper surfaces of the forward edges which provide ledges to receive the tongues of adjoining sections, balusters positioned on the ledges at the rear of the intermediate steps and extended through openings in tongues of upwardly disposed steps and on the upper ends of which the sections of the hand-rail are carried whereby the balusters connect the sections of the hand-rail to the steps providing intermediate units of the stairway, an upper hand-rail section carried by said vertically positioned baluster on the stationary step and having a recess in the upper surface of the forward edge for receiving the tongue of the upper intermediate section of the hand-rail, and a relatively extensible stringer pivotally mounted in the recess in the under surface of the upper stationary step, extended below the intermediate steps and positioned to be engaged by the rear edges of said intermediate steps for supporting the steps with the stairway extended downwardly for use.

2,593,337
VEHICLE SIGNAL
Hugh B. O'Brien, Beckley, W. Va.
Application October 24, 1949, Serial No. 123,181
1 Claim. (Cl. 200—59)

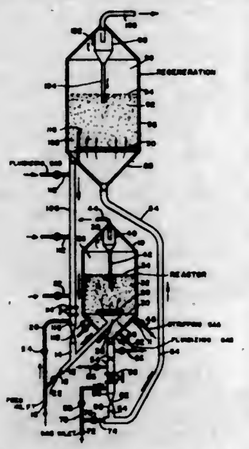


A vehicle signalling device comprising a switch housing including a back section and a cover plate secured thereto, an oblong movable panel in the housing behind the cover plate, coil springs in the housing adjacent the ends and sides of the panel holding the panel in a forward position in the housing, stationary contacts on the front surface of the panel in alignment with said springs, fasteners securing the stationary contacts to the front surface of said panel and also securing said springs to said panel, movable contacts on the inner surface of the cover plate, push buttons on the outer surface of the cover plate moving the movable contacts into engagement with the stationary contacts, and a master push button slidable in the cover plate and rigidly connected to the panel at the center thereof for moving the panel rearwardly to release the contacts and guiding said panel in its rearward movement.

2,593,338
CONTACTING SOLID PARTICLES WITH GASEOUS FLUIDS
Henry J. Ogorzaly, Summit, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 28, 1947, Serial No. 724,760
3 Claims. (Cl. 23—1)

2. In a process wherein powdered contact material is maintained in a zone in a dense fluidized condition and is withdrawn from said zone into a standpipe to form a fluidized dense column producing hydrostatic pressure at its base and the rate of withdrawal of powdered material from the base of said column is controlled by a valve across which a decrease in pressure in the direction of solids flow occurs during withdrawal of said powdered material and the powdered material is then passed as a confined stream to a second zone, the improvement which comprises passing the powdered material through a constriction in the confined stream leaving said

valve, introducing a gaseous stream between said constriction and said valve and proportioning the

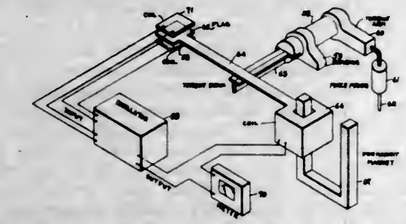


gaseous fluid stream to control the pressure differential across said valve.

2,593,339
ELECTRONIC DISPLACEMENT MEASURING MEANS

Hans J. Ostermann, Westport, Arno G. K. Wilkens, Shelton, and Charles B. Bryan, Meriden, Conn., assignors to Manning, Maxwell & Moore, Inc., Bridgeport, Conn., a corporation of New Jersey

Application September 14, 1944, Serial No. 554,128
6 Claims. (Cl. 73—228)



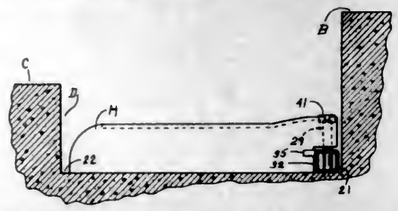
1. In a control system, the combination including means having a planar control element displaceable in an amount proportional to the deviation of a variable from a preset condition, a vacuum tube oscillator having a planar grid circuit inductor, movement of said control element in a line perpendicular to the plane of said inductor varying the output current of said oscillator, an output circuit including means energized by the oscillator output current for applying a force in opposition to the displacement of said means proportional to said output current, and a work circuit energized by said output current.

2,593,340
BARN GUTTER CLEANER

Harry O. Petraske, Fort Atkinson, Wis., assignor to James Manufacturing Company, Fort Atkinson, Wis., a company of Wisconsin

Application August 26, 1949, Serial No. 112,441
1 Claim. (Cl. 198—224)

A barn gutter cleaner of the character described comprising in combination, a gutter having bottom and side walls adapted for the reception of litter, a bar positioned on the bottom of said gutter and in one corner thereof, blades having one end vertically hinged on said bar and in spaced relation, a two stroke hydraulic ram adapted to provide means for reciprocating said bar a distance considerably greater than the distance between hinges, said hinges comprising openings in the end of the blades and vertical posts secured to the bar adapted for the free reception of said openings having means whereby the blades will yieldingly rest on the bottom of the gutter, stops secured to said bar adapted to limit the rearward swing of the blades to substantially right angle to the bar, whereby when the bar is moved to its rearmost position, the blades will be adjacent a cleared portion of the gutter, and when the bar moves forward, the

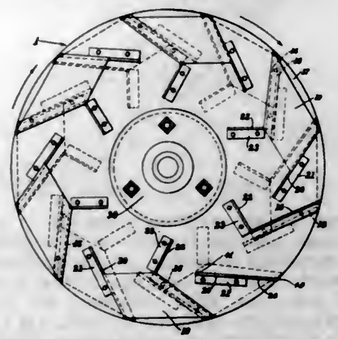


blades will automatically swing outward to a position for engaging the pile of litter by-passed during the rearward movement of the bar, the upper end of said opening being enlarged forming an offset, a free washer on said post adapted to lay on said offset, a hole in the top of said posts having a pin, slots through the upper end of said offset, whereby the pin may be inserted into said opening, an inverted cup-shaped cap adapted to be snugly positioned in the offset opening and extend below the bottom of said slots, to thereby hold the pin in position and prevent litter and dirt from getting into said hinge, said pins being positioned to provide a limited vertical movement of the blade relative to the bar.

2,593,341
ROTARY HAND HOE

Ray L. Phipps, Hingham, Mass.

Application February 4, 1948, Serial No. 6,202
3 Claims. (Cl. 97—52)



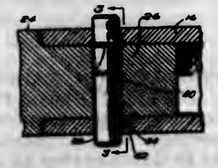
1. A rotary hand hoe comprising a frame adapted to be propelled manually, a freely rotatable cultivator element mounted therein and having a rolling motion over the ground to be tilled as the frame is moved forward, said cultivator element having an annular blade-supporting flange occupying a plane at right angles to its axis of rotation, a plurality of soil-loosening blades carried by said flange, each blade extending upwardly from said flange and having substantially

the same width from its leading edge to its trailing edge and also occupying a plane parallel to the axis of rotation of the cultivator element with its leading edge located substantially at the periphery of the flange and extending substantially parallel to said axis of rotation, each blade also extending backwardly from its leading edge at an acute angle to a radial line through said edge, and means for bracing each blade comprising a side member rigid with said blade at its outer edge and extending substantially parallel with said flange and a brace member connecting said side member with the flange said blades having such relation to the direction of rotation of the cultivator element as the frame is moved forward that the rotative movement of the cultivator element brings each blade into engagement with the ground in a substantially horizontal position and then tilts the blade forwardly and simultaneously thrusts it into the ground and continunes its tilting movement while it is in the ground till it approaches a vertical position at which time the blade is withdrawn from the ground.

2,593,342
COUPLING FOR JACK ATTACHMENTS AND EXTENSIONS

Thomas M. Porter, Brookline, Mass., assignor to H. K. Porter, Inc., Somerville, Mass., a corporation of Massachusetts

Application December 22, 1949, Serial No. 134,466
4 Claims. (Cl. 287—119)

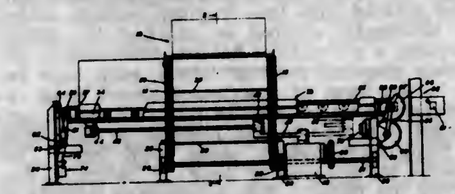


2. A coupling for use in connecting selectively assembled units to provide a linearly extended member through which thrust or tension is transmitted comprising a socket element, a cooperating male element fitting therein, and a transverse locking pin passing through the same in their assembled position, the inner periphery of the socket element having a circular groove, a spring ring in the groove normally positioned in the path of the locking pin, the pin extending across the ring and having at least one groove into which a portion of the ring will project to retain the pin.

2,593,343
APPARATUS FOR CONVEYING, DIVIDING, AND PILING SHEET MATERIAL

Vincent A. Rayburn and Duer C. Robson, Baltimore, Md., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application March 12, 1947, Serial No. 734,040
15 Claims. (Cl. 214—6)

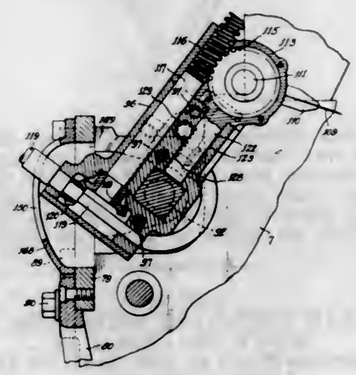


1. In a material piling apparatus, a receiving table having a plurality of different and spaced apart loading positions, means for dropping each successive piece of material onto the receiving table at a different loading position and at a regular predetermined interval, and means for reciprocating the receiving table at a predetermined rate so that alternate material will be received and stacked in a plurality of piles on the receiving table.

2,593,344
DOCTOR BLADE MECHANISM

Ralph R. Richardson and William H. Edmondson, Chicago, Ill., assignors to United Biscuit Company, a corporation of Delaware

Original application August 20, 1945, Serial No. 611,533. Divided and this application March 5, 1947, Serial No. 732,558
2 Claims. (Cl. 101—157)



2. A printing press having a printing roll and a doctor blade acting on said printing roll to regulate the depth of ink carried by said roll, a doctor blade carrying member, a doctor blade shaft rotatably mounting said doctor blade on a portion of said carrying member, a second shaft spaced from said doctor blade shaft and pivotally supporting said carrying member, said doctor blade being thereby mounted so as to be selectively adjustable about the axes of both of said shafts into selected doctoring relation to said printing roll, means mounting said doctor blade shaft on said carrying member for adjustment toward and from said second shaft, and means for effecting each of said adjustments independently of the other.

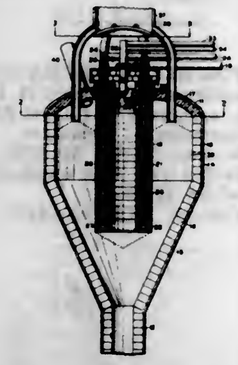
2,593,345
PEBBLE HEATING CHAMBER

Sam P. Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application July 29, 1948, Serial No. 39,709
6 Claims. (Cl. 263—19)

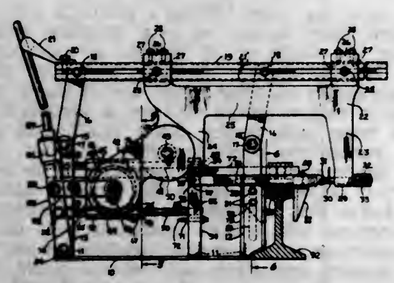
1. An apparatus for imparting heat to material, which comprises a vertical metal shell, a top member, an axially positioned heat-generating chamber constructed of burner tile supported by a bottom ring of hard-burned abrasion-resistant brick, vertical hollow members supporting said tile and said brick and enclosed within same and through which may be passed cooling material, means for supporting said vertical hollow members from the top of said shell, said chamber extending downwardly through said top member and terminating in a freely open lower end, a ceramic brick lining for said shell, said chamber

and said shell forming an annular space for containing material to be heated, a plurality of inlet means for introducing said material into the top of said annular space, outlet means for said heated material in said bottom member, means for causing flow of hot gases through said heat-



generating chamber and out said freely open end thereof into said annular space, and gas outlet means leading from the top of said shell whereby said hot gases passing upwardly through said annular space to heat said material therein and thence into said gas oulet means are exhausted.

2,593,346
SAW OPERATING MECHANISM
Willis E. Roe, Chicago, Ill.
Application March 29, 1949, Serial No. 84,098
9 Claims. (Cl. 29—73)



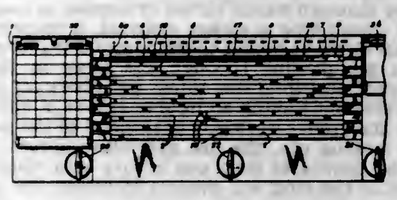
1. A rail saw comprising a base plate, spaced supporting brackets on said plate, a carriage bar extending above and in parallel relation on all planes within the scope of vertical travel with respect to said base plate, link connections between said brackets and said carriage bar whereby said carriage bar may be moved relative to said base plate, a carriage frame, means providing slidable connection between the carriage frame and the carriage bar, a saw blade carried by said frame, an intermediate bracket carried by said base plate in parallel spaced relation with respect to said first-named brackets, a bearing block, guide rods carried between the intermediate bracket and one of said first-named brackets and having operative slidable connection with said bearing block, a link connection between said bearing block and said carriage frame, a handle bearing socket pivotally connected to said one of said brackets, a link connection between said handle and said bearing block for reciprocating said bearing block relative to said guide rods and said frame relative to said carriage bar.

2,593,347
TRICYCLE DRIVE MECHANISM AND FRAME THEREFOR
William C. Roe and Robert G. Nightingale, Elyria, Ohio, assignors to The Colson Corporation, Elyria, Ohio, a corporation of Ohio
Application July 25, 1949, Serial No. 106,556
18 Claims. (Cl. 280—261)



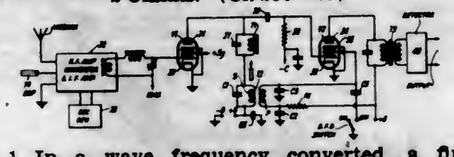
2. In a tricycle the combination of a backbone having a recess in the bottom of a portion thereof, a crank mounted below said portion, a sprocket secured to said crank and partially disposed in said recess, a housing rotatably supporting said crank and said sprocket, and a saddle overlying said portion of the backbone and supporting said housing.

2,593,348
CURRENT PRODUCTION, SALES, INVENTORY, OR LIKE INDICATOR
George Percival Sanderson, London, England
Application December 28, 1948, Serial No. 67,687
In Great Britain October 16, 1947
12 Claims. (Cl. 116—135)



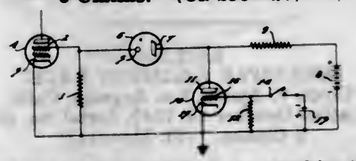
1. An indicator comprising a casing having at least one slot-like sight window, rollers journalled in said casing adjacent the ends of said window, a fixed scale on said casing adjacent said window and longitudinally thereof, a plurality of individually linearly movable and individually identified endless tapes trained around said rollers to be observable through said window and movable longitudinally thereof to give in conjunction with the scale an indication of each detail of information sought, each tape being divided into two or more sections which are differently colored or marked for differentiation, a plurality of floating links having oppositely disposed parallel rollers, each tape being in the form of a series of closed loops respectively threaded around said link rollers and connected in end-to-end relation by said links to form said endless tapes, and means for linearly moving either tape or laterally displacing the floating link connections relative to the fixed scale to expose a predetermined length of identified tape section.

2,593,349
BEAT FREQUENCY OSCILLATOR FOR RECEIVERS
Carl G. Seright, Riverton, and Harry F. Baker, Moorestown, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 1, 1947, Serial No. 783,518
2 Claims. (Cl. 250—20)



1. In a wave frequency converted, a first electron discharge device having input electrodes including a cathode and having additional electrodes maintained electropositive relative to said cathode, an input circuit coupled to said input electrodes and comprising reactive elements resonant at a fundamental frequency and in series therewith, in said input circuit, other reactive elements resonant substantially at a submultiple of said fundamental frequency, an output circuit including reactive elements coupled to said cathode and to an electropositive electrode of said first device, connections for applying oscillatory energy of said fundamental frequency to said input circuit, said connections including the output electrodes of a second electron discharge device which output electrodes are connected in series with said first-named and second-named series reactive elements, and a feedback circuit coupling another electropositive electrode of said first device to said other resonant reactive elements of said input circuit.

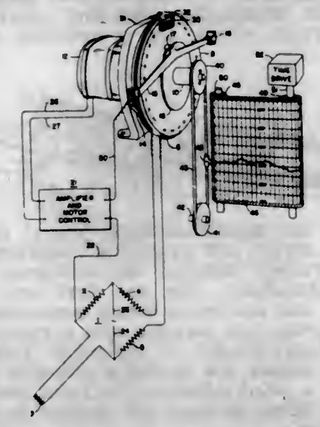
2,593,350
CONTROL CIRCUIT
Arthur M. Seybold, West Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 24, 1947, Serial No. 763,294
5 Claims. (Cl. 250—27)



1. Apparatus comprising, in combination, an electrical responsive load, a unidirectional gaseous discharge tube having an anode and a cathode, an auxiliary tube having a cathode, a control electrode and an anode, a circuit connecting the discharge path of said gaseous tube in series with said electrical responsive load, the cathode of said discharge tube being connected to said load, a biasing potential for said control electrode, a voltage supply source including a potential dropping device connected to the anodes of both of said tubes and said load energizing the same, and an interrupter to intermittently apply said biasing potential to said control electrode.

2,593,351
REBALANCING INDICATING INSTRUMENT
Jack F. Shannon, Euclid, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application February 28, 1947, Serial No. 731,573
9 Claims. (Cl. 73—362)

1. A measuring instrument comprising, in combination, a balanceable network having an element operating to effect an non-linear unbalance in response to changes in a condition to be measured, rebalancing means comprising a uniform resistance element having a contact, each movable relative to the other and electrically connected into said network, a motor electrically connected to said network and operating on an unbalance of the latter, means mechanically



connecting said motor to said resistance element for effecting movement thereof in direct proportion to motor movement, and means mechanically connecting said motor to said contact for effecting movement thereof in a manner predetermined to compensate between the non-linear unbalance and the linear movement of the balancing resistance.

2,593,352
PRODUCTION OF ZIRCONIUM SILICATE REFRACTORY
Clifford Shaw, William Edwin Smith, and Denis Eric Bosworth Greensmith, London, England; said Greensmith assignor to said Shaw and said Smith
No Drawing. Application July 23, 1946, Serial No. 685,766. In Great Britain August 23, 1945
6 Claims. (Cl. 106—57)

1. A process for the production of a refractory material which comprises reacting by heating a mixture of (*a*) zirconia with (*b*) finely-divided silica in substantially the stoichiometric proportions required for the formation of zircon, and (*c*) mineral zircon to a temperature above 1,000° C. but below that at which fusion of the mixture takes place and thereafter cooling the product, whereby zirconium silicate is formed in situ and is present in the composition in sufficient quantity to bind the particles of the mineral zircon.

2,593,353
PORTABLE PLURAL-STAGE CRUSHING, SCREENING, AND WASHING PLANT
Harry J. Shelton, Jr., Ladue, Mo., assignor to Gruendler Crusher and Pulverizer Co., St. Louis, Mo., a corporation of Missouri
Application September 21, 1949, Serial No. 116,895
2 Claims. (Cl. 241—101)

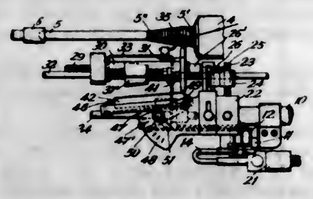
2. A crushing machine for rock, gravel, and the like, comprising an elongated mobile frame, a power driven coarse screen on one end portion of the frame for initial separation of raw material fed into the machine, a first adjustable crusher at one end of the coarse screen in position to receive all "overs" rejected by the coarse

screen, a first conveyor extending lengthwise of the frame beneath the coarse screen and the first crusher, a vibrating screen separator extending lengthwise of the frame substantially at the opposite end thereof from the coarse screen, conveying means receiving material from the first conveyor and depositing said material onto the screen separator, a second crusher mounted on the frame intermediate the first conveyor and the vibrating screen, and a recycling conveyor



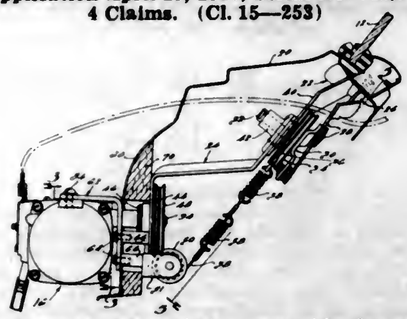
receiving the maximum sized "overs" from the vibrating screen and extending therefrom to the second crusher, whereby the conveyors do not pass continuously over the first and second crushers, said conveying means comprising a revolving drum-type elevator and a conveyor extending therethrough to the upper end of the vibrating screen, the recycling conveyor extending from a point adjacent the lower end of the vibrating screen through the elevator to the second crusher.

2,593,354
COP WINDING MACHINE WITH BUNCH BUILDER
Walter Siegenthaler, Erlenbach, Zurich, Switzerland, assignor to Maschinenfabrik Scharer, Erlenbach, Switzerland
Application April 7, 1947, Serial No. 739,770
In Switzerland April 25, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires April 25, 1961
5 Claims. (Cl. 242—27)



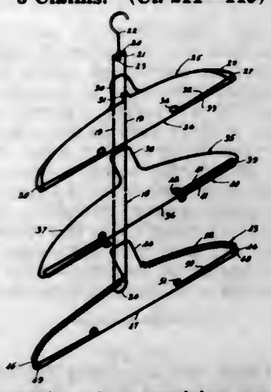
1. In a cop winding machine having means for producing a thread reserve on a spool to be wound, a thread guide, an axially reciprocating carrier rod for moving said thread guide forwardly, a slide for cooperation with said thread guide for automatically moving said guide rearwardly along said carrier rod to a predetermined position for producing said thread reserve, a clutching device operatively connected with said thread guide for cooperation with said carrier rod for coupling said thread guide and said carrier rod for conjoint movement forwardly for producing the spool winding proper, winding feeler means arranged in said machine independently of said thread guide engaging the winding and the thread guide for intermittently advancing said thread guide by means of said clutching device along said carrier rod in accordance with the length of said spool winding in progress of formation, and catch means for said winding feeler means operatively connected with said slide for releasing said slide from said feeler means for moving said thread guide rearwardly in excess of the traverse of said feeler means into said thread reserve producing position.

2,593,355
WINDSHIELD WIPER MECHANISM
Emil E. Sivacek, Ann Arbor, Mich., assignor to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application April 19, 1947, Serial No. 742,566
4 Claims. (Cl. 15—253)



1. A power transmission assembly for a vehicle windshield wiper mechanism including spaced wipers, and a motor mounted in the engine compartment of the vehicle adjacent an aperture in the fire wall of said vehicle, said assembly comprising spaced wiper actuating shafts adapted to be connected to said wipers, a first drive member common to said shafts, transmission means operatively coupling said member and said shafts, a second drive member common to said shafts and adapted to be connected through said aperture to said motor, additional transmission means operatively connecting said members, unitary mounting means adapted to be secured to said vehicle in predetermined relation to said windshield, said shafts, members and transmission means being mounted on said mounting means in predetermined relation to each other to form a unitary assembly, and means carried by said second member operable to connect said second member to and disconnect said second member from said motor without interfering with the mounting of said second member on said unitary mounting means.

2,593,356
MULTIPLE GARMENT RACK
Clyde V. Smith, Los Angeles, Calif.
Application October 10, 1949, Serial No. 120,448
3 Claims. (Cl. 211—119)



1. A garment rack comprising a vertical support, a plurality of transverse hanger members having projecting neck portions thereon connected to said support in vertical spaced relation to each other, arms extending outwardly and downwardly from opposite sides of each neck

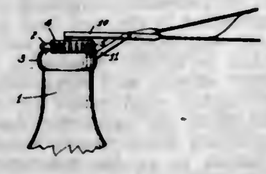
portion, a horizontal bar having a central portion thereof connecting the lower ends of the arms, the exterior portions of the bar of at least one of said hanger members being bent back upon the central portion at said lower ends of the arms and extending in juxtaposition with the central portion toward the center of the transverse hanger member to a point short of said center and having an end portion extending laterally outwardly from said center, said neck portion, arms and horizontal bar lying in a plane inclined to the plane of said support.

2,593,357
NOZZLE FOR THE EJECTION OF FLUID STREAMS
William Wycliffe Spooner, Ilkley, England
Application June 8, 1948, Serial No. 31,645
In Great Britain August 16, 1947
3 Claims. (Cl. 299—149)



1. A nozzle for the ejection of a fluid stream comprising a conduit having a slit in its wall parallel to its axis, a bar mounted on one side of said slit with its axis parallel to the axis of the slit, a flap projecting therefrom, means to rotate said bar about an axis parallel to said slit to vary its width of opening, and adjustable vanes in planes intersecting said slit at right angles thereto.

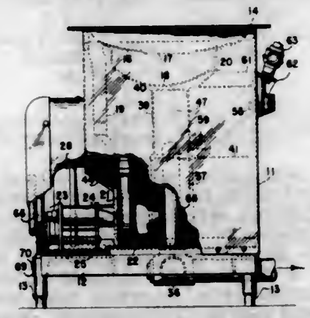
2,593,358
PIVOTED LEVER CROWN CAP REMOVER
Emil M. Sprich, St. Louis, Mo.
Application April 5, 1949, Serial No. 85,639
3 Claims. (Cl. 81—3.46)



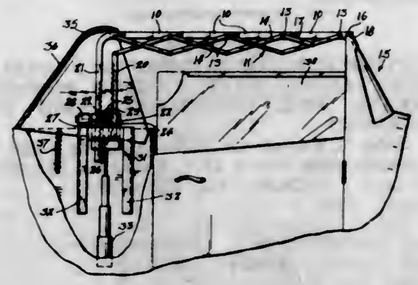
1. A tool for moving a bottle cap of the crown type and comprising a pair of cooperating movably interconnected elements an end of one of which engages with the central area of the cap and the end of the other element having a sharpened edge positioned to engage between the bottle and the rim of the cap, and handles on said elements for moving said ends together in unison against said cap to remove the latter.

2,593,359
TABLE SCRAP ELIMINATING DEVICE
Robert W. Strehlow, Milwaukee, Albert M. Olson, Wauwatosa, and Lawrence E. Kaap, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 28, 1949, Serial No. 124,156
18 Claims. (Cl. 241—46)

1. In rinsing apparatus for tableware and the like having a rinsing water reservoir and a water circulating system providing a discharge of rinsing water and apparatus for collecting and returning such water to the reservoir, a scrap disposal stack, means for separating table scraps from the recirculated water and eliminating the same, said means comprising a continuously operating separator arranged to convey the table scraps from the rinsing water directly into the disposal stack while returning the separated water to the reservoir, and a disintegrator communicating with the disposal stack arranged to receive the table scraps from the separator and to reduce them to finely comminuted form.



2,593,360
CONVERTIBLE TOP FOR AUTOMOBILES
Stanley Sulkowski, Jr., Brooklyn, N. Y.
Application February 14, 1951, Serial No. 210,923
4 Claims. (Cl. 296—117)



4. In a convertible vehicle roof construction having parallel lazy-tongs for extending and retracting roof slats, a pair of guided racks connected to each of said lazy-tongs, a pinion commonly meshing with each pair of racks, reversible operating means manually controllable for turning said pinions to extend or collapse said lazy-tongs, a self-locking worm gear arrangement between said pinions and said operating means for maintaining said lazy-tongs in the desired extended position, each of said pinions and the respective racks being mounted in housings, said housings being supported for vertical sliding movements, and means for lowering said housings in the collapsed position of the lazy-tongs and roof slats to retract the lazy-tongs and the roof slats into the vehicle, said lowering means comprising a cross bar extended between said housings joining them for unitary vertical sliding movements, and jacks mounted within the vehicle and engaging said cross bar.

2,593,361

WIDE RANGE HIGH-FREQUENCY SERIES-RESONANT TUNING CIRCUIT

George C. Szikiai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 30, 1948, Serial No. 68,233
5 Claims. (Cl. 178—44)



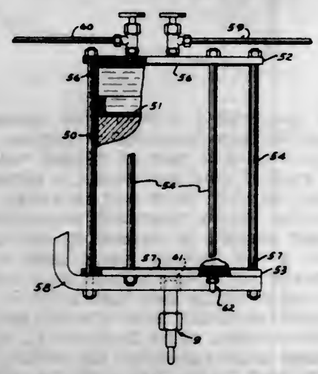
3. In combination with two pairs of terminals of a four terminal network, a pair of units each comprising two sets of elements one of each set being a generally quadrantal metallic plate and the other element of each set being a quadrantal portion of a generally annular inductive conductor enclosing a generally quadrantal space and having one end connected to and extending from a peripheral portion of said plate and the other end of which is free, mechanical rotating means including a rotor plate having generally quadrantal diametrically opposed vanes rotating about an axis normal to a single plane in which said elements lie, said plate having one position in capacitive relation to said plates and another position in inductive relation to said conductor and rotatable to intermediate positions, each of the points of connection of said annular conductors to said metallic plates being connected respectively to each of said terminals, the free ends of the annular conductors of one unit being connected respectively to the free ends of the annular conductors of the other unit, and mechanical means ganging the movement of said rotating means.

2,593,362

SUPPORT FOR CONTAINERS OF PASTELIKE SUBSTANCES HAVING FLUID PRESSURE MEANS FOR DISPENSING SAID SUBSTANCES

John L. Taylor, La Habra Heights, Calif.

Application July 8, 1946, Serial No. 681,944
1 Claim. (Cl. 222—389)



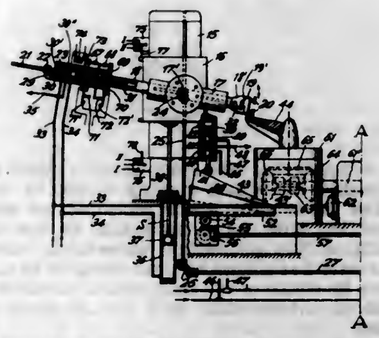
In a device of the character described: a lower head; an upper head; a container having an open top and a bottom with an aperture therein, said bottom resting on said lower head, the upper head serving to close said open top of said container; a piston in the container; means for admitting fluid under pressure through the upper head; there being an aperture in the lower head registering with said aperture in the bottom of the container; an outlet means connected to the aperture in the lower head; means for urging the two heads toward each other; inlet means connected to the interior of the container and carried by the lower head; said inlet means including a valve fitting threaded into the lower head, and means for relieving the pressure above the piston.

2,593,363

DEVICE FOR THE FULLY AUTOMATIC MACHINING OF SURFACES OF LEAFLIKE WORKS

Alfred Thalmann, Rorschacherberg, Switzerland, assignor to Starrfrasmaschinen A. G., Rorschacherberg, Switzerland

Application July 30, 1947, Serial No. 764,770
In Switzerland August 11, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires August 11, 1963
8 Claims. (Cl. 90—13.7)



1. Apparatus for the automatic machining of flat work pieces comprising in combination, means for reciprocating a workpiece in synchronism with a flat model of any feasible surface configuration in horizontal arcuate throws about an axis through the base of the work, feedable tool means for machining said work, a single tool carrier arm displaceable longitudinally of the work corresponding to the tool feed and adapted to be pivotally adjusted towards said work and to be movable vertically, a pivotal feeler arm, carrying feeler means and advancing like said tool arm, to explore said model for proportionately transmitting its exploring movement to said tool, auxiliary guide means associated with the feeler means to enable machining a work edge successive to machining a work side by said tool, a pressure fluid transmission system operatively connected with said tool means and said feeler means for controlling automatically the movement of the said tool means in accordance with the movement of the feeler means and electrically operated control means for causing the tool to travel around the work piece during the working and to machine both sides of the work piece by means of the single tool carrier arm.

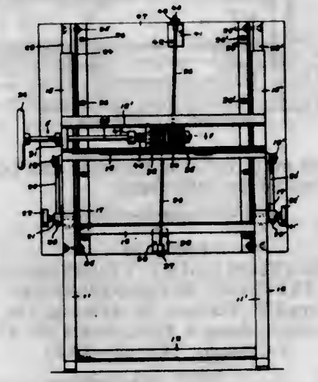
2,593,364

WRITING TABLE HAVING AN ADJUSTABLE DRAWING BOARD

Percy W. Thompson, Memphis, Tenn.

Application August 9, 1949, Serial No. 109,256
1 Claim. (Cl. 311—38)

A writer's table having a supporting body including a pair of spaced parallel vertically disposed frame members, horizontally disposed channels extending between said frame members and secured thereto, a pair of channel-shaped tracks pivotally connected to said frame members, a runner slidably arranged in each of said tracks, a drawing board connected to said runners, a clamp bracket secured to the upper end of each of said frame members, a quadrant connected to each of said tracks and slidably projected through said clamp brackets, a thumb screw for maintaining said quadrants removable in their adjusted position, the improvement comprising means for causing adjustable sliding movements of said drawing board and said means including a pair of angle irons extending between said tracks and secured thereto, a shaft arranged



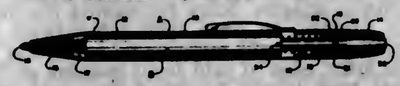
between said angle irons and rotatably supported thereby, a hand wheel secured to one end of said shaft for manually moving the latter, a grooved drum connected to the other end of said shaft, a cable trained over said drum and having its ends connected to opposite ends of said board, there being a plurality of spaced openings in one end of said drum, a bearing arranged adjacent said drum and connected to said angle member, a pin projecting from said bearing and normally secured to one of the openings of said drum preventing accidental movement of said drawing board.

2,593,365

BALL POINT PEN

John F. Thull, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn.

Application January 7, 1946, Serial No. 639,514
2 Claims. (Cl. 120—42.03)



1. A fountain pen having a replaceable ink unit with a tubular body, a restricted forward end formed on said ink unit, a writing ball mounted in the writing end of said unit, a rod-like end projecting from the rear of said unit having a ball recess formed therein, a casing for enclosing said unit, a coil spring positioned in said casing and bearing against said unit to normally urge the same in a backward direction, a clutch formed in said casing including a collar extending around said rod-like end, a ball recess for receiving a ball on the inner surface of said casing a ball bearing for said recess, and a coil spring normally urging said collar and said ball bearing into a locking position in said recess in said rod to hold said ink reservoir unit in writing position, said clutch being released by moving said collar against the action of said spring to relieve the ball bearing from the recess in said rod whereupon the coil spring at the front of said ink unit forces said ink unit in a backward direction in said casing to conceal said writing point within said casing.

2,593,366

WRITING INSTRUMENT

John F. Thull, Minneapolis, Minn., assignor to Brown & Bigelow, St. Paul, Minn.

Application July 10, 1946, Serial No. 682,712
1 Claim. (Cl. 120—42.03)



In a writing instrument, a moveable rear outer casing, an inner casing, an ink reservoir unit having a writing end formed thereon and slideable within said inner casing, a rod member secured to the upper end of said unit and projecting from said outer casing and having an annular groove formed therein, spring fingers secured to the inner surface of said inner casing adapted to engage said annular groove to hold said writing end extended from said outer casing, a sleeve secured to the inner surface of said outer casing adapted to force said spring fingers from said annular groove when said outer casing is moved upon said inner casing together with said rod member.

2,593,367

REELING MECHANISM

Harry H. Vandersee, Racine, Wis., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application January 9, 1945, Serial No. 571,991
15 Claims. (Cl. 242—99)

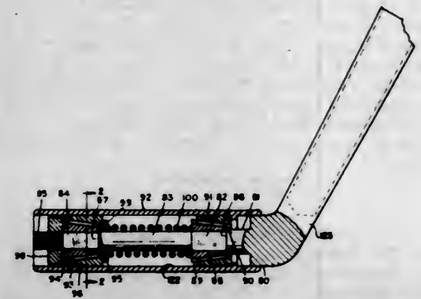


1. In a reeling mechanism, a reel, a fluid actuated driving motor therefor, a fluid supply, means for conducting fluid from said supply to said driving motor and for exhausting fluid from said motor, a valve element for controlling fluid flow through said conducting means and operative in one position to cut off communication between said fluid supply and said motor through said means for conducting fluid from said supply to said motor and having means operative automatically, under the action of the fluid thereon upon flow of fluid from said supply to move said valve element in one direction into a position to admit fluid to said motor, adjustable spring means for opposing movement of said valve element under the action of the fluid, and passage means controlled by movement of said valve element for by-passing a portion of the fluid in said conducting means to exhaust when said valve element is moved under the action of fluid and against the action of said spring means into substantially its limit of travel in said one direction and still continues to admit fluid to said motor.

7. In combination, in a valve mechanism, means forming a casing providing a series of four coaxial grooves connected by a valve receiving bore, each of said grooves having in communication with it a conduit, constantly

open connections from the conduits communicating with each of the end grooves leading to the respectively opposite ends of the valve bore, whereby each conduit communicates with an end groove and with the end of the valve bore which is the more remote from the end groove with which it communicates, a spool valve in said bore operative in an intermediate position to interconnect the two inner grooves and in one extreme end position of said valve to connect each intermediate groove with the adjacent end groove, and spring means for normally maintaining said valve in said intermediate position.

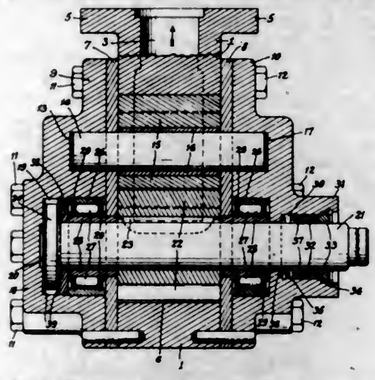
2,593,368
ADJUSTABLE GOLF CLUB
Joseph Verderber, Cleveland, Ohio
Original application September 5, 1945, Serial No. 614,461. Divided and this application November 18, 1948, Serial No. 60,700.
4 Claims. (Cl. 273—79)



1. An adjustable golf club comprising a shaft, a shank extending angularly therefrom, a head mounted slidably on said shank, said head having longitudinally spaced axially extending convergent serrations provided circumferentially internally thereof, a pair of conical locking members having external circumferential serrations secured to said shank in longitudinally spaced relationship coextensive with said serrations on said head and parallel thereto, and a compression spring mounted on said shank and having one end thereof seated against one of said members and the other end thereof abutting said head whereby to yieldably maintain the serrations on said head in nested interlocked engagement with the serrations on said shank at selected positions of angularity of said head relatively to said shank.

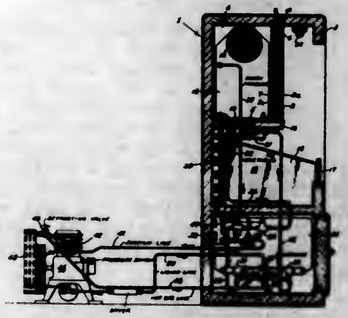
2,593,369
PUMP
Lester W. Wachter, Streator, Ill., assignor to Anthony Company, Streator, Ill., a corporation of Illinois
Application June 11, 1948, Serial No. 32,505
6 Claims. (Cl. 103—126)

2. In combination in a pump, a main housing member shaped to receive and surround a pair of meshing pump gears, a driving shaft slidably mounted within one of said gears, an enlargement on said shaft at one end thereof, and means for taking up thrust on said shaft, said means including an imperforate housing closure member, and parts positioned within said imperforate closure member in engagement with said enlargement, and adapted to absorb longitudinal thrust of said shaft in either direction, a second housing closure member fixed to said main housing member, said shaft extending through said second closure member, and a pair of friction resistant wearing plates positioned one on each



side of said main housing member and positioned to be contacted by said gears.

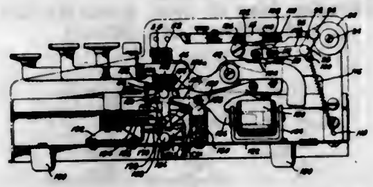
2,593,370
COMBINATION DAIRY, VEGETABLE, AND STORAGE REFRIGERATOR
Virgil P. Warren, II, Atlanta, Ga.
Application June 8, 1948, Serial No. 31,644
8 Claims. (Cl. 62—89.5)



2. A refrigerator having a front wall including a hood depending from the top thereof, said front wall having a large opening co-extensive with the width of the refrigerator, a refrigerated cabinet inset with respect to said hood and opening and disposed in the upper portion of said refrigerator, horizontally slidable doors for closing the front of said cabinet, an open type refrigerated bin disposed beneath said cabinet and extending below the lower edge of said front opening so that the user may extend his head into said front opening and help himself to products contained in said bin, and means for refrigerating said cabinet and said bin.

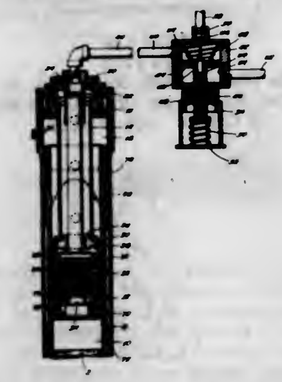
2,593,371
ELECTRICALLY OPERATED STENOGRAPHIC MACHINE
Jeannette K. Watson, New Canaan, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 26, 1949, Serial No. 106,924
3 Claims. (Cl. 197—9)

3. In a stenographic machine adapted for manual and electrical operation having a plurality of keys, a type bar for each of said keys, key levers operably connecting each key with its respective type bar, an operating element mechanically independent of but operable by the depression of a key extending transversely under said key levers in operative proximity thereto, ribbon feed and paper feed mechanisms operable by said



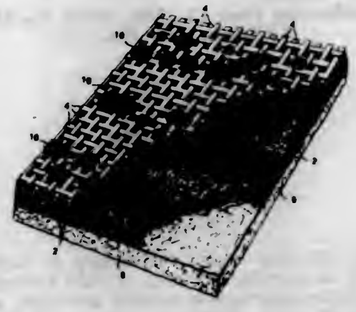
operating element, an electro-magnetic device, means operably connecting said operating element and said electro-magnetic device, and means for energizing said electro-magnetic device upon depression of any of said keys.

2,593,372
SHOCK ABSORBER
Raymond Watts, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 19, 1947, Serial No. 792,667
21 Claims. (Cl. 267—64)



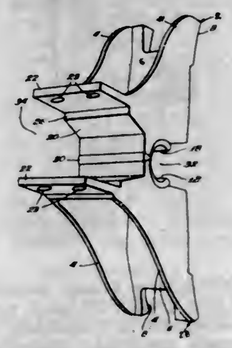
1. An hydraulic shock absorber comprising a cylinder member with a high pressure chamber, a piston member reciprocal in said chamber, a low pressure chamber in one of the members, a port connecting said chambers, and means carried by said one member for metering hydraulic fluid flowing through said port, said means comprising an axially expansible and contractible resilient unit having an axial passage communicating with said port, and radial passage means for connecting said axial passage to the low pressure chamber, a cylinder carried by said one member, a piston in the second-mentioned cylinder bearing against said unit, a compressed gas spring in said second-mentioned cylinder adapted to compress said piston against said unit and to yieldingly resist expansion of said unit due to increase of pressure in the hydraulic fluid flowing through said passage means, said piston being movable into said cylinder to compress said gas spring during expansion of said means, and a pressure regulator connected to said cylinder for maintaining the pressure of said gas spring at a substantially constant value by exhausting the gas from said cylinder as said piston moves thereinto when said means expands whereby the load of the spring on said piston is substantially constant irrespective of the extent of expansion of said means.

2,593,373
RESILIENT AND HEAT-RESISTANT BLANKET
John W. Weber, Norristown, Pa.
Application October 18, 1948, Serial No. 55,165
4 Claims. (Cl. 28—79)



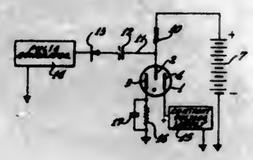
4. A pad needled to a layer of backing material, said pad being formed substantially exclusively of stainless steel fibers and including groups of stainless steel fibers extending in a direction from one surface toward and through the other surface to provide interlocking of the stainless steel fibers of the pad and to provide attachment of the pad to the backing material, and said pad having disposed on the entire surface thereof a layer of a self-adhering mass of intermingled asbestos fibers.

2,593,374
DROP FORGED AND WELDED BRAKE HEAD
Loren L. Whitney, Hammond, Ind., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application June 8, 1948, Serial No. 31,735
8 Claims. (Cl. 188—236)



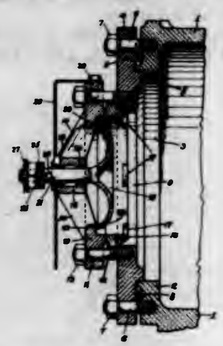
1. A fabricated brake head comprising top and bottom forgings each having a front wall with an end lug and an intermediate lug, a transverse web extending rearwardly from said intermediate lug, and spaced side walls connected to the transverse web and to the front wall, spaced ribs connecting each transverse wall to the rear surface of the associated front wall, a keyway through each transverse web intermediate the related ribs, the adjacent surfaces of respective webs being formed with semi-sockets defining a hanger socket, and said webs being offset rearwardly of said socket to define a brake beam socket, and a weld connecting said webs between said sockets.

2,593,375
ASYMMETRICAL COLD CATHODE FLIP-FLOP CIRCUIT
Charles R. Williams, Hawthorne, and Glenn E. Hagen, Lawndale, Calif., assignors to Northrop Aircraft, Inc., Hawthorne, Calif., a corporation of California
Application June 12, 1950, Serial No. 167,572
6 Claims. (Cl. 315—337)



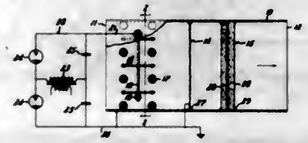
1. A flip-flop circuit including a tube comprising an envelope, a pair of cold cathodes and an intermediate anode in said envelope, a filling of gas at glow discharge pressure in said envelope, a limiting resistance, a source of potential higher than the firing potential of said tube connected between said anode and both of said cathodes in series with said limiting resistance, an RC circuit connected to one of said cathodes, a constant voltage supply in series with the other of said cathodes and subtractive to the potential of said source, and an input line connected to apply an input pulse to said anode.

2,593,376
AIR VALVE
Paul Willis, Blue Island, Ill.
Application April 1, 1946, Serial No. 658,658
3 Claims. (Cl. 251—127)



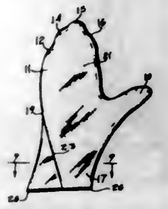
1. In combination a steam engine valve chest apertured at one end, a flanged, centrally apertured gland adapted to penetrate the aperture, with the flange overlying the chest, packing means interposed between the gland and the chest, and means for compressing the packing means to hold the gland on the chest, a sleeve having a tapered extension the inner diameter of which is less than and the outer diameter of which is greater than the diameter of the opening, a spider including radial arms, a hub, and a ring, said spider adapted to engage the end of the sleeve, means interposed between the gland and the spider for causing the spider ring to seat the tapered extension of said sleeve in the gland aperture, a valve within the sleeve adapted to seat on the inner face of the spider ring, means extending inwardly from the sleeve into the path of the valve, a valve stem integral with said valve and slidable in the hub.

2,593,377
GAS CLEANING APPARATUS
Harry A. Wintermute, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York.
Application May 15, 1946, Serial No. 669,917
10 Claims. (Cl. 183—7)



1. Gas cleaning apparatus which comprises a casing providing a conduit for the flow of gas therethrough said casing having disposed therewithin successively in the direction of gas flow particle-charging means, means for contacting the gas stream with an extended grounded metallic surface, and filter means for collecting particles from the gas stream, said grounded metallic surface means being perforate, extending substantially across the gas stream and being positioned at a location substantially removed from the electrical influence of an opposing charged electrode.

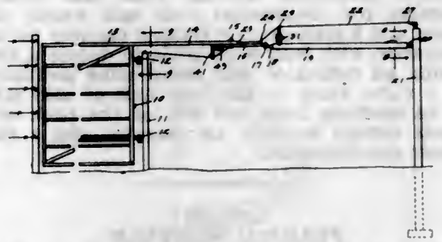
2,593,378
MITTEN
Hilda Woller-Duff, New York, N. Y.
Application August 19, 1948, Serial No. 45,082
1 Claim. (Cl. 2—158)



In a glove formed of a back portion and a palm portion having aligned thumb engaging projections, one of said portions being cut off diagonally to have a straight edge extending from a point midway of the length thereof on the side opposite the side having the respective thumb engaging projection to a point midway of the width of the said one portion at the wrist end thereof, the other portion having on its side opposite its respective thumb engaging projection a gusset-like extension having a diagonally extended straight edge matching the straight edge of the said one portion, said gusset-like extension being folded so that its diagonally extended straight edge extends parallel to the straight edge of the said one portion, and stitches securing said straight edges together with a minimum of overlap of the material of the portions defining said straight edges.

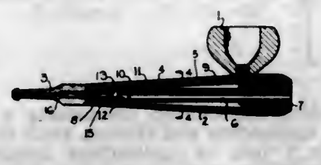
2,593,379
GATE OPERATOR
Gus D. Wueste, San Antonio, Tex.
Application November 14, 1949, Serial No. 126,973
5 Claims. (Cl. 20—23)

1. In a swinging gate, a link, a lever pivotally connected adjacent one end to said link and extending from said link, an extensible lever pivotally connected at one end thereof to the other end of said link, a post spaced from said gate, means pivotally securing said extensible lever to



said post, releasable latching means for holding said first mentioned lever and said link in alignment to thereby maintain the gate closed, and means constantly urging the gate to closed position.

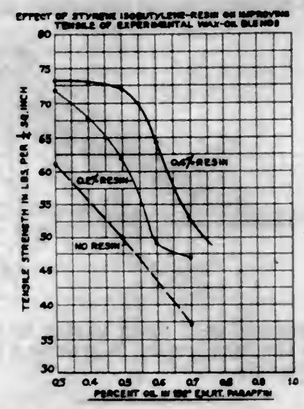
2,593,380
TOBACCO PIPE
Harold G. Wyse, Dayton, Ohio
Application March 19, 1945, Serial No. 583,457
4 Claims. (Cl. 131—194)



4. A smoking device, including a tapered hollow stem, a tobacco receptacle mounted on the large end of said stem and communicating with the interior thereof, a plug having a longitudinal through opening therein mounted in the large end of said stem, an open ended heat exchange and condensate collecting tube axially disposed in said stem with its one end received in the longitudinal opening in said plug and with its other end in screw threaded connection with the small end of said stem, said tube defining with said stem an annular smoke chamber diminishing in size toward the small end of said stem, a mouthpiece formed with a shoulder to abut the small end of the stem and a tubular projection received in and closing the adjacent end of said tube, and lateral aligned ports in said tube and the tubular projection on said mouthpiece located adjacent the vanishing point of said smoke chamber to connect said chamber to said mouthpiece.

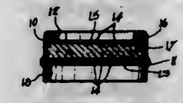
2,593,381
STABILIZED PARAFFIN WAX COMPOSITIONS
David W. Young, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application November 30, 1948, Serial No. 62,775
1 Claim. (Cl. 260—28.5)

The process for producing a wax composition having the properties of wax containing less than 0.3% by weight of oil from wax containing more than 0.3% but less than 0.65% by weight of oil, by incorporating into said wax 0.2 to 0.4% by weight of a styrene isobutylene copolymer of 50 to 60% styrene content at a temperature above



the melting point of the paraffin wax with mechanical agitation.

2,593,382
SANITARY TELEPHONE MOUTHPIECE ATTACHMENT
Charles E. Zimmermann, North Arlington, N. J.
Application June 23, 1950, Serial No. 169,868
8 Claims. (Cl. 179—185)

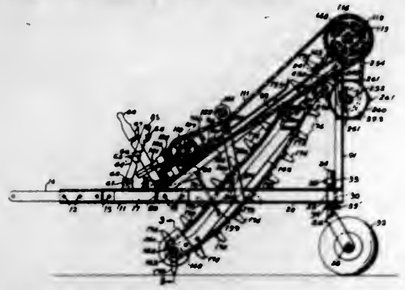


1. An attachment for a telephone mouthpiece comprising, a cylindrical body open at one end to be slipped over the mouthpiece and having an internal peripheral groove substantially intermediate the ends, an inwardly extended flange at the other end of said body, a plurally perforated member having the circumferential edge thereof folded inwardly and fixedly secured in said peripheral groove, a first plurally perforated disc rotatably seated in said perforated member, a second plurally perforated member having an outwardly extending circumferential flange fixedly secured in said inwardly extending cylinder flange, a second plurally perforated disc rotatably disposed between said second perforated member and said cylinder flange, and an absorbent germicidal saturated packing interposed between said plurally perforated members.

2,593,383
PEANUT HARVESTING APPARATUS
Hartsell W. Beaver, Blakely, Ga., assignor to Turner Manufacturing Company, Statesville, N. C., a corporation of North Carolina
Application January 5, 1949, Serial No. 69,279
3 Claims. (Cl. 56—327)

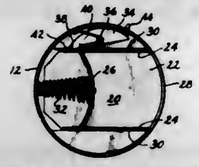
1. An improvement in apparatus for picking up vegetation from the ground, such as peanut vines which have been excavated from the ground having a wheeled frame provided with an endless conveyor inclined upwardly and rearwardly and having its lower front end adjacent the ground over which the wheeled frame travels, said conveyor having a pair of spaced sprocket chains and a plurality of transverse bars extending between the sprocket chains and each bar having a plurality of teeth secured thereto, said improvement comprising each tooth being L-

shaped to provide a base portion and a piercing portion, the piercing portion having two opposed side edges sloping towards each other at identical



acute angles and each tooth having its outer end parallel to the base portion to provide a truncated isosceles triangle.

2,593,384
RECEPTACLE
Joseph E. Butler, Montgomery County, Md., assignor of forty per cent to Robert N. Price and forty per cent to Jerald S. Howe, both of Washington, D. C.
Application January 18, 1949, Serial No. 71,415
3 Claims. (Cl. 312—319)



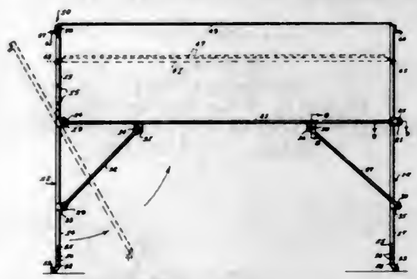
1. A portable receptacle comprising a housing having a vertical wall and a bottom wall, said vertical wall containing an opening intermediate its height, a container movable through said opening to a closed position with respect to said housing, a front wall carried by said container covering said opening when said container assumes its closed position, a spring within said housing biasing said container outwardly towards its open position, a latch pivotally mounted on a vertical axis in said housing for restraining said container against the force of said spring, a latch operator projecting through said vertical wall, a lug mounted on a rearwardly disposed portion of said container alternately engageable with said latch and a portion of said housing to restrain said container in its closed and open positions respectively, and a top wall located above said opening and covering said container in its closed position.

2,593,385
FOOT MEASURING DEVICE
James S. Digate, Chicago, Ill., assignor to The Scholl Mfg. Co., Inc., Chicago, Ill., a corporation of New York
Application April 24, 1947, Serial No. 743,665
2 Claims. (Cl. 33—3)



1. A foot measuring and shoe size indicating device, comprising an elongated stick of less width than the human foot, a pair of complementary flat-faced upstanding blocks on said stick, one of said blocks being fixed to the stick adjacent an end thereof, the other block being slidably along said stick, a shoe length size scale along one margin of said stick, another scale along the opposite margin of said stick, a trailing member carried by said slidable block, a pointer projecting laterally from said trailing member for cooperation with said length size scale, and a scale on said trailing member for cooperation with said other scale to denote a shoe width, all indicia of said scales being positioned at a right angle to the long axis of said stick to be readable from one side of the stick with equal facility by both an operator and a customer simultaneously.

2,593,386
FOLDING SCAFFOLD
Delmur H. Dirks, Clarkston, Wash.; Daisy Dirks executrix of Delmur H. Dirks, deceased
Application May 21, 1948, Serial No. 28,392
1 Claim. (Cl. 304—2)



A knockdown scaffold comprising a pair of opposed upstanding end frames, each end frame including a pair of upstanding tubular posts having their top ends open and a pair of apertured plates secured to the tubular posts of each end frame and projecting laterally of the end frames, elongated substantially horizontal brace bars extending between the upstanding end frames and having apertured ends disposed adjacent to the apertured plates, pin means hingedly connecting the apertured plates and said apertured ends, the apertured plates and brace bars being disposed near the longitudinal centers of the end frames and spaced a substantial distance below the tops of the tubular posts, readily removable substantially horizontal guard bars extending between the top ends of the tubular posts and provided with depending end extensions engageable within the open top ends of the tubular posts, the guard bars bracing the top ends of the end frames against pivotal movement about said pin means, and a platform extending between the end frames and having its ends detachably connected therewith and supported by the end frames.

2,593,387
VENTILATOR WINDOW FRAME
Howard M. Dodge, Wabash, Ind., assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
Application May 19, 1950, Serial No. 162,949
4 Claims. (Cl. 296—4.4)

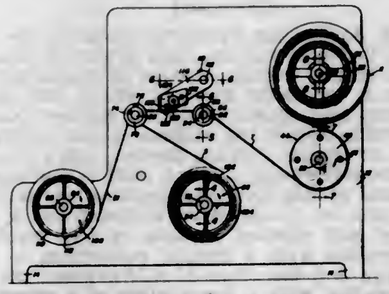
1. A ventilator frame for mounting in the window opening of an automobile door and between the inner and outer door panels comprising a metal channel bar bent to conform to an end of the window opening, said bar having its web facing inwardly and its flanges projecting

outwardly for reception between the door panels, and a flexible elastic rubber facing adhered to said web, said facing being wider than the bar and having opposite edge portions projecting past opposite sides of the bar to cover the edges



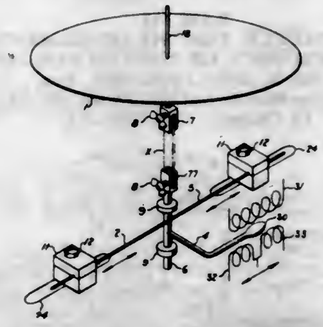
of the door panel on opposite sides of the bar, said facing having alined window pivot receiving portions and offset ribs extending from said pivot receiving portions for engagement with opposite sides of the ventilator.

2,593,388
TAPE SPLITTING MACHINE
Daniel Littman, Reading, Pa., assignor to Industrial Equipment & Supply Co., Reading, Pa., a corporation of Pennsylvania
Application May 7, 1951, Serial No. 224,936
7 Claims. (Cl. 164—65)



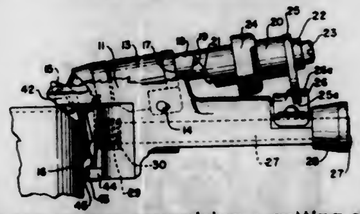
1. A splitting machine for adhesive tape comprising an elongated supporting wall, a first pair of horizontally disposed rotary members rotatably supported on one end of the wall and disposed one above the other with their axes of rotation lying in a common vertical plane, the lower of said members forming a driver, a second pair of rotary members rotatably supported on the wall and disposed in side-by-side relation adjacent the first pair of rotary members and with their axes in a common horizontal plane bisecting the vertical plane through the axes of the first pair of members between the axes of the first pair of members, a third pair of rotary members rotatably supported on the wall beneath the second pair of members and disposed in side-by-side relation with their axes in a common horizontal plane spaced parallel to a horizontal plane through the axes of the second pair of members, a power means mounted behind the wall and operatively connected to both of the third pair of members and one each of the first and second pair of members, and a straight blade supported on the wall and extending between the members of said second pair of members, all of said members being disposed in front of the wall.

2,593,389
RECORDING TORSION PENDULUM
Lawrence E. Nielsen, Springfield, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Application December 2, 1950, Serial No. 198,819
3 Claims. (Cl. 73—99)



1. In a torsion pendulum apparatus for testing dynamic shear modulus and damping, said apparatus including a wire of known torque resistance fixedly attached to a moment-of-inertia disc, a specimen holding means fixedly attached to said disc, a second specimen holding means positioned vertically under said first specimen holding means, and a shaft supporting said second specimen holding means and extending vertically thereunder, the improvement which comprises at least one spring rod attached to said shaft in a direction perpendicular to the long axis of the shaft, adjustable clamping means on the spring rod, an indicating rod fixedly attached to said shaft in a direction perpendicular to the long axis of said shaft, and means cooperating with said indicating rod to automatically record the movement thereof in response to oscillations of the moment-of-inertia disc transmitted to said indicating rod through the specimen and said shaft.

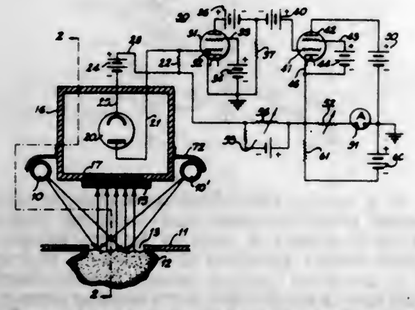
2,593,390
CAN OPENER
Edward L. Verhagen, Rahway, N. J., assignor to The Regina Corporation, Rahway, N. J., a corporation of New York
Application November 24, 1950, Serial No. 197,411
3 Claims. (Cl. 30—9)



1. A can opener comprising a cutting element, a container feeding means, and guide means, for positioning the container in the can opener, said guide means comprising a flat metal spring guide member, having lateral forwardly extending wing portions on both sides of said feeding means, each of said wing portions having an outermost point and extending upwardly and inwardly from said outermost point thereby presenting an inclined surface to receive the flange of the container being operated on by said can opener, said can opener including a housing and a pro-

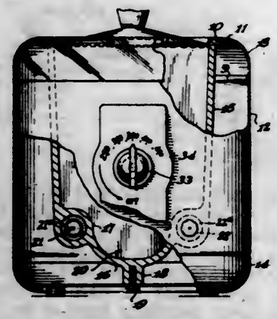
jection in said casing beneath said feed means, said guide member having a lower channel shaped portion adapted to fit over said projection, and a protrusion on said channel shaped portion, extending outwardly beyond the outermost point of said feeding means.

2,593,391
FLUOROMETER FOR MEASUREMENT OF FLUORESCENCE OF UNEVEN SURFACES
Ellis E. Bray, Cedar Hill, Tex.
Application March 2, 1950, Serial No. 147,184
13 Claims. (Cl. 250—53)



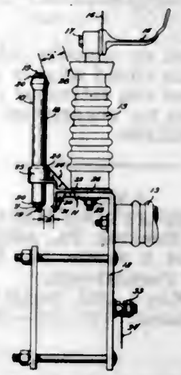
1. In a fluorometer having a housing light-tight except for a sample receiving aperture in one face thereof, the combination which comprises a light sensitive device in said housing positioned axially of said aperture, a distributed source of ultraviolet light in said housing and positioned in a plane perpendicular to said axis for uniform radiation of the sample placed in said aperture, means for excluding from said light sensitive device, radiations from said sample and from said source, of wave lengths emitted by said source, and means for measuring the response of said light sensitive device upon irradiation of samples in said aperture by light from said source.

2,593,392
ELECTRIC DEEP FAT FRYER
Stanley J. Budlane and Robert Dusek, Chicago, Ill., assignors to Dulane, Inc., River Grove, Ill., a corporation of Illinois
Application November 28, 1949, Serial No. 129,752
10 Claims. (Cl. 99—403)



1. An electric deep fat fryer comprising a deep cooking kettle for fat, which cooking kettle is formed of heavy metal, a well formed in the bottom of said kettle of less horizontal cross sectional area than the cross sectional area of the major portion of the kettle, electric heating means embedded in the metal forming the upper portion of the well, which electric heating means partially encompasses the well, and a thermostat for controlling the operation of said heating means, said thermostat being mounted in intimate heat conducting relation with said kettle on a vertical portion thereof which is devoid of said electric heating means.

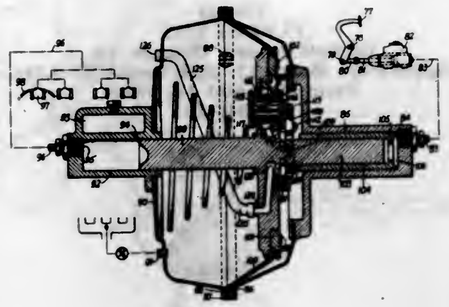
2,593,393
LIGHTNING PROTECTOR DEVICE
Rolland D. Nelson, Hales Corners, and Edwin A. Link, Milwaukee, Wis., assignors to Rural Transformer & Equipment Co., Milwaukee, Wis., a corporation of Illinois
Application November 22, 1950, Serial No. 197,002
12 Claims. (Cl. 175—30)



1. A double gap lightning protector for electrical instrumentalities, said protector comprising a hollow element formed of insulating material, a conductor disposed within said hollow element, said conductor having exposed portions projecting beyond the confines of said hollow element at remote portions thereof, and a supporting member of said element, each of said exposed portions of said conductor forming one terminal of a pair of spaced series arranged spark gaps, one of said exposed portions of said conductor cooperating with a ground connection to form one gap and the other of said exposed portions cooperating with a live portion of a power line to form the other gap, whereby a series arranged double gap lightning protector is provided having a single mounting means and affording protection against accidental shorting through contact of foreign bodies by reason of its construction.

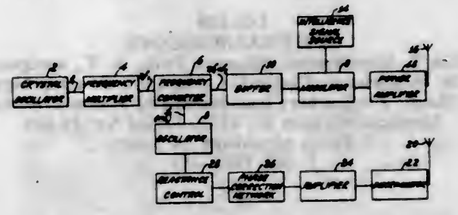
2,593,394
POWER PRESSURE INTENSIFIER
Edward A. Rockwell, Cleveland, Ohio
Application January 24, 1945, Serial No. 574,325
16 Claims. (Cl. 60—54.5)

1. A power unit, comprising a connection on the power unit adapted to be connected to a source of pressure differing from the atmospheric pressure, a power motor having a movable wall, a chamber containing said wall, a hydraulic plunger operated by said wall, said plunger being provided with a chamber in which one end of said plunger operates, a valve mechanism carried by the unit for controlling the application of said pressure to said motor, hydraulic means for receiving pressure from a master cylinder, having a hydraulic connection to the opposite end of said plunger for moving the plunger so that a reaction is exerted from the applied power to said master cylinder hydraulic connection, said master cylinder being provided for suppling to the unit hydraulic fluid to control the valve mechanism, a valve operating sleeve located around a portion of said plunger, an element adapted to perform



work, and a hydraulic connection from said element to the plunger chamber having a liquid compensating reservoir provided with a compensation port cooperating with said other end of plunger.

2,593,395
HIGH-FREQUENCY AMPLITUDE MODULATED TRANSMITTER
George C. Szikiai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 17, 1950, Serial No. 150,323
5 Claims. (Cl. 332—38)

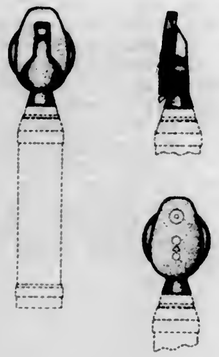


1. A transmitter comprising in combination a first source of voltage waves of a given frequency, a second source of voltage waves of a much lower frequency than said given frequency, a frequency converter connected so as to receive the outputs of said first and second sources, a modulator to which the output of said frequency converter is applied, a source of intelligence bearing signals also connected to said modulator, means for transmitting the modulated wave thus formed, a tuned discriminator energized by a portion of said modulated wave, and means for controlling the frequency of said second source by the output of said discriminator.

DESIGNS

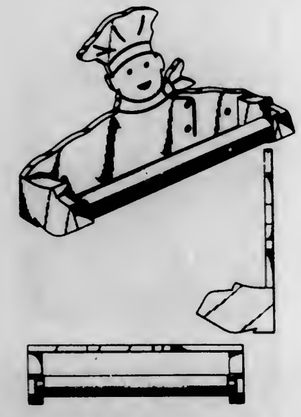
APRIL 15, 1952

166,438
OPHTHALMOSCOPE
John T. Armbruster, Niagara Falls, N. Y., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application July 25, 1951, Serial No. 16,026
Term of patent 14 years
(Cl. D57—1)



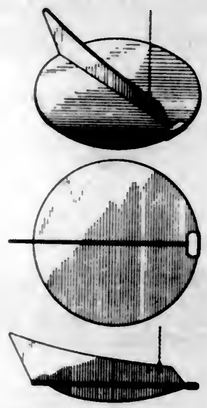
The ornamental design for an ophthalmoscope, substantially as shown and described.

166,439
ROLL HOLDER
Anthony Badami, Philadelphia, Pa.
Application December 19, 1951, Serial No. 17,777
Term of patent 3½ years
(Cl. D44—29)



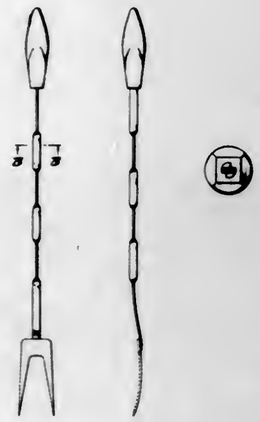
The ornamental design for a roll holder, as shown.

166,440
FLYING TOY
Haskell Benson, Chicago, Ill.
Application March 17, 1950, Serial No. 8,586
Term of patent 3½ years
(Cl. 34—15)



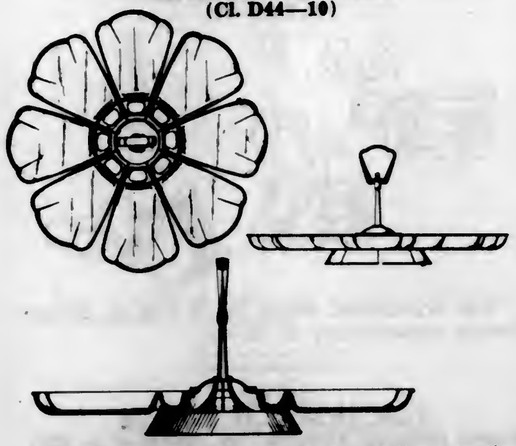
The ornamental design for a flying toy, as shown and described.

166,441
BARBEQUE FORK
Malcolm C. Bert, Jr., Inglewood, Calif.
Application July 8, 1950, Serial No. 11,007
Term of patent 7 years
(Cl. D44—29)



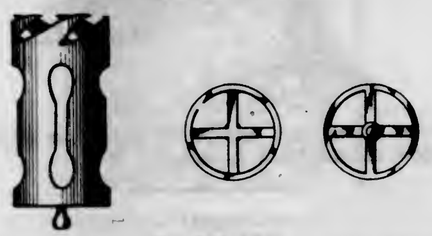
The ornamental design for a barbecue fork, substantially as shown and described.

166,442
MULTITRAY SERVING RECEPTACLE
John M. Black, Chicago, Ill., assignor, by mesne assignments, to Superior Plastics Inc., Chicago, Ill., a corporation of Illinois
Application June 13, 1951, Serial No. 15,528
Term of patent 14 years
(Cl. D44—10)



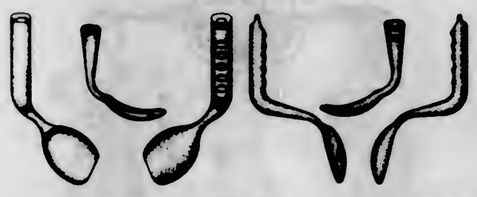
The ornamental design for a multitray serving receptacle, substantially as shown.

166,443
HAIR CURLER OR SIMILAR ARTICLE
Eugene Buzasi, Sunnyside, N. Y., assignor to Sara Hering, New York, N. Y.
Application October 29, 1951, Serial No. 17,158
Term of patent 14 years
(Cl. D86—10)



The ornamental design for a hair curler or similar article, substantially as shown and described.

166,444
CHILD'S FEEDING SPOON
Franck Henri Carré, Van Nuys, Calif.
Application September 28, 1951, Serial No. 16,770
Term of patent 14 years
(Cl. D44—29)



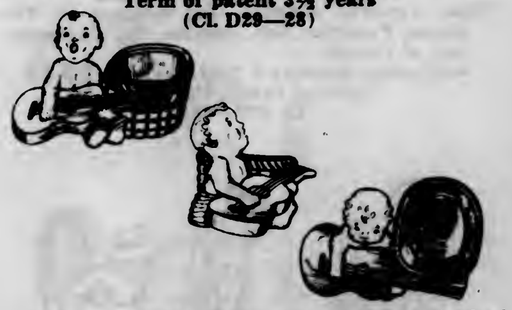
The ornamental design for a child's feeding spoon, as shown.

166,445
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,935
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a vase or similar article, substantially as shown.

166,446
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,936
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a vase or similar article, substantially as shown.

166,447
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,937
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a vase or similar article, substantially as shown.

166,448
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,938
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a vase or similar article, substantially as shown.

166,449
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,939
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a vase or similar article, substantially as shown.

166,450
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,940
Term of patent 3½ years
(Cl. D29—28)



The ornamental design for a vase or similar article, substantially as shown.

166,451
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,941
Term of patent 3½ years
(Cl. D29—28)

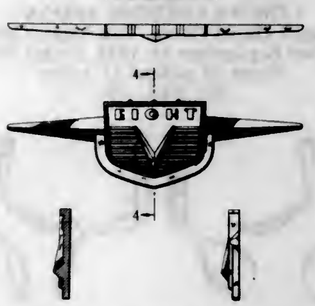


The ornamental design for a vase or similar article, substantially as shown.

166,452
VASE OR SIMILAR ARTICLE
Helen Conover, Chicago, Ill., assignor to The Haeger Potteries, Inc., Dundee, Ill., a corporation of Illinois
Application January 4, 1952, Serial No. 17,942
Term of patent 3½ years
(Cl. D29—28)

The ornamental design for a vase or similar article, substantially as shown.

166,453
MEDALLION
John D. Cuccio, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application January 2, 1951, Serial No. 13,652
Term of patent 3½ years
(Cl. D14—6)



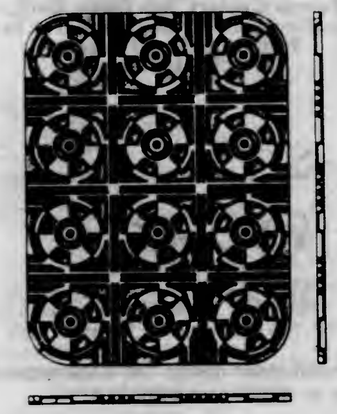
The ornamental design for a medallion, as shown.

166,454
NONGURGLING BOTTLE
Carlos Ernesto de Sá Cardoso, Lisbon, Portugal
Application September 7, 1950, Serial No. 12,091
In Portugal March 11, 1950
Term of patent 14 years
(Cl. D58—8)



The ornamental design for a non-gurgling bottle, substantially as shown.

166,455
PACKING FLAT
Urban H. Despres, Clinton, Maine
Application April 11, 1951, Serial No. 14,797
Term of patent 14 years
(Cl. D58—13)



The ornamental design for a packing flat, as shown.

166,456
CONDIMENT HOLDER
Adrienne Brita Juvet Dokus and John Ivan Dokus, Newark, N. J.
Application December 22, 1951, Serial No. 17,807
Term of patent 14 years
(Cl. D44—22)

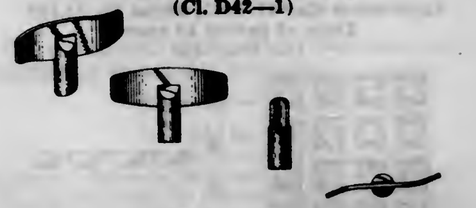


166,456—Continued



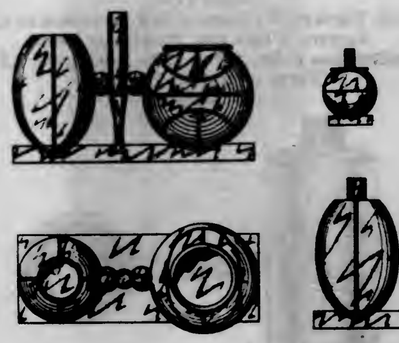
The ornamental design for a condiment holder, as shown.

166,457
WINDING-KEY FOR A CLOCK OR SIMILAR ARTICLE
Henry Dreyfuss, Pasadena, Calif., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application April 20, 1950, Serial No. 9,249
Term of patent 14 years
(Cl. D42—1)



The ornamental design for a winding-key for a clock or similar article, substantially as shown.

166,458
FISH BOWL
James J. Edwards, High Point, N. C.
Application November 19, 1951, Serial No. 17,469
Term of patent 7 years
(Cl. D91—2)



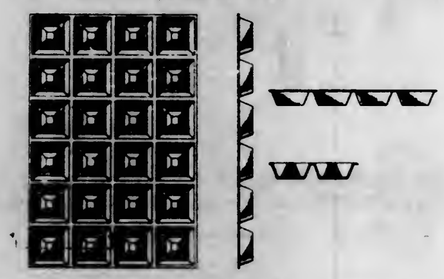
The ornamental design for a fish bowl, as shown.

166,459
SLIPPER
Donna L. Fenlason, New York, N. Y.
Application October 20, 1951, Serial No. 17,049
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a slipper, substantially as shown.

166,460
MOLDED PULP INSULATION ARTICLE
Richard S. French, Waterville, Maine
Application May 11, 1951, Serial No. 15,139
Term of patent 14 years
(Cl. D58—13)



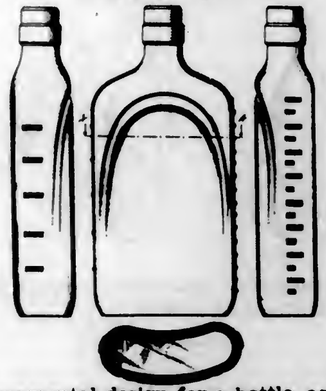
The ornamental design for a molded pulp insulation article, as shown.

166,461
BOTTLE
John H. Funkey, Baltimore, Md., assignor to Carr-Lowrey Glass Co., Baltimore, Md.
Application February 7, 1950, Serial No. 7,787
Term of patent 14 years
(Cl. D58—8)



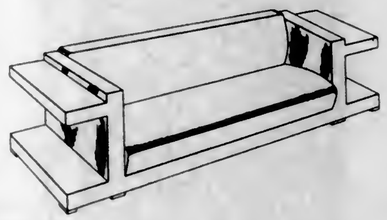
The ornamental design for a bottle, as shown.

166,462
BOTTLE
Daniel Goldstein, New York, N. Y., assignor to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware
Application April 10, 1951, Serial No. 14,786
Term of patent 14 years
(Cl. D58—8)



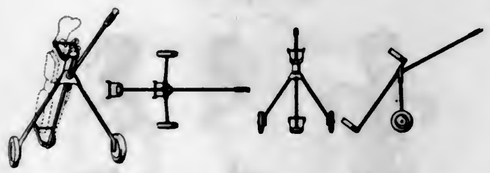
The ornamental design for a bottle, as shown.

166,463
DAVENPORT
Joseph Goulart, San Diego, Calif.
Application April 27, 1951, Serial No. 14,991
Term of patent 3½ years
(Cl. D15—11)



The ornamental design for a davenport, substantially as shown and described.

166,464
CART FOR TRANSPORTING A GOLF BAG OR THE LIKE
Joseph Henry Gunning, Los Angeles, Calif.
Application December 26, 1950, Serial No. 13,593
Term of patent 14 years
(Cl. D14—3)



The ornamental design for a cart for transporting a golf bag or the like, substantially as shown and described.

166,465
HANDBAG
William H. Hardy, River Edge, N. J.
Application September 14, 1951, Serial No. 16,642
Term of patent 3½ years
(Cl. D87—3)



The ornamental design for a handbag, substantially as shown.

166,466
MEDALLION
Edward E. Herrmann, South Bend, Ind., assignor to The Studebaker Corporation, South Bend, Ind., a corporation of Delaware
Application January 2, 1951, Serial No. 13,648
Term of patent 3½ years
(Cl. D14—6)



The ornamental design for a medallion, as shown.

166,467
TABLECLOTH
Howard D. Hooven, deceased, late of Doylestown, Pa., by Florence S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company, a corporation of Pennsylvania
Application August 17, 1951, Serial No. 16,333
Term of patent 14 years
(Cl. D92—26)



The ornamental design for a tablecloth, substantially as shown and described.

166,468
TABLECLOTH
Howard D. Hooven, deceased, late of Doylestown, Pa., by Florence S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company, a corporation of Pennsylvania
Application August 17, 1951, Serial No. 16,334
Term of patent 14 years
(Cl. D92—26)



The ornamental design for a tablecloth, substantially as shown and described.

166,469
TABLECLOTH
Howard D. Hooven, deceased, late of Doylestown, Pa., by Florence S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company, a corporation of Pennsylvania
Application August 17, 1951, Serial No. 16,347
Term of patent 14 years
(Cl. D92—26)



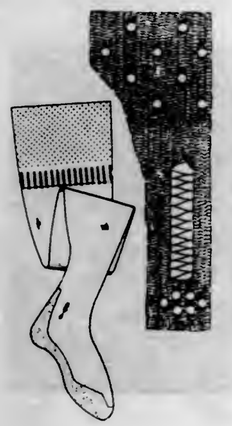
The ornamental design for a tablecloth, substantially as shown and described.

166,470
TABLECLOTH
Howard D. Hooven, deceased, late of Doylestown, Pa., by Florence S. Hooven, executrix, Doylestown, Pa., assignor to Quaker Lace Company, a corporation of Pennsylvania
Application August 17, 1951, Serial No. 16,351
Term of patent 14 years
(Cl. D92—26)



The ornamental design for a tablecloth, substantially as shown and described.

166,471
STOCKING
Max Junghans, Boonton, N. J., assignor to Van Raalte Company, Inc., New York, N. Y., a corporation of New York
Application March 19, 1951, Serial No. 14,548
Term of patent 7 years
(Cl. D47—7)



The ornamental design for a stocking, substantially as shown.

166,472
SOLE FOR A BOOT OR SIMILAR ARTICLE
Samuel Kaplan, Beverly Hills, Calif.
Application February 18, 1952, Serial No. 18,569
Term of patent 7 years
(Cl. D7—5)



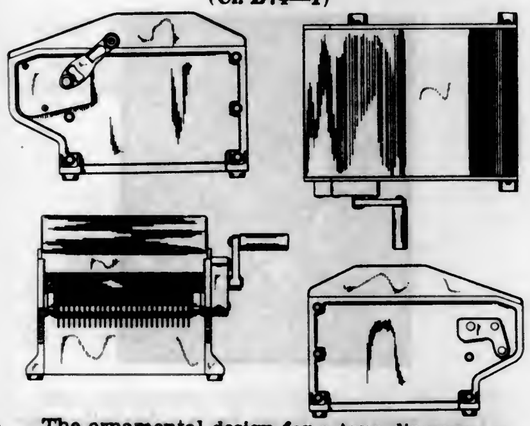
The ornamental design for a sole for a boot or similar article, substantially as shown and described.

166,473
MONEYBAG BANK
Bernard Krebs and Morton Krebs, New York, N. Y.
Application May 9, 1950, Serial No. 9,816
Term of patent 7 years
(Cl. D34—11)



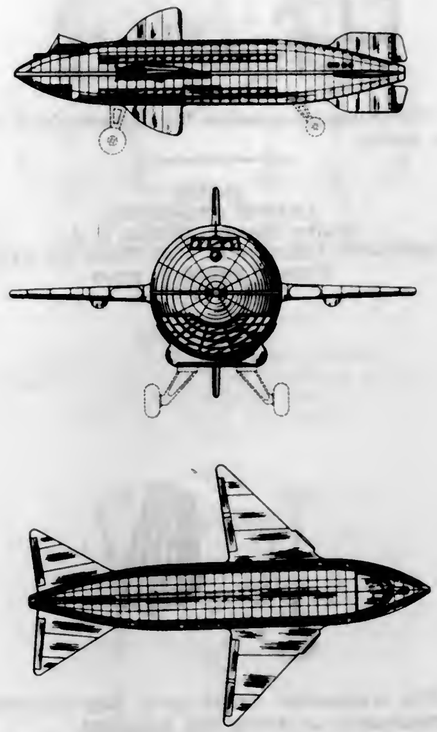
The ornamental design for a moneybag bank, substantially as shown and described.

166,474
TAPE DISPENSER OR SIMILAR ARTICLE
Alfred P. Krueger, Stratford, Conn., assignor to Derby Sealers, Incorporated, Derby, Conn., a corporation of Connecticut
Application August 31, 1950, Serial No. 12,008
Term of patent 14 years
(Cl. D74—1)



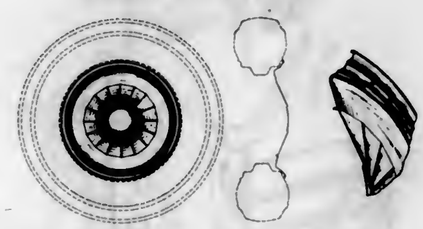
The ornamental design for a tape dispenser or similar article, substantially as shown.

166,475
AIRSHIP
Raymond F. Lewis, Vancouver, British Columbia, Canada
Application March 9, 1950, Serial No. 8,410
Term of patent 3½ years
(Cl. D71—1)



The ornamental design for an airship, as shown and described.

166,476
WHEEL COVER MEMBER OR SIMILAR ARTICLE
George Albert Lyon, Detroit, Mich.
Application November 30, 1951, Serial No. 17,573
Term of patent 14 years
(Cl. D14—30)



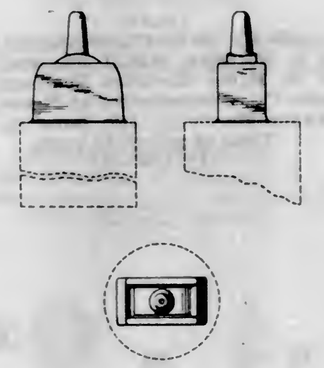
The ornamental design for a wheel cover member or similar article, substantially as shown and described.

166,477
DECANTER BOTTLE
John A. Margolis, Philadelphia, Pa., assignor to Margo Wine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 26, 1949, Serial No. 5,716
Term of patent 14 years
(Cl. D58—8)



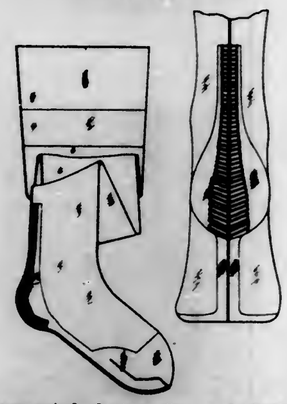
The ornamental design for a decanter bottle, as shown.

166,478
COMBINED RECEPTACLE AND CLOSURE MEMBER THEREFOR
Harry A. Mart, Chicago, Ill.
Application October 12, 1951, Serial No. 16,925
Term of patent 14 years
(Cl. D58—26)



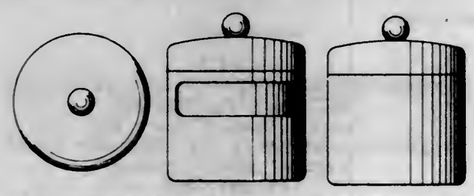
The ornamental design for a combined receptacle and closure member therefor, substantially as shown and described.

166,479
LADY'S STOCKING
Ernest A. Maye, Lenoir, and William M. Powell, Valdese, N. C., assignors to Lenoir Hosiery Mills, Inc., a corporation of North Carolina
Application August 30, 1951, Serial No. 16,485
Term of patent 14 years
(Cl. D47—7)



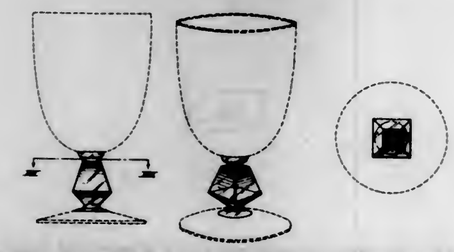
The ornamental design for a lady's stocking, substantially as shown.

166,480
GREASE JAR
Melvin G. Miller, Houston, Tex.
Application March 4, 1946, Serial No. 127,099
Term of patent 14 years
(Cl. D58—25)



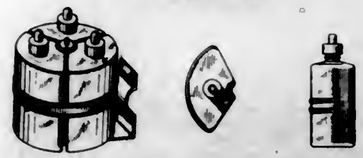
The ornamental design for a grease jar, as shown.

166,481
GOBLET OR SIMILAR ARTICLE
William P. Merrison, Mount Pleasant, Pa., assignor to Bryce Brothers Company, Mount Pleasant, Pa., a corporation of Pennsylvania
Application March 28, 1951, Serial No. 14,649
Term of patent 14 years
(Cl. D26—8)



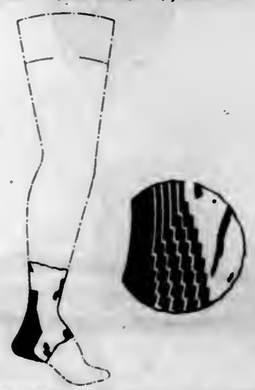
The ornamental design for a goblet or similar article, as shown and described.

166,482
BATTERY FILLER UNIT
Asa H. Mosher, Westfield, N. J.
Application November 4, 1949, Serial No. 5,856
Term of patent 14 years
(Cl. D58—6)



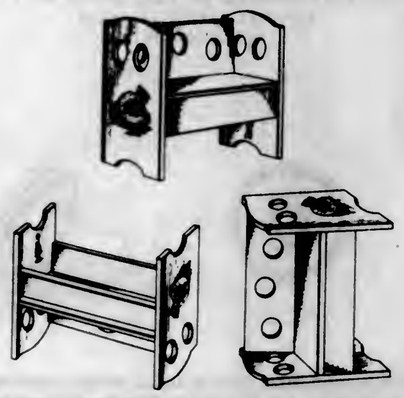
The ornamental design for a battery filler unit, as shown.

166,483
LADY'S STOCKING
Walter Mueller, Clifton, N. J.
Application February 12, 1951, Serial No. 14,184
Term of patent 14 years
(Cl. D47—7)



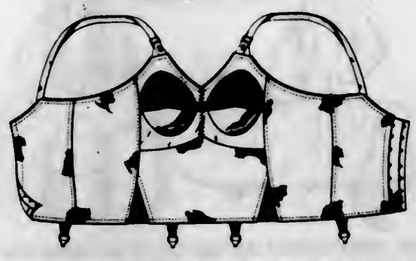
The ornamental design for a lady's stocking, substantially as shown and described.

166,484
COMBINATION TOY CHAIR, CRADLE, AND TABLE
Charles A. Nash, Seattle, Wash.
Application December 8, 1950, Serial No. 13,333
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a combination toy chair, cradle and table, as shown.

166,485
BRASSIÈRE
Morris Newman, New York, N. Y., assignor to Surprise Brassiere Co. Inc., New York, N. Y., a corporation of New York
Application August 4, 1951, Serial No. 16,149
Term of patent 14 years
(Cl. D20—4)



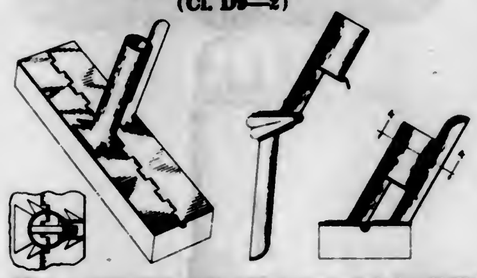
The ornamental design for a brassière, as shown.

166,486
HOURGLASS
Erik Gösta Nyholm, Falun, Sweden
Application June 27, 1950, Serial No. 10,779
In Sweden May 23, 1950
Term of patent 3½ years
(Cl. D42—7)



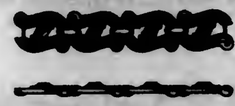
The ornamental design for an hourglass as shown.

166,487
MOP
William E. Parker, Warren, Ohio
Application April 14, 1951, Serial No. 14,835
Term of patent 14 years
(Cl. D9—2)



The ornamental design for a mop, substantially as shown and described.

166,488
LINK CHAIN FOR A BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,668
Term of patent 7 years
(Cl. D45—16)



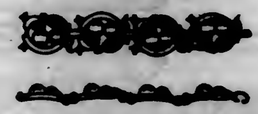
The ornamental design for a link chain for a bracelet or the like, substantially as shown.

166,489
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 8, 1951, Serial No. 17,669
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

166,490
LINK CHAIN FOR A NECKLACE OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 28, 1951, Serial No. 17,864
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a link chain for a necklace or the like, substantially as shown.

166,491
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y.
Application January 21, 1952, Serial No. 18,129
Term of patent 3½ years
(Cl. D45—19)



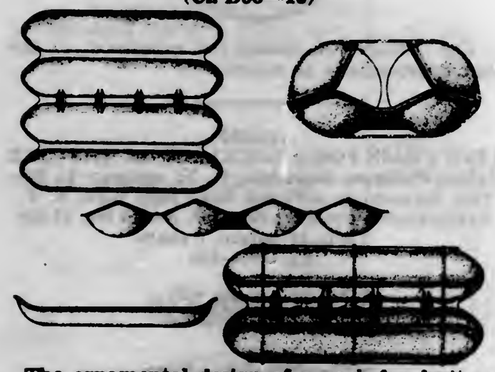
The ornamental design for a brooch or the like, substantially as shown.

166,492
PACK FOR FRUIT OR SIMILAR ARTICLES
Walter H. Randall, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, and William B. Nulty, Portland, Maine, as trustees
Application May 27, 1950, Serial No. 10,236
Term of patent 14 years
(Cl. D58—13)



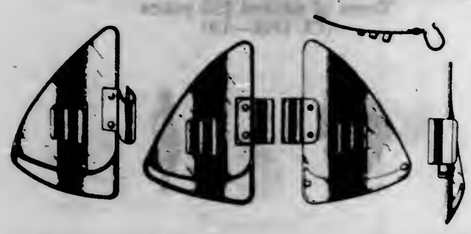
The ornamental design for a pack for fruit or similar articles, as shown and described.

166,493
PACK FOR FRUIT OR SIMILAR ARTICLES
Walter H. Randall, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, and William B. Nulty, Portland, Maine, as trustees
Application May 27, 1950, Serial No. 10,237
Term of patent 14 years
(Cl. D58—13)



The ornamental design of a pack for fruit or similar articles, as shown and described.

166,494
AUTOMOBILE WIND DEFLECTOR
Harry A. Reichman, Chicago, Ill.
Application October 18, 1951, Serial No. 17,003
Term of patent 7 years
(Cl. D14—6)



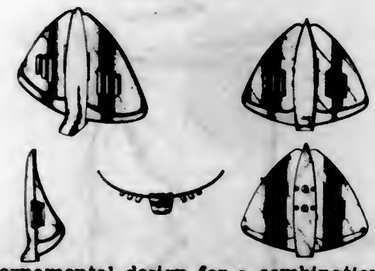
The ornamental design for an automobile wind deflector, substantially as shown.

166,495
COMBINATION VEHICLE HOOD ORNAMENT AND DEFLECTOR
Harry A. Reichman, Chicago, Ill.
Application October 18, 1951, Serial No. 17,005
Term of patent 7 years
(Cl. D14—6)



The ornamental design for a combination vehicle hood ornament and deflector, substantially as shown and described.

166,496
COMBINATION VEHICLE HOOD ORNAMENT AND DEFLECTOR
Harry A. Reichman, Chicago, Ill.
Application October 18, 1951, Serial No. 17,006
Term of patent 7 years
(Cl. D14—6)



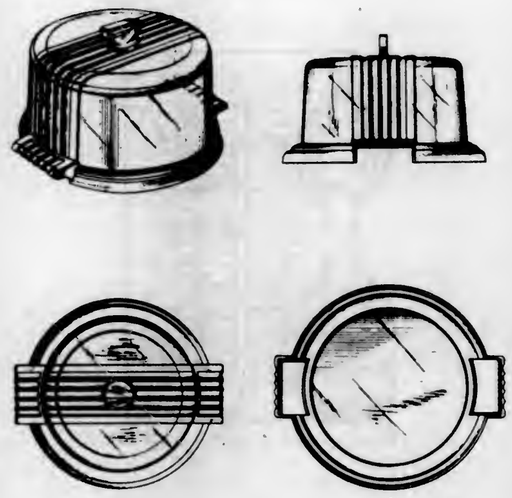
The ornamental design for a combination vehicle hood ornament and deflector, substantially as shown.

166,497
DISPENSING CONTAINER FOR FLUID
Paul E. Rochrich, Rockville Centre, N. Y., assignor to Richford Corporation, New York, N. Y., a corporation of New York
Application October 29, 1951, Serial No. 17,146
Term of patent 14 years
(Cl. D83—1)



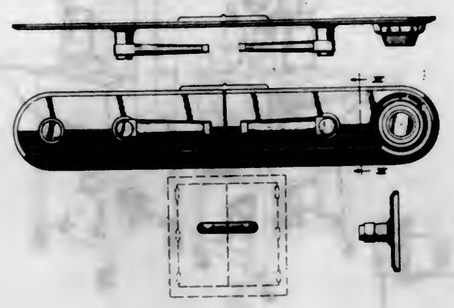
The ornamental design for a dispensing container for fluid, substantially as shown.

166,498
CAKE RECEPTACLE OR SIMILAR ARTICLE
Nathan W. Roop, Columbus, Ohio, assignor to Columbus Plastic Products, Inc., Columbus, Ohio, a corporation of Ohio
Application September 10, 1951, Serial No. 16,592
Term of patent 14 years
(Cl. D44—19)



The ornamental design for a cake receptacle or similar article, substantially as shown.

166,499
COMBINATION HANDLE AND LOCK UNIT
Earl F. Rutan, Pound Ridge, N. Y., assignor to The Mosler Safe Company, Hamilton, Ohio, a corporation of New York
Application January 2, 1952, Serial No. 17,386
Term of patent 14 years
(Cl. D69—1)



The ornamental design for a combination handle and lock unit, as shown and described.

166,500
TABLECLOTH OR SIMILAR ARTICLE
Nessim Shalom, Brooklyn, N. Y.
Application October 23, 1951, Serial No. 17,072
Term of patent 3½ years
(Cl. D92—26)



The ornamental design for a tablecloth or similar article, substantially as shown.

166,501
TABLECLOTH OR SIMILAR ARTICLE
Nessim Shalom, Brooklyn, N. Y.
Application October 23, 1951, Serial No. 17,073
Term of patent 3½ years
(Cl. D92—26)



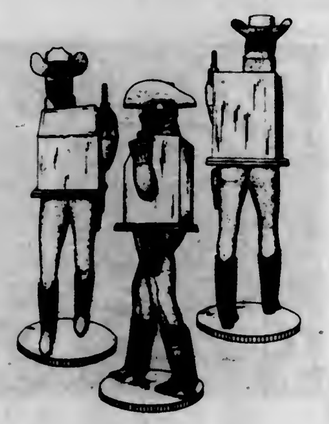
The ornamental design for a tablecloth or similar article, substantially as shown.

166,502
TABLECLOTH OR SIMILAR ARTICLE
Nessim Shalom, Brooklyn, N. Y.
Application October 23, 1951, Serial No. 17,074
Term of patent 3½ years
(Cl. D92—26)



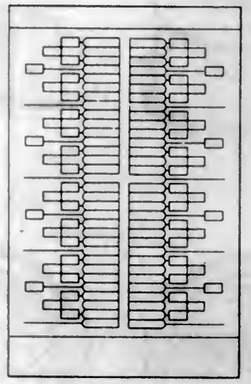
The ornamental design for a tablecloth or similar article, substantially as shown.

166,503
CASING FOR AN AMUSEMENT GAME
Harry L. Skelly and Edith Freedman, Reno, Nev.
Application November 5, 1951, Serial No. 17,279
Term of patent 14 years
(Cl. D52—3)



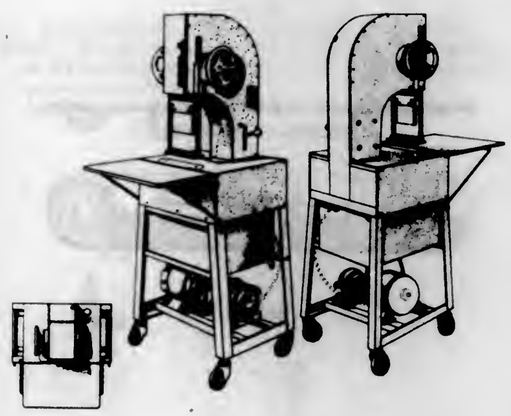
The ornamental design for a casing for an amusement game, substantially as shown.

166,504
DECIMAL CHART OR SIMILAR ARTICLE
John Harold Slingerland, Wheaton, Ill., assignor to Central Steel and Wire Company, Chicago, Ill., a corporation of Illinois
Application September 15, 1949, Serial No. 5,018
Term of patent 3½ years
(Cl. D59—2)



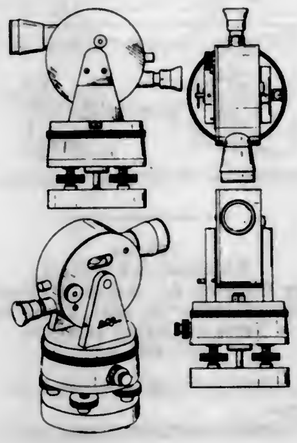
The ornamental design for a decimal chart or similar article, as shown and described.

166,505
HYDRAULIC POCKET SLASHER
Edwin W. Smith, Dallas, Tex.
Application June 4, 1951, Serial No. 15,389
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a hydraulic pocket slasher, substantially as shown and described.

166,506
BUILDER'S TRANSIT LEVEL
William F. Sprengnether, Jr., St. Louis, Mo.; Roberta L. Sprengnether administratrix of said William F. Sprengnether, deceased
Application June 12, 1951, Serial No. 15,513
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a builder's transit level, as shown.

166,507
PENDANT
Vincent Sorrentino, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application August 24, 1951, Serial No. 16,425
Term of patent 14 years
(Cl. D45—15)



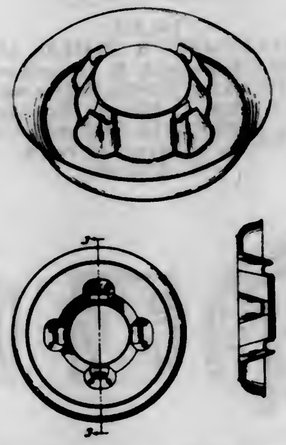
The ornamental design for a pendant, substantially as shown.

166,508
EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application December 8, 1951, Serial No. 17,659
Term of patent 3½ years
(Cl. D3—9)



The ornamental design for an embroidered trimming or similar article, substantially as shown.

166,509
ASH TRAY
William F. Vernon, Newton, Iowa
Application December 8, 1951, Serial No. 17,651
Term of patent 14 years
(Cl. D85—2)



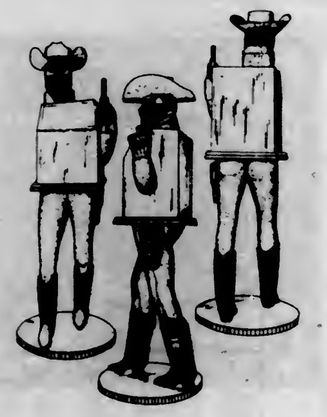
The ornamental design for an ash tray, substantially as shown and described.

166,502
TABLECLOTH OR SIMILAR ARTICLE
Nessim Shalom, Brooklyn, N. Y.
Application October 23, 1951, Serial No. 17,074
Term of patent 3½ years
(Cl. D92—26)



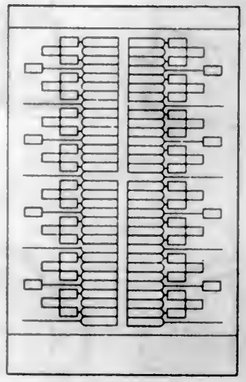
The ornamental design for a tablecloth or similar article, substantially as shown.

166,503
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Harry L. Skelly and Edith Freedman, Reno, Nev.
Application November 5, 1951, Serial No. 17,279
Term of patent 14 years
(Cl. D52—3)



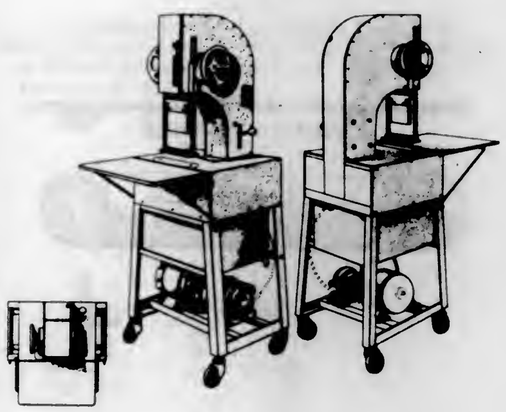
The ornamental design for a casing for an amusement game, substantially as shown.

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DECIMAL CHART OR SIMILAR ARTICLE
John Harold Slingerland, Wheaton, Ill., assignor to Central Steel and Wire Company, Chicago, Ill., a corporation of Illinois
Application September 15, 1949, Serial No. 5,018
Term of patent 3½ years
(Cl. D59—2)



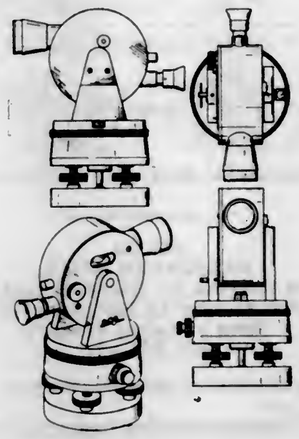
The ornamental design for a decimal chart or similar article, as shown and described.

166,505
HYDRAULIC POCKET SLASHER
Edwin W. Smith, Dallas, Tex.
Application June 4, 1951, Serial No. 15,389
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a hydraulic pocket slasher, substantially as shown and described.

166,506
BUILDER'S TRANSIT LEVEL
William F. Sprengnether, Jr., St. Louis, Mo.; Roberta L. Sprengnether administratrix of said William F. Sprengnether, deceased
Application June 12, 1951, Serial No. 15,513
Term of patent 14 years
(Cl. D52—1)



The ornamental design for a builder's transit level, as shown.

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Vincent Sorrentino, Providence, R. I., assignor to Uncas Manufacturing Company, a corporation of Rhode Island
Application August 24, 1951, Serial No. 16,425
Term of patent 14 years
(Cl. D45—15)



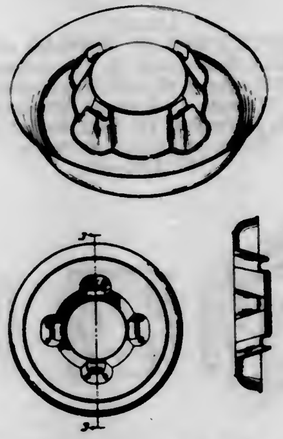
The ornamental design for a pendant, substantially as shown.

166,508
EMBROIDERED TRIMMING OR SIMILAR ARTICLE
Hans Tobler, Teaneck, N. J.
Application December 8, 1951, Serial No. 17,659
Term of patent 3½ years
(Cl. D3—9)



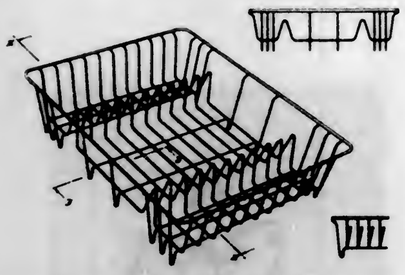
The ornamental design for an embroidered trimming or similar article, substantially as shown.

166,509
ASH TRAY
William F. Vernon, Newton, Iowa
Application December 8, 1951, Serial No. 17,651
Term of patent 14 years
(Cl. D85—2)



The ornamental design for an ash tray, substantially as shown and described.

166,510
DRAINER FOR DISHES, GLASSWARE, AND SILVERWARE
Henry J. Watral, Ramsey, N. J.
Application July 18, 1950, Serial No. 11,245
Term of patent 14 years
(Cl. D44—29)

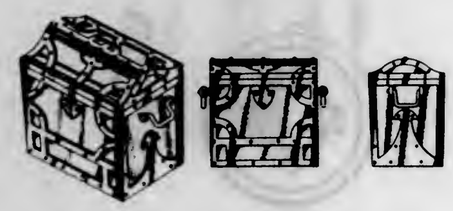


The ornamental design for a drainer for dishes, glassware, and silverware, as shown and described.

166,511
ILLUMINABLE MAKE-UP MIRROR
Ernest H. Westmore, North Hollywood, Calif.
Application September 19, 1949, Serial No. 5,069
Term of patent 3½ years
(Cl. D86—10)

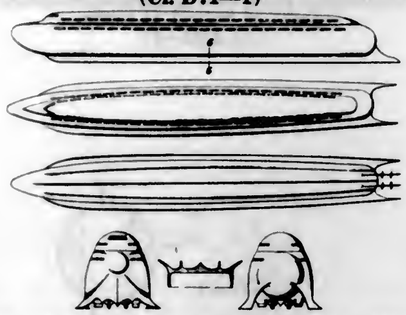
The ornamental design for an illuminable make-up mirror, as shown and described.

166,512
CIGARETTE CASE OR SIMILAR ARTICLE
Ara L. White, Edgewood, R. I., assignor of one-third to Thomas A. Glavin, Edgewood, and one-third to William F. Werner, Providence, R. I.
Application December 19, 1951, Serial No. 17,775
Term of patent 14 years
(Cl. D86—9)



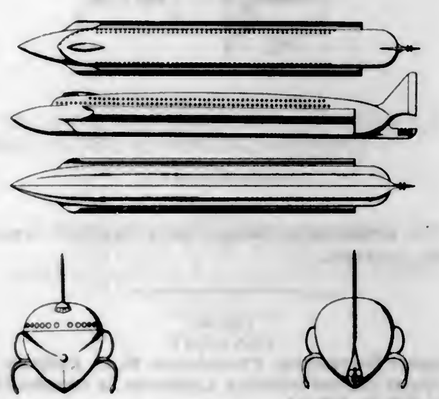
The ornamental design for a cigarette case or similar article, as shown and described.

166,513
MARINE VESSEL
Walter Wiggins, Jr., Beaver Heights, Md.
Application September 27, 1951, Serial No. 16,760
Term of patent 14 years
(Cl. D71—1)



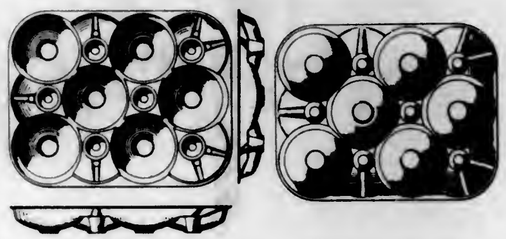
The ornamental design for a marine vessel, as shown.

166,514
PASSENGER BOAT
Walter Wiggins, Jr., Beaver Heights, Md.
Application October 29, 1951, Serial No. 17,143
Term of patent 14 years
(Cl. D71—1)



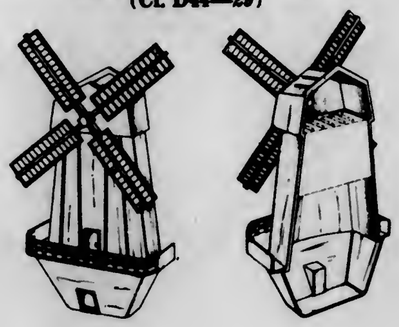
The ornamental design for a passenger boat, as shown.

166,515
PACKING SHEET FOR FRAGILE ARTICLES
Philip M. Williams, Oakland, Maine
Application March 14, 1951, Serial No. 14,477
Term of patent 14 years
(Cl. D58—13)

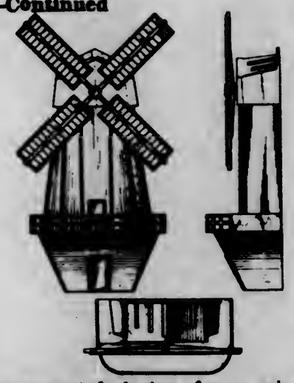


The ornamental design for a packing sheet for fragile articles, as shown.

166,516
WINDMILL KNIFE HOLDER
Bernard Yellin, Chicago, Ill.
Application January 5, 1952, Serial No. 17,949
Term of patent 14 years
(Cl. D44—29)



166,516—Continued



The ornamental design for a windmill knife holder, substantially as shown.

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[redacted]

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April 22, 1952 Volume 657 Number 4

Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

Aberfoyle Manufacturing Company, Philadelphia and Chester, Pa. Fabrics in the piece. Serial No. 605,131, Apr. 22. Class 42.

Ackerman, Dolletta M., Hollywood, Calif. Hair tonic. Serial No. 617,471, Apr. 22. Class 51.

Admiral Corporation, Chicago, Ill. Printed publication. Serial No. 617,938, Apr. 22. Class 38.

Advance Aluminum Castings Corp., Chicago, Ill. Knives, forks, spoons, etc. Serial No. 617,385, Apr. 22. Class 28.

Aktiebolaget Findus: *See*—
Aktiebolaget Konservfabriken Findus.

Aktiebolaget Konservfabriken Findus, Bjuv, now by change of name Aktiebolaget Findus, assignor to Aktiebolaget Marabou, Sundbyberg, Sweden. Canned and quick-frozen fruits, berries, vegetables, beef, etc. Serial No. 576,948, Apr. 22. Class 46.

Aktiebolaget Marabou: *See*—
Aktiebolaget Konservfabriken Findus.

Aktiebolaget Wallco, Stockholm, Sweden. Ski waxes. Serial No. 584,788, Apr. 22. Class 16.

Aldens, Inc., Chicago, Ill. Rafter framing squares, try squares, and all squares, etc. Serial Nos. 613,695–6, Apr. 22. Class 26.

Allen, Bobbie: *See*—
Epstein, Joseph H.

Althouse Chemical Company, Inc., Reading, Pa. Dyes and dyestuffs. Serial No. 594,679, Apr. 22. Class 6.

Aluminum Company of America, Pittsburgh, Pa. Metal tubing. Serial No. 615,473, Apr. 22. Class 13.

Ambassador Coffee Co.: *See*—
Contos, Robert G.

American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Rope, cord, lines, etc. Serial No. 615,433, Apr. 22. Class 7.

Angle Fabrics Company, Inc., New York, N. Y. Woolen and worsted woven piece goods. Serial No. 594,751, Apr. 22. Class 42.

Andrews-Alderfer Processing Company, Incorporated, Akron, Ohio. Composite sheets of foamed rubber and fabric. Serial No. 602,738, Apr. 22. Class 50.

Armour and Company, doing business under the trade-style Friedman Manufacturing Company, Chicago, Ill. Vegetable and animal shortening. Serial No. 526,900, Apr. 22. Class 46.

Armstrong Cork Company, Lancaster, Pa. Enameled surface textured wall covering. Serial No. 618,200, Apr. 22. Class 20.

Army and Navy Publishing Company, Inc., Washington, D. C. Newspaper. Serial No. 584,380, Apr. 22. Class 38.

Associated Drawing Materials & Equipment Limited, London, England. Cardboard, pens, pencils, etc. Serial No. 570,035, Apr. 22. Class 37.

Atlantic Candy Company: *See*—
Favia, Dominic.

Atlantic Casualty Insurance Company, Newark, N. J. Underwriting of automobile liability, property damage, fire and theft, accident and health insurance. Serial No. 610,730, Apr. 22. Class 102.

Baltimore Porcelain Steel Corporation, Baltimore, Md. Porcelain enameled metallic fall coverings. Serial No. 610,357, Apr. 22. Class 12.

Bang Products Company, New Haven, Conn. Carbonated orange-flavored maltless soft drink. Serial Nos. 614,861–2, Apr. 22. Class 45.

Bankers Box Company, Chicago, Ill. Copyholders. Serial No. 620,137, Apr. 22. Class 23.

Banner Mountain Products, Inc., Grass Valley, Calif. Frozen sausages, frozen patties, and frozen meat loaves. Serial No. 619,441, Apr. 22. Class 46.

Barbee, Dorothy F., Little Rock, Ark. Hand made place cards. Serial No. 608,142, Apr. 22. Class 37.

Bates Manufacturing Company, Lewiston, Maine. Cotton piece goods. Serial No. 611,013, Apr. 22. Class 42.

Bates Manufacturing Company, Lewiston, Maine. Piece goods. Serial No. 621,938, Apr. 22. Class 42.

Batlin, L., & Son, Inc., New York, N. Y. Cigarette and cigar lighters and parts thereof. Serial No. 616,810, Apr. 22. Class 8.

Beam, James B., Distilling Co., Chicago, Ill. Whiskey. Serial No. 616,220, Apr. 22. Class 49.

Bell Company, Inc., The, Chicago, Ill. Automotive chemical preparations. Serial No. 606,069, Apr. 22. Class 6.

Bell & Gossett Company, Morton Grove, Ill. Flow control valves. Serial No. 612,582, Apr. 22. Class 13.

Bell & Gossett Company, Morton Grove, Ill. Adjustable valve. Serial No. 616,357, Apr. 22. Class 13.

Berner, Robert L., Company, Chicago, Ill. Unshelled nuts. Serial No. 612,197, Apr. 22. Class 46.

Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Woven pile fabric rugs and carpets. Serial Nos. 622,003–4, Apr. 22. Class 42.

Bothe, Walter E., Foods, Inc., Bloomington, Ill. Dressings for salad. Serial No. 619,870, Apr. 22. Class 46.

Boyle and Company, Los Angeles, Calif. Multiple vitamin and mineral tablets. Serial No. 617,433, Apr. 22. Class 18.

British Cod Liver Oils (Hull & Grimsby) Limited, Hull, England. Cod liver oil. Serial No. 590,135, Apr. 22. Class 46.

Brown, M. D., Company, Niles, Mich. Electric scoreboard. Serial No. 618,149, Apr. 22. Class 21.

Brown-Service Funeral Homes Company, Inc., Birmingham, Ala. Metal and wood burial caskets, and cases and boxes therefor. Serial No. 586,951, Apr. 22. Class 2.

Bulova Watch Company, Inc., New York, N. Y. Photographic recorder. Serial No. 573,525, Apr. 22. Class 26.

Burson Knitting Company, Rockford, Ill. Hosiery. Serial No. 533,987, Apr. 22. Class 39.

Calavo, Inc., Los Angeles, Calif. Natural, dried, candied, and fresh fruits. Serial No. 558,209, Apr. 22. Class 46.

California Underwear Corp., doing business under the style name of Le Jong Nylons, Dallas, Tex. Women's and girls' hosiery. Serial No. 613,836, Apr. 22. Class 39.

California Underwear Corp., doing business under the style name of Parkworth Nylons, Dallas, Tex. Hosiery. Serial No. 613,837, Apr. 22. Class 39.

California Underwear Corp., doing business under the style name of Tel-Trim Nylons, Dallas, Tex. Hosiery. Serial No. 613,838, Apr. 22. Class 39.

Canasta Beverage Company: *See*—
Sirex, John.

Capital Paper Company, Indianapolis, Ind. Parchment paper. Serial No. 576,683, Apr. 22. Class 37.

Caravan Products Co., Inc., New York, N. Y. Shortening compound. Serial No. 612,992, Apr. 22. Class 46.

Carbonaro, Dorothy M., doing business as Vita Laboratories, Auburn, N. Y. Formula for the treatment of arthritis. Serial No. 613,899, Apr. 22. Class 18.

Carbonaro, Dorothy M., doing business as Vita Laboratories, Auburn, N. Y. Formula for the treatment of coronary disease. Serial No. 613,900, Apr. 22. Class 18.

Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa. Bakery products. Serial No. 600,210, Apr. 22. Class 46.

Carstairs Bros. Distilling Co., Inc., New York, N. Y. Alcoholic beverages. Serial No. 608,237, Apr. 22. Class 49.

Carter Carburetor Corporation, St. Louis, Mo. Liquid fuel filters and parts thereof. Serial No. 619,800, Apr. 22. Class 31.

Catophrene Limited, London, England. Woven and knitted textile piece goods. Serial No. 594,023, Apr. 22. Class 42.

Central Fish and Oyster Co., Los Angeles, Calif. Frozen fresh shrimp, frozen fresh clam meat, and frozen fresh scallops. Serial No. 620,142, Apr. 22. Class 46.

Champion Seat Cover Co., Inc., Philadelphia, Pa. Seat covers for automobiles. Serial No. 590,302, Apr. 22. Class 19.

Chappius Company, Burbank, Calif. Dietary substitute. Serial No. 616,161, Apr. 22. Class 46.

Chattin Ditcher Company: *See*—
Chattin, Robert C.

Chattin, Robert C., doing business as Chattin Ditcher Company, Boise, Idaho. Ditchers, plows, ground-cultivating tools and parts thereof. Serial No. 580,769, Apr. 22. Class 23.

Chicago Roller Skate Company, Chicago, Ill. Roller skates. Serial No. 572,164, Apr. 22. Class 22.

Circle Record Co.: *See*—
Weiss, S. S.

Circle "S" Products Co., Inc., Chicago, Ill. Photographic camera and lamp holders. Serial No. 607,883, Apr. 22. Class 21.

Circle "S" Products Co., Inc., Chicago, Ill. Photographic lamp holders. Serial No. 610,410, Apr. 22. Class 21.

Citrus Products Company, Chicago, Ill. Chocolate flavored non-alcoholic maltless beverage mix. Serial No. 617,230, Apr. 22. Class 45.

Clinton Watch Co., Chicago, Ill. Watches and watch movements. Serial No. 612,444, Apr. 22. Class 27.

Clure, Claremont F., doing business as Delta Engineering Sales Company, Shreveport, La. Lubricant plug valves. Serial No. 580,644, Apr. 22. Class 13.

Cole, Joie W., Vandergrift, Pa. Dressings for salads, meats and fish. Serial No. 602,597, Apr. 22. Class 46.

Columbian Steel Tank Company, Kansas City, Mo. Electric switch cabinets, electric knockout boxes, and transformer cabinets. Serial No. 578,374, Apr. 22. Class 21.

Continental Merchandise Co., Inc., New York, N. Y. Pyrophoric cigarette and cigar lighters, ash trays, and cigarette boxes. Serial No. 607,581, Apr. 22. Class 8.

Contos, Robert G., doing business as Ambassador Coffee Co., Baltimore, Md. Coffee. Serial No. 618,885, Apr. 22. Class 46.

Cordo-Hyde Company, Brockton, Mass. Shoe strings, lacings and tapes. Serial Nos. 608,534–5, Apr. 22. Class 40.

Corona Corset Corp., Corona, N. Y. Ladies' and misses' brassières, corsets and corselettes. Serial No. 619,569, Apr. 22. Class 39.

Cribben and Sexton Company, Chicago, Ill. Stoves and ranges. Serial No. 591,149, Apr. 22. Class 34.

Crown Zellerbach Corporation, also doing business as National Paper Products Co. and Nata Products Company, San Francisco, Calif. Paper napkins, paper towels and toilet tissue. Serial No. 542,012, Apr. 22. Class 37.

Crown Zellerbach Corporation, San Francisco, Calif. Waxed paper bags. Serial No. 619,453, Apr. 22. Class 2.

Crustywise Pie Crust Co., Montebello, Calif. Prepared pie crust dough. Serial No. 615,054, Apr. 22. Class 46.

Custom Built Fixtures, Inc., Chicago, Ill. Merchandise display cases. Serial No. 609,030, Apr. 22. Class 32.

Dairland Food Laboratories, Inc., Waukesha, Wis. Enzyme preparations for flavoring and modifying the composition of foods, etc. Serial No. 575,753, Apr. 22. Class 46.

Da-Lite Screen Company, Inc., Chicago, Ill. Motion picture screens. Serial No. 619,925, Apr. 22. Class 26.

Davis Leather Company Limited, Newmarket, Ontario, Canada. Leather calf skins. Serial No. 606,758, Apr. 22. Class 1.

Davis & Thompson Company, West Allis, Wis. Metal working machines. Serial No. 606,456, Apr. 22. Class 23.

Dean, Robert J., doing business as Radio-Games Service, New York, N. Y. Advertising the goods and services of others by means of radio broadcasting programs. Serial No. 606,371, Apr. 22. Class 101.

Dearborn Motors Corporation, Highland Park, Mich. Grain drills, grass seeding attachments, etc. Serial No. 594,525, Apr. 22. Class 23.

Dearborn Motors Credit Corporation, Birmingham, Mich. Financing of retail and wholesale purchases of tractors and farm equipment. Serial No. 615,484, Apr. 22. Class 102.

De-Bug-Er, Inc., Madison, Wis. Electrically heated insecticide vaporizers. Serial No. 618,231, Apr. 22. Class 21.

Delta Engineering Sales Company: *See*—
Clure, Claremont F.

Design Fabricators, Inc., Chicago, Ill. Chairs. Serial No. 619,746, Apr. 22. Class 32.

Des Moines Co-Operative Dairy, Des Moines, Iowa. Dry skim milk. Serial No. 615,887, Apr. 22. Class 46.

Diamond Full-Fashioned Hosiery Co., Inc., High Point, N. C. and New York, N. Y. Women's hosiery. Serial No. 605,648, Apr. 22. Class 39.

Dickenson, Ralph W., doing business as Organic Service Co., Anaheim, Calif. Organic liquid preparation for improving the condition of the soil. Serial No. 614,427, Apr. 22. Class 10.

Dietetic Food Co., Inc., Brooklyn, N. Y. Diabetic food and ingredients of diabetic food products. Serial No. 605,470, Apr. 22. Class 46.

Dimare Bros., Boston and South Boston, Mass. Shelled and unshelled nuts. Serial No. 621,506, Apr. 22. Class 46.

Donahoe's Incorporated, Pittsburgh, Pa. Bread, candies, coffee, tea, etc. Serial No. 545,724, Apr. 22. Class 46.

Donahoe's Incorporated, Pittsburgh, Pa. Canned beans, fruit preserves. Serial No. 545,725, Apr. 22. Class 46.

Donahoe's Incorporated, Pittsburgh, Pa. Canned vegetables. Serial No. 545,726, Apr. 22. Class 46.

Dormalux Company, The: *See*—
Gugino, Carmelo, Jr.

Dorman, B., & Sons, Inc., Brooklyn, N. Y. Canned foods. Serial No. 602,753, Apr. 22. Class 46.

Dow Chemical Company, The, Midland, Mich. Weed killing composition. Serial No. 620,091, Apr. 22. Class 6.

Dublin, R. V., Company, The, Jacksonville and Laredo, Tex. Fresh vegetables. Serial No. 620,386, Apr. 22. Class 46.

Dunbar Glass Corporation, Dunbar, W. Va. Glass chimneys, shades, globes, etc., for use in electrical lighting fixtures and lamps, etc. Serial No. 607,320, Apr. 22. Class 21.

Dunlap, Arthur H., doing business as Dunlap Manufacturing Co., Seattle, Wash. Corner bead. Serial No. 596,657, Apr. 22. Class 12.

Dunlap Manufacturing Co.: *See*—
Dunlap, Arthur H.

Epi-Carve: *See*—
Walters, Alfred E.

Epstein, Joseph H., doing business under the name Bobbie Allen, Nashville, Tenn. Ladies', misses' and children's sportswear. Serial No. 610,051, Apr. 22. Class 39.

Eutectic Welding Alloys Corporation, New York, N. Y. Pickling metal cleanser. Serial No. 612,062, Apr. 22. Class 52.

Fabric Leather Corp., New York, N. Y. Plastic film sheets. Serial No. 617,869, Apr. 22. Class 1.

Facile Corporation, Paterson, N. J. Laminated sheets. Serial No. 585,374, Apr. 22. Class 37.

Favia, Dominic, doing business as Atlantic Candy Company, Brooklyn, N. Y. Hard candy on a stick. Serial No. 580,473, Apr. 22. Class 46.

Fiat Metal Manufacturing Company, Franklin Park, Ill. Shower cabinets, shower receptors, and shower accessories. Serial No. 611,510, Apr. 22. Class 13.

Fiebing Chemical Company, Milwaukee, Wis. Leather wax dressing and preservative. Serial No. 593,339, Apr. 22. Class 6.

Fischberg, Charles H., & Sons, New York, N. Y. Stainless steel kitchenware and flatware. Serial No. 610,171, Apr. 22. Class 23.

Flatstaff Foods, Perth Amboy, N. J. Toilet tissue, paper napkins, and paper towels. Serial No. 608,347, Apr. 22. Class 37.

Florida Air Coach, Inc., Miami Beach, Fla. Transportation of passengers and freight by aircraft. Serial No. 608,655, Apr. 22. Class 105.

Food Machinery and Chemical Corporation, San Jose, Calif. Preheaters, cookers and coolers. Serial No. 601,260, Apr. 22. Class 34.

Foote Mineral Company, Philadelphia, Pa. Chemicals. Serial No. 602,834, Apr. 22. Class 6.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 622,329, Apr. 22. Class 42.

France Laboratories, Inc., South San Francisco, Calif. Concentrated liquid shampoo. Serial No. 589,209, Apr. 22. Class 52.

Friedman Manufacturing Company: *See*—
Armour and Company.

Gardner Food Products Company: *See*—
Gardner, Wm. H.

Gardner, Wm. H., doing business as Gardner Food Products Company, Los Angeles, Calif. Bottled pickles, chili peppers, sandwich spread, etc. Serial No. 611,174, Apr. 22. Class 46.

Garin Company, The, Salinas, Calif. Fresh vegetables and fresh melons. Serial No. 620,667, Apr. 22. Class 46.

Garr, Inc., New York, N. Y. Sportswear. Serial No. 595,541, Apr. 22. Class 39.

General Coffee Company: *See*—
Scudders-Gale Grocer Company, The.

General Diaper Service Corp., New York and Elmhurst, N. Y. Diaper laundering service. Serial No. 593,407, Apr. 22. Class 103.

General Dyestuff Corporation, New York, N. Y. Chemicals. Serial No. 618,921, Apr. 22. Class 6.

General Tire & Rubber Company, The, Akron, Ohio. Plastic sheet material. Serial No. 616,630, Apr. 22. Class 1.

Gielow, J. J., & Sons, Inc., Detroit, Mich. Pickles. Serial No. 582,528, Apr. 22. Class 46.

Ginnel, Henry, & Co., New York, N. Y. Watches. Serial No. 617,190, Apr. 22. Class 27.

Given Manufacturing Co., Los Angeles, Calif. Electrically operated automatic dish washers. Serial No. 610,439, Apr. 22. Class 21.

Givens & Co.: *See*—
Givens, Dee R.

Givens, Dee R., doing business under the name of Givens & Co., Clarendon Hills, Ill. Children's eating sets. Serial No. 582,834, Apr. 22. Class 2.

Gold Cup Farms, Inc., Utica, N. Y. Cheese, butter, ice cream, etc. Serial No. 608,064, Apr. 22. Class 46.

Golding Bros. Company, Inc., New York, N. Y. Plastic coated sheets. Serial No. 580,058, Apr. 22. Class 50.

Goldsmith Bros., New York, N. Y. Filing cabinets. Serial No. 619,671, Apr. 22. Class 32.

Griffith Laboratories, Inc., The, Chicago, Ill. Powdered product for flavoring food. Serial No. 616,290, Apr. 22. Class 46.

Gugino, Carmelo, Jr., doing business as The Dormalux Company, Buffalo, N. Y. Furniture. Serial Nos. 619,015–16, Apr. 22. Class 32.

Gulf States Paper Corporation, Tuscaloosa, Ala. Paper bags. Serial No. 619,572, Apr. 22. Class 2.

Gundlach, G. P., & Co., Inc., Cincinnati, Ohio. Ice cream. Serial No. 597,607, Apr. 22. Class 46.

Gundlach, G. P., & Co., Inc., Cincinnati, Ohio. Ice cream. Serial No. 618,495, Apr. 22. Class 46.

Hale, E. M., and Company, Eau Claire, Wis. Books. Serial No. 616,634, Apr. 22. Class 38.

Hanes Hosiery Mills Company, Winston-Salem, N. C., and New York, N. Y. Ladies' hosiery. Serial No. 613,988. Apr. 22. Class 39.

Haughton, Forrest V., San Francisco, Calif. Batter. Serial No. 606,380, Apr. 22. Class 46.

Hayward Hosiery Company, Ipswich, Mass. Women's and girls' hosiery. Serial No. 617,149, Apr. 22. Class 39.

Hearn Department Stores, Inc., New York, N. Y. Wines. Serial No. 609,445, Apr. 22. Class 47.

Hearst Corporation, The, New York, N. Y. Magazine feature or section. Serial No. 616,031, Apr. 22. Class 38.

Hearst Publishing Company, Inc., Wilmington, Del., and San Francisco, Calif. Newspaper section. Serial No. 613,572, Apr. 22. Class 38.

Heat Exchangers, Inc., Chicago, Ill. Refrigerating type liquid coolers. Serial No. 607,288, Apr. 22. Class 31.

Heli-Coil Corporation, Danbury, Conn. Gages. Serial No. 620,213, Apr. 22. Class 26.

Helpy Selfy Service System, Inc., Fort Lauderdale, Fla. Clothes washing machines. Serial No. 614,251, Apr. 22. Class 24.

Hempel, A., Trading, Inc., New York, N. Y. Black currant syrup. Serial No. 615,387, Apr. 22. Class 46.

Henney Motor Company, Inc., Freeport, Ill. Motor driven ambulances, hearses, funeral coaches, etc. Serial No. 579,976, Apr. 22. Class 19.

Hercules Powder Company, Wilmington, Del. Fortified rosin size. Serial No. 618,965, Apr. 22. Class 6.

Hess, Goldsmith & Co., Inc., New York, N. Y. Nylon cloth. Serial No. 572,973, Apr. 22. Class 42.

Hettrick Manufacturing Company, The, Toledo, Ohio. Dinette tables and chairs. Serial No. 577,266, Apr. 22. Class 32.

Hex Chili Manufacturing Co.: *See*—
Hoeck, Frederick T.

Hickman, Alma P., Decatur, Ga. Cloth dolls. Serial No. 605,586, Apr. 22. Class 22.

Hodges, Lynn E., Topeka, Kans. Providing religious guidance and stimulating interest in Christianity, etc. Serial No. 597,077, Apr. 22. Class 107.

Hoeck, Frederick T., doing business as Hex Chili Manufacturing Co., and La Fiesta Chili Co., Kansas City, Mo. Chile con carne with beans. Serial No. 576,207, Apr. 22. Class 46.

Holly Sugar Corporation, Colorado Springs, Colo. Sugar. Serial No. 617,029, Apr. 22. Class 46.

Hot-Rod Co., Ltd., Los Angeles, Calif. Bicycle accessories. Serial No. 595,139, Apr. 22. Class 19.

Hudnut, Richard, New York, N. Y. Non-electric curlers. Serial No. 612,328, Apr. 22. Class 40.

Industrial Chemical Laboratories, Inc., Omaha, Nebr. Powdered, liquid and cake soaps; cleaning compounds; and sweeping compounds; etc. Serial No. 613,512, Apr. 22. Class 52.

Infant Aids Incorporated, Los Angeles, Calif. Stainless steel check valve. Serial No. 608,069, Apr. 22. Class 44.

Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Stuffing boxes for hydraulic pumps. Serial No. 618,260, Apr. 22. Class 23.

Inter-Collegiate Press, Inc., Kansas City, Mo. Printed and engraved school graduation announcements, diplomas, year books, etc. Serial No. 617,993, Apr. 22. Class 38.

Japan America Trading Agency, Inc., Los Angeles, Calif. Sewing machines. Serial No. 610,908, Apr. 22. Class 23.

Jess Ranch: *See*—
Jess Stoddard.

Jess Stoddard doing business as Jess Ranch, Victorville, Calif. Fresh frozen trout. Serial No. 618,889, Apr. 22. Class 46.

Kamenstein, M., Inc., Maspeth, N. Y. Certain receptacles made from sheet metal. Serial No. 612,262, Apr. 22. Class 2.

Keith & Grifman, Boston, Mass. Jewelry. Serial No. 608,610, Apr. 22. Class 28.

Kelley, Ralph D., Paint Company, Chicago, Ill. House paint. Serial No. 615,781, Apr. 22. Class 16.

Keokuk Canning Co., Keokuk, Iowa. Canned pickles and canned tomatoes. Serial No. 592,570, Apr. 22. Class 46.

Kimbriel & Company, Inc., Pharr, Tex. Fresh citrus fruits. Serial No. 602,321, Apr. 22. Class 46.

Knapp-Monarch Company, St. Louis, Mo. Dispensers of the aerosol type containing insecticide. Serial No. 604,914, Apr. 22. Class 6.

Knight, George C., Company, The, Detroit, Mich. Rear view mirrors. Serial No. 581,135, Apr. 22. Class 19.

Kolber, Marilyn B., Chicago, Ill. Newspaper column. Serial No. 579,981, Apr. 22. Class 38.

Kress, S. H., and Company, New York, N. Y. Men's hosiery. Serial No. 613,817, Apr. 22. Class 39.

Kress, S. H., and Company, New York, N. Y. Writing tablets, albums, composition books, etc. Serial No. 617,085, Apr. 22. Class 37.

Kubly, Raymond R., doing business under the name and style of The Swiss Colony, Monroe, Wis. Cheese. Serial No. 613,298, Apr. 22. Class 46.

Kurfees, J. F., Paint Company: *See*—
Kurfees Paint Co.

Kurfees Paint Co., Louisville, Ky., by change of name from J. F. Kurfees Paint Company. Prepared or ready-mixed liquid undercoat paints. Serial No. 535,543, Apr. 22. Class 16.

Lafayette Coal Company, Chicago, Ill. Coal. Serial No. 598,728, Apr. 22. Class 1.

La Fiesta Chili Co.: *See*—
Hoeck, Frederick T.

Lass O'Scotland, Ltd., New York, N. Y. Knitted skirts, suits, dresses, etc. Serial No. 617,447, Apr. 22. Class 39.

Lee Paper Company, Vicksburg, Mich. Smooth calendered rag content paper. Serial No. 519,201, Apr. 22. Class 37.

Lee, William R., Limited, Heywood, England. Towels, bath mats, bath sheets, etc. Serial No. 574,845, Apr. 22. Class 42.

Lehmann, J. M., Company, Inc., Lyndhurst, N. J. Metal rolls. Serial No. 578,879, Apr. 22. Class 23.

Lehon Company, The, Chicago, Ill. Crowbars, pinch bars, wrecking bars, etc. Serial No. 520,735, Apr. 22. Class 23.

Le Jong Nylons: *See*—
California Underwear Corp.

Lilly, Eli, and Company, Indianapolis, Ind. Medicinal preparation. Serial Nos. 617,585–6, Apr. 22. Class 18.

Lindsay Co-Operative Citrus Association, Lindsay, Calif. Fresh citrus fruits. Serial No. 570,621, Apr. 22. Class 46.

Logan Co., Louisville, Ky. Innerspring mattresses. Serial Nos. 618,807–8, Apr. 22. Class 32.

Lubin-Weeker Co., Inc., New York, N. Y. Men's pajamas. Serial No. 606,875, Apr. 22. Class 39.

Lyon, Incorporated, Detroit, Mich. Ornamental discs or rings for automobile wheels. Serial Nos. 506,819–20, Apr. 22. Class 19.

M & R Dietetic Laboratories, Inc., Columbus, Ohio. Chocolate flavored beverage making powder; and canned evaporated milk. Serial No. 617,089, Apr. 22. Class 46.

Madison Research Laboratory, Pasadena, Calif. Oral treatment of eczema and allergic dermatitis. Serial No. 608,505, Apr. 22. Class 18.

Major Distributing Company, Salinas, Calif. Fresh vegetables. Serial No. 620,220, Apr. 22. Class 46.

Marathon Corporation, Rothschild, Wis. Paper cartons. Serial No. 615,784, Apr. 22. Class 2.

Marbon Corporation, Gary, Ind. Synthetic resins. Serial No. 613,414, Apr. 22. Class 6.

Marlun Manufacturing Co., Inc., New York, N. Y. Electric broilers and roasters. Serial No. 617,668, Apr. 22. Class 21.

Marshall, C. & E., Company, Chicago, Ill. Hermetically sealed plastic envelope-like containers. Serial No. 615,876, Apr. 22. Class 2.

Massengill, S. E., Company, The, Bristol, Tenn. Pharmaceutical preparation. Serial No. 596,582, Apr. 22. Class 18.

Matsumoto Brothers, Niland, Calif. Fresh vegetables. Serial No. 612,407, Apr. 22. Class 46.

McBee Company, The, Athens, Ohio. Stationery. Serial No. 543,625, Apr. 22. Class 37.

McGraw Electric Company, Milwaukee, Wis. Periodical publication. Serial No. 617,545, Apr. 22. Class 38.

Meadowmoor Dairies, Inc., Chicago, Ill. Modified skimmed milk. Serial No. 618,809, Apr. 22. Class 46.

Men's Hats, Incorporated, Baltimore, Md. Monthly publication. Serial No. 603,803, Apr. 22. Class 38.

Milner Products Company, Jackson, Miss. Chemical preparation. Serial No. 615,337, Apr. 22. Class 6.

Milwaukee Chaplet & Mfg. Co., Milwaukee, Wis. Foundry parting compound. Serial No. 616,799, Apr. 22. Class 1.

Miron Mills, Inc., Clinton, Mass. Wool fabrics in the piece. Serial No. 622,400, Apr. 22. Class 42.

Miron Mills, Inc., Clinton, Mass. Wool fabrics in the piece. Serial No. 622,402, Apr. 22. Class 42.

Model-Etts Corp., New York, N. Y. Medicinal tablets. Serial No. 617,549, Apr. 22. Class 18.

Modern Upholstered Chair Company Inc., Morristown, Tenn. Chairs. Serial No. 608,282, Apr. 22. Class 32.

Monsanto Chemical Company, St. Louis, Mo. Synthetic resins in the nature of paints, varnishes or lacquers. Serial No. 566,639, Apr. 22. Class 16.

Montag Brothers, Inc., Atlanta, Ga. Boxed papeteries, open stock paper and correspondence or mailing envelopes. Serial Nos. 616,962–4, Apr. 22. Class 37.

Moran Truck and Implement Company, Durant, Okla. Seed. Serial No. 616,830, Apr. 22. Class 1.

Morton Salt Company, Chicago, Ill. Salt spools. Serial No. 582,182, Apr. 22. Class 46.

Nata Products Company: *See*—
Crown Zellerbach Corporation.

National Bakers Services, Inc., Chicago, Ill. Bread. Serial No. 618,550, Apr. 22. Class 46.

National Paper Products Co.: *See*—
Crown Zellerbach Corporation.

New England Grain Products Co., Yarmouth, Maine. Dog, fox and mink foods. Serial No. 556,117, Apr. 22. Class 46.

Nizich, Jerry, Portland, Oreg. Fish food. Serial No. 613,955, Apr. 22. Class 46.

Nolde and Horst Company, The, Reading, Pa. Men's and boys' hosiery. Serial No. 619,210, Apr. 22. Class 39.

Olympia Canning Company, Olympia, Wash. Canned fruits. Serial No. 535,867, Apr. 22. Class 46.

Organic Service Co.: *See*—
Dickenson, Ralph W.

Paint Products Corporation, Elgin, Ill. Paint, varnish and lacquers. Serial No. 577,680, Apr. 22. Class 16.

Paraderm Laboratories, Inc., Boston, Mass. Ointment. Serial No. 599,111, Apr. 22. Class 18.

Parfumerie Provencal, Inc., New York, N. Y. Perfumes, colognes, toilet waters, etc. Serial No. 601,273, Apr. 22. Class 51.

Parkworth Nylons: *See*—
California Underwear Corp.

Pascal System, Inc., Chicago, Ill. Rental of automotive vehicles. Serial No. 618,214, Apr. 22. Class 105.

Peters, Leo, doing business under the name of Leo Peters' Fine Foods, Evanston, Ill. Oleomargarine, butter, ice cream, etc. Serial No. 609,696, Apr. 22. Class 46.

Peters', Leo, Fine Foods: *See*—
Peters, Leo.

Petersohn, Ralph, Norristown, Pa. Partially printed forms. Serial Nos. 615,569–70, Apr. 22. Class 37.

Philadelphia and Reading Coal and Iron Company, The, Philadelphia, Pa. Coal. Serial No. 617,909, Apr. 22. Class 1.

Photocircuits Corporation, Glen Cove, N. Y. Electric circuit components. Serial No. 613,945, Apr. 22. Class 21.

Pioneer Suspender Company, Darby, Pa. Men's and boys' pajamas. Serial No. 618,713, Apr. 22. Class 39.

Pohatcong Hosiery Mills, Washington, N. J. Hosiery. Serial No. 583,133, Apr. 22. Class 39.

Pollock Paper Corporation, Dallas, Tex. Waxed wrapping paper. Serial No. 619,357, Apr. 22. Class 37.

Ponemah Mills, Taftville, Conn. Rayon piece goods and cotton piece goods. Serial No. 621,981, Apr. 22. Class 42.

Precision Automotive Components Co., St. Louis, Mo. Carburetor repair parts. Serial No. 613,345, Apr. 22. Class 23.

Printing Equipment Corporation, Joliet, Ill. Printing equipment. Serial No. 569,173, Apr. 22. Class 23.

Probst & Co., Langnau, Switzerland. Cheese. Serial No. 572,692, Apr. 22. Class 46.

Procter & Gamble Company, The, Cincinnati, Ohio. Soap. Serial No. 588,885, Apr. 22. Class 52.

Pyramid Rubber Company, The, Ravenna, Ohio. Nursing bottles, complete nursers, etc. Serial No. 621,606, Apr. 22. Class 44.

Queen Valley Fabrics, Inc., Cumberland, R. I. Rayon marquisette household window curtains and rayon marquisette piece goods. Serial No. 579,621, Apr. 22. Class 42.

Radio-Games Service: *See*—
Dean, Robert J.

Raleigh Cycle Co. Limited, The, Nottingham, England. Bicycles. Serial No. 599,019, Apr. 22. Class 19.

Redwood Food Packing Company: *See*—
S and W Fine Foods, Inc.

Revelation Supplies Limited, Chiswick, London, England. Suitcases, week-end cases, wardrobe trunks, etc. Serial No. 605,058, Apr. 22. Class 3.

Rice Research Laboratories: *See*—
Rice, William W.

Rice, William W., doing business as Rice Research Laboratories, Chicago, Ill. Plastic drinking cups. Serial No. 611,490, Apr. 22. Class 2.

Robertson, H. H., Company, Pittsburgh, Pa. Protected sheet-metal electric wiring conduits. Serial No. 549,002, Apr. 22. Class 21.

Rokeach, I., & Sons, Inc., Brooklyn, N. Y. Tomato soup, barley and mushroom soup, etc. Serial No. 596,195, Apr. 22. Class 46.

Ross, Sydney, Co., The, Newark, N. J. Effervescent analgesic preparation. Serial No. 614,717, Apr. 22. Class 18.

S and W Fine Foods, Inc., doing business as Redwood Food Packing Company, San Francisco, Calif. Unshelled mixed nuts. Serial No. 618,862, Apr. 22. Class 46.

Saint of Sloane Street, Inc., New York, N. Y. Furniture polishing wax. Serial Nos. 614,724–5, Apr. 22. Class 4.

Saluda Corporation, New York, N. Y. Men's shorts. Serial No. 603,860, Apr. 22. Class 39.

Sanitary Mattress Company, Los Angeles, Calif. Mattresses. Serial No. 616,189, Apr. 22. Class 32.

Schenley Distillers Corporation, also trading as Weston Winery, assignor, by mesne assignments, to Schenley Industries, Inc., New York, N. Y. Wines. Serial No. 546,536, Apr. 22. Class 47.

Schenley Industries, Inc.: *See*—
Schenley Distillers Corporation.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' and children's princess slips, bloomers, pajamas, etc. Serial No. 599,123, Apr. 22. Class 39.

Schneierson, I., & Sons, Inc., New York, N. Y. Ladies' and children's slips. Serial No. 616,513, Apr. 22. Class 39.

Schwartz, I., Glass & Mirror Co.: *See*—
Schwartz, Isidor.

Schwartz, Isidor, doing business as I. Schwartz Glass & Mirror Co., New York, N. Y. Decorated mirrors. Serial No. 618,599, Apr. 22. Class 32.

Scott & Williams, Incorporated, Laconia, N. H. Nylon hosiery for women. Serial No. 613,738, Apr. 22. Class 39.

Scudders-Gale Grocer Company, The, also trading as General Coffee Company, St. Louis, Mo. Coffee. Serial No. 609,220, Apr. 22. Class 46.

Seal-Peel, Inc., New York, N. Y., and Van Dyke City, Mich. Treating articles of manufacture of others with a plastic protective coating for shipping and storage. Serial No. 624,058, Apr. 22. Class 103.

Selected Specialties Co., Kansas City, Kans. Infants' and juveniles' chairs. Serial No. 615,353, Apr. 22. Class 32.

Shanblum, Sarah G., Fort Worth, Tex. Frozen waffle batter mix. Serial No. 606,985, Apr. 22. Class 46.

Short, J. R., Milling Company, Chicago, Ill. Flake hominy. Serial No. 619,265, Apr. 22. Class 46.

Shulton, Inc., Clifton, N. J., and New York, N. Y. Synthetic detergent. Serial No. 600,355, Apr. 22. Class 52.

Sirex, John, doing business as Canasta Beverage Company, San Francisco, Calif. Non-alcoholic maltless beverage mixers. Serial No. 586,020, Apr. 22. Class 45.

Smith Victory Corporation, Buffalo, N. Y. Hair nets. Serial No. 618,309, Apr. 22. Class 39.

Smokador Manufacturing Co., Inc., Bloomfield, N. J. Smoking stands. Serial No. 600,991, Apr. 22. Class 32.

Société à Responsabilité Limitée: Quirin & Cie, Luxeuil-Les-Bains (Haute-Saône), France. Statuettes of piety in metal. Serial No. 607,563, Apr. 22. Class 50.

Sondon Systems Corporation, Red Bank, N. J. Index card tabs. Serial No. 608,226, Apr. 22. Class 37.

South Bend Bait Company, South Bend, Ind. Fishing tackle. Serial No. 600,400, Apr. 22. Class 22.

South West Africa Fishing Industries Limited, Cape Town, Union of South Africa. Canned shell fish. Serial No. 579,840, Apr. 22. Class 46.

Specialty Mfg. and Sales Co., Baton Rouge, La. Non-alcoholic maltless soft drinks. Serial No. 605,239, Apr. 22. Class 45.

Sporting Goods Publishing Company, The, St. Louis, Mo. Yearly directory. Serial No. 608,768, Apr. 22. Class 38.

Springdale Shellac Company, Inc., The, Springdale, Conn. Shellac products. Serial No. 618,824, Apr. 22. Class 16.

Spruso Company, Redfern, Australia., Hair dressings, liquid brilliantine, a hair preparation consisting of liquid brilliantine and crystallized brilliantine, etc. Serial No. 603,261, Apr. 22. Class 51.

Spuntex Mills, Inc., New York, N. Y. Rayon piece goods. Serial No. 617,421, Apr. 22. Class 42.

Standard Brands Incorporated, New York, N. Y. Oleomargarine. Serial No. 601,957, Apr. 22. Class 46.

Standard Chemical Works Company, The, Columbus, Ohio. Acidic laundry compound. Serial No. 600,456, Apr. 22. Class 6.

Standard Gage Company, Inc., Poughkeepsie, N. Y., and elsewhere. Limit gages. Serial No. 595,637, Apr. 22. Class 26.

Star-maid Dresses, Inc., New York, N. Y. Women's dresses, skirts and suits. Serial No. 601,958, Apr. 22. Class 39.

Sterling Industries, Inc., Dallas, Tex. Anti-corrosive or corrosion inhibitor. Serial No. 607,780, Apr. 22. Class 6.

Straus, Royer & Strass, Inc., Baltimore, Md. Misses', women's, and children's dresses, separate skirts, outer shorts, etc. Serial No. 614,068, Apr. 22. Class 39.

Straus, Royer & Strass, Inc., Baltimore, Md. Misses', women's, and children's dresses, playsuits, separate skirts, etc. Serial No. 614,069, Apr. 22. Class 39.

Sun Rubber Company, The, Barberton, Ohio. Dolls. Serial No. 597,920, Apr. 22. Class 22.

Swiss Colony, The: *See*—
Kubly, Raymond R.

Talon Tools, North Arlington, N. J. Flaring tools, soil pipe cutters, soil pipe vises, etc. Serial No. 610,473, Apr. 22. Class 23.

Tel-Trim Nylons: *See*—
California Underwear Corp.

Texas Brags—World's Finest Foods, Inc., Dallas, Tex. Fruit cakes. Serial No. 602,980, Apr. 22. Class 46.

Topco Associates, Inc., Chicago, Ill. Canned and frozen sweet peas and tea. Serial No. 615,583, Apr. 22. Class 46.

Tranel, Inc., New York, N. Y. Lingerie. Serial No. 618,105, Apr. 22. Class 39.

Triantafillu, Harry D., White Plains, N. Y. Polish. Serial No. 592,528, Apr. 22. Class 4.

Tropical Paint & Oil Company, Cleveland, Ohio. Ready mixed air drying enamels. Serial No. 572,606, Apr. 22. Class 16.

United Grocers, Ltd., San Francisco, Calif. Column for publications. Serial No. 617,327, Apr. 22. Class 38.

United States Bedding Company, St. Paul, Minn. Mattresses, box springs, upholstery cushions, etc. Serial No. 619,660, Apr. 22. Class 32.

United States Rubber Company, New York, N. Y. Cellular plastic material. Serial No. 599,723, Apr. 22. Class 1.

Upjohn Company, The, Kalamazoo, Mich. Antibiotic veterinary ointment. Serial No. 617,565, Apr. 22. Class 18.

Valdale Company, Inc., The, Asheville, N. C. Electric blankets, comforters, sheets, etc. Serial No. 610,876, Apr. 22. Class 21.

Van Cleef Bros., Inc., Chicago, Ill. Electrician's tape. Serial No. 604,170, Apr. 22. Class 21.

Van Dee Food Products: *See*—
Vandestel, Richard A.

Vandestel, Richard A., doing business as Van Dee Food Products, Irvington, N. J. Mayonnaise, salad dressing, Worcestershire sauce, etc. Serial No. 601,812, Apr. 22. Class 46.

Ventura Farms Frozen Foods, Inc., Oxnard, Calif. Frozen vegetables. Serial No. 543,547, Apr. 22. Class 46.

Victor Equipment Company, San Francisco, Calif. Air filters. Serial No. 595,174, Apr. 22. Class 31.

Visor Pak Tissue Company, Herkimer, N. Y. Paper boxes filled with facial tissues. Serial No. 617,067, Apr. 22. Class 37.

Vita Laboratories: *See*—
Carbonaro, Dorothy M.

Walker, William S., El Monte, Calif. Artificial fishing lures. Serial No. 600,521, Apr. 22. Class 22.

Walters, Alfred E., doing business as Epi-Carve, Seattle, Wash. Knives. Serial No. 617,827, Apr. 22. Class 23.

Weiss, S. S., doing business as Circle Record Co., San Francisco, Calif. Grooved phonograph records. Serial No. 609,014, Apr. 22. Class 36.

Welch Grape Juice Company, The, Westfield, N. Y. Grape wine. Serial No. 608,184, Apr. 22. Class 47.

Wella Corporation, The, New York, N. Y. Preparation for reconditioning and tinting the hair. Serial No. 614,323, Apr. 22. Class 51.

Wenzel, H., Tent & Duck Co., St. Louis, Mo. Water bags. Serial No. 609,015, Apr. 22. Class 2.

Wergeland Company, Chevy Chase, Md. Prepared edible nuts. Serial No. 615,425, Apr. 22. Class 46.

Western Tablet & Stationery Corporation, Dayton, Ohio. Papeteries. Serial No. 526,026, Apr. 22. Class 37.

Weston Winery: *See*—
Schenley Distillers Corporation.

White, Bob, Chicago, Ill. Canned conch chile con carne, conch chowder, and conch juice. Serial No. 621,242, Apr. 22. Class 46.

White-Haines Optical Company, The, Columbus, Ohio. Prescription service. Serial No. 617,739, Apr. 22. Class 100.

Wilbert Products Co., Inc., New York, N. Y. Furniture polish. Serial No. 612,716, Apr. 22. Class 4.

Wilkins, John H., Company, Washington, D. C. Roasted coffee. Serial No. 606,835, Apr. 22. Class 46.

Wilkins, William B., Palm Beach, Fla. Partially printed hospital charts. Serial No. 614,231, Apr. 22. Class 37.

Wilmington Hosiery Mills, Inc., Wilmington, Del. Socks. Serial No. 620,641, Apr. 22. Class 39.

Wil-Nes Mfg. Co., New York, N. Y. Fish bowl or miniature aquarium. Serial No. 563,540, Apr. 22. Class 33.

Wine Growers Guild, Lodi, Calif. Brandy. Serial No. 608,581, Apr. 22. Class 49.

Wood, Walter F., Jr., Holliston, Mass. Hatching eggs and baby chicks. Serial No. 616,931, Apr. 22. Class 1.

Worcester Toy Co., Inc., Worcester, Mass. Cups, saucers, plates, etc. Serial No. 579,377, Apr. 22. Class 2.

Zimmerman, Ernest, Dover, Del. Raw potatoes. Serial No. 611,117, Apr. 22. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Acheson Colloids Corporation: *See*—
Acheson Oildag Company.

Acheson Oildag Company to Acheson Colloids Corporation, Port Huron, Mich. Colloidal graphite. 294,808, renewed June 7, 1952. O. G. Apr. 22. Class 6.

Acme Backing Corporation, Brooklyn, N. Y. Packaging material consisting of aluminum foil. 557,980, Apr. 22; Serial No. 608,691, published Jan. 22, 1952. Class 14.

Acme Quality Paints, Inc.: *See*—
Acme White Lead & Color Works.

Acme White Lead & Color Works, to Acme Quality Paints, Inc., Detroit, Mich. Ready mixed paints, semi-liquid paints, paste paints, etc. 291,120, renewed Jan. 26, 1952. O. G. Apr. 22. Class 16.

Adam's Perfumes, Inc., New York, N. Y. Perfumes, cologne, toilet waters. 557,925, Apr. 22; Serial No. 602,481, published Jan. 8, 1952. Class 51.

Aderhold, George, doing business as Saxonburg Potteries, Saxonburg, Pa. Producing ceramic, porcelain and refractory articles to customer's specifications. 558,109, Apr. 22; Serial No. 585,006, published Jan. 29, 1952. Class 106.

Aktiengesellschaft Chocolat Tobler, also trading as Chocolat Tobler, Limited, and Société Anonyme Chocolat Tobler, Berne, Switzerland. Chocolate. 557,828, Apr. 22; Serial No. 572,823, published Jan. 29, 1952. Class 46.

Alannize Enterprises, New York, N. Y. Hair cream. 557,903, Apr. 22; Serial No. 600,206, published Dec. 25, 1951. Class 51.

Allen Advertising Agency, Inc., Chicago, Ill. Advertising service. 558,114–15, Apr. 22; Serial Nos. 611,465–6, published Jan. 1, 1952. Class 101.

Allen Ranches, Incorporated, Phoenix, Ariz. Fresh watermelons. 558,080, Apr. 22; Serial No. 615,598, published Jan. 22, 1952. Class 46.

Allied American Export Co.: *See*—
Hatchadourian, Matthew.

Allied Chemical & Dye Corporation, New York, N. Y. Roofing cement, bituminous base coating compositions, etc. 557,927, Apr. 22; Serial No. 602,875, published Jan. 15, 1952. Class 12.

Allied Mills, Inc., Chicago, Ill. Pig and hog feed. 558,055, Apr. 22; Serial No. 613,959, published Jan. 8, 1952. Class 46.

All-Sil Welding Metals, Inc., New York, N. Y. Metal hardening compositions. 558,075, Apr. 22; Serial No. 614,920, published Jan. 29, 1952. Class 6.

All-Sil Welding Metals, Inc., New York, N. Y. Anti-spattering compositions for welding. 558,076, Apr. 22; Serial No. 614,921, published Jan. 29, 1952. Class 6.

Altman, B., & Co., New York, N. Y. Ladies' handbags. 558,014, Apr. 22; Serial No. 612,293, published Jan. 15, 1952. Class 3.

Altorfer Bros. Company, Peoria, Ill. Clothes washing machines and ironers. 557,838, Apr. 22; Serial No. 577,921, published Jan. 29, 1952. Class 24.

American Asphalt Roof Corporation, Kansas City, Mo. Roofing cement. 557,968, Apr. 22; Serial No. 606,745, published Jan. 8, 1952. Class 12.

American Safety Razor Corporation, Brooklyn, N. Y. Razor blades. 294,193–4, renewed May 24, 1952. O. G. Apr. 22. Class 23.

American Smoked Cheese Company, Brooklyn, N. Y. Smoked cheese. 397,039, Aug. 11, 1942. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 46.

American Steel and Wire Company of New Jersey, The, Cleveland, Ohio, now by merger United States Steel Company. Electrical wires and cables. 558,012, Apr. 22; Serial No. 612,108, published Feb. 5, 1952. Class 21.

Anderson, Milton, Co., Atlantic City, N. J. Canned fruits, canned vegetables, canned fish, etc. 557,973, Apr. 22; Serial No. 607,974, published Feb. 5, 1952. Class 46.

Animal Trap Company of America, Lititz, Pa. Snares. 557,860, Apr. 22; Serial No. 587,577, published Jan. 8, 1952. Class 50.

Ansehl, Benjamin, doing business as The Benjamin Ansehl Company, University City, to The Benjamin Ansehl Company, St. Louis, Mo. Toilet articles, preparations, and products. 294,061, renewed May 17, 1952. O. G. Apr. 22. Class 51.

Ansehl, Benjamin, Company, The: *See*—
Ansehl, Benjamin.

Arcady Farms Milling Company, Chicago, Ill. Compounded chicken feed. 557,832, Apr. 22; Serial No. 575,032, published Nov. 27, 1951. Class 46.

Arden, Elizabeth, Sales Corporation, New York, N. Y. Rouge and eyeshadow. 557,846, Apr. 22; Serial No. 581,236, published Jan. 15, 1952. Class 51.

Armour and Company, doing business under the trade style Columbus Packing Company, Chicago, Ill. Hams, bacon, sausage, etc. 557,800, Apr. 22; Serial No. 540,362, published Jan. 22, 1952. Class 46.

Armour and Company, Chicago, Ill. Dry sausage. 558,040, Apr. 22; Serial No. 613,487, published Jan. 22, 1952. Class 46.

Arrow Upholstery Company, The, New York, N. Y. Sofas, tailored chairs, divans, etc. 557,932–4, Apr. 22; Serial Nos. 603,429–31, published Jan. 29, 1952. Class 32.

Ateliers de Constructions Electriques de Charleroi, Brussels and Charleroi, Belgium. Electronic generators of electrical impulses. 558,083, Apr. 22; Serial No. 616,356, published Jan. 29, 1952. Class 21.

Atlantic Commission Company, Inc., New York, N. Y. Fresh vegetables, unpopped popcorn, fresh fruits, etc. 558,044, Apr. 22; Serial No. 613,624, published Jan. 29, 1952. Class 46.

Atlantic Seafood Packers, Inc., to The Ploeger-Abbott Company, Darien, Ga. Canned seafoods. 294,965, renewed June 14, 1952. O. G. Apr. 22. Class 46.

Automatic Button Company, Muscatine, Iowa. Plastic buttons and cuff links. 558,154, Apr. 22; Serial No. 607,065. Class 40.

Automatic Washer Company, Newton, Iowa. Domestic laundry equipment. 558,125, Apr. 22; Serial No. 578,131. Class 24.

Ayres and Roberts, doing business under the fictitious name and style of Quality Frozen Co., San Francisco, Calif. Frozen green peas. 558,085, Apr. 22; Serial No. 616,538, published Feb. 5, 1952. Class 46.

B & B Engineering Corporation, Norwood, La. Fire alarm telegraph boxes, switchboards and recording instruments, etc. 558,052, Apr. 22; Serial No. 613,896, published Jan. 22, 1952. Class 21.

B. & T. Metals Company, The, Columbus, Ohio. Metal trims. 557,849, Apr. 22; Serial No. 581,930, published Dec. 25, 1951. Class 12.

Balaban and Katz Corporation, Chicago, Ill. Entertainment service. 558,119, Apr. 22; Serial No. 591,606, published Jan. 29, 1952. Class 107.

Barkin, Levin, & Co. Inc., New York, N. Y. Silks, woolens, cotton, rayon and combination silk and rayon piece goods. 378,601, June 11, 1940. Republished Apr. 22. Class 42.

Barnes Manufacturing Co., Mansfield, Ohio. Centrifugal pumps, self priming centrifugal pumps, diaphragm pumps, etc. 557,998, Apr. 22; Serial No. 611,069, published Nov. 20, 1951. Class 23.

Barron-Gray Packing Company: *See*—
Hawaiian Pineapple Company, Limited.

Barrow, John G., Jr., doing business as The Old Oaken Bucket, New Smyrna Beach, Fla. Bottled citrus fruit juices and honey. 558,127, Apr. 22; Serial No. 582,765. Class 46.

Baur, O. P., Confectionery Company, The, Denver, Colo. Candy. 557,836, Apr. 22; Serial No. 576,896, published Jan. 29, 1952. Class 46.

Baur, O. P., Confectionery Company, The, Denver, Colo. Candies. 557,869–70, Apr. 22; Serial Nos. 589,946–7, published Jan. 22, 1952. Class 46.

Benay Albee Novelty Co., Brooklyn, N. Y. Boys' novelty felt hats and felt caps. 557,829, Apr. 22; Serial No. 573,755, published Jan. 15, 1952. Class 39.

Berelson, D. B., & Co., San Francisco, Calif. Canned fish and frozen fresh fish. 558,174, Apr. 22; Serial No. 619,496. Class 46.

Ber-Tais Apparel Shop, Chicago, Ill. Men's, women's and children's wearing apparel. 557,961, Apr. 22; Serial No. 605,711, published Jan. 15, 1952. Class 39.

Best Food Products Company, Milwaukee, Wis. Potato salad dressing. 557,888, Apr. 22; Serial No. 593,707, published Feb. 5, 1952. Class 46.

Billings & Spencer Company, The, Hartford, Conn. Golf clubs. 290,638, renewed Jan. 12, 1952. O. G. Apr. 22. Class 22.

Blair Products, Detroit, Mich. Granulated or powdered refractory materials. 557,981, Apr. 22; Serial No. 608,697, published Jan. 8, 1952. Class 12.

Bliss, E. W., Company, Detroit, Mich., and Toledo, Ohio. Hydraulic working presses. 557,796, Apr. 22; Serial No. 533,663, published Dec. 18, 1951. Class 23.

Blousemodes, Inc., New York, N. Y. Blouses. 558,123, Apr. 22; Serial No. 560,379. Class 39.

Blue Lake Producers Cooperative, Salem and West Salem, Oreg. Canned and frozen fresh vegetables. 558,118, Apr. 22; Serial No. 499,199. Class 46.

Bondact, Kansas City, Mo. Air pressurized apparatus. 557,938, Apr. 22; Serial No. 603,660, published Dec. 18, 1951. Class 23.

Borg-Warner Corporation, Chicago, Ill. Washing machines, and parts thereof. 558,094, Apr. 22; Serial No. 618,619, published Jan. 29, 1952. Class 24.

Boston Fresh Tripe Co., Brighton, Boston, Mass., to Swift & Company, Chicago, Ill. Pigs' feet, spiced and pickled pigs' feet dainties, etc. 292,190, renewed Mar. 1, 1952. O. G. Apr. 22. Class 46.

Bowman, William A., doing business under the name of WABCO, Baltimore, Md. Windows. 557,950, Apr. 22; Serial No. 604,417, published Jan. 22, 1952. Class 12.

Boye Needle Company, The, Chicago, Ill. Rotary-needle, shuttle, and bobbin cases or cabinets, safety-pin cabinets, crochet-hook cabinets, etc. 557,804, Apr. 22; Serial No. 544,509, published Jan. 15, 1952. Class 32.

Bradford Dyers' Association, Limited, The, Bradford, England. Cotton piece goods. 290,686, renewed Jan. 12, 1952. O. G. Apr. 22. Class 42.

Brixite Manufacturing Company, Inc., South Kearny, N. J. Multicolored insulated sidings. 558,140, Apr. 22; Serial No. 601,300. Class 12.

Brown-Brockmeyer Company, The: *See*—
Motor Export Manufacturing Co.

Bryan Full Fashioned Mills, Chattanooga, Tenn. Hosiery for women. 558,152, Apr. 22; Serial No. 605,990. Class 39.

Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y. Hydrogen peroxide, ammonium persulphate, and potassium persulphate. 290,552, renewed Jan. 12, 1952. O. G. Apr. 22. Class 6.

Burrows, Edwin S., assignee: *See*—
Harris, Arthur O.

Bushman Products, Inc., Chicago, Ill. Jar and bottle openers. 557,958, Apr. 22; Serial No. 605,463, published Dec. 18, 1951. Class 23.

Calico Printers' Association Limited, The, Manchester, England. Fabrics. 292,768, renewed Mar. 29, 1952. O. G. Apr. 22. Class 42.

California Tuna Canning Company, San Diego, Calif. Canned tuna. 558,041, Apr. 22; Serial No. 613,499, published Dec. 18, 1951. Class 46.

Cannon Shoe Company, Baltimore, Md. Women's and misses' lingerie. 343,587, Feb. 23, 1937. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 39.

Carboloy Company, Inc., Detroit, Mich., now by merger General Electric Company. Tools. 557,892, Apr. 22; Serial No. 594,757, published Dec. 18, 1951. Class 23.

Carew & Powers Co.: *See*—
Powers, Harold W.

Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa. Bakery products. 557,904, Apr. 22; Serial No. 600,209, published Jan. 29, 1952. Class 46.

Catawba Sales Agency, Inc., Hickory, N. C. Men's, boys', children's, and misses' hosiery. 558,165, Apr. 22; Serial No. 611,757. Class 39.

Celanese Corporation of America, New York, N. Y. Fabrics. 293,426, renewed Apr. 19, 1952. O. G. Apr. 22. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 293,523, renewed Apr. 26, 1952. O. G. Apr. 22. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 295,367, renewed June 28, 1952. O. G. Apr. 22. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 295,369, renewed June 28, 1952. O. G. Apr. 22. Class 42.

Celanese Corporation of America, New York, N. Y. Fabrics. 295,648–50, renewed July 5, 1952. O. G. Apr. 22. Class 42.

Champion Soap Co. Inc., New York, N. Y., to The Dagmar Chemical Company, Incorporated, Stamford, Conn. Anti-freeze compounds. 289,144, renewed Nov. 17, 1951. O. G. Apr. 22. Class 6.

Chautauqua Cabinet Company, doing business under the name "Kling Factories," Mayville, N. Y. Bedroom furniture. 557,889, Apr. 22; Serial No. 593,907, published Jan. 8, 1952. Class 32.

Chen Yu, Inc., assignor to Richard Hudnut, New York, N. Y. Lipstick and nail lacquer. 557,867, Apr. 22; Serial No. 589,146, published Jan. 8, 1952. Class 51.

Chicago Cardboard Company, Chicago, Ill. Wren houses. 558,011, Apr. 22; Serial No. 612,059, published Dec. 25, 1951. Class 50.

Chicago Flexible Shaft Company, to Sunbeam Corporation, Chicago, Ill. Combined electric cigarette lighters and dispensers. 291,281, renewed Feb. 9, 1952. O. G. Apr. 22. Class 8.

Chicago Pharmacal Company, Chicago, Ill. Ointment. 339,659, Oct. 13, 1936. Republished Apr. 22. Class 18.

Chivers & Sons, Limited, Histon, Cambridge, England. Marmalade, fruit jellies, and jams. 557,856, Apr. 22; Serial No. 586,224, published Jan. 8, 1952. Class 46.

Chocolat Tobler, Limited: *See*—
Aktiengesellschaft Chocolat Tobler.

Cleveland Heater Company, The, Cleveland, Ohio. Gas, oil, and vapor burning water heaters and their structural parts. 290,407–08, renewed Jan. 5, 1952. O. G. Apr. 22. Class 34.

Cleveland Heater Company, The, Cleveland, Ohio. Gas, oil, and vapor burning water heaters and their structural parts. 291,812, renewed Feb. 23, 1952. O. G. Apr. 22. Class 34.

Cleveland Lathe & Machine Co., Cleveland, Ohio. Manually operated electrically heated sealers. 558,155, Apr. 22; Serial No. 607,165. Class 21.

Coast Store Fixture and Manufacturing Company: *See*—
Renna, Vito M.

Coffing, James R., Company, Danville, Ill. Automatic dog feeder and waterer structure. 557,947, Apr. 22; Serial No. 604,254, published Jan. 22, 1952. Class 50.

Cohen, Samuel, Shoe Stores, Inc., doing business as The New Shoe Store, Hempstead, N. Y. Leather and fabric shoes. 295,195, renewed June 21, 1952. O. G. Apr. 22. Class 39.

College Inn Food Products Company, Chicago, Ill. Canned cream of pea soup, canned consomme madrilene, canned vegetable soup, etc. 557,830, Apr. 22; Serial No. 573,919, published Jan. 15, 1952. Class 46.

Collord, Incorporated, Detroit, Mich. Rubber coated metal clips for wiring and tubing, plating racks and grommets. 558,135, Apr. 22; Serial No. 590,353. Class 13.

Columbia Broadcasting System, Inc., New York, N. Y. Radio program broadcasting services. 558,099, Apr. 22; Serial No. 545,447, published Jan. 29, 1952. Class 104.

Columbia Broadcasting System, Inc., New York, N. Y. Radio program broadcasting services. 558,100–01, Apr. 22; Serial Nos. 545,449–50, published Jan. 29, 1952. Class 104.

Columbia Broadcasting System, Inc., New York, N. Y. Radio program broadcasting services. 558,102, Apr. 22; Serial No. 545,452, published Jan. 29, 1952. Class 104.

Columbus Packing Company: *See*—
Armour and Company.

Colvin Corporation, Long Island City, N. Y. Juvenile furniture. 557,790, Apr. 22; Serial No. 521,243, published Jan. 15, 1952. Class 32.

Comfort Manufacturing Company: *See*—
Holman Soap Company.

Con-Cor Paint Company, Kansas City, Mo. Clear, water repellant masonry coating composition. 558,010, Apr. 22; Serial No. 611,941, published Dec. 25, 1951. Class 16.

Confections, Inc., Chicago, Ill. Shelled pop corn. 522,476, Mar. 14, 1950. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 46.

Consolidated Dairy Products Company, Inc., New York, N. Y. Ice cream. 558,061, Apr. 22; Serial No. 614,242, published Jan. 22, 1952. Class 46.

Coon, W. B., Company, Rochester, N. Y. Women's leather shoes. 294,622, renewed June 7, 1952. O. G. Apr. 22. Class 39.

Core, John C., Jr., Huntington, W. Va. Cocoa base powder. 558,009, Apr. 22; Serial No. 611,764, published Feb. 5, 1952. Class 46.

Cornell-Dubilier Electric Corporation, South Plainfield, N. J. Electrical condensers. 558,007, Apr. 22; Serial No. 611,689, published Feb. 5, 1952. Class 21.

Cory Corporation, Chicago, Ill. Filter units for coffee makers. 558,144, Apr. 22; Serial No. 604,255. Class 31.

Courtaulds, Limited, London, England. Yarns. 281,184, Mar. 10, 1931. Republished Apr. 22. Class 43.

Crane Co., Chicago, Ill. Heating materials. 293,974, renewed May 10, 1952. O. G. Apr. 22. Class 13.

Curtis, Helene, Industries, Inc., Chicago, Ill. Shampoo. 557,877, Apr. 22; Serial No. 591,458, published Jan. 22, 1952. Class 52.

Dagmar Chemical Company, Incorporated, The: *See*—
Champion Soap Co. Inc.

Dana Perfumes, Inc., Chicago, Ill., assignor to Les Parfums de Dana, Inc., New York, N. Y. Lipstick. 558,022, Apr. 22; Serial No. 612,951, published Jan. 22, 1952. Class 51.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. 558,023, Apr. 22; Serial No. 612,952, published Dec. 11, 1951. Class 51.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. 558,024, Apr. 22; Serial No. 612,959, published Dec. 11, 1951. Class 51.

Dana Perfumes, Inc., Chicago, assignor to N. J. Phelps, Palatine, Ill. Lipstick. 558,025–6, Apr. 22; Serial Nos. 612,961–2, published Dec. 11, 1951. Class 51.

Davis Manufacturing Co., Inc., Knoxville, Tenn. Insecticide. 557,940, Apr. 22; Serial No. 603,771, published July 31, 1951. Class 6.

Daystrom, Incorporated, Elizabeth, N. J. Chromed steel tubular, plastic-coated tubular, plastic and wooden furniture. 558,047, Apr. 22; Serial No. 613,769, published Jan. 15, 1952. Class 32.

Dearborn Chemical Company, Chicago, Ill. Solvents. 294,218, renewed May 24, 1952. O. G. Apr. 22. Class 52.

De Met, Georges-George, & Bros., Inc., Chicago, Ill. Candy. 558,090, Apr. 22; Serial No. 617,397, published Feb. 5, 1952. Class 46.

Development Engineering Company: *See*—
Sturm, Leonard W.

Devlieg Machine Company, Ferndale, Detroit, Mich. Machine tools and parts thereof. 557,876, Apr. 22; Serial No. 591,408, published Nov. 27, 1951. Class 23.

Diamond Huller Company, Inc., Winona, Minn. Cottonseed hullers and parts thereof, tow mill machinery and parts thereof, etc. 558,030, Apr. 22; Serial No. 613,130, published Jan. 15, 1952. Class 23.

Dickson Safety Products Co., Los Angeles, Calif. Gloves. 558,081, Apr. 22; Serial No. 615,765, published Jan. 29, 1952. Class 39.

Di-Noc Company, The, Cleveland, Ohio. Kits containing materials for applying decorative finishes to surfaces. 557,899, Apr. 22; Serial No. 598,714, published Dec. 4, 1951. Class 50.

Dole Sales Company: *See*—
Hawaiian Pineapple Company, Limited.

Doniger, David D., & Co. Inc., New York, N. Y. Men's and boys' wearing apparel. 557,953, Apr. 22; Serial No. 604,841, published Jan. 15, 1952. Class 39.

Dorman, B., & Sons, Inc., Brooklyn, N. Y. Canned foods. 558,142, Apr. 22; Serial No. 602,752. Class 46.

Douglas, Harry G., St. Louis, Mo. Cold wave creme. 544,195, June 19, 1951. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 51.

Drew, E. F., & Co., Inc., New York, N. Y. Margarine. 557,897, Apr. 22; Serial No. 597,672, published Feb. 5, 1952. Class 46.

Duon, Inc., Coral Gables, Fla., and Dayton, Ohio. Face and hand creams and shampoos. 557,814, Apr. 22; Serial No. 562,605, published Nov. 15, 1949. Class 51.

Dupli-Typer Company, New York, N. Y. Ribbon mounting frames and attachments therefor. 557,811, Apr. 22; Serial No. 559,441, published Dec. 18, 1951. Class 23.

Du Pont, E. I., de Nemours and Company: *See*—
Kinetic Chemicals, Inc.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemicals. 291,950, Feb. 23, 1932. Republished Apr. 22. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 292,875, Mar. 29, 1932. Republished Apr. 22. Class 6.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Chemical compound. 558,066, Apr. 22; Serial No. 614,545, published Jan. 29, 1952. Class 6.

Duro Finishing Corporation, Fall River, Mass. Dyeing, shrinking and waterproofing of textile materials. 558,111, Apr. 22; Serial No. 586,150, published July 3, 1951. Class 106.

Eastern Corporation: *See*—
Katahdin Pulp and Paper Company.

Eastman Kodak Co., to Eastman Kodak Company, Rochester, N. Y. Photographic cameras, photographic lenses, photographic portrait attachments, etc. 85,423, re-renewed Feb. 20, 1952. O. G. Apr. 22. Class 26.

Eastman Kodak Company: *See*—
Eastman Kodak Co.

Eastman Kodak Company, to Eastman Kodak Company, Rochester, N. Y. Interval timers. 291,146, renewed Feb. 2, 1952. O. G. Apr. 22. Class 27.

Eastman Oil Well Survey Company, Denver, Colo. Directional drilling, core orienting and oil well surveys. 558,103, Apr. 22; Serial No. 552,644, published Jan. 29, 1952. Class 103.

Edgcomb Steel Company, Philadelphia, Pa. Steel sheets, steel strips, steel bars, etc. 393,127, Jan. 27, 1942. Republished Apr. 22. Class 14.

Edi Products Inc., Brooklyn, N. Y. Electrically operated drying apparatus. 557,955, Apr. 22; Serial No. 605,149, published Jan. 22, 1952. Class 21.

Ellswood, Harry W., doing business under the name of Ellswood's, Pueblo, Colo. Card-board salt and pepper shakers. 558,148, Apr. 22; Serial No. 605,474. Class 2.

Ellswood's: *See*—
Ellswood, Harry W.

Ensign-Shaw Company, Inc., New Canaan, Conn. Display devices. 557,951, Apr. 22; Serial No. 604,426, published Jan. 15, 1952. Class 50.

Erving Paper Mills, Erving, Mass. Table napkins manufactured of paper or cellulose sheeting. 558,132, Apr. 22; Serial No. 586,405. Class 37.

Estrin, Richard, trading as Para Laboratories, New York, N. Y. Over-nite cream, texture cream, cleansing cream, etc. 557,857, Apr. 22; Serial No. 586,634, published Jan. 22, 1952. Class 51.

Etiwanda Citrus Fruit Association, Etiwanda, Calif. Fresh citrus fruits. 557,826, Apr. 22; Serial No. 571,126, published Feb. 5, 1952. Class 46.

Ewell, Robert G., Berkeley, Calif. Portable bar consisting of a fitted piece of luggage with compartments therein. 557,963, Apr. 22; Serial No. 605,788, published Jan. 15, 1952. Class 3.

F. Pallcio y Compañía, S. A., Fábrica de Tabacos: *See*—
Lutgarda Gener y Seycher.

FKG Fritz Kesselring Gerätebau A. G., Bachtobel-Weinfelden, Thurgau, Switzerland. Alkali-vaporous discharge tubes. 557,966, Apr. 22; Serial No. 606,654, published Jan. 8, 1952. Class 21.

Fabriques Movado, La Chaux-de-Fonds, Switzerland. Watches and parts thereof. 290,917, Jan. 19, 1932. Republished Apr. 22. Class 27.

Fairfax Bread Company: *See*—
Safeway Stores, Incorporated.

Fairhurst, John T., Co. Inc., New York, N. Y. Wardrobes, folding partitions and structural parts for wardrobes and folding partitions. 557,983, Apr. 22; Serial No. 609,172, published Jan. 15, 1952. Class 32.

Falls Stamping & Welding Co., The, Cuyahoga Falls, Ohio. Metal products—namely awnings, canopies, etc. 557,871, Apr. 22; Serial No. 590,016, published Jan. 1, 1952. Class 12.

Fancourt, W. F., Co., Philadelphia, Pa. Chemical preparation. 558,078, Apr. 22; Serial No. 615,170, published Jan. 29, 1952. Class 6.

Farmer Tarleton: *See*—
Jacobs, Walter.

Farrington Texel Corporation, Walpole, Mass. Fabrics coated or impregnated for resistance to water and/or mold and sold as artificial leather. 557,984, Apr. 22; Serial No. 609,543, published Dec. 25, 1951. Class 50.

Felters Company, The, Boston, Mass. Felts. 558,029, Apr. 22; Serial No. 613,124, published Jan. 15, 1952. Class 50.

Ferguson, J. L., Company, Joliet, Ill. Package filling machines. 557,793, Apr. 22; Serial No. 527,495, published Jan. 15, 1952. Class 23.

Fine Foods, Inc., Seattle, Wash. Canned peas. 558,133, Apr. 22; Serial No. 586,406. Class 46.

Firmenich & Co., Geneva, Switzerland. Flavoring extracts. 557,807, Apr. 22; Serial No. 550,799, published Feb. 5, 1952. Class 46.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural and synthetic essential oils, aromatic chemicals. 557,890, Apr. 22; Serial No. 594,208, published Dec. 11, 1951. Class 18.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural or synthetic perfumery compositions, aromatic chemicals. 557,928, Apr. 22; Serial No. 603,054, published Jan. 8, 1952. Class 51.

Firmenich & Co., assignor to Firmenich, Incorporated, New York, N. Y. Natural or synthetic perfumery compositions, natural and synthetic essential oils, aromatic chemicals. 557,935, Apr. 22; Serial No. 603,443, published Jan. 8, 1952. Class 51.

Firmenich, Incorporated, assignee: *See*—
Firmenich & Co.

Firmenich Incorporated, New York, N. Y. Artificial and synthetic perfumery compositions, natural and synthetic oils and aromatic chemicals. 557,959, Apr. 22; Serial No. 605,475, published Jan. 15, 1952. Class 51.

Fleischman, M. R., Co., San Francisco, Calif. Ladies' sportswear. 557,924, Apr. 22; Serial No. 602,315, published Jan. 29, 1952. Class 39.

Floreskul, Stanley, doing business as The SF Laboratories, Boston, Mass. Face creams, skin creams, cleansing creams, etc. 557,894, Apr. 22; Serial No. 595,253, published Dec. 11, 1951. Class 51.

Florida Coffee Company, Miami, Fla. Coffee. 558,019, Apr. 22; Serial No. 612,735, published Feb. 5, 1952. Class 46.

Flotill Products, Incorporated, Stockton, Calif. Canned and peeled tomatoes with puree and tomato paste. 557,798, Apr. 22; Serial No. 535,017, published Jan. 29, 1952. Class 46.

Flour Mills of America, Inc., doing business under the name and style of Kansas Flour Mills Company, Kansas City, Mo. Wheat flour. 557,808, Apr. 22; Serial No. 553,608, published Dec. 11, 1951. Class 46.

Flour Mills of America, Inc., doing business under the name and style of The Kansas Flour Mills Company, Kansas City, Mo. Wheat flour. 558,175, Apr. 22; Serial No. 622,154. Class 46.

Ford, J. B., Company, The, to Wyandotte Chemicals Corporation, Wyandotte, Mich. Cleaning, cleansing and detergent materials, etc. 291,164, renewed Feb. 2, 1952. O. G. Apr. 22. Class 52.

Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 290,969, renewed Jan. 19, 1952. O. G. Apr. 22. Class 42.
Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 290,974, renewed Jan. 19, 1952. O. G. Apr. 22. Class 42.
Forstmann & Huffmann Company, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 291,098, renewed Jan. 26, 1952. O. G. Apr. 22. Class 42.
Forstmann Woolen Co.: *See*—
Forstmann & Huffmann Company.
Fort Dodge Laboratories, Inc., Fort Dodge, Iowa. Pesticide. 557,815, Apr. 22; Serial No. 562,689, published May 23, 1950. Class 18.
Foster Refrigerator Corporation, Hudson, N. Y. Domestic and commercial refrigerators and freezers. 558,169, Apr. 22; Serial No. 613,221. Class 31.
Francis-Louise Full Fashion Mills, Inc., Valdese, N. C. Women's hosiery. 558,060, Apr. 22; Serial No. 614,201, published Feb. 5, 1952. Class 39.
Frederick Post Company, The, Chicago, Ill. Encased set of instruments for mechanical drawing. 558,130, Apr. 22; Serial No. 585,523. Class 26.
Garlock Packing Company, The, Palmyra, N. Y. Machinery packing. 291,050, renewed Jan. 26, 1952. O. G. Apr. 22. Class 35.
Garlock Packing Company, The, Palmyra, N. Y. Semi-metallic gaskets. 291,999, renewed Mar. 1, 1952. O. G. Apr. 22. Class 35.
General Controls Co., Glendale, Calif. Transformers; relays; valves operated by an electric motor or electro-magnet, etc. 557,809, Apr. 22; Serial No. 553,843, published Jan. 1, 1952. Class 21.
General Dyestuff Corporation, New York, N. Y. Chemical substances, compounds and compositions. 558,073, Apr. 22; Serial No. 614,768, published Jan. 29, 1952. Class 6.
General Electric Company: *See*—
Carboloy Company, Inc.
General Features Corporation, New York, N. Y. Newspaper feature column. 558,156, Apr. 22; Serial No. 607,170. Class 38.
General Foods Corporation, New York, N. Y. Salt. 558,077, Apr. 22; Serial No. 615,061, published Jan. 22, 1952. Class 46.
General Mills, Inc., Minneapolis, Minn. Wheat flour. 557,912, Apr. 22; Serial No. 600,659, published Jan. 22, 1952. Class 46.
Geneva Modern Kitchens, Inc., Geneva, Ill. Wall cabinets, floor cabinets, etc. 557,858, Apr. 22; Serial No. 587,104, published Jan. 29, 1952. Class 32.
Germaine Monteil Cosmetiques Corporation, New York, N. Y. Liquid make-up base. 558,021, Apr. 22; Serial No. 612,905, published Jan. 15, 1952. Class 51.
Germaine Monteil Parfums Co., New York, N. Y. Cologne, toilet water, perfume, etc. 557,987, Apr. 22; Serial No. 609,723, published Jan. 15, 1952. Class 51.
Gerry Nufoam Products Corporation, New York, N. Y. Pillows. 557,883–4, Apr. 22; Serial Nos. 592,623–4, published Jan. 15, 1952. Class 32.
Gift Maker Company: *See*—
Hagstrom, Marjorie J.
Girard's, Inc., San Rafael, Calif. French dressing. 558,153, Apr. 22; Serial No. 606,377. Class 46.
Globe Roofing Products Co., Inc., Whiting, Ind. Mineral-surfaced asphalt saturated felt shingles. 558,028, Apr. 22; Serial No. 613,064, published Dec. 25, 1951. Class 12.
Gold-N-Glaze Flour Company, St. Joseph, Mo. Doughnut flour. 558,128, Apr. 22; Serial No. 583,925. Class 46.
Goldsmith, Samuel R., & Son, Inc., New York, N. Y. Ladies' handbags. 558,053, Apr. 22; Serial No. 613,912, published Jan. 15, 1952. Class 3.
Good-Year Products Co.: *See*—
Pictsweet Foods, Inc.
Graham Sea Food Co., Coden and Bayou La Batre, Ala. Canned seafood. 558,170, Apr. 22; Serial No. 613,634. Class 46.
Grand Rapids Store Equipment Company, Grand Rapids, Mich. System of store furniture. 557,804, Apr. 22; Serial No. 588,435, published Jan. 1, 1952. Class 32.
Grant Company: *See*—
Whiteside, Grant T.
Granz, Norman, New York, N. Y. Grooved phonograph records and albums for phonograph records. 558,136, Apr. 22; Serial No. 593,867. Class 36.
Graser, August G., Waco, Tex. Liniment. 558,141, Apr. 22; Serial No. 601,498. Class 18.
Great Western Mushroom Company, The, Denver, Colo. Prepared mushroom sauce. 558,138, Apr. 22; Serial No. 597,681. Class 46.
Greif Bros. Co., The, Cleveland, to The Greif Bros. Cooperage Corporation, Delaware, Ohio. Casks and barrels. 86,528–30, re-renewed May 14, 1952. O. G. Apr. 22. Class 2.
Greif Bros. Cooperage Corporation, The: *See*—
Greif Bros. Co., The.
Griggs, Cooper & Co., also doing business as Sanitary Food Mfg. Co., St. Paul, Minn. Coffee. 294,233, renewed May 24, 1952. O. G. Apr. 22. Class 46.
Haas, Baruch & Co., Los Angeles, Calif. Canned crab and lobster. 558,096, Apr. 22; Serial No. 619,017, published Nov. 27, 1951. Class 46.
Hagstrom, Marjorie J., doing business as Gift Maker Company, Kansas City, Mo. Handicraft kits. 557,865, Apr. 22; Serial No. 588,687, published Jan. 15, 1952. Class 50.
Halfhill Company, The, Los Angeles, Calif. Canned tuna. 557,818, Apr. 22; Serial No. 564,724, published Jan. 29, 1952. Class 46.
Handbag Metal Specialties, Inc., New York, N. Y. Ladies' handbags. 557,960, Apr. 22; Serial No. 605,656, published Jan. 15, 1952. Class 3.
Hansen Fruit & Cold Storage Co., Yakima, Wash. Fresh deciduous fruits. 577,837, Apr. 22; Serial No. 577,716, published Jan. 22, 1952. Class 46.
Harbor Plywood Corporation, Aberdeen, Wash. Plywood. 557,996, Apr. 22; Serial No. 610,787, published Jan. 15, 1952. Class 12.
Harley and Hunzicker, doing business under the name of Kool Kooshion Mfg. Co., Oklahoma City, Okla. Fabricated cushions. 557,994, Apr. 22; Serial No. 610,516, published Jan. 29, 1952. Class 32.
Harris, Arthur O., Buffalo, assignor to E. S. Burrows, Eden, N. Y. Portable display, presentation and bulletin boards. 558,970, Apr. 22; Serial No. 606,868, published Dec. 4, 1951. Class 50.
Hatchadourian, Matthew, doing business as Allied American Export Co., New York, N. Y. Vine leaves stuffed with rice, onions, pure olive oil, dill, salt and spices. 558,157, Apr. 22; Serial No. 607,499. Class 46.
Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company and Barron-Gray Packing Company, Honolulu, Hawaii, and San Francisco and San Jose, Calif. Canned fruits, canned fruit cocktail, and canned fruit juices. 558,172, Apr. 22; Serial No. 616,705. Class 46.
Heil Co., The, Milwaukee, Wis. Dirt moving and/or carrying, tractor powered vehicles. 558,131, Apr. 22; Serial No. 585,642. Class 23.
Hickmott Canning Co., Antioch, Calif. Canned asparagus. 557,859, Apr. 22; Serial No. 587,487, published Jan. 29, 1952. Class 46.
Hipwell Manufacturing Company, Pittsburgh, Pa. Flash lights. 558,051, Apr. 22; Serial No. 613,874, published Jan. 8, 1952. Class 21.
Hoffman, Martin, Co., Livonia, Mich. Building fronts. 557,969, Apr. 22; Serial No. 606,775, published Jan. 15, 1952. Class 12.
Holman Soap Company, to Comfort Manufacturing Company, Chicago, Ill. Toilet soap. 295,490, renewed July 5, 1952. O. G. Apr. 22. Class 52.
Holzapfel's Compositions Company, Limited, Newcastle-upon-Tyne, England, by International Paint Company, Inc., New York, N. Y. Anticorrosive and antifouling paint, mixed paint, etc. 61,631, Apr. 2, 1907. Republished Apr. 22. Class 16.
Hood Sales Co.: *See*—
Oscar, George.
Hopp Press, Inc., The, New York, N. Y. Plastic and metal identification tags, markers, etc. 557,979, Apr. 22; Serial No. 608,545, published Jan. 15, 1952. Class 50.
Hotstream Heater Company, The, Cleveland, Ohio. Automatic draft controls. 290,644, renewed Jan. 12, 1952. O. G. Apr. 22. Class 34.
Hudnut, Richard, assignee: *See*—
Chen Yu, Inc.
Hudnut, Richard, New York, N. Y. Perfume. 557,813, Apr. 22; Serial No. 561,468, published Jan. 8, 1952. Class 51.
Hunt, George B., doing business as The Milwaukee Dustless Brush Company, Milwaukee, Wis. Protective coating floor wax, a lacquer-like penetrating floor seal and floor finish. 558,122, Apr. 22; Serial No. 549,639. Class 16.
Hygrotrol Corporation, San Jose, Calif. Services rendered on a contract basis to airports and food growers. 558,106–7, Apr. 22; Serial Nos. 580,366–7, published Jan. 29, 1952. Class 100.
I-T-E Circuit Breaker Company, Philadelphia, Pa. Circuit breakers, switchgear, relays, bus runs, etc. 557,827, Apr. 22; Serial No. 571,968, published Jan. 1, 1952. Class 21.
Icard Cordage Company, Icard, N. C., to Samson Cordage Works, Boston, Mass. Sashcord and clothesline. 293,157, renewed Apr. 12, 1952. O. G. Apr. 22. Class 7.
Ilsley Doubleday & Company: *See*—
Otis Oil Company, Inc.
Imperial Tobacco Company, The (of Great Britain and Ireland), Limited: *See*—
Player, John, & Sons, Limited.
Independent Growers Co.: *See*—
Russell, E. J.
Independent Oil and Gas Company, Tulsa, Okla., by Standard Oil Company, Chicago, Ill. Lubricating oils. 213, 587, June 1, 1926. Republished Apr. 22. Class 15.
Industrial Starter Corporation, New York, N. Y. Fluorescent lamp starters. 557,990, Apr. 22; Serial No. 609,926, published Jan. 22, 1952. Class 21.
Ingalls, Roy E., Sumner, Wash. Canned peas, diced carrots, whole kernel corn, etc. 557,964, Apr. 22; Serial No. 605,793, published Jan. 22, 1952. Class 46.
Ingle, Oliver W., Portland, Oreg. Extruded two-piece aggregate clay tile. 558,003, Apr. 22; Serial No. 611,522, published Jan. 15, 1952. Class 12.

Interchemical Corporation, New York, N. Y. Oilcloth. 558,045, Apr. 22; Serial No. 613,642, published Jan. 29, 1952. Class 20.
International Bedding Company, The, Baltimore, Md. Cotton mattresses, cotton felt mattresses, etc. 557,948, Apr. 22; Serial No. 604,304, published Jan. 15, 1952. Class 32.
International Handkerchief Mfg. Co., The, New York, N. Y. Handkerchiefs. 291,657, renewed Feb. 23, 1952. O. G. Apr. 22. Class 39.
International Harvester Company, Chicago, Ill. Refrigeration packaging products—namely, aluminum wrapping foil. 557,921, Apr. 22; Serial No. 601,794, published July 17, 1951. Class 14.
International Paint Company, Inc.: *See*—
Holzapfel's Compositions Company, Limited.
International Products Company, New Haven, Conn. Crayons and plastic writing slate boards associated therewith. 558,160, Apr. 22; Serial No. 608,760. Class 37.
International Salt Company, Scranton, Pa. Salt. 557,817, Apr. 22; Serial No. 564,689, published Jan. 29, 1952. Class 46.
Interstate Bedding Company, Chicago, Ill. Sleeping bags. 558,097, Apr. 22; Serial No. 621,247, published Jan. 22, 1952. Class 22.
J & L Steel Barrel Company, New York, N. Y. Shipping pails, garbage cans, and waste baskets. 557,913, Apr. 22; Serial No. 600,726, published Feb. 5, 1952. Class 2.
Jacobs, Walter, doing business as Farmer Tarleton, Pike, N. H. Maple smoked turkeys. 558,084, Apr. 22; Serial No. 616,468, published Jan. 22, 1952. Class 46.
Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfume. 558,039, Apr. 22; Serial No. 613,406, published Jan. 29, 1952. Class 51.
Juvenile Shoe Corporation of America, The, Aurora, Mo. Shoes and slippers. 294,485, renewed May 31, 1952. O. G. Apr. 22. Class 39.
Kaiser Steel Corporation, Oakland, Calif. Cold rolled steel strip and sheet and hot rolled steel strip, sheet and plate, bars and structural shapes. 557,939, Apr. 22; Serial No. 603,687, published Jan. 29, 1952. Class 14.
Kalich, M. L., & Co.: *See*—
Kalich, Mitchel L.
Kalich, M. L., & Company: *See*—
Kalich, Mitchel L.
Kalich, Mitchel L., doing business as M. L. Kalich & Company, by M. L. Kalich & Co., Watsonville, Calif. Fresh fruits. 243,231, June 12, 1928. Republished Apr. 22. Class 46.
Kamkap, Inc., New York, N. Y. Toy cash register. 557,923, Apr. 22; Serial No. 602,154, published Jan. 29, 1952. Class 22.
Kansas Flour Mills Company: *See*—
Flour Mills of America, Inc.
Kansas Flour Mills Company, The: *See*—
Flour Mills of America, Inc.
Kansas Milling Company, The, Wichita, Kans. Wheat flour. 557,986, Apr. 22; Serial No. 609,652, published Dec. 11, 1951. Class 46.
Katahdin Pulp and Paper Company, Lincoln, to Eastern Corporation, Bangor, Maine. Lining, wrapping, printing, and writing paper. 86,304, re-renewed Apr. 30, 1952. O. G. Apr. 22. Class 37.
Katz, Jacob F., doing business as Nutrosol Company, Brooklyn, N. Y. Liquid chemical compound for use as an additive to solvents. 557,854, Apr. 22; Serial No. 584,987, published Jan. 22, 1952. Class 52.
Kaufmann Department Stores: *See*—
May Department Stores Company, The.
Keli Lock Co., Inc., Charlestown, N. H. Door lock sets and parts thereof, locks and keys. 444,682, Apr. 22; Serial No. 521,262, published Jan. 29, 1952. Class 25.
Keith, Geo. E., Company, Brockton, Mass. Hand bags. 293,013, renewed Apr. 5, 1952. O. G. Apr. 22. Class 3.
Kenwill Corporation, The, Cleveland, Ohio. Roller-type paint applicator. 557,848, Apr. 22; Serial No. 581,486, published Jan. 15, 1952. Class 29.
Kinetic Chemicals, Inc., to E. I. du Pont de Nemours and Company, Wilmington, Del. Fluorinated hydrocarbons. 293,851, renewed May 10, 1952. O. G. Apr. 22. Class 6.
Kirby, Harold L., Glendale, Calif. Baby furniture and equipment. 557,900, Apr. 22; Serial No. 598,798, published Jan. 8, 1952. Class 32.
Kiwi Polish Company Proprietary Limited, The, Richmond, near Melbourne, Victoria, Australia, and Philadelphia, Pa. Shoe shine kit. 558,164, Apr. 22; Serial No. 610,178. Class 4.
Klenk, Karl: *See*—
Klenk, Karl J.
Klenk, Karl J., doing business as Karl Klenk, Wilmington, Del. Angularly adjustable and extensible plier. 557,853, Apr. 22; Serial No. 584,240, published Nov. 20, 1951. Class 23.
"Kling Factories": *See*—
Chautauqua Cabinet Company.
Knoll Associates, Inc., New York, N. Y. Articles of furniture. 557,891, Apr. 22; Serial No. 594,383, published Jan. 1, 1952. Class 32.
Knoll Associates, Inc., New York, N. Y. Articles of furniture. 557,893, Apr. 22; Serial No. 595,076, published Jan. 1, 1952. Class 32.
Knoll Associates, Inc., New York, N. Y. Articles of furniture. 557,931, Apr. 22; Serial No. 603,301, published Jan. 8, 1952. Class 32.
Koeppel Steel Products, Inc., Ossining, N. Y. Office equipment. 558,064, Apr. 22; Serial No. 614,350, published Jan. 22, 1952. Class 32.
Kool Kooshion Mfg. Co.: *See*—
Harley and Hunzicker.
Kresge Department Store Corporation, to Kresge-Newark, Inc., Newark, N. J. Dress shields, combs, and hair pins. 294,294, renewed May 24, 1952. O. G. Apr. 22. Class 40.
Kresge-Newark, Inc.: *See*—
Kresge Department Store Corporation.
Kuhlman Electric Co., Bay City, Mich. Transformers. 557,855, Apr. 22; Serial No. 585,650, published Jan. 1, 1952. Class 21.
Kuick, Paul, doing business as Macomb Food Supply, Centerline, Mich. Horse meat. 557,850, Apr. 22; Serial No. 582,733, published Jan. 22, 1952. Class 46.
Lance, Inc.: *See*—
Lance Packing Company.
Lance, Inc., Charlotte, N. C. Cookie sandwiches. 412,197, Feb. 20, 1945. Republished Apr. 22. Class 46.
Lance Packing Company, by Lance, Inc., Charlotte, N. C. Peanut butter sandwiches. 364,577, Feb. 7, 1939. Republished Apr. 22. Class 46.
La Resista Corset Company, The, Bridgeport, Conn. Ladies' corsets, corselets, girdles, etc. 558,161, Apr. 22; Serial No. 609,557. Class 39.
Larsen Company, The, Green Bay, Wis. Canned vegetables. 221,396, Nov. 30, 1926. Republished Apr. 22. Class 46.
Larsen Company, The, Green Bay, Wis. Canned fruits and canned vegetables. 325,372, June 18, 1935. Republished Apr. 22. Class 46.
Lea, David M., & Company, Incorporated, Richmond, Va. Furniture. 557,989, Apr. 22; Serial No. 609,867, published Jan. 22, 1952. Class 32.
Lehigh Furniture Company, Easton, Pa. Play pens. 557,842, Apr. 22; Serial No. 579,692, published Jan. 29, 1952. Class 32.
Les Parfumes de Dana, Inc., assignee: *See*—
Dana Perfumes, Inc.
Levine, Max, doing business under the name Max Levine & Co., New York, N. Y. Women's and misses' dresses. 558,162, Apr. 22; Serial No. 610,082. Class 39.
Levine, Max, & Co.: *See*—
Levine, Max.
Levow, David, New York, N. Y. Roofing supplies and equipment. 557,874, Apr. 22; Serial No. 590,445, published Dec. 18, 1951. Class 23.
Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Men's and boys' suits, topcoats, and overcoats. 340,302, Nov. 3, 1936. Canceled Mar. 10, 1952. O. G. Apr. 22. Class 39.
Levy, I., Sons, New York, N. Y. Auxiliary folding table top. 557,862, Apr. 22; Serial No. 588,225, published Jan. 22, 1952. Class 32.
Lewis, David, Inc., St. Louis, Mo. Women's lingerie. 558,054, Apr. 22; Serial No. 613,925, published Jan. 29, 1952. Class 39.
Liberty Shrinkers Corp., New York, N. Y. Sponging, shrinking, fire-retarding, and decating, woolen materials. 558,112, Apr. 22; Serial No. 587,337, published Sept. 18, 1951. Class 106.
Lily Mill and Power Company, to Lily Mills Company, Shelby, N. C. Sewing thread. 292,603, renewed Mar. 15, 1952. O. G. Apr. 22. Class 43.
Lily Mill and Power Company, to Lily Mills Company, Shelby, N. C. Sewing thread. 293,425, renewed Apr. 19, 1952. O. G. Apr. 22. Class 43.
Lily Mills Company: *See*—
Lily Mill and Power Company.
Limpert Bros., Inc., New York, N. Y., and Vineland, N. J. Canned fruit mix. 557,936, Apr. 22; Serial No. 603,453, published Dec. 4, 1951. Class 46.
Lindt & Sprungli, Inc., New York, N. Y. Chocolate candy. 557,962, Apr. 22; Serial No. 605,750, published Jan. 29, 1952. Class 46.
Luer Packing Company, Los Angeles, Calif. Salami sausage. 557,794, Apr. 22; Serial No. 532,240, published Jan. 22, 1952. Class 46.
Lutgarda Gener y Seycher to F. Palicio y Compañía, S. A., Fábrica de Tabacos, Habana, Cuba. Cigars, cigarettes and manufactured tobacco. 86,339–40, re-renewed Apr. 30, 1952. O. G. Apr. 22. Class 17.
Mack, Andrew, & Son: *See*—
Mack, Glenwood S.
Mack, Glenwood S., doing business as Andrew Mack & Son, Jonesville, Mich. Brushes. 557,976, Apr. 22; Serial No. 608,424, published Jan. 15, 1952. Class 29.
Macklanburg-Duncan Company, Oklahoma City, Okla. Caulking compound and glazing compound. 558,145, Apr. 22; Serial No. 605,315. Class 12.
Macklanburg-Duncan Company, Oklahoma City, Okla. Glazing compound and putties. 558,146, Apr. 22; Serial No. 605,316. Class 12.
Macklanburg-Duncan Company, Oklahoma City, Okla. Metal weather stripping. 558,147, Apr. 22; Serial No. 605,317. Class 12.
Macomb Food Supply: *See*—
Kuick, Paul.

Mandel Brothers, Inc., Chicago, Ill. Television receivers. 558,167, Apr. 22; Serial No. 612,503. Class 21.

Manufacturers Battery Company, Madison, Wis. Dry cells and dry cell batteries. 557,977–8, Apr. 22; Serial Nos. 608,506–07, published Jan. 22, 1952. Class 21.

March Engineering Company, Oshkosh, Wis., assignor, by mesne assignments, to Vulcan Manufacturing Co., Inc., Winona, Minn. Hydraulic jacks. 557,797, Apr. 22; Serial No. 534,040, published Jan. 15, 1952. Class 23.

Marshall Field & Company, Chicago, Ill. Sheets and pillow cases and towels. 292,327, renewed Mar. 15, 1952. O. G. Apr. 22. Class 42.

Masclet, Francesca: *See*—
Masclet, Marie-Francoise.

Masclet, Marie-Francoise, doing business under the name of Francesca Masclet, Paris, France. Perfume and cosmetics. 557,922, Apr. 22; Serial No. 602,077, published Jan. 15, 1952. Class 51.

Massachusetts Mattress Company, Boston, Mass. Mattresses and box springs. 557,701, Apr. 22; Serial No. 523,903, published Jan. 15, 1952. Class 32.

Massachusetts Mattress Company, Boston, Mass. Mattresses and box springs. 557,792, Apr. 22; Serial No. 523,912, published Jan. 22, 1952. Class 32.

May Department Stores Company, The, St. Louis, Mo., doing business as Kaufmann Department Stores, Pittsburgh, Pa. Ladies' and misses' ready-to-wear clothing. 557,819, Apr. 22; Serial No. 565,443, published Jan. 29, 1952. Class 39.

McGraw Electric Company, Elgin, Ill. Grids for cooking devices. 557,882, Apr. 22; Serial No. 591,940, published Jan. 29, 1952. Class 21.

McKesson & Robbins, Incorporated, Bridgeport, Conn., to McKesson & Robbins, Incorporated, New York, N. Y. Malt general tonic. 290,640, renewed Jan. 12, 1952. O. G. Apr. 22. Class 18.

Medusa Portland Cement Company: *See*—
Newaygo Portland Cement Company.

Merchandising Displays, Inc., Colorado Springs, Colo. Phonograph record display racks. 558,016, Apr. 22; Serial No. 612,460, published Jan. 29, 1952. Class 32.

Merrill Candy Company, Merrill, Wis. Bar candy. 557,803, Apr. 22; Serial No. 541,370, published Jan. 22, 1952. Class 46.

Messick, C. B., Jr.: *See*—
Messick, Calvin B., Jr.

Messick, Calvin B., Jr., doing business as C. B. Messick, Jr., Wauchula, Fla. Graded and packed deciduous fresh fruit and vegetables. 557,840, Apr. 22; Serial No. 578,989, published Jan. 22, 1952. Class 46.

Mid-West Acoustical & Supply Co., The, Cleveland, Ohio. Aluminum suspension system for acoustical tiles. 557,873, Apr. 22; Serial No. 590,231, published Jan. 1, 1952. Class 12.

Mila, Sewing Machine Factory, National Corporation: *See*—
Mila, Zavody Na Sici Stroje.

Mila, Zavody Na Sici Stroje, Narodni Podnik, also doing business under the name Mila, Sewing Machine Factory, National Corporation, Opava, Czechoslovakia, now by change of name Minerva, Narodni Podnik. Sewing machines and their parts. 557,906–07, Apr. 22; Serial Nos. 600,498–9, published Dec. 18, 1951. Class 23.

Milk Products, Inc., Philadelphia, Pa. Swine and poultry feeds. 557,835, Apr. 22; Serial No. 576,872, published Jan. 15, 1952. Class 46.

Miller Dial and Name Plate Company, Los Angeles, Calif. Name plates. 557,971, Apr. 22; Serial No. 606,926, published Dec. 25, 1951. Class 50.

Milwaukee Dustless Brush Company, The: *See*—
Hunt, George B.

Minerva, Narodni Podnik: *See*—
Mila, Zavody Na Sici Stroje.

Mitts & Merrill, Saginaw, Mich. Disintegrating machines, paper cutting machines, etc. 557,937, Apr 22; Serial No. 603,493, published Dec. 25, 1951. Class 23.

Modern Biscuit Corporation, Brooklyn, N. Y. Fig bars. 557,879, Apr. 22; Serial No. 591,579, published Jan. 22, 1952. Class 46.

Moland & Son Manufacturing Co., Okeene, Okla. Cooked and seasoned fish product. 557,956, Apr. 22; Serial No. 605,171, published Feb. 5, 1952. Class 46.

Moloney Electric Company, St. Louis, Mo. Oil for use in electrical apparatus. 558,015, Apr. 22; Serial No. 612,409, published Feb. 5, 1952. Class 21.

Monsanto Chemical Company, St. Louis, Mo. Solutions of salts of chlorinated phenols. 557,810, Apr. 22; Serial No. 557,861, published Jan. 22, 1952. Class 6.

Monsanto Chemical Company, St. Louis, Mo. Organic and inorganic chemicals for use in cleaning metals, etc. 557,885, Apr. 22; Serial No. 592,655, published Jan. 22, 1952. Class 52.

Morton, Francis (Spring Floors), Ltd., Middlesex, England. Spring floors. 557,845, Apr. 22; Serial No. 580,852, published Dec. 25, 1951. Class 12.

Motor Export Manufacturing Co., to The Brown-Brockmeyer Company, Dayton, Ohio. Electric motors. 508,176, Apr. 5, 1949. New certificate. O. G. Apr. 22. Class 21.

Moyer Manufacturing Company, Youngstown, Ohio. Men's and boys' slacks and outer shirts. 558,173, Apr. 22; Serial No. 610,088. Class 39.

Munsey, Frank A., Company, The, to Popular Publications, Inc., New York, N. Y. Monthly magazine. 289,698, renewed Dec. 1, 1951. O. G. Apr. 22. Class 38.

Munsingwear, Inc., Minneapolis, Minn. Men's knitted underwear. 558,067, Apr. 22; Serial No. 614,565, published Feb. 5, 1952. Class 39.

National Aluminate Corporation, Chicago, Ill. Algaecides. 558,050, Apr. 22; Serial No. 613,852, published Jan. 29, 1952. Class 6.

National Biscuit Company: *See*—
Shredded Wheat Company, The.

National Biscuit Company, Jersey City, N. J., and New York, N. Y., to National Biscuit Company, New York, N. Y. Biscuit. 84,849, re-renewed Jan. 9, 1952. O. G. Apr. 22. Class 46.

National Cylinder Gas Company, Chicago, Ill. Electrode carrying cases, welder's carrying cases and cylinders. 557,822, Apr. 22; Serial No. 566,998, published Feb. 5, 1952. Class 2.

National Pressure Cooker Company, Eau Claire, Wis. Electrically heated deep-fat fryer. 558,046, Apr. 22; Serial No. 613,649, published Jan. 1, 1952. Class 21.

National Sweeping Compound Co.: *See*—
Slamates, James P.

National Tool Company, Cleveland, Ohio. All types of milling-cutters, shaper cutters, herringbone gear cutters, etc. 557,799, Apr. 22; Serial No. 537,344, published June 26, 1951. Class 23.

Naumkeag Steam Cotton Company, Salem, Mass. Sheeting, sheets, and pillow cases. 558,134, Apr. 22; Serial No. 586,493. Class 42.

Naylor, H. W., Co.: *See*—
Naylor, Howard W.

Naylor, Howard W., doing business as H. W. Naylor Co., Morris, N. Y. Veterinary medicine. 294,037, renewed May 17, 1952. O. G. Apr. 22. Class 18.

Nedick's, Inc., New York, N. Y. Doughnuts. 557,901, Apr. 22; Serial No. 598,923, published Feb. 5, 1952. Class 46.

Neiman Steel Equipment Company, Inc., Philadelphia, Pa. Steel shelving units, upright divided wall parts-bins, tool storage cabinets, etc. 557,841, Apr. 22; Serial No. 579,205, published Jan. 15, 1952. Class 32.

Neugass, Edwin A., doing business as Plasteck Manufacturing Co., East Port Chester, Conn. Plastic panels, dials, discs, etc., used with electrical components of various instruments. 444,683–4, Apr. 22; Serial Nos. 526,272–3, published Jan. 22, 1952. Class 21.

Newaygo Portland Cement Company, Newaygo, Mich., to Medusa Portland Cement Company, Cleveland, Ohio. Portland cement. 295,402, renewed June 28, 1952. O. G. Apr. 22. Class 12.

New Process Company, Warren, Pa. Cutlery, namely, paring knives, butcher knives, boning knives, etc. 558,119, Apr. 22; Serial No. 512,524. Class 23.

New Shoe Store, The: *See*—
Cohen, Samuel, Shoe Stores, Inc.

Nilson, John L., Chicago, Ill. Golf clubs and parts thereof. 440,505, Sept. 7, 1948. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 22.

North American Rubber Corporation, Los Angeles (South Gate), Calif. Auxiliary automobile cushions and chair pads. 557,914, Apr. 22; Serial No. 600,783, published Jan. 29, 1952. Class 32.

Northampton Potato Company, Northampton, Mass. Potatoes in the natural state. 557,967, Apr. 22; Serial No. 606,720, published Jan. 22, 1952. Class 46.

Northern Signal Company, Milwaukee, Wis. Decorative and animated lighting displays. 557,905, Apr. 22; Serial No. 600,393, published Jan. 22, 1952. Class 21.

Northwest Public Power Association, The, Vancouver, Wash. Informational services. 558,105, Apr. 22; Serial No. 580,090, published Jan. 29, 1952. Class 100.

Nukem Products Corporation, Buffalo, N. Y. Acid-proof resinous cement. 557,988, Apr. 22; Serial No. 609,737, published Jan. 15, 1952. Class 12.

Nurre Companies, Inc., The, Bloomington, Ind. Glass mirrors. 558,048, Apr. 22; Serial No. 613,780, published Jan. 15, 1952. Class 32.

Nutrosol Company: *See*—
Katz, Jacob F.

Oklahoma Furniture Manufacturing Company, Guthrie, Okla. Upholstered furniture. 557,972, Apr. 22; Serial No. 606,927, published Jan. 15, 1952. Class 32.

Old Oaken Bucket, The: *See*—
Barrow, John G., Jr.

Onan, D. W., & Sons Inc., Minneapolis, Minn. Gasoline-driven, and diesel-driven electric generating plants, and separate electric generators. 558,149, Apr. 22; Serial No. 605,757. Class 21.

Orange-Crush Company, Chicago, Ill. Crushed fruits and crushed nuts. 557,824, Apr. 22; Serial No. 568,973, published Jan. 22, 1952. Class 46.

Orlando, J., Co. Inc., New York, N. Y. Olive oil. 557,825, Apr. 22; Serial No. 569,008, published Jan. 29, 1952. Class 46.

Orna Metal Products Co., St. Louis, Mo. Metal office furniture. 558,020, Apr. 22; Serial No. 612,820, published Jan. 29, 1952. Class 32.

Oscar, George, doing business under the assumed name of Hood Sales Co., Portland, Oreg. Puffed appetizer. 558,137, Apr. 22; Serial No. 597,092. Class 46.

Otis Oil Company, Inc., by Ilsley Doubleday & Company, New York, N. Y. Lubricating oil. 282,339, Apr. 21, 1931. Republished Apr. 22. Class 15.

Paden, C. Gilbert, assignor to Whirlaway Egg Washer Company, Harrisburg, Pa. Electrically heated egg washer. 557,895, Apr. 22; Serial No. 595,909, published Jan. 8, 1952. Class 21.

Pallet Devices, Inc., Des Plaines, Ill. Skid platforms. 557,843, Apr. 22; Serial No. 580,506, published Jan. 22, 1952. Class 50.

Pan-Redi Shrimp Co., Thunderbolt, Ga. Frozen shrimp. 558,158, Apr. 22; Serial No. 607,825. Class 46.

Para Laboratories: *See*—
Estrin, Richard.

Parfumerie de Raymond, New York, N. Y. Perfume, toilet water, and talcum powder. 558,027, Apr. 22; Serial No. 613,020, published Jan. 15, 1952. Class 51.

Parker Manufacturing Company, Warren, Ohio. Mops. 558,033, Apr. 22; Serial No. 613,233, published Jan. 22, 1952. Class 29.

Parkleigh Fashions, Inc., New York, N. Y. Ladies' and misses' suits and coats. 557,821, Apr. 22; Serial No. 566,643, published Jan. 29, 1952. Class 39.

Parva Products Company, Chicago, Ill., to Parva Products Company, Mount Carmel, Conn. Buckles. 293,327, renewed Apr. 19, 1952. O. G. Apr. 22. Class 40.

Pearce, Zeb, & Sons, Mesa, Ariz. Poultry and stock feeds. 557,896, Apr. 22; Serial No. 596,638, published Feb. 5, 1952. Class 46.

Pelton Water Wheel Company, The, San Francisco, Calif. Free discharge valves, gate valves, by-pass valves, etc. 557,831, Apr. 22; Serial No. 580,560, published Feb. 27, 1951. Class 13.

Pelton's Spudnuts, Incorporated, Salt Lake City, Utah. Plain and iced doughnuts, twists, bismarks, etc. 557,820, Apr. 22; Serial No. 566,441, published Jan. 29, 1952. Class 46.

Peninsula Packing Company, Monterey, Calif. Canned fish. 557,908, Apr. 22; Serial No. 600,505, published Jan. 22, 1952. Class 46.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Laundry detergents, strongly alkaline detergents, dry cleaning soaps, etc. 557,812, Apr. 22; Serial No. 580,043, published Jan. 22, 1952. Class 52.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Chemical. 557,881, Apr. 22; Serial No. 591,797, published Jan. 29, 1952. Class 6.

Perlman Brothers, Savannah, Ga. Shoes, ladies' and children's dresses, men's and boys' suits. 287,279, Sept. 15, 1931. Republished Apr. 22. Class 39.

Peters, Mary W., Boulder, Colo. Dolls. 558,072, Apr. 22; Serial No. 614,714, published Jan. 29, 1952. Class 22.

Pfizer, Chas., & Co., Inc., Brooklyn, N. Y. Condensed milk substitute. 558,082, Apr. 22; Serial No. 616,124, published Jan. 22, 1952. Class 46.

Phelps, Norman J., assignee: *See*—
Dana Perfumes, Inc.

Philadelphia Leather Goods Corp., Philadelphia, Pa. Hand luggage. 557,847, Apr. 22; Serial No. 581,440, published May 23, 1950. Class 3.

Platt Products Corporation, Lansing, Mich. Constant level oil control valve for oil fired heater. 558,151, Apr. 22; Serial No. 605,969. Class 13.

Pictsweet Foods, Inc., doing business under the trade style Good-Year Products Co., Mount Vernon, Wash. Frozen fresh vegetables, frozen fresh strawberries, and canned corn and peas. 558,005, Apr. 22; Serial No. 611,581, published Dec. 18, 1951. Class 46.

Piedmont Mop Company, Incorporated, Charlotte, N. C. Mops and mop heads. 557,941–5, Apr. 22; Serial Nos. 604,024–8, published Jan. 15, 1952. Class 29.

Piedmont Mop Company, Incorporated, Charlotte, N. C. Mops and mop heads. 557,974, Apr. 22; Serial No. 608,324, published Jan. 22, 1952. Class 29.

Pigeon Hole Parking, Inc., Spokane, Wash. Electrically operated traveling automobile elevators. 558,043, Apr. 22; Serial No. 613,605, published Jan. 1, 1952. Class 21.

Pioneer Salt Company, Philadelphia, Pa. Salt used for melting ice and snow. 557,851, Apr. 22; Serial No. 583,216, published Jan. 29, 1952. Class 6.

Plasteck Manufacturing Co.: *See*—
Neugass, Edwin A.

Plaut & Lederman, Chicago, Ill. Folding metal tables, folding steel chairs, and metal serving carts. 557,952, Apr. 22; Serial No. 604,803, published Jan. 29, 1952. Class 32.

Player, John, & Sons, Limited, Nottingham, England, to The Imperial Tobacco Company (of Great Britain and Ireland), Limited, Bedminister, Bristol, England. Smoking-tobacco, chewing-tobacco, cigars, etc. 37,350, re-renewed Nov. 26, 1951. O. G. Apr. 22. Class 17.

Ploeger-Abbott Company, The: *See*—
Atlantic Seafood Packers, Inc.

Plomb Tool Company, The, Los Angeles, Calif. Tools. 558,057, Apr. 22; Serial No. 614,159, published Jan. 15, 1952. Class 23.

Plymouth Manufacturing Company, Boston, Mass. Men's topcoats and raincoats. 558,042, Apr. 22; Serial No. 613,524, published Jan. 15, 1952. Class 39.

Poirette Corsets, Inc., New York, N. Y. Corsets, girdles, brassières, and combinations of brassières and girdles. 558,058–9, Apr. 22; Serial Nos. 614,161–2, published Jan. 29, 1952. Class 39.

Polk Miller Products Corporation, Richmond, Va. Insecticidal liquid preparation. 557,898, Apr. 22; Serial No. 598,500, published Jan. 22, 1952. Class 52.

Pope, M. R., Eagletown, Okla. Hair and scalp tonic. 527,896, July 18, 1950. Canceled Mar. 10, 1952. O. G. Apr. 22. Class 51.

Popular Publications, Inc.: *See*—
Munsey, Frank A., Company, The.

Poultry Producers of Central California, San Francisco, Calif. Fresh eggs. 557,806, Apr. 22; Serial No. 547,767, published Jan. 22, 1952. Class 46.

Powers, Harold W., doing business as Carew & Powers Co., Boston, Mass. Candies. 557,816, Apr. 22; Serial No. 563,215, published Feb. 5, 1952. Class 46.

Powers, John Robert, Products Co., Inc., Wilmington, Del., and New York, N. Y. Body lotion. 557,910, Apr. 22; Serial No. 600,617, published Dec. 25, 1951. Class 51.

Precise Products Company, Racine, Wis. Voltage adapters, fuse plugs, etc. 557,834, Apr. 22; Serial No. 576,769, published Jan. 1, 1952. Class 21.

Product Engineering and Manufacturing Corporation, Bridgeman, Mich. Die-castings. 557,995, Apr. 22; Serial No. 610,714, published Jan. 22, 1952. Class 14.

Puerto Rico Agricultural Company, San Juan, P. R., and New York, N. Y. Canned, sliced, cubed and crushed pineapple and canned pineapple juices. 557,880, Apr. 22; Serial No. 591,699, published Jan. 22, 1952. Class 46.

Puritan Knitting Mills, Inc., Philadelphia, by The Puritan Sportswear Corp., Altoona, Pa. Bathing suits, bathing trunks, bathing shirts, etc. 290,582, Jan. 12, 1932. Republished Apr. 22. Class 39.

Puritan Sportswear Corp., The: *See*—
Puritan Knitting Mills, Inc.

Quality Frozen Co.: *See*—
Ayres and Roberts.

Radio Advertiser's Guild, The: *See*—
Sause, Peter H.

Ranchaven Industries, Inc., Glenwood Springs, Colo. Logs to be used for building cabins, houses and other buildings. 558,143, Apr. 22; Serial No. 603,699. Class 12.

Reinhardt, Donald S., New York, N. Y. Instructing in the playing of musical brass instruments. 558,110, Apr. 22; Serial No. 585,604, published Jan. 29, 1952. Class 107.

Rendezvous Restaurant, The, Monroe, La. Balkan salad dressing. 558,091, Apr. 22; Serial No. 617,511, published Feb. 5, 1952. Class 46.

Renna, Vito M., doing business as Coast Store Fixture and Manufacturing Company, Los Angeles, Calif. Wardrobes and refreshment bars. 557,878, Apr. 22; Serial No. 591,514, published Jan. 15, 1952. Class 32.

Revelation Supplies Limited, Chiswick, London, England. Suitcases, week-end cases, attaché cases, etc. 557,954, Apr. 22; Serial No. 605,059, published Jan. 15, 1952. Class 3.

Rexall Drug Company: *See*—
United Drug Company.

Richmond Broom Company, Richmond, Va. Household brooms. 557,909, Apr. 22; Serial No. 600,510, published Jan. 15, 1952. Class 29.

Robbins, Anatole, Inc., Los Angeles, Calif. Cologne. 558,056, Apr. 22; Serial No. 614,033, published Jan. 15, 1952. Class 51.

Roberts, J. W., Limited, Leeds, England. Thermal insulation material, asbestos fibre, asbestos sheets and panels, etc. 558,008, Apr. 22; Serial No. 611,723, published Jan. 15, 1952. Class 12.

Rockhill Radio, New York, N. Y. Entertainment service. 558,116, Apr. 22; Serial No. 611,724, published Jan. 29, 1952. Class 107.

Rodrigues, Arguelles & Company, by Romeo y Julieta, Fábrica de Tabacos, S. A., Havana, Cuba. Cigars. 51,714, Apr. 24, 1906. Republished Apr. 22. Class 17.

Romeo y Julieta, Fábrica de Tabacos, S. A.: *See*—
Rodrigues, Arguelles & Company.

Ropher Tackle Company, The: *See*—
Townsend, LeRoy E.

Rothschild, Sigmond, Company, Houston, Tex. Fertilizers. 317,907, Oct. 9, 1934. Canceled Mar. 18, 1952. O. G. Apr. 22. Class 10.

Rubinstein, Helena, Inc., New York, N. Y. Hair rinse and lipstick. 557,929–30, Apr. 22; Serial Nos. 603,254–5, published Jan. 8, 1952. Class 51.

Russell, E. J., doing business as Independent Growers Co., Salinas, Calif. Fresh vegetables. 557,917, Apr. 22; Serial No. 601,378, published Dec. 25, 1951. Class 46.

SF Laboratories, The: *See*—
Floreskul, Stanley.

Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif., also doing business as Fairfax Bread Company, Washington, D. C., and various other places. Bakery goods. 557,839, Apr. 22; Serial No. 578,169, published Feb. 5, 1952. Class 46.

Samica-Société des Applications du Mica, Paris, France. Electrical insulating material. 558,013, Apr. 22; Serial No. 612,181, published Feb. 5, 1952. Class 21.

Samson Cordage Works: *See*—
Icard Cordage Company.

San Diego Fruit & Produce Company, San Diego, Calif. Fresh apples, pears, peaches, plums, etc. 276,730, Oct. 28, 1930. Republished Apr. 22. Class 46.

Sanitary Food Mfg. Co.: *See*—
Griggs, Cooper & Co.

Santé Foods, Inc., New York, N. Y. Farmer cheese, creamed cottage cheese, sour cream, etc. 558,006, Apr. 22; Serial No. 611,620, published Jan. 22, 1952. Class 46.

Sause, Peter H., doing business under the firm names and styles of The Radio Advertiser's Guild and Peter H. Sause Enterprises, New York, N. Y. Producing for radio broadcasting stations a series of radio programs, etc. 558,098, Apr. 22; Serial No. 526,517, published Jan. 29, 1952. Class 101.

Sause, Peter H., Enterprises: *See*—
Sause, Peter H.

Saxonburg Potteries: *See*—
Aderhold, George.

Schlein, Samuel E., Inc., New York, N. Y. Men's and boys' outer wearing apparel. 558,139, Apr. 22; Serial No. 598,868. Class 39.

Schlesinger, Donald, New York, N. Y. Hair cloth in the piece. 518,021, Nov. 22, 1949. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 42.

Scholfield Service, Inc., New York, to Wheeldex Manufacturing Co., Inc., White Plains, N. Y. Filing cabinets. 293,670, renewed May 3, 1952. O. G. Apr. 22. Class 32.

Sclafani Brothers, to Joseph L. Sclafani, Inc., Brooklyn, N. Y. Canned vegetables and canned fish. 288,218, renewed Oct. 20, 1951. O. G. Apr. 22. Class 46.

Sclafani Brothers, to Joseph L. Sclafani, Inc., Brooklyn, N. Y. Olive oil. 289,928, renewed Dec. 15, 1951. O. G. Apr. 22. Class 46.

Sclafani, Joseph L., Inc.: *See*—
Sclafani Brothers.

Sealube Company, The, Reading, Mass. Plastic pipe joint compound. 557,926, Apr. 22; Serial No. 602,643, published Jan. 15, 1952. Class 12.

Sebastopol Cooperative Cannery, Sebastopol, Calif. Canned apple sauce. 558,004, Apr. 22; Serial No. 611,545, published Dec. 11, 1951. Class 46.

Seidlitz Paint & Varnish Company, Kansas City, Mo. Paint, varnish, lacquer, etc. 558,092, Apr. 22; Serial No. 617,971, published Nov. 20, 1951. Class 16.

Service Feed Company, Kansas City, Mo. Livestock and poultry feeds. 558,168, Apr. 22; Serial No. 612,563. Class 46.

Sharples Chemicals Inc., Philadelphia, Pa. Vulcanization accelerators. 558,068, Apr. 22; Serial No. 614,575, published Jan. 29, 1952. Class 6.

Sharples Chemicals Inc., Philadelphia, Pa. Vulcanization accelerators. 558,069, Apr. 22; Serial No. 614,577, published Jan. 29, 1952. Class 6.

Sharples Chemicals Inc., Philadelphia, Pa. Vulcanization accelerators. 558,071, Apr. 22; Serial No. 614,635, published Jan. 29, 1952. Class 6.

Shellmar Products Corporation, Chicago, Ill. Bags. 558,129, Apr. 22; Serial No. 584,927. Class 2.

Shell Oil Company, San Francisco, Calif., to Shell Oil Company, New York, N. Y. Petroleum coke. 290,662, renewed Jan. 12, 1952. O. G. Apr. 22. Class 1.

Shell Oil Company, San Francisco, Calif., to Shell Oil Company, New York, N. Y. Petroleum coke. 290,664, renewed Jan. 12, 1952. O. G. Apr. 22. Class 1.

Sherrod Shirt Company, High Point, N. C. Work shirts. 557,997, Apr. 22: Serial No. 610,928, published Jan. 8, 1952. Class 39.

Shifman Bros., Newark, N. J. Mattresses. 557,915, Apr. 22: Serial No. 600,920, published Jan. 29, 1952. Class 32.

Shredded Wheat Company, The, Niagara Falls, to National Biscuit Company, New York, N. Y. Cereal biscuit. 85,186, re-renewed Jan. 30, 1952. O. G. Apr. 22. Class 46.

Siamatas, James P., doing business as National Sweeping Compound Co., Ipswich and Rowley, Mass. Sweeping compound. 557,875, Apr. 22; Serial No. 591,110, published Jan. 22, 1952. Class 52.

Silent Maid Co., Hollywood, Calif. Electric garbage disposal units. 558,017, Apr. 22; Serial No. 612,565, published Feb. 5, 1952. Class 21.

Singer, Irving, New York, N. Y. Men's hats. 558,126, Apr. 22; Serial No. 580,520. Class 39.

Siris, A. J., Products Corp., New York, N. Y. Powder puffs. 558,001, Apr. 22; Serial No. 611,457, published Jan. 15, 1952. Class 29.

Smith, Samuel R., Portland, Oreg. Diving boards. 558,018, Apr. 22; Serial No. 612,711, published Jan. 29, 1952. Class 22.

Smock, W. B., Mfg.: *See*—
Smock, William B.

Smock, William B., doing business as W. B. Smock Mfg., Ridgecrest, Calif. Barbecue sauce. 557,866, Aug. 22; Serial No. 588,902, published Dec. 11, 1951. Class 46.

Société Anonyme Chocolat Tobler: *See*—
Aktiengesellschaft Chocolat Tobler.

Societe Anonyme: Le Carbone Lorraine, Paris, France. Arc light carbons. 558,062, Apr. 22; Serial No. 614,317, published Dec. 18, 1951. Class 21.

Society Brand Clothes, Inc., Chicago, Ill. Men's clothing. 557,852, Apr. 22; Serial No. 584,163, published Feb. 27, 1951. Class 39.

Soundscriber Corporation, The, New Haven, Conn. Electric sound recording and reproducing machines and parts thereof. 557,861, Apr. 22; Serial No. 587,658, published Oct. 24, 1950. Class 21.

South Bend Bait Company, South Bend, Ind. Fishing rods, fishing reels, fishing lines, and artificial fish baits and lures. 558,121, Apr. 22; Serial No. 545,906. Class 22.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 558,087, Apr. 22; Serial No. 616,976, published Feb. 5, 1952. Class 2.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 558,088, Apr. 22; Serial No. 616,982, published Feb. 5, 1952. Class 2.

Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass. Paper bags. 558,089, Apr. 22; Serial No. 616,985, published Feb. 5, 1952. Class 2.

Sprague Electric Company, North Adams, Mass. Electrical resistors. 558,049, Apr. 22; Serial No. 613,791, published Jan. 1, 1952. Class 21.

Spud Chips Inc., Greeley, Colo. Potato chips. 558,086, Apr. 22; Serial No. 616,878, published Jan. 22, 1952. Class 46.

Spur Distributing Co. Inc., Nashville, Tenn. Gasoline and lubricating oils. 291,502, renewed Feb. 9, 1952. O. G. Apr. 22. Class 15.

Stadium Underwear Company, Incorporated, Baltimore, Md. Pajamas. 299,057, Nov. 22, 1932. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 39.

Standard Brands Incorporated, New York, N. Y. Molasses. 557,975, Apr. 22; Serial No. 608,386, published Jan. 22, 1952. Class 46.

Standard Oil Company: *See*—
Independent Oil and Gas Company.

Stein, Hall & Company, Inc., New York, N. Y. Corn starch, and grated and shredded coconut. 557,833, Apr. 22; Serial No. 575,098, published Feb. 5, 1952. Class 46.

Stein, S., & Co., Inc., New York, N. Y. Woolen fabrics. 558,120, Apr. 22; Serial No. 541,047. Class 42.

Stevenson Line, Inc., New York, N. Y. Berth services. 558,177, Apr. 22; Serial No. 597,635. Class 105.

Stowe Hardware & Supply Company, Kansas City, Mo. Plow shares, lister shares, middle burster shares, etc. 294,190, renewed May 24, 1952. O. G. Apr. 22. Class 23.

Sturm, Leonard W., doing business as Development Engineering Company, Decatur, Ill. Negative film developer. 557,902, Apr. 22; Serial No. 598,967, published Jan. 29, 1952. Class 6.

Style Undies, Inc., New York, N. Y. Slips for little girls. 558,159, Apr. 22; Serial No. 608,438. Class 39.

Sue Ann Food Products Corporation, Chicago, Ill. Salad dressing. 558,074, Apr. 22; Serial No. 614,910, published Jan. 22, 1952. Class 46.

Sunbeam Corporation: *See*—
Chicago Flexible Shaft Company.

Supreme Dress Co., Milwaukee, Wis. Ladies' dresses and aprons. 558,171, Apr. 22; Serial No. 614,173. Class 39.

Swift & Company: *See*—
Boston Fresh Tripe Co.

Swisher, Jno. H., & Son, Inc., Jacksonville, Fla. Cigars. 290,377, Jan. 5, 1932. Republished Apr. 22. Class 17.

Swivelier Company, Inc., New York, N. Y. Electrical lighting units and parts thereof. 557,920, Apr. 22; Serial No. 601,697, published Jan. 1, 1952. Class 21.

Technicon Company, The, New York, N. Y. Preparations or histological reagents. 558,031, Apr. 22; Serial No. 613,147, published Jan. 29, 1952. Class 6.

Tee-Vee Toys, Inc., Cambridge, Mass. Toys. 558,093, Apr. 22; Serial No. 618,064, published Jan. 29, 1952. Class 22.

Tennessee Products & Chemical Corporation, Nashville, Tenn. Insulating material. 557,863, Apr. 22; Serial No. 588,334, published Jan. 22, 1952. Class 12.

Texan Battery Company, Cleburne, Tex. Storage batteries. 557,872, Apr. 22; Serial No. 590,192, published Oct. 17, 1950. Class 21.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil and greases. 558,034, Apr. 22; Serial No. 613,249, published Dec. 18, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil. 558,035, Apr. 22; Serial No. 613,252, published Dec. 18, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. 558,036, Apr. 22; Serial No. 613,253, published Dec. 18, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oils and greases. 558,037, Apr. 22; Serial No. 613,259, published Dec. 18, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil and greases. 558,038, Apr. 22; Serial No. 613,264, published Dec. 18, 1951. Class 15.

Todd Company, Inc., The, Rochester, N. Y. Business forms. 294,297, renewed May 24, 1952. O. G. Apr. 22. Class 37.

Townsend, LeRoy E., doing business under the fictitious name The Ropher Tackle Company, West Los Angeles, Calif. Artificial fishing lures. 558,095, Apr. 22; Serial No. 618,661, published Jan. 29, 1952. Class 22.

Traford Fabrics, Inc., now by change of name Travis Fabrics, Inc., New York, N. Y. Fabrics. 554,845, Feb. 12, 1952. Corrected. O. G. Apr. 22. Class 42.

Travis Fabrics, Inc.: *See*—
Traford Fabrics, Inc.

Trico, Inc., Birmingham, Ala. Blend of coffee and chicory. 557,993, Apr. 22; Serial No. 610,301, published Jan. 22, 1952. Class 46.

Trinidad Bean & Elevator Company, The, Denver, Colo. Dried peas, dried lentils, and dried beans. 557,801, Apr. 22; Serial No. 540,941, published Jan. 22, 1952. Class 46.

Trinidad Bean & Elevator Company, The, Denver, Colo. Dried beans and dried peas. 557,802, Apr. 22; Serial No. 540,942, published Jan. 22, 1952. Class 46.

Troy Wholesale Corporation, Troy, N. Y. Hosiery, sweaters, and underwear. 286,192, Aug. 18, 1931. Republished Apr. 22. Class 39.

Truscon Steel Company, Youngstown, Ohio. Products made of steel and other materials, metal laths and accessories, etc. 557,946, Apr. 22; Serial No. 604,042, published Jan. 15, 1952. Class 12.

Tube-Kote, Inc., Houston, Tex. Applying a plastic base covering to both new and used mechanical devices. 558,108, Apr. 22; Serial No. 582,151, published Jan. 29, 1952. Class 106.

Union Starch and Refining Company, Columbus, Ind. Corn syrup. 557,868, Apr. 22; Serial No. 589,816, published Jan. 22, 1952. Class 46.

United Broadcasting Company, Cleveland and Akron, Ohio. Radio program broadcasting services. 558,176, Apr. 22; Serial No. 561,173. Class 104.

United Drug Company, Boston, Mass., to Rexall Drug Company, Los Angeles, Calif. Medicinal tonic. 291,953, renewed Feb. 23, 1952. O. G. Apr. 22. Class 18.

United Manufacturing and Service Co., Milwaukee, Wis. Junction blocks which become part of prefabricated electrical wiring harnesses and systems. 558,173, Apr. 22; Serial No. 619,318. Class 21.

United Metal Box Co., Inc., Brooklyn, N. Y. Cabinets. 557,886–7, Apr. 22; Serial Nos. 593,249–50, published Jan. 29, 1952. Class 32.

United States Gypsum Company, Chicago, Ill. Asphalt shingles. 558,032, Apr. 22; Serial No. 613,148, published Dec. 25, 1951. Class 12.

U. S. Handbag Corporation, New York, N. Y. Ladies' handbags, wallets, travelling cases, and beach bags. 558,063, Apr. 22; Serial No. 614,322, published Jan. 15, 1952. Class 3.

U. S. Handbag Corporation, New York, N. Y. Ladies' handbags, wallets, travelling cases, and beach bags. 558,065, Apr. 22; Serial No. 614,525, published Jan. 15, 1952. Class 3.

U. S. Handbag Corporation, New York, N. Y. Ladies' handbags, wallets, travelling cases and beach bags. 558,070, Apr. 22; Serial No. 614,586, published Jan. 15, 1952. Class 3.

United States Oralizer Corporation, New York, N. Y. Combination tooth-brushes and tongue cleaners. 557,991, Apr. 22; Serial No. 609,988, published Jan. 15, 1952. Class 29.

United States Steel Company: *See*—
American Steel and Wire Company of New Jersey, The.

United States Steel Company, Pittsburgh, Pa. Steel plates. 557,992, Apr. 22; Serial No. 610,197, published Jan. 22, 1952. Class 14.

Universal Oil Products Company, Chicago, Ill. Solid catalyst. 557,965, Apr. 22; Serial No. 605,933, published Jan. 29, 1952. Class 6.

Utilitex Company, New York, N. Y. Ponchos and separate hoods contained in a pouch. 558,150, Apr. 22; Serial No. 605,931. Class 39.

Van Dusen Harrington Co., Minneapolis, Minn. Wheat flour. 557,805, Apr. 22; Serial No. 545,666, published Jan. 22, 1952. Class 46.

Van Raalte Company, Inc., New York, N. Y. Laces in the form of piece goods. 295,350, renewed June 28, 1952. O. G. Apr. 22. Class 42.

Van Raalte Company, Inc., New York, N. Y. Pajamas. 295,603, renewed July 5, 1952. O. G. Apr. 22. Class 39.

Vermiculite Institute, Evanston, Ill. Expanded vermiculite products. 558,117, Apr. 22; Serial No. 578,239, published Jan. 15, 1952. Class 12.

Video Corporation of America, Wilmington, Del., and New York, N. Y. Electronic devices. 557,844, Apr. 22; Serial No. 580,703, published Jan. 1, 1952. Class 21.

Viking Products, Vicksburg, Mich. Electric welding guns. 557,982, Apr. 22; Serial No. 609,062, published Jan. 29, 1952. Class 21.

Voigt Milling Company, Grand Rapids, Mich. Enriched wheat flour, wholewheat flour, cake flour, etc. 558,079, Apr. 22; Serial No. 615,587, published Jan. 15, 1952. Class 46.

Vulcan Manufacturing Co., Inc., assignee: *See*—
March Engineering Company.

WABCO: *See*—
Bowman, William A.

Wagner, George R., Creswell, Oreg. Entertainment service. 558,104, Apr. 22; Serial No. 556,499, published Jan. 29, 1952. Class 107.

Wallace Manufacturing Company, North Kansas City, Mo. Decorative wallboarding. 558,002, Apr. 22; Serial No. 611,463, published Jan. 15, 1952. Class 12.

Warner Brothers Company, The, Bridgeport, Conn. Packing boxes. 291,588, renewed Feb. 23, 1952. O. G. Apr. 22. Class 2.

Washington Manufacturing Company, Nashville, Tenn. Overall suits. 387,338, May 13, 1941. Canceled Mar. 14, 1952. O. G. Apr. 22. Class 39.

Washington, Martha, Candies Co., Chicago, Ill. Ice cream. 557,949, Apr. 22; Serial No. 604,334, published Jan. 22, 1952. Class 46.

Weisberg, Bernard E., New York, N. Y. Cooking utensils. 547,680, Sept. 4, 1951. Canceled Mar. 24, 1952. O. G. Apr. 22. Class 13.

Weisberg, Bernard E., New York, N. Y. Earthenware and ceramic dinnerware. 547,681, Sept. 4, 1951. Canceled Mar. 24, 1952. O. G. Apr. 22. Class 30.

Weller, James A., Jr., doing business as The Welmont Packing Co., New York, to J. A. Weller, Jr., doing business as The Welmont Packing Co., Goshen and New York, N. Y. Pickles. 291,798, renewed Feb. 23, 1952. O. G. Apr. 22. Class 46.

Welmont Packing Co., The: *See*—
Weller, James A., Jr.

West Disinfecting Company, Long Island City, N. Y. Industrial aprons and sleeves. 557,999, Apr. 22; Serial No. 611,162, published Jan. 15, 1952. Class 39.

West Disinfecting Company, Long Island City, N. Y. Hand mop, wax hand mop. 558,000, Apr. 22; Serial No. 611,164, published Jan. 15, 1952. Class 29.

Wheeldex Manufacturing Co., Inc.: *See*—
Scholfield Service, Inc.

Whirlaway Egg Washer Company: *See*—
Paden, C. Gilbert.

Whiteside, Grant T., doing business as Grant Company, Sabina, Ohio. Cosmetics and toilet preparations. 557,916, Apr. 22; Serial No. 601,293, published Dec. 25, 1951. Class 51.

White Valley Corporation, Amsterdam, N. Y. Men's, women's and children's lumber jackets, bomber jackets, surcoat jackets, etc. 557,957, Apr. 22; Serial No. 605,187, published Jan. 15, 1952. Class 39.

Whiting Corporation, Harvey, Ill. Electrically driven hoists and traveling cranes and parts thereof. 557,823, Apr. 22: Serial No. 568,820, published Jan. 1, 1952. Class 21.

Wilson Brothers, Chicago, Ill. Men's underwear. 558,166, Apr. 22; Serial No. 611,989. Class 39.

Winer Manufacturing Co., Inc., Hammond, Ind. Men's outer jackets. 557,911, Apr. 22; Serial No. 600,637, published Jan. 8, 1952. Class 39.

Winer Manufacturing Co., Inc., Hammond, Ind. Men's outer jackets. 557,918–19, Apr. 22; Serial Nos. 601,388–9, published Jan. 8, 1952. Class 39.

Wise Potato Chip Co., Berwick, Pa. Potato chips 558,124, Apr. 22; Serial No. 569,787. Class 46.

Wright & McGill Co., Denver, Colo. Fish hooks. 557,985, Apr. 22; Serial No. 609,581, published Jan. 29, 1952. Class 22.

Wyandotte Chemicals Corporation: *See*—
Ford, J. B., Company, The.

Wyandotte Chemicals Corporation, Wyandotte, Mich. Alkaline composition. 557,795, Apr. 22; Serial No. 533,101, published Jan. 22, 1952. Class 52.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Petroleum coke. Shell Oil Company. 290,662, renewed Jan. 12, 1952. O. G. Apr. 22.

Petroleum coke. Shell Oil Company. 290,664, renewed Jan. 12, 1952. O. G. Apr. 22.

CLASS 2

Bags. Shellmar Products Corporation. 558,129, Apr. 22; Serial No. 584,927.

Bags, Paper. Southern Advance Bag & Paper Co. Inc. 558,087, Apr. 22; Serial No. 616,976, published Feb. 5, 1952.

Bags, Paper. Southern Advance Bag & Paper Co. Inc. 558,088, Apr. 22; Serial No. 616,982, published Feb. 5, 1952.

Bags, Paper. Southern Advance Bag & Paper Co. Inc. 558,089, Apr. 22; Serial No. 616,985, published Feb. 5, 1952.

Boxes, Packing. The Warner Brothers Company. 291,588, renewed Feb. 23, 1952. O. G. Apr. 22.

Card-board salt and pepper shakers. H. W. Ellswood. 558,148, Apr. 22; Serial No. 605,474.

Cases, Electrode carrying, welder's carrying cases and cylinders. National Cylinder Gas Company. 557,822, Apr. 22; Serial No. 566,998, published Feb. 5, 1952.

Casks and barrels. The Greif Bros Co. 86,528–30, re-renewed May 14, 1952. O. G. Apr. 22.
Pails, Shipping, garbage cans, and waste baskets. J & L Steel Barrel Company. 557,913, Apr. 22; Serial No. 600,726, published Feb. 5, 1952.

CLASS 3

Hand bags. Geo. E. Keith Company. 293,013, renewed Apr. 5, 1952. O. G. Apr. 22.
Handbags, Ladies'. B. Altman & Co. 558,014, Apr. 22; Serial No. 612,293, published Jan. 15, 1952.
Handbags, Ladies'. Samuel R. Goldsmith & Son, Inc. 558,053, Apr. 22; Serial No. 613,912, published Jan. 15, 1952.
Handbags, Ladies'. Handbag Metal Specialties, Inc. 557,960, Apr. 22; Serial No. 605,656, published Jan. 15, 1952.
Handbags, wallets, travelling cases and beach bags, Ladies'. U. S. Handbag Corporation. 558,063, Apr. 22; Serial No. 614,322, published Jan. 15, 1952.
Handbags, wallets, travelling cases and beach bags, Ladies'. U. S. Handbag Corporation. 558,065, Apr. 22; Serial No. 614,525, published Jan. 15, 1952.
Handbags, wallets, travelling cases and beach bags, Ladies'. U. S. Handbag Corporation. 558,070, Apr. 22; Serial No. 614,586, published Jan. 15, 1952.
Luggage, Hand. Philadelphia Leather Goods Corp. 557,847, Apr. 22; Serial No. 581,440, published May 23, 1950.
Portable bar consisting of a fitted piece of luggage with compartments therein. R. G. Ewell. 557,963, Apr. 22; Serial No. 605,788, published Jan. 15, 1952.
Suitcases, week-end cases, attache cases, etc. Revelation Supplies Limited. 557,954, Apr. 22; Serial No. 605,059, published Jan. 15, 1952.

CLASS 4

Shoe shine kit. The Kiwi Polish Company Proprietary Limited. 558,164, Apr. 22; Serial No. 610,178.

CLASS 6

Algaecides. National Aluminate Corporation. 558,050, Apr. 22; Serial No. 613,852, published Jan. 29, 1952.
Anti-freeze compounds. Champion Soap Co. Inc. 289,144, renewed Nov. 17, 1951. O. G. Apr. 22.
Anti-spattering compositions for welding. All-Sil Welding Metals, Inc. 558,076, Apr. 22; Serial No. 614,921, published Jan. 29, 1952.
Chemical. The Pennsylvania Salt Manufacturing Company. 557,881, Apr. 22; Serial No. 591,797, published Jan. 29, 1952.
Chemical compound. E. I. du Pont de Nemours and Company. 558,066, Apr. 22; Serial No. 614,545, published Jan. 29, 1952.
Chemical preparation. W. F. Fancourt Co. 558,078, Apr. 22; Serial No. 615,170, published Jan. 29, 1952.
Chemical substances, compounds and compositions. General Dyestuff Corporation. 558,073, Apr. 22; Serial No. 614,768, published Jan. 29, 1952.
Chemicals. E. I. du Pont de Nemours and Company. 291,950, Feb. 23, 1932. Republished Apr. 22.
Colloidal graphite. Acheson Oildag Company. 294,808, renewed June 7, 1952. O. G. Apr. 22.
Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 292,875, Mar. 29, 1932. Republished Apr. 22.
Fluorinated hydrocarbons. Kinetic Chemicals, Inc. 293,851, renewed May 10, 1952. O. G. Apr. 22.
Hydrogen peroxide, ammonium persulphate, and potassium persulphate. Buffalo Electro-Chemical Company, Inc. 290,552, renewed Jan. 12, 1952. O. G. Apr. 22.
Insecticide. Davis Manufacturing Co., Inc. 557,940, Apr. 22; Serial No. 603,771, published July 31, 1951.
Metal hardening compositions. All-Sil Welding Metals, Inc. 558,075, Apr. 22; Serial No. 614,920, published Jan. 29, 1952.
Negative film developer. L. W. Sturm. 557,902, Apr. 22; Serial No. 598,967, published Jan. 29, 1952.
Preparations or histological reagents. The Technicon Company. 558,031, Apr. 22; Serial No. 613,147, published Jan. 29, 1952.
Salt used for melting ice and snow. Pioneer Salt Company. 557,851, Apr. 22; Serial No. 583,216, published Jan. 29, 1952.
Solid catalyst. Universal Oil Products Company. 557,965, Apr. 22; Serial No. 605,933, published Jan. 29, 1952.
Solutions of salts of chlorinated phenols. Monsanto Chemical Company. 557,810, Apr. 22; Serial No. 557,861, published Jan. 22, 1952.
Vulcanization accelerators. Sharples Chemicals Inc. 558,068, Apr. 22; Serial No. 614,575, published Jan. 29, 1952.
Vulcanization accelerators. Sharples Chemicals Inc. 558,069, Apr. 22; Serial No. 614,577, published Jan. 29, 1952.
Vulcanization accelerators. Sharples Chemicals Inc. 558,071, Apr. 22; Serial No. 614,835, published Jan. 29, 1952.

CLASS 7

Sashcord and clotheslines. Icard Cordage Company. 293,157, renewed Apr. 12, 1952. O. G. Apr. 22.

CLASS 8

Cigarette lighters and dispensers, Combined electric. Chicago Flexible Shaft Company. 291,281, renewed Feb. 9, 1952. O. G. Apr. 22.

CLASS 10

Fertilizers. Sigmond Rothschild Company. 317,907, Oct. 9, 1934. Canceled Mar. 18, 1952. O. G. Apr. 22.

CLASS 12

Aggregate clay tile, Extruded two-piece. O. W. Ingle. 558,003, Apr. 22; Serial No. 611,522, published Jan. 15, 1952.
Aluminum suspension system for acoustical tiles. The Mid-West Acoustical & Supply Co. 557,873, Apr. 22; Serial No. 590,231, published Jan. 1, 1952.
Building fronts. Martin Hoffman Co. 557,969, Apr. 22; Serial No. 606,775, published Jan. 15, 1952.
Caulking compound and glazing compound. Macklanburg-Duncan Company. 558,145, Apr. 22; Serial No. 605,315.
Cement, Acid-proof resinous. Nukem Products Corporation. 557,988, Apr. 22; Serial No. 609,737, published Jan. 15, 1952.
Cement, Portland. Newaygo Portland Cement Company. 295,402, renewed June 28, 1952. O. G. Apr. 22.
Cement, Roofing. American Asphalt Roof Corporation. 557,968, Apr. 22; Serial No. 606,745, published Jan. 8, 1952.
Cement, Roofing, bituminous base coating compositions, etc. Allied Chemical & Dye Corporation. 557,927, Apr. 22; Serial No. 602,875, published Jan. 15, 1952.
Expanded vermiculite products. Vermiculite Institute. 558,117, Apr. 22; Serial No. 578,239, published Jan. 15, 1952.
Glazing compound and putties. Macklanburg-Duncan Company. 558,146, Apr. 22; Serial No. 605,316.
Granulated or powdered refractory materials. Blair Products. 557,981, Apr. 22; Serial No. 608,697, published Jan. 8, 1952.
Insulating material. Tennessee Products & Chemical Corporation. 557,863, Apr. 22; Serial No. 588,334, published Jan. 22, 1952.
Logs to be used for building cabins, houses, and other buildings. Ranchaven Industries, Inc. 558,143, Apr. 22; Serial No. 603,699.
Metal products—namely awnings, canopies, etc. The Falls Stamping & Welding Co. 557,871, Apr. 22; Serial No. 590,016, published Jan. 1, 1952.
Metal trims. The B. & T. Metals Company. 557,849, Apr. 22; Serial No. 581,930, published Dec. 25, 1951.
Metal weather stripping. Macklanburg-Duncan Company. 558,147, Apr. 22; Serial No. 605,317.
Mineral-surfaced asphalt saturated felt shingles. Globe Roofing Products Co., Inc. 558,028, Apr. 22; Serial No. 613,064, published Dec. 25, 1951.
Multicolored insulated sidings. Brixite Manufacturing Company, Inc. 558,140, Apr. 22; Serial No. 601,300.
Plastic pipe joint compound. The Sealube Company. 557,926, Apr. 22; Serial No. 602,643, published Jan. 15, 1952.
Plywood. Harbor Plywood Corporation. 557,996, Apr. 22; Serial No. 610,787, published Jan. 15, 1952.
Products made of steel and other materials, metal lath and accessories, etc. Truscon Steel Company. 557,946, Apr. 22; Serial No. 604,042, published Jan. 15, 1952.
Shingles, Asphalt. United States Gypsum Company. 558,032, Apr. 22; Serial No. 613,148, published Dec. 25, 1951.
Spring floors. Francis Morton (Spring Floors) Ltd. 557,845, Apr. 22; Serial No. 580,852, published Dec. 25, 1951.
Thermal insulation material, asbestos fibre, asbestos sheets and panels, etc. J. W. Roberts Limited. 558,008, Apr. 22; Serial No. 611,723, published Jan. 15, 1952.
Wallboarding, Decorative. Wallace Manufacturing Company. 558,002, Apr. 22; Serial No. 611,463, published Jan. 15, 1952.
Windows. W. A. Bowman. 557,950, Apr. 22; Serial No. 604,417, published Jan. 22, 1952.

CLASS 13

Constant level oil control valve for oil fired heater. Piatt Products Corporation. 558,151, Apr. 22; Serial No. 605,969.
Heating materials. Crane Co. 293,974, renewed May 10, 10, 1952. O. G. Apr. 22.
Metal clips for wiring and tubing, Rubber coated plating racks and grommets. Collord, Incorporated. 558,135, Apr. 22; Serial No. 590,353.
Utensils, Cooking. B. E. Weisberg. 547,680, Sept. 4, 1951. Canceled Mar. 24, 1952. O. G. Apr. 22.
Valves, Free discharge, gate valves, by-pass valves, etc. The Pelton Water Wheel Company. 557,831, Apr. 22; Serial No. 580,560, published Feb. 27, 1951.

CLASS 14

Die-castings. Product Engineering and Manufacturing Corporation. 557,995, Apr. 22; Serial No. 610,714, published Jan. 22, 1952.

Packaging material consisting of aluminum foil. Acme Backing Corporation. 557,980, Apr. 22; Serial No. 608,691, published Jan. 22, 1952.
Refrigeration packaging products—namely, aluminum wrapping foil. International Harvester Company. 557,921, Apr. 22; Serial No. 601,794, published July 17, 1951.
Steel plates. United States Steel Company. 557,992, Apr. 22; Serial No. 610,197, published Jan. 22, 1952.
Steel sheets, steel strips, steel bars, etc. Edgcomb Steel Company. 393,127, Jan. 27, 1942. Republished Apr. 22.
Steel strip, Cold rolled, and sheet and hot rolled steel strip, sheet and plate, bars and structural shapes. Kaiser Steel Corporation. 557,939, Apr. 22; Serial No. 603,687, published Jan. 29, 1952.

CLASS 15

Gasoline and lubricating oils. Spur Distributing Co. Inc. 291,502, renewed Feb. 9, 1952. O. G. Apr. 22.
Grease, Lubricating. Tide Water Associated Oil Company. 558,036, Apr. 22; Serial No. 613,253, published Dec. 18, 1951.
Oil and greases, Lubricating. Tide Water Associated Oil Company. 558,034, Apr. 22; Serial No. 613,249, published Dec. 18, 1951.
Oil and greases, Lubricating. Tide Water Associated Oil Company. 558,038, Apr. 22; Serial No. 613,264, published Dec. 18, 1951.
Oil, Lubricating. Otis Oil Company, Inc. 282,339, Apr. 21, 1931. Republished Apr. 22.
Oil, Lubricating. Tide Water Associated Oil Company. 558,035, Apr. 22; Serial No. 613,252, published Dec. 18, 1951.
Oils and greases, Lubricating. Tide Water Associated Oil Company. 558,037, Apr. 22; Serial No. 613,259, published Dec. 18, 1951.
Oils, Lubricating. Independent Oil and Gas Company. 213,587, June 1, 1926. Republished Apr. 22.

CLASS 16

Coating composition, Clear, water repellant masonry. Con-Cor Paint Company. 558,010, Apr. 22; Serial No. 611,941, published Dec. 25, 1951.
Paint, Anticorrosive and antifouling, mixed paint, etc. Holzapfel's Compositions Company, Limited. 61,631, Apr. 2, 1907. Republished Apr. 22.
Paint, varnish, lacquer, etc. Seidlitz Paint & Varnish Company. 558,092, Apr. 22; Serial No. 617,971, published Nov. 20, 1951.
Paints, Ready mixed, semi-liquid paints, paste paints, etc. Acme White Lead & Color Works. 291,120, renewed Jan. 26, 1952. O. G. Apr. 22.
Protective coating floor wax, a lacquer-like penetrating floor seal and floor finish. G. B. Hunt. 558,122, Apr. 22; Serial No. 549,639.

CLASS 17

Cigars. Rodrigues, Arguelles & Company. 51,714, Apr. 24, 1906. Republished Apr. 22.
Cigars. Jno. H. Swisher & Son, Inc. 290,377, Jan. 5, 1932. Republished Apr. 22.
Cigars, cigarettes and manufactured tobacco. Lutgarda Gener y Seycher. 86,339–40, re-renewed Apr. 30, 1952. O. G. Apr. 22.
Smoking-tobacco, chewing-tobacco, cigars, etc. John Player & Sons, Limited. 37,350, re-renewed Nov. 26, 1951. O. G. Apr. 22.

CLASS 18

Liniment. A. G. Graser. 558,141, Apr. 22; Serial No. 601,498.
Medicine, Veterinary. H. W. Naylor. 294,037, renewed May 17, 1952. O. G. Apr. 22.
Natural and synthetic essential oils, aromatic chemicals. Firmenich & Co. 557,890, Apr. 22; Serial No. 594,208, published Dec. 11, 1951.
Ointment. Chicago Pharmacal Company. 339,659, Oct. 13, 1936. Republished Apr. 22.
Pesticide. Fort Dodge Laboratories, Inc. 557,815, Apr. 22; Serial No. 562,689, published May 23, 1950.
Tonic, Malt general. McKesson & Robbins, Incorporated. 290,640, renewed Jan. 12, 1952. O. G. Apr. 22.
Tonic, Medicinal. United Drug Company. 291,953, renewed Feb. 23, 1952. O. G. Apr. 22.

CLASS 20

Oilcloth. Interchemical Corporation. 558,045, Apr. 22; Serial No. 613,642, published Jan. 29, 1952.

CLASS 21

Alkali-vaporous discharge tubes. FKG Fritz Kesselring Gerätebau A. G. 557,966, Apr. 22; Serial No. 606,654, published Jan. 8, 1952.
Arc light carbons. Societe Anonyme: Le Carbone Lorraine. 558,062, Apr. 22; Serial No. 614,317, published Dec. 18, 1951.
Batteries, Storage. Texan Battery Company. 557,872, Apr. 22; Serial No. 590,192, published Oct. 17, 1950.
Circuit breakers, switchgear, relays, bus runs, etc. I-T-E Circuit Breaker Company. 557,827, Apr. 22; Serial No. 571,988, published Jan. 1, 1952.

Condensers, Electrical. Cornell-Dubilier Electric Corporation. 558,007, Apr. 22; Serial No. 611,689, published Feb. 5, 1952.
Dry cells and dry cell batteries. Manufacturers Battery Company. 557,977–8, Apr. 22; Serial Nos. 608,506–7, published Jan. 22, 1952.
Egg washer, Electrically heated. C. G. Paden. 557,895, Apr. 22; Serial No. 595,909, published Jan. 8, 1952.
Electric motors. Motor Export Manufacturing Co. 508,176, Apr. 5, 1949. New certificate. O. G. Apr. 22.
Electrical lighting units and parts thereof. Swivelier Company, Inc. 557,920, Apr. 22; Serial No. 601,697, published Jan. 1, 1952.
Electrical resistors. Sprague Electric Company. 558,049, Apr. 22; Serial No. 613,791, published Jan. 1, 1952.
Electrically driven hoists and traveling cranes and parts thereof. Whiting Corporation. 557,823, Apr. 22; Serial No. 568,820, published Jan. 1, 1952.
Electrically operated drying apparatus. Edi Products Inc. 557,955, Apr. 22; Serial No. 605,149, published Jan. 22, 1952.
Electrically operated traveling automobile elevators. Pigeon Hole Parking, Inc. 558,043, Apr. 22; Serial No. 613,805, published Jan. 1, 1952.
Electronic devices. Video Corporation of America. 557,844, Apr. 22; Serial No. 580,703, published Jan. 1, 1952.
Fire alarm telegraph boxes, switchboards and recording instruments, etc. B & R Engineering Corporation. 558,052, Apr. 22; Serial No. 613,896, published Jan. 22, 1952.
Flash lights. Hipwell Manufacturing Company. 558,051, Apr. 22; Serial No. 613,874, published Jan. 8, 1952.
Fryer, Electrically heated deep-fat. National Pressure Cooker Company. 558,046, Apr. 23; Serial No. 613,649, published Jan. 1, 1952.
Garbage disposal units, Electric. Silent Maid Co. 558,017, Apr. 22; Serial No. 612,565, published Feb. 5, 1952.
Gasoline-driven, and diesel-driven electric generating plants, and separate electric generators. D. W. Onan & Sons Inc. 558,149, Apr. 22; Serial No. 605,757.
Generators of electrical impulses, Electronic. Ateliers de Constructions Electriques de Charleroi. 558,083, Apr. 22; Serial No. 616,356, published Jan. 29, 1952.
Grids for cooking devices. McGraw Electric Company. 557,882, Apr. 22; Serial No. 591,940, published Jan. 29, 1952.
Insulating material, Electrical. Samica-Société des Applications du Mica. 558,013, Apr. 22; Serial No. 612,181, published Feb. 5, 1952.
Junction blocks which become part of prefabricated electrical wiring harnesses and systems. United Manufacturing and Service Co. 558,173, Apr. 22; Serial No. 619,318.
Lamp starters, Fluorescent. Industrial Starter Corporation. 557,990, Apr. 22; Serial No. 609,926, published Jan. 22, 1952.
Lighting displays, Decorative and animated. Northern Signal Company. 557,905, Apr. 22; Serial No. 600,393, published Jan. 22, 1952.
Manually operated electrically heated sealers. Cleveland Lathe & Machine Co. 558,155, Apr. 22; Serial No. 607,165.
Oil for use in electrical apparatus. Moloney Electric Company. 558,015, Apr. 22; Serial No. 612,409, published Feb. 5, 1952.
Panels, dials, discs, etc., used with electrical components of various instruments, Plastic. E. A. Neugass. 444,683–4, Apr. 22; Serial Nos. 526,272–3, published Jan. 22, 1952.
Recording and reproducing machines and parts thereof, Electric sound. The Soundscriber Corporation. 557,861, Apr. 22; Serial No. 587,658, published Oct. 24, 1950.
Television receivers. Mandel Brothers, Inc. 558,167, Apr. 22; Serial No. 612,503.
Transformers. Kuhlman Electric Co. 557,855, Apr. 22; Serial No. 585,650, published Jan. 1, 1952.
Transformers; relays; valves operated by an electric motor or electromagnet, etc. General Controls Co. 557,809, Apr. 22; Serial No. 553,843, published Jan. 1, 1952.
Voltage adapters, fuse plugs, etc. Precise Products Company. 557,834, Apr. 22; Serial No. 576,769, published Jan. 1, 1952.
Welding guns, Electric. Viking Products. 557,982, Apr. 22; Serial No. 609,062, published Jan. 29, 1952.
Wires and cables, Electrical. The American Steel and Wire Company of New Jersey. 558,012, Apr. 22; Serial No. 612,108, published Feb. 5, 1952.

CLASS 22

Artificial fishing lures. L. E. Townsend. 558,095, Apr. 22; Serial No. 618,661, published Jan. 29, 1952.
Diving boards. S. R. Smith. 558,018, Apr. 22; Serial No. 612,711, published Jan. 29, 1952.
Dolls. M. W. Peters. 558,072, Apr. 22; Serial No. 614,714, published Jan. 29, 1952.
Fish hooks. Wright & McGill Co. 557,985, Apr. 22; Serial No. 609,581, published Jan. 29, 1952.

Fishing rods, fishing reels, fishing lines and artificial fish baits and lures. South Bend Bait Company. 558,121, Apr. 22; Serial No. 545,906.
Golf clubs. The Billings & Spencer Company. 290,638, renewed Jan. 12, 1952. O. G. Apr. 22.
Golf clubs and parts thereof. J. L. Nilson. 440,505, Sept. 7, 1948. Canceled Mar. 14, 1952. O. G. Apr. 22.
Sleeping bags. Interstate Bedding Company. 558,097, Apr. 22; Serial No. 621,247, published Jan. 22, 1952.
Toy cash register. Kamkap, Inc. 557,923. Apr. 22; Serial No. 602,154, published Jan. 29, 1952.
Toys. Tee-Vee Toys, Inc. 558,093, Apr. 22; Serial No. 618,064, published Jan. 29, 1952.

CLASS 23

Air pressurized apparatus. Bondact. 557,938, Apr. 22; Serial No. 603,660, published Dec. 18, 1951.
Cottonseed hullers and parts thereof, tow mill machinery and parts thereof, etc. Diamond Huller Company, Inc. 558,030, Apr. 22; Serial No. 613,130, published Jan. 15, 1952.
Cutlery, namely, paring knives, butcher knives, boning knives, etc. New Process Company. 558,119, Apr. 22; Serial No. 512,524.
Dirt moving and/or carrying, tractor powered vehicles. The Heil Co. 558,131, Apr. 22; Serial No. 585,642.
Disintegrating machines, paper cutting machines, etc. Mitts & Merrill. 557,937, Apr. 22; Serial No. 603,493, published Dec. 25, 1951.
Hydraulic working presses. E. W. Bliss Company. 557,796, Apr. 22; Serial No. 533,663, published Dec. 18, 1951.
Jacks, Hydraulic. March Engineering Company. 557,797, Apr. 22; Serial No. 534,040, published Jan. 15, 1952.
Jar and bottle openers. Bushman Products, Inc. 557,958, Apr. 22; Serial No. 605,463, published Dec. 18, 1951.
Milling-cutters, shaper cutters, herringbone gear cutters, etc., All types of. National Tool Company. 557,799, Apr. 22; Serial No. 537,344, published June 26, 1951.
Package filling machines. J. L. Ferguson Company. 557,793, Apr. 22; Serial No. 527,495, published Jan. 15, 1952.
Plier, Angularly adjustable and extensible. K. J. Klenk. 557,853, Apr. 22; Serial No. 584,240, published Nov. 20, 1951.
Plow shares, lister shares, middle burster shares, etc. Stowe Hardware & Supply Company. 294,190, renewed May 24, 1952. O. G. Apr. 22.
Pumps, Centrifugal, self priming centrifugal pumps, diaphragm pumps, etc. Barnes Manufacturing Co. 557,998. Apr. 22; Serial No. 611,069, published Nov. 20, 1951.
Razor blades. American Safety Razor Corporation. 294,193–4, renewed May 24, 1952. O. G. Apr. 22.
Ribbon mounting frames and attachments therefor. Dupli-Typer Company. 557,811, Apr. 22; Serial No. 559,441, published Dec. 18, 1951.
Roofing supplies and equipment. D. Levow. 557,874, Apr. 22; Serial No. 590,445, published Dec. 18, 1951.
Sewing machines and their parts. Mila, Zavody Na Sici Stroje, Narodni Podnik. 557,906–7. Apr. 22; Serial Nos. 600,498–9, published Dec. 18, 1951.
Tools. Carboloy Company, Inc. 557,892. Apr. 22; Serial No. 594,757, published Dec. 18, 1951.
Tools. The Plomb Tool Company. 558,057, Apr. 22; Serial No. 614,159, published Jan. 15, 1952.
Tools and parts thereof, Machine. Devlieg Machine Company. 557,876, Apr. 22; Serial No. 591,408, published Nov. 27, 1951.

CLASS 24

Clothes washing machines and ironers. Altorfer Bros. Company. 557,838, Apr. 22; Serial No. 577,921, published Jan. 29, 1952.
Laundry equipment, Domestic. Automatic Washer Company. 558,125, Apr. 22; Serial No. 578,131.
Washing machines, and parts thereof. Borg-Warner Corporation. 558,094, Apr. 22; Serial No. 618,619, published Jan. 29, 1952.

CLASS 25

Lock sets and parts thereof, Door, locks and keys. Keil Lock Co., Inc. 444,682, Apr. 22; Serial No. 521,262, published Jan. 29, 1952.

CLASS 26

Cameras, Photographic, photographic lenses, photographic portrait attachments, etc. Eastman Kodak Co. 85,423, re-renewed Feb. 20, 1952. O. G. Apr. 22.
Encased set of instruments for mechanical drawing. The Frederick Post Company. 558,130, Apr. 22; Serial No. 585,523.

CLASS 27

Timers, Interval. Eastman Kodak Company. 291,146, renewed Feb. 2, 1952. O. G. Apr. 22.
Watches and parts thereof. Fabriques Movado. 290,917, Jan. 19, 1932. Republished Apr. 22.

CLASS 29

Brooms, Household. Richmond Broom Company. 557,909, Apr. 22; Serial No. 600,510, published Jan. 15, 1952.
Brushes. G. S. Mack. 557,976, Apr. 22; Serial No. 608,424, published Jan. 15, 1952.
Mop, Hand, wax hand mop. West Disinfecting Company. 558,000, Apr. 22; Serial No. 611,164, published Jan. 15, 1952.
Mops. Parker Manufacturing Company. 558,033, Apr. 22; Serial No. 613,233, published Jan. 22, 1952.
Mops and mop heads. Piedmont Mop Company, Incorporated. 557,941–5, Apr. 22; Serial Nos. 604,024–8, published Jan. 15, 1952.
Mops and mop heads. Piedmont Mop Company, Incorporated. 557,974, Apr. 22; Serial No. 608,324, published Jan. 22, 1952.
Paint applicator, Roller-type. The Kenwill Corporation. 557,848, Apr. 22; Serial No. 581,486, published Jan. 15, 1952.
Powder puffs. A. J. Siris Products Corp. 558,001, Apr. 22; Serial No. 611,457, published Jan. 15, 1952.
Tooth-brushes and tongue cleaners, Combination. United States Oralizer Corporation. 557,991, Apr. 22; Serial No. 609,988, published Jan. 15, 1952.

CLASS 30

Earthenware and ceramic dinnerware. B. E. Weisberg. 547,681, Sept. 4, 1951. Canceled Mar. 24, 1952. O. G. Apr. 22.

CLASS 31

Filter units for coffee makers. Cory Corporation. 558,144, Apr. 22; Serial No. 604,255.
Refrigerators and freezers, Domestic and commercial. Foster Refrigerator Corporation. 558,169, Apr. 22; Serial No. 613,221.

CLASS 32

Cabinets. United Metal Box Co., Inc. 557,886–7, Apr. 22; Serial Nos. 593,249–50, published Jan. 29, 1952.
Cabinets, Filing. Scholfield Service, Inc. 293,670, renewed May 3, 1952. O. G. Apr. 22.
Cabinets, Wall, floor cabinets, etc. Geneva Modern Kitchens, Inc. 557,858, Apr. 22; Serial No. 587,104, published Jan. 29, 1952.
Cushions, Fabricated. Harley and Hunzicker. 557,994, Apr. 22; Serial No. 610,516, published Jan. 29, 1952.
Cushions, Auxiliary automobile, and chair pads. North American Rubber Corporation. 557,914, Apr. 22; Serial No. 600,783, published Jan. 29, 1952.
Furniture. David M. Lea & Company, Incorporated. 557,989, Apr. 22; Serial No. 609,867, published Jan. 22, 1952.
Furniture and equipment, Baby. H. L. Kirby. 557,900, Apr. 22; Serial No. 598,798, published Jan. 8, 1952.
Furniture, Articles of. Knoll Associates, Inc. 557,891, Apr. 22; Serial No. 594,383, published Jan. 1, 1952.
Furniture, Articles of. Knoll Associates, Inc. 557,893, Apr. 22; Serial No. 595,076, published Jan. 1, 1952.
Furniture, Articles of. Knoll Associates, Inc. 557,931, Apr. 22; Serial No. 603,301, published Jan. 8, 1952.
Furniture, Bedroom. Chautauqua Cabinet Company. 557,889, Apr. 22; Serial No. 593,907, published Jan. 8, 1952.
Furniture, Chromed steel tubular, plastic-coated tubular, plastic and wooden. Daystrom, Incorporated. 558,047, Apr. 22; Serial No. 613,769, published Jan. 15, 1952.
Furniture, Juvenile. Colvin Corporation. 557,790, Apr. 22; Serial No. 521,243, published Jan. 15, 1952.
Furniture, Metal office. Orna Metal Products Co. 558,020, Apr. 22; Serial No. 612,820, published Jan. 29, 1952.
Furniture, System of store. Grand Rapids Store Equipment Company. 557,864, Apr. 22; Serial No. 588,435, published Jan. 1, 1952.
Furniture, Upholstered. Oklahoma Furniture Manufacturing Company. 557,972, Apr. 22; Serial No. 606,927, published Jan. 15, 1952.
Mattresses. Shifman Bros. 557,915, Apr. 22; Serial No. 600,920, published Jan. 29, 1952.
Mattresses and box springs. Massachusettts Mattress Company. 557,791, Apr. 22; Serial No. 523,903, published Jan. 15, 1952.
Mattresses and box springs. Massachusetts Mattress Company. 557,792, Apr. 22; Serial No. 523,912, published Jan. 22, 1952.
Mattresses, Cotton, cotton felt mattresses, etc. The International Bedding Company. 557,948. Apr. 22; Serial No. 604,304, published Jan. 15, 1952.
Mirrors, Glass. The Nurre Companies, Inc. 558,048, Apr. 22; Serial No. 613,780, published Jan. 15, 1952.
Office equipment. Koeppel Steel Products, Inc. 558,064, Apr. 22; Serial No. 614,350, published Jan. 22, 1952.
Phonograph record display racks. Merchandising Displays, Inc. 558,016, Apr. 22; Serial No. 612,460, published Jan. 29, 1952.
Pillows. Gerry Nufoam Products Corporation. 557,883–4, Apr. 22; Serial Nos. 592,623–4, published Jan. 15, 1952.
Play pens. Lehigh Furniture Company. 557,842, Apr. 22; Serial No. 579,692, published Jan. 29, 1952.
Rotary-needle, shuttle, and bobbin cases or cabinets, safety-pin cabinets, crochet-hook cabinets, etc. The Boye Needle Company. 557,804, Apr. 22; Serial No. 544,509, published Jan. 15, 1952.
Shelving units, Steel, upright divided wall parts-bins, tool storage cabinets, etc. Neiman Steel Equipment Company, Inc. 557,841, Apr. 22; Serial No. 579,205, published Jan. 15, 1952.

Sofas, tailored chairs, divans, etc. The Arrow Upholstery Company. 557,932–4, Apr. 22; Serial Nos. 603,429–31, published Jan. 29, 1952.
Table top, Auxiliary folding. I. Levy Sons. 557,862, Apr. 22; Serial No. 588,225, published Jan. 22, 1952.
Tables, Folding metal, folding steel chairs, and metal serving carts. Plaut & Lederman. 557,952, Apr. 22; Serial No. 604,803, published Jan. 29, 1952.
Wardrobes and refreshment bars. V. M. Renna. 557,878, Apr. 22; Serial No. 591,514, published Jan. 15, 1952.
Wardrobes, folding partitions and structural parts for wardrobes and folding partitions. John T. Fairhurst Co. Inc. 557,983, Apr. 22; Serial No. 609,172, published Jan. 15, 1952.

CLASS 34

Draft controls, Automatic. The Hotstream Heater Company. 290,644, renewed Jan. 12, 1952. O. G. Apr. 22.
Heaters and their structural parts, Gas, oil, and vapor burning water. The Cleveland Heater Company. 290,407–08, renewed Jan. 5, 1952. O. G. Apr. 22.
Heaters and their structural parts, Gas, oil, and vapor burning water. The Cleveland Heater Company. 291,812, renewed Feb. 23, 1952. O. G. Apr. 22.

CLASS 35

Gaskets, Semi-metallic. The Garlock Packing Company. 291,999, renewed Mar. 1, 1952. O. G. Apr. 22.
Machinery packing. The Garlock Packing Company. 291,050, renewed Jan. 26, 1952. O. G. Apr. 22.

CLASS 36

Phonograph records, Grooved, and albums for phonograph records. N. Granz. 558,136, Apr. 22; Serial No. 593,867.

CLASS 37

Business forms. The Todd Company, Inc. 294,297, renewed May 24, 1952. O. G. Apr. 22.
Crayons and plastic writing slate boards associated therewith. International Products Company. 558,160, Apr. 22; Serial No. 608,760.
Paper, Lining, wrapping, printing and writing. Katahdin Pulp and Paper Company. 86,304, re-renewed Apr. 30, 1952. O. G. Apr. 22.
Table napkins manufactured of paper or cellulose sheeting. Erving Paper Mills. 558,132, Apr. 22; Serial No. 586,405.

CLASS 38

Magazine, Monthly. The Frank A. Munsey Company. 289,698, renewed Dec. 1, 1951. O. G. Apr. 22.
Newspaper feature column. General Features Corporation. 558,156, Apr. 22; Serial No. 607,170.

CLASS 39

Aprons and sleeves, Industrial. West Disinfecting Company. 557,999, Apr. 22; Serial No. 611,162, published Jan. 15, 1952.
Bathing suits, bathing trunks, bathing shirts, etc. Puritan Knitting Mills, Inc. 290,582, Jan. 12, 1932. Republished Apr. 22.
Blouses. Blousemodes, Inc. 558,123, Apr. 22; Serial No. 560,379.
Clothing, Ladies' and misses' ready-to-wear. The May Department Stores Company. 557,819, Apr. 22; Serial No. 565,443, published Jan. 29, 1952.
Clothing, Men's, Society Brand Clothes, Inc. 557,852, Apr. 22; Serial No. 584,163, published Feb. 27, 1951.
Corsets, corselets, girdles, etc., Ladies'. The La Resista Corset Company. 558,161, Apr. 22; Serial No. 609,557.
Corsets, girdles, brassières, and combinations of brassières and girdles. Poirette Corsets, Inc. 558,058–9, Apr. 22; Serial Nos. 614,161–2, published Jan. 29, 1952.
Dresses and aprons, Ladies'. Supreme Dress Co. 558,171, Apr. 22; Serial No. 614,173.
Dresses, Shoes, ladies' and children's, men's and boys' suits. Perlman Brothers. 287,279. Sept. 15, 1931. Republished Apr. 22.
Dresses, Women's and misses'. M. Levine. 558,162, Apr. 22; Serial No. 610,082.
Felt hats and felt caps, Boys' novelty. Benay Albee Novelty Co. 557,829, Apr. 22; Serial No. 573,755, published Jan. 15, 1952.
Gloves. Dickson Safety Products Co. 558,081, Apr. 22; Serial No. 615,765, published Jan. 29, 1952.
Handkerchiefs. The International Handkerchief Mfg. Co. 291,657, renewed Feb. 23, 1952. O. G. Apr. 22.
Hats, Men's. I. Singer. 558,126, Apr. 22; Serial No. 580,520.
Hosiery for women. Bryan Full Fashioned Mills. 558,152, Apr. 22; Serial No. 605,990.
Hosiery, Men's, boys', children's, and misses'. Catawba Sales Agency, Inc. 558,165, Apr. 22; Serial No. 611,757.
Hosiery, sweaters, and underwear. Troy Wholesale Corporation. 286,192, Aug. 18, 1931. Republished Apr. 22.
Hosiery, Women's. Francis-Louise Full Fashion Mills, Inc. 558,060, Apr. 22; Serial No. 614,201, published Feb. 5, 1952.
Jackets, Men's outer. Winer Manufacturing Co., Inc. 557,911, Apr. 22; Serial No. 600,637, published Jan. 8, 1952.
Jackets, Men's outer. Winer Manufacturing Co., Inc. 557,918–19, Apr. 22; Serial Nos. 601,388–9, published Jan. 8, 1952.
Lingerie, Women's. David Lewis, Inc. 558,054, Apr. 22; Serial No. 613,925, published Jan. 29, 1952.
Lingerie, Women's and misses'. Cannon Shoe Company. 343,587, Feb. 23, 1937. Canceled Mar. 14, 1952. O. G. Apr. 22.
Lumber jackets, bomber jackets, surcoat jackets, etc., Men's, women's, and children's. White Valley Corporation. 557,957, Apr. 22; Serial No. 605,187, published Jan. 15, 1952.
Pajamas. Stadium Underwear Company, Incorporated. 299,057, Nov. 22, 1932. Canceled Mar. 14, 1952. O. G. Apr. 22.
Pajamas. Van Raalte Company, Inc. 295,603, renewed July 5, 1952. O. G. Apr. 22.
Ponchos and separate hoods contained in a pouch. Utilitex Company. 558,150, Apr. 22; Serial No. 605,931.
Shirts, Work. Sherrod Shirt Company. 557,997, Apr. 22; Serial No. 610,928, published Jan. 8, 1952.
Shoes and slippers. The Juvenile Shoe Corporation of America. 294,485, renewed May 21, 1952. O. G. Apr. 22.
Shoes, Leather and fabric. Samuel Cohen Shoe Stores, Inc. 295,195, renewed June 21, 1952. O. G. Apr. 22.
Shoes, Women's leather. W. B. Coon Company. 294,622, renewed June 7, 1952. O. G. Apr. 22.
Slacks and outer shirts, Men's and boys'. Moyer Manufacturing Company. 558,163, Apr. 22; Serial No. 610,088.
Slips for little girls. Style Undies, Inc. 558,159, Apr. 22; Serial No. 608,438.
Sportswear, Ladies'. M. R. Fleischman Co. 557,924, Apr. 22; Serial No. 602,315, published Jan. 29, 1952.
Suits and coats, Ladies' and misses'. Parkleigh Fashions, Inc. 557,821, Apr. 22; Serial No. 566,643, published Jan. 29, 1952.
Suits, Overall. Washington Manufacturing Company. 387,338, May 13, 1941. Canceled Mar. 14, 1952. O. G. Apr. 22.
Suits, topcoats, and overcoats, Men's and boys'. Levy Bros. & Adler Rochester, Incorporated. 340,302, Nov. 3, 1936. Canceled Mar. 10, 1952. O. G. Apr. 22.
Topcoats and raincoats, Men's. Plymouth Manufacturing Company. 558,042. Apr. 22; Serial No. 613,524, published Jan. 15, 1952.
Underwear, Men's knitted. Munsingwear, Inc. 558,067, Apr. 22; Serial No. 614,565, published Feb. 5, 1952.
Underwear of textile fabric, Men's. Wilson Brothers. 558,166, Apr. 22; Serial No. 611,989.
Wearing apparel, Men's and boys'. David D. Doniger & Co. Inc. 557,953. Apr. 22; Serial No. 604,841, published Jan. 15, 1952.
Wearing apparel, Men's and boys' outer. Samuel E. Schlein, Inc. 558,139, Apr. 22; Serial No. 598,868.
Wearing apparel, Men's, women's, and children's. Ber-Tals Apparel Shop. 557,961, Apr. 22; Serial No. 605,711, published Jan. 15, 1952.

CLASS 40

Buckles. Parva Products Company. 293,327, renewed Apr. 19, 1952. O. G. Apr. 22.
Buttons and cuff links, Plastic. Automatic Button Company. 558,154, Apr. 22; Serial No. 607,065.
Dress shields, combs, and hair pins. Kresge Department Store Corporation. 294,294, renewed May 24, 1952. O. G. Apr. 22.

CLASS 42

Cloth in the piece, Hair. D. Schlesinger. 518,021, Nov. 22, 1949. Canceled Mar. 14, 1952. O. G. Apr. 22.
Fabrics. The Calico Printers' Association Limited. 292,768, renewed Mar. 29, 1952. O. G. Apr. 22.
Fabrics, Celanese Corporation of America. 293,426, renewed Apr. 19, 1952. O. G. Apr. 22.
Fabrics. Celanese Corporation of America. 293,523, renewed Apr. 26, 1952. O. G. Apr. 22.
Fabrics. Celanese Corporation of America. 295,367, renewed June 28, 1952. O. G. Apr. 22.
Fabrics. Celanese Corporation of America. 295,369, renewed June 28, 1952. O. G. Apr. 22.
Fabrics. Celanese Corporation of America. 295,648–50, renewed July 5, 1952. O. G. Apr. 22.
Fabrics. Traford Fabrics, Inc. 554,845, Feb. 12, 1952. Corrected. O. G. Apr. 22.
Fabrics, Woolen. S. Stein & Co., Inc. 558,120, Apr. 22; Serial No. 541,047.
Laces in the form of piece goods. Van Raalte Company, Inc. 295,350, renewed June 28, 1952. O. G. Apr. 22.
Piece goods, Cotton. The Bradford Dyers' Association, Limited. 290,686, renewed Jan. 12, 1952. O. G. Apr. 22.
Piece goods, Woolen. Forstmann & Huffmann Company. 290,969, renewed Jan. 19, 1952. O. G. Apr. 22.
Piece goods, Woolen. Forstmann & Huffmann Company. 290,974, renewed Jan. 19, 1952. O. G. Apr. 22.
Piece goods, Woolen. Forstmann & Huffmann Company. 291,098, renewed Jan. 26, 1952. O. G. Apr. 22.
Sheeting, sheets, and pillow cases. Naumkeag Steam Cotton Company. 558,134, Apr. 22; Serial No. 586,493.
Sheets and pillow cases and towels. Marshall Field & Company. 292,327, renewed Mar. 15, 1952. O. G. Apr. 22.

Silks, woolens, cotton, rayon and combination silk and rayon piece goods. Barkin, Levin, & Co. Inc. 378,601, June 11, 1940. Republished Apr. 22.

CLASS 43

Thread, Sewing. Lily Mill and Power Company. 292,603, renewed Mar. 15, 1952. O. G. Apr. 22.
Thread, Sewing. Lily Mill and Power Company. 293,425, renewed Apr. 19, 1952. O. G. Apr. 22.
Yarns. Courtaulds, Limited. 281,184, Mar. 10, 1931. Republished Apr. 22.

CLASS 46

Apples, pears, peaches, plums, etc., Fresh. San Diego Fruit & Produce Company. 276,730, Oct. 28, 1930. Republished Apr. 22.
Bakery goods. Safeway Stores, Incorporated. 557,839, Apr. 22; Serial No. 578,169, published Feb. 5, 1952.
Bakery products. Carr-Consolidated Biscuit Company. 557,904, Apr. 22; Serial No. 600,200, published Jan. 29, 1952.
Barbecue sauce. W. B. Smock. 557,866, Apr. 22; Serial No. 588,902, published Dec. 11, 1951.
Beans, Dried, and dried peas. The Trinidad Bean & Elevator Company. 557,802, Apr. 22; Serial No. 540,942, published Jan. 22, 1952.
Biscuit. National Biscuit Company. 84,849, re-renewed Jan. 9, 1952. O. G. Apr. 22.
Biscuit, Cereal. The Shredded Wheat Company. 85,186, re-renewed Jan. 30, 1952. O. G. Apr. 22.
Candies. The O. P. Baur Confectionery Company. 557,869–70, Apr. 22; Serial Nos. 589,946–7, published Jan. 22, 1952.
Candies. H. W. Powers. 557,816, Apr. 22; Serial No. 563,215, published Feb. 5, 1952.
Candy. The O. P. Baur Confectionery Company. 557,836, Apr. 22; Serial No. 576,896, published Jan. 29, 1952.
Candy. Georges-George De Met & Bros, Inc. 558,090, Apr. 22; Serial No. 617,397, published Feb. 5, 1952.
Candy, Bar. Merrill Candy Company. 557,803, Apr. 22; Serial No. 541,370, published Jan. 22, 1952.
Candy, Chocolate. Lindt & Sprungli, Inc. 557,962, Apr. 22; Serial No. 605,750, published Jan. 29, 1952.
Canned and frozen fresh vegetables. Blue Lake Producers Cooperative. 558,118, Apr. 22; Serial No. 499,199.
Canned and peeled tomatoes with puree and tomato paste. Flotill Products, Incorporated. 557,798, Apr. 22; Serial No. 535,017, published Jan. 29, 1952.
Canned apple sauce. Sebastopol Cooperative Cannery. 558,004, Apr. 22; Serial No. 611,545, published Dec. 11, 1951.
Canned asparagus. Hickmott Canning Co. 557,859, Apr. 22; Serial No. 587,487, published Jan. 29, 1952.
Canned crab and lobster. Haas, Baruch & Co. 558,096, Apr. 22; Serial No. 619,017, published Nov. 27, 1951.
Canned cream of pea soup, canned consomme madrilene, canned vegetable soup, etc. College Inn Food Products Company. 557,830, Apr. 22; Serial No. 573,919, published Jan. 15, 1952.
Canned fish. Peninsula Packing Company. 557,908, Apr. 22; Serial No. 600,505, published Jan. 22, 1952.
Canned fish and frozen fresh fish. D. B. Berelson & Co. 558,174, Apr. 22; Serial No. 619,496.
Canned foods. B. Dorman & Sons, Inc. 558,142, Apr. 22; Serial No. 602,752.
Canned fruit mix. Limpert Bros., Inc. 557,936, Apr. 22; Serial No. 603,453, published Dec. 4, 1951.
Canned fruits and canned vegetables. The Larsen Company. 325,372, June 18, 1935. Republished Apr. 22.
Canned fruits, canned fruit cocktail and canned fruit juices. Hawaiian Pineapple Company, Limited. 558,172, Apr. 22; Serial No. 616,705.
Canned fruits, canned vegetables, canned fish, etc. Milton Anderson Co. 557,973, Apr. 22; Serial No. 607,974, published Feb. 5, 1952.
Canned peas. Fine Foods, Inc. 558,133, Apr. 22; Serial No. 586,406.
Canned peas, diced carrots, whole kernel corn, etc. R. E. Ingalls. 557,964, Apr. 22; Serial No. 605,793, published Jan. 22, 1952.
Canned seafood. Graham Sea Food Co. 558,170, Apr. 22; Serial No. 613,634.
Canned seafoods. Atlantic Seafood Packers, Inc. 294,965, renewed June 14, 1952. O. G. Apr. 22.
Canned, sliced, cubed and crushed pineapple and canned pineapple juices. Puerto Rico Agricultural Company. 557,880, Apr. 22; Serial No. 591,699, published Jan. 22, 1952.
Canned tuna. California Tuna Canning Company. 558,041, Apr. 22; Serial No. 613,499, published Dec. 18, 1951.
Canned tuna. The Halfhill Company. 557,818, Apr. 22; Serial No. 564,724, published Jan. 29, 1952.
Canned vegetables. The Larsen Company. 221,396, Nov. 30, 1926. Republished Apr. 22.
Canned vegetables and canned fish. Sciafani Brothers. 288,218, renewed Oct. 20, 1951. O. G. Apr. 22.
Cheese, Farmer, creamed cottage cheese, sour cream, etc. Santé Foods, Inc. 558,006, Apr. 22; Serial No. 611,620, published Jan. 22, 1952.
Cheese, Smoked. American Smoked Cheese Company. 397,039, Aug. 11, 1942. Canceled Mar. 14, 1952. O. G. Apr. 22.
Chocolate. Aktiengesellschaft Chocolat Tobler. 557,828, Apr. 22; Serial No. 572,823, published Jan. 29, 1952.
Cocoa base powder. J. C. Core, Jr. 558,009, Apr. 22; Serial No. 611,764, published Feb. 5, 1952.
Coffee. Florida Coffee Company. 558,019, Apr. 22; Serial No. 612,735, published Feb. 5, 1952.
Coffee. Griggs, Cooper & Co. 294,233, renewed May 24, 1952. O. G. Apr. 22.
Coffee and chicory, Blend of. Trico, Inc. 557,993, Apr. 22; Serial No. 610,301, published Jan. 22, 1952.
Cookie sandwiches. Lance, Inc. 412,197, Feb. 20, 1945. Republished Apr. 22, 1952.
Corn starch and grated and shredded coconut. Stein, Hall & Company, Inc. 557,833, Apr. 22; Serial No. 575,098, published Feb. 5, 1952.
Corn syrup. Union Starch and Refining Company. 557,868, Apr. 22; Serial No. 589,816, published Jan. 22, 1952.
Doughnuts. Nedick's, Inc. 557,901, Apr. 22; Serial No. 598,923, published Feb. 5, 1952.
Doughnuts, Plain and iced, twists, bismarks, etc. Pelton's Spudnuts, Incorporated. 557,820, Apr. 22; Serial No. 566,441, published Jan. 29, 1952.
Eggs, Fresh. Poultry Producers of Central California. 557,806, Apr. 22; Serial No. 547,767, published Jan. 22, 1952.
Extracts, Flavoring. Firmenich & Co. 557,807, Apr. 22; Serial No. 550,799, published Feb. 5, 1952.
Feed, Compounded chicken. Arcady Farms Milling Company. 557,832, Apr. 22; Serial No. 575,032, published Nov. 27, 1951.
Feed, Pig and hog. Allied Mills, Inc. 558,055, Apr. 22; Serial No. 613,959, published Jan. 8, 1952.
Feeds, Livestock and poultry. Service Feed Company. 558,168, Apr. 22; Serial No. 612,563.
Feeds, Poultry and stock. Zeb Pearce & Sons. 557,896, Apr. 22; Serial No. 596,638, published Feb. 5, 1952.
Feeds, Swine and poultry. Milk Products, Inc. 557,835, Apr. 22; Serial No. 576,872, published Jan. 15, 1952.
Fig bars. Modern Biscuit Corporation. 557,879, Apr. 22; Serial No. 591,579, published Jan. 22, 1952.
Fish product, Cooked and seasoned. Moland & Son Manufacturing Co. 557,956, Apr. 22; Serial No. 605,171, published Feb. 5, 1952.
Flour, Doughnut. Gold-N-Glaze Flour Company. 558,128, Apr. 22; Serial No. 583,925.
Flour, Enriched wheat, wholewheat flour, cake flour, etc. Voigt Milling Company. 558,079, Apr. 22; Serial No. 615,587, published Jan. 15, 1952.
Flour, Wheat. Flour Mills of America, Inc. 557,808, Apr. 22; Serial No. 553,608, published Dec. 11, 1951.
Flour, Wheat. Flour Mills of America, Inc. 558,175, Apr. 22; Serial No. 622,154.
Flour, Wheat. General Mills, Inc. 557,912, Apr. 22; Serial No. 600,659, published Jan. 22, 1952.
Flour, Wheat. The Kansas Milling Company. 557,986, Apr. 22; Serial No. 609,652, published Dec. 11, 1951.
Flour, Wheat. Van Dusen Harrington Co. 557,805, Apr. 22; Serial No. 545,666, published Jan. 22, 1952.
French dressing. Girard's Inc. 558,153, Apr. 22; Serial No. 606,377.
Fruit and vegetables, Graded and packed deciduous fresh. C. B. Messick, Jr. 557,840, Apr. 22; Serial No. 578,989, published Jan. 22, 1952.
Fruit juices, Bottled citrus, and honey. J. G. Barrow, Jr. 558,127, Apr. 22; Serial No. 582,765.
Fruits, Crushed, and crushed nuts. Orange-Crush Company. 557,824, Apr. 22; Serial No. 568,973, published Jan. 22, 1952.
Fruits, Fresh. M. L. Kalich. 243,231, June 12, 1928. Republished Apr. 22.
Fruits, Fresh citrus. Etiwanda Citrus Fruit Association. 557,826, Apr. 22; Serial No. 571,126, published Feb. 5, 1952.
Fruits, Fresh deciduous. Hansen Fruit & Cold Storage Co. 577,837, Apr. 22; Serial No. 577,716, published Jan. 22, 1952.
Hams, bacon, sausages, etc. Armour and Company. 557,800, Apr. 22; Serial No. 540,362, published Jan. 22, 1952.
Ice cream. Consolidated Dairy Products Company, Inc. 558,061, Apr. 22; Serial No. 614,242, published Jan. 22, 1952.
Ice cream. Martha Washington Candies Co. 557,949, Apr. 22; Serial No. 604,334, published Jan. 22, 1952.
Margarine. E. F. Drew & Co., Inc. 557,897, Apr. 22; Serial No. 597,672, published Feb. 5, 1952.
Marmalade, fruit jellies, and jams. Chivers & Sons, Limited. 557,856, Apr. 22; Serial No. 586,224, published Jan. 8, 1952.
Meat, Horse. P. Kuick. 557,850, Apr. 22; Serial No. 582,733, published Jan. 22, 1952.
Milk substitute, Condensed. Chas. Pfizer & Co., Inc. 558,082, Apr. 22; Serial No. 616,124, published Jan. 22, 1952.
Molasses. Standard Brands Incorporated. 557,975, Apr. 22; Serial No. 608,386, published Jan. 22, 1952.
Olive oil. J. Orlando Co. Inc. 557,825, Apr. 22; Serial No. 569,008, published Jan. 29, 1952.

Olive oil. Sciafani Brothers. 289,928, renewed Dec. 15, 1951. O. G. Apr. 22.
Peanut butter sandwiches. Lance Packing Company. 364,577, Feb. 7, 1939. Republished Apr. 22.
Peas, Dried, dried lentils and dried beans. The Trinidad Bean & Elevator Company. 557,801, Apr. 22; Serial No. 540,941, published Jan. 22, 1952.
Peas, Frozen green. Ayres and Roberts. 558,085, Apr. 22; Serial No. 616,538, published Feb. 5, 1952.
Pickles. J. A. Weller, Jr. 291,798, renewed Feb. 23, 1952. O. G. Apr. 22.
Pigs' feet, spiced and pickled pigs' feet dainties, etc. Boston Fresh Tripe Co. 292,190, renewed Mar. 1, 1952. O. G. Apr. 22.
Pop corn, Shelled. Confections, Inc. 522,476, Mar. 14, 1950. Canceled Mar. 14, 1952. O. G. Apr. 22.
Potato chips. Spud Chips Inc. 558,086, Apr. 22; Serial No. 616,878, published Jan. 22, 1952.
Potato chips. Wise Potato Chip Co. 558,124, Apr. 22; Serial No. 569,787.
Potato salad dressing. Best Food Products Company. 557,888, Apr. 22; Serial No. 593,707, published Feb. 5, 1952.
Potatoes in the natural state. Northampton Potato Company. 557,967, Apr. 22; Serial No. 606,720, published Jan. 22, 1952.
Prepared mushroom sauce. The Great Western Mushroom Company. 558,138, Apr. 22; Serial No. 597,681.
Puffed appetizer. G. Oscar. 558,137, Apr. 22; Serial No. 597,092.
Salad dressing. Sue Ann Food Products Corporation. 558,074, Apr. 22; Serial No. 614,910, published Jan. 22, 1952.
Salad dressing, Balkan. The Rendezvous Restaurant. 558,091, Apr. 22; Serial No. 617,511, published Feb. 5, 1952.
Salt. General Foods Corporation. 558,077, Apr. 22; Serial No. 615,061, published Jan. 22, 1952.
Salt. International Salt Company. 557,817, Apr. 22; Serial No. 564,689, published Jan. 29, 1952.
Sausage, Dry. Armour and Company. 558,040, Apr. 22; Serial No. 613,487, published Jan. 22, 1952.
Sausage, Salami. Luer Packing Company. 557,794, Apr. 22; Serial No. 532,240, published Jan. 22, 1952.
Shrimp, Frozen. Pan-Redi Shrimp Co. 558,158, Apr. 22; Serial No. 607,825.
Turkeys, Maple smoked. W. Jacobs. 558,084, Apr. 22; Serial No. 616,468, published Jan. 22, 1952.
Vegetables, Fresh. E. J. Russell. 557,917, Apr. 22; Serial No. 601,378, published Dec. 25, 1951.
Vegetables, Fresh, unpopped popcorn, fresh fruits, etc. Atlantic Commission Company, Inc. 558,044, Apr. 22; Serial No. 613,624, published Jan. 29, 1952.
Vegetables, Frozen fresh, frozen fresh strawberries, and canned corn and peas. Pictsweet Foods, Inc. 558,005, Apr. 22; Serial No. 611,581, published Dec. 18, 1951.
Vine leaves stuffed with rice, onions, pure olive oil, dill, salt and spices. M. Hatchadourian. 558,157, Apr. 22; Serial No. 607,499.
Watermelons, Fresh. Allen Ranches, Incorporated. 558,080, Apr. 22; Serial No. 615,598, published Jan. 22, 1952.

CLASS 50

Automatic dog feeder and waterer structure. James R. Coffing Company. 557,947, Apr. 22; Serial No. 604,254, published Jan. 22, 1952.
Display devices. Ensign-Shaw Company, Inc. 557,951, Apr. 22; Serial No. 604,426, published Jan. 15, 1952.
Display, presentation and bulletin boards, Portable. A. O. Harris. 557,970, Apr. 22; Serial No. 606,868, published Dec. 4, 1951.
Fabrics coated or impregnated for resistance to water and/or mold and sold as artificial leather. Farrington Texol Corporation. 557,984, Apr. 22; Serial No. 609,543, published Dec. 25, 1951.
Felts. The Felters Company. 558,029, Apr. 22; Serial No. 613,124, published Jan. 15, 1952.
Handicraft kits. M. J. Hagstrom. 557,865, Apr. 22; Serial No. 588,687, published Jan. 15, 1952.
Identification tags, markers, etc., Plastic and metal. The Hopp Press, Inc. 557,979, Apr. 22; Serial No. 608,545, published Jan. 15, 1952.
Kits containing materials for applying decorative finishes to surfaces. The Di-Noc Company. 557,899, Apr. 22; Serial No. 598,714, published Dec. 4, 1951.
Name plates. Miller Dial and Name Plate Company. 557,971, Apr. 22; Serial No. 606,926, published Dec. 25, 1951.
Platforms, Skid. Pallet Devices, Inc. 557,843, Apr. 22; Serial No. 580,506, published Jan. 22, 1952.
Snares. Animal Trap Company of America. 557,860, Apr. 22; Serial No. 587,577, published Jan. 8, 1952.
Wren houses. Chicago Cardboard Company. 558,011, Apr. 22; Serial No. 612,059, published Dec. 25, 1951.

CLASS 51

Artificial and synthetic perfumery compositions, natural and synthetic oils and aromatic chemicals. Firmenich Incorporated. 557,959, Apr. 22; Serial No. 605,475, published Jan. 15, 1952.
Cold wave creme. H. G. Douglas. 544,195, June 19, 1951. Canceled Mar. 14, 1952. O. G. Apr. 22.
Cologne. Anatole Robbins, Inc. 558,056, Apr. 22; Serial No. 614,033, published Jan. 15, 1952.
Cologne, toilet water, perfume, etc. Germaine Monteil Parfums Co. 557,987, Apr. 22; Serial No. 609,723, published Jan. 15, 1952.
Cosmetics and toilet preparations. G. T. Whiteside. 557,916, Apr. 22; Serial No. 601,293, published Dec. 25, 1951.
Face and hand creams and shampoos. Duon, Inc. 557,814, Apr. 22; Serial No. 562,605, published Nov. 15, 1949.
Face creams, skin creams, cleansing creams, etc. S. Floreskul. 557,894, Apr. 22; Serial No. 595,253, published Dec. 11, 1951.
Hair and scalp tonic. M. R. Pope. 527,896, July 18, 1950. Canceled Mar. 10, 1952. O. G. Apr. 22.
Hair cream. Alannize Enterprises. 557,903, Apr. 22; Serial No. 600,206, published Dec. 25, 1951.
Hair rinse and lipstick. Helena Rubinstein, Inc. 557,929–30, Apr. 22; Serial Nos. 603,254–5, published Jan. 8, 1952.
Lipstick. Dana Perfumes, Inc. 558,022, Apr. 22; Serial No. 612,951, published Jan. 22, 1952.
Lipstick. Dana Perfumes, Inc. 558,023, Apr. 22; Serial No. 612,952, published Dec. 11, 1951.
Lipstick. Dana Perfumes, Inc. 558,024, Apr. 22; Serial No. 612,959, published Dec. 11, 1951.
Lipstick. Dana Perfumes, Inc. 558,025–6, Apr. 22; Serial Nos. 612,961–2, published Dec. 11, 1951.
Lipstick and nail lacquer. Chen Yu, Inc. 557,867, Apr. 22; Serial No. 589,146, published Jan. 8, 1952.
Liquid make-up base. Germaine Monteil Cosmetiques Corporation. 558,021, Apr. 22; Serial No. 612,905, published Jan. 15, 1952.
Lotion, Body. John Robert Powers Products Co., Inc. 557,910, Apr. 22; Serial No. 600,617, published Dec. 25, 1951.
Natural or synthetic perfumery compositions, aromatic chemicals. Firmenich & Co. 557,928, Apr. 22; Serial No. 603,054, published Jan. 8, 1952.
Natural or synthetic perfumery compositions, natural and synthetic essential oils, aromatic chemicals. Firmenich & Co. 557,935, Apr. 22; Serial No. 603,443, published Jan. 8, 1952.
Over-nite cream, texture cream, cleansing cream, etc. R. Estrin. 557,857, Apr. 22; Serial No. 586,634, published Jan. 22, 1952.
Perfume. R. Hudnut. 557,813, Apr. 22; Serial No. 561,468, published Jan. 8, 1952.
Perfume. The Andrew Jergens Company. 558,039, Apr. 22; Serial No. 613,406, published Jan. 29, 1952.
Perfume and cosmetics. M. Masclet. 557,922, Apr. 22; Serial No. 602,077, published Jan. 15, 1952.
Perfume, toilet water, and talcum powder. Parfumerie de Raymond. 558,027, Apr. 22; Serial No. 613,020, published Jan. 15, 1952.
Perfumes, cologne, toilet waters. Adam's Perfumes, Inc. 557,925, Apr. 22; Serial No. 602,481, published Jan. 8, 1952.
Rouge and eyeshadow. Elizabeth Arden Sales Corporation. 557,846, Apr. 22; Serial No. 581,236, published Jan. 15, 1952.
Toilet articles, preparations, and products. B. Ansehl. 294,061, renewed May 17, 1952. O. G. Apr. 22.

CLASS 52

Alkaline composition. Wyandotte Chemicals Corporation. 557,795, Apr. 22; Serial No. 533,101, published Jan. 22, 1952.
Chemicals for use in cleaning metals, etc., Organic and inorganic. Monsanto Chemical Company. 557,885, Apr. 22; Serial No. 592,655, published Jan. 22, 1952.
Cleaning, cleansing and detergent materials, etc. The J. B. Ford Company. 291,164, renewed Feb. 2, 1952. O. G. Apr. 22.
Detergents, Laundry, strongly alkaline detergents, dry cleaning soaps, etc. The Pennsylvania Salt Manufacturing Company. 557,812, Apr. 22; Serial No. 560,043, published Jan. 22, 1952.
Insecticidal liquid preparation. Polk Miller Products Corporation. 557,898, Apr. 22; Serial No. 598,500, published Jan. 22, 1952.
Liquid chemical compound for use as an additive to solvents. J. F. Katz. 557,854, Apr. 22; Serial No. 584,987, published Jan. 22, 1952.
Shampoo. Helene Curtis Industries, Inc. 557,877, Apr. 22; Serial No. 591,458, published Jan. 22, 1952.
Soap, Toilet. Holman Soap Company. 295,490, renewed July 5, 1952. O. G. Apr. 22.
Solvents. Dearborn Chemical Company. 294,218, renewed May 24, 1952. O. G. Apr. 22.
Sweeping compound. J. P. Siamatas. 557,875, Apr. 22; Serial No. 591,110, published Jan. 22, 1952.

CLASS 100

Informational services. The Northwest Public Power Association. 558,105, Apr. 22; Serial No. 580,090, published Jan. 29, 1952.

Services rendered on a contract basis to airports and food growers. Hygrotrol Corporation. 558,106–7, Apr. 22; Serial Nos. 580,366–7, published Jan. 29, 1952.

CLASS 101

Advertising service. Allen Advertising Agency, Inc. 558,114–15, Apr. 22; Serial Nos. 611,465–6, published Jan. 1, 1952.

Producing for radio broadcasting stations a series of radio programs, etc. P. H. Sause. 558,098, Apr. 22; Serial No. 526,517, published Jan. 29, 1952.

CLASS 103

Directional drilling, core orienting and oil well surveys. Eastman Oil Well Survey Company. 558,103, Apr. 22; Serial No. 552,644, published Jan. 29, 1952.

CLASS 104

Radio program broadcasting services. Columbia Broadcasting System, Inc. 558,099, Apr. 22; Serial No. 545,447, published Jan. 29, 1952.

Radio program broadcasting services. Columbia Broadcasting System, Inc. 558,100–1, Apr. 22; Serial Nos. 545,449–50, published Jan. 29, 1952.

Radio program broadcasting services. Columbia Broadcasting System, Inc. 558,102, Apr. 22; Serial No. 545,452, published Jan. 29, 1952.

Radio program broadcasting services. United Broadcasting Company. 558,176, Apr. 22; Serial No. 561,173.

CLASS 105

Berth services. Stevenson Line, Inc. 558,177, Apr. 22; Serial No. 597,635.

CLASS 106

Applying a plastic base covering to both new and used mechanical devices. Tube-Kote, Inc. 558,108, Apr. 22; Serial No. 582,151, published Jan. 29, 1952.

Dyeing, shrinking and waterproofing of textile materials. Duro Finishing Corporation. 558,111, Apr. 22; Serial No. 586,150, published July 3, 1951.

Producing ceramic, porcelain and refractory articles to customer's specifications. G. Aderhold. 558,109, Apr. 22; Serial No. 585,006, published Jan. 29, 1952.

Sponging, shrinking, fire-retarding, and decating woolen materials. Liberty Shrinkers Corp. 558,112, Apr. 22; Serial No. 587,337, published Sept. 18, 1951.

CLASS 107

Entertainment service. Balaban and Katz Corporation. 558,113, Apr. 22; Serial No. 591,606, published Jan. 29, 1952.

Entertainment service. Rockhill Radio. 558,116, Apr. 22; Serial No. 611,724, published Jan. 29, 1952.

Entertainment service. G. R. Wagner. 558,104, Apr. 22; Serial No. 556,499, published Jan. 29, 1952.

Instructing in the playing of musical brass instruments. D. S. Reinhardt. 558,110, Apr. 22; Serial No. 585,604, published Jan. 29, 1952.

LIST OF PLANT PATENTEES

Byrum, Roy L., assignor to Joseph H. Hill Company, Richmond, Ind. Rose plant. 1,083, Apr. 22.

Hill, Joseph H., Company, assignee: *See*—
Byrum, Roy L.

Holton & Hunkel Co., assignee: *See*—
Hunkel, Carol H.

Hunkel, Carol H., assignor to Holton & Hunkel Co., Milwaukee, Wis. Poinsettia plant. 1,085, Apr. 22.

Jackson & Perkins Company, assignee: *See*—
McMullen, Colin.

McMullen, Colin, Little Sutton, Wirral, England, assignor to Jackson & Perkins Company, Newark, N. Y. Shasta daisy plant. 1,084, Apr. 22.

LIST OF DESIGN PATENTEES

Advance Machine Company, assignee: *See*—
Pond, Harold J.

Allen, Herbert, assignor to Cameron Iron Works, Inc., Houston, Tex. Gear operator. 166,517, Apr. 22.

Altemiller, Arthur D., Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio. Deep-fat fryer. 166,518, Apr. 22.

American Optical Company, assignee: *See*—
Splaine, Edward M.

Ayers, Fred L., Watertown, Mass. Shoe. 166,519, Apr. 22.

Ayers, Fred L., Watertown, Mass. Shoe. 166,520, Apr. 22.

Bernstein, Milton, assignor to National Silver Company, New York, N. Y. Knife or similar article. 166,521, Apr. 22.

Billingsley, William F., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Tire. 166,522, Apr. 22.

Black, John M., assignor to Superior Plastics Inc., Chicago, Ill. Multitray serving receptacle. 166,523, Apr. 22.

Blish, Matthew B., Oak Park, Ill. Edible container or similar article. 166,524, Apr. 22.

Bliss, Charles O., Los Angeles, Calif. Seasoning shaker. 166,525, Apr. 22.

Buckingham, John D., assignor to Virginia Parks, Inc., Chicago, Ill. Bottle or similar article. 166,526, Apr. 22.

Bunting Glider Company, assignee: *See*—
Pearlstine, Morton.

Byrd, James C., Lakeland, Fla. Pitcher. 166,527, Apr. 22.

Cameron Iron Works, Inc., assignee: *See*—
Allen, Herbert.

Cole, Helen D., New York, N. Y. Table stand or similar article. 166,528, Apr. 22.

Conant, Wallace B., Concord, Mass. Font of type. 166,529, Apr. 22.

Coro, Inc., assignee: *See*—
Katz, Adolph.

Couse, Kibbey W., Newark, N. J. Mobile repair shop. 166,530, Apr. 22.

Daniels, Israel, Flushing, N. Y. Bracelet or similar article. 166,531, Apr. 22.

Edler, George E., Halls, Tenn. Combined chest and telephone stand, or similar article. 166,532, Apr. 22.

Freeman, Edwin T., Dallas, Tex. Baby gate. 166,535, Apr. 22.

Gault, George, New York, N. Y. Watch and clock dial or similar article. 166,533, Apr. 22.

General Motors Corporation, assignee: *See*—
Loewy, Raymond.

Goodrich, B. F., Company, The, assignee: *See*—
Billingsley, William F.

Grady, Martin J., Bridgman, Mich. Toilet paper holder. 166,534, Apr. 22.

Harris, William C., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Aerosol spray head. 166,536, Apr. 22.

Harris, William C., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Aerosol spray head. 166,537, Apr. 22.

Hercules Steel Products Corporation, assignee: *See*—
Altemiller, Arthur D.

Hughes, John J., Jr., and C. B. Stevens, assignors to Milwaukee Gas Specialty Company, Milwaukee, Wis. Thermostat housing. 166,538, Apr. 22.

Hutchason, Willis K., Los Angeles, Calif. Chair. 166,539, Apr. 22.

Johnson, Gordon, Company, assignee: *See*—
Zebarth, Ralph S.

Johnson, S. C., & Son, Inc., assignee: *See*—
Harris, William C.
Palma, Joseph, Jr.

Kantor, Russell P., assignor to Alex. Lee Wallau Inc., New York, N. Y. Lady's footcap or the like. 166,540, Apr. 22.

Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 166,551, Apr. 22.

Kramer, Murray B., assignor to Richlite Manufacturing Company, Chicago, Ill. Automobile gasoline door guard. 166,541, Apr. 22.

Kunett, Rudolph P., West Hartford, Conn. Bottle. 166,542, Apr. 22.

Laska, David, New York, N. Y., assignor to Textileather Corporation, Toledo, Ohio. Flexible plastic film. 166,543, Apr. 22.

Loecy, Joseph, Jr., Euclid, Ohio. Diamond tool for dressing grinding wheels. 166,544, Apr. 22.

Loewy, Raymond, New York, N. Y., assignor to General Motors Corporation, Dayton, Ohio. Ice-maker cabinet. 166,545, Apr. 22.

Milwaukee Gas Specialty Company, assignee: *See*—
Hughes, John J., Jr., and Stevens.

Munroe, Richard G., Lexington, assignor to Raytheon Manufacturing Company, Newton, Mass. Control knob. 166,546, Apr. 22.

National Silver Company, assignee: *See*—
Bernstein, Milton.

Onondaga Pottery Company, assignee: *See*—
Otis, Edward M.

Otis, Edward M., assignor to Onondaga Pottery Company, Syracuse, N. Y. Dinner plate or similar article. 166,547, Apr. 22.

Palma, Joseph, Jr., Berwyn, Ill., assignor to S. C. Johnson & Son, Inc., Racine, Wis. Floor polisher. 166,548, Apr. 22.

Pearlstine, Morton, Bala Cynwyd, assignor to Bunting Glider Company, Philadelphia, Pa. Chair. 166,549, Apr. 22.

Pearlstine, Morton, Bala Cynwyd, assignor to Bunting Glider Company, Philadelphia, Pa. Chair. 166,550, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,552, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,553, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,554, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,555, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,556, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,557, Apr. 22

Peters, Leo, Evanston, Ill. Molded food product. 166,558, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,559, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,560, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,561, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,562, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,563, Apr. 22.

Peters, Leo, Evanston, Ill. Molded food product. 166,564, Apr. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,565, Apr. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,566, Apr. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,567, Apr. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,568, Apr. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,569, Apr. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,570, Apr. 22.

Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,571, Apr. 22.

Pond, Harold J., assignor to Advance Machine Company, Minneapolis, Minn. Floor polishing machine. 166,572, Apr. 22.
Potchen, Joseph A., Grand Rapids, Mich. Handle for trays. 166,573, Apr. 22.
Potchen, Joseph A., Grand Rapids, Mich. Handle for trays. 166,574, Apr. 22.
Rabezzana, Hector, Fenton, Mich. Sewing machine. 166,575, Apr. 22.
Raytheon Manufacturing Company, assignee: *See*— Munroe, Richard G.
Richlite Manufacturing Company, assignee: *See*— Kramer, Murray B.
Rodman, Clarence J., Alliance, Ohio. Lavatory. 166,576, Apr. 22.
St. Thomas Inc., assignee: *See*— St. Thomas, William H.
St. Thomas, William H., assignor to St. Thomas Inc., Gloversville, N. Y. Sock purse. 166,579, Apr. 22.
Smey, Justine, Great Neck, N. Y. Portable cooking and accessory unit for educational demonstration. 166,577, Apr. 22.
Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Temple for spectacles or the like. 166,578, Apr. 22.
Stevens, Clifford B.: *See*— Hughes, John J., Jr., and Stevens.
Superior Plastics Inc., assignee: *See*— Black, John M.
Textileather Corporation, assignee: *See*— Laska, David.
Thompson, Harriet M., Ridgefield, Conn. Multipurpose table. 166,580, Apr. 22.
Trifari, Krussman & Fishel, Inc., assignee: *See*— Philippe, Alfred.
Uihlein, George V., assignor to M. J. Whittall Associates, Inc., Worcester, Mass. Carpet or similar article. 166,581, Apr. 22.
Virginia Parks, Inc., assignee: *See*— Buckingham, John D.
Wallau, Alex. Lee, Inc., assignee: *See*— Kantor, Russell P.
Wendt, Robert H., Evanston, Ill. Toy horse. 166,582, Apr. 22.
Whittall, M. J., Associates, Inc., assignee: *See*— Uihlein, George V.
Zebarth, Ralph S., Hickman Mills, assignor to Gordon Johnson Company, Kansas City, Mo. Poultry hanging shackle. 166,583, Apr. 22.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aberney Corporation, assignee: *See*— Berney, Harold J.
Abreu, Henry J., assignor of one-half to A. O. Dupuy, Newburgh, N. Y. Brick unit form. 2,593,954, Apr. 22.
Ackermann, Otto, Irwin, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Lightning arrester. 2,593,955, Apr. 22.
Adams, Berne C., Mehoopany, Pa. Hay drying machine. 2,593,401, Apr. 22.
Adamson, Frank M.: *See*— Cadwell, Clarence J., and Adamson.
Adler, André, and R., Paris, France. Feeding and cutting means for forming fasteners. 2,593,715, Apr. 22.
Adler, Robert: *See*— Adler, André and R.
Affiliated Gas Equipment, Inc., assignee: *See*— Horn, Artemus J.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*— Kaplan, Arthur M., and Solowey.
Air Reduction Company, Incorporated, assignee: *See*— Bridges, Robert.
Crego, Francis T.
Hamilton, James K.
Aitchison, John P., Washington, D. C., and A. C. Bonkemeyer, Falls Church, Va., assignors to the United States of America as represented by the Secretary of the Army. Gunrack. 2,593,402, Apr. 22.
Albrecht, Albert W., McHenry, assignor to Oak Mfg. Co., Chicago, Ill. Electrical apparatus. 2,594,111, Apr. 22.
Albrecht, Fritz, C. M. Davison, and W. L. Lambdin, Jr., Baltimore, assignors to The Glenn L. Martin Company, Middle River, Md. Plastic identification sleeve forming machine. 2,593,514, Apr. 22.
Albrecht, Kurt, Pleasant Hills Borough, assignor to Hall Laboratories, Inc., Pittsburgh, Pa. Conductivity controlled dispenser. 2,593,825, Apr. 22.
Alco Valve Company, assignee: *See*— Ives, Clifford B.
Rose, Howard E.
Alden, Martha M., Tulsa, Okla. Power-operated eraser for electric typewriters. 2,593,515, Apr. 22.
Alderman, Harry M., Chicago, Ill. Car replacer. 2,593,956, Apr. 22.
Alexander, Harry S., assignor to Keystone View Company, Meadville, Pa. Stereoscopic rotator for rotating stereoscopic pictures. 2,593,826, Apr. 22.
Allen, Richard E., South Orange, assignor of one-half to J. H. Bolen, Jr., Orange, N. J. Fishing device. 2,593,716, Apr. 22.
Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Fluid leakage gauging device. 2,593,957, Apr. 22.
Aller, Willis F., assignor to The Sheffield Corporation, Dayton, Ohio. Apparatus for gauging and for selecting articles according to size. 2,593,958, Apr. 22.
Alley, Dwight A.: *See*— Alley, Samuel D., J. C., and D. A.
Alley, Joseph C.: *See*— Alley, Samuel D., J. C., and D. A.
Alley, Samuel D., Waldron, and J. C. and D. A. Alley, Anthony, Kans. Distributor. 2,593,516, Apr. 22.
Allied Chemical & Dye Corporation, assignee: *See*— Hayworth, Curtis B.
Allis-Chalmers Manufacturing Company, assignee: *See*— De Windt, Joseph J. and G.
Halter, Allan C.
Kuehlthau, John L.
Allmanna Svenska Elektriska Aktiebolaget, assignee: *See*— Carlsson, Johan E., Landau, and Törnros.
American Brake Shoe Company, assignee: *See*— Dalrymple, William P.
American Can Company, assignee: *See*— Cummings, Roy E.
Nordquist, Ronald E. J.
American Cyanamid Company, assignee: *See*— Simons, William G.
American Hospital Supply Corporation, assignee: *See*— Johnson, Roy.
American Viscose Corporation, assignee: *See*— Cornwell, Ralph T. K., and Zender.
Francis, Carleton S., Jr.
Guy, Warren H.
McGinn, James B.
Amey, Georges, Les Loges en Josas, assignor to Societe Anonyme dite: Automobiles Industriels Latil, Suresnes, France. Tractor coupling arrangement. 2,593,645, Apr. 22.
Anchor Hocking Glass Corporation, assignee: *See*— Gora, Henry Z.
Stover, Harry E.
Anderson, Oscar M., New Britain, Conn., assignor, by mesne assignments, to Crosley Division, Avco Manufacturing Corporation, Cincinnati, Ohio. Washing machine provided with loading and unloading passageway. 2,594,112, Apr. 22.
Anderson, William H., Elkridge, D. S. Shingler, and B. Boyd, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Dielectric heating unit. 2,593,959, Apr. 22.
Andresen, John H., Jr., Port Washington, assignor, by mesne assignments, to Kollsman Instrument Corporation, Elmhurst, N. Y. Magnetic drag tachometer. 2,593,646, Apr. 22.
Angulo, José, San Francisco, Calif. Illuminated sprinkler. 2,593,517, Apr. 22.
Anspon, Harry D., Easton, and F. E. Pschorr, Bethlehem, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Casting sheets of polymerized α-chloroacrylic acid esters. 2,593,827, Apr. 22.
Anstett, Edgar P., assignor to Powernail Company, Chicago, Ill. Nail or pin. 2,593,647, Apr. 22.
Arey, Ralph G., assignor to Ward Machine Company, Inc., Brockton, Mass. Handle-container for different size hexagonal wrenches. 2,593,828, Apr. 22.
Arkansas Company, Inc., assignee: *See*— Cook, Alton A., and Sapers.
Arledter, Hanns, Koln-Kalk, and R. Engelhardt, Leverkusen-Bayerwerk, assignors to Farbenfabriken Bayer, Leverkusen, Germany. Electrical capacitor and foil therefor. 2,593,829, Apr. 22.
Armour and Company, assignee: *See*— Thompson, Robert E.
Army, United States of America as represented by the Secretary of the, assignee: *See*— Aitchison, John P. and Bonkemeyer.
Ashaway Line & Twine Mfg. Co., assignee: *See*— Crandall, Julian T.
Askin, Joseph, Chicago, Ill., assignor, by mesne assignments, to Electrimatic Company. Fluid flow sight glass. 2,594,113, Apr. 22.
"Ateliers de Constructions Lavalette," assignee: *See*— Schmitt, Désiré.
Atlantic Refining Company, The, assignee: *See*— Goldsmith, Lester M.
Attorney General of the United States, Vested in the: *See*— Jastrzebski, Wincenty.
Aubert, Fred B., Detroit, Mich. Electrical fuel burner control system and apparatus therefor. 2,593,518, Apr. 22.
Aukers, Albert J. and R. A. Church, assignors to Victor Manufacturing & Gasket Co., Chicago, Ill. Gasket clip. 2,593,648, Apr. 22.
Automatic Equipment Manufacturing Company, assignee: *See*— McIntosh, Harold J.
Automotive Products Company Limited, assignee: *See*— Clench, Edward C. S.
B. V. C. Electronics Developments Limited, assignee: *See*— Briggs, George.
Babcock & Wilcox Company, The, assignee: *See*— Wilcoxson, Leslie S.
Babington, Roy D.: *See*— Torregrossa, Robert E., and Babington.
Bachman Bros., Inc., assignee: *See*— Van Sciver, Earl T.
Baehr, Carl G., West Haven, and H. H. Russell, assignors to The Geist Manufacturing Company, New Haven, Conn. Ruffler attachment for sewing machines. 2,593,519, Apr. 22.
Bailey, Donald, Puritan Mines, W. Va. Door with closing and protecting assembly. 2,593,403, Apr. 22.
Bailey Meter Company, assignee: *See*— Dickey, Paul S.
Hornfeck, Anthony J.
Baker, Harry E., Seattle, Wash. Liquid sampler. 2,593,830, Apr. 22.
Baker Oil Tools, Inc., assignee: *See*— Baker, Reuben C., and Kriegel.
Baker, Reuben C., Coalinga, and B. Kriegel, Los Angeles, assignors to Baker Oil Tools, Inc., Vernon, Calif. Well cementing apparatus. 2,593,520, Apr. 22.

Ball, Charles F., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Fluid operated clutch. 2,593,521, Apr. 22.

Ballew, Frank E., Woodland, Mich. Apparatus for marking road surfaces. 2,593,960, Apr. 22.

Ballou, Richard P., Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J. Current distribution and control unit. 2,593,961, Apr. 22.

Bank, Albert M., Jersey City, N. J. Fastening means for the ends of spring members used in furniture and the like. 2,593,831, Apr. 22.

Bannon, Thomas C., assignee: *See* — Spencer, Lloyd.

Baracate, Stephen, Troy, N. Y. Infant's feeding device. 2,594,114, Apr. 22.

Barclay, Gaylord A., South Orange, N. J. Adjustable foundation garment. 2,593,832, Apr. 22.

Barker, John W., Mount Vernon, N. Y., assignor to Houdry Process Corporation, Wilmington, Del. Sealing hydrocarbon conversion housings. 2,593,404, Apr. 22.

Barker, Paul L., Detroit, Mich. Child's stroller. 2,593,962, Apr. 22.

Barnes, Charles M., assignor to Bendix Aviation Corporation, South Bend, Ind. Valve. 2,593,522, Apr. 22.

Barrett, William E., Jr., and W. E., Sr., Aurora, Ill. Casket carrying truck. 2,593,717, Apr. 22.

Barrett, William E., Sr.: *See*— Barrett, William E., Jr., and W. E., Sr.

Basson, Arthur O., Capital Park, Pretoria, Transvaal, Union of South Africa. Pencil sharpener. 2,593,649, Apr. 22.

Bauger, Louis A. J., Vanves, assignor to Société Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France. Gas turbine engine with resonating combustion chambers. 2,593,523, Apr. 22.

Bauman, Frank M.: *See*— Beyer, Henry O., and Bauman.

Bausch & Lomb Optical Company, assignee: *See*— Stegeman, Raymond F. E.

Beam, Jon, Blue Ridge, Ga., assignor to Universal Oil Products Company, Chicago, Ill. Apparatus for recovery of finely divided particles. 2,593,718, Apr. 22.

Beatrice, Gabriel C., Shrewsbury, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Bunter for weft replenishing looms. 2,593,833, Apr. 22.

Bechik, Joseph, St. Paul, Minn. Adjustable fishline dobber. 2,593,524, Apr. 22.

Beck, Leslie R. D., Birmingham, England. Fixing photograph on glass. 2,593,396, Apr. 22.

Beckham, Robert R., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Preparing a plastic sheet. 2,593,405, Apr. 22.

Beckham, Robert R., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Glare-reducing windshield. 2,593,525, Apr. 22.

Belanger, Mariette, assignee: *See*— Galbois, Auguste G.

Bell, Locklin S., Hales Corners, and T. W. Maltby, West Allis, Wis., assignors to General Electric Company. X-ray shutter. 2,593,526, Apr. 22.

Bell Telephone Laboratories, Incorporated, assignee: *See*— Haines, William T., and Newsom.
Holman, Erwin W.
Kinzer, John P.
Peterson, Eugene.
Riess, Robert R.
Scoville, Ray R.
Soffel, Robert O.

Bemis Bro. Bag Company, assignee: *See*— Pierce, Robert E.

Bendix Aviation Corporation, assignee: *See*— Barnes, Charles M.
Lee, Richard A.
Long, Richard H., and Prather.
Metsger, Charles S.
Price, Earl R.

Bennett, William O., Jr., assignor to Hamilton Watch Company, Lancaster, Pa. Time comparator. 2,593,650, Apr. 22.

Berck, William F., assignor to Ralph N. Brodie Company, Oakland, Calif. Valve. 2,593,527, Apr. 22.

Berden, Amedie C.: *See*— Den Hertog, Martinus, and Berden.

Bergen Machine & Tool Company, Inc., assignee: *See*— Brown, Charles K., Jr.

Bergstein, Frank D., Cincinnati, Ohio. Transparent tray-like structure. 2,593,834, Apr. 22.

Berney, Harold J., Washington, D. C., assignor to Aberney Corporation, Bethesda, Md. Rotatably adjustable antenna. 2,594,115, Apr. 22.

Berry, Clifford E., Altadena, assignor to Consolidated Engineering Corporation, Pasadena, Calif. Variable resolution collector system. 2,593,407, Apr. 22.

Berry, David A., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Dyestuffs and making same. 2,593,406, Apr. 22.

Bets Corporation, assignee: *See*— Knapp, Andrew E.

Beyer, Henry O., and F. M. Bauman, Morton, Ill. Cover for rotary brush sweepers. 2,594,116, Apr. 22.

Biehl, Charles B., assignor to D. D. and C. D. Goff, and A. N. Rubin, doing business as Duchess Hosiery Mills, West Grove, Pa. Stocking heel construction. 2,593,719, Apr. 22.

Bielawski, Mitchell S., assignor to Universal Oil Products Company, Chicago, Ill. Supported phosphoric acid catalyst containing a pitch resin binder and its preparation. 2,593,720, Apr. 22.

Biggert, Florence C., Jr., and H. H. Talbot, assignors to United Engineering and Foundry Company, Pittsburgh, Pa. Apparatus for forming tubes. 2,593,835, Apr. 22.

Biggs, Leonard R., Schenectady, N. Y., assignor to General Electric Company. Binary cycle power plant having a high melting point tertiary fluid for indirect heating. 2,593,963, Apr. 22.

Birckhead, Taylor A., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electronic timer. 2,593,964, Apr. 22.

Bird, Lester F., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J. Wattage control system for vapor arc lamps. 2,593,651, Apr. 22.

Bishop & Babcock Manufacturing Company, The, assignee: *See*— Getz, Arnstead G.

Blackwell, Preston J., Emerson, N. J., assignor to Robert Gair Company, Inc., New York, N. Y. Carton feeding apparatus. 2,593,965, Apr. 22.

Blanchard, Louis, Saint Cloud, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Making soluble solid silicates. 2,593,652, Apr. 22.

Boardman, Harry C., Chicago, Ill., assignor to Chicago Bridge & Iron Company. Squaroid. 2,593,408, Apr. 22.

Bock, Otto H., Jacksonville, Fla. Closed receptacle for cigarette ash. 2,593,836, Apr. 22.

Body Guard-Valve Co., Inc., assignee: *See*— Sanford, Paul W.

Bolen, John H., Jr., assignee: *See*— Allen, Richard E.

Bolley, Don S., and R. H. McCormack, Brooklyn, assignors to National Lead Company, New York, N. Y. Mucilaginous materials from flaxseed. 2,593,528, Apr. 22.

Bolton, Felix, Sr., assignor of one-half to C. Clayton, Chowchilla, Calif. Feeder for hay baling machines. 2,593,721, Apr. 22.

Bonardi, Giusto F.: *See*— Freedman, Samuel, and Bonardi.

Bonkemeyer, Amos C.: *See*— Aitchison, John P., and Bonkemeyer.

Bonotto, Michele, Princeton, N. J. Prepared cotton seed material for solvent-extraction and processes for preparation and solvent-extraction of cotton seed materials. 2,594,117, Apr. 22.

Borg-Warner Corporation, assignee: *See*— Hubacker, Earl F.
Kelbel, Donald W.
Swift, Clifford L.

Borglin, Joseph N., assignor to Hercules Powder Company, Wilmington, Del. Rosin amine algaecides. 2,593,529, Apr. 22.

Born, Samuel H., Bethlehem, Pa. Container with individual inscription. 2,593,966, Apr. 22.

Bornzin, James H., Memphis, Tenn., assignor to International Harvester Company. Two-way safety release for needle drive for balers. 2,593,653, Apr. 22.

Bostock, Edward C., Bryn Athen, Pa., assignor to The Pitcairn Company, Wilmington, Del. Lubricated plug valve. 2,593,967, Apr. 22.

Bothe, Werner H., Kenosha, assignor to Worldsbest Industries, Inc., Cudahy, Wis. Leveling bridge. 2,593,722, Apr. 22.

Bothe, Werner H., Kenosha, and H. J. Miller, assignors to Worldsbest Industries, Inc., Cudahy, Wis. Leveling bridge. 2,593,723, Apr. 22.

Bouvat-Martin, Jean, assignor to Societe-Anonyme dite: Societe Generale Isothermos, Paris, France. Mechanical lubrication of axle boxes. 2,593,654, Apr. 22.

Bouvier, Harold K.: *See*— Jensen, Hubert M., and Bouvier.

Bouwers, Albert, assignor to N. V. Optische Industrie "De Oude Delft," Delft, Netherlands. Microscope with reflecting objective. 2,593,724, Apr. 22.

Bowan, Walter J., and F. Tratzik, assignors to Mueller Co., Decatur, Ill. Lubricated valve. 2,593,968, Apr. 22.

Bowser, Inc., assignee: *See*— De Haven, La Vern H.
Klopfenstein, Gerald J.

Bowtell, William J., Bromley, England. Sluice gate. 2,593,969, Apr. 22.

Boyce Thompson Institute for Plant Research, Inc., assignee: *See*— Denny, Frank E.

Boyd, Bruce: *See*— Anderson, William H., Shingler, and Boyd.

Boyd, Winnett, Bobcaygeon, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Heated intake component for gas turbine engines. 2,594,118, Apr. 22.

Bradley, Rolland A., assignee: *See*— Hess, Clem H.

Brahmer, Leland F., and R. P. Hanna, Wilkinsburg, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Trolley conductor insulator. 2,593,970, Apr. 22.

Braithwaite, Isaac, & Son Engineers Limited, assignee: *See*— Walker, Thomas B.

Brandt, Richard J., Minneapolis, Minn. Latch mechanism. 2,593,971, Apr. 22.

Branson, Nathan E., assignor to E. C. Matignon, Oakland, Calif. Frog making machine. 2,594,119, Apr. 22.

Bray, Arthur, Sacramento, Calif. Lubricator. 2,593,972, Apr. 22.

Breier, Marcus, Sons, Inc., assignee: *See*— Fitch, Albert R.

Bridges, Robert, New Rochelle, assignor to Air Reduction Company, Incorporated, New York, N. Y. Production of carbon dioxide. 2,593,530, Apr. 22.

Briggs, George, assignor to B. V. C. Electronics Developments Limited, London, England. Remote control device. 2,593,973, Apr. 22.

Bristol Laboratories Inc., assignee: *See*— Cooper, Douglas E.

Brodie, Ralph N., Company, assignee: *See*— Berck, William F.

Brooks, T. J., (Autos) Limited, assignee: *See*— Heyne, William O.

Broschke, Heinrich, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Motor and brake control. 2,593,837, Apr. 22.

Brower, William S., Jr.: *See*— Schlachman, Benjamin, and Brower.

Brown, Charles K., Jr., Fairmont, W. Va., assignor to Bergen Machine & Tool Company, Inc. Straight line block molding machine. 2,593,409, Apr. 22.

Brown, Cicero C., Houston, Tex. Casing repairing device. 2,593,725, Apr. 22.

Brown, Myron J., and F. F. Lukaszewicz, Pittsburgh, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switchboard construction. 2,593,975, Apr. 22.

Brown, Robert P., White Plains, N. Y. Ski sled. 2,593,974, Apr. 22.

Brown, Wesley H., Knoxville, Tenn. Valve mechanism. 2,593,531, Apr. 22.

Brownell, William F., Jr.: *See*— Saunders, Harold E., Lee, Marvinney, and Brownell.

Bruestle, Carl O., Metuchen, assignor to Syncro Machine Company, Perth Amboy, N. J. Reel chuck cradle for stranding machines. 2,593,838, Apr. 22.

Brush Development Company, The, assignee: *See*— Swinehart, Frank.

Buc, Saul R., Northampton County, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Diazotype photoprinting material. 2,593,839, Apr. 22.

Buc, Saul R., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. m-Phthalimidomethyl derivatives of aniline, nitrobenzene, and nuclear substitution products thereof. 2,593,840, Apr. 22.

Buchanan, Robert A.: *See*— Hibbard, Lloyd J., Casanova, and Buchanan.

Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Seal. 2,593,410, Apr. 22.

Buckeye Steel Castings Company, The, assignee: *See*— Settles, James C., and Furniss.

Bucyrus-Erie Company, assignee: *See*— Thierry, John A.

Burbank, William E.: *See*— McFarland, Arley, Reetz, and Burbank.

Burchsted, Algernon R., Ridgewood, N. J. Lubricating apparatus. 2,593,841, Apr. 22.

Burge, William E., Winston-Salem, N. C. Apparatus for cutting blocks. 2,593,726, Apr. 22.

Burk, Paul W.: *See*— Chadwick, George A., and Burk.

Burkhardt, Charles E.: *See*— Ellis, Belvin B., Horstman and Burkhardt.

Burrell, Harold P., Noroton, Conn. Impact drill apparatus. 2,593,532, Apr. 22.

Burrell, Harry, Milburn, and P. M. Clark, Roselle, N. J., assignors to Interchemical Corporation, New York, N. Y. Composition comprising ethyl cellulose and a fatty oil acid modified alkyd resin. 2,593,976, Apr. 22.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*— Walls, Leslie P., and Whittaker.

Burrows, Robert J., and A. O. Williams, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Resilient wheel. 2,593,977, Apr. 22.

Burton-Dixie Corporation, assignee: *See*— Wunderlich, William E.

Busher, Frank J., Newport, Ky. Float and line retriever. 2,594,120, Apr. 22.

Byer, Henry E., Bernardsville, N. J. Vapor condensing apparatus. 2,593,655, Apr. 22.

Cadwell, Clarence J., Carpinteria, and F. M. Adamson, Los Angeles, assignors to The Cadwell Corporation, Beverly Hills, Calif. Electric circuit timing switch. 2,593,727, Apr. 22.

Cadwell Corporation, The, assignee: *See*— Cadwell, Clarence J., and Adamson.

Cajumi, Franz, Innsbruck, Austria, assignor of one-half to L. Coleman, New York, N. Y. Ignition device. 2,593,978, Apr. 22.

Calabrese, Vincenzo, Turin, Italy. Indicating handgrip. 2,594,121, Apr. 22.

Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Bis (4-β-hydroxyalkoxyphenyl) sulfones and polyesters prepared therefrom. 2,593,411, Apr. 22.

Calhoun, Jack A., assignor to Skycraft Mfg. Corp., Long Beach, Calif. Tethered toy airplane. 2,593,979, Apr. 22.

Calicchio, David J., Boston, Mass. Surgical drainage tube. 2,593,980, Apr. 22.

Camarena, Fernando: *See*— Legorreta, Luis G., Posada, and Camarena.

Cammarato, James V., Washington, D. C. Protector for gas cylinder valves. 2,593,533, Apr. 22.

Campanelli, Anthony M., New York, N. Y. Quick detachable toilet hinge post fastener. 2,593,534, Apr. 22.

Campbell, Richard L., Melrose, Mass., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J. Phase discriminator. 2,593,842, Apr. 22.

Cannon, Ernest E., assignor to Valley Products Corporation, Lyford, Tex. Crate disassembling and salvaging machine. 2,593,843, Apr. 22.

Cannon, Madison M., Jr., West Hartford, Conn., assignor to Emhart Manufacturing Company. Method and apparatus for handling glass batch. 2,593,535, Apr. 22.

Cannon Reginald: *See*— Ware, Richard N., Jr., and Cannon.

Cantrell, Troy L.: *See*— Smith, Herschel G., and Cantrell.

Capita, Emil R., North Bergen, N. J. Electrical connector. 2,593,981, Apr. 22.

Carlsson, Johan E., F. Landau and E. Törnros, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden. Leveling device for mine hoists and other elevators. 2,593,844, Apr. 22.

Carpenter, Charles R., Robbinsdale, Minn. Casting bobber. 2,593,728, Apr. 22.

Casanova, Louis A.: *See*— Hibbard, Lloyd J., Casanova, and Buchanan.

Case, J. I., Company, assignee: *See*— Schroeppel, Paul R.

Casey, Harry J., assignee: *See*— Stokes, William P.

Cash, Claude D., Chicago, Ill. Rolling massager for increasing blood circulation. 2,593,982, Apr. 22.

Cashman, Robert J., Glenview, Ill., assignor to Research Corporation, New York, N. Y. Photocell-filter combination. 2,594,122, Apr. 22.

Casimir, Hendrik B. G., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Apparatus for the acceleration of electrons. 2,593,845, Apr. 22.

Cater, Roy M., assignor to E. L. Hightower, Washington, D. C. Foldable ironing board. 2,594,123, Apr. 22.

Celanese Corporation of America, assignee: *See*— Edwards, Walter R.
Pool, William, and Taylor.

Century Aircraft Co., assignee: *See*— Jensen, Hubert M., and Bouvier.

Chadwick, George A., Detroit, Mich., and P. W. Burk, Washington, D. C. Gun rammer. 2,593,412, Apr. 22.

Chalupa, Emil, New York, N. Y. Smokeless coffee roasting apparatus. 2,593,983, Apr. 22.

Chamberlain, Owen: *See*— Wiegand, Clyde E., and Chamberlain.

Chamberlin, Reginald H. D., and C. H. L. Wynne, London, and J. Skellern, Northolt, assignors to D. Napier & Son Limited, London, England. Fuel metering and airscrew pitch control mechanism. 2,593,536, Apr. 22.

Charbonneau, Allan P., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Anticorrosion mounting for electric immersion heaters. 2,594,255, Apr. 22.

Charlesworth, Percy A., Adlington, near Macclesfield, England. Electrolytic polishing of metals. 2,594,124, Apr. 22.

Charnley, Thomas P.: *See*— Weber, Jack, and Parkinson.

Chesnut, John D., assignee: *See*— Spencer, Lloyd.

Chicago Bridge & Iron Company, assignee: *See*— Boardman, Harry C.

Chicago Mill and Lumber Company, assignee: *See*— Ware, Richard N., Jr., and Cannon.

Chicago Rawhide Manufacturing Company, assignee: *See*— Krug, Louis G.

Chireix, Henri, Paris, France, assignor to Societe Francaise Radio-Electrique. Motor speed control mechanism. 2,593,656, Apr. 22.

Church, Raymond A.: *See*— Aukers, Albert J., and Church.

Cities Service Oil Company, assignee: *See*— Greenwald, Bertrand W., and Hughes.

Cities Service Refining Corp., assignee: *See*— Cool, Ralph H.

Clack, Basil N., Wembley Park, England, assignor to General Electric Company. Sealed envelope and manufacture. 2,593,846, Apr. 22.

Clark Equipment Company, assignee: *See*— Burrows, Robert J., and Williams.

Clark, James D., and G. J. Montopoli, assignors to Corning Glass Works, Corning, N. Y. Glass feeder and feeding mold charges. 2,594,125, Apr. 22.

Clark, John W., Buffalo, Mo. Toolholder. 2,593,847, Apr. 22.

Clark, Percy M.: *See*—
Burrell, Harry, and Clark.

Clark, Robert H., assignee: *See*—
Wilson, Harry C.

Clark, William, Jr.: *See*—
Davis, Elwood T., and Clark.

Clarke, Albert E., and A. K. North, Brierfield, Burnley, K. H. Holliday and J. S. Clarke, Burnley, assignors to Joseph Lucas Limited, Birmingham, England. Liquid fuel burner with diverse air paths and fuel vaporizer. 2,593,849, Apr. 22.

Clarke, John S.: *See*—
Clarke, Albert E., North, Holliday, and Clarke.

Clary, Frank A., Jr., and G. N. Willis, Bristol, Conn., assignors to Johnson Steel & Wire Company, Inc., Worcester, Mass. Tension control and stop motion for stranded wire cable making machines. 2,593,984, Apr. 22.

Clausen, Mads, Nordborg, Denmark. Flap valve automatically guided by a feeling member. 2,593,848, Apr. 22.

Clayton, Claud, assignee: *See*—
Bolton, Felix, Sr.

Clench, Edward C. S., assignor to Automotive Products Company Limited, Leamington Spa, England. Motor control for fluid pressure systems. 2,593,537, Apr. 22.

Cleveland, Donald M., Geneva, N. Y. Work holder. 2,593,538, Apr. 22.

Cleveland Steel Conditioner, Inc., assignee: *See*—
Graf, Edward H.

Coberly, Clarence J., Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio. Closed system hydraulic pump. 2,593,729, Apr. 22.

Cochrane, William R.: *See*—
McNabb, Walter J., and Cochrane.

Coe, George B., Upper Montclair, N. J., assignor to Tube Reducing Corporation, Stamford, Conn. Mill for reducing metal stock. 2,594,126, Apr. 22.

Cohen, Alexander, Los Angeles, Calif. Screen attaching and tensioning means. 2,593,539, Apr. 22.

Coleman, Louis, assignee: *See*—
Cajumi, Franz.

Coleman, Paul D.: *See*—
Meier, Allen S., and Coleman.

Coleman, William B., Crete, Ill., and G. M. Coté, Wellesley, Mass., assignors to Victor Chemical Works. Single-bath chrome dyeing processes and compositions, including ammonium sulfate and diammonium phosphate. 2,593,850, Apr. 22.

Collier, Raymond L., Lakewood, Ohio. Ice cube tray. 2,594,127, Apr. 22.

Columbian Carbon Company, assignee: *See*—
Howell, Maurice R.

Compagnie Industrielle des Telephones, assignee: *See*—
Garderè, Henri.
Jouguet, Marc.

Compton, Charles E., Shinnston, W. Va. Mining machine head. 2,594,256, Apr. 22.

Compton, Henry P., assignor to The Simplex Company, Abilene, Tex. Parking coin depository. 2,593,985, Apr. 22.

Comstock, Clarence A., New Britain, Conn. Combination gauge and fixture set. 2,593,986, Apr. 22.

Conn, Ellard G.: *See*—
Kohn, Ellard G.

Consolidated Engineering Corporation, assignee: *See*—
Berry, Clifford E.
Washburn, Harold W.

Consolidated Products Company, assignee: See—
Lewis, Dan.

Cook, Alton A., Glen Ridge, and I. Sapers, assignors to Arkansas Company, Inc., Newark, N. J. Fatty acid-alkoxypolyglycol aliphatic amine combinations useful as textile surface agents. 2,593,413, Apr. 22.

Cool, Ralph H., assignor to Cities Service Refining Corp., Lake Charles, La. Removing mercaptans from hydrocarbons. 2,593,851, Apr. 22.

Coon, Allyn J., Wauwatosa, and W. W. Gruel, Milwaukee, Wis., assignors to International Harvester Company. Air swept crusher for fluorescent light tubes. 2,593,657, Apr. 22.

Coons, Robert J., Chicago, and C. A. Todaro, Mount Prospect, Ill., assignors to Gillette Safety Razor Company, Boston, Mass. Producing alpha-mercapto-carboxylic acids. 2,594,030, Apr. 22.

Cooper, Douglas E., Syracuse, N. Y., assignor to Bristol Laboratories Inc. Penicillin amides. 2,593,852, Apr. 22.

Copenhaver, John W., Short Hills, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Δ^3-Pyrrolinyl compounds and derivatives thereof. 2,593,853, Apr. 22.

Cornell, Dana R., East Chicago, assignor to Standard Forging Corporation, Chicago, Ill. Apparatus for making pierced forged hubs and the like. 2,593,730, Apr. 22.

Corning Glass Works, assignee: *See*—
Clark, James D., and Montopoli.
Sundstrom, Roy N.

Cornwell, Ralph T. K., Fredericksburg, Va., and J. Zender, Ardsley, N. Y., assignors, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Semipermeable membrane. 2,593,540, Apr. 22.

Cory Corporation, assignee: *See*—
Peters, Herbert W.

Coté, Gerald M.: *See*—
Coleman, William B., and Coté.

Coulliette, James H., assignor to Industrial Research Institute of the University of Chattanooga, Chattanooga, Tenn. Knitting machine presser edge. 2,594,128, Apr. 22.

Courtney, Frederick M., Scotia, and H. H. P. Lemmerman, Schenectady, N. Y., assignors to General Electric Company. Three-phase motor control apparatus. 2,593,987, Apr. 22.

Cousteau, Jacques Y., Paris, France. Diving apparatus. 2,593,988, Apr. 22.

Cowdrey, Cecil L., Markyate, and K. H. Greenly, Luton, assignors to D. Napier & Son Limited, London, England. Cooling apparatus for use with aero or other engines. 2,593,541, Apr. 22.

Craig Kemp Limited, assignee: *See*—
Kemp, Jack V. L.

Crandall, Julian T., Ashaway, R. I., assignor to Ashaway Line & Twine Mfg. Co. Outrigger rod. 2,593,989, Apr. 22.

Creed and Company Limited, assignee: *See*—
Salmon, Reginald D., and Turner.

Creek, John O., Brampton, Ontario, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada. Tool dresser for pattern controlled machine tools. 2,594,130, Apr. 22.

Crego, Francis T., East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y. Preparing surfaces for tinning. 2,594,129, Apr. 22.

Cristell, Anton T., Scotch Plains, N. J. Miniature toy string instrument. 2,593,990, Apr. 22.

Crompton & Knowles Loom Works, assignee: *See*—
Beatrice, Gabriel C.

Crosby, Lemuel S., Towaco, N. J. Mechanical toy simulating a galloping horse. 2,593,991, Apr. 22.

Crosley Division, Avco Manufacturing Corporation, assignee: *See*—
Anderson, Oscar M.

Crouch, Willie W., Bartlesville, Okla., assignor to Phillips Petroleum Company. Mixing and coprecipitating a polysulfone resin latex with another latex. 2,593,414, Apr. 22.

Cryder, James W., Denver, Colo. Smoker's pipe. 2,593,731, Apr. 22.

Cullen, Charles C., Co. Inc., The, assignee: *See*—
Smith, Charles V.

Cummings, Roy E., Arlington, Mass., assignor to American Can Company, New York, N. Y. Sheet extractor device. 2,593,415, Apr. 22.

Curioni, Aldo R., assignor to Sarioni Company, Inc., New York, N. Y. Method and apparatus for severing and segregating macaroni. 2,593,542, Apr. 22.

Curioni, Aldo R., assignor to Sarioni Company, Inc., New York, N. Y. Method and machine for severing and handling materials such as macaroni or spaghetti. 2,593,543, Apr. 22.

Cutler-Hammer, Inc., assignee: *See*—
Charbonneau, Allan P.

Cutler, Phil, Brooklyn, and K. F. Ross, Bronx, N. Y. Electronic oscillator. 2,593,992, Apr. 22.

Dahl, Harry, and S. T. Moreland, Indianapolis, Ind., assignors, by mesne assignments, to John E. Fast & Co., Chicago, Ill. Metal foil perforator for capacitor winding machines. 2,593,993, Apr. 22.

Dahlman, Eben D., Grandly, Minn. Rod handling device. 2,593,732, Apr. 22.

Dahly, Harold W.: *See*—
Spinner, Isidore, and Dahly.

Daines, Leland A., Edmonds, Wash. Creased sheet metal panel and forming and applying such panels to frame structures. 2,594,131, Apr. 22.

Daisy Manufacturing Company, assignee: *See*—
Lefever, Charles F.
Wells, William S.

D'Alello, Gaetano F., Pittsburgh, Pa., assignor to Koppers Company, Inc. Polymerization process. 2,593,417, Apr. 22.

Dalrymple, William P., Rochester, N. Y., assignor to American Brake Shoe Company, Wilmington, Del. Intake type unloader for compressors and the like. 2,594,132, Apr. 22.

Dan River Mills, Incorporated, assignee: *See*—
Newton, Russell B.

Dance, Eldred L.: *See*—
Hill, Howard W., and Dance.

Danvers, Ellis: *See*—
Morris, Edward H., Danvers, and Godden.

Darling, Frank M.: *See*—
Menkin, Benjamin D., and Darling.

Davies, Robert H., assignor to The Parker Appliance Company, Cleveland, Ohio. Valve assembly. 2,593,733, Apr. 22.

Davis, Elwood T., Brookline, and W. Clark, Jr., assignors to Leeds and Northrup Company, Philadelphia, Pa. Control system with droop correction. 2,594,133, Apr. 22.

Davis, Harry S., Metropolis, Ill. Window seal structure. 2,593,658, Apr. 22.

Davis, Lou, Moncton, New Brunswick, Canada. Plumbing trap and the like. 2,593,734, Apr. 22.

Davis, William H. H., and F. V. Schleimer, San Francisco, Calif., said Schleimer assignor to Duart Manufacturing Co., Ltd. Hair curling device. 2,593,544, Apr. 22.

Davison, Clarence M.: *See*—
Albrecht, Fritz, Davison, and Lambdin.

Dawson, Edward, New York, N. Y., assignor to The Sperry Corporation. Automatic reversing mechanism. 2,593,416, Apr. 22.

Dean, Charles A., Los Angeles, Calif. Fishing tool. 2,593,994, Apr. 22.

De Barbe, Joseph R., Santa Rosa, Calif. Combination hinge and latch means for gates or the like. 2,593,545, Apr. 22.

Decca Record Company, Limited, The, assignee: *See*—
Umpleby, Kenneth F.

De Haven, La Vern H., assignor to Bowser, Inc., Fort Wayne, Ind. Concentric filter unit. 2,593,855, Apr. 22.

Delametter, Walter F., Phillips, Tex., assignor to Phillips Petroleum Company. Stuffing box assembly. 2,594,134, Apr. 22.

De Laval Separator Company, The, assignee: *See*—
Strezynski, George J.

Dell, Paul A., Highland Heights, Ohio, assignor to General Electric Company. Glass tube bending apparatus. 2,593,854, Apr. 22.

De Luca, Robert A.: *See*—
Vail, Daniel R., and De Luca.

Delzell, Walter C., Yuma, Ariz. Electric switchboard plug polisher. 2,593,735, Apr. 22.

Demetrak, George C., San Francisco, Calif., assignor to Perishables Shipping Equipment Company. Refrigeration. 2,593,736, Apr. 22.

Den Hertog, Martinus, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y. Discrimination of subscriber's line condition. 2,593,418, Apr. 22.

Den Hertog, Martinus, and A. C. Berden, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y. Class of line indication in telephone systems. 2,593,419, Apr. 22.

De Nie, Willem L. J., London, England, and G. E. Rumscheidt, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Producing filaments. 2,593,397, Apr. 22.

Denny, Frak E., Yonkers, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc. Inducing growth of dormant woody plants. 2,594,135, Apr. 22.

Deskin, Roy, Costa Mesa, Calif., and C. W. Savitz, South Euclid, Ohio, assignors to Iron John, Inc. Semiautomatic fishing device. 2,593,995, Apr. 22.

Detrick, M. H., Company, assignee: *See*—
Over, Raymond E.

Dewey and Almy Chemical Company, assignee: *See*—
Leydon, Arthur J.

De Weyer, Henricus J., Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee. Electric discharge tube of the kind comprising an indirectly heated cathode. 2,593,856, Apr. 22.

De Windt, Joseph J., and E. C. George, Cincinnati, Ohio, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Dynamoelectric machine with stator core secured in yoke by welded studs. 2,593,857, Apr. 22.

Diamond Alkali Company, assignee: *See*—
Berry, David A.

Dick, John R.: *See*—
Killinger, Arden H., and Dick.

Dickey, Paul S., East Cleveland, Ohio, assignor to Bailey Meter Company. Boiler efficiency instrument. 2,593,659, Apr. 22.

Dickey, Paul S., East Cleveland, Ohio, assignor to Bailey Meter Company. Instrument for measuring efficiency of turbogenerators. 2,593,660, Apr. 22.

Dickey, Paul S., East Cleveland, Ohio, assignor to Bailey Meter Company. Boiler efficiency instrument. 2,593,661, Apr. 22.

Dickinson, Henry R., assignor to Grand Rapids Hardware Company, Grand Rapids, Mich. Latch structure. 2,593,662, Apr. 22.

Diehl, Walter S., U. S. Navy. Variable area nozzle. 2,593,420, Apr. 22.

Diesslin, Albert R., and E. A. Kauck, St. Paul, Minn., and J. H. Simons, Gainesville, Fla., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Perfluorinated cyclohexyl carboxylic acid and cyclohexyl acetic acid and derivatives. 2,593,737, Apr. 22.

Dietsch, William H., Collingswood, N. J. Surgical splint. 2,593,546, Apr. 22.

Di Maggio, Samuel S., Jr., assignor to Taylor Instrument Companies, Rochester, N. Y. Pressure operated indicating apparatus. 2,594,136, Apr. 22.

Distillers Company Limited, The, assignee: *See*—
Goodings, Eric P., and Hadley.

Doermann, Albert J., Chicago, Ill., assignor to Titan Abrasives Company. Grinding wheel. 2,594,137, Apr. 22.

Dollahite, Kenneth J., Fort Worth, Tex. Padding rack for paper stock. 2,593,738, Apr. 22.

Dolton, Dorothy M., New York, and D. Smith, Riverdale, assignors to Interchemical Corporation, New York, N. Y. Optical density comparator. 2,593,996, Apr. 22.

Dorman, Leonard M., Meadville, Pa., assignor to Talon, Inc. Harness frame for looms. 2,593,997, Apr. 22.

Dorsam, William J., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Chart winding mechanism. 2,593,421, Apr. 22.

Dorsam, William J., La Fayette, L. A. Paine, and R. A. Road, West La Fayette, assignors to Duncan Electric Manufacturing Company, La Fayette, Ind. Chart advancing mechanism. 2,593,858, Apr. 22.

Dow Chemical Company, The, assignee: *See*—
Hill, Howard W., and Dance.

Draper Corporation, assignee: *See*—
Sanderson, Kenneth E.

Dresser Equipment Company, assignee: *See*—
Coberly, Clarence J.

Dri-Flo Manufacturing Co., assignee: *See*—
Patch, Anthony P.
Vosburg, Guy M.

Drum, Harry S., Abington, and A. Hopkins, assignors to Smith, Drum and Company, Philadelphia, Pa. Wool degreasing machine. 2,593,422, Apr. 22.

Duart Manufacturing Co., Ldt., assignee: *See*—
Davis, William H. H., and Schleimer.

Duchess Hosiery Mills, assignee: *See*—
Biehl, Charles B.

Duerksen, Arnold, assignor to Super Mold Corporation of California, Lodi, Calif. Matrix for tire treads with lateral traction slits. 2,593,547, Apr. 22.

Du Mont, Allen B., Laboratories, Inc., assignee: *See*—
Campbell, Richard L.

Duncan Electric Manufacturing Company, assignee: *See*—
Dorsam, William J.
Dorsam, William J., Paine, and Road.

Dunlap, Arthur H., Seattle, Wash. Shoulder-bead for use in dry wall construction. 2,593,859, Apr. 22.

Dunn, W. E., Mfg. Company, assignee: *See*—
Glassen, Charles E.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Loder, Donald J.
Lontz, John F.
Lontz, John F., and Robb.

Dupuis, Arthur G., Grosse Pointe Farms, assignor to Motor Products Corporation, Detroit, Mich. Retaining packages in stacked relationship. 2,593,998, Apr. 22.

Dupuy, Arthur O., assignee: *See*—
Abreu, Henry J.

Durant, Lyndon A., assignee: *See*—
Wolverton, Marcine P.

Durgin, Charles B., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Detergent composition. 2,594,257, Apr. 22.

Durgin, Charles B., Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Detergent composition. 2,594,258, Apr. 22.

Duschinsky, Robert, Essex Fells, assignor to Hoffmann-La Roche Inc., Roche Park, Nutley, N. J. Preparation of α-amino-α, α-diphenylacetic acid. 2,593,860, Apr. 22.

Eastman, Gilbert O., San Antonio, Tex. Safety valve. 2,593,423, Apr. 22.

Eastman Kodak Company, assignee: *See*—
Caldwell, John R.
Hagemeyer, Hugh J., Jr.

Eastman Oil Well Survey Company, assignee: *See*—
Johnson, Charles F.

Eastman, Samuel, Co. Inc., assignee: *See*—
Robinson, Elton E.

Eder, John F., and G. H. Wilcox, Sherman, Tex. Bottle carrier. 2,593,861, Apr. 22.

Edgerly, Fay H., Detroit, Mich. Hollow floor heating system. 2,593,424, Apr. 22.

Edwards, Walter R., Cumberland, Md., assignor to Celanese Corporation of America. Gas scrubbing device. 2,593,548, Apr. 22.

Eickmeyer, Allen G., Tulsa, Okla. Polymerization of formaldehyde and recovery of paraformaldehyde. 2,593,862, Apr. 22.

Eisler, Charles, South Orange, N. J. Vacuum flask sealing machine. 2,593,999, Apr. 22.

Elam, David L., Roselle, assignor to Electro Products Laboratories, Inc., Chicago, Ill. Electronic indicator. 2,594,138, Apr. 22.

Elder, Glenn C., Bowling Green, Mo. Lady's slip. 2,593,739, Apr. 22.

Electric Auto-Lite Company, The, assignee: *See*—
Stoltenberg, Delbert H.

Electrimatic Company, assignee: *See*—
Askim, Joseph.

Electro Products Laboratories, Inc., assignee: *See*—
Elam, David L.

Electrol S. A., assignee: *See*—
Legorreta, Luis G., Posada, and Camarena.

Elgeet Ontical Company, Inc., assignee: *See*—
Hopkins, Robert E., and Goldstein.

Elliott, Bernard V., Dewey, assignor to H. C. Price Co., Bartlesville, Okla. Electric line-up clamp. 2,594,000, Apr. 22.

Ellis, Belvin B., Sharon, C. C. Horstman, and C. E. Burkhardt, Sharpsville, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Three-phase core. 2,594,001, Apr. 22.

Ellis, Belvin B., Sharon, C. C. Horstman, and C. E. Burkhardt, Sharpsville, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Three-phase core. 2,594,002, Apr. 22.

Elmendorf, Armin, Winnetka, Ill. Producing sheets of indefinite length composed of slitted wood veneer and a flexible backing. 2,593,863, Apr. 22.

Else, Harry D., and P. J. Weber, Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Explosion-proof dynamoelectric machine. 2,594,003, Apr. 22.

Emhart Manufacturing Company, assignee: *See*— Cannon, Madison M., Jr.

Enabnit, Robert S., Cuyahoga Falls, assignor to Wingfoot Corporation, Akron, Ohio. Air bag or the like having frequency insulator therein. 2,594,139, Apr. 22.

Engelhardt, Rudolf: *See*— Arledter, Hanns, and Engelhardt.

England, John W., Iowa Falls, Iowa. Twine holder. 2,594,140, Apr. 22.

Enos, John P., Union, assignor to The Singer Manufacturing Company, Elizabeth, N. J. Universal feed cover plate for sewing machines. 2,593,864, Apr. 22.

Erdman, Donald C., Burbank, Calif. Ultrasonic flaw detector. 2,593,865, Apr. 22.

Ethyl Corporation, assignee: *See*— Krohn, Ivar T., and Shapiro. Shapiro, Hymin, and Krohn.

Evans, James E., Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Classifying system for pieces of solid material having unequal size. 2,593,425, Apr. 22.

Evans, Walter R., Bartlesville, Okla., assignor to Phillips Petroleum Company. Well casing gun. 2,593,866, Apr. 22.

Eweson, Eric W., Newport, R. I. Apparatus for making organic fertilizer. 2,593,867, Apr. 22.

Excel Movie Products, Inc., assignee: *See*— Karr, Philip L.

Exhibit Supply Company, The, assignee: *See*— Roeser, John O.

Fafnir Bearing Company, The, assignee: *See*— Reynolds, Harry R.

Fahnoe, Harold H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. High-voltage power fuse and the like. 2,593,426, Apr. 22.

Fairbanks, Morse & Co., assignee: *See*— Schowalter, Clarence H.

Fanelli, Joseph A., Des Moines, Iowa. Tool for severing metal bands on crates and the like. 2,593,663, Apr. 22.

Farbenfabriken Bayer, assignee: *See*— Arledter, Hanns, and Engelhardt.

Farber, L., Welting Company, assignee: *See*— Gemme, Leon H.

Farish, Robert E., Jr., Columbus, Ga. Shielded electrical connector. 2,594,004, Apr. 22.

Farnsworth Research Corporation, assignee: *See*— Sanders, Robert W.

Fast, John E., & Co., assignee: *See*— Dahl, Harry, and Moreland.

Faust, Stewart W., assignor to The Maytag Company, Newton, Iowa. Valve sealing assembly. 2,593,740, Apr. 22.

Faximile, Inc., assignee: *See*— Hester, Frank A.

Fearfield, George F., Eltham, London, and S. Parsons, Horley, assignors to Furness Withy & Company Limited, London, England. Apparatus for lifting and transporting wheeled vehicles. 2,593,664, Apr. 22.

Federal Electric Products Company, assignee: *See*— Ballou, Richard P.

Feighner, Shirley D., Wayne County, Mich. Locking gas valve. 2,594,141, Apr. 22.

Feldstein, Henry H., Cleveland, and H. R. Kilby, East Cleveland, assignors, by mesne assignments, to H. H. Feldstein, Cleveland, Ohio. Crystallizing apparatus. 2,594,142, Apr. 22.

Felsa S. A., assignee: *See*— Meyer, Friedrich.

Ferrand, Louis, Paris, France. Electrolytic production of aluminum. 2,593,741, Apr. 22.

Fichter, Julius, South Euclid, Ohio. Adjustable ring and thread gauge. 2,594,143, Apr. 22.

Fili, John V., Miami, Fla., assignor to the United States of America as represented by the Secretary of War. Counterpoise. 2,593,427, Apr. 22.

Finch, Leonard E., assignor to West Bend Aluminum Co., West Bend, Wis. French frier. 2,593,549, Apr. 22.

Fischer, Wilbur F., Roselle Park, F. Knoth, Jr., Sayreville, and R. G. Newberg, Roselle Park, N. J., assignors to Standard Oil Development Company. Use of diphenylol propane in esterification and ester products. 2,593,428, Apr. 22.

Fisher, Hardin Y.: *See*— Soreng, Edgar M., Fisher, and Johnson.

Fisher Scientific Company, assignee: *See*— Todd, Floyd.

Fitch, Albert R., assignor to Marcus Breier Sons, Inc., Amsterdam, N. Y. Garment construction. 2,594,259, Apr. 22.

Fixture Hardware Corporation, The, assignee: *See*— Keil, Henry P.

Flakice Corporation, assignee: *See*— Grandia, William M.

Flory, Paul J., Ithaca, N. Y., assignor to Wingfoot Corporation, Akron, Ohio. Reaction products of an N-acyl polyimide of a polycarboxylic acid with a polymer containing hydroxy or amino radicals. 2,594,145, Apr. 22.

Flory, Paul J., Ithaca, N. Y., and F. S. Leutner, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Preparation of aromatic linear polyesters. 2,594,144, Apr. 22.

Fodor, Nicholas, Wilmette, Ill. Multiple unit fuel injection pump. 2,593,550, Apr. 22.

Fodor, Nicholas, Wilmette, Ill. Fuel injection pump. 2,593,551, Apr. 22.

Folkman, Marvin L., Shaker Heights, Ohio. Aerosol dispenser and penetrable cartridge therefor. 2,593,552, Apr. 22.

Food Machinery and Chemical Corporation, assignee: *See*— Haines, George S., and Heindel. Verrinder, Ernest A., and Heard.

Ford, John R., assignee: *See*— Russell, William P.

Ford Motor Company, assignee: *See*— Klemach, Fred A.

Forges et Ateliers de Constructions Electriques de Jeumont, assignee: *See*— Thibaudat, Albert.

Forshay, Edward G., assignee: *See*— Roberts, Rodney E.

Fort Dodge Laboratories, Inc., assignee: *See*— Killinger, Arden H., and Dick.

Foster, John: *See*— Fremlin, John H., and Foster.

Foster Machine Company, assignee: *See*— Lamb, Frank L., and Yefko.

Foster Wheeler Corporation, assignee: *See*— Frisch, Martin.

Foulkes, Christopher H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Gas filled electric discharge device. 2,593,429, Apr. 22.

Fowler, Charles G., Miami, Fla. Holder for drinking glasses. 2,593,868, Apr. 22.

Fowler, Roy E., Watkinsville, Ga. Device for controlling the filling of containers. 2,594,146, Apr. 22.

Fraas, Foster, Riverdale, Md., assignor to the United States of America as represented by the Secretary of the Department of the Interior. Reagent conditioning for electrostatic separation of minerals. 2,593,431, Apr. 22.

Francis, Carleton S., Jr., West Harwich, Mass., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del. Apparatus for producing coated fabrics. 2,593,553, Apr. 22.

Frankenstein, William P., Cincinnati, Ohio. Carton. 2,593,430, Apr. 22.

Freas, Raymond L., Conshohocken, Pa. Automatically operated radio buoy. 2,593,432, Apr. 22.

Freedman, Samuel, San Diego, Calif., and G. F. Bonardi, New York, N. Y. Vacuum tube. 2,594,005, Apr. 22.

Freeman, C. E., Co., Inc., assignee: *See*— Sandora, Manuel A., and Freeman.

Freeman, Cecil E.: *See*— Sandora, Manuel A., and Freeman.

Fremlin, John H., and J. Foster, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Ultrahigh-frequency oscillation generator. 2,593,433, Apr. 22.

Friedheim, Ernst A. H., New York, N. Y. Propylene glycol solution of arsenic medicaments. 2,593,434, Apr. 22.

Friedman, David, Chicago, Ill. Reproducing the human foot or any of the toes thereof by means of a preshaped flexible form impregnated with material capable of setting hard upon the application of moisture. 2,593,742, Apr. 22.

Friedrich, Ed, Inc., assignee: *See*— Pabst, Richard E.

Friend, Albert W., Princeton, N. J., assignor to Radio Corporation of America. Voltage power supply. 2,594,006, Apr. 22.

Frisch, Martin, assignor to Foster Wheeler Corporation, New York, N. Y. Superheater control. 2,593,435, Apr. 22.

Fruth, Hal F., Skokie, Ill. Air purification device. 2,593,869, Apr. 22.

Fry, Benjamin W., Ladue, assignor to National Vendors, Inc., St. Louis, Mo. Magazine structure for article dispensing apparatus. 2,594,147, Apr. 22.

Fuel Charger Corporation, assignee: *See*— Parsons, Ben G.

Furness Withy & Company Limited, assignee: *See*— Fearfield, George F., and Parsons.

Furniss, Loree E.: *See*— Settles, James C., and Furniss.

G. M. Manufacturing Company, assignee: *See*— Kahl, Joseph, and Muller.

Gair, Robert, Company, Inc., assignee: *See*— Blackwell, Preston J.

Galbois, Auguste G., assignor of fifty per cent to M. Belanger, Hollywood, Calif. Vehicle compass. 2,594,148, Apr. 22.

Galvao, Joseph A., New York, N. Y. Electric plug with blades having elements for piercing and clamping insulated cords. 2,593,743, Apr. 22.

Gamson, Bernard W., Chicago, assignor to Great Lakes Carbon Corporation, Morton Grove, Ill. Sulfur recovery. 2,594,149, Apr. 22.

Ganshorn, Henry F., Washington, Ill. Adjustable sight radius device for firearms. 2,593,870, Apr. 22.

Gardere, Henri, assignor to Compagnie Industrielle des Telephones, Paris, France. Two-way signal repeater. 2,594,007, Apr. 22.

Gaydasch, Alexander: *See*— Gleim, William K. T., Gaydasch, and Rosenwald.

Gearon, Edward: *See*— Gearon, John A. and E.

Gearon, John A. and E., Chicago, Ill. Movable lens mechanism for signal lamps. 2,594,150, Apr. 22.

Geisel, Wilhelm, Ludwigshafen-on-the-Rhein, Germany. Purifying gaseous carbon dioxide. 2,594,268, Apr. 22.

Geisel, Wilhelm, Ludwigshafen-on-the-Rhein, Germany. Purification of carbon dioxide. 2,594,269, Apr. 22.

Gem-Dandy, Inc., assignee: *See*— Weatherly, Andrew E.

Gemme, Leon H., assignor to L. Farber Welting Company, Worcester, Mass. Making storm welts. 2,593,871, Apr. 22.

General Aniline & Film Corporation, assignee: *See*— Anspon, Harry D., and Pschorr. Buc, Saul R. Copenhaver, John W. Jones, Giffin D. Kellog, Henry B. Neumann, Fred W., and Williams. Orinik, Michael T. Slifkin, Sam C. Sprung, Joseph A., and Schmidt.

General Electric Company, assignee: *See*— Bell, Locklin S. and Maltby. Biggs, Leonard R. Clack, Basil N. Courtney, Frederick M., and Lemmerman. Dell, Paul A. Lash, James D. Reynolds, Kenneth W. Summerhayes, Harry R., Jr. Willoughby, Anthony H.

General Mills, Inc., assignee: *See*— Harrison, Stuart A. Royal, Celestian L.

General Time Corporation, assignee: *See*— MacLean, John B.

Georg Fischer Aktiengesellschaft, assignee: *See*— Von Zelewsky, Ottomar.

George, Edgar C.: *See*— De Windt, Joseph J., and George.

Geovision Incorporated, assignee: *See*— Roth, Wilfred, and Ohman.

Getz, Arnstead G., Lakewood, Ohio, assignor to The Bishop & Babcock Manufacturing Company. Cellular core for heat exchange units. 2,594,008, Apr. 22.

Gibian, Emil F., East Cleveland, assignor to Thompson Products, Inc., Cleveland, Ohio. Inverted extrusion apparatus. 2,594,009, Apr. 22.

Gibson, Orville E., assignee: *See*— Price, Milton R.

Gillespie, Forest H., Los Angeles, Calif. Woodworking machine with automatically movable cutter-carrying frame. 2,593,744, Apr. 22.

Gillespie, Forest H., Los Angeles, Calif. Drawer front shaping and grooving machine. 2,593,745, Apr. 22.

Gillette Safety Razor Company, assignee: *See*— Coons, Robert J., and Todaro.

Gilliland, William H., assignor to Usco Power Equipment Corp., Birmingham, Ala. Electric rocker switch. 2,593,436, Apr. 22.

Glassen, Charles E., Elmore, Ohio, assignor to W. E. Dunn Mfg. Company, Holland, Mich. Apparatus for feeding concrete into molds. 2,593,665, Apr. 22.

Gleim, William K. T., Orland Park, A. Gaydasch, Brookfield, and R. H. Rosenwald, Western Springs, assignors to Universal Oil Products Company, Chicago, Ill. Production of tetraalkylstilbene quinones and tetraalkoxystilbene quinones. 2,593,746, Apr. 22.

Globe Hoist Company, assignee: *See*— Thompson, Elmer B. Walker, Willard T.

Glusko, Joseph, Johnstown, Pa. Electrically controlled lock for automobile doors. 2,594,151, Apr. 22.

Godden, Thomas E.: *See*— Morris, Edward H., Danvers, and Godden.

Godfrey, Melvin C., Los Angeles, assignor, by mesne assignments, to Narmco, Inc., San Diego, Calif. Fishing reel lock. 2,593,747, Apr. 22.

Goff, C. David, assignee: *See*— Biehl, Charles B.

Goff, David D., assignee: *See*— Biehl, Charles B.

Gohde, Irving W., Chicago, Ill. Fishing reel brake. 2,593,872, Apr. 22.

Goldberg, Jacob M., Denver, Colo. Fishing reel. 2,593,748, Apr. 22.

Goldberg, Jacob M., Denver, Colo. Fishing reel. 2,593,749, Apr. 22.

Goldsmith, Lester M., assignor to The Atlantic Refining Company, Philadelphia, Pa. Pressure-relief apparatus. 2,594,152, Apr. 22.

Goldstein, David: *See*— Hopkins, Robert E., and Goldstein.

Goldstein, David G.: *See*— Hopkins, Robert E., and Goldstein.

Goodbar, Mayo A., A. J. Green, and H. O. Randall, assignors to The National Cash Register Company, Dayton, Ohio. Key lock means for cash register control mechanism. 2,593,666, Apr. 22.

Goodings, Eric P., Chadderton, and D. J. Hadley, Epsom Downs, England, assignors to The Distillers Company Limited, Edinburgh, Scotland. Manufacture of unsaturated aldehydes. 2,593,437, Apr. 22.

Goodpasture, Gordon, assignee: *See*— Stokes, William P.

Goodrich, B. F., Company, The, assignee: *See*— Helms, John R. Trathen, James.

Gora, Henry Z., assignor to The Gora-Lee Corporation, Stratford, Conn. Molding articles. 2,593,438, Apr. 22.

Gora, Henry Z., Stratford, Conn., assignor, by mesne assignments, to Anchor Hocking Glass Corporation, Lancaster, Ohio. Machine and method for manufacturing closures. 2,593,439, Apr. 22.

Gora, Henry Z., assignor to The Gora-Lee Corporation, Stratford, Conn. Method and apparatus for molding plastic articles. 2,593,667, Apr. 22.

Gora, Henry Z., assignor to The Gora-Lee Corporation, Stratford, Conn. Manufacture of composite articles. 2,593,668, Apr. 22.

Gora-Lee Corporation, The, assignee: *See*— Gora, Henry Z.

Gorey, Archie H., assignor to Graflex, Inc., Rochester, N. Y. Shutter leaf driving means for between-the-lens shutters. 2,593,873, Apr. 22.

Graf, Edward H., assignor to Cleveland Steel Conditioner, Inc., Cleveland, Ohio. Producing steel. 2,593,554, Apr. 22.

Graflex, Inc., assignee: *See*— Gorey, Archie H.

Graham, Paul S., Pittsburgh, and H. Kennedy, McKeesport, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Switchboard construction. 2,594,010, Apr. 22.

Grand Rapids Hardware Company, assignee: *See*— Dickinson, Henry R.

Grandia, William M., York Township, York County, Pa., assignor to Flakice Corporation, Brooklyn, N. Y. Ice-making. 2,593,874, Apr. 22.

Granger, Noah, Lake Charles, La. Fishing line hook protector. 2,594,011, Apr. 22.

Great Lakes Carbon Corporation, assignee: *See*— Gamson, Bernard W. Shea, Frederick L., Jr.

Green, Albert J.: *See*— Goodbar, Mayo A., Green and Randall.

Greenly, Kenneth H.: *See*— Cowdrey, Cecil L., and Greenly.

Greenwald, Bertrand W., Pawhuska, and W. B. Hughes, Barnsdall, assignors to Cities Service Oil Company, Bartlesville, Okla. Production of paraformaldehyde. 2,593,669, Apr. 22.

Greer, John J., Warwick Neck, and S. C. Greer, Warwick, R. I. Wrench having pivotable jaws cammed by pivoting handle. 2,594,154, Apr. 22.

Greer, Samuel C.: *See*— Greer, John J., and S. C.

Greffe, Leo, Windsor, Ontario, Canada. Folding basket. 2,594,153, Apr. 22.

Greist Manufacturing Company, The, assignee: *See*— Baehr, Carl G., and Russell.

Greitzer, Meyer, Los Angeles, Calif. Extensible seat for chairs. 2,593,750, Apr. 22.

Griffin, George G., Rome, Ga. Meter box and cover therefor. 2,594,012, Apr. 22.

Grikschelt, Henry W., Detroit, Mich. Switch actuating mechanism. 2,593,670, Apr. 22.

Grinnell Corporation, assignee: *See*— Loepsinger, Albert J.

Grolée, Jean, Paris, France, assignor to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques. Igneous electrolysis cell. 2,593,751, Apr. 22.

Gruel, William W.: *See*— Coon, Allyn J., and Gruel.

Grunwald, Margaret, New York, N. Y. Facial iron and vibrator. 2,593,875, Apr. 22.

Guardite Corporation, assignee: *See*— Heineman, Arnold H.

Guernsey, Glen A., West Springfield, and K. A. Harmon, Longmeadow, assignors to Wico Electric Company, West Springfield, Mass. Brake-holder control mechanism. 2,594,155, Apr. 22.

Gulf Oil Corporation, assignee: *See*— Smith, Herschel G., and Cantrell.

Gump, George F., Walla Walla, Wash. Automatic farm gate. 2,593,876, Apr. 22.

Gurinsky, Harold, assignee: *See*— Kelley, James B., Jr.

Guy, Warren H., Folsom, Pa., assignor to American Viscose Corporation, Wilmington, Del. Apparatus for the treatment of filamentary materials, particularly with liquids. 2,593,555, Apr. 22.

Guyer, Reynolds, assignor to Waldorf Paper Products Company, St. Paul, Minn. One-piece reinforced carton. 2,594,156, Apr. 22.

Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Fabric washing machine. 2,593,752, Apr. 22.

Hackley, Roy C., Oakland, Calif. Portable placer for concrete and the like. 2,593,556, Apr. 22.

Hadley, David J.: *See*—
Goodings, Eric P., and Hadley.

Hadley, H. A., Associates, Inc., assignee: *See*—
Hadley, Harlan A.

Hadley, Harlan A., assignor to H. A. Hadley Associates, Inc., Burlington, Vt. Weighing scale. 2,594,157, Apr. 22.

Hagan Corporation, assignee: *See*—
Markson, Alfred A.

Hagemeyer, Hugh J., Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of carboxyl compounds. 2,593,440, Apr. 22.

Hagen, Clarence R., and C. A. Kallgren, Chicago, Ill., assignors to International Harvester Company. Cotton picker spindle lubricating and moistening system. 2,593,671, Apr. 22.

Hagenlocher, Ernest, Warren, Pa. Flexible coupling. 2,593,877, Apr. 22.

Hager, John I., and E. W. Samford, Montebello, Calif. Key holder. 2,593,441, Apr. 22.

Hahn, Harry, Bronx, assignor to Steelcraft Tool Manufacturing Corp., New York, N. Y. Dual tone reed horn. 2,594,013, Apr. 22.

Haines, George S., South Charleston, and F. D. Heindel, St. Albans, W. Va., assignors to Food Machinery and Chemical Corporation, Wilmington, Del. Detection and quantitative determination of halogenated hydrocarbons in atmosphere. 2,593,878, Apr. 22.

Haines, William T., Mountain Lakes, N. J., and J. B. Newsom, Great Neck, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Crossbar tandem office for step-by-step telephone areas. 2,594,014, Apr. 22.

Hakkarinen, William, Washington, D. C. Electric organ. 2,593,442, Apr. 22.

Hall, Elisha W., Scituate, Mass. Buffing wheel section. 2,593,672, Apr. 22.

Hall, Elisha W., Scituate, Mass. Buffing wheel section. 2,593,673, Apr. 22.

Hall Laboratories, Inc., assignee: *See*—
Albrecht, Kurt.

Halter, Allan C., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Control system for dynamoelectric machine utilizing a magnetically controlled electric valve. 2,594,015, Apr. 22.

Hamacher, William E., St. Louis, Mo. Making barrels. 2,593,753, Apr. 22.

Hamilton, James K., Plainfield, N. J., assignor to Air Reduction Company, Incorporated. Pilot controlled gas pressure regulator. 2,593,557, Apr. 22.

Hamilton Watch Company, assignee: *See*—
Bennett, William O., Jr.
Mentzer, Ralph B.
Sinkler, Arthur B.

Hanf, Wesley A., Austin, Minn. Rotating disk automatic Lotto game. 2,594,159, Apr. 22.

Hanna, Raymond P.: *See*—
Brahmer, Leland F., and Hanna.

Hannameyer, Elwood S., Aptos, Calif. Combination outdoor table and clothesline. 2,594,158, Apr. 22.

Hanovia Chemical and Manufacturing Company, assignee: *See*—
Bird, Lester F.

Hansson, Oscar, Trollhattan, Sweden. Variable pitch propeller with an axially movable hub. 2,594,160, Apr. 22.

Harbaugh, Walter L., Indianapolis, Ind. Fluid control valve. 2,593,558, Apr. 22.

Harmon, Kenneth A.: *See*—
Guernsey, Glen A., and Harmon.

Harnsberger, Robert S., Staunton, Va. Kitchen utensil. 2,593,674, Apr. 22.

Harrison, Arthur E., Princeton, N. J., assignor to The Sperry Corporation. High-frequency tube structure. 2,593,443, Apr. 22.

Harrison, John K. M., Gainesville, Va. Combined opener and pour spout. 2,594,161, Apr. 22.

Harrison, Stuart A., Minneapolis, Minn., assignor to General Mills, Inc. Fatty acrylate-styrene copolymers. 2,593,444, Apr. 22.

Harry, Stephen G., Cody, Wyo. Chicken and hog feeder. 2,593,879, Apr. 22.

Hartford National Bank and Trust Company, trustee, assignee: *See*—
Casimir, Hendrik B. G.
De Weyer, Henricus J.

Hartley, Richard A., North Hollywood, Calif. Magazine type slide projector. 2,594,162, Apr. 22.

Hartwig, Edward C., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Control circuits. 2,594,016, Apr. 22.

Harvey, Robert L.: *See*—
Landon, Vernon D., Harvey, and Keizer.

Hastings, Orville L., and F. H. Vaughn, Long Beach, Calif. Physiotherapy traction table. 2,593,675, Apr. 22.

Hayworth, Curtis B., assignor to Allied Chemical & Dye Corporation, New York, N. Y. Determination of moisture in gases. 2,594,163, Apr. 22.

Heard, Reginald H.: *See*—
Verrinder, Ernest A., and Heard.

Heavilin, Oral R., Klamath Falls, Oreg. Portable earth leveling apparatus. 2,593,880, Apr. 22.

Hedberg, Aldrich R., Cleveland, Ohio, assignor of one-half to M. E. Lorentz. Expander device. 2,594,164, Apr. 22

Heindel, Frank D.: *See*—
Haines, George S., and Heindel.

Heineman, Arnold H., Chicago, Ill., assignor to Guardite Corporation, Wilmington, Del. Vacuum treating process. 2,593,445, Apr. 22.

Heinemann, Heinz, Drexel Hill, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Production of cyclic monoolefins. 2,593,446, Apr. 22.

Heldenbrand, Laurance E., Oklahoma City, Okla. Animal restraining device. 2,593,559, Apr. 22.

Heldenbrand, Laurance E., Oklahoma, City, Okla. Gate latch. 2,593,560, Apr. 22.

Helms, John R., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Semihard rubber composition and making same. 2,594,165, Apr. 22.

Henderson, Delbert H., Shaker Heights, Ohio. Snatch carrier tackle. 2,593,881, Apr. 22.

Henning, Frederick E., Fargo, N. Dak. Earth auger with spirally arranged removable cutting bits. 2,594,261, Apr. 22.

Hennink, Hermanus, Utrecht, Netherlands. Feeding and stacking means for address printing plates. 2,594,166, Apr. 22.

Herbst, Walter A., and W. C. Howell, Jr., Union, N. J., assignors to Standard Oil Development Company. Preparing rich-mixture aviation fuel. 2,593,561, Apr. 22.

Hercik, Lad L., Lakewood, Ohio. Crank driving mechanism. 2,593,882, Apr. 22.

Hercules Powder Company, assignee: *See*—
Borglin, Joseph N.
Rummelsburg, Alfred L.
Weldin, Lewis C.

Herold, Edward W., Kingston, N. J., assignor to Radio Corporation of America. Ultra high-frequency bridge circuits. 2,594,167, Apr. 22.

Herron, Wingo, Charlotte, N. C. Friction grip lug strap support. 2,593,754, Apr. 22.

Hesch, Frederick H., Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation. Method and composition for treating aluminum and aluminum alloys. 2,593,448, Apr. 22.

Hesch, Frederick H., Spokane, Wash., assignor to The Permanente Metals Corporation, Oakland, Calif. Method and composition for treating aluminum and aluminum alloys. 2,593,447, Apr. 22.

Hesch, Frederick H., Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif. Method and composition for treating aluminum and aluminum alloys. 2,593,449, Apr. 22.

Hess, Clem H., assignor of fifty per cent to R. A. Bradley, Conway, Ark. Hygrometer. 2,593,755, Apr. 22.

Hester, Frank A., assignor to Faximile, Inc., New York, N. Y. Electronic synchronizing system. 2,593,450, Apr. 22.

Heyne, William O., Epsom, assignor of one-half to T. J. Brooks (Autos) Limited, Leicester, England. Electrical stop motion for knitting machines. 2,594,168, Apr. 22.

Hibbard, Lloyd J., L. A. Casanova, and R. A. Buchanan, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Vapor-electric device. 2,594,017, Apr. 22.

Hickman, Darold B., North Attleboro, Mass. Slide holder for neckties. 2,594,169, Apr. 22.

Hightower, Ernest L., assignee: *See*—
Cater, Roy M.

Hill, Howard W., Concord, and E. L. Dance, Pittsburg, Calif., assignors to The Dow Chemical Company, Midland, Mich. Dehydrochlorination of polychloroethanes. 2,593,451, Apr. 22.

Hillesheim, Philip N., St. Thomas, Ontario, Canada. Parachute connector link. 2,594,018, Apr. 22.

Hinderer, Hermann: *See*—
Jacobi, Werner, and Hinderer.
Jacobi, Werner, Hinderer, and Katz.

Hitchings, Sidney P., St. Louis County, Mo. Prize dispensing target game device. 2,593,756, Apr. 22.

Hoeber, Barbara O. W., executrix: *See*—
Hoeber, Harold.

Hoeber, Harold, deceased, South Dartmouth, Mass., by B. O. W. Hoeber and W. T. Read, executors, Dartmouth, assignors, by mesne assignments, to Hoosac Mills Corporation, Boston, Mass. Box wall for looms. 2,594,170, Apr. 22.

Hoeppner, Conrad H., Washington, D. C. Scale-of-three electronic switch. 2,593,452. Apr. 22.

Hofacker, Henry J., Worthington, Ohio. Oral applicator. 2,593,757. Apr. 22.

Hoffman, Roscoe C., Detroit, Mich. Automobile body. 2,593,883, Apr. 22.

Hoffmann-La Roche Inc., assignee: *See*—
Duschinsky, Robert.

Holliday, Kenneth H.: *See*—
Clarke, Albert E., North, Holliday, and Clarke.

Holman, Erwin W., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Current supply apparatus. 2,594,019, Apr. 22.

Holmdahl, Arthur C., assignor to Midwest Metal Stamping Co., Kellogg, Iowa. Signal means for basketball baskets. 2,593,758, Apr. 22.

Honeycutt, James V., J. Platis, and J. A. Marchand, Corpus Christi, Tex. Coupling pin. 2,593,453, Apr. 22.

Hoosac Mills Corporation, assignee: *See*—
Hoeber, Harold.

Hopkins, Alfred: *See*—
Drum, Harry S., and Hopkins.

Hopkins, Robert E., and D. Goldstein, assignors to Elgeet Optical Company, Inc., Rochester, N. Y. Wide-angle photographic objective. 2,594,020, Apr. 22.

Hopkins, Robert E., and D. G. Goldstein, assignors to Elgeet Optical Company, Inc., Rochester, N. Y. Wide-angle photographic objective. 2,594,021, Apr. 22.

Horn, Artemus J., Los Angeles, Calif., assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Forced air flow air-heating furnace. 2,593,759, Apr. 22.

Hornfeck, Anthony J., Lyndhurst, Ohio, assignor to Bailey Meter Company. Control system. 2,593,562, Apr. 22.

Horstman, Clifford C.: *See*—
Ellis, Belvin B., Horstman, and Burkhardt.

Horton, William F., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Magnetic amplifier relay circuits. 2,594,022, Apr. 22.

Houdry Process Corporation, assignee: *See*—
Barker, John W.
Evans, James E.
Heinemann, Heinz.
Shimp, Hans G.

Howe Folding Furniture, Inc., assignee: *See*—
Howe, Harold.

Howe, Harold, Rowayton, Conn., assignor to Howe Folding Furniture, Inc., New York, N. Y. Drop leaf support construction for a table or the like. 2,594,262, Apr. 22.

Howell, Maurice R., Monroe, La., assignor to Columbian Carbon Company, New York, N. Y. Cooling hot gaseous suspensions of carbon black. 2,594,171, Apr. 22.

Howell, William C., Jr.: *See*—
Herbst, Walter A., and Howell.

Hubacker, Earl F., Highland Park,, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Infrared ray butter softener. 2,594,023, Apr. 22.

Hudson Motor Car Company, assignee: *See*—
Toncray, Millard H., and Spring.

Huffman, Lloyd S., and A. B. Justin, assignors of one-fourth to D. Jones, Vernon, Tex., and three-fourths to said Huffman. Minnow bucket. 2,594,172, Apr. 22.

Huffman, Max N., Dallas, Tex. Phloroglucinol derivatives. 2,593,563, Apr. 22.

Hughes, William B.: *See*—
Grenwald, Bertrand W., and Hughes.

Hyde, Alex, Santa Barbara, Calif. Foot conditioning apparatus. 2,594,024, Apr. 22.

Hydrocarbon Research, Inc., assignee: *See*—
Wagstaff, James B.

Hyser, Charles L., Bronxville, N. Y., assignor to Orajet Corporation, Wilmington, Del. Hose attachment for faucet outlets and the like. 2,593,454, Apr. 22.

I-T-E Circuit Breaker Company, assignee: *See*—
Van Gilder, Burrows C.
Wood, Joseph D.

Ifield, Richard J., Dural, New South Wales, Australia, assignor to Joseph Lucas, Limited, Birmingham, England. Oil burner nozzle. 2,593,884, Apr. 22.

Illinois Tool Works, assignee: *See*—
Poupitch, Ougljesa J.

Industrial Rayon Corporation, assignee: *See*—
MacLaurin, Robert D., and Israel.

Industrial Research Institute of the University of Chattanooga, assignee: *See*—
Couillette, James H.

Interchemical Corporation, assignee: *See*—
Burrell, Harry, and Clark.
Dolton, Dorothy M., and Smith.

Interior, United States of America as represented by the Secretary of the Department of the, assignee: *See*—
Fraas, Foster.
Newman, Louis L., and Schroeder.

International Cellucotton Products Company, assignee: *See*—
Pitton, Eva V.

International Harvester Company, assignee: *See*—
Bornzin, James H.
Coon, Allyn J., and Gruel.
Hagen, Clarence R., and Kallgren.
Kaupke, Lee H.
Orelind, John R.
Pool, Stuart D.

International Standard Electric Corporation, assignee: *See*—
den Hertog, Martinus.
den Hertog, Martinus, and Berden.
Foulkes, Christopher H.
Fremlin, John H., and Foster.
Pickles, Sidney B., and Watts.
Reeves, Alec H.
Wright, Esmond P. G., and Reynolds.

Iron John, Inc., assignee: *See*—
Deskin, Roy, and Savitz.

Irwin, Ernest R., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Slushing compositions. 2,593,676, Apr. 22.

Israel, William O.: *See*—
MacLaurin, Robert D., and Israel.

Ives, Clifford B., St. Louis County, assignor to Alco Valve Company, University City, Mo. Pilot operated valve. 2,593,564, Apr. 22.

Jacobi, Werner, Erlangen, H. Hinderer, Marloffstein near Erlangen, and H. Katz, Buckenhof near Erlangen, assignors to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electron tube with luminescent shield, especially tuning valve. 2,594,025, Apr. 22.

Jacobi, Werner, Erlangen, and H. Hinderer, Marloffstein near Erlangen, assignors to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany. Electron tube with luminescent shield, especially tuning tubes. 2,594,026, Apr. 22.

Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Door handle mounting. 2,593,677, Apr. 22.

Jakeway, Gerald V., assignor to Keeler Brass Company, Grand Rapids, Mich. Mounting stud for drawer pull handles. 2,594,027, Apr. 22.

James, George S., Woodside, assignor, by mesne assignments, to H. Pensig, N. Paterson, Brooklyn, and G. S. James, Woodside, N. Y. Sanitary waste disposal bin. 2,593,455, Apr. 22.

James, Guy, Yakima, Wash. Portable band saw. 2,593,760. Apr. 22.

James, Harry A., Joplin, Mo. Casting rod. 2,593,885, Apr. 22.

James, Robert M., Buffalo, N. Y. Flexible key form for forming recesses in concrete structures. 2,593,456, Apr. 22.

Jastrzebski, Wincenty, Warsaw, Poland, vested in the Attorney General of the United States. Fluid operated power transmitter. 2,593,457, Apr. 22.

Jenness, Leslie G., assignor to The Trendex Co., Memphis, Tenn. Purifying solid saturated fatty acids containing unsaturated free fatty acids and other soluble impurities. 2,593,458, Apr. 22.

Jensen, Hubert M., Inglewood, and H. K. Bouvier, Los Angeles, assignors, by mesne assignments, to Century Aircraft Co., Inglewood, Calif. Valve. 2,594,173, Apr. 22.

Johansen, Harry C., Michigan City, Ind., assignor to Joy Manufacturing Company. Chuck mechanism. 2,594,028, Apr. 22.

Johnson, Burt P.: *See*—
Potter, Loren D., and Johnson.

Johnson, Charles F., Houston, Tex., assignor to Eastman Oil Well Survey Company, Denver, Colo. Reading device for core orienting equipment. 2,594,029, Apr. 22.

Johnson, Charley H., Tulsa, Okla. Combined wall lamp and shelf. 2,593,886, Apr. 22.

Johnson, Earl B., Freehold, N. J. Automatic heating system for drinking fountains. 2,593,459, Apr. 22.

Johnson, Franklin D., Battle Creek, Mich. Hand brush for tenderizing meat. 2,594,174, Apr. 22.

Johnson, George D.: *See*—
Soreng, Edgar M., Fisher, and Johnson.

Johnson, Roy, Chicago, assignor to American Hospital Supply Corporation, Evanston, Ill. Orthopedic mattress. 2,593,678, Apr. 22.

Johnson Steel & Wire Company, Inc., assignee: *See*—
Clary, Frank A., Jr., and Willis.

Johnson, Wallace C., St. Davids, Pa. Producing metal sheets or plates. 2,593,460, Apr. 22.

Johnstone, Warren W., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Reducing the mercaptan content of petroleum distillates with a hydroperoxide. 2,593,761, Apr. 22.

Jones, Allen R.: *See*—
Smith, John O., Jr., and Jones.

Jones, Cernyw F., Economy, assignor to Perfect Circle Corporation, Hagerstown, Ind. Knurling machine. 2,593,887, Apr. 22.

Jones, D., assignee: *See*—
Huffman, Lloyd S., and Justin.

Jones, Frank B., Pineville, La. Artificial casting lure. 2,593,461, Apr. 22.

Jones, Giffin D., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Production of hydroxyalkyl amides of acrylic acids. 2,593,888, Apr. 22.

Jones, Preston A., Berkeley, Calif. Recessed light fixture with removable light transmitting panel. 2,593,513, Apr. 22.

Jones, Ralph V., Pompano, Fla. Paper holder. 2,593,762, Apr. 22.

Jouguet, Marc, Orsay, assignor to Compagnie Industrielle des Telephones, Paris, France. Connecting device for wave guides. 2,594,031, Apr. 22.

Joy Manufacturing Company, assignee: *See*—
Ball, Charles F.
Johansen, Harry C.
Osgood, Charles F.
Vanderzee, Harry H.
Woolf, James W.

Judd, Edwin G., Vancouver, Wash. Method of and apparatus for washing residues. 2,594,175, Apr. 22.

Justin, Arthur B.: *See*—
Huffman, Lloyd S., and Justin.

Juza, John A., Spencer, Iowa. Bowling ball. 2,593,565, Apr. 22.

Kahl, Joseph, and G. H. Muller; said Muller assignor to G. M. Manufacturing Company, New York, N. Y. Machine for measuring and dispensing variable volumes of liquids. 2,593,889, Apr. 22.

Kaiser Aluminum & Chemical Corporation, assignee: *See*—
Hesch, Frederick H.

Kaiser, John, Jr., Cicero, Ill. Accessory tray for scrub pails. 2,594,176, Apr. 22.

Kallgren, Carl A.: *See*—
Hagen, Clarence R., and Kallgren.

Kalling, Bo M. S., Domnarvet, Sweden. Reducing ores without melting. 2,593,398, Apr. 22.

Kammlade, William G., Jr., assignor of one-half to W. G. Kammlade, Sr., Urbana, Ill. Shearing, cutting, and trimming device. 2,594,177, Apr. 22.

Kammlade, William G., Sr., assignee: *See*—
Kammlade, William G., Jr.

Kamp, Harry F., Cincinnati, Ohio. Method and composition for coloring eggs. 2,593,566, Apr. 22.

Kapitza, Peter L., Moscow, Union of Soviet Socialist Republics. Rectification apparatus. 2,593,763, Apr. 22.

Kaplan, Arthur M., Hyattsville, Md., and M. Solowey, Washington, D. C., assignors to the United States of America as represented by the Secretary of Agriculture. Treating egg whites. 2,593,462, Apr. 22.

Karr, Philip L., Chicago, Ill., assignor to Excel Movie Products, Inc. Actuating apparatus for sound system. 2,594,178, Apr. 22.

Katz, Helmut: *See*—
Jacobi, Werner, Hinderer, and Katz.

Kauck, Edward A.: *See*—
Diesslin, Albert R., Kauck, and Simons.

Kaunits, Fred E., Jr., Bay City, Mich. Detachable hoisting apparatus. 2,593,764, Apr. 22.

Kaupke, Lee H., Stockton, Calif., assignor to International Harvester Company. Implement attaching structure. 2,593,679, Apr. 22.

Keck, Tyson O., Kokomo, Ind. Clothes rack attachment for securement to beds. 2,593,567, Apr. 22.

Keefer, Leonard O., Spokane, Wash. Mechanical control for water distributor. 2,593,765, Apr. 22.

Keefer, Lorraine L., El Dorado, Kans. Garment. 2,594,032, Apr. 22.

Keeler Brass Company, assignee: *See*—
Jakeway, Gerald V.

Keil, Henry P., assignor to The Fixture Hardware Corporation, Chicago, Ill. Duplicating apparatus. 2,594,179, Apr. 22.

Keizer, Eugene O.: *See*—
Landon, Vernon D., Harvey, and Keizer.

Kelbel, Donald W., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Transmission. 2,593,568, Apr. 22.

Kelley, C. M., assignee: *See*—
Kelley, James B., Jr.

Kelly, James B., Jr., assignor of one-third to H. Gurinsky and nine-thirtieths to C. M. Kelly, San Antonio, Tex., one-thirtieth to F. McGown and F. McGown, Jr., jointly. Frame structure for hay balers. 2,593,569, Apr. 22.

Kellog, Henry B., Weehawken, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. 3,3'-bis-(1-substituted - 2,5 - diketo-7-methylpyrimidopyrazoles). 2,593,890, Apr. 22.

Kellogg, M. W., Co., The, assignee: *See*—
Stearns, Walter V.

Kelly, Gerald W.: *See*—
Stoddard, William E., and Kelly.

Kemp, Jack V. L., Tebworth, Leighton Buzzard, assignor to Craig Kemp Limited, London, England. Automatic gate control. 2,594,033, Apr. 22.

Kennedy, Heyward: *See*—
Graham, Paul S., and Kennedy.

Kenney, Cyril E., Portman Square, London, England. Construction of paneled walls for buildings. 2,593,891, Apr. 22.

Keystone View Company, assignee: *See*—
Alexander, Harry S.

Kilby, Harry R.: *See*—
Feldstein, Henry H., and Kilby.

Killinger, Arden H., and J. R. Dick, assignors to Fort Dodge Laboratories, Inc., Fort Dodge, Iowa. Vaccine and manufacturing the same. 2,594,180, Apr. 22.

Kimball, Charles N., Johnson County, Kans., W. R. Lewis, Clay County, Mo., and H. A. Strecker, Wyandotte County, Kans., assignors to C. J. Patterson Company, Kansas City, Mo. Apparatus for testing materials. 2,593,766, Apr. 22.

Kindel, Elmore A., Wyoming, Ohio. Earpiece. 2,593,892, Apr. 22.

King, Bernard H., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Primary cell. 2,593,893, Apr. 22.

King, Keith T., Colchester, Ill. Collapsible motor scooter. 2,594,034, Apr. 22.

King, William D., Buffalo, and A. J. Winchester, Jr., Lockport, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Reel control system. 2,594,035, Apr. 22.

Kinzer, John P., Ridgefield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency stabilized microwave oscillator. 2,593,463, Apr. 22.

Kirby, Wilfred: *See*—
Nasmith, John I., and Kirby.

Kirkpatrick, William O., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis. Hasp. 2,593,570, Apr. 22.

Kiwad, Isador, Westwood, N. J. Toe protector. 2,593,767, Apr. 22.

Klemach, Fred A., Ann Arbor, assignor to Ford Motor Company, Dearborn, Mich. Forming sheet metal with low-melting dies. 2,593,571, Apr. 22.

Kliegl Bros. Universal Electric Stage Lighting Co., Inc., assignee: *See*—
Kliegl, Herbert A., and J.

Kliegl, Herbert A., Forest Hills, and J. Kliegl, Queens Village, assignors to Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y. Selector switch. 2,594,181, Apr. 22.

Kliegl, Joseph: *See*—
Kliegl, Herbert A. and J.

Kline, Bernard L.: *See*—
Roddin, Daniel P., and Kline.

Klopfenstein, Gerald J., assignor to Bowser, Inc., Fort Wayne, Ind. Proportioner resetting mechanism. 2,593,894, Apr. 22.

Knapp, Andrew E., Marion, Ohio, assignor to Betz Corporation, Hammond, Ind. Refrigerator having freezer and storage compartments with separate controls. 2,594,036, Apr. 22.

Kness, Austin E., Albia, Iowa. Animal trap. 2,594,182, Apr. 22.

Knoth, Frederick, Jr.: *See*—
Fischer, Wilbur F., Knoth, and Newberg.

Knudsen, Knud J., assignor to The Lewis Engineering Company, Naugatuck, Conn. Indicating the maximum of a plurality of conditions. 2,593,897, Apr. 22.

Knudsen, Knud J., assignor to The Lewis Engineering Company, Naugatuck, Conn. Responding to an extreme of a plurality of conditions. 2,593,898, Apr. 22.

Kohl, William R., Glenview, Ill. Shipping container. 2,593,895, Apr. 22.

Kohn, Ellard G., Miami Beach, Fla., now by change of name E. G. Conn. Heating kettle. 2,593,768, Apr. 22.

Kollontay, Eryk A., Weinbach, Saint Wolfgang, Austria. Toilet kit. 2,593,896, Apr. 22.

Kollsman Instrument Corporation, assignee: *See*—
Andresen, John H., Jr.

Kollsman, Paul, New York, N. Y. Engine fuel injection. 2,593,769, Apr. 22.

Kollsman, Paul, New York, N. Y. Device for carbonating and dispensing beverages. 2,593,770, Apr. 22.

Koppers Company, Inc., assignee: *See*—
D'Alelio, Gaetano F.

Kosten, Johannes, *See*—
Wendt, Arnold R., and Kosten.

Krahulec, Fred, Skokie, assignor to A. C. Nielson Company, Chicago, Ill. Coin or token discharge mechanism for mailable record magazines. 2,593,572, Apr. 22.

Krause, Jack H., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Sweetening hydrocarbon oils. 2,593,464, Apr. 22.

Krechesfky, Sam, assignee: *See*—
Roberts, Rodney E.

Kriegel, Bernard: *See*—
Baker, Reuben C., and Kriegel.

Krohn, Ivar T.: *See*—
Shapiro, Hyman, and Krohn.

Krohn, Ivar T., Royal Oak, and H. Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y. Manufacture of alkyllead compounds with calcium-lead alloys. 2,594,183, Apr. 22.

Krug, Louis G., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill. Seal. 2,593,899, Apr. 22.

Kuehlthau, John L., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Armature coil lead arrangement for reducing coronas. 2,593,900, Apr. 22.

Kulbersh, Nathan, West Haven, assignor to Sargent & Company, New Haven, Conn. Door latch. 2,193,573, Apr. 22.

La Crosse, Arthur E., Springfield, Ill. Hair trimming attachment for shears. 2,593,574, Apr. 22.

Ladd, Elbert C., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Dihalo-alkenyl alkenoates. 2,594,184, Apr. 22.

Laguesse, Eugene: *See*—
Tixhon, Marie T., and Laguesse.

Laidig, Alfred H., Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Apparatus for the manufacture of glass articles. 2,593,771, Apr. 22.

Lamb, Frank L., and E. Yefko, assignors to Foster Machine Company, Westfield, Mass. Winding machine. 2,593,680, Apr. 22.

Lambdin, William L., Jr.: *See*—
Albrecht, Fritz, Davison, and Lambdin.

Lance, Chester L., Dallas, Tex. Printing chase. 2,593,575, Apr. 22.

Landau, Frans: *See*—
Carlsson, Johan E., Landau, and Törnros.

Landon, Vernon D., R. L. Harvey, and E. O. Keizer, Princeton, N. J., assignors to Radio Corporation of America. Ultrahigh-frequency filter. 2,594,037, Apr. 22.

Larsson, Gustaf H., Alsten, near Stockholm, assignor to See Fabriks Aktiebolag, Sandviken, Sweden. Mandrel position adjustment means for pilgrim rolling mills. 2,593,772, Apr. 22.

Lash, James D., Cleveland Heights, Ohio, assignor to General Electric Company. Signal light. 2,593,901, Apr. 22.

Lauterwasser, Robert C., Ludington, Mich. Fishing lure. 2,594,038, Apr. 22.

Le Clair, Camille C. S., Acton, London, assignor to Tecalemit Limited, Brentford, England. Apparatus for dispensing lubricant to the wheels or rollers of chain conveyers. 2,594,039, Apr. 22.

Le Clair, Camille C. S., London, assignor to Tecalemit Limited, Brentford, England. Nipple or lubricant receiving device. 2,594,040, Apr. 22.

Le Clair, Camille C. S., Acton, London, England. Apparatus to lubricate rolling elements of chain conveyers or rolling stock. 2,594,041, Apr. 22.

Lee, Charles A.: *See*—
Saunders, Harold E., Lee, Marvinney, and Brownell.

Lee, John G., Farmington, assignor to United Aircraft Corporation, East Hartford, Conn. Boundary layer energizing means for annular diffusers. 2,594,042, Apr. 22.

Lee, Richard A., West Englewood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Compensator. 2,593,902, Apr. 22.

Leeds and Northrup Company, assignee: *See*—
Davis, Elwood T., and Clark.
Williams, Albert J., Jr.

Lefever, Charles F., assignor to Daisy Manufacturing Company, Plymouth, Mich. Loading mechanism for pneumatic guns. 2,594,185, Apr. 22.

Legorreta, Luis G., E. Posanda, and F. Camarena, assignors to Electrol S. A., Mexico City, Mexico. Fluorescent lamp circuit. 2,593,576, Apr. 22.

Leitz, Ernst, G. m. b. H., assignee: *See*—
Broschke, Heinrich.
Ludewig, Max.

Lemmerman, Harold H. P.: *See*—
Courtney, Frederick M., and Lemmerman.

Lenehan, Bernard E.: *See*—
Young, Douglass A., Lunas, and Lenehan.

Lesoine, Clarence A.: *See*—
Van Vliet, Robert E., and Lesoine.

Le Tourneau, R. G., Inc., assignee: *See*—
Le Tourneau, Robert G.

Le Tourneau, Robert G., Peoria, Ill., assignor to R. G. Le Tourneau, Inc., Stockton, Calif. Mobile form and transport for cast structures. 2,593,465, Apr. 22.

Le Tourneau, Robert G., Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill. Shaving gears. 2,594,186, Apr. 22.

Leutner, Frederick S.: *See*—
Flory, Paul J., and Leutner.

Levitt, Alton B., St. Louis, Mo. Portable holder for flower baskets or containers. 2,594,187, Apr. 22.

Levkoff, David, Great Neck, N. Y. Folding box or carton. 2,593,773, Apr. 22.

Lewis, Dan, assignor to Consolidated Products Company, Danville, Ill. Poultry feeding. 2,593,577, Apr. 22.

Lewis Engineering Company, The, assignee: *See*—
Knudsen, Knud J.

Lewis, William R.: *See*—
Kimball, Charles N., Lewis, and Strecker.

Leydon, Arthur J., Waltham, assignor to Dewey and Almy Chemical Company, North Cambridge, Mass. Making freely flowable composition of two rubbers. 2,593,681, Apr. 22.

Libbey-Owens-Ford Glass Company, assignee: *See*—
Beckham, Robert R.

Liberg, Edwin R., Brooklyn, N. Y., assignor to Radio Corporation of America. Relay counting circuit. 2,593,578, Apr. 22.

Liberman, Arie, Chicago, Ill. Selective switching system. 2,594,043, Apr. 22.

Lichaw, Milton, Brooklyn, N. Y. Portable radio receiving set. 2,593,579, Apr. 22.

Loder, Donald J., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Solvent extraction of oils with dimethylammonium dimethylcarbamate. 2,594,044, Apr. 22.

Loepsinger, Albert J., assignor to Grinnell Corporation, Providence, R. I. Atomizer. 2,594,045, Apr. 22.

Loevenich, Joseph, New York, N. Y. Spring coin holder. 2,593,580, Apr. 22.

Long, Richard H., and E. E. Prather, assignors to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,593,581, Apr. 22.

Longenecker, Levi S., Mount Lebanon, Pa. Furnace tilt lift door and seal. 2,594,188, Apr. 22.

Lontz, John F., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Coagulating aqueous dispersions of polytetrafluoroethylene. 2,593,583, Apr. 22.

Lontz, John F., Nutley, and L. E. Robb, Rutherford, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing tetrafluoroethylene polymer compositions. 2,593,582, Apr. 22.

Loomis, Paul A., Philadelphia, Pa. Pressing device for garrison cap covers and the like. 2,593,682, Apr. 22.

Loredo, Miguel A., Habana, Cuba. Apparatus for no-effort inhalation anesthesia. 2,593,774, Apr. 22.

Lorentz, Melvin E., assignee: *See*—
Hedberg, Aldrich R.

Lozano y Garcia de V., Ramon, Cordoba, Spain. Hydraulic elevator or jack. 2,593,903, Apr. 22.

Lucas, Joseph, Limited, assignee: *See*—
Clarke, Albert E., North, Holliday, and Clarke.

Lucas, Joseph, Limited, assignee: *See*—
Ifield, Richard J.

Ludewig, Max, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Image-inverting optical system. 2,593,904, Apr. 22.

Lukaszewicz, Felix F.: *See*—
Brown, Myron J., and Lukaszewicz.

Lunas, Lawrence J.: *See*—
Young, Douglass A., Lunas, and Lenehan.

Lux Clock Manufacturing Company, Inc., The, assignee: *See*—
Lux, Frederick.

Lux, Frederick, Middlebury, assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn. Timer. 2,593,905, Apr. 22.

Lynch, Charles S., Plainfield, N. J., assignor to Standard Oil Development Company. Reforming hydrocarbon gases in the presence of a magnesia catalyst. 2,593,584, Apr. 22.

Lyons, Edmund A., Brooklyn, N. Y. Venetian blind. 2,593,684, Apr. 22.

Lyons, George W., North Guilford, Conn. Prefabricated stair. 2,593,683, Apr. 22.

Maag, John R., San Francisco, Calif. Bumper. 2,593,586, Apr. 22.

Maar, Zvonko, Rome, Italy. Mechanism for utilizing secondary movements arising on running vehicles. 2,593,467, Apr. 22.

Maar, Zvonko, Rome, Italy. Timepiece winding device. 2,593,685, Apr. 22.

Maar, Zvonko, Zurich, Switzerland. Self-winding timepiece for vehicles. 2,593,686, Apr. 22.

MacFarland, Charles H., assignor to Scott & Fetzer Company, Cleveland, Ohio. Vacuum cleaner nozzle brush attachment. 2,594,189, Apr. 22.

MacLaurin, Robert D., and W. O. Israel, Lakewood, assignors to Industrial Rayon Corporation, Cleveland, Ohio. Viscose spinning solution. 2,593,466, Apr. 22.

MacLean, John B., Peru, Ill., assignor to General Time Corporation, New York, N. Y. Fuse. 2,593,775, Apr. 22.

Madgwick, Frederick K., Upper Darby, and J. A. Silvaggio, Philadelphia, Pa. Web feeding means for cutting machines. 2,593,585, Apr. 22.

Mahlmeister, Louis J., assignor to The Sheffield Corporation, Dayton, Ohio. Gauging device for checking axis relationship. 2,594,046, Apr. 22.

Mallory, P. R., & Co., Inc., assignee: *See*—
King, Bernard H.
Poehlmann, George.

Maltby, Truman W.: *See*—
Bell, Locklin S., and Maltby.

Marchand, Joseph A.: *See*—
Honeycutt, James V., Platis, and Marchand.

Marcus, Nathan, Union City, N. J. Distant reading liquid reservoir gauge. 2,593,587, Apr. 22.

Margala, Charles E., Youngstown, Ohio. Dump body tilting mechanism. 2,593,776, Apr. 22.

Markson, Alfred A., Mount Lebanon, assignor, by mesne assignments, to Hagan Corporation, Pittsburgh, Pa. Force measuring device of the diaphragm type provided with a valve for automatically applying a balancing pressure to the diaphragm. 2,593,906, Apr. 22.

Marsh, Oliver A., Quincy, Ill. Grave marker. 2,593,468, Apr. 22.

Marshall, Frank M., Green Bay, Wis. Safety friction toolholder. 2,593,907, Apr. 22.

Martin, Glenn L., Company, The, assignee: *See*—
Albrecht, Fritz, Davison, and Lambdin.

Martinez, John M., assignor to Olin Industries, Inc., New Haven, Conn. Cathode. 2,594,047, Apr. 22.

Marvinney, Edward A. G.: *See*—
Saunders, Harold E., Lee, Marvinney, and Brownell.

Mason, Arthur C., Wayne Township, Passaic County, N. J. Bead blank forming method and machine. 2,593,469, Apr. 22.

Masson, Emile P., Saint-Maurice, France. Chronographic arrangement for electric stations. 2,594,048, Apr. 22.

Master Builders Company, The, assignee: *See*—
Scripture, Edward W., Jr.

Mastney, Edward J., Berwyn, assignor to Oak Mfg. Co., Chicago, Ill. Electrical apparatus. 2,594,190, Apr. 22.

Mathey, Frank H., Tulsa, Okla. Pipe-cutting apparatus. 2,594,191, Apr. 22.

Matignon, Edmond C., assignee: *See*—
Branson, Nathan E.

Matos, Nicanor, New York, N. Y. Bathtub curtain frame. 2,594,049, Apr. 22.

Matthews, Charles, and H. M. Wenger, East Earl, assignors to Terre Hill Machine Co. Inc., Terre Hill, Pa. Conveyer drive. 2,593,470, Apr. 22.

Matthiesen, George H., Chicago, Ill. Clasp type closure for envelopes. 2,594,050, Apr. 22.

Mayer, Bruno, New York, N. Y. Foldable serving table. 2,593,471, Apr. 22.

Maytag Company, The, assignee: *See*—
Faust, Stewart W.

McArthur, Donald A., assignor to The Wean Engineering Co., Inc., Warren, Ohio. Strip lifting device for pickling tanks. 2,594,192, Apr. 22.

McBee Company, The, assignee: *See*—
Nolan, Merrill C.

McClelland, Lewis W., Topeka, Kans. Device for milling keyway slots. 2,593,777, Apr. 22.

McCormack, Ralph H.: *See*—
Bolley, Don S., and McCormack.

McDonald, William E., Salt Lake City, Utah. Workstand. 2,593,588, Apr. 22.

McFarland, Arley, Augusta, W. H. Reetz, Wichita, and W. E. Burbank, El Dorado, Kans. Walking support. 2,594,051, Apr. 22.

McFerron, Alfred V., Rocky River, and H. D. Myers, Cleveland Heights, assignors to McFerron-Myers Products Company, Rocky River, Ohio. Three-way clamping fixture. 2,594,052, Apr. 22.

McFerron-Myers Products Company, assignee: *See*—
McFerron, Alfred V., and Myers.

McGinn, James B., Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del. Steel shipping package for section beams. 2,593,472, Apr. 22.

McGinnis, Robert F., Cedar Rapids, Iowa. Carton. 2,593,778, Apr. 22.

McGown, Floyd, assignee: *See*—
Kelley, James B., Jr.

McGown, Floyd, Jr., assignee: *See*—
Kelley, James B., Jr.

McGrath, Charles H., New York, and R. L. Webster, Elmhurst, N. Y. Knockdown box and crate. 2,593,779, Apr. 22.

McIntosh, Harold J., assignor to Automatic Equipment Manufacturing Company, Pender, Nebr. Dump rake. 2,593,780, Apr. 22.

McIntyre, John C., Ticonderoga, N. Y. Cording attachment for sewing machines. 2,593,589, Apr. 22.

McKewen, George E., Baltimore, Md. Child's chair protector with bib feature. 2,594,053, Apr. 22.

McKnight, John R., Jr., United States Navy, San Diego, Calif. Electrically operated liquid level indicator. 2,593,473, Apr. 22.

McNabb, Walter J., and W. R. Cochrane, Delhi, Calif. Crib actuating mechanism. 2,593,590, Apr. 22.

McNamara, Patrick V., and R. E. Nicholson, Detroit, Mich. Garbage disposal apparatus. 2,594,054, Apr. 22.

Meier, Allen S., Xenia, and P. D. Coleman, Dayton, Ohio, assignors to the United States of America as represented by the Secretary of War. Antenna matching section. 2,593,474, Apr. 22.

Meis, Alfred L., St. Paul, Minn. Tree protector band. 2,593,781, Apr. 22.

Mendes, Bram, New Rochelle, N. Y. Drafting instrument. 2,594,193, Apr. 22.

Menkin, Benjamin D., Los Angeles, and F. M. Darling, Pasadena, Calif. Adjustable automatic fluid dispenser. 2,593,591, Apr. 22.

Mentzer, Ralph B., assignor to Hamilton Watch Company, Lancaster, Pa. Work holder orienting device. 2,593,687, Apr. 22.

Merck & Co., Inc., assignee: *See*—
Wolf, Frank J.

Metzger, Charles S., Morris Plains, assignor to Bendix Aviation Corporation, Teterboro, N. J. Oil seal for engine starters. 2,594,194, Apr. 22.

Meyer, Friedrich, assignor to Felsa S. A., Grenchen, Switzerland. Timepiece automatic winding mechanism. 2,593,688, Apr. 22.

Midwest Metal Stamping Co., assignee: *See*—
Holmdahl, Arthur C.

Miller, Coleman J., Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Antenna coupling system. 2,594,055, Apr. 22.

Miller, Herman J.: *See*—
Bothe, Werner H., and Miller.

Miller, Myron G., Springs, Pa. Driving mechanism for mining machines. 2,594,195, Apr. 22.

Miller, Richard D., Pasadena, Calif. Grill. 2,593,592, Apr. 22.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Diesslin, Albert R., Kauck, and Simons.

Minor, James B., Sr., Fairmont, W. Va. Tool for handling substantially cylindrical articles. 2,593,782, Apr. 22.

Missouri Automatic Control Corporation, assignee: *See*—
Yelda, John O.

Mitchell, Don G., Summit, N. J., assignor to Sylvania Electric Products, Inc. Lamp container. 2,593,689, Apr. 22.

Mitchell, Jesse C., Seven Mile, Ohio. Fishing rod holder. 2,593,783, Apr. 22.

Moledsky, Sydney, Brooklyn, N. Y. Burglar alarm for vehicles and the like. 2,594,196, Apr. 22.

Monroe Auto Equipment Company, assignee: *See*—
Stoner, Frank H.

Monsanto Chemical Company, assignee: *See*—
Durgin, Charles B.
Park, Harold F.

Monteverde, Armando P., Caracas, Venezuela. Automobile bumper attachable rack. 2,593,908, Apr. 22.

Montopoli, George J.: *See*—
Clark, James D., and Montopoli.

Moore, Alvan A., Corpus Christi, Tex. Portable support for rotary and working platforms. 2,594,197, Apr. 22.

Moreland, Henry W., Camden, Ark. Canopy structure for attachment to trays. 2,593,909, Apr. 22.

Moreland, Stephen T.: *See*—
Dahl, Harry, and Moreland.

Morgenstern, David M., assignor to Nelmor Corporation, Cleveland, Ohio. Reversible rearview mirror assembly. 2,594,056, Apr. 22.

Morris, Edward H., Ashtead, E. Danvers, Gloucester, and T. E. Godden, Cheltenham, assignors to Rotol Limited, Gloucester, England. Variable pitch reversible propeller. 2,593,910, Apr. 22.

Motley, Lewis, London, England. Turret gun mounting. 2,594,198, Apr. 22.

Motley, Lewis, Much Wenlock, England. Apparatus for projecting rounds of ammunition. 2,594,199, Apr. 22.

Motor Products Corporation, assignee: *See*—
Dupuis, Arthur G.

Motorola, Inc., assignee: *See*—
Nieter, Temple.

Muehling, Anthony A., Detroit, Mich. Universal chuck vice. 2,594,057, Apr. 22.

Mueller Co., assignee: *See*—
Bowan, Walter J., and Tratzik.

Müller, Beat, Zurich, Switzerland. Removable partial denture. 2,594,200, Apr. 22.

Muller, George H.: *See*—
Kahl, Joseph, and Muller.

Munster, Allen C., assignor to Philco Corporation, Philadelphia, Pa. Automatic frequency control system. 2,594,263, Apr. 22.

Murray Corporation of America, The, assignee: *See*—
Haberstump, Alfred H.

Myers, Harold D.: *See*—
McFerron, Alfred V., and Myers.

Myhr, Harold G., Pacific Grove, Calif. Roller support for sliding doors. 2,594,058, Apr. 22.

N. V. Optische Industrie "De Oude Delft," assignee: *See*—
Bouwers, Albert.

Nagel, George W., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Flame control apparatus. 2,594,059, Apr. 22.

Napier, D., & Son Limited, assignee: *See*—
Chamberlin, Reginald H. D., Wynne, and Skellern.
Cowdrey, Cecil L., and Greenly.

Narmco, Inc., assignee: *See*—
Godfrey, Melvin C.

Nasmith, John I., and W. Kirby, assignors to Vickers-Armstrongs Limited, London, England. Wire stitching machine. 2,594,201, Apr. 22.

National Cash Register Company, The, assignee: *See*—
Goodbar, Mayo A., Green, and Randall.

National Lead Company, assignee: *See*—
Bolley, Don S., and McCormack.

National Pneumatic Co., Inc., assignee: *See*—
Vander Veer, John H.

National Vendors, Inc., assignee: *See*—
Fry, Benjamin W.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Washburn, Clayton A.

Necchi, Richard A., Hingham, Mass. Wheel rotator. 2,594,202, Apr. 22.

Neilsen, Hildaur L., Metuchen, N. J., assignor to Speed Products Company, Inc., New York, N. Y. Telephone index. 2,593,475, Apr. 22.

Nelmor Corporation, assignee: *See*—
Morgenstern, David M.

Nelson, Arthur L., Rockford, Ill. Artificial fish bait. 2,593,476, Apr. 22.

Nemeth, Steffen P., Chicago, Ill. Motor drive for bicycles. 2,594,060, Apr. 22.

Neugass, Edwin A., assignee: *See*—
Shlenker, Charles N.

Neumann, Fred W., Nazareth, and W. W. Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Diazotypes containing a condensation product of dicyandiamide with formaldehyde and a salt of ammonia or an aromatic amine. 2,593,911, Apr. 22.

Newberg, Raymond G.: *See*—
Fischer, Wilbur F., Knoth, and Newberg.

Newman, Ferris E., New Haven, Ind., assignor to United States Rubber Company, New York, N. Y. Plating barrel. 2,594,061, Apr. 22.

Newman, Louis L., Washington, D. C., and W. C. Schroeder, Clinton, Md., assignors to the United States of America as represented by the Secretary of the Interior. Underground gasification of coal. 2,593,477, Apr. 22.

Newsom, James B.: *See*—
Haines, William T., and Newsom.

Newton, Russell B., Danville, Va., assignor, by mesne assignments, to Dan River Mills, Incorporated. Drawing frame assembly. 2,593,478, Apr. 22.

Nicholson, Roy E.: *See*—
McNamara, Patrick V., and Nicholson.

Niederhauser, Alfred, Basel, Switzerland. Lifting jack. 2,594,270, Apr. 22.

Nielsen, A. C., Company, assignee: *See*—
Krahulec, Fred.
Nielsen, Arthur C.

Nielsen, Arthur C., Winnetka, assignor to A. C. Nielsen Company, Chicago, Ill. Mailable magazine type recorder with coin release mechanism. 2,593,593, Apr. 22.

Niermeyer, Karel A., Leeuwarden, Netherlands. Magazine type hot-air stove for burning solid fuel. 2,593,690, Apr. 22.

Nieter, Temple, Evanston, assignor to Motorola, Inc., Chicago, Ill. Electrical apparatus using metalized circuits and components therefor. 2,593,479, Apr. 22.

Nolan, Merrill C., Washington, D. C., assignor to The McBee Company, Athens, Ohio. Kit for sorting cards. 2,593,594, Apr. 22.

Nordberg Manufacturing Co., assignee: *See*—
Shafter, Ruland R.

Nordquist, Ronald E. J., Maplewood, N. J., assignor to American Can Company, New York, N. Y. Feeding device for pliable sheet material. 2,593,480, Apr. 22.

Norman, Edward A., Jr., assignor to Norman Products Company, Columbus, Ohio. Oil-fired conversion burner. 2,594,062, Apr. 22.

Norman, Horace M., Skokie, assignor to Stewart-Warner Corporation, Chicago, Ill. Dynamoelectric machine balanced rotor. 2,594,203, Apr. 22.

Norman, Joseph T., Huntington Mills, Pa. Heating system. 2,594,063, Apr. 22.

Norman Products Company, assignee: *See*—
Norman, Edward A., Jr.

North, Allan K.: *See*—
Clarke, Albert E., North, Holliday, and Clarke.

Nowak, Alois K., Evanston, Ill. Actuating means for forging presses. 2,594,204, Apr. 22.

Nyberg, Curt E., Chicago, Ill. Flashlight structure. 2,593,784, Apr. 22.

Nye, Edward M., Elysburg, and A. Poisson, Sunbury, Pa. Combined aircraft and automobile. 2,593,785, Apr. 22.

Oak Mfg. Co., assignee: *See*—
Albrecht, Albert W.
Mastney, Edward J.
Ten Cate, Arthur C.

Offen, Bernard, Chicago, Ill. Apparatus for chilling webs. 2,593,595, Apr. 22.

Ohman, John: *See*—
Roth, Wilfred, and Ohman.

O'Leary, Charles M., Los Angeles, Calif. Power-transmitting system for slush pumps or the like. 2,594,064, Apr. 22.

Olin Industries, Inc., assignee: *See*—
Martinez, John M.
O'Neill, John J., Jr., and Reichardt.

Olson, George V., La Crosse, Wis. Circular saw guard. 2,593,596, Apr. 22.

O'Neill, George, St. Clair Shores, Mich. Automobile roof sleeping enclosure. 2,594,065, Apr. 22.

O'Neill, John J., Jr., Roxana, and E. P. Reichardt, Alton, assignors to Olin Industries, Inc., East Alton, Ill. Regenerated cellulose pellets. 2,593,786, Apr. 22.

Onsrud Machine Works, Inc., assignee: *See*—
Onsrud, Rudolph F.

Onsrud, Rudolph F., assignor to Onsrud Machine Works, Inc., Chicago, Ill. Automatic gluing machine. 2,593,691, Apr. 22.

Orajet Corporation, assignee: *See*—
Hyser, Charles L.

Orelind, John R., Wilmette, Ill., assignor to International Harvester Company. Implement attaching structure for tractors. 2,593,692, Apr. 22.

Orinik, Michael T., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Photographic film containing hardened gelatin. 2,593,912, Apr. 22.

Oscher, Nathan A., Brooklyn, N. Y. Adjustable clip support for toothbrushes. 2,593,913, Apr. 22.

Osgood, Charles F., Franklin, Pa., assignor to Joy Manufacturing Company. Mine shaft mucking apparatus. 2,593,693, Apr. 22.

Over, Raymond E., Oak Park, assignor to M. H. Detrick Company, Chicago, Ill. Port chamber wall construction with deposit retaining ledge for open hearth furnaces. 2,593,481, Apr. 22.

Owens-Corning Fiberglas Corporation, assignee: *See*—
Waggoner, Jack H.

Pabst, Richard E., assignor to Ed Friedrich, Inc., San Antonio, Tex. Two-decker dairy self-service refrigerator. 2,594,066, Apr. 22.

Paine, Louis A.: *See*—
Dorsam, William J., Paine, and Road.

Palitto, John C., Akron, Ohio. Analytical rhombus. 2,593,914, Apr. 22.

Palmer, Harold S., Keota, Iowa. Milking plant. 2,593,597, Apr. 22.

Panoussiadis, Nicholas J.: *See*—
Vidalis, Peter G., and Panoussiadis.

Paoli, Stephen A., Rockford, Ill. Cleaning shrimp. 2,594,205, Apr. 22.

Park, Harold F., East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Mass polymerization of styrene at 285° C. 2,593,399, Apr. 22.

Parker Appliance Company, The, assignee: *See*—
Davies, Robert H.

Parker, Earl E., Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Stabilization of polymerizable unsaturated dicarboxylic acid polyesters and mixtures thereof with vinylic monomers. 2,593,787, Apr. 22.

Parsons, Ben G., Grosse Pointe, assignor to Fuel Charger Corporation, Detroit, Mich. Fuel pump. 2,593,788, Apr. 22.

Parsons, Sydney: *See*—
Fearfield, George F., and Parsons.

Pascoo, Alex, New York, N. Y. Smoking pipe cleaner. 2,593,598, Apr. 22.

Patch, Anthony P., Detroit, assignor, by mesne assignments, to Dri-Flo Manufacturing Co., Hazel Park, Mich. Fountain pen with porous writing nib and reservoir filled with absorbent material. 2,593,599, Apr. 22.

Paterson, Nat, assignee: *See*—
James, George S.

Patterson, C. J., Company, assignee: *See*—
Kimball, Charles N., Lewis, and Strecker.

Pavelka, Frederico, Milan, Italy. Electroosmotic apparatus. 2,593,915, Apr. 22.

Payne, William H., Hinsdale, Ill. Oil-burning and control apparatus. 2,594,206, Apr. 22.

Pearson, Ben, assignor to Ben Pearson, Inc., Pine Bluff, Ark. Support for archery equipment. 2,593,789, Apr. 22.

Pearson, Ben, Inc., assignee: *See*—
Pearson, Ben.

Pearson, Leo R., assignee: *See*—
Stokes, William P.

Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques, assignee: *See*—
Grolée, Jean.

Peckat, Charles, Manufacturing Co., assignee: *See*—
Squiers, Max U.

Peff, Peter, Reno, Nev. Apparatus and method for transporting and dispensing liquefied gas. 2,593,916, Apr. 22.

Pensig, Herbert, assignee: *See*—
James, George S.

Perfect Circle Corporation, assignee: *See*—
Jones, Cernyw F.
Teetor, Ralph R.

Perfection Stove Company, assignee: *See*—
Resek, Marc.

Perishables Shipping Equipment Company, assignee: *See*—
Demetrak, George C.

Permanente Metals Corporation, The, assignee: *See*—
Hesch, Frederick H.

Pestarini, Joseph M., Staten Island, N. Y. Electric power system. 2,593,482, Apr. 22.

Pestarini, Joseph M., Staten Island, N. Y. Electric power system. 2,593,483, Apr. 22.

Peters, Herbert W., Milwaukee, Wis., assignor to Cory Corporation, Chicago, Ill. Water-heating unit. 2,594,067, Apr. 22.

Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave analyzer for determining fundamental frequency of a complex wave. 2,593,694, Apr. 22.

Peterson, Eugene, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Analyzer for determining the fundamental frequency of a complex wave. 2,593,695, Apr. 22.

Petroleum Essentials, Inc., assignee: *See*—
Wells, Lloyd K., and Willard.

Pettit, Frank, Union, N. J. Electromagnetically operated bell jingler. 2,593,917, Apr. 22.

Philco Corporation, assignee: *See*—
Munster, Allen C.

Phillips Petroleum Company, assignee: *See*—
Crouch, Willie W.
Delametter, Walter F.
Evans, Walter R.

Philpott, La Verne R., Washington, D. C. Automatic aircraft propeller synchronizer. 2,593,484, Apr. 22.

Pickles, Sidney B., North White Plains, N. Y., and C. B. Watts, Jr., Indianapolis, Ind., assignors to International Standard Electric Corporation, New York, N. Y. Localizer beacon system. 2,593,485, Apr. 22.

Pierce, Robert E., Glendale, assignor to Bemis Bro. Bag Company, St. Louis, Mo. Bag closure apparatus. 2,594,207, Apr. 22.

Pietzsch, Frank H., Clayton, assignor to Western Railway Equipment Company, St. Louis, Mo. Railway car draft key retainer. 2,593,790, Apr. 22.

Pike, Milow W., Omaha, Nebr. Antiskid tire chain. 2,594,068, Apr. 22.

Pike, Winthrop S., Princeton, N. J., assignor to Radio Corporation of America. Signal selection. 2,593,600, Apr. 22.

Pilot, Lawrence E., Drexel Hill, Pa. Car barricade or bulkhead. 2,594,208, Apr. 22.

Pitcairn Company, The, assignee: *See*—
Bostock, Edward C.

Pitton, Eva V., Denver, Colo., assignor to International Cellucotton Products Company, Chicago, Ill. Sanitary belt. 2,593,791, Apr. 22.

Pittsburgh Plate Glass Company, assignee: *See*—
Parker, Earl E.
Plastic Binding Corporation, assignee: *See*—
Spinner, Isidore, and Dahly.
Platis, John: *See*—
Honeycutt, James V., Platis, and Marchand.
Poehlmann, George, assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Battery voltage selector jumper board and terminal board for industrial truck chargers. 2,594,069, Apr. 22.
Poisson, Alphonse: *See*—
Nye, Edward M., and Poisson.
Pollak, Myer, Dorchester, Mass. Utility cutter. 2,593,601, Apr. 22.
Pool, Stuart D., Moline, Ill., assignor to International Harvester Company. Tractor propelled agricultural spraying apparatus. 2,593,696, Apr. 22.
Pool, William, and W. I. Taylor, Spondon, near Derby, England, assignors to Celanese Corporation of America. Control means. 2,593,602, Apr. 22.
Porter, Ian S., Barnsley, England. Electric stop motion for looms. 2,594,209, Apr. 22.
Posada, Eduardo: *See*—
Legorreta, Luis G., Posada, and Camarena.
Potstada, George, deceased; by M. Potstada, administratrix, Oakland, Calif. Pruning shears. 2,593,603, Apr. 22.
Potstada, Magdalena, administratrix: *See*—
Potstada, George.
Potter, Loren D., Enderlin, N. Dak., and B. P. Johnson, Charlottesville, Va., assignors to Wingfoot Corporation, Akron, Ohio. Resin bonded cord. 2,594,210, Apr. 22.
Poupitch, Ouglesa J., assignor to Illinois Tool Works, Chicago, Ill. Fastener having clamping head. 2,594,211, Apr. 22.
Powernail Company, assignee: *See*—
Anstett, Edgar P.
Prather, Edwin E.: *See*—
Long, Richard H., and Prather.
Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,593,604, Apr. 22.
Price, Earl R., assignor to Bendix Aviation Corporation, South Bend, Ind. Transmission operating mechanism. 2,593,605, Apr. 22.
Price, H. C., Co., assignee: *See*—
Elliott, Bernard V.
Price, Milton R., Issaquah, assignor of one-half to O. E. Gibson, Seattle, Wash. Block-bisecting machine. 2,593,606, Apr. 22.
Proctor Electric Company, assignee: *See*—
Turner, Charles R.
Proudfoot, Charles B., Niagara Falls, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Ion gauge mounting. 2,594,212, Apr. 22.
Pruett, William A., assignor to Weber Showcase & Fixture Co., Inc., Los Angeles, Calif. Jar pump having antidrip spout. 2,593,607, Apr. 22.
Pschorr, Frank E.: *See*—
Anspon, Harry D., and Pschorr.
Radio Corporation of America, assignee: *See*—
Friend, Albert W.
Herold, Edward W.
Landon, Vernon D., Harvey, and Keizer.
Liberg, Edwin R.
Pike, Winthrop S.
Schroeder, Alfred C., and Sziklai.
Rahn, Otto, Ithaca, N. Y. Sterilization of salted foods and materials. 2,594,213, Apr. 22.
Rakos, Jules J., Beyoglu-Istanbul, Turkey. Fireproofing compositions. 2,593,400, Apr. 22.
Rambold, Adolf G. F., Stuttgart-Feuerbach, Germany, assignor to Teepack Spezialmaschinen G. m. b. H., Viersen/Rhld. (Germany). Folded bag. 2,593,608, Apr. 22.
Randall, Harold O.: *See*—
Goodbar, Mayo A., Green, and Randall.
Ras, Max, Zurich, Switzerland. Roller trip for printing machines. 2,594,214, Apr. 22.
Reaction Motors, Inc., assignee: *See*—
Winternitz, Paul F.
Read, William T., executor: *See*—
Hoeber, Harold.
Reagle, George E., Jamestown, N. Y. Ladder. 2,594,070, Apr. 22.
Reckler, Laurence L., Sparks, Nev. Fish lure. 2,593,792, Apr. 22.
Rector, Laurence L., Fort Worth, Tex. Ram-type tubing head. 2,593,793, Apr. 22.
Redman, Howard, Erlanger, Ky. Manhole extension. 2,593,918, Apr. 22.
Reetz, William H.: *See*—
McFarland, Arley, Reetz, and Burbank.
Reeves, Alec H., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Electric discharge tube. 2,593,486, Apr. 22.
Reichardt, Emerald P.: *See*—
O'Neill, John J., Jr., and Reichardt.
Reid, Colin C.: *See*—
Robinson, Preston, and Reid.
Reilly, Alfred F., North Attleboro, Mass. Counter display device. 2,593,697, Apr. 22.
Research Corporation, assignee: *See*—
Cashman, Robert J.
Resek, Marc, Cleveland Heights, assignor to Perfection Stove Company, Cleveland, Ohio. Stove top grate. 2,594,215, Apr. 22.
Resina Automatic Machinery Co. Inc., assignee: *See*—
Resina, Manuel S.
Resina, Manuel S., deceased, Brooklyn, N. Y.; R. Resina, executrix of said M. S. Resina, assignor to Resina Automatic Machinery Co. Inc., Brooklyn, N. Y. Rotatable cap applying chuck with cap gripping helical spring. 2,593,794, Apr. 22.
Resina, Rosa, executrix: *See*—
Resina, Manuel S.
Reverchon, Claude, Lons-le-Saunier, France. Code signal transmission system. 2,594,071, Apr. 22.
Reynolds, Harry R., assignor to The Fafnir Bearing Company, New Britain, Conn. Thrust bearing. 2,593,919, Apr. 22.
Reynolds, Kenneth W., Mayfield Heights, Ohio, assignor to General Electric Company. Brushing apparatus for burners. 2,593,920, Apr. 22.
Reynolds, William J.: *See*—
Wright, Esmond P. G., and Reynolds.
Rhoads, Albert B., Meadville, Pa., and W. F. Van Amburg, Oceanside, N. Y., assignors to Talon, Inc. Pocket concealed placket construction. 2,593,795, Apr. 22.
Rhodes, Albert, Cleveland, Ohio. Handle connection. 2,593,609, Apr. 22.
Ridley, Ian M., Burbank, Calif. Hopper with bottom discharge opening and means for metering the passage of granular material through said opening into a delivery conduit. 2,594,072, Apr. 22.
Riesz, Kolman: *See*—
Sonnemann, William K., and Riesz.
Riesz, Robert R., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Apparatus for determining pitch frequency in a complex wave. 2,593,698, Apr. 22.
Riewerts, John R., Davenport, Iowa. Load-supporting attachment for tractors. 2,593,796, Apr. 22.
Riner, Theodore H., Bakersfield, Calif. Fish lure and constructing same. 2,594,264, Apr. 22.
Road, Richard A.: *See*—
Dorsam, William J., Paine, and Road.
Robb, Lester E.: *See*—
Lontz, John F., and Robb.
Robbins, Albert A., West Covina, assignor of one-tenth to P. Subkow, Los Angeles, Calif. Flower mounting. 2,593,797, Apr. 22.
Robbins, Carl G., Chicago, Ill. Condensate disposal system for refrigerators. 2,594,073, Apr. 22.
Roberts, Rodney E., North Kansas City, assignor of one-third to E. G. Forshay and one-third to S. Krechesfky, Kansas City, Mo. Conveyer skirt and apron holder. 2,593,610, Apr. 22.
Robinson, Elton E., Concord, assignor to Samuel Eastman Co. Inc., Concord, N. H. Nozzle pipe for use with aerial ladders. 2,593,921, Apr. 22.
Robinson, Preston, Williamstown, and C. C. Reid, Boston, assignors to Sprague Electric Company, North Adams, Mass. Insulated electrical conductor. 2,593,922, Apr. 22.
Robinson, Richard A., Morton Grove, assignor to G. D. Searle & Co., Skokie, Ill. Aminoalkylamino isoquinoline compounds. 2,593,798, Apr. 22.
Robinson, Roy H., Chicago, Ill. Making cellular structures. 2,593,714, Apr. 22.
Roddin, Daniel P., Brooklyn, and B. L. Kline, Manhasset, assignors to The Western Union Telegraph Company, New York, N. Y. Making a telegraphic facsimile transmitting blank. 2,593,923, Apr. 22.
Rodwell Engineering and Sales Company, assignee: *See*—
Whitehouse, Ben.
Roe, A. V., Canada Limited, assignee: *See*—
Boyd, Winnett.
Creek, John O.
Roeser, John O., assignor to The Exhibit Supply Company, Chicago, Ill. Electric switch of the snap action type. 2,594,216, Apr. 22.
Rogers, Thomas H., Jr., and W. T. L. Ten Broeck, assignors to Wingfoot Corporation, Akron, Ohio. Sponge rubber containing wax. 2,594,217, Apr. 22.
Rooksby, William H., Trafford Park, assignor to Turners Asbestos Cement Company Limited, Spotland, Rochdale, England. Plant for shaping asbestos cement. 2,593,611, Apr. 22.
Rose, Andrew G., assignor to Jervis B. Webb Company, Detroit, Mich. Booster conveyer for gravity conveyer systems. 2,593,699, Apr. 22.
Rose, Howard E., Peninsula, Ohio, assignor to Alco Valve Company, University City, Mo. Fuse valve. 2,593,612, Apr. 22.
Rosenfeld, Lawrence, New York, N. Y. Lamp support for insertion in tubular lamp stands. 2,594,074, Apr. 22.
Rosenstein, Mitchell M., Willimantic, Conn. Stop motion for textile machines. 2,594,218, Apr. 22.
Rosenwald, Robert H.: *See*—
Gleim, William K. T., Gaydasch, and Rosenwald.
Rosner, Ernest, Chicago, Ill. Fishing reel. 2,593,700, Apr. 22.

Ross, Karl F.: *See*—
Cutler, Phil, and Ross.
Roth, Wilfred, Cambridge, Mass., and J. Ohman, Northport, N. Y., assignors to Geovision Incorporated. Apparatus for geophysical display. 2,594,219, Apr. 22.
Rothkamm, Warren G., Lafayette, La. Small tree and plant extractor. 2,593,924, Apr. 22.
Rotol Limited, assignee: *See*—
Morris, Edward H., Danvers, and Godden.
Royal, Celestian L., Keokuk, Iowa, assignor to General Mills, Inc. Gluten hydrolysis. 2,593,487, Apr. 22.
Royal Patent Corporation, assignee: *See*—
Wolverton, Marcine P.
Royer, William M., assignor to A. E. Staley Manufacturing Company, Decatur, Ill. Handgrip operated switch. 2,593,488, Apr. 22.
Rozett, Benjamin, Chicago, Ill., assignor to J. Weidenhoff, Incorporated. Adapter. 2,594,220, Apr. 22.
Rubin, Alexander N., assignee: *See*—
Biehl, Charles B.
Ruger Equipment, Inc., assignee: *See*—
Schlein, Seymour.
Rugg, Harold H., Pittsburgh, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Metal enclosed switchgear. 2,594,075, Apr. 22.
Rummelsburg, Alfred L., assignor to Hercules Powder Company, Wilmington, Del. Condensates of rosin with carbocyclic unsaturated hydrocarbons. 2,593,613, Apr. 22.
Rumscheidt, Gottfried E.: *See*—
De Nie, Willem L. J., and Rumscheidt.
Russell, Herbert H.: *See*—
Baehr, Carl G., and Russell.
Russell, William P., La Grange, assignor to J. R. Ford, La Grange Park, Ill. Tool for cleaning grease fittings. 2,593,799, Apr. 22.
Ryan, Warren E., Grinnell, Iowa. Bale loader. 2,594,221, Apr. 22.
Salmon, Reginald D., and F. J. L. Turner, Croyden, assignors to Creed and Company Limited, Croydon, Surrey, England. Printing telegraph receiver. 2,593,489, Apr. 22.
Samford, Eugene W.: *See*—
Hager, John I., and Samford.
Sampson, Walter J.: *See*—
Walters, William M., Jr., and Sampson.
Sander, Albert, assignor to Th. Goldschmidt A. G., Essen, Germany. Preparation of 2-mercapto-arylene-thiazole-6-sulphonic acids and salts thereof. 2,593,800, Apr. 22.
Sanders, Robert W., Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation. Audio signal tone control. 2,593,490, Apr. 22.
Sanderson, Kenneth E., assignor to Draper Corporation, Hopedale, Mass. Loom filling feeler. 2,593,614, Apr. 22.
Sandora, Manuel A., San Francisco, and C. E. Freeman, San Carlos, assignors to C. E. Freeman Co., Inc., San Francisco, Calif. Manifold for molten material spray guns. 2,594,222, Apr. 22.
Sanford, Paul W., assignor of one-half to Body Guard-Valve Co., Inc., and one-half to Shepherd Machine & Tool Co., Inc., Indianapolis, Ind. Antiscald and proportioning valve. 2,593,701, Apr. 22.
Santarelli, Vincent, Detroit, Mich. Sprayer. 2,594,223, Apr. 22.
Sapers, Ira: *See*—
Cook, Alton A., and Sapers.
Sargent & Company, assignee: *See*—
Kulbersh, Nathan.
Sarioni Company, Inc., assignee: *See*—
Curioni, Aldo R.
Sauer, Ronald A., Cleveland, Ohio. Apparatus for making commutators. 2,593,801, Apr. 22.
Saunders, Harold E., Takoma Park, C. A. Lee, Bethesda, E. A. G. Marvinney, Chevy Chase, Md., and W. F. Brownell, Jr., Yeadon, Pa. Water tunnel. 2,593,491, Apr. 22.
Savitz, Christian W.: *See*—
Deskin, Roy, and Savitz.
Schaef, Irving W., Jr.: *See*—
Solomon, Nathan L., and Schaef.
Schlachman, Benjamin, Baltimore, Md., and W. S. Brower, Jr., Arlington, Va. Electronic stress-strain recorder. 2,593,493, Apr. 22.
Schleimer, Floyd V.: *See*—
Davis, William H. H., and Schleimer.
Schlein, Seymour, Cleveland, assignor, by mesne assignments, to Ruger Equipment, Inc., Uhrichsville, Ohio. Truck mounted crane. 2,594,076, Apr. 22.
Schmidt, Willy A.: *See*—
Sprung, Joseph A., and Schmidt.
Schmitt, Désiré, Saint-Maur, assignor to "Ateliers de Constructions Lavalette," Saint-Ouen, France. Fuel flow regulator for supercharged aircraft engines. 2,593,802, Apr. 22.
Schneible, Claude B., Detroit, Mich. Gaseous curtain for ventilating exhaust. 2,593,702, Apr. 22.
Schofield, John D., New York, N. Y. Dispensing attachment for containers. 2,593,803, Apr. 22.
Schoot, Lawrence A., Detroit, Mich. Transmission. 2,593,804, Apr. 22.
Schowalter, Clarence H., Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill. Gas engine. 2,594,224, Apr. 22.
Schroeder, Alfred C., Feasterville, Pa., and G. C. Sziklai, Princeton, N. J., assignors to Radio Corporation of America. Electronic spectroscope. 2,593,616, Apr. 22.
Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Scale. 2,593,615, Apr. 22.
Schroeder, Wilburn C.: *See*—
Newman, Louis L., and Schroeder.
Schroeppel, Paul R., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Windrower. 2,593,617, Apr. 22.
Schulze, Louis J., assignor to The Sheffield Corporation, Dayton, Ohio. Gauging device. 2,594,077, Apr. 22.
Scott & Fetzer Company, assignee: *See*—
MacFarland, Charles H.
Scoville, Ray R., Glendale, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic marker for cathode-ray indicator tubes. 2,594,078, Apr. 22.
Scripture, Edward W., Jr., Cleveland Heights, assignor to The Master Builders Company, Cleveland, Ohio. Hydraulic cement composition and indurating composition therefor. 2,593,492, Apr. 22.
Searle, G. D., & Co., assignee: *See*—
Robinson, Richard A.
Sebel, Harry, London, England. Remotely controlled mechanical walking toy. 2,593,618, Apr. 22.
See Fabriks Aktiebolag, assignee: *See*—
Larsson, Gustaf H.
Settles, James C., Columbus, and L. E. Furniss, Groveport, assignors to The Buckeye Steel Castings Company, Columbus, Ohio. Inboard railway truck. 2,594,079, Apr. 22.
Seward, Edgar C., Arlington, Va. Freight handling equipment. 2,593,494, Apr. 22.
Shafter, Ruland R., Freeport, N. Y., assignor to Nordberg Manufacturing Co., Milwaukee, Wis. Gyratory crusher. 2,594,080, Apr. 22.
Shapiro, Hymin: *See*—
Krohn, Ivar T., and Shapiro.
Shapiro, Hymin, Detroit, and I. T. Krohn, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y. Manufacture of alkyllead compounds with calcium-lead alloys. 2,594,225, Apr. 22.
Shea, Frederick L., Jr., Chicago, Ill., assignor to Great Lakes Carbon Corporation, Morton Grove, Ill. Carbon electrodes from bituminous coal. 2,594,226, Apr. 22.
Sheffield Corporation, The, assignee: *See*—
Aller, Willis F.
Mahlmeister, Louis J.
Schulze, Louis J.
Sheldon, Edward E., New York, N. Y. Device for color projection of invisible rays. 2,593,925, Apr. 22.
Shell Development Company, assignee: *See*—
De Nie, Willem L. J., and Rumscheidt.
Shepherd Machine & Tool Co., Inc., assignee: *See*—
Sanford, Paul W.
Shimp, Hans G., Moylan, Pa., assignor to Houdry Process Corporation, Wilmington, Del. Applying an atomized hydrocarbon mixture to contact material during passage thereof through a reaction zone. 2,593,495, Apr. 22.
Shingler, Dean S.: *See*—
Anderson, William H., Shingler, and Boyd.
Shlenker, Charles N., New York, assignor to E. A. Neugass, Port Chester, N. Y. Illuminated panel. 2,594,081, Apr. 22.
Sickelka, Gustav J., Philadelphia, Pa. Soap cake holder. 2,594,082, Apr. 22.
Siemens & Halske Aktiengesellschaft, assignee: *See*—
Jacobi, Werner, and Hinderer.
Jacobi, Werner, Hinderer, and Katz.
Silvaggio, Joseph A.: *See*—
Madgwick, Frederick K., and Silvaggio.
Silver, Frank V., Chicago, Ill. Ball-point pen and cap. 2,594,083, Apr. 22.
Simons, Joseph H.: *See*—
Diesslin, Albert R., Kauck, and Simons.
Simons, William G., Rockridge, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Phenol-formaldehyde condensation products and producing same. 2,593,926, Apr. 22.
Simplex Company, The, assignee: *See*—
Compton, Henry P.
Sinclair Refining Company, assignee: *See*—
Watkins, Franklin M.
Singer Manufacturing Company, The, assignee: *See*—
Enos, John P.
Sinkler, Arthur B., assignor to Hamilton Watch Company, Lancaster, Pa. Watchmaker's vise. 2,593,703, Apr. 22.
Skellern, John: *See*—
Chamberlin, R. H. D., Wynne, and Skellern.
Skibbe, Harold A.: *See*—
Skibbe, Henry and H. A.
Skibbe, Henry and H. A., Eau Claire, Mich. Seed and fertilizer spreader. 2,594,084, Apr. 22.
Skycraft Mfg. Corp., assignee: *See*—
Calhoun, Jack A.
Slattery, Edward J., Montgomery County, Md. Cabinet for sound record disks. 2,593,927, Apr. 22.
Slifkin, Sam C., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Dimensionally stable diazotype photographic film and making it. 2,593,928, Apr. 22.

Smith, Charles V., assignor to The Charles C. Cullen Co. Inc., Seattle, Wash. Locking knee joint for artificial limbs and orthopedic braces. 2,594,227, Apr. 22.
Smith, Daniel: *See*—
Dolton, Dorothy M., and Smith.
Smith, David P., Meriden, Conn. Table supported abdominal retractor. 2,594,086, Apr. 22.
Smith, Drum and Company, assignee: *See*—
Drum, Harry S., and Hopkins.
Smith, Frank R., Orange, Tex. Garment receiving bracket or hanger. 2,594,228, Apr. 22.
Smith, Herschel G., Wallingford, and T. L. Cantrell, Lansdowne, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Addition agent and mineral oil lubricant compositions containing the same. 2,593,496, Apr. 22.
Smith, Homer E., Northumberland, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Radio apparatus. 2,594,085, Apr. 22.
Smith, Howard, Paper Mills, Limited, assignee: *See*—
Tomlinson, George H. and G. H., II.
Smith, John O., Jr., North Plainfield, and A. R. Jones, Roselle, N. J., assignors to Standard Oil Development Company. Treatment of hydrocarbon oils with an alkyl oxalate and an alkali alcoholate. 2,593,619, Apr. 22.
Smurik, Joseph, New York, N. Y. Adjustable harp for electric light lamp shades. 2,593,704, Apr. 22.
Snyder, James E., Akron, and F. J. Young, Cuyahoga Falls, assignors to Wingfoot Corporation, Akron, Ohio. Laminated stretched film. 2,594,229, Apr. 22.
Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, assignee: *See*—
Blanchard, Louis.
Societe Anonyme dite: Automobiles Industriels Latil, assignee: *See*—
Amey, Georges.
Societe-Anonyme dite: Societe Generale Isothermos, assignee: *See*—
Bouvat-Martin, Jean.
Societe Francaise Radio-Electrique, assignee: *See*—
Chireix, Henri.
Société Nationale d'Etude et de Construction de Moteurs d'Aviation, assignee: *See*—
Bauger, Louis A. J.
Socony-Vacuum Oil Company, Incorporated, assignee: *See*—
Watts, Richard G.
Soffel, Robert O., Hastings-on-Hudson, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Radio receiver selection system. 2,594,087, Apr. 22.
Solomon, Nathan L. Englewood, and I. W. Schaef, Jr., Norwood, N. J., said Schaef assignor to said Solomon. Barrette. 2,594,230, Apr. 22.
Solop, Sydor, Brackney, Pa. Hair curler. 2,593,929, Apr. 22.
Solowey, Mathilde: *See*—
Kaplan, Arthur M., and Solowey.
Sonnemann, William K., Roselle Park, and K. Riesz, Gillette, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Polarized relay construction. 2,594,088, Apr. 22.
Soreng, Edgar M., Skokie, H. Y. Fisher, Hillside, and G. D. Johnson, Bensenville, assignors to Soreng Manufacturing Corporation, Schiller Park, Ill. Solenoid with plunger. 2,594,089, Apr. 22.
Soreng Manufacturing Corporation, assignee: *See*—
Soreng, Edgar M., Fisher and Johnson.
Spearow, Ralph, Portland, Oreg. Method and apparatus for producing oil wells. 2,593,497, Apr. 22.
Speed Products Company, Inc., assignee: *See*—
Neilsen, Hildaur L.
Spencer, Lloyd, Los Angeles, assignor of thirty-three and one-third per cent to T. C. Bannon, Altadena, and thirty-three and one-third per cent to J. D. Chestnut, Newport Beach, Calif. Gun perforator. 2,593,620, Apr. 22.
Sperry Corporation, The, assignee: *See*—
Dawson, Edward.
Harrison, Arthur E.
Thomas, Eric L.
Spinner, Isidore and H. W. Dahly, assignors to Plastic Binding Corporation, Chicago, Ill. Plastic binding machine. 2,593,805, Apr. 22.
Sprague Electric Company, assignee: *See*—
Robinson, Preston, and Reid.
Spring, Frank S.: *See*—
Toneray, Millard H., and Spring.
Sprung, Joseph A., and W. A. Schmidt, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Printing fabrics with aryl sulfonhydrazides. 2,593,930, Apr. 22.
Squiers, Max U., La Grange, Ill., assignor to Charles Peckat Manufacturing Co. Visor for vehicles. 2,594,231, Apr. 22.
Staaf, Werner L., Rennerdale, Pa. Removable letter display sign. 2,593,621, Apr. 22.
Stadum, Clarence B., Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Automatic timing system. 2,594,090, Apr. 22.
Staley, A. E., Manufacturing Company, assignee: *See*—
Royer, William M.
Standard Forging Corporation, assignee: *See*—
Cornell, Dana R.
Standard Oil Company, assignee: *See*—
Irwin, Ernest R.
Krause, Jack H.
Standard Oil Development Company, assignee: *See*—
Fischer, Wilbur F., Knoth, and Newberg.
Herbst, Walter A., and Howell.
Lynch, Charles S.
Smith, John O., Jr., and Jones.
Stone, Albert L.
Stanelle, Albert L., Milwaukee, Wis. Screw holding screw driver. 2,593,622, Apr. 22.
Stearns, Walter V., White Plains, N. Y., assignor to The M. W. Kellogg Co., Jersey City, N. J. Recovering selective solvents. 2,593,931, Apr. 22.
Steelcraft Tool Manufacturing Corp., assignee: *See*—
Hahn, Harry.
Steele, Doty M., Los Angeles, Calif. Surf board with an extensible keel member. 2,593,806, Apr. 22.
Stegeman, Raymond F. E., Greece, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Spectacle frame. 2,593,932, Apr. 22.
Stein, Frederick W., Atchison, Kans. Apparatus for testing materials. 2,593,807, Apr. 22.
Stempel, Rudolph G., Greenwich, Conn. Body rest for viewing television. 2,593,623, Apr. 22.
Stephenson, William B., Fond du Lac, Wis. Draft control. 2,593,808, Apr. 22.
Stevens, Evan W., Kendall, Kans. Spinal adjusting device. 2,593,624, Apr. 22.
Stewart-Warner Corporation, assignee: *See*—
Norman, Horace M.
Sticelber, Merlin A., Kansas City, Mo., assignor to Stickelber & Sons, Inc. Dough mixer with dough gripping and refrigerated wall. 2,593,705, Apr. 22.
Stickelber & Sons, Inc., assignee: *See*—
Sticelber, Merlin A.
Stockstill, Clinton L., Detroit, Mich. Solar heater and heat exchanger. 2,594,232, Apr. 22.
Stoddard, William E., and G. W. Kelly, Saginaw, Mich. Fisherman's ice sled. 2,593,809, Apr. 22.
Stokes, William P., Portland, Oreg., assignor of one-fourth to H. J. Casey, and one-fourth to G. Goodpasture, and one-fourth to L. R. Pearson. Nut gathering machine. 2,593,625, Apr. 22.
Stoltenberg, Delbert H., assignor to The Electric Auto-Lite Company, Toledo, Ohio. Parting windshield wiper motor of the oscillating piston type. 2,593,626, Apr. 22.
Stone, Albert L., Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Leaf spring for spinning pipe. 2,593,498, Apr. 22.
Stoner, Frank H., assignor to Monroe Auto Equipment Company, Monroe, Mich. Refuse box cover construction. 2,594,233, Apr. 22.
Stover, Harry E., assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio. Inverting apparatus. 2,593,627, Apr. 22.
Strawn, Raymond C., Chicago, Ill. Planetary power transmission device. 2,593,933, Apr. 22.
Strecker, Herman A.: *See*—
Kimball, Charles N., Lewis, and Strecker.
Strezynski, George J., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Centrifuge for separating cream from cold milk products. 2,593,934, Apr. 22.
Strong, Henry G., Fayetteville, N. Y. Quotient or product metering and registering instrument. 2,593,628, Apr. 22.
Subkow, Philip, assignee: *See*—
Robbins, Albert A.
Sullivan, Edward J., Des Moines, Iowa. Illuminating the dial of a manually set automatic transmission. 2,593,810, Apr. 22.
Summerhayes, Harry R., Jr., Schenectady, N. Y., assignor to General Electric Company. Piezoelectric crystal frequency discriminator. 2,594,091, Apr. 22.
Sundstrom, Roy N., assignor to Corning Glass Works, Corning, N. Y. Glass feeder. 2,593,499, Apr. 22.
Super Mold Corporation of California, assignee: *See*—
Duerksen, Arnold.
Sweat, Martin A., Waycross, Ga. Cotter pin puller. 2,593,935, Apr. 22.
Swift, Clifford L., Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill. Four-speed countershaft and planetary transmission. 2,593,629, Apr. 22.
Swindin, Norman, London, England. Submerged flame burner. 2,594,234, Apr. 22.
Swinehart, Frank, Strongsville, assignor to The Brush Development Company, Cleveland, Ohio. Milling frangible material. 2,593,811, Apr. 22.
Sylvania Electric Products, Inc., assignee: *See*—
Mitchell, Don G.
Synco Machine Company, assignee: *See*—
Bruestle, Carl O.
Sziklai, George C.: *See*—
Schroeder, Alfred C., and Sziklai.
Talbot, Howard H.: *See*—
Biggert, Florence C., Jr., and Talbot.
Talon, Inc., assignee: *See*—
Dorman, Leonard M.
Rhoads, Albert B., and Van Amburg.
Taylor, Charles W., assignor to Wingfoot Corporation, Akron, Ohio. Gasoline container. 2,594,235, Apr. 22.

Taylor Instrument Companies, assignee: *See*—
Di Maggio, Samuel S., Jr.
Taylor, John W., Jr., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Multivibrator. 2,594,092, Apr. 22.
Taylor, William I.: *See*—
Pool, William, and Taylor.
Tecalemit Limited, assignee: *See*—
Le Clair, Camille C. S.
Teepack Spezialmaschinen G m. b. H., assignee: *See*—
Rambold, Aldolf G. F.
Teetor, Ralph R., Hagerstown, Ind., assignor to Perfect Circle Corporation. Work holder for cylindrical articles. 2,593,936, Apr. 22.
Ten Broeck, Walter T. L.: *See*—
Rogers, Thomas H., Jr., and Ten Broeck.
Ten Cate, Arthur C., Downers Grove, assignor to Oak Mfg. Co., Chicago, Ill. Phonograph. 2,594,246, Apr. 22.
Terre Hill Machine Co. Inc., assignee: *See*—
Matthews, Charles, and Wenger.
Th. Goldschmidt A. G., assignee: *See*—
Sander, Albert.
Thibaudat, Albert, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France. Circuit breaker operating system. 2,594,247, Apr. 22.
Thierry, John A., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Tractor implement supporting cradle. 2,593,500, Apr. 22.
Thomas, Eric L., Wembley, England, assignor to The Sperry Corporation. Stroboscope. 2,593,501, Apr. 22.
Thompson, Elmer B., assignor to Globe Hoist Company, Des Moines, Iowa. Vehicle hoist. 2,593,630, Apr. 22.
Thompson, Margaret H., Tampa, Fla. Brassière. 2,594,248, Apr. 22.
Thompson Products, Inc., assignee: *See*—
Gibian, Emil F.
Wainer, Eugene.
Thompson, Robert E., Lisle, assignor to Armour and Company, Chicago, Ill. Powder container. 2,594,093, Apr. 22.
Thomson, Henry A., Lansdowne, Pa. Spring hanger. 2,593,502, Apr. 22.
Tiller, Frances H., Carthage, Tex. Combined ironing board and iron holder. 2,593,937, Apr. 22.
Timken-Detroit Axle Company, The, assignee: *See*—
Buckendale, Lawrence R.
Tims, Tony C., Hyattsville, Md. Pivoted door supporting clamp. 2,594,249, Apr. 22.
Titan Abrasives Company, assignee: *See*—
Doermann, Albert J.
Tixhon, Marie T., Herstal, and E. Laguesse, Leige, Belgium. Automatic obturator for the adduction of fluids. 2,593,938, Apr. 22.
Todaro, Casper A.: *See*—
Coons, Robert J., and Todaro.
Todd, Floyd, Springfield, assignor to Fisher Scientific Company, Pittsburgh, Pa. Gas burner with flame retention ports. 2,594,094, Apr. 22.
Tognetti, Charles, Union City, N. J. Game apparatus for chance-selected indications. 2,593,631, Apr. 22.
Tomlinson, George H., Montreal, Quebec, and G. H. Tomlinson II, Cornwall, Ontario, assignors to Howard Smith Paper Mills, Limited, Montreal, Quebec, Canada. Recovering heat and chemicals from the residual liquor resulting from the digestion of cellulosic fibrous material. 2,593,503, Apr. 22.
Tomlinson, George H. II: *See*—
Tomlinson, George H. and G. H., II.
Toncray, Millard H., and F. S. Spring, Grosse Pointe, assignors to Hudson Motor Car Company, Detroit, Mich. Motor vehicle. 2,593,632, Apr. 22.
Törnros, Eugén: *See*—
Carlsson, Johan E., Landau, and Törnros.
Torregrossa, Robert E., and R. D. Babington, Bogalusa, La. Collapsible paper rewinding shaft. 2,594,095, Apr. 22.
Tranbarger, Dale O., Seattle, Wash. Waste material disposal apparatus. 2,594,250, Apr. 22.
Trathen, James, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Safety mechanism for splicing machines. 2,594,251, Apr. 22.
Tratzik, Frederick: *See*—
Bowan, Walter J., and Tratzik.
Trendex Co., The, assignee: *See*—
Jenness, Leslie G.
Trigg, Warren M., Wilkinsburg, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Treating windings with completely-reactive compositions. 2,594,096, Apr. 22.
Trist, Arthur R., Woking, England. Packing for rotating shafts. 2,593,939, Apr. 22.
Tube Reducing Corporation, assignee: *See*—
Coe, George B.
Turner, Charles R., Enfield, Springfield Township, Montgomery County, assignor to Proctor Electric Company, Philadelphia, Pa. Thermostatic control and excessive temperature indication mechanism. 2,593,812, Apr. 22.
Turner, Frederick J. L.: *See*—
Salmon, Reginald D., and Turner.
Turners Asbestos Cement Company Limited, assignee: *See*—
Rookaby, William H.

Tuttle, Henry C., trustee, assignee: *See*—
Vail, Daniel R., and De Luca.
Twyman, Lewis, Miami, Fla. Body harness. 2,594,097, Apr. 22.
Umpleby, Kenneth F., Baltimore, Md., assignor to The Decca Record Company, Limited, London, England. Electrodynamic phonograph pickup. 2,593,633, Apr. 22.
United Aircraft Corporation, assignee: *See*—
Lee, John G.
United Engineering and Foundry Company, assignee: *See*—
Biggert, Florence C., Jr., and Talbot.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Proudfoot, Charles B.
Wiegand, Clyde E., and Chamberlain.
United States Rubber Company, assignee: *See*—
Ladd, Elbert C.
Newman, Ferris E.
Universal Oil Products Company, assignee: *See*—
Beam, Jon.
Bielawski, Mitchell S.
Gleim, William K. T., Gaydasch, and Rosenwald.
Johnstone, Warren W.
Usco Power Equipment Corp., assignee: *See*—
Gilliland, William H.
Vail, Daniel R., Brookline, and R. A. De Luca, assignors to H. C. Tuttle, Boston, Mass., as trustee. Cell case machine. 2,594,252, Apr. 22.
Valley Products Corporation, assignee: *See*—
Cannon, Ernest E.
Van Amburg, William F.: *See*—
Rhoads, Albert B., and Van Amburg.
Vander Veer, John H., Westfield, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass. Emergency release mechanism for exit doors. 2,594,253, Apr. 22.
Van Derwalker, Jacob G., Buffalo, N. Y. Coin actuated switch mechanism. 2,593,813, Apr. 22.
Vanderzee, Harry H., Chicago, Ill., assignor to Joy Manufacturing Company. Drilling apparatus. 2,594,098, Apr. 22.
Van Glider, Burrows C., North Wales, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Focusing coil for cathode-ray tubes. 2,594,099, Apr. 22.
Van Meter, John M., Los Angeles, Calif. Animal leash. 2,593,940, Apr. 22.
Van Schie, Robert J., Grand Rapids, Mich. Machine for feeding sheets from the top of a stack of stiff sheets. 2,593,814, Apr. 22.
Van Sciver, Earl T., Glenside, assignor to Bachman Bros., Inc., Philadelphia, Pa. Reversing toy trolley car. 2,593,941, Apr. 22.
Van Vliet, Robert E., and C. A. Lesoine, Marshalls Creek, Pa. Pistol type flashlight having separable casing parts and trigger operated switch. 2,593,942, Apr. 22.
Varela, Arthur A., Washington, D. C. Impulse group keying system. 2,593,504, Apr. 22.
Vaughn, Forrest H.: *See*—
Hastings, Orville L., and Vaughn.
Verrinder, Ernest A., and R. H. Heard, Riverside, assignors to Food Machinery and Chemical Corporation, San Jose, Calif. Nailing machine. 2,594,100, Apr. 22.
Vickers-Armstrongs Limited, assignee: *See*—
Nasmith, John L., and Kirby.
Victor Chemical Works, assignee: *See*—
Coleman, William B., and Coté.
Victor Manufacturing & Gasket Co., assignee: *See*—
Aukers, Albert J., and Church.
Vidalis, Peter G., and N. J. Panoussiadis, Athens, Greece. Apparatus and method of closing an electric circuit by means of a secret combination changeable at will. 2,594,254, Apr. 22.
Vidaver, William J., Detroit, Mich. Artificial teeth. 2,593,815, Apr. 22.
Vigness, Peter C., Zumbrota, Minn. Gopher trap. 2,593,816, Apr. 22.
Volker, John F., Meadville, assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa. Portable fan-type air heater. 2,594,101, Apr. 22.
Vollmer, Leonhard, New York, N. Y. Automatic inserter for suturing clips. 2,594,102, Apr. 22.
Von Zelewsky, Ottomar, Neuhausen on the Rheinfall, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland. Clamping device for machine tools. 2,593,706, Apr. 22.
Vosburg, Guy M., Pontiac, assignor to Dri-Flo Manufacturing Co., Hazel Park, Mich. Spigot for discharging liquid from containers. 2,593,634, Apr. 22.
Waggoner, Jack H., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Colored glass fiber product and producing the same. 2,593,817, Apr. 22.
Waggoner, Jack H., Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation. Colored glass fiber product and producing the same. 2,593,818, Apr. 22.
Wagner, E. R., Manufacturing Company, assignee: *See*—
Kirkpatrick, William O.
Wagner, Gustave H.: *See*—
Wagner, Harold A. and G. H.
Wagner, Harold A. and G. H., Portland, Oreg. Mobile cement mixer drum drive. 2,594,236, Apr. 22.
Wagstaff, James B., Ridgewood, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y. Metal refining process. 2,593,505, Apr. 22.

Wainer, Eugene, Cleveland Heights, assignor, by mesne assignments, to Thompson Products Inc., Cleveland, Ohio. Molding nonmetallic powders. 2,593,507, Apr. 22.
Wainer, Eugene, Cleveland Heights, assignor, by mesne assignments, to Thompson Products, Inc., Cleveland, Ohio. Molding powders of metal character. 2,593,943, Apr. 22.
Waldorf Paper Products Company, assignee: *See*— Guyer, Reynolds.
Wales, George F., Kenmore, N. Y. Method and apparatus for punching materials with screws and lodging same therein. 2,593,506, Apr. 22.
Walker, Thomas B., assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England. Filter. 2,593,707, Apr. 22.
Walker, Willard T., Racine, Wis., assignor, by mesne assignments, to Globe Hoist Company, Des Moines, Iowa. Method and mechanism for raising vehicles. 2,593,635, Apr. 22.
Wallenhorst, Richard G., Glendale, N. Y. Clip retaining means for Garand rifles. 2,594,237, Apr. 22.
Walls, Leslie P., and N. Whittaker, London, England, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. 2,7-diamino-9-(aminophenyl) phenanthridinium salts. 2,594,265, Apr. 22.
Walters, Charles L., Prague, Okla. Automatic carriage puller for case balers. 2,593,636, Apr. 22.
Walters, William M., Jr., Eleanor, and W. J. Sampson, Nitro, W. Va. Utility garden tool. 2,593,944, Apr. 22.
War, United States of America as represented by the Secretary of, assignee: *See*— Fill, John V. Meier, Allen S., and Coleman.
Ward Machine Company, Inc., assignee: *See*— Arey, Ralph G.
Ward, Mark, Opportunity, Wash. Smoking pipe. 2,593,819, Apr. 22.
Ward, William J., Philadelphia, Pa. Automatic electric time control. 2,594,103, Apr. 22.
Ware, Richard N., Jr., and R. Cannon, Tallulah, La., assignors to Chicago Mill and Lumber Company, Chicago, Ill. Producing paper-covered wood veneer. 2,593,708, Apr. 22.
Ware, Richard N., Jr., and R. Cannon, Tallulah, La., assignors to Chicago Mill and Lumber Company, Chicago, Ill. Veneer handling apparatus. 2,593,709, Apr. 22.
Warner, Frederick J., Mansfield, England. Door operator. 2,593,710, Apr. 22.
Washburn, Clayton A., Westwood, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Linear sweep circuits. 2,594,104, Apr. 22.
Washburn, Harold W., assignor to Consolidated Engineering Corporation, Pasadena, Calif. Variable shunt permanent magnet. 2,593,508, Apr. 22.
Watkins, Franklin M., Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y. Prevention of rust. 2,594,266, Apr. 22.
Watts, Chester B., Jr.: *See*— Pickles, Sidney B., and Watts.
Watts, Richard G., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. System for gathering and loading oil from underwater oil wells. 2,594,105, Apr. 22.
Wean Engineering Co., Inc., The, assignee: *See*— McArthur, Donald A.
Weatherly, Andrew E., assignor to Gem-Dandy, Inc., Madison, N. C. Brassière. 2,593,711, Apr. 22.
Webb Jervis B., Company, assignee: *See*— Rose, Andrew G.
Weber, Jack, and T. P. Charnley, Tottenham, London, England. Machine for use in the manufacture of footwear. 2,593,945, Apr. 22.
Weber, Max, Geneva, Switzerland. Clock setting mechanism. 2,594,106, Apr. 22.
Weber, Paul J.: *See*— Else, Harry D., and Weber.
Weber Showcase & Fixture Co., Inc., assignee: *See*— Pruett, William A.
Webster, Roger L.: *See*— McGrath, Charles H., and Webster.
Weidenhoff, Joseph, assignee: *See*— Rosett, Benjamin.
Weisker, Ellis, Wells, N. Y. Demountable awning or sunshield structure for automobile windows. 2,594,238, Apr. 22.
Weiss, Dewey S., Portland, Oreg. Locking pin. 2,594,239, Apr. 22.
Weiss, Samuel, Portland, Oreg. Attachment for industrial trucks. 2,593,820, Apr. 22.
Welch, Edward, Valley Falls, R. I. Mouthpiece. 2,593,821, Apr. 22.
Weldin, Lewis C., Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del. Loaded cartridge with frangible projectile. 2,593,637, Apr. 22.
Weldy, Arthur S., Mount Eden, Calif. Horizontal return fire tube boiler having a central furnace with double outlet. 2,593,946, Apr. 22.
Weller, Carl E., Easton, Pa. Electrically heated apparatus. 2,593,947, Apr. 22.
Wells, Lloyd K., and S. X. Willard, Glendora, assignors to Petroleum Essentials, Inc., Los Angeles, Calif. Filling fitting. 2,593,712, Apr. 22.
Wells, William S., Palo Alto, Calif., assignor to Daisy Manufacturing Company, Plymouth, Mich. Pneumatic gun. 2,594,240, Apr. 22.
Wendt, Arnold R., and J. Kosten, Grand Rapids, Mich. Oar assembly. 2,593,822, Apr. 22.
Wenger, Harvey M.: *See*— Matthews, Charles, and Wenger.
West Bend Aluminum Co., assignee: *See*— Finch, Leonard E.
West, Juston W., Jenkintown, Pa. Navigation instrument. 2,593,509, Apr. 22.
Westberg, Johan E. H., Syracuse, N. Y. Expansible clamp arbor. 2,593,638, Apr. 22.
Western Railway Equipment Company, assignee: *See*— Pietzsch, Frank H.
Western Union Telegraph Company, The, assignee: *See*— Roddin, Daniel P., and Kline.
Westinghouse Electric Corporation, assignee: *See*— Ackermann, Otto. Anderson, William H., Shingler, and Boyd. Birckhead, Taylor A. Brahmer, Leland F., and Hanna. Brown, Myron J., and Lukaszewicz. Ellis, Belvin B., Horstman, and Burkhardt. Elsie, Harry D., and Weber. Fahoe, Harold H. Graham, Paul S., and Kennedy. Hartwig, Edward C. Hibbard, Lloyd J., Casanova, and Buchanan. Horton, William F. King, William D., and Wichester. Laidig, Alfred H. Miller, Coleman J. Nagel, George W. Rugg, Harold H. Smith, Homer E. Sonnemann, William K., and Riesz. Stadum, Clarence B. Taylor, John W., Jr. Trigg, Warren M. Volker, John F. Young, Douglass A., Lunas, and Lenehan.
Whitehouse, Ben, Milwaukee, Wis., assignor to Rodwell Engineering and Sales Company, Omaha, Nebr. Filter. 2,593,639, Apr. 22.
Whittaker, Norman: *See*— Walls, Leslie P., and Whittaker.
Whittington, Paul E., Arlington, Va. Apparatus for fluid treatment of textiles and clothing. 2,593,640, Apr. 22.
Wico Electric Company, assignee: *See*— Guernsey, Glen A., and Harmon.
Wiegand, Clyde E., Oakland, and O. Chamberlain, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission. Distributed coincidence circuit. 2,593,948, Apr. 22.
Wilcox, George H.: *See*— Eder, John F., and Wilcox.
Wilcoxson, Leslie S., Ridgewood, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y. Chemical furnace. 2,594,267, Apr. 22.
Wildhaber, Ernest, Brigton, N. Y. Friction drive. 2,593,510, Apr. 22.
Willard, Staples X.: *See*— Wells, Lloyd K., and Willard.
Willett, Harry B., Indianapolis, Ind. Platen-bed press for simulating cylinder press printing. 2,593,713, Apr. 22.
Williams, Albert J., Jr., assignor to Leeds and Northrup Company, Philadelphia, Pa. Motor control system. 2,593,950, Apr. 22.
Williams, Alfred O.: *See*— Burrows, Robert J., and Williams.
Williams, Frank B., Chicago, Ill. Stirring and scraping device. 2,593,949, Apr. 22.
Williams, William W.: *See*— Neumann, Fred W., and Williams.
Williamson, James T., Dunedin, New Zealand. Forming articles such as patty pans from paper or other thin material. 2,594,241, Apr. 22.
Willis, Grant N.: *See*— Clary, Frank A., Jr., and Willis.
Willis, Paul, Blue Island, Ill. Locomotive valve and valve gear, including separate intake and exhaust valves and separate actuating mechanisms therefor in a single valve chest. 2,593,951, Apr. 22.
Willoughby, Anthony H., Rickmansworth, England, assignor to General Electric Company. Operating circuit for electric discharge devices. 2,593,952, Apr. 22.
Wilson, Ancil A., San Bernardino, Calif. Tire deflation responsive switch. 2,593,824, Apr. 22.
Wilson, Bertram A., Etobicoke Township, York County, Ontario, Canada. Swivel-jointed wired electrical fixture. 2,594,242, Apr. 22.
Wilson, Harry C., Sherman Oaks, assignor to R. H. Clark, Los Angeles, Calif. Bit with interchangeable blade. 2,593,823, Apr. 22.
Winchester, Amos J., Jr.: *See*— King, William D., and Winchester.

Wingfoot Corporation, assignee: *See*— Enabnit, Robert S. Flory, Paul J. Flory, Paul J., and Leutner. Potter, Loren D., and Johnson. Rogers, Thomas H., Jr., and Ten Broeck. Snyder, James E., and Young. Taylor, Charles W.
Winkler, Alfred, Portland, Oreg. Sprinkler. 2,594,243, Apr. 22.
Winternitz, Paul F., New York, N. Y., assignor to Reaction Motors, Inc., Rockaway, N. J. Container for liquefied gases. 2,594,244, Apr. 22.
Witmyer, Robert B., Brownstown, Pa. Sounding wheeled toy. 2,593,511, Apr. 22.
Wolf, Frank J., Westfield, assignor to Merck & Co., Inc., Rahway, N. J. Preparation of crystalline dihydrostreptomycin hydrochloride. 2,594,245, Apr. 22.
Wolverton, Marcine P., assignor, by mesne assignments, to Royal Patent Corporation, Chicago, Ill. Puck obstructing device for shuffleboard games. 2,593,641, Apr. 22.
Wolverton, Marcine P., assignor to L. A. Durant, Chicago, Ill. Circuit controlling device. 2,593,642, Apr. 22.
Wood, Joseph D., Upper Darby, assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa. Quiet overload circuit breaker. 2,594,107, Apr. 22.
Woodbridge, Dwight E., Brooklyn, N. Y. Air drier. 2,594,108, Apr. 22.
Woolf, James W., Franklin, assignor to Joy Manufacturing Company, Pittsburgh, Pa. Switch control mechanism. 2,593,643, Apr. 22.
Worldsbest Industries, Inc., assignee: *See*— Bothe, Werner H. Bothe, Werner H., and Miller.
Wright, Esmond P. G., and W. J. Reynolds, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Alternating current telephone signaling system. 2,593,512, Apr. 22.
Wunderlich, William E., Muncie, Ind., assignor to Burton-Dixie Corporation, Chicago, Ill. Double nose coil spring. 2,593,953, Apr. 22.
Wyatt, De Witt H., Columbus, Ohio. Coal-burning cooking range. 2,594,109, Apr. 22.
Wynne, Charles H. L.: *See*— Chamberlain, Reginald H. D., Wynne, and Skellern.
Yale & Towne Manufacturing Company, The, assignee: *See*— Schroeder, Charles S.
Yefko, Edward: *See*— Lamb, Frank L., and Yefko.
Yelda, John O., Herculaneum, Mo., assignor, by mesne assignments, to Missouri Automatic Control Corporation. Stoker control. 2,593,644, Apr. 22.
Young, Douglass A., East Orange, L. J. Lunas, Cedar Grove, and B. E. Lenehan, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa. Electrical measuring instrument. 2,594,110, Apr. 22.
Young, Foster J.: *See*— Snyder, James E., and Young.
Zender, Justin: *See*— Cornwell, Ralph T. K., and Zender.

LIST OF PLANT INVENTIONS

Poinsettia plant. C. H. Hunkel. 1,085, Apr. 22.
Rose plant. R. L. Byrum. 1,083, Apr. 22.
Shasta daisy plant. C. McMullen. 1,084, Apr. 22.

LIST OF DESIGN INVENTIONS

Aerosol spray head. W. C. Harris. 166,536–7, Apr. 22.
Automobile gasoline door guard. M. B. Kramer. 166,541, Apr. 22.
Bottle. R. P. Kunett. 166,542, Apr. 22.
Bottle or similar article. J. D. Buckingham. 166,526, Apr. 22.
Bracelet or similar article. I. Daniels. 166,531, Apr. 22.
Brooch or the like. A. Philippe. 166,565–71, Apr. 22.
Cabinet, Ice-maker. R. Loewy. 166,545, Apr. 22.
Carpet or similar article. G. V. Uihlein. 166,581, Apr. 22.
Chair. W. K. Hutchason. 166,539, Apr. 22.
Chair. M. Pearlstine. 166,549–50, Apr. 22.
Chest and telephone stand, or similar article, Combined. G. E. Edler. 166,532, Apr. 22.
Container or similar article, Edible. M. B. Blish. 166,524, Apr. 22.
Control knob. R. G. Munroe. 166,546, Apr. 22.
Cooking and accessory unit for educational demonstration, Portable. J. Smey. 166,577, Apr. 22.
Dial or similar article, Watch and clock. G. Gault. 166,533, Apr. 22.
Diamond tool for dressing grinding wheels. J. Loecy, Jr. 166,544, Apr. 22.
Font of type. W. B. Conant. 166,529, Apr. 22.
Food product, Molded. L. Peters. 166,552–64, Apr. 22.
Footcap or the like, Lady's. R. P. Kantor. 166,540, Apr. 22.
Fryer, Deep-fat. A. D. Altemiller. 166,518, Apr. 22.
Gate, Baby. E. T. Freeman. 166,535, Apr. 22.
Gear operator. H. Allen. 166,517, Apr. 22.
Handle for trays. J. A. Potchen. 166,573–4, Apr. 22.
Holder, Toilet paper. M. J. Grady. 166,534, Apr. 22.
Knife or similar article. M. Bernstein. 166,521, Apr. 22.
Lavatory. C. J. Rodman. 166,576, Apr. 22.
Mobile repair shop. K. W. Couse. 166,530, Apr. 22.
Necklace or the like. A. Katz. 166,551, Apr. 22.
Pitcher. J. C. Byrd. 166,527, Apr. 22.
Plastic film, Flexible. D. Laska. 166,543, Apr. 22.
Plate or similar article, Dinner. E. M. Otis. 166,547, Apr. 22.
Polisher, Floor. J. Palma, Jr. 166,548, Apr. 22.
Polishing machine, Floor. H. J. Pond. 166,572, Apr. 22.
Poultry hanging shackle. R. S. Zebarth. 166,583, Apr. 22.
Purse, Sock. W. H. St. Thomas. 166,579, Apr. 22.
Receptacle, Multitray serving. J. M. Black. 166,523, Apr. 22.
Sewing machine. H. Rabezzana. 166,575, Apr. 22.
Shaker, Seasoning. C. O. Bliss. 166,525, Apr. 22.
Shoe. F. L. Ayers. 166,519–20, Apr. 22.
Table, Multipurpose. H. M. Thompson. 166,580, Apr. 22.
Table stand or similar article. H. D. Cole. 166,528, Apr. 22.
Temple for spectacles or the like. E. M. Splaine. 166,578, Apr. 22.
Thermostat housing. J. J. Hughes, Jr. 166,538, Apr. 22.
Tire. W. F. Billingsley. 166,522, Apr. 22.
Toy horse. R. H. Wendt. 166,582, Apr. 22.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Actuating apparatus for sound system. P. L. Karr. 2,594,178, Apr. 22.
Actuating means for forging presses. A. K. Nowak. 2,594,204, Apr. 22.
Adapter. B. Rozett. 2,594,220, Apr. 22.
Addition agent and mineral oil lubricant compositions containing the same. H. G. Smith and T. L. Cantrell. 2,593,496, Apr. 22.
Adjustable automatic fluid dispenser. B. D. Menkin and F. M. Darling. 2,593,591, Apr. 22.
Adjustable ring and thread gauge. J. Fichter. 2,594,143, Apr. 22.
Agricultural spraying apparatus, Tractor propelled. S. D. Pool. 2,593,696, Apr. 22.
Air bag or the like having frequency insulator therein. R. S. Enabnit. 2,594,139, Apr. 22.
Aircraft and automobile, Combined. E. M. Nye and A. Poisson. 2,593,785, Apr. 22.
Aircraft propeller synchronizer, Automatic. L. R. Philpott. 2,593,484, Apr. 22.
Air drier. D. E. Woodbridge. 2,594,108, Apr. 22.
Air purification device. H. F. Fruth. 2,593,869, Apr. 22.
Air swept crusher for fluorescent light tubes. A. J. Coon and W. W. Gruel. 2,593,657, Apr. 22.
Alkyllead compounds with calcium-lead alloys, Manufacture of. I. T. Krohn and H. Shapiro. 2,594,183, Apr. 22.
Alkyllead compounds with calcium-lead alloys, Manufacture of. H. Shapiro and I. T. Krohn. 2,594,225, Apr. 22.
α-amino-α,α-diphenyl-acetic acid, Preparation of. R. Duschinsky. 2,593,860, Apr. 22.
Alpha-mercapto-carboxylic acids, Producing. R. J. Coons and C. A. Todaro. 2,594,030, Apr. 22.
Aminoalkylamino isoquinoline compounds. R. A. Robinson. 2,593,798, Apr. 22.
Analytical rhombus. J. C. Palitto. 2,593,914, Apr. 22.
Analyzer for determining the fundamental frequency of a complex wave. E. Peterson. 2,593,695, Apr. 22.
Animal restraining device. L. E. Heidenbrand. 2,593,559, Apr. 22.
Animal trap. A. E. Kness. 2,594,182, Apr. 22.
Antenna coupling system. C. J. Miller. 2,594,055, Apr. 22.
Antenna matching section. A. S. Meier and P. D. Coleman. 2,593,474, Apr. 22.
Antenna, Rotatably adjustable. H. J. Berney. 2,594,115, Apr. 22.
Anticorrosion mounting for electric immersion heaters. A. P. Charbonneau. 2,594,255, Apr. 22.
Antiscald and proportioning valve. P. W. Sanford. 2,593,701, Apr. 22.
Antiskid tire chain. M. W. Pike. 2,594,068, Apr. 22.
Apparatus and method for transporting and dispensing liquefied gas. P. Peff. 2,593,916, Apr. 22.
Apparatus and method of closing an electric circuit by means of a secret combination changeable at will. P. G. Vidalis and N. J. Panoussiadis. 2,594,254, Apr. 22.
Apparatus for chilling webs. B. Offen. 2,593,595, Apr. 22.
Apparatus for cutting blocks. W. E. Burge. 2,593,726, Apr. 22.
Apparatus for determining pitch frequency in a complex wave. R. R. Riesz. 2,593,698, Apr. 22.
Apparatus for dispensing lubricant to the wheels or rollers of chain conveyers. C. C. S. Le Clair. 2,594,039, Apr. 22.
Apparatus for feeding concrete into molds. C. E. Glassen. 2,593,665, Apr. 22.
Apparatus for fluid treatment of textiles and clothing. P. E. Whittington. 2,593,640, Apr. 22.
Apparatus for forming tubes. F. C. Biggert, Jr., and H. H. Talbot. 2,593,835, Apr. 22.
Apparatus for gauging and for selecting articles according to size. W. F. Aller. 2,593,958, Apr. 22.
Apparatus for geophysical display. W. Roth and J. Ohman. 2,594,219, Apr. 22.
Apparatus for lifting and transporting wheeled vehicles. G. F. Fearfield and S. Parsons. 2,593,664, Apr. 22.
Apparatus for the treatment of filamentary materials, particularly with liquids. W. H. Guy. 2,593,555, Apr. 22.
Apparatus to lubricate rolling elements of chain conveyers or rolling stock. C. C. S. Le Clair. 2,594,041, Apr. 22.
Apparatus for making commutators. R. A. Sauer. 2,593,801, Apr. 22.
Apparatus for making organic fertilizer. E. W. Eweson. 2,593,867, Apr. 22.
Apparatus for making pierced forged hubs and the like. D. R. Cornell. 2,593,730, Apr. 22.
Apparatus for marking road surfaces. F. E. Ballew. 2,593,960, Apr. 22.
Apparatus for no-effort inhalation anesthesia. M. A. Loredo. 2,593,774, Apr. 22.
Apparatus for producing coated fabrics. C. S. Francis, Jr. 2,593,553, Apr. 22.
Apparatus for projecting rounds of ammunition. L. Motley. 2,594,199, Apr. 22.
Apparatus for recovery of finely divided particles. J. Beam. 2,593,718, Apr. 22.
Apparatus for testing materials. C. N. Kimball, W. R. Lewis, and H. A. Strecker. 2,593,766, Apr. 22.
Apparatus for testing materials. F. W. Stein. 2,593,807, Apr. 22.
Apparatus for the acceleration of electrons. H. B. G. Casimir. 2,593,845, Apr. 22.
Apparatus for the manufacture of glass articles. A. H. Laidig. 2,593,771, Apr. 22.
Applying an atomized hydrocarbon mixture to contact material during passage thereof through a reaction zone. H. G. Shimp. 2,593,495, Apr. 22.
Armature coil lead arrangement for reducing coronas. J. L. Kuehlthau. 2,593,900, Apr. 22.
Aromatic linear polyesters, Preparation of. P. J. Flory and F. S. Leutner. 2,594,144, Apr. 22.
Artificial casting lure. F. B. Jones. 2,593,461, Apr. 22.
Artificial teeth. W. J. Vidaver. 2,593,815, Apr. 22.
Atomizer. A. J. Loepsinger. 2,594,045, Apr. 22.
Attachment for industrial trucks. S. Weiss. 2,593,820, Apr. 22.
Audio signal tone control. R. W. Sanders. 2,593,490, Apr. 22.
Automatic carriage puller for case balers. C. L. Walters. 2,593,636, Apr. 22.
Automatic electric time control. W. J. Ward. 2,594,103, Apr. 22.
Automatic farm gate. G. F. Gump. 2,593,876, Apr. 22.
Automatic frequency control system. A. C. Munster. 2,594,263, Apr. 22.
Automatic inserter for suturing clips. L. Vollmer. 2,594,102, Apr. 22.
Automatic obturator for the adduction of fluids. M. T. Tixhon and E. Laguesse. 2,593,938, Apr. 22.
Automatic reversing mechanism. E. Dawson. 2,593,416, Apr. 22.
Automobile body. R. C. Hoffman. 2,593,883, Apr. 22.
Automobile bumper attachable rack. A. P. Monteverde. 2,593,908, Apr. 22.
Automobile roof sleeping enclosure. G. O'Neill. 2,594,065, Apr. 22.
Awning or sunshield structure for automobile windows, Demountable. E. Weisker. 2,594,238, Apr. 22.
Bag: *See*—
Folded bag
Bag closure apparatus. R. E. Pierce. 2,594,207, Apr. 22.
Bale loader. W. E. Ryan. 2,594,221, Apr. 22.
Ball, Bowling. J. A. Juza. 2,593,565, Apr. 22.
Ball-point pen and cap. F. V. Silver. 2,594,083, Apr. 22.
Barrels, Making. W. E. Hamacher. 2,593,753, Apr. 22.
Barrette. N. L. Solomon and I. W. Schaef, Jr. 2,594,230, Apr. 22.
Basket, Folding. L. Greffe. 2,594,153, Apr. 22.
Bathtub curtain frame. N. Matos. 2,594,049, Apr. 22.
Battery voltage selector jumper board and terminal board for industrial truck chargers. G. Poehlmann. 2,594,069, Apr. 22.
Bead blank forming method and machine. A. C. Mason. 2,593,469, Apr. 22.
Bearing: *See*—
Thrust bearing.
Belt, Sanitary. E. V. Pitton. 2,593,791, Apr. 22.
Bin, Sanitary waste disposal. G. S. James. 2,593,455, Apr. 22.
Binary cycle power plant having a high melting point tertiary fluid for indirect heating. L. R. Biggs. 2,593,963, Apr. 22.
Bis (4-β-hydroxyalkoxyphenyl) sulfones and polyesters prepared therefrom. J. R. Caldwell. 2,593,411, Apr. 22.
Bit with interchangeable blade. H. C. Wilson. 2,593,823, Apr. 22.
Block-bisecting machine. M. R. Price. 2,593,606, Apr. 22.
Block molding machine, Straight line. C. K. Brown, Jr. 2,593,409, Apr. 22.

Board: *See*—
Foldable ironing board.
Body rest for viewing television. R. G. Stempel. 2,593,623, Apr. 22.
Bottle carrier. J. F. Eder and G. H. Wilcox. 2,593,861, Apr. 22.
Boundary layer energising means for annular diffusers. J. G. Lee. 2,594,042, Apr. 22.
Box and crate, Knockdown. C. H. McGrath and R. L. Webster. 2,593,779, Apr. 22.
Box or carton, Folding. D. Levkoff. 2,593,773, Apr. 22.
Box wall for looms. H. Hoeber. 2,594,170, Apr. 22.
Bracket or hanger, Garment receiving. F. R. Smith. 2,594,228, Apr. 22.
Brake: *See*—
Fishing reel brake.
Brake-holder control mechanism. G. A. Guernsey and K. A. Harmon. 2,594,155, Apr. 22.
Brassière. M. H. Thompson. 2,594,248, Apr. 22.
Brassière. A. E. Weatherly. 2,593,711, Apr. 22.
Brick unit form. H. J. Abreu. 2,593,954, Apr. 22.
Brush for tenderising meat, Hand. F. D. Johnson. 2,594,174, Apr. 22.
Brushing apparatus for burners. K. W. Reynolds. 2,593,920, Apr. 22.
Buffing wheel section. E. W. Hall. 2,593,672–3, Apr. 22.
Bumper. J. R. Maag. 2,593,586, Apr. 22.
Bunter for weft replenishing looms. G. C. Beatrice. 2,593,833, Apr. 22.
Burglar alarm for vehicles and the like. S. Moledzky. 2,594,196, Apr. 22.
Burner: *See*—
Oil-fired conversion burner. Submerged flame burner.
Burner with diverse air paths and fuel vaporizer, Liquid fuel. A. E. Clarke, A. K. North, K. H. Holliday and J. S. Clarke. 2,593,849, Apr. 22.
Cabinet for sound record disks. E. J. Slattery. 2,593,927, Apr. 22.
Canopy structure for attachment to trays. H. W. Moreland. 2,593,909, Apr. 22.
Car: *See*—
Reversing toy trolley car.
Car barricade or bulkhead. L. E. Pilot. 2,594,208, Apr. 22.
Car replacer. H. M. Alderman. 2,593,956, Apr. 22.
Carbon dioxide, Production of. R. Bridges. 2,593,530, Apr. 22.
Carbon electrodes from bituminous coal. F. L. Shea, Jr. 2,594,226, Apr. 22.
Carboxyl compounds, Manufacture of. H. J. Hagemeyer, Jr. 2,593,440, Apr. 22.
Carrier: *See*—
Bottle carrier.
Carton. W. P. Frankenstein. 2,593,430, Apr. 22.
Carton. R. F. McGinnis. 2,593,778, Apr. 22.
Carton feeding apparatus. P. J. Blackwell. 2,593,965, Apr. 22.
Carton, One-piece reinforced. R. Guyer. 2,594,156, Apr. 22.
Casing repairing device. C. C. Brown. 2,593,725, Apr. 22.
Casting bobber. C. R. Carpenter. 2,593,728, Apr. 22.
Casting rod. H. A. James. 2,593,885, Apr. 22.
Casting sheets of polymerized d-chloroacrylic acid esters. H. D. Anspon and F. E. Pschorr. 2,593,827, Apr. 22.
Cathode. J. M. Martinez. 2,594,047, Apr. 22.
Cell case machine. D. R. Vail and R. A. De Luca. 2,594,252, Apr. 22.
Cellular core for heat exchange units. A. G. Getz. 2,594,008, Apr. 22.
Cellular structures, Making. R. H. Robinson. 2,593,714, Apr. 22.
Centrifuge for separating cream from cold milk products. G. J. Streuynski. 2,593,934, Apr. 22.
Chain: *See*—
Antiskid tire chain.
Chair protector with bib feature, Child's. G. E. McKewen. 2,594,053, Apr. 22.
Chart advancing mechanism. W. J. Dorsam, L. A. Paine, and R. A. Road. 2,593,858.
Chart winding mechanism. W. J. Dorsam. 2,593,421, Apr. 22.
Chemical furnace. L. S. Wilcoxson. 2,594,267, Apr. 22.
Chicken and hog feeder. S. G. Harry. 2,593,879, Apr. 22.
Chronographic arrangement for electric stations. E. P. Masson. 2,594,048, Apr. 22.
Chuck mechanism. H. C. Johansen. 2,594,028, Apr. 22.
Circuit: *See*—
Distributed coincidence circuit.
Fluorescent lamp circuit.
Relay counting circuit.
Circuit breaker operating system. A. Thibaudat. 2,594,247, Apr. 22.
Circuit controlling device. M. P. Wolverton. 2,593,642, Apr. 22.
Circuit for electric discharge devices, Operating. A. H. Willoughby. 2,593,952, Apr. 22.
Clamp: *See*—
Electric line-up clamp.
Pivoted door supporting clamp.
Clamp arbor, Expansible. J. E. H. Westberg. 2,593,638, Apr. 22.
Clamping device for machine tools. O. von Zelewsky. 2,593,706, Apr. 22.
Clamping fixture, Three-way. A. V. McFerron and H. D. Myers. 2,594,052, Apr. 22.
Class of line indication in telephone systems. M. den Hertog and A. C. Berden. 2,593,419, Apr. 22.
Classifying system for pieces of solid material having unequal size. J. E. Evans. 2,593,425, Apr. 22.
Cleaner: *See*—
Smoking pipe cleaner.
Cleaning shrimp. S. A. Paoli. 2,594,205, Apr. 22.
Clip: *See*—
Gasket clip.
Clip retaining means for Garand rifles. R. G. Wallenhorst. 2,594,237, Apr. 22.
Clip support for toothbrushes, Adjustable. N. A. Oscher. 2,593,913, Apr. 22.
Clock setting mechanism. M. Weber. 2,594,106, Apr. 22.
Closed system hydraulic pump. C. J. Coberly. 2,593,729, Apr. 22.
Closure for envelopes, Clasp type. G. H. Matthiesen. 2,594,050, Apr. 22.
Clutch: *See*—
Fluid operated clutch.
Coagulating aqueous dispersions of polytetrafluoroethylene. J. F. Lontz. 2,593,583, Apr. 22.
Code signal transmission system. C. Reverchon. 2,594,071, Apr. 22.
Coffee roasting apparatus, Smokeless. E. Chalupa. 2,593,983, Apr. 22.
Coin or token discharge mechanism for mailable record magazines. F. Krahulec. 2,593,572, Apr. 22.
Colored glass fiber product and producing the same. J. H. Waggoner. 2,593,817–18, Apr. 22.
Coloring eggs, Method and composition for. H. F. Kamp. 2,593,566, Apr. 22.
Combination hinge and latch means for gates or the like. J. R. De Barbe. 2,593,545, Apr. 22.
Compass, Vehicle. A. G. Galbois. 2,594,148, Apr. 22.
Compensator. R. A. Lee. 2,593,902, Apr. 22.
Composite articles, Manufacture of. H. Z. Gora. 2,593,668, Apr. 22.
Composition comprising ethyl cellulose and a fatty oil acid modified alkyd resin. H. Burrell and P. M. Clark. 2,593,976, Apr. 22.
Condensate disposal system for refrigerators. C. G. Robbins. 2,594,073, Apr. 22.
Condensates of rosin with carbocyclic unsaturated hydrocarbons. A. L. Rummelsburg. 2,593,613, Apr. 22.
Conductivity controlled dispenser. K. Albrecht. 2,593,825, Apr. 22.
Connecting device for wave guides. M. Jouguet. 2,594,031, Apr. 22.
Connector: *See*—
Electrical connector.
Shielded electrical connector.
Construction of paneled walls for buildings. C. E. Kenney. 2,593,891, Apr. 22.
Container: *See*—
Gasoline container.
Lamp container.
Powder container.
Shipping container.
Container for liquefied gases. P. F. Winternitz. 2,594,244, Apr. 22.
Container with individual inscription. S. H. Born. 2,593,966, Apr. 22.
Control circuits. E. C. Hartwig. 2,594,016, Apr. 22.
Control means. W. Pool and W. I. Taylor. 2,593,602, Apr. 22.
Control system. A. J. Hornfeck. 2,593,562, Apr. 22.
Control system for dynamoelectric machine utilizing a magnetically controlled electric valve. A. C. Halter. 2,594,015, Apr. 22.
Control system with droop correction. E. T. Davis and W. Clark, Jr. 2,594,133, Apr. 22.
Conveyer drive. C. Matthews and H. M. Wenger. 2,593,470, Apr. 22.
Conveyer for gravity conveyer systems, Booster. A. G. Rose. 2,593,699, Apr. 22.
Conveyer skirt and apron holder. R. E. Roberts. 2,593,610, Apr. 22.
Cooling apparatus for use with aero or other engines. C. L. Cowdrey and K. H. Greenly. 2,593,541, Apr. 22.
Cooling hot gaseous suspensions of carbon black. M. R. Howell. 2,594,171, Apr. 22.
Cording attachment for sewing machines. J. C. McIntyre. 2,593,589, Apr. 22.
Cotter pin puller. M. A. Sweat. 2,593,935, Apr. 22.
Cotton picker spindle lubricating and moistening system. C. R. Hagen and C. A. Kallgren. 2,593,671, Apr. 22.
Cotton seed material for solvent-extraction and processes for preparation and solvent-extraction of cotton seed materials, Prepared. M. Bonotto. 2,594,117, Apr. 22.
Counterpoise. J. V. Fill. 2,593,427, Apr. 22.
Coupling: *See*—
Flexible coupling.
Coupling pin. J. V. Honeycutt, J. Platis and J. A. Marchand. 2,593,453, Apr. 22.
Cover for rotary brush sweepers. H. O. Beyer and F. M. Bauman. 2,594,116, Apr. 22.
Crane, Truck mounted. S. Schlein. 2,594,076, Apr. 22.
Crank driving mechanism. L. L. Hercik. 2,593,882, Apr. 22.

Crate disassembling and salvaging machine. E. E. Cannon. 2,593,843, Apr. 22.
Creased sheet metal panel and forming and applying such panels to frame structures. L. A. Daines. 2,594,131, Apr. 22.
Crib actuating mechanism. W. J. McNabb and W. R. Cochrane. 2,593,590, Apr. 22.
Crossbar tandem office for step-by-step telephone areas. W. T. Haines and J. B. Newsom. 2,594,014, Apr. 22.
Crystalline dihydrostreptomycin hydrochloride, Preparation of. F. J. Wolf. 2,594,245, Apr. 22.
Crystallizing apparatus. H. H. Feldstein and H. R. Kilby. 2,594,142, Apr. 22.
Current distribution and control unit. R. P. Ballou. 2,593,961, Apr. 22.
Current supply apparatus. E. W. Holman. 2,594,019, Apr. 22.
Cutter: *See*—
Utility cutter.
Cyclic monoolefins, Production of. H. Heinemann. 2,593,446, Apr. 22.
Dehydrochlorination of polychloroethanes. H. W. Hill and E. L. Dance. 2,593,451, Apr. 22.
Δ^1-Pyrrolinyl compounds and derivatives thereof. J. W. Copenhaver. 2,593,853, Apr. 22.
Detection and quantitative determination of halogenated hydrocarbons in atmosphere. G. S. Haines and F. D. Heindel. 2,593,878, Apr. 22.
Detergent composition. C. B. Durgin. 2,594,257–8.
Determination of moisture in gases. C. B. Hayworth. 2,594,163, Apr. 22.
Device for carbonating and dispensing beverages. P. Kollsman. 2,593,770, Apr. 22.
Device for color projection of invisible rays. E. E. Sheldon. 2,593,925, Apr. 22.
Device for controlling the filling of containers. R. E. Fowler. 2,594,146, Apr. 22.
Device for milling keyway slots. L. W. McClelland. 2,593,777, Apr. 22.
Diazotype photoprinting material. S. R. Buc. 2,593,839, Apr. 22.
Diazotypes containing a condensation product of dicyandiamide with formaldehyde and a salt of ammonia or an aromatic amine. F. W. Neumann and W. W. Williams. 2,593,911, Apr. 22.
Dielectric heating unit. W. H. Anderson, D. S. Shingler, and B. Boyd. 2,593,959, Apr. 22.
Dihalo-alkenyl alkenoates. E. C. Ladd. 2,594,184, Apr. 22.
Dimensionally stable diazotype photographic film and making it. S. C. Slifkin. 2,593,928, Apr. 22.
Discrimination of subscriber's line condition. M. den Hertog. 2,593,418, Apr. 22.
Dispenser: *See*—
Adjustable automatic fluid dispenser.
Conductivity controlled dispenser.
Dispenser and penetrable cartridge therefor, Aerosol. M. L. Folkman. 2,593,552, Apr. 22.
Dispensing attachment for containers. J. D. Schofield. 2,593,803, Apr. 22.
Display device, Counter. A. F. Reilly. 2,593,697, Apr. 22.
Distant reading liquid reservoir gauge. N. Marcus. 2,593,587, Apr. 22.
Distributed coincidence circuit. C. E. Wiegand and O. Chamberlain. 2,593,948, Apr. 22.
Distributor. S. D., J. C., and D. A. Alley. 2,593,516, Apr. 22.
Diving apparatus. J. Y. Cousteau. 2,593,988, Apr. 22.
Door handle mounting. G. V. Jakeway. 2,593,677, Apr. 22.
Door latch. N. Kulbersh. 2,593,573, Apr. 22.
Door operator. F. J. Warner. 2,593,710, Apr. 22.
Door with closing and protecting assembly. D. Bailey. 2,593,403, Apr. 22.
Double nose coil spring. W. E. Wunderlich. 2,593,953, Apr. 22.
Dough mixer with dough gripping and refrigerated wall. M. A. Sticelber. 2,593,705, Apr. 22.
Draft control. W. B. Stephenson. 2,593,808, Apr. 22.
Drawer front shaping and grooving machine. F. H. Gillespie. 2,593,745, Apr. 22.
Drawing frame assembly. R. B. Newton. 2,593,478, Apr. 22.
Drier: *See*—
Air drier.
Drilling apparatus. H. H. Vandersee. 2,594,098, Apr. 22.
Driving mechanism for mining machines. M. G. Miller. 2,594,195, Apr. 22.
Drop leaf support construction for a table or the like. H. Howe. 2,594,262, Apr. 22.
Dump body tilting mechanism. C. E. Margala. 2,593,776, Apr. 22.
Duplicating apparatus. H. P. Kell. 2,594,179, Apr. 22.
Dyestuffs and making same. D. A. Berry. 2,593,406, Apr. 22.
Dynamoelectric machine balanced rotor. H. M. Norman. 2,594,203, Apr. 22.
Dynamoelectric machine with stator core secured in yoke by welded studs. J. J. De Windt and E. C. George. 2,593,857, Apr. 22.
Earpiece. E. A. Kindel. 2,593,892, Apr. 22.
Earth auger with spirally arranged removable cutting bits. F. E. Henning. 2,594,261, Apr. 22.
Earth leveling apparatus, Portable. O. R. Heavilin. 2,593,880, Apr. 22.
Electric circuit timing switch. C. J. Cadwell and F. M. Adamson. 2,593,727, Apr. 22.
Electric discharge tube. A. H. Reeves. 2,593,486, Apr. 22.
Electric line-up clamp. B. V. Elliott. 2,594,000, Apr. 22.
Electric power system. J. M. Pestarini. 2,593,482–3, Apr. 22.
Electric rocker switch. W. H. Gilliland. 2,593,436, Apr. 22.
Electrical apparatus. A. W. Albrecht. 2,594,111, Apr. 22.
Electrical apparatus. E. J. Mastney. 2,594,190, Apr. 22.
Electrical apparatus using metalized circuits and components therefor. T. Nieter. 2,593,479, Apr. 22.
Electrical capacitor and foil therefor. H. Arledter and R. Engelhardt. 2,593,829, Apr. 22.
Electrical connector. E. R. Capita. 2,593,981, Apr. 22.
Electrically heated apparatus. C. E. Weller. 2,593,947, Apr. 22.
Electrically operated liquid level indicator. J. R. McKnight, Jr. 2,593,473, Apr. 22.
Electrolytic polishing of metals. P. A. Charlesworth. 2,594,124, Apr. 22.
Electrolytic production of aluminum. L. Ferrand. 2,593,741, Apr. 22.
Electromagnetically operated bell jingler. F. Pettit. 2,593,917, Apr. 22.
Electronic indicator. D. L. Elam. 2,594,138, Apr. 22.
Electronic marker for cathode ray indicator tubes. R. R. Scoville. 2,594,078, Apr. 22.
Electronic spectroscope. A. C. Schroeder and G. C. Saiklai. 2,593,616, Apr. 22.
Electronic synchronising system. F. A. Hester. 2,593,450, Apr. 22.
Electroosmotic apparatus. F. Pavelka. 2,593,915, Apr. 22.
Elevator or jack, Hydraulic. R. Lozano y Garcia de Vinuesa. 2,593,903, Apr. 22.
Emergency release mechanism for exit doors. J. H. Vander Veer. 2,594,253, Apr. 22.
Engine: *See*—
Gas engine.
Engine fuel injection. P. Kollsman. 2,593,769, Apr. 22.
Engine with resonating combustion chambers, Gas turbine. L. A. J. Bauger. 2,593,523, Apr. 22.
Eraser for electric typewriters, Power-operated. M. M. Alden. 2,593,515, Apr. 22.
Expander device. A. R. Hedberg. 2,594,164, Apr. 22.
Explosion-proof dynamoelectric machine. H. D. Else and P. J. Weber. 2,594,003, Apr. 22.
Extractor: *See*—
Small tree and plant extractor.
Facial iron and vibrator. M. Grunwald. 2,593,875, Apr. 22.
Fastener: *See*—
Quick detachable toilet hinge post fastener.
Fastener having clamping head. O. J. Poupitch. 2,594,211, Apr. 22.
Fastening means for the ends of spring members used in furniture and the like. A. M. Bank. 2,593,831, Apr. 22.
Fatty acid-alkoxypolyglycol aliphatic amine combinations useful as textile surface agents. A. A. Cook and I. Sapers. 2,593,413, Apr. 22.
Fatty acrylate-styrene copolymers. S. A. Harrison. 2,593,444, Apr. 22.
Feeder: *See*—
Chicken and hog feeder.
Glass feeder.
Feeder for hay baling machines. F. Bolton, Sr. 2,593,721, Apr. 22.
Feeding and cutting means for forming fasteners. A. and R. Adler. 2,593,715, Apr. 22.
Feeding and stacking means for address printing plates. H. Hennink. 2,594,166, Apr. 22.
Feeding device for pliable sheet material. R. E. J. Nordquist. 2,593,480, Apr. 22.
Feeding device, Infant's. S. Baracate. 2,594,114, Apr. 22.
Filaments, Producing. W. L. J. de Nie and G. E. Rumscheidt. 2,593,397, Apr. 22.
Filling fitting. L. K. Wells and S. X. Willard. 2,593,712, Apr. 22.
Filter: *See*—
Ultrahigh-frequency filter.
Filter. T. B. Walker. 2,593,707, Apr. 22.
Filter. B. Whitehouse. 2,593,639, Apr. 22.
Filter unit, Concentric. L. H. De Haven. 2,593,855, Apr. 22.
Fireproofing compositions. J. J. Rakos. 2,593,400, Apr. 22.
Fish bait, Artificial. A. L. Nelson. 2,593,476, Apr. 22.
Fishline dobber, Adjustable. J. Bechik. 2,593,524, Apr. 22.
Fish lure. L. L. Reckler. 2,593,792, Apr. 22.
Fish lure and constructing same. T. H. Riner. 2,594,264, Apr. 22.
Fishing device. R. E. Allen. 2,593,716, Apr. 22.
Fishing device, Semiautomatic. R. Deskin and C. W. Savitz. 2,593,995, Apr. 22.

Fishing line hook protector. N. Granger. 2,594,011, Apr. 22.
Fishing lure. R. C. Lauterwasser. 2,594,038, Apr. 22.
Fishing reel. J. M. Goldberg. 2,593,748–9, Apr. 22.
Fishing reel. E. Rosner. 2,593,700, Apr. 22.
Fishing reel brake. I. W. Gohde. 2,593,872, Apr. 22.
Fishing reel lock. M. C. Godfrey. 2,593,747, Apr. 22.
Fishing rod holder. J. C. Mitchell. 2,593,783, Apr. 22.
Fishing tool. C. A. Dean. 2,593,994, Apr. 22.
Fixing photograph on glass. L. R. D. Beck. 2,593,396, Apr. 22.
Flame control apparatus. G. W. Nagel. 2,594,059, Apr. 22.
Flashlight having separable casing parts and trigger operated switch, Pistol type. R. E. Van Vliet and C. A. Lesoine. 2,593,942, Apr. 22.
Flashlight structure. C. E. Nyberg. 2,593,784, Apr. 22.
Flexible coupling. E. Hagenlocher. 2,593,877, Apr. 22.
Flexible key form for forming recesses in concrete structures. R. M. James. 2,593,456, Apr. 22.
Float and line retriever. F. J. Busher. 2,594,120, Apr. 22.
Flower mounting. A. A. Robbins. 2,593,797, Apr. 22.
Fluid control valve. W. L. Harbaugh. 2,593,558, Apr. 22.
Fluid flow sight glass. J. Askin. 2,594,113, Apr. 22.
Fluid leakage gauging device. W. F. Aller. 2,593,957, Apr. 22.
Fluid operated clutch. C. F. Ball. 2,593,521, Apr. 22.
Fluorescent lamp circuit. L. G. Legorreta, E. Posada, and F. Camarena. 2,593,576, Apr. 22.
Focusing coil for cathode-ray tubes. B. C. Van Gilder. 2,594,099, Apr. 22.
Foldable ironing board. R. M. Cater. 2,594,123, Apr. 22.
Foldable serving table. B. Mayer. 2,593,471, Apr. 22.
Folded bag. A. G. F. Rambold. 2,593,608, Apr. 22.
Foot conditioning apparatus. A. Hyde. 2,594,024, Apr. 22.
Force measuring device of the diaphragm type provided with a valve for automatically applying a balancing pressure to the diaphragm. A. A. Markson. 2,593,906, Apr. 22.
Forced air flow air-heating furnace. A. J. Horn. 2,593,759, Apr. 22.
Forming articles such as patty pans from paper or other thin material. J. T. Williamson. 2,594,241, Apr. 22.
Forming sheet metal with low-melting dies. F. A. Klemach. 2,593,571, Apr. 22.
Four-speed countershaft and planetary transmission. C. L. Swift. 2,593,629, Apr. 22.
Frame: *See*—
  Bathtub curtain frame. Spectacle frame.
Frame structure for hay balers. J. B. Kelley, Jr. 2,593,569, Apr. 22.
Freight handling equipment. E. C. Seward. 2,593,494, Apr. 22.
Friction drive. E. Wildhaber. 2,593,510, Apr. 22.
Friction grip lug strap support. W. Herron. 2,593,754, Apr. 22.
Frier, French. L. E. Finch. 2,593,549, Apr. 22.
Frog making machine. N. E. Branson. 2,594,119, Apr. 22.
Fuel burner control system and apparatus therefor, Electrical. F. B. Aubert. 2,593,518, Apr. 22.
Fuel injection pump. N. Fodor. 2,593,551, Apr. 22.
Fuel metering and airscrew pitch control mechanism. R. H. D. Chamberlin, C. H. L. Wynne, and J. Skellern. 2,593,536, Apr. 22.
Fuel pump. B. G. Parsons. 2,593,788, Apr. 22.
Furnace: *See*—
  Chemical furnace.
  Forced air flow air-heating furnace.
Furnace tilt lift door and seal. L. S. Longenecker. 2,594,188, Apr. 22.
Fuse. J. B. MacLean. 2,593,775, Apr. 22.
Fuse valve. H. E. Rose. 2,593,612, Apr. 22.
Game apparatus for chance-selected indications. C. Tognetti. 2,593,631, Apr. 22.
Game device, Prize dispensing target. S. P. Hitchings. 2,593,756, Apr. 22.
Game, Rotating disk automatic Lotto. W. A. Hanf. 2,594,159, Apr. 22.
Garbage disposal apparatus. P. V. McNamara and R. E. Nicholson. 2,594,054, Apr. 22.
Garment. L. L. Keefer. 2,594,032, Apr. 22.
Garment, Adjustable foundation. G. A. Barcley. 2,593,832, Apr. 22.
Garment construction. A. R. Fitch. 2,594,259, Apr. 22.
Gas burner with flame retention ports. F. Todd. 2,594,094, Apr. 22.
Gas engine. C. H. Schowalter. 2,594,224, Apr. 22.
Gas filled electric discharge device. C. H. Foulkes. 2,593,429, Apr. 22.
Gas scrubbing device. W. R. Edwards. 2,593,548, Apr. 22.
Gaseous curtain for ventilating exhaust. C. B. Schneible. 2,593,702, Apr. 22.
Gasket clip. A. J. Aukers and R. A. Church. 2,593,648, Apr. 22.
Gasoline container. C. W. Taylor. 2,594,235, Apr. 22.
Gate: *See*—
  Automatic farm gate. Sluice gate.
Gate control, Automatic. J. V. L. Kemp. 2,594,033, Apr. 22.
Gate latch. L. E. Heidenbrand. 2,593,560, Apr. 22.
Gauge: *See*—
  Adjustable ring and thread gauge. Distant reading liquid reservoir gauge.
Gauge and fixture set, Combination. C. A. Comstock. 2,593,986, Apr. 22.
Gauging device. L. J. Schulze. 2,594,077, Apr. 22.
Gauging device for checking axis relationship. L. J. Mahlmeister. 2,594,046, Apr. 22.
Glass feeder. R. N. Sundstrom. 2,593,499, Apr. 22.
Glass feeder and feeding mold charges. J. D. Clark and G. J. Montopoli. 2,594,125, Apr. 22.
Glass tube bending apparatus. P. A. Dell. 2,593,854, Apr. 22.
Gluing machine, Automatic. R. F. Onsrud. 2,593,691, Apr. 22.
Gluten hydrolysis. C. L. Royal. 2,593,487, Apr. 22.
Gopher trap. P. C. Vigness. 2,593,816, Apr. 22.
Grate, Stove top. M. Resek. 2,594,215, Apr. 22.
Grave marker. O. A. Marsh. 2,593,468, Apr. 22.
Grill. R. D. Miller. 2,593,592, Apr. 22.
Grinding wheel. A. J. Doermann. 2,594,137, Apr. 22.
Gun perforator. L. Spencer. 2,593,620, Apr. 22.
Gunrack. J. P. Aitchison and A. C. Bonkemeyer. 2,593,402, Apr. 22.
Gun rammer. G. A. Chadwick and P. W. Burk. 2,593,412, Apr. 22.
Gyratory crusher. R. R. Shafter. 2,594,080, Apr. 22.
Hair curler. S. Solop. 2,593,929, Apr. 22.
Hair curling device. W. H. H. Davis and F. V. Schleimer. 2,593,544, Apr. 22.
Hair trimming attachment for shears. A. E. La Crosse. 2,593,574, Apr. 22.
Handgrip operated switch. W. M. Royer. 2,593,488, Apr. 22.
Handle connection. A. Rhodes. 2,593,609, Apr. 22.
Handle-container for different size hexagonal wrenches. R. G. Arey. 2,593,828, Apr. 22.
Handling glass batch, Method and apparatus for. M. M. Cannon, Jr. 2,593,535, Apr. 22.
Hanger: *See*—
  Spring hanger.
Harness, Body. L. Twyman. 2,594,097, Apr. 22.
Harness frame for looms. L. M. Dorman. 2,593,997, Apr. 22.
Harp for electric light lamp shades, Adjustable. J. Smurik. 2,593,704, Apr. 22.
Hasp. W. O. Kirkpatrick. 2,593,570, Apr. 22.
Hay drying machine. B. C. Adams. 2,593,401, Apr. 22.
Heated intake component for gas turbine engines. W. Boyd. 2,594,118, Apr. 22.
Heater: *See*—
  Portable fan-type air heater.
Heating system. J. T. Norman. 2,594,063, Apr. 22.
Heating system for drinking fountains, Automatic. E. B. Johnson. 2,593,459, Apr. 22.
Heating system, Hollow floor. F. H. Edgerly. 2,593,424, Apr. 22.
Hoisting apparatus, Detachable. F. E. Kaunitz, Jr. 2,593,764, Apr. 22.
Holder: *See*—
  Conveyer skirt and apron holder. Soap cake holder.
  Fishing rod holder. Spring coin holder.
  Key holder. Twine holder.
  Paper holder. Work holder.
Holder for drinking glasses. C. G. Fowler. 2,593,868, Apr. 22.
Holder for flower baskets or containers, Portable. A. B. Levitt. 2,594,187, Apr. 22.
Holder for neckties, Slide. D. B. Hickman. 2,594,169, Apr. 22.
Hopper with bottom discharge opening and means for metering the passage of granular material through said opening into a delivery conduit. I. M. Ridley. 2,594,072, Apr. 22.
Horizontal return fire tube boiler having a central furnace with double outlet. A. S. Weldy. 2,593,946, Apr. 22.
Horn, Dual tone reed. H. Hahn. 2,594,013, Apr. 22.
Hose attachment for faucet outlets and the like. C. L. Hyser. 2,593,454, Apr. 22.
Hydraulic cement composition and indurating composition therefor. E. W. Scripture, Jr. 2,593,492, Apr. 22.
Hydroxyalkyl amides of acrylic acids, Production of. G. D. Jones. 2,593,888, Apr. 22.
Hygrometer. C. H. Hess. 2,593,755, Apr. 22.
Ice-making. W. M. Grandia. 2,593,874, Apr. 22.
Igneous electrolysis cell. J. Grolée. 2,593,751, Apr. 22.
Ignition device. F. Cajumi. 2,593,978, Apr. 22.
Illuminated panel. C. N. Shlenker. 2,594,081, Apr. 22.
Illuminating the dial of a manually set automatic transmission. E. J. Sullivan. 2,593,810, Apr. 22.
Impact drill apparatus. H. P. Burrell. 2,593,532, Apr. 22.
Implement attaching structure. L. H. Kaupke. 2,593,679, Apr. 22.
Implement attaching structure for tractors. J. R. Orelind. 2,593,692, Apr. 22.
Impulse group keying system. A. A. Varela. 2,593,504, Apr. 22.
Indicating handgrip. V. Calabrese. 2,594,121, Apr. 22.

Indicating the maximum of a plurality of conditions. K. J. Knudsen. 2,593,897, Apr. 22.
Indicator: *See*—
  Electrically operated liquid level indicator. Electronic indicator.
Inducing growth of dormant woody plants. F. E. Denny. 2,594,135, Apr. 22.
Infrared ray butter softener. E. F. Hubacker. 2,594,023, Apr. 22.
Instrument, Boiler efficiency. P. S. Dickey. 2,593,659, Apr. 22.
Instrument, Boiler efficiency. P. S. Dickey. 2,593,661, Apr. 22.
Instrument, Drafting. B. Mendes. 2,594,193, Apr. 22.
Instrument, Electrical measuring. D. A. Young, L. J. Lunas, and B. E. Lenehan. 2,594,110, Apr. 22.
Instrument for measuring efficiency of turbogenerators. P. S. Dickey. 2,593,660, Apr. 22.
Instrument, Navigation. J. W. West. 2,593,509, Apr. 22.
Instrument, Quotient or product metering and registering. H. G. Strong. 2,593,628, Apr. 22.
Insulated electrical conductor. P. Robinson and C. C. Reid. 2,593,922, Apr. 22.
Intake type unloader for compressors and the like. W. P. Dalrymple. 2,594,132, Apr. 22.
Inverted extrusion apparatus. E. F. Gibian. 2,594,009, Apr. 22.
Inverting apparatus. H. E. Stover. 2,593,627, Apr. 22.
Ion gauge mounting. C. B. Proudfoot. 2,594,212, Apr. 22.
Ironing board and iron holder, Combined. F. H. Tiller. 2,593,937, Apr. 22.
Jack: *See*—
  Lifting jack.
Jar pump having antidrip spout. W. A. Pruett. 2,593,607, Apr. 22.
Kettle, Heating. E. G. Kohn. 2,593,768, Apr. 22.
Key holder. J. I. Hager and E. W. Samford. 2,593,441, Apr. 22.
Key lock means for cash register control mechanism. M. A. Goodbar, A. J. Green, and H. O. Randall. 2,593,666, Apr. 22.
Kit for sorting cards. M. C. Nolan. 2,593,594, Apr. 22.
Knitting machine presser edge. J. H. Couillete. 2,594,128, Apr. 22.
Knurling machine. C. F. Jones. 2,593,887, Apr. 22.
Ladder. G. E. Reagle. 2,594,070, Apr. 22.
Laminated stretched film J. E. Snyder and F. J. Young. 2,594,229, Apr. 22.
Lamp and shelf, Combined wall. C. H. Johnson. 2,593,886, Apr. 22.
Lamp container. D. G. Mitchell. 2,593,689, Apr. 22.
Lamp support for insertion in tubular lamp stands. L. Rosenfeld. 2,594,074, Apr. 22.
Latch: *See*—
  Door latch. Gate latch.
Latch mechanism. R. J. Brandt. 2,593,971, Apr. 22.
Latch structure. H. R. Dickinson. 2,593,662, Apr. 22.
Leaf spring for spinning pipe. A. L. Stone. 2,593,498, Apr. 22.
Leash, Animal. J. M. Van Meter. 2,593,940, Apr. 22.
Lens mechanism for signal lamps, Movable. J. A. and E. Gearon. 2,594,150, Apr. 22.
Leveling bridge. W. H. Bothe. 2,593,722, Apr. 22.
Leveling bridge. W. H. Bothe and H. J. Miller. 2,593,723, Apr. 22.
Leveling device for mine hoists and other elevators. J. E. Carlsson, F. Landau, and E. Törnros. 2,593,844, Apr. 22.
Lifting jack. A. Niederhauser. 2,594,270, Apr. 22.
Light: *See*—
  Signal light.
Light fixture with removable light transmitting panel, Recessed. P. A. Jones. 2,593,513, Apr. 22.
Lightning arrester. O. Ackermann. 2,593,955, Apr. 22.
Linear sweep circuits. C. A. Washburn. 2,594,104, Apr. 22.
Liquid sampler. H. E. Baker. 2,593,830, Apr. 22.
Load-supporting attachment for tractors. J. R. Riewerts. 2,593,796, Apr. 22.
Loaded cartridge with frangible projectile. L. C. Weldin. 2,593,637, Apr. 22.
Loading mechanism for pneumatic guns. C. F. Lefever. 2,594,185, Apr. 22.
Localizer beacon system. S. B. Pickles and C. B. Watts, Jr. 2,593,485, Apr. 22.
Lock: *See*—
  Fishing reel lock.
Lock for automobile doors, Electrically controlled. J. Ginsko. 2,594,151, Apr. 22.
Locking gas valve. S. D. Feighner. 2,594,141, Apr. 22.
Locking knee joint for artificial limbs and orthopedic braces. C. V. Smith. 2,594,227, Apr. 22.
Locking pin. D. S. Weiss. 2,594,239, Apr. 22.
Locomotive valve and valve gear, including separate intake and exhaust valves and separate actuating mechanisms therefor in a single valve chest. P. Willis. 2,593,951, Apr. 22.
Loom filling feeler. K. E. Sanderson. 2,593,614, Apr. 22.
Lubricated plug valve. E. C. Bostock. 2,593,967, Apr. 22.
Lubricated valve. W. J. Bowan and F. Tratnik. 2,593,968, Apr. 22.
Lubricating apparatus. A. R. Burchsted. 2,593,841, Apr. 22.
Lubricator. A. Bray. 2,593,972, Apr. 22.

m-Phthalimidomethyl derivatives of aniline, nitrobenzene, and nuclear substitution products thereof. S. R. Buc. 2,593,840, Apr. 22.
Machine and method for manufacturing closures. H. Z. Gora. 2,593,439, Apr. 22.
Machine for feeding sheets from the top of a stack of stiff sheets. R. J. Van Schie. 2,593,814, Apr. 22.
Machine for measuring and dispensing variable volumes of liquids. J. Kahl and G. H. Muller. 2,593,889, Apr. 22.
Machine for use in the manufacture of footwear. J. Weber and T. P. Charnley. 2,593,945, Apr. 22.
Magazine structure for article dispensing apparatus. B. W. Fry. 2,594,147, Apr. 22.
Magnetic amplifier relay circuits. W. F. Horton. 2,594,022, Apr. 22.
Magnetic drag tachometer. J. H. Andresen, Jr. 2,593,646, Apr. 22.
Making freely flowable composition of two rubbers. A. J. Leydon. 2,593,681, Apr. 22.
Mandrel position adjustment means for pilgrim rolling mills. G. H. Larmon. 2,593,772, Apr. 22.
Manhole extension. H. Redman. 2,593,918, Apr. 22.
Manifold for molten material spray guns. M. A. Sandora and C. E. Freeman. 2,594,222, Apr. 22.
Mass polymerization of styrene at 285° C. H. F. Park. 2,593,399, Apr. 22.
Matrix for tire treads with lateral traction slits. A. Duerksen. 2,593,547, Apr. 22.
Mattress, Orthopedic. R. Johnson. 2,593,678, Apr. 22.
Mechanical control for water distributor. L. O. Keefer. 2,593,765, Apr. 22.
Mechanical lubrication of axle boxes. J. Bouvat-Martin. 2,593,654, Apr. 22.
Mechanism for utilising secondary movements arising on running vehicles. Z. Maar. 2,593,467, Apr. 22.
Metal foil perforator for capacitor winding machines. H. Dahl and S. T. Moreland. 2,593,993, Apr. 22.
Metal refining process. J. B. Wagstaff. 2,593,505, Apr. 22.
Metal sheets or plates, Producing. W. C. Johnson. 2,593,460, Apr. 22.
Meter box and cover therefor. G. G. Griffin. 2,594,012, Apr. 22.
Method and mechanism for raising vehicles. W. T. Walker. 2,593,635, Apr. 22.
Microscope with reflecting objective. A. Bouwers. 2,593,724, Apr. 22.
Milking plant. H. S. Palmer. 2,593,597, Apr. 22.
Mill for reducing metal stock. G. B. Coe. 2,594,126, Apr. 22.
Milling frangible material. F. Swinehart. 2,593,811, Apr. 22.
Mine shaft mucking apparatus. C. F. Osgood. 2,593,693, Apr. 22.
Mining machine head. C. E. Compton. 2,594,256, Apr. 22.
Minnow bucket. L. S. Huffman and A. B. Justin. 2,594,172, Apr. 22.
Mirror assembly, Reversible rearview. D. M. Morgenstern. 2,594,056, Apr. 22.
Mixing and coprecipitating a polysulfone resin latex with another latex. W. W. Crouch. 2,593,414, Apr. 22.
Mobile cement mixer drum drive. H. A. and G. H. Wagner. 2,594,286, Apr. 22.
Mobile form and transport for cast structures. R. G. Le Tourneau. 2,593,465, Apr. 22.
Molding articles. H. Z. Gora. 2,593,438, Apr. 22.
Molding nonmetallic powders. E. Walner. 2,593,507, Apr. 22.
Molding plastic articles, Method and apparatus for. H. Z. Gora. 2,593,667, Apr. 22.
Molding powders of metal character. E. Walner. 2,593,943, Apr. 22.
Motor and brake control. H. Broschke. 2,593,837, Apr. 22.
Motor control apparatus, Three-phase. F. M. Courtney and H. H. P. Lemmerman. 2,593,987, Apr. 22.
Motor control for fluid pressure systems. E. C. S. Clench. 2,593,537, Apr. 22.
Motor control system. A. J. Williams, Jr. 2,593,950, Apr. 22.
Motor drive for bicycles. S. P. Nemeth. 2,594,060, Apr. 22.
Motor speed control mechanism. H. Chireix. 2,593,656, Apr. 22.
Motor vehicle. M. H. Toncray and F. S. Spring. 2,593,632, Apr. 22.
Mounting: *See*—
  Door handle mounting. Ion gauge mounting.
  Flower mounting. Turret gun mounting.
Mounting stud for drawer pull handles. G. V. Jakeway. 2,594,027, Apr. 22.
Mouthpiece. E. Welch. 2,593,821, Apr. 22.
Mucilaginous materials from flaxseed. D. S. Bolley and R. H. McCormack. 2,593,528, Apr. 22.
Multiple unit fuel injection pump. N. Fodor. 2,593,550, Apr. 22.
Multivibrator. J. W. Taylor, Jr. 2,594,092, Apr. 22.
Nail or pin. E. P. Anstett. 2,593,647, Apr. 22.
Nailing machine. E. A. Verrinder and R. H. Heard. 2,594,100, Apr. 22.
Nipple or lubricant receiving device. C. C. S. Le Clair. 2,594,040, Apr. 22.
Nozzle, Oil burner. R. J. Ifield. 2,593,884, Apr. 22.

Nozzle pipe for use with aerial ladders. E. E. Robinson. 2,593,921, Apr. 22.
Nozzle, Variable area. W. S. Diehl. 2,593,420, Apr. 22.
Nut gathering machine. W. P. Stokes. 2,593,625, Apr. 22.
Oar assembly. A. R. Wendt and J. Kosten. 2,593,822, Apr. 22.
Oil-burning and control apparatus. W. H. Payne. 2,594,206, Apr. 22.
Oil-fired conversion burner. E. A. Norman, Jr. 2,594,062, Apr. 22.
Oil seal for engine starters. C. S. Metsger. 2,594,194, Apr. 22.
Opener and pour spout, Combined. J. K. M. Harrison. 2,594,161, Apr. 22.
Optical density comparator. D. M. Dolton and D. Smith. 2,593,996, Apr. 22.
Optical system, Image-inverting. M. Ludewig. 2,593,904, Apr. 22.
Oral applicator. H. J. Hofacker. 2,593,757, Apr. 22.
Organ, Electric. W. Hakkarinen. 2,593,442, Apr. 22.
Oscillator, Electronic. P. Cutler and K. F. Ross. 2,593,992, Apr. 22.
Oscillator, Frequency stabilized microwave. J. P. Kinzer. 2,593,463, Apr. 22.
Outdoor table and clothesline, Combination. E. S. Hannameyer. 2,594,158, Apr. 22.
Outrigger rod. J. T. Crandall. 2,593,989, Apr. 22.
Packing for rotating shafts. A. R. Trist. 2,593,939, Apr. 22.
Paper-covered wood veneeer, Producing. R. N. Ware, Jr., and R. Cannon. 2,593,708, Apr. 22.
Paper holder. R. V. Jonees. 2,593,762, Apr. 22.
Paper rewinding shaft, Collapsible. R. E. Torregrossa and R. D. Babington. 2,594,095, Apr. 22.
Parachute connector link. P. N. Hillesheim. 2,594,018, Apr. 22.
Paraformaldehyde, Production of. B. W. Greenwald and W. B. Hughes. 2,593,669, Apr. 22.
Parking coin depository. H. P. Compton. 2,593,985, Apr. 22.
Parting windshield wiper motor of the oscillating piston type. D. H. Stoltenberg. 2,593,626, Apr. 22.
Pen with porous writing nib and reservoir filled with absorbent material, Fountain. A. P. Patch. 2,593,599, Apr. 22.
Pencil sharpener. A. O. Basson. 2,593,649, Apr. 22.
Penicillin amides. D. E. Cooper. 2,593,852, Apr. 22.
Perfluorinated cyclohexyl carboxylic acid and cyclohexyl acetic acid and derivatives. A. R. Diesslin, E. A. Kauck, and J. H. Simons. 2,593,737, Apr. 22.
Phase discriminator. R. L. Campbell. 2,593,842, Apr. 22.
Phenol-formaldehyde condensation products and producing same. W. G. Simons. 2,593,926, Apr. 22.
Phloroglucinol derivatives. M. N. Huffman. 2,593,563, Apr. 22.
Phonograph. A. C. Ten Cate. 2,594,246, Apr. 22.
Phonograph pickup, Electrodynamic. K. F. Umpleby. 2,593,633, Apr. 22.
Photocell-filter combination. R. J. Cashman. 2,594,122, Apr. 22.
Photographic film containing hardened gelatin. M. T. Orinik. 2,593,912, Apr. 22.
Physiotherapy traction table. O. L. Hastings and F. H. Vaughn. 2,593,675, Apr. 22.
Piezoelectric crystal frequency discriminator. H. R. Summerhayes. 2,594,091, Apr. 22.
Pilot controlled gas pressure regulator. J. K. Hamilton. 2,593,557, Apr. 22.
Pilot operated valve. C. B. Ives. 2,593,564, Apr. 22.
Pin: *See*—
Coupling pin. Locking pin.
Pipe: *See*—
Smoker's pipe. Smoking pipe.
Pipe-cutting apparatus. F. H. Mathey. 2,594,191, Apr. 22.
Pivoted door supporting clamp. T. C. Tims. 2,594,249, Apr. 22.
Placer for concrete and the like, Portable. R. C. Hackley. 2,593,556, Apr. 22.
Planetary power transmission device. R. C. Strawn. 2,593,933, Apr. 22.
Plant for shaping asbestos cement. W. H. Rooksby. 2,593,611, Apr. 22.
Plastic binding machine. I. Spinner and H. W. Dahly. 2,593,805, Apr. 22.
Plastic indentification sleeve forming machine. F. Albrecht, C. M. Davison, and W. L. Lambdin, Jr. 2,593,514, Apr. 22.
Plastic sheet, Preparing a. R. R. Beckham. 2,593,405, Apr. 22.
Platen-bed press for simulating cylinder press printing. H. B. Willett. 2,593,713, Apr. 22.
Plating barrel. F. E. Newman. 2,594,061, Apr. 22.
Plug with blades having elements for piercing and clamping insulated cords, Electric. J. A. Galvao. 2,593,743, Apr. 22.
Plumbing trap and the like. L. Davis. 2,593,734, Apr. 22.
Pneumatic gun. W. S. Wells. 2,594,240, Apr. 22.
Pocket concealed placket construction. A. B. Rhoads and W. F. Van Amburg. 2,593,795, Apr. 22.
Polarized relay construction. W. K. Sonnemann and K. Riesz. 2,594,088, Apr. 22.
Polymerization of formaldehyde and recovery of paraformaldehyde. A. G. Eickmeyer. 2,593,862, Apr. 22.
Polymerization process. G. F. D'Alelio. 2,593,417, Apr. 22.
Port chamber wall construction with deposit retaining ledge for open hearth furnaces. R. E. Over. 2,593,481, Apr. 22.
Portable fan-type air heater. J. F. Volker. 2,594,101, Apr. 22.
Poultry feeding. D. Lewis. 2,593,577, Apr. 22.
Powder container. R. E. Thompson. 2,594,093, Apr. 22.
Power fuse and the like, High-voltage. H. H. Fahnoe. 2,593,426, Apr. 22.
Power-transmitting system for slush pumps or the like. C. M. O'Leary. 2,594,064, Apr. 22.
Prefabricated stair. G. W. Lyons. 2,593,683, Apr. 22.
Pressing device for garrison cap covers and the like. P. A. Loomis. 2,593,682, Apr. 22.
Pressure operated indicating apparatus. S. S. Di Maggio, Jr. 2,594,136, Apr. 22.
Pressure-relief apparatus. L. M. Goldsmith. 2,594,152, Apr. 22.
Prevention of rust. F. M. Watkins. 2,594,266, Apr. 22.
Primary cell. B. H. King. 2,593,893, Apr. 22.
Printing chase. C. L. Lance. 2,593,575, Apr. 22.
Printing fabrics with aryl sulfonhydrazides. J. A. Sprung and W. A. Schmidt. 2,593,930, Apr. 22.
Printing telegraph receiver. R. D. Salmon and F. J. L. Turner. 2,593,489, Apr. 22.
Producing oil wells, Method and apparatus for. R. Spearow. 2,593,497, Apr. 22.
Producing sheets of indefinite length composed of slitted wood veneer and a flexible backing. A. Elmendorf. 2,593,863, Apr. 22.
Projector, Magazine type slide. R. A. Hartley. 2,594,162, Apr. 22.
Proportioner resetting mechanism. G. J. Klopfenstein. 2,593,894, Apr. 22.
Propylene glycol solution of arsenic medicaments. E. A. H. Friedheim. 2,593,434, Apr. 22.
Protector: *See*—
Fishing line hook protector. Toe protector.
Protector for gas cylinder valves. J. V. Cammarato. 2,593,533, Apr. 22.
Puck obstructing device for shuffleboard games. M. P. Wolverton. 2,593,641, Apr. 22.
Puller: *See*—
Cotter pin puller.
Pump: *See*—
Closed system hydraulic pump. Multiple unit fuel injection pump.
Fuel pump.
Punching materials with screws and lodging same therein, Method and apparatus for. G. F. Wales. 2,593,506, Apr. 22.
Purification of carbon dioxide. W. Geisel. 2,594,269, Apr. 22.
Purifying gaseous carbon dioxide. W. Geisel. 2,594,268, Apr. 22.
Purifying solid saturated fatty acids containing unsaturated free fatty acids and other soluble impurities. L. G. Jenness. 2,593,458, Apr. 22.
Quick detachable toilet hinge post fastener. A. M. Campanelli. 2,593,534, Apr. 22.
Quiet overload circuit breaker. J. D. Wood. 2,594,107, Apr. 22.
Rack: *See*—
Automobile bumper attachable rack.
Rack attachment for securement to beds, Clothes. T. O. Keck. 2,593,567, Apr. 22.
Rack for paper stock, Padding. K. J. Dollahite. 2,593,738, Apr. 22.
Radio apparatus. H. E. Smith. 2,594,085, Apr. 22.
Radio buoy, Automatically operated. R. L. Freas. 2,593,432, Apr. 22.
Radio receiver selection system. R. O. Soffel. 2,594,087, Apr. 22.
Radio receiving set, Portable. M. Lichaw. 2,593,579, Apr. 22.
Railway car draft key retainer. F. H. Pietzsch. 2,593,790, Apr. 22.
Rake, Dump. H. J. McIntosh. 2,593,780, Apr. 22.
Range, Coal-burning cooking. D. H. Wyatt. 2,594,109, Apr. 22.
Reaction products of an N-acyl polyimide of a polycarboxylic acid with a polymer containing hydroxy or amino radicals. P. J. Flory. 2,594,145, Apr. 22.
Reading device for core orienting equipment. C. F. Johnson. 2,594,029, Apr. 22.
Reagent conditioning for electrostatic separation of minerals. F. Fraas. 2,593,431, Apr. 22.
Receptacle for cigarette ash trays, Closed. O. H. Bock. 2,593,836, Apr. 22.
Recorder, Electronic stress-strain. B. Schlachman. 2,593,493, Apr. 22.
Recorder with coin release mechanism, Mailable magazine type. A. C. Nielsen. 2,593,593, Apr. 22.

Recovering heat and chemicals from the residual liquor resulting from the digestion of cellulosic fibrous material. G. H. Tomlinson and G. H. Tomlinson, II. 2,593,503, Apr. 22.
Recovering selective solvents. W. V. Stearns. 2,593,931, Apr. 22.
Rectification apparatus. P. L. Kapitza. 2,593,763, Apr. 22.
Reducing ores without melting. B. M. S. Kalling. 2,593,398, Apr. 22.
Reducing the mercaptan content of petroleum distillates with a hydroperoxide. W. W. Johnstone. 2,593,761, Apr. 22.
Reel: *See*—
Fishing reel.
Reel chuck cradle for stranding machines. C. O. Bruestle. 2,593,838, Apr. 22.
Reel control system. W. D. King and A. J. Winchester, Jr. 2,594,035, Apr. 22.
Reforming hydrocarbon gases in the presence of a magnesia catalyst. C. S. Lynch. 2,593,584, Apr. 22.
Refrigeration. G. C. Demetrak. 2,593,736, Apr. 22.
Refrigerator having freezer and storage compartments with separate controls. A. E. Knapp. 2,594,036, Apr. 22.
Refrigerator, Two-decker dairy self-service. R. E. Pabst. 2,594,066, Apr. 22.
Refuse box cover construction. F. H. Stoner. 2,594,233, Apr. 22.
Regenerated cellulose pellets. J. J. O'Neill, Jr., and E. P. Reichardt. 2,593,786, Apr. 22.
Regulator: *See*—
Pilot controlled gas pressure regulator.
Regulator for supercharged aircraft engines, Fuel flow. D. Schmitt. 2,593,802, Apr. 22.
Relay counting circuit. E. R. Liberg. 2,593,578, Apr. 22.
Remote control device. G. Briggs. 2,593,973, Apr. 22.
Removable letter display sign. W. I. Staaf. 2,593,621, Apr. 22.
Removable partial denture. B. Müller. 2,594,200, Apr. 22.
Removing mercaptans from hydrocarbons. R. H. Cool. 2,593,851, Apr. 22.
Reproducing the human foot or any of the toes thereof by means of a preshaped flexible form impregnated with material capable of setting hard upon the application of moisture. D. Friedman. 2,593,742, Apr. 22.
Resilient wheel. R. J. Burrows and A. O. Williams. 2,593,977, Apr. 22.
Resin bonded cord. L. D. Potter and B. P. Johnson. 2,594,210, Apr. 22.
Responding to an extremme of a plurality of conditions. K. J. Knudsen. 2,593,898, Apr. 22.
Retaining packages in stacked relationship. A. G. Dupuis. 2,593,998, Apr. 22.
Reversing toy trolley car. E. T. Van Sciver. 2,593,941, Apr. 22.
Rich-mixture aviation fuel, Preparing. W. A. Herbst and W. C. Howell, Jr. 2,593,561, Apr. 22.
Rod: *See*—
Casting rod. Outrigger rod.
Rod handling device. E. D. Dahlman. 2,593,732, Apr. 22.
Roller support for sliding doors. H. G. Myhr. 2,594,058, Apr. 22.
Roller trip for printing machines. M. Ras. 2,594,214, Apr. 22.
Rolling massager for increasing blood circulation. C. D. Cash. 2,593,982, Apr. 22.
Rosin amine algaecides. J. N. Borglin. 2,593,529, Apr. 22.
Rotatable cap applying chuck with cap gripping helical spring. M. S. Resina. 2,593,794, Apr. 22.
Rubber composition and making same, Semihard. J. R. Helms. 2,594,165, Apr. 22.
Ruffler attachment for sewing machines. C. G. Baehr and H. H. Russell. 2,593,519, Apr. 22.
Safety mechanism for splicing machines. J. Trathen. 2,594,251, Apr. 22.
Safety release for needle drive for balers, Two-way. J. H. Bornsin. 2,593,653, Apr. 22.
Safety valve. G. O. Eastman. 2,593,423, Apr. 22.
Saw guard, Circular. G. V. Olson. 2,593,596, Apr. 22.
Saw, Portable band. G. James. 2,593,760, Apr. 22.
Scale. C. S. Schroeder. 2,593,615, Apr. 22.
Scale-of-three electronic switches. C. H. Hoeppner. 2,593,452, Apr. 22.
Scale, Weighing. H. A. Hadley. 2,594,157, Apr. 22.
Scooter, Collapsible motor. K. T. King. 2,594,034, Apr. 22.
Screen attaching and tensioning means. A. Cohen. 2,593,539, Apr. 22.
Screw driver, Screw holding. A. L. Stanelle. 2,593,622, Apr. 22.
Seal. L. R. Buckendale. 2,593,410, Apr. 22.
Seal. L. G. Krug. 2,593,899, Apr. 22.
Sealed envelope and manufacture. B. N. Clack. 2,593,846, Apr. 22.
Sealing hydrocarbon conversion housings. J. W. Barker. 2,593,404, Apr. 22.
Seat for chairs, Extensible. M. Greitzer. 2,593,750, Apr. 22.
Seed and fertilizer spreader. H. and H. A. Skibbe. 2,594,084, Apr. 22.
Selector switch. H. A. and J. Kliegl. 2,594,181, Apr. 22.
Semipermeable membrane. R. T. K. Cornwell and J. Zender. 2,593,540, Apr. 22.
Severing and handling materials such as macaroni or spaghetti, Method and machine for. A. R. Curioni. 2,593,543, Apr. 22.
Severing and segregating macaroni, Method and apparatus for. A. R. Curioni. 2,593,542, Apr. 22.
Shaving gears. R. G. Le Tourneau. 2,594,186, Apr. 22.
Shearing, cutting, and trimming device. W. G. Kammlade, Jr. 2,594,177, Apr. 22.
Shears, Pruning. G. Potstada. 2,593,603, Apr. 22.
Sheet extractor device. R. E. Cummings. 2,593,415, Apr. 22.
Shielded electrical connector. R. E. Farish, Jr. 2,594,004, Apr. 22.
Shipping container. W. R. Kohl. 2,593,895, Apr. 22.
Shoulder-bead for use in dry wall construction. A. H. Dunlap. 2,593,859, Apr. 22.
Shutter leaf driving means for between-the-lens shutters. A. H. Gorey. 2,593,873, Apr. 22.
Sight radius device for firearms, Adjustable. H. F. Genzhorn. 2,593,870, Apr. 22.
Sign: *See*—
Removable letter display sign.
Signal light. J. D. Lash. 2,593,901, Apr. 22.
Signal means for basketball baskets. A. C. Holmdahl. 2,593,758, Apr. 22.
Signal repeater, Two-way. H. Gardere. 2,594,007, Apr. 22.
Signal selection. W. S. Pike. 2,593,600, Apr. 22.
Single-bath chrome dyeing processes and compositions, including ammonium sulfate and diammonium phosphate. W. B. Coleman and G. M. Coté. 2,593,850, Apr. 22.
Sled, Fisherman's ice. W. E. Stoddard and G. W. Kelly. 2,593,809, Apr. 22.
Sled, Ski. R. P. Brown. 2,593,974, Apr. 22.
Slip, Lady's. G. C. Elder. 2,593,739, Apr. 22.
Sluice gate. W. J. Bowtell. 2,593,969, Apr. 22.
Slushing compositions. E. R. Irwin. 2,593,676, Apr. 22.
Small tree and plant extractor. W. G. Rothkamm. 2,593,924, Apr. 22.
Smoker's pipe. J. W. Cryder. 2,593,731, Apr. 22.
Smoking pipe. M. Ward. 2,593,819, Apr. 22.
Smoking pipe cleaner. A. Pascoe. 2,593,598, Apr. 22.
Snatch carrier tackle. D. H. Henderson. 2,593,881, Apr. 22.
Soap cake holder. G. J. Sickelka. 2,594,082, Apr. 22.
Solar heater and heat exchanger. C. L. Stockstill. 2,594,232, Apr. 22.
Solenoid with plunger. E. M. Soreng, H. Y. Fisher, and G. D. Johnson. 2,594,089, Apr. 22.
Soluble solid silicates, Making. L. Blanchard. 2,593,652, Apr. 22.
Solvent extraction of oils with dimethylammonium dimethylcarbamate. D. J. Loder. 2,594,044, Apr. 22.
Spectacle frame. R. F. E. Stegeman. 2,593,932, Apr. 22.
Spigot for discharging liquid from containers. G. M. Vosburg. 2,593,634, Apr. 22.
Spinal adjusting device. E. W. Stevens. 2,593,624, Apr. 22.
Sponge rubber containing wax. T. H. Rogers, Jr., and W. T. L. Ten Broeck. 2,594,217, Apr. 22.
Sprayer. V. Santarelli. 2,594,223, Apr. 22.
Spring: *See*—
Double nose coil spring.
Spring coin holder. J. Loevenich. 2,593,580, Apr. 22.
Spring hanger. H. A. Thomson. 2,593,502, Apr. 22.
Sprinkler. A. Winkler. 2,594,243, Apr. 22.
Sprinkler, Illuminated. J. Angulo. 2,593,517, Apr. 22.
Squaroid. H. C. Boardman. 2,593,408, Apr. 22.
Stabilization of polymerisable unsaturated dicarboxylic acid polyesters and mixtures thereof with vinylic monomers. E. E. Parker. 2,593,787, Apr. 22.
Steel, Producing. E. H. Graf. 2,593,554, Apr. 22.
Steel shipping package for section beams. J. B. McGinn. 2,593,472, Apr. 22.
Stereoscopic rotator for rotating stereoscopic pictures. H. S. Alexander. 2,593,826, Apr. 22.
Sterilization of salted foods and materials. O. Rahn. 2,594,213, Apr. 22.
Stirring and scraping device. F. B. Williams. 2,593,949, Apr. 22.
Stocking heel construction. C. B. Biehl. 2,593,719, Apr. 22.
Stoker control. J. O. Yelda. 2,593,644, Apr. 22.
Stop motion for knitting machines, Electrical. W. O. Heyne. 2,594,168, Apr. 22.
Stop motion for looms, Electric. I. S. Porter. 2,594,209, Apr. 22.
Stop motion for textile machines. M. M. Rosenstein. 2,594,218, Apr. 22.
Storm welts, Making. L. H. Gemme. 2,593,871, Apr. 22.
Stove for burning solid fuel, Magazine type hot-air. K. A. Niermeyer. 2,593,690, Apr. 22.
Strip lifting device for pickling tanks. D. A. McArthur. 2,594,192, Apr. 22.
Stroboscope. E. L. Thomas. 2,593,501, Apr. 22.
Stroller, Child's. P. L. Barker. 2,593,962, Apr. 22.
Stuffing box assembly. W. F. Delametter. 2,594,134, Apr. 22.

Submerged flame burner. N. Swindin. 2,594,234, Apr. 22.
Sulfur recovery. B. W. Gamson. 2,594,149, Apr. 22.
Superheater control. M. Frisch. 2,593,435, Apr. 22.
Support : *See*—
Friction grip lug strap support. Walking support.
Support for archery equipment. B. Pearson. 2,593,789, Apr. 22.
Support for rotary and working platforms, Portable. A. A. Moore. 2,594,197, Apr. 22.
Supported phosphoric acid catalyst containing a pitch resin binder and its preparation. M. S. Bielawski. 2,593,720, Apr. 22.
Surf board with an extensible keel member. D. M. Steele. 2,593,806, Apr. 22.
Surfaces for tinning, Preparing. F. T. Crego. 2,594,129, Apr. 22.
Surgical drainage tube. D. J. Calicchio. 2,593,980, Apr. 22.
Surgical splint. W. H. Dietsch. 2,593,546, Apr. 22.
Sweetening hydrocarbon oils. J. H. Krause. 2,593,464, Apr. 22.
Switch : *See*—
Electric circuit timing switch. Selector switch.
Electric rocker switch. Tire deflation responsive switch.
Handgrip operated switch.
Scale-of-three electronic switch.
Switch actuating mechanism. H. W. Grikschelt. 2,593,670, Apr. 22.
Switch control mechanism. J. W. Woolf. 2,593,643, Apr. 22.
Switch mechanism, Coin actuated. J. G. Van Derwalker. 2,593,813, Apr. 22.
Switch of the snap action type, Electric. J. O. Roeser. 2,594,216, Apr. 22.
Switchboard construction. M. J. Brown and F. F. Lukaszewicz. 2,593,975, Apr. 22.
Switchboard construction. P. S. Graham and H. Kennedy. 2,594,010, Apr. 22.
Switchboard plug polisher, Electric. W. C. Delzell. 2,593,735, Apr. 22.
Switchgear, Metal enclosed. H. H. Rugg. 2,594,075, Apr. 22.
Switching system, Selective. A. Liberman. 2,594,043, Apr. 22.
Swivel-jointed wired electrical fixture. B. A. Wilson. 2,594,242, Apr. 22.
System for gathering and loading oil from underwater oil wells. R. G. Watts. 2,594,105, Apr. 22.
Table : *See*—
Foldable serving table.
Physiotherapy traction table.
Table supported abdominal retractor. D. P. Smith. 2,594,086, Apr. 22.
Telegraphic facsimile transmitting blank, Making a. D. P. Roddin and B. L. Kline. 2,593,923, Apr. 22.
Telephone index. H. L. Neilsen. 2,593,475, Apr. 22.
Telephone signaling system, Alternating current. E. P. G. Wright and W. J. Reynolds. 2,593,512, Apr. 22.
Tension control and stop motion for stranded wire cable making machines. F. A. Clary, Jr., and G. N. Willis. 2,593,984, Apr. 22.
Tetraalkylstilbene quinones and tetraalkoxystilbene quinones, Production of. W. K. T. Gleim, A. Gaydasch, and R. H. Rosenwald. 2,593,746, Apr. 22.
Tetrafluoroethylene polymer compositions, Producing. J. F. Lontz and L. E. Robb. 2,593,582, Apr. 22.
Thermostatic control and excessive temperature indication mechanism. C. R. Turner. 2,593,812, Apr. 22.
Three-phase core. B. B. Ellis, C. C. Horstman, and C. E. Burkhardt. 2,594,001–2, Apr. 22.
3,3'-bis-(1-substituted-2,5-diketo-7-methylpyrimidopyrazoles). H. B. Kellog. 2,593,890, Apr. 22.
Thrust bearing. H. R. Reynolds. 2,593,919, Apr. 22.
Time comparator. W. O. Bennett, Jr. 2,593,650, Apr. 22.
Timepiece automatic winding mechanism. F. Meyer. 2,593,688, Apr. 22.
Timepiece for vehicles, Self-winding. Z. Maar. 2,593,686, Apr. 22.
Timer. F. Lux. 2,593,905, Apr. 22.
Timer, Electronic. T. A. Birckhead. 2,593,964, Apr. 22.
Timing system, Automatic. C. B. Stadum. 2,594,090, Apr. 22.
Tire deflation responsive switch. A. A. Wilson. 2,593,824, Apr. 22.
Toe protector. I. Kiwad. 2,593,767, Apr. 22.
Toilet kit. E. A. Kollontay. 2,593,896, Apr. 22.
Creek. 2,594,130, Apr. 22.
Tool : *See*—
Fishing tool. Utility garden tool.
Tool dresser for pattern controlled machine tools. J. O.
Tool for cleaning grease fittings. W. P. Russell. 2,593,799, Apr. 22.
Tool for handling substantially cylindrical articles. J. B. Minor, Sr. 2,593,782, Apr. 22.
Tool for severing metal bands on crates and the like. J. A. Fanelli. 2,593,663, Apr. 22.
Toolholder. J. W. Clark. 2,593,847, Apr. 22.
Toolholder, Safety friction. F. M. Marshall. 2,593,907, Apr. 22.
Toy airplane, Tethered. J. A. Calhoun. 2,593,979, Apr. 22.
Toy, Remotely controlled mechanical walking. H. Sebel. 2,593,618, Apr. 22.
Toy simulating a galloping horse, Mechanical. L. S. Crosby. 2,593,991, Apr. 22.
Toy, Sounding wheeled. R. B. Witmyer. 2,593,511, Apr. 22.
Toy string instrument, Miniature. A. T. Cristell. 2,593,990, Apr. 22.
Tractor coupling arrangement. G. Amey. 2,593,645, Apr. 22.
Tractor implement supporting cradle. J. A. Thierry. 2,593,500, Apr. 22.
Transmission. D. W. Kelbel. 2,593,568, Apr. 22.
Transmission. L. A. Schott. 2,593,804, Apr. 22.
Transmission operating mechanism. R. H. Long and E. E. Prather. 2,593,581, Apr. 22.
Transmission operating mechanism. E. R. Price. 2,593,604–5, Apr. 22.
Transmitter, Fluid operated power. W. Jastrzebski. 2,593,457, Apr. 22.
Transparent traylike structure. F. D. Bergstein. 2,593,834, Apr. 22.
Trap : *See*—
Animal trap. Gopher trap.
Tray for scrub pails, Accessory. J. Kaiser, Jr. 2,594,176, Apr. 22.
Tray, Ice cube. R. L. Collier. 2,594,127, Apr. 22.
Treating aluminum and aluminum alloys, Method and composition for. F. H. Hesch. 2,593,447, Apr. 22.
Treating aluminum and aluminum alloys, Method and composition for. F. H. Hesch. 2,593,448, Apr. 22.
Treating aluminum and aluminum alloys, Method and composition for. F. H. Hesch. 2,593,449, Apr. 22.
Treating egg whites. A. M. Kaplan and M. Solowey. 2,593,462, Apr. 22.
Treating windings with completely-reactive compositions. W. M. Trigg. 2,594,096, Apr. 22.
Treatment of hydrocarbon oils with an alkyl oxalate and an alkali alcoholate. J. O. Smith, Jr., and A. R. Jones. 2,593,619, Apr. 22.
Tree protector band. A. L. Meis. 2,593,781, Apr. 22.
Trolley conductor insulator. L. F. Brahmer and R. P. Hanna. 2,593,970, Apr. 22.
Truck, Casket carrying. W. E. Barrott, Jr. and Sr. 2,593,717, Apr. 22.
Truck, Inboard railway. J. C. Settles and L. E. Furniss. 2,594,079, Apr. 22.
Tube : *See*—
Electric discharge tube. Vacuum tube.
Surgical drainage tube.
Tube of the kind comprising an indirectly heated cathode, Electric discharge. H. J. de Weyer. 2,593,856, Apr. 22.
Tube structure, High-frequency. A. E. Harrison. 2,593,443, Apr. 22.
Tube with luminescent shield, especially tuning tube, Electron. W. Jacobi, H. Hinderer and H. Katz. 2,594,025, Apr. 22.
Tube with luminescent shield, especially tuning tube, Electron. W. Jacobi and H. Hinderer. 2,594,026, Apr. 22.
Tubing head, Ram-type. L. L. Rector. 2,593,793, Apr. 22.
Turret gun mounting. L. Motley. 2,594,198, Apr. 22.
Twine holder. J. W. England. 2,594,140, Apr. 22.
2-mercapto-arylene-thiazole-6-sulphonic acids and salts thereof, Preparation of. A. Sander. 2,593,800, Apr. 22.
2,7-diamino-9-(aminophenyl) phenanthridinium salts. L. P. Walls and N. Whittaker. 2,594,265, Apr. 22.
Ultrahigh-frequency bridge circuits. E. W. Herold. 2,594,167, Apr. 22.
Ultrahigh-frequency filter. V. D. Landon, R. L. Harvey and E. O. Keizer. 2,594,037, Apr. 22.
Ultrahigh-frequency oscillation generator. J. H. Fremlin and J. Foster. 2,593,433, Apr. 22.
Ultrasonic flaw detector. D. C. Erdman. 2,593,865, Apr. 22.
Underground gasification of coal. L. L. Newman and W. C. Schroeder. 2,593,477, Apr. 22.
Universal chuck vice. A. A. Muehling. 2,594,057, Apr. 22.
Universal feed cover plate for sewing machines. J. P. Enos. 2,593,864, Apr. 22.
Unsaturated aldehydes, Manufacture of. E. P. Goodings and D. J. Hadley. 2,593,437, Apr. 22.
Use of diphenylol propane in esterification and ester products. W. F. Fischer, F. Knoth, Jr., and R. G. Newberg. 2,593,428, Apr. 22.
Utensil, Kitchen. R. S. Harnsberger. 2,593,674, Apr. 22.
Utility cutter. M. Pollak. 2,593,601, Apr. 22.
Utility garden tool. W. M. Walters, Jr., and W. J. Sampson. 2,593,944, Apr. 22.
Vaccine and manufacturing the same. A. H. Killinger and J. R. Dick. 2,594,180, Apr. 22.
Vacuum cleaner nozzle brush attachment. C. H. MacFarland. 2,594,189, Apr. 22.

Vacuum flask sealing machine. C. Eisler. 2,593,999, Apr. 22.
Vacuum treating process. A. H. Heineman. 2,593,445, Apr. 22.
Vacuum tube. S. Freedman and G. F. Bonardi. 2,594,005, Apr. 22.
Valve : *See*—
Antiscald and proportioning valve. Lubricated valve.
Fluid control valve. Lubricated plug valve.
Fuse valve. Pilot operated valve.
Locking gas valve. Safety valve.
Valve. C. M. Barnes. 2,593,522, Apr. 22.
Valve. W. F. Berck. 2,593,527, Apr. 22.
Valve. H. M. Jensen and H. K. Bouvier. 2,594,173, Apr. 22.
Valve assembly. R. H. Davies. 2,593,733, Apr. 22.
Valve automatically guided by a feeling member, Flap. M. Clausen. 2,593,848, Apr. 22.
Valve mechanism. W. H. Brown. 2,593,531, Apr. 22.
Valve sealing assembly. S. W. Faust. 2,593,740, Apr. 22.
Vapor condensing apparatus. H. E. Byer. 2,593,655, Apr. 22.
Vapor-electric device. L. J. Hibbard, L. A. Casanova and R. A. Buchanan. 2,594,017, Apr. 22.
Variable pitch propeller with an axially movable hub. O. Hansson. 2,594,160, Apr. 22.
Variable pitch reversible propeller. E. H. Morris, E. Danvers and T. E. Godden. 2,593,910, Apr. 22.
Variable resolution collector system. C. E. Berry. 2,593,407, Apr. 22.
Variable shunt permanent magnet. H. W. Washburn. 2,593,508, Apr. 22.
Vehicle : *See*—
Motor vehicle.
Vehicle hoist. E. B. Thompson. 2,593,630, Apr. 22.
Veneer handling apparatus. R. N. Ware, Jr., and R. Cannon. 2,593,709, Apr. 22.
Venetian blind. E. A. Lyons. 2,593,684, Apr. 22.
Viscose spinning solution. R. D. MacLaurin and W. O. Israel. 2,593,466, Apr. 22.
Vise, Watchmaker's. A. B. Sinkler. 2,593,703, Apr. 22.
Visor for vehicles. M. U. Squiers. 2,594,231, Apr. 22.
Voltage power supply. A. W. Friend. 2,594,006, Apr. 22.
Walking support. A. McFarland, W. H. Reetz and W. E. Burbank. 2,594,051, Apr. 22.
Washing machine, Fabric. A. H. Haberstump. 2,593,752, Apr. 22.
Washing machine provided with loading and unloading passageway. O. M. Anderson. 2,594,112, Apr. 22.
Washing residues, Method of and apparatus for. E. G. Judd. 2,594,175, Apr. 22.
Waste material disposal apparatus. D. O. Tranbarger. 2,594,250, Apr. 22.
Water-heating unit. H. W. Peters. 2,594,067, Apr. 22.
Water tunnel. H. E. Saunders, C. A. Lee, E. A. G. Marvinney and W. F. Brownell, Jr. 2,593,491, Apr. 22.
Wattage control system for vapor arc lamps. L. F. Bird. 2,593,651, Apr. 22.
Wave analyzer for determining fundamental frequency of a complex wave. E. Peterson. 2,593,694, Apr. 22.
Web feeding means for cutting machines. F. K. Madgwick and J. A. Silvaggio. 2,593,585, Apr. 22.
Well casing gun. W. R. Evans. 2,593,866, Apr. 22.
Well cementing apparatus. R. C. Baker and B. Kriegel. 2,593,520, Apr. 22.
Wheel : *See*—
Grinding wheel. Resilient wheel.
Wheel rotator. R. A. Necchi. 2,594,202, Apr. 22.
Wide-angle photographic objective. R. E. Hopkins and D. Goldstein. 2,594,020, Apr. 22.
Wide-angle photographic objective. R. E. Hopkins and D. G. Goldstein. 2,594,021, Apr. 22.
Winding device, Timepiece. Z. Maar. 2,593,685, Apr. 22.
Winding machine. F. L. Lamb and E. Yefko. 2,593,680, Apr. 22.
Window seal structure. H. S. Davis. 2,593,658, Apr. 22.
Windrower. P. R. Schroeppel. 2,593,617, Apr. 22.
Windshield, Glare-reducing. R. R. Beckham. 2,593,525, Apr. 22.
Wire stitching machine. J. I. Nasmith and W. Kirby. 2,594,201, Apr. 22.
Woodworking machine with automatically movable cutter-carrying frame. F. H. Gillespie. 2,593,744, Apr. 22.
Wool degreasing machine. H. S. Drum and A. Hopkins. 2,593,422, Apr. 22.
Work holder. D. M. Cleveland. 2,593,538, Apr. 22.
Work holder for cylindrical articles. R. R. Teetor. 2,593,936, Apr. 22.
Work holder orienting device. R. B. Mentzer. 2,593,687, Apr. 22.
Workstand. W. E. McDonald. 2,593,588, Apr. 22.
Wrench having pivotable jaws cammed by pivoting handle. J. J. and S. C. Greer. 2,594,154, Apr. 22.
X-ray shutter. L. S. Bell and T. W. Maltby. 2,593,526, Apr. 22.

CLASSIFICATION OF PATENTS

ISSUED APRIL 22, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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U. S. GOVERNMENT PRINTING OFFICE : O—1952

Condition of Applications Under Examination at Close of Business April 4, 1952

Total number of patent applications awaiting action, 100,907. Date of oldest new application, June 12, 1951; date of oldest amended application, June 6, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	7-10-51	7-11-51	2111
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	9-14-51	9-8-51	1087
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-4-51	9-1-51	1591
4. FALLER, E. A. (Acting), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	6-28-51	6-26-51	1644
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	8-20-51	8-17-51	1234
6. SURLE, H., Carbon Chemistry (part)	7-28-51	7-12-51	1832
7. GONSALVES, J. E., Optics; Photography (part)	9-7-51	9-5-51	1196
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes; Ladders; Scaffolds	7-2-51	7-2-51	1455
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	6-26-51	7-2-51	1360
10. ANDRUS, L. M., Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles.	7-10-51	6-26-51	955
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	7-3-51	7-3-51	1166
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	6-22-51	6-25-51	1382
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	6-20-51	6-20-51	1658
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	9-10-51	9-11-51	1121
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	6-20-51	6-19-51	1203
16. LOVEWELL, N. N., Television, Telephony	7-2-51	6-29-51	1933
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	7-3-51	7-2-51	1260
18. KURZ, J. A., Power Plants; Speed Responsive Devices	7-18-51	7-6-51	1131
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	7-19-51	7-19-51	1420
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	6-22-51	6-19-51	1334
21. MADER, R. C., Textiles	7-9-51	7-9-51	1131
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	7-5-51	7-12-51	822
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	7-31-51	8-9-51	1430
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing.	7-16-51	7-16-51	1156
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	6-30-51	6-26-51	1204
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	7-17-51	7-17-51	1530
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	7-5-51	7-5-51	1319
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	7-23-51	7-10-51	1088
29. HABECKER, L. B., Button Making; Woodworking; Tools	8-15-51	8-14-51	1479
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	8-3-51	8-1-51	1998
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	7-5-51	7-5-51	1092
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	6-29-51	6-30-51	2007
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	7-18-51	7-16-51	1327
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	6-25-51	6-16-51	1447
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	7-2-51	7-2-51	1241
36. McFADYEN, A. D., Measuring and Testing	7-26-51	7-26-51	1262
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	7-10-51	7-6-51	1513
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	7-9-51	7-9-51	2628
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	7-12-51	7-10-51	1455
40. DRUMMOND, E. J., Receptacles (part); Packages	7-3-51	6-27-51	1157
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	7-6-51	7-6-51	1102
42. MARANS, H., Electric Signaling (part, except submarine, altimeters, distance or direction measuring, and object detection); Signals; Telegraphy (part); Signals and Indicators.			

*Commissioner's Examiners' Division.

Condition of Applications Under Examination—Continued

Total number of patent applications awaiting action, 100,907. Date of oldest new application, June 12, 1951; date of oldest amended application, June 6, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	8-18-51	8-11-51	1225
44. HARVEY, L. P., Beds; Chairs, Seats	7-2-51	7-2-51	1372
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	7-6-51	7-5-51	1353
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	7-3-51	7-3-51	898
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	7-9-51	7-3-51	1562
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	7-3-51	7-5-35	1637
49. BENDETT, B., Drying and Gas or Vapor Contact with Solids; Ventilation; Wells; Earth Boring	7-3-51	7-5-51	1478
50. BENGEL, W. G., Synthetic Resins	9-21-51	9-19-51	1459
51. YAFFEE, S., Radiant Energy (part, e. g., Radio Signaling); Radiant Energy Communications (part, e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	7-14-51	7-14-51	1313
52. WHITNEY, F. L., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	7-12-51	7-6-51	2118
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	8-3-51	8-14-51	1020
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	7-11-51	7-5-51	1603
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	7-17-51	7-10-51	1118
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	8-3-51	7-25-51	1818
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	7-6-51	7-9-51	1792
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators.	7-12-51	7-13-51	922
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	7-13-51	7-13-51	1087
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	7-17-51	7-31-51	1042
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	7-6-51	7-7-51	1250
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	7-6-51	7-18-51	1378
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	7-5-51	7-5-51	1580
64. GORECKI, G. A., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	8-30-51	8-29-51	1777
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	7-12-51	7-12-51	1445
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	7-2-51	7-3-51	1057
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	7-10-51	7-6-51	1243
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	7-6-51	7-5-51	1643
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	7-12-51	7-5-51	1313
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and directional and distance instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers	6-12-51	6-6-51	2967
DESIGNS: A. BREHM, G. L., Industrial Arts	12-6-51	12-20-51	624
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	12-12-51	1-2-52	655

Total number of trade-mark applications awaiting action (including renewals and republications), 14,324. Date of oldest new application, Sept. 20, 1951; date of oldest amended application, Sept. 18, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	9-20-51	9-20-51	3840
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	10-13-51	10-13-51	3134
Renewals (All Classes)	2-10-52	2-1-52	720
Republications (All Classes)	2-23-52	3-1-52	188
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	10-24-51	10-10-51	3256
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	10-1-51	9-18-51	3186

DECISIONS IN PATENT AND TRADE-MARK CASES

United States Court of Appeals District of Columbia Circuit

AKERLUND ET AL. *v.* MARZALL, COMMISSIONER OF PATENTS

No. 11129. Decided March 6, 1952

[— F.2d —; 92 USPQ 309]

1. PATENTABILITY — INVENTION — IMPROVED RESULT INSUFFICIENT.

Although it may be assumed from the evidence that the claimed article is generally more efficient and promises greater commercial success, *Held* that one working in the field with knowledge of the reference article did not need to possess or apply creative talent to make the changes which resulted in the claimed product.

2. SAME—PARTICULAR SUBJECT MATTER—CONTAINER FOR LIQUIDS.

Certain claims to a container for liquids *Held* properly rejected as failing to define invention over the cited prior art.

APPEAL from the United States District Court for the District of Columbia.

AFFIRMED.

E. B. Batchelder (*E. F. Wenderoth* of counsel) for appellant.

E. L. Reynolds (*Clarence W. Moore* of counsel) for appellee.

Before EDGERTON, FAHY, and WASHINGTON, *Circuit Judges*

FAHY, *Circuit Judge*:

Appellant commenced this action in the district court under Rev. Stat. § 4915 (1878), as amended, 35 U. S. C. § 63 (1946), after rejection by the Patent Office of its claim to a patentable invention. The district court, after a hearing as provided by statute, dismissed the complaint. This appeal followed.

Appellant is assignee of the originator of the article claimed to be patentable, referred to as the American article to distinguish it from an English product protected by British Patent No. 442,176.

The American article is a container for liquids such as milk. It is made from stiffened paper cut in elongated rectangular shape. The two shorter edges are adhesively secured to each other, forming a tube. Each of the two open ends of the tube is flattened and closed, or sealed, in two planes which are relatively perpendicular to one another. The result, which approximates a tetrahedron, has six edges nearly equal in length.

The British patent is also for a container suitable for milk and other liquids and it is also formed from stiffened paper of an oblong shape. But the longer edges of the paper, rather than the shorter, are first secured to form a tube. The two open ends of this tube are then flattened and sealed, in two relatively perpendicular planes, so that this container also assumes the form of a tetrahedron, but two of its edges are shorter than the four other equal edges.

The American article, principally because of the securing together, first, of the shorter ends instead of the longer, causes the clasping together of the open ends, in the manner described, to result in an article which is more compact and rigid than the English product. It is also more easily packaged with others of its kind. Furthermore, it may be assumed from evidence introduced in the court below that the American article is generally more efficient and promises greater commercial success.

The district court found as a fact that the claim was unpatentable. This finding was predicated on a finding that, in view of the teachings of the British patent, invention was not required to devise the American article.

Applying the rule which governs the scope of our review in this type of case, we affirm. See, for example, *Standard Oil Development Co.* v. *Marzall*, 86 U. S. App. D. C. 210, 181 F.2d 280 (1950), 633 O. G. 995.

The trial court was well within its judicial province in holding that the step between the British patent and the American article was not a creative one which brought the result into the realm of patentable invention. Notwithstanding the respects in which the American article is an improvement over the British, the change which brought this about seems fairly obvious. The prior art represented by the British patent disclosed the essentials. One working in the field with knowledge of the British article did not need to possess or apply creative talent to make the changes which resulted in the American product.

AFFIRMED.

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PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

2,028,759, C. F. Dinley, Treatment with solvents; 2,036,261, same, Apparatus for treatment with solvents; 2,101,840, 2,214,788, same, Degreasing apparatus, filed Mar. 17, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 13941-Y, *Detrex Corp.* v. *F. H. Macquarrie et al.*

2,028,759. (See 2,036,261(a).)

2,036,261. (See 2,028,759.)

2,036,261(a), C. F. Dinley, Apparatus for treatment with solvents; 2,028,759, same, Treatment with solvents, D. C., S. D. N. Y., Doc. 63/194, *Detrex Corp.* v. *Randall Mfg. Co., Inc.* Consent judgment holding infringement, injunction (notice Mar. 21, 1952).

2,101,840. (See 2,028,759.) 2,214,788. (See 2,028,759.)

2,252,211, P. R. Seemiller, Heat-exchange core, D. C., E. D. Mich. (Detroit), Doc. 9238, *McCord Corp.* v. *Jenich Radiator Sales & Service.* Stipulation and order of dismissal with prejudice (notice Mar. 20, 1952).

2,459,110, S. P. Midouhas, Collapsible clothesline; T. M. 535,122, Kamkap, Inc., Outdoor and indoor clothes dryer, D. C., S. D. N. Y., Doc. 70/84, *Kamkap, Inc.* v. *Litehouse Builders Supplies, Inc.* Consent judgment holding patent infringed, injunction (notice Mar. 18, 1952).

2,461,464, R. Aronstein, Filter for fluorescent screen, filed Mar. 18, 1952, D. C., S. D. N. Y., Doc. 74/96, *Transmirra Products Corp. et al.* v. *The Magnavox Co., Ltd.*

2,504,777, F. S. Wreford, Welding cable, D. C., E. D. Mich. (Detroit), Doc. 9828, *Uniflex Cable Co.* v. *Mackworth G. Rees, Inc.* Judgment dismissing complaint Mar. 17, 1952.

2,568,227, M. W. Federbush, Loose-leaf binder, filed Mar. 19, 1952, D. C., E. D. N. Y. (Brooklyn), Doc. C-12520, *Federal Loose Leaf Corp.* v. *Buchmann Spark-Wheel Corp.*

Re. 21,595, M. Imershein, Undergarment, D. C., S. D. N. Y., Doc. 73/55, *Graceform-Camlin Corset Co., Inc.*, v. *Renette Foundations Corp.* Consent judgment granting injunction for plaintiff (notice Mar. 19, 1952).

Des. 140,410, G. Yates, Spring-clip hanger, filed Mar. 19, 1952, D. C., S. D. Calif. (Los Angeles), Doc. 13944-Y, *Plastic Metal Mfg. Co. et al.* v. *S. H. Kress & Co.*

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 35,089, General Electric Co., Electrical apparatus and supply parts therefor, D. C. N. J. (Newark), Doc. 123/51, *General Electric Co.* v. *General Electric Corp.* Judgment favor plaintiff; injunction Mar. 24, 1952.

T. M. 48,005, Frank H. Fleer & Co., Chewing gum; T. M. 259,097, American Chewing Products Corp., Candy coated chewing gum, filed Mar. 21, 1952, D. C. N. J. (Newark), Doc. 241/52, *American Chewing Products Corp.* v. *American Chicle Co.*

T. M. 259,097. (See T. M. 48,005.)

T. M. 309,368, Dixie Cream Donut Co., Doughnuts and doughnut fluor, filed Mar. 17, 1952, D. C., S. D. Fla. (Miami), Doc. 4257-M, *Dixie Cream Flour Co.* v. *Hadler's Dixie Cream Donuts et al.*

T. M. 312,426, T. M. 312,427, T. M. 312,428, G. H. Mumm & Co., Champagne wine, filed Mar. 13, 1952, D. C., S. D. N. Y., Doc. 74/51, *G. H. Mumm & Co. et al.* v. *Bellows & Co., Inc.*

T. M. 312,427. (See T. M. 312,426.)

T. M. 312,428. (See T. M. 312,426.)

T. M. 378,802, Zephyr American Corp., Paper dispensing device for desks; T. M. 546,707, same, Visible card filing device, filed Mar. 17, 1952, D. C., N. D. Tex. (Dallas), Doc. 4594, *Zephyr American Corp.* v. *Rotodex Co.*

T. M. 423,745, The Curtis Publishing Co., A periodical, filed Mar. 24, 1952, D. C., S. D. N. Y., Doc. 74/153, *The Curtis Publishing Co.* v. *Star Publications, Inc.*

T. M. 535,122. (See 2,459,110.)

T. M. 546,707. (See T. M. 378,802.)

NOTICES

Disclaimers

2,497,662.—*Henry M. Dressel*, St. Marys, Pa. DEVICE FOR TUNING HIGH-FREQUENCY CIRCUITS. Patent dated Feb. 14, 1950. Disclaimer filed Mar. 27, 1952, by the assignee, *Stackpole Carbon Company.*

Hereby enters this disclaimer to claims 1, 2, and 9 of said patent.

2,538,494.—*Loy E. Barton*, Collingswood, N. J. SERVO CONTROL AMPLIFIER. Patent dated Jan. 16, 1951. Disclaimer filed Mar. 21, 1952, by the assignee, *Radio Corporation of America.*

Hereby enters this disclaimer to the subject matter claimed in claim 1, except where the said rectified voltage has such a value that, in the absence of said alternating current potentials applied between the grid and cathode electrodes, each of said devices becomes conductive during each cycle when its anode is positive with respect to its cathode.

2,545,579.—*George B. Hill* and *Frank D. Jones*, Ottumwa, Iowa. BALE TYING MECHANISM. Patent dated Mar. 20, 1951. Disclaimer filed Mar. 17, 1952, by the assignee, *Deere Manufacturing Co.*

Hereby enters this disclaimer to claims 14, 15, 16, 17, and 18 of said patent except for such construction of each of said claims as to require a helical wind-up spring as the spring motor thereof.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,540,360. Pipette Loader. Patented Feb. 6, 1951. A filling device for a standard pipette for obtaining accurately measured quantities of blood specimens. A housing has an air passage therethrough with a rubber tube in one end for making a sealed connection with a pipette. A rubber bulb communicates with other end. At the instant incoming blood in the pipette reaches the desired graduation, a button valve in the housing is closed to stop expansion of the bulb. End of pipe is then inserted in diluent and the valve opened until a measured amount of diluent has been drawn into pipette. If for any reason an excess amount of blood should be drawn into pipette, button valve may be held closed, and an auxiliary valve opened to admit air to fill bulb. Button valve is then released and bulb pressed slightly to expel the excess blood. (Owner) George B. Ulvild, P. O. Box 574, Robstown, Tex. Group 39—15. Reg. No. 47,293.

Pat. 2,571,637. Automatic Poultry Feeder. Patented Oct. 16, 1951. Feeding device for poultry or livestock automatically dispenses a predetermined amount of feed periodically under the control of a timing device. A conveyor has a series of spaced tubes which extend to an elongated trough and carry feed by gravity from conveyor to trough. Supply bins above conveyor have pipes extending to conveyor for supplying feed thereto at spaced points to provide equal distribution of the feed throughout the length of the trough. (Owner) Otto J. Weist, 1328 South Hutchins St., Lodi, Calif. Groups 25—99; 35—22—62. Reg. No. 47,294.

Pat. 2,504,241. Fishline Bobber. Patented Apr. 18, 1950. Fishline bobber includes a float body having a slot therein into which a fish line may be inserted. A locking wedge is movably supported by the bobber body. In one position of the wedge the line is freely movable in the slot, while in another position the line is locked between the wedge and bobber to hold the bobber in adjusted position. (Owner) Herman A. Wulff, 164 West Stevens St., St. Paul 7, Minn. Groups 39—49; 40. Reg. No. 47,295.

Pat. 2,567,616. Insect Destroyer. Patented Sept. 11, 1951. Insect destroyer and room ventilator includes a conduit with a flared open end and a reduced rear end which merges into a cylinder. A second cylinder below and parallel to first cylinder has a port communicating with first cylinder. A trap chamber atop upper cylinder has a transparent rear wall and an electrified grille spaced therefrom. As piston rod of lower cylinder is reciprocated, pistons in the two cylinders are reciprocated in onposite directions and provide a continuous pumping of air into the conduit. Insects drawn therein will fly into the trap chamber, contact the grille, and be electrocuted. The air will be discharged outwardly through vents in rear wall of cylinders to ventilate a room. (Owner) Willie Allen Moore, General Delivery, Grambling, La. Groups 35—64; 36—21. Reg. No. 47,296.

Pat. 2,548,039. Ellipse Compass. Patented Apr. 10, 1951. Compass for drawing ellipses is provided with scales from which the major axis and foci distances of an ellipse can be determined. A detachable leg portion is marked with a calibrated linear scale and carries a slidable indicator to cooperate with the scale. A cord, carrying a slidable element for receiving a pencil, is adjustably secured to the lower pointed ends of both legs of compass. From the scale the length of the major axis of an ellipse can be determined, the indicator serving to record such measurement for future use. An index mark on the permanent leg cooperates with a circular scale on the hub (to which the detachable leg portion is secured) to measure the angular adjustment between the lower ends of the legs. (Owner) William C. Morgan, Route 10, Box 315, Fort Worth, Tex. Group 39—11. Reg. No. 47,297.

Pat. 2,570,754. Timing Device. Patented Oct. 9, 1951. Device may be used by an observer for timing an industrial operation involving a number of sequential steps repeatedly performed during the day. A number of stop watches (one for each step) and counters are mounted in a case provided with exterior push buttons. Each button is operatively connected to one of the counters and watches. Depressing any button will actuate its counter, start its watch, and simultaneously stop any other watch previously started. An extra watch on the exterior of the case runs continuously, but is automatically returned to zero each time any of the other watches is started. This extra watch may be returned to zero and the other watches simultaneously stopped by depressing another button so that the extra watch may be used by the observer to time a step being improperly performed, an additional step for which no watch has been provided, or interruptions. (Co-owners) Ronald Wade Boling, Robert Wade Lindsay. Correspondence to Stevens, Davis, Miller & Mosher, 1329 E St., N. W., Washington 4, D. C. Groups 34—61: 35—65—69. Reg. No. 47,298.

Pat. 2,440,034. Regulating Device. Patented Apr. 20, 1948. Regulating device for temperature, pressure, or other controllable quantities tends to restore the desired temperature or pressure regardless of a reversal in trend when the temperature or pressure lies outside certain limits. Variation in the quantity being controlled expands and contracts a metallic bellows carrying a member movable in response to such action. An actuator for operating a control to vary the quantity being regulated is normally clutched to the movable member for movement therewith. At predetermined position and direction of movement of the movable member, the actuator is declutched therefrom to permit the movable member to freely continue its movement within predetermined limits while the actuator remains stationary. Upon reversal of movement of the movable member, the actuator is immediately re-clutched thereto. (Owner) Irvin E. Wiegers, 2243 Benton St., St. Louis 6, Mo. Groups 33—62—65—66—69; 35—65. Reg. No. 47,299.

Pat. 2,527,504. Antihunting Control Device. Patented Oct. 24, 1950. Relates to a limiting device for controlling temperature, pressure, or other controllable quantities in which the setting of the device is automatically varied by cycling, hunting, or overshooting in the space in which control is desired. Variation in the quantity being controlled expands and contracts a metallic bellows confined in a chamber. This action of the bellows is used to pump liquid from a reservoir through check valves into a second and a third chamber, a bleed orifice allowing constant leakage from the second and third chambers back into the reservoir. When the amount of liquid pumped into the third chamber is greater than the amount of bleed-off, a metallic bellows in the third chamber is deflected to pivot an arm to vary the setting of a micro switch or other control carried by the arm. (Owner) Irvin E. Wiegers, 2243 Benton St., St. Louis 6, Mo. Groups 33—62—65—66—69; 35—65. Reg. No. 47,300.

Pat. 2,572,129. Lock for Vehicle Doors. Patented Oct. 23, 1951. Lock for vehicle doors controlled by driver to prevent doors being opened while vehicle is moving. Spaced parallel plates positioned in door post have a pair of pivoted arms between them movable by a plunger into and out of registering apertures in post and door. The plunger engages coil springs supported in grooves in the plates and a pair of L-shaped supports between the plates. A stem secured to plunger and slidable between the supports is apertured to receive an actuating cable. The cable is connected to a lever pivoted to a coupling spring connected to vehicle body. Another cable is connected to coupling and to a hand brake pivotally attached to steering wheel. (Owner) Almel N. Fuller, 5103 West 123d St., Hawthorne, Calif. Groups 33—59; 38—31. Reg. No. 47,301.

General Electric Company offers the following patents for non-exclusive licensing on reasonable terms to domestic manufacturers. Applications for license may be addressed to: Manager, Patent Department, General Electric Company, 1 River Road, Schenectady, N. Y.

THE FOLLOWING 20 PATENTS RELATE GENERALLY TO: Lighting systems, arc welding systems, a mandrel, a burr remover, a magnetic ski harness, and a conveyor system for handling freshly coated welding electrodes.

Pat. 2,004,787. Mandrel. June 11, 1935. Group 35—43. Reg. No. 47,302.

Pat. 2,036,786. Constant Current Transformer. Apr. 7, 1936. Group 36—19—61. Reg. No. 47,303.

Pat. 2,042,505. Alternating Current Apparatus. June 2, 1936. Group 36—19. Reg. No. 47,304.

Pat. 2,056,647. Illuminating System. Oct. 6, 1936. Group 34—81. Reg. No. 47,305.

Pat. 2,078,137. Lighting Unit. Apr. 20, 1937. Group 34—81. Reg. No. 47,306.

Pat. 2,116,413. Shield. May 3, 1938. Groups 35—69; 36—19. Reg. No. 47,307.

Pat. 2,212,393. Rail Welding Machine. Aug. 20, 1940. Group 36—19. Reg. No. 47,308.

Pat. 2,214,868. Control System. Sept. 17, 1940. Group 36—19. Reg. No. 47,309.

Pat. 2,227,960. Automatic Arc Welding Control System. Jan. 7, 1941. Group 36—19. Reg. No. 47,310.

Pat. 2,265,687. Control System and Apparatus Therefor. Dec. 9, 1941. Group 36—19. Reg. No. 47,311.

Pat. 2,272,737. Burr Remover. Feb. 10, 1942. Group 36—19. Reg. No. 47,312.

Pat. 2,276,826. Magnetic Ski Harness. Mar. 17, 1942. Group 39—49. Reg. No. 47,313.

Pat. 2,276,845. Reactor. Mar. 17, 1942. Group 36—19. Reg. No. 47,314.

Pat. 2,292,064. Alternating Current Lighting System. Aug. 4, 1942. Group 36—19. Reg. No. 47,315.

Pat. 2,320,797. Conveyor System. June 1, 1943. Group 35—62. Reg. No. 47,316.

Pat. 2,356,601. Adapter for Discharge Lamps. Aug. 22, 1944. Group 36—51. Reg. No. 47,317.

Pat. 2,428,195. Adjustable Cam for Electric Circuit Controllers. Sept. 30, 1947. Group 36—19. Reg. No. 47,318.

Pat. 2,443,442. Lamp Cut-Out. June 15, 1948. Group 36—19. Reg. No. 47,319.

Pat. 2,505,546. Electrical Control System. Apr. 25, 1950. Group 36—19. Reg. No. 47,320.

Pat. 2,531,181. Automatic Arc Welding Apparatus. Nov. 21, 1950. Group 36—19. Reg. No. 47,321.

THE MAJORITY OF THE FOLLOWING 33 PATENTS RELATE TO: Vacuum type coffee makers; controls for electric blankets and heating pads; controls for various household electrical appliances and devices, such as food mixers, roasters, ranges, pressure cooker, an iron, and room ventilating fan. Other patents relate to: A soldering iron tip; an insulating material for electric resistance heating elements; a fastening arrangement for an insulating button; a process for improving the corrosion resistance of chromium alloys, and a calibrating means for a refrigerant flow control device.

Pat. 2,022,518. Electric Heater. Nov. 26, 1935. Group 36—21. Reg. No. 47,322.

Pat. 2,025,553. Temperature Control Device. Dec. 24, 1935. Group 36—19—21. Reg. No. 47,323.

Pat. 2,103,922. Mixing Device. Dec. 28, 1937. Group 36—21. Reg. No. 47,324.

Pat. 2,115,598. Temperature Control Device. Apr. 26, 1938. Group 36—19—21. Reg. No. 47,325.

Pat. 2,126,559. Soldering Iron. Aug. 9, 1938. Group 36—21. Reg. No. 47,326.

Pat. 2,179,291. Rack for Cooking Utensils. Nov. 7, 1939. Groups 34—41—99; 36—21. Reg. No. 47,327.

Pat. 2,192,844. Coupling. Mar. 5, 1940. Group 36—21. Reg. No. 47,328.

Pat. 2,225,349. Ventilating Fan Control. Dec. 17, 1940. Groups 35—64; 36—21. Reg. No. 47,329.

Pat. 2,260,035. Refractory Insulating Material and Method of Making Same. Oct. 21, 1941. Groups 28—34; 32—64; 36—11. Reg. No. 47,330.

Pat. 2,260,048. Fastening Arrangement. Oct. 21, 1941. Group 36—11. Reg. No. 47,331.

Pat. 2,275,917. Control Device. Mar. 10, 1942. Group 36—19—21. Reg. No. 47,332.

Pat. 2,275,918. Control Device. Mar. 10, 1942. Group 36—19—21. Reg. No. 47,333.

Pat. 2,284,359. Coffee Maker. May 26, 1942. Group 36—21. Reg. No. 47,334.

Pat. 2,287,580. Coffee Maker. June 23, 1942. Group 36—21. Reg. No. 47,335.

Pat. 2,287,582. Cover Structure. June 23, 1942. Group 36—21. Reg. No. 47,336.

Pat. 2,287,583. Coffee Maker. June 23, 1942. Group 36—21. Reg. No. 47,337.

Pat. 2,287,584. Coffee Maker. June 23, 1942. Group 36—21. Reg. No. 47,338.

Pat. 2,287,585. Coffee Maker. June 23, 1942. Group 36—21. Reg. No. 47,339.

Pat. 2,291,359. Cooking Device. July 28, 1942. Group 36—21. Reg. No. 47,340.

Pat. 2,316,612. Control Device. Apr. 13, 1943. Group 36—19. Reg. No. 47,341.

Pat. 2,349,612. Heating Device. May 23, 1944. Group 36—21. Reg. No. 47,342.

Pat. 2,367,014. Circuit Controlling Device. Jan. 9, 1945. Group 36—19—21. Reg. No. 47,343.

Pat. 2,393,182. Electric Heater. Jan. 15, 1946. Group 36—21. Reg. No. 47,344.

Pat. 2,403,824. Control Device. July 9, 1946. Group 36—19—21. Reg. No. 47,345.

Pat. 2,420,548. Control Device. May 13, 1947. Group 36—19—21. Reg. No. 47,346.

Pat. 2,428,642. Temperature Control System. Oct. 7, 1947. Groups 33—66; 36—21. Reg. No. 47,347.

Pat. 2,429,453. Bridge Control for Electric Blankets. Oct. 21, 1947. Group 36—19—21. Reg. No. 47,348.

Pat. 2,442,223. Method of Improving the Corrosion Resistance of Chromium Alloys. May 25, 1948. Groups 28—34; 34—72. Reg. No. 47,349.

Pat. 2,475,309. Electric Temperature Control. July 5, 1949. Group 36—19—21. Reg. No. 47,350.

Pat. 2,479,319. Control for Electric Blankets or the Like. Aug. 16, 1949. Group 36—19—21. Reg. No. 47,351.

Pat. 2,528,253. Seal Between Bowls of Vacuum Type Coffee Makers. Oct. 31, 1950. Groups 30—31; 36—21. Reg. No. 47,352.

Pat. 2,530,003. Electric Control Device. Nov. 14, 1950. Group 36—19—21. Reg. No. 47,353.

Pat. 2,573,437. Calibrating Means for Control Devices. Oct. 30, 1951. Groups 36—19; 35—84. Reg. No. 47,354.

THE FOLLOWING 11 PATENTS ARE AVAILABLE FOR NON-EXCLUSIVE LICENSING IN THE FIELD OF RADIO PURPOSES ON REASONABLE TERMS TO DOMESTIC MANUFACTURERS. Group 36—61.

Pat. 2,175,695. Gettering. Oct. 10, 1949. Reg. No. 47,355.

Pat. 2,568,435. Thermal Compensation System. Sept. 18, 1951. Reg. No. 47,356.

Pat. 2,568,441. Extended Range Radio Detection and Ranging System. Sept. 18, 1951. Reg. No. 47,357.

Pat. 2,568,448. Parallax Correction in Color Television. Sept. 18, 1951. Reg. No. 47,358.

Pat. 2,568,456. Electromagnetic Deflection Yoke Structure. Sept. 18, 1951. Reg. No. 47,359.

Pat. 2,568,460. Method of Fabricating Sealed Envelopes. Sept. 18, 1951. Reg. No. 47,360.

Pat. 2,568,471. Electromagnetic Scanning System. Sept. 18, 1951. Reg. No. 47,361.

Pat. 2,573,523. Feedback Amplifier. Oct. 30, 1951. Reg. No. 47,362.

Pat. 2,420,857. Electric Discharge Device Oscillator With Nonlinear Grid Leak Resistor. May 20, 1947. Reg. No. 47,363.

Pat. 2,576,702. Velocity Modulation Electron Discharge Device. Nov. 27, 1951. Reg. No. 47,364.

Pat. 2,577,103. Method of Manufacturing Electrodes. Dec. 4, 1951. Reg. No. 47,365.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 22, 1952

[VOL. 657. No. 4]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 520,735. The Lehon Company, Chicago, Ill. Filed Apr. 15, 1947.

MULE-HIDE

For Crowbars, Pinch Bars, Wrecking Bars, Hatchets, Roofing Knives, Kitchen Tongs, Razor Blades, Bill Hooks.
Claims use since September, 1908.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 1

RAW OR PARTLY PREPARED MATERIALS

Ser. No. 598,728. Lafayette Coal Company, Chicago, Ill. Filed June 7, 1950.



The picture shown on the mark is fanciful. The stippling shown on the drawing is for shading only.
For Coal.
Claims use since June 1, 1949.

Ser. No. 599,723. United States Rubber Company, New York, N. Y. Filed June 24, 1950.

ENSOLITE

For Cellular Plastic Material in Sheet Form Resembling Sponge Rubber.
Claims use since Apr. 21, 1950.

Ser. No. 606,758. Davis Leather Company Limited, Newmarket, Ontario, Canada. Filed Nov. 22, 1950.



Priority is claimed under Sec. 44(d). Canadian application Serial No. 207,907, filed June 26, 1950. Registration No. N. S. 37,634/147, dated June 29, 1950.
For Leather Calf Skins.

Ser. No. 616,630. The General Tire & Rubber Company, Akron, Ohio. Filed July 18, 1951.

LUXON

For Plastic Sheet Material.
Claims use since June 7, 1951.

Ser. No. 616,799. Milwaukee Chaplet & Mfg. Co., Milwaukee, Wis. Filed July 23, 1951.

TRIPOLEX

Applicant claims ownership of Registration No. 275,119.
For Foundry Parting Compound.
Claims use since Dec. 16, 1929.

Ser. No. 616,830. Moran Truck and Implement Company, Durant, Okla. Filed July 23, 1951.

STUFF 'N' THINGS

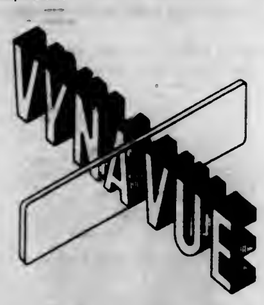
For Seed for Planting Purposes—Namely, Vegetable Seed, Flower Seed, Seed Corn; and Baby Chickens.
Claims use since May 10, 1945.

Ser. No. 616,931. Walter F. Wood, Jr., Holliston, Mass. Filed July 25, 1951.

Stongate

Applicant claims ownership of Registration No. 553,570.
For Hatching Eggs and Baby Chicks.
Claims use since Oct. 5, 1931.

Ser. No. 617,869. Fabric Leather Corp., New York, N. Y. Filed Aug. 20, 1951.



For Plastic Film Sheets Sold by It To Be Used by Others for Use in the Industrial Arts.
Claims use since Nov. 17, 1950.

Ser. No. 617,969. The Philadelphia and Reading Coal and Iron Company, Philadelphia, Pa. Filed Aug. 22, 1951.



Applicant claims ownership of Registration No. 400,348.
For Coal.
Claims use since July 16, 1951.

CLASS 2

RECEPTACLES

Ser. No. 579,377. Worcester Toy Co., Inc., Worcester, Mass. Filed May 23, 1949.



The mark comprises the linked initials "WW" over which appears the notation in script "Worcester Ware." The words "Worcester Ware" are disclaimed.
For Cups, Saucers, Plates, Sugar Bowls, and Creamers, All Molded of Commercial Plastic Materials and Containing no Precious or Semi-Precious Materials or Stones.
Claims use since Sept. 29, 1948.

Ser. No. 582,834. Dee R. Givens, doing business under the name of Givens & Co., Clarendon Hills, Ill. Filed Aug. 2, 1949.

DEE'S Scoop

The word "Scoop" is disclaimed.
For Children's Eating Sets Comprising a Dish of Plastic Material and a Spoon Therefor.
Claims use since May 16, 1949.

Ser. No. 586,951. Brown-Service Funeral Homes Company, Inc., Birmingham, Ala. Filed Oct. 28, 1949.

STANCASCO QUALITY

The word "Quality" is disclaimed.
For Metal and Wood Burial Caskets, and Cases and Boxes Therefor.
Claims use since Jan. 1, 1921.

Ser. No. 609,015. H. Wenzel Tent & Duck Co., St. Louis, Mo. Filed Jan. 19, 1951.

SAHARA

For Water Bags of Flax and of Cotton Duck.
Claims use since 1918.

Ser. No. 611,490. William W. Rice, doing business as Rice Research Laboratories, Chicago, Ill. Filed Mar. 17, 1951.

WONDER-FLO

The word "Flo" is disclaimed.
For Plastic Drinking Cups for Infants and Invalides.
Claims use since Oct. 20, 1950.

Ser. No. 612,262. M. Kamenstein, Inc., Maspeth, N. Y. Filed Apr. 5, 1951.

PantryQueen

Applicant claims ownership of Registration No. 436,105.
For Certain Receptacles Made From Sheet Metal—Namely, Vegetable Bins, Bread Boxes, Roll Top Bread Boxes, Canister Sets, Flour Canisters, Waste Baskets, and Step-on Garbage Cans.
Claims use since May 27, 1947.

Ser. No. 615,784. Marathon Corporation, Rothschild, Wis. Filed June 27, 1951.

MARAPAK

Applicant claims ownership of Registration No. 399,139.
For Paper Cartons.
Claims use since July 2, 1943.

Ser. No. 615,876. C. & E. Marshall Company, Chicago, Ill. Filed June 29, 1951.

PERMATEX

For Hermetically Sealed Plastic Envelope-Like Containers for Small Articles Such as Watch Parts.
Claims use since March 1949.

Ser. No. 619,453. Crown Zellerbach Corporation, San Francisco, Calif. Filed Oct. 1, 1951.

Western

The drawing is stippled for shading.
For Waxed Paper Bags.
Claims use since Feb. 7, 1951.

Ser. No. 619,572. Gulf States Paper Corporation, Tuscaloosa, Ala. Filed Oct. 4, 1951.



The word "White" is disclaimed. The drawing is lined for green. Applicant claims ownership of Registrations Nos. 513,391 and 554,704.
For Paper Bags.
Claims use since Jan. 24, 1950.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 605,058. Revelation Supplies Limited, Chiswick, London, England. Filed Oct. 17, 1950.

REVELATION

Applicant claims ownership of British Registrations Nos. 433,789, 433,790, and 498,990, dated Jan. 31, 1923, Jan. 31, 1923, and Jan. 14, 1929, respectively.
For Suitcases, Week-End Cases, Wardrobe Trunks, Steamer Trunks, Pullman Trunks, Trunks, Overnight Cases, Train Cases, Vanity Cases, Shoe Cases, Wardrobe Cases, Hat Cases, Document Cases, Attaché Cases, Card Cases, Handbags, and Wallets.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 592,528. Harry D. Triantafillu, White Plains, N. Y. Filed Feb. 15, 1950.

BLUE CORAL

Applicant claims ownership of Registrations Nos. 295,850 and 384,438.
For Polish in Liquid and Paste Forms for Automobiles and All Lacquer, Lacquered, Varnished, or Baked Enamel Finishes and All Other Hard Surfaces.
Claims use since July 2, 1927.

Ser. No. 612,716. Wilbert Products Co., Inc., New York, N. Y. Filed Apr. 16, 1951.

Blue Diamond

For Furniture Polish.
Claims use since July 1932.

Ser. No. 614,724. Saint of Sloane Street, Inc., New York, N. Y. Filed June 4, 1951.



For Furniture Polishing Wax.
Claims use since Feb. 3, 1951.

Ser. No. 614,725. Saint of Sloane Street, Inc., New York, N. Y. Filed June 4, 1951.

Saint's

For Furniture Polishing Wax.
Claims use since Feb. 3, 1951.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 593,339. Fiebing Chemical Company, Milwaukee, Wis. Filed Mar. 3, 1950. (Sec. 2f as to "Fiebing's.")

Fiebing's CARE

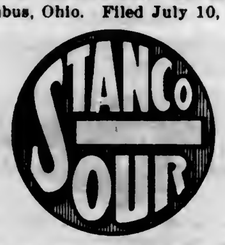
For Leather Wax Dressing and Preservative.
Claims use since November 1949 on the mark as shown; and since 1895 as to the word "Fiebing's."

Ser. No. 594,679. Althouse Chemical Company, Inc., Reading, Pa. Filed Mar. 27, 1950.



The word "Dyes" is disclaimed.
For Dyes and Dyestuffs.
Claims use since Apr. 7, 1938.

Ser. No. 600,456. The Standard Chemical Works Company, Columbus, Ohio. Filed July 10, 1950.



The drawing is lined for shading. The word "Sour" is disclaimed.
For Acidic Laundry Compound for Use as an Alkali Neutralizer.
Claims use since Mar. 16, 1929, on the mark as shown: and since Oct. 1, 1928, as to the word "Stanco."

Ser. No. 602,834. Foote Mineral Company, Philadelphia, Pa. Filed Aug. 28, 1950. (Sec. 2f.)



The words "Mineral Company" are disclaimed. Applicant claims ownership of Registration No. 176,912.
For Chemicals Comprising Cesium Chloride; Lithium Benzoate; Lithium Bromide; Lithium Carbonate; Lithium Chloride; Lithium Citrate; Lithium Fluoride; Lithium Hydroxide; Lithium Naphthenate; Lithium Nitrate; Lithium Stearate; Lithium Sulphate; Lithium Tartrate; Potassium Oxalate; Strontium Carbonate; Strontium Chloride; Strontium Hydroxide; Strontium Oxalate; Strontium Stearate; Strontium Sulphate (Celestite); Strontium Tartrate; Tungstate (Ammonium Para); Tungstic Oxide; Zirconium Oxide; Iron Oxide; Antimony Sulphide; and Iron Sulphide; Manganese Dioxide; Manganese Oxide (Brown); Zirconium Silicate; and Calcium Carbonate.
Claims use since 1943.

Ser. No. 604,914. Knapp-Monarch Company, St. Louis, Mo. Filed Oct. 14, 1950. (Sec. 2f.)

KWIK-MIST

For Dispensers of the Aerosol Type Containing Insecticide.
Claims use since Oct. 3, 1945.

Ser. No. 606,069. The Bell Company, Inc., Chicago, Ill. Filed Nov. 8, 1950.

MAYFAIR

For Automotive Chemical Preparations—Namely, Hydraulic Brake Fluid, Shock Absorber Fluid, Knee-Action Fluid, Liquid Radiator Solder, Rust Inhibitor, Neatsfoot Oil Compound, Clutch Fluid, Fire Extinguisher Fluid, and Liquid Belt Dressing.
Claims use since Aug. 1, 1937.

Ser. No. 607,780. Sterling Industries, Inc., Dallas, Tex. Filed Dec. 16, 1950.



The drawing is lined for shading. The representation of the battery is disclaimed.
For Anti-Corrosive or Corrosion Inhibitor.
Claims use since Nov. 8, 1950.

Ser. No. 613,414. Marbon Corporation, Gary, Ind. Filed May 2, 1951.

MARBON "8000"

For Synthetic Resins Sold in Dry Form for Use as a Molding Powder and for Dry Compounding With Natural and Synthetic Elastomers, Plasticizers, Other Resins, Dyes, and Pigments.
Claims use since Dec. 29, 1948.

Ser. No. 615,337. Milner Products Company, Jackson, Miss. Filed June 18, 1951.

ANTI-K

For Chemical Preparation Designed as a Rat and Mouse Killer.
Claims use since Apr. 19, 1951.

Ser. No. 618,921. General Dyestuff Corporation, New York, N. Y. Filed Sept. 18, 1951.

LUDIGOL

For Chemicals for Use as Textile Assistants in Kier Boiling, Vat Reserving, or in Bucking or Scouring Dyed Textile Material.
Claims use since Feb. 3, 1930.

Ser. No. 618,965. Hercules Powder Company, Wilmington, Del. Filed Sept. 19, 1951.

PEXOL

Applicant claims ownership of Registration No. 329,419.
For Fortified Rosin Size.
Claims use since Aug. 16, 1951.

Ser. No. 620,091. The Dow Chemical Company, Midland, Mich. Filed Oct. 17, 1951.

PREMERGE

For Weed Killing Composition.
Claims use since Feb. 22, 1950.

CLASS 7

CORDAGE

Ser. No. 615,433. American Manufacturing Company, Boston, Mass., and Brooklyn, N. Y. Filed June 20, 1951.

ANCHOR

For Rope, Cord, Lines, and Twine Manufactured From Vegetable Fiber.
Claims use since Feb. 1, 1904.

CLASS 8

SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS

Ser. No. 607,581. Continental Merchandise Co., Inc., New York, N. Y. Filed Dec. 12, 1950.

CONTINENTAL

For Pyrophoric Cigarette and Cigar Lighters, Ash Trays, and Cigarette Boxes.
Claims use since November 1946.

Ser. No. 616,810. L. Batlin & Son, Inc., New York, N. Y. Filed July 23, 1951.

TILSO

For Cigarette and Cigar Lighters and Parts Thereof.
Claims use since July 3, 1951.

CLASS 10

FERTILIZERS

Ser. No. 614,427. Ralph W. Dickenson, doing business as Organic Service Co., Anaheim, Calif. Filed May 28, 1951.

Pent-a-vate

For Organic Liquid Preparation for Improving the Condition of the Soil.
Claims use since Nov. 6, 1948.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 596,657. Arthur H. Dunlap, doing business as Dunlap Manufacturing Co., Seattle, Wash. Filed May 1, 1950.

BEADEX

For Corner Bead Used as a Building Foundation and Employed in Dry Wall Construction.
Claims use since June 1, 1949.

Ser. No. 610,357. Baltimore Porcelain Steel Corporation, Baltimore, Md. Filed Feb. 21, 1951.

MIRATILE

Applicant claims ownership of Registration No. 529,372.
For Porcelain Enameled Metallic Wall Coverings—Namely, Laminated Panels and Walls.
Claims use since Oct. 16, 1949.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 580,644. Claremont F. Clure, doing business as Delta Engineering Sales Company, Shreveport, La. Filed June 17, 1949.

DELTA

For Lubricant Plug Valves.
Claims use since May 1, 1945.

Ser. No. 611,510. Fiat Metal Manufacturing Company, Franklin Park, Ill. Filed Mar. 19, 1951.

FIAT

Applicant claims ownership of Registration No. 129,154.
For Shower Cabinets, Shower Receptors, and Shower Accessories—Namely, Shower Valves, Soap Dishes, and Grab Rails.
Claims use since Oct. 3, 1950.

Ser. No. 612,582. Bell & Gossett Company, Morton Grove, Ill. Filed Apr. 13, 1951.

DYNA-DISC

The word "Disc" is disclaimed.
For Flow Control Valves.
Claims use since Mar. 2, 1951.

Ser. No. 615,473. Aluminum Company of America, Pittsburgh, Pa. Filed June 21, 1951.

UTILITUBE

For Metal Tubing.
Claims use since May 17, 1951.

Ser. No. 616,357. Bell & Gossett Company, Morton Grove, Ill. Filed July 12, 1951.

ORIFLO

For Adjustable Valve for Regulating Flow Through a Selected Part of a Heating System.
Claims use since May 5, 1951.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 535,543. Kurfees Paint Co., Louisville, Ky., by change of name from J. F. Kurfees Paint Company. Filed Sept. 24, 1947. (Sec. 2f—Additional evidence.)

INNER-PRIME

Applicant claims ownership of Registration No. 380,252.
For Prepared or Ready-Mixed Liquid Undercoat Paints for Interior Surfaces.
Claims use since Apr. 12, 1939.

Ser. No. 566,639. Monsanto Chemical Company, St. Louis, Mo. Filed Oct. 7, 1948.

LUSTRON

For Synthetic Resins in Solution and Emulsion Forms and in the Nature of Paints, Varnishes, or Lacquers for Coating, Impregnating, Sizing, or Waterproofing Wood and Wooden Surfaces and for Protective or Decorative Coatings in the Nature of Paints, Varnishes, or Lacquers on All Kinds of Surfaces Where Paints, Varnishes, or Lacquers Are Generally Used.
Claims use since July 14, 1948.

Ser. No. 572,606. The Tropical Paint & Oil Company, Cleveland, Ohio. Filed Jan. 22, 1949.

CHEMICOLOR

For Ready Mixed Air Drying Enamels.
Claims use since Nov. 3, 1947.

Ser. No. 577,680. Paint Products Corporation, Elgin, Ill. Filed Apr. 25, 1949.

PRO
"The Professional Line"

The notation "The Professional Line" is disclaimed.
For Paint of the Type That Is Generally Known in the Trade as Architectural or Trade Sales Finishes, for Interior and Exterior Painting—Namely, Wall Paint Finishes, Floor Paint Finishes, Exterior House Paint Finishes, Cement Finishes for Use on Cement Surfaces, Porch and Deck Finishes, Trim and Trellis Finishes; Varnish, and Lacquers.
Claims use since Aug. 2, 1946.

Ser. No. 584,788. Aktiebolaget Wallco, Stockholm, Sweden. Filed Sept. 14, 1949.

SWIX

Applicant claims ownership of Swedish Registrations Nos. 60,829, dated Feb. 8, 1946, and 62,038, dated Nov. 15, 1946.
For Ski Waxes.

Ser. No. 615,781. Ralph D. Kelley Paint Company, Chicago, Ill. Filed June 27, 1951.

KELO KOTE

The word "Kote" is disclaimed.
For House Paint.
Claims use since Feb. 22, 1941.

Ser. No. 618,824. The Springdale Shellac Company, Inc., Springdale, Conn. Filed Sept. 14, 1951.

SPRING-LAC

The word "Lac" is disclaimed.
For Shellac Products—Namely, Pigmented Shellacs.
Claims use since June 29, 1948.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 596,582. The S. E. Massengill Company, Bristol, Tenn. Filed Apr. 29, 1950.

BETHIROID

For Pharmaceutical Preparation Indicated for Treatment of Hypothyroidism and Other Conditions in Which Thyroid Medication Is Used.
Claims use since Dec. 13, 1944.

Ser. No. 599,111. Paraderm Laboratories, Inc., Boston, Mass. Filed June 14, 1950.

Auxiloderm

For Ointment for Use in Treating Dermatological Conditions of an Infectious or Anti-Pruritic Nature.
Claims use since February 1949.

Ser. No. 608,505. Madison Research Laboratory, Pasadena, Calif. Filed Jan. 8, 1951.

Soymol

For Oral Treatment of Eczema and Allergic Dermatitis.
Claims use since July 7, 1950.

Ser. No. 613,899. Dorothy M. Carbonaro, doing business as Vita Laboratories, Auburn, N. Y. Filed May 16, 1951.

SALSNOL

For Formula for the Treatment of Arthritis.
Claims use since June 21, 1948.

Ser. No. 613,900. Dorothy M. Carbonaro, doing business as Vita Laboratories, Auburn, N. Y. Filed May 16, 1951.

VITAPHYLLIN

For Formula for the Treatment of Coronary Disease.
Claims use since June 24, 1938.

Ser. No. 614,717. The Sydney Ross Co., Newark, N. J. Filed June 4, 1951.

SONRISAL

For Effervescent Analgesic Preparation.
Claims use since Nov. 16, 1950.

Ser. No. 617,433. Boyle and Company, Los Angeles, Calif. Filed Aug. 8, 1951. (Sec. 2f.)

vita-health

Applicant claims ownership of Registration No. 432,769.
For Multiple Vitamin and Mineral Tablets.
Claims use since June 1, 1939.

Ser. No. 617,549. Model-Etts Corp., New York, N. Y. Filed Aug. 10, 1951.

MODEL-ETTS

For Medicinal Tablets Effective in Reducing the Desire for Food.
Claims use since July 12, 1951.

Ser. No. 617,565. The Upjohn Company, Kalamazoo, Mich. Filed Aug. 10, 1951.

Teatube

For Antibiotic Veterinary Ointment.
Claims use since Apr. 4, 1951.

Ser. No. 617,585. Eli Lilly and Company, Indianapolis, Ind. Filed Aug. 11, 1951.

CLOPALENE

Applicant claims ownership of Registration No. 534,326.
For Medicinal Preparation of Cyclopentamine and Isopropylarterenol Hydrochloride Used in the Treatment of Asthma.
Claims use since Jan. 24, 1951.

Ser. No. 617,586. Eli Lilly and Company, Indianapolis, Ind. Filed Aug. 11, 1951.

MALETOIN SODIUM

The word "Sodium" is disclaimed.
For Medicinal Preparation of Phethenylate Sodium Used as an Antiepileptic Drug With Anticonvulsant Activity.
Claims use since Nov. 8, 1950.

CLASS 19

VEHICLES

Ser. No. 506,819. Lyon, Incorporated, Detroit, Mich. Original filed, act of 1905, Aug. 3, 1946; amended to application under act of 1946, Principal Register, Oct. 12, 1948. (Sec. 2f—Additional evidence.)

Lyon WHITEWALLS

For Ornamental Discs or Rings for Automobile Wheels.
Claims use since Mar. 15, 1946, as to the mark shown; and since June 1, 1941, as to the mark "White Walls."

Ser. No. 506,820. Lyon, Incorporated, Detroit, Mich. Original filed, act of 1905, Aug. 3, 1946; amended to application under act of 1946, Principal Register, Oct. 12, 1948. (Sec. 2f—Additional evidence.)

WHITEWALLS

For Ornamental Discs or Rings for Automobile Wheels.
Claims use since Mar. 15, 1946.

Ser. No. 579,976. Henney Motor Company, Inc., Freeport, Ill. Filed June 4, 1949. (Sec. 2f.)

NU-3-WAY

Applicant claims ownership of Registration No. 303,235.
For Motor Driven Ambulances, Hearses, Funeral Coaches, Combination Funeral Cars and Trucks, Flower Cars, Service Cars, and Other Specialized Motor Vehicles—Namely, Airport Limousines and Special Vehicles for Cripples.
Claims use since Oct. 28, 1927.

Ser. No. 581,135. The George C. Knight Company, Detroit, Mich. Filed June 27, 1949.

Crusader

For Rear View Mirrors for Motor Vehicles.
Claims use since January 1949.

Ser. No. 590,302. Champion Seat Cover Co., Inc., Philadelphia, Pa. Filed Jan. 4, 1950.

CHAMPION

For Seat Covers for Automobiles.
Claims use since 1929.

Ser. No. 595,139. Hot-Rod Co., Ltd., Los Angeles, Calif. Filed Apr. 3, 1950.

HOT-ROD

The representation of the goods is disclaimed.
For Bicycle Accessories in the Nature of Devices Applicable to Bicycles To Produce Sounds in Imitation of the Exhaust of an Internal Combustion Engine.
Claims use since Feb. 9, 1950.

Ser. No. 599,019. The Raleigh Cycle Co. Limited, Nottingham, England. Filed June 13, 1950.

VICTOR NOTTINGHAM ENGLAND STANDARD

Applicant claims ownership of British Registration No. 448,342, dated May 14, 1924.
For Bicycles.

CLASS 20

LINOLEUM AND OILED CLOTH

Ser. No. 618,200. Armstrong Cork Company, Lancaster, Pa. Filed Aug. 29, 1951.

Quakertex

Applicant claims ownership of Registration No. 414,804.
For Enameled Surface Textured Wall Covering Having a Resin Saturated Felt Backing.
Claims use since Aug. 21, 1951.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 549,002. H. H. Robertson Company, Pittsburgh, Pa. Filed Feb. 6, 1948. (Sec. 2f.)

ROBERTSON

For Protected Sheet-Metal Electric Wiring Conduits for Use in Enclosing the Wires of the Wiring System Therein To Protect the Same From the Weather, and Further To Provide a Concealed Fireproof Wiring System Within a Building.
Claims use since Sept. 1, 1935.

Ser. No. 578,374. Columbian Steel Tank Company, Kansas City, Mo. Filed May 7, 1949. (Sec. 2f.)

COLUMBIAN

Applicant claims ownership of Registrations Nos. 418,422 and 419,469.
For Electric Switch Cabinets; Electric Knockout Boxes, and Transformer Cabinets.
Claims use since June 1, 1941.

Ser. No. 604,170. Van Cleef Bros., Inc., Chicago, Ill. Filed Sept. 28, 1950.

DUTCH BRAND

The drawing is lined for orange-red. The word "Brand" is disclaimed. The portrait shown is that of Dee Balla, whose consent is of record. Applicant claims ownership of Registration No. 194,819.
For Electrician's Tape for Electrical Insulatory Purposes.
Claims use since January 1911.

Ser. No. 607,320. Dunbar Glass Corporation, Dunbar, W. Va. Filed Dec. 6, 1950. (Sec. 2f as to "Dunbar.")

DUNBAR

Applicant claims ownership of Registration No. 541,004.
For Glass Chimneys, Shades, Globes, Bowls, Troughs, Domes, Cylinders, Breaks, Fonts, Spindles, Bases, Stems, Columns, and Prisms for Use in Electrical Lighting Fixtures and Lamps; Glass Stand-Off Insulators for Use in Electrical Circuits Mounted on Metal Chassis; Glass Pole Insulators; Glass Tension Insulators.
Claims use since Nov. 1, 1947; and since July 1, 1923, as to "Dunbar."

Ser. No. 607,883. Circle "S" Products Co., Inc., Chicago, Ill. Filed Dec. 18, 1950.

STAR-LITE

The word "Lite" is disclaimed.
For Photographic Camera and Lamp Holders Adapted To Be Held by the Hand or Mounted on a Tripod To Hold a Camera and a Plurality of Flood Lamps for the Purpose of Taking Motion Pictures.
Claims use since Dec. 16, 1947.

Ser. No. 610,410. Circle "S" Products Co., Inc., Chicago, Ill. Filed Feb. 23, 1951.

CIRCLE-LITE

The word "Lite" is disclaimed. Applicant claims ownership of Registration No. 517,596.
For Photographic Lamp Holders Adapted To Be Held by the Hand or Mounted on a Tripod To Hold a Camera and a Plurality of Flood Lamps for the Purpose of Taking Motion Pictures.
Claims use since Dec. 16, 1947.

Ser. No. 610,439. Given Manufacturing Co., Los Angeles, Calif. Filed Feb. 23, 1951.

Dish King

For Electrically Operated Automatic Dish Washers.
Claims use since Jan. 24, 1951.

Ser. No. 610,876. The Valdale Company, Inc., Asheville, N. C. Filed Mar. 5, 1951.

Marvelrest

For Electric Blankets, Comforters, Sheets, Foot-Warmers, and Bed-Warmers.
Claims use since Feb. 1, 1951.

Ser. No. 613,945. Photocircuits Corporation, Glen Cove, N. Y. Filed May 16, 1951.

PC

For Electric Circuit Components Comprising Metallic Conductors Supported on an Insulating Base and Switches.
Claims use since Mar. 7, 1951.

Ser. No. 617,668. Marlun Manufacturing Co., Inc., New York, N. Y. Filed Aug. 14, 1951.

black angus
rotisserie

The word "Rotisserie" is disclaimed. Applicant claims ownership of Registration No. 540,182.
For Electric Broilers and Roasters.
Claims use since Apr. 27, 1951.

Ser. No. 618,149. M. D. Brown Company, Niles, Mich. Filed Aug. 28, 1951.

Scoremaster

For Electric Scoreboard for Use in Schools, School Gymnasiums, School Stadia, and Athletic Fields, Which Includes Electric Scoring and Timing Mechanism.
Claims use since Oct. 15, 1947.

Ser. No. 618,231. De-Bug-er, Inc., Madison, Wis. Filed Aug. 30, 1951.

DE-FLY-ER

The word "Fly" is disclaimed.
For Electrically Heated Insecticide Vaporizers.
Claims use since Sept. 15, 1950.

CLASS 22

GAMES, TOYS, AND SPORTING GOODS

Ser. No. 572,164. Chicago Roller Skate Company, Chicago, Ill. Filed Jan. 14, 1949.

SILENT FLASH

For Roller Skates.
Claims use since Aug. 30, 1930.

Ser. No. 597,920. The Sun Rubber Company, Barberton, Ohio. Filed May 22, 1950.

"So-Wee"

For Dolls.
Claims use since Apr. 14, 1950.

Ser. No. 600,400. South Bend Bait Company, South Bend, Ind. Filed July 8, 1950.

GOPLUNK

For Fishing Tackle, Particularly Artificial Fishing Lures.
Claims use since June 16, 1950.

Ser. No. 600,521. William S. Walker, El Monte, Calif. Filed July 11, 1950.

"LITTLE AB"

The word "Little" is disclaimed.
For Artificial Fishing Lures.
Claims use since Apr. 2, 1950.

Ser. No. 605,586. Alma P. Hickman, Decatur, Ga. Filed Oct. 30, 1950.

BILLIE BUTTON

Applicant claims ownership of Registration No. 177,478.
For Cloth Dolls.
Claims use since Dec. 1, 1921.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 569,173. Printing Equipment Corporation, Joliet, Ill. Filed Nov. 20, 1948.

PĒCO

For Printing Equipment—Namely, Printing Chases, Printing Form Tables.
Claims use since Mar. 30, 1948.

Ser. No. 578,879. J. M. Lehmann Company, Inc., Lyndhurst, N. J. Filed May 14, 1949.

LEHMANN CDM ROLLS

The words "Lehmann" and "Rolls" are disclaimed.
For Metal Rolls Used in Roller Mill Machinery for the Production of Paint, Ink, Soap and Chocolate, the Rolls Being Essentially Hollow Cylinders Mounted on Shafts or Trunnions.
Claims use since Apr. 11, 1949.

Ser. No. 580,769. Robert C. Chattin, doing business as Chattin Ditcher Company, Boise, Idaho. Filed June 20, 1949. (Sec. 2f.)

Chattin

The drawing is lined for red. Applicant claims ownership of Registration No. 266,899.
For Ditchers, Plows, Ground-Cultivating Tools, and Parts Thereof.
Claims use since Jan. 20, 1944.

Ser. No. 594,525. Dearborn Motors Corporation, Highland Park, Mich. Filed Mar. 24, 1950. (Sec. 2f—Additional evidence.)

DEARBORN PEORIA

Applicant claims ownership of Registrations Nos. 516,666, 517,011, 521,728, and others.
For Grain Drills, Grass Seeding Attachments for Grain Drills, and Service Parts for Grain Drills and/or Grass Seeding Attachments.
Claims use since Jan. 12, 1950.

Ser. No. 606,456. Davis & Thompson Company, West Allis, Wis. Filed Nov. 16, 1950.

Roto-Matic

Applicant claims ownership of Registration No. 249,532.
For Metal Working Machines—Namely, Drilling Machines, Milling Machines, Boring Machines, Reaming Machines, Pipe-Threading Machines, Tapping Machines, Combined Drilling and Reaming Machines, Combined Drilling and Tapping Machines, Multiple Spindle Lathes, Combined Milling and Center-Drilling Machines, Combined Milling, Drilling, and Tapping Machines, Combined Milling and Spinning Machines, and Multiple Operation Machines for Performing Various Operations Such as Drilling, Chamfering, Reaming, and Sawing.
Claims use since Oct. 20, 1923.

Ser. No. 610,171. Charles H. Fischberg & Sons, New York, N. Y. Filed Feb. 16, 1951.

C. H. Fischberg

For Stainless Steel Kitchenware and Flatware—Namely, Knives, Forks, and Spoons.
Claims use since Mar. 1, 1950.

Ser. No. 610,473. Talon Tools, North Arlington, N. J. Filed Feb. 23, 1951.

TALON TOOLS

The word "Tools" is disclaimed.
For Flaring Tools, Soil Pipe Cutters, Soil Pipe Vises, Soil Pipe Chain Wrenches, Combination Swedging Tools for Copper Tubing and Pipes, Pipe and Union Valve Nipple Wrenches, Nut Wrenches, and Cutter Wheels.
Claims use since July 14, 1950.

Ser. No. 610,908. Japan America Trading Agency, Inc., Los Angeles, Calif. Filed Mar. 6, 1951.

Golden Star

For Sewing Machines.
Claims use since January 1951.

Ser. No. 613,345. Precision Automotive Components Co., St. Louis, Mo. Filed Apr. 30, 1951.

PRECISION PACCO

The word "Precision" is disclaimed.
For Carburetor Repair Parts Packaged Both by Type and in Assortments Designated Repair Kits—Namely, Throttle and Lever Assemblies, Plunger and Rod Assemblies, Pump Springs and Connector Links, Step-Up Piston, Plate and Rod Assemblies, Idle Orifice Tube and Plug Assemblies, Pump Jets, Check and Cylinder Balls, Metering Jet Assemblies; Jet Tubes, Needle and Seat Assemblies, Idle Adjustments, Throttle Valves and Levers; and Choke Assemblies and Controls.
Claims use since Nov. 15, 1947, as shown; and since Dec. 15, 1946, as to "Pacco."

Ser. No. 617,827. Alfred E. Walters, doing business as Epi-Carve, Seattle, Wash. Filed Aug. 17, 1951.

Epi-CARVE

The word "Carve" is disclaimed.
For Knives.
Claims use since Nov. 10, 1949.

Ser. No. 618,260. Ingersoll-Rand Company, Phillipsburg, N. J., and New York, N. Y. Filed July 2, 1951. (Sec. 2f.)

LEAKOLLECTOR

Applicant claims ownership of Registration No. 432,340.
For Stuffing Boxes for Hydraulic Pumps.
Claims use since Dec. 1, 1945.

Ser. No. 620,137. Bankers Box Company, Chicago, Ill. Filed Oct. 18, 1951.

Liberty

Applicant claims ownership of Registrations Nos. 194,528, 321,922, and 437,988.
For Copyholders Useable by Stenographers and Others.
Claims use since Oct. 12, 1946.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Ser. No. 614,251. Helpy Selfy Service System, Inc., Fort Lauderdale, Fla. Filed May 23, 1951.

UNI-MAC

For Clothes Washing Machines.
Claims use since Mar. 1, 1951.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 573,525. Bulova Watch Company, Inc., New York, N. Y. Filed Feb. 9, 1949. (Sec. 2f—Additional evidence.)

PHOTOTIMER

Applicant claims ownership of Registrations Nos. 226,889, 184,904, and 544,537.
For Photographic Recorder—Namely, a Combination of Photographic Apparatus and Electrical Time Recorder for Use More Particularly in Photographing and Recording the Exact Order of Finish of Contestants in a Race and of the Elapsed Time of Each Contestant.
Claims use since Jan. 17, 1948.

Ser. No. 595,637. Standard Gage Company, Inc., Poughkeepsie, N. Y., and elsewhere. Filed Mar. 24, 1950.

Dializer

For Limit Gages of the Type Commonly Known as Snap Gages and Provided With a Dial Indicator.
Claims use since Feb. 21, 1950.

Ser. No. 613,695. Aldens, Inc., Chicago, Ill. Filed May 10, 1951.

SERVICE-CRAFT

For Rafter Framing Squares, Try Squares and All Squares; Wood, Metal, and Composition, Folding and Non-Folding Rules; Marking Gauges; Metal and Fabric Measuring Tapes; Carpenters' and Mechanics' Levels and Plumbs; and a Combination Inside and Outside Try Square, Depth Gauge, Ruler, Level, and Plumb.
Claims use since July 1, 1950.

Ser. No. 613,696. Aldens, Inc., Chicago, Ill. Filed May 10, 1951.

BENCH-CRAFT

For Rafter Framing Squares, Try Squares and All Squares; Wood, Metal, and Composition, Folding and Non-Folding Rules; Marking Gauges; Metal and Fabric Measuring Tapes; Carpenters' and Mechanics' Levels and Plumbs; and a Combination Inside and Outside Try Square, Depth Gauge, Ruler, Level, and Plumb.
Claims use since July 1, 1950.

Ser. No. 619,925. Da-Lite Screen Company, Inc., Chicago, Ill. Filed Oct. 12, 1951.

HILO

For Motion Picture Screens.
Claims use since Jan. 2, 1950.

Ser. No. 620,213. Heli-Coil Corporation, Danbury, Conn. Filed Oct. 19, 1951.

H.C.

For Gages for Use in Screw Connections With or Without Wire Thread—Namely, Screw Thread Gages and Flush Gages.
Claims use since 1939.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 612,444. Clinton Watch Co., Chicago, Ill. Filed Apr. 10, 1951. (Sec. 2f.)

ESSEX

For Watches and Watch Movements.
Claims use since June 5, 1942.

Ser. No. 617,190. Henry Ginnel & Co., New York, N. Y. Filed Aug. 1, 1951.

HENRY GINNEL

The name "Henry Ginnel" is fanciful and is not the name of any particular living individual.
For Watches.
Claims use since July 25, 1951.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 608,610. Keith & Grifman, Boston, Mass. Filed Jan. 10, 1951.

PHANCAR

For Jewelry—Namely, Earrings, Bracelets, Pendants, Chokers, Lockets, Pearl Necklaces, Stick Pins, Finger Rings of All Kinds, Crosses for Personal Wear, and Tie Clasps and Emblem or Organization Pins Made of or Plated With Precious Metal or Decorated With Precious Stones.
Claims use since Jan. 1, 1945.

Ser. No. 617,385. Advance Aluminum Castings Corp., Chicago, Ill. Filed Aug. 7, 1951.

Family Pride

For Knives, Forks, Spoons, Butter Spreaders, Gravy Ladles, and Pastry Servers, All Made Partly or Wholly of Silver.
Claims use since July 13, 1951.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 595,174. Victor Equipment Company, San Francisco, Calif. Filed Apr. 3, 1950.

VICTOR

For Air Filters for Pneumatic Equipment.
Claims use since June 15, 1949.

Ser. No. 607,288. Heat Exchangers, Inc., Chicago, Ill. Filed Dec. 5, 1950.

KOLDWAVE

For Refrigerating Type Liquid Coolers.
Claims use since May 5, 1947.

Ser. No. 619,800. Carter Carburetor Corporation, St. Louis, Mo. Filed Oct. 10, 1951. (Sec. 2f.)

CARTER

The drawing is lined for green but coloring is not essential.
For Liquid Fuel Filters and Parts Thereof.
Claims use since July 1935.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 577,266. The Hettrick Manufacturing Company, Toledo, Ohio. Filed Apr. 16, 1949. (Sec. 2f as to "Hettrick.")

HETTRICK
House Beautiful

Applicant claims ownership of Registration No. 507,601.
For Dinette Tables and Chairs.
Claims use since Jan. 21, 1949, on the mark as shown; and since November 1937 as to the word "Hettrick."

Ser. No. 600,991. Smokador Manufacturing Co., Inc., Bloomfield, N. J. Filed July 20, 1950.

HOMADOR

For Smoking Stands.
Claims use since June 21, 1950.

Ser. No. 608,282. Modern Upholstered Chair Company Inc., Morristown, Tenn. Filed Jan. 2, 1951.



The representation of the man is fanciful.
For Chairs.
Claims use since July 1950.

Ser. No. 609,030. Custom Built Fixtures, Inc., Chicago, Ill. Filed Jan. 20, 1951.

VISU-Flex

For Merchandise Display Cases.
Claims use since Nov. 15, 1949.

Ser. No. 615,353. Selected Specialties Co., Kansas City, Kans. Filed June 18, 1951.

Mother's Pal

For Infants' and Juveniles' Chairs.
Claims use since Dec. 5, 1950.

Ser. No. 616,189. Sanitary Mattress Company, Los Angeles, Calif. Filed July 6, 1951.

REST-A-PEDIC

For Mattresses.
Claims use since June 18, 1951.

Ser. No. 618,599. Isidor Schwartz, doing business as I. Schwartz Glass & Mirror Co., New York, N. Y. Filed Sept. 10, 1951.

SEACREST

For Decorated Mirrors.
Claims use since Jan. 9, 1950.

Ser. No. 618,807. Logan Co., Louisville, Ky. Filed Sept. 14, 1951.

DREAM BOAT

For Innerspring Mattresses.
Claims use since July 27, 1951.

Ser. No. 618,808. Logan Co., Louisville, Ky. Filed Sept. 14, 1951.

DREAM BOAT



For Innerspring Mattresses.
Claims use since July 27, 1951.

Ser. No. 619,015. Carmelo Gugino, Jr., doing business as The Dormalux Company, Buffalo, N. Y. Filed Sept. 20, 1951.



For Furniture—Namely, Tables and Chairs.
Claims use since Mar. 20, 1951.

Ser. No. 619,016. Carmelo Gugino, Jr., doing business as The Dormalux Company, Buffalo, N. Y. Filed Sept. 20, 1951.

dormalux

For Furniture—Namely, Tables and Chairs.
Claims use since Mar. 20, 1951.

Ser. No. 619,660. United States Bedding Company, St. Paul, Minn. Filed Oct. 5, 1951.

EQUIPOISE

For Mattresses, Box Springs, Upholstery Cushions, and Studio Couches.
Claims use since Aug. 8, 1951.

Ser. No. 619,671. Goldsmith Bros., New York, N. Y. Filed Oct. 6, 1951.

GLIDE-O-MATIC

For Filing Cabinets.
Claims use since June 21, 1951.

Ser. No. 619,746. Design Fabricators, Inc., Chicago, Ill. Filed Oct. 9, 1951.

Atease

For Chairs.
Claims use since Aug. 1, 1951.

CLASS 33

GLASSWARE

Ser. No. 563,540. Wil-Nes Mfg. Co., New York, N. Y. Filed July 15, 1948.

WIL-NES

For Fish Bowl or Miniature Aquarium—Namely, a Glass Compartment With Electrical Attachments, Used for Displaying Fish.
Claims use since July 1, 1946.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 591,149. Cribben and Sexton Company, Chicago, Ill. Filed Jan. 20, 1950. (Sec. 2f—Additional evidence.)

SHELBURNE

For Stoves and Ranges.
Claims use since July 5, 1949.

Ser. No. 601,260. Food Machinery and Chemical Corporation, San Jose, Calif. Filed July 26, 1950.

Sterilmatic

For Preheaters, Cookers and Coolers Utilized as a Unitary System in the Processing of Canned Goods.
Claims use since June 8, 1950.

CLASS 36

MUSICAL INSTRUMENTS AND SUPPLIES

Ser. No. 609,014. S. S. Weiss, doing business as Circle Record Co., San Francisco, Calif. Filed Jan. 19, 1951.

fantasy

For Grooved Phonograph Records.
Claims use since June 29, 1950.

CLASS 37

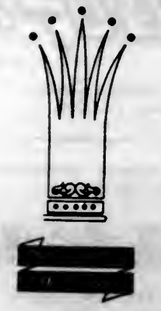
PAPER AND STATIONERY

Ser. No. 519,201. Lee Paper Company, Vicksburg, Mich. Original filed, act of 1905, Mar. 18, 1947; amended to application under act of 1946, Principal Register, Apr. 21, 1948. (Sec. 2f as to "Lee.")

Lee Laurel Vellum

The word "Vellum" is disclaimed. Applicant claims ownership of Registrations Nos. 384,364 and 368,172.
For Smooth Calendered Rag Content Paper Particularly Adapted for Wedding Cards, Fine Stationery, and the Like, and Papeteries.
Claims use since 1928 as to the mark "Lee"; and since Aug 7, 1946, as to the mark shown.

Ser. No. 526,026. Western Tablet & Stationery Corporation, Dayton, Ohio. Original filed, act of 1905, July 3, 1947; amended to application under act of 1946, Principal Register, Sept. 27, 1951.



For Papeteries, i. e., Stationery Comprising Envelopes and/or Paper Either Flat or Folded Put Up in Boxes, Portfolios, or Banded Packages.
Claims use since July 8, 1946.

Ser. No. 542,012. Crown Zellerbach Corporation, also doing business as National Paper Products Co. and Nata Products Company, San Francisco, Calif. Filed Nov. 22, 1947.

Sorbette

For Paper Napkins, Paper Towels, and Toilet Tissue.
Claims use since October 1936.

Ser. No. 543,625. The McBee Company, Athens, Ohio. Filed Dec. 6, 1947. (Sec. 2f.)

Athenian



Ledger

The word "Ledger" is disclaimed. Applicant claims ownership of Registrations Nos. 196,695, 196,696, and others.
For Stationery — Namely, Letter Paper, Leaves for Loose Leaf Files, Printed Blanks, and Similar Sheets of Blank Paper.
Claims use since Mar. 1, 1924.

Ser. No. 570,035. Associated Drawing Materials & Equipment Limited, London, England. Filed Dec. 6, 1948.

ADMEL

Applicant claims ownership of British Registration No. 653,368, dated Nov. 6, 1946.
For Cardboard, Pens, Pencils, Drawing Pins; Writing Erasers; and Stencils.

Ser. No. 576,683. Capital Paper Company, Indianapolis, Ind. Filed Apr. 6, 1949. (Sec. 2f.)

KEEP KLEEN

For Parchment Paper in Rolls and Sheets.
Claims use since Nov. 1, 1918.

Ser. No. 585,374. Facile Corporation, Paterson, N. J. Filed Sept. 27, 1949.

facil-fab

Applicant claims ownership of Registrations Nos. 409,244 and 410,056.
For Laminated Sheets in Which a Woven Layer of Rayon or Unwoven Threads of Rayon or Fibers of Fiberglass or Yarn Are Laminated to a Backing of Paper or Cellophane for Decorative Wrapping Purposes.
Claims use since October 1947.

Ser. No. 608,142. Dorothy Foster Barbee, Little Rock, Ark. Filed Dec. 28, 1950.

"DOTTIEMADE" Originals

The word "Originals" is disclaimed.
For Hand Made Place Cards.
Claims use since Mar. 5, 1949.

Ser. No. 608,226. Sondon Systems Corporation, Red Bank, N. J. Filed Dec. 29, 1950.

Snip-Snap

The word "Snap" is disclaimed.
For Index Card Tabs.
Claims use since Sept. 15, 1950.

Ser. No. 608,347. Flagstaff Foods, Perth Amboy, N. J. Filed Jan. 4, 1951.

FLAGSTAFF

For Toilet Tissue, Paper Napkins, and Paper Towels.
Claims use since 1939.

Ser. No. 614,231. William B. Wilkins, Palm Beach, Fla. Filed May 22, 1951.

THE MEDICAL CONCISEULATOR

The word "Medical" is disclaimed.
For Partially Printed Hospital Charts.
Claims use since Jan. 16, 1951.

Ser. No. 615,569. Ralph Petersohn, Norristown, Pa. Filed June 22, 1951.

POPULAR

For Partially Printed Forms—Namely, Money Orders.
Claims use since June 13, 1951.

Ser. No. 615,570. Ralph Petersohn, Norristown, Pa. Filed June 22, 1951.

SUNSHINE

For Partially Printed Forms—Namely, Money Orders.
Claims use since June 13, 1951.

Ser. No. 616,962. Montag Brothers, Inc., Atlanta, Ga. Filed July 26, 1951.



The word "Laid" and the surname "Montag's" are disclaimed. Applicant claims ownership of Registrations Nos. 508,702, 520,558, 539,798, and 550,605.
For Boxed Papeteries, Open Stock Paper and Correspondence or Mailing Envelopes.
Claims use since Mar. 1, 1931.

Ser. No. 616,963. Montag Brothers, Inc., Atlanta, Ga. Filed July 26, 1951.



The words "Rag Content" and "For Air Mail" and the surname "Montag's" are disclaimed. Applicant claims ownership of Registrations Nos. 508,702, 520,558, 539,798, and 550,605.
For Boxed Papeteries, Open Stock Paper and Correspondence or Mailing Envelopes.
Claims use since Jan. 2, 1950.

Ser. No. 616,964. Montag Brothers, Inc., Atlanta, Ga. Filed July 26, 1951.



The words "Rag Content" and the surname "Montag's" are disclaimed. The drawing is lined for the colors red and blue. Applicant claims ownership of Registrations Nos. 508,702, 520,558, 539,798, and 550,605.

For Boxed Papeteries, Open Stock Paper and Correspondence or Mailing Envelopes.

Claims use since Apr. 1, 1940.

Ser. No. 617,067. Visor Pak Tissue Company, Herkimer, N. Y. Filed July 27, 1951.

VISOR PAK

The word "Pak" is disclaimed.

For Paper Boxes Filled With Facial Tissue, and Constructed To Be Supported on Automobile Sun Shields.

Claims use since Feb. 26, 1951.

Ser. No. 617,085. S. H. Kress and Company, New York, N. Y. Filed July 28, 1951.



The drawing is lined for red and green. Applicant claims ownership of Registration No. 290,853.

For Writing Tablets, Albums, Composition Books, Notebooks, Writing Paper, Correspondence Cards, Correspondence Envelopes, Wrapping Paper, Paper Towels, Toilet Paper, Facial Tissue, Paper Napkins, Paper Handkerchiefs, Waxed Paper, Pen Holders, Fountain Pens, Pencils, Crayons, Pen Points, Rubber Erasers, File Guides, and Loose-Leaf Binders.

Claims use since 1921.

Ser. No. 619,357. Pollock Paper Corporation, Dallas, Tex. Filed Sept. 28, 1951. (Sec. 2f.)

HY-GLOSS

Applicant claims ownership of Registration No. 292,215.

For Waxed Wrapping Paper.

Claims use since January 1931.

CLASS 38

PRINTS AND PUBLICATIONS

Ser. No. 579,981. Marilyn B. Kolber, Chicago, Ill. Filed June 4, 1949.



For Newspaper Column Devoted to Neighborhood Shopping Information.

Claims use since Feb. 18, 1949.

Ser. No. 584,380. Army and Navy Publishing Company, Inc., Washington, D. C. Filed Sept. 2, 1949. (Sec. 2f—Additional evidence.)

THE ARMY-NAVY AIR FORCE REGISTER

Applicant claims ownership of Registration No. 22,896.

For Newspaper Published Weekly.

Claims use since Jan. 1, 1949.

Ser. No. 603,803. Men's Hats, Incorporated, Baltimore, Md. Filed Sept. 20, 1950.

Tip-Off

For Monthly Publication.

Claims use since Aug. 23, 1950.

Ser. No. 608,768. The Sporting Goods Publishing Company, St. Louis, Mo. Filed Jan. 13, 1951. (Sec. 2f.)

THE SPORTING GOODS DEALER'S DIRECTORY OF THE SPORTING GOODS TRADE

Applicant claims ownership of Registrations Nos. 66,460, 66,461, 277,000, 319,108, and 534,819.

For Yearly Directory.

Claims use since 1899.

Ser. No. 613,572. Hearst Publishing Company, Inc., Wilmington, Del., and San Francisco, Calif. Filed May 5, 1951.

Examiner Star-Fire Want Ads

The term "Want Ads" is disclaimed.

For Newspaper Section.

Claims use since Mar. 11, 1951.

Ser. No. 616,031. The Hearst Corporation, New York, N. Y. Filed July 3, 1951.

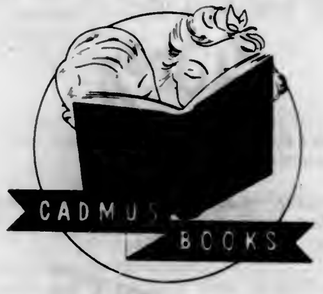
YOGURT

The drawing is lined for shading only.

For Magazine Feature or Section Consisting of a Series of Cartoons Published Bi-Monthly and/or at Other Intervals.

Claims use since June 19, 1951.

Ser. No. 616,634. E. M. Hale and Company, Eau Claire, Wis. Filed July 18, 1951.



The word "Book" and the representation of a book are disclaimed. Applicant claims ownership of Registration No. 384,073.

For Books.

Claims use since 1945.

Ser. No. 617,327. United Grocers, Ltd., San Francisco, Calif. Filed Aug. 3, 1951.



The name and picture are fictitious. The lining is for shading only.

For Column for Publications Issued Periodically.

Claims use since June 28, 1951.

Ser. No. 617,545. McGraw Electric Company, Milwaukee, Wis. Filed Aug. 10, 1951.

THE LINE

For Periodical Publication.

Claims use since 1923.

Ser. No. 617,938. Admiral Corporation, Chicago, Ill. Filed Aug. 22, 1951.

Smart Living

For Printed Publication That Is Published Approximately Six Times a Year.

Claims use since May 22, 1951.

Ser. No. 617,993. Inter-Collegiate Press, Inc., Kansas City, Mo. Filed Aug. 23, 1951. (Sec. 2f.)

Inter-Collegiate Press

For Printed and Engraved School Graduation Announcements, Diplomas, Year Books or Annuals, Personal Cards, Scholastic Records, Programs, and Thank You Cards.

Claims use since 1910.

CLASS 39

CLOTHING

Ser. No. 533,987. Burson Knitting Company, Rockford, Ill. Filed Sept. 10, 1947. (Sec. 2f.)



The words "Fashioned" and "Hosiery" are disclaimed. Applicant claims ownership of Registration No. 164,857.

For Hosiery.

Claims use since Oct. 21, 1926.

Ser. No. 583,133. Pohatcong Hosiery Mills, Washington, N. J. Filed July 28, 1948.

Athena

For Hosiery for Women.

Claims use since Nov. 1, 1940.

Ser. No. 595,541. Garr, Inc., New York, N. Y. Filed Apr. 11, 1950.

No Allergy

For Sportswear — Namely, Women's Sports Skirts, Blouses, Hats, and Sweaters.

Claims use since July 1, 1949.

Ser. No. 599,123. I. Schneierson & Sons, Inc., New York, N. Y. Filed June 14, 1950. (Sec. 2f—Additional evidence.)

Bodi-Mold

For Ladies' and Children's Princess Slips, Bloomers, Pajamas, Step-Ins, Dresses, and Nightgowns; and Ladies' Chemises and Uniforms for Work Purposes of a Textile Fabric.

Claims use since Dec. 31, 1935.

Ser. No. 601,958. Star-Maid Dresses, Inc., New York, N. Y. Filed Aug. 8, 1950.

Prairie Loom

For Women's Dresses, Skirts, and Suits.

Claims use since June 20, 1950.

Ser. No. 603,860. Saluda Corporation, New York, N. Y. Filed Sept. 21, 1950.



"SALUDA SAM"

For Men's Shorts Worn as Underwear.
Claims use since Jan. 1, 1950.

Ser. No. 605,648. Diamond Full-Fashioned Hosiery Co., Inc., High Point, N. C., and New York, N. Y. Filed Oct. 31, 1950.

"PERSONALITY HEEL"

The word "Heel" is disclaimed.
For Women's Hosiery.
Claims use since Oct. 5, 1950.

Ser. No. 606,875. Lubin-Weeker Co., Inc., New York, N. Y. Filed Nov. 24, 1950.

CLUB LOUNGE

For Men's Pajamas.
Claims use since 1932.

Ser. No. 610,051. Joseph H. Epstein, doing business under the name Bobbie Allen, Nashville, Tenn. Filed Feb. 14, 1951.

Bobbie Allen
ORIGINAL

The word "Original" is disclaimed. The name "Bobbie Allen" is fanciful.
For Ladies', Misses' and Children's Sportswear—Namely, Jackets, Skirts, Slacks, Blouses, Shorts, Pedal Pushers, Suits, Dresses, Jerkins, Jumpers, Toppers, and Coats.
Claims use since July 1, 1950.

Ser. No. 613,738. Scott & Williams, Incorporated, Laconia, N. H. Filed May 10, 1951.



The word "Nylons" is disclaimed. Applicant claims ownership of Registrations Nos. 427,156 and 435,224.
For Nylon Hosiery for Women.
Claims use since Mar. 23, 1951.

Ser. No. 613,817. S. H. Kress and Company, New York, N. Y. Filed May 12, 1951.

Lancelot

The name "Lancelot" is fanciful. Applicant claims ownership of Registration No. 286,548.
For Men's Hosiery.
Claims use since Mar. 2, 1931; and since Feb. 2, 1948, as to the mark in the design shown.

Ser. No. 613,836. California Underwear Corp., doing business under the style name of Le Jong Nylons, Dallas, Tex. Filed May 14, 1951.

Le Jong

For Women's and Girls' Hosiery.
Claims use since February 1950.

Ser. No. 613,837. California Underwear Corp., doing business under the style name of Parkworth Nylons, Dallas, Tex. Filed May 14, 1951.

PARKWORTH

For Hosiery for Women and Girls.
Claims use since February 1950.

Ser. No. 613,838. California Underwear Corp., doing business under the style name of Tel-Trim Nylons, Dallas, Tex. Filed May 14, 1951.

tel-trim

The word "Trim" is disclaimed.
For Hosiery for Women and Girls.
Claims use since February 1950.

Ser. No. 613,988. Hanes Hosiery Mills Company, Winston-Salem, N. C., and New York, N. Y. Filed May 17, 1951.

Syncopated Clock

The word "Clock" is disclaimed.
For Ladies' Hosiery.
Claims use since Apr. 26, 1951.

Ser. No. 614,068. Straus, Royer & Strass, Inc., Baltimore, Md. Filed May 18, 1951.

tom boy

Applicant claims ownership of Registrations Nos. 141,618, 225,710, and others.
For Misses', Women's, and Children's Dresses, Separate Skirts, Outer Shorts, Shirts, Blouses, Slacks, Culottes, Overalls, Outer Bras, Midriff Bras, Jackets, Boleros, Middies, Suits, Vests and Vestees.
Claims use since Nov. 16, 1938.

Ser. No. 614,069. Straus, Royer & Strass, Inc., Baltimore, Md. Filed May 18, 1951.

american golfer

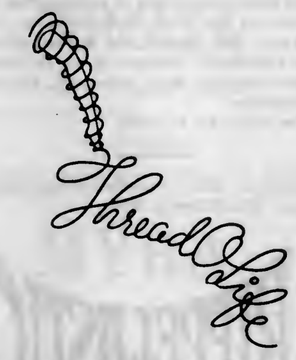
Applicant claims ownership of Registrations Nos. 300,541 and 526,270.
For Misses', Women's, and Children's Dresses, Playsuits, Separate Skirts, Outer Shorts, Shirts, Blouses, Slacks, Culottes, Overalls, Outer Bras, Midriff Bras, Jackets, Boleros, Middies, Suits, Vests, and Vestees.
Claims use since Oct. 5, 1939.

Ser. No. 616,513. I. Schneierson & Sons, Inc., New York, N. Y. Filed July 14, 1951.

TRU-FLEX

The term "Flex" is disclaimed.
For Ladies' and Children's Slips, of a Textile Fabric.
Claims use since Feb. 6, 1951.

Ser. No. 617,149. Hayward Hosiery Company, Ipswich, Mass. Filed July 31, 1951.



Applicant claims ownership of Registration No. 289,814.
For Women's and Girls' Hosiery.
Claims use since Sept. 1, 1950, as to the mark shown; and since July 23, 1931, as to the mark "Thread O Life."

Ser. No. 617,447. Lass O'Scotland, Ltd., New York, N. Y. Filed Aug. 8, 1951.



The words "Knit-Pleat" are disclaimed.
For Knitted Skirts, Suits, Dresses, Blouses, Jackets, and Coats for Women, Misses, and Children.
Claims use since May 4, 1951.

Ser. No. 618,105. Tranel, Inc., New York, N. Y. Filed Aug. 25, 1951.

PRIVATE WIRE

The word "Wire" is disclaimed.
For Lingerie—Namely, Brassière-Top Slips.
Claims use since Feb. 19, 1951.

Ser. No. 618,309. Smith Victory Corporation, Buffalo, N. Y. Filed Aug. 31, 1951.

Bobbie Smith

The name "Bobbie Smith" is fanciful.
For Hair Nets.
Claims use since August 1950.

Ser. No. 618,713. Pioneer Suspender Company, Darby, Pa. Filed Sept. 12, 1951.

Pioneer

Applicant claims ownership of Registrations Nos. 52,371, 318,189, and others.
For Men's and Boys' Pajamas.
Claims use since Aug. 21, 1951.

Ser. No. 619,210. The Nolde and Horst Company, Reading, Pa. Filed Sept. 25, 1951.



The picture of the three guards is fanciful. Applicant claims ownership of Registration No. 315,694.
For Men's and Boys' Hosiery.
Claims use since Aug. 1, 1950.

Ser. No. 619,569. Corona Corset Corp., Corona, N. Y. Filed Oct. 4, 1951.

CIRCLES O'YOUTH

For Ladies' and Misses' Brassières, Corsets, and Corselettes.
Claims use since Feb. 6, 1950.

Ser. No. 620,641. Wilmington Hosiery Mills, Inc., Wilmington, Del. Filed Oct. 29, 1951.

Fantazio

For Socks for Men, Women, Boys, and Girls.
Claims use since Apr. 1, 1951.

CLASS 40

FANCY GOODS, FURNISHINGS, AND NOTIONS

Ser. No. 608,534. Cordo-Hyde Company, Brockton, Mass. Filed Jan. 9, 1951.

Cordo Hyde

The outline of the label is disclaimed. Applicant claims ownership of Registrations Nos. 116,945 and 198,295.
For Shoe Strings, Lacings, and Tapes for Use on Shoes.
Claims use since Sept. 1, 1916.

Ser. No. 608,535. Cordo-Hyde Company, Brockton, Mass. Filed Jan. 9, 1951.

The Cordo-Hyde LACE

The word "Lace" is disclaimed. Applicant claims ownership of Registrations Nos. 116,925 and 198,295.
For Shoe Strings, Lacings, and Tapes for Use on Shoes.
Claims use since Sept. 1, 1916.

Ser. No. 612,328. Richard Hudnut, New York, N. Y. Filed Apr. 6, 1951.

whirl-a-wave

Applicant claims onwership of Registration No. 537,574.
For Non-Electric Curlers Employed in Permanent Waving and Hair Setting.
Claims use since Jan. 26, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 572,973. Hess, Goldsmith & Co., Inc., New York, N. Y. Filed Jan. 28, 1949.

CREPELON

For Nylon Cloth.
Claims use since Jan. 10, 1949.

Ser. No. 574,845. William R. Lee, Limited, Heywood, England. Filed Mar. 3, 1949.

Leeona

Applicant claims ownership of British Registration No. 142,581, dated Jan. 9, 1932.
For Towels, Bath Mats, Bath Sheets, Face Cloths, and Face Washing Gloves.

Ser. No. 579,621. Queen Valley Fabrics, Inc., Cumberland, R. I. Filed May 27, 1949.

VALLEEN

For Rayon Marquisette Household Window Curtains and Rayon Marquisette Piece Goods From Which Such Window Curtains Are Made.
Claims use since July 1938.

Ser. No. 594,023. Catophrene Limited, London, England. Filed Mar. 16, 1950.

CATOPHRENE

Applicant claims ownership of British Registration No. 628,909, dated Apr. 25, 1944.
For Woven and Knitted Textile Piece Goods of Cotton, Wool, Linen, Synthetic Fibers, and Combination of Such Materials.

Ser. No. 594,751. Anglo Fabrics Company, Inc., New York, N. Y. Filed Mar. 28, 1950.

NYLOWOOL

For Woolen and Worsted Woven Piece Goods for Suitings, Coatings, Topcoatings, and Overcoatings.
Claims use since Mar. 15, 1950.

Ser. No. 605,131. Aberfoyle Manufacturing Company, Philadelphia and Chester, Pa. Filed Oct. 19, 1950.

Fiberfoyle

Applicant claims ownership of Registration No. 421,492.
For Fabrics in the Piece Made of Yarns Consisting of Cotton, Rayon, and Cotton and Rayon Mixture, Which Have Been Chemically Treated so as To Make the Yarn Softer, More Lustrous, More Absorbent, and Less Susceptible to Shrinkage.
Claims use since July 18, 1945.

Ser. No. 611,013. Bates Manufacturing Company, Lewiston, Maine. Filed Mar. 8, 1951.

RIPPELASTIC

Applicant claims ownership of Registrations Nos. 78,575 and 236,439.
For Cotton Piece Goods.
Claims use since Nov. 7, 1950.

Ser. No. 617,421. Spuntex Mills, Inc., New York, N. Y. Filed Aug. 7, 1951.

Dynalon

For Rayon Piece Goods.
Claims use since July 12, 1951.

Ser. No. 621,938. Bates Manufacturing Company, Lewiston, Maine. Filed Dec. 1, 1951.

DYNELON

For Piece Goods of Cotton and Synthetic Fibers.
Claims use since July 26, 1951.

Ser. No. 621,981. Ponemah Mills, Taftville, Conn. Filed Dec. 1, 1951.

PONAN

For Rayon Piece Goods and Cotton Piece Goods.
Claims use since Aug. 27, 1951.

Ser. No. 622,003. Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Filed Dec. 3, 1951.

Serenade

For Woven Pile Fabric Rugs and Carpets.
Claims use since January 1946.

Ser. No. 622,004. Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Filed Dec. 3, 1951.

SONATA

For Woven Pile Fabric Rugs and Carpets.
Claims use since March 1941.

Ser. No. 622,329. Forstmann Woolen Co., Passaic, N. J. Filed Dec. 11, 1951.

MYRA

Applicant claims ownership of Registrations Nos. 290,307, 188,668, and others
For Woolen Piece Goods.
Claims use since Oct. 1, 1930.

Ser. No. 622,400. Miron Mills, Inc., Clinton, Mass. Filed Dec. 12, 1951.

NIBALINE

For Wool Fabrics in the Piece.
Claims use since Nov. 1, 1951.

Ser. No. 622,402. Miron Mills, Inc., Clinton, Mass. Filed Dec. 12, 1951.

TAFFANIB

For Wool Fabrics in the Piece.
Claims use since Oct. 9, 1951.

CLASS 44

DENTAL, MEDICAL, AND SURGICAL APPLIANCES

Ser. No. 608,069. Infant Aids Incorporated, Los Angeles, Calif. Filed Dec. 26, 1950.

INSTA-VALVE

The word "Valve" is disclaimed.
For Stainless Steel Check Valve Which Is Used in Conjunction With a Nursing Bottle and a Nipple for Baby Feeding.
Claims use since Nov. 18, 1949.

Ser. No. 621,606. The Pyramid Rubber Company, Ravenna, Ohio. Filed Nov. 8, 1951. (Sec. 2f.)

Evenflo

The drawing is lined for blue. Applicant claims ownership of Registrations Nos. 549,434 and 322,650.
For Nursing Bottles; Complete Nursers Each Comprising a Nipple, Nipple Retaining Cap, Sealing Disc, and Bottle; and Sets of Complete Nursers.
Claims use since 1946.

CLASS 45

SOFT DRINKS AND CARBONATED WATERS

Ser. No. 586,020. John Sirex, doing business as Canasta Beverage Company, San Francisco, Calif. Filed Oct. 8, 1949.

CANASTA

For Non-Alcoholic Maltless Beverage Mixers.
Claims use since Sept. 19, 1949.

Ser. No. 605,239. Specialty Mfg. and Sales Co., Baton Rouge, La. Filed Oct. 20, 1950.

HADACOLA

The word "Cola" is disclaimed.
For Non-Alcoholic Maltless Soft Drinks.
Claims use since Sept. 10, 1950.

Ser. No. 614,861. Bang Products Company, New Haven, Conn. Filed June 7, 1951.

BANG!

For Carbonated Orange-Flavored Maltless Soft Drink.
Claims use since Mar. 1, 1951.

Ser. No. 614,862. Bang Products Company, New Haven, Conn. Filed June 7, 1951.



For Carbonated Orange-Flavored Maltless Soft Drink.
Claims use since Mar. 1, 1951.

Ser. No. 617,230. Citrus Products Company, Chicago, Ill. Filed Aug. 2, 1951.



The word "Chocolate" is disclaimed. Applicant claims ownership of Registration No. 210,242.
For Chocolate Flavored Non-Alcoholic Maltless Beverage Mix Used in the Preparation of Soft Drinks and a Chocolate Flavored Non-Alcoholic Maltless Soft Drink.
Claims use since June 26, 1951, as to the mark shown; and since July 1, 1925, as to the mark "Chocolate Soldier."

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 526,900. Armour and Company, doing business under the trade-style Friedman Manufacturing Company, Chicago, Ill. Filed July 5, 1947. (Sec. 2f.—Additional evidence.)

Puff-Puff

For Vegetable and Animal Shortening Containing Moisture.
Claims use since Sept. 15, 1931.

Ser. No. 535,867. Olympia Canning Company, Olympia, Wash. Filed Sept. 26, 1947. (Sec. 2f.)

HOLSUM

Applicant claims ownership of Registration No. 175,272.
For Canned Fruits.
Claims use since June 1922.

Ser. No. 543,547. Ventura Farms Frozen Foods, Inc., Oxnard, Calif. Filed Dec. 5, 1947.



The word "Fordhook" and the representation of a lima bean are disclaimed. The drawing is lined for blue, green, and red.
For Frozen Vegetables—Namely, Frozen Lima Beans.
Claims use since Aug. 25, 1947.

Ser. No. 545,724. Donahoe's Incorporated, Pittsburgh, Pa. Filed Dec. 30, 1947. (Sec. 2f.)

MY-TE-GOOD

The word "Good" is disclaimed. Applicant claims ownership of Registrations Nos. 143,240, 211,355, 293,569, and 357,634.
For Bread, Candies, Coffee, Tea, Oleomargarin, Canned Vegetables, Mince-Meat, Pressed Codfish, and Ice Cream.
Claims use since April 1917.

Ser. No. 545,725. Donahoe's Incorporated, Pittsburgh, Pa. Filed Dec. 30, 1947. (Sec. 2f.)

MY-TE-GOOD

The word "Good" is disclaimed. Applicant claims ownership of Registrations Nos. 143,240, 211,355, 293,569, and 357,634.
For Canned Beans With Pork; Fruit Preserves—Namely, Cherry, Peach, Raspberry, Strawberry.
Claims use since March 1932.

Ser. No. 545,726. Donahoe's Incorporated, Pittsburgh, Pa. Filed Dec. 30, 1947. (Sec. 2f.)

MY-TE-GOOD

Applicant claims ownership of Registrations Nos. 143,240, 211,355, 293,569, and 357,634.
For Canned Vegetables—Namely, Beans, Beets, Carrots, Corn, Sauerkraut, Mixed Vegetables, Sweet Peas, Pumpkin, Spinach, Asparagus, and Tomatoes; Canned Fruits—Namely, Apricots, Blackberries, Raspberries, Strawberries, Cherries, Grapefruit, Peaches, Pears, Plums, Fruit Cocktail, and Pineapple; and Apple Butter, Limburger Cheese, Food Flavoring Extracts, Macaroni, Noodles, Spaghetti, Canned Salmon, Sardines, Mayonnaise Dressing, Thousand Island Dressing, Sandwich Spread, Fresh Eggs, Salad Dressing, Salt, Potato Chips, and Cane and Maple Syrup.
Claims use since February 1921.

Ser. No. 556,117. New England Grain Products Co., Yarmouth, Maine. Filed May 3, 1948.

FOLER-IZED

For Dog, Fox, and Mink Foods Comprising a Balanced Diet of Protein, Carbohydrate, and Fats.
Claims use since Apr. 13, 1948.

Ser. No. 558,209. Calavo, Inc., Los Angeles, Calif. Filed June 1, 1948.



The name "California Tropical Fruits" and the representation of the avocado are disclaimed. Applicant claims ownership of Registration No. 357,974.
For Natural, Dried, Candied, and Fresh Fruits—Namely, Natural and Hydrated Dates, Candied Citrus Peel, Glaced Fruits, Packs of Dried and Glaced Fruits, Dried and Processed Figs, Dried and Processed Prunes, Dried Apricots, Dried Raisins, Dried Peaches, and Fresh Limes.
Claims use since Oct. 8, 1945.

Ser. No. 570,621. Lindsay Co-operative Citrus Association, Lindsay, Calif. Filed Dec. 16, 1948.

BLUE RIDGE

For Fresh Citrus Fruits.
Claims use since 1916.

Ser. No. 572,692. Probst & Co., Langnau, Switzerland. Filed Jan. 24, 1949.



Applicant claims ownership of Swiss Registration No. 138,142, dated June 12, 1951, and United States Registrations Nos. 30,662 and 261,986.
For Cheese.
Claims use since 1897 in Switzerland; and since 1897 in commerce between Switzerland and the United States.

Ser. No. 575,753. Dairyland Food Laboratories, Inc., Waukesha, Wis. Filed Mar. 21, 1949.



The words "Food Laboratories, Inc." are disclaimed.
For Ensyme Preparations for Flavoring and Modifying the Composition of Foods, and a Synthetic Cheese Flavor.
Claims use since Feb. 23, 1949.

Ser. No. 576,207. Frederick T. Hoeck, doing business as Hex Chili Manufacturing Co., and La Fiesta Chili Co., Kansas City, Mo. Filed Mar. 28, 1949.

La Fiesta

For Chili Con Carne With Beans.
Claims use since Oct. 25, 1948.

Ser. No. 576,948. Aktiebolaget Konservfabriken Findus, Bjuv, Sweden, now by change of name Aktiebolaget Findus, assignor to Aktiebolaget Marabou, Sundbyberg, Sweden, a Swedish joint stock company. Filed Apr. 12, 1949.

FINDUS

Applicant claims ownership of Swedish Registration No. 51,221, dated Jan. 10, 1939.
For Canned and Quick-Frozen Fruits, Berries, Vegetables, Beef, Pork, Lamb, Veal, and Chicken; Jams, and Marmalades.

Ser. No. 579,840. South West Africa Fishing Industries Limited, Cape Town, Union of South Africa. Filed Jan. 18, 1949.

Albatross

Priority under Sec. 44(d). Union of South African Reg. No. 3649. Applicant claims ownership of Union of South African Registration No. 3649/48, dated Dec. 29, 1948.
For Canned Shell Fish.

Ser. No. 580,473. Dominic Favia, doing business as Atlantic Candy Company, Brooklyn, N. Y. Filed June 15, 1949.

MEL-O-POPS

The word "Pops" is disclaimed.
For Hard Candy on a Stick.
Claims use since May 24, 1948.

Ser. No. 582,182. Morton Salt Company, Chicago, Ill. Filed July 19, 1949. (Sec. 2f as to "Morton's.")



The words "Bunny Salt Spools" and the representation of the salt spool are disclaimed. Applicant claims ownership of Registrations Nos. 509,883 and 509,884.
For Salt Spools for Rabbits.
Claims use since May 7, 1929, on the mark as shown; and since June 15, 1912 on the word "Morton's."

Ser. No. 582,528. J. J. Gielow & Sons, Inc., Detroit, Mich. Filed July 26, 1949.

ICEBERG

For Pickles.
Claims use since July 1940.

Ser. No. 590,135. British Cod Liver Oils (Hull & Grimsby) Limited, Hull, England. Filed Dec. 30, 1949.

SEVENSEAS

Applicant claims ownership of United States Registration No. 354,473.

For Cod Liver Oil Sold Alone for Human Consumption and To Be Used as an Ingredient in Human Food and in Feeds for Poultry, Swine, and Other Livestock.

Claims use since Feb. 10, 1937; and was first used in commerce between the United States and Great Britain on Feb. 10, 1937.

Ser. No. 592,570. Keokuk Canning Co., Keokuk, Iowa. Filed Feb. 16, 1950. (Sec. 2f.)

KEOKUK

For Canned Pickles and Canned Tomatoes.
Claims use since 1881.

Ser. No. 596,195. I. Rokeach & Sons, Inc., Brooklyn, N. Y. Filed Apr. 22, 1950. (Sec. 2f as to "Rokeach.")

ROKEACH QUALITY PRODUCT KOSHER

The words "Quality, Product, Kosher" and the Hebrew word meaning "Kosher," and the representation of the Star of David are disclaimed. Applicant claims ownership of Registrations Nos. 82,261, 189,058, and others.

For Tomato Soup, Barley and Mushroom Soup, Lima Bean Soup, Baked Beans, Borscht (Beet Soup), Tomato Sauce With Mushrooms, Prune Juice, Grape Preserves, Strawberry Preserves, Raspberry Preserves, Cherry Preserves, Honey, Pickles, Peanut Oil for Salads and Cooking, Vegetable Shortening, Matzos and Gefilite (Stuffed) Fish, Creamed Style Borscht and Creamed Style Schav (Made From Sour Leaves).

Claims use since Feb. 20, 1950 on the mark as shown; and since May 1, 1924, on the word "Rokeach" and the Hebrew characters.

Ser. No. 597,607. G. P. Gundlach & Co., Inc., Cincinnati, Ohio. Filed May 17, 1950.

Carrie Cheer

The name "Carrie Cheer" is fanciful.
For Ice Cream.
Claims use since February 1940.

Ser. No. 600,210. Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa. Filed July 5, 1950. (Sec. 2f as to "Crackin Good.")

CRACKIN' GOOD

The girl figure portrait is fanciful. Applicant claims ownership of Registrations Nos. 143,632, 381,576, 439,912, 518,871, and 521,185.

For Bakery Products—Namely, Crackers, Cookies, Cheese Chips, and Fig Bars.

Claims use since Feb. 15, 1947, at to the mark shown; and since Aug. 23, 1919, as to the expression "Crackin Good."

Ser. No. 601,812. Richard A. Vandestel, doing business as Van Dee Food Products, Irvington, N. J. Filed Aug. 5, 1950.

VANDEE FOOD PRODUCTS

The lining represents lining which actually appears in the mark. The words "Food Products" and the representation of the fish are disclaimed.

For Mayonnaise, Salad Dressing, Worcestershire Sauce, French Dressing, Beef Broth, Chicken Broth, Onion Soup, Brown Gravy, Consisting of a Brown Gravy Base in Granulated Form, Giblet Gravy, Meat Seasoning Powder, Chicken Seasoning Powder, Turkey Seasoning Powder, Herring Snacks, Consisting of Marinated Pieces of Herring, Smoky Rich, Consisting of a Liquid Hickory Smoke Flavor, Hydrolyzed Vegetable Protein, and Salt, Chinese Seasoning Powder, Gravy Rich, Consisting of a Blend of Liquid Burnt Sugar, Vegetable Protein, Dehydrated Vegetables and Spices; Cream of Chicken Soup, Cream of Mushroom Soup, Jellied Beef Broth, Curry Powder, and Chicken Snacks, Consisting of Cooked Chopped Chicken Meat Mixed With Spices and Cream Sauce.

Claims use since July 17, 1950.

Ser. No. 601,957. Standard Brands Incorporated, New York, N. Y. Filed Aug. 8, 1950.

TASTEX

For Oleomargarine Sold in Bulk to Bakers and Hotels and Restaurants for Use as a Shortening.
Claims use since July 19, 1950.

Ser. No. 602,321. Kimbriel & Company, Inc., Pharr, Tex. Filed Aug. 17, 1950.

TOP STOCK

For Fresh Citrus Fruits.
Claims use since December 1948.

Ser. No. 602,597. Joie W. Cole, Vandergrift, Pa. Filed Aug. 23, 1950.

Jaycee

For Dressings for Salads, Meats, and Fish.
Claims use since July 31, 1950.

Ser. No. 602,753. B. Dorman & Sons, Inc., Brooklyn, N. Y. Filed Aug. 25, 1950.

MOTHER

Applicant claims ownership of Registration No. 271,220.

For Canned Foods—Namely, Peas, Tomato Paste, and Tomatoes.

Claims use since 1924.

Ser. No. 602,980. Texas Brags—World's Finest Foods, Inc., Dallas, Tex. Filed Aug. 30, 1950.

Texas Brags

The map design and the word "Texas" are disclaimed.
For Fruit Cakes.
Claims use since Apr. 13, 1950.

Ser. No. 605,470. Dietetic Food Co., Inc., Brooklyn, N. Y. Filed Oct. 27, 1950.

DIA-MEL

Applicant claims ownership of Registration No. 269,599.

For Diabetic Foods and Ingredients of Diabetic Food Products—Namely, Gluten Flour, Soybean Flour, Casein Flour, Starch and Sugar Free Flour; Bread, Breadsticks, Biscuits, Crackers and Cookies; Breakfast Food Cereals; Ice Cream Mix in Powder Form, Chewing Gum, Jellies, Candies and Sweetened, Flavored Pastilles Used as Candy Substitutes; Baking Powder; Mayonnaise and Salad Dressing; Macaroni, Spaghetti and Noodles; Vegetable Broth Powder; Casein Cocoa; Saccharine in Liquid, Powder, Crystal and Tablet Form; Gelatin Desserts and Puddings.

Claims use since July 15, 1926.

Ser. No. 606,380. Forrest V. Haughton, San Francisco, Calif. Filed Nov. 14, 1950.

Frosty's BUTTER RUM BATTER

"Butter Rum" and "Batter" are disclaimed.

For Batter Consisting of Butter, Sugar, Spices, Flavor, Et Cetera, for Use in Making Rum Drinks.

Claims use since November 1949.

Ser. No. 606,835. John H. Wilkins Company, Washington, D. C. Filed Nov. 22, 1950. (Sec. 2f.)

ANDES

Applicant claims ownership of Registration No. 353,080.

For Roasted Coffee for Sale to Wholesale or Retail Dealers.

Claims use since Dec. 19, 1929.

Ser. No. 606,985. Sarah G. Shanblum, Fort Worth, Tex. Filed Nov. 27, 1950.

Sara's Waf'l-Bat'r

The expression "Waf'l-Bat'r" is disclaimed.
For Frozen Waffle Batter Mix.
Claims use since Feb. 5, 1950.

Ser. No. 608,064. Gold Cup Farms, Inc., Utica, N. Y. Filed Dec. 26, 1950.

The drawing is lined for gold. The words "Dairy Products" are disclaimed.

For Cheese, Butter, Ice Cream, Fluid Milk, and Fresh Eggs.

Claims use since Nov. 1, 1947.

Ser. No. 609,220. The Scudders-Gale Grocer Company, also trading as General Coffee Company, St. Louis, Mo. Filed Jan. 19, 1951.

Robin

Applicant claims ownership of Registration No. 81,035.
For Coffee.
Claims use since May 10, 1895.

Ser. No. 609,696. Leo Peters, doing business under the name of Leo Peters' Fine Foods, Evanston, Ill. Filed Feb. 6, 1951.

Turn

For Oleomargarine, Butter, Ice Cream, and Cheese.
Claims use since Jan. 31, 1951.

Ser. No. 611,117. Ernest Zimmerman, Dover, Del. Filed Mar. 9, 1951.



The word "Pack" is disclaimed.
For Raw Potatoes.
Claims use since 1943.

Ser. No. 611,174. Wm. H. Gardner, doing business as Gardner Food Products Company, Los Angeles, Calif. Filed Mar. 12, 1951. (Sec. 2f.)

Gardner's

Applicant claims ownership of Registration No. 426,212.
For Bottled Pickles, Chili Peppers, Sandwich Spread, Vinegar, Mayonnaise, Bell Pepper Seasoning, Liquid Onion Seasoning, Liquid Garlic Seasoning, Prepared Mustard, Sauces for Food Seasoning Purposes, Horseradish, Horseradish Beets; Sweet Relish Comprised of Cucumbers, Vinegar, Sugar and Spices; Orange Marmalade, Tartar Sauce, Thousand Island Dressing, French Dressing, Cheese, and Chili Spice.
Claims use since April 1925.

Ser. No. 612,197. Robert L. Berner Company, Chicago, Ill. Filed Apr. 4, 1951.

Holiday

For Unshelled Nuts Packed in Bags and Large Sacks.
Claims use since Oct. 28, 1938.

Ser. No. 612,407. Matsumoto Brothers, Niland, Calif. Filed Apr. 9, 1951.

CHOCOLATE MOUNTAIN

For Fresh Vegetables.
Claims use since Jan. 7, 1951.

Ser. No. 612,992. Caravan Products Co., Inc., New York, N. Y. Filed Apr. 23, 1951.

SPRASHORT

For Shortening Compound Used as a Depanning Compound or Lubricant for Baking Pans.
Claims use since Apr. 17, 1951.

Ser. No. 613,298. Raymond R. Kubly, doing business under the name and style of The Swiss Colony, Monroe, Wis. Filed Apr. 28, 1951.



The drawing is lined for red but color is disclaimed.
For Cheese.
Claims use since Oct. 23, 1951.

Ser. No. 613,955. Jerry Nizich, Portland, Oreg. Filed Apr. 9, 1951.



The word "Eggs" is disclaimed. The picture shown is that of the applicant.
For Fish Food—Namely, Preserved Salmon Eggs for Feeding Fish of All Kinds and Not for Human Consumption.
Claims use since Dec. 15, 1946.

Ser. No. 615,054. Crustywise Pie Crust Co., Montebello, Calif. Filed June 12, 1951.

CRUSTYWISE

For Prepared Pie Crust Dough.
Claims use since Apr. 15, 1950.

Ser. No. 615,387. A. Hempel Trading, Inc., New York, N. Y. Filed June 19, 1951.



The term "Danish" is disclaimed.
For Black Currant Syrup for Food Purposes in the Nature of a Concentrate or Extract.
Claims use since May 10, 1951.

Ser. No. 615,425. Wergeland Company, Chevy Chase, Md. Filed June 19, 1951.

Jody

For Prepared Edible Nuts.
Claims use since Apr. 6, 1951.

Ser. No. 615,583. Topco Associates, Inc., Chicago, Ill. Filed June 22, 1951.



The words "Quality Controlled Food Products" are disclaimed.
For Canned and Frozen Sweet Peas and Tea.
Claims use since May 16, 1951.

Ser. No. 615,887. Des Moines Co-Operative Dairy, Des Moines, Iowa. Filed June 29, 1951.

DESCO

For Dry Skim Milk.
Claims use since Oct. 1, 1948.

Ser. No. 616,161. Chappius Company, Burbank, Calif. Filed July 6, 1951.

LACOSAL

For Dietary Substitute for Table Salt.
Claims use since May 28, 1951.

Ser. No. 616,290. The Griffith Laboratories, Inc., Chicago, Ill. Filed July 10, 1951. (Sec. 2f.)

MEE BOAN

The English translation of the Chinese words "Mee Boan" is "the essence of good flavor." Applicant claims ownership of Registration No. 400,782.
For Powdered Product for Flavoring Food Containing Principally Amino-Acid Derived From Protein and Sodium Chloride.
Claims use since June 17, 1941.

Ser. No. 617,029. Holly Sugar Corporation, Colorado Springs, Colo. Filed July 27, 1951.

Holly

Applicant claims ownership of Registrations Nos. 337,057 and 519,869.
For Sugar.
Claims use since Sept. 1, 1948.

Ser. No. 617,089. M & R Dietetic Laboratories, Inc., Columbus, Ohio. Filed July 28, 1951.

Rossmoor

For Chocolate Flavored Beverage-Making Powder Adapted To Be Liquefied With Water or Milk and Used in the Preparation of Chocolate Food Beverages; and Canned Evaporated Milk.
Claims use since 1927.

Ser. No. 618,495. G. P. Gundlach & Co., Inc., Cincinnati, Ohio. Filed Sept. 7, 1951.

GRENADIER

Applicant claims ownership of Registration No. 544,071.
For Ice Cream.
Claims use since Feb. 18, 1950.

Ser. No. 618,550. National Bakers Services, Inc., Chicago, Ill. Filed Sept. 8, 1951. (Sec. 2f.)

Hollywood

Applicant claims ownership of Registrations Nos. 373,270 and 385,529.
For Bread.
Claims use since June 10, 1938.

Ser. No. 618,809. Meadowmoor Dairies, Inc., Chicago, Ill. Filed Sept. 14, 1951.

Meadowmoor Vem

For Modified Skimmed Milk in Fluid Form, Fortified With Added Vitamins.
Claims use since May 1, 1951.

Ser. No. 618,862. S and W Fine Foods, Inc., doing business as Redwood Food Packing Company, San Francisco, Calif. Filed Sept. 15, 1951.

NUT BOWL

The word "Nut" is disclaimed.
For Unshelled Mixed Nuts.
Claims use since Aug. 24, 1951.

Ser. No. 618,885. Robert G. Contos, doing business as Ambassador Coffee Co., Baltimore, Md. Filed Sept. 17, 1951.

Ambassador House

For Coffee.
Claims use since Sept. 1, 1936.

Ser. No. 618,889. Stoddard Jess, doing business as Jess Ranch, Victorville, Calif. Filed Sept. 17, 1951.

Royal Coachman

For Fresh Frozen Trout.
Claims use since July 3, 1951.

Ser. No. 619,265. J. R. Short Milling Company, Chicago, Ill. Filed Sept. 26, 1951.

Sno-Flus

Applicant claims ownership of Registration No. 303,074.
For Flake Hominy.
Claims use since May 5, 1949.

Ser. No. 619,441. Banner Mountain Products, Inc., Grass Valley, Calif. Filed Oct. 1, 1951.

TURCHICK

For Frozen Sausages, Frozen Patties, and Frozen Meat Loaves Made From Chicken and Turkey Meat.
Claims use since June 22, 1951.

Ser. No. 619,870. Walter E. Bothe Foods, Inc., Bloomington, Ill. Filed Oct. 11, 1951.

SALATOP

For Dressings for Salad.
Claims use since May 5, 1939.

Ser. No. 620,142. Central Fish and Oyster Co., Los Angeles, Calif. Filed Oct. 18, 1951.

Blue Diamond

For Frozen Fresh Shrimp, Frozen Fresh Clam Meat, and Frozen Fresh Scallops.
Claims use since Jan. 24, 1947.

Ser. No. 620,220. Major Distributing Company, Salinas, Calif. Filed Oct. 19, 1951.

RODEO

For Fresh Vegetables.
Claims use since Apr. 9, 1934.

Ser. No. 620,386. The R. V. Dublin Company, Jacksonville and Laredo, Tex. Filed Oct. 8, 1951. (Sec. 2f.)

DUBLIN

For Fresh Vegetables.
Claims use since June 1, 1945.

Ser. No. 620,667. The Garin Company, Salinas, Calif. Filed Oct. 30, 1951.

O-GEE

Applicant claims ownership of Registration No. 291,842.
For Fresh Vegetables and Fresh Melons.
Claims use since Feb. 19, 1931.

Ser. No. 621,242. Bob White, Chicago, Ill. Filed Nov. 14, 1951.

HE-MAN

For Canned Conch Chile Con Carne, Conch Chowder, and Conch Juice Served as a Cocktail.
Claims use since Oct. 6, 1951.

Ser. No. 621,506. Dimare Bros., Boston and South Boston, Mass. Filed Nov. 21, 1951.

HOLIDAY

For Shelled and Unshelled Nuts as Follows, Filberts, Almonds, Brazils, Walnuts, Pecans, and Peanuts.
Claims use since Aug. 1, 1944.

CLASS 47

WINES

Ser. No. 546,536. Schenley Distillers Corporation, also trading as Weston Winery, New York, N. Y., assignor, by mesne assignments, to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware. Filed Mar. 12, 1948.

TRAVATORE

Applicant claims ownership of Registration No. 329,942.
For Wines.
Claims use since Jan. 14, 1948.

Ser. No. 608,184. The Welch Grape Juice Company, Westfield, N. Y. Filed Dec. 28, 1950. (Sec. 2f—Additional evidence.)

Welch's

Applicant claims ownership of Registrations Nos. 109,970, 110,942, and others.
For Grape Wine.
Claims use since Dec. 21, 1950.

Ser. No. 609,445. Hearn Department Stores, Inc., New York, N. Y. Filed Jan. 31, 1951.

BELLA DI ORO

For Wines.
Claims use since Nov. 25, 1950.

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Ser. No. 608,237. Carstairs Bros. Distilling Co., Inc., New York, N. Y. Filed Dec. 30, 1950. (Sec. 2f—Additional evidence.)

Carstairs

Applicant claims ownership of Registrations Nos. 25,424, 49,465, and others.
For Alcoholic Beverages—Namely, Whiskey.
Claims use since Sept. 7, 1940, as shown; and since 1893 as to "Carstairs."

Ser. No. 608,581. Wine Growers Guild, Lodi, Calif. Filed Jan. 9, 1951.

CEREMONY

The representations of clusters of grapes are disclaimed. Applicant claims ownership of Registrations Nos. 364,996, 365,694, and 531,038.
For Brandy.
Claims use since Mar. 9, 1950, as shown; and since July 30, 1938, as to "Ceremony."

Ser. No. 616,220. James B. Beam Distilling Co., Chicago, Ill. Filed July 9, 1951. (Sec. 2f.)

BONDED BEAM

The word "Bonded" is disclaimed. Applicant claims ownership of Registrations Nos. 326,281, 326,282, 371,872, 369,543, and 544,365.
For Whiskey.
Claims use since Apr. 14, 1939.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 580,058. Golding Bros. Company, Inc., New York, N. Y. Filed June 7, 1949.

Vinalure

Applicant claims ownership of Registration No. 512,257.
For Plastic Coated Sheets of a Type To Substitute for Leather.
Claims use since Jan. 1, 1949.

Ser. No. 602,738. Andrews-Alderfer Processing Company, Incorporated, Akron, Ohio. Filed Aug. 25, 1950.

"ANDAL"

Applicant claims ownership of Registration No. 519,028.
For Composite Sheets of Foamed Rubber and Fabric.
Claims use since Feb. 1, 1950.

Ser. No. 607,563. Société à Responsabilité Limitée: Quirin & Cie, Luxeuil-Les-Bains (Haute-Saône), France. Filed Dec. 11, 1950.

AVELUX

Applicant claims ownership of French Registration No. 355, dated Sept. 25, 1948.
For Statuettes of Piety in Metal (All Colors).

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 601,273. Parfumerie Provencal, Inc., New York, N. Y. Filed July 26, 1950.

FRENCH PROVINCIAL

The word "French" is disclaimed. Applicant claims ownership of Registration No. 553,783.
For Perfumes, Colognes, Toilet Waters, Filled Sachets, and Dusting Powders.
Claims use since July 10, 1950.

Ser. No. 603,261. Spruso Company, Redfern, Australia. Filed Sept. 7, 1950.

Spruso

Applicant claims ownership of Australian Registration No. 50,161, dated May 15, 1928.
For Hair Dressings, Liquid Brilliantine, a Hair Preparation Consisting of Liquid Brilliantine and Crystallised Brilliantine, Crystallised Brilliantine, Oil of Roses, Hair Cream, Hair Setting Lotion.

Ser. No. 614,323. The Wella Corporation, New York, N. Y. Filed May 24, 1951.

KOLESTINT

Applicant claims ownership of Registration No. 374,941.
For Preparation for Reconditioning and Tinting the Hair at the Same Time.
Claims use since May 10, 1951.

Ser. No. 617,471. Doiletta M. Ackerman, Hollywood, Calif. Filed Aug. 9, 1951.

RING-U-LETS

For Hair Tonic.
Claims use since Jan. 1, 1951.

CLASS 52

DETERGENTS AND SOAPS

Ser. No. 588,885. The Procter & Gamble Company, Cincinnati, Ohio. Filed Dec. 6, 1949. (Sec. 2f.)

IVORY Soap PROCTER & GAMBLE

The word "Soap" is disclaimed. Applicant claims ownership of Registrations Nos. 231,898, 314,260, and others.

For Soap.

Claims use since Jan. 15, 1932, as to the composite mark; since 1879 as to "Ivory"; and since 1877 as to "Procter & Gamble."

Ser. No. 589,209. France Laboratories, Inc., South San Francisco, Calif. Filed Dec. 12, 1949.

IT'S A PIP

For Concentrated Liquid Shampoo.

Claims use since Nov. 21, 1949.

Ser. No. 600,355. Shulton, Inc., Clifton, N. J., and New York, N. Y. Filed July 7, 1950.

DEARCON

For Synthetic Detergent To Be Used in Shampoos and in Compounds for Scouring Wool, Cleaning Cotton, Etc., in Textile Industries.

Claims use since June 26, 1950.

Ser. No. 612,062. Eutectic Welding Alloys Corporation, New York, N. Y. Filed Mar. 31, 1951.

"EUTEC-BRINO"

For Pickling Metal Cleanser To Be Used as a Quench.

Claims use since Mar. 13, 1951.

Ser. No. 613,512. Industrial Chemical Laboratories, Inc., Omaha, Nebr. Filed May 4, 1951.

WORKS FOR YOU

For Powdered, Liquid, and Cake Soaps; Cleaning Compounds for Metal, Porcelain, Enamel, Glass, Tile, Rubber, and Boilers; and Sweeping Compounds, Soot Remover; Paint and Varnish Removers of the Liquid or Chemical Type.

Claims use since Mar. 1, 1951.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 617,739. The White-Haines Optical Company, Columbus, Ohio. Filed Aug. 15, 1951.

"B Service" and "Better Vision" are disclaimed. Applicant claims ownership of Registrations Nos. 210,411, 210,412, and 550,861.

For Prescription Service—Namely, Designing Spectacles or Eye Glasses or Parts Thereof in Accordance With the Individual Requirements of a Patient Previously Examined.

Claims use since June 1, 1925.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 606,371. Robert J. Dean, doing business as Radio-Games Service, New York, N. Y. Filed Nov. 14, 1950.

NAMO

For Advertising the Goods and Services of Others by Means of Radio Broadcasting Programs.

Claims use since Sept. 30, 1940.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 610,730. Atlantic Casualty Insurance Company, Newark, N. J. Filed Mar. 2, 1951.

ATLANTIC CASUALTY INSURANCE COMPANY

The words "Casualty Insurance Company" are disclaimed.

For Underwriting of Automobile Liability, Property Damage, Fire and Theft, Accident and Health Insurance.

Claims use since November 1933.

Ser. No. 615,484. Dearborn Motors Credit Corporation, Birmingham, Mich. Filed June 21, 1951.

DM CC

The lining represents lining forming part of the mark.

For Financing of Retail and Wholesale Purchases of Tractors and Farm Equipment.

Claims use since May 25, 1951.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 593,407. General Diaper Service Corp., New York and Elmhurst, N. Y. Filed Mar. 4, 1950.

GENERAL Diaper Service

The words "Diaper Service" are disclaimed. The drawing is lined for blue. Applicant claims ownership of Registration No. 338,309.

For Diaper Laundering Service—Namely, the Collection of Soiled Diapers, the Laundering Thereof, and the Delivery of Fresh Supplies of Diapers.

Claims use since Aug. 10, 1935.

Ser. No. 624,058. Seal-Peel, Inc., New York, N. Y., and Van Dyke City, Mich. Filed Jan. 24, 1952. (Sec. 2f.)

Seal-Peel

Applicant claims ownership of Registration No. 420,169.

For Treating Articles of Manufacture of Others With a Plastic Protective Coating for Shipping and Storage.

Claims use since Nov. 5, 1944.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 608,655. Florida Air Coach, Inc., Miami Beach, Fla. Filed Jan. 11, 1951.

FLORIDA AIRCOACH

The wording, except the word "Sunliners," is disclaimed.

For Transportation of Passengers and Freight by Aircraft.

Claims use since Feb. 11, 1950.

Ser. No. 618,214. Pascal System, Inc., Chicago, Ill. Filed Aug. 29, 1951. (Sec. 2f.)

PASCAL

For Rental of Automotive Vehicles—Namely, Passenger Cars and Trucks.

Claims use since 1930.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 597,077. Lynn E. Hodges, Topeka, Kans. Filed May 8, 1950.

THE WAY OF LIFE

For Providing Religious Guidance and Stimulating Interest in Christianity and the Doctrines of Jesus Christ in All Their Practical Applications to Both Spiritual and Physical Needs of All Phases of Life Through the Medium of a Radio Program Broadcast.

Claims use since Dec. 22, 1947.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,682. Door Lock Sets and Parts Thereof, Locks and Keys. Keil Lock Co., Inc., Charlestown, N. H.
Filed Apr. 24, 1947, Serial No. 521,262. Published Jan. 29, 1952. Class 25.

444,683. Plastic Panels, Dials, Discs, Buttons, and Knobs Used With Electrical Components of Various Instruments. Edwin A. Neugass, doing business as Plasteck Manufacturing Co., East Port Chester, Conn.
Filed July 4, 1947, Serial No. 526,272. Published Jan. 22, 1952. Class 21.

444,684. Plastic Panels, Dials, Discs, Buttons, and Knobs Used With Electrical Components of Various Instruments. Edwin A. Neugass, doing business as Plasteck Manufacturing Co., East Port Chester, Conn.
Filed July 4, 1947, Serial No. 526,273. Published Jan. 22, 1952. Class 21.

ACT OF 1946, PRINCIPAL REGISTER

557,790. Juvenile Furniture — Namely, Beds, Cribs, Chests, Chiffoniers, Wardrobes, Dressers, Tables, Chairs, Footstools, Play Pens and Mirrors. Colvin Corporation, Long Island City, N. Y.
Original filed, act of 1905, Apr. 24, 1947; amended to application under act of 1946, Principal Register, July 15, 1948, Serial No. 521,243. Published Jan. 15, 1952. Class 32.

557,791. Mattresses and Box Springs. Massachusetts Mattress Company, Boston, Mass.
Original filed, act of 1905, June 10, 1947; amended to application under act of 1946, Principal Register, Feb. 21, 1949, Serial No. 523,903. Published Jan. 15, 1952. Class 32.

557,792. Mattresses and Box Springs. Massachusetts Mattress Company, Boston, Mass.
Original filed, act of 1905, June 10, 1947; amended to application under act of 1946, Principal Register, Feb. 21, 1949, Serial No. 523,912. Published Jan. 22, 1952. Class 32.

557,793. Package Filling Machines. J. L. Ferguson Company, Joliet, Ill.
Filed July 5, 1947, Serial No. 527,495. Published Jan. 15, 1952. Class 23.

557,794. Salami Sausage. Luer Packing Company, Los Angeles, Calif.
Filed Aug. 23, 1947, Serial No. 532,240. Published Jan. 22, 1952. Class 46.

557,795. Alkaline Composition for Use in Degreasing and Cleaning Metal Parts Prior to Plating, Coating, or Vitreous Enameling. Wyandotte Chemicals Corporation, Wyandotte, Mich.
Filed Sept. 2, 1947, Serial No. 533,101. Published Jan. 22, 1952. Class 52.

557,796. Hydraulic Working Presses of All Kinds. E. W. Bliss Company, Detroit, Mich., and Toledo, Ohio.
Filed Sept. 6, 1947, Serial No. 533,663. Published Dec. 18, 1951. Class 23.

557,797. Hydraulic Jacks. March Engineering Company, Oshkosh, Wis., assignor, by mesne assignments, to Vulcan Manufacturing Co., Inc., Winona, Minn.
Filed Sept. 10, 1947, Serial No. 534,040. Published Jan. 15, 1952. Class 23.

557,798. Canned and Peeled Tomatoes With Puree and Tomato Paste. Flotill Products, Incorporated, Stockton, Calif.
Filed Sept. 19, 1947, Serial No. 535,017. Published Jan. 29, 1952. Class 46.

557,799. All Types of Milling-Cutters Including Plain, Side, Etc. National Tool Company, Cleveland, Ohio.
Filed Oct. 9, 1947, Serial No. 537,344. Published June 26, 1951. Class 23.

557,800. Hams, Bacon, Sausages, Lard, and Chili Con Carne. Armour & Company, doing business under the trade style Columbus Packing Company, Chicago, Ill.
Filed Nov. 7, 1947, Serial No. 540,362. Published Jan. 22, 1952. Class 46.

557,801. Dried Peas, Dried Lentils, and Dried Beans of the Following Varieties: Limas, Pintos, Small Reds, Baby Limas, Red Kidneys, Small Whites, Great Northerns, Blackeyes, Pinks, Cranberries, and Garbanzos. The Trinidad Bean & Elevator Company, Denver, Colo.
Filed Nov. 12, 1947, Serial No. 540,941. Published Jan. 22, 1952. Class 46.

557,802. Dried Beans and Dried Peas. The Trinidad Bean & Elevator Company, Denver, Colo.
Filed Nov. 12, 1947, Serial No. 540,942. Published Jan. 22, 1952. Class 46.

557,803. Bar Candy. Merrill Candy Company, Merrill, Wis.
Filed Sept. 26, 1947, Serial No. 541,370. Published Jan. 22, 1952. Class 46.

557,804. Rotary-Needle, Shuttle, and Bobbin Cases or Cabinets; Etc. The Boye Needle Company, Chicago, Ill.
Filed July 15, 1947, Serial No. 544,509. Published Jan. 15, 1952. Class 32.

557,805. Wheat Flour. Van Dusen Harrington Co., Minneapolis, Minn.
Filed Dec. 29, 1947, Serial No. 545,666. CONCURRENT USE. Published Jan. 22, 1952. Class 46.

557,806. Fresh Eggs. Poultry Producers of Central California, San Francisco, Calif.
Filed Jan. 22, 1948, Serial No. 547,767. Published Jan. 22, 1952. Class 46.

557,807. Flavoring Extracts in Liquid Form for Flavoring Foodstuffs. Firmenich & Co., Geneva, Switzerland.
Filed Feb. 28, 1948, Serial No. 550,799. Published Feb. 5, 1952. Class 46.

557,808. Wheat Flour. Flour Mills of America, Inc., doing business under the name and style of Kansas Flour Mills Company, Kansas City, Mo.
Filed Apr. 1, 1948, Serial No. 553,608. Published Dec. 11, 1951. Class 46.

557,809. Transformers; Relays; Valves Operated by an Electric Motor or Electromagnet, Etc. General Controls Co., Glendale, Calif.
Filed Apr. 5, 1948, Serial No. 553,843. Published Jan. 1, 1952. Class 21.

557,810. Solutions of Salts of Chlorinated Phenols for Fungicidal Use in Treating Materials Made of Natural and Synthetic Fibers Whether Said Materials Are in the Form of Fibers or Finished Products. Monsanto Chemical Company, St. Louis, Mo.
Filed May 26, 1948, Serial No. 557,861. Published Jan. 22, 1952. Class 6.

557,811. Ribbon Mounting Frames for Typewriting Machines, and Attachments Therefor—Namely, Form Guides and Holding Clips. Dupli-Typer Company, New York, N. Y.
Filed Apr. 26, 1948, Serial No. 559,441. Published Dec. 18, 1951. Class 23.

557,812. Laundry Detergents, Strongly Alkaline Detergents Used as Soap Builders, Etc. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed June 23, 1948, Serial No. 560,043. Published Jan. 22, 1952. Class 52.

557,813. Perfume. Richard Hudnut, New York, N. Y.
Filed July 15, 1948, Serial No. 561,468. Published Jan. 8, 1952. Class 51.

557,814. Face and Hand Creams and Shampoos. Duon, Inc., Coral Gables, Fla., and Dayton, Ohio.
Filed July 31, 1948, Serial No. 562,605. Published Nov. 15, 1949. Class 51.

557,815. Pesticide for Veterinary Use. Fort Dodge Laboratories, Inc., Fort Dodge, Iowa.
Filed Aug. 3, 1948, Serial No. 562,689. Published May 23, 1950. Class 18.

557,816. Candies. Harold W. Powers, doing business as Carew & Powers Co., Boston, Mass.
Filed Aug. 11, 1948, Serial No. 563,215. Published Feb. 5, 1952. Class 46.

557,817. Salt. International Salt Company, Scranton, Pa.
Filed Aug. 21, 1948, Serial No. 564,689. Published Jan. 29, 1952. Class 46.

557,818. Canned Tuna. The Halfhill Company, Los Angeles, Calif.
Filed Sept. 4, 1948, Serial No. 564,724. Published Jan. 29, 1952. Class 46.

557,819. Ladies' and Misses' Ready-To-Wear Clothing, Consisting of Coats, Suits, Capes, Jackets, Dresses, and Coat and Suit Ensembles. The May Department Stores Company, St. Louis, Mo., doing business as Kaufmann Department Stores, Pittsburgh, Pa.
Filed Sept. 18, 1948, Serial No. 565,443. CONCURRENT USE. Published Jan. 29, 1952. Class 39.

557,820. Plain and Iced Doughnuts, Twists, Bismarks, Eclairs, Cream Puffs, Fruit Tarts, Snails, and Figure Eights, and Pastry Bars and Rolls, Both Unfilled and Filled, and for a Mixture From Which Such Doughnuts and Other Pastry Items Are Made. Pelton's Spudnuts, Incorporated, Salt Lake City, Utah.
Filed Oct. 4, 1948, Serial No. 566,441. Published Jan. 29, 1952. Class 46.

557,821. Ladies' and Misses' Suits and Coats. Parkleigh Fashions, Inc., New York, N. Y.
Filed Oct. 7, 1948, Serial No. 566,643. CONCURRENT USE. Published Jan. 29, 1952. Class 39.

557,822. Electrode Carrying Cases, Sold Empty, and Made of Leather and Metal, Fabric and Metal, or Leather, Fabric, and Metal; Welder's Carrying Cases, Sold Empty, and Made Principally of Metal; and Cylinders for Compressed Gases, Made of Metal, and Sold or Rented Empty. National Cylinder Gas Company, Chicago, Ill.
Filed Oct. 14, 1948, Serial No. 566,998. Published Feb. 5, 1952. Class 2.

557,823. Electrically Driven Hoists and Traveling Cranes and Parts Thereof. Whiting Corporation, Harvey, Ill.
Filed Nov. 15, 1948, Serial No. 568,820. Published Jan. 1, 1952. Class 21.

557,824. Crushed Fruits and Crushed Nuts Used as Toppings for Ice Cream and the Like. Orange-Crush Company, Chicago, Ill.
Filed Nov. 17, 1948, Serial No. 568,973. Published Jan. 22, 1952. Class 46.

557,825. Olive Oil. J. Orlando Co. Inc., New York, N. Y.
Filed Nov. 18, 1948, Serial No. 569,008. Published Jan. 29, 1952. Class 46.

557,826. Fresh Citrus Fruits. Etiwanda Citrus Fruit Association, Etiwanda, Calif.
Filed Dec. 27, 1948, Serial No. 571,126. Published Feb. 5, 1952. Class 46.

557,827. Circuit Breakers, Switchgear, Relays, Bus Runs, Current Transformers, Potential Transformers, Resistors, and Rectifiers. I-T-E Circuit Breaker Company, Philadelphia, Pa.
Filed Jan. 11, 1949, Serial No. 571,968. Published Jan. 1, 1952. Class 21.

557,828. Chocolate Put Up in the Form of Bars, Tablets, Rolls, Sticks, and Candy. Aktiengesellschaft Chocolat Tobler, also trading as Chocolat Tobler, Limited, and Société Anonyme Chocolat Tobler, Berne, Switzerland.
Filed Jan. 26, 1949, Serial No. 572,823. Published Jan. 29, 1952. Class 46.

557,829. Boys' Novelty Felt Hats and Felt Caps. Benay Albee Novelty Co., Brooklyn, N. Y.
Filed Feb. 12, 1949, Serial No. 573,755. Published Jan. 15, 1952. Class 39.

557,830. Canned Cream of Pea Soup; Canned Consomme Madrilene; Etc. College Inn Food Products Company, Chicago, Ill.
Filed Feb. 16, 1949, Serial No. 573,919. Published Jan. 15, 1952. Class 46.

557,831. Free Discharge Valves, Gate Valves, By-Pass Valves, Check Valves, Etc. The Pelton Water Wheel Company, San Francisco, Calif.
Filed June 6, 1949, Serial No. 580,560. Published Feb. 27, 1951. Class 13.

557,832. Compounded Chicken Feed Including Various Grains, Linseed and Soybean Oil Meal, Molasses, and Minor Percentages of Salt and Calcium Carbonate From Limestone. Arcady Farms Milling Company, Chicago, Ill.
Filed Mar. 8, 1949, Serial No. 575,032. Published Nov. 27, 1951. Class 46.

557,833. Corn Starch for Food Purposes and Grated and Shredded Coconut Both Sold in Bulk. Stein, Hall & Company, Inc., New York, N. Y.
Filed Mar. 8, 1949, Serial No. 575,098. Published Feb. 5, 1952. Class 46.

557,834. Voltage Adapters Comprising Variable Voltage Transformers, Fuse Plugs, and High Speed Electrically Powered Grinder-Millers Adapted To Be Hand Operated or Mounted for Machine Operation. Precise Products Company, Racine, Wis.
Filed Apr. 7, 1949, Serial No. 576,769. Published Jan. 1, 1952. Class 21.

557,835. Swine and Poultry Feeds Containing Concentrated Brewers' Yeast, Condensed Buttermilk, Condensed Whey, and Wheat Germ Oil. Milk Products, Inc., Philadelphia, Pa.
Filed Apr. 9, 1949, Serial No. 576,872. Published Jan. 15, 1952. Class 46.

557,836. Candy—Namely, Butter Almond Toffee. The O. P. Baur Confectionery Company, Denver, Colo.
Filed Apr. 11, 1949, Serial No. 576,896. Published Jan. 29, 1952. Class 46.

557,837. Fresh Deciduous Fruits. Hansen Fruit & Cold Storage Co., Yakima, Wash.
Filed Apr. 26, 1949, Serial No. 577,716. Published Jan. 22, 1952. Class 46.

557,838. Clothes Washing Machines and Ironers. Altorfer Bros. Company, Peoria, Ill.
Filed Apr. 29, 1949, Serial No. 577,921. Published Jan. 29, 1952. Class 24.

557,839. Bakery Goods—Namely, Pan Rolls. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif., also doing business as Fairfax Bread Company, Washington, D. C., and various other places.
Filed May 3, 1949, Serial No. 578,169. Published Feb. 5, 1952. Class 46.

557,840. Graded and Packed Deciduous Fresh Fruit and Vegetables. Calvin B. Messick, Jr., doing business as C. B. Messick, Jr., Wauchula, Fla.
Filed May 17, 1949, Serial No. 578,989. Published Jan. 22, 1952. Class 46.

557,841. Steel Shelving Units, Upright Divided Wall Parts-Bins, Tool Storage Cabinets, Serving Counters, Storage Lockers, and Storage Cabinets. Neiman Steel Equipment Company, Inc., Philadelphia, Pa.
Filed May 20, 1949, Serial No. 579,205. Published Jan. 15, 1952. Class 32.

557,842. Play Pens. Lehigh Furniture Company, Easton, Pa.
Filed May 28, 1949, Serial No. 579,692. Published Jan. 29, 1952. Class 32.

557,843. Skid Platforms Containing Sectional Sides Which May Be Interlocked and Built Up To Give Height, Sold as a Unit. Pallet Devices, Inc., Des Plaines, Ill.
Filed June 15, 1949, Serial No. 580,506. Published Jan. 22, 1952. Class 50.

557,844. Electronic Devices—Namely, Television Receiving Sets. Video Corporation of America, Wilmington, Del., and New York, N. Y.
Filed June 17, 1949, Serial No. 580,703. Published Jan. 1, 1952. Class 21.

557,845. Spring Floors—Namely, Wooden Floors and Steel Springs Which Are Used Between the Joists and Flooring To Provide a Resilient Floor. Francis Morton (Spring Floors) Ltd., Middlesex, England.
Filed June 21, 1949, Serial No. 580,852. Published Dec. 25, 1951. Class 12.

557,846. Rouge and Eyeshadow. Elizabeth Arden Sales Corporation, New York, N. Y.
Filed June 29, 1949, Serial No. 581,236. Published Jan. 15, 1952. Class 51.

557,847. Hand Luggage—I. E., Suitcases and Overnight Bags. Philadelphia Leather Goods Corp., Philadelphia, Pa.
Filed July 1, 1949, Serial No. 581,440. Published May 23, 1950. Class 3.

557,848. Roller-Type Paint Applicator. The Kenwill Corporation, Cleveland, Ohio.
Filed July 2, 1949, Serial No. 581,486. Published Jan. 15, 1952. Class 29.

557,849. Metal Trims—Namely, Stair Tread Nosings, Counter Nosings, Etc. The B. & T. Metals Company, Columbus, Ohio.
Filed July 14, 1949, Serial No. 581,930. Published Dec. 25, 1951. Class 12.

557,850. Horse Meat Used as a Food for Dogs and Cats. Paul Kuick, doing business as Macomb Food Supply, Centerline, Mich.
Filed July 30, 1949, Serial No. 582,733. Published Jan. 22, 1952. Class 46.

557,851. Salt Used for Melting Ice and Snow. Pioneer Salt Company, Philadelphia, Pa.
Filed Aug. 9, 1949, Serial No. 583,216. Published Jan. 29, 1952. Class 6.

557,852. Men's Clothing—Namely, Men's Topcoats and Suits. Society Brand Clothes, Inc., Chicago, Ill.
Filed Aug. 27, 1949, Serial No. 584,163. Published Feb. 27, 1951. Class 39.

557,853. Angularly Adjustable and Extensible Plier. Karl G. Klenk, doing business as Karl Klenk, Wilmington, Del.
Filed Aug. 30, 1949, Serial No. 584,240. Published Nov. 20, 1951. Class 23.

557,854. Liquid Chemical Compound for Use as an Additive to Solvents Used in the Dry Cleaning Industry To Enhance the Cleaning Properties of the Solvents. Jacob F. Katz, doing business as Nutrosol Company, Brooklyn, N. Y.
Filed Sept. 17, 1949, Serial No. 584,987. Published Jan. 22, 1952. Class 52.

557,855. Transformers. Kuhlman Electric Co., Bay City, Mich.
Filed Oct. 1, 1949, Serial No. 585,650. Published Jan. 1, 1952. Class 21.

557,856. Marmalade, Fruit Jellies, and Jams. Chivers & Sons, Limited, Histon, Cambridge, England.
Filed Oct. 1, 1949, Serial No. 586,224. Published Jan. 8, 1952. Class 46.

557,857. Over-Nite Cream, Texture Cream, Cleansing Cream, Skin Refresher and Astringent, Skin Bracer, Masque, Face Powder, and Powder Base. Richard Estrin, New York, N. Y., trading as Para Laboratories.
Filed Oct. 21, 1949, Serial No. 586,634. Published Jan. 22, 1952. Class 51.

557,858. Wall Cabinets, Floor Cabinets, Doors, Etc. Geneva Modern Kitchens, Inc., Geneva, Ill.
Filed Nov. 1, 1949, Serial No. 587,104. Published Jan. 29, 1952. Class 32.

557,859. Canned Asparagus. Hickmott Canning Co., Antioch, Calif.
Filed Nov. 8, 1949, Serial No. 587,487. Published Jan. 29, 1952. Class 46.

557,860. Snares. Animal Trap Company of America, Lititz, Pa.
Filed Aug. 26, 1949, Serial No. 587,577. Published Jan. 8, 1952. Class 50.

557,861. Electric Sound Recording and Reproducing Machines and Parts Thereof. The Soundscriber Corporation, New Haven, Conn.
Filed Nov. 10, 1949, Serial No. 587,658. Published Oct. 24, 1950. Class 21.

557,862. Auxiliary Folding Table Top. I. Levy Sons, New York, N. Y.
Filed Nov. 23, 1949, Serial No. 588,225. Published Jan. 22, 1952. Class 32.

557,863. Insulating Material—Namely, Insulating Cement; Mineral Wool in Loose Form and in the Forms of Batts and Blankets. Tennessee Products & Chemical Corporation, Nashville, Tenn.
Filed Nov. 25, 1949, Serial No. 588,334. Published Jan. 22, 1952. Class 12.

557,864. System of Store Furniture Comprised of a Large Variety of Units, Etc. Grand Rapids Store Equipment Company, Grand Rapids, Mich.
Filed Nov. 28, 1949, Serial No. 588,435. Published Jan. 1, 1952. Class 32.

557,865. Handicraft Kits—Namely, Textile Painting Kits Containing Cut Stencils, Stencil Paper, Paint, Thinner, Cleaner, Brush, and Instructions. Marjorie J. Hagstrom, doing business as Gift Maker Company, Kansas City, Mo.
Filed Dec. 2, 1949, Serial No. 588,687. Published Jan. 15, 1952. Class 50.

557,866. Barbecue Sauce. William B. Smock, doing business as W. B. Smock Mfg., Ridgecrest, Calif.
Filed Dec. 6, 1949, Serial No. 588,902. Published Dec. 11, 1951. Class 46.

557,867. Lipstick and Nail Lacquer. Chen Yu, Inc., New York, N. Y., assignor to Richard Hudnut, New York, N. Y., a corporation of New York.
Filed Dec. 10, 1949, Serial No. 589,146. Published Jan. 8, 1952. Class 51.

557,868. Corn Syrup as a Food Ingredient. Union Starch and Refining Company, Columbus, Ind.
Filed Dec. 22, 1949, Serial No. 589,816. Published Jan. 22, 1952. Class 46.

557,869. Candies, Such as Chocolates. The O. P. Baur Confectionery Company, Denver, Colo.
Filed Dec. 27, 1949, Serial No. 589,946. Published Jan. 22, 1952. Class 46.

557,870. Candies, Such as Chocolates. The O. P. Baur Confectionery Company, Denver, Colo.
Filed Dec. 27, 1949, Serial No. 589,947. Published Jan. 22, 1952. Class 46.

557,871. Metal Products—Namely, Awnings, Canopies, Shutters, Window Visors, and Decorative Railings. The Falls Stamping & Welding Co., Cuyahoga Falls, Ohio.
Filed Dec. 28, 1949, Serial No. 590,016. Published Jan. 1, 1952. Class 12.

557,872. Storage Batteries. Texan Battery Company, Cleburne, Tex.
Filed Dec. 30, 1949, Serial No. 590,192. Published Oct. 17, 1950. Class 21.

557,873. Aluminum Suspension System for Acoustical Tiles. The Mid-West Acoustical & Supply Co., Cleveland, Ohio.
Filed Dec. 31, 1949, Serial No. 590,231. Published Jan. 1, 1952. Class 12.

557,874. Roofing Supplies and Equipment—Namely, Roof Scrapers, Slag Pushers, Dippers, Dipper Handles, Mop Vises, and Hoisting Wheels. David Levow, New York, N. Y.
Filed Jan. 6, 1950, Serial No. 590,445. Published Dec. 18, 1951. Class 23.

557,875. Sweeping Compound. James P. Siamatas, doing business as National Sweeping Compound Co., Ipswich and Rowley, Mass.
Filed Jan. 19, 1950, Serial No. 591,110. Published Jan. 22, 1952. Class 52.

557,876. Machine Tools and Parts Thereof—Namely, Precision Boring and Milling Machines and Tools. Devlieg Machine Company, Ferndale, Detroit, Mich.
Filed Jan. 25, 1950, Serial No. 591,408. Published Nov. 27, 1951. Class 23.

557,877. Shampoo. Helene Curtis Industries, Inc., Chicago, Ill.
Filed Jan. 26, 1950, Serial No. 591,458. Published Jan. 22, 1952. Class 52.

557,878. Wardrobes and Refreshment Bars. Vito M. Renna, doing business as Coast Store Fixture and Manufacturing Company, Los Angeles, Calif.
Filed Jan. 26, 1950, Serial No. 591,514. Published Jan. 15, 1952. Class 32.

557,879. Fig Bars. Modern Biscuit Corporation, Brooklyn, N. Y.
Filed Jan. 27, 1950, Serial No. 591,579. Published Jan. 22, 1952. Class 46.

557,880. Canned, Sliced, Cubed, and Crushed Pineapple and Canned Pineapple Juices for Food Purposes. Puerto Rico Agricultural Company, San Juan, P. R., and New York, N. Y.
Filed Jan. 30, 1950, Serial No. 591,699. Published Jan. 22, 1952. Class 46.

557,881. Chemical With Surface Active Hydrotropic and Wetting Properties Useful To Assist the Wetting and Detergent Action of Aqueous Solutions. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Feb. 1, 1950, Serial No. 591,797. Published Jan. 29, 1952. Class 6.

557,882. Grids for Cooking Devices—Namely, Grids for Electric Waffle Bakers. McGraw Electric Company, Elgin, Ill.
Filed Feb. 3, 1950, Serial No. 591,940. Published Jan. 29, 1952. Class 21.

557,883. Pillows Made of Latex Foam Rubber. Gerry Nufoam Products Corporation, New York, N. Y.
Filed Feb. 17, 1950, Serial No. 592,623. Published Jan. 15, 1952. Class 32.

557,884. Pillows Made of Latex Foam Rubber. Gerry Nufoam Products Corporation, New York, N. Y.
Filed Feb. 17, 1950, Serial No. 592,624. Published Jan. 15, 1952. Class 32.

557,885. Organic and Inorganic Chemicals for Use in Cleaning Metals, Metallic Surfaces, and Metal Products. Monsanto Chemical Company, St. Louis, Mo.
Filed Feb. 17, 1950, Serial No. 592,655. Published Jan. 22, 1952. Class 52.

557,886. Cabinets for Sinks, Cabinets for Drain-Board Sinks, and Fillers Therefor. United Metal Box Co., Inc., Brooklyn, N. Y.
Filed Mar. 1, 1950, Serial No. 593,249. Published Jan. 29, 1952. Class 32.

557,887. Cabinets for Sinks, Cabinets for Drain-Board Sinks, and Fillers Therefor. United Metal Box Co., Inc., Brooklyn, N. Y.
Filed Mar. 1, 1950, Serial No. 593,250. Published Jan. 29, 1952. Class 32.

557,888. Potato Salad Dressing Composed of Flour, Sugar, Salt, and Pepper. Best Food Products Company, Milwaukee, Wis.
Filed Mar. 10, 1950, Serial No. 593,707. Published Feb. 5, 1952. Class 46.

557,889. Bedroom Furniture—Namely, Dressers, Chests, Vanities, Beds, Chests on Chests, Chest Desks, Chest Robes, Highboys, Lowboys, Night Tables, Chairs, Stools, and Benches. Chautauqua Cabinet Company, doing business under the name "Kling Factories," Mayville, N. Y.
Original filed, act of 1946, Supplemental Register, Mar. 14, 1950; amended to application, Principal Register, Feb. 27, 1951, Serial No. 593,907. Published Jan. 8, 1952. Class 32.

557,890. Natural and Synthetic Essential Oils, Aromatic Chemicals From Natural or Other Sources, Used as a Flavoring Material or an Ingredient in Medicines and Pharmaceutical Preparations. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Mar. 18, 1950, Serial No. 594,208. Published Dec. 11, 1951. Class 18.

557,891. Articles of Furniture—Namely, Tables, Desks, Seats, Chairs, Stools, Couches, Sofas, Beds, Chests, Cabinets, and Trays. Knoll Associates, Inc., New York, N. Y.
Filed Mar. 22, 1950, Serial No. 594,383. Published Jan. 1, 1952. Class 32.

557,892. Tools for Boring and Drilling. Carboloy Company, Inc., Detroit, Mich., now by merger General Electric Company, a corporation of New York.
Filed Mar. 28, 1950, Serial No. 594,757. Published Dec. 18, 1951. Class 23.

557,893. Articles of Furniture—Namely, Tables, Desks, Seats, Chairs, Stools, Couches, Sofas, Beds, Chests, Cabinets, and Trays. Knoll Associates, Inc., New York, N. Y.
Filed Apr. 1, 1950, Serial No. 595,076. Published Jan. 1, 1952. Class 32.

557,894. Face Creams, Skin Creams, Cleansing Creams, Etc. Stanley Floreskul, doing business as The 8F Laboratories, Boston, Mass.
Filed Apr. 5, 1950, Serial No. 595,253. Published Dec. 11, 1951. Class 51.

557,895. Electrically Heated Egg Washer. C. Gilbert Paden, Harrisburg, Pa., assignor to Whirlaway Egg Washer Company, Harrisburg, Pa., a partnership composed of himself and Miriam J. Wachtman, Harrisburg, Pa.
Filed Apr. 18, 1950, Serial No. 595,909. Published Jan. 8, 1952. Class 21.

557,896. Poultry and Stock Feeds. Zeb Pearce & Sons, Mesa, Ariz.
Filed Mar. 14, 1950, Serial No. 596,638. Published Feb. 5, 1952. Class 46.

557,897. Margarine. E. F. Drew & Co., Inc., New York, N. Y.
Filed May 18, 1950, Serial No. 597,672. Published Feb. 5, 1952. Class 46.

557,898. Insecticidal Liquid Preparation for Cleansing and Deodorizing Dogs. Polk Miller Products Corporation, Richmond, Va.
Filed June 2, 1950, Serial No. 598,500. Published Jan. 22, 1952. Class 52.

557,899. Kits Containing Materials for Applying Decorative Finishes to Surfaces—Namely, Lacquers, Decalcomania Transfers Comprising Lacquer Films, and Solutions in the Nature of Lacquer Solvents for the Mounting of Transfers. The Di-Noc Company, Cleveland, Ohio.
Filed June 7, 1950, Serial No. 598,714. Published Dec. 4, 1951. Class 50.

557,900. Baby Furniture and Equipment—Namely, Baby Bassinets. Harold L. Kirby, Glendale, Calif.
Filed June 8, 1950, Serial No. 598,798. Published Jan. 8, 1952. Class 32.

557,901. Doughnuts. Nedick's, Inc., New York, N. Y.
Filed June 10, 1950, Serial No. 598,923. Published Feb. 5, 1952. Class 46.

557,902. Negative Film Developer. Leonard W. Sturm, doing business as Development Engineering Company, Decatur, Ill.
Filed June 12, 1950, Serial No. 598,967. Published Jan. 29, 1952. Class 6.

557,903. Hair Cream. Alannize Enterprises, New York, N. Y.
Filed July 5, 1950, Serial No. 600,206. Published Dec. 25, 1951. Class 51.

557,904. Bakery Products — Namely, Crackers, and Cookies. Carr-Consolidated Biscuit Company, Wilkes-Barre, Pa.
Filed July 5, 1950, Serial No. 600,209. Published Jan. 29, 1952. Class 46.

557,905. Decorative and Animated Lighting Displays Consisting of Intermittently Illuminated Electric Lamps on Portable Lamp Cords. Northern Signal Company, Milwaukee, Wis.
Filed July 8, 1950, Serial No. 600,393. Published Jan. 22, 1952. Class 21.

557,906. Sewing Machines and Their Parts. Mila, Zavody na Sici Stroje, Narodni Podnik, also doing business under the name Mila, Sewing Machine Factory, National Corporation, Opava, Czechoslovakia, now by change of name Minerva, narodni podnik.
Filed July 11, 1950, Serial No. 600,498. Published Dec. 18, 1951. Class 23.

557,907. Sewing Machines and Parts. Mila, Zavody na Sici Stroje, Narodni Podnik, also doing business under the name Mila, Sewing Machine Factory, National Corporation, Opava, Czechoslovakia, now by change of name Minerva, narodni podnik.
Filed July 11, 1950, Serial No. 600,499. Published Dec. 18, 1951. Class 23.

557,908. Canned Fish. Peninsula Packing Company, Monterey, Calif.
Filed July 11, 1950, Serial No. 600,505. Published Jan. 22, 1952. Class 46.

557,909. Household Brooms. Richmond Broom Company, Richmond, Va.
Filed July 11, 1950, Serial No. 600,510. Published Jan. 15, 1952. Class 29.

557,910. Body Lotion in the Nature of a Skin Freshener. John Robert Powers Products Co., Inc., Wilmington, Del., and New York, N. Y.
Filed July 13, 1950, Serial No. 600,617. Published Dec. 25, 1951. Class 51.

557,911. Men's Outer Jackets. Winer Manufacturing Co., Inc., Hammond, Ind.
Filed July 13, 1950, Serial No. 600,637. Published Jan. 8, 1952. Class 39.

557,912. Wheat Flour. General Mills, Inc., Minneapolis, Minn.
Filed July 14, 1950, Serial No. 600,659. CONCURRENT USE. Published Jan. 22, 1952. Class 46.

557,913. Shipping Pails, Shipping Pails Provided With Marks Indicating Approximate Contents at Various Levels, Garbage Cans, and Waste Baskets Made of Sheet Metal. J & L Steel Barrel Company, New York, N. Y.
Filed July 15, 1950, Serial No. 600,726. Published Feb. 5, 1952. Class 2.

557,914. Auxiliary Automobile Cushions and Chair Pads. North American Rubber Corporation, Los Angeles (South Gate), Calif.
Filed July 17, 1950, Serial No. 600,783. Published Jan. 29, 1952. Class 32.

557,915. Mattresses. Shifman Bros., Newark, N. J.
Filed July 19, 1950, Serial No. 600,920. Published Jan. 29, 1952. Class 32.

557,916. Cosmetics and Toilet Preparations—Namely, Face Powders, Etc. Grant T. Whiteside, doing business as Grant Company, Sabina, Ohio.
Filed July 26, 1950, Serial No. 601,293. Published Dec. 25, 1951. Class 51.

557,917. Fresh Vegetables. E. J. Russell, doing business as Independent Growers Co., Salinas, Calif.
Filed July 28, 1950, Serial No. 601,378. Published Dec. 25, 1951. Class 46.

557,918. Men's Outer Jackets. Winer Manufacturing Co., Inc., Hammond, Ind.
Filed July 28, 1950, Serial No. 601,388. Published Jan. 8, 1952. Class 39.

557,919. Men's Outer Jackets. Winer Manufacturing Co., Inc., Hammond, Ind.
Filed July 28, 1950, Serial No. 601,389. Published Jan. 8, 1952. Class 39.

557,920. Electrical Lighting Units and Parts Thereof. Swiveller Company, Inc., New York, N. Y.
Filed Aug. 3, 1950, Serial No. 601,697. Published Jan. 1, 1952. Class 21.

557,921. Refrigeration Packaging Products—Namely, Aluminum Wrapping Foil. International Harvester Company, Chicago, Ill.
Filed Aug. 5, 1950, Serial No. 601,794. Published July 17, 1951. Class 14.

557,922. Perfume and Cosmetics—Namely, Face Powder, Face Rouge, Lipstick, Cold Creams, Mascara, Nail Polish, Hand Cream, Face Lotion, Hair Lotion, Tooth Paste, and Tooth Powder. Marie-Francoise Mascletet, doing business under the name of Francesca Mascletet, Paris, France.
Filed Aug. 5, 1950, Serial No. 602,077. Published Jan. 15, 1952. Class 51.

557,923. Toy Cash Register. Kamkap, Inc., New York, N. Y.
Filed Aug. 14, 1950, Serial No. 602,154. Published Jan. 29, 1952. Class 22.

557,924. Ladies' Sportswear—Namely, Blouses, Skirts, and Jackets. M. R. Fleischman Co., San Francisco, Calif.
Filed Aug. 17, 1950, Serial No. 602,315. Published Jan. 29, 1952. Class 39.

557,925. Perfumes, Cologne, Toilet Waters. Adam's Perfumes, Inc., New York, N. Y.
Filed Aug. 21, 1950, Serial No. 602,481. Published Jan. 8, 1952. Class 51.

557,926. Plastic Pipe Joint Compound. The Sealube Company, Reading, Mass.
Filed Aug. 23, 1950, Serial No. 602,643. Published Jan. 15, 1952. Class 12.

557,927. Roofing Cement, Bituminous Base Coating Compositions for Roofs and Other Construction Purposes, Etc. Allied Chemical & Dye Corporation, New York, N. Y.
Filed Aug. 29, 1950, Serial No. 602,875. Published Jan. 15, 1952. Class 12.

557,928. Natural or Synthetic Perfumery Compositions, Aromatic Chemicals From Natural or Other Sources Used as a Base or an Ingredient for Cosmetics and Toilet Preparations. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Sept. 1, 1950, Serial No. 603,054. Published Jan. 8, 1952. Class 51.

557,929. Hair Rinse and Lipstick. Helena Rubinstein, Inc., New York, N. Y.
Filed Sept. 7, 1950, Serial No. 603,254. Published Jan. 8, 1952. Class 51.

557,930. Hair Rinse and Lipstick. Helena Rubinstein, Inc., New York, N. Y.
Filed Sept. 7, 1950, Serial No. 603,255. Published Jan. 8, 1952. Class 51.

557,931. Articles of Furniture—Namely, Tables, Desks, Seats, Chairs, Stools, Couches, Sofas, Beds, Chests, Cabinets, and Trays. Knoll Associates, Inc., New York, N. Y.
Filed Sept. 8, 1950, Serial No. 603,301. Published Jan. 8, 1952. Class 32.

557,932. Sofas, Tailored Chairs, Divans, Couches, Settees, Lounges, and Pillows for Such Items. The Arrow Upholstery Company, New York, N. Y.
Filed Sept. 12, 1950, Serial No. 603,429. Published Jan. 29, 1952. Class 32.

557,933. Sofas, Tailored Chairs, Divans, Couches, Settees, Lounges, and Pillows for Such Items. The Arrow Upholstery Company, New York, N. Y.
Filed Sept. 12, 1950, Serial No. 603,430. Published Jan. 29, 1952. Class 32.

557,934. Sofas, Tailored Chairs, Divans, Couches, Settees, Lounges, and Pillows for Such Items. The Arrow Upholstery Company, New York, N. Y.
Filed Sept. 12, 1950, Serial No. 603,431. Published Jan. 29, 1952. Class 32.

557,935. Natural or Synthetic Perfumery Compositions, Natural and Synthetic Essential Oils, Aromatic Chemicals, Used as a Base or an Ingredient in Perfumery. Firmenich & Co., New York, N. Y., assignor to Firmenich, Incorporated, New York, N. Y., a corporation of Delaware.
Filed Sept. 12, 1950, Serial No. 603,443. Published Jan. 8, 1952. Class 51.

557,936. Canned Fruit Mix for Making Ice Cream. Limpert Bros., Inc., New York, N. Y., and Vineland, N. J.
Filed Sept. 12, 1950, Serial No. 603,453. Published Dec. 4, 1951. Class 46.

557,937. Disintegrating Machines That Cut Large Pieces of Bulk Fibrous Materials, Etc. Mitts & Merrill, Saginaw, Mich.
Filed Sept. 13, 1950, Serial No. 603,493. Published Dec. 25, 1951. Class 23.

557,938. Air Pressurized Apparatus Comprising Material Containers, Etc. Bondact, Kansas City, Mo.
Filed Sept. 18, 1950, Serial No. 603,660. Published Dec. 18, 1951. Class 23.

557,939. Cold Rolled Steel Strip and Sheet and Hot Rolled Steel Strip, Sheet and Plate, Bars, and Structural Shapes. Kaiser Steel Corporation, Oakland, Calif.
Filed Sept. 18, 1950, Serial No. 603,687. Published Jan. 29, 1952. Class 14.

557,940. Insecticide. Davis Manufacturing Co., Inc., Knoxville, Tenn.
Filed Sept. 20, 1950, Serial No. 603,771. Published July 31, 1951. Class 6.

557,941. Mops and Mop Heads Made From Strands of Fibrous Textile Material. Piedmont Mop Company, Incorporated, Charlotte, N. C.
Filed Sept. 26, 1950, Serial No. 604,024. Published Jan. 15, 1952. Class 29.

557,942. Mops and Mop Heads Made From Strands of Fibrous Textile Material. Piedmont Mop Company, Incorporated, Charlotte, N. C.
Filed Sept. 26, 1950, Serial No. 604,025. Published Jan. 15, 1952. Class 29.

557,943. Mops and Mop Heads Made From Strands of Fibrous Textile Material. Piedmont Mop Company, Incorporated, Charlotte, N. C.
Filed Sept. 26, 1950, Serial No. 604,026. Published Jan. 15, 1952. Class 29.

557,944. Mops and Mop Heads Made From Strands of Fibrous Textile Material. Piedmont Mop Company, Incorporated, Charlotte, N. C.
Filed Sept. 26, 1950, Serial No. 604,027. Published Jan. 15, 1952. Class 29.

557,945. Mops and Mop Heads Made From Strands of Fibrous Textile Material. Piedmont Mop Company, Incorporated, Charlotte, N. C.
Filed Sept. 26, 1950, Serial No. 604,028. Published Jan. 15, 1952. Class 29.

557,946. Products Made of Steel, and Other Materials—Namely, Plain Steel Bars, Etc. Truscon Steel Company, Youngstown, Ohio.
Filed Sept. 26, 1950, Serial No. 604,042. Published Jan. 15, 1952. Class 12.

557,947. Automatic Dog Feeder and Waterer Structure Sold as a Unit. James R. Coffing Company, Danville, Ill.
Filed Sept. 30, 1950, Serial No. 604,254. Published Jan. 22, 1952. Class 50.

557,948. Cotton Mattresses, Cotton Felt Mattresses, Hair Mattresses, Lamb's Wool Mattresses, Mattresses With Inner Spring Center, Sofa and Couch Cushions, Studio Couches, Box Springs, and Pillows. The International Bedding Company, Baltimore, Md.
Filed Oct. 2, 1950, Serial No. 604,304. Published Jan. 15, 1952. Class 32.

557,949. Ice Cream. Martha Washington Candies Co., Chicago, Ill.
Filed Oct. 2, 1950, Serial No. 604,334. Published Jan. 22, 1952. Class 46.

557,950. Windows of the Metal Type—Namely, Storm Windows. William A. Bowman, doing business under the name of WABCO, Baltimore, Md.
Filed Oct. 4, 1950, Serial No. 604,417. Published Jan. 22, 1952. Class 12.

557,951. Display Devices Simulating a Decorated Christmas Tree. Ensign-Shaw Company, Inc., New Canaan, Conn.
Filed Oct. 4, 1950, Serial No. 604,426. Published Jan. 15, 1952. Class 50.

557,952. Folding Metal Tables, Folding Steel Chairs, and Metal Serving Carts. Plaut & Lederman, Chicago, Ill.
Filed Oct. 12, 1950, Serial No. 604,803. Published Jan. 29, 1952. Class 32.

557,953. Men's and Boys' Wearing Apparel—Namely, Sport Jackets. David D. Doniger & Co. Inc., New York, N. Y.
Filed Oct. 13, 1950, Serial No. 604,841. Published Jan. 15, 1952. Class 39.

557,954. Suitcases, Week-End Cases, Attaché Cases, Wardrobe Trunks, Steamer Trunks, Pullman Trunks, Trunks, Overnight Cases, Train Cases, Vanity Cases, Shoe Cases, Wardrobe Cases, Hat Cases, Document Cases and Handbags. Revelation Supplies Limited, Chiswick, London, England.
Filed Oct. 17, 1950, Serial No. 605,059. Published Jan. 15, 1952. Class 3.

557,955. Electrically Operated Drying Apparatus. Edi Products Inc., Brooklyn, N. Y.
Filed Oct. 19, 1950, Serial No. 605,149. Published Jan. 22, 1952. Class 21.

557,956. Cooked and Seasoned Fish Product, Comprising Ground or Flaked Fish Mixed With a Food Binder, Including Seasoning, and Formed Into a Substantial Cylinder, Then Cooked in Deep Fat. Moland & Son Manufacturing Co., Okeene, Okla.
Filed Oct. 19, 1950, Serial No. 605,171. Published Feb. 5, 1952. Class 46.

557,957. Men's, Women's, and Children's Lumber Jackets, Bomber Jackets, Surcoat Jackets, Pea-Jackets, Casual Coats, Sport Coats, Leisure Jackets, and Storm Coats. White Valley Corporation, Amsterdam, N. Y.
Filed Oct. 19, 1950, Serial No. 605,187. Published Jan. 15, 1952. Class 39.

557,958. Jar and Bottle Openers. Bushman Products, Inc., Chicago, Ill.
Filed Oct. 27, 1950, Serial No. 605,463. Published Dec. 18, 1951. Class 23.

557,959. Artificial and Synthetic Perfumery Compositions, Natural and Synthetic Essential Oils and Aromatic Chemicals From Natural or Other Sources Used as a Base or an Ingredient in Perfumery for Cosmetics and Toilet Preparations. Firmenich Incorporated, New York, N. Y.
Filed Oct. 27, 1950, Serial No. 605,475. Published Jan. 15, 1952. Class 51.

557,960. Ladies' Handbags. Handbag Metal Specialties, Inc., New York, N. Y.
Filed Oct. 31, 1950, Serial No. 605,656. Published Jan. 15, 1952. Class 3.

557,961. Men's, Women's and Children's Wearing Apparel—Namely, Suits, Coats, Etc. Ber-Tals Apparel Shop, Chicago, Ill.
Original filed, act of 1946, Supplemental Register, Nov. 1, 1950; amended to application, Principal Register, Sept. 21, 1951, Serial No. 605,711. Published Jan. 15, 1952. Class 39.

557,962. Chocolate Candy. Lindt & Sprungli, Inc., New York, N. Y.
Filed Nov. 1, 1950, Serial No. 605,750. Published Jan. 29, 1952. Class 46.

557,963. Portable Bar Consisting of a Fitted Piece of Luggage With Compartments Therein for Bottles, Glasses, and Other Drinking Accessories. Robert G. Ewell, Berkeley, Calif.
Filed Nov. 2, 1950, Serial No. 605,788. Published Jan. 15, 1952. Class 3.

557,964. Canned Peas, Diced Carrots, Whole Kernel Corn, Cut Green Beans, Sliced Beets, Blackberries, Freestone Peaches, Plums, Bartlett Pears, and Salmon; Frozen Strawberries, Raspberries, Etc. Roy E. Ingalls, Sumner, Wash.
Filed Nov. 2, 1950, Serial No. 605,793. Published Jan. 22, 1952. Class 46.

557,965. Solid Catalyst. Universal Oil Products Company, Chicago, Ill.
Filed Nov. 4, 1950, Serial No. 605,933. Published Jan. 29, 1952. Class 6.

557,966. Alkali-Vaporous Discharge Tubes. FKG Fritz Kesselring Geräitebau A. G., Bachtobel-Weinfelden, Thurgau, Switzerland.
Filed Nov. 20, 1950, Serial No. 606,654. Published Jan. 8, 1952. Class 21.

557,967. Potatoes in the Natural State. Northampton Potato Company, Northampton, Mass.
Filed Nov. 21, 1950, Serial No. 606,720. Published Jan. 22, 1952. Class 46.

557,968. Roofing Cement for Cementing Down the Edges of Any Type Roofing. American Asphalt Roof Corporation, Kansas City, Mo.
Filed Nov. 22, 1950, Serial No. 606,745. Published Jan. 8, 1952. Class 12.

557,969. Building Fronts — Namely, Decorative Wall Panels; Panels Composed of Steel, Concrete, and Enamel, Attaching Clips Therefor, Molding, Enameled Metal Tile, Decorative Trim Panels for Structural Members. Martin Hoffman Co., Livonia, Mich.
Filed Nov. 22, 1950, Serial No. 606,775. Published Jan. 15, 1952. Class 12.

557,970. Portable Display, Presentation and Bulletin Boards for Use in Connection With Instructions and Display of Goods, for Supporting Instruction Sheets and Devices Thereon and Usable as a Screen for Light Projection. Arthur O. Harris, Buffalo, N. Y., assignor to Edwin S. Burrows, Eden, N. Y.
Filed Nov. 24, 1950, Serial No. 606,868. Published Dec. 4, 1951. Class 50.

557,971. Name Plates. Miller Dial and Name Plate Company, Los Angeles, Calif.
Filed Nov. 25, 1950, Serial No. 606,926. Published Dec. 25, 1951. Class 50.

557,972. Upholstered Furniture — Namely, Two-Piece Living Room Suites, Occasional Chairs, Sofa-Beds, and Davenports. Oklahoma Furniture Manufacturing Company, Guthrie, Okla.
Filed Nov. 25, 1950, Serial No. 606,927. Published Jan. 15, 1952. Class 32.

557,973. Canned Fruits, Canned Vegetables, Canned Fish, Etc. Milton Anderson Co., Atlantic City, N. J.
Filed Dec. 22, 1950, Serial No. 607,974. Published Feb. 5, 1952. Class 46.

557,974. Mops and Mop Heads Made From Strands of Fibrous Textile Material. Piedmont Mop Company, Incorporated, Charlotte, N. C.
Filed Jan. 3, 1951, Serial No. 608,324. Published Jan. 22, 1952. Class 29.

557,975. Molasses Dried With Brewers' Grains for Inclusion in Livestock and Animal Feeds. Standard Brands Incorporated, New York, N. Y.
Filed Jan. 4, 1951, Serial No. 608,386. Published Jan. 22, 1952. Class 46.

557,976. Brushes for Use by Artists. Glenwood S. Mack, doing business as Andrew Mack & Son, Jonesville, Mich.
Filed Jan. 5, 1951, Serial No. 608,424. Published Jan. 15, 1952. Class 29.

557,977. Dry Cells and Dry Cell Batteries. Manufacturers Battery Company, Madison, Wis.
Filed Jan. 8, 1951, Serial No. 608,506. Published Jan. 22, 1952. Class 21.

557,978. Dry Cells and Dry Cell Batteries. Manufacturers Battery Company, Madison, Wis.
Filed Jan. 8, 1951, Serial No. 608,507. Published Jan. 22, 1952. Class 21.

557,979. Plastic and Metal Identification Tags, Markers, and/or Holders for Same. The Hopp Press, Inc., New York, N. Y.
Filed Jan. 9, 1951, Serial No. 608,545. Published Jan. 15, 1952. Class 50.

557,980. Packaging Material Consisting of Aluminum Foil. Acme Backing Corporation, Brooklyn, N. Y.
Filed Jan. 12, 1951, Serial No. 608,691. Published Jan. 22, 1952. Class 14.

557,981. Granulated or Powdered Refractory Materials for Fireproofing, Heating Insulation, and Confining Molten Metals. Blair Products, Detroit, Mich.
Filed Jan. 12, 1951, Serial No. 608,697. Published Jan. 8, 1952. Class 12.

557,982. Electric Welding Guns. Viking Products, Vicksburg, Mich.
Filed Jan. 20, 1951, Serial No. 609,062. Published Jan. 29, 1952. Class 21.

557,983. Wardrobes, Folding Partitions, and Structural Parts for Wardrobes and Folding Partitions. John T. Fairhurst Co. Inc., New York, N. Y.
Filed Jan. 24, 1951, Serial No. 609,172. Published Jan. 15, 1952. Class 32.

557,984. Fabrics Coated or Impregnated for Resistance to Water and/or Mold and Sold as Artificial Leather. Farrington Texol Corporation, Walpole, Mass.
Filed Feb. 2, 1951, Serial No. 609,543. Published Dec. 25, 1951. Class 50.

557,985. Fish Hooks. Wright & McGill Co., Denver, Colo.
Filed Feb. 2, 1951, Serial No. 609,581. Published Jan. 29, 1952. Class 22.

557,986. Wheat Flour. The Kansas Milling Company, Wichita, Kans.
Filed Feb. 5, 1951, Serial No. 609,652. Published Dec. 11, 1951. Class 46.

557,987. Cologne, Toilet Water, Perfume, Face Powder, and Lipstick. Germaine Monteil Parfums Co., New York, N. Y.
Filed Feb. 7, 1951, Serial No. 609,723. Published Jan. 15, 1952. Class 51.

557,988. Acid-Proof Resinous Cement, Either in Liquid or Powdered Form. Nukem Products Corporation, Buffalo, N. Y.
Filed Feb. 7, 1951, Serial No. 609,737. Published Jan. 15, 1952. Class 12.

557,989. Furniture—Namely, Chests, Dressers, Chests of Drawers, Beds, and Vanities. David M. Lea & Company, Incorporated, Richmond, Va.
Filed Feb. 9, 1951, Serial No. 609,867. Published Jan. 22, 1952. Class 32.

557,990. Fluorescent Lamp Starters. Industrial Starter Corporation, New York, N. Y.
Filed Feb. 10, 1951, Serial No. 609,926. Published Jan. 22, 1952. Class 21.

557,991. Combination Tooth-Brushes and Tongue Cleaners. United States Oralizer Corporation, New York, N. Y.
Filed Feb. 12, 1951, Serial No. 609,988. Published Jan. 15, 1952. Class 29.

557,992. Steel Plates. United States Steel Company, Pittsburgh, Pa.
Filed Feb. 16, 1951, Serial No. 610,197. Published Jan. 22, 1952. Class 14.

557,993. Blend of Coffee and Chicory. Trico, Inc., Birmingham, Ala.
Filed Feb. 19, 1951, Serial No. 610,301. Published Jan. 22, 1952. Class 46.

557,994. Fabricated Cushions Having Air-Circulation Space. Harley and Hunzicker, doing business under the name of Kool Kooshion Mfg. Co., Oklahoma City, Okla.
Original filed, act of 1946, Supplemental Register, Feb. 26, 1951; amended to application, Principal Register, Oct. 19, 1951, Serial No. 610,516. Published Jan. 29, 1952. Class 32.

557,995. Die-Castings. Product Engineering and Manufacturing Corporation, Bridgman, Mich.
Filed Mar. 1, 1951, Serial No. 610,714. Published Jan. 22, 1952. Class 14.

557,996. Plywood. Harbor Plywood Corporation, Aberdeen, Wash.
Filed Mar. 3, 1951, Serial No. 610,787. Published Jan. 15, 1952. Class 12.

557,997. Work Shirts. Sherrod Shirt Company, High Point, N. C.
Filed Mar. 6, 1951, Serial No. 610,928. Published Jan. 8, 1952. Class 39.

557,998. Centrifugal Pumps for Handling Water, Etc. Barnes Manufacturing Co., Mansfield, Ohio.
Filed Mar. 9, 1951, Serial No. 611,069. Published Nov. 20, 1951. Class 23.

557,999. Industrial Aprons and Sleeves. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 10, 1951, Serial No. 611,162. Published Jan. 15, 1952. Class 39.

558,000. Hand Mop With Cotton Material on the End Thereof; Wax Hand Mop With Lamb's Wool Attached to the End Thereof. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 10, 1951, Serial No. 611,164. Published Jan. 15, 1952. Class 29.

558,001. Powder Puffs. A. J. Siris Products Corp., New York, N. Y.
Filed Mar. 16, 1951, Serial No. 611,457. Published Jan. 15, 1952. Class 29.

558,002. Decorative Wallboarding. Wallace Manufacturing Company, North Kansas City, Mo.
Filed Mar. 16, 1951, Serial No. 611,463. Published Jan. 15, 1952. Class 12.

558,003. Extruded Two-Piece Aggregate Clay Tile. Oliver W. Ingle, Portland, Oreg.
Filed Mar. 19, 1951, Serial No. 611,522. Published Jan. 15, 1952. Class 12.

558,004. Canned Apple Sauce. Sebastopol Cooperative Cannery, Sebastopol, Calif.
Filed Mar. 19, 1951, Serial No. 611,545. Published Dec. 11, 1951. Class 46.

558,005. Frozen Fresh Vegetables, Frozen Fresh Strawberries, and Canned Corn and Peas. Pictsweet Foods, Inc., doing business under the trade style Good-Year Products Co., Mount Vernon, Wash.
Filed Mar. 20, 1951, Serial No. 611,581. Published Dec. 18, 1951. Class 46.

558,006. Farmer Cheese, Creamed Cottage Cheese, Sour Cream, Cream Cheese, Pasteurized Process Cheese. Santé Foods, Inc., New York, N. Y.
Filed Mar. 21, 1951, Serial No. 611,620. Published Jan. 22, 1952. Class 46.

558,007. Electrical Condensers. Cornell-Dubilier Electric Corporation, South Plainfield, N. J.
Filed Mar. 23, 1951, Serial No. 611,689. Published Feb. 5, 1952. Class 21.

558,008. Thermal Insulation Material, Etc. J. W. Roberts, Limited, Leeds, England.
Filed Mar. 23, 1951, Serial No. 611,723. Published Jan. 15, 1952. Class 12.

558,009. Cocoa Base Powder Used in Making Chocolate-Flavored Food Drink. John Calvin Core, Jr., Huntington, W. Va.
Filed Mar. 26, 1951, Serial No. 611,764. Published Feb. 5, 1952. Class 46.

558,010. Clear, Water Repellant Masonry Coating Composition. Con-Cor Paint Company, Kansas City, Mo.
Filed Mar. 29, 1951, Serial No. 611,941. Published Dec. 25, 1951. Class 16.

558,011. Wren Houses Made of Weatherproofed Cardboard. Chicago Cardboard Company, Chicago, Ill.
Filed Mar. 31, 1951, Serial No. 612,059. Published Dec. 25, 1951. Class 50.

558,012. Electrical Wires and Cables. The American Steel and Wire Company of New Jersey, Cleveland, Ohio, now by merger United States Steel Company, a corporation of New Jersey.
Filed Apr. 2, 1951, Serial No. 612,108. Published Feb. 5, 1952. Class 21.

558,013. Electrical Insulating Material—Namely, Mica, Micaceous Paper, and Micaceous Cardboard. Samica-Société des Applications du Mica, Paris, France.
Filed Apr. 3, 1951, Serial No. 612,181. Published Feb. 5, 1952. Class 21.

558,014. Ladies' Handbags. B. Altman & Co., New York, N. Y.
Filed Apr. 6, 1951, Serial No. 612,293. Published Jan. 15, 1952. Class 3.

558,015. Oil for Use in Electrical Apparatus—Namely, Transformer Oil. Moloney Electric Company, St. Louis, Mo.
Filed Apr. 9, 1951, Serial No. 612,409. Published Feb. 5, 1952. Class 21.

558,016. Phonograph Record Display Racks. Merchandising Displays, Inc., Colorado Springs, Colo.
Filed Apr. 10, 1951, Serial No. 612,460. Published Jan. 29, 1952. Class 32.

558,017. Electric Garbage Disposal Units. Silent Maid Co., Hollywood, Calif.
Filed Apr. 12, 1951, Serial No. 612,565. Published Feb. 5, 1952. Class 21.

558,018. Diving Boards. Samuel R. Smith, Portland, Oreg.
Filed Apr. 16, 1951, Serial No. 612,711. Published Jan. 29, 1952. Class 22.

558,019. Coffee. Florida Coffee Company, Miami, Fla.
Filed Apr. 17, 1951, Serial No. 612,735. Published Feb. 5, 1952. Class 46.

558,020. Metal Office Furniture—Namely, Desks, Tables, Cabinets, Typewriter Stands, Telephone Stands, Bookcases, Clothes Racks, and Chairs. Orna Metal Products Co., St. Louis, Mo.
Filed Apr. 18, 1951, Serial No. 612,820. Published Jan. 29, 1952. Class 32.

558,021. Liquid Make-Up Base. Germaine Monteil Cosmetiques Corporation, New York, N. Y.
Filed Apr. 20, 1951, Serial No. 612,905. Published Jan. 15, 1952. Class 51.

558,022. Lipstick. Dana Perfumes, Inc., Chicago, Ill., assignor to Les Parfums de Dana, Inc., New York, N. Y., a corporation of New York.
Filed Apr. 21, 1951, Serial No. 612,951. Published Jan. 22, 1952. Class 51.

558,023. Lipstick. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill.
Filed Apr. 21, 1951, Serial No. 612,952. Published Dec. 11, 1951. Class 51.

558,024. Lipstick. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill.
Filed Apr. 21, 1951, Serial No. 612,959. Published Dec. 11, 1951. Class 51.

558,025. Lipstick. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill.
Filed Apr. 21, 1951, Serial No. 612,961. Published Dec. 11, 1951. Class 51.

558,026. Lipstick. Dana Perfumes, Inc., Chicago, Ill., assignor to Norman J. Phelps, Palatine, Ill.
Filed Apr. 21, 1951, Serial No. 612,962. Published Dec. 11, 1951. Class 51.

558,027. Perfume, Toilet Water, and Talcum Powder. Parfumerie de Raymond, New York, N. Y.
Filed Apr. 23, 1951, Serial No. 613,020. Published Jan. 15, 1952. Class 51.

558,028. Mineral-Surfaced Asphalt Saturated Felt Shingles for Roofing and Siding. Globe Roofing Products Co., Inc., Whiting, Ind.
Filed Apr. 24, 1951, Serial No. 613,064. Published Dec. 25, 1951. Class 12.

558,029. Felts. The Felters Company, Boston, Mass.
Filed Apr. 25, 1951, Serial No. 613,124. Published Jan. 15, 1952. Class 50.

558,030. Cottonseed Hullers and Parts Thereof, Tow Mill Machinery and Parts Thereof, Attrition Mills and Parts Thereof, Saw Frames and Parts Thereof, and Hammer Mills and Parts Thereof. Diamond Huller Company, Inc., Winona, Minn.
Filed Apr. 25, 1951, Serial No. 613,130. Published Jan. 15, 1952. Class 23.

558,031. Preparations or Histological Reagents for Use in Preparing Histological Specimens for Microscopic Examination—Namely, Fixatives, Dehydrants, Clearing Agents, Tissue Stains, and Medium for Mounting Tissue Sections on Slides. The Technicon Company, New York, N. Y.
Filed Apr. 25, 1951, Serial No. 613,147. Published Jan. 29, 1952. Class 6.

558,032. Asphalt Shingles. United States Gypsum Company, Chicago, Ill.
Filed Apr. 25, 1951, Serial No. 613,148. Published Dec. 25, 1951. Class 12.

558,033. Mops. Parker Manufacturing Company, Warren, Ohio.
Filed Apr. 27, 1951, Serial No. 613,233. Published Jan. 22, 1952. Class 29.

558,034. Lubricating Oil and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,249. Published Dec. 18, 1951. Class 15.

558,035. Lubricating Oil. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,252. Published Dec. 18, 1951. Class 15.

558,036. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,253. Published Dec. 18, 1951. Class 15.

558,037. Lubricating Oils and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,259. Published Dec. 18, 1951. Class 15.

558,038. Lubricating Oil and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,264. Published Dec. 18, 1951. Class 15.

558,039. Perfume. The Andrew Jergens Company, Cincinnati, Ohio.
Filed May 2, 1951, Serial No. 613,406. Published Jan. 29, 1952. Class 51.

558,040. Dry Sausage. Armour and Company, Chicago, Ill.
Filed May 4, 1951, Serial No. 613,487. Published Jan. 22, 1952. Class 46.

558,041. Canned Tuna. California Tuna Canning Company, San Diego, Calif.
Filed May 4, 1951, Serial No. 613,499. Published Dec. 18, 1951. Class 46.

558,042. Men's Topcoats and Raincoats. Plymouth Manufacturing Company, Boston, Mass.
Filed May 4, 1951, Serial No. 613,524. Published Jan. 15, 1952. Class 39.

558,043. Electrically Operated Traveling Automobile Elevators. Pigeon Hole Parking, Inc., Spokane, Wash.
Filed May 7, 1951, Serial No. 613,605. Published Jan. 1, 1952. Class 21.

558,044. Fresh Vegetables—Namely, Asparagus, Kale, Onions, Etc. Atlantic Commission Company, Inc., New York, N. Y.
Filed May 8, 1951, Serial No. 613,624. Published Jan. 29, 1952. Class 46.

558,045. Oilcloth. Interchemical Corporation, New York, N. Y.
Filed May 8, 1951, Serial No. 613,642. Published Jan. 29, 1952. Class 20.

558,046. Electrically Heated Deep-Fat Fryer. National Pressure Cooker Company, Eau Claire, Wis.
Filed May 8, 1951, Serial No. 613,649. Published Jan. 1, 1952. Class 21.

558,047. Chromed Steel Tubular, Plastic-Coated Tubular, Plastic and Wooden Furniture—Namely, Kitchen and Dinette Tables, Chairs, and Sets; Juvenile Size Tables, Chairs, and Sets; Club, Lounge, and Barrel Back Chairs; Sectional Lounge Settees; Rollaway Tables; and Bar, Kitchen, and Household Stools. Daystrom, Incorporated, Elizabeth, N. J.
Filed May 11, 1951, Serial No. 613,769. Published Jan. 15, 1952. Class 32.

558,048. Glass Mirrors, for Use in the Hand, on the Wall, and in Connection With Furniture. The Nurre Companies, Inc., Bloomington, Ind.
Filed May 11, 1951, Serial No. 613,780. Published Jan. 15, 1952. Class 32.

558,049. Electrical Resistors. Sprague Electric Company, North Adams, Mass.
Filed May 11, 1951, Serial No. 613,791. Published Jan. 1, 1952. Class 21.

558,050. Algaecides for the Treatment of Water and Herbicides for Destroying Vegetable Growth. National Aluminate Corporation, Chicago, Ill.
Filed May 14, 1951, Serial No. 613,852. Published Jan. 29, 1952. Class 6.

558,051. Flash Lights. Hipwell Manufacturing Company, Pittsburgh, Pa.
Filed May 15, 1951, Serial No. 613,874. Published Jan. 8, 1952. Class 21.

558,052. Fire Alarm Telegraph Boxes for Interior and Exterior Use, Etc. B & B Engineering Corporation, Norwood, La.
Filed May 16, 1951, Serial No. 613,896. Published Jan. 22, 1952. Class 21.

558,053. Ladies' Handbags. Samuel R. Goldsmith & Son, Inc., New York, N. Y.
Filed May 16, 1951, Serial No. 613,912. Published Jan. 15, 1952. Class 3.

558,054. Women's Lingerie—Namely, Slips, Nightgowns, and Pajamas. David Lewis, Inc., St. Louis, Mo.
Filed May 16, 1951, Serial No. 613,925. Published Jan. 29, 1952. Class 39.

558,055. Pig and Hog Feed. Allied Mills, Inc., Chicago, Ill.
Filed May 17, 1951, Serial No. 613,959. Published Jan. 8, 1952. Class 46.

558,056. Cologne. Anatole Robbins, Inc., Los Angeles, Calif.
Filed May 18, 1951, Serial No. 614,033. Published Jan. 15, 1952. Class 51.

558,057. Tools—Namely, Adapters, Awls, Utility Bars, Etc. The Plomb Tool Company, Los Angeles, Calif.
Filed May 21, 1951, Serial No. 614,159. Published Jan. 15, 1952. Class 23.

558,058. Corsets, Girdles, Brassières, and Combinations of Brassières and Girdles. Poirette Corsets, Inc., New York, N. Y.
Filed May 21, 1951, Serial No. 614,161. Published Jan. 29, 1952. Class 39.

558,059. Corsets, Girdles, Brassières, and Combinations of Brassières and Girdles. Poirette Corsets, Inc., New York, N. Y.
Filed May 21, 1951, Serial No. 614,162. Published Jan. 29, 1952. Class 39.

558,060. Women's Hosiery. Francis-Louise Full Fashion Mills, Inc., Valdese, N. C.
Filed May 22, 1951, Serial No. 614,201. Published Feb. 5, 1952. Class 39.

558,061. Ice Cream. Consolidated Dairy Products Company, Inc., New York, N. Y.
Filed May 23, 1951, Serial No. 614,242. Published Jan. 22, 1952. Class 46.

558,062. Arc Light Carbons. Societe Anonyme: Le Carbone Lorraine, Paris, France.
Filed May 24, 1951, Serial No. 614,317. Published Dec. 18, 1951. Class 21.

558,063. Ladies' Handbags, Wallets, Travelling Cases, and Beach Bags. U. S. Handbag Corporation, New York, N. Y.
Filed May 24, 1951, Serial No. 614,322. Published Jan. 15, 1952. Class 3.

558,064. Office Equipment Made From Steel, Wood, or Combinations Thereof—Namely, Desks, Bookcases, Portable Files, Desk Files, Filing Cabinets, and Storage Cabinets. Koeppel Steel Products, Inc., Ossining, N. Y.
Filed May 25, 1951, Serial No. 614,350. Published Jan. 22, 1952. Class 32.

558,065. Ladies' Handbags, Wallets, Travelling Cases, and Beach Bags. U. S. Handbag Corporation, New York, N. Y.
Filed May 29, 1951, Serial No. 614,525. Published Jan. 15, 1952. Class 3.

558,066. Chemical Compound Used as a Softening, Lubricating, and Finishing Agent for Natural and Synthetic Fibers Including Textiles and Leather. E. I. du Pont de Nemours and Company, Wilmington, Del.
Filed May 31, 1951, Serial No. 614,545. Published Jan. 29, 1952. Class 6.

558,067. Men's Knitted Underwear. Munsingwear, Inc., Minneapolis, Minn.
Filed May 31, 1951, Serial No. 614,565. Published Feb. 5, 1952. Class 39.

558,068. Vulcanization Accelerators. Sharples Chemicals Inc., Philadelphia, Pa.
Filed May 31, 1951, Serial No. 614,575. Published Jan. 29, 1952. Class 6.

558,069. Vulcanization Accelerators. Sharples Chemicals Inc., Philadelphia, Pa.
Filed May 31, 1951, Serial No. 614,577. Published Jan. 29, 1952. Class 6.

558,070. Ladies' Handbags, Wallets, Travelling Cases, and Beach Bags. U. S. Handbag Corporation, New York, N. Y.
Filed May 31, 1951, Serial No. 614,580. Published Jan. 15, 1952. Class 3.

558,071. Vulcanization Accelerators. Sharples Chemicals Inc., Philadelphia, Pa.
Filed June 1, 1951, Serial No. 614,635. Published Jan. 29, 1952. Class 6.

558,072. Dolls of Human and Animal Form. Mary W. Peters, Boulder, Colo.
Filed June 4, 1951, Serial No. 614,714. Published Jan. 29, 1952. Class 22.

558,073. Chemical Substances, Compounds, and Compositions Used in the Dyeing and Finishing of Textile Fabrics and Other Textile Materials. General Dyestuff Corporation, New York, N. Y.
Filed June 5, 1951, Serial No. 614,768. Published Jan. 29, 1952. Class 6.

558,074. Salad Dressing. Sue Ann Food Products Corporation, Chicago, Ill.
Filed June 7, 1951, Serial No. 614,910. Published Jan. 22, 1952. Class 46.

558,075. Metal Hardening Compositions. All-Sil Welding Metals, Inc., New York, N. Y.
Filed June 8, 1951, Serial No. 614,920. Published Jan. 29, 1952. Class 6.

558,076. Anti-Spattering Compositions for Welding. All-Sil Welding Metals, Inc., New York, N. Y.
Filed June 8, 1951, Serial No. 614,921. Published Jan. 29, 1952. Class 6.

558,077. Salt. General Foods Corporation, New York, N. Y.
Filed June 12, 1951, Serial No. 615,061. Published Jan. 22, 1952. Class 46.

558,078. Chemical Preparation for Finishing Hosiery. W. F. Fancourt Co., Philadelphia, Pa.
Filed June 14, 1951, Serial No. 615,170. Published Jan. 29, 1952. Class 6.

558,079. Enriched Wheat Flour, Wholewheat Flour, Etc. Voigt Milling Company, Grand Rapids, Mich.
Filed June 22, 1951, Serial No. 615,587. Published Jan. 15, 1952. Class 46.

558,080. Fresh Watermelons. Allen Ranches, Incorporated, Phoenix, Ariz.
Filed June 23, 1951, Serial No. 615,598. Published Jan. 22, 1952. Class 46.

558,081. Gloves Partially Coated With a Plastic Material. Dickson Safety Products Co., Los Angeles, Calif.
Filed June 27, 1951, Serial No. 615,765. Published Jan. 29, 1952. Class 39.

558,082. Condensed Milk Substitute for Infant Domesticated Animals, Particularly Piglets. Chas. Pfizer & Co., Inc., Brooklyn, N. Y.
Filed July 5, 1951, Serial No. 616,124. Published Jan. 22, 1952. Class 46.

558,083. Electronic Generators of Electrical Impulses. Ateliers de Constructions Electriques de Charlerol, Brussels and Charlerol, Belgium.
Filed July 12, 1951, Serial No. 616,356. Published Jan. 29, 1952. Class 21.

558,084. Maple Smoked Turkeys. Walter Jacobs, doing business as Farmer Tarleton, Pike, N. H.
Filed June 19, 1951, Serial No. 616,468. Published Jan. 22, 1952. Class 46.

558,085. Frozen Green Peas. Ayres and Roberts, doing business under the fictitious name and style of Quality Frozen Co., San Francisco, Calif.
Filed July 16, 1951, Serial No. 616,538. Published Feb. 5, 1952. Class 46.

558,086. Potato Chips. Spud Chips Inc., Greeley, Colo.
Filed July 24, 1951, Serial No. 616,878. Published Jan. 22, 1952. Class 46.

558,087. Paper Bags. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed July 26, 1951, Serial No. 616,976. Published Feb. 5, 1952. Class 2.

558,088. Paper Bags. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed July 26, 1951, Serial No. 616,982. Published Feb. 5, 1952. Class 2.

558,089. Paper Bags. Southern Advance Bag & Paper Co. Inc., Bangor, Maine, and Boston, Mass.
Filed July 26, 1951, Serial No. 616,985. Published Feb. 5, 1952. Class 2.

558,090. Candy. Georges-George De Met & Bros., Inc., Chicago, Ill.
Filed Aug. 7, 1951, Serial No. 617,397. Published Feb. 5, 1952. Class 46.

558,091. Balkan Salad Dressing. The Rendezvous Restaurant, Monroe, La.
Filed Aug. 9, 1951, Serial No. 617,511. Published Feb. 5, 1952. Class 46.

558,092. Paint in Paste or Semi-Paste Form, Varnish, Lacquer, and Coloring Material for Paint in Powdered Form. Seidlitz Paint & Varnish Company, Kansas City, Mo.
Filed Aug. 22, 1951, Serial No. 617,971. Published Nov. 20, 1951. Class 16.

558,093. Toys Made of Plastic—Namely, Figurines. Tee-Vee Toys, Inc., Cambridge, Mass.
Filed Aug. 24, 1951, Serial No. 618,064. Published Jan. 29, 1952. Class 22.

558,094. Washing Machines, and Parts Thereof for Replacement and Repair. Borg-Warner Corporation, Chicago, Ill.
Filed Sept. 11, 1951, Serial No. 618,619. Published Jan. 29, 1952. Class 24.

558,095. Artificial Fishing Lures. Le Roy E. Townsend, doing business under the fictitious name The Ropher Tackle Company, West Los Angeles, Calif.
Filed Sept. 11, 1951, Serial No. 618,661. Published Jan. 29, 1952. Class 22.

558,096. Canned Crab and Lobster. Haas, Baruch & Co., Los Angeles, Calif.
Filed Sept. 20, 1951, Serial No. 619,017. Published Nov. 27, 1951. Class 46.

558,097. Sleeping Bags for Outdoor Use. Interstate Bedding Company, Chicago, Ill.
Filed Nov. 20, 1951, Serial No. 621,247. Published Jan. 22, 1952. Class 22.

Service Marks

558,098. Producing for Radio Broadcasting Stations a Series of Radio Programs Dealing With Some Subject of Community Interest as Fire Prevention or Safety; and Soliciting Sponsors for Such Programs. Peter H. Sause, doing business under the firm names and styles of The Radio Advertiser's Guild and Peter H. Sause Enterprises, New York, N. Y.
Filed July 5, 1947, Serial No. 526,517. Published Jan. 29, 1952. Class 101.

558,099. Radio Program Broadcasting Services. Columbia Broadcasting System, Inc., New York, N. Y.
Filed Dec. 26, 1947, Serial No. 545,447. Published Jan. 29, 1952. Class 104.

558,100. Radio Program Broadcasting Services. Columbia Broadcasting System, Inc., New York, N. Y.
Filed Dec. 26, 1947, Serial No. 545,449. Published Jan. 29, 1952. Class 104.

558,101. Radio Program Broadcasting Services. Columbia Broadcasting System, Inc., New York, N. Y.
Filed Dec. 26, 1947, Serial No. 545,450. Published Jan. 29, 1952. Class 104.

558,102. Radio Program Broadcasting Services. Columbia Broadcasting System, Inc., New York, N. Y.
Filed Dec. 26, 1947, Serial No. 545,452. Published Jan. 29, 1952. Class 104.

558,103. Directional Drilling, Core Orienting, and Oil Well Surveys—Namely, Oil Well Temperature Surveys, Surface Controlled Magnetic Well Surveys, Water Entry Surveys, and Surveys To Ascertain Inclination of and Direction of Inclination of Well Bores. Eastman Oil Well Survey Company, Denver, Colo.
Filed Mar. 22, 1948, Serial No. 552,644. Published Jan. 29, 1952. Class 103.

558,104. Entertainment Service in the Nature of Wrestling Exhibitions. George R. Wagner, Creswell, Oreg.
Filed May 7, 1948, Serial No. 556,499. Published Jan. 29, 1952. Class 107.

558,105. Informational Services to Its Subscribing Publicly Owned Electric Utilities on Technical, Accounting, Financial, Purchasing, Advertising, Public Relations Matters, and Other General Matters Relating to Public Utilities. The Northwest Public Power Association, Vancouver, Wash.
Filed June 7, 1949, Serial No. 580,090. Published Jan. 29, 1952. Class 100.

558,106. Services Rendered on a Contract Basis to Airports and Food Growers—Namely, Dispersing Fog and Eliminating Poor Visibility at Airports; and Preventing Damage to Crops by Cooling the Air During Hot Weather. Hygrotrol Corporation, San Jose, Calif.
Filed June 13, 1949, Serial No. 580,366. Published Jan. 29, 1952. Class 100.

558,107. Services Rendered on a Contract Basis to Airports and Food Growers—Namely, Dispersing Fog and Eliminating Poor Visibility at Airports; and Preventing Damage to Crops by Cooling the Air During Hot Weather. Hygrotrol Corporation, San Jose, Calif.
Filed June 13, 1949, Serial No. 580,367. Published Jan. 29, 1952. Class 100.

558,108. Applying a Plastic Base Covering to Both New and Used Mechanical Devices, Etc. Tube-Kote, Inc., Houston, Tex.
Filed July 18, 1949, Serial No. 582,151. Published Jan. 29, 1952. Class 106.

558,109. Producing Ceramic, Porcelain, and Refractory Articles to Customer's Specifications. George Aderhold, doing business as The Saxonburg Potteries, Saxonburg, Pa.
Filed Sept. 19, 1949, Serial No. 585,006. Published Jan. 29, 1952. Class 106.

558,110. Instructing in the Playing of Musical Brass Instruments. Donald S. Reinhardt, New York, N. Y.
Filed Sept. 30, 1949, Serial No. 585,604. Published Jan. 29, 1952. Class 107.

558,111. Dyeing, Shrinking and Waterproofing of Textile Materials. Duro Finishing Corporation, Fall River, Mass.
Filed Oct. 12, 1949, Serial No. 586,150. Published July 3, 1951. Class 106.

558,112. Sponging, Shrinking, Fire-Retarding, and Decating Woolen Materials. Liberty Shrinkers Corp., New York, N. Y.
Filed Nov. 4, 1949, Serial No. 587,337. Published Sept. 18, 1951. Class 106.

558,113. Entertainment Service in the Nature of a Television Broadcast Program of Western Stories. Balaban and Katz Corporation, Chicago, Ill.
Filed Jan. 28, 1950, Serial No. 591,606. Published Jan. 29, 1952. Class 107.

558,114. Advertising Service Consisting in the Distribution of Packages, Etc. Allen Advertising Agency, Inc., Chicago, Ill.
Filed Mar. 17, 1951, Serial No. 611,465. Published Jan. 1, 1952. Class 101.

558,115. Advertising Service Consisting in the Distribution of Packages Containing Products and Premiums in Association With Advertising Literature and Information to Groups of Individuals, Firms, and Corporations Selected by It and Its Clients. Allen Advertising Agency, Inc., Chicago, Ill.
Filed Mar. 17, 1951, Serial No. 611,466. Published Jan. 1, 1952. Class 101.

558,116. Entertainment Service—Namely, the Presentation of Science-Fiction Playlets Through the Medium of Television Broadcast Programs. Rockhill Radio, New York, N. Y.
Filed Mar. 23, 1951, Serial No. 611,724. Published Jan. 29, 1952. Class 107.

Collective Mark

558,117. Expanded Vermiculite Products Consisting of Insulation Fill, Concrete Aggregate, and Plaster Aggregate. Vermiculite Institute, Evanston, Ill.
Filed May 4, 1949, Serial No. 578,239. Published Jan. 15, 1952. Class 12.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

558,118. (Class 46. Foods and Ingredients of Foods.) Blue Lake Producers Cooperative, Salem and West Salem, Oreg. Original filed, act of 1905, Mar. 29, 1946; amended to application under act of 1946, Principal Register, June 8, 1948; amended to Supplemental Register, June 20, 1949, Serial No. 499,199.

Oregon's Finest

For Canned and Frozen Fresh Vegetables.
Claims use since Oct. 5, 1941.

558,119. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) New Process Company, Warren, Pa. Original filed, act of 1905, Nov. 13, 1946; amended to application under act of 1946, Supplemental Register, June 1, 1948, Serial No. 512,524.

LONG WEAR

Applicant claims ownership of Registrations Nos. 178,038, 213,178, and others.
For Cutlery—Namely, Paring Knives, Butcher Knives, Boning Knives, Slicing Knives, Spatulas, and Cooking Forks.
Claims use since Nov. 1, 1946.

558,120. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) S. Stein & Co., Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 13, 1947; amended to application, Supplemental Register, July 11, 1951, Serial No. 541,047.

WELLINGTON

Applicant claims ownership of Registration No. 205,994.
For Woolen Fabrics in the Piece and in Cut Lengths.
Claims use since Oct. 1, 1924.

558,121. (Class 22. Games, Toys, and Sporting Goods.) South Bend Bait Company, South Bend, Ind. Original filed, act of 1946, Principal Register, Dec. 31, 1947; amended to application, Supplemental Register, Nov. 9, 1951, Serial No. 545,906.

SOUTH BEND
A Name Famous in Fishing

Applicant claims ownership of Registration No. 277,557.
For Fishing Rods, Fishing Reels, Fishing Lines and Artificial Fish Baits and Lures.
Claims use since March 1941.

558,122. (Class 16. Protective and Decorative Coatings.) George B. Hunt, doing business as The Milwaukee Dustless Brush Company, Milwaukee, Wis. Original filed, act of 1946, Principal Register, Feb. 13, 1948; amended to application, Supplemental Register, Sept. 7, 1950, Serial No. 549,639.

SPEED SHEEN

For Protective Coating Floor Wax, a Lacquer-Like Penetrating Floor Seal and Floor Finish.
Claims use since July 1, 1947.

558,123. (Class 39. Clothing.) Blousemodes, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 29, 1948; amended to application, Supplemental Register, Feb. 3, 1950, Serial No. 560,379.

"Forties"

For Blouses Intended for Wear by Misses.
Claims use since May 5, 1948.

558,124. (Class 46. Foods and Ingredients of Foods.) Wise Potato Chip Co., Berwick, Pa. Original filed, act of 1946, Principal Register, Dec. 2, 1948; amended to application, Supplemental Register, July 27, 1951, Serial No. 569,787.

The food that PEPS UP Meals

The drawing is lined for shading only.
For Potato Chips.
Claims use since June 15, 1939.

558,125. (Class 24. Laundry Appliances and Machines.) Automatic Washer Company, Newton, Iowa. Original filed, act of 1946, Principal Register, May 3, 1949; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 578,131.

PRESS TOE

The drawing is lined for blue.
For Domestic Laundry Equipment—Namely, Washing Machines.
Claims use since Jan. 15, 1948.

558,126. (Class 39. Clothing.) Irving Singer, New York, N. Y. Original filed, act of 1946, Principal Register, June 15, 1949; amended to application, Supplemental Register, Dec. 29, 1951, Serial No. 580,520.

Mc RAE Fifth Avenue

For Men's Hats.
Claims use since May 16, 1949.

558,127. (Class 46. Foods and Ingredients of Foods.) John G. Barrow, Jr., doing business as The Old Oaken Bucket, New Smyrna Beach, Fla. Original filed, act of 1946, Principal Register, Aug. 1, 1949; amended to application, Supplemental Register, Sept. 7, 1951, Serial No. 582,765.

HONEST --TO-- GOODNESS

For Bottled Citrus Fruit Juices and Honey.
Claims use since Nov. 1, 1947.

558,128. (Class 46. Foods and Ingredients of Foods.) Gold-N-Glaze Flour Company, St. Joseph, Mo. Original filed, act of 1946, Principal Register, Aug. 24, 1949; amended to application, Supplemental Register, Oct. 5, 1950, Serial No. 583,925.



Gold-N-Glaze Donut Flour

For Doughnut Flour.
Claims use since Jan. 22, 1948.

558,129. (Class 2. Receptacles.) Shellmar Products Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 16, 1949; amended to application, Supplemental Register, Feb. 5, 1952, Serial No. 584,927.

SNAP-SACKS

For Bags Having Elastic Closures.
Claims use since Aug. 6, 1949.

558,130. (Class 26. Measuring and Scientific Appliances.) The Frederick Post Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 29, 1949; amended to application, Supplemental Register, Nov. 27, 1951, Serial No. 585,523.

THE ENGINEER

For Encased Set of Instruments for Mechanical Drawing—Namely, Dividers, Pen and Pencil Compasses and Ruling Pens.
Claims use since July 22, 1949.

558,131. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) The Heil Co., Milwaukee, Wis. Original filed, act of 1946, Principal Register, Oct. 1, 1949; amended to application, Supplemental Register, Nov. 27, 1950, Serial No. 585,642.

HYDRO STEER

For Dirt Moving and/or Carrying Tractor Powered Vehicles in the Nature of Scrapers, Bulldozers and the Like.
Claims use since January 1940.

558,132. (Class 37. Paper and Stationery.) Erving Paper Mills, Erving, Mass. Original filed, act of 1946, Principal Register, Oct. 17, 1949; amended to application, Supplemental Register, Nov. 29, 1951, Serial No. 586,405.

SERVETTES

Applicant claims ownership of Registration No. 345,033.
For Table Napkins Manufactured of Paper or Cellulose Sheeting.
Claims use since May 1948.

558,133. (Class 46. Foods and Ingredients of Foods.) Fine Foods, Inc., Seattle, Wash. Original filed, act of 1946, Principal Register, Oct. 17, 1949; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 586,406.



For Canned Peas.
Claims use since Sept. 26, 1949.

558,134. (Class 42. Knitted, Netted, and Textile Fabrics, and Substitutes Therefor.) Naumkeag Steam Cotton Company, Salem, Mass. Original filed, act of 1946, Principal Register, Oct. 18, 1949; amended to application, Supplemental Register, Sept. 6, 1951, Serial No. 586,493.

PLUS-SERVICE

For Sheeting, Sheets and Pillow Cases.
Claims use since January 1943.

558,135. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Collord, Incorporated, Detroit, Mich. Original filed, act of 1946, Principal Register, Jan. 5, 1950; amended to application, Supplemental Register, May 31, 1950, Serial No. 590,353.

THE Rubberclad LINE

For Rubber Coated Metal Clips for Wiring and Tubing, Plating Racks and Grommets.
Claims use since May 13, 1947.

558,136. (Class 36. Musical Instruments and Supplies.) Norman Granz, New York, N. Y. Original filed, act of 1946, Principal Register, Mar. 13, 1950; amended to application, Supplemental Register, Sept. 12, 1951, Serial No. 593,867.



JAZZ AT THE PHILHARMONIC

The drawing is lined for red.
For Grooved Phonograph Records and Albums for Phonograph Records.
Claims use since Aug. 15, 1945.

558,137. (Class 46. Foods and Ingredients of Foods.) George Oscar, doing business under the assumed name of Hood Sales Co., Portland, Oreg. Original filed, act of 1946, Principal Register, May 8, 1950; amended to application, Supplemental Register, Feb. 15, 1952, Serial No. 597,092.

Corn n' Taters

For Puffed Appetizer Made From Corn and Potato Flour.
Claims use since Nov. 23, 1949.

558,138. (Class 46. Foods and Ingredients of Foods.) The Great Western Mushroom Company, Denver, Colo. Original filed, act of 1946, Principal Register, May 18, 1950; amended to application, Supplemental Register, Aug. 15, 1951, Serial No. 597,681.

Savery Savory

Applicant claims ownership of Registrations Nos. 291,548 and 292,853.
For Prepared Mushroom Sauce.
Claims use since June 28, 1949.

558,139. (Class 39. Clothing.) Samuel E. Schlein, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, June 9, 1950; amended to application, Supplemental Register, Aug. 28, 1951, Serial No. 598,868.

WESTBROOKE Clothes

For Men's and Boys' Outer Wearing Apparel—Namely, Suits, Topcoats, Overcoats, Sport Jackets and Slacks.
Claims use since May 9, 1950.

558,140. (Class 12. Construction Materials.) Brixite Manufacturing Company, Inc., South Kearny, N. J. Original filed, act of 1946, Principal Register, July 27, 1950; amended to application, Supplemental Register, Oct. 23, 1951, Serial No. 601,300.

kolor MORTAR

For Multicolored Insulated Sidings.
Claims use since May 18, 1950.

558,141. (Class 18. Medicines and Pharmaceutical Preparations.) August G. Graser, Waco, Tex. Original filed, act of 1946, Principal Register, July 31, 1950; amended to application, Supplemental Register, Aug. 2, 1951, Serial No. 601,498.

AG. GRASER

For Liniment for External Application for the Treatment of Rheumatism and Other Body Pains.
Claims use since Aug. 19, 1940.

558,142. (Class 46. Foods and Ingredients of Foods.) B. Dorman & Sons, Inc., Brooklyn, N. Y. Filed Aug. 25, 1950, Serial No. 602,752.

BELLA

Applicant claims ownership of Registration No. 270,965.
For Canned Foods—Namely, Tuna, Pimientos, Tomatoes, Tomatoes With Puree, Pears, Fruits for Salad, Sliced Pineapple, Olives, Sweet Peas and Sardines.
Claims use since 1925.

558,143. (Class 12. Construction Materials.) Ranchaven Industries, Inc., Glenwood Springs, Colo. Original filed, act of 1946, Principal Register, Sept. 18, 1950; amended to application, Supplemental Register, Oct. 10, 1951, Serial No. 603,699.

RANCHAVEN

For Logs To Be Used for Building Cabins, Houses and Other Buildings.
Claims use since March 1949.

558,144. (Class 31. Filters and Refrigerators.) Cory Corporation, Chicago, Ill. Original filed, act of 1946, Principal Register, Sept. 30, 1950; amended to application, Supplemental Register, Aug. 18, 1951, Serial No. 604,255.

CLEAR FLO

Applicant claims ownership of Registration No. 432,297.
For Filter Units for Coffee Makers.
Claims use since July 25, 1945.

558,145. (Class 12. Construction Materials.) Macklanburg-Duncan Company, Oklahoma City, Okla. Original filed, act of 1946, Principal Register, Oct. 23, 1950; amended to application, Supplemental Register, May 28, 1951, Serial No. 605,315.

Nu Calk

For Caulking Compound and Glazing Compound.
Claims use since May 28, 1935.

558,146. (Class 12. Construction Materials.) Macklanburg-Duncan Company, Oklahoma City, Okla. Original filed, act of 1946, Principal Register, Oct. 23, 1950; amended to application, Supplemental Register, June 2, 1951, Serial No. 605,316.

Nu-Glaze

For Glazing Compound and Putties.
Claims use since Nov. 1, 1935.

558,147. (Class 12. Construction Materials.) Macklanburg-Duncan Company, Oklahoma City, Okla. Original filed, act of 1946, Principal Register, Oct. 23, 1950; amended to application, Supplemental Register, June 4, 1951, Serial No. 605,317.

Nu-Koil

For Metal Weather Stripping.
Claims use since Jan. 1, 1930.

558,148. (Class 2. Receptacles.) Harry W. Ellswood, doing business under the name of Ellswood's, Pueblo, Colo. Original filed, act of 1946, Principal Register, Oct. 27, 1950; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 605,474.

"SALT 'N PEP"

For Card-Board Salt and Pepper Shakers.
Claims use since May 1, 1950.

558,149. (Class 21. Electrical Apparatus, Machines, and Supplies.) D. W. Onan & Sons Inc., Minneapolis, Minn. Original filed, act of 1946, Principal Register, Nov. 1, 1950; amended to application, Supplemental Register, Nov. 13, 1951, Serial No. 605,757.

Onan

For Gasoline-Driven and Diesel-Driven Electric Generating Plants, and Separate Electric Generators.
Claims use since July 1946.

558,150. (Class 39. Clothing.) Utilitex Company, New York, N. Y. Original filed, act of 1946, Principal Register, Nov. 4, 1950; amended to application, Supplemental Register, Nov. 19, 1951, Serial No. 605,931.

Poncho-PAC

For Ponchos and Separate Hoods Contained in a Pouch.
Claims use since Sept. 25, 1950.

558,151. (Class 13. Hardware and Plumbing and Steam-Fitting Supplies.) Platt Products Corporation, Lansing, Mich. Original filed, act of 1946, Principal Register, Nov. 6, 1950; amended to application, Supplemental Register, Oct. 16, 1951, Serial No. 605,969.

Platt

For Constant Level Oil Control Valve for Oil Fired Heater.
Claims use since Oct. 12, 1950.

558,152. (Class 39. Clothing.) Bryan Full Fashioned Mills, Chattanooga, Tenn. Original filed, act of 1946, Principal Register, Nov. 7, 1950; amended to application, Supplemental Register, Nov. 24, 1951, Serial No. 605,990.

HEATHER HEEL

For Hosiery for Women.
Claims use since Nov. 1, 1950.

558,153. (Class 46. Foods and Ingredients of Foods.) Girard's, Inc., San Rafael, Calif. Original filed, act of 1946, Principal Register, Nov. 14, 1950; amended to application, Supplemental Register, Feb. 12, 1952, Serial No. 606,377.

GIRARD'S

Applicant claims ownership of Registrations Nos. 364,654 and 512,960.
For French Dressing.
Claims use since Oct. 13, 1950.

558,154. (Class 40. Fancy Goods, Furnishings, and Notions.) Automatic Button Company, Muscatine, Iowa. Original filed, act of 1946, Principal Register, Nov. 29, 1950; amended to application, Supplemental Register, Dec. 5, 1951, Serial No. 607,065.

TOGSTUDS

For Plastic Buttons and Cuff Links.
Claims use since May 22, 1950.

558,155. (Class 21. Electrical Apparatus, Machines, and Supplies.) Cleveland Lathe & Machine Co., Cleveland, Ohio. Original filed, act of 1946, Principal Register, Dec. 1, 1950; amended to application, Supplemental Register, Sept. 27, 1951, Serial No. 607,165.

ROL-A-SEAL

For Manually Operated Electrically Heated for Sealing Heat Sensitive Materials.
Claims use since Aug. 30, 1950.

558,156. (Class 38. Prints and Publications.) General Features Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 1, 1950; amended to application, Supplemental Register, Jan. 22, 1952, Serial No. 607,170.

SPORTSMAN'S DIGEST

For Newspaper Feature Column.
Claims use since Nov. 13, 1950.

558,157. (Class 46. Foods and Ingredients of Foods.) Matthew Hatchadourian, doing business as Allied American Export Co., New York, N. Y. Original filed, act of 1946, Principal Register, Dec. 9, 1950; amended to application, Supplemental Register, Jan. 8, 1952, Serial No. 607,499.

ARARAT

For Vine Leaves Stuffed With Rice, Onions, Pure Olive Oil, Dill, Salt and Spices.
Claims use since Aug. 23, 1950.

558,158. (Class 46. Foods and Ingredients of Foods.) Pan-Redi Shrimp Co., Thunderbolt, Ga. Filed Dec. 18, 1950, Serial No. 607,825.

PAN-REDI

For Frozen Shrimp.
Claims use since May 1, 1949.

558,159. (Class 39. Clothing.) Style Undies, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 5, 1951; amended to application, Supplemental Register, Jan. 29, 1952, Serial No. 608,438.

Tiny Tall

For Slips for Little Girls.
Claims use since July 21, 1950.

558,160. (Class 37. Paper and Stationery.) International Products Company, New Haven, Conn. Original filed, act of 1946, Principal Register, Jan. 13, 1951; amended to application, Supplemental Register, Feb. 5, 1952, Serial No. 608,760.

WYPE-OFF

For Crayons and Plastic Writing Slate Boards Associated Therewith.
Claims use since Apr. 15, 1950.

558,161. (Class 39. Clothing.) The La Resista Corset Company, Bridgeport, Conn. Original filed, act of 1946, Principal Register, Feb. 2, 1951; amended to application, Supplemental Register, Jan. 31, 1952, Serial No. 609,557.

L'Egyptienne

For Ladies' Corsets, Corselets, Girdles, Panty Girdles, Combination Foundation Undergarments and Brassières.
Claims use since Jan. 19, 1951.

558,162. (Class 39. Clothing.) Max Levine, doing business under the name Max Levine & Co., New York, N. Y. Original filed, act of 1946, Principal Register, Feb. 14, 1951; amended to application, Supplemental Register, Jan. 29, 1952, Serial No. 610,082.

Pac-a-way

For Women's and Misses' Dresses.
Claims use since April 1950.

558,163. (Class 39. Clothing.) Moyer Manufacturing Company, Youngstown, Ohio. Original filed, act of 1946, Principal Register, Feb. 14, 1951; amended to application, Supplemental Register, Jan. 18, 1952, Serial No. 610,088.



The drawing is lined for blue.
For Men's and Boys' Slacks and Outer Shirts.
Claims use since Sept. 29, 1950.

558,164. (Class 4. Abrasives and Polishing Materials.) The Kiwi Polish Company Proprietary Limited, Richmond, Near Melbourne, Victoria, Australia, and Philadelphia, Pa. Original filed, act of 1946, Principal Register, Feb. 16, 1951; amended to application, Supplemental Register, Nov. 2, 1951, Serial No. 610,178.



The drawing is lined for red. Applicant claims ownership of Registrations Nos. 294,323 and 294,324.
For Shoe Shine Kit, Consisting of Polish, Dauber, Buffer, Brush, and Polishing Cloth.
Claims use since Sept. 8, 1949.

558,165. (Class 39. Clothing.) Catawba Sales Agency, Inc., Hickory, N. C. Original filed, act of 1946, Principal Register, Mar. 26, 1951; amended to application, Supplemental Register, Dec. 11, 1951, Serial No. 611,757.

WEARBEST

For Men's, Boys', Children's, and Misses' Hosiery.
Claims use since Nov. 30, 1950.

558,166. (Class 39. Clothing.) Wilson Brothers, Chicago, Ill. Filed Mar. 29, 1951, Serial No. 611,989.

BLEND SUIT

For Men's Underwear of Textile Fabric.
Claims use since Mar. 6, 1929.

558,167. (Class 21. Electrical Apparatus, Machines, and Supplies.) Mandel Brothers, Inc., Chicago, Ill. Filed Apr. 11, 1951, Serial No. 612,503.

Manchester

For Television Receivers.
Claims use since Feb. 6, 1950.

558,168. (Class 46. Foods and Ingredients of Foods.) Service Feed Company, Kansas City, Mo. Original filed, act of 1946, Principal Register, Apr. 12, 1951; amended to application, Supplemental Register, Jan. 28, 1952, Serial No. 612,563.

RICHMIX

For Livestock and Poultry Feeds.
Claims use since Jan. 15, 1951.

558,169. (Class 31. Filters and Refrigerators.) Foster Refrigerator Corporation, Hudson, N. Y. Original filed, act of 1946, Principal Register, Apr. 27, 1951; amended to application, Supplemental Register, Dec. 20, 1951, Serial No. 613,221.

FOSTER

For Domestic and Commercial Refrigerators and Freezers.
Claims use since Jan. 1, 1947.

558,170. (Class 46. Foods and Ingredients of Foods.) Graham Sea Food Co., Coden and Bayou La Batre, Ala. Original filed, act of 1946, Principal Register, May 8, 1951; amended to application, Supplemental Register, Jan. 14, 1952, Serial No. 613,634.

MOBILE BAY BRAND

For Canned Seafood—Namely, Shrimp and Oysters.
Claims use since Feb. 2, 1950.

558,171. (Class 39. Clothing.) Supreme Dress Co., Milwaukee, Wis. Original filed, act of 1946, Principal Register, May 21, 1951; amended to application, Supplemental Register, Feb. 14, 1952, Serial No. 614,173.

Smockette

For Ladies' Dresses and Aprons.
Claims use since Nov. 15, 1950.

558,172. (Class 46. Foods and Ingredients of Foods.) Hawaiian Pineapple Company, Limited, doing business as Dole Sales Company and Barron-Gray Packing Company, Honolulu, Territory of Hawaii, and San Francisco and San Jose, Calif. Filed July 20, 1951, Serial No. 616,705.



The drawing is lined for light blue and dark blue. The mark consists of a light blue and dark blue label encircling the can with the word "Dole" appearing on each side of the can. Applicant claims ownership of Registrations Nos. 85,113, 264,021, and others.
For Canned Fruits, Canned Fruit Cocktail, and Canned Fruit Juices.
Claims use since June 2, 1938.

558,173. (Class 21. Electrical Apparatus, Machines, and Supplies.) United Manufacturing and Service Co., Milwaukee, Wis. Filed Sept. 27, 1951, Serial No. 619,318.

TWIN-BLOK

For Junction Blocks Which Become Part of Prefabricated Electrical Wiring Harnesses and Systems.
Claims use since Aug. 17, 1950.

558,174. (Class 46. Foods and Ingredients of Foods.) D. B. Berelson & Co., San Francisco, Calif. Original filed, act of 1946, Principal Register, Oct. 2, 1951; amended to application, Supplemental Register, Feb. 11, 1952, Serial No. 619,496.

TROPIC SEA

Applicant claims ownership of Registration No. 547,668.
For Canned Fish and Frozen Fresh Fish.
Claims use since June 10, 1950.

558,175. (Class 46. Foods and Ingredients of Foods.) Flour Mills of America, Inc., doing business under the name and style of The Kansas Flour Mills Company, Kansas City, Mo. Filed Dec. 6, 1951, Serial No. 622,154.

SWEET BAKE

For Wheat Flour.
Claims use since January 1941.

Service Marks

558,176. (Class 104. Communication.) United Broadcasting Company, Cleveland and Akron, Ohio. Original filed, act of 1946, Principal Register, June 11, 1948; amended to application, Supplemental Register, Apr. 25, 1951, Serial No. 561,173.

(No Drawing)

THE MARK COMPRISES THE SPOKEN WORDS "THIS IS RADIO AKRON"

For Radio Program Broadcasting Services.
Claims use since May 6, 1948.

558,177. (Class 105. Transportation and Storage.) Stevenson Line, Inc., New York, N. Y. Original filed, act of 1946, Principal Register, May 17, 1950; amended to application, Supplemental Register, Feb. 7, 1952, Serial No. 597,635.

U.S. EUROPE MERCHANT LINE

For Berth Services—Namely, Arranging for the Transportation of Freight Cargoes by Steamship, Obtaining Cargoes, Handling Loading of Vessels, Arranging for Discharge of Cargoes, and for Berthing Vessels in Ports, on a Commission Basis.
Claims use since February 1950.

TRADE-MARK REGISTRATIONS RENEWED

37,350. REPRESENTATION OF NOTTINGHAM CASTLE, ETC. Registered Nov. 26, 1901. John Player & Sons, Limited, Nottingham, Eng'and. Re-renewed Nov. 26, 1951, to The Imperial Tobacco Company (of Great Britain and Ireland), Limited, Bedminister, Bristol, England, a corporation organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Smoking-Tobacco, Chewing-Tobacco, Cigars, Cheroots, Cigarettes, and Snuff. Class 17.

84,849. MINARET. Registered Jan. 9, 1912. National Biscuit Company, Jersey City, N. J., and New York, N. Y. Re-renewed Jan. 9, 1952, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Biscuit. Class 46.

85,186. REPRESENTATION OF SHREDDED-WHEAT BISCUIT, ETC. Registered Jan. 30, 1912. The Shredded Wheat Company, Niagara Falls, N. Y. Re-renewed Jan. 30, 1952, to National Biscuit Company, New York, N. Y., a corporation of New Jersey. Cereal Biscuit. Class 46.

85,423. KODAK. Registered Feb. 20, 1912. Eastman Kodak Co. Re-renewed Feb. 20, 1952, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Photographic Cameras, Photographic Lenses, Photographic Portrait Attachments, Etc. Class 26.

86,304. KATAHDIN. Registered Apr. 30, 1912. Katahdin Pulp and Paper Company, Lincoln, Maine. Re-renewed Apr. 30, 1952, to Eastern Corporation, Bangor, Maine, a corporation of Maine. Lining, Wrapping, Printing and Writing Paper. Class 37.

86,339. LA ESCEPCION. Regstered Apr. 30, 1912. Lutgarda Gener y Seycher. Re-renewed Apr. 30, 1952, to F. Palicio y Compañía, S. A., Fábrica de Tabacos, Habana, Cuba, a corporation organized under the laws of the Republic of Cuba. Cigars, Cigarettes and Manufactured Tobacco. Class 17.

86,340. HOYO DE MONTERREY. Registered Apr. 30, 1912. Lutgarda Gener y Seycher. Re-renewed Apr. 30, 1952, to F. Palicio y Compañía, S. A., Fábrica de Tabacos, Habana, Cuba, a corporation organized under the laws of the Republic of Cuba. Cigars, Cigarettes and Manufactured Tobacco. Class 17.

86,528. REPRESENTATION OF BARREL WITH BLUE BANDS AROUND SAME. Registered May 14, 1912. The Greif Bros. Co., Cleveland, Ohio. Re-renewed May 14, 1952, to The Greif Bros. Cooperage Corporation, Delaware, Ohio, a corporation of Delaware. Casks and Barrels. Class 2.

86,529. REPRESENTATION OF BARREL WITH RED BANDS AROUND SAME. Registered May 14, 1912. The Greif Bros. Co., Cleveland, Ohio. Re-renewed May 14, 1952, to The Greif Bros. Cooperage Corporation, Delaware, Ohio, a corporation of Delaware. Casks and Barrels. Class 2.

86,530. REPRESENTATION OF BARREL WITH GREEN BANDS AROUND SAME. Registered May 14, 1912. The Greif Bros. Co., Cleveland, Ohio. Re-renewed May 14, 1952, to The Greif Bros. Cooperage Corporation, Delaware, Ohio, a corporation of Delaware. Casks and Barrels. Class 2.

288,218. "SCLAFANI" ETC. AND DRAWING. Registered Oct. 20, 1931. Sclafani Brothers. Renewed Oct. 20, 1951, to Joseph L. Sclafani, Inc., Brooklyn, N. Y., a corporation of New York. Canned Vegetables and Canned Fish. Class 46.

289,144. "CHAMPION" WITH DIAMOND-SHAPED DESIGN. Registered Nov. 17, 1931. Champion Soap Co. Inc., New York, N. Y. Renewed Nov. 17, 1951, to The Dagmar Chemical Company, Incorporated, Stamford, Conn., a corporation of Connecticut. Anti-Freeze Compounds. Class 6.

289,698. RAILROAD MAN'S MAGAZINE. Registered Dec. 1, 1931. The Frank A. Munsey Company. Renewed Dec. 1, 1951, to Popular Publications, Inc., New York, N. Y., a corporation of New York. Monthly Magazine. Class 38.

289,928. "SCLAFANI BRAND" AND DESIGN. Registered Dec. 15, 1931. Sclafani Brothers. Renewed Dec. 15, 1951, to Joseph L. Sclafani, Inc., Brooklyn, N. Y., a corporation of New York. Olive Oil. Class 46.

290,407. "CHIEF" AND DRAWING LINED FOR RED, BLUE, YELLOW, BROWN, AND BLACK. Registered Jan. 5, 1932. The Cleveland Heater Company, Cleveland, Ohio, a corporation of Ohio. Renewed Jan. 5, 1952. Gas, Oil, and Vapor Burning Water Heaters and Their Structural Parts. Class 34.

290,408. CHIEF. Registered Jan. 5, 1932. The Cleveland Heater Company, Cleveland, Ohio, a corporation of Ohio. Renewed Jan. 5, 1952. Gas, Oil, and Vapor Burning Water Heaters and Their Structural Parts. Class 34.

290,552. "BECCO" AND DRAWING. Registered Jan. 12, 1932. Buffalo Electro-Chemical Company, Inc., Tonawanda, N. Y., a corporation of New York. Renewed Jan. 12, 1952. Hydrogen Peroxide, Ammonium Persulphate, and Potassium Persulphate. Class 6.

290,638. COUNTRY CLUB. Registered Jan. 12, 1932. The Billings & Spencer Company, Hartford, Conn., a corporation of Connecticut. Renewed Jan. 12, 1952. Golf Clubs. Class 22.

290,640. SUPERMALT. Registered Jan. 12, 1932. McKesson & Robbins, Incorporated, Bridgeport, Conn. Renewed Jan. 12, 1952, to McKesson & Robbins, Incorporated, New York, N. Y., a corporation of Maryland. Malt General Tonic. Class 18.

290,644. DRAFT-O-STAT. Registered Jan. 12, 1932. The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio. Renewed Jan. 12, 1952. Automatic Draft Controls. Class 34.

290,662. SHELL. Registered Jan. 12, 1932. Shell Oil Company, San Francisco, Calif. Renewed Jan. 12, 1952, to Shell Oil Company, New York, N. Y., a corporation of Delaware. Petroleum Coke. Class 1.

290,664. REPRESENTATION OF SHELL. Registered Jan. 12, 1932. Shell Oil Company, San Francisco, Calif. Renewed Jan. 12, 1952, to Shell Oil Company, New York, N. Y., a corporation of Delaware. Petroleum Coke. Class 1.

290,686. RIGMEL. Registered Jan. 12, 1932. The Bradford Dyers' Association, Limited, Bradford, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Renewed Jan. 12, 1952. Cotton Piece Goods. Class 42.

290,969. MELVANA. Registered Jan. 19, 1932. Forstmann & Huffmann Company. Renewed Jan. 19, 1952, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

290,974. PURPELLA. Registered Jan. 19, 1932. Forstmann & Huffmann Company. Renewed Jan. 19, 1952, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

291,050. "CHEVRON" AND DESIGN. Registered Jan. 26, 1932. The Garlock Packing Company, Palmyra, N. Y., a corporation of New York. Renewed Jan. 26, 1952. Machinery Packing Made of Fibrous Material and Rubber Composition. Class 35.

291,098. VELZARA. Registered Jan. 26, 1932. Forstmann & Huffmann Company. Renewed Jan. 26, 1952, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey. Woolen Piece Goods. Class 42.

291,120. "VELUNITE" WITH HEAVY UNDERLINE. Registered Jan. 26, 1932. Acme White Lead & Color Works. Renewed Jan. 26, 1952, to Acme Quality Paints, Inc., Detroit, Mich., a corporation of Michigan. Ready Mixed Paints, Semi-Liquid Paints, Paste Paints, Primers, Fillers, Etc. Class 16.

291,146. KODAK. Registered Feb. 2, 1932. Eastman Kodak Company. Renewed Feb. 2, 1952, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey. Interval Timers. Class 27.

291,164. WYANDOTTE L. S. ALKALI. Registered Feb. 2, 1932. The J. B. Ford Company. Renewed Feb. 2, 1952, to Wyandotte Chemicals Corporation, Wyandotte, Mich., a corporation of Michigan. Cleaning, Cleansing, and Detergent Materials, Etc. Class 52.

291,281. SMOKEMASTER. Registered Feb. 9, 1932. Chicago Flexible Shaft Company. Renewed Feb. 9, 1952, to Sunbeam Corporation, Chicago, Ill., a corporation of Illinois. Combined Electric Cigarette Lighters and Dispensers. Class 8.

291,502. "SPUR" ETC. AND DRAWING. Registered Feb. 9, 1932. Spur Distributing Co. Inc., Nashville, Tenn., a corporation of Delaware. Renewed Feb. 9, 1952. Gasoline and Lubricating Oils. Class 15.

291,588. WARNERCRAFT. Registered Feb. 23, 1932. The Warner Brothers Company, Bridgeport, Conn., a corporation of Connecticut. Renewed Feb. 23, 1952. Packing Boxes Comprising Paper Boxes, Wood Boxes, and Boxes Molded From Composition Materials—Namely, "Bakelite," "Durez," "Beetle," "Aldur," and "Lumarith." Class 2.

291,657. "COLORPACKERCHIEF" AND DESIGN. Registered Feb. 23, 1932. The International Handkerchief Mfg. Co., New York, N. Y., a corporation of New York. Renewed Feb. 23, 1952. Handkerchiefs. Class 39.

291,798. TOY. Registered Feb. 23, 1932. James Arthur Weller, Jr., doing business as The Welmont Packing Co., New York, N. Y. Renewed Feb. 23, 1952, to James Arthur Weller, Jr., doing business as The Welmont Packing Co., Goshen and New York, N. Y. Pickles. Class 46.

291,812. VICTOR. Registered Feb. 23, 1932. The Cleveland Heater Company, Cleveland, Ohio, a corporation of Ohio. Renewed Feb. 23, 1952. Gas, Oil, and Vapor Burning Water Heaters and Their Structural Parts. Class 34.

291,953. VINELAND. Registered Feb. 23, 1932. United Drug Company, Boston, Mass. Renewed Feb. 23, 1952, to Rexall Drug Company, Los Angeles, Calif., a corporation of Delaware. Medicinal Tonic Specially Recommended for Simple Debility of Convalescents and Elderly Persons. Class 18.

291,999. GUARDIAN. Registered Mar. 1, 1932. The Garlock Packing Company, Palmyra, N. Y., a corporation of New York. Renewed Mar. 1, 1952. Semi-Metallic Gaskets. Class 35.

292,190. PARKER BRAND. Registered Mar. 1, 1932. Boston Fresh Tripe Co., Brighton, Boston, Mass. Renewed Mar. 1, 1952, to Swift & Company, Chicago, Ill., a corporation of Illinois. Pigs' Feet (Boneless Soused and Cooked Vinegar Pickled), Spiced and Pickled Pigs' Feet Dainties, Etc. Class 46.

292,327. SUPERWEAR. Registered Mar. 15, 1932. Marshall Field & Company, Chicago, Ill., a corporation of Illinois. Renewed Mar. 15, 1952. Sheets and Pillow Cases of Cotton and Towels of Linen or Cotton. Class 42.

292,603. FLASH. Registered Mar. 15, 1932. Lily Mill and Power Company. Renewed Mar. 15, 1952, to Lily Mills Company, Shelby, N. C., a corporation of North Carolina. Sewing Thread. Class 43.

292,768. CEPEA. Registered Mar. 29, 1932. The Calico Printers' Association Limited, Manchester, England, a company organized under the laws of Great Britain and Northern Ireland. Renewed Mar. 29, 1952. Fabrics Composed Wholly or Mainly of Cellulose, Wood Pulp, or Viscose. Class 42.

293,013. WALK-OVER. Registered Apr. 5, 1932. Geo. E. Keith Company, Brockton, Mass., a corporation of Massachusetts. Renewed Apr. 5, 1952. Hand Bags. Class 3.

293,157. SUPREME. Registered Apr. 12, 1932. Icard Cordage Company, Icard, N. C. Renewed Apr. 12, 1952, to Samson Cordage Works, Boston, Mass., a corporation of Massachusetts. Sashcord and Clotheslines. Class 7.

293,327. PARVA. Registered Apr. 19, 1932. Parva Products Company, Chicago, Ill. Renewed Apr. 19, 1952, to Parva Products Company, Mount Carmel, Conn., a corporation of Delaware. Buckles Not Made of Precious Metal. Class 40.

293,425. "TULIP" AND DRAWING. Registered Apr. 19, 1932. Lily Mill and Power Company. Renewed Apr. 19, 1952, to Lily Mills Company, Shelby, N. C., a corporation of North Carolina. Sewing Thread. Class 43.

293,426. BEACHANESE. Registered Apr. 19, 1932. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Apr. 19, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

293,523. RADIUNESE. Registered Apr. 26, 1932. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed Apr. 26, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

293,670. "WHEELDEX" WITHIN OVAL DESIGN. Registered May 3, 1932. Schoifield Service, Inc., New York, N. Y. Renewed May 3, 1952, to Wheeldex Manufacturing Co., Inc., White Plains, N. Y., a corporation of New York. Filing Cabinets. Class 32.

293,851. FREON. Registered May 10, 1932. Kinetic Chemicals, Inc. Renewed May 10, 1952, to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Fluorinated Hydrocarbons Used as Refrigerants, Propellants, and Fire Extinguishing Preparations. Class 6.

293,974. CRANE. Registered May 10, 1932. Crane Co., Chicago, Ill., a corporation of Illinois. Renewed May 10, 1952. Heating Materials—Namely, Check Valves, Stop Valves, and Gate Valves; Etc. Class 13.

294,037. DIRENE. Registered May 17, 1932. Howard W. Naylor, doing business as H. W. Naylor Co., Morris, N. Y. Renewed May 17, 1952. Veterinary Medicine for Use in the Treatment of Diarrhea. Class 18.

294,061. SUNKIST. Registered May 17, 1932. Benjamin Ansehl, doing business as The Benjamin Ansehl Company, University City, Mo. Renewed May 17, 1952, to The Benjamin Ansehl Company, St. Louis, Mo., a corporation of Missouri. Toilet Articles, Preparations, and Products—Namely, Skin Tonics, Skin Lotions, Skin Creams, and Rouge. Class 51.

294,190. HI-CARB. Registered May 24, 1932. Stowe Hardware & Supply Company, Kansas City, Mo., a corporation of Missouri. Renewed May 24, 1952. Plow Shares, Lister Shares, Middle Burster Shares, Metal Shapes, Etc. Class 23.

294,193. EXPRESS. Registered May 24, 1932. American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia. Renewed May 24, 1952. Razor Blades. Class 23.

294,194. MILDAM. Registered May 24, 1932. American Safety Razor Corporation, Brooklyn, N. Y., a corporation of Virginia. Renewed May 24, 1952. Razor Blades. Class 23.

294,218. PLUMITE. Registered May 24, 1932. Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois. Renewed May 24, 1952. Solvents for Cleaning Drain Pipes and Plumbing Fixtures. Class 52.

294,233. SAVON. Registered May 24, 1932. Griggs, Cooper & Co., also doing business as Sanitary Food Mfg. Co., St. Paul, Minn., a corporation of Delaware. Renewed May 24, 1952. Coffee. Class 46.

294,294. "LADY TREAT" AND DRAWING. Registered May 24, 1932. Kresge Department Store Corporation. Renewed May 24, 1952, to Kresge-Newark, Inc., Newark, N. J., a corporation of New Jersey. Dress Shields, Combs, and Hair Pins Not Made of Precious Metal, Etc. Class 40.

294,297. "TODD" AND DRAWING. Registered May 24, 1932. The Todd Company, Inc., Rochester, N. Y., a corporation of New York. Renewed May 24, 1952. Business Forms—Namely, Checks, Drafts, Money Orders, Safety Paper, Etc. Class 37.

294,485. "THE CLINIC SHOE" AND DRAWING. Registered May 31, 1932. The Juvenile Shoe Corporation of America, Aurora, Mo., a corporation of Missouri. Renewed May 31, 1952. Shoes and Slippers of Leather or Kid. Class 39.

294,622. FOOT CARESS. Registered June 7, 1932. W. B. Coon Company, Rochester, N. Y., a corporation of New York. Renewed June 7, 1952. Women's Leather Shoes. Class 39.

294,808. DAG. Registered June 7, 1932. Acheson Oildag Company. Renewed June 7, 1952, to Acheson Colloids Corporation, Port Huron, Mich., a corporation of Michigan. Colloidal Graphite in Various Mediums for Various Uses in the Industrial Arts. Class 6.

294,965. SILVER MIST. Registered June 14, 1932. Atlantic Seafood Packers, Inc. Renewed June 14, 1952, to The Ploeger-Abbott Company, Darien, Ga., a partnership. Canned Seafoods—Namely, Shrimp, Oysters, Prawns. Class 46.

295,195. "TRU TROT" ETC. AND DRAWING. Registered June 21, 1932. Samuel Cohen Shoe Stores, Inc., doing business as The New Shoe Store, Hempstead, N. Y., a corporation of New York. Renewed June 21, 1952. Leather and Fabric Shoes. Class 39.

295,350. POLKA LACE. Registered June 28, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed June 28, 1952. Laces in the Form of Piece Goods. Class 42.

295,367. SPYRANESE. Registered June 28, 1922. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed June 28, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

295,369. CRISPANNESE. Registered June 28, 1932. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed June 28, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

295,402. "NEWAYGO" ETC. AND DRAWING. Registered June 28, 1932. Newaygo Portland Cement Company, Newaygo, Mich. Renewed June 28, 1952, to Medusa Portland Cement Company, Cleveland, Ohio, a corporation of Ohio. Portland Cement. Class 12.

295,490. CO-ED. Registered July 5, 1932. Holman Soap Company. Renewed July 5, 1952, to Comfort Manufacturing Company, Chicago, Ill., a corporation of Illinois. Toilet Soap. Class 52.

295,603. CRUISERS. Registered July 5, 1932. Van Raalte Company, Inc., New York, N. Y., a corporation of New York. Renewed July 5, 1952. Pajamas. Class 39.

295,648. LANVINESE. Registered July 5, 1932. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed July 5, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

295,649. PARINESE. Registered July 5, 1932. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed July 5, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

295,650. PEERANESE. Registered July 5, 1932. Celanese Corporation of America, New York, N. Y., a corporation of Delaware. Renewed July 5, 1952. Fabrics Made Wholly or Partially of Cellulose Derivatives. Class 42.

TRADE-MARK REGISTRATIONS CANCELED AND SURRENDERED

299,057. RAINBEAU. Registered Nov. 22, 1932. Stadium Underwear Company, Incorporated, Baltimore, Md. Pajamas. Class 39. Canceled Mar. 14, 1952. Sec. 18.

317,907. SUNRISE PEAT MOSS. Registered Oct. 9, 1934. Sigmond Rothschild Company, Houston, Tex. Fertilizers. Class 10. Canceled Mar. 18, 1952. Sec. 7(d).

340,302. CUSTOM CRAFTERS. Registered Nov. 3, 1936. Levy Bros. & Adler Rochester, Incorporated, Rochester, N. Y. Men's and Boys' Suits, Topcoats, and Overcoats. Class 39. Canceled Mar. 10, 1952. Sec. 18.

343,587. "RAINBOW" ETC. AND DESIGN. Registered Feb. 23, 1937. Cannon Shoe Company, Baltimore, Md. Women's and Misses' Lingerie—Namely, Slips, Chemises, Dance Sets Comprised of Brassières and Panties, Etc. Class 39. Canceled Mar. 14, 1952. Sec. 18.

387,338. ALL-OVER-ALLS. Registered May 13, 1941. Washington Manufacturing Company, Nashville, Tenn. Overall Suits for Men, Women, and Children. Class 39. Canceled Mar. 14, 1952. Canc. No. 5560.

397,039. TANGI-CHEZE. Registered Aug. 11, 1942. American Smoked Cheese Company, Brooklyn, N. Y. Smoked Cheese. Class 46. Canceled Mar. 14, 1952. Canc. No. 5747.

440,505. STROKUM. Registered Sept. 7, 1948. John L. Nilson, Chicago, Ill. Golf Clubs and Parts Thereof. Class 22. Canceled Mar. 14, 1952. Canc. No. 5807.

518,021. "MANCHESTER MILLS" ETC. AND DESIGN. Registered Nov. 22, 1949. Donald Schlesinger, New York, N. Y. Hair Cloth in the Piece, for Interlining and Stiffening for Use in Connection With the Making of Suits, Etc. Class 42. Canceled Mar. 14, 1952. Canc. No. 5783.

522,476. FLUF-Y-POP. Registered Mar. 14, 1950. Confections, Inc., Chicago, Ill. Shelled Pop Corn. Class 46. Canceled Mar. 14, 1952. Canc. No. 5592.

527,896. "SILVER STAR" AND DESIGN. Registered July 18, 1950. M. R. Pope, Eagletown, Okla. Hair and Scalp Tonic. Class 51. Canceled Mar. 10, 1952. Canc. No. 5790.

544,195. "PIN CURL" AND DESIGN. Registered June 19, 1951. Harry G. Douglas, St. Louis, Mo. Cold Wave Creme. Class 51. Canceled Mar. 14, 1952. Canc. No. 5813.

547,680. ROGERS. Registered Sept. 4, 1951. Bernard E. Weisberg, New York, N. Y. Cooking Utensils Made of Non-Precious Metal—Namely, Pots, Etc. Class 13. Canceled Mar. 24, 1952. Sec. 7(d).

547,681. ROGERS. Registered Sept. 4, 1951. Bernard E. Weisberg, New York, N. Y. Earthenware and Ceramic Dinnerware—Namely, Cups, Saucers, Etc. Class 30. Canceled Mar. 24, 1952. Sec. 7(d).

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

554,845. TRAVIS FABRICS. Registered Feb. 12, 1952. Traford Fabrics, Inc., now by change of name Travis Fabrics, Inc., New York, N. Y. Fabrics Made of Cotton and Synthetic Fibers Sold in the Piece. Class 42. Corrected as follows: In the certificate, lines 3 and 4, and 14, and in the heading to the statement, line 2, for "Trairs Fabrics, Inc." read *Travis Fabrics, Inc.*

TRADE-MARK REGISTRATIONS—NEW CERTIFICATES

New Certificates issued under sections 7(c), 7(f), 7(g) of the Trade-Mark Act of 1946 for the unexpired term of the original registrations.

508,176. FLEET LINE. Registered Apr. 5, 1949. Motor Export Manufacturing Co. Electric Motors. Class 21. New certificate under section 7(c) issued Apr. 22, 1952, to The Brown-Brockmeyer Company, Dayton, Ohio, a corporation of Ohio.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 291,950. Registered Feb. 23, 1932. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

TETRONE

For Chemicals Used in the Manufacture of Rubber Which Accelerate Vulcanization.

Claims use since Oct. 13, 1931.

Reg. No. 292,875. Registered Mar. 29, 1932. E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Republished by registrant.

SERISTAN

For Dyes and Dyestuffs, Especially Colors Suitable for the Dyeing of Tinweighted Silk.

Claims use since Oct. 5, 1931.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Reg. No. 393,127. Registered Jan. 27, 1942. Edgcomb Steel Company, Philadelphia, Pa., a corporation of Pennsylvania. Republished by registrant.



The drawing is lined for blue and red. The word "Steel" is disclaimed apart from the mark as shown.

For Steel Sheets, Steel Strips, Steel Bars, and Steel Coils.

Claims use since on or about May 15, 1941.

CLASS 15

OILS AND GREASES

Reg. No. 213,587. Registered June 1, 1926. Independent Oil and Gas Company, Tulsa, Okla. Republished by Standard Oil Company, Chicago, Ill., a corporation of Indiana.

IndOlube

For Lubricating Oils.
Claims use since May 1925.

Reg. No. 282,339. Registered Apr. 21, 1931. Otis Oil Company, Inc., New York, N. Y. Republished by Ilsley Doubleday & Company, New York, N. Y.



The words "Aero" and "Oil" are disclaimed apart from the mark as shown.
For Lubricating Oil.
Claims use since about July 1926.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 61,631. Registered Apr. 2, 1907. Holzapfel's Compositions Company, Limited, Newcastle-Upon-Tyne; England. Republished by International Paint Company, Inc., New York, N. Y., a corporation of New York.



For Anticorrosive and Antifouling Paint, Mixed Paint, and Enamels.
Claims use since July 18, 1890.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 51,714. Registered Apr. 24, 1906. Rodriguez, Arguelles & Company, Havana, Cuba. Republished by Romeo y Julieta, Fábrica de Tabacos, S. A., Havana, Cuba, a corporation of Cuba.



For Cigars.
Claims use since the middle of November 1874.

Reg. No. 290,377. Registered Jan. 5, 1932. Jno. H. Swisher & Son, Inc., Jacksonville, Fla., a corporation of Ohio. Republished by registrant.

RED RANGER

For Cigars.
Claims use since Jan. 29, 1900.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 339,659. Registered Oct. 13, 1936. Chicago Pharmacal Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

BURNINE

For Ointment Used in Treating Burns.
Claims use since Sept. 1, 1922.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 290,917. Registered Jan. 19, 1932. Fabriques Movado, La Chaux-de-Fonds, Switzerland, a corporation organized under the laws of Switzerland. Republished by registrant.

CURVIPLAN

For Watches and Parts Thereof.
Claims use since August 1930.

CLASS 39

CLOTHING

Reg. No. 286,192. Registered Aug. 18, 1931. Troy Wholesale Corporation, Troy, N. Y., a corporation of New York. Republished by registrant.

TROJAN

For Hosiery, Sweaters, and Underwear, All for Men, Women, and Children.
Claims use since on or about Jan. 1, 1922.

Reg. No. 287,279. Registered Sept. 15, 1931. Periman Brothers, Savannah, Ga., a firm. Republished by registrant.

YACHUM
YACHUM

For Shoes Made of Leather or Partly of Leather, Ladies' and Children's Dresses, and Men's and Boys' Suits.
Claims use since July 1, 1923.

Reg. No. 290,582. Registered Jan. 12, 1932. Puritan Knitting Mills, Inc., Philadelphia, Pa. Republished by The Puritan Sportswear Corp., Altoona, Pa., a corporation of Pennsylvania.



For Bathing Suits, Bathing Trunks, Bathing Shirts, Bathing Hats, and Bathing Capes.
Claims use since Aug. 20, 1930.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 378,601. Registered June 11, 1940. Barkin, Levin, & Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Leemoor Fabric

The word "Fabric" is disclaimed apart from the mark as shown.
For Silks, Woolens, Cotton, Rayon, and Combination Silk and Rayon Piece Goods.
Claims use since January 1937.

CLASS 43

THREAD AND YARN

Reg. No. 281,184. Registered Mar. 10, 1931. Courtaulds, Limited, London, England, a British company. Republished by registrant.

COURTAULDS

For Yarns of Cellulose.
Claims use since the year 1910.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Reg. No. 221,396. Registered Nov. 30, 1926. The Larsen Company, Green Bay, Wis., a corporation of Wisconsin. Republished by registrant.

TOY TOWN

For Canned Vegetables—Namely, Peas, Sauer-Kraut, Mixed Vegetables, and Beets.
Claims use since May 28, 1925.

Reg. No. 243,231. Registered June 12, 1928. Mitchel L. Kalich, doing business as M. L. Kalich & Company, Watsonville, Calif. Republished by M. L. Kalich & Co., Watsonville, Calif., a copartnership.

LION

For Fresh Fruits—Namely, Apples; Fresh Vegetables—Namely, Lettuce.
Claims use since Apr. 1, 1910.

Reg. No. 276,730. Registered Oct. 28, 1930. San Diego Fruit & Produce Company, San Diego, Calif., a corporation of California. Republished by registrant.



For Fresh Apples, Pears, Peaches, Plums, Cherries, Apricots, Peas, Tomatoes, Potatoes, Beans, Fava Beans, Cauliflower, Lettuce, Broccoli, Artichokes, Figs, Grapes, Oranges, Lemons, and Grapefruit; and on Such Dried Fruits as Figs, Raisins, Peaches, Apricots, and Dates.
Claims use since Dec. 5, 1929.

Reg. No. 325,372. Registered June 18, 1935. The Larsen Company, Green Bay, Wis., a corporation of Wisconsin. Republished by registrant.

GREEN BAY

For Canned Fruits and Canned Vegetables—Namely, Peas, Sauer Kraut, Beets, and Cherries.
Claims use since Jan. 1, 1894.

CLASS 15

OILS AND GREASES

Reg. No. 213,587. Registered June 1, 1926. Independent Oil and Gas Company, Tulsa, Okla. Republished by Standard Oil Company, Chicago, Ill., a corporation of Indiana.

IndOlube

For Lubricating Oils.
Claims use since May 1925.

Reg. No. 282,339. Registered Apr. 21, 1931. Otis Oil Company, Inc., New York, N. Y. Republished by Ilsley Doubleday & Company, New York, N. Y.



The words "Aero" and "Oil" are disclaimed apart from the mark as shown.
For Lubricating Oil.
Claims use since about July 1926.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 61,631. Registered Apr. 2, 1907. Holzapfel's Compositions Company, Limited, Newcastle-Upon-Tyne; England. Republished by International Paint Company, Inc., New York, N. Y., a corporation of New York.



For Anticorrosive and Antifouling Paint, Mixed Paint, and Enamels.
Claims use since July 18, 1890.

CLASS 17

TOBACCO PRODUCTS

Reg. No. 51,714. Registered Apr. 24, 1906. Rodriguez, Arguelles & Company, Havana, Cuba. Republished by Romeo y Julieta, Fábrica de Tabacos, S. A., Havana, Cuba, a corporation of Cuba.

ROMEO Y JULIETA

For Cigars.
Claims use since the middle of November 1874.

Reg. No. 290,377. Registered Jan. 5, 1932. Jno. H. Swisher & Son, Inc., Jacksonville, Fla., a corporation of Ohio. Republished by registrant.

RED RANGER

For Cigars.
Claims use since Jan. 29, 1900.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Reg. No. 339,659. Registered Oct. 13, 1936. Chicago Pharmacal Company, Chicago, Ill., a corporation of Illinois. Republished by registrant.

BURNINE

For Ointment Used in Treating Burns.
Claims use since Sept. 1, 1922.

CLASS 27

HOROLOGICAL INSTRUMENTS

Reg. No. 290,917. Registered Jan. 19, 1932. Fabriques Movado, La Chaux-de-Fonds, Switzerland, a corporation organized under the laws of Switzerland. Republished by registrant.

CURVIPLAN

For Watches and Parts Thereof.
Claims use since August 1930.

CLASS 39

CLOTHING

Reg. No. 286,192. Registered Aug. 18, 1931. Troy Wholesale Corporation, Troy, N. Y., a corporation of New York. Republished by registrant.

TROJAN

For Hosiery, Sweaters, and Underwear, All for Men, Women, and Children.
Claims use since on or about Jan. 1, 1922.

Reg. No. 287,279. Registered Sept. 15, 1931. Perlman Brothers, Savannah, Ga., a firm. Republished by registrant.

YACHUM
YACHUM

For Shoes Made of Leather or Partly of Leather, Ladies' and Children's Dresses, and Men's and Boys' Suits.
Claims use since July 1, 1923.

Reg. No. 290,582. Registered Jan. 12, 1932. Puritan Knitting Mills, Inc., Philadelphia, Pa. Republished by The Puritan Sportswear Corp., Altoona, Pa., a corporation of Pennsylvania.



For Bathing Suits, Bathing Trunks, Bathing Shirts, Bathing Hats, and Bathing Capes.
Claims use since Aug. 20, 1930.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 378,601. Registered June 11, 1940. Barkin, Levin, & Co. Inc., New York, N. Y., a corporation of New York. Republished by registrant.

Leemoor Fabric

The word "Fabric" is disclaimed apart from the mark as shown.
For Silks, Woolens, Cotton, Rayon, and Combination Silk and Rayon Piece Goods.
Claims use since January 1937.

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THREAD AND YARN

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Claims use since the year 1910.

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TOY TOWN

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Claims use since May 28, 1925.

Reg. No. 243,231. Registered June 12, 1928. Mitchel L. Kalich, doing business as M. L. Kalich & Company, Watsonville, Calif. Republished by M. L. Kalich & Co., Watsonville, Calif., a copartnership.

LION

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Claims use since Apr. 1, 1910.

Reg. No. 276,730. Registered Oct. 28, 1930. San Diego Fruit & Produce Company, San Diego, Calif., a corporation of California. Republished by registrant.



For Fresh Apples, Pears, Peaches, Plums, Cherries, Apricots, Peas, Tomatoes, Potatoes, Beans, Fava Beans, Cauliflower, Lettuce, Broccoli, Artichokes, Figs, Grapes, Oranges, Lemons, and Grapefruit; and on Such Dried Fruits as Figs, Raisins, Peaches, Apricots, and Dates.
Claims use since Dec. 5, 1929.

Reg. No. 325,372. Registered June 18, 1935. The Larsen Company, Green Bay, Wis., a corporation of Wisconsin. Republished by registrant.

GREEN BAY

For Canned Fruits and Canned Vegetables—Namely, Peas, Sauer Kraut, Beets, and Cherries.
Claims use since Jan. 1, 1894.

Reg. No. 364,577. Registered Feb. 7, 1939. Lance Packing Company, Charlotte, N. C. Republished by Lance, Inc., Charlotte, N. C., a corporation of North Carolina.

CHOC-O-LUNCH

The word "Lunch" is disclaimed apart from the mark as shown.

For Peanut Butter Sandwiches.

Claims use since Oct. 4, 1935.

Reg. No. 412,197. Registered Feb. 20, 1945. Lance, Inc., Charlotte, N. C., a corporation of North Carolina. Republished by registrant.

VAN-O-LUNCH

The word "Lunch" is disclaimed apart from the mark as shown.

For Cookie Sandwiches.

Claims use since Sept. 1, 1942.

PLANT PATENTS

GRANTED APRIL 22, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,083

ROSE PLANT

Roy L. Byrum, Richmond, Ind., assignor to Joseph H. Hill Company, Richmond, Ind., a corporation of Indiana

Application March 23, 1951, Serial No. 217,145

1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the hybrid tea class, characterized as to novelty by the general similarity of its foliage, habits of growth and shape of bud and bloom to those of its parent "Pearl Harbor" (Plant Patent No. 637), by the uniformity of yellow color of its blooms which shade to a somewhat darker yellow towards their center but hold their color during extremely hot weather, and by the distinctive and pronounced fragrance of its flowers, especially in cut-flower groups, substantially as herein shown and described.

1,084

SHASTA DAISY PLANT

Colin McMullen, Little Sutton, Wirral, England, assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York

Application February 13, 1951, Serial No. 210,680

1 Claim. (Cl. 47—60)

A new and distinct variety of Shasta daisy plant, characterized by its large size flowers of the Anemone-flowered type of *Chrysanthemum maximum*, said flowers being borne on long, clean stems and having long-lasting and excellent keeping qualities, and by its vigorous growth and very prolific production of massive clumps of white flowers of the cushion type, substantially as shown and described herein.

1,085

POINSETTIA PLANT

Carol H. Hunkel, Milwaukee, Wis., assignor to Holton & Hunkel Co., Milwaukee, Wis., a corporation of Wisconsin

Application February 20, 1951, Serial No. 211,830

1 Claim. (Cl. 47—60)

A new and distinct variety of poinsettia plant, substantially as shown and described, characterized by its short stem internodes, and its distinctive coloring and arrangement of multiple layers of creamy white bracts.

PATENTS

GRANTED APRIL 22, 1952

2,593,396
PROCESS FOR FIXING PHOTOGRAPH ON GLASS
Leslie Robert Dover Beck, Birmingham, England
No Drawing. Application February 6, 1950, Serial No. 142,718. In Great Britain February 7, 1949
1 Claim. (Cl. 41—42)

A process of fixing, on a glass plate, a gelatine film having a photographic, printed or like illustration or representation on the face applied to the plate, in which the surface of the glass is finely pitted to form keying recesses of a size which will not apparently distort the illustration or representation moulded thereon and so that the smoothness of the glass surface or transparency of the glass is not affected, soaking the said film in a heated liquid adhesive containing resin, applying the side of the gelatine film with the illustration or representation thereon thus treated with the adhesive to the pitted surface of the glass and pressing the same thereon, and then treating the film covered glass by heat to harden the resin contained in the adhesive.

2,593,397
PROCESS OF PRODUCING FILAMENTS
Willem Leendert Johannes de Nie, London, England, and Gottfried Ernst Rumscheidt, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 14, 1948, Serial No. 38,744. In the Netherlands July 17, 1947
7 Claims. (Cl. 18—54)

1. In a process for producing filaments, the steps comprising spinning a solution of a hydroperoxide and a rubbery polymer of at least one conjugated diolefin compound in a cyclic hydrocarbon solvent the nuclear portion of which is free of aliphatic multiple bonds, into a coagulating bath comprising a solution of sulfur dioxide in a solvent made up in major portion of a cyclic hydrocarbon solvent having substantially the same composition as that employed to dissolve the hydroperoxide and rubbery polymer and containing a minor percentage of water, the rubbery polymer reacting with the sulfur dioxide in the bath to form an insoluble filamentary reaction product; and withdrawing the said filamentary product from the coagulating bath.

2,593,398
METHOD OF REDUCING ORES WITHOUT MELTING
Bo Michael Sture Kalling, Domnarvet, Sweden
No Drawing. Application April 5, 1949, Serial No. 85,706. In Sweden June 11, 1943
4 Claims. (Cl. 75—36)

1. A method of reducing metal oxide ores which comprises establishing and maintaining a body of a mixture of ore and a solid reducing agent in loose granular form in a substantially horizontal rotary cylindrical furnace chamber by supplying ore and reducing agent at one end of said body and withdrawing reduced ore together with remaining reducing agent from the other end of said body, the reducing agent being added in an excess of at least 50 per cent over the amount required for the reduction of the ore plus that consumed by combustion, continuously rotating the reaction chamber around its substantially horizontal axis thereby causing a tumbling action within said body the upper boundary of which takes the shape of a sloping surface of rolling and sliding particles substantially consisting of reducing agent, heating at least a portion of said sloping surface to incandescing temperature and maintaining incandescence by continuously blowing oxygen containing gas onto said surface portion thereby simultaneously burning combustible gases evolving from said body and the solid fuel particles in said surface portion and thereby transmitting heat necessary for the reduction of the ore to the interior of said body.

2,593,399
MASS POLYMERIZATION OF STYRENE AT 285° C.
Harold F. Park, East Longmeadow, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application November 19, 1949, Serial No. 128,473
1 Claim. (Cl. 260—93.5)

A mass polymerization process which comprises polymerizing styrene in contact with acrylyl peroxide at 285° C. in from 5 to 30 minutes.

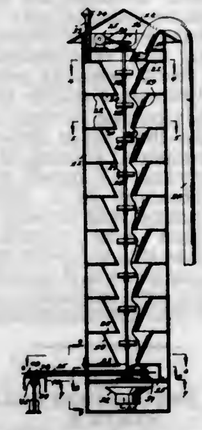
2,593,400
FIREPROOFING COMPOSITIONS
Jules J. Rakos, Beyoglu-Istanbul, Turkey
No Drawing. Application October 5, 1948, Serial No. 52,975
2 Claims. (Cl. 106—15)

1. A fireproofing coating composition useful in protection against persistent types of flame, such as gasoline flame, comprising 48% sodium silicate, 20% trisodium phosphate, 20% lithopone, 10% finely divided quartz, 1% formaldehyde, and 1% sodium hydroxide, said percentages being by weight, said composition being characterized by its anti-flaking and anti-peeling qualities when a dried film of said composition is exposed to flame of high temperature, such as gasoline flame.

2,593,401
HAY DRYING MACHINE
Berne C. Adams, Mehoopany, Pa.
Application July 8, 1949, Serial No. 103,678
2 Claims. (Cl. 34—173)

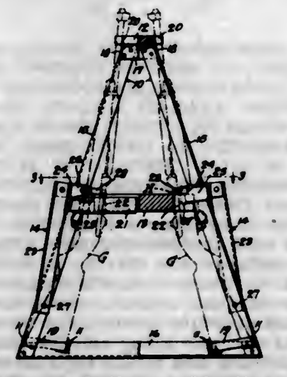
1. In a drier, a vertical cylindrical housing, a plurality of funnel-shaped chambers positioned axially in said housing, means securing said chambers to the sidewall of said housing in concentrically spaced relation thereto, said means being discontinuous around the chambers to provide for free passage of heat from the lower part of said housing to the upper part of said housing around said chambers, the larger upper ends of downwardly successive chambers being open

to the smaller lower ends thereof whereby material deposited in the uppermost chambers can fall successively through said plurality of chambers, means in the upper part of said housing above the uppermost chamber for depositing material therein to be dried, means in the lower part of said housing for receiving dried material from the lowermost chamber and conveying the dried material to the exterior of said housing, heating means in the lower part of said housing



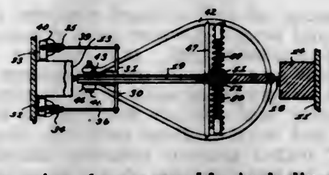
beneath said conveying means, a rotary shaft extending vertically through the chambers, and an agitator positioned within each chamber intermediate the upper and lower ends thereof and connected to the adjacent portion of said shaft, the larger upper ends of some of said chambers having annular wall sections thereon forming partial closures for the upper ends of the chambers, said annular wall sections surrounding and being connected to the smaller lower ends of the next above chambers.

2,593,402
GUNRACK
John P. Aitchison, Washington, D. C., and Amos C. Bonkemeyer, Falls Church, Va., assignors to the United States of America as represented by the Secretary of the Army
Application November 29, 1949, Serial No. 129,995
2 Claims. (Cl. 211—64)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a gun rack the combination of a frame comprised of a pair of oppositely disposed triangular shaped end members, butt retaining elements interconnecting the end members adjacent the lower outer portions thereof adapted to receive the butts of guns, a horizontally disposed rack member formed with a row of outwardly opening slots adapted to individually receive the muzzle end portion of a gun, said rack member interconnecting the apical portions of said end members, a shelf disposed between said end members intermediate the top and bottom portions thereof formed with a row of outwardly opening slots adapted to individually and snugly receive the intermediate part of a gun closely adjacent the trigger guard, securing means formed with locking fingers adapted to individually engage a gun just above said trigger guard to secure the gun in the rack, said means swingably mounted on the rack for movement to and from the securing position of said fingers, and means for locking the securing means in gun securing position.

2,593,403
DOOR WITH CLOSING AND PROTECTING ASSEMBLY
Donald Bailey, Puritan Mines, W. Va.
Application April 21, 1950, Serial No. 157,341
3 Claims. (Cl. 20—16)

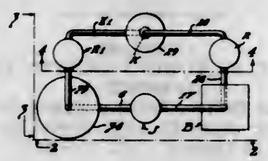


1. In a mine door assembly including a door hinged at one end to a support for swinging movement about a substantially vertical axis and support-carried means connected to the door for returning the door to its closed position from positions at either side of the closed position, resilient bumper means carried by the door for protecting the latter when bumped open by a moving vehicle comprising a guard rail of generally elliptical shape having its ends secured to the door at respectively opposite sides of and adjacent said one end thereof and its intermediate portion slidably supported by said door at the other end of the latter, said guard rail being disposed substantially perpendicular to said door and said vertical axis and having its sides spaced from the respectively opposite sides of the door, compression springs operatively interposed between the sides of said guard rails and the corresponding sides of said door resiliently resisting movement of said guard rail relative to said door, and a reinforcing bar extending slidably through said door adjacent said springs and transversely of said guard rail, said reinforcing bar having its ends connected one to each side of said guard rail to maintain the latter in said generally elliptical shape.

2,593,404
METHOD OF SEALING HYDROCARBON CONVERSION HOUSINGS
John W. Barker, Mount Vernon, N. Y., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application December 31, 1947, Serial No. 795,913
3 Claims. (Cl. 196—52)

1. In a hydrocarbon conversion system in which solid contact material is passed cyclically through separate zones wherein said material is contacted

with different gases under different gaseous pressures, the method of transferring said contact material between said zones while maintaining a substantial gas seal therebetween which comprises the steps of passing said contact material from the contact zone of lower gaseous pressure downwardly in a confined path as a compact moving column, elevating said contact material from the lower end of said column through an elongated confined elevator path having substantially uniform pressure throughout, passing all said contact material from the top of said elevator path downwardly in a second confined path, said contact material gravitating as a compact moving column through at least a portion of said second confined path, elevating said contact material from the lower end of said second confined path through a second elongated confined elevator path having substantially uniform pressure throughout, passing all said contact material from the top of said second elevator path downwardly in a third confined path, said contact material gravitating as a compact moving column through at least a portion of said third confined path, introducing said contact material at the lower end of said third confined path into the contact zone of higher gaseous pressure, introducing a gaseous sealing medium at a low point in the compact moving column of said third confined path to provide a pressure thereat greater than the pressure in said contact zone of higher pressure, passing said sealing medium countercurrently to said contact material through said third confined path, said second elevator path, and into said second confined path, and venting said gaseous sealing medium to the atmosphere at a point above the compact column in said second confined path.

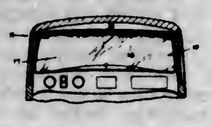


2,593,405
METHOD OF PREPARING A PLASTIC SHEET

Robert R. Beckham, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application July 30, 1949, Serial No. 107,730

10 Claims. (Cl. 18—56)



1. In a method of preparing a plastic sheet having at least one substantially straight edge to present a predetermined appearance when laminated as an interlayer between sheets of glass and mounted as part of a windshield in an automotive vehicle, the steps of dyeing a marginal portion of said sheet that is adjacent said substantially straight edge, distorting said dyed sheet into a shape in which the formerly substantially straight edge adjacent the dyed margin assumes a generally bowed contour, and first drying the dyed sheet at elevated temperatures and then cooling the same to room temperature while still holding it in its distorted shape.

2,593,406
DYESTUFFS AND METHOD OF MAKING SAME

David A. Berry, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application December 26, 1947, Serial No. 794,098

9 Claims. (Cl. 260—186)

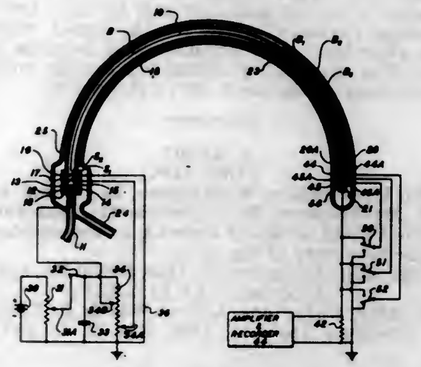
4. The process for preparing an azo dyestuff composition which includes the steps of condensing chlorinated paraffin wax having from 18–36 carbon atoms in the molecules thereof and containing about 60% of chemically combined chlorine, with about twice its weight of acetanilide, to substitute said anilide through a carbon atom of the aromatic nucleus thereof for at least one and less than all of the equivalents of the chemically combined chlorine of said chlorinated wax, hydrolyzing the anilide of the reaction product thus obtained to a primary amine, diazotizing the amine thus formed, coupling the diazotized product with 1-naphthylamine-2-sulfonic acid, subjecting the product thus formed to diazotization, coupling said product of the second diazotization with sulfanilic acid, and recovering the azo dyestuff thus formed.

2,593,407
VARIABLE RESOLUTION COLLECTOR SYSTEM

Clifford E. Berry, Altadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California

Application November 24, 1950, Serial No. 197,399

5 Claims. (Cl. 250—41.9)



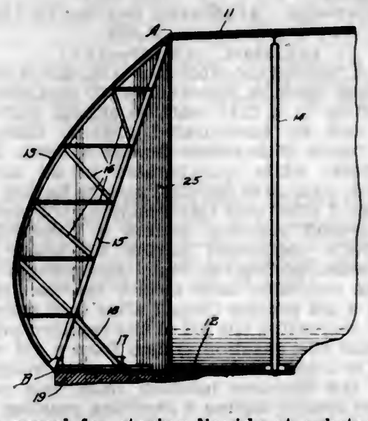
1. In a mass spectrometer having an ionization chamber, an analyzer chamber, means including a voltage source for propelling ions from said ionization chamber through the analyzer chamber, means for sorting ions in the analyzer chamber according to specific mass, a collector electrode mounted externally of said analyzer and an amplifier connected to receive and amplify signals from said collector electrode, the combination comprising a conductive barrier at the end of said analyzer chamber adjacent said collector electrode and having a first aperture therein, an auxiliary electrode disposed between said barrier and said collector electrode and having a second aperture therein, the minor axis of said second aperture being smaller than that of the first aperture, and means for alternately connecting said auxiliary electrode to the negative side of said voltage source and to said amplifier in parallel with said collector electrode.

2,593,408
SQUAROID

Harry C. Boardman, Chicago, Ill., assignor to Chicago Bridge & Iron Company, a corporation of Illinois

Application March 24, 1949, Serial No. 83,251

11 Claims. (Cl. 220—1)



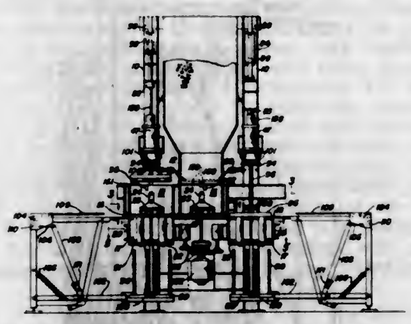
1. A vessel for storing liquids at substantially atmospheric pressure having a flat top, a flat bottom, and curved sidewalls, the vessel being polygonal in plan and the curvature of the sidewalls increasing from top to bottom to equalize tension therein when the vessel is full of liquid, with the angle at the juncture of the sidewalls to the roof being equal to the angle at the juncture of the sidewalls to the bottom, and strengthening means bracing each corner of the vessel.

2,593,409
STRAIGHT LINE BLOCK MOLDING MACHINE

Charles Kepler Brown, Jr., Fairmont, W. Va., assignor to Bergen Machine & Tool Company, Inc., a corporation of New Jersey

Application December 31, 1948, Serial No. 68,603

5 Claims. (Cl. 25—41)



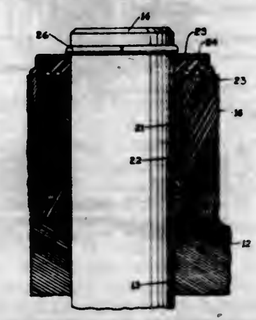
3. A block forming machine comprising a framework, a main hopper having a discharge throat and mounted on said framework ond containing aggregate, a platform secured to said framework beneath the main hopper, a feed transfer hopper slidable on said platform, said last named hopper having two compartments therein, means for automatically reciprocating the feed transfer hopper so that each compartment thereof aligns alternately with the discharge throat of the main hopper to receive aggregate therefrom, a pair of molds beneath the platform spaced on each side of the vertical axis of said framework such distance that one of said molds is always aligned with one compartment of the feed transfer hopper to receive the aggregate therefrom while the other compartment is aligned with the throat of the main hopper, an oscillator bar pivoted to the framework, a cam element at each end of said bar, said bar being oscillated by contact with the feed transfer hopper when the latter is at the end of each of its sliding movement, a vibrator connected with each mold and with said oscillator bar whereby each vibrator is sequentially operated when the feed transfer hopper reaches each end of its reciprocations, means for lifting the molded articles from each mold to the level of the platform and means for removing said articles from the machine.

2,593,410
SEAL

Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

Application June 18, 1945, Serial No. 600,058

5 Claims. (Cl. 286—11.13)



1. In a sealing assembly wherein an inner cylindrical pin projects through a surrounding relatively rotatable part having a flat outer sealing surface surrounding and disposed substantially at right angles to the axis of said pin, an element of resilient homogeneous material having a bore tightly gripping the periphery of said pin and having a sealing face adapted to engage said flat surface of said part, said resilient annulus being cup-shaped in relaxed condition with said sealing surface substantially concave, a backing member for said element, means to position said member in axially fixed relation on said pin to deform said element and press said sealing face flat against said surface in the assembly, and an annular groove formed in said sealing face of said sealing element for trapping foreign matter which may enter the seal and pass along said surface, the outer edge of said sealing face being more tightly pressed against said surface than the inner portion thereof for optimum resistance to entrance of foreign matter into the assembly.

2,593,411
BIS(4-β-HYDROXYALKOXYPHENYL) SULFONES AND POLYESTERS PREPARED THEREFROM

John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

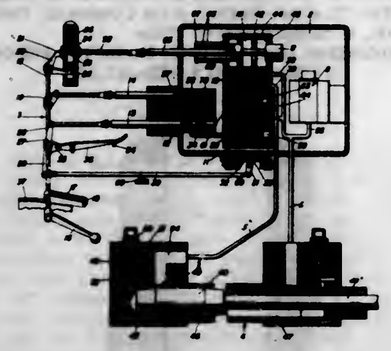
No Drawing. Application December 21, 1949, Serial No. 134,340

20 Claims. (Cl. 260—75)

10. A process for preparing polyesters comprising reacting at a temperature of from about

125° C. to about 275° C. in the presence of a condensing agent, a dicarboxyl compound containing from 4 to 10 carbon atoms selected from the group consisting of the saturated and unsaturated aliphatic dicarboxylic acids and the monocyclic dicarboxylic aromatic acids and the anhydrides and lower alkyl esters of each of these acids, with bis (4-β-hydroxyethoxyphenyl) sulfone.

2,593,412
GUN RAMMER
George A. Chadwick, Detroit, Mich., and Paul W. Burk, Washington, D. C.
Application November 13, 1943, Serial No. 510,162
2 Claims. (Cl. 60—52)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A hydraulic system for actuating a reciprocable motor comprising, a pressure source, a motor having a reciprocable member, separate conduits for conducting pressure to opposite sides of said reciprocable member, valve means in one of said conduits for controlling the application of pressure to one side of said reciprocable member, said valve means being mechanically linked to the reciprocable member so as to be tripped by arrival of the reciprocable member at one extremity of its movement, a separate by-pass valve for venting excess pressures arising upon interruption of the reciprocable member during the portion of its travel between the limits of its movement, mechanical means for preventing opening of the by-pass valve, and hydraulic means for preventing opening of the by-pass valve.

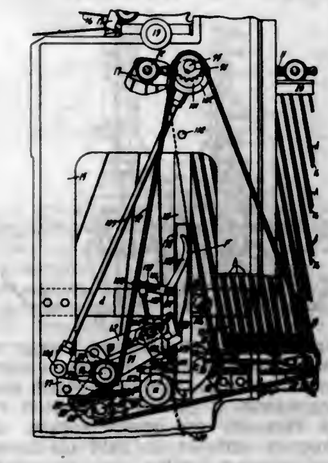
2,593,413
FATTY ACID-ALKOXYPOLYGLYCOL ALIPHATIC AMINE COMBINATIONS USEFUL AS TEXTILE SURFACE AGENTS
Alton A. Cook, Glen Ridge, and Ira Sapers, Newark, N. J., assignors to Arkansas Company, Inc., Newark, N. J., a corporation of New York
No Drawing. Application December 20, 1949, Serial No. 134,150
10 Claims. (Cl. 260—404)

1. A process of making a surface active agent which comprises successively combining a high molecular weight fatty acid having 10 to 18 carbon atoms with an alkoxypolyglycol and with an aliphatic saturated amine selected from the group consisting of primary and secondary water-soluble aliphatic amines at a temperature under 135° C.

2,593,414
PROCESS FOR MIXING AND COPRECIPITATING A POLYSULFONE RESIN LATEX WITH ANOTHER LATEX
Willie W. Crouch, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application October 21, 1948, Serial No. 55,830
14 Claims. (Cl. 260—45.5)

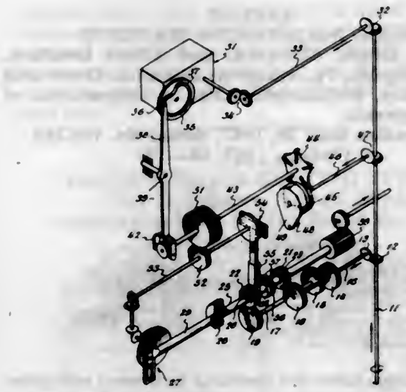
10. A method for producing a modified heteropolymeric resinous material which comprises interreacting in a first reaction system sulfur dioxide and an unsaturated organic compound which reacts with sulfur dioxide to form a heteropolymer while incorporated in an aqueous emulsion, said first reaction system having a pH less than 7 after said interreaction; polymerizing in a second reaction system a polymerizable monomeric compound having an active vinyl group attached thereto while incorporated in an aqueous emulsion, said second reaction system having a pH greater than 7 after said polymerization; increasing the pH of the reaction mixture from said first reaction system from a pH of less than 7 to a pH greater than 7 so as to match the pH of the reaction mixture from said second reaction system mixing a resulting reaction mixture from said first and from said second reaction systems in the proportions such that the resulting mixture will contain from 1 to 40 parts by weight of polymer present in said second reaction mixture per 100 parts by weight of polymer present in the first reaction mixture, and coprecipitating a modified heteropolymeric resinous material from the resulting mixture.

2,593,415
SHEET EXTRACTOR DEVICE
Roy E. Cummings, Arlington, Mass., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application November 7, 1946, Serial No. 708,353
10 Claims. (Cl. 198—20)



10. In an oven conveyor for transferring coated and lithographed sheets through a treating operation, the combination of a conveyor member having sheet carrying wickets, hook elements located at the bottom of and carried by said wickets for holding sheets in separated position during transfer, oscillatory plates located in the path of travel of the wickets and having pockets for receiving each wicket and for separating it from an adjacent wicket, lift arms located below said separated wicket for engaging the lower edge of the sheet carried by the wicket to disengage said sheet from its hook element, release fingers mounted on said lift arms and movable therewith, and means for sliding said fingers along said lift arms to push the disengaged sheet off of the arms and clear of said wicket hooks to insure dropping of the sheet from said wicket.

2,593,416
AUTOMATIC REVERSING MECHANISM
Edward Dawson, New York, N. Y., assignor to The Sperry Corporation, a corporation of Delaware
Application July 7, 1949, Serial No. 103,465
11 Claims. (Cl. 74—339)

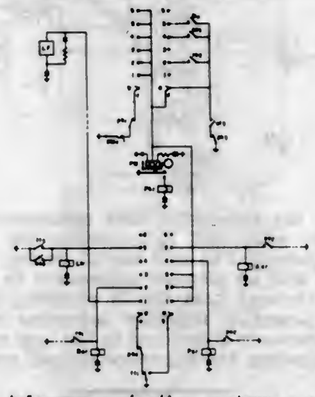


1. In a reversing mechanism, an input shaft, a driven shaft having a pair of contra-rotating gears thereon driven by said input shaft, a third gear on said driven shaft, a gear rack meshing with said third gear, each of said gears having a keyway, said driven shaft having a key and being axially positionable to selectively engage one of said pair of gears, a scotch yoke secured to one end of said gear rack to provide same with reciprocating motion, means for initiating said reciprocating motion to provide said third gear with a rotational speed equal to that of the engaged gear, and means for causing said positionable key to be moved from engagement with said engaged gear to engagement with said third gear.

2,593,417
POLYMERIZATION PROCESS
Gaetano F. D'Alelio, Pittsburgh, Pa., assignor to Koppers Company, Inc., a corporation of Delaware
No Drawing. Application September 24, 1949, Serial No. 117,721
28 Claims. (Cl. 260—669)

1. A process comprising the polymerization of a polymerizable mass comprising at least one polymerizable ethylenic monomer in the presence of an aryl resin containing a plurality of sulfonic acid groups.

2,593,418
DISCRIMINATION OF SUBSCRIBER'S LINE CONDITION
Martinus den Hertog, Antwerp, Belgium, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 4, 1947, Serial No. 726,359
In the Netherlands September 25, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires September 25, 1963
17 Claims. (Cl. 179—18)

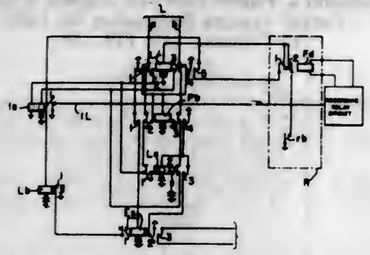


1. In a telecommunication system, a switching exchange, a plurality of lines of different service classifications to be automatically interconnected through said exchange each line having an individual test conductor whose potential determines the line classification and its busy or idle condition, a source of service classification potential connected to the line test conductors in accordance with their respective service classifications, automatic means including initial and final automatic switches for progressively extending a connection from a calling line to a called line, register means at the exchange and operated to successive settings correlated with the progress of said connection being extended and including test means which is discriminatingly responsive to the various service classifications of calling and called lines, means associated with the register and effective for different settings of said register for applying correspondingly different potentials to said test means, means including certain of said switches for connecting said test means with the test conductor of the calling line for certain register settings and for connecting said test means with the test conductor of the called line for other register setting, and means for rendering said test means selectively responsive when a predetermined potential relationship exists between the said individual potential on a test conductor and the said corresponding potential applied from the register to said test means.

2,593,419
CLASS OF LINE INDICATION IN TELEPHONE SYSTEMS
Martinus den Hertog and Amedie Charles Berden, Antwerp, Belgium, assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application May 22, 1947, Serial No. 749,850
In Great Britain May 24, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires May 24, 1959
16 Claims. (Cl. 179—18)

1. An electric signaling system, comprising a

direct current signal loop, means at a transmitting station for transmitting signals over said loop by successive brief interruptions of the loop, means at a receiving station responsive to said interruptions for receiving said signals, a unidirectional conductor, controllable means for connecting the conductor across the loop in a direction to oppose the passage of normal signaling current



through the conductor, said conductor forming a circuit with said loop, means for applying reverse potential to said circuit during an interruption, and an element responsive to a flow of current through said circuit resulting from said applied potential, said flow occurring only when the conductor is connected to the loop and therefore indicating the existence of said connection.

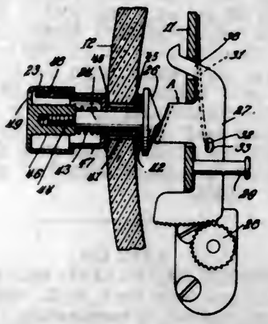
2,593,420
VARIABLE AREA NOZZLE
Walter S. Diehl, United States Navy
Application May 28, 1946, Serial No. 672,904
3 Claims. (Cl. 60—35.55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an exhaust nozzle assembly of a jet propulsion engine, a variable area exhaust nozzle comprising a walled conduit of flexible sheet metal for the conduction of exhaust gases from said engine to atmosphere, a pair of inwardly hinged gores in opposite sides of the wall of said conduit, said gores biased to be normally in unflattened condition, and conduit - collapsing means including a frame around said conduit and screw-threaded means associated with said frame operable at substantially a right angle to the plane of said gores to collapse said conduit by flattening said gores thereby reducing the cross-sectional area of said nozzle.

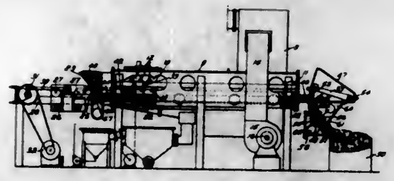
2,593,421
CHART WINDING MECHANISM
William J. Dorsam, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application October 11, 1945, Serial No. 621,726
5 Claims. (Cl. 242—55)

4. A ratchet device including a toothed wheel and actuating means therefor including a base and a toothed actuator including an operating portion to which force is applied approximately along a given line, a return spring applying force in the opposite direction between this line and the wheel and double-acting cam means beyond this line from the wheel and so disposed and co-acting with the base that the application of force along said line will first tilt the actuator and cam it toward the toothed wheel, and means for limiting the movement of the cam means so



that further application of force along said line will tilt the actuator about a part of the base and thereby actuate the toothed wheel.

2,593,422
WOOL DEGREASING MACHINE
Harry S. Drum, Abington, and Alfred Hopkins, Philadelphia, Pa., assignors to Smith, Drum and Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 20, 1947, Serial No. 749,268
4 Claims. (Cl. 68—18)

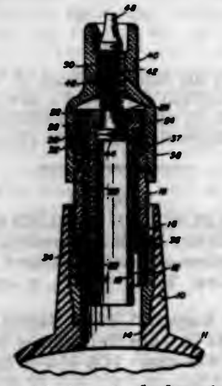


1. An apparatus for treating raw wool comprising a casing forming a solvent chamber and a drying chamber, said solvent chamber having a charging inlet and said drying chamber having a discharge outlet, means for feeding loose wool fibers in the form of a mat from said inlet to said outlet, a conduit for conveying the discharged wool to a container, said conduit having a perforated inlet plate at one side and a perforated outlet plate at the opposite side, means for circulating fresh air through the wool from said inlet plate to the outlet plate, and means for conveying the air from said outlet plate to the wool entering said charging inlet, whereby reclaimed solvent vapor is utilized.

2,593,423
SAFETY VALVE
Gilbert O. Eastman, San Antonio, Tex.
Application September 29, 1947, Serial No. 776,721
1 Claim. (Cl. 137—69.5)

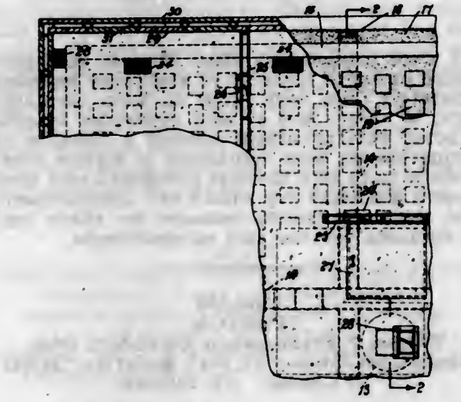
An inflation-relief valve comprising an elongated sleeve having inner and outer end portions, an internal rib at the outer end portion of said sleeve, said sleeve having a longitudinal internal groove at its inner end, a tube slidably received in said sleeve and including inner and outer ends, the inner end of said sleeve being externally threaded, an abutment nut threaded on the inner end of said sleeve and including a radially projecting lug slidably received in said groove, a coil spring embracing said tube and biased between said nut and said rib, said tube having a flanged

head overlying the outer end of said sleeve, a gasket about the outer end of said tube beneath said flanged head, said spring urging said flange head and said gasket toward the outer end of said sleeve, said flanged head including an internal valve seat, a valve stem slidably carried by the



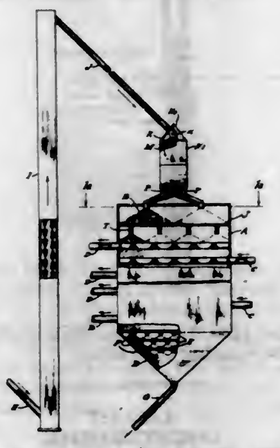
flanged head, said stem including inner and outer enlarged end portions, and a spring member embracing the stem and biased between the outer end portion of said stem and the flanged head to urge the inner end portion of said stem against said seat.

2,593,424
HOLLOW FLOOR HEATING SYSTEM
Fay H. Edgerly, Detroit, Mich.
Application April 9, 1949, Serial No. 86,561
3 Claims. (Cl. 98—31)



1. In a building structure, an outer wall, a floor extending to said wall, a sub-floor spaced below said floor, a divider wall between said floor and said sub-floor, said divider wall being spaced from and substantially parallel to said outer wall thereby defining a central heat space throughout the major area of the floor and a surrounding narrow marginal cool air channel, air outlet means in the floor opening into said cool air channel, hot air inlet means in said floor opening into said central heat space inwardly of the divider wall, a pit structure beneath said floor and remote from said outer wall, means for causing an air flow from said pit structure through the heat space between said floors, and cool air return ducts extending from said cool air channel to said pit.

2,593,425
CLASSIFYING SYSTEM FOR PIECES OF SOLID MATERIAL HAVING UNEQUAL SIZE
James E. Evans, Wallingford, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application March 14, 1947, Serial No. 734,681
7 Claims. (Cl. 259—180)

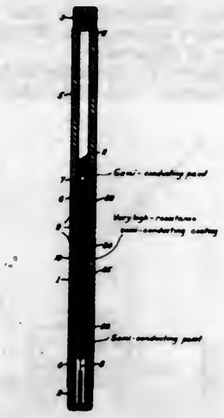


1. In a system of the character described, a group of pipes, a grate defining a plurality of side-by-side passages arranged in rows extending in right-angular relation, and means for connecting to the respective pipes groups of said passages extending in one direction along said grate, the passages in each of a plurality of groups thereof being spaced in the same relation, a plurality of the groups of passages in adjacent rows thereof being staggered uniformly with respect to each other.

2,593,426
HIGH-VOLTAGE POWER FUSE AND THE LIKE
Harold H. Fahnoe, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 12, 1948, Serial No. 59,712
21 Claims. (Cl. 200—120)

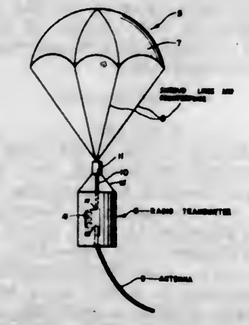
1. A tube-type circuit-interrupting device adapted to operate in a line at a voltage high enough to make corona a problem, said device comprising an insulating tube having two conducting terminal members and having internal circuit-interrupting means within the tube for normally conducting current from end to end through the tube from terminal to terminal, said circuit-interrupting means being of a type which responds to abnormal conditions by producing a progressively lengthening circuit-interruption gap within the tube, whereby a progressively lengthened arc is produced within the tube until the arc is interrupted; said device being characterized by having outside shielding-means extending along the outside surface of said insulating tube from each terminal, in such manner that, under normal, non-interrupted conditions, the electrostatically effective outer diameter of the current-conducting path within the tube is large enough to prevent corona-troubles at the surface of said internal circuit-interrupting means at the operating-voltage of the device.

said outside shielding-means having such a high order of terminal-to-terminal resistance as to



draw an acceptably low leakage-current after a circuit-interrupting operation.

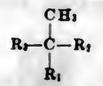
2,593,427
COUNTERPOISE
John V. Fill, Miami, Fla., assignor to the United States of America as represented by the Secretary of War
Application January 23, 1945, Serial No. 574,161
3 Claims. (Cl. 250—17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination with aerial suspension means having depending shroud lines for supporting a radio transmitter, an antenna counterpoise system comprising: electrical conductors spirally wound about said shroud lines and a terminal lug electrically connected to each of said conductors and to said radio transmitter.

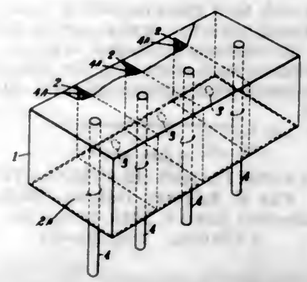
2,593,428
USE OF DIPHENYLOL PROPANE IN ESTERIFICATION AND ESTER PRODUCTS
Wilbur F. Fischer, Roselle Park, Frederick Knoth, Jr., Sayreville, and Raymond G. Newberg, Roselle Park, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application June 21, 1950, Serial No. 169,540
16 Claims. (Cl. 260—475)

1. In a process for the preparation of an organic ester from an organic carboxylic acid and a branched saturated aliphatic monohydric unsubstituted alcohol the improvement which comprises adding to the esterification mixture a minor proportion of a bisphenol compound having the formula



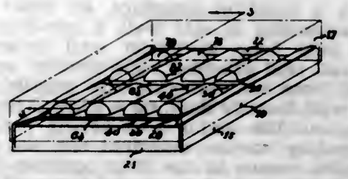
wherein R_1 is an alkyl radical of 1 to 4 carbon atoms and wherein R_2 and R_3 are parahydroxyphenyl groups, in an amount sufficient to stabilize said ester against deteriorative changes.

2,593,429
GAS FILLED ELECTRIC DISCHARGE DEVICE
Christopher Henry Foulkes, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application August 7, 1947, Serial No. 766,910
In Great Britain September 30, 1946
10 Claims. (Cl. 313—188)



1. Cold cathode gas filled electron discharge device having a plurality of electrodes mounted separately from each other to form discharge gaps, in which one of said electrodes is constructed with partitions forming a plurality of compartments each containing a further electrode to form with the first mentioned said electrode a discharge gap within said compartment, said partitions having passages for either ions or electrons between said compartments.

2,593,430
CARTON
William P. Frankenstein, Cincinnati, Ohio
Application January 27, 1947, Serial No. 724,543
20 Claims. (Cl. 229—16)



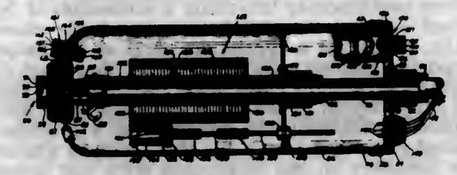
1. In a package of the class described the combination of a carton proper including a bottom bounded by walls, each wall of spaced apart wall members with a top wall joining the same thereby affording cushioning and shock absorbing carton walls, a lid or cover including a covering panel, depending walls from the covering panel for embracing the carton walls with said lid or cover walls of greater depth than the carton walls,

whereby the covering panel is upwardly of the carton walls, means associated with said lid or cover covering panel and walls for engagement with the carton walls top walls for positioning the covering panel above the carton walls, and a fragile article suspending tray within the carton walls extending transversely of the carton between the carton walls and located intermediate the bottom of the carton proper and the covering panel of the lid or cover when said lid or cover is placed on the carton proper, said fragile article suspending tray comprising a main panel, supports depending from opposed sides of the main panel to the carton proper bottom, and means integral with said main panel for suspending a fragile article with its axis substantially in the plane of the main panel and supporting the fragile article above the bottom of the carton proper and below the covering panel of the lid or cover.

2,593,431
REAGENT CONDITIONING FOR ELECTROSTATIC SEPARATION OF MINERALS
Foster Fraas, Riverdale, Md., assignor to the United States of America as represented by the Secretary of the Department of the Interior
No Drawing. Application January 16, 1948, Serial No. 2,800
2 Claims. (Cl. 209—9)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

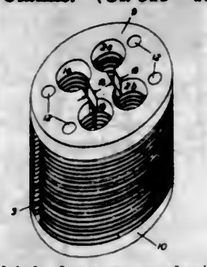
1. In a process for the electrostatic separation of the liberated and deslimed constituents of a mineral composite of a type resistant to chemical attack and of the class consisting of kyanite-zircon, sillimanite-quartz, and kyanite-quartz, which involves electrostatic separation of the composite constituents, the steps prior to said separation which comprise heating and drying said composite and then treating said hot dry composite with about 0.05 to 5 pounds of an organic anionic conditioning agent per ton of composite, said conditioning agent being a carboxylic acid having a hydrocarbon appendage, whereby at least one of said composite constituents is selectively filmed with said conditioning agent and said composite constituents are thereby rendered more amenable to electrostatic separation.

2,593,432
AUTOMATICALLY OPERATED RADIO BUOY
Raymond L. Freas, Conshohocken, Pa.
Application June 18, 1948, Serial No. 33,835
28 Claims. (Cl. 250—17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a signalling device, a radio transmitter including an antenna, a tube supporting the antenna, a buoyancy chamber attached to the tube at one end thereof, a support attached to the tube at the other end thereof and carrying components of the transmitter that embody the major portion of its mass, the support with the transmitter components carried thereby constituting a ballast mass.

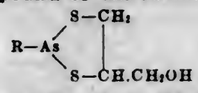
2,593,433
ULTRAHIGH-FREQUENCY OSCILLATION GENERATOR
John Heaver Fremlin and John Foster, London, England, assignors, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 9, 1942, Serial No. 457,789
In Great Britain September 19, 1941
12 Claims. (Cl. 315—40)



9. An ultra high frequency electron discharge device comprising a laminated resonator block, the laminae of the block comprising thin metal plates having at least one round hole and a communicating narrow slot formed therein, the laminae being stacked with the holes and slots in registry to define a cylindrical bore and an elongated narrow cavity extending longitudinally of the block.

2,593,434
PROPYLENE GLYCOL SOLUTION OF ARSENIC MEDICAMENTS
Ernst A. H. Friedheim, New York, N. Y.
No Drawing. Application February 19, 1947, Serial No. 729,663
5 Claims. (Cl. 167—69)

1. A therapeutically active composition, comprising a compound of the formula

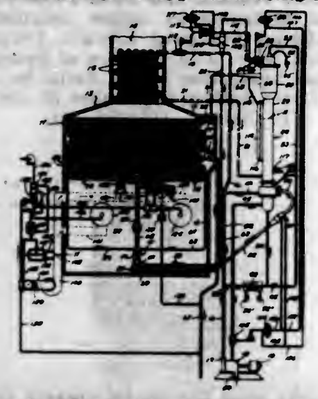


wherein R is an aryl radical, dissolved in propylene glycol.

2,593,435
SUPERHEATER CONTROL
Martin Frisch, New York, N. Y., assignor to Foster Wheeler Corporation, New York, N. Y., a corporation of New York
Original application November 12, 1941, Serial No. 418,650. Divided and this application August 2, 1946, Serial No. 688,094
6 Claims. (Cl. 122—479)

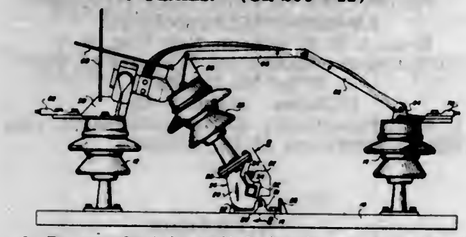
1. A separately fired vapor superheater comprising a setting, a furnace in the setting, means for firing the furnace, a superheater in the furnace, said superheater having separate sections, each section of the superheater comprising tubular members forming paths of flow separate from one another, the tubular members of one section of the superheater extending from an inlet disposed at the lower portion of the setting and at one side of the superheater furnace, upwardly along said one side of the superheated furnace thence transversely of said furnace in superposed, spaced substantially horizontally extending and connected rows above the superheater furnace to an outlet at the opposite side of the furnace, the tubular members of the other section of the superheater extending from said inlet to the side of the superheater furnace opposite said one side, upwardly along said opposite side thence transverse-

ly of said furnace and within said space between the tubular members of said one section, the tubular members of said other section being disposed in



superposed, spaced substantially horizontally extending and connected rows and extending to and into communication with said outlet.

2,593,436
ELECTRIC ROCKER SWITCH
William H. Gilliland, Birmingham, Ala., assignor to Usco Power Equipment Corp., Birmingham, Ala., a corporation of Alabama
Application December 16, 1949, Serial No. 133,408
7 Claims. (Cl. 200—48)

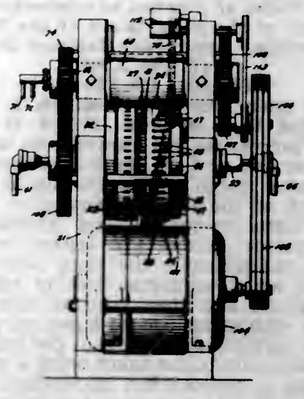


1. In an electric switch having a movable insulator unit carrying a current conducting element for separable engagement with a relatively stationary conducting element; a support operatively mounting said insulator unit for movement in an arcuate path to and from circuit closing position comprising a stationary base, a pivot pin mounted thereon, a supporting member fixed to said insulator unit and mounted on said pin to rock about the axis thereof, an operating bar for said insulator unit, a member to clampingly secure said bar against said supporting member, said clamping and supporting members having respective formed parts coacting to provide a rockable fulcrum for said clamping member on the supporting member between said pivot pin and the operating bar, and an adjustable connection between said supporting and clamping members.

2,593,437
MANUFACTURE OF UNSATURATED ALDEHYDES
Eric Paul Goodings, Chadderton, and David James Hadley, Epsom Downs, England, assignors to The Distillers Company Limited, Edinburgh, Scotland, a British company
No Drawing. Application August 12, 1949, Serial No. 110,028. In Great Britain December 23, 1946
12 Claims. (Cl. 260—604)

1. Process for the manufacture of an unsaturated aldehyde selected from the group consisting of acrolein and alpha-methacrolein by the catalytic oxidation of the corresponding olefines propylene and isobutene respectively which comprises passing the olefine with molecular oxygen containing gases at temperatures between 200° and 400° C. in the presence of elementary selenium in the reaction zone over a contact material containing at least one member selected from the group consisting of copper metal, cuprous oxide and cupric oxide and recovering the unsaturated aldehyde from the reaction mixture.

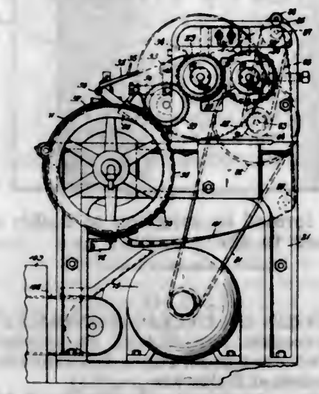
2,593,438
METHOD AND MEANS FOR MOLDING ARTICLES
Henry Z. Gora, Stratford, Conn., assignor to The Gora-Lee Corporation, Stratford, Conn., a corporation of Connecticut
Application August 19, 1948, Serial No. 45,051
13 Claims. (Cl. 18—20)



1. A molding machine comprising a movable die support, a series of cooperating molding dies mounted on said support for movement therewith, means located between the paths of movement of said cooperating dies for supplying lubricant thereto, including a lubricant delivering nozzle, means for directing an air stream across said nozzle for collecting lubricant therefrom, and means for dividing the lubricant carrying air stream and directing it to said cooperating dies to deposit lubricant therein.

5. The herein described method which comprises continuously travelling a succession of opposed aligned die members in a single closed path; preparing a continuous strip of plasticized moldable material of greater width than said die members; guiding said strip tangentially into an arc of travel of the die members and between opposed advancing die members at a predetermined place in said travel; there closing aligned die members on the interposed strip and bringing the die members axially together to cause them to pierce through the strip between its side edges and blank-out a piece of desired shape and size from the strip; maintaining the die members closed for a predetermined travel thereof with the strip impaled on the closed die members and travelling therewith and with the blanked-out piece contained within the die members; thereafter opening the die members; and guiding the blanked-out strip from between said die members to release the strip therefrom.

2,593,439
MACHINE AND METHOD FOR MANUFACTURING CLOSURES
Henry Z. Gora, Stratford, Conn., assignor, by mesne assignments, to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application October 20, 1948, Serial No. 55,508
29 Claims. (Cl. 18—5)



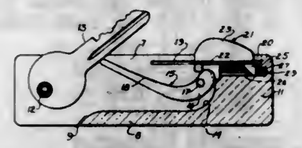
1. A machine comprising means for moving a series of closure members along a predetermined path, means for guiding a prepared strip of liner-forming material along a path juxtaposed to the path of said closure members, means including a series of successively operated punches travelling with substantially constant speed in a closed circular path, means for operating said punches for successively cutting liner blanks from said strip during movement thereof and means for operating said punches for depositing said blanks in successive closure members.

17. The method of providing closure members with molded gaskets, comprising continuously moving successive closure members through a gasket applying zone, guiding a prepared strip of moldable gasket-forming material and causing said strip to move at the same speed as said closure members in the same direction and along a path through said zone adjacent thereto, continuously moving a succession of punch and die members along the path of and in synchronism with the movement of the closures, operating said punch and die members seriatim to cut successive gasket blanks from said strip during movement thereof and deposit successive blanks in said closure members under pressure sufficient to mold said blanks to form gaskets in said members during movement thereof through said zone.

2,593,440
MANUFACTURE OF CARBOXYL COMPOUNDS
Hugh J. Hagemeyer, Jr., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application April 22, 1948, Serial No. 22,714
6 Claims. (Cl. 260—533)

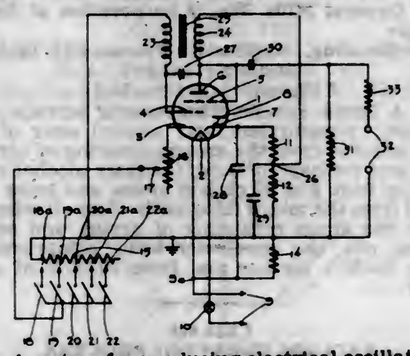
1. The catalytic process for the preparation of lower aliphatic products including lower aliphatic acids and anhydrides of lower aliphatic acids which comprises reacting a lower aliphatic organic compound from the group consisting of lower aliphatic olefins, ethers, esters, and alcohols with carbon monoxide and at least one component from the group consisting of water and lower aliphatic acids, said reaction being carried out in the presence of an amount of a three-component catalyst, the weight of which three-component catalyst does not exceed 20% of the weight of the lower aliphatic product produced, the reaction being carried out at a temperature between 150° C. and 400° C. and at a pressure between 40 atmospheres and 700 atmospheres, the characterizing features of which comprise conducting such reaction in the presence of a three-component catalyst generated from a three-component mixture which comprises (1) a halide of a carbonyl-forming metal from the eighth group of the periodic system, (2) an acceptor selected from the group consisting of nickel and cobalt and (3) a promoter comprising an alkali metal halide.

2,593,441
KEY HOLDER
John I. Hager and Eugene W. Samford, Montebello, Calif.
Application December 2, 1947, Serial No. 789,204
4 Claims. (Cl. 70—456)



1. A key holder comprising a case open along one side edge thereof, a pivot pin for a key at one end of the case, an ejector lever in said case, a pivot for said ejecter at the other end of the case, a lever actuating member slidable on the open edge of said case at said other end, a longitudinal arm on said lever underlying the key, an upwardly extending arm on said lever extending above the pivot thereof, spaced apart depending lugs on said lever actuating member engageable on opposite sides of said upwardly extending lever arm for rocking said lever, and spring means pressing said lever actuating member for retracting said lever within said case.

2,593,442
ELECTRIC ORGAN
William Hakkarinen, Washington, D. C.
Application December 17, 1947, Serial No. 792,164
10 Claims. (Cl. 84—1.26)



1. A system for producing electrical oscillations comprising an electron tube including at least a cathode, a control grid, and an anode, an input circuit interconnecting said cathode and control grid, an output circuit interconnecting said anode and cathode, means regeneratively coupling said circuits for the production of oscillations, a re-

sistance connected in common to said input and output circuits, a multiplicity of progressively arranged taps on said resistance terminating in contacts, keys depressible to contacting relation with said contacts and connected in a path common to said input and output circuits for effecting step by step loading of both said input and output circuits and an additional resistance connected in said input circuit and selectively adjustable for variably loading said input circuit.

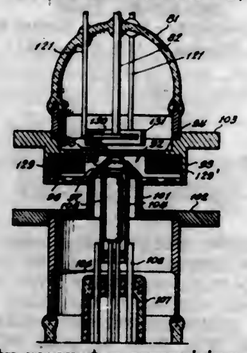
2,593,443

HIGH-FREQUENCY TUBE STRUCTURE

Arthur E. Harrison, Princeton, N. J., assignor to The Sperry Corporation, a corporation of Delaware

Original application January 29, 1942, Serial No. 428,682. Divided and this application December 14, 1946, Serial No. 716,320

8 Claims. (Cl. 315—5)



1. A cavity resonator comprising a conductive cylindrical casing portion forming an enlarged portion of a resonant chamber, body means thereon forming a constricted portion of said resonant chamber, said portions being located adjacent one another forming said resonant chamber, and apertured end walls connected to the outer ends of said casing portion and said body means, one of said end walls being flexible to facilitate the adjustment of the resonant frequency of said resonant chamber.

2,593,444

FATTY ACRYLATE-STYRENE COPOLYMERS

Stuart A. Harrison, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware

No Drawing. Application February 18, 1950, Serial No. 145,093

6 Claims. (Cl. 260—86.7)

1. A liquid, soluble copolymer of styrene and a higher unsaturated fatty alcohol ester of an acid selected from the group consisting of acrylic acid and methacrylic acid, the fatty alcohol containing from 8 to 22 carbon atoms and being derived from the mixed fatty acids of an oil selected from the group consisting of drying and semi-drying oils, the copolymer being comprised of from 50–80% styrene and from 20–50% of said ester.

2,593,445

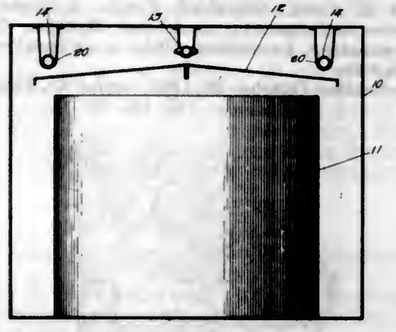
VACUUM TREATING PROCESS

Arnold H. Heineman, Chicago, Ill., assignor to Guardite Corporation, Wilmington, Del., a corporation of Delaware

Application November 14, 1947, Serial No. 786,042

6 Claims. (Cl. 131—140)

1. The method of desuperheating steam which comprises introducing substantially saturated steam into a high vacuum, and into head-on collision with a stream of fine particles of water



and steam formed by injection of highly superheated water to the vacuum.

2,593,446

PRODUCTION OF CYCLIC MONOOLEFINS

Heinz Heinemann, Drexel Hill, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 3, 1949, Serial No. 114,067

18 Claims. (Cl. 260—666)

1. In the dehydrogenation of methylcyclopentane in contact with dehydrogenation catalyst for production of high yields of monoolefins, the improvement which comprises reducing coke formation during the process by effecting the dehydrogenation in the presence of about 0.5 to 4% of an added aromatic hydrocarbon by weight of said methylcyclopentane, said added amount of aromatic hydrocarbons being present exclusive of any aromatic hydrocarbons formed in the process.

2,593,447

METHOD AND COMPOSITION FOR TREATING ALUMINUM AND ALUMINUM ALLOYS

Frederick Harold Hesch, Spokane, Wash., assignor to The Permanente Metals Corporation, Oakland, Calif., a corporation of Delaware

No Drawing. Application June 27, 1949, Serial No. 101,694

6 Claims. (Cl. 41—42)

4. An aqueous solution for chemically brightening aluminum and aluminum alloys consisting essentially of about .5 to 5% nitric acid, about .01 to 0.5% hydrofluoric acid, about .01 to 0.5% ammonia, about .01 to 1% chromic acid (calculated as CrO_3), by weight.

2,593,448

METHOD AND COMPOSITION FOR TREATING ALUMINUM AND ALUMINUM ALLOYS

Frederick H. Hesch, Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, a corporation of Delaware

No Drawing. Application July 25, 1949, Serial No. 106,742

18 Claims. (Cl. 41—42)

1. A composition for the chemical brightening of aluminum and aluminum alloys comprising an aqueous acid solution containing hydrogen, nitrate, fluoride, and chromate ions and the cations of a metal more electropositive than aluminum in concentration corresponding to that produced by a solution containing by weight from about .5 to about 6% nitric acid, about .01 to about 0.5% hydrofluoric acid, about 0.1 to about 1.5% chromic acid anhydride, and from about .01 to about 0.6% of a soluble salt of the selected metal.

13. A process for the chemical brightening of aluminum and aluminum alloys which comprises immersing the metal in a heated aqueous bath containing by weight about .5 to about 6% nitric acid, about 0.01 to about 0.5% hydrofluoric acid, about 0.1 to about 0.6% of a water soluble salt of a metal electropositive to hydrogen, and about 0.1 to about 1.5% chromic acid (calculated as CrO_3) for from about one-half to about ten minutes, maintaining the temperature of the bath at about 190° F. to the boiling point, and thereafter water rinsing the thus treated metal, the presence of chromate ion preventing deposition of metallic smut on the aluminum and aluminum alloys.

2,593,449

METHOD AND COMPOSITION FOR TREATING ALUMINUM AND ALUMINUM ALLOYS

Frederick Harold Hesch, Spokane, Wash., assignor to Kaiser Aluminum & Chemical Corporation, Oakland, Calif., a corporation of Delaware

No Drawing. Application October 26, 1950, Serial No. 192,373

15 Claims. (Cl. 41—42)

11. A process for the chemical brightening of aluminum and aluminum alloys which comprises treating the metal in an aqueous acid bath containing hydrogen, nitrate, fluoride, ammonium and phosphate ions in concentration corresponding to that produced by a solution containing from about .5 to 5% nitric acid, about .01 to 0.5% hydrofluoric acid, about .01 to 0.5% ammonia and about .05 to 1% phosphoric acid by weight, and maintaining the solution at a temperature of about 100° F. to the boiling point.

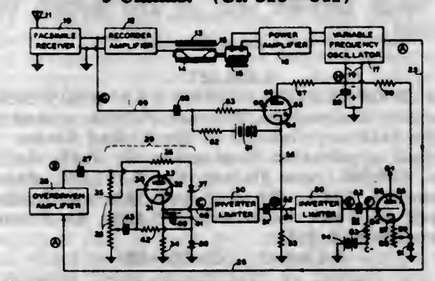
2,593,450

ELECTRONIC SYNCHRONIZING SYSTEM

Frank A. Hester, New York, N. Y., assignor to Faximile, Inc., New York, N. Y., a corporation of Delaware

Application July 28, 1949, Serial No. 107,161

9 Claims. (Cl. 318—341)



6. In a system for synchronizing the speed of a synchronous motor with received periodic synchronizing pulses, the combination of: a variable-frequency oscillator having a frequency-determining storage capacitor, a power amplifier receptive to the output of the oscillator and operative to supply power to drive the synchronous motor, a counter-gate operative responsively to the oscillator to generate a local pulse during every nth cycle of the oscillator, means responsive to the leading edge of said local pulse to discharge the frequency-determining capacitor, and means responsive to the local pulse and the received synchronizing pulse to recharge the capacitor to a voltage which is a function of the overlap time of said pulses.

2,593,451

DEHYDROCHLORINATION OF POLYCHLOROETHANES

Howard W. Hill, Concord, and Eldred L. Dance, Pittsburg, Calif., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Delaware

No Drawing. Application June 25, 1947, Serial No. 757,962

3 Claims. (Cl. 260—654)

1. A method of dehydrochlorinating a polychlorinated ethane compound of the class consisting of 1,1,1-trichloroethane and1,1,1,2-tetrachloroethane, which comprises heating the compound in liquid phase in the presence of a catalytic amount of anhydrous ferric chloride at a temperature sufficient to vaporise the dehydrochlorinated compound as it is formed.

2,593,452

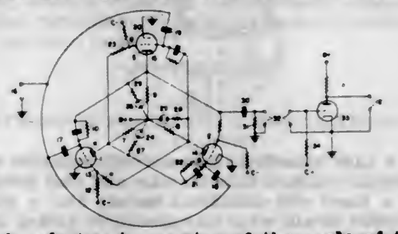
SCALE-OF-THREE ELECTRONIC SWITCH

Conrad H. Hoeppner, Washington, D. C.

Application October 25, 1945, Serial No. 624,630

10 Claims. (Cl. 250—27)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An electronic counter of the scale-of-three type comprising, three vacuum tubes, means successively connecting the output of each of said tubes to the input of one of the other of said tubes so as to form a closed ring of cascaded amplifier tubes, means retrogressively connecting the output of each of said tubes to the input of one of the other of said tubes so as to form a closed ring of cascaded amplifier tubes in a sense opposite to that formed by said successive connecting means, said successive connecting means having greater time constants than said retrogressive connecting means, and means for applying input pulses from an external source to said three tubes in parallel.

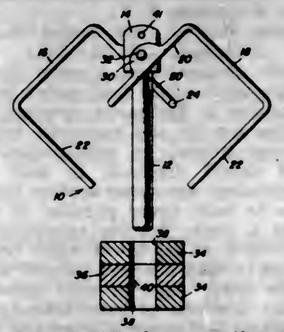
2,593,453

COUPLING PIN

James V. Honeycutt, John Platis, and Joseph A. Marchand, Corpus Christi, Tex.

Application April 20, 1949, Serial No. 88,569

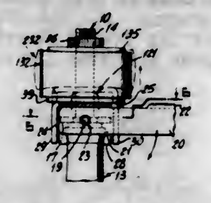
2 Claims. (Cl. 280—33.15)



1. In a tongue and fork connection, a coupling pin, said coupling pin comprising a shank in-

sertable through said tongue and fork, said shank having a head portion bearing upon said fork, and first and second U-shaped latch members having upper and lower leg portions, the upper leg portions of said members being pivoted intermediate their ends to opposite sides of said head portion and resting upon the fork, said upper leg portions having lateral projections bearing upon said fork, said latch members cooperating with each other to completely embrace said tongue and fork connection.

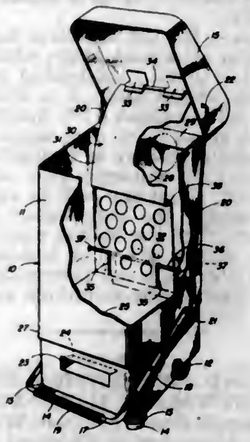
2,593,454
HOSE ATTACHMENT FOR FAUCET OUTLETS AND THE LIKE
Charles L. Hyser, Bronxville, N. Y., assignor to Orajet Corporation, Wilmington, Del., a corporation of Delaware
Application August 17, 1949, Serial No. 110,730
6 Claims. (Cl. 285—165)



1. A hose attaching device comprising, in combination, a nipple tube having one end provided with a fixed end abutment means and a sliding abutment means with an expansible gasket sleeve mounted therebetween about said tube, a base plate mounted on said tube in a relatively fixed position and having diametrically opposed pivot pins the end of each which is of certain size, a bifurcated cam lever having laterally spaced cam elements mounted on opposite sides of said tube behind said sliding abutment means with each cam element provided with a bearing hole larger than the end of one of said pivot pins removably to receive the same for rotatable support thereby, and guard means mounted on said sliding abutment means at opposite sides thereof and located laterally beyond the outer ends of said pivot pins but sufficiently close thereto as to prevent lateral removal of said cam elements off from said pins.

2,593,455
SANITARY WASTE DISPOSAL BIN
George S. James, Woodside, N. Y., assignor, by mesne assignments, to Herbert Pensig and Nat Paterson, both of Brooklyn, N. Y., and George S. James, Woodside, N. Y.
Application May 27, 1950, Serial No. 164,831
8 Claims. (Cl. 23—252)

1. A waste disposal bin, a cover for said bin, and a hinge connecting said cover to said bin, said bin having a discharge opening in a wall thereof adjacent its top centered with respect to said cover hinge; in combination with an articulated shield disposed in said bin, said shield comprising: an upper section hinged at its upper edge to said cover parallel to said cover hinge; and a lower section substantially horizontally pivoted at its lower edge between opposite points in said bin and hinged at its upper edge to the lower edge of said upper section; whereby the sections of said articulated shield spread apart as said cover is lifted and said upper section prevents articles being deposited in said bin from entering the discharge opening of said bin, and the lower section of said shield prevents articles being deposited in said bin from



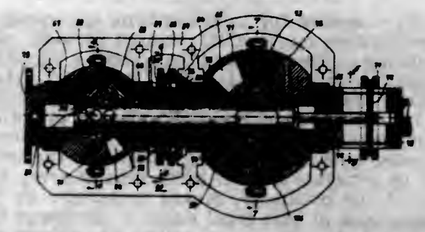
splashing the liquid therein out of its discharge opening.

2,593,456
FLEXIBLE KEY FORM FOR FORMING RECESSES IN CONCRETE STRUCTURES
Robert Maxwell James, Buffalo, N. Y.
Application March 29, 1949, Serial No. 84,962
13 Claims. (Cl. 25—118)



1. A flexible key form defining a disk having a plurality of spaced radial tongues and grooves on one face thereof, a circular lip of smaller diameter on the other face thereof and an integral suction cup portion interiorly of said lip portion, said key form defining a recessed hinge area in the locale between said lip and suction cup portions.

2,593,457
FLUID OPERATED POWER TRANSMITTER
Wincenty Jastrzebski, Warsaw, Poland; vested in the Attorney General of the United States
Original application September 22, 1942, Serial No. 459,260, now Patent No. 2,277,886, dated June 12, 1945. Divided and this application April 10, 1945, Serial No. 587,489. In France December 15, 1941
5 Claims. (Cl. 60—53)



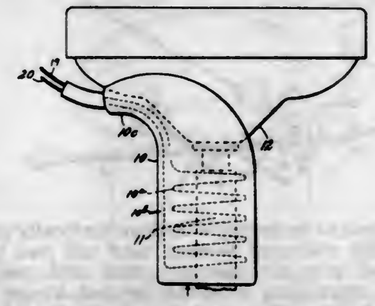
1. A power transmitter comprising in combination with a supporting frame, of a driving shaft and a driven shaft carried by said frame, two casings rigid with the respective shafts and defining a pair of fluid-containing chambers of unequal capacities having circular peripheral surfaces and substantially sinusoidally curved end surfaces, a dividing structure for each of said chambers comprising a circular divider revolubly fitted in each chamber in contact with the end surfaces and splitting the chamber into a pair of compartments and a partition carried by the divider and slidable between two extreme positions and serving in all intermediate positions to divide each compartment into subcompartments, said structure being formed with passages connecting the two subcompartments at one side of the partition and connecting the two subcompartments at the opposite of the partition, a hollow shaft rotatable with said dividers, and having ports therein, and said dividers being formed with channels each forming a communication between a passage and the interior of said shaft through a port, a valve movable lengthwise through said hollow shaft, said valve being formed with ports and passages for conducting fluid in one position of said valve from the subcompartments on one side of the partition of one chamber to the subcompartments on one side of the partition of the other chamber and from the subcompartments on the other side of the partition of the other chamber to the subcompartments on the other side of the partition of the other chamber and movable means for connecting said hollow shaft and dividers to said frame to hold the same stationary, whereby one casing and its dividing structure acts as a pump driven by the driving shaft and the other casing and its dividing structure as a motor driven by the pump.

2,593,458
METHOD OF PURIFYING SOLID SATURATED FATTY ACIDS CONTAINING UNSATURATED FREE FATTY ACIDS AND OTHER SOLUBLE IMPURITIES
Leslie G. Jenness, Memphis, Tenn., assignor to The Trendex Co., Memphis, Tenn., a corporation of Tennessee
Application July 7, 1948, Serial No. 37,463
22 Claims. (Cl. 260—419)

1. A method of treating a composition consisting essentially of fatty materials containing sufficient solid saturated free fatty acid so that it may be flaked and containing at least one of unsaturated free fatty acid and soluble impurities, said saturated acid and said impurities being in homogeneous mutual solution, which comprises forming discrete particles of said material, contacting said material with an organic volatile solvent for said unsaturated fatty acids and said impurities, said saturated fatty acids being substantially non-extractible by said solvent, the amount of said impurities relative to said saturated fatty acids being sufficient to allow penetration of said solvent into said particles to provide effective extraction and the amount of said impurities being insufficient to permit the remainder of said particles to be substantially broken down during said extraction, causing said solvent to penetrate into said particles and removing the resulting solution.

2,593,459
AUTOMATIC HEATING SYSTEM FOR DRINKING FOUNTAINS
Earl B. Johnson, Freehold, N. J.
Application July 13, 1948, Serial No. 38,459
24 Claims. (Cl. 219—39)

1. In combination, a fountain having a lower supply pipe; an electric fountain heater, said heater comprising a resistor coil formed and molded within a yieldable enclosure with said enclosure formed to fit substantially around a portion of the water supply pipe and extending upward and outward in contact with a portion of the lower part of said fountain; and including an automatic fountain heater control with said control connected in the electric feed line ahead of



and remote from said fountain heater, said automatic control comprising an enclosure, an electric heating element and a thermostatically controlled switch disposed within said enclosure, thereby providing a heated enclosure relative to said fountain heater.

2,593,460
METHOD OF PRODUCING METAL SHEETS OR PLATES
Wallace C. Johnson, St. Davids, Pa.
Application August 2, 1946, Serial No. 687,904
5 Claims. (Cl. 29—19)

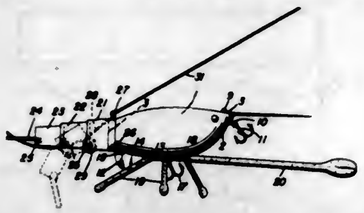


1. The method of producing metal plates or sheets from relatively rough and thick members such as ingots, which comprises: assembling a plurality of said members in a pack for rolling in which the confronting faces of the members are separated by a parting compound which will prevent welding adhesion of said confronting faces and which will chemically react at high rolling temperatures with the metallic oxide usually present on said confronting faces to form an abrasive; heating the pack to a high temperature sufficient to permit hot rolling of the pack and to effect the chemical reaction between the parting compound and the metallic oxide to form the abrasive; rolling the highly heated pack to reduce the members to the desired plate or sheet thickness, the abrasive between the confronting faces of said members being moved relative to said confronting faces during such rolling to effect a grinding and polishing action thereon; and separating the formed plates or sheets from the pack.

2,593,461
ARTIFICIAL CASTING LURE
Frank B. Jones, Pineville, La.
Application September 15, 1947, Serial No. 773,973
1 Claim. (Cl. 43—42.15)

In an artificial casting lure simulating a crayfish and having a body and a reduced substantially cylindrical portion at the rear end there-

of, a tail comprising a plurality of substantially U-shaped sections, the forwardmost section being secured to the reduced body portion, means for vertically pivoting adjacent sections together, and resilient means normally urging said sections upwardly into coaxial alignment, said re-



silient means including a tail pad vertically pivoted to the rearmost section, said tail pad being provided with an aperture, and said resilient means comprising a spring secured at one end to the body portion and looped about said first means and having a free end extending through the aperture provided in said tail pad.

2,593,462

METHOD OF TREATING EGG WHITES

Arthur M. Kaplan, Hyattsville, Md., and Mathilde Solowey, Washington, D. C., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application November 8, 1949, Serial No. 126,261

5 Claims. (Cl. 99—210)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process of eliminating sugar from egg white without detrimental action of deleterious micro-organisms, comprising fermenting the egg white with a concentrated microbial cell preparation of a micro-organism selected from the group consisting of Lactobacilli, Streptococci, and Aerobacter, said micro-organisms being in the non-proliferating stage during the fermentation.

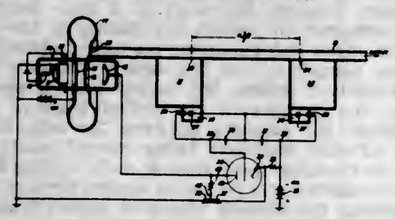
2,593,463

FREQUENCY STABILIZED MICROWAVE OSCILLATOR

John P. Kinzer, Ridgefield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 21, 1946, Serial No. 678,212

7 Claims. (Cl. 250—36)



1. In combination, a reflected electron beam oscillator comprising an electron tube having an oscillation output path and a reflection electrode, a pair of cavity resonators having frequencies above and below a desired oscillation frequency and coupled to the output path at points separated by an integral number of half-wavelengths at the desired frequency, means differentially connected to said resonators for deriving therefrom a resultant energy dependent upon the frequency of the oscillations impressed upon said output path and means connected to said differentially connected means and to the reflection electrode for applying to the reflection electrode a frequency control potential which varies with said resultant energy.

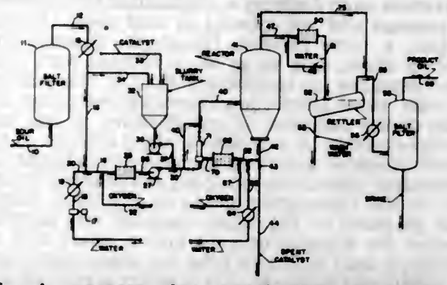
2,593,464

PROCESS FOR SWEETENING HYDROCARBON OILS

Jack H. Krause, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application December 27, 1950, Serial No. 202,969

8 Claims. (Cl. 196—29)



1. A process for sweetening mercaptan-containing hydrocarbon oils which comprises intimately contacting said oil, in the liquid state, with a catalyst consisting essentially of an inert adsorbent material, copper fluoride and at least about 8 weight per cent of water, at a temperature between about 190° F. and 230° F., and in the presence of free-oxygen.

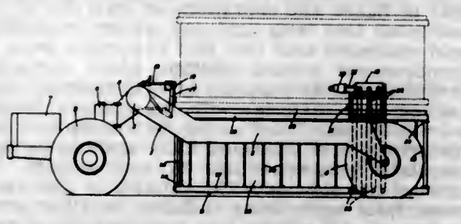
2,593,465

MOBILE FORM AND TRANSPORT FOR CAST STRUCTURES

Robert G. Le Tourneau, Peoria, Ill., assignor to R. G. LeTourneau, Inc., Stockton, Calif., a corporation of California

Application May 17, 1946, Serial No. 670,503

7 Claims. (Cl. 214—75)



1. A device for the transport of cast houses and the like, comprising a mobile frame which includes laterally spaced apart side beams, an end beam connecting the side beams at one end, wheels supporting the side and end beams, a pair of spaced apart vertically upstanding side lift plates disposed adjacent the insides of the side beams, vertically upstanding end lift plates connected to the ends of said side plates at substantially right angles thereto, block and tackle units supported on the side and end beams, each unit including cable runs extending from the unit between the side and end plates and the adjacent beams and connected in lifting relation to the bottoms of the plates, and means to operate the block and tackle units; each plate being offset outwardly along its upper edge to form an inwardly projecting lifting ledge.

2,593,466

VISCOSE SPINNING SOLUTION

Robert D. MacLaurin and William O. Israel, Lakewood, Ohio, assignors to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

No Drawing. Application July 16, 1948, Serial No. 39,194

13 Claims. (Cl. 106—165)

1. A viscose spinning solution having incorporated therein between about 0.01 and 0.2%, by weight, of a product formed by the reaction of at least about 12 moles of an alkylene oxide with one mean mole of a mixture of primary aliphatic amines selected from the group consisting of alkyl and alkenyl amines containing from 6 to 18 carbon atoms; at least about 80 mole percent of said mixture of amines containing from 12 to 18 carbon atoms.

2,593,467

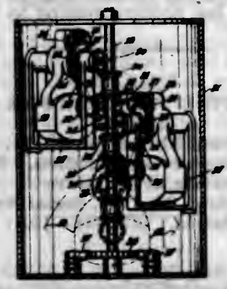
MECHANISM FOR UTILIZING SECONDARY MOVEMENTS ARISING ON RUNNING VEHICLES

Zvonko Maar, Rome, Italy

Application September 27, 1947, Serial No. 776,442

In Switzerland August 26, 1947

4 Claims. (Cl. 185—29)



1. A mechanism for utilizing secondary movements imparted to a vehicle in motion, such as vibrations caused by unevenness of the road and oscillations due to change of speed of such vehicle; comprising a housing having a wall and adapted to be mounted on said vehicle, a plurality of pendulum masses each adapted to swing back and forth and supported on said wall within said housing, a spindle centrally arranged with respect to said pendulum masses and passing through said housing, respective axle supporting said masses and arranged to extend angularly to each other and radially to said spindle at different levels, and respective transmission means on said axles and on said spindle and operatively connecting said pendulum masses with said spindle to thereby transfer said back-and-forth swinging movements of said pendulum masses to said spindle, said transmission means being shaped and arranged so as to rotate said spindle in one direction only.

2,593,468

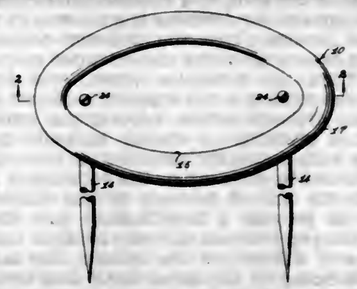
GRAVE MARKER

Oliver A. Marsh, Quincy, Ill.

Application October 28, 1949, Serial No. 124,084

2 Claims. (Cl. 40—124.5)

1. A grave marker comprising a flat stone having a recess extending inwardly from one face intermediate the bounding edges thereof, spaced fastening elements fixedly supported in said stone and each having one end flush with the base of said recess, a plate positioned within said recess and having its edges engageable with the bounding wall thereof, spaced legs arranged transversely of said stone adjacent the other face and each having one end extending partially through the adjacent fastening element



and secured therein, the other end of each of said legs being adapted to penetrate into a ground surface, and a securing element extending through said plate and partially through each of the adjacent fastening elements for attaching said plate to said stone.

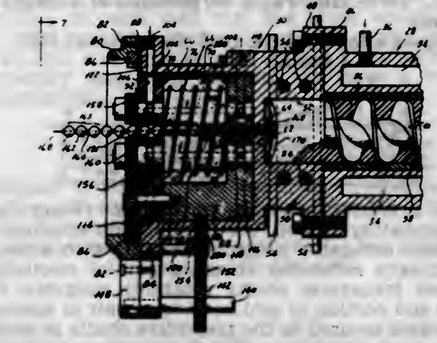
2,593,469

BEAD BLANK FORMING METHOD AND MACHINE

Arthur C. Mason, Wayne Township, Passaic County, N. J.

Application March 22, 1950, Serial No. 151,237

22 Claims. (Cl. 18—12)
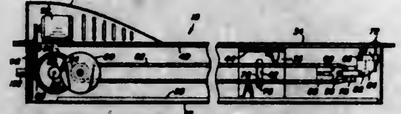


1. The method of forming elongated shaped articles from plastic material, said articles having a plurality of similar enlarged portions equally spaced therealong, said enlarged portions being spaced by interposed similar neck portions of less diameter than the enlarged portions, which comprises extruding the plastic material into a column, feeding such column along its axis, simultaneously compressing and shaping the column in a plurality of annular zones around the axis of the column as it travels, each zone so shaped being briefly and repeatedly compressed in direction which are normal thereto over the extent of such zone, instantaneous compression of such zone being at areas spaced appreciably angularly from each other about the axis of the column, such areas extending generally longitudinally of the article, the areas of compression of such zone travelling regularly around such zone, said compressed and shaped annular zones forming the spaced necks of the article.

9. Apparatus for forming elongated shaped articles from plastic material, said articles having a plurality of similar spaced enlarged portions equally spaced therealong, said enlarged portions

being spaced by interposed neck portions of less diameter than said enlarged portions, which comprises an extrusion press, means for driving the extrusion press, said extrusion press having a delivery orifice such that it expresses the plastic material in the form of a substantially cylindrical column, means for forming the column of plastic material issuing from the delivery orifice, said forming means receiving the extruded column directly from the extrusion press, said forming means comprising a roll support mounted in line with the delivery orifice beyond the outer end thereof, a plurality of similar helically grooved forming rolls rotatably mounted in the roll support parallel to each other, the rolls being parallel with the line of delivery of the column and spaced to provide a longitudinal gap therebetween, the gap between the rolls being in line with said line of delivery of the column, the lands of the rolls being of the same hand and confronting each other at the gap between the rolls, the entrance ends of the rolls receiving the column of plastic material issuing from the delivery orifice, means for driving the rolls in the same direction and in synchronism with each other, and means for synchronizing the speeds of driving of the extrusion press and of the forming rolls, whereby the forming rolls form the column of plastic material and impel it toward the exit ends of the forming rolls.

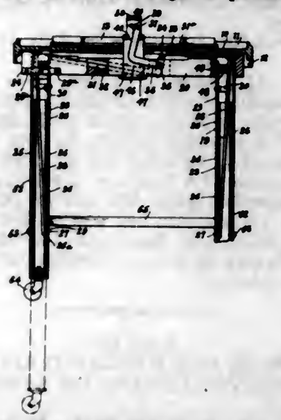
2,593,470
CONVEYER DRIVE
Charles Matthews and Harvey M. Wenger, East Earl, Pa., assignors to Terre Hill Machine Co. Inc., Terre Hill, Pa., a corporation of Pennsylvania
Application April 14, 1949, Serial No. 87,472
1 Claim. (Cl. 74—37)



In a mechanism for converting rotary to reciprocating motion, the combination of a horizontally elongated housing provided with a longitudinally extending recess, a pair of coaxially spaced transverse shafts rotatably mounted in each end portion of said housing, a pair of spaced sprockets secured to the respective shafts in each pair, a set of endless chains extending between the pairs of shafts and engaging said sprockets, a pair of vertically spaced guides provided in said housing between the pairs of sprockets, a rotary motor operatively connected to one pair of said shafts, a reciprocable carriage comprising a vertical plate having upper and lower edge portions thereof slidable in said guides and provided with a vertical slot, a transverse pin extending between and secured to said chains, said pin passing through and being vertically movable in said slot, an antifriction roller rotatable on said pin and engaging edges of the slot, and a driven member provided rigidly on said carriage and projecting outwardly from said housing through said recess for connection to an element which is to be reciprocated.

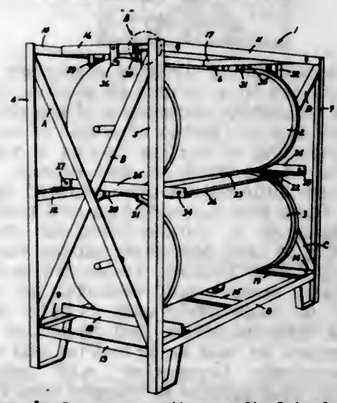
2,593,471
FOLDABLE SERVING TABLE
Bruno Mayer, New York, N. Y.
Application May 21, 1946, Serial No. 671,372
6 Claims. (Cl. 211—85)

5. In a table structure, a table top having legs swingably arranged thereon and foldable beneath it, said legs being provided with telescopic sections to extend said legs in lengthwise direction of said legs, means releasably holding said legs in either of two positions, respectively, and relatively to said table top, means for locking said telescopic sections of said legs in predetermined



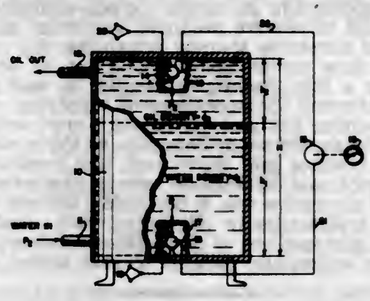
position lengthwise of said legs and slidable means arranged to operate said leg holding means and simultaneously said locking means, whereby said locking means will be freed upon release of said leg holding means to one of said two positions.

2,593,472
STEEL SHIPPING PACKAGE FOR SECTION BEAMS
James B. McGinn, Philadelphia, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application April 29, 1947, Serial No. 744,592
6 Claims. (Cl. 214—10.5)



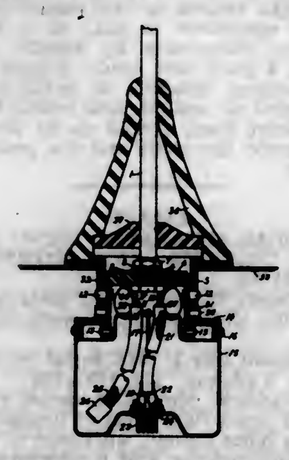
1. A rack for supporting cylindrical articles, such as yarn beams, comprising a supporting framework having a pair of fixedly secured transverse members disposed in a generally horizontal plane, a lower pair of swingably mounted transverse members having spaced arcuate retaining elements fixedly secured thereunder, the swingably mounted members being superposed with respect to the first-mentioned pair of members, and an upper pair of fixedly secured transverse members superposed with respect to the hingedly mounted members, each of the upper members having an arcuate retaining element fixedly secured thereunder and an arcuate retaining element mounted thereunder rotatably about an axis generally parallel to the transverse members.

2,593,473
ELECTRICALLY OPERATED LIQUID LEVEL INDICATOR
John Rowland McKnight, Jr., United States Navy, San Diego, Calif.
Application February 6, 1948, Serial No. 6,573
8 Claims. (Cl. 73—290)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for indicating the proportionate quantities of two liquids of different densities which completely fill a closed tank comprising first and second bellows being attached to the top and bottom, respectively, of said tank within said liquids, first and second synchro generators, said first synchro generator being disposed within and operable by said first bellows, said second synchro generator being disposed within and operable by said second bellows, a differential synchro generator, the output signals of said first and second synchro generators being applied to said differential synchro generator, and an indicator being mechanically coupled to said differential synchro generator.

2,593,474
ANTENNA MATCHING SECTION
Allen S. Meier, Xenia, and Paul D. Coleman, Dayton, Ohio, assignors to United States of America as represented by the Secretary of War
Application October 3, 1944, Serial No. 557,037
4 Claims. (Cl. 250—33)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



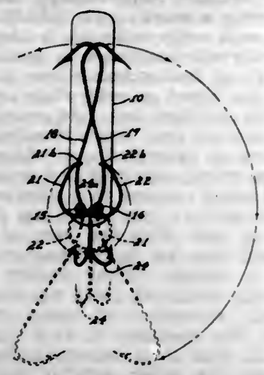
1. An antenna assembly, comprising in combination a whip antenna having a high impedance and a given susceptance and resonant bandwidth, and a matching section for said whip antenna, said matching section including a first spirally wound length of transmission line that is connected at one end to the input of said whip antenna and is adapted to energize said whip antenna by feeding radio energy thereto, said first line having a length such that the high impedance of said whip antenna is stepped down and its bandwidth increased, a second spirally wound length of transmission line connected at one end to the input of said whip antenna and in shunt with said first line, said second line having a length such that the susceptance of said whip antenna is cancelled out while its bandwidth is broadened, said first and second spirally wound lines being encased in a substantially hollow housing having a cap at the top thereof that is adapted to lock with the base of said whip antenna, said housing being downwardly apertured, and a coaxial fitting having inner and outer portions insulated from one another, said fitting being receptive of radio energy and mounted in the aperture of said housing in a manner such that it is accessible from outside said housing, the outer portion of said fitting being electrically connected to said housing, said first and second lines each including inner and outer conductors insulated from one another, the outer conductor of said first line being electrically connected at one end to the cap of said housing and electrically connected at the other end thereof to the outer portion of said fitting, the inner conductor of said first line at said other end being electrically connected to the inner portion of said fitting, the outer conductor of said second line being electrically connected at one end to said cap, both said lines having said one end projecting through said cap, the inner conductors of said first and second lines being connected at said one end to the input of said whip antenna whereby said whip antenna will have a broad bandwidth.

2,593,475
TELEPHONE INDEX
Hildaur L. Neilsen, Metuchen, N. J., assignor to Speed Products Company, Inc., New York, N. Y., a corporation of New York
Application March 15, 1948, Serial No. 14,967
16 Claims. (Cl. 40—104)



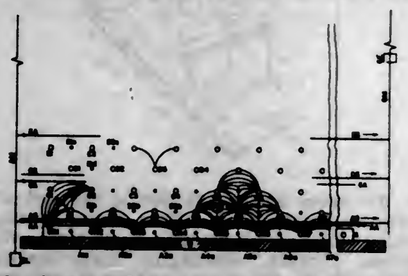
1. An index device adapted to support a telephone desk set comprising a casing having an opening at one end, an index containing drawer disposed therein, automatic latch means for holding the drawer closed, a cover for the drawer, pivot means disposed toward the rear of the cover connecting the same to the sides of the drawer, spring means effective on the operation of the latch means for ejecting the drawer from the casing, and means effective to limit the outward movement of the drawer and at the same time open the cover which comprises a flexible elongated member having one end connected to the casing and the other to the cover in offset relationship to the axis of the pivot means.

2,593,476
ARTIFICIAL FISH BAIT
Arthur L. Nelson, Rockford, Ill.
Application March 16, 1950, Serial No. 149,932
9 Claims. (Cl. 43—35)



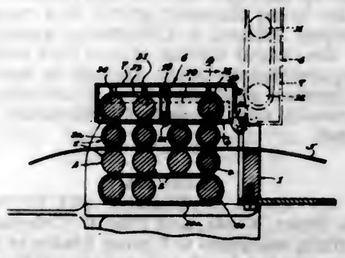
1. Fishing tackle comprising, in combination, a lure having means at its forward end for connection to a fishing line, a primary hook, two supplemental hooks each pivoted on said lure at the end thereof remote from the hook point, and two arms, each arm being pivoted on said lure at one end and having its other end slidably connected with the shank of one of the supplemental hooks, said primary hook being loosely coupled to both said arms, conjointly, said supplemental hooks being normally extended forwardly from their pivots, the arrangement being such that tensile force applied to the primary hook by a quarry is effective through said arms to rotate the supplemental hooks about their pivots away from their normal positions and into hooking engagement with the quarry.

2,593,477
PROCESS OF UNDERGROUND GASIFICATION OF COAL
Louis L. Newman, Washington, D. C., and Wilburn C. Schroeder, Clinton, Md., assignors to the United States of America as represented by the Secretary of the Interior
Application June 10, 1949, Serial No. 98,343
5 Claims. (Cl. 262—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An improved process for rapidly gasifying large areas of underground carbonaceous minerals with a minimum of underground work, involving the simultaneous use of a plurality of boreholes from the surface of the ground to the bed of the carbonaceous mineral, comprising the steps of forming a gallery of considerable length in a bed of carbonaceous mineral, forming a first set of boreholes communicating from the surface with said gallery, forming a plurality of additional sets of boreholes essentially parallel to, and spaced laterally from said first set and from each other, and extending from the surface to said bed of carbonaceous mineral initiating combustion within said gallery, supplying oxygen-containing gas to said bed through alternate boreholes of said first set thereby maintaining a combustion zone along said gallery at the face of said carbonaceous mineral, removing the gases produced from intervening boreholes of said first set, continuing to supply oxygen-containing gas to, and to remove produced gas from, said first set of boreholes thereby advancing the combustion zone toward said second set of boreholes along a line essentially parallel to said gallery, transferring the operations of supplying oxygen-containing gas and of removing produced gases to said second set of boreholes as the combustion zone reaches said second set, and continuing to advance said combustion zone in like manner toward successive sets of boreholes, thereby rapidly and systematically advancing said combustion zone into said bed of carbonaceous mineral along a line essentially parallel to said initial gallery.

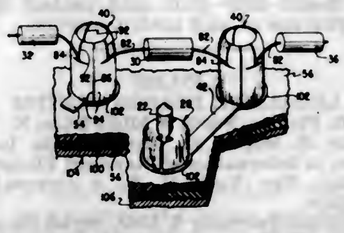
2,593,478
DRAWING FRAME ASSEMBLY
Russell B. Newton, Danville, Va., assignor, by mesne assignments, to Dan River Mills, Incorporated, a corporation of Virginia
Application September 28, 1944, Serial No. 556,154
2 Claims. (Cl. 19—140)



1. In a drawing frame assembly of the type having a revolving clearer cloth, and a pressure roll for driving said cloth by friction, said roll having a driving surface formed of clear synthetic rubber like compound with a coefficient of friction with respect to the clearer cloth substantially equivalent to that of a vulcanized composition comprising by weight 100 parts perbunan, 5 parts zinc oxide, 2 parts sulfur, 1 part benzothiazl disulfide, 30 parts whiting, 10 parts mineral oil and 30 parts cotton fiber, such that all short fibers picked up by the roll will be felted onto the cloth and the pressure rolls kept clean.

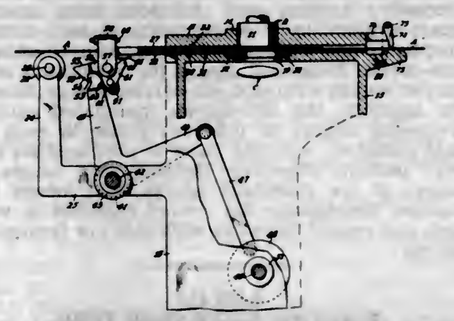
2,593,479
ELECTRICAL APPARATUS USING METALIZED CIRCUITS AND COMPONENTS THEREFOR
Temple Nieter, Evanston, Ill., assignor to Motorola, Inc., Chicago, Ill., a corporation of Illinois
Application July 7, 1948, Serial No. 37,424
5 Claims. (Cl. 173—328)

1. An electrical connection device comprising a relatively thick rigid sheet of insulating material having holes therein, with each of said holes having a non-yielding wall, conductors deposited on said sheet and respectively extending between said holes in accordance with a predetermined circuit arrangement, said conductors also extending into said holes so that the wall of each hole is effectively lined with a portion of a conductor, and resilient snap-in clips respectively positioned in said holes for receiving the protruding terminal portions of replaceable electrical components mounted on said sheet, each of said clips including a protuberance thereof cooperating with one side of said sheet, an expansive snap fastener portion adapted to be inserted through a hole in said sheet from said one side thereof and cooperating with the other side of



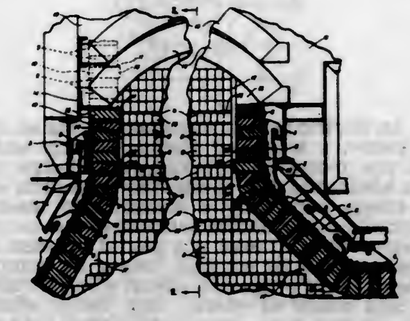
said sheet to hold the clip in position, and an expansive contact portion intermediate said protuberance and said snap fastener portion bearing against the metal lining of said hole to afford an electrical connection between the clip and a conductor on said sheet free of any permanent bond between said clip and said conductor, the wall of each hole being sufficiently rigid to withstand the pressure of said snap fastener portion and said contact portion thereon without any change in the size of the hole when the clip is positioned therein.

2,593,480
FEEDING DEVICE FOR PLIABLE SHEET MATERIAL
Ronald E. J. Nordquist, Maplewood, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 14, 1947, Serial No. 760,906
9 Claims. (Cl. 271—2.5)



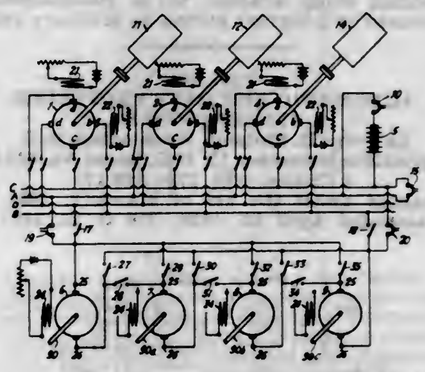
1. A feeding device for advancing sheet material along a predetermined path of travel, comprising in combination a pair of clamping members operable as a unitary structure and disposed on opposite sides of the material to be advanced for clamping the material therebetween, latch means on one of said members for moving both of said members in unison, actuating means engageable with said latch means for shifting said members along a predetermined path of travel, and means for shifting said latch means into an inoperative position out of engagement with said actuating means for inactivating said clamping members for holding the material stationary against advancement under abnormal conditions.

2,593,481
PORT CHAMBER WALL CONSTRUCTION WITH DEPOSIT RETAINING LEDGE FOR OPEN HEARTH FURNACES
Raymond E. Over, Oak Park, Ill., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware
Application September 27, 1947, Serial No. 776,584
11 Claims. (Cl. 110—1)



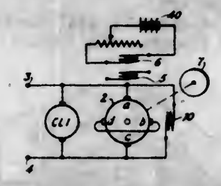
1. In a port chamber for open hearth furnaces, walls defining said chamber including an upstanding wall having a plurality of narrow, horizontal ledges provided thereon on the inner exposed face thereof.

2,593,482
ELECTRIC POWER SYSTEM
Joseph Maximus Pestarini, Staten Island, N. Y.
Application November 4, 1946, Serial No. 707,700
10 Claims. (Cl. 171—119)



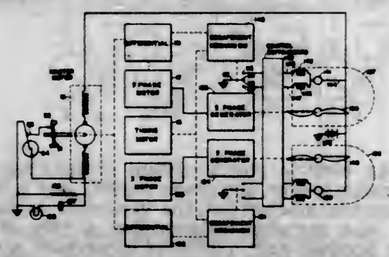
1. An electric power system comprising electric motor means, a storage battery and a dynamo electric machine of the generator metadyne type, said metadyne comprising a pair of primary brushes and a pair of secondary brushes displaced therefrom, and at least two stator windings having their magnetic axes displaced from one another, means for rotating said metadyne, a circuit including the secondary brushes of said metadyne, a circuit including said battery, and switch means for selectively connecting said motor means to one of said circuits, circuit means for selectively connecting said primary brushes to said second mentioned circuit, said stator windings being operative to selectively control the operation of said metadyne for each of said circuits.

2,593,483
ELECTRIC POWER SYSTEM
Joseph Maximus Pestarini, Staten Island, N. Y.
Application December 12, 1946, Serial No. 715,792
In Great Britain September 25, 1946
6 Claims. (Cl. 318—140)



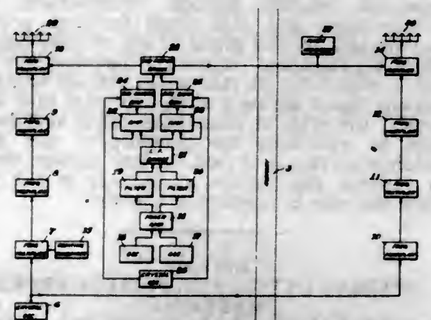
1. An electric power system comprising an electric motor, a source of electric energy, and at least one rotatable variable speed electric machine adapted to interchangeably transform electric energy into kinetic energy, said machine comprising an armature associated with a commutator having at least one pair of brushes, and at least one stator winding, means for connecting said pair of brushes in circuit with said motor and said source of energy, said stator winding being adapted to be energized to cause said machine to supply a current to said circuit having a value substantially independent of the rotational speed of said machine, wherein said machine comprises a set of primary brushes and a set of secondary brushes displaced therefrom, said secondary brushes being substantially short circuited, said primary brushes being connected in said circuit, said machine further comprising a pair of stator windings having their magnetic axes coincident with the axis of the flux created by the armature current traversing said primary brushes, one of said stator windings being adapted to be traversed by a current proportional to the current of said motor, the other of said stator windings being adapted to be simultaneously traversed by a current having an arbitrary value.

2,593,484
AUTOMATIC AIRCRAFT PROPELLER SYNCHRONIZER
La Verne R. Philpott, Washington, D. C.
Application November 19, 1945, Serial No. 629,689
4 Claims. (Cl. 170—160.17)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In an engine synchronizing system, a master motor, a controlled engine, a variable pitch propeller driven by said engine, reversible pitch-adjusting means for said propeller, a pair of control circuits for the pitch-adjusting means, one for effecting an increase and the other a decrease in pitch, a subtracting differential gear system coupled to said master motor and said controlled motor, a pivoted contact member common to either of said control circuits and positioned to selectively energize one of said circuits, and an escapement mechanism controlling the position of said contact member comprising pawl members coupled to said contact member, holding means normally positioning said pawl members whereby neither of said control circuits are energized, spring means urging said pawl members and said contact member into a position whereby one or the other of said control circuits is energized, and tripping means coupled to the output of said differential and actuated by a difference in the speeds of said motor and engine to disengage one of said pawl members from said holding means whereby said spring means may shift said contact member to energize one of said control circuits.

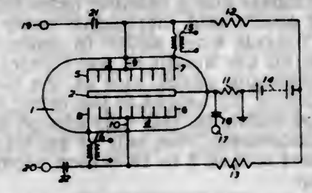
2,593,485
LOCALIZER BEACON SYSTEM
Sidney B. Pickles, North White Plains, N. Y., and Chester B. Watts, Jr., Indianapolis, Ind., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 6, 1948, Serial No. 6,638
13 Claims. (Cl. 343—107)



1. A radio beacon for guiding a craft along a given course comprising first and second radiators each mounted on opposite sides of said course on a line normal thereto, a source of carrier radio frequency energy, a source of sub-carrier radio frequency energy, said radiators being spaced apart a plurality of wavelengths at said carrier frequency and a fraction of a wavelength at said sub-carrier frequency, means for modulating said carrier energy with said sub-carrier energy, means for applying the sub-carrier modulated carrier frequency energy of different phase to each of said radiators, whereby there is produced an energy pattern effectively defining said course, a source of low frequency energy, and means for further modulating the energy supplied to said first and second radiators with said low frequency energy.

2,593,486
ELECTRIC DISCHARGE TUBE
Alec Harley Reeves, London, England, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application June 5, 1948, Serial No. 31,323
In Great Britain June 5, 1947
19 Claims. (Cl. 250—27)

1. An electric pulse integrating circuit comprising a cold cathode gas filled electric discharge tube having an anode and two similar cathodes arranged substantially parallel to the anode and forming therewith two extended discharge gaps in ionisation coupling relation, each of said cathodes having a portion presenting a large discharge surface to said anode, means for applying to each of the gaps a maintaining potential which is insufficient to initiate a discharge across either gap, means for applying a train of pulses in positive sense to the anode in such manner that the first pulse strikes a discharge at one end of one of the gaps which spreads along the corresponding cathode for a distance depending on the energy content of the pulse, and then remains fixed after the disappearance of the pulse, and in such manner that the second pulse extends the said discharge further along the cathode to said portion presenting a large discharge surface, thereby producing an extinguishing squeg, and also strikes a discharge at one end of the other gap which spreads along the corresponding cathode for a distance depending on the energy content of the second pulse and then remains fixed after the disappearance of the second pulse, and in such manner that succeeding pulses produce alternate operations of the two cathodes in like manner, and means for deriving from the said discharge gaps an output current which varies in accordance with the variations in the energy content of the pulses of the train.

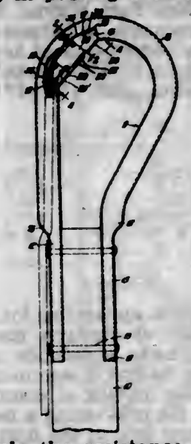


2,593,487
GLUTEN HYDROLYSIS
Celestian L. Royal, Keokuk, Iowa, assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application June 20, 1949, Serial No. 100,290
4 Claims. (Cl. 260—529)

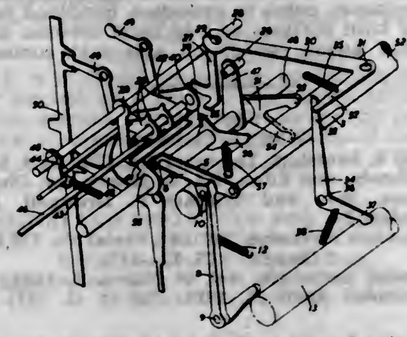
1. Process of hydrolyzing fat-containing gluten for the recovery of an amino acid compound, which comprises subjecting gluten to partial acid hydrolysis to liberate a substantial quantity of the contained fat, separating the liberated fat by gravity, completing the hydrolysis, and recovering an amino acid compound.

2,593,488
HANDGRIP OPERATED SWITCH
William Myrl Royer, Decatur, Ill., assignor to A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware
Application April 2, 1949, Serial No. 85,151
2 Claims. (Cl. 200—157)

2. A handle construction comprising a tubular element of substantial outer diameter, including an attaching portion and a portion curved in a substantial arc and provided with an undercut, dove-tail recess opening through an internal surface thereof; a switch assembly nested in said recess and welded to said grip portion about the margin thereof; said assembly comprising a hollow protective housing shaped in general conformity with said recess and extending as a chord across the arc of curvature of said grip portion and slidably inserted in the latter from a side of said grip portion, the welded connection of said assembly and grip portion being made between the respective adjacent margins of said housing and recess; and a switch unit fixedly mounted in said housing adapted to be actuated by a longitudinally extending spring actuator finger, adjacent respective surfaces of said housing, the grip portion and finger being disposed in substantially flush relationship, whereby an operator's hand, in passing over the grip portion, encounters only the resistance provided by the angles between the curved gripping portion and the switch housing.

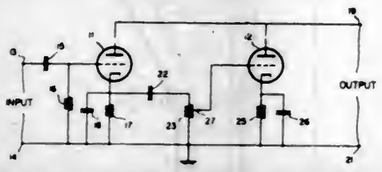


2,593,489
PRINTING TELEGRAPH RECEIVER
Reginald Dennis Salmon and Frederick James Leslie Turner, Croydon, England, assignors to Creed and Company Limited, Croydon, Surrey, England
Application July 7, 1948, Serial No. 37,378
In Great Britain July 25, 1947
1 Claim. (Cl. 178—27)



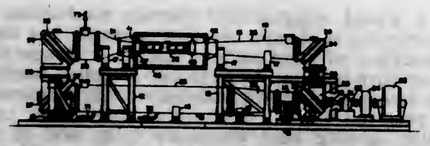
A signal selector and storage mechanism for a printing telegraph receiver comprising a signal receiving electromagnet having a cooperating armature adapted to have two selective positions as determined by the successive code elements of a received signal, mechanical means for cyclically moving said armature from one of said positions to the other, said means operating independent of a received signal, a plurality of storage members, one for each code element, each adapted to be set in response to a received signal code element, striking means, intermediate means disposed between said storage members and said striking means, said striking means adapted to selectively urge said intermediate means against said storage members under control of said mechanical means and said armature and means for traversing said intermediate means with respect to said storage members, said intermediate means adapted to act selectively upon said storage members in turn in response to received signal code elements.

2,593,490
AUDIO SIGNAL TONE CONTROL
Robert W. Sanders, Fort Wayne, Ind., assignor, by mesne assignments, to Farnsworth Research Corporation, a corporation of Indiana
Application March 27, 1947, Serial No. 737,642
6 Claims. (Cl. 179—171)



1. A tone control apparatus for an amplifier comprising a pair of electron discharge tubes each having an anode, a cathode and a control grid, said anodes having a common connection, each of said tubes having a common point of potential, means for impressing a band of signals between the control grid of the first of said tubes and said common point, means coupled between the cathode of said first tube and said common point for developing signal voltages representing a predetermined portion of said band, means coupled between said voltage developing means and the control grid of the second of said tubes for impressing said developed signal voltages between said last named control grid and said common point, said second tube adapted to amplify said developed signal voltages, means coupled between the cathode of said first tube and said common point for providing a low impedance path for another portion of said band, and means coupled to said common anode connection and said common point to provide a combined output of both portions of said band between said common anode connection and said common point.

2,593,491
WATER TUNNEL
Harold E. Saunders, Takoma Park, Charles A. Lee, Bethesda, and Edward A. G. Marvinney, Chevy Chase, Md., and William F. Brownell, Jr., Yeadon, Pa.
Application November 26, 1947, Serial No. 788,308
5 Claims. (Cl. 73—147)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

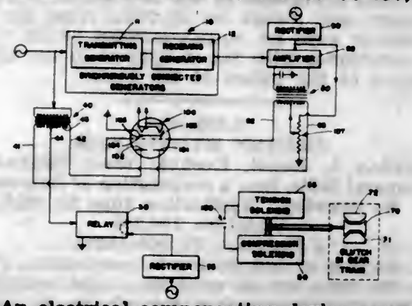


1. In a water tunnel, ducts forming a loop in a vertical plane, one of said ducts in the upper portion of the loop being of reduced diameter and releasably connected between spaced ducts of the loop to complete said loop as a closed hydrodynamic tunnel and constituting a removable test section, a water tank having at least one lateral observation window and constructed and arranged to completely envelop said test section, said tank having a top opening larger than the test section, said spaced ducts extending into the tank, the top of the tank being above said upper portion at such a height that the test section may be removed upon flooding the tank without loss of water from the spaced tunnel ducts.

2,593,492
HYDRAULIC CEMENT COMPOSITION AND INDURATING COMPOSITION THEREFOR
Edward W. Scripture, Jr., Cleveland Heights, Ohio, assignor to The Master Builders Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application November 17, 1948, Serial No. 60,635
9 Claims. (Cl. 106—12)

8. An indurating composition for hydraulic cement mixes comprising in combination an alkylphenyl sulfonate and a calcium ligno sulphonate dispersing agent, said ingredients being proportioned to provide when added to cement .1% to .5%, based on the weight of the cement, of said cement dispersing agent, and at the same time .001% to .005%, by weight of the cement, of said alkylphenyl sulfonate, said alkylphenyl sulfonate being a monovalent base salt of an alkylphenyl sulfonic acid having 9 to 18 carbon atoms in the alkyl group.

2,593,493
ELECTRONIC STRESS-STRAIN RECORDER
Benjamin Schlachman, Baltimore, Md., and William S. Brower, Jr., Arlington, Va.
Application June 16, 1949, Serial No. 98,342
2 Claims. (Cl. 177—351)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

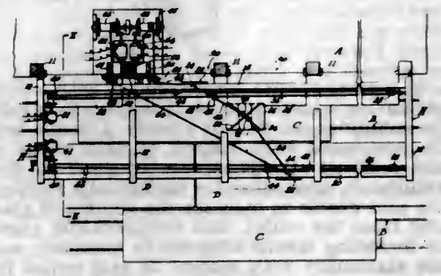


2. An electrical compensating device comprising a control transformer for generating a voltage signal in response to mechanical movement of either of two directional senses, a relay, an electronic tube having an input circuit responsive to said signal and an output circuit controlling said relay, a pair of solenoids, said solenoids being controlled by said relay, a switching means independent of said relay having two "on" positions for applying said signal voltage to said tube and for selecting one or the other of said solenoids to be controlled by said relay, and an independently driven mechanical linkage having a selective clutch means controlled by the solenoids, said linkage operating on the control transformer as a follow-up means to reduce the signal voltage substantially to zero through the switch selected activation of one solenoid or the other, one solenoid causing through selective clutch means action follow-up in one directional sense, the other solenoid causing through selective clutch means action follow-up in the other directional sense.

2,593,494
FREIGHT HANDLING EQUIPMENT
Edgar C. Seward, Arlington, Va.
Application June 1, 1949, Serial No. 96,609
7 Claims. (Cl. 214—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a freight terminal comprising a building structure adapted to receive and to house freight,

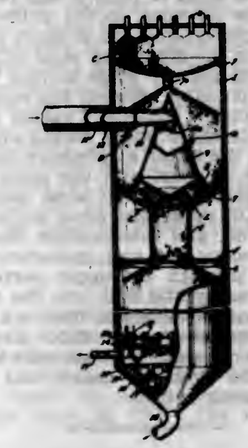
the said building structure including a plurality of floor levels having freight-transfer openings along each level, and freight transfer platforms adjacent to the openings, the improvements which include spaced parallel tracks disposed adjacent to the building structure, a freight-handling platform adjacent to the tracks and having a deck substantially level with the floor of a freight car on the tracks, and material-handling equipment mounted on the building structure including parallel overhead trolley rails, a carriage on each rail, one of the carriages being an inboard carriage and another of the carriages being an outboard carriage, a pulley suspended from each carriage, means for independently moving the carriages along the rails, a cable on each pulley, each of the cables having a free end and an attached end, means on the free ends of the cables for attaching thereto a load to be



handled and for attaching the free ends of the cables together, selectively, one of the cables being an inboard cable and another of the cables being an outboard cable, the outboard trolley rail being mounted substantially immediately over the center line of the freight-handling platform adjacent to the tracks, and independently operable, power-actuated means for actuating each cable independently and simultaneously, selectively, thereby imparting combined and simultaneous vertical and lateral movements of the load carried by the cables in a single plane, which combined movement in conjunction with movement of either carriage relative to its trolley rail enables placement of the load between the freight car on the tracks and any selected freight-transfer platform on the building structure and also on the freight-handling platform adjacent to the tracks, selectively, without requiring shifting of the location of the freight car on the tracks.

2,593,495
ART OF APPLYING AN ATOMIZED HYDROCARBON MIXTURE TO CONTACT MATERIAL DURING PASSAGE THEREOF THROUGH A REACTION ZONE
Hans G. Shimp, Moylan, Pa., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application November 1, 1946, Serial No. 707,260
6 Claims. (Cl. 196—52)

1. In a process wherein hydrocarbon material undergoes reaction in the presence of contact material, the steps which comprise admitting contact material at reaction temperature to a reaction zone for downward passage therethrough under the influence of gravity, causing at least a substantial part of the contact material, while following a circumferentially complete path, to diverge from the longitudinal axis of said reaction zone, causing the last named contact material, after divergence thereof has ceased, to gravitate toward said longitudinal axis of the reaction zone as a layer of contact material, and

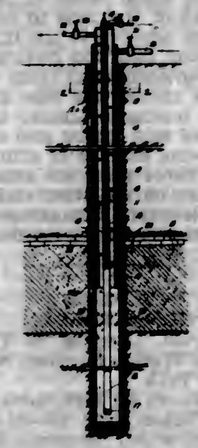


injecting an atomized hydrocarbon mixture into said layer of contact material.

2,593,496
ADDITION AGENT AND MINERAL OIL LUBRICANT COMPOSITIONS CONTAINING THE SAME
Herschel G. Smith, Wallingford, and Troy L. Cantrell, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application February 4, 1948, Serial No. 6,244
25 Claims. (Cl. 252—46.6)

16. A lubricant composition comprising a major amount of a mineral lubricating oil and a minor amount, from 0.1 to 20 per cent by weight, of the product obtained by the process of claim 2.

2,593,497
METHOD AND APPARATUS FOR PRODUCING OIL WELLS
Ralph Spearow, Portland, Oreg.
Application May 26, 1947, Serial No. 750,396
3 Claims. (Cl. 166—21)



2. A method of producing oil wells individually in an oil-producing area by fluid pressure sup-

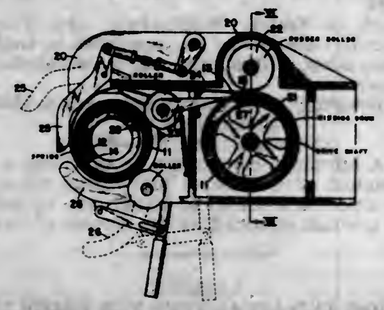
plied from the surface, comprising the steps of cementing a primary casing which extends through the oil sand to form a seal between the casing and the oil sand, to the entire depth of the oil sand, perforating the primary casing and seal within the oil-producing sand adjacent the top and bottom thereof while leaving the casing sealed to the oil sand between the said perforations, positioning a secondary casing of smaller diameter within the primary casing and bonding the former to the latter at pressure-tight joints, one above the oil sand and the other centrally thereof, said last mentioned bond being located intermediate the upper and lower portions of the oil bearing sand, and intermediate the perforations in said casing and seal, introducing a pressure medium through the upper perforation of the primary casing and seal into the top of the oil-bearing sand in excess of the rock pressures existing therein, recovering fluid oil from the bottom of the oil sand, through said lower perforation of the primary casing and seal and through said inner casing.

2,593,498

LEAF SPRING FOR SPINNING PIPE

Albert L. Stone, Redondo Beach, Calif., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

Application August 19, 1949, Serial No. 111,289
4 Claims. (Cl. 255—35)



1. A spring adapted for spinning pipe consisting of an elongated leaf spring of substantially uniform thickness throughout its length having a pipe gripping end preformed in a coil having a diameter of the same order of magnitude but larger than that of the pipe to be spun, a pipe gripping member secured to the inner surface of said pipe gripping end and having a pipe gripping surface displaced away from the inner surface of the leaf spring, the pipe gripping member and spring having a greater thickness than the remainder of said spring and said pipe gripping member being capable of gripping said pipe with a greater force than the remainder of the spring and means on the other end of the spring adapted for releasable engagement with power means for moving the spring longitudinally.

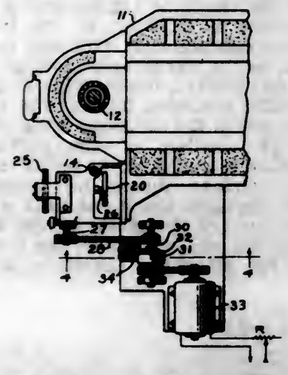
2,593,499

GLASS FEEDER

Roy N. Sundstrom, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York

Application March 11, 1949, Serial No. 80,917
5 Claims. (Cl. 49—55)

1. The method which comprises flowing a small cross-section stream of molten glass from a supply body into an unconfined space, periodically increasing the cross-section of said stream to form a gob therein, and severing the stream at the point of formation of the gob immediately preceding and immediately following formation of the gob therein.



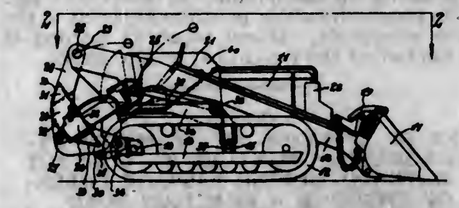
3. In a glass charge feeder for use with a container having a bottom outlet through which glass in the container can flow by gravity, a needle normally positioned with respect to said outlet to permit a small-volume stream of glass to flow therethrough, apparatus for periodically reciprocating said needle to increase the volume of glass issuing from the outlet, said reciprocating apparatus including means adapted to maintain said needle stationary with respect to said outlet for a predetermined period following each reciprocation of said needle, shear blades arranged below the outlet, and mechanism for actuating said blades to shear the glass issuing from the outlet during the commencement of each reciprocation of the needle, and for again actuating said blades at the completion of each reciprocation thereof.

2,593,500

TRACTOR IMPLEMENT SUPPORTING CRADLE

John Adams Thierry, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware

Application February 2, 1948, Serial No. 5,837
5 Claims. (Cl. 214—148)



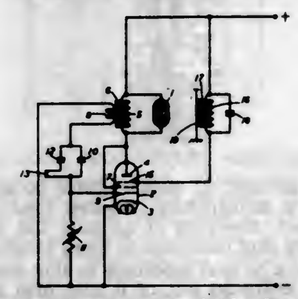
1. In a material-handling apparatus for attachment to a tractor having a main frame, first support means pivotally connected to the main frame adjacent the rear thereof, and second support means forwardly spaced from the pivotal connection of the first support means to the main frame, the combination of: an implement frame; an implement supported by the implement frame, and the following described mechanism for supporting and manipulating the implement frame: a cross-beam adapted to be pivotally supported by the second support means for relative movement about a central longitudinal axis of the tractor; a pair of side members rigidly connected at one end to the cross-beam and adapted to be connected at their other end to the main frame of the tractor at transversely-spaced points adjacent the rear of the main frame; a transverse torsion box; a pair of upper support members rigidly connected to the torsion box respectively adjacent its ends, and pivotally connected to the implement frame; a pair of lower support members rigidly connected to the torsion box respectively adjacent its ends, and adapted to be pivotally supported by the main frame, adjacent the connection of the side members to the main frame, for fore-and-aft movement; a pair of link members pivotally connected to the implement frame forwardly of the pivotal connection between the implement frame and the upper support members, and respectively pivotally supported by the side members for fore-and-aft movement about an axis located forwardly of the pivotal connection of the lower support members to the side members; and power-actuated means, having forward operative connections to points adjacent the pivotal connections of the link members to the implement frame and rearward operative connections to points adjacent the ends of the torsion box, to move said forward connections forwardly and upwardly and thereby raise the implement frame, the rearward connections also moving forwardly and upwardly, but to a lesser degree than said forward connections, thereby offsetting some of the movement, and effectively diminishing the travel, of the forward connections relative to the rearward connections of said power-actuated means.

2,593,501

STROBOSCOPE

Eric Lloyd Thomas, Wembley, England, assignor to The Sperry Corporation, a corporation of Delaware

Application June 4, 1947, Serial No. 752,483
In Great Britain March 15, 1946
2 Claims. (Cl. 315—227)



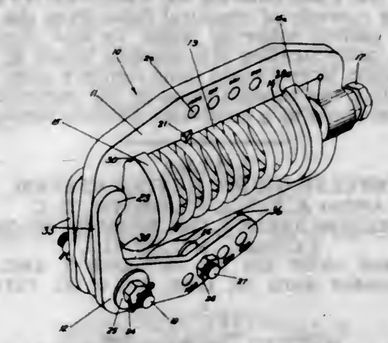
1. In a stroboscopic, variable frequency reference device, a flash lamp of the gas discharge type comprising a translucent sealed envelope having spaced apart electrodes and an ionizable gas therewithin, and an oscillator circuit for flashing said lamp, said oscillator circuit comprising a space-discharge oscillator tube having a cathode and anode and a grid, a power supply connected between the cathode and anode of said oscillator tube, a transformer having inductively coupled primary and secondary windings, the primary winding being connected between the anode of said tube and said power supply and having at least a part thereof connected across the electrodes of said lamp, a resonant circuit connected in the grid-cathode circuit of said oscillator tube and including the secondary winding of said transformer, a manually variable resistor for controlling a first resonant frequency of said oscillator circuit, a pair of condensers having values such that the value of one is a predetermined multiple of the value of the other, and manually operable switch means alternatively providing one or both of said condensers in said resonant circuit, whereby said switch means may be operated to change the resonant frequeny of said oscillator circuit from said first frequency to a second frequency that is a predetermined multiple of said first frequency, said condensers being connected in series with said resistor and between one end of said transformer secondary winding and the cathode of said oscillator tube, the other end of said transformer secondary being connected with said cathode, and the grid of said tube being connected to the junction of said resistor and condensers.

2,593,502

SPRING HANGER

Henry A. Thomson, Lansdowne, Pa.

Application January 16, 1946, Serial No. 641,550
9 Claims. (Cl. 248—54)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A spring hanger for supporting a load resiliently comprising a coil spring, opposed load and adjustment contact-members respectively engaging respective opposite ends of the spring, a frame for the spring comprising guideways for the contact-members to direct their movements towards or away from each other longitudinally of the spring, adjusting means operable opposed to the frame to position the adjustment contact-member towards or away from the load contact-member to set tension of the spring to a predetermined magnitude, and an attaching member for the load comprising a lever supported rotatably on the frame, the load being attachable to one arm of the lever, the other arm of the lever operating through the load contact-member to hold the load in balance against the tension of the spring.

2,593,503

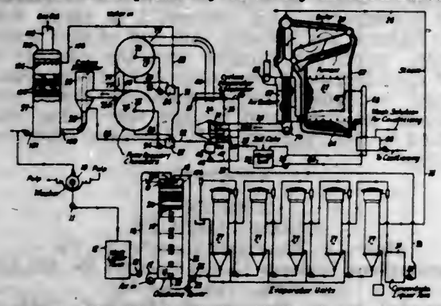
METHOD OF RECOVERING HEAT AND CHEMICALS FROM THE RESIDUAL LIQUOR RESULTING FROM THE DIGESTION OF CELLULOSIC FIBROUS MATERIAL

George H. Tomlinson, Montreal, Quebec, and George H. Tomlinson, II, Cornwall, Ontario, Canada, assignors to Howard Smith Paper Mills, Limited, Montreal, Quebec, Canada, a company of Canada

Application January 10, 1946, Serial No. 640,361
11 Claims. (Cl. 23—48)

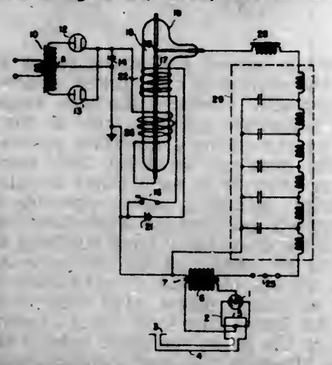
1. The method of recovering heat and chemicals from the residual liquor resulting from the digestion of cellulosic fibrous material in a cooking liquor which comprises concentrating the residual liquor and absorbing gaseous sulphur

oxides therein by the direct intimate contact of the residual liquor with hot flue gases containing gaseous sulphur oxides and chemical fume particles, separating the residual liquor from the flue gases, passing the flue gases after separating the residual liquor therefrom in a helical flow path through a fume recovery zone in intimate contact with a plurality of finely divided streams



of aqueous liquid at substantially the temperature of the flue gases entering the fume recovery zone for the recovery of chemical fume from the flue gases, adding make-up water to said aqueous liquid, concentrating the aqueous liquid by recirculation through said fume recovery zone, and regulating the concentration of the recirculated aqueous liquid by a controlled dilution thereof.

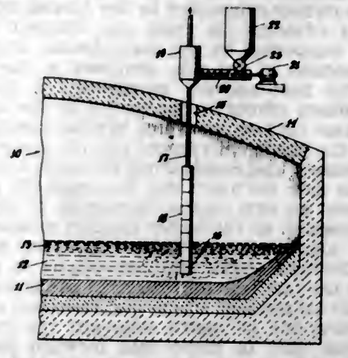
2,593,504
IMPULSE GROUP KEYING SYSTEM
Arthur A. Varela, Washington, D. C.
Application August 6, 1945, Serial No. 609,301
3 Claims. (Cl. 329—1)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An impulse group keying system for radio transmitters comprising condenser means for storing energy, means for discharging the condenser means and feeding the stored energy to a transmitter, a power supply circuit for charging the condenser means, switch means in said circuit, and control means for said switch energized in series with the charging circuit to maintain the switch closed while the condenser means is drawing substantial current.

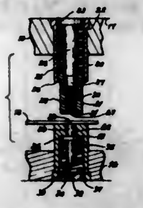
2,593,505
METAL REFINING PROCESS
James B. Wagstaff, Ridgewood, N. J., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application April 10, 1948, Serial No. 20,202
2 Claims. (Cl. 75—51)

1. The process of refining crude iron having a carbon content of about 2 to 4% by weight to yield a refined iron having a carbon content of the order of not more than 0.05% by weight, which comprises decreasing the carbon content of said crude iron to a carbon content of about 0.4 to 1% by weight solely by injecting concentrated oxygen of at least 80% by volume



purity into a molten bath of said crude iron, and thereafter further decreasing the carbon content of the iron in said molten bath to a carbon content of the order of not more than 0.05% by weight by simultaneously injecting concentrated oxygen of at least 80% by volume purity and iron oxide into said molten bath.

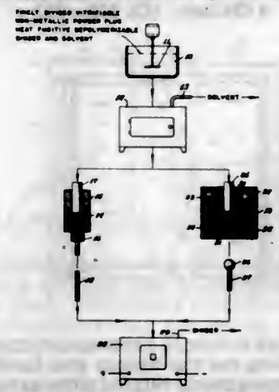
2,593,506
METHOD AND APPARATUS FOR PUNCHING MATERIALS WITH SCREWS AND LODGING SAME THEREIN
George F. Wales, Kenmore, N. Y.
Application July 19, 1944, Serial No. 545,686
14 Claims. (Cl. 10—10)



1. In a method of manufacture consisting in combining a multiplicity of screw mediums and a work-piece, the step of causing the threaded extremity of said mediums to form lodging places for the shank of said mediums in said work-piece by forcing material out of it and into receiving mediums and then swaging a head on each screw medium in the same operative stroke of a machine.

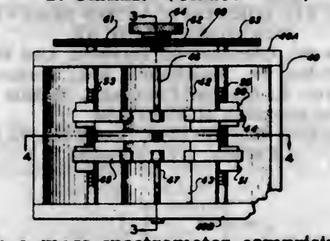
2,593,507
METHODS OF MOLDING NONMETALLIC POWDERS
Eugene Wainer, Cleveland Heights, Ohio, assignor, by mesne assignments, to Thompson Products Inc., Cleveland, Ohio, a corporation of Ohio
Application March 1, 1949, Serial No. 79,110
5 Claims. (Cl. 25—156)

1. The method of making a non-metallic article of desired shape and porosity which comprises heating to a plastic flowable stage without distillation of the binder therein, a mixture composed of 50 to 65 parts by volume of a non-metallic non-plastic powder substantially free from uncombined metal and capable of being vitrified and 35 to 50 parts by volume of a thermoplastic completely distillable binder containing a major proportion of a poly-mono-olefinic thermoplastic resin, pressure molding the thus heated flowable mass into desired article shape, and firing the



article at temperatures materially above the distillation temperature of the binder until the binder is completely and cleanly removed from the article and until the powder particles are sintered.

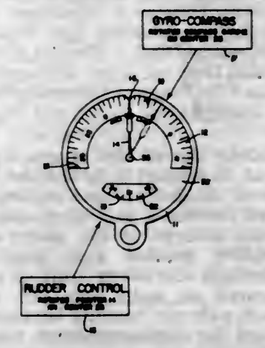
2,593,508
VARIABLE SHUNT PERMANENT MAGNET
Harold W. Washburn, Pasadena, Calif., assignor to Consolidated Engineering Corporation, Pasadena, Calif., a corporation of California
Application October 16, 1948, Serial No. 54,957
10 Claims. (Cl. 250—41.9)



7. In a mass spectrometer comprising an ion source, an analyzer tube, means for propelling ions from the ion source through the analyzer tube and means for producing a magnetic field in the analyzer tube transverse to the path of ion travel, the combination comprising means for producing a controlled variable magnetic field across said analyzer tube and including a pair of permanent magnets arranged with one pair of opposite poles disposed on opposite sides of the analyzer tube so that the analyzer tube lies in the air gap between the poles, a permeable yoke connecting the other pair of opposite poles, and two permeable members disposed adjacent the air gap each being in contact with one of the poles to shunt a portion of the flux away from the air gap and means for adjusting the permeable members in relation to the air gap to vary the portion of the flux shunted away from the air gap.

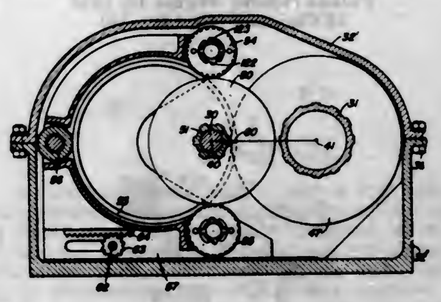
2,593,509
NAVIGATION INSTRUMENT
Juston W. West, Jenkintown, Pa.
Application December 8, 1948, Serial No. 64,064
1 Claim. (Cl. 116—129)

In a navigation instrument for a navigable vehicle, a compass card rotatable to hold a position that indicates north and comprising a coaxial arcuate scale of indicia divided into angular increments, a pointer positioned with reference to the compass card to sweep the scale of indicia and positioned fixed with reference to the vehicle to indicate its heading, a pointer rotatable



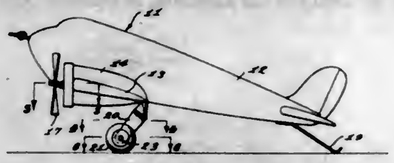
relative to the compass card on an axis coaxial therewith to sweep the scale, the rotatable pointer being rotatable relative to the fixed pointer in accordance with the magnitude of turning control imposed upon the vehicle to steer it to a new course.

2,593,510
FRICTION DRIVE
Ernest Wildhaber, Brighton, N. Y.
Application January 4, 1949, Serial No. 69,168
16 Claims. (Cl. 74—193)



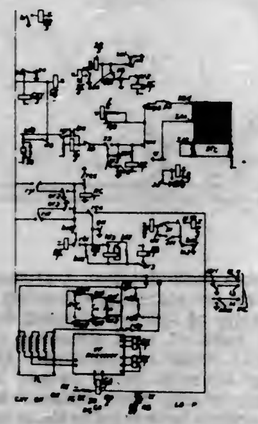
1. A variable ratio friction transmission comprising two rotary elements mounted on parallel axes, a plurality of spaced, tapered friction discs mounted on each of said elements for rotation therewith and axial displacement thereon, the discs on one element being larger in diameter than the discs on the other element and extending into the spaces between the discs of said other element, friction rings interposed between adjacent discs of the two elements, each ring contacting with opposite sides of adjacent discs, said friction rings surrounding the axis of the element which carries the smaller set of discs and being larger in diameter than said smaller set of discs, a plurality of angularly spaced rollers for supporting said rings at spaced points around their peripheries, one of said rollers having portions adapted to contact with all of said rings, a member on which said rollers are mounted, means for adjusting said member to obtain different ratios, and means for creating pressure at the zones of contact of the rings and discs.

2,593,511
SOUNDING WHEELED TOY
Robert B. Witmyer, Brownstown, Pa.
Application September 15, 1950, Serial No. 185,108
3 Claims. (Cl. 46—76)



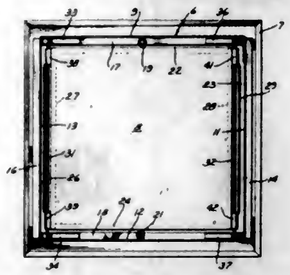
1. A sounding toy of the character described comprising an elongated body shaped to simulate the fuselage of an aircraft and having respective wings secured thereto, a pair of spaced depending resilient struts secured to the under side of the body, respective headed axle pins extending rotatably through the lower ends of said struts, a wheel secured on each axle pin, and a coil spring on each axle pin bearing between the head of said pin and the associated strut, whereby each strut is vibrated responsive to rotation of its wheel when the body is drawn along the ground.

2,593,512
ALTERNATING CURRENT TELEPHONE SIGNALING SYSTEM
Esmond Philip Goodwin Wright and William John Reynolds, London, England, assignors to International Standard Electric Corporation, New York, N. Y.
Application June 7, 1947, Serial No. 753,220
In Great Britain August 16, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires August 16, 1959
10 Claims. (Cl. 179—16)



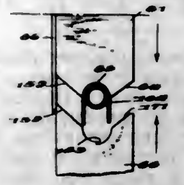
1. A telecommunication system in which a long distance connection is established by means of trains of impulses comprising an impulse-sending device responsive to trains of impulses received from the calling line, delay means connected to said device to delay the transmission of each digit, and signalling means, responsive to the initiation of trains of impulses received from the calling line, for inserting a prefix to introduce relay changes preparing a receiving device for the reception of impulses before said impulse-sending device operates.

2,593,513
RECESSED LIGHT FIXTURE WITH REMOVABLE LIGHT TRANSMITTING PANEL
Preston A. Jones, Berkeley, Calif.
Application November 18, 1948, Serial No. 60,648
4 Claims. (Cl. 240—78)



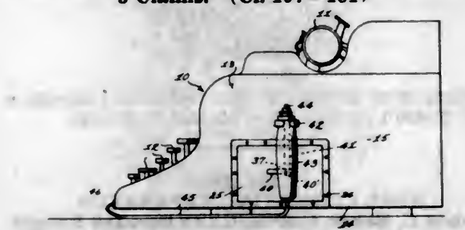
1. In a light fixture, a rectangular frame defining an opening for the fixture and having a plurality of rectangularly related sides arranged in a substantially common plane defining perimetric edge flanges for said opening, a light transmitting pane dimensioned to lie interiorly of said frame and upon said edge flanges, one of said edge flanges being hinged to swing interiorly from said plane so as to enlarge said opening and to permit insertion and removal of said pane, and means for limiting swinging of said one flange outwardly from said plane so as to retain said pane in position.

2,593,514
PLASTIC IDENTIFICATION SLEEVE FORMING MACHINE
Fritz Albrecht, Clarence M. Davison, and William L. Lambdin, Jr., Baltimore, Md., assignors to The Glenn L. Martin Company, Middle River, Md., a corporation of Maryland
Application May 13, 1949, Serial No. 93,154
4 Claims. (Cl. 18—19)



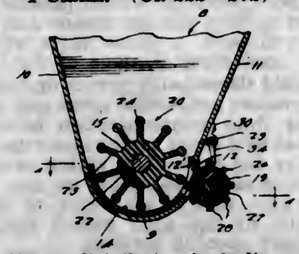
1. In a sleeve forming machine having a strip path and means for moving a strip of material along said path, a support wall spaced from said path, a heater assembly carried by said support wall having heating elements positioned adjacent said path, one of said elements being movable away from the strip path, a channel extending vertically of the support wall, a mandrel carried by the channel and spaced from the heater assembly to extend transversely of the strip path for positioning of the strip material thereon, an upper die adapted for parallel movement relative to the channel having a forming surface for engagement with the strip to form said strip over the mandrel, a cutter associated with said upper die adapted to cut the strip into a sleeve section having parallel ends, a lower die adapted for parallel movement relative to the channel having a forming surface for engagement of the strip to form said strip under the mandrel as a sleeve.

2,593,515
POWER-OPERATED ERASER FOR ELECTRIC TYPEWRITERS
Martha M. Alden, Tulsa, Okla.
Application September 2, 1949, Serial No. 113,889
3 Claims. (Cl. 197—181)



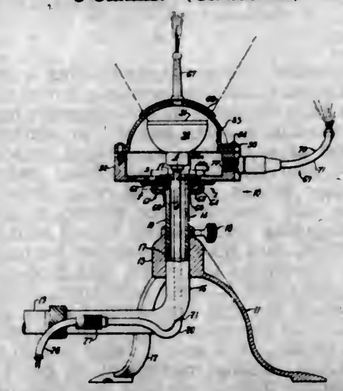
2. An erasing attachment for an electric typewriter having a casing and a drive motor including a drive shaft, comprising a driven shaft journalled for rotation within the casing, said driven shaft being movable toward and away from the drive shaft, clutch elements co-operatively carried by the respective shafts, a rotary eraser drivingly connected to the driven shaft, an operating lever pivotally mounted in the casing and said casing having a slot formed in one wall thereof through which the lever is extended, means connecting the lever to the driven shaft for shifting the driven shaft toward the drive shaft to engage the clutch elements, resilient means actuating said lever in its movement effecting engagement of the clutch elements, and a holder on the exterior end of the lever, said eraser being detachably mountable on said holder and said slot having a recessed end for lockingly receiving the lever and retaining it in an inoperative position, said lever being held in the recessed end of the slot by the weight of the eraser in the holder.

2,593,516
DISTRIBUTOR
Samuel D. Alley, Waldron, and Joseph C. Alley and Dwight A. Alley, Anthony, Kans.
Application April 30, 1948, Serial No. 24,386
1 Claim. (Cl. 222—272)



In a fertilizer distributor including a horizontally disposed elongated hopper having a pair of downwardly converging side walls and a rounded bottom connecting said side walls together, said bottom being provided with a plurality of horizontally spaced discharge openings adjacent the juncture of said bottom with one of said side walls, a main longitudinally disposed rotary shaft mounted within said hopper adjacent the bottom thereof and adjacent said openings, a main roller secured to said shaft opposite each of said openings, a secondary rotary shaft arranged in parallel spaced relation with respect to said first named shaft and mounted exteriorly of said hopper adjacent said openings, a secondary resilient roller secured to said secondary shaft opposite each of said openings with a portion of the periphery of each projecting into the opening adjacent thereto to partially occlude the latter, means operatively connecting said main and secondary shafts together whereby said secondary rollers turn in an upward and outward direction with respect to the discharge openings so that discharge of the material takes place at the upper ends of the openings, a control shaft rotatably mounted above said secondary shaft in parallel spaced relation thereto, a flap secured to said control shaft opposite each of said openings and mounted for movement toward and away from engagement with the top of the adjacent secondary roller, lever means operatively connected to said control shaft to selectively rotate the latter, whereby said flap may be moved to a plurality of positions in contact with the tops of said secondary rollers and in partial blocking relation to the material emerging from the upper ends of the discharge openings to thereby control the rate of discharge of fertilizer from said rollers.

2,593,517
ILLUMINATED SPRINKLER
José Angulo, San Francisco, Calif.
Application December 17, 1948, Serial No. 65,750
3 Claims. (Cl. 299—4)

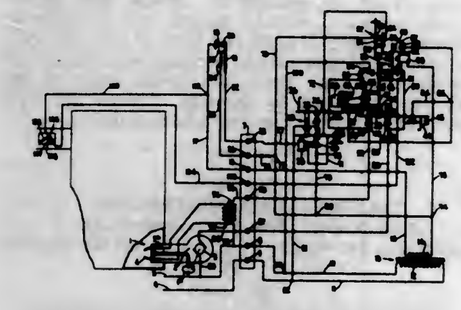


1. A sprinkler comprising, a base, a first tubular supporting member extending upwardly from said base, a housing rotatably mounted on said first tubular supporting member and including a translucent portion through which light may pass, a stationary lamp within the housing, a second tubular supporting member disposed within, fixed to and supported by said first tubular supporting member and having the lamp mounted on the upper end thereof and having its lower end passing through the wall of said first tubular supporting member, means for connecting a water supply conduit to said first tubular supporting member, and electric leads within the second tubular supporting member and connected at one set of ends to the lamp and at the other set of ends to a plug on the lower end of said second tubular supporting member.

2,593,518
ELECTRICAL FUEL BURNER CONTROL SYSTEM AND APPARATUS THEREFOR
Fred B. Aubert, Detroit, Mich.
Application July 11, 1947, Serial No. 760,295
17 Claims. (Cl. 158—28)

1. In a control device, a circuit including a switch, a relay switch operable to control energization of said circuit, a second circuit includ-

ing a third switch, said third switch being initially closed, a pivoted member engaging and holding closed said first-named switch, said pivoted member being operable upon predetermined movement to permit said first-named switch to open and to open said third switch, electric timing means operable after a predetermined time as safety means to move said pivoted member through said predetermined movement, and means including a second relay switch arm operable to engage said pivoted member and to move the same to open said first-named and said third switches.



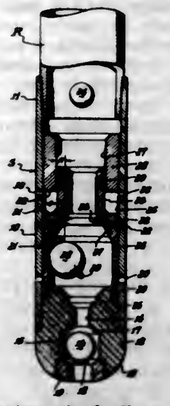
8. In a control device for controlling a burner motor and electric ignition means, a motor circuit and an ignition circuit, a switch operable to control said circuits, a relay switch for controlling energization of said circuits, a third switch for controlling energization of said relay switch, a second motor circuit, a second relay switch for controlling said second motor circuit, a pivoted member engaging and holding closed said first-named switch, said pivoted member being operable upon movement to permit said first-named switch to open and to open said third switch, a holding circuit for said first-named relay switch operable to hold the same closed upon opening of said third switch, said second relay switch being operable upon closing movement to move said pivoted member thereby opening said first-named and said third switches, a bimetal element operable to move against said pivoted member upon heating, an electric heating coil for said bimetal element, said heating coil and said bimetal element being operable as safety means to move said pivoted member to open said first-named and said third switches upon failure of said second relay switch to close within a predetermined time, a flexible stop member operable to prevent said bimetal element from returning to its initial position upon cooling, a reset member operable upon movement to engage and move said stop member thereby to permit said bimetal element to return to its initial position, and said reset member being further operable upon movement to engage and move said pivoted member.

2,593,519
RUFFLER ATTACHMENT FOR SEWING MACHINES
Carl G. Baehr, West Haven, and Herbert H. Russell, New Haven, Conn., assignors to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application June 29, 1949, Serial No. 102,102
7 Claims. (Cl. 112—135)

6. A ruffler attachment for sewing machines comprising a frame, a ruffling blade, a lever pivoted to the frame and connected to the blade and having a shoulder thereon, a fork arm, a pawl adapted to engage said shoulder, and a pawl supporting lever pivoted to the frame and having a lost-motion connection with said fork arm.



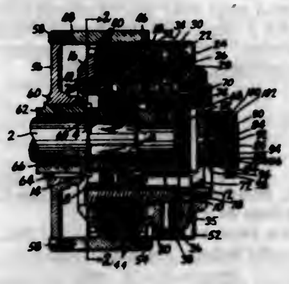
2,593,520
WELL CEMENTING APPARATUS
Reuben C. Baker, Coalinga, and Bernard Kriegel, Los Angeles, Calif., assignors to Baker Oil Tools, Inc., Vernon, Calif., a corporation of California
Application October 11, 1945, Serial No. 621,696
22 Claims. (Cl. 166—1)



1. Well apparatus, including tubular means having instrumentalities thereon for attaching said means to a conduit so that said tubular means can form part of the conduit when positioned in a well bore, said tubular means having a side port providing a fluid passage between the interior of said tubular means and the surrounding well bore, a sleeve valve within said means for controlling passage of fluid through said port, said sleeve valve having oppositely facing fluid pressure actuatable areas and a passage establishing fluid communication between said areas so that said areas can be acted upon simultaneously by the same fluid within said tubular means, one of said areas being greater than the other to cause said sleeve valve to be moved hydraulically by the fluid within said tubular means to port opening position.

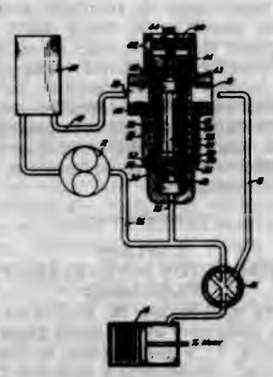
2,593,521
FLUID OPERATED CLUTCH
Charles F. Ball, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 28, 1948, Serial No. 51,587
6 Claims. (Cl. 192—85)

1. In a fluid operated clutch, a housing, a rotatable element, a shoulder on the element, a plate engaging member movable on the element and limited in its movement by the shoulder, a yieldable back-up member, clutch plates between the plate engaging member and the back-up member, alternate plates being non-rotatable relative to the housing and the intermediate alternate plates being non-rotatable relative to the rotatable element, and spring-opposed fluid operated means connected to effect relative movement of the plate engaging member and



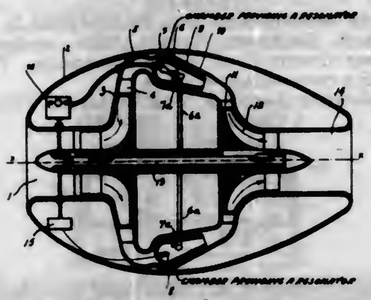
the back-up member to engage and disengage the clutch within the limits imposed by the aforesaid shoulder on the rotatable element.

2,593,522
VALVE
Charles M. Barnes, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 23, 1949, Serial No. 89,271
3 Claims. (Cl. 137—53)



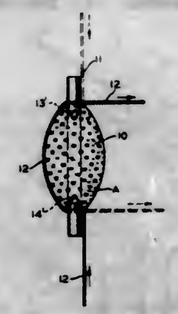
1. A valve for controlling the flow of liquid comprising a body having an opening thereinto, a valve seat in said opening, a valve member normally seated on said seat and unseated in response to a predetermined liquid pressure in said opening, means associated with said valve member for damping the movement thereof and including a dashpot adapted to contain a liquid, said dashpot having two telescoping relatively movable members, one of which carries said valve member, the other of which is adjustable axially relative to said valve seat, means interposed between said other telescoping member and said valve member so that adjustment axially of the former controls the predetermined liquid pressure in said opening for unseating the latter, restricted passages communicating the interior of said dashpot with the exterior thereof to thereby permit flow therethrough, and means for adjusting the position of said other member axially relative to said valve seat.

2,593,523
GAS TURBINE ENGINE WITH RESONATING COMBUSTION CHAMBERS
Louis A. J. Bauger, Vanves, France, assignor to Société Nationale d'Etude et de Construction de Moteurs d'Aviation, Paris, France, a company of France
Application May 2, 1949, Serial No. 90,835
In France May 5, 1948
2 Claims. (Cl. 60—39.75)



1. In a gas turbine plant adapted to operate according to a cycle at variable pressure but constant volume, a source of air under pulsating pressure comprising a centrifugal compressor having a centrifugal wheel with movable blades and a diffuser with stationary blades arranged downstream with respect to said wheel and adapted to transform into pressure the kinetic energy of the whole air output issuing from said movable blades, a pulsating source of hot gases including at least one combustion chamber fed with air under pulsating pressure from said diffuser for supporting combustion in said chamber, said chamber having an elongated form with dimensions adapted to give the chamber a resonance frequency tuned to the frequency of said pulsating pressure, fuel injecting means delivering fuel into said chamber, and control means for operating periodically said fuel injecting means at the frequency of said pulsating pressure, a gas turbine of the variable-pressure operated type the intake of which has stationary expansion nozzles freely opened and connected to the said hot-gas source, and coupling means between said gas turbine and said centrifugal compressor adapted to drive it.

2,593,524
ADJUSTABLE FISHLINE DOBBER
Joseph Bechik, St. Paul, Minn.
Application March 17, 1947, Serial No. 735,103
4 Claims. (Cl. 43—44.93)



2. An adjustable fish line dobber including a rod member having parallelly formed slots spaced apart and positioned diagonally to the longitudinal axis of said rod member, a float hav-

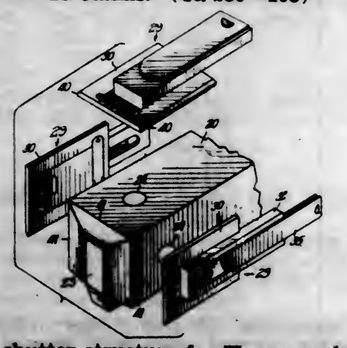
ing a hole formed longitudinally thereof adapted to receive said rod member and positioned over said slots, and a fish line placed around a part of said float and extending through said slots, whereby when said fish line is pulled away from said float and parallel with said rod member, said float is adjustably locked on said fish line.

2,593,525
GLARE-REDUCING WINDSHIELD
Robert R. Beckham, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application August 5, 1950, Serial No. 177,949
1 Claim. (Cl. 296—84)



In an automobile having a body provided with a windshield opening, a windshield mounted in functional position in said opening and comprising two sheets of glass and an interposed layer of plastic material bonded to one another to provide a unitary structure, said windshield being bent along the longitudinal axis thereof with its opposite end portions curving rearwardly toward said body and being positioned at an angle to the vertical with the upper edge disposed inwardly of the lower edge thereof when mounted in said functional position, and a shaded area on said plastic interlayer comprising a colored band extending from one side to the other of the windshield along the upper marginal edge portion thereof and decreasing in intensity from the top of the interlayer toward the bottom thereof to an imperceptible substantially horizontal fade-off line along the bottom of said shaded area and with said colored band exhibiting uniform density from one side to the other along any horizontal line between the fade-off line and the upper edge of the windshield when the windshield is in said functional position and viewed from the interior of the automobile.

2,593,526
X-RAY SHUTTER
Locklin Savage Bell, Hales Corners, and Truman Winner Maltby, West Allis, Wis., assignors to General Electric Company, a corporation of New York
Application June 23, 1950, Serial No. 169,842
15 Claims. (Cl. 250—105)



1. A shutter structure for X-rays and the like comprising a mounting frame member defining an opening, a ported member on said frame member in said opening, said ported member having a ray port formed therein and a collimator tube end seat surrounding said port, said ported and frame members having interfitting portions allowing limited relative movement thereof to adjust the position of said seat with respect to said frame member, and a shutter member shiftable on said ported member between port covering and uncovering positions.

2,593,527
VALVE
William F. Berck, Oakland, Calif., assignor to Ralph N. Brodie Company, Oakland, Calif., a a corporation of California
Application January 4, 1945, Serial No. 571,291
2 Claims. (Cl. 251—95)



1. A valve member comprising a valve body having a cylindrical bore, said body having an inlet opening at one end of the bore and an outlet opening at one side of the bore intermediate the ends thereof, a rigid valve member rotatably fitting said bore, said valve member being formed to establish communication between said openings when positioned by rotation about its axis in one position and to prevent such communication when positioned by rotation about its axis to a second position, a valve stem projecting axially through the other end of said body and connected directly to said valve member for rotating the latter, the connection between said stem and said rigid valve member enabling diametrical movement of the valve member relative to the stem, and a spring ring carried by said member urging said valve member to move diametrically in said body.

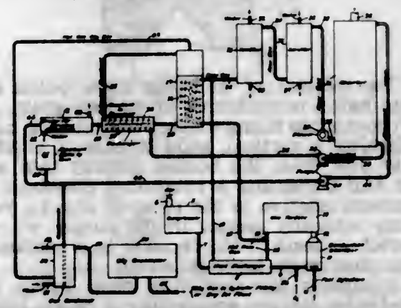
2,593,528
MUCILAGINOUS MATERIALS FROM FLAXSEED
Don S. Bolley and Ralph H. McCormack, Brooklyn, N. Y., assignors to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 23, 1947, Serial No. 781,774
2 Claims. (Cl. 260—209)

1. A process for producing a gel suitable for use in medicinal preparations, water paints, manufacture of soluble fibers, and the like which comprises treating substantially oil-free flaxseed meal by means of air separation to yield a kernel portion containing more than 40% protein and a hull portion containing less than 20% protein, screening the hull portion on a 35 to 48 mesh screen, the material remaining on the screen constituting a mucilage concentrate containing less than 15% protein, treating said mucilage concentrate with acidulated water of from about pH 4 to about pH 6 under substantially atmospheric pressure to form a solution containing the mucilaginous constituents thereof, separating this solution from the insoluble residue, neutralizing the solution, drying the neutralized solution thereby to recover a substantially protein-free mucilage therefrom and dissolving said mucilage in water in amount to form an aqueous gel containing less than 5% of said mucilage.

2,593,529
ROSIN AMINE ALGAECIDES
Joseph N. Borglin, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 31, 1950, Serial No. 165,283
9 Claims. (Cl. 167—22)

1. The method of inhibiting growth of algae in water in a water-carrying system which comprises depositing on the walls of the system normally covered by water and on which algae normally grow a rosin amine in an amount sufficient to kill algae, if present.

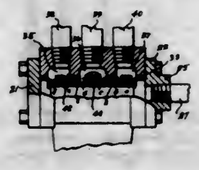
2,593,530
PRODUCTION OF CARBON DIOXIDE
Robert Bridges, New Rochelle, N. Y., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York
Application December 11, 1947, Serial No. 791,137
3 Claims. (Cl. 23—150)



1. The method of producing carbon dioxide which comprises burning a fuel to provide combustion gases, thereafter expanding the combustion gases without previous substantial loss of pressure and with the development of external work, scrubbing the expanded combustion gases, passing the scrubbed expanded combustion gases through an absorption zone where the carbon dioxide content of the gases is selectively dissolved in a solvent therefor, passing the solution from the absorption zone containing the dissolved carbon dioxide into heat exchange relationship with the hot combustion gases after they have been expanded and before being scrubbed to expel carbon dioxide therefrom, collecting the expelled carbon dioxide gas, passing the solvent from which the carbon dioxide was expelled in heat exchange relationship with the solution from the absorption zone passing to the expelling zone to preliminarily heat such solution before it is brought into heat exchange relationship with the expanded combustion gases, cooling the solvent from which the carbon dioxide was expelled after it is passed into heat exchange relationship with the solution from the absorption zone, and returning the cooled solvent to the absorbing zone.

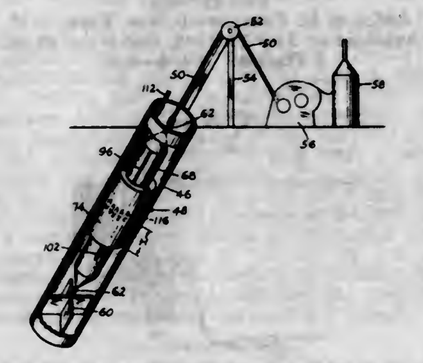
2,593,531
VALVE MECHANISM
Wesley H. Brown, Knoxville, Tenn.
Original application November 3, 1944, Serial No. 561,755. Divided and this application June 7, 1946, Serial No. 675,135
4 Claims. (Cl. 251—78)

1. A fluid pressure distributing valve comprising a housing comprising a cylinder closed at one end and open at the opposite end to a source of fluid pressure, said cylinder having a plurality of longitudinally spaced radial outlet ports opening into its bore, a tubular liner fitting the cylinder bore, said liner being provided with pairs of slots in the wall thereof, each of said pairs of slots being in communication with the adjacent one of said outlet ports, a tubular cylindrical valve slidable longitudinally within the bore of said liner and having longitudinally spaced grooves in its surface, said grooves being arranged in coacting relation with respect to said pairs of slots, the bores of said tubular liner and said tubular valve being in constant communi-



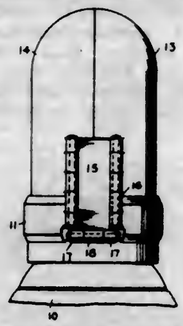
cation with said source of fluid pressure, said grooves each being of a width to establish communication between slots related to two adjacent ports and disestablishing communication between slots of at least one other port in one position of said valve, while disestablishing communication between slots of at least one other port and establishing communication between slots related to two adjacent ports in another position of said valve, and means operatively connected to said valve for longitudinally moving said grooves into different positions in said liner.

2,593,532
IMPACT DRILL APPARATUS
Harold P. Burrell, Noroton, Conn.
Application June 13, 1946, Serial No. 676,482
4 Claims. (Cl. 255—5)



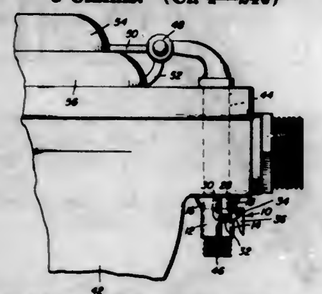
4. A rock drill apparatus of the class described comprising a housing, a drill bit and a drill shank in said housing, means for elevating said shank and bit above a rock surface to be drilled, means for releasing said shank and bit so that the bit may impact with the rock, means for rotating said shank and bit about the shank axis for a predetermined amount on each stroke, means on the interior of the housing and coengaging means on the shank cooperating therewith at spaced portions thereof to guide the shank in its movement and to prevent rotation of the shank and bit at each end of the stroke while permitting the rotation of the shank and bit while traversing the space between said predetermined portions.

2,593,533
PROTECTOR FOR GAS CYLINDER VALVES
James V. Cammarato, Washington, D. C.
Application May 22, 1950, Serial No. 163,394
3 Claims. (Cl. 220—85)



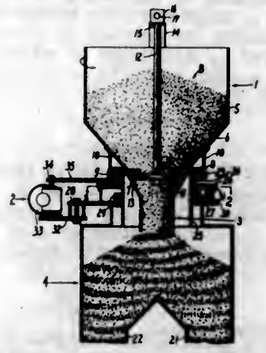
1. A protective device for the valves of portable gas containers comprising a ring for encircling the neck of the container, said ring being provided with an encircling groove, a hinge plate hingedly secured at its lower end to said ring to swing about an axis in the plane of the ring transverse to a diameter thereof, two cover sections respectively hinged to said hinge plate to swing about axes substantially perpendicular to the axis of the hinge connecting said plate to said ring, the lower edges of said cover sections being provided with inwardly extending flanges adapted to engage in closed position thereof in the groove in said ring, and means adapted to engage the edges of said cover sections remote from said hinges for securing said cover sections together.

2,593,534
QUICK DETACHABLE TOILET HINGE POST FASTENER
Anthony M. Campanelli, New York, N. Y.
Application July 19, 1948, Serial No. 39,522
3 Claims. (Cl. 4—240)



1. In a water closet including a bowl having an aperture, a seat, a hinge securing the seat to the bowl and an anchoring element carried by the hinge and received in the aperture in the bowl; means for securing the anchoring element relative to the bowl comprising, a first semi-cylindrical clamping member, a pair of spaced arms carried by said first clamping member, a second semi-cylindrical clamping member movable between said arms, means carried by said second clamping member slidably engaging said arms, said second clamping member having an outwardly flared end forming a sloping continuation of a cylindrical bearing surface, and a cam pivotally carried by said arms and engageable with said bearing surface at the juncture with said outwardly flared end to force said jaws into a clamping position.

2,593,535
METHOD AND APPARATUS FOR HANDLING GLASS BATCH
Madison M. Cannon, Jr., West Hartford, Conn., assignor to Emhart Manufacturing Company, a corporation of Delaware
Application April 12, 1946, Serial No. 661,759
3 Claims. (Cl. 214—152)



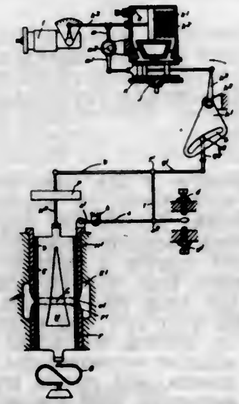
2. The method of handling glass batch containing batch constituents of various grain sizes which comprises filling a batch bucket with batch, establishing a vertical, solid stream of batch by gravity flow from the bucket directly into a receiver and imparting a rotational component to the stream relative to the receiver about a vertical axis centrally located in the stream whereby the batch collects in the receiver in a continuous and circular multi-layer sandwich.

3. Apparatus for supplying glass batch to a batch-feeder hopper comprising a batch bucket, means for rotating said bucket above and relative to said hopper, and a discharge outlet in said bucket for discharging batch from the rotating bucket directly into the hopper, said outlet having unobstructed communication with the interior of said hopper along the axis of rotation of said bucket.

2,593,536
FUEL METERING AND AIRSCREW PITCH CONTROL MECHANISM
Reginald Henry Douglas Chamberlin and Charles Horace Lionel Wynne, London, and John Skellern, Northolt, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application August 5, 1947, Serial No. 766,259
In Great Britain July 1, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires July 1, 1966
5 Claims. (Cl. 170—135.74)

1. Apparatus for metering the fuel supplied to a prime mover of the type indicated provided with a governor for controlling the pitch of a variable pitch air screw which comprises in combination a metering orifice the dimensions of which in directions at right angles are determined by parts of three sleeve members coaxial with and relatively movable within a cylinder, namely at least one port in an inner sliding sleeve, the edge of a second and outer sliding sleeve which passes across said port in the inner sleeve, and the edge of a third and outer sleeve which lies across the port in the said inner sleeve, the said edges of the second and third sleeves being spaced apart axially and these two sleeves being coaxial and together providing a cylindrical surface within which the said inner sleeve can move, a pump driven by and in speed relation to the prime

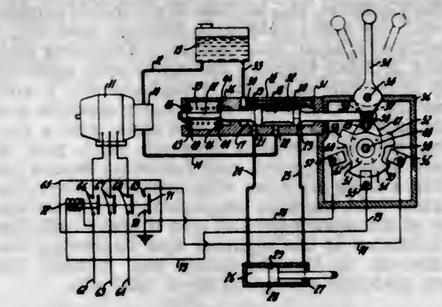
mover and operative to deliver fuel in variable quantity to the said metering orifice, means for moving the said first and inner sleeve axially on the one hand in accordance with the speed at which the said fuel pump is driven and hence in accordance with the actual speed of the prime mover and on the other hand in accordance with the pressure of the fuel as supplied to the said fuel pump, means for moving the second of the said sleeve members in relation to the metering orifice in accordance with the temperature of the air at the entry to the compressor of the prime mover, a servo motor operative on the airscrew governor, control means for said servo motor, means for delaying the response of said servo motor to movements of said control means,



a control lever, an operative connection between said control lever and the control means of said servo motor, a floating lever connected at one point to said ported inner sliding sleeve so that the position of this point of the floating lever depends on the actual speed of the prime mover, an operative connection between said control lever and a second point on said floating lever so that the position of this second point depends on the speed of the prime mover as selected by the control lever, and a connection between a third point on said floating lever and the said third and outer sliding sleeve so that the position of this sleeve depends both on the actual speed of the prime mover and on the speed selected by the control lever.

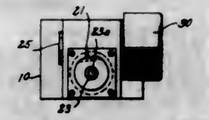
2,593,537
MOTOR CONTROL FOR FLUID PRESSURE SYSTEMS
Edward Claude Shakespeare Clench, Leamington Spa, England, assignor to Automotive Products Company Limited, Leamington Spa, England
Application July 17, 1944, Serial No. 545,202
In Great Britain August 23, 1943
3 Claims. (Cl. 318—446)

1. In a motor control system, the combination with a source of current supply and an electric motor, of a magnetically-controlled switch comprising a main switch connected between the current supply and said motor and having an electro-magnet operatively connected to the main switch to close the same when the magnet is energized, a control circuit including said electro-magnet, an auxiliary switch in the control circuit, said auxiliary switch being operatively connected to said electro-magnet to be closed simultaneously with the main switch, and a manually settable switch in the control circuit having a member movable in either direction from an inoperative position to an operative position via first and second positions, in the first position the manually settable switch is in series with



the electro-magnet and the auxiliary switch, and in the second position said manually settable switch is in parallel with said auxiliary switch.

2,593,538
WORK HOLDER
Donald M. Cleveland, Geneva, N. Y.
Application March 26, 1948, Serial No. 17,300
2 Claims. (Cl. 90—59)



1. A work support comprising a post having a longitudinal bore extending through one end of the post, a substantially vertical reciprocatory bar mounted within the bore of the post and having one end exposed beyond said end of the post, work engaging means carried by said one end of the bar, a spring mounted within the bore of the post and engaging the other end of said bar and urging said bar out of said one end of the post, the upright post being provided with a transverse bore intersecting the bore of the post, a transverse locking rod slidably mounted within the transverse bore of the post and extending laterally beyond opposite sides of the bar, the locking rod being provided in its side with a recess receiving the bar and defining a clamping surface, one end of the locking rod extending laterally outwardly beyond one side of the post and being screw-threaded, and a nut mounted upon the screw-threaded end of the locking rod and turnable for drawing the locking rod axially in a direction to clamp the bar between the clamping surface of the recess and the bore of the port.

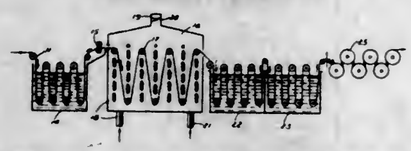
2,593,539
SCREEN ATTACHING AND TENSIONING MEANS
Alexander Cohen, Los Angeles, Calif.
Application September 25, 1951, Serial No. 248,144
5 Claims. (Cl. 160—328)



1. Screen attaching and tensioning means comprising: a hollow tubular member provided

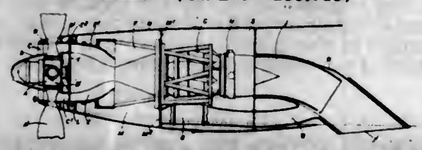
with a continuous open ended, lateral slit extending longitudinally the full length of the member, said hollow member being adapted to receive a thickened end portion of a sheet of screening with the sheet extending through said slit; a plurality of spaced, longitudinally extending slots in said tubular member angularly and substantially uniformly displaced from said slit, a port formed in the member diametrically opposite and in alignment with each of said slots; and a fastening means extending through each pair of aligned slots and ports, said fastening means including a head provided with upwardly diverging margins, said margins cooperating with certain edges of the associated slot and thereby reducing the diameter of the member and narrowing the slit therein to thereby grasp and tighten the screen material extending from said slit.

2,593,540
SEMIPERMEABLE MEMBRANE
Ralph T. K. Cornwell, Fredericksburg, Va., and Justin Zender, Ardsley, N. Y., assignors, by mesne assignments, to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application September 1, 1945, Serial No. 614,030
4 Claims. (Cl. 210—8.5)



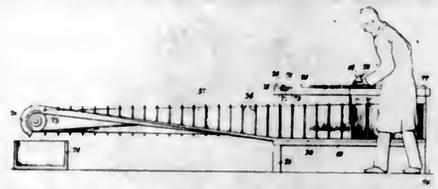
1. The method of separating materials of differing molecular size and constitution from a mixture thereof comprising the step of dialyzing the mixture through a semi-permeable membrane comprising a non-fibrous pellicle of regenerated cellulose having a deposit of a water-insoluble melamine-formaldehyde resin formed therein.

2,593,541
COOLING APPARATUS FOR USE WITH AERO OR OTHER ENGINES
Cecil Louis Cowdrey, Markyate, and Kenneth Howard Greenly, Luton, England, assignors to D. Napier & Son Limited, London, England, a company of Great Britain
Application April 5, 1948, Serial No. 19,094
In Great Britain April 3, 1947
7 Claims. (Cl. 170—135.743)



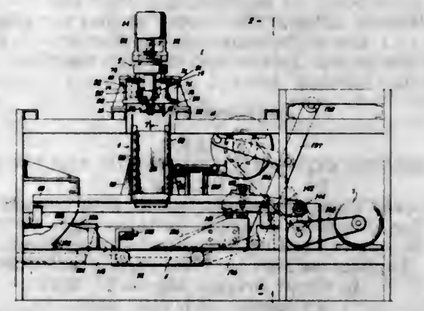
1. An internal combustion power plant comprising a power source driving a propeller having a hub, a spinner mounted on said hub for rotation therewith, said spinner having outer and inner walls providing between them, an annular air intake duct around the hub, a fixed annular duct to the rear of and in line with the said spinner duct, the rotating and fixed ducts together forming an intake passage through which air flows to the power source, an annular opening leading radially outwards through the wall of the said intake passage through which radial opening air can be tapped off from the air flowing through the said passage, a casing enclosing the power source and providing a space around the said fixed annular duct with means for leading into this space the air tapped off through the said annular opening, and means whereby this tapped off air is used with cooling effect on at least some part of the power plant.

2,593,542
METHOD AND APPARATUS FOR SEVERING AND SEGREGATING MACARONI
Aldo R. Curioni, New York, N. Y., assignor to Sarioni Company, Inc., New York, N. Y., a corporation of New York
Application August 18, 1945, Serial No. 611,371
28 Claims. (Cl. 107—54)



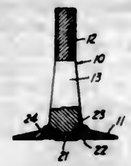
1. In a machine of the class described, the combination with means for supporting a rod holding U-shaped lengths of macaroni, of a knife for cutting dangling sticks from connecting U's of said lengths, a movable member at a lower elevation than the rod adapted to receive sticks cut from said lengths, additional means movable with said first mentioned movable means for holding the sticks nearly upright, means adapted to receive the sticks from the movable means, and means for separately receiving U's separated from the sticks.

2,593,543
METHOD AND MACHINE FOR SEVERING AND HANDLING MATERIALS SUCH AS MACARONI OR SPAGHETTI
Aldo R. Curioni, New York, N. Y., assignor to Sarioni Company, Inc., New York, N. Y., a corporation of New York
Application August 2, 1948, Serial No. 42,074
32 Claims. (Cl. 107—54)



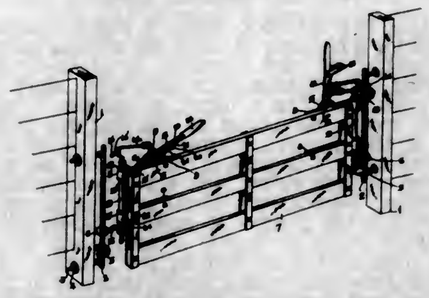
29. The method of treating materials of the class described which comprises supporting the material to be treated on a rod-like member so that leg portions hang downwardly at opposite sides of the rod-like member and are supported by a connecting portion, placing said rod-like member with the material supported thereon in alignment with and moving it through a space between spaced cutters to separate said connecting portion from said leg portions of said rod, and withdrawing the resulting separated connecting portion generally upwardly away from the vicinity of said rod-like member and the cutting zone.

2,593,544
HAIR CURLING DEVICE
William H. H. Davis and Floyd V. Schleimer, San Francisco, Calif.; said Schleimer assignor to Duart Manufacturing Co., Ltd., a corporation of California
Application January 8, 1949, Serial No. 69,932
1 Claim. (Cl. 132—39)



In hair curling device, an outwardly tapered mandrel, a relatively flat base member disposed at one end of the mandrel at right angles to the axis of the mandrel and extending outwardly from the same for at least twice the diameter of the mandrel, means serving to attach the base member to the mandrel for relative rotation between the parts about the axis of the mandrel, an annular ring of resilient material positioned between said base member and said mandrel providing friction means tending to impose a frictional restraint against such relative rotation, and oppositely faced arcuate slots formed adjacent the periphery of said base member to receive a strand of hair near its root end to thereby enable said device to be held firmly adjacent the scalp.

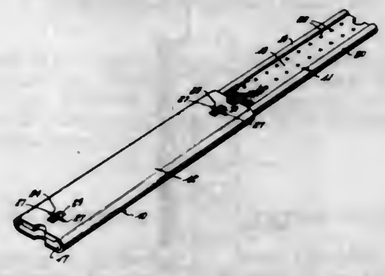
2,593,545
COMBINATION HINGE AND LATCH MEANS FOR GATES OR THE LIKE
Joseph R. De Barbe, Santa Rosa, Calif.
Application March 15, 1949, Serial No. 81,502
4 Claims. (Cl. 16—147)



1. In combination hinge and latch means for use with swinging type gates, a rotatable tubular member adapted to be secured to an end of such a gate, an independently rotatable rod supported in the tubular member, four hooks, one each secured to each end of the rod and one each to each end of the tubular member, the said hooks being arranged for simultaneous movement into an embracing position with an upright supporting post or to a released position with respect to said post, and operating means for the hooks.

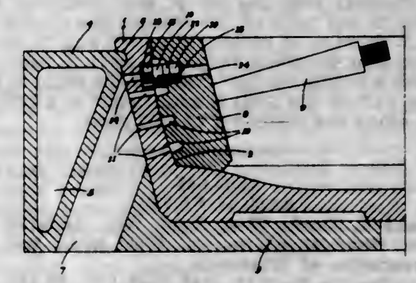
2,593,546
SURGICAL SPLINT
William H. Dietsch, Collingswood, N. J.
Application November 30, 1950, Serial No. 198,425
3 Claims. (Cl. 128—87)

1. A surgical splint comprising a pair of elongated telescopic members, the inner of said members having a relatively flat transverse web portion and arcuate marginal beads integral with said web portion, the outer surfaces of said beads forming the arcs of circles of substantially greater diameter than the thickness of said web portion; the outer of said members being tubular, relatively flat, and having substantially



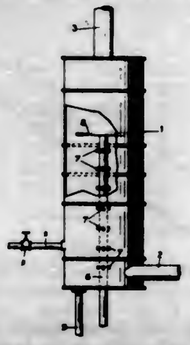
parallel, spaced, side walls rigidly interconnected by edge walls, said edge walls having inner surfaces which conform in contour to the outer surfaces of the marginal beads of said inner member, the spacing of said side walls being approximately equal to the thickness of the web portion of said inner member.

2,593,547
MATRIX FOR TIRE TREADS WITH LATERAL TRACTION SLITS
Arnold Duerksen, Lodi, Calif., assignor to Super Mold Corporation of California, Lodi, Calif., a corporation of California
Application July 16, 1948, Serial No. 39,156
2 Claims. (Cl. 22—116)



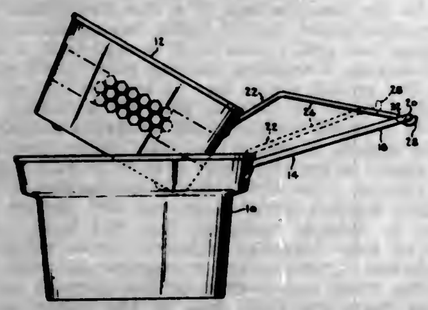
1. In the manufacture of a tire tread matrix, a circumferential matrix blank having an inner working face and a bore open to said face, a die block having a working face to matchingly engage the matrix blank face in located but non-attached relation thereto, said block having a bore in from its working face to match the bore in the matrix blank, a plug-like holder removably seated in the block bore so as to be flush with the working face of the block, a longitudinally straight traction-slit element, one end portion of which is slidably projected into the holder in engaged but releasable relation upon relative end-to-end movement of the element and holder, and the other end portion of the element projecting from the flush face of the holder and into the bore in the matrix blank; there being means to feed molten metal into the blank bore to surround and embed the projecting portion of the insert element.

2,593,548
GAS SCRUBBING DEVICE
Walter R. Edwards, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application January 16, 1948, Serial No. 2,801
1 Claim. (Cl. 261—16)



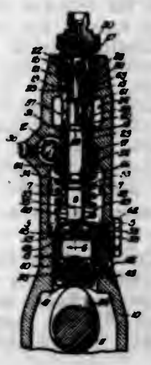
In a gas scrubber adapted to be employed for the removal of liquid and solid materials from a plurality of gas streams, the combination with a cylindrical shell provided at the base with tangentially disposed gas stream inlet means adapted to cause said entering gas stream to follow a helical path and at the top with a gas discharge outlet, of radially disposed gas stream inlet means positioned above said tangentially disposed gas stream inlet means and adapted to cause a second entering gas stream to commingle with and follow the helical path of the first entering gas stream, an axially disposed manifold having a plurality of spray nozzles cooperating therewith for introducing a liquid into the shell in finely-divided form, a liquid discharge outlet and means comprising a baffle in the form of a disc integral with the top of said manifold and placed in the path of the washed gas stream in such fashion as to provide a limited and uninterrupted annular space for the passage of said gas stream whereby the movement of the same in the upper part of the shell is maintained in a helical path along the perimeter of said shell.

2,593,549
FRENCH FRYER
Leonard E. Finch, West Bend, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application April 23, 1949, Serial No. 89,282
2 Claims. (Cl. 99—411)



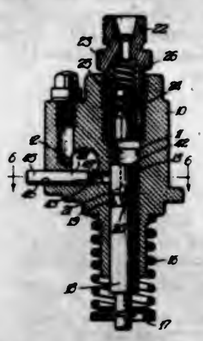
1. In a French frier having a cooking vessel with a vessel handle and a basket with a basket handle, said handles extending radially outward of said vessel and basket a sufficient distance to provide space for manually grasping said handles between the outer ends thereof and said vessel and basket, and opening within the confines of said vessel handle adjacent the end thereof, a projection and shoulder integrally formed on the end of said basket handle, said projection with said basket in elevated position over said vessel being tilted with repect to said opening and inserted in said opening and engaging the periphery thereof and said shoulder bearing on said vessel handle whereby said handles are supported in required relative angular relationship to hold said basket in said elevated position, and a hook on said projection for preventing relative sliding movement between said handles while said basket is in elevated position.

2,593,550
MULTIPLE UNIT FUEL INJECTION PUMP
Nicholas Fodor, Wilmette, Ill.
Application March 28, 1946, Serial No. 657,723
3 Claims. (Cl. 103—41)



1. In a fuel injection pump, a pump housing containing a plurality of upwardly opening bores, a plurality of cam-operated constant-stroke pumping units positioned in said bores, each of said units including a barrel, a plunger in the barrel, means controlled by the angular position of the plunger relative to the barrel for determining the amount of fuel pumped by the plunger on each stroke, and a position limiting connection between the barrel and the plunger for causing the plunger to move upwardly with the barrel when the barrel is withdrawn vertically from within its bore in the housing, exteriorly accessible control means mounted in the housing and connected with the plungers for varying the angular positions of all of the plungers relative to the barrels simultaneously and to the same extent, said connection beings freely separable axially from the plungers, whereby to permit the plungers when withdrawn vertically with the barrels from within the bores in the housing to be returned with the barrels to the bores without changing the previous settings of the plungers with respect to the housing, and exteriorly accessible calibration means mounted in the housing and connected with the barrels for individually varying the angular position of each barrel relative to the housing and to the plunger in such barrel independently of the angular positions of the other barrels, said last mentioned connections being freely separable axially from the barrels, whereby to permit the barrels with the plungers to be withdrawn vertically from within the bores in the housing and returned to the bores without changing the original angular positions of the barrels with respect to the housing, each barrel with its plunger being removable vertically as a unit from its bore in the housing and thereafer replaceable as a unit in such bore without disturbing the existing adjustment of either said control means or said calibration means.

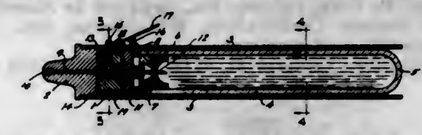
2,593,551
FUEL INJECTION PUMP
Nicholas Fodor, Wilmette, Ill.
Application December 8, 1947, Serial No. 790,277
5 Claims. (Cl. 103—41)



1. In a fuel injection pump, a pumping chamber, a constant stroke plunger reciprocally mounted therein, said plunger having a circumferentially continuous head which closely fits the pumping chamber and terminates at its lower end in a laterally opening recess, which recess communicates through the head with an upwardly opening recess in the top of the latter, an outlet port from the upper end of the pumping chamber adapted for connection with an injector, a fuel chamber for both supplying fuel to the pumping chamber and receiving excess fuel from that chamber, a single inlet port into the pumping chamber from the fuel chamber, which port is located just above the top of the head of the plunger in the lowermost position of the latter, an adjustable metering valve located between the fuel chamber and the inlet port for variably controlling the rate of flow of the fuel from the fuel chamber through said inlet port into the pumping chamber, a single spill port from the pumping chamber into the fuel chamber, which port is located a substantial distance below the inlet port and is closed off from the pumping chamber by the head of the plunger in the lowermost position of the plunger, being placed in communication with the pumping chamber by said laterally opening recess only after the piston has moved upwardly a predetermined distance, and a baffle member located in the fuel chamber adjacent to but spaced from the discharge end of the spill port, in a position in direct opposition thereto, for reducing in the fuel present in the fuel chamber the turbulence which would otherwise be caused by the fuel returned to the fuel chamber through the spill port, without obstructing such return.

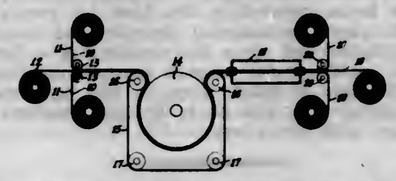
2,593,552
AEROSOL DISPENSER AND PENETRABLE CARTRIDGE THEREFOR
Marvin L. Folkman, Shaker Heights, Ohio
Application February 3, 1947, Serial No. 726,177
7 Claims. (Cl. 222—82)

1. Dispensing means of the class described, comprising a dispensing unit provided with a dispensing nozzle and having skeleton-like cartridge holding means constituting a handle and formed with open portions adapted to expose the major external surface of a cartridge to the atmosphere, a cartridge containing a low pressure aerosol dis-



posed in the holding means so the heat of a hand grasping the holding means may pass through the open portions to the cartridge, and means to control passing of the aerosol from the cartridge through the unit.

2,593,553
APPARATUS FOR PRODUCING COATED FABRICS
Carleton S. Francis, Jr., West Harwich, Mass., assignor, by mesne assignments, to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application May 31, 1946, Serial No. 673,685
2 Claims. (Cl. 154—37)

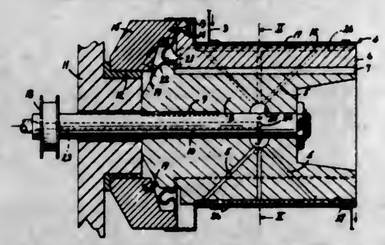


1. Means for applying thin films of coating material to both sides of a fabric layer comprising means for directing and concurrently positioning a fibrous layer between and in contact with two films of thermoplastic coating material temporarily supported on backing sheets, means for uniformly subjecting the assembled films and fibrous layer to heat and pressure throughout their area to adhere the films to the fibrous layer, means for concurrently cooling the films and both sides of the fibrous layer, and means for concurrently drawing the backing sheets in substantially opposite directions away from the films, concurrently stripping both backing sheets from the films and winding the backing sheets in rolls while supporting the assembled films and fibrous layer from both sides in a region adjacent the region in which the backing sheets are stripped comprising a pair of stripping rolls engaging both of the backing sheets.

2,593,554
METHOD OF PRODUCING STEEL
Edward H. Graf, Cleveland, Ohio, assignor to Cleveland Steel Conditioner, Inc., Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 15, 1949, Serial No. 81,631
2 Claims. (Cl. 75—53)

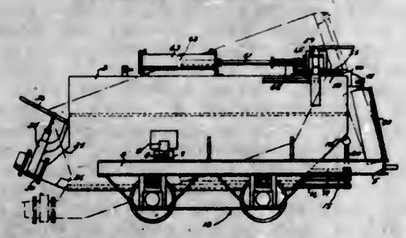
1. In the production of steel from pig iron, the step of heating molten pig iron free from lime-containing slag with fused, crystalline alumina of purity greater than 90% and producing a spinel-type, iron-aluminate slag, reacting said slag with sulphur associated with the iron and forming iron pyrites, subsequently reacting lime with the said aluminate slag and forming a lime slag, collecting the iron pyrites in the lime slag, and separating and removing the said lime slag from the metal melt.

2,593,555
APPARATUS FOR THE TREATMENT OF FILAMENTARY MATERIALS, PARTICULARLY WITH LIQUIDS
Warren H. Guy, Folsom, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application January 23, 1948, Serial No. 3,994
5 Claims. (Cl. 68—205)



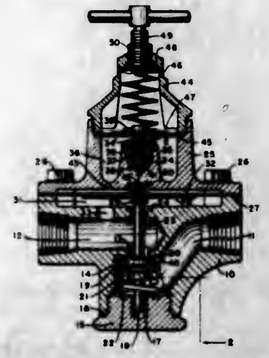
1. Apparatus for treating filamentary material with liquid comprising a thread-advancing reel having two sets of interdigitating bars, means for imparting relative motion to the bars for advancing the filamentary material in a helical path thereabout, a flexible liquid-permeable cover secured to the bars for receiving and carrying the material thereon, and conduit means inside the cover for conducting a liquid thereto, said conduit means comprising channels through at least some of the bars communicating with the cover at the juncture of the bars with the cover.

2,593,556
PORTABLE PLACER FOR CONCRETE AND THE LIKE
Roy C. Hackley, Oakland, Calif.
Application October 27, 1948, Serial No. 56,857
4 Claims. Cl. 214—83.23)



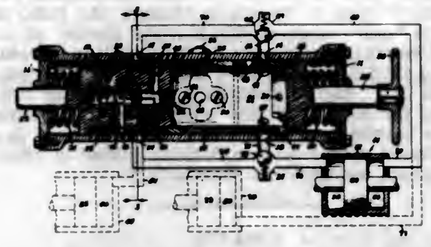
1. Portable placing apparatus of the character described comprising an elongate wheeled truck including a pair of parallel longitudinal frame members connected by a horizontal end member at right angles thereto, an elongate horizontally disposed tank pivotally mounted on said longitudinal frame members at a point approximately one-third the distance from the front end thereof and adapted to be tilted in a vertical plane longitudinally of said wheeled truck, said tank being provided with front and rear end closure members and having a feed opening, a pressure-resistant closure for said feed opening, a discharge spout disposed adjacent the bottom of the front end closure member of said tank and extending upwardly therefrom, a valve for said discharge spout, a plurality of pipes disposed adjacent the bottom of said tank and extending thereinto from the rear end thereof, said pipes being progressively shorter according to their elevation, means disposed exteriorly of said tank and connected with each of said pipes to move the material within said tank toward the front end thereof and through said discharge spout, and means for raising the rear end of said tank, said wheeled truck being adapted to receive a portion of the front end of said tank when said tank is in a tilted position, whereby the discharge spout may be horizontally disposed adjacent the plane of the surface which supports the wheeled truck.

2,593,557
PILOT CONTROLLED GAS PRESSURE REGULATOR
James K. Hamilton, Plainfield, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York
Application September 26, 1947, Serial No. 776,281
1 Claim. (Cl. 50—11)



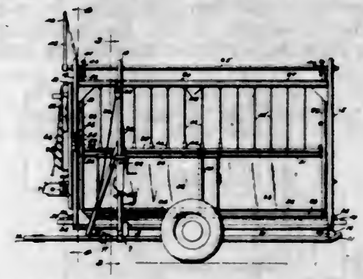
A pilot-controlled gas pressure regulator comprising a lower body portion having a high-pressure gas inlet and a reduced pressure gas outlet, an inverse type pressure reduction valve between said inlet and said outlet, an intermediate body portion having a central boss axially aligned with said pressure reduction valve, a main diaphragm supported between said lower body portion and said intermediate body portion, means operable to actuate said pressure reduction valve in response to deflection of said main diaphragm, a diaphragm chamber formed by said lower body portion and said main diaphragm, unrestricted conduit means placing said diaphragm chamber in communication with said reduced pressure gas outlet, an upper body portion coaxially and fixedly connected to said intermediate body portion, a pilot regulator diaphragm supported between said intermediate body portion and said upper body portion, an inverse type pilot regulator valve mounted in said boss, unrestricted conduit means placing said high pressure gas inlet in communication with the upstream side of said pilot regulator valve within said boss, a loading gas supply chamber formed by said pilot regulator diaphragm and said intermediate body portion, said supply chamber being on the downstream side of the pilot regulator valve and substantially surrounding the intermediate body portion boss, means operable to actuate said pilot regulator valve in response to deflection of said pilot regulator diaphragm, a main diaphragm loading chamber formed by said intermediate body portion and said main diaphragm, restricted conduit means placing said loading gas supply chamber in communication with said main diaphragm loading chamber, a bleeder passage placing said main diaphragm loading chamber in communication with said diaphragm chamber, and adjustable spring-loading means mounted in said upper body portion and acting on said pilot regulator diaphragm on the side opposite said loading gas supply chamber.

2,593,558
FLUID CONTROL VALVE
Walter L. Harbaugh, Indianapolis, Ind.
Application January 28, 1948, Serial No. 4,841
12 Claims. (Cl. 251—76)



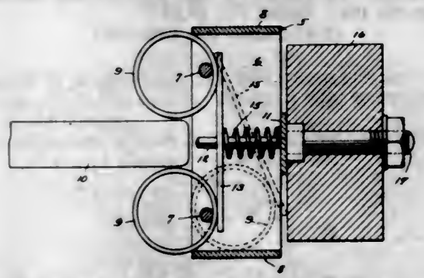
1. Valve mechanism comprising a cylinder housing provided with a radial inlet port, a radial exhaust port peripherally spaced from said inlet port, a first radial outlet port located peripherally between said inlet and exhaust ports, a second radial outlet port located peripherally between said inlet and exhaust ports, said outlet ports being on opposite sides of a plane including the axis of said housing and the axis of said inlet port, a fifth radial port and a sixth radial port peripherally spaced from each other and spaced in the direction of the axis of said housing from said inlet, exhaust, and outlet ports, and a second exhaust port spaced in the direction of the axis of said housing from all of said ports, a cylindrical valve received in said housing for axial reciprocation and oscillation relative thereto, said valve providing a first chamber and a second chamber spaced from said first chamber in the direction of the axis of said housing, means limiting reciprocation and oscillation of said valve, said valve being provided with port means opening from said first chamber and registering, in all permissible positions of said valve, with said housing inlet port and providing alternatively, upon opposite oscillation of said valve from a neutral position, communication between said housing inlet port and said housing outlet ports, said valve further having a first exhaust port opening from said first chamber and registering with said first-named housing exhaust port only when said valve is in its neutral position, said valve further having a first outlet port and a second outlet port opening radially from said first chamber, said valve outlet ports being oppositely spaced in the direction of the axis of said housing, but peripherally aligned with, said first and second housing outlet ports when said valve is in its neutral position, said valve having a fifth port and a sixth port opening from said second chamber, said last-named ports being peripherally aligned with, but oppositely spaced from said housing fifth and sixth ports, respectively, in the direction of the axis of said housing, by amounts corresponding to the spacing of said valve outlet ports from said housing outlet ports, when said valve is in its neutral position, and said valve having a second exhaust port and a third exhaust port opening from said second chamber and peripherally aligned with said second housing exhaust port but oppositely spaced therefrom, in the direction of the axis of said housing, by amounts corresponding to the spacing of said valve outlet ports from said housing outlet ports, when said valve is in neutral position.

2,593,559
ANIMAL RESTRAINING DEVICE
Laurance E. Heidenbrand, Oklahoma City, Okla.
Application September 19, 1947, Serial No. 775,049
2 Claims. (Cl. 119—99)



1. An animal restraining device comprising a main frame, pivoted animal clamping members mounted within the main frame, a stanchion mounted at the forward end of the main frame, an outer movable arm forming a part of the stanchion movable to clamp the neck of an animal, a swinging rod mounted at the forward end of the main frame adjacent to the movable arm, downwardly curved fingers mounted on the rod, said fingers being arranged in vertical spaced relation with each other, said fingers engaging said upper movable arm of the stanchion, holding the arm in its clamping position, and means for moving the animal clamping members into engagement with the sides of the animal.

2,593,560
GATE LATCH
Laurance E. Heidenbrand, Oklahoma City, Okla.
Application May 11, 1951, Serial No. 225,809
4 Claims. (Cl. 292—299)



4. In a gate latch, a frame having an open front, horizontal latch rings mounted within the open front, means for extending said latch rings beyond the open front of the frame in the path of travel of a gate, said latch rings adapted to grip a gate therebetween, one of said latch rings being movable inwardly permitting the gate to move therethrough, the opposite latch ring providing a stop limiting the movement of the gate by contact therewith.

2,593,561
METHOD OF PREPARING RICH-MIXTURE AVIATION FUEL
Walter A. Herbst and William C. Howell, Jr., Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
Application September 4, 1948, Serial No. 47,764
3 Claims. (Cl. 44—69)

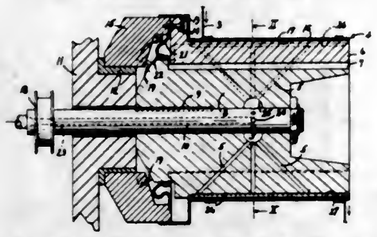
1. A method of preparing high quality, rich mixture aviation fuel which comprises fraction-

2,593,555

APPARATUS FOR THE TREATMENT OF FILAMENTARY MATERIALS, PARTICULARLY WITH LIQUIDS

Warren H. Guy, Folsom, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application January 23, 1948, Serial No. 3,994
5 Claims. (Cl. 68—205)



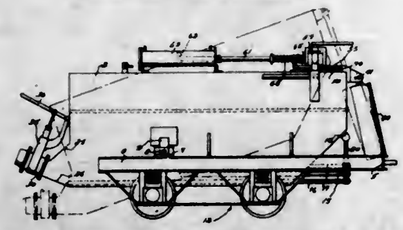
1. Apparatus for treating filamentary material with liquid comprising a thread-advancing reel having two sets of interdigitating bars, means for imparting relative motion to the bars for advancing the filamentary material in a helical path thereabout, a flexible liquid-permeable cover secured to the bars for receiving and carrying the material thereon, and conduit means inside the cover for conducting a liquid thereto, said conduit means comprising channels through at least some of the bars communicating with the cover at the juncture of the bars with the cover.

2,593,556

PORTABLE PLACER FOR CONCRETE AND THE LIKE

Roy C. Hackley, Oakland, Calif.

Application October 27, 1948, Serial No. 56,857
4 Claims. Cl. 214—83.28)



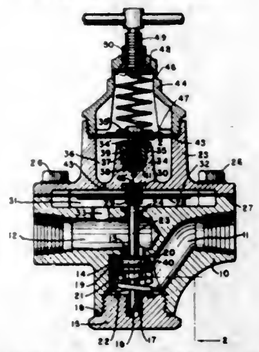
1. Portable placing apparatus of the character described comprising an elongate wheeled truck including a pair of parallel longitudinal frame members connected by a horizontal end member at right angles thereto, an elongate horizontally disposed tank pivotally mounted on said longitudinal frame members at a point approximately one-third the distance from the front end thereof and adapted to be tilted in a vertical plane longitudinally of said wheeled truck, said tank being provided with front and rear end closure members and having a feed opening, a pressure-resistant closure for said feed opening, a discharge spout disposed adjacent the bottom of the front end closure member of said tank and extending upwardly therefrom, a valve for said discharge spout, a plurality of pipes disposed adjacent the bottom of said tank and extending thereinto from the rear end thereof, said pipes being progressively shorter according to their elevation, means disposed exteriorly of said tank and connected with each of said pipes to move the material within said tank toward the front end thereof and through said discharge spout, and means for raising the rear end of said tank, said wheeled truck being adapted to receive a portion of the front end of said tank when said tank is in a tilted position, whereby the discharge spout may be horizontally disposed adjacent the plane of the surface which supports the wheeled truck.

2,593,557

PILOT CONTROLLED GAS PRESSURE REGULATOR

James K. Hamilton, Plainfield, N. J., assignor to Air Reduction Company, Incorporated, a corporation of New York

Application September 26, 1947, Serial No. 776,281
1 Claim. (Cl. 50—11)



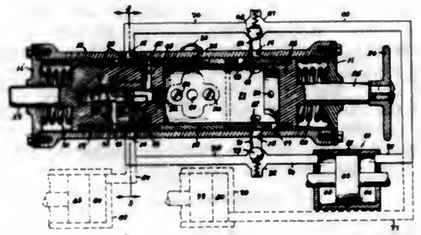
A pilot-controlled gas pressure regulator comprising a lower body portion having a high-pressure gas inlet and a reduced pressure gas outlet, an inverse type pressure reduction valve between said inlet and said outlet, an intermediate body portion having a central boss axially aligned with said pressure reduction valve, a main diaphragm supported between said lower body portion and said intermediate body portion, means operable to actuate said pressure reduction valve in response to deflection of said main diaphragm, a diaphragm chamber formed by said lower body portion and said main diaphragm, unrestricted conduit means placing said diaphragm chamber in communication with said reduced pressure gas outlet, an upper body portion coaxially and fixedly connected to said intermediate body portion, a pilot regulator diaphragm supported between said intermediate body portion and said upper body portion, an inverse type pilot regulator valve mounted in said boss, unrestricted conduit means placing said high pressure gas inlet in communication with the upstream side of said pilot regulator valve within said boss, a loading gas supply chamber formed by said pilot regulator diaphragm and said intermediate body portion, said supply chamber being on the downstream side of the pilot regulator valve and substantially surrounding the intermediate body portion boss, means operable to actuate said pilot regulator valve in response to deflection of said pilot regulator diaphragm, a main diaphragm loading chamber formed by said intermediate body portion and said main diaphragm, restricted conduit means placing said loading gas supply chamber in communication with said main diaphragm loading chamber, a bleeder passage placing said main diaphragm loading chamber in communication with said diaphragm chamber, and adjustable spring-loading means mounted in said upper body portion and acting on said pilot regulator diaphragm on the side opposite said loading gas supply chamber.

2,593,558

FLUID CONTROL VALVE

Walter L. Harbaugh, Indianapolis, Ind.

Application January 28, 1948, Serial No. 4,841
12 Claims. (Cl. 251—76)



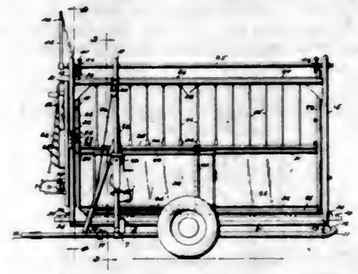
1. Valve mechanism comprising a cylinder housing provided with a radial inlet port, a radial exhaust port peripherally spaced from said inlet port, a first radial outlet port located peripherally between said inlet and exhaust ports, a second radial outlet port located peripherally between said inlet and exhaust ports, said outlet ports being on opposite sides of a plane including the axis of said housing and the axis of said inlet port, a fifth radial port and a sixth radial port peripherally spaced from each other and spaced in the direction of the axis of said housing from said inlet, exhaust, and outlet ports, and a second exhaust port spaced in the direction of the axis of said housing from all of said ports, a cylindrical valve received in said housing for axial reciprocation and oscillation relative thereto, said valve providing a first chamber and a second chamber spaced from said first chamber in the direction of the axis of said housing, means limiting reciprocation and oscillation of said valve, said valve being provided with port means opening from said first chamber and registering, in all permissible positions of said valve, with said housing inlet port and providing alternatively, upon opposite oscillation of said valve from a neutral position, communication between said housing inlet port and said housing outlet ports, said valve further having a first exhaust port opening from said first chamber and registering with said first-named housing exhaust port only when said valve is in its neutral position, said valve further having a first outlet port and a second outlet port opening radially from said first chamber, said valve outlet ports being oppositely spaced in the direction of the axis of said housing, but peripherally aligned with, said first and second housing outlet ports when said valve is in its neutral position, said valve having a fifth port and a sixth port opening from said second chamber, said last-named ports being peripherally aligned with, but oppositely spaced from said housing fifth and sixth ports, respectively, in the direction of the axis of said housing, by amounts corresponding to the spacing of said valve outlet ports from said housing outlet ports, when said valve is in its neutral position, and said valve having a second exhaust port and a third exhaust port opening from said second chamber and peripherally aligned with said second housing exhaust port but oppositely spaced therefrom, in the direction of the axis of said housing, by amounts corresponding to the spacing of said valve outlet ports from said housing outlet ports, when said valve is in neutral position.

2,593,559

ANIMAL RESTRAINING DEVICE

Laurance E. Heldenbrand, Oklahoma City, Okla.

Application September 19, 1947, Serial No. 775,049
2 Claims. (Cl. 119—99)



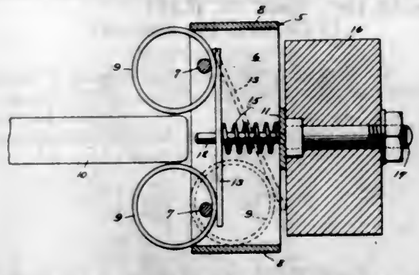
1. An animal restraining device comprising a main frame, pivoted animal clamping members mounted within the main frame, a stanchion mounted at the forward end of the main frame, an outer movable arm forming a part of the stanchion movable to clamp the neck of an animal, a swinging rod mounted at the forward end of the main frame adjacent to the movable arm, downwardly curved fingers mounted on the rod, said fingers being arranged in vertical spaced relation with each other, said fingers engaging said upper movable arm of the stanchion, holding the arm in its clamping position, and means for moving the animal clamping members into engagement with the sides of the animal.

2,593,560

GATE LATCH

Laurance E. Heldenbrand, Oklahoma City, Okla.

Application May 11, 1951, Serial No. 225,809
4 Claims. (Cl. 292—299)



4. In a gate latch, a frame having an open front, horizontal latch rings mounted within the open front, means for extending said latch rings beyond the open front of the frame in the path of travel of a gate, said latch rings adapted to grip a gate therebetween, one of said latch rings being movable inwardly permitting the gate to move therethrough, the opposite latch ring providing a stop limiting the movement of the gate by contact therewith.

2,593,561

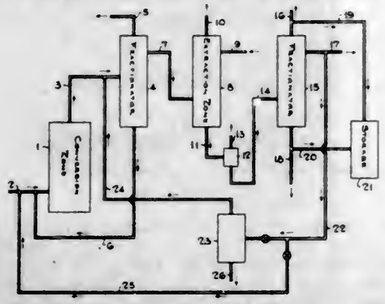
METHOD OF PREPARING RICH-MIXTURE AVIATION FUEL

Walter A. Herbst and William C. Howell, Jr., Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

Application September 4, 1948, Serial No. 47,764
3 Claims. (Cl. 44—69)

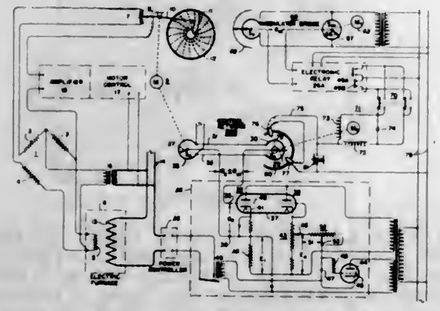
1. A method of preparing high quality, rich mixture aviation fuel which comprises fraction-

ating an aromatic hydrocarbon-containing gasoline fraction to obtain a fraction containing C_8 and C_9 inclusive aromatic hydrocarbons, including ethyl benzene, ortho, meta, and para xylene, mesitylene and pseudocumene, extracting the said aromatic hydrocarbons from the non-aromatic hydrocarbons in the C_8–C_9 fraction, removing from said extracted aromatic hydrocar-



bons the ortho-substituted C_8 and C_9 aromatic hydrocarbons, and blending the remaining aromatic hydrocarbons with aviation gasoline base stock having a lower octane number than any one of the aromatic hydrocarbons blended therewith to obtain a gasoline containing less than 6 weight per cent of ortho constituents based on the total aromatic hydrocarbons present in the blend.

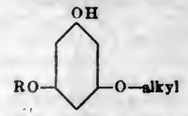
2,593,562
CONTROL SYSTEM
Anthony J. Hornfeck, Lyndhurst, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Original application June 6, 1946, Serial No. 674,752. Divided and this application December 29, 1948, Serial No. 68,027
25 Claims. (Cl. 236—46)



1. A furnace control system comprising a furnace; a heater for said furnace; a relay for "on" and "off" control of the heater; a temperature measuring system for said furnace including a network having an element responsive to furnace temperature adapted to unbalance the same and rebalancing means for the network including a reversible motor for indicating the degree of unbalance and hence the temperature; a balanceable control bridge having connected potentiometers each with a slider, a source of alternating current for energizing the bridge; one slider being connected for movement by said motor; means to adjust the other slider to determine a standard temperature for the furnace; a conjugate conductor connecting said sliders to provide an A.-C. signal potential of reversible phase; phase sensitive means adapted to close said relay when the furnace temperature is below said standard and to open the relay when the temperature is above said standard; means to produce an A.-C. signal potential whose rms value periodically cycles at a slow rate between zero and a maximum with alternate cycles "in" and "out" of phase with said first signal potential; means to manually change the ratio of "in" to "out"; a reversible electric motor; phase sensitive means in control of the direction of rotation of said last mentioned motor; said last mentioned A.-C. signal producing means being connected for control of said phase sensitive means, and a mechanical connection between said last mentioned motor and said other slider to effect a program temperature standard.

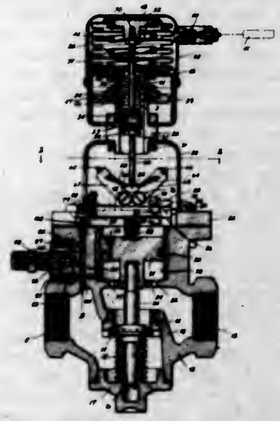
2,593,563
PHLOROGLUCINOL DERIVATIVES
Max N. Huffman, Dallas, Tex.
No Drawing. Application May 2, 1949, Serial No. 91,015
1 Claim. (Cl. 260—613)

Phloroglucinol derivatives having the formula:



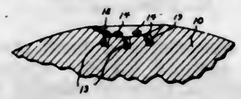
in which R is an alkyl radical containing six carbon atoms.

2,593,564
PILOT OPERATED VALVE
Clifford B. Ives, St. Louis County, Mo., assignor to Alco Valve Company, University City, Mo., a corporation of Missouri
Application November 16, 1944, Serial No. 563,646
14 Claims. (Cl. 137—153)



1. In a valve apparatus, a valve housing having an inlet and an outlet, valve operating mechanism including a main valve and fluid pressure-responsive motive means for operating the valve, a conduit connecting one side of the motive means to the inlet, a pilot valve for controlling said conduit whereby the main valve is opened when the pilot valve is opened admitting inlet pressure to the motive means, a yieldable connection between the pilot valve and the valve operating mechanism, including a spring under compression normally urging both the main valve and the pilot valve open, power means to operate the pilot valve, said power means including a yieldable member opposed to the action of the compression spring, but operable to permit the pilot valve to open under force of the spring, and the main valve to be opened as a consequence, opening of the main valve being adapted to reduce the pressure of said spring.

2,593,565
BOWLING BALL
John A. Juza, Spencer, Iowa
Application October 10, 1949, Serial No. 120,543
3 Claims. (Cl. 273—63)



1. In a bowling ball having at least two finger receiving wells therein for engaging the thumb and at least one other finger of a bowler, the combination of at least one finger-tip-engaging shallow depression in the spherical surface of the ball for positioning one of the remaining fingers, the ball being provided with at least one small shallow bore extending inwardly from the surface of said depression and acting as a suction cup for engagement with a finger tip positioned in said depression.

2,593,566
METHOD AND COMPOSITION FOR COLORING EGGS
Harry Frank Kamp, Cincinnati, Ohio
No Drawing. Application January 29, 1949, Serial No. 73,667
9 Claims. (Cl. 106—129)

5. An egg coloring material consisting entirely of in proportion approximately one-hundred pounds of comminuted gelatine, approximately two and three-fourths to five and one-half pounds of a comminuted water soluble color, and approximately nine pounds of a comminuted gum in the form of gum arabic and gum tragacanth.

6. The method of coloring eggs comprising one part by weight of a dry mixture consisting entirely of in proportion approximately one-hundred pounds of comminuted gelatine and approximately two and three-fourths to five and one-half pounds of a water soluble color ingredient dissolved in water approximately four times the weight of the dry mixture and hot enough to dissolve the same, allowing the solution to cool and gell, and making contact between the shell of the hot egg and gelled coloring mass.

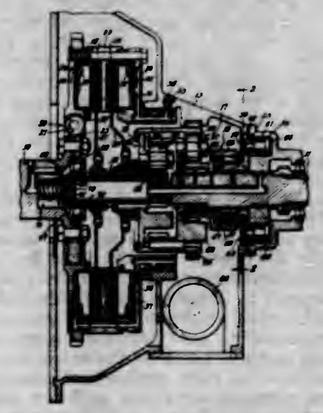
2,593,567
CLOTHES RACK ATTACHMENT FOR SECUREMENT TO BEDS
Tyson O. Keck, Kokomo, Ind.
Application April 14, 1950, Serial No. 155,964
1 Claim. (Cl. 211—86)

A rack attachment for one of the side rails of a bed comprising a supporting means fixedly attachable to said side rail at selected locations taken longitudinally of the rail, said means including a clamp, means for fixedly connecting the clamp to said rail, a sleeve rigid with the clamp and being disposed perpendicularly of the rail to extend inwardly therefrom, there being a longitudinal slot formed in the sleeve opening upon the inner end of the sleeve, and a stop abutment on the outer end of the sleeve; an article support including a rod mounted in the sleeve to slide inwardly of the side rail, said rod having a flattened head on its inner end engageable in the slot to constitute means for preventing rotation of the rod relative to the sleeve in selected positions to which the rod is slidably adjusted within the sleeve, said abutment engaging the head of the rod on slidable movement of the rod inwardly of the rail to one extreme position thereof whereby to hold the rod against complete separation from the sleeve, said head being shiftable out of the slot on movement of the rod inwardly of the rail to an opposite extreme position whereby to free the rod for rotation relative to the sleeve, a post rigid with the outer end of the rod, said



post being arranged perpendicularly to the rod and being swingable between vertical and horizontal positions responsive to rotation of the rod, and an article hanger mounted on the post; and a bracket adapted for fixed connection to the rail in spaced relation to said supporting means, said bracket including a pair of plates connectable to the rail and a depending supporting hook rigid with said plates, said hook being located in the plane of swinging movement of the post to engage and support the post close to and in parallelism with said rail in the horizontal position of the post.

2,593,568
TRANSMISSION
Donald W. Kelbel, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application March 2, 1946, Serial No. 651,448
11 Claims. (Cl. 74—759)



1. In transmission mechanism, the combination of a drive shaft, a driven shaft, gearing for providing a power train between said shafts including a reaction member for completing the power train when braked, braking mechanism for said reaction member, said mechanism being

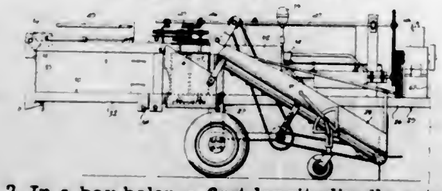
self-engaging simultaneously for either direction of transmission of power from said drive shaft to said driven shaft or vice versa and having a neutral condition, means for selectively limiting the braking mechanism to engage for only one of said directions of transmission of power and keeping it in its neutral condition for the other direction, and means for selectively limiting the braking mechanism to engage for only said other direction of transmission of power and keeping it in its neutral condition for said one direction of transmission of power.

2,593,569

FRAME STRUCTURE FOR HAY BALERS

James B. Kelley, Jr., San Antonio, Tex., assignor, by direct and mesne assignments, of one-third to Harold Gurinsky, and nine-thirtieths to C. M. Kelley, both of San Antonio, Tex., and one-thirtieth to Floyd McGown and Floyd McGown, Jr., jointly

Application February 15, 1949, Serial No. 76,623
4 Claims. (Cl. 100—19)



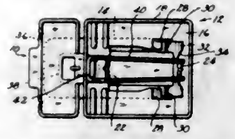
2. In a hay baler, a first longitudinally extending main frame, a horizontally disposed bottom frame arranged longitudinally of said first frame adjacent one end of the latter and connected at one end to said main frame for rocking movement on a horizontal axis from a horizontal position to a position at an angle with respect to said horizontal position, a second horizontally disposed top frame positioned in superimposed longitudinal spaced relation with respect to said bottom frame and having one end fixedly secured to said main frame, a vertically disposed plate arranged transversely of said bottom and top frames adjacent the other ends thereof and having its upper end connected to said top frame adjacent the other end thereof for swinging movement about a horizontal axis into and out of engagement with the other end of said bottom frame, an upstanding abutment fixedly projecting from the upper end of said plate, said plate together with said bottom and top frames forming a longitudinally extending chamber for receiving hay to be compacted into a bale, interengaging means on the lower end of said plate and the other end of said bottom frame for releasably holding said bottom frame in its horizontal position, a bolt on said top frame adjacent the other end normally engageable with said abutment and mounted for longitudinal movement toward and away from said abutment, hand actuable means operatively connected to said bolt for effecting the longitudinal movement of said bolt toward said abutment to thereby retain said base frame in its horizontal position, spring means operatively connected to said bolt for urging said bolt towards its normal position for engagement with said abutment, a ram positioned longitudinally of said main frame adjacent said one end of the latter and mounted on said frame for longitudinal reciprocatory movement into and out of said one end of said baling chamber for compressing and pushing the compressed hay toward said plate, and means operatively connected to said ram for effecting the reciprocatory movement of the latter.

2,593,570

HASP

William O. Kirkpatrick, Milwaukee, Wis., assignor to E. R. Wagner Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin

Application September 12, 1950, Serial No. 184,402
5 Claims. (Cl. 292—209)



1. A hasp comprising a hasp plate having a top with an opening therein, a spring holding member depending from an edge of said opening and having notches in the opposite edges thereof, a hasp pivoted to said plate and having a portion extending through said opening to provide a camming lug below said top, and a spring having spaced legs which straddle said member and are inherently biased into said notches to form a fulcrum connection between said member and spring whereby said spring is held in place by said member with its legs in operative engagement with said lug.

2,593,571

METHOD OF FORMING SHEET METAL WITH LOW-MELTING DIES

Fred A. Klemach, Ann Arbor, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

No Drawing. Application January 20, 1948, Serial No. 3,370
2 Claims. (Cl. 113—51)

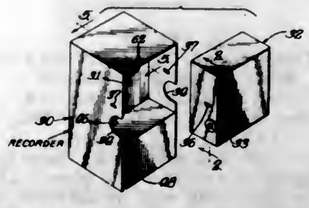
1. The process of die forming sheet metal products comprising fabricating a die from an alloy melting below the boiling point of water, supercooling the die prior to use to a temperature at least as low as —200° F. and maintaining the die below the temperature of —200° F. during the forming operations.

2,593,572

COIN OR TOKEN DISCHARGE MECHANISM FOR MAILABLE RECORD MAGAZINES

Fred Krahulec, Skokie, Ill., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois

Application October 29, 1948, Serial No. 57,328
13 Claims. (Cl. 346—25)



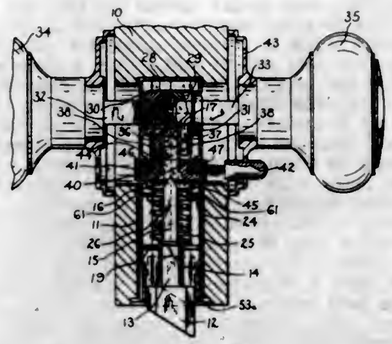
1. In an indicating device, means for receiving and retaining a readily removable and replaceable portion, a readily removable and replaceable portion for disposition in said first mentioned means, coin or token discharge means including a coin retaining chamber forming a part of said device, means for retaining one or more coins or tokens in said chamber, and magnetic means forming a part of said device responsive to the disposition of said readily removable and replaceable portion in said first mentioned means for actuating said last mentioned means whereby a coin or token disposed in said chamber is released.

2,593,573

DOOR LATCH

Nathan Kulbersh, West Haven, Conn., assignor to Sargent & Company, New Haven, Conn., a corporation of Connecticut

Application January 22, 1948, Serial No. 3,669
4 Claims. (Cl. 292—169)



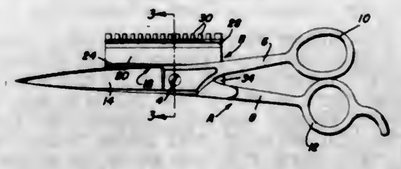
1. A door latch comprising a case, a bolt reciprocably mounted therein, means for operating said bolt including a pair of rollbacks rotatably mounted in the case, means to dog either of said rollbacks against rotation, said means comprising a member slidably mounted in the case and having a part normally standing between said rollbacks, means for moving said member in either direction from its normal position to dog either of said rollbacks as desired, and means to move said member to its normal position from either of its dogging positions when the bolt is retracted.

2,593,574

HAIR TRIMMING ATTACHMENT FOR SHEARS

Arthur E. La Crosse, Springfield, Ill.

Application April 9, 1951, Serial No. 220,042
1 Claim. (Cl. 30—30)



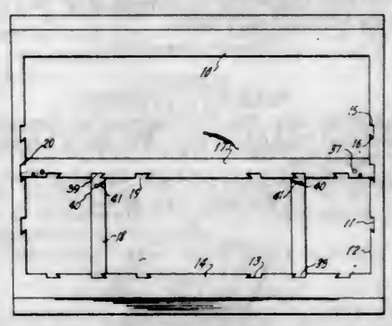
In a structure of the class described, an open ended channel-shaped sheath embodying opposed members, one of said members having a toothed guard, an insertable and removable safety razor blade fitted in said sheath and having its cutting edge coacting with said guard, and an adapter and attaching plate carried by said sheath, said plate being substantially rectangular and having one edge portion fastened to one of the members of said sheath adjacent to said guard, the opposite edge portion being transversely slit and providing attaching members.

2,593,575

PRINTING CHASE

Chester L. Lance, Dallas, Tex.

Application March 5, 1948, Serial No. 13,130
9 Claims. (Cl. 101—393)



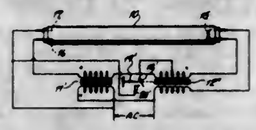
1. A printing chase including, a chase frame having recesses in its inner face, each recess having a right-angular seat at one end and a chamfer at its opposite end, a cross bar having shoulders at each end engaging the seats of the frame recesses, detents pivoted at the ends of the bar having tenons engaging the chamfers of the frame recesses, and movable elements in the bar engaging the detents and depressing them.

2,593,576

FLUORESCENT LAMP CIRCUIT

Luis G. Legorreta, Eduardo Posada, and Fernando Camarena, Mexico City, Mexico, assignors to Electrol S. A., Mexico City, Mexico, a Mexican corporation

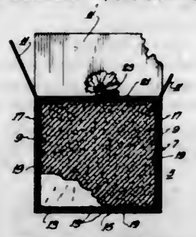
Application May 28, 1949, Serial No. 96,028
In Mexico October 16, 1948
3 Claims. (Cl. 315—266)



1. A circuit for operation of gas-filled fluorescent lamps comprising the combination of a gas-filled fluorescent lamp having a filamentary cathode at one end and first and second adjacent anodes at the other end thereof, a transformer having a primary and a secondary winding, said first anode being connected to one end of said primary winding and said second anode being connected to the oppositely-phased end of said secondary winding, and a combined relay-inductance having a first tapped winding and a second winding wound on a common core and including an armature and contacts separated by magnetic attraction between the core and armature when current flows in said relay inductance windings but the armature being biased to bring the contacts into engagement normally in the absence of current flow in said relay inductance windings, said contacts when in engagement connecting the tap of said first tapped winding with said first anode, the free end of said transformer secondary winding being connected to the free and oppositely-phased end of said primary transformer winding through said first tapped winding, said filamentary cathode and said second relay inductance winding in series in the order named, whereby when an A. C. potential is applied to said transformer primary winding said fluorescent lamp is caused to light due to the trans-

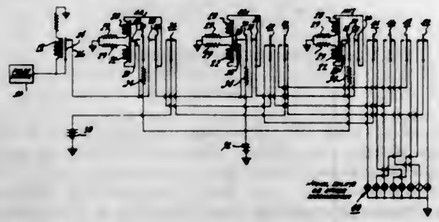
former action of said relay inductance, said engaged contacts thereupon disengage due to the current passing through the windings of said relay inductance, and said fluorescent lamp thereafter remains lighted without stroboscopic effect due to the full-wave rectification of the current flowing through said lamp.

2,593,577
POULTRY FEEDING
Dan Lewis, Danville, Ill., assignor to Consolidated Products Company, Danville, Ill., a corporation of Nebraska
Application August 10, 1950, Serial No. 178,684
8 Claims. (Cl. 99—4)



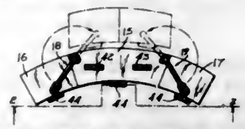
1. A feeding unit for poultry comprising a coherent, plastic block of poultry feed material having substantial shape-sustaining properties, and containing a substantial amount of moisture, said block being enclosed in a rigid container having a wall in which a feed opening can be readily made.

2,593,578
RELAY COUNTING CIRCUIT
Edwin R. Liberg, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 15, 1949, Serial No. 115,865
4 Claims. (Cl. 175—320)



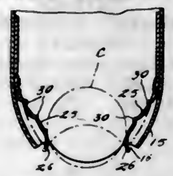
1. A relay counter comprising a plurality of relays, each of said relays having a pair of opposing coil windings, first and second normally closed contacts, said first contact being connected in series with one of said pair of opposing windings, a third contact positioned to engage said first contact when said relay is operated, means to apply a bias to said third contact to maintain said relay operated when said first and and third contacts are closed and the other of said pair of opposed windings is not energized, and first and second normally open contacts, said first normally open contact being connected to the other of said pair of opposing coil windings, means to impress pulses simultaneously upon said second normally closed contact and said second normally open contact of a first one of said plurality of relays, each one of the remainder of said plurality of relays having its second normally closed contact and its second normally open contact connected to the first normally open contact of the preceding one of said plurality of relays.

2,593,579
PORTABLE RADIO RECEIVING SET
Milton Lichaw, Brooklyn, N. Y.
Application October 19, 1948, Serial No. 55,260
2 Claims. (Cl. 312—7)



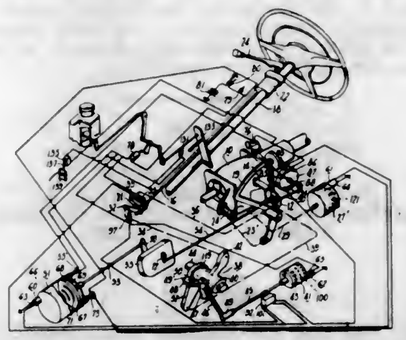
2. In a portable receiver having adjacent cabinet units, and inverted U-shaped bridge extended over the adjacent contacting edges of the cabinet units, said bridge having the free end of one of its side arms turnably attached to one of the cabinet units, a fitment rotatively mounted on the other side arm of said bridge, a plate secured to the top face of the other of the cabinet units, an outwardly directed flange formed on the free end of the other of said arms and partially recessed into the bottom face of said fitment and having its bottom face resting on the top face of said plate, said fitment having a laterally extending flange formed with an aperture, a screw having a head portion engaging the top of said flange of said fitment and a reduced intermediate portion rotatively extended into said aperture, and a threaded shank portion depending from said reduced intermediate portion of said screw and threadedly engaging said plate, whereby said screw can be turned to clamp the flange of said bridge between said fitment and the top of said plate holding the said other cabinet unit against rotation relative to said bridge, said flange of said fitment having an undercut cavitation in its bottom face, and a spring washer engaged concentrically upon said shank portion within said cavitation and operating between the adjacent faces of said intermediate portion and said plate.

2,593,580
SPRING COIN HOLDER
Joseph Loevenich, New York, N. Y.
Application May 17, 1948, Serial No. 27,481
1 Claim. (Cl. 133—6)



A coin holder comprising a housing including a pair of spaced apart elongated flat plates, right angular flanges formed along the opposite longitudinal edges of one of said plates with the end portions thereof curved inwardly to form a mouth, the other of said plates being formed with right angular flanges along the major portion of the opposite longitudinal edges thereof, said latter flanges engaging within said first mentioned flanges, an inwardly bowed resilient retaining finger formed integral with one end of each of the flanges on said other plate said other plate having a cut away portion between said resilient retaining fingers and the adjacent portion of the plate, said retaining fingers being disposed inwardly of said mouth forming curved portions, and a plurality of transverse inwardly extending beads formed in each of said retaining fingers adapted to overlie the adjacent longitudinal edges of said other plate when said retaining fingers are sprung outwardly to their fullest extent against said curved flange portions whereby said fingers are prevented from being caught on said adjacent longitudinal edges.

2,593,581
TRANSMISSION OPERATING MECHANISM
Richard H. Long and Edwin E. Prather, South Bend, Ind., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 1, 1948, Serial No. 47,286
9 Claims. (Cl. 192—.073)



1. Manually and power operated control means adapted to operate the transmission and clutch of an automotive vehicle including a gear shift lever, force transmitting means, including a latch mechanism, connected with the gear shift lever and adapted to be connected to the transmission, a transmission operating fluid pressure motor, force transmitting means connected with the latter motor and adapted to be connected to the transmission, a clutch operating fluid pressure motor, force transmitting means connected with the latter motor and adapted to be connected with the clutch, a latch operating fluid pressure motor, force transmitting means interconnecting the latter motor with the latch mechanism; and means, operative after the shift lever is placed in a certain position, for controlling the operation of said three motors to alternately effect first one and then the other of two settings of the transmission, to operate the clutch to facilitate said operations of the transmission, and to operate the latch mechanism to immobilize the gear shift lever when the transmission is being power operated and to connect the gear shift lever to the transmission when the latter is to be manually operated, said control means including valve means for controlling the transmission operating motor, valve means for controlling the clutch operating motor, and valve means for controlling the latch operating motor; and means for controlling the operation of the said valves including, in series, a manually operated cutin switch and a switch adapted to be operated by the accelerator of the vehicle, and further including a governor operated single pole double throw switch mechanism including two switches, a motor operated selector switch mechanism including two switches one of said two switches being connected in series with one of the two switches of the governor operated switch mechanism and the other of the two switches of the motor operated selector switch mechanism being connected with the other of the two switches of the governor operated switch mechanism, a switch operated by the latch operating motor, and a valve operating solenoid, said switches being operative, together with the remainder of the controls cooperating therewith, to effect the aforementioned second and high gear power operation of the transmission; and electrical means for controlling the operation of the latch motor said operation facilitating the operation of the latch mechanism in its operation of reconnecting the gear shift lever with the transmission.

2,593,582
PROCESS FOR PRODUCING TETRAFLUOROETHYLENE POLYMER COMPOSITIONS
John Frank Lontz, Nutley, and Lester Eugene Robb, Rutherford, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 30, 1950, Serial No. 171,536
5 Claims. (Cl. 260—33.6)

1. A process for preparing a non-aqueous pressure-coalescing composition which comprises contacting dry tetrafluoroethylene polymer particles of colloidal size with an atmosphere comprising a mist of at least one essentially saturated hydrocarbon having a boiling point of 220° C. to 400° C. at atmospheric pressure from the group consisting of aliphatic and cycloaliphatic hydrocarbons, and intimately mixing said polymer particles and hydrocarbon mist until a uniform intimate mixture is obtained in the form of a dry, free-flowing powder, the weight of said hydrocarbon being from 15% to 30% of the combined weight of said tetrafluoroethylene polymer and hydrocarbon.

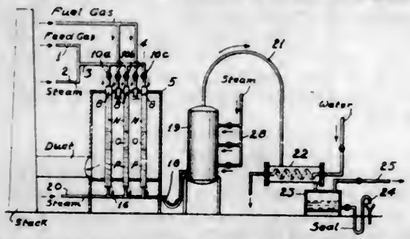
2,593,583
METHOD FOR COAGULATING AQUEOUS DISPERSIONS OF POLYTETRAFLUOROETHYLENE
John F. Lontz, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 14, 1951, Serial No. 215,643
3 Claims. (Cl. 260—92.1)

1. In a process for preparing tetrafluoroethylene polymer articles, the steps which comprise imparting energy to an aqueous colloidal dispersion consisting essentially of water and tetrafluoroethylene polymer, which dispersion is stable on storage and which has a tetrafluoroethylene polymer content of 10% to 50% by weight, by means of internal rotary stirring in opposition to baffles, said imparting of energy being effective throughout a major part of the said dispersion, the temperature of the dispersion being from 32° F. to 185° F., the amount of power thus supplied to the dispersion being in the range of 0.02 to 1.00 horsepower per gallon of the dispersion, whereby particles of tetrafluoroethylene polymer coagulate, and removing the said coagulated particles from the mixture, whereby there is formed a free-flowing granular product which can be consolidated under pressure and converted to a sintered article by heating at a temperature of 621° F. to 932° F.

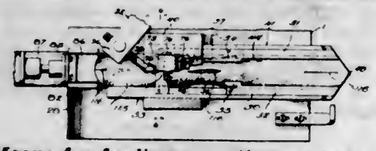
2,593,584
REFORMING HYDROCARBON GASES IN THE PRESENCE OF A MAGNESIA CATALYST
Charles S. Lynch., Plainfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 1, 1948, Serial No. 62,838
11 Claims. (Cl. 252—373)

1. In the process of producing gas mixtures containing H_2 and CO in a ratio below 3:1 by

converting a hydrocarbon gas with an oxidizing gas containing a major proportion of CO_2, the improvement which comprises contacting a mixture of said hydrocarbon gas and said oxidizing gas at a conversion temperature of about 1400°–1800° F. with a catalyst consisting of magnesia.

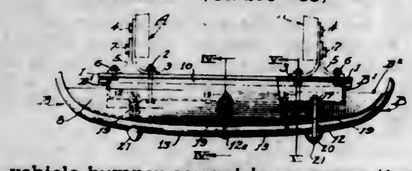


2,593,585
WEB FEEDING MEANS FOR CUTTING MACHINES
Frederick K. Madgwick, Upper Darby, and Joseph A. Silvaggio, Philadelphia, Pa.
Application January 11, 1946, Serial No. 640,632
3 Claims. (Cl. 271—2.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



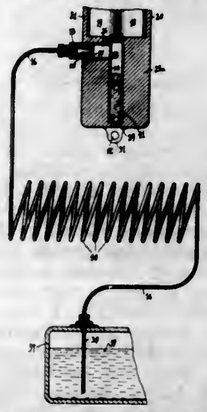
1. Means for feeding a continuous web of material provided with a series of longitudinal slits to an operational means in synchronization therewith, said feeding means including a guide having a flat bottom and longitudinally extending portions at the sides thereof and spaced from the flat bottom forming a partly inclosed channel for said web, means associated with the channel for engaging the side edges of the web and restricting the width of the channel and pressing the side edges toward each other to form an upwardly-extending transverse arch in the web and thereby separating the edges of the slit in the material in the channel, and reciprocating finger means extending between the longitudinally extending portions of the channel for engaging the wall of a slit in the region of the arch.

2,593,586
BUMPER
John Rudolf Maag, San Francisco, Calif.
Application June 27, 1950, Serial No. 170,527
1 Claim. (Cl. 293—85)



A vehicle bumper comprising a supporting bar securable to a vehicle chassis and extending from side to side of the chassis; a stationary casing U-shaped in cross section and having a length substantially equal to the length of the bar, the sides of the casing being disposed in a horizontal plane and abutting the bar; bolts securing the casing to the bar; a movable casing U-shaped in cross section and telescoping over the closed side of the stationary casing so as to be slidably supported thereby and having a length substantially equal to the width of the vehicle body; an impact bar extending along the closed side of the movable casing; bolts for securing the impact bar to the movable casing and extending through aligned openings in the closed sides of the movable and stationary casings; coil springs encircling the bolts and being enclosed in the movable casing, the ends of the springs bearing against the closed sides of the movable and stationary casings; and nuts secured to the inner ends of the bolts and bearing against the closed side of the stationary casing for limiting the outward movement of the movable casing with respect to the stationary casing and caused by the springs; the two casings providing housings for the bolts and springs that extends at least across the width of the chassis.

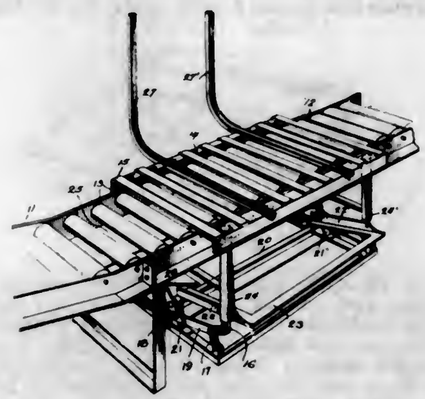
2,593,587
DISTANT READING LIQUID RESERVOIR GAUGE
Nathan Marcus, Union City, N. J.
Application April 20, 1948, Serial No. 22,226
5 Claims. (Cl. 73—302)



1. In a distant reading gauge for a closed liquid reservoir, a reading tube, a closure disk for the upper end of the tube, permeable to air but impermeable to a heavy fluid, like mercury, an indicating fluid container having a wider vertical leg and a norrow horizontal bore starting at the lower part of said leg, the lower end of said tube communicating with said horizontal bore, and being spaced apart from said leg, means to close the upper end of said leg, a narrow pipe leading from the upper part of said leg into said liquid reservoir adjacent to its bottom, a heavy fluid, like mercury, in said indicating fluid container, a closure disk permeable to air but impermeable to a heavy fluid for the opening of said pipe into said vertical leg, and an air pump communicating with the upper end of said reading tube adapted to blow air thereinto through said upper disk.

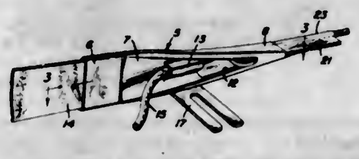
2,593,588
WORKSTAND
William E. McDonald, Salt Lake City, Utah
Application September 7, 1945, Serial No. 615,061
8 Claims. (Cl. 100—31)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a conveyer of the type comprising a frame, rollers carried by said frame and a power-driven endless belt in frictional engagement with the lower surfaces of said rollers: a stand straddling said frame and comprising vertically movable non-rotating load-supports parallel to said rollers between and spaced from said rollers for lifting a load above and out of contact with the conveying surfaces of said rollers, vertical reciprocatory means laterally spaced from said rollers and belt for vertically moving said



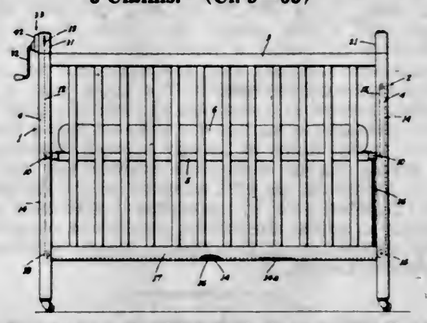
load-supports, said means being operable independently of and without affecting the movement of said rollers and operation of said belt, and means affixed to said frame for positively urging said stand upwardly relative to said frame; whereby a load conveyed by said rollers to a position above said stand may be lifted by said stand above and out of contact with said rollers, and whereby said load-supports may be retracted within the spaces between adjacent rollers.

2,593,589
CORDING ATTACHMENT FOR SEWING MACHINES
John C. McIntyre, Ticonderoga, N. Y.
Application November 23, 1949, Serial No. 128,938
2 Claims. (Cl. 112—139)



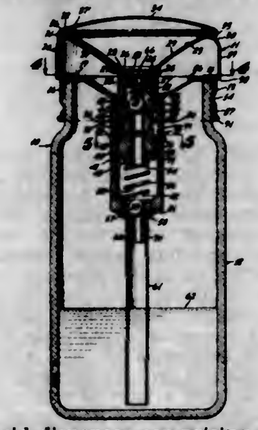
1. A welting attachment for sewing machines comprising a hollow elongated guide having a flat tape receiving guide at one end and a folded tape delivery guide at its opposite end and also having a tape folding intermediate portion of hollow channel shape gradually tapering toward the delivery guide and including inner and outer walls, said tape folding intermediate portion having an opening in the inner wall thereof exposing the tape, a cord guide tube in the tape folding intermediate portion on the inner wall thereof and at the rear of said opening for guiding a cord into the opening to the exposed tape, and a resilient shoe fixed to said inner wall in said intermediate portion and projecting into the opening for pressing the cord against the tape exposed through said opening as it passes through the delivery guide.

2,593,590
CRIB ACTUATING MECHANISM
Walter J. McNabb and William R. Cochrane, Delhi, Calif.
Application May 21, 1949, Serial No. 94,716
3 Claims. (Cl. 5—63)



1. In a baby crib which includes a vertically adjustable mattress frame, and a simultaneously adjustable cable system suspending the mattress frame in the crib; said cable system including a plurality of cables disposed mainly within the confines of structural members of the crib, the latter including an end board, control leads of the cables extending to a substantially common point on the end board for simultaneous adjustment, and a hand crank actuated drum unit mounted on the end board at said point in connection with all of said control leads of the cables; the end board including a top rail, there being a recess in the top rail intermediate its ends and grooves in communication with the recess from opposite sides, the drum unit including a drum assembly in said recess, and said control leads of the cables extending through said grooves to connection with the drum assembly; the recess and grooves being enclosed and the shaft of the crank extending horizontally outward from the recess lengthwise of the crib whereby said crank is disposed exteriorly of the end board adjacent the top thereof and intermediate its sides.

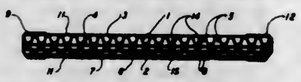
2,593,591
ADJUSTABLE AUTOMATIC FLUID DISPENSER
Benjamin David Menkin, Los Angeles, and Frank M. Darling, Pasadena, Calif.
Application January 14, 1949, Serial No. 70,824
13 Claims. (Cl. 222—205)



1. In a fluid dispenser comprising a container, cylinder means removably mounted upon said

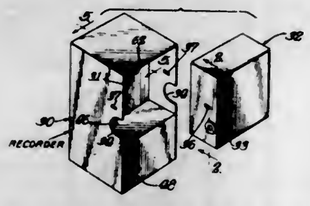
container and depending thereinto, piston means mounted for reciprocation within and normally projecting yieldably upwardly beyond said cylinder means and including axially spaced abutments, said cylinder and piston means defining a continuous communicating fluid passage therethrough, valve means in said cylinder means and said piston means, the latter means being effective to pump a fluid upwardly from said container through said passage, and an axially ported cup disposed at the upper end of said piston means in a position to receive a flow from said passage: a wall of the cylinder being formed with radial holes in axially spaced relationship, a spring clamp clampable around the cylinder and including an end adapted to be carried in any selected hole for engagement with said abutments to adjust the extent of relative reciprocating movement of the piston means within the cylinder means.

2,593,592
GRILL
Richard D. Miller, Pasadena, Calif.
Application October 11, 1946, Serial No. 702,631
7 Claims. (Cl. 99—446)



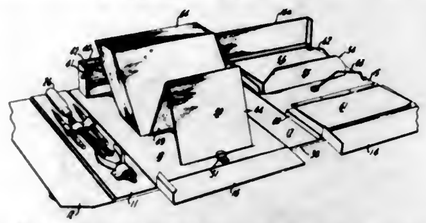
7. A cooking mat for absorbing grease comprising a corrugated sheet faced with flat sheets, the sheets being adapted to absorb the grease, a heat-reflecting metal foil covering at least one of the flat sheets, the foil being perforated to permit liquids exuded from food during the cooking on the mat to be absorbed in the mat, and means for holding the sheets and foil together.

2,593,593
MAILABLE MAGAZINE TYPE RECORDER WITH COIN RELEASE MECHANISM
Arthur C. Nielsen, Winnetka, Ill., assignor to A. C. Nielsen Company, Chicago, Ill., a corporation of Illinois
Application October 29, 1948, Serial No. 57,294
4 Claims. (Cl. 312—94)



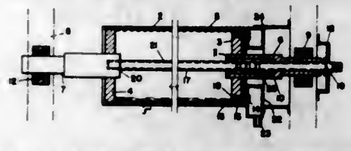
1. A recording device including means defining a magazine receptacle, said recording device including a mailable record magazine insertable into said receptacle and means for producing record indications on a record receiving element in said recording device, means responsive to the insertion of said magazine into said receptacle for rendering said recording means effective to produce record indications on said element, said record receiving element being disposed in said magazine at least after said record indications are on said element, coin releasing means forming a part of said recording device, means for retaining one or more coins or tokens in said coin releasing means, and coin release actuating means in said recording device responsive to substantially complete insertion of said magazine into said receptacle for actuating said coin release means whereby a coin or token is released from said recording device.

2,593,594
KIT FOR SORTING CARDS
Merrill C. Nolan, Washington, D. C., assignor to The McBee Company, Athens, Ohio, a corporation
Application August 8, 1949, Serial No. 109,108
6 Claims. (Cl. 129—1)



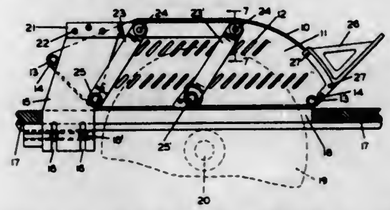
1. A kit of the character described adapted to posting and sorting of marginally perforated ledger cards and the like, comprising a housing having top and bottom portions adapted to enclose the contents of the kit when folded and to provide a base therefor when unfolded, a foldable ledger tray foldable within the kit and hingedly connected to the housing and unfoldable to provide a support for a stack of ledger cards during posting operations, and an alignment member arranged in side-by-side relationship with said ledger tray, said alignment member being hingedly connected to the housing and being foldable within the kit and including means for supporting it at a suitable angle and guide means along one edge thereof for aligning a stack of cards supported thereon.

2,593,595
APPARATUS FOR CHILLING WEBS
Bernard Offen, Chicago, Ill.
Application April 8, 1948, Serial No. 19,783
18 Claims. (Cl. 257—95)



1. In apparatus of the character described, the combination of a cylindrical hollow shell, said shell including spaced circular end walls, a cylindrical wall connecting the end walls, spindles extending from the end walls adapted to be rotatably supported in the framework of the apparatus, at least one of said spindles being hollow and having a recess therein, piping extending through said hollow spindle and into the interior of the shell to supply fluid to cool the shell, means for securing the piping in fixed position, at least one end wall of the shell having a plurality of spaced openings extending therethrough, nozzles adjacent said openings, the openings being spaced a predetermined distance radially inward from the cylindrical wall to control the level of fluid within the shell, said piping having a plurality of U-shaped grooves extending about its exterior surface adjacent the spindle recess, said grooves serving to collect fluid to permit the collected fluid to drip into the spindle recess and to return to the interior of the shell, and an annular drain box disposed at one end of the shell through which the piping and a spindle passes, said drain box enclosing the nozzles and serving to receive cooling fluid draining through the nozzles.

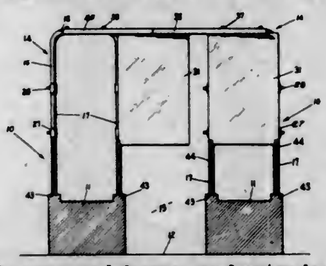
2,593,596
CIRCULAR SAW GUARD
George V. Olson, La Crosse, Wis.
Application March 24, 1949, Serial No. 83,183
1 Claim. (Cl. 143—159)



A guard of the character described to be used in combination with a circular saw and table, said guard consisting of an enclosure constructed of a top plate and a pair of vertically disposed spaced parallel side plates, pins extending between said plates and secured thereto, a spacer mounted on each of said pins and interposed between said plates, said side plates being each provided with a plurality of elongated apertures, a splitter blade, means for adjustably mounting said splitter blade to said saw table, said blade having open slots in its lower edge constructed of a wide plate of substantially thin cross section extending longitudinally with said enclosure, a support member horizontally disposed and having a portion entirely enclosed within said guard, extending forward from said blade and attached to the upper end thereof, a plurality of link members of equal length oppositely disposed from one another, said link members pivotally attached at their upper end to said horizontal support member and at their lower end to the inner face of the vertical side plates forming said enclosure, said enclosure encasing a portion of said splitter head and horizontal member, and provided with a spacer member rearward from said splitter blade to arrest the travel of said enclosure in its downward path, thereby retaining said link members in an angular position, inwardly extending members supported at the lower end of a pair of said link members for slideable contact with both sides of said splitter blade members extending inwardly from said guard to said splitter blade throughout the movement of said guard to and from the table, a pair of anti-backlash cams rotatably mounted to said vertical side plates on the lower end thereof, said cams equipped with serrations on the lower face thereof, means on said side plates for limiting the upward movement of said cams, said side plates provided with an angularly disposed rear edge extending upward from their bottom edge and an engaging member attached to the forward end of said vertical plates between said plates, said engaging member provided with an angularly disposed contact surface at its front and an aperture through its top.

2,593,597
MILKING PLANT
Harold S. Palmer, Keota, Iowa
Application October 1, 1949, Serial No. 119,120
3 Claims. (Cl. 119—27)

1. In a milking plant, a pair of stall structures arranged in a spaced parallel relation, with the floor surface in the space between said pair of stall structures being at a lower level than the floor surfaces of said stall structures, an upright transverse frame at the end of each stall in a stall structure, with the frames in one of said stall structures being opposite the frames in the other of said stall structures, transverse horizontal support members mounted on a pair of



oppositely arranged frames and extended toward each other so as to be in a longitudinally spaced overlapping relation in said space, and upright transverse doors movably supported on said support members for transverse movement to first positions across said stall structures and to second positions extended across the space between said pair of stall structures.

2,593,598
SMOKING PIPE CLEANER
Alex Pascoo, New York, N. Y.
Application August 15, 1946, Serial No. 690,748
1 Claim. (Cl. 131—246)

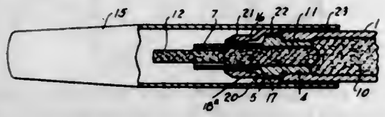


A cleaner for the bowl of a smoker's pipe comprising two substantially L-shaped members each having a long arm and a short arm at adjacent ends of the long arms, the short arms being disposed at right angles to said long arms, the short arm of one member overlapping the short arm of the other, said short arms being pivotally attached to one another near the outer ends thereof, said short arms having lateral projections extending therefrom, said projections diverging from one another, the outer ends of said projections being rolled over, said long arms having their opposite ends bent in the same direction as said short arms, said opposite ends being pivotally connected together, said members being adapted for insertion into the bowl, said members being bent along their opposite longitudinal edges in the opposite direction with reference to said short arms to present scraping edges.

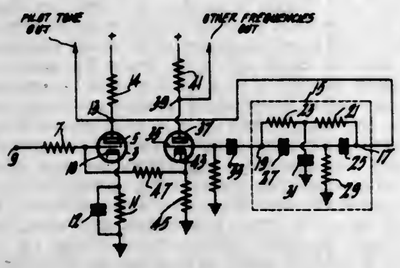
2,593,599
FOUNTAIN PEN WITH POROUS WRITING NIB AND RESERVOIR FILLED WITH ABSORBENT MATERIAL
Anthony P. Patch, Detroit, Mich., assignor, by mesne assignments, to Dri-Flo Manufacturing Co., Hazel Park, Mich., a corporation of Michigan
Application September 13, 1946, Serial No. 696,688
1 Claim. (Cl. 15—134)

A fountain pen comprising, a barrel having an open end, a holder secured to the open end of

the barrel and forming a joint therewith, said holder having a passage therethrough, a nib of porous material mounted in the passage of the holder and projecting from the end thereof, the barrel being packed with absorbent material for containing ink with the absorbent material contacting the nib, said solder having an enlarged part adjacent the end of and outside the barrel, a ferrule surrounding the holder and having an internally enlarged end portion fitted on the enlarged part of the holder to be carried thereby with portions of the interfitting surfaces of said end portion and said enlarged part having clearance relative to each other to provide a passage, interior surfaces of the other end of the ferrule being free of the holder to provide a passage, the intermediate interior surfaces of the ferrule being spaced from the holder to provide a chamber between said two passages, said passages and chamber being in communication with each other, and a cap adapted to be mounted on the enlarged end of the ferrule and to telescope over the end portion of the barrel, the internal diameter of the cap being greater than that of the end portion of the barrel, to provide a passage therebetween which is in communication with the passage between the enlarged part of the holder and the internally enlarged end of the ferrule, whereby when the cap is in position, all of said passages and said chamber are in communication with the atmosphere.

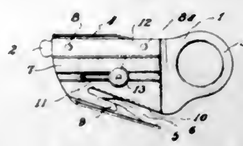


2,593,600
SIGNAL SELECTION
Winthrop S. Pike, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application May 1, 1951, Serial No. 223,947
2 Claims. (Cl. 179—171)



1. A signal transmission circuit having one input terminal and first and secod output terminals and designed to obtain a pilot tone at said first output terminal and other frequencies at said second output terminal when a composite signal containing said pilot tone and said other frequencies is fed at said input terminal, said signal transmission circuit comprising a first amplifier having input and output circuits, means to apply said composite signal to the input circuit of said first amplifier, an attenuation network providing maximum attenuation at the pilot tone frequency, means for applying signals derived from the output circuit of said first amplifier to said attenuation network, a second amplifier having input and output circuits, means for applying signals derived from said attenuation network to the input circuit of said second amplifier, degenerative feedback means for applying signals derived from the output circuit of said second amplifier to the input circuit of said first amplifier, means connected to the output circuit of said first amplifier to obtain the pilot tone, and means connected to the output circuit of said second amplifier to obtain said other frequencies.

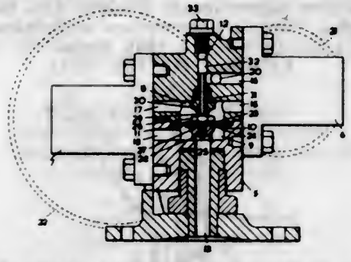
2,593,601
UTILITY CUTTER
Myer Pollak, Dorchester, Mass.
Application May 12, 1949, Serial No. 92,925
1 Claim. (Cl. 30—2)



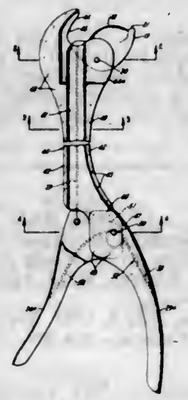
A utility cutter comprising a back plate having an upper portion, a rearwardly extending finger grip portion and a downwardly and rearwardly inclined wedge portion having a laterally extending flange serving as a skid on which the cutter may ride when being used and providing a forwardly and upwardly inclined slot, a holder plate secured to the upper portion of the back plate and depending therefrom, said back and holder plates having longitudinally extending elongated slots respectively and registering with each other, a razor-like blade longitudinally adjustable between extended and retracted positions with respect to said plates and having an opening therein, releasable means extending through the opening in the blade and through the elongated slots of said plates to secure the blade in any of its adjusted positions, said holder plate having a downwardly and rearwardly inclined portion running coextensively with the inclined wedge portion of the back plate and over the blade and providing a slot registering with the inclined slot of the back plate, said blade having a cutting edge extending downwardly into registry with said inclined slots whereby upon material being forced into said slots it will be severed by the cutting edge of the blade, said holder plate having a small inwardly bent flange extending along the upper side of the slot of the holder plate and over the blade to hold the blade firmly against the back plate.

2,593,602
CONTROL MEANS
William Pool and William Ivan Taylor, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application July 1, 1946, Serial No. 680,829
In Great Britain July 4, 1945
13 Claims. (Cl. 103—5)

1. A compound diaphragm comprising a disc of thin sheet material and a reinforcing ring of sheet material for superposition with said disc, said disc and said ring each being deformed from a plane in which its periphery lies, the deformation of any point of said ring being slightly greater than that of the corresponding point on said disc by an amount that increases towards their common centre.

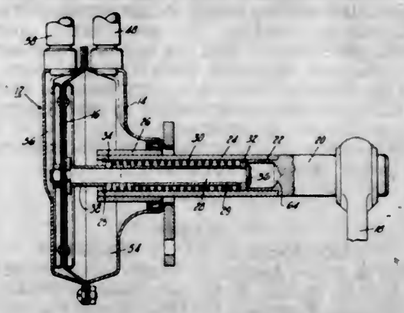


2,593,603
PRUNING SHEARS
George Potstada, deceased, late of Oakland, Calif., by Magdalena Potstada, administratrix, Oakland, Calif.
Application August 11, 1947, Serial No. 767,940
1 Claim. (Cl. 30—190)



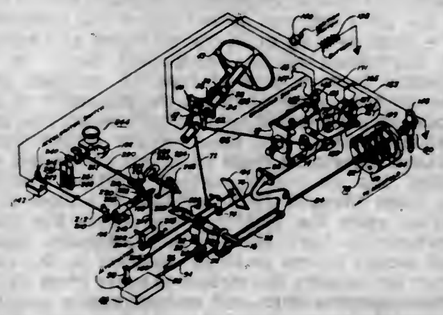
Pruning shears of the character described comprising an elongated body portion formed of two one-piece body members disposed symmetrically of a longitudinal plane and oppositely arranged one to another, each member formed to include an elongated central half-tubular portion and side flanges extending outwardly therefrom, the flanges of the said members abutting and fastened to each other to form the body portion, the side flanges at one side and at one end of the body portion being formed with a concaved hook portion projecting beyond the end of the half-tubular portions, a pivotal blade supported between the flanges of said body members opposite the hook portion and pivoted therebetween at a point eccentric to the axes of the half-tubular portions and on an axis at right angles to the axes of the said half-tubular portions, the adjacent edges of said blade and said hook portion being formed with complemental cutting edges, a fixed hand grip fixed to the end of the body portion opposite said blade, a hand grip pivotally secured to said fixed hand grip on an axis parallel to the axis of pivotal movement of the pivotal blade, the pivotal point of the hand grip being laterally offset with respect to the half-tubular portions of the body members, a connecting member extending substantially axially through said half-tubular portion and connected at one end to the pivotal blade at a point eccentric to its pivotal point, the other end being connected to the pivotal hand grip at a point eccentric to its pivotal point whereby movement of the hand grip toward and away from the fixed hand grip will cause operation of the pivotal blade for cutting purposes.

2,593,604
TRANSMISSION OPERATING MECHANISM
Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application May 7, 1945, Serial No. 592,447
3 Claims. (Cl. 121—38)



1. A pressure differential operated motor unit adapted for use in an automotive transmission operating mechanism including a double ended cylinder member, a power element reciprocable within the cylinder member, a hollow force transmitting member slidably mounted in one end of the cylinder member, a force transmitting rod secured to the central portion of the power element and telescoped within the hollow force transmitting member, force transmitting means, including a spring member, sleeved over and slidably mounted on the rod and serving, when the motor is energized, to transmit a load from the power element to the hollow force transmitting member, together with a sleeve member telescoped over the rod and serving as a stop member to limit the degree of compression of the spring member.

2,593,605
TRANSMISSION OPERATING MECHANISM
Earl R. Price, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 11, 1946, Serial No. 682,766
11 Claims. (Cl. 192—.073)



1. In an automotive vehicle provided with a three speeds forward and reverse transmission, an accelerator and a friction clutch; means for

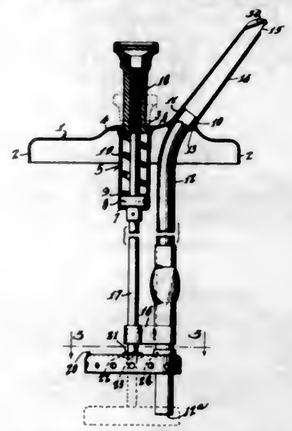
operating the transmission and clutch including a pressure differential operated motor cooperating with other means to alternately effect the second and high gear settings of the transmission and operate the clutch to facilitate said operations of the transmission, valve means for controlling the operation of said motor, and electrical means for controlling the operation of said valve means including a solenoid for actuating the valve means, and means for controlling the operation of said solenoid comprising an accelerator operated switch, a personally operated selector switch, a single pole double throw governor operated switch including two fixed contacts, and a switch mechanism actuated by the motor, said motor operated switch mechanism being so constructed and so wired to the personally operated selector switch, the accelerator operated switch, the solenoid and the two fixed contacts of the governor operated switch mechanism that once an electrical circuit is completed to energize the solenoid said energization is maintained, by the completion of another electric circuit, until the transmission is established in gear whereupon said latter circuit is broken.

2,593,606
BLOCK-BISECTING MACHINE
Milton R. Price, Issaquah, Wash., assignor of one-half to Orville E. Gibson, Seattle, Wash.
Application February 21, 1950, Serial No. 145,461
20 Claims. (Cl. 125—23)



1. In a machine for bisecting blocks of concrete in an uncured green state, a platform adapted to give yielding support to the block and comprised of two longitudinally extending series of rollers spring-suspended to admit of being depressed downwardly and disposed one at one side and the other at the other side of the longitudinal median line of the platform, plates spring-urged inwardly within prescribed limits predetermined by the width of the blocks and constituting confining side walls for the platform, a conveyor for the blocks having flights thereon which act to feed successive blocks and push the same onto the platform, the occurrance of said flights being such that the blocks carried by the conveyor will be rather widely separated thereon and thus permit each successively delivered block to come to a momentary rest upon the platform, a stationary blade having its functioning edge positioned on the longitudinal vertical center line of the platform and spaced below the underside of a block resting upon the platform and caused by depression of the supported block to be brought from a normal inactive position into bearing engagement against the underside of the block, an overhead striker complementary to said stationary blade and mounted for reciprocatory vertical movement from an inactive elevated position into an active lowered position whereat the same engages the upper face of a block supported upon the platform and forces the same downwardly hard against the stationary blade, and means driven in timed relation to the conveyor for causing the striker to move from its inactive position into and out of active position during the momentary interval when each of the successive blocks comes to rest upon the platform.

2,593,607
JAR PUMP HAVING ANTIDRIP SPOUT
William A. Pruett, Los Angeles, Calif., assignor to Weber Showcase & Fixture Co., Inc., Los Angeles, Calif., a corporation of Delaware
Application October 28, 1946, Serial No. 706,234
1 Claim. (Cl. 222—571)



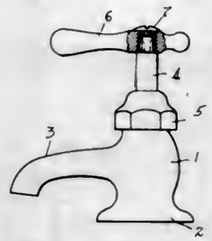
In a jar pump, a spout, an outlet from said spout, an indent impressed in said spout adjacent to and above said outlet to constrict said spout to form a capillary action upon any syrup passing through said spout to prevent said spout from dripping.

2,593,608
FOLDED BAG
Adolf G. F. Rambold, Stuttgart-Feuerbach, Germany, assignor to Teepack Spezialmaschinen G. m. b. H., Viersen/Rhld. (Germany), a company of Germany
Application July 8, 1948, Serial No. 37,586
3 Claims. (Cl. 99—77.1)



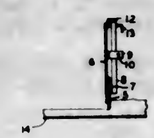
1. As an article of manufacture, a tea bag comprising a tube formed of a substantially rectangular sheet of material that is pervious to water, said sheet being formed into a tube by folding together its opposite side edges to form a flat unsealed multiple fold, said tube being folded into a substantially U-shaped bag with the multiple fold centrally located inside the U, said bag thus comprising two approximately parallel compartments forming the side legs of the U and containing a pre-determined quantity of tea and an intermediate portion connecting the compartments at one end thereof, the other ends of said compartments being provided with a closing fold and a clip passing through the closing fold to secure said other ends together and thereby close the compartments, said intermediate portion being normally collapsed to bring the multiple fold portions of said compartments into substantially abutting relation, but being expandable to permit said compartments to move apart upon infusion of the tea therein, the length of said intermediate portion being approximately equal to the expanded width of one of said compartments whereby during infusion of the bag with hot water expansion of the tea within the compartments causes the multiple fold portions of the compartments to be pressed together to prevent opening of said tube.

2,593,609
HANDLE CONNECTION
Albert Rhodes, Cleveland, Ohio
Application February 1, 1946, Serial No. 644,964
3 Claims. (Cl. 287—53)



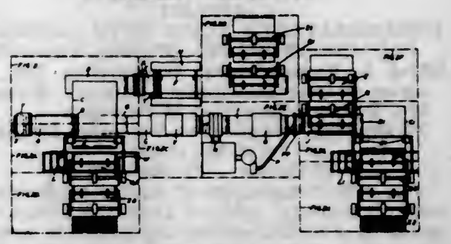
1. In a valve, the combination of a handle formed with a non-circular aperture therethrough, a stem formed with a reduced end portion of non-circular cross section forming shoulders at the adjacent portion of said stem, such stem end portion being disposed within and spaced from such handle aperture, a spacer between such handle aperture and stem end portion and provided with leg portions bearing on such shoulders and non-rotatably engaging such stem portion, such leg portions being of greater length than the distance from such shoulders to the end of said stem, and means bearing on the outer ends of such legs operative to buckle the same whereby the intermediate portions of such legs non-rotatably engage such handle aperture.

2,593,610
CONVEYER SKIRT AND APRON HOLDER
Rodney E. Roberts, North Kansas City, Mo., assignor of one-third to Edward G. Forshay and one-third to Sam Krecheafky, both of Kansas City, Mo.
Application September 27, 1950, Serial No. 187,089
2 Claims. (Cl. 198—204)



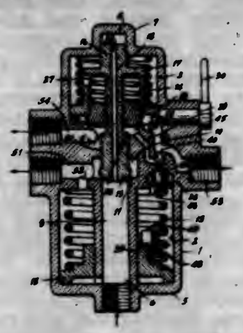
1. A conveyor skirt and apron holder comprising a wall, said wall having the lower edge thereof spaced and positioned above a belt, a flexible apron, a clamp, said flexible apron being clamped by said clamp against said wall and spacing its lower edge thereof from the belt for closer gauging material thickness on the belt than said wall spacing, said apron being solid from edge to edge in breadth and length, said clamp being manually adjustable on said plate in the direction of the spacing of said wall from the belt, said apron being manually adjustable from said belt and held in position by said clamp, and said clamp being mounted on said wall.

2,593,611
PLANT FOR SHAPING ASBESTOS CEMENT
William Holdsworth Rooksby, Trafford Park, England, assignor to Turners Asbestos Cement Company Limited, Spotland, Rochdale, England, a British company
Application June 1, 1946, Serial No. 673,793
In Great Britain June 8, 1945
17 Claims. (Cl. 92—66)



1. A plant for handling plastic sheets comprising a rotary cylinder on which the sheets are built up as coatings and from which they are delivered one by one upon an axial cut being made through the coating, an endless conveyor having a reciprocating frame and arranged at right angles to the axis of the rotary cylinder, a second endless conveyor having a reciprocating frame and arranged parallel to the axis of the rotary cylinder to receive sheets from the first conveyor, means actuated by each sheet on the first conveyor for causing the frame of this conveyor to move rearwardly upon the arrival of the sheet at the discharge end while the conveyor surface continues to move forwardly so as to deposit the sheet on the second conveyor, means controlled by the first conveyor for causing the second conveyor to carry the sheet thus deposited upon it towards a stationary surface and means controlled by the sheet for causing the frame of the second conveyor to move rearwardly upon the arrival of the sheet at the discharge end while the conveyor surface continues to move forwardly so as to deliver the sheet onto the stationary surface.

2,593,612
FUSE VALVE
Howard E. Rose, Peninsula, Ohio, assignor to Alco Valve Company, University City, Mo., a corporation of Missouri
Application April 29, 1944, Serial No. 533,268
26 Claims. (Cl. 121—47)



18. In a valve means for controlling fluid pressure supply and return conduits for a device actuated by fluid pressure from a source, a valve element for closing the supply conduit, a second valve element for closing the return conduit,

means for opening the elements by fluid pressure in the return conduit, means for creating fluid pressure in the return conduit by fluid pressure from the source and prior to opening of the first valve element, and operator-operated means for opening the first valve element at will independently of fluid pressure from the source.

2,593,613

CONDENSATES OF ROSIN WITH CARBOCYCLIC UNSATURATED HYDROCARBONS

Alfred L. Rummelsburg, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 23, 1949, Serial No. 134,844

15 Claims. (Cl. 106—227)

1. A new composition of matter comprising a resinous material selected from the group consisting of a carbon-carbon condensation product of a rosin with an unsaturated carbocyclic hydrocarbon having at least two centers of unsaturation and being capable of self-polymerization to a hemicolloid and esters of said condensation product, the molar ratio of rosin to carbocyclic hydrocarbon in the condensation product being from about 0.1 to 20, said carbon-carbon condensation product being the product of condensation of the reactants in the presence of an acid-acting condensation catalyst at a temperature within the range of about −20° C. to about 150° C.

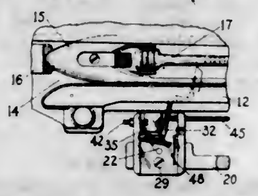
2,593,614

LOOM FILLING FEELER

Kenneth E. Sanderson, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application November 1, 1947, Serial No. 783,476

5 Claims. (Cl. 139—274)



1. A slip-action filling feeler for looms, comprising, in combination: a feeler casing including means forming a guideway and an abutment in the guideway; a filling feeler member having an active feeling position and guided in said guideway by said means for normal sliding displacement movement from said position and normal sliding return movement to said position and for filling exhaustion indicating movement abnormal with respect to said normal sliding displacement and return movements, said member sliding by one side of said abutment in partaking of said normal movements; and a magnet having opposite poles which are spaced, one at one side and the other at the other side of said abutment, the opposite side of said abutment acting through certain components of the magnetic forces incident to its entire magnetic field to attract the member against the abutment to create frictional forces therebetween and further acting through other components of the magnetic forces which comprise its entire magnetic field, and upon another portion of the feeler member to attract and draw said member to said active feeling position subsequent to occurrence of any of said movements.

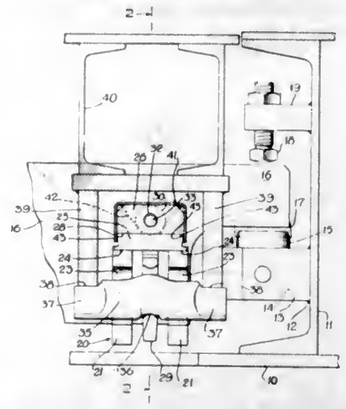
2,593,615

SCALE

Charles S. Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut

Application July 30, 1947, Serial No. 764,641

7 Claims. (Cl. 308—2)



1. In a scale of the class described, a knife edge pivot member, a flat undersurface on the base of said knife edge pivot member of greater longitudinal extent than the knife edge of said knife edge pivot member, a supporting member having a flat upper surface upon which the flat undersurface of said knife edge pivot member rests, a beam having a bearing surface bearing against the knife edge of said knife edge pivot member, a limit member carried on said beam for limiting endwise relative sliding movement between said knife edge pivot member and beam and thereby limiting lateral relative movement between said beam and said supporting member, said knife edge pivot member flaring endwardly outwardly from its base towards its knife edge to present a peak or point surface to a surface of said limit member whereby to reduce to a minimum friction between said limit member and said knife edge pivot member upon contact therebetween.

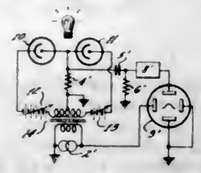
2,593,616

ELECTRONIC SPECTROSCOPE

Alfred C. Schroeder, Feasterville, Pa., and George C. Sziklai, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application December 16, 1949, Serial No. 133,332

7 Claims. (Cl. 250—208)



2. A system for determining the spectral distribution of light comprising in combination a photo-electric cell upon which said light falls, means for applying a voltage of sawtooth wave shape to said cell, means for twice differentiating the output voltage of said cell, and means for providing a continuous representation of said twice differentiated voltage.

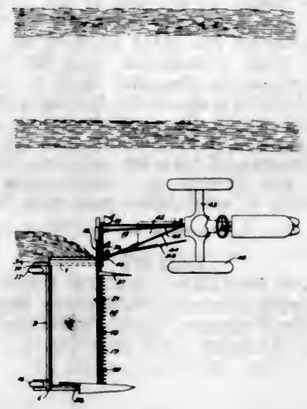
2,593,617

WINDROWER

Paul R. Schroeppel, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin

Application June 20, 1946, Serial No. 677,994

2 Claims. (Cl. 56—23)



1. A windrower of the class described comprising a generally rectangular supporting frame including a front bar, a pair of spaced-apart side bars, and a tubular rear member, said bars and tubular rear member being rigidly interconnected, a pair of spaced-apart support wheels attached at opposite ends of said tubular member, said front frame bar having a portion extending sidewardly beyond one of said side members, a forwardly extending drawbar hingedly attached to said sidewardly extending portion of said front frame bar, said supporting frame being supported by said drawbar and wheels, a cutter bar mounted on said front frame bar forwardly thereof, and a side delivery conveyor mounted on said frame rearwardly of said cutter bar thereby to receive grain cut by said cutter bar and discharge it sidewardly over one side member and behind said drawbar, said tubular rear member being prestressed in torsion to bear the portion of the weight of said frame, cutter bar, conveyor, and grain which is borne by the other of said side members, and means for adjusting the height of said cutter bar from the ground comprising a forwardly and upwardly extending arm which is rigidly attached to said sidewardly extending portion of said front frame bar, a rearwardly and upwardly extending arm rigidly attached to said drawbar adjacent its point of hinged connection to said sidewardly extending member, said rearwardly and upwardly extending arm being disposed in crossed relation with said forwardly and upwardly extending arm, a tension spring, said tension spring being attached at one of its ends to said forwardly and upwardly extending arm and at its other end to said rearwardly and upwardly extending arm to counterbalance the weight of said supporting frame, cutter bar, conveyor, and grain, an adjusting lever connected to said forwardly and upwardly extending arm, and means on said drawbar for determining the position of said adjusting lever relative to said drawbar.

2,593,618

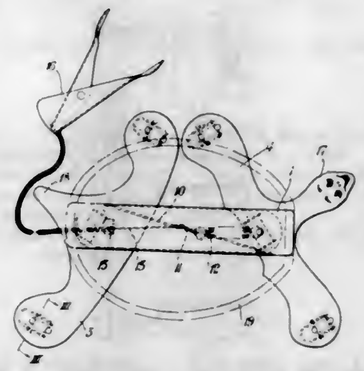
REMOTELY CONTROLLED MECHANICAL WALKING TOY

Harry Sebel, London, England

Application November 12, 1948, Serial No. 59,740

In Great Britain July 14, 1948

3 Claims. (Cl. 46—105)



1. A wheeled toy comprising a body, a pair of spaced axles pivoted at their centers on said body for limited angular movement about vertical axes, four wheels, one at each end of each of said axles, means associated with said wheels for preventing reverse rotation thereof, a tie bar pivotally connected at its ends to said axles at opposite sides of their respective pivot axes so that said axles move angularly concurrently but in opposite directions, a spring having one end fixed to the tie bar and its opposite end fixed to the body and continuously effective to bias said axles toward opposite ends of their respective ranges of movement, and operating means including a pair of relatively movable members, one continuously connected to said body and the other continuously connected to said tie bar, said members being effective when relatively moved in one sense to move said tie bar relative to said body against said spring and thereby cause an advancing movement of one end of each of said axles, said spring being effective upon a subsequent release of said members to move said tie bar in the opposite direction and cause an advancing movement of the opposite end of each of said axles and relative movement of said members in the opposite sense, so that upon intermittently operating and releasing said moving means, the opposite ends of the axles are alternately advanced under the continuous and effective control of said operating means to move the toy forward with a simulated walking motion.

2,593,619

TREATMENT OF HYDROCARBON OILS WITH AN ALKYL OXALATE AND AN ALKALI ALCOHOLATE

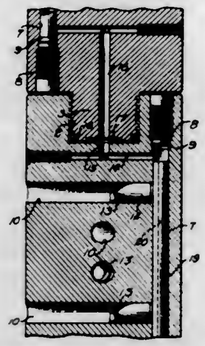
John O. Smith, Jr., North Plainfield, and Allen R. Jones, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application July 19, 1950, Serial No. 174,778

12 Claims. (Cl. 196—23)

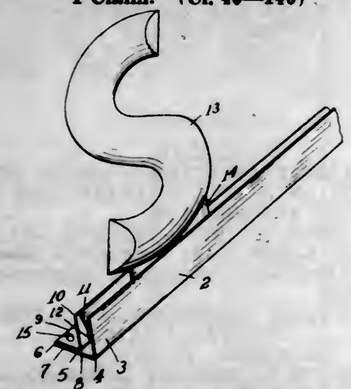
1. A method for removing undesirable engine deposit forming compounds from gasoline which comprises treating said gasoline with a small amount of an alkyl oxalate in the presence of a small amount of an alkali alcoholate.

2,593,620
GUN PERFORATOR
Lloyd Spencer, Los Angeles, Calif., assignor of 33⅓% to Thomas C. Bannon, Altadena, and 33⅓% to John D. Chesnut, Newport Beach, Calif.
Application July 1, 1946, Serial No. 680,648
3 Claims. (Cl. 164—0.5)



1. A gun perforator, comprising: a series of gun bodies, each having a threaded socket in one end and a mating threaded boss at its other end, whereby said gun bodies may be joined in end-to-end relation; each gun body defining a plurality of axially directed propellant bores, their ends intersecting the ends of said body radially outwardly of said socket and boss, axially centered end bores in said socket and boss, and lateral passages connecting said end bores and propellant bores, each gun body also defining laterally directed gun bores disposed in sets communicating with corresponding propellant bores; projectiles for said gun bores; continuous propellant cartridges for said propellant bores; plugs closing the ends of said propellant bores and confronting the ends of adjacent gun bodies; the end bores of said gun bodies adapted to register when said gun bodies are connected in end-to-end relation thereby to provide with said lateral passages and propellant bores continuous flame and interconnected passages throughout the series of gun bodies.

2,593,621
REMOVABLE LETTER DISPLAY SIGN
Werner I. Staaf, Rennerdale, Pa.
Application August 26, 1949, Serial No. 112,468
1 Claim. (Cl. 40—140)



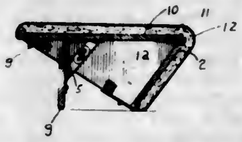
A sign comprising a supporting bar and a display character, said bar comprising a sheet metal strip having one edge turned up and constituting a front flange and having at the bottom of said front flange a rearwardly-extending base flange, the metal at the rear edge of the base flange being folded over onto the top of the base flange and extending forwardly to a position intermediate the front flange and the rear edge of the base, the metal at the forward edge of the part so folded over extending upwardly to the height of the front flange and forming a rear flange parallel with, but spaced from the front flange, the metal at the top of the rear flange sloping downwardly and forwardly, there being a lip of metal at the other edge of the strip in which the slope terminates, said lip being resiliently pressed against the back of the front flange, said display character having a fin at the base thereof which fin extends between and is clamped in position by said lip and the back of the front flange and rests on said base flange, the bottom of the display character being against the top edges of said front and rear flanges.

2,593,622
SCREW HOLDING SCREW DRIVER
Albert L. Stanelle, Milwaukee, Wis.
Application February 4, 1949, Serial No. 74,510
1 Claim. (Cl. 145—50)



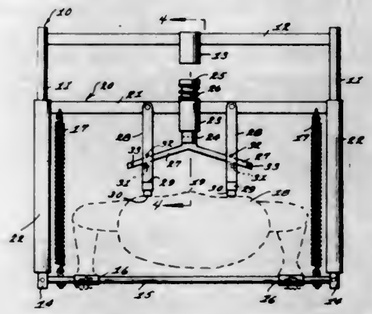
A device of the character described, said device being fabricated of a single piece of material shaped to define an elongated cylindrical stem, one end of said stem including a head, said head being flattened and enlarged and being provided with a centrally disposed aperture, said head having a pair of outwardly extending, resilient blades spaced parallel to each other and spaced apart from one another defining a slot extending from said aperture to the ends of said blades, said slot being arranged in alignment with the longitudinal axis of said stem, said blades being mounted for movement toward and away from each other, the outer periphery of said head extending outwardly and arcuately so that there is provided a gradual diminishing of the cross-sectional area of the head terminating in said blades, the distance from the aperture to the outer edges of the head being greater than the thickness of the major portions of the blades, the longitudinal axis of said aperture being arranged at right angles to the longitudinal axis of said slot.

2,593,623
BODY REST FOR VIEWING TELEVISION
Rudolph G. Stempel, Greenwich, Conn.
Application September 1, 1950, Serial No. 182,798
4 Claims. (Cl. 155—169)



1. An article of furniture comprising a rigid wedge-shaped frame having top, back and side panels, a bottom section for said frame, a portion of said bottom comprising a foldable leg pivotally connected to the frame whereby said leg may be rotated from the plane of said bottom section to a position substantially perpendicular to said top panel.

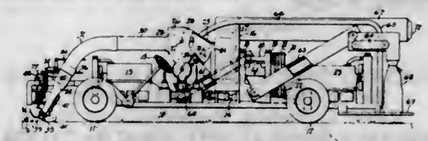
2,593,624
SPINAL ADJUSTING DEVICE
Evan W. Stevens, Kendall, Kans.
Application July 5, 1949, Serial No. 103,016
11 Claims. (Cl. 128—69)



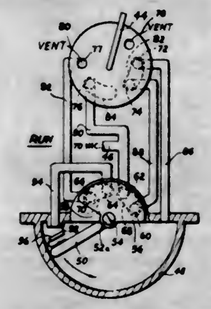
5. A spinal massaging device comprising a pair of torso receiving frames, said frames comprising laterally spaced slidably interengaging guide portions at each side, cross members connecting the respective guide portions of said frames adjacent the rear ends of the latter, a pair of laterally spaced spinal massaging arms pivoted to the cross member of one of said frames between its guide portions and for swinging movement in a plane parallel therewith, arm operating means operatively connected to said massaging arms and carried by said last mentioned frame, actuating means for said arm operating means and carried by the cross member of said other frame, and said actuating means and operating means positioned to interengage upon relative movement of said frames in one direction.

2,593,625
NUT GATHERING MACHINE
William P. Stokes, Portland, Oreg., assignor of one-fourth to Harry J. Casey, one-fourth to Gordon Goodpasture and one-fourth to Leo R. Pearson
Application July 10, 1945, Serial No. 604,263
2 Claims. (Cl. 56—328)

1. A nut harvester for gathering nuts from the ground comprising a wheeled support, a plurality of suction nozzles carried thereby mounted in transverse alignment, each of said nozzles having an eccentric actuator for raising the nozzles from the ground, and a drive shaft on which all of said eccentrics are mounted and on which they are rotatably spaced for alternately raising the various nozzles.



2,593,626
PARKING WINDSHIELD WIPER MOTOR OF THE OSCILLATING PISTON TYPE
Delbert Henry Stoltenberg, Toledo, Ohio, assignor to The Electric Auto-Lite Company, Toledo, Ohio, a corporation of Ohio
Application January 29, 1945, Serial No. 575,037
19 Claims. (Cl. 121—97)



15. In a fluid motor, first and second members movable relative to each other back and forth between normal limits under the influence of a reversibly applied differential between higher and lower fluid pressures, a supply passage adapted for connection to a source of one of said pressures, and valve mechanism for controlling said motor, said valve mechanism including reversing valve means having means defining passage means for connecting said supply passage to said motor and being automatically operable at said limits to reverse said connection, and control valve means operable to reverse the connection, through said reversing valve passage means, of said supply passage to said motor.

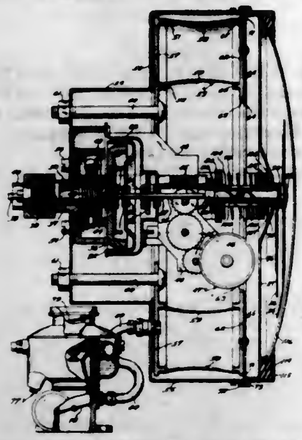
2,593,627
INVERTING APPARATUS
Harry E. Stover, Lancaster, Ohio, assignor to Anchor Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application September 8, 1949, Serial No. 114,546
15 Claims. (Cl. 198—33)



1. In a device of the class described, the combination of gripping means mounted to rotate with adjacent gripping means, adjacent gripping means mounted to rotate in a plane inclined to that of the first mentioned gripping means, rotatable means extending between and connected with said first mentioned gripping means and said second mentioned gripping means adapted to rotate with said means and to support con-

veying means, and conveying means supported by said rotatable means for conveying containers and other articles.

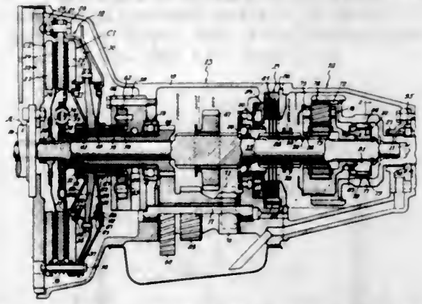
2,593,628
QUOTIENT OR PRODUCT METERING AND REGISTERING INSTRUMENT
Henry G. Strong, Fayetteville, N. Y.
Application March 10, 1947, Serial No. 733,539
16 Claims. (Cl. 235—61)



16. Composite measurement registering apparatus comprising, a rotary indicator for registering measurement values, functionally separate automatic metering instrumentalities adapted to perform respectively independent motions responsively to changes in relatively distinct conditions to be measured, a member for transmitting movement to said indicator comprising a hollow cylinder having at least one winding cam slot in the curved wall thereof, mechanism for integrating said independent motions of said separate metering instrumentalities including a plurality of elements arranged respectively to share said independent motions of the latter and operative jointly to motivate said indicator, one of the said indicator motivating elements having an axially elongated channel and occupying the hollow interior of said cylinder and the other of said indicator motivating elements encompassing the periphery of said cylinder, a rigid stationary hollow post disposed to guide said encompassing indicator motivating element in a straight path, and a driver extending from said encompassing element crosswise through said winding cam slot and slidably engaged with said elongated channel thereby to impart motion from both of said elements to said cylinder.

2,593,629
FOUR-SPEED COUNTERSHAFT AND PLANETARY TRANSMISSION
Clifford L. Swift, Muncie, Ind., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application September 21, 1949, Serial No. 116,918
2 Claims. (Cl. 74—740)

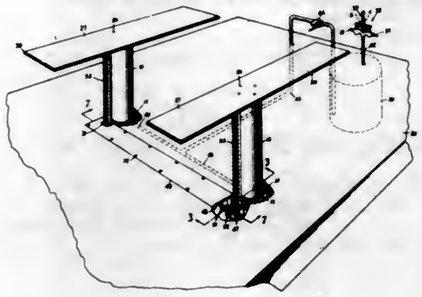
1. In a transmission; the combination of a drive shaft; a driven shaft; a countershaft type gear unit having first and second input shafts, a gear fixed to said first input shaft, a countershaft gear cluster having a gear in mesh with said first-named gear, said second input shaft extending through said countershaft unit so as to constitute the output shaft for providing a direct forward drive through the countershaft unit, said second input shaft having a gear splined on and movable on it, said gear cluster including two other gears with one of which said movable gear is adapted to mesh for completing a low forward speed drive through the countershaft unit, and an idler gear in mesh with the third of said cluster gears and adapted to be meshed by said movable gear for completing a reverse drive through the countershaft gear unit; a friction clutch for connecting each of said input shafts respectively with said drive shaft; a planetary gear set comprising sun and ring gears and a planet gear in mesh with the sun and ring gears and a planet gear carrier, said carrier being connected with said second input shaft so as to be driven by said countershaft gear unit and said ring gear being connected with said driven shaft for driving the driven shaft; a friction brake for said sun gear for completing an overdrive forward drive through the planetary gear set; a one-way clutch between said second input shaft and said driven shaft for providing a one-way direct forward drive between the second input and driven shafts; a lockup clutch for locking



together two elements of said planetary gear set to provide a two-way direct drive through the planetary gear set; and fluid pressure operated pistons for engaging said friction brake and both of said friction clutches respectively; whereby engagement of said lockup clutch and completion of said reverse drive through said countershaft gear unit complete a reverse drive ratio through said transmission, whereby alternate completion of said direct forward drive and said overdrive forward drive through said planetary gear set while said low speed forward drive is completed through said countershaft gear unit provides respectively a first speed forward drive ratio and a second speed forward drive ratio through said transmission, and whereby alternate completion of said direct forward drive and said overdrive forward drive through said planetary gear set while said direct forward drive is completed through said countershaft gear unit provides respectively a direct forward drive ratio and an overdrive forward drive ratio through said transmission, said friction clutches and brake and said one-way clutch enabling completion of any one of said forward drive ratios during the operation of any other forward drive ratio.

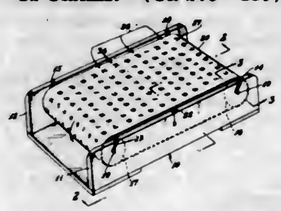
2,593,630
VEHICLE HOIST
Elmer B. Thompson, Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application December 13, 1948, Serial No. 65,007
1 Claim. (Cl. 254—89)

For elevating a vehicle having a main frame with front and rear wheels thereon, a vehicle lift including a pair of transversely spaced lift members, a horizontal flat plate mounted directly on each lift member and of such a length to engage only a portion of the frame of the vehicle between the front and rear wheels and presenting a



flat continuous upper surface to so engage the vehicle frame, said horizontal plates, in the use of the lift, being located between said front and rear wheels and of a length to support said frame against longitudinal tilting movement.

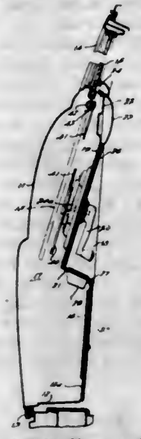
2,593,631
GAME APPARATUS FOR CHANCE-SELECTED INDICATIONS
Charles Tognetti, Union City, N. J.
Application September 30, 1950, Serial No. 187,707
11 Claims. (Cl. 273—135)



1. In a game apparatus, a movably mounted sheet having thereon a plurality of spaced rows of symbols, and a row indicator adjacent said sheet, said rows comprising a plurality of series of numbers continuing from row to row, each series being sequentially arranged, said apparatus also including a plurality of cards each having thereon a plurality of rows of symbols corresponding in position, value and sequence to a selected group of adjacent rows on said sheet.

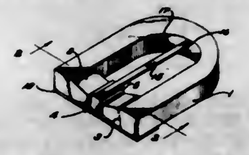
2,593,632
MOTOR VEHICLE
Millard H. Toncray and Frank S. Spring, Grosse Pointe, Mich., assignors to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application August 21, 1948, Serial No. 45,444
8 Claims. (Cl. 296—44)

1. In a vehicle body, a door structure comprising an inner upright wall structure having an outwardly extending offset portion providing a recess within the area of the wall structure, a window panel slidable up and down within said door structure, the back upright wall of said recess extending substantially parallel to the plane of said window panel, and a window regulator for raising and lowering said panel and including a handle mounted on said wall and a shaft op-



erated thereby extending substantially at right angles to said plane.

2,593,633
ELECTRODYNAMIC PHONOGRAPH PICKUP
Kenneth F. Umpleby, Baltimore, Md., assignor to The Decca Record Company, Limited, London, England, a corporation of Great Britain
Application April 12, 1948, Serial No. 20,473
In Great Britain April 29, 1947
5 Claims. (Cl. 179—100.41)

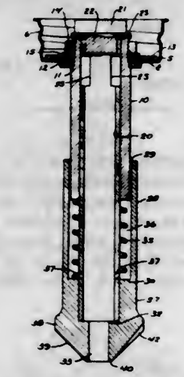


1. In an electric phonograph pick-up for producing electrical signals corresponding to laterally cut undulations of a spiral groove in a disc record, the combination of: a fixed part; a stylus for engaging said record groove and following the undulations thereof; a moving part attached to said stylus for movement therewith; means on said moving part responsive to a given relative motion between said moving part and said fixed part for producing an electrical signal corresponding to said given relative motion; another part supporting said moving part for movement by said stylus in correspondence with said undulations; and mounting means mounting said other part, said moving part and said means thereon, and said stylus as a subassembly on said fixed part for substantially free movement of said sub-assembly toward and away from said record and for holding said subassembly against movement parallel to the surface of said record.

2,593,634
SPIGOT FOR DISCHARGING LIQUID FROM CONTAINERS
Guy M. Vosburg, Pontiac, Mich., assignor to Dri-Flo Manufacturing Co., Hazel Park, Mich., a corporation of Michigan
Application August 25, 1949, Serial No. 112,334
1 Claim. (Cl. 222—514)

A spigot for the discharge of liquid from a container comprising, a cap adapted to be se-

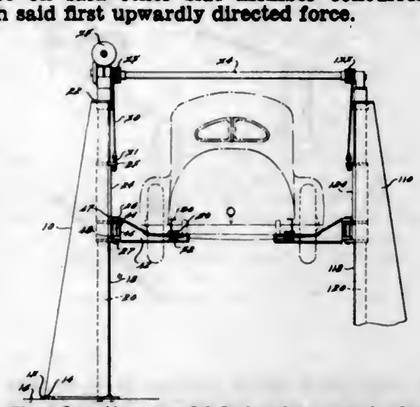
cured to the container to cover an opening therein, a first tubular member passing through the cap and secured thereto so that one end opens within the container with the major portion thereof projecting to the outside of the container, the inner end portion of the tubular member having a valve seat, a second tubular member slidably mounted within the first tubular member, a valve member carried at the inner end of the second tubular member and positioned to engage said seat, the second tubular member having a port in its wall located to lie within the first tubular member when the valve member is on said seat, whereby the spigot is closed, the outer end of the second tubular member projecting beyond the first tubular member, a spigot head secured to the projecting end of the second tubular member and having a tubular portion telescopingly engaging over the outside of the first tubular member with clearance, the tubular portion and the inner tubular member



providing a chamber defined at one end by the outer end of the first tubular member and its opposite end by the spigot head, the spigot head having a discharge port in registry with the interior of the second tubular member, and a spring positioned in said chamber and re-acting against said outer end of the first tubular member for holding the valve member normally on said seat to close the container and holding the tubular portion of the spigot head spaced from the cap, the head and second tubular member being shiftable against the action of the spring to move the valve member off its seat and to shift the port in the second tubular member beyond the inner end of the first tubular member, said inner tubular member having one or more ports through its side wall for connecting the said chamber with the interior of the second tubular member and located adjacent the end of the chamber remote from said outer end of the first tubular member and defined by the spigot head.

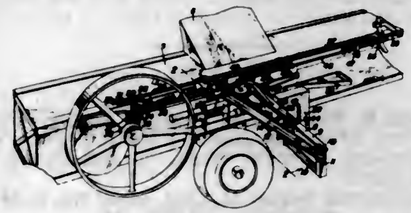
2,593,635
METHOD AND MECHANISM FOR RAISING VEHICLES
Willard T. Walker, Racine, Wis., assignor, by mesne assignments, to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application July 24, 1946, Serial No. 685,816
5 Claims. (Cl. 254—92)

1. The method for raising vehicles having front and rear wheels and a main frame including a pair of spaced side members longitudinally extending over at least a portion of the distance between said front and rear wheels; which comprises engaging one of said side members over the major portion of the length thereof between said front and rear wheels, applying an upwardly directed force at substantially the center of said engagement, separately engaging the other of said side members in the same manner as said first side member, and applying an upwardly directed force on said other side member concurrently with said first upwardly directed force.



3. For elevating a vehicle having a main frame with front and rear wheels thereon, a vehicle hoist including a pair of transversely spaced lift members located in approximate alignment with the center of gravity of the vehicle when the vehicle is in a position to be elevated, a pair of frame supporting arms corresponding to each of said lift members, and means mounting each pair of said arms adjacent one of their ends on a corresponding lift member for horizontal swinging movement to first positions extended longitudinally of the hoist and to second positions extended transversely of the hoist, with said arms being of a length to provide for their swinging movement beneath said frame and between said front and rear wheels when the vehicle is in said position to be elevated, whereby to locate the free ends of said arms below longitudinally spaced portions of said frame located at opposite sides of said center of gravity so that the vehicle frame will be contacted and raised when the arms are elevated by the lift members.

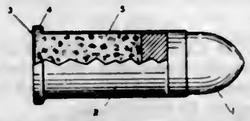
2,593,636
AUTOMATIC CARRIAGE PULLER FOR CASE BALERS
Charles L. Walters, Prague, Okla.
Application June 24, 1949, Serial No. 101,141
4 Claims. (Cl. 100—24)



1. In a power operated hay baler of a type including a baling chamber having a reciprocating plunger a spring actuated unitary carriage and divider holder for inserting a divider in hay being baled in the chamber to travel with the hay, and a trip for controlling actuation of said carriage and divider holder, means for returning the carriage and divider holder to its reloading position and comprising a second trip in the path of a

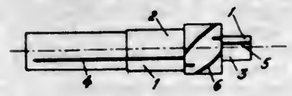
divider moving with the hay, a bar pivoted at one end at one side of the chamber in a longitudinal position for inward and outward swinging movement, spring means holding the bar outwardly, a pivoted yoke engaging the bar to actuate the bar, means connecting the yoke to the second trip to swing the bar inwardly, a dog slidably mounted on the bar and movable thereby into the path of the plunger to carry the dog with the plunger during a predetermined movement thereof, and means connecting the dog to the carriage.

2,593,637
LOADED CARTRIDGE WITH FRANGIBLE PROJECTILE
Lewis C. Weldin, Kenvil, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application December 13, 1949, Serial No. 132,791
6 Claims. (Cl. 102—41)



1. A loaded cartridge having in combination a casing, a priming assembly, a propellent charge of smokeless powder, and a frangible projectile, said projectile containing from 75 to 90% of a finely-divided metal filler having a density of from 6 to 9, and from 25 to 10% of a thermoplastic resinous binder containing from 30 to 75% of ethyl cellulose; said ethyl cellulose having a viscosity of between 50 and 500 centipoises and an ethoxyl content of between 43 and 50%.

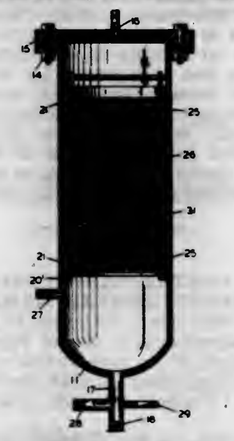
2,593,638
EXPANSIBLE CLAMP ARBOR
Johan E. H. Westberg, Syracuse, N. Y.
Application July 13, 1949, Serial No. 104,510
In Sweden July 15, 1948
12 Claims. (Cl. 279—2)



1. An arbor for internally chucking a workpiece comprising a plurality of members arranged around a common axis, each of said members having a work engaging portion and a tool engaging portion for engagement wth a chuck or the like, the said portions of each member being connected by an intermediate portion in peripherally offset relation whereby compression of said tool engaging portions toward said axis by engagement with a tool causes expansion of said work engaging portions away from said axis to internally engage and chuck the work.

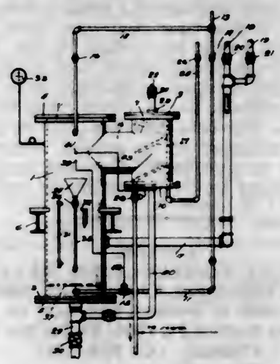
2,593,639
FILTER
Ben Whitehouse, Milwaukee, Wis., assignor to Rodwell Engineering and Sales Company, Omaha, Nebr.
Application June 17, 1947, Serial No. 755,159
1 Claim. (Cl. 210—140)

A filtering device of the character described comprising a hollow container open at its upper end, a removable cover for closing the open end of said container, an inlet tube leading through the side wall of said container, an outlet tube leading from the removable cover at its upper end, a drain tube at the bottom of said container, the inner wall of said hollow container provided with inwardly extending members above said inlet tube, a detachable cylindrical filtering unit mounted within said hollow container and supported by said inwardly extending members, said



cylindrical unit provided with a pair of perforated filter plates spaced apart from one another, said plates supported within said filtering unit, said plates having filtering units constructed of a plurality of layers of fabric overlying said plates and a mass of filtering material disposed between said filtering plates in a manner to fill the space between the fabric filter units on the face of said plates.

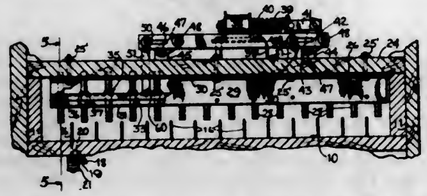
2,593,640
APPARATUS FOR FLUID TREATMENT OF TEXTILES AND CLOTHING
Paul E. Whittington, Arlington, Va.
Application October 8, 1946, Serial No. 701,858
4 Claims. (Cl. 68—15)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. Apparatus for treating textiles and the like with a boiling liquid at a temperature below the normal boiling point of said liquid, comprising a closed tank for said textiles and liquid, a condensing chamber adjacent to and in communication with said tank for receiving vaporized fluid therefrom, means for returning condensed liquid from said chamber to said tank, means for passing a cooling fluid in heat exchange with said condensing chamber, means for supplying heat to

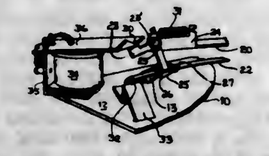
said tank, and first and second thermostatic means in said tank each being responsive to a predetermined temperature below the normal boiling point of said liquid, said first and second thermostatic means being positioned out of the path of the returning condensed liquid, said first thermostatic means being operatively connected to said means for passing cooling fluid and said second thermostatic means being operatively connected to said means supplying heat to said tank, so as to operate said means for passing cooling fluid and said means for supplying heat to condense enough vapors in said condensing chamber and to restrict the amount of heat supplied to said tank, whereby to maintain a predetermined partial vacuum in said tank and to boil said liquid in said tank at said predetermined temperature below its normal boiling point.

2,593,641
PUCK OBSTRUCTING DEVICE FOR SHUFFLEBOARD GAMES
Marcine P. Wolverton, Chicago, Ill., assignor, by mesne assignments, to Royal Patent Corporation, Chicago, Ill., a corporation of Illinois
Application September 16, 1949, Serial No. 116,056
1 Claim. (Cl. 273—126)



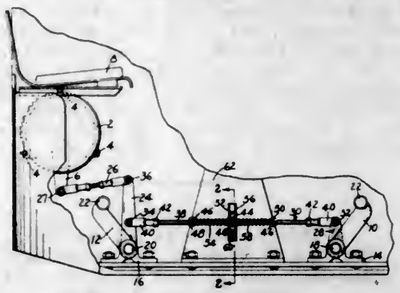
The combination with a game apparatus in which there are a plurality of normally open switch members and a playing board over which a game piece is adapted to be projected toward said switch members, of means providing a plurality of movable obstruction members positioned above said switch members, means above said obstructing members for moving the same from and into obstructing position with respect to said switch members in the path of movement of said game piece, said obstructing means comprising a guiding and supporting structure, said obstruction members being supported by the structure and normally disposed above said switch members, a lift bar having connection with said obstruction members, and a connecting bar operatively connecting said lift bar and said moving means and adapted to be moved vertically and horizontally by said moving means, said moving means including an electromagnetic coil.

2,593,642
CIRCUIT CONTROLLING DEVICE
Marcine P. Wolverton, Chicago, Ill., assignor to Lyndon A. Durant, Chicago, Ill.
Application August 26, 1950, Serial No. 181,593
7 Claims. (Cl. 200—12)



1. A device of the class described comprising a mounting plate having arranged on one side thereof in circular formation a plurality of separate contact plates, a shaft centrally extending through the mounting plate for rotation with respect to such plate, a member carried by the shaft and providing a plurality of radially extending arms, a second member carried by the shaft and having a plurality of radially extending arms for yieldable engagement successively with said contact plates, latch means carried by the arms of the first member and adapted for latched engagement with the arms of the second member to releasably latch said arms of said second member from engagement with respect to said contact plates, means carried by the mounting plate in the path of movement of the arms of the second member for moving said arms of said second chamber into position for latched engagement with said latch means, and means carried by said mounting plate and adapted for engagement with said latch means to unlatch the arms of said second member from said latch means.

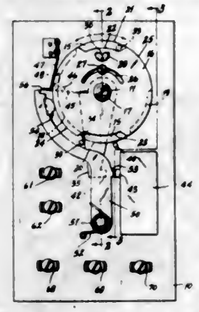
2,593,643
SWITCH CONTROL MECHANISM
James W. Woolf, Franklin, Pa., assignor to Joy Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application December 30, 1948, Serial No. 68,124
6 Claims. (Cl. 200—153)



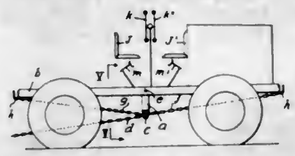
4. In combination, a pedally operable control member adapted to be used by an operator facing in a given direction, a second pedally operable control member adapted to be used by an operator facing in the opposite direction, both of said members having neutral positions, a switch, an actuating arm for the switch having a neutral position and being movable into a switch closing position, linkage connecting said members with each other and with said arm, and means associated with the linkage for returning said members and said arm to neutral.

2,593,644
STOKER CONTROL
John O. Yeida, Herculaneum, Mo., assignor, by mesne assignments, to Missouri Automatic Control Corporation, a corporation of Missouri
Application September 1, 1945, Serial No. 614,040
15 Claims. (Cl. 236—46)

13. In a control for operating a switch means, a shaft, a reversible motor for operating the shaft, means movable into one position to cause the motor to operate the shaft in a forward direction, and movable into another position to cause the motor to operate the shaft in a reverse direction, switch means, means operated by forward rotation of the shaft to operate the switch means intermittently at regular intervals, and means operated by reverse rotation of the shaft to operate the switch means continuously for the duration of such reverse rotation, the means movable to cause the motor to operate forward or in reverse comprising a thermostatic switch device, and a heating means energized by operation of the switch means, the heating means being energized at regular intervals when the thermostat is satisfied, and being operated continuously when the thermostat demands heat.

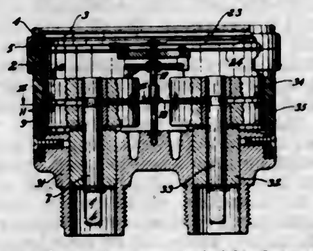


2,593,645
TRACTOR COUPLING ARRANGEMENT
Georges Amey, Les Loges en Josas, France, assignor to Societe Anonyme dite; Automobiles Industriels Latil, Suresnes, France
Application April 23, 1948, Serial No. 22,860
In France June 14, 1947
3 Claims. (Cl. 280—33.44)



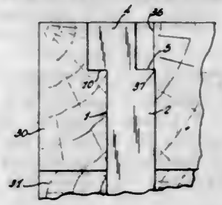
2. A coupling device for symmetrical amphicoupled tractor according to claim 1, in which the chains connecting the anchoring stirrup to the fasteners may be adjusted in length independently of each other by the suitable choice of the link of each chain to anchor to the corresponding fastener.

2,593,646
MAGNETIC DRAG TACHOMETER
John H. Andresen, Jr., Port Washington, N. Y., assignor, by mesne assignments, to Kollsman Instrument Corporation, Elmhurst, N. Y., a corporation of New York
Application July 25, 1946, Serial No. 686,168
12 Claims. (Cl. 264—13)



1. In a tachometer, a rotatable drag element of high conductivity material, means biasing said drag element against rotation, indicating means operated by said drag element, and magnetic drag means mounted for rotation about an axis parallel and eccentric to the axis of said drag element with the drag element disposed so as to have a major portion of its radial distance in the field of the magnetic drag means so that relative movement is produced between the magnetic field and the drag element upon rotation of said magnetic drag means with the relative movement having a substantial directional component radial of said drag element to dampen its movement.

2,593,647
NAIL OR PIN
Edgar P. Anstett, Chicago, Ill., assignor to Powernail Company, Chicago, Ill., a corporation of Illinois
Application November 5, 1947, Serial No. 784,206
3 Claims. (Cl. 85—11)



1. A single pointed nail comprising a sheet metal stamping consisting of a shank and a head two opposite sides of which are a continuation of two opposite sides of the shank to facilitate stacking of the nail with other nails of the same construction, the head being of the same width as the shank, the end of the shank opposite the head being tapered to a point that is centered substantially on the longitudinal center line of the shank and the shank being straight edged and of uniform width from the tapered point portion of the shank up to the head, the center line of the head being offset with respect to the shank and the head lying entirely on one side of one longitudinal edge of the shank with the head overhanging only one longitudinal side of the shank, the top of the shank where it is free of the head being at right angles to the longitudinal axis of the shank and the top and bottom edges of the head being straight and parallel to each other for their entire lengths and at right angles to the longitudinal axis of the shank, the top and bottom edges of the nail head at the part thereof that overhangs the shank being joined by a straight line constituting an edge of the head.

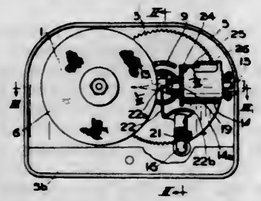
2,593,648
GASKET CLIP
Albert J. Aukers and Raymond A. Church, Chicago, Ill., assignors to Victor Manufacturing & Gasket Co., Chicago, Ill., a corporation of Illinois
Application September 19, 1947, Serial No. 775,074
2 Claims. (Cl. 29—285)



2. As an article of manufacture, a clip for holding a gasket on an oil pan during assembly of

the pan and gasket on an engine and for accurately aligning holes in the gasket pan and engine, comprising: a U-shaped body composed of spring material; an extension on one arm of said body disposed at right angles to the arm and extending therefrom away from the other arm; a cylindrical boss fixed on said extension and having a diameter enabling the boss to fit snugly in holes in the gasket and pan to accurately register the two members together; an extension on the other arm of said body, extending across the open end thereof into juxtaposition to said first extension; a head on said latter extension overlying said first extension and perforated to receive said cylindrical boss, said spring being tensioned to urge said head towards said first extension; and a conical tip on said boss extending beyond said head to register the holes in the gasket and pan with holes in the engine.

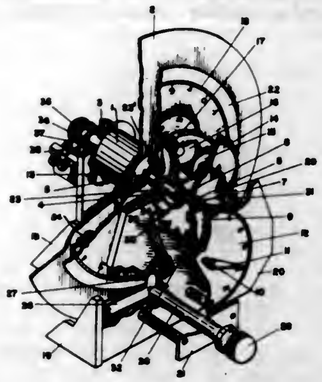
2,593,649
PENCIL SHARPENER
Arthur Owen Basson, Capital Park, Pretoria, Transvaal, Union of South Africa
Application October 23, 1950, Serial No. 191,680
In Union of South Africa March 6, 1950
7 Claims. (Cl. 120—95)



1. In a special sharpener, a rotary member suited to the removal of wood obliquely from a pencil to expose the lead in adequately supported and pointed form, means for presenting the pencil obliquely to the rotary member in resilient engagement therewith, means for rotating the pencil uniformly about its axis inside the pencil-presenting means while the pencil is resiliently engaged with the rotary member so as to form an ordinary conical point, and, alternatively employable to the last-mentioned means, and for forming instead a flat-sided chisel point, the combination with other means for rotating the pencil about its axis inside the pencil-presenting means intermittently in half-rotations of means for angularly moving the pencil-presenting means to disengage the pencil from the rotary member momentarily while each of said half-rotations is effected.

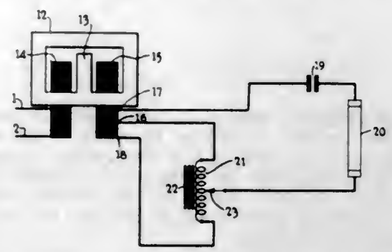
2,953,650
TIME COMPARATOR
William Ogle Bennett, Jr., Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application July 15, 1944, Serial No. 545,159
3 Claims. (Cl. 73—6)

1. A time comparator for comparing the audible ticks of a chronometer with standard time comprising a seconds hand synchronized with standard time, means for advancing or retarding said seconds hand from standard time, means indicating the amount of said advancement or retardation, a microphone for amplifying the ticks of said chronometer, an electrical circuit controlled by said microphone, a visible signal means synchronized with said seconds hand, a switch operated by said synchronized signal means, a circuit controlled by the ticks of said chronometer connected to said switch whereby



the simultaneous closing of the switch by said synchronized means with a tick of said chronometer will operate said visible signal.

2,593,651
WATTAGE CONTROL SYSTEM FOR VAPOR ARC LAMPS
Lester F. Bird, Newark, N. J., assignor to Hanovia Chemical and Manufacturing Company, Newark, N. J., a corporation of New Jersey
Application January 20, 1950, Serial No. 139,624
2 Claims. (Cl. 315—100)

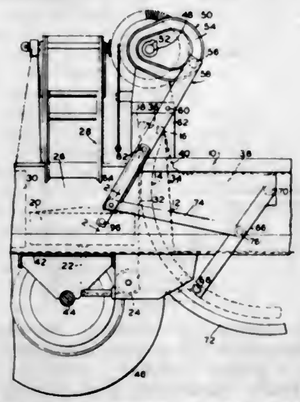


1. An operating system for varying the output level of discharge devices during operation and maintaining a substantially constant wattage at the selected levels of output, comprising in combination a transformer having a magnetic core structure and mounted thereon a primary input coil and a secondary inductive coil in spaced relation to each other with a high reluctance magnetic shunt between said coils, a source of current for said transformer said secondary coil being wound about a core composed of a material saturable during an appreciable portion of each half-cycle of alternating current, said secondary winding having a plurality of electrical taps, a movable commutating brush member electrically contactable with the turns of said secondary winding between two of said taps, a stabilizing wattage circuit, a capacitor and a gaseous discharge lamp in electrical series in said circuit, said capacitor having a kv.-a. rating of about 1½ to 6 times the kv.-a. rating of said gaseous discharge lamp, said circuit being connected to said brush member and across at least a portion of said secondary coil, said circuit being operative under a series stabilizing reactance provided by the reactance of said secondary coil in combination with the reactance provided by said capacitor.

2,593,652
PROCESS OF MAKING SOLUBLE SOLID SILICATES
Louis Blanchard, Saint Cloud, France, assignor to Societe Anonyme des Manufactures des Glaces et Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France
No Drawing. Application July 31, 1947, Serial No. 765,269. In France May 26, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires May 26, 1964
15 Claims. (Cl. 23—110)

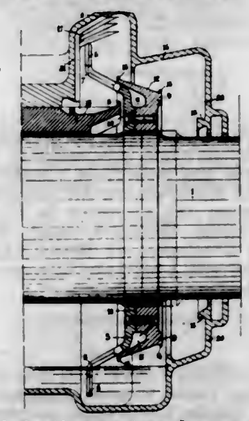
12. The method of making a dry, water soluble alkali metal silicate that includes the steps of concentrating a water solution of the alkali metal silicate, having a ratio of SiO_2 to metal oxide falling within a range equivalent to 2.5 to 4 by heating below its boiling point to an end point indicating a water content of 44 to 54%, cooling the mass with disruptive agitation, dehydrating the divided mass in the cold, heating samples of the mass from time to time until a sample does not agglomerate, and drying the mass at elevated temperature.

2,593,653
TWO-WAY SAFETY RELEASE FOR NEEDLE DRIVE FOR BALERS
James H. Bornsin, Memphis, Tenn., assignor to International Harvester Company, a corporation of New Jersey
Application August 19, 1949, Serial No. 111,207
4 Claims. (Cl. 100—20)



1. In a baling mechanism having a bale chamber with an associated frame structure and reciprocating means for compressing hay in said chamber, a bale tie-forming means including means for holding a supply of tie-strand, a lever arm mounted on the bale chamber for oscillatory motion, an arcuate tie-strand carrying needle mounted on an end of said arm in a position to be moved into and through the bale chamber by oscillation of the arm, means for guiding a tie-strand from said supply to said needle, driving mechanism for said needle including a lever mounted for oscillation on the frame structure associated with the bale chamber, a swingable link pivoted to said lever, a member pivotally connected to said link adjacent one end and pivotally secured to the lever at the other end for oscillating said lever arm, a spring-loaded latch member carried by said member and said swingable link, said latch member being releasably engageable with a portion of the lever whereby when a predetermined tension is reached on the tie-strand, the latch will release thereby preventing breaking of the tie-strand and damage to the mechanism, means carrying the spring-loaded latch member comprising said swingable link having spaced arm portions, yieldable means normally holding said arm portions together, said member having spaced arm portions, and means joining one of each of the arm portions of the swingable link and the member, a projecting portion on each of said joining means, said lever having socket means for engagement by said projecting portions, whereby needle drive continues as long as the projecting portions engage the socket means and ceases when the projecting portions ride out of the socket means.

2,593,654
MECHANICAL LUBRICATION OF AXLE BOXES
Jean Bouvat-Martin, Paris, France, assignor to Societe-Anonyme dite: Societe Generale Isothermos, Paris, France
Application February 7, 1947, Serial No. 727,997
In France August 30, 1946
3 Claims. (Cl. 308—85)

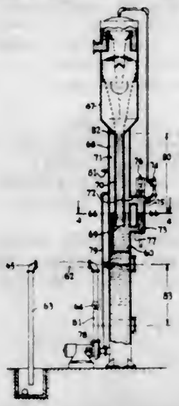


1. In a lubricating system for an axle box involving, a bearing an oil-receiving basin in the upper surface of said bearing, an axle box, an oil supply located in the bottom of said axle box, an axle journalled in said bearing, oil scooping paddles rotatable with said axle for conveying oil from said supply to said basin and an oil-recovering and deflectin gring rotatable with said axle, the provision of means for supplying oil to said bearing irrespective of the rotational speed and longitudinal play of said axle comprising two interconnecting longitudinally arranged lubricating and oil-recovering chambers in said axle box, the wall of said oil-recovering chamber arranged along the axis of said axle being inclined away from said axis in one direction, said oil-recovering ring journalled to said axle within said oil-recovering chamber, a rim on said ring being inclined away from said axis in the other direction, arms on said ring extending into said lubricating chamber, and oil paddles secured to said arms, said arms extending longitudinally of said axis a distance at least equal to the maximum longitudinal play of said axle.

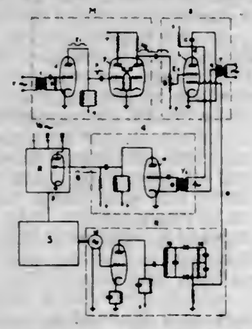
2,593,655
VAPOR CONDENSING APPARATUS
Henry E. Byer, Bernardsville, N. J.
Application March 27, 1948, Serial No. 17,547
14 Claims. (Cl. 261—24)

1. In a direct contact condenser wherein air and non-condensable gases are removed by liq-

uid weight through an aperture in said condenser, a barometric tail pipe with a closed gas collecting chamber at its upper end, liquid removal means connected to the lower end of said tail pipe, a throat piece connected to the bottom of said condenser, and having its lower end exhausting into said tail pipe, constant liquid level sealing means interposed between the lower exhaust end of said throat piece, and said gas collecting chamber, gas removal means connected to said condenser, and gas removal means connected to said gas collecting chamber, said removal means maintaining an absolute pressure therein between the pressure in the condenser and atmospheric pressure, said throat piece maintaining a column of liquid balancing the pressure differential between said condenser and said gas collecting chamber.

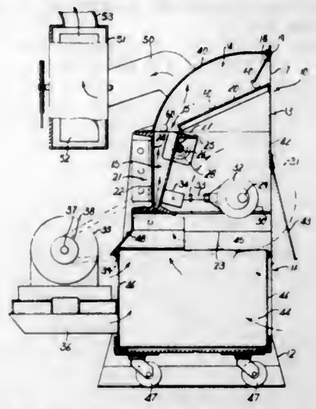


2,593,656
MOTOR SPEED CONTROL MECHANISM
Henri Chireix, Paris, France, assignor to Societe Francaise Radio-Electrique, a corporation of France
Application October 18, 1949, Serial No. 122,095
In France November 3, 1948
6 Claims. (Cl. 318—328)



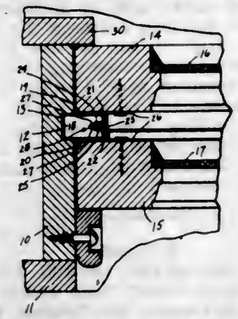
4. In an electric servo-mechanism for regulating and controlling a motor subjected to variations of speed and fed with a unidirectional current supplied by a rectifier having a thyratron tube fed by an A. C. line, the thyratron tube including a control grid permitting to control the output of the thyratron tube by selecting the instant of the alternating cycle in which a voltage rendering the thyratron tube conductive is applied to the grid, in combination, a voltage source supplying a sinusoidal voltage synchronous with the A. C. line; means responsive to the variations of speed and permitting to produce an error voltage in dependence on the difference between the instantaneous speed of the motor and the speed to be maintained; a source of rectangular pulses having a frequency of recurrence equal to a submultiple of the frequency of the A. C. line; a phase shifter unit for shifting the phase of the sinusoidal voltage by an angle depending as to sense and magnitude on the instantaneous value of the error voltage and the voltage of the rectangular pulses; means for converting the dephased sinusoidal voltage into pulses of short duration having a frequency of recurrence equal to the frequency of the sinusoidal voltage; and means for applying the pulses to the control grid of the thyratron tube, whereby the speed of the motor is kept substantially constant and hunting is substantially reduced.

2,593,657
AIR SWEPT CRUSHER FOR FLUORESCENT LIGHT TUBES
Allyn J. Coon, Wauwatosa, and William W. Gruel, Milwaukee, Wis., assignors to International Harvester Company, a corporation of New Jersey
Application June 10, 1949, Serial No. 98,274
4 Claims. (Cl. 241—47)



1. In a device for reducing fluorescent dust coated elongated light tubes comprising in combination, a frame structure, a casing supported on said frame structure, said casing including an exhaust chamber, a reduction chamber positioned below said exhaust chamber, said reduction chamber having an opening in communication with said exhaust chamber, said casing including a longitudinally extending tube receiving opening in communication with said exhaust chamber, a movable closure member over the receiving opening, a table positioned within the exhaust chamber adjacent to the receiving opening for receiving tubes, said table extending downwardly in inclined relation toward and adjacent the opening of said reduction chamber for distributing tubes thereto, a crushing mechanism within the reduction chamber, said crushing mechanism including a stationary anvil plate extending substantially the length of said reduction chamber and providing a vertical impact surface, a hammer pivotally connected within the reduction chamber adjacent said impact surface, said hammer having its upper edge positioned adjacent to the opening of said reduction chamber, said hammer being arranged and constructed to reciprocate with respect to said anvil for crushing the elongated tubes against the impact surface, a removable container positioned below the reduction chamber for receiving shattered elements of tubing, and a vacuum exhaust conduit in communication with said exhaust chamber for withdrawing elements placed in suspension within the device incidental to the reduction of the fluorescent tubes from the reduction chamber to the exhaust chamber and outwardly through the exhaust conduit.

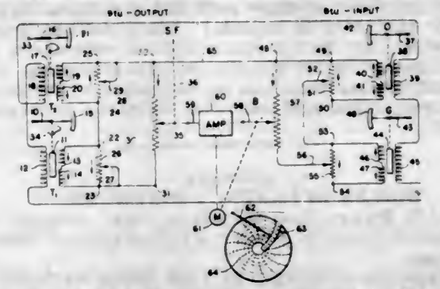
2,593,658
WINDOW SEAL STRUCTURE
Harry S. Davis, Metropolis, Ill.
Application July 19, 1950, Serial No. 174,607
4 Claims. (Cl. 20—69)



1. A metal parting strip and weather seal adapted to be secured to a window frame having an inset groove extending intermediate relatively movable sashes, comprising a metal channel-like tube having an inner base portion adapted to be embedded and secured within the said window frame groove to extend outwardly therefrom, said tube being formed with an outer exposed throat portion providing a sealing channel extending centrally and longitudinally thereof, and opposed sealing strips of Z-shaped cross-sectional form, each having an inwardly flanged portion thereof secured to the inner surface of its respective sash in a direction extending from said tube whereby said tube will have direct contact with the respective sashes to serve as a parting strip therefor, each said sealing strip having a sealing flange extending inwardly from the respective sashes and in a direction opposite to said first mentioned flange into and through the throat portion of said tube for sealing and sliding contact therewith.

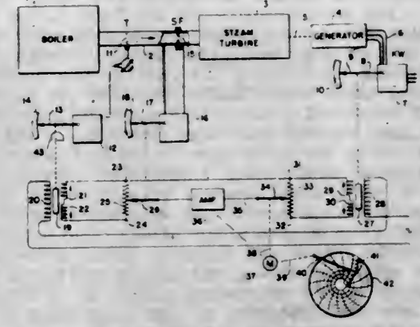
2,593,659
BOILER EFFICIENCY INSTRUMENT
Paul S. Dickey, East Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application January 9, 1948, Serial No. 1,463
6 Claims. (Cl. 73—112)

1. An efficiency meter for a vapor generator having liquid supply means and heated by the combustion of a plurality of dissimilar fluid fuels, including in combination, a separate rate of flow meter for the supply stream of each of the fluid fuels, adjustable means in connection with each of said meters for applying to the measurement a multiplier representing the B. t. u. per unit heat value of the respective fluid fuel supply whereby an effect is obtained continuously representative of the total B. t. u. rate of each fuel, means adding the total B. t. u. rates to obtain a measurement of total B. t. u. rate supplied to the vapor generator for combustion for heating the same, a rate of flow meter for the vapor leaving the generator, a separate temperature measuring device for the liquid supply and for the vapor discharge streams, a calculating system interrelating the vapor flow meter and temperature devices



continuously obtaining a measurement of total B. t. u. rate absorbed by the fluid passing through the vapor generator, and means continuously dividing the B. t. u. absorbed rate by the B. t. u. supply rate obtaining a manifestation of overall thermal efficiency of the vapor generator.

2,593,660
INSTRUMENT FOR MEASURING EFFICIENCY OF TURBOGENERATORS
Paul S. Dickey, East Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application January 9, 1948, Serial No. 1,464
4 Claims. (Cl. 73—112)



1. A turbo-generator efficiency meter including in combination, a steam flow meter for measuring the rate of steam supplied to the turbine, a temperature measuring meter determining temperature of the steam supplied, a kw. meter measuring the electrical output of the electric generator, a first movable core transformer whose core is positioned by the temperature measuring meter in accordance with the steam temperature corrected for non-linearity between temperature and heat content of the steam, a first resistance in circuit with the secondary of said first movable core transformer with a movable contactor positioned along its length by the steam flow meter in accordance with the magnitude of the steam flow rate to the end that the voltage appearing across either portion of the divided resistance is proportional to the heat input to the steam turbine, a second movable core transformer whose core is positioned by the kw. meter in accordance with the electric output of the generator, a second resistance with a

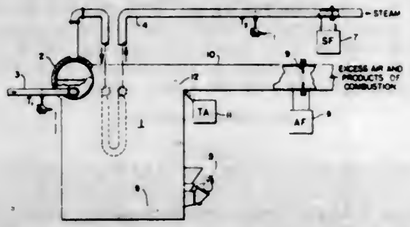
movable contactor in circuit with the secondary of said second transformer, a phase sensitive motor control amplifier in circuit between the two movable contactors and connected portions of each divided resistance, and motor means under control of the phase sensitive motor control amplifier to move said last mentioned movable contactor to maintain equal voltage drops between the two portions of the resistances in the circuit while simultaneously exhibiting the rebalance movement as an indication of the ratio between input and output of the turbo-generator unit.

2,593,661

BOILER EFFICIENCY INSTRUMENT

Paul S. Dickey, East Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware

Application January 19, 1948, Serial No. 3,150
9 Claims. (Cl. 73—112)



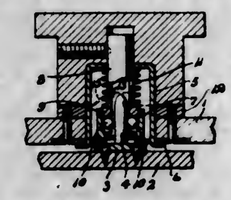
1. A boiler efficiency meter adapted to manifest the percent overall efficiency of a boiler by continuously calculating the ratio of heat output rate and heat input rate comprising in combination, means measuring the total heat which has been absorbed by the fluid during its passage through the boiler, means measuring the rate of flow of air and gases passing through the boiler and multiplying the rate by the number of heat units theoretically liberated per pound of air consumed, a device continuously analyzing the gases leaving the boiler providing a manifestation in terms of ratio between theoretical combustion and actual combustion conditions, and a calculating system responsive to said means and said device and adapted to provide a continuous manifestation of the ratio between heat output and heat input in terms of overall boiler efficiency, the second means and device so arranged in the calculating system as to divide the said multiplication by the ratio producing a result indicative of heat input.

2,593,662

LATCH STRUCTURE

Henry Randel Dickinson, Grand Rapids, Mich., assignor to Grand Rapids Hardware Company, Grand Rapids, Mich., a corporation of Michigan

Application September 19, 1949, Serial No. 116,566
1 Claim. (Cl. 292—300)



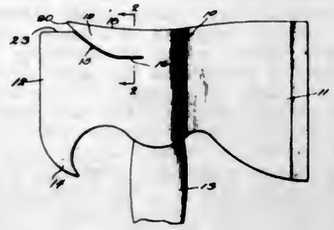
In a latch structure a hollow housing having an outer end and an open inner end closed except for a central opening therethrough adapted to extend, at its open end portion, through a closure on which it is adapted to be secured, a plate at the open end of the housing secured thereto adapted to be connected at the inner side of a closure, said plate having an opening therein for entrance into the open end of said housing, a stem slidably extending through the opening in the closed end of the housing, cooperating gripping means on the stem at its inner end, and on said plate, and a spring around said stem for moving said stem inwardly to bring said gripping means into operation adapting it to grip a keeper pin extending through said opening in the plate into the housing, a member secured to the inner end portion of the stem, a ring surrounding the housing adapted to be secured at the outer side of a closure in fixed relation to the housing between the ends of the housing, said ring, at one portion of its length, having an outwardly extending projection and said member secured to the stem having a cooperating recess to receive said projection, whereby on pulling the stem outwardly and turning the stem about its longitudinal axis by said member, the stem is pulled and said gripping means is released.

2,593,663

TOOL FOR SEVERING METAL BANDS ON CRATES AND THE LIKE

Joseph A. Fanelli, Des Moines, Iowa

Application August 2, 1951, Serial No. 240,021
3 Claims. (Cl. 81—3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



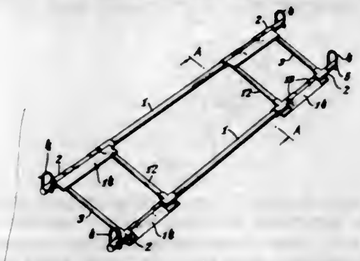
1. A tool for severing a taut metal band comprising a body portion provided in one side with a slot which extends laterally inwardly of said side and generally longitudinally thereof, the innermost portion of the slot being straight and generally parallel to said side for accommodating the entire width of the band when the band enters the slot, the slot forming with said side a tapered wedge for engagement beneath the band so that the band is forced into the innermost straight portion of the slot when the wedge moves transversely of the band, the free end of the tapered wedge projecting beyond said side of the body portion to facilitate the passage of the wedge under the band, there being substantially sharp corners formed where the opposed faces of the slot meet the opposite sides of the body portion, and a handle secured to the body portion for rocking the same about said side having the slot.

2,593,664

APPARATUS FOR LIFTING AND TRANSPORTING WHEELED VEHICLES

George Frederick Fearfield, Eltham, London, and Sydney Parsons, Horley, England, assignors to Furness Withy & Company Limited, London, England, a British company

Application December 21, 1949, Serial No. 134,162
In Great Britain November 15, 1948
4 Claims. (Cl. 294—67)



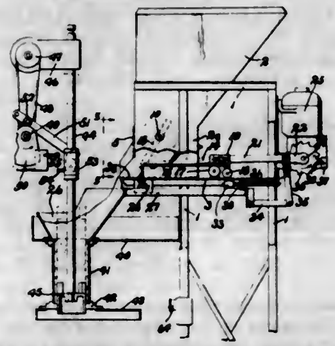
1. Apparatus for loading on and unloading wheeled vehicles having four or more wheels such as automobiles, comprising a pair of longitudinal frame members of a length corresponding to the width of the vehicle to be loaded-on or off, a sling to which the longitudinal frame members are connected, pairs of transverse frame members secured near the ends of each of the longitudinal frame members to maintain the longitudinal frame members in fixed spaced relation at a distance corresponding to the average diameter of the wheels or tires of the vehicles to be loaded on or off, and plate members mounted to rotate on the ends of each longitudinal frame member so as to adjust the spaces between the longitudinal frame members in accordance with the wheel or tire diameter of the vehicle being loaded by rotating the plate members to bring the ends of one or both pairs of plate members as may be required into position to rest on the transverse frame members.

2,593,665

APPARATUS FOR FEEDING CONCRETE INTO MOLDS

Charles E. Glassen, Elmore, Ohio, assignor to W. E. Dunn Mfg. Company, Holland, Mich., a corporation of Michigan

Application January 18, 1951, Serial No. 206,679
8 Claims. (Cl. 25—103)



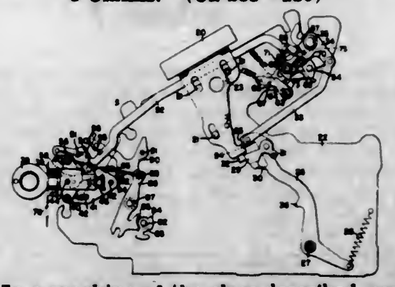
1. In a concrete feeding machine, a main supply hopper having a bottom and upwardly extending sides, the outer side thereof having an outlet opening extending upwardly for a distance above said bottom, means mounted for back and forth movements passing over the bottom of said hopper from its rear side outwardly and back for ejecting a predetermined amount of concrete from said hopper, a funnel for receiving the ejected concrete mounted at the outer end portion of and below the bottom of said hopper, having an open lower end adapted to be located over a concrete receiving form or mold, a reciprocating member to which said funnel is secured slidably mounted on and below the bottom of said hopper, means for quickly bodily moving said reciprocating member and attached funnel back and forth on operation thereof, and a common means for operating said concrete ejector means and said reciprocating member.

2,593,666

KEY LOCK MEANS FOR CASH REGISTER CONTROL MECHANISM

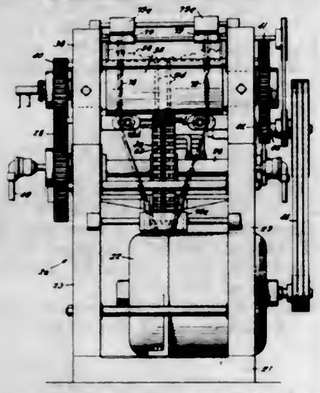
Mayo A. Goodbar, Albert J. Green and Harold O. Randall, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application April 5, 1950, Serial No. 154,176
8 Claims. (Cl. 235—130)



1. In a machine of the class described, capable of transactions involving several preliminary operations of a similar nature and a final operation of a different nature, the combination of means including a lever rockable in one direction to initiate machine operation and restorable in the opposite direction to terminate machine operation; a rockable arm; a link operatively connecting the arm and the lever for concert movement; a locking shoulder on the arm; a latch constructed and arranged to coact with the locking shoulder; a lock and key mechanism; yieldable connections between the lock and the latch whereby unlocking the lock moves the latch out of coacting relationship with the shoulder, and whereby locking the lock moves the latch into coacting relationship with the shoulder to obstruct movement of the lever in said one direction and thereby prevent operation of the machine; a spring-urged retainer coacting with the latch in said preliminary operations to retain said latch out of coacting relationship with the shoulder to prevent locking the machine against operation until the entire transaction is completed; means including a movable member located in one position in said preliminary operations but movable to another position in said final operation; a part operatively connected to the member for movement in unison therewith; means on the arm coacting with the part, when said part is moved to said another position by the member and during restoring movement of said arm, to rock said part relatively to said member; and connections between the part and the retainer whereby relative movement of said part moves said retainer out of coacting relationship with the latch to free said latch for movement into coacting relationship with the locking shoulder near the end of the final operation.

2,593,667
METHOD AND APPARATUS FOR MOLDING PLASTIC ARTICLES
Henry Z. Gora, Stratford, Conn., assignor to The Gora-Lee Corporation, Stratford, Conn., a corporation of Connecticut
Application August 19, 1948, Serial No. 45,190
6 Claims. (Cl. 18—2)

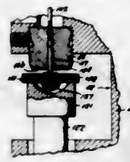


1. The method which comprises the steps of milling between mill rollers a quantity of moldable material until one of the mill rollers has an enveloping surface layer of plasticized material of the desired degree of plasticity and of predetermined thickness; cutting and removing from two adjacent parts of the central portion of the layer two continuous plasticized strips leaving gaps in the layer; and building banks on the mill rollers by continually supplying additional and replenishing material between the location of each gap and the adjacent end of the mill rollers to maintain the banks in sufficient volume to cause the material to creep toward the center portions of the mill roller and fill the gaps in the enveloping layer as the latter passes through the nip of the rollers.

4. A machine for continuously molding articles comprising plasticizing mill rollers; means at the end sections of said mill rollers to deflect inwardly separate banks of moldable material to form an enveloping surface layer of plasticized material of the desired degree of plasticity and of predetermined thickness on one of said mill rollers; means adjacent the central section of said mill rollers to separate a plurality of continuous strips from the surface layer of plasticized material; means to guide said strips individually to a plurality of pairs of molding dies; means to form separate molded articles from the central portions of each of said strips, while leaving the strips continuous but skeletonized; means to separate said molded articles from said skeletonized strips; and guide means adjacent the end sections of the mill rollers to return said skeletonized strips individually to the mill rollers to be commingled with replenishing material added thereat to maintain the separate banks of moldable material being deflected and worked inwardly to the central section of the mill rollers.

2,593,668
MANUFACTURE OF COMPOSITE ARTICLES
Henry Z. Gora, Stratford, Conn., assignor to The Gora-Lee Corporation, Stratford, Conn., a corporation of Connecticut
Application June 3, 1949, Serial No. 96,965
29 Claims. (Cl. 18—5)

18. A machine for making covered tacks and the like comprising a rotary carrier; a circular row of tack holding means mounted on said carrier in spaced relation and traveling by the rotation of the carrier in a circular path past a loading station, said tack holding means each having a bore to receive the shank of a tack, a die face surrounding the bore and means for spacing the head of the tack from said die face; means at the loading station to insert a tack in the bore of each holding means as it passes the loading station; means for guiding a continuous strip of moldable plastic material into the circular path of travel

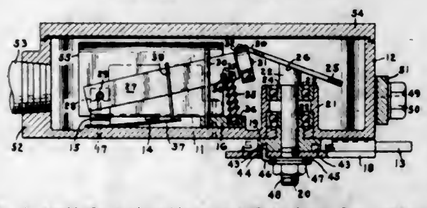


of said tack holding means; a plurality of molding dies mounted in said rotary carrier each aligned with one of said tack holding means, said aligned molding dies and die faces each having cooperating surfaces to engage the strip and remove a portion thereof; and means causing relative movement between said tack holding means and the molding die to cause the latter to penetrate said strip and flow-mold said portion over, around and under the head of the tack to cover the same.

2,593,669
PRODUCTION OF PARAFORMALDEHYDE
Bertrand W. Greenwald, Pawhuska, and William B. Hughes, Barnsdall, Okla., assignors to Cities Service Oil Company, Bartlesville, Okla., a corporation of Delaware
No Drawing. Application February 9, 1949, Serial No. 75,496
1 Claim. (Cl. 260—340)

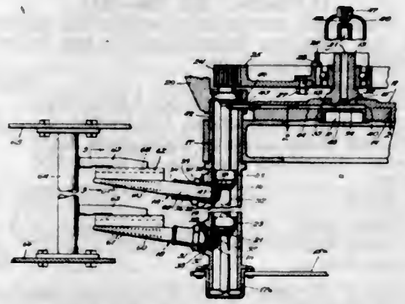
The process of producing a product having essentially the same reactivity and solubility characteristics as commercial paraformaldehyde including concentrating an aqueous solution of formaldehyde under vacuum conditions to a paraformaldehyde having a formaldehyde assay of from 92 to 94 per cent, and blending the paraformaldehyde thus produced with alpha polyoxymethylene in such proportions that the blend will assay more than 95 per cent formaldehyde by weight.

2,593,670
SWITCH ACTUATING MECHANISM
Henry W. Grikscheit, Detroit, Mich.
Application November 3, 1948, Serial No. 58,065
5 Claims. (Cl. 200—47)



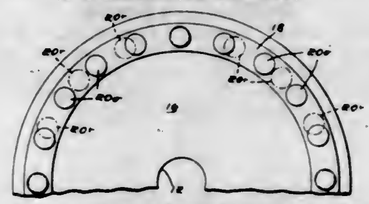
5. A switch actuating mechanism for use with a switch element of the type wherein the switch contacts thereof are normally urged to one position and movable to a second position, comprising a movably mounted switch actuating member normally urged in a direction of movement corresponding to the normally urged direction of movement of said switch contacts, a main actuating member spaced from said switch actuating member and mounted for actuating and return movement, said actuating movement corresponding in direction to the normally urged direction of movement of said switch actuating member, one-way motion transmitting means interposed between said main actuating and switch actuating members comprising a stirrup connected to said switch actuating member and straddling said main actuating member, said motion transmitting means operating to release said switch actuating member for the normally urged movement thereof during movement of said main actuating member in an actuating direction and to positively impart movement to said switch actuating member during return movement of said main actuating member, and means to produce actuating and return movement of said main actuating member comprising a spring normally urging said main actuating member in a return direction of movement, and a control cam contacting said main actuating member and adapted to produce actuating movement thereof.

2,593,671
COTTON PICKER SPINDLE LUBRICATING AND MOISTENING SYSTEM
Clarence R. Hagen and Carl A. Kallgren, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application December 30, 1947, Serial No. 794,746
6 Claims. (Cl. 56—41)



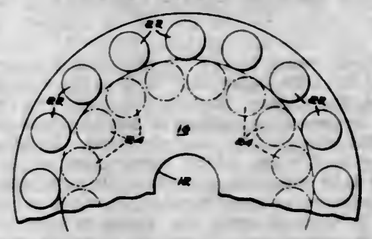
1. Cotton picking apparatus comprising a cotton picker spindle carrier rotatable about a vertical axis, spindle bearings on said carrier for revolving about said axis when the carrier rotates, said bearings being spaced radially outward from said axis and their axes being arranged generally radially of such axis, picker spindles having respective journal portions journaled in said bearings and picking portions with crop-engaging surfaces projecting outwardly of said bearings radially of the carrier, a distributing structure for a lubricant for said bearings and for moistening the crop picking portions of said spindles, said structure being rotatable coaxially with the carrier and comprising a member with an upwardly facing liquid distributing surface intersected by the carrier axis at a point from which like-shaped elements of said surface symmetrically radiate to cause radial distribution thereon of liquid deposited at said point, means for depositing liquid at said point of the liquid distributing surface, a plurality of liquid outlet means spaced apart about the perimeter of said surface for receiving and conducting away the radially distributed liquid, conduit means rotatable with the carrier and communicating between said outlet means and respectively associated of said bearings for conducting the distributed liquid thereto, and liquid conducting means including the journal portions of the spindles and bearings receiving the same constructed with sufficient clearance space therebetween that the lubricating liquid migrates through such space onto the crop engaging surfaces of the spindles pursuant to rotation of the carrier and rotation of the spindles in their bearings to accommodate a constant delivery of the liquid onto such spindle surfaces for diluting plant juices and thereby diminish the tendency of such juices to cause an acretion of foreign particles upon such spindle surfaces.

2,593,672
BUFFING WHEEL SECTION
Elisha W. Hall, Scituate, Mass.
Application July 17, 1951, Serial No. 237,171
5 Claims. (Cl. 51—193)



1. A buff section adapted for assembly on a spindle side by side with other like sections to form a buffing wheel said section comprising a relatively unyielding center and an annulus of abrading material encircling its periphery and anchored thereto, the center having on its obverse and reverse sides at substantially the same distance radially from the center annular series of spaced axially extending projections, at least outer portions of the projections extending over less than one-half the circumference whereby the projections on the obverse sides of two sections or those on the reverse side may nest with at least partial axial overlapping, the projections on the obverse side and those on the reverse side being differentially spaced to provide circumferential overlapping of projections of two adjacent sections assembled obverse to reverse.

2,593,673
BUFFING WHEEL SECTION
Elisha W. Hall, Scituate, Mass.
Application July 17, 1951, Serial No. 237,172
2 Claims. (Cl. 51—193)



1. A buff section adapted for assembly on a spindle side by side with other like sections to form a buffing wheel, said section comprising a relatively unyielding center and an annulus of buffing material encircling the periphery of the center and anchored thereto, the center having on its sides axially extending bearing elements, the radial location of which is different on the two sides respectively thereby providing, when like sides of two sections are apposed, for substantially endwise contact of the elements with consequent relatively distant spacing of the con-

trol planes of the two sections and, when unlike sides are apposed, for axial overlapping of the elements with consequent relatively reduced spacing of the central planes.

2,593,674
KITCHEN UTENSIL
Robert S. Harnsberger, Staunton, Va.
Application March 17, 1949, Serial No. 81,890
1 Claim. (Cl. 30—142)



A kitchen utensil, comprising a handle portion and a resilient, flexible blade made fast near one end, by a shank, to said handle portion, said blade having a width substantial relative to its length and having a free, outermost, generally transverse end, said blade being comprised of a sheet of resilient and flexible material having substantially parallel longitudinal edges, one of which latter is sharpened and comprises a cutting edge, and the other of which is unsharpened and is curved at its end remote from the handle portion in such manner as to merge with and into the said transverse end of said blade substantially tangentially and in a smooth, continuous and uninterrupted compound curve of substantial radii of curvature, the blade being thinned in a direction away from the handle towards its outer, transverse end to impart flexibility in all directions, whereby the combination of the thinned edge and the sweeping, continuous and uninterrupted compound curve of substantial radii of curvature aforesaid enables the blade to be conformed closely to the curves of kitchen receptacles and the like of wide range of curvature, said blade being longitudinally and transversely curved near its outer end to provide a concavo-convex formation therein, thereby serving to scoop up small quantities of liquid while retaining flexibility, the unsharpened, longitudinal edge of said blade which terminates at its outer end in said continuous curve, being so related to said concavo-convex formation, that when the blade is viewed with the concave side of said formation disposed uppermost, the said unsharpened edge will lie to the left of the longitudinal axis of the blade.

2,593,675
PHYSIOTHERAPY TRACTION TABLE
Orville L. Hastings and Forrest H. Vaughn, Long Beach, Calif.
Application August 29, 1949, Serial No. 112,994
1 Claim. (Cl. 128—71)

A physio-therapy traction table comprising a table top, a pair of rods journalled on said table and slidable endwise thereof, a foot clamp mounted on one of said rods, a head clamp mounted on the other of said rods, an electric motor mounted on the table top, a pair of pitmans reciprocally driven by said motor, a clamp encircling each of said rods, means adjustably securing each of the clamps to said rods, said pitmans being pivotally attached one to each of said clamps, means to adjust said foot clamp on a rod comprising a sleeve encircling the rod and rising therefrom, a finger extending from the sleeve and attached to the foot clamp, and a screw threaded through said sleeve, means mounting the screw on the table top whereby said screw may move the sleeve on the rod.



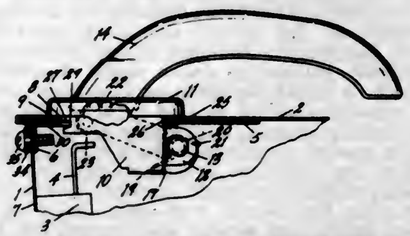
2,593,676
SLUSHING COMPOSITIONS
Ernest R. Irwin, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application August 3, 1949, Serial No. 108,425
11 Claims. (Cl. 106—14)

2. A slushing composition consisting essentially of the following ingredients in the following approximate proportions:

	Percent
Metal soap of mahogany acids having molecular weights of about 470 to 500	1–14
Polyvalent metal soap of mahogany acids having molecular weights of about 350 to 450	1–14
Petrolatum	5–15
Petroleum resid	0.5– 5
Pour point depressor	0– 2
Hydrocarbon oil	65–85

the sum of the mahogany acid soaps amounting to from about 5% to about 15% of the total composition, said petroleum resid having a furol viscosity at 210° F. of from about 200 seconds to about 1000 seconds, and said pourpoint depressor being obtained by the chemical condensation of a chlorinated paraffin wax and a naphthalene in the presence of a Friedel-Crafts catalyst.

2,593,677
DOOR HANDLE MOUNTING
Gerald V. Jakeway, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich.
Application June 23, 1951, Serial No. 233,129
9 Claims. (Cl. 292—336.3)



6. A door handle comprising a support having an opening therethrough, an escutcheon, a bracket connected to said escutcheon to project through said opening in said support and having a rearwardly inclined cam coacting with the rear edge of the opening in said support, said bracket having a rearwardly inclined cam at its front end, a clamp member slidably mounted on said support and coacting with said cam at the front end of said bracket, an adjusting screw for said clamp member having threaded engagement with said support for adjusting said clamp member into camming engagement with said cam and thrust engagement with said bracket for urging said cam at the rear of said bracket into camming retaining engagement with the rear edge of the opening in said support, a handle pivotally mounted on said bracket, said handle and bracket being provided with coacting stops limiting return movement of the handle, and a spring operatively associated with said bracket and handle to retract said handle.

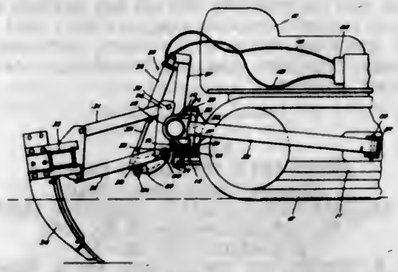
9. A door handle assembly comprising a handle supporting bracket provided with an escutcheon, the bracket being provided with front and rear rearwardly inclined cam members, a clamping member mounted for adjustment relative to said bracket to coact with the front cam member for camming engagement therewith and having longitudinal thrust engagement with the bracket for urging the rear cam member thereof into engagement with a support member on which the bracket is mounted, and a handle pivotally mounted on said bracket.

2,593,678
ORTHOPEDIC MATTRESS
Roy Johnson, Chicago, Ill., assignor to American Hospital Supply Corporation, Evanston, Ill., a corporation of Illinois
Application August 14, 1948, Serial No. 44,371
2 Claims. (Cl. 5—351)



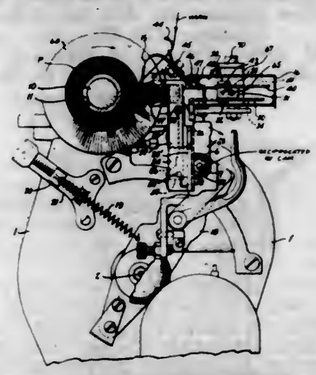
1. A mattress comprising a series of relatively narrow slats arranged in edge to edge relation, webbing straps interlaced between said slats to unite the same in spaced apart relation, a mattress body about said slats, and a cover enclosing said body.

2,593,679
IMPLEMENT ATTACHING STRUCTURE
Lee H. Kaupke, Stockton, Calif., assignor to International Harvester Company, a corporation of New Jersey
Application December 4, 1948, Serial No. 63,504
7 Claims. (Cl. 97—50)



3. An implement attaching structure for a crawler type tractor having laterally spaced track frames comprising a transverse rigid drawbar at the rear of the tractor extending to opposite sides thereof, a pair of arms connected to the ends of said drawbar on vertical pivots and extending forwardly along the sides of the tractor, means for connecting the forward ends of the arms to the track frames intermediate the ends of the tractor on vertical pivots whereby the drawbar may swing laterally with respect to the tractor, means carried by the tractor for holding the drawbar at a fixed height above the ground including guide means adapted to support and confine said drawbar throughout the range of transverse swinging thereof, and means for attaching a tool-carrying bar to the drawbar for vertical movement with respect thereto between operating and transport positions.

2,593,680
WINDING MACHINE
Frank L. Lamb and Edward Yefko, Westfield, Mass., assignors to Foster Machine Company, Westfield, Mass., a corporation of Massachusetts
Application February 11, 1950, Serial No. 143,634
16 Claims. (Cl. 242—43)



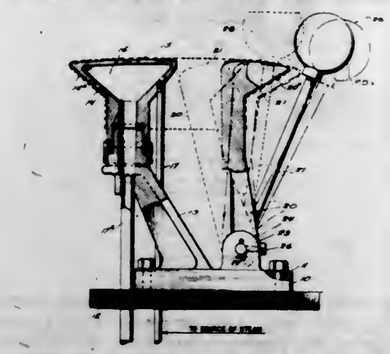
8. In a winding mechanism of the type having a guideway mounted to swing away from a package spindle as the package builds up, in combination, a yarn delivery guide subjected to traverse reciprocation while held out of contact with the surface of the package, a pressure roll bearing against the surface of the package, said roll having continuous contact over a substantial part of the length of the package, and means for moving the pressure roll axially of the package.

2,593,681
METHOD OF MAKING FREELY FLOWABLE COMPOSITION OF TWO RUBBERS
Arthur J. Leyden, Waltham, Mass., assignor to Dewey and Almy Chemical Company, North Cambridge, Mass., a corporation of Massachusetts
No Drawing. Application October 30, 1948, Serial No. 57,631
5 Claims. (Cl. 260—33.6)

1. The method of making a freely flowable rubber composition which is smooth, lump-free and fine grained with substantially all of the particles invisible to the naked eye and comprising a homogeneous two-phase liquid mass consisting essentially of two rubbery elastic millable polymers having different solubility characteristics in the same solvent, and a volatile organic liquid which is a solvent for one of said polymers and a non-solvent for the other thereof, one of said polymers being dissolved in the solvent forming a solution and the other being dispersed as fine, undissolved particles in the solu-

tion, the external phase being constituted by the solution, said composition being characterized by the fact that microscopic examination and analysis of the two rubbery components derived by diluting and centrifuging the fluid composition shows that one component consists of rubber in the form of particles which, although they may be swollen, are still discrete and clearly visible while examination of the other component fails to show any particles at all, comprising intermilling two of said polymers, said two polymers being initially separate, subjecting the milled mass to mechanical treatment in the presence of the organic liquid, and continuing the mechanical treatment in the liquid until the insoluble rubber is disrupted and dispersed in the form of discrete particles suspended in the solution of the soluble rubber.

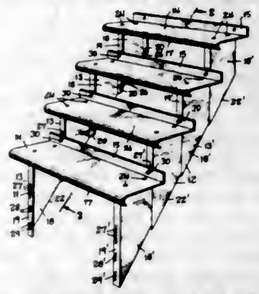
2,593,682
PRESSING DEVICE FOR GARRISON CAP COVERS AND THE LIKE
Paul A. Loomis, Philadelphia, Pa.
Application January 20, 1950, Serial No. 139,752
4 Claims. (Cl. 223—26)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A pressing device for garrison cap covers and the like comprising a support; a hollow head fixed to the support and having a top adapted to form a smooth pressing surface; means including a source of steam for internally heating the fixed hollow head; a movable head shaped complementarily to the fixed head and forming therewith a support for a garrison cap cover; the movable head being pivotally mounted at its lower end on said support near the fixed head; operator-controlled means comprising a lever arm fixed to the movable head for moving the movable head into close proximity to and away from the fixed head; and a weight fixed to the outer end of the lever arm and constituting automatic continuously operating means acting on the movable head to effect separation of the heads except when the operator moves the movable head toward the fixed head.

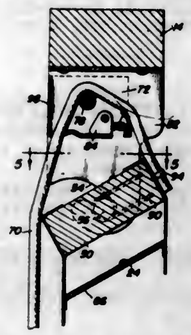
2,593,683
PREFABRICATED STAIR
George W. Lyons, North Guilford, Conn.
Application July 20, 1949, Serial No. 105,714
2 Claims. (Cl. 189—43)

1. A sectional stringer for a flight of stairs comprising a plurality of similar flanged tread-supporting plates, said plates each having a tread-supporting flange along its upper edge and parallel side flanges along its side edges; adjusting-means on the side flanges of said tread-supporting plates; and fastening-means in engagement with the adjusting-means of the abutting side flanges of successive tread-supporting plates



and securing the latter together substantially rigidly and in vertically-adjusted position with respect to each other.

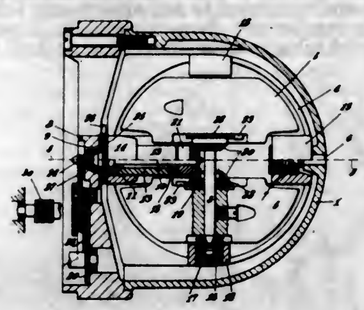
2,593,684
VENETIAN BLIND
Edmund A. Lyons, Brooklyn, N. Y.
Application August 25, 1950, Serial No. 181,474
2 Claims. (Cl. 160—175)



1. In a Venetian blind including a tilt board, first and second brackets rotatably supporting the ends of said tilt board, resilient means connecting said first bracket to said tilt board and urging the tilt board to rotate in one direction, a case secured to said first bracket and including a front wall, a jaw pivoted in said case for vertical swinging movement toward and away from said front wall, a guide forming part of said case and disposed behind the jaw, a roller supported in the case above the jaw and disposed adjacent said front wall, and a tilt cord attached at one end to the tilt board and extending over the guide and the roller and between the jaw and the front wall for rotating the tilt bar against action of the resilient means, said jaw and said front wall coacting to grip the cord therebetween, thereby retaining the tilt board in a selected rotated position.

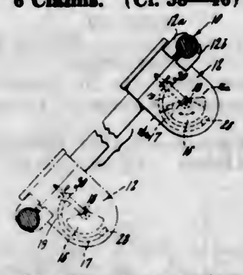
2,593,685
TIMEPIECE WINDING DEVICE
Zvonko Maar, Rome, Italy
Application April 5, 1948, Serial No. 19,038
In Switzerland March 15, 1948
11 Claims. (Cl. 58—46)

1. A winding-up mechanism for a timepiece adapted to be arranged on the steering wheel of a vehicle to take up vibrations from said vehicle and to be moved to and fro by the driver through actuation of said steering wheel; comprising a casing including means for mounting said casing on said steering wheel, two oscillatory pendulum masses provided with means for oscillatably supporting one within the other and within said casing, a common output spindle for winding said



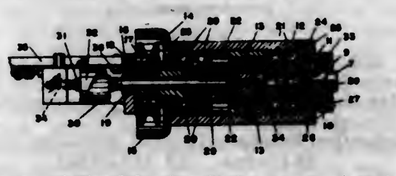
timepiece, each of said pendulum masses being provided with a corresponding axle and with means coacting with said axles, respectively, to rotate said common output spindle in response to oscillations of said masses.

2,593,686
SELF-WINDING TIMEPIECE FOR VEHICLES
Zvonko Maar, Zurich, Switzerland
Application June 17, 1948, Serial No. 33,575
6 Claims. (Cl. 58—46)



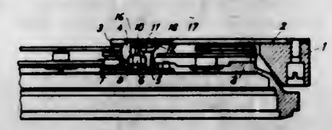
3. The combination, in an automotive vehicle, of a steering wheel forming part of said vehicle, with a timepiece of the type adapted to be wound, a winding-up mechanism therefor arranged on said steering wheel, said winding-up mechanism including an operative connection to said timepiece and being provided with a plurality of nested pendulums pivoted for oscillation within one another, said operative connection including a drive from said pendulums, said pendulums being arranged to swing in different planes with respect to each other to about 360° around their respective axes of oscillation.

2,593,687
WORK HOLDER ORIENTING DEVICE
Ralph B. Mentzer, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application June 28, 1949, Serial No. 101,887
1 Claim. (Cl. 279—53)



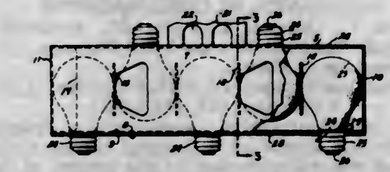
In a specialized boring lathe, a special chuck adapted to receive a workpiece at a definite angular position, an overrunning clutch type ratchet driving mechanism, a cylindrical rod connected to said ratchet driving mechanism, a second cylindrical rod housed within said first cylindrical rod, a chuck housed within and opened and closed by said second cylindrical rod, means bearing against said second cylindrical rod and forcing said chuck into workpiece holding position and driving contact with said first cylindrical rod, a hollow extension on said second cylindrical rod extending beyond said ratchet driving means, a cam on said extension, a manually operated lever for engaging said cam to simultaneously orient said chuck to loading position and to release said chuck from said second cylindrical rod holding means for release of said finished workpiece and proper positioning for the reception of said second workpiece.

2,593,688
TIMEPIECE AUTOMATIC WINDING MECHANISM
Friedrich Meyer, Grenchen, Switzerland, assignor to Felsa S. A., of Grenchen, Switzerland, organised under laws of Switzerland
Application December 29, 1947, Serial No. 794,343
In Switzerland July 9, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires July 9, 1962
8 Claims. (Cl. 58—82)



1. In a watch or clock movement, a fixed part, a stepped pin fixed at its thicker portion to said fixed part, a shoulder of a radial dimension not larger than said thicker portion, carried by the thinner portion of said stepped pin, a hub member having an axial through bore, two bearings pivotally receiving said stepped pin and fixed to said hub member in the ends of said through bore at different sides of said shoulder, so as to allow removal of said hub member in axial direction away from said fixed part, a pendulum winding member fixed to said hub member adjacent to the end of said through bore away from said fixed part, and a spring-loaded locking means attainable from the outside and laterally passing through said hub member to enter said through bore below said shoulder and between said bearings and being retractile from said through bore.

2,593,689
LAMP CONTAINER
Don G. Mitchell, Summit, N. J., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application September 11, 1946, Serial No. 696,249
6 Claims. (Cl. 229—65)



1. A package of electric light bulbs comprising a plurality of bulbs of the type having a base and an enlarged portion, a knockdown carton

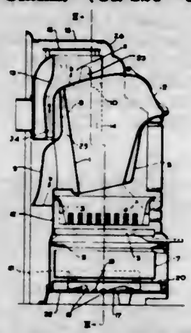
enclosing said enlarged portions, said carton having five panels including overlapping end panels both apertured and penetrated by the bases of certain of said light bulbs, the center panel of said five panels being apertured and penetrated by the bases of the others of said bulbs, the remaining panels of said five panels being arranged on opposite sides of the enlarged portions of said bulbs and having flaps struck out to provide sight openings for viewing the contained bulbs during tests, said flaps extending between adjacent ones of said bulbs, and a handle struck up from said center panel.

2,593,690

MAGAZINE TYPE HOT-AIR STOVE FOR BURNING SOLID FUEL

Karel A. Niermeyer, Leeuwarden, Netherlands

Application May 7, 1947, Serial No. 746,551
In the Netherlands May 22, 1939
Section 1, Public Law 690, August 8, 1946
Patent expires May 22, 1959
1 Claim. (Cl. 126—68)



A stove of the character described, comprising a main stove body including a fuel reservoir, a fire box, a grate and an ash receiving tray, a portion of said body forming a combustion chamber, a hot gas circulation double-walled hood surrounding the sides and rear of and having its inner walls bent over the top of said combustion chamber, means forming an air collecting chamber above the top of said main body and having an air escape aperture lying in a horizontal plane at the top of said collecting chamber opposite the top of the main body, means forming a gas flow connection between said combustion chamber and said gas circulation hood, said hood being spaced from said body to form a first air flow channel along said body to said collecting chamber, said fuel reservoir extending into said combustion chamber, and a jacket on said fuel reservoir forming a second air flow channel communicating at its upper end portion with said first air flow channel and having a downwardly-directed inlet nozzle at the lower rear portion thereof.

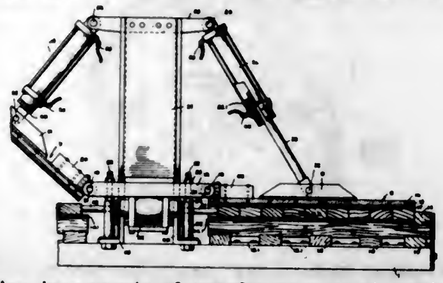
2,593,691

AUTOMATIC GLUING MACHINE

Rudolph F. Onsrud, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois

Application January 17, 1949, Serial No. 71,266
9 Claims. (Cl. 144—281)

7. A gluing machine comprising a rotatable table having a pair of horizontal carrier platens disposed one on each side of the center of table rotation, a clamping platen disposed above each carrier platen and mounted for vertical movement toward and away from the respective carrier platen, pneumatic power means arranged to raise and lower each of said clamping platens and to apply downward pressure thereto when in lowered position, horizontally acting pneumatic clamp means disposed between said carrier platens and arranged to act alternately between coacting carrier and clamping platens, means to rotate said table intermittently in one-half revo-



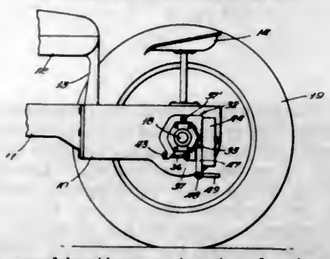
lution increments of angular movement, control means arranged to actuate said power means to lower one clamping platen and raise the other clamping platen and to actuate the clamp means toward the lowered platen, and means arranged to automatically retard the operation of the clamp means and the raising action of said other platen until the first platen has reached its lowered position.

2,593,692

IMPLEMENT ATTACHING STRUCTURE FOR TRACTORS

John R. Orelind, Wilmette, Ill., assignor to International Harvester Company, a corporation of New Jersey

Application December 9, 1947, Serial No. 790,661
2 Claims. (Cl. 280—33.44)



1. In combination, a tractor having an axle, a housing hexagonal in section surrounding said axle, implement attaching means adapted to be secured to said housing and held against relative angular movement including an implement support angularly shaped to conform to the angle made by adjacent faces of said hexagonal housing, clamping elements shaped to conform to the angles made by the other faces of said housing and being pivotally connected to said support, and means for releasably securing said implement attaching means to said housing against angular movement with respect thereto.

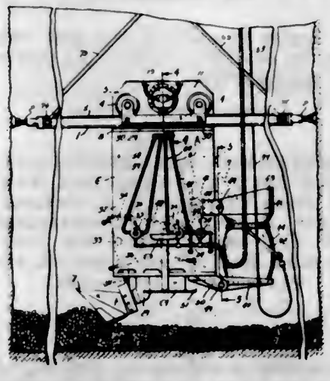
2,593,693

MINE SHAFT MUCKING APPARATUS

Charles F. Osgood, Franklin, Pa., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application February 18, 1946, Serial No. 648,383
12 Claims. (Cl. 214—134)

1. In a mine shaft mucking apparatus, the combination comprising a horizontal upper guide frame adapted to be positioned in a vertical mine shaft in engagement with the shaft walls near to but spaced vertically from the shaft bottom above the pile of material to be loaded, a trolley movable horizontally along said guide frame, a support suspended from said trolley beneath said guide frame, a shovel mechanism carried by said support and disposable near the shaft bottom and including a shovel having a closed bottom, closed sides and a rear wall and provided with a digging lip at the bottom of its open side, means for pivotally supporting said shovel on said support for swinging movement in vertical planes through an arcuate path struck from a low point on said support from its lowered digging position at the forward side of said support upwardly and rearwardly in an arcuate path beneath said trolley and guide to an inverted raised dumping po-



sition at the rear side of said support for discharging its contents rearwardly through its open side, said shovel when in its lowered digging position being located below the forward portion of said support with the shovel bottom inclined forwardly and downwardly away from the support bottom, power operated means for swinging said shovel supporting means in a vertical plane relative to said support to move said shovel as aforesaid, and power operated means on said trolley for moving said trolley and said support horizontally along said guide frame at a relatively slow digging speed to effect rectilinear penetrating movement of the inclined digging lip of said shovel into the pile of material on the shaft bottom when said shovel is in its lowered digging position and while said guide frame is maintained in firm engagement with the shaft walls.

12. In a shoveling apparatus for the purpose specified, a horizontal track arranged transversely in an upright mine shaft in engagement with the shaft walls, a trolley movable along said horizontal track during the shoveling operation, a support swivelly suspended from said trolley beneath the track, a shovel carried by said swiveled support and disposable in a lowered digging position at one end of said swiveled support beneath the bottom of the latter and movable bodily in longitudinal planes rearwardly beneath said trolley into a raised inverted dumping position at the opposite end of said swiveled support, means on said swiveled support at said opposite end for supporting a receptacle whereby the weight of the latter tends to counterbalance the thrust loads on said shovel during the digging operation, and a hopper mounted on said swiveled support at said opposite end for movement between its raised inoperative position and its lowered operative position with respect to said swiveled support, and said hopper when in its latter position being disposed above the receptacle for receiving the material discharged from the shovel and for directing the material into the receptacle.

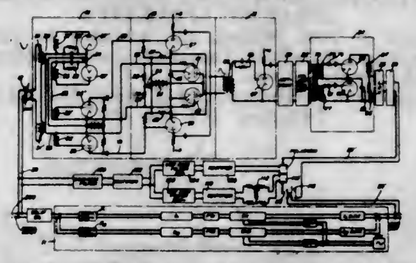
2,593,694

WAVE ANALYZER FOR DETERMINING FUNDAMENTAL FREQUENCY OF A COMPLEX WAVE

Eugene Peterson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 26, 1948, Serial No. 17,284
4 Claims. (Cl. 175—183)

2. In a system for determining the frequency of the fundamental component of a complex wave having periodic characteristics and which includes a plurality of wave components of frequencies that are in integral harmonic relation to the frequency of the fundamental component, the combination which comprises means for dividing said complex wave into two portions having oppositely related instantaneous characteristics, amplifying means for increasing the magnitude of the combined wave components of each portion in accordance with the magnitude of the combined components of the other of said two portions, amplitude sensitive means responsive to said derived wave portions for segregating the wave portion which contains the increased components of greatest magnitude, means for transmitting only the maximum component peak in



each cycle of said segregated portion, and frequency sensitive means responsive to said transmitted peaks for producing a periodic quantity having an average value of zero over a period equal to the interval between successive ones of said transmitted peaks, said period and said interval each being equal to the reciprocal of the frequency of said fundamental component.

2,593,695

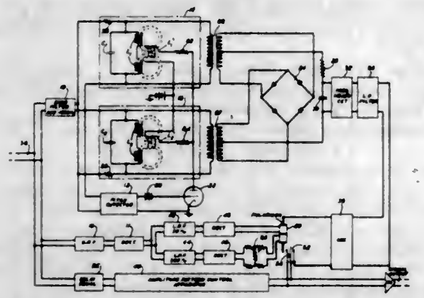
ANALYZER FOR DETERMINING THE FUNDAMENTAL FREQUENCY OF A COMPLEX WAVE

Eugene Peterson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 10, 1948, Serial No. 26,004
15 Claims. (Cl. 175—183)

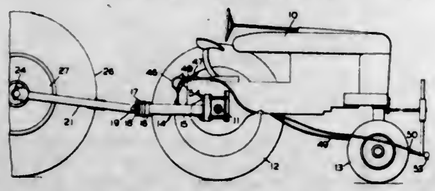
14. In a combination for producing an indication of the instantaneous frequency of the fundamental component of a variable frequency complex wave which wave includes a number of integrally related harmonic frequency wave components, means for deriving from said wave an electromotive force the magnitude of which is approximately indicative of the frequency separation between adjacent harmonic wave components, a pair of selective electrical networks each of said networks comprising parallel capacitive and inductive reactive elements, each of said inductive elements having a control element inter-

connected therewith and with said electromotive force deriving means for regulating the effective value of said inductive element in accordance with the magnitude of said derived electromotive force, said networks being selective of a pair of adjacently related harmonic wave components of



said complex wave, and means for combining the selected wave components to derive from such combination an indication of the frequency difference between said components, such frequency difference being representative of the instantaneous frequency of the fundamental component of the complex wave.

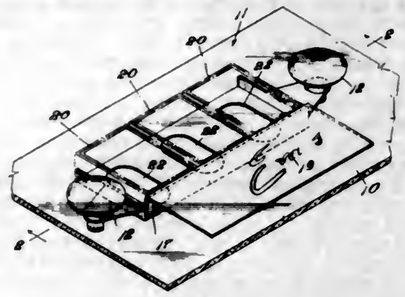
2,593,696
TRACTOR PROPELLED AGRICULTURAL SPRAYING APPARATUS
Stuart D. Pool, Moline, Ill., assignor to International Harvester Company, a corporation of New Jersey
Application December 6, 1949, Serial No. 131,352
7 Claims. (Cl. 299—29)



1. In spraying apparatus for the control of weeds, insects and the like, a tractive vehicle, spray nozzles mounted on the vehicle, a wheel having a hub portion, a fluid container in the form of a tire casing about the periphery of the hub, means accommodating lateral and vertical floating movement of the wheel with respect to the vehicle and the spray nozzles for connecting the wheel thereto, conduits providing communication between the interior and exterior of the tire casing for discharging the treating fluid therefrom, a connection between said conduits and the nozzles, and pumping means in said connection for withdrawing fluid from said container and directing it to the nozzles.

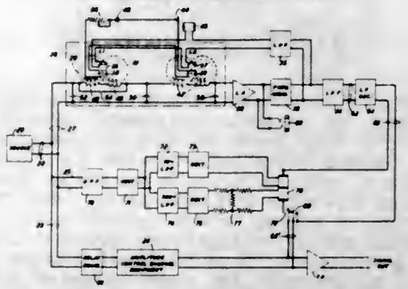
2,593,697
COUNTER DISPLAY DEVICE
Alfred F. Reilly, North Attleboro, Mass.
Application November 16, 1949, Serial No. 127,630
4 Claims. (Cl. 211—86)

1. A display device for mounting beneath a glass top counter comprising a supporting shelf of integral construction having a bottom wall, an end wall extending upwardly at right angles to the bottom wall, side walls extending upwardly from the opposite edges of the bottom wall and at right angles thereto and to the end wall and of a height less than the end wall and a bracket extending therefrom away from the bottom wall



at right angles to each of the side walls, and means on the bracket to attach the device to the bottom of the glass top.

2,593,698
APPARATUS FOR DETERMINING PITCH FREQUENCY IN A COMPLEX WAVE
Robert R. Riesz, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 10, 1948, Serial No. 26,026
14 Claims. (Cl. 175—183)

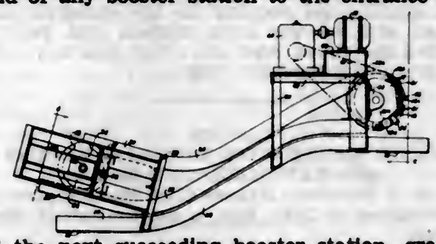


12. In combination, a source of variable frequency complex waves including a fundamental component, an electrical network connected thereto and comprising inductive and capacitive reactive elements initially adjusted to transmit the lower frequency portion of the frequency spectrum of said waves, means for deriving from such portion of said waves a variable electromotive force representative of the fundamental component of said wave and the amplitude of which changes in accordance with changes in the frequency of the fundamental component of said complex waves, and control means responsive to said derived electromotive force for variably adjusting the reactive value of at least one of said network elements such that the network transmits frequencies at least including such fundamental frequency exclusive of the harmonics thereof.

2,593,699
BOOSTER CONVEYER FOR GRAVITY CONVEYER SYSTEMS
Andrew G. Rose, Detroit, Mich., assignor to Jervis B. Webb Company, Detroit, Mich., a corporation of Michigan
Application April 20, 1946, Serial No. 663,708
6 Claims. (Cl. 104—94)

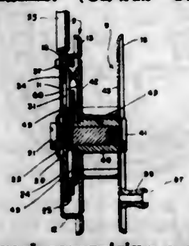
1. A trolley conveyor system characterized by an endless trolley track, a plurality of power

driven trolley boosters along said track, said track being inclined downwardly from the exit end of any booster station to the entrance end



of the next succeeding booster station, gravity providing the sole trolley propelling force between said booster stations.

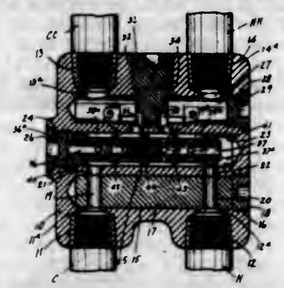
2,593,700
FISHING REEL
Ernest Rosner, Chicago, Ill.
Application September 27, 1946, Serial No. 699,692
7 Claims. (Cl. 242—84.5)



1. A fishing reel comprising a rotatable spool, a pawl and ratchet mechanism for actuating the spool, said mechanism including a ratchet mounted for rotation about an axis coincident with the axis of rotation of the spool and rotatable with respect to the spool, a spring disc between the ratchet and the spool for causing the ratchet to exert a friction drag on the spool, said spring disc having a plurality of spring fingers extending out of the plane of the disc, an adjustable cam disc backing the spring disc and having camming surfaces cooperating with the spring fingers to control the forces exerted thereby, said two discs being angularly adjustable to vary the forces exerted by the spring fingers, and means for locking the two discs against relative movement with respect to one another out of their adjusted positions.

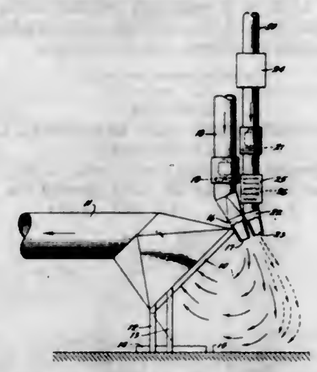
2,593,701
ANTISCALD AND PROPORTIONING VALVE
Paul W. Sanford, Indianapolis, Ind., assignor of one-half to Body Guard-Valve Co., Inc., and one-half to Shepherd Machine & Tool Co., Inc., Indianapolis, Ind., both corporations
Application October 25, 1948, Serial No. 56,403
5 Claims. (Cl. 277—55)

1. A valve unit comprising a valve body having a discharge bore, an intermediate bore and an intake bore, the axes of said bores being parallel; said discharge bore having spaced apart ports connecting with said intermediate bore and having discharge ports; said intake bore having intake ports and discharge ports communicating with said intermediate bore; a piston-like control valve slideably mounted in said intermediate bore having an axial central bore divided by an intermediate wall to provide two separate passages each open at one end, each of said passages having an intake port adapted for communication with an intake port of said intermediate bore, and an outlet port adapted for communication with a discharge port of said intermediate bore and valve lands at the opposite ends of said con-



trol valve for controlling the discharge through the discharge ports of said intake bore into said intermediate bore.

2,593,702
GASEOUS CURTAIN FOR VENTILATING EXHAUST
Claude B. Schneible, Detroit, Mich.
Application April 13, 1948, Serial No. 20,666
4 Claims. (Cl. 98—115)

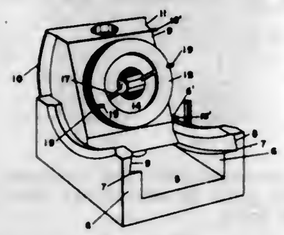


1. In ventilating exhaust apparatus for the treating of a rising column of gas, a hood having an inlet opening, supporting means for said hood and supporting the inlet portion of said hood at an inclination with respect to said rising column of gas whereby the lower portion of said hood is at one side of said column and the upper portion of said hood extends into said column, a suction pipe communicating with said hood, and a pair of pipes provided with elongated parallel discharge openings supported adjacent the upper forward edge portion of said hood, said outlets being directed outwardly and downwardly across said rising column of gas, and means for discharging air through said outlet openings to form parallel curtains of air across said rising column and on the outer side thereof opposite said hood.

2,593,703
WATCHMAKER'S VISE
Arthur Brock Sinkler, Lancaster, Pa., assignor to Hamilton Watch Company, Lancaster, Pa.
Application June 14, 1948, Serial No. 32,743
2 Claims. (Cl. 81—6)

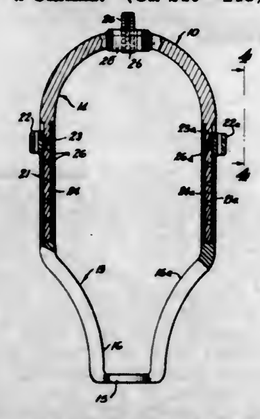
1. A universal positioning fixture for a watch movement assembly, comprising a base formed with upstanding substantially spaced sides having parallel inwardly facing arcuate grooves therein, a cradle formed with a rocker base slid-

ably mounted for manual rocking movement on said base, in said grooves and being substantially housed between the upstanding sides of said base, a ring rotatively carried by said cradle and formed with a pair of upstanding pins for supporting a watch movement, said ring being in a plane parallel to the face of said cradle, a second ring concentric with and fitting within said first mentioned ring, a resilient washer underlying said



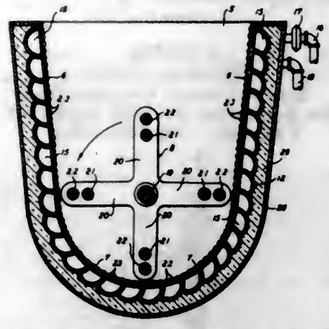
second ring and bearing against said first mentioned ring adapted to be compressed by said second ring to lock said first mentioned ring in any desired angular position relative to said cradle, means carried by said base and said cradle limiting the rocking movement of said cradle to a position where the movement ring is parallel to said base and to a position substantially at 90° thereto, and means for locking said cradle in any position between these two extremes.

2,593,704
ADJUSTABLE HARP FOR ELECTRIC LIGHT LAMP SHADES
Joseph Smurik, New York, N. Y.
Application September 30, 1949, Serial No. 118,930
2 Claims. (Cl. 240—148)



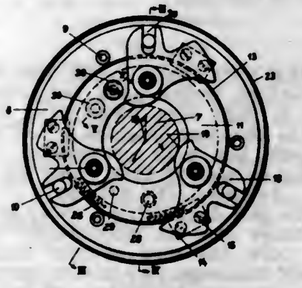
1. A harp support for the shade of an electric light lamp in combination with the lamp socket, the harp comprising a lower section of resilient material having a central socket engaging portion, at least one arm upwardly directed from the socket engaging portion, the arm having formed therein a longitudinal opening extending from the top downwardly, the rim of the opening being longitudinally slit along two spaced lines and a third line adjacent the top inter-connected with the two spaced lines to form a hinged tongue over a part of the opening, the tongue having formed thereon at least one inwardly directed protuberance and an outwardly directed finger piece; the harp further comprising an upper section coacting with the lower section, the upper section having a platform at the top and at least one arm disposed on the platform and downwardly directed therefrom, the downwardly directed arm being slidably inserted in the longitudinal opening in the upwardly directed arm of the lower section and having formed therein at least one notch coacting with the protuberance on the tongue.

2,593,705
DOUGH MIXER WITH DOUGH GRIPPING AND REFRIGERATED WALL
Merlin A. Stickelber, Kansas City, Mo., assignor to Stickelber & Sons, Inc., a corporation of Missouri
Application June 21, 1948, Serial No. 34,294
3 Claims. (Cl. 62—1)



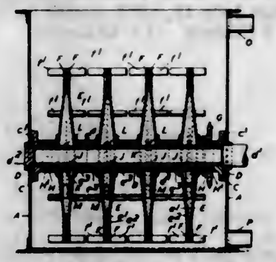
1. In a dough mixer, a mixing chamber having a wall, means in said chamber for repeatedly contacting a mass of dough with said wall, means secured to the outer face of said wall to form refrigerant conduits therewith, said wall having a dough contacting face having a plurality of short ribs projecting therefrom, said ribs being arranged in sets extending angularly to each other.

2,593,706
CLAMPING DEVICE FOR MACHINE TOOLS
Ottomar von Zelewsky, Neuhausen on the Rheinfall, Switzerland, assignor to Georg Fischer Aktiengesellschaft, Schaffhausen, Switzerland, a company of Switzerland
Application April 18, 1950, Serial No. 156,540
In Switzerland January 18, 1950
1 Claim. (Cl. 279—35)



A clamping device for machine tools, said device comprising in combination with a spindle; a flange ring connected to said spindle, at least two bolts carried by said flange ring, a supporting ring within said flange ring, means for radially shifting the supporting ring relative to the flange ring, at least two work holders pivotally mounted upon said supporting ring, each of said work holders engaging a separate bolt, the mass of each of said work holders being so disposed in relation to its pivot as to press the holder inwardly during rotation, two springs located in recesses formed in said flange ring and supporting ring, each of said springs having one end connected to said flange ring and another end connected to said supporting ring to turn said supporting ring in a direction in which said work holders are pressed inwardly, a lock pin carried by said flange ring, and a resilient bolt carried by said supporting ring and engaging said lock pin to hold said supporting ring in the open position of said holders.

2,593,707
FILTER
Thomas Bradley Walker, Kendal, England, assignor to Isaac Braithwaite & Son Engineers Limited, Kendal, England, a corporation of Great Britain
Application July 22, 1949, Serial No. 106,160
In Great Britain August 3, 1948
2 Claims. (Cl. 210—200)



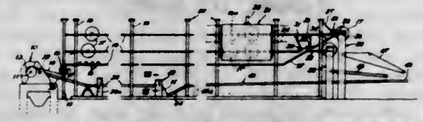
1. A filtering apparatus, comprising in combination, a tank for receiving a liquid to be filtered and a filtering aid; a stationary hollow shaft mounted in said tank; at least one hollow filter means rotatably mounted on said shaft immersed in said liquid and formed with an annular inner chamber, said filter means including a pair of perforate filter discs spaced apart and forming side walls of said annular chamber, said annular chamber communicating with the interior of said hollow shaft; agitating members secured to said filter means for rotation therewith and projecting therefrom into said liquid; means for rotating said filter means; and means for reducing the pressure in the interior of said hollow shaft so that reduced pressure in said hollow shaft and in said annular chamber first causes said filtering aid contained in said liquid agitated by said agitating members to uniformly adhere to said perforate discs, and then causes said liquid to be drawn through said adherent filtering aid into said chambers so as to be filtered.

2,593,708
METHOD FOR PRODUCING PAPER-COVERED WOOD VENEER
Richard N. Ware, Jr., and Reginald Cannon, Tallulah, La., assignors to Chicago Mill and Lumber Company, Chicago, Ill., a corporation of Delaware
Application November 13, 1948, Serial No. 59,932
1 Claim. (Cl. 154—124)



The method of forming paper covered veneer sheets from green undried wood, which comprises, forming a flat ribbon of green undried wood veneer, passing the flat green undried wood veneer ribbon between heaters to heat the wood, spraying hot steam on both broad faces of the ribbon as it passes between said heaters, holding the ribbon against warping as it is heated and sprayed, continuing said heating and spraying to produce a flat ribbon of veneer having a temperature between 160 and 250° F. and a moisture content about 30%, unreeling a first roll of paper above said ribbon, unreeling a second roll of paper beneath said ribbon, wetting one face of each of said webs of paper, adhesive-coating the other face of each of said webs of paper, stretching the wet paper, depositing the adhesived faces of the stretched wet paper on the heated wet veneer ribbon, pulling the paper covered assembly through a heating chamber, successively pressing the assembly in said chamber, heating the assembly in said chamber to temperatures beneath the boiling point of water to partially set the adhesive to form a firm bond between the wood and paper capable of holding the wood and paper against relative slippage, and thereafter drying the assembly at a higher temperature to a moisture content of between 6 to 12% while said paper and the adhesive bond hold the wood against shrinkage.

2,593,709
VENEER HANDLING APPARATUS
Richard N. Ware, Jr., and Reginald Cannon, Tallulah, La., assignors to Chicago Mill and Lumber Company, Chicago, Ill., a corporation of Delaware
Original application July 16, 1947, Serial No. 761,188. Divided and this application December 4, 1948, Serial No. 63,564
1 Claim. (Cl. 242—55)

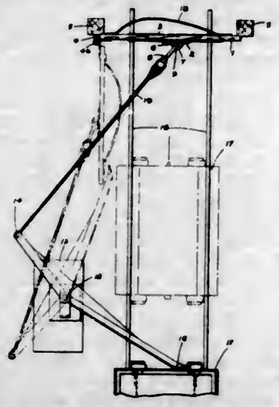


Veneer handling apparatus comprising an elongated rack having superimposed tracks including roll conveying tracks and empty winder shaft conveying tracks, movable track sections accommodating passage of rolls in one direction, means for swinging said movable tracks to an out of the way position after passage of said rolls for accommodating movement of unwound shafts back to the shaft tracks, and an unreeling stand at the end of the track for receiving wound rolls from one set of tracks and for discharging empty shafts back to the other tracks.

2,593,710
DOOR OPERATOR
Frederick James Warner, Mansfield, England
Application December 18, 1947, Serial No. 792,495
In Great Britain October 16, 1944
Section 1, Public Law 690, August 8, 1946
Patent expires October 16, 1964
6 Claims. (Cl. 268—36)

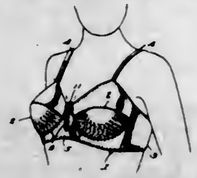
1. A device for automatically opening a door pivotally mounted for movement over a path having a center line which passes beneath a central portion of the door frame in which the door is mounted, comprising, in combination, an elongated lever having one end portion pivotally mounted for movement over the path and located ahead of the door, said one end portion of said lever being movable between a first position when the door is closed and a second position

when the door is fully opened; and link means having one end portion pivotally connected to said lever and another end portion pivotally connected to the door, said other end portion of said link means being movable between a first position



when the door is closed and a second position when the door is fully opened, and said second position of said other end portion of said link means being located at a greater distance from the center line of the path than said second position of said one end portion of said lever.

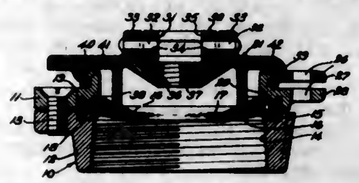
2,593,711
BRASSIÈRE
Andrew E. Weatherly, Madison, N. C., assignor to Gem-Dandy, Inc., Madison, N. C.
Application September 18, 1950, Serial No. 185,427
1 Claim. (Cl. 2—42)



A brassière comprising a body-embracing member, spaced breast receiving pockets carried by said body-embracing member, a panel of flexible material carried by said body-embracing member and extending between said breast receiving pockets, opposite side edges of said panel diverging as they recede from the top thereof and following the contour of the breast receiving pockets to form a pocket between the breast receiving pockets, said panel having a vertically disposed slit therein extending from the top edge thereof to a point above the lowermost portions of the breast receiving pockets, and means carried by and lying between adjacent edges of the slit for closing said slit.

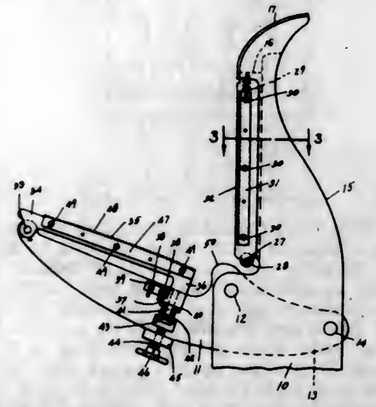
2,593,712
FILLING FITTING
Lloyd K. Wells and Staples X. Willard, Glendora, Calif., assignors to Petroleum Essentials, Inc., Los Angeles, Calif., a corporation of California
Application September 27, 1947, Serial No. 776,608
4 Claims. (Cl. 220—86)

4. A fill cap assembly adapted to receive a removable tubular nozzle, comprising a body including upper and lower sections, a sealing gasket clamped between said sections within the body and having an annular lip adapted to receive the nozzle and to engage the outside thereof in substantially fluid tight relation, a cap carried by the body and having an annular axial flange project-



ing into the body in annularly spaced relation thereto to engage and form a seal with said gasket, a seal ring interengaged by the cap and said upper section of the body in the closed position of the cap and located radially outwardly of said flange.

2,593,713
PLATEN-BED PRESS FOR SIMULATING CYLINDER PRESS PRINTING
Harry B. Willett, Indianapolis, Ind.
Application July 12, 1945, Serial No. 604,567
8 Claims. (Cl. 101—297)



1. In a platen-bed press, the combination of two frames mounted for relative movement towards and away from each other, a printing couple comprising a platen member and a bed member respectively supported by said frames, the operative face of one of said members being convexly curved on an arc of comparatively large radius about an axis transverse to the direction of such relative movement between said frames, means pivotally mounting one end of one member of said printing couple on its supporting frame for oscillation about a fixed axis on said frame lying parallel with such first named axis, and retractible means normally positioning the free end of said oscillatory member to have initial contact with its cooperating member when said frames are brought together, such contact thereupon progressively continuing towards the pivoted end of said oscillatory member.

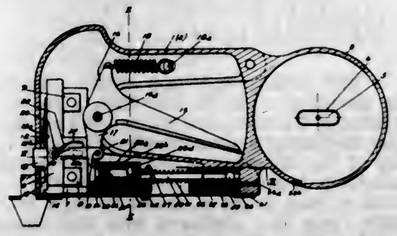
2,593,714
METHOD OF MAKING CELLULAR STRUCTURES
Roy H. Robinson, Chicago, Ill.
Application June 30, 1943, Serial No. 492,914
10 Claims. (Cl. 154—83)

1. The method of forming a hardened cellular structural unit including assembling pliable-walled tubular elements, in association with adhesive, in juxtaposition within confining and shaping elements, applying fluid pressure within the tubular elements, changing the shape of the



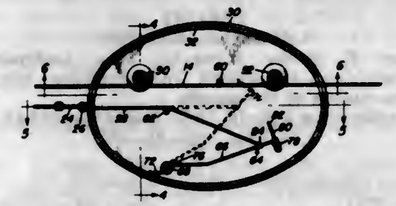
tubular elements, conforming same to each other and to the confining and shaping elements and integrating and indurating the tubular elements.

2,593,715
FEEDING AND CUTTING MEANS FOR FORMING FASTENERS
André Adler and Robert Adler, Paris, France
Application September 22, 1947, Serial No. 775,550
In France November 7, 1946
3 Claims. (Cl. 164—48)



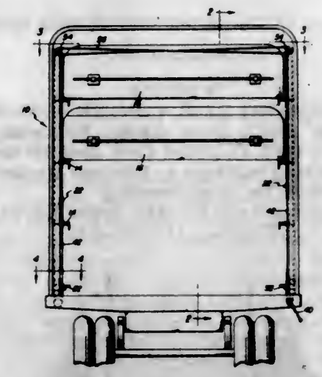
1. In an apparatus for cutting individual fasteners from a metallic strip and setting them as cut, the combination of a shears comprising a fixed blade having a rectilinear edge and a movable blade cooperating with said fixed blade, a casing, a hand lever pivoted to said casing, and forming an arm with a first pin therethrough, an angular slot having an upwardly inclined portion followed by a longitudinally extending portion in said movable blade, a second pin through said angular slot, longitudinal slides in said casing for the ends of said second pin, and links connecting the first and second pins on each side of said movable blade.

2,593,716
FISHING DEVICE
Richard E. Allen, South Orange, N. J., assignor of one-half to John H. Bolen, Jr., Orange, N. J.
Application November 7, 1950, Serial No. 194,464
2 Claims. (Cl. 43—17.2)



1. A fishing device for cutting snagged fishing lines comprising a hollow casing having aligned openings in the end thereof through which the fishing line extends, rollers disposed in said casing for movably supporting the casing on the fishing line that has been snagged, a cutter blade means pivotably mounted within said casing, resilient means for urging the blade means to a first position, an actuating means for pivoting said blade to a second line cutting position when the device is adjacent the snagged end, said casing being provided with an aperture disposed adjacent to one of said openings, said actuating means including a line extending through said aperture, and a pin mounted in said casing, said actuating line passing over said pin and having its end secured to said cutter blade means for pivoting the same.

2,593,717
CASKET CARRYING TRUCK
William E. Barrott, Jr., and William E. Barrott, Sr., Aurora, Ind.
Application March 27, 1950, Serial No. 152,084
5 Claims. (Cl. 214—75)



1. A truck body and hoist construction comprising a truck body, a series of vertically spaced horizontal rack rails mounted on said body, said body having an opening, said rails terminating in spaced relation to said opening, a hoist mounted in said body between said rails and said opening, said hoist including vertically disposed elevators on opposite sides of said openings, horizontal rails on said elevators selectively registrable with said rack rails, means interconnecting said elevators for synchronized movement, operating means for said elevator, each elevator including a pair of vertical channel members secured to said truck body, slides movable vertically in each channel member, said elevator rails being mounted on said slides, means for vertically moving said slides.

2,593,718
APPARATUS FOR RECOVERY OF FINELY DIVIDED PARTICLES
Jon Beam, Blue Ridge, Ga., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application October 1, 1949, Serial No. 119,027
6 Claims. (Cl. 183—83)

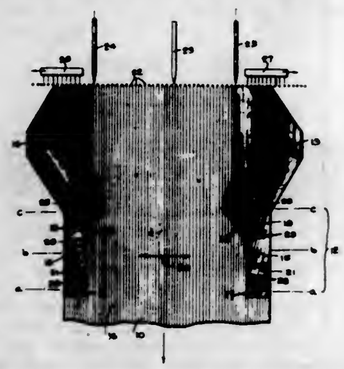
1. In a centrifugal type of particle separator having a cylindrical chamber, a lower particle collecting section and a particle outlet therefrom, tangential inlet means to said chamber for a particle laden stream, and an open-ended outlet conduit extending upwardly from the interior of the lower portion of said cylindrical chamber suitable for discharging a relatively clean gaseous stream therefrom, the improvement which comprises, a scrubbing fluid conduit and inlet orifice means connected to said cleaned stream outlet conduit exteriorally of said chamber, with said orifice arranged to pass a fluid stream transversely across the full cross sectional area of said

outlet conduit, and conduit means extending from said cleaned gas outlet conduit and opposite



said orifice to the upper end of said cylindrical chamber.

2,593,719
STOCKING HEEL CONSTRUCTION
Charles B. Biehl, West Grove, Pa., assignor to David D. Goff, C. David Goff, and Alexander N. Rubin, doing business as Duchess Hosiery Mills, West Grove, Pa., a partnership
Application April 27, 1949, Serial No. 89,825
3 Claims. (Cl. 66—182)

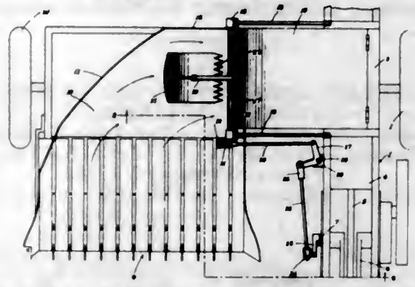


1. A full fashioned stocking having leg, ankle, heel and foot portions, a rear seam, and reinforced high splice sections on each side of the rear seam at the rear of the ankle portion and immediately above the heel portion, each of said high splice sections having a line of widening openings spaced from the rear seam and paralleling the inner boundary of said reinforced section, said lines of openings extending in part at least at an angle to the wales of the fabric, the wales of the fabric between said lines of openings and said rear seam extending at an angle to that portion of the seam which joins said high splice sections together.

2,593,720
SUPPORTED PHOSPHORIC ACID CATALYST CONTAINING A PITCH RESIN BINDER AND ITS PREPARATION
Mitchell S. Bielawski, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 18, 1948, Serial No. 60,235
11 Claims. (Cl. 252—428)

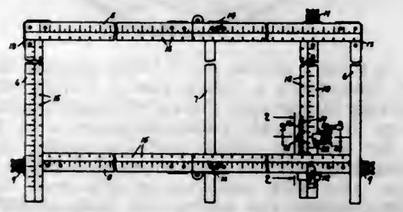
10. A solid catalyst comprising a calcined mixture of from about 50 to about 75% by weight of a phosphoric acid, from about 20 to about 49.5% by weight of a siliceous adsorbent, and from about 0.5 to about 5% by weight of a pine wood pitch resin substantially insoluble in paraffinic hydrocarbons.

2,593,721
FEEDER FOR HAY BALING MACHINES
Felix Bolton, Sr., Chowchilla, Calif., assignor of one-half to Claud Clayton, Chowchilla, Calif.
Application March 26, 1948, Serial No. 17,247
1 Claim. (Cl. 100—25)



In a hay baling machine which includes a baling chamber open on one side, a reciprocating plunger therein, operating means for the plunger including a crankshaft extending transversely of the chamber, a feed platform extending laterally from said open side of the chamber, and a feed drum disposed to feed material laterally from the platform into the chamber; an auxiliary hay feed attachment comprising a fork extending lengthwise of the drum and having a top arm adapted to project laterally of the machine in the direction of the chamber, a shaft journaled on the machine above and parallel to the axis of the drum and on which the arm is fixed, and means to oscillate said shaft and fork through a stroke of predetermined length and in predetermined timed relation to the operation of the plunger, said means comprising a radial lever on the shaft at the end thereof nearest the crankshaft, a relatively short-stroke crank secured on the end of the crankshaft which extends on the same side as said platform, a vertical-axis bellcrank mounted on the machine intermediate said short crank and the radial lever, a rod extending between and having swivel connection with one leg of the bellcrank and said short crank, and another rod extending between and having swivel connection with the other leg of the bellcrank and said radial lever.

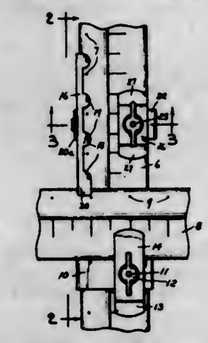
2,593,722
LEVELING BRIDGE
Werner H. Bothe, Kenosha, Wis., assignor to Worldsbest Industries, Inc., Cudahy, Wis., a corporation of Wisconsin
Application July 10, 1950, Serial No. 172,954
5 Claims. (Cl. 45—24)



1. In a stretching frame having angularly disposed and joined pin carrying frame members

with one of said frame members overlying the other frame member, the combination of a support, means for clamping said support to one of said frame members, and a levelling bridge pivotally mounted on a horizontal axis on said support at one side thereof and provided with pins alining with the pinning of one of said frame members and simultaneously active therewith and forming an inclined pinning path between the pinning of said members.

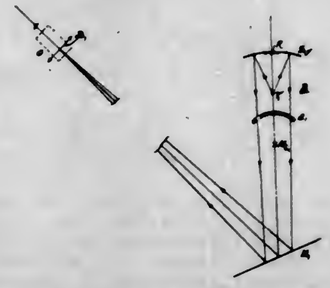
2,593,723
LEVELING BRIDGE
Werner H. Bothe, Kenosha, and Herman J. Miller, Cudahy, Wis., assignors to Worldsbest Industries, Inc., Cudahy, Wis., a corporation of Wisconsin
Application February 28, 1951, Serial No. 213,074
2 Claims. (Cl. 45—24)



1. In a stretching frame having angularly disposed and joined pin carrying frame members with one of said frame members overlying the other frame member, the combination of a channel supporting member extending around the bottom and sides of the underlying frame member, a pin carrying levelling bridge carried on one side of the leg of said channel member disposed adjacent the front side of said underlying frame member, the other leg of said channel member having an angled extension overlying the front face of said underlying frame member, a clamping member distinct from said bridge and engageable with the front face of said underlying frame member adjacent said extension, and means connected with said angled extension for drawing said clamping member and the bridge portion of said channel member into clamping engagement with said underlying frame member to clamp said levelling bridge in position at the joint between said members to provide an inclined pinning path between pins of said frame members.

2,593,724
MICROSCOPE WITH REFLECTING OBJECTIVE
Albert Bouwers, Delft, Netherlands, assignor to N. V. Optische Industrie "De Oude Delft," Delft, Netherlands
Application December 19, 1945, Serial No. 635,985
In the Netherlands July 14, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires July 14, 1961
22 Claims. (Cl. 88—39)

3. A microscope for viewing an object, comprising an objective, an optical element having a plane reflecting surface and an ocular, said objective comprising a concave spherical first surface mirror and a refractive spherical-aberration correcting element spaced therefrom and substantially correcting by refraction the spherical aberration of said mirror, said correcting element comprising a meniscus lens having only substantially spherical refractive surfaces, said correcting element being concave towards the center of curvature of said spherical mirror, said objective and said ocular having optical axes which intersect each other in a point



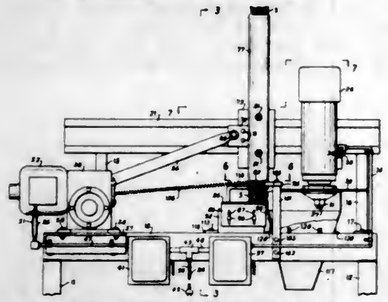
on said plane reflecting surface, said plane reflecting surface being positioned to redirect light rays to said ocular for convenient viewing, the object plane being positioned near the focal point of said objective, the effective light rays emanating from the object being successively, along the optical axis of said microscope, reflected at said mirror, refracted by said correcting element and reflected at said plane reflecting surface towards the focal point of said ocular.

2,593,725
CASING REPAIRING DEVICE
Cicero C. Brown, Houston, Tex.
Application April 22, 1946, Serial No. 664,031
13 Claims. (Cl. 166—4)



1. A tool for repairing damaged well casing by extending the portion of a cut casing which remains within a well bore comprising a tool housing adapted to be lowered around the well casing, means slidably mounted within the housing for securing the tool to the casing, rib means disposed between the securing means and the housing for centering the securing means relative to the housing and casing and providing unrestricted flow passages externally of the securing means.

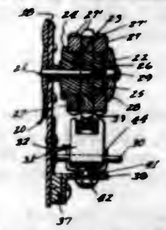
2,593,726
APPARATUS FOR CUTTING BLOCKS
William E. Burge, Winston-Salem, N. C.
Application September 20, 1948, Serial No. 50,069
3 Claims. (Cl. 143—54)



1. A machine for automatically and simultaneously cutting a plurality of strips of material such as wood, plastic and the like into blocks of identical length comprising a framework having a bed plate and a horizontally disposed guide member disposed above the bed plate in spaced relation thereto, a vertically disposed elongated tubular member mounted for horizontal and reciprocating sliding movement on the guide member, the lower end of said tubular member terminating a substantial distance above the bed plate, a vertically adjustably horizontally disposed plate mounted on the bed plate and disposed below and in spaced relation to the path of travel of the lower end of the tubular member, said tubular member having a notch cut in the periphery thereof adjacent the lower end thereof, said horizontally disposed plate being adapted to support the lower ends of the strips of material as they are placed in the tubular member, a horizontally disposed circular saw disposed adjacent and above the vertically adjustable horizontally disposed plate, means for transmitting horizontal reciprocatory motion to the vertically disposed tubular member for moving the strips of material into engagement with the saw, the horizontal plane of said saw being disposed a slight distance below the path of travel of the lower end of the tubular member, a horizontally disposed lever bar pivoted at one end on the framework and extending across the path of travel of the tubular member, spring means for urging the lever bar into the notch in the tubular member as it moves toward the saw to thereby engage the strips of material therein to clamp them against the opposite wall of the tubular member, a stop on the opposite side of the framework from said pivot for limiting movement of the lever to cause it to be disengaged from the strips of material when the tubular member has moved from over the saw and a funnel shaped member disposed below the cutting blade for directing the blocks cut from the strips by the cutting blade into a suitable container or trough or the like.

2,593,727
ELECTRIC CIRCUIT TIMING SWITCH
Clarence J. Cadwell, Carpinteria, and Frank M. Adamson, Los Angeles, Calif., assignors to The Cadwell Corporation, Beverly Hills, Calif., a corporation of California
Application December 17, 1948, Serial No. 65,896
2 Claims. (Cl. 200—38)

1. In an electric circuit timing switch, a substantially rectangular body of an insulating material having a channel in its upper side, a pair of opposed contact elements fixedly mounted in the side walls of said channel toward an end thereof, a tongue of spring metal within said channel and having one end secured toward the opposite end of the channel and its other end upwardly curved and overlying said contact elements, a shaft extending transversely of and above said body, rotary elements mounted on said shaft and having their peripheries each provided with



a series of spurs, and means for shifting said body relatively to said rotary elements to selectively position said tongue in the paths of movement of the spurs, whereby the curved end of the tongue will be depressed into bridging relation with respect to said contact elements, the spurs on each of said rotary elements being differently spaced to vary the timing operation of the spring tongue.

2,593,728
CASTING BOBBER
Charles R. Carpenter, Robbinsdale, Minn.
Application December 18, 1947, Serial No. 792,401
5 Claims. (Cl. 43—44.91)

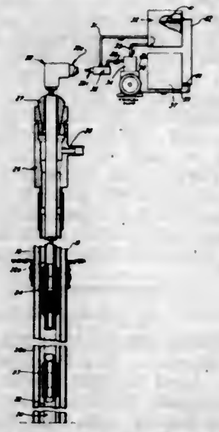


3. A casting bobber comprising an elongated hollow body having a main slot extending from end to end thereof and to a depth of at least one-half the diameter of said body, said main slot being adapted to have a fishing line threaded therethrough, said body having a terminal slot at each end thereof disposed at substantially right angles to the main slot, and a wire element constituting a resilient finger disposed in each terminal slot, each resilient finger having one end anchored to the bottom wall of its respective terminal slot adjacent to one end thereof, and the opposite ends of said resilient fingers being received in the opposite ends of said terminal slots and engaging raised bead-like portions provided in the bottoms of said terminal slots, said raised portions being located inwardly of the ends of said resilient fingers, thereby to facilitate threading a fishing line around the ends of the resilient fingers into or out of the main slot in said body.

2,593,729
CLOSED SYSTEM HYDRAULIC PUMP
Clarence J. Coberly, Los Angeles, Calif., assignor, by mesne assignments, to Dresser Equipment Company, Cleveland, Ohio, a corporation of Ohio
Application July 1, 1946, Serial No. 680,679
8 Claims. (Cl. 103—46)

1. In a fluid operated pump system, the combination of: a fluid operated pump in a well and

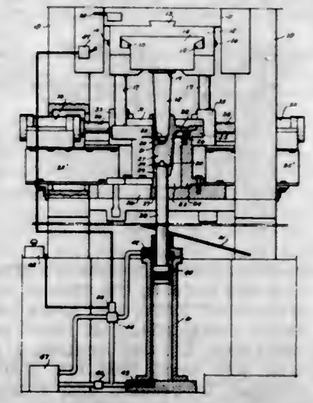
having an inlet for operating fluid under pressure and an outlet for spent operating fluid, said pump being adapted to be actuated by the delivery thereto of operating fluid under pressure; a production tubing extending downwardly in said well so as to receive pumped well fluid from said pump and to convey it upwardly; a power tubing extending downwardly through said production tubing and connected to said pump, said power tubing including an inner tubing member and an outer tubing member radially spaced from said inner tubing member, one of said tubing members communicating with said inlet and being adapted to convey said operating fluid under pressure downwardly to said pump, and



the other of said tubing members communicating with said outlet and being adapted to convey spent operating fluid upwardly from said pump, said power tubing comprising a plurality of axially aligned sections each of which includes a section of the inner tubing member and a section of the outer tubing member rigidly connected together in radially spaced relation; power pumping means connected to said one of said tubing members for supplying said operating fluid under pressure unidirectionally to said one of said tubing members only; reservoir means connected to said other of said tubing members for receiving spent operating fluid therefrom; and fluid-conducting means connecting said power pumping means to said reservoir means.

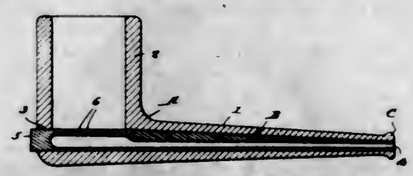
2,593,730
APPARATUS FOR MAKING PIERCED FORGED HUBS AND THE LIKE
Dana R. Cornell, East Chicago, Ind., assignor to Standard Forging Corporation, Chicago, Ill., a corporation of Delaware
Application May 6, 1946, Serial No. 667,678
2 Claims. (Cl. 78—9)

1. In metal working apparatus including a centrally recessed work forming die having a slug ejecting aperture in its base in alignment with said recess and an annular shearing step at the juncture of said recess and aperture, a reciprocating ram and a piercing tool actuated by the ram, said piercing tool having a leading shearing end adapted to cooperate with said shearing step to sever the slug remaining from the piercing operation, cushioning means opposed to the piercing tool and initially extending through said aperture and into said die recess for yieldingly engaging the work and retarding axial movement of the metal thereof by the piercing tool whereby said metal is forced in radial directions to fill the die recess while the piercing tool is moving axially through the work and into said aperture, said cushioning means comprising a reciprocating plunger, a piston on the plunger, and means for controlling the plunger, said controlling means comprising a cylinder concentric with the plunger and in which the piston is operably disposed, a fluid supply under pressure, conduits connecting the supply to the cylinder above and below the piston therein, a back pressure valve in the conduit between the supply and the bottom of the cylinder for providing cushioned movement of the plunger with the work during penetration thereof by the piercing tool and upon completion



of the piercing operation adapted to cooperate with the piercing tool to grip the slug as it is sheared from the work, a four way valve in the conduit, manually operable means for actuating the valve to direct fluid to the bottom of the cylinder and raise the plunger to initially move the plunger through said aperture and into said recess in bearing engagement with the work, and a valve actuating solenoid operable by the ram when the ram and piercing tool have reached the end of their downstroke with the end of the piercing tool in said aperture for actuating said four way valve to direct fluid to the top of the cylinder and quickly move the plunger out of the aperture so that the slug may be ejected.

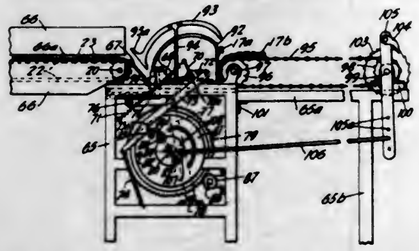
2,593,731
SMOKER'S PIPE
James W. Cryder, Denver, Colo.
Application May 9, 1947, Serial No. 746,984
1 Claim. (Cl. 131—219)



In a smoking pipe, a pipe bowl defining a bowl chamber, a pipe stem having a passageway formed longitudinally through the center thereof, formed integral with the bowl, said bowl having a recess rectangular in transverse cross section formed in the bottom of the bowl below the bottom of the bowl chamber, and providing a continuation of the passageway of the stem, a tubular member rectangular in transverse cross section providing a wide flat upper surface, fitted within the recess of the bowl and in the passage-

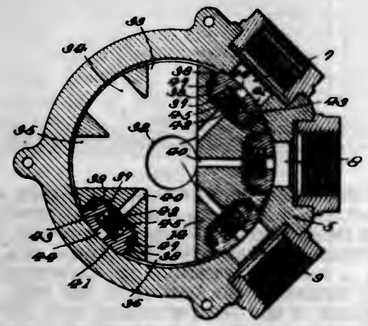
way of the pipe stem, the upper surface of said tubular member within the bowl being flush with the surface defining the bottom of the bowl chamber, the wide flat upper surface of the tubular member having rows of openings therein, through which smoke is drawn into the tubular member from the bowl chamber.

2,593,732
ROD HANDLING DEVICE
Eben D. Dahlman, Grandy, Minn.
Application February 15, 1947, Serial No. 728,839
2 Claims. (Cl. 198—27)



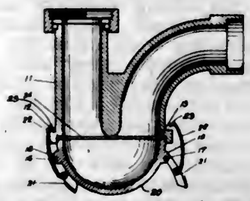
1. In a machine having means for singly feeding, conveying and bending the ends of elongated rods into open ended loops, said loops being disposed in planes substantially at right angles to the axes of said rods, the combination of a guideway to which said bent rods are delivered, a conveyor adapted to receive and support said rods having a top run disposed adjacent to and extending away from said guideway, means for intermittently moving said conveyor to move said run away from said guideway and a swinging arm for moving said bent rods along said guideway and delivering them in position to drop by gravity with the open ends of said loops directed downwardly, said conveyor being so disposed relatively to said guideway and moved a sufficient distance in each step of its movement so that each rod drops directly in one position to bring its ends into connected engagement respectively with the ends of the rod previously dropped onto said conveyor.

2,593,733
VALVE ASSEMBLY
Robert H. Davies, Cleveland, Ohio, assignor to The Parker Appliance Company, Cleveland, Ohio, a corporation of Ohio
Application October 16, 1944, Serial No. 558,784
1 Claim. (Cl. 251—105)



In a valve assembly, a casing, a rotor rotatably mounted in the casing, said casing and said rotor each having an inlet port and said inlet ports being arranged axially for constant registry one with the other, said casing also having three radially opening outlet ports arranged in equidistantly spaced relation 45° apart, and said rotor also having four radially opening outlet ports for communicating with said inlet ports and three of which are arranged in a group in equidistantly spaced arrangement 45° apart and the fourth rotor outlet port is spaced 180° from the next adjacent rotor port in one direction about the periphery of the rotor and 90° from the next adjacent rotor port in the opposite direction about the periphery of the rotor, whereby said ports are effective upon selective rotation of the rotor to enable the registering of said inlet ports with any one, any two, all three, or none of the casing outlet ports, said port registration selections being effective in eight separate and distinct combinations selective by eight distinct position movements of the rotor each a distance of 45° and without duplication of any rotor position in the selection of said eight combinations, and said rotor having a peripheral recess therein at each 45° position not occupied by an outlet port in the plane in which the four outlet ports are located, a port sealing unit in each said recess having a pressure area approximately that of each outlet port, and a pressure duct leading from the rotor inlet port into each said recess.

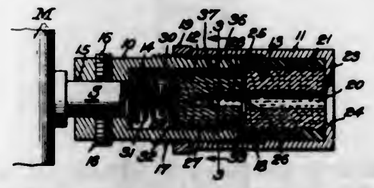
2,593,734
PLUMBING TRAP AND THE LIKE
Lou Davis, Moncton, New Brunswick, Canada
Application April 25, 1947, Serial No. 744,001
In Canada February 18, 1947
1 Claim. (Cl. 182—7)



In a plumbing trap, a curved drain pipe being truncated leaving two disconnected conjugate pipe sections, angularly related and being integrally connected by a thickened wall portion, a circular flange integral with the drain pipe and encompassing the open ends of the pipe sections and a circular lip depending from said circular flange, a gasket seated within said circular flange, the combination of a trap with latching means incorporated therewith whereby it is detachably connectable to the pipe sections, said trap comprising a semi-spherical body portion, lugs integral with the said body portion on opposite sides thereof and extending outward therefrom, the latching means comprising a lever and catch mechanism located on opposite sides of said semi-spherical body portion, the levers being pivotally attached at their upper ends to said lugs to be moved outward and upward therefrom, the said catches being pivotally connected to said levers midway along the same and extending upward therefrom, the said catch comprising an inturned flange at its upper end, the upper edge of said semi-spherical body portion being seated against the said gasket within said circular flange and the latching mechanism being manually operable whereby the said levers upon being moved downward and inward against the said semi-spherical body portion draw said catches downward to position the flanges thereof on top

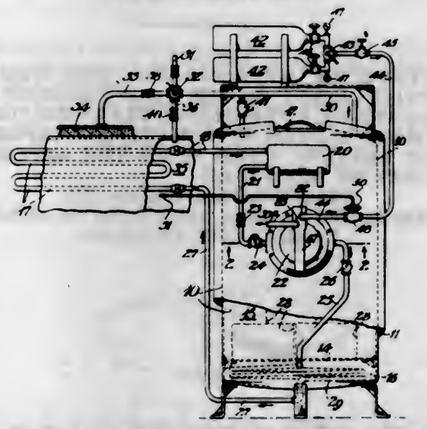
of the said circular flange encompassing the said pipe sections to thus positively secure the trap to the drain pipe, the drawing out and upward of said levers effecting a loosening of said catches from the said circular flange whereby the trap may be removed from the drain pipe.

2,593,735
ELECTRIC SWITCHBOARD PLUG POLISHER
Walter C. Delzell, Yuma, Ariz.
Application November 13, 1950, Serial No. 195,413
7 Claims. (Cl. 51—73)



7. In a switchboard plug polisher, a cup-shaped elastic rubber, compression member to receive a plug-tip polishing felt, said member having a cylindrical outer surface with at least one annular, outwardly projecting rib, the latter being of angular shape in cross-section and having its outer surface inclined inwardly and toward the closed end of the cup-shaped member.

2,593,736
METHOD AND MEANS OF REFRIGERATION
George C. Demetrak, San Francisco, Calif., assignor to Perishables Shipping Equipment Company, a corporation of Nevada
Application May 21, 1948, Serial No. 28,489
1 Claim. (Cl. 62—91.5)

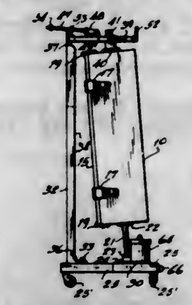


A self contained and readily portable refrigerating system, comprising in combination, an enclosed space to be refrigerated, a separate closed container for an evaporable primary refrigerant, a closed refrigerating circuit for a low temperature liquid refrigerant passing in heat releasing relation with said primary refrigerant without direct contact therewith and passing through said space to be refrigerated in heat absorbing relationship, a separate and readily replaceable source of gas under pressure, means for regulating the pressure of the released gas, means driven by said released gas interposed in said closed circuit for effecting the positive circulation of the secondary refrigerant but without direct contact with said released gas, and thermostatic means for controlling the flow of gas to the said driven means in such a manner as to maintain the temperature of the said enclosed space substantially constant.

2,593,737
PERFLUORINATED CYCLOHEXYL CARBOXYLIC ACID AND CYCLOHEXYL ACETIC ACID AND DERIVATIVES
Albert E. Diesslin and Edward A. Kauck, St. Paul, Minn., and Joseph H. Simons, Gainesville, Fla., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Original application January 10, 1949, Serial No. 70,154. Divided and this application June 27, 1951, Serial No. 233,952
2 Claims. (Cl. 260—514)

2. The fluorocarbon compounds of the class consisting of the fully fluorinated saturated cyclic monocarboxylic acids which have from seven to eight carbon atoms in the molecule and which have a terminal cyclohexyl fluorocarbon ring, represented by the formula $C_nF_{2n-1}COOH$, and their acid fluorides, amides, and alkyl esters; these derivatives being hydrolyzable to form said acids.

2,593,738
PADDING RACK FOR PAPER STOCK
Kenneth J. Dollahite, Fort Worth, Tex.
Application March 24, 1951, Serial No. 217,375
8 Claims. (Cl. 11—1)



1. In a padding rack for printers and book binders, a stacking case for paper stock, a base having a supporting standard secured thereto and extending vertically from the rear of said base, a guide frame connected to the upper end of said standard and extending forwardly over said base, the said case having a spindle attached to its bottom and supporting said case for rotation above said base, an annular flange member secured to the top of said case providing an upper pivot therefor in said guide frame, conformations in said guide frame adapting said upper pivot to be shifted to different positions therein, means for locking said pivot in one of said conformations, and a pair of guide doors hinged to one side of said case.

2,593,739
LADY'S SLIP
Glenn C. Elder, Bowling Green, Mo.
Application September 20, 1948, Serial No. 50,041
8 Claims. (Cl. 2—73)

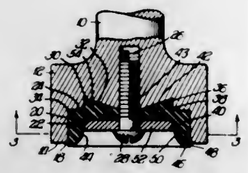
7. A garment comprising, an upper bodice portion, a midriff section, and a lower skirt portion including a pair of front gores each having a

substantially straight cut and a bias cut edge and a rear gore cut substantially entirely on the bias, said front gores being secured together along their straight cut edges and being secured along their bias cut edges to said rear gore, each



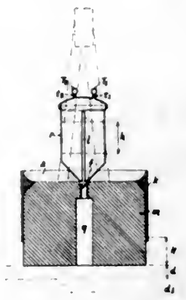
front gore having a top edge secured to the midriff section, and said rear gore including an integral waist section secured to said bodice portion, to said midriff section and to the top edges of said front gores.

2,593,740
VALVE SEALING ASSEMBLY
Stewart W. Faust, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application August 6, 1949, Serial No. 108,898
2 Claims. (Cl. 251—160)



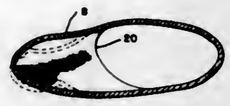
2. In a seal assembly, the combination of a body member with a recess therein having a cylindrical side wall and an inner end wall, said inner end wall including a centrally tapped opening, an annular support surface projecting inwardly from said side wall and an annular relief disposed between said tapped opening and support surface, the intersection of said relief and support surface defining a sharp corner, a resilient sealing element comprising a flat base portion with a centrally located opening therethrough and an integral annular sealing lip about the outer portion of said base disposed in said recess to cover said inner end wall in contact with said support surface, a washer of substantially the same diameter as said relief covering the exposed portion of said base, and a screw projecting through said base into said tapped opening for compressing said base through said washer to extrude a portion of said base into said relief to thereby limit elongation of said sealing lip.

2,593,741
PROCESS FOR THE ELECTROLYTIC PRODUCTION OF ALUMINUM
Louis Ferrand, Paris, France
Application July 16, 1946, Serial No. 683,902
In France July 17, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 17, 1963
4 Claims. (Cl. 204—67)



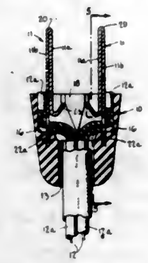
1. The method of producing electrolytic aluminum in an oven having a carbon anode suspended in a layer of molten alumina electrolyte comprising dispersing finely powdered alumina in an atmosphere of gaseous methane, and discharging the resulting suspension directly into the space between the anode and the molten layer, the proportion of alumina to methane in said suspension being such that the methane is sufficient in amount to combine the entire oxygen content of each particle of alumina therein; whereby to obviate oxidation of the carbon anode.

2,593,742
METHOD OF REPRODUCING THE HUMAN FOOT OR ANY OF THE TOES THEREOF BY MEANS OF A PRESHAPED FLEXIBLE FORM IMPREGNATED WITH MATERIAL CAPABLE OF SETTING HARD UPON THE APPLICATION OF MOISTURE
David Friedman, Chicago, Ill.
Application August 2, 1948, Serial No. 41,955
2 Claims. (Cl. 18—55.05)



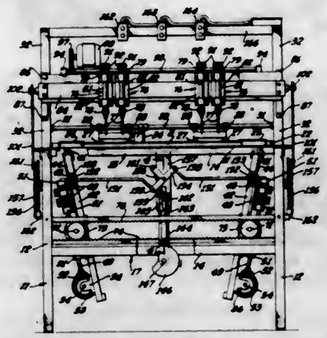
1. The method of reproducing the human foot or a toe thereof which consists of providing a preshaped flexible pocketed form of loosely woven cloth impregnated with powdered plaster-of-Paris, applying the form and the plaster-of-Paris thereof while in dry condition upon the desired foot or toe thereof, applying water to the form and working the plaster-of-Paris into bonding consistency until the form has been intimately molded and shaped to the contour of the foot or toe upon which placed, permitting the molded form while in such shape to harden upon the foot or toe of the wearer, removing the molded negative form from the foot or toe upon which formed, and thereafter casting a positive from the negative molded form.

2,593,743
ELECTRIC PLUG WITH BLADES HAVING ELEMENTS FOR PIERCING AND CLAMPING INSULATED CORDS
Joseph A. Galvao, New York, N. Y.
Application November 30, 1950, Serial No. 198,304
3 Claims. (Cl. 173—361)



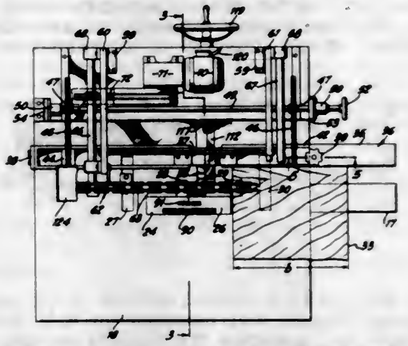
3. In an electric plug, a body of insulation formed with a wire-receiving socket open at its outer end and its bottom formed with oppositely disposed inclined portions, and a contact prong inserted into said socket through the open outer end thereof, said contact prong having at its inner end a spur tapered to a point for penetrating a conductor wire and arms at opposite sides of said spur formed along their outer side edges with downwardly converging cam surfaces for engaging said oppositely disposed inclined portions of the body and serving to bend the arms towards opposite side edges of the companion spur and into gripping engagement with portions of the wire penetrated by the spur when the prong is forced into the socket and into engagement with the inclined portions of the bottom of said sockets.

2,593,744
WOODWORKING MACHINE WITH AUTOMATICALLY MOVABLE CUTTER-CARRYING FRAME
Forest H. Gillespie, Los Angeles, Calif.
Application December 5, 1946, Serial No. 714,172
17 Claims. (Cl. 144—45)



6. In a woodworking machine, a work table, a battery of rotary end cutters, a frame supporting said cutters on separate parallel axes respectively, means including spaced gears pivotally supporting said frame to enable said cutters to move toward and from a work piece on said table, toothed tracks supporting said gears for translatory movement on said frame, and means to secure said gears in a selected position on said tracks.

2,593,745
DRAWER FRONT SHAPING AND GROOVING MACHINE
Forest H. Gillespie, Los Angeles, Calif.
Application April 7, 1947, Serial No. 739,758
2 Claims. (Cl. 144—3)



1. In wood working apparatus of the class described: a horizontal table having means thereon adapted to guide a work piece moved in sliding contact therewith along said table; rotary saw and cutter means adapted and positioned to separate and groove a portion of said work piece during said motion thereof; and a rotary edge shaping tool mounted adjacent said table, positioned to shape an edge of said separated portion, said edge shaping tool rotating to move cutting edges therein against said work piece movement and having its rotary axis tilted against the direction of motion of said work piece whereby the action of said shaping tool forces said work piece against said table.

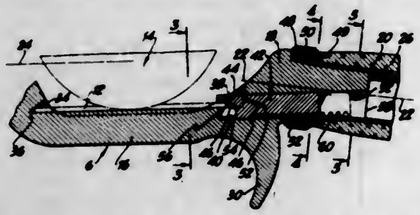
2,593,746
PRODUCTION OF TETRAALKYLSTILBENE QUINONES AND TETRAALKOXYSTILBENE QUINONES
William K. T. Gleim, Orland Park, Alexander Gaydasch, Brookfield, and Robert H. Rosenwald, Western Springs, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 17, 1950, Serial No. 168,846
12 Claims. (Cl. 260—396)

1. A process for producing a tetra-substituted stilbene quinone in which the substituents are selected from the members of the group consisting of an alkyl group and an alkoxy group each containing from one to six carbon atoms which comprises oxidizing a member of the group consisting of a dialkyl-p-cresol and a di-alkoxy-p-cresol having alkyl and alkoxy groups containing from one to six carbon atoms by heating the same at a temperature of from about 20° to about 100° C. with an oxidizing agent selected from the group consisting of alkali metal chlorates and ferricyanides, lead dioxide and silver oxide.

2,593,747
FISHING REEL LOCK
Melvin C. Godfrey, Los Angeles, Calif., assignor, by mesne assignments, to Narmco, Inc., San Diego, Calif., a corporation of California
Application September 23, 1947, Serial No. 775,574
5 Claims. (Cl. 43—22)

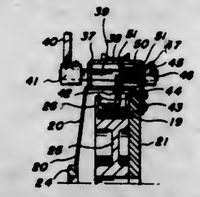
1. In a fishing rod handle adapted to hold a reel having a base: a body forming a handle

portion and a seat for the base; said seat at one end having an overhanging wall beneath which one end of the base can be inserted; a lock bar having an inclined face adapted to engage the other end of the base, said bar having threads on only a portion of its periphery, said body having a channel for slidably accommodating said bar; the handle portion having an axis slightly inclined to the direction of movement of the



bar, and having a conical surface; a nut having tapered threads and mounted on said conical surface and engaging the threads on the bar, the taper of the threads in the nut being such that the bar is moved by rotation of the nut in a direction parallel to the seat; means restraining axial movement of the nut; and a stop carried by the handle portion to limit the movement of the bar in reel releasing direction.

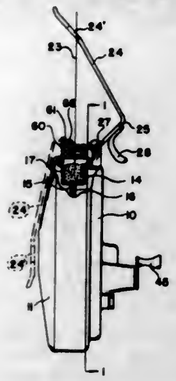
2,593,748
FISHING REEL
Jacob M. Goldberg, Denver, Colo.
Application August 29, 1949, Serial No. 113,012
2 Claims. (Cl. 242—84.5)



1. A fishing reel comprising a casing, a line carrying flanged spool rotatably mounted in the casing, means for rotating the spool, one of the spool flanges having an undercut circumferential edge, and line controlling mechanism including a line engaging leg pivotally mounted radially opposite the peripheral portion of the spool and means for moving the leg into line engaging position between the spool flanges in contact with said undercut spool flange.

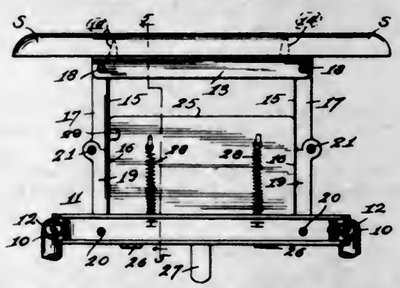
2,593,749
FISHING REEL
Jacob M. Goldberg, Denver, Colo.
Application December 5, 1949, Serial No. 131,205
3 Claims. (Cl. 242—84.5)

1. In a fishing reel provided with a line carrying spool and a housing for the spool, said housing comprising opposite side walls connected by a peripheral wall, one of said side walls and the peripheral wall having a slot therein through which a line can be withdrawn from the spool, the combination of a line guiding hinged control member mounted on the housing and manually movable to casting position wherein the hinged control member extends across the peripheral wall and engages the slotted portion of the housing, or to line retrieving position wherein it extends radially away from the housing, and a second line control member pivotally mounted on the peripheral wall of the housing between the spool and said hinged control member, said second control member comprising an arm engageable with the spool, a portion engageable with



the hinged control member, and means for automatically urging the arm into spool engaging position when the hinged control member is in its line retrieving position and out of engagement with said second control member.

2,593,750
EXTENSIBLE SEAT FOR CHAIRS
Meyer Greitzer, Los Angeles, Calif.
Application May 20, 1947, Serial No. 749,150
2 Claims. (Cl. 155—38)

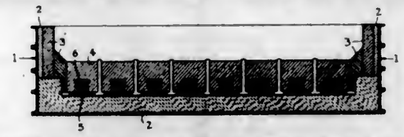


2. The combination with a chair including side rails, of a frame mounted on said side rails, a chair seat, plates having their lower ends pivotally connected to the frame near its sides, hinge plates pivotally connected to said seat near its sides, the lower ends of said last mentioned hinge plates being hinged to the upper ends of the first mentioned hinge plates and retractible springs having their ends secured to said hinge plates and extending across the axis of the hinge connection between said plates.

2,593,751
IGNEOUS ELECTROLYSIS CELL
Jean Grolée, Paris, France, assignor to Pechiney-Compagnie de Produits Chimiques et Electrometallurgiques, a corporation of France
Application May 17, 1948, Serial No. 27,568
In France September 5, 1947
4 Claims. (Cl. 204—243)

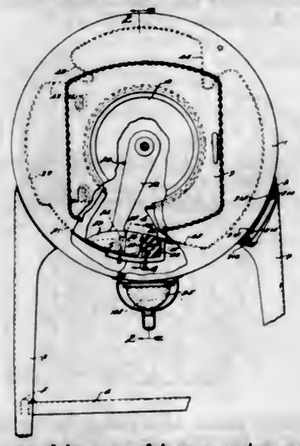
1. An igneous electrolytic cell comprising: an inner lining for the bottom portion thereof formed of baked carbonaceous material, current conducting metal bars positioned in said lining,

and a cast seal of low electrical resistance between said lining and said bars consisting of cast iron containing approximately 3% carbon, 2.5 to 3% silicon, 1 to 1.5% phosphorous, less than 0.5% manganese, less than 0.05% sulfur, and the remainder iron, the material of said seal being characterized in having a melting point in excess



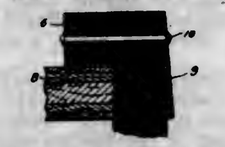
of 1000° C., and in being substantially free, following solidification, of constituents susceptible of undergoing transformation with increase in volume when subjected to temperatures in the range of 900° C. for prolonged periods of time, whereby the production of destructive stresses in the lining during the formation of the seal and during the operation of the cell is avoided.

2,593,752
FABRIC WASHING MACHINE
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application May 2, 1946, Serial No. 666,706
9 Claims. (Cl. 68—61)



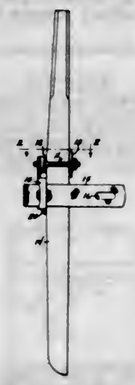
1. In a washing machine, a rotor mounted on a horizontal axis, a pair of tumbling baffles extending inwardly from the peripheral wall of the rotor in spaced relation from each other, said rotor having the peripheral wall portion opposite to said baffles offset inwardly and disposed on an arc of a smaller radius struck from the rotor center.

2,593,753
METHOD OF MAKING BARRELS
William E. Hamacher, St. Louis, Mo.
Application June 27, 1945, Serial No. 601,903
5 Claims. (Cl. 144—309)



1. The method of making a barrel-like container of plywood which is characterized by forming a cylinder, beveling the outer face of the cylinder near the end thereof, severing an annulus from the beveled end portion, beveling the inner face of the remaining portion of the cylinder near the end thereof, inserting a head within the cylinder and spaced inwardly from the end of the remaining portion of the cylinder with its periphery fitted against the beveled inner periphery of the cylinder, removing a relatively short section of the annulus, inverting the annulus, contracting the annulus and inserting it within the end of the cylinder with its beveled outer periphery fitted against the beveled inner face of the cylinder, and securing the annulus to the cylinder.

2,593,754
FRICTION GRIP LUG STRAP SUPPORT
Wingo Herron, Charlotte, N. C.
Application March 8, 1950, Serial No. 148,430
4 Claims. (Cl. 139—154)

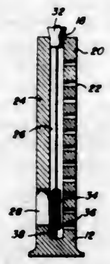


1. In a lug strap support, the combination which comprises a rectangular shaped frame having horizontally disposed upper and lower side members and vertically disposed end members, said side and end members being substantially rectangular shaped in cross section and having long side walls with end walls shorter than said side walls, one of the side members of the frame having a mounting flange extended therefrom and the side member on the opposite side of the frame having a tab extended therefrom, the bearing surfaces of the said mounting flange and tab being in alignment whereby the tab and mounting flange are provided with gripping faces in a common plane and said tab provides an extended bearing surface on the side of the frame opposite to that from which the mounting flange extends, thereby preventing the said side member cutting into a strap gripped between the frame and a picker stick upon which the frame is mounted.

2,593,755
HYGROMETER
Clem H. Hess, Conway, Ark., assignor of fifty per cent to Rolland A. Bradley, Conway, Ark.
Application August 20, 1948, Serial No. 45,299
2 Claims. (Cl. 73—337)

1. A hygrometer for indicating fishing probabilities comprising a casing including a base member, an apertured top member, a back member having longitudinally spaced openings, and a front member having a window portion at the bottom thereof, a twisted catgut longitudinally disposed in said casing between said back and front members, means for suspending said catgut from the aperture provided in said top

member, a multi-colored cylindrical indicator secured at the bottom of said catgut and disposed in front of said window portion, a projection adjacent the lower end of said indicator,



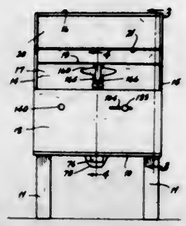
and a pair of spaced stops carried by said base member selectively engaging said projection for limiting the horizontal rotary movement of said indicator.

2,593,756

PRIZE DISPENSING TARGET GAME DEVICE

Sidney P. Hitchings, St. Louis County, Mo.

Application August 26, 1946, Serial No. 692,948
15 Claims. (Cl. 273—102.3)



1. A game apparatus including a movably mounted target device at which projectiles may be directed, means for holding the target device against movement, target means adjacent the target device to receive projectiles, means on the movably mounted target device adjacent the target means to receive and hold projectiles that do not attain the target means, means to release the holding means and effect movement of the target device when a projectile attains the target means, and means responsive to the movement of the target device to effect collection of the projectiles from the receiving means.

2,593,757

ORAL APPLICATOR

Henry J. Hofacker, Worthington, Ohio

Application October 6, 1948, Serial No. 53,035
4 Claims. (Cl. 128—264)

1. A device for the oral administration of pills and the like, comprising in combination; an elongated tubular body member, a plunger slidable in said body member at one end thereof, a flexible, elongated cord-like member attached to said body member at one end thereof and to the inner end of said plunger through said tubular body member at the other end thereof, said cord-like member being of sufficient length to present a loop when the plunger member is within the body member at one extreme position and to be held tightly against the body member when the plunger is in its other extreme position, and resilient means acting between the body member and the plunger for



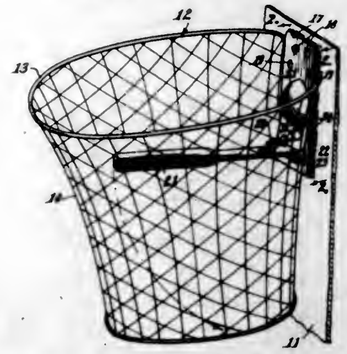
normally holding said plunger in one of its extreme positions.

2,593,758

SIGNAL MEANS FOR BASKETBALL BASKETS

Arthur Carl Holmdahl, Kellogg, Iowa, assignor to Midwest Metal Stamping Co., Kellogg, Iowa, a corporation of Iowa

Application July 29, 1948, Serial No. 41,311
3 Claims. (Cl. 273—1.5)



1. Basketball game apparatus for mounting on a backboard or the like comprising a hoop, means for securing the hoop to said backboard, and means providing an audible signal each time a ball passes through said hoop, said means comprising a bell, a clapper for said bell, a resilient support for said clapper, and hinged operating means for effecting striking of the clapper against said bell, said hinged operating means including at latch member which releases and reengages with said resilient support each time a ball passes through said hoop.

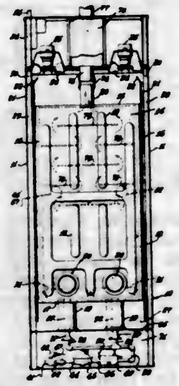
2,593,759

FORCED AIR FLOW AIR-HEATING FURNACE

Artemus J. Horn, Los Angeles, Calif., assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware

Application February 19, 1948, Serial No. 9,520
2 Claims. (Cl. 126—110)

2. In a space heater, the combination of an upright housing; a combustion chamber within and spaced from the housing walls thereby forming an air passage space for heated air, the upper portion of said housing extending above said chamber; a burner in the lower portion of said combustion chamber; vent means communicating with said combustion chamber, disposed with lateral symmetry, and passing vertically through the upper portion of said housing; fan means disposed symmetrically with respect to said vent means in the upper portion of said



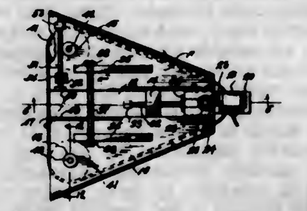
housing above said combustion chamber effective to force air to be heated past said combustion chamber; inlet port and outlet port means in said housing communicating with said fan means and with said air passage space, said inlet port means admitting relatively cold air to said housing, said outlet port means discharging heated air to the space to be heated.

2,593,760

PORTABLE BAND SAW

Guy James, Yakima, Wash.

Application March 24, 1950, Serial No. 151,667
1 Claim. (Cl. 143—21)



A device of the character described comprising a substantially triangular frame having a passageway extending centrally therethrough from the apex thereof, an idler pulley mounted adjacent each end of the base of the frame, a platform slidably and adjustably mounted in the passageway adjacent the apex end of the frame, a drive pulley carried by the platform, a motor mounted upon the platform, drive means interconnecting the motor and the drive pulley, a band saw entrained over all of said pulleys, a saw guard integrally formed in each of the sides of the triangular frame, a work guide plate formed integrally with the frame at one side of the passageway at the base of the frame, a work guide bar laterally and adjustably carried by the frame at the other side of the passageway in parallel opposed relation to the work guide plate, a pair of parallel spaced rails carried by the frame perpendicularly to the base thereof and on each side of said passageway, said rails each having a longitudinal groove in the outer side thereof, a handle extending in a direction parallel to the base of the frame, a leg at each end of said handle, said legs each having an inturned outer end slidably engaged in one of said grooves, and a set screw extending through each leg and adapted to bear against its adjacent rail.

2,593,761

REDUCING THE MERCAPTAN CONTENT OF PETROLEUM DISTILLATES WITH A HYDROPEROXIDE

Warren W. Johnstone, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application February 21, 1950, Serial No. 145,601
10 Claims. (Cl. 196—29)

1. A process for reducing the mercaptan content of a sour petroleum distillate which comprises treating said distillate with an organic peroxy compound selected from the group consisting of tertiary butyl hydroperoxide and cumene hydroperoxide

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2,593,762

PAPER HOLDER

Ralph V. Jones, Pompano, Fla.

Application June 10, 1949, Serial No. 98,349
2 Claims. (Cl. 206—74)



1. A holder for a stack of paper sheets, comprising a floor for supporting the stack, a wall rising from said floor, said wall adapted to retain the stack of sheets in substantially edgewise superposed alignment with each other, said wall having a flange provided with an aperture, and means responsive solely to the urge of gravity for retaining the stack of sheets in the holder until individually and successively abstracted therefrom, said means comprising an impaler operative only upon the uppermost few sheets of the stack adjacent the rear edge thereof, said impaler slidably supported within the aperture of the flange of said wall, said impaler having a groove formed in the side thereof, said groove being cooperative with the edge of the aperture of said flange for retaining the impaler in elevated position while loading the holder with a stack of sheets.

2,593,763

RECTIFICATION APPARATUS

Peter Leonidovitch Kapitza, Moscow, Union of Soviet Socialist Republics

Application February 20, 1946, Serial No. 648,907
In the Union of Soviet Socialist Republics May 15, 1945
1 Claim. (Cl. 261—89)

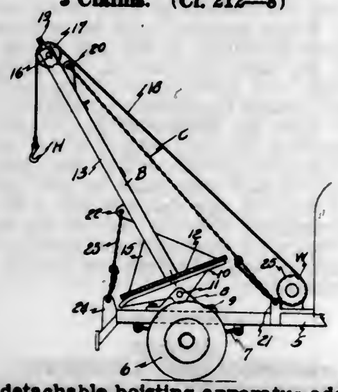
A rectifying apparatus comprising a central inlet conduit for liquid to be rectified and having outlet means connected thereto for the released gas, a casing into which said conduit extends, a fixed horizontal disc positioned within said casing and surrounding and secured to said central inlet conduit, a rotatable disc within said casing mounted in parallel relationship with the fixed disc and adjacent the end of the central inlet

conduit and forming a first rectifying stage, a flared second conduit concentrically positioned in said casing with respect to the first inlet conduit and having its top adjacent the periphery of the rotatable disc for receiving liquid therefrom, a second fixed horizontal disc positioned within said casing and surrounding and secured to the second conduit, a second rotatable disc within said casing mounted in parallel relationship with the second fixed disc and forming with the latter a second rectifying stage, the flared second conduit having its bottom adjacent the second



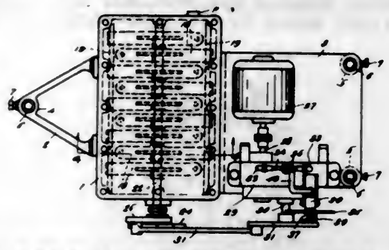
rotatable disc at the center of the latter for discharging the liquid in a thin film thereover, concentrically arranged annular projections on the fixed discs extending toward the rotatable discs, concentrically arranged annular projections on the rotatable discs extending toward the fixed discs and positioned intermediate the projections on the latter, and vanes formed on the annular projections on the rotatable discs and extending radially toward the annular projections on the fixed discs, respectively, whereby the liquid is thrown by the projections on the rotary discs successively against the projections on the fixed discs.

2,593,764
DETACHABLE HOISTING APPARATUS
Fred E. Kaunitz, Jr., Bay City, Mich.
Application April 26, 1948, Serial No. 23,343
3 Claims. (Cl. 212—8)



1. A detachable hoisting apparatus adapted to be detachably mounted on a truck frame, a fifth wheel hingedly connected to said frame, a boom structure including a disc-shaped plate secured to the fifth wheel and tiltable therewith, front brackets on the front of said boom structure adjacent the upper end thereof and on the truck frame respectively, flexible means anchored to said front brackets and to the truck frame brackets, rear brackets on the rear of the boom structure and on the rear end of the truck respectively, and flexible means connecting said rear boom structure brackets and truck frame rear brackets for holding the boom structure in set position.

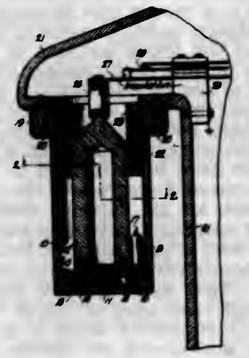
2,593,765
MECHANICAL CONTROL FOR WATER DISTRIBUTOR
Leonard O. Keefer, Spokane, Wash.
Application March 1, 1946, Serial No. 651,251
1 Claim. (Cl. 137—144)



In a water distributor, a casing open at its top and having a bottom and side walls and end walls, a removable cover for said casing, necks extending downwardly from the bottom and having upper ends communicating with the casing and surrounded by valve seats carrying upwardly projecting fingers spaced from each other circumferentially of the seats, said necks being arranged in rows adjacent the side walls, the necks of each row being spaced from each other longitudinally of the casing, valves guided vertically onto and off of said seats by the fingers and having upwardly extending stems threaded from their upper ends, rods mounted longitudinally in said casing above spaces between the valve seats and side walls of the casing and spaced downwardly from upper ends of the valve stems, strips in said casing extending transversely therein and pivoted at their outer ends upon said rods, the strips carried by each rod being disposed between and extending in an opposite direction to the strips carried by the other rod, the strips being of less length than the width of space between the rods and having their free ends formed with openings through which upper portions of the valve stems freely pass, nuts threaded upon said valve stems and disposed above and below said strips and constituting adjustable abutments engageable by the strip to raise and lower the valves when the strips are tilted vertically about the rods an actuating shaft extending longitudinally in said casing midway the width of space between said valve stems and rotatably supported by the end walls with one end portion projecting outwardly from the casing and adapted to have rotary motion imparted to it, and discs secured upon said shaft under said strips and having angularly disposed edge faces engageable with under surfaces of the companion strips and serving to individually swing the strips vertically and open and close the valves in predetermined order.

2,593,766
APPARATUS FOR TESTING MATERIALS
Charles N. Kimball, Johnson County, Kans., William R. Lewis, Clay County, Mo., and Herman A. Strecker, Wyandotte County, Kans., assignors to C. J. Patterson Company, Kansas City, Mo., a corporation of Missouri
Original application April 26, 1947, Serial No. 744,120, now Patent No. 2,542,928. Divided and this application September 29, 1948, Serial No. 51,742
20 Claims. (Cl. 175—183)

1. Apparatus for testing materials, comprising an annular chamber closed at one end and open at the other for receiving a sample of the material to be tested, the inner and outer walls of said chamber comprising spaced apart electrodes engaging the sample, an insulating ring adapted to enter the open end of said chamber and compress the sample, a stop for limiting the advance of said ring into the chamber whereby the sample is compressed to a predetermined density, circuit means connected to said electrodes for



measuring an electrical characteristic of the compressed sample, and a contact controlled by the advance of said ring into the chamber for disabling said circuit means whenever said ring is advanced into the chamber less than the distance required to compress the sample to said predetermined density.

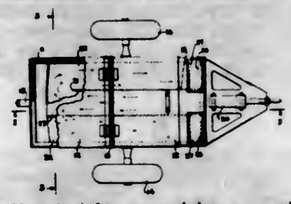
2,593,767
TOE PROTECTOR
Isador Kiwad, Westwood, N. J.
Application December 14, 1948, Serial No. 65,250
5 Claims. (Cl. 128—81)



1. A toe protection device comprising a longitudinal main body portion made of yieldable material, a plurality of toe shields extending upwardly from said main body portion and adapted to be disposed between pairs of adjacent toes, said main body portion comprising a flat sheet of material rolled up on itself to form a member which is resilient to pressure and also bendable along its length and thereby adapted to lie across the under surface of the toes and in the hollow areas at the bases thereof, and means forming a part of said device for maintaining said main body in such rolled up condition.

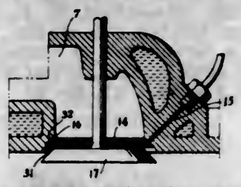
4. The process of forming a toe protector, comprising the steps of forming a blank of sheet material having at least four sides, forming a plurality of openings in said blank, rolling said blank upon itself to form a main rolled body with said openings exposed to view from the outside, securing said roll against unrolling, forming toe shield bodies including toe shields interconnected by a central web portion, and inserting at least one of said shield bodies through adjacent of said openings with its toe shields projecting from the rolled body.

2,593,768
HEATING KETTLE
Eliard G. Kohn, Miami Beach, Fla., now by change of name Eliard G. Conn
Application August 17, 1948, Serial No. 44,751
4 Claims. (Cl. 126—343.5)



1. A heating kettle comprising a container having four walls including two end walls and two side walls and a bottom, a center flue extending from one end wall of the container towards the opposite end wall and having flat sides, the center flue being irremovably fixed to the bottom of the container, the end of the center flue opening through said one end wall before which a heating means is adapted to be mounted, a pair of return flues one on each side of the center flue and connected therewith at one end, the return flues being irremovably fixed to the bottom of the kettle, the return flues and center flue being in side by side contact and their top surfaces being flat and forming at least a portion of the inner bottom of the kettle, the center flue extending above the top of the return flues, outlet means for the return flues, cover means for the kettle, and an outlet adjacent the bottom of the container extending through a wall thereof.

2,593,769
ENGINE FUEL INJECTION
Paul Kollsman, New York, N. Y.
Application December 11, 1945, Serial No. 634,276
3 Claims. (Cl. 123—34)

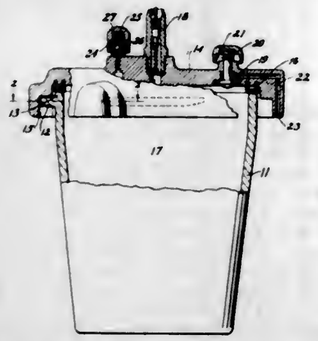


1. In an internal combustion engine having a cylinder and a piston reciprocable therein, an intake valve at the end of an intake duct, through which valve combustion air and fuel are introduced into said cylinder during the intake stroke of the piston, and means for introducing said fuel immediately adjacent said intake valve so that the fuel will be carried along with the initially entering air while the valve is only partly opened and the air travelling at high velocity and turbulence, said fuel introducing means including an annular first groove in said intake valve seat into which liquid fuel is introduced, and a second vent groove in said valve seat on the cylinder side of the fuel introducing groove, said second groove communicating with said intake duct.

2,593,770
DEVICE FOR CARBONATING AND DISPENSING BEVERAGES
Paul Kollsman, New York, N. Y.
Application July 10, 1946, Serial No. 682,662
9 Claims. (Cl. 261—64)

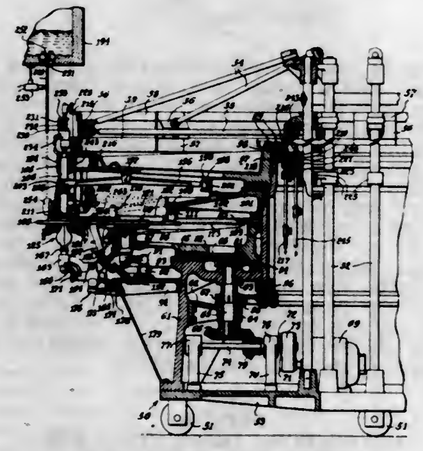
4. A device for carbonating and dispensing beverages comprising, a source of carbon dioxide

under pressure; a pressure resistant cup having a rim and an outwardly extending protrusion adjacent to, and below, said rim; a cover having an inwardly extending protrusion for engaging, and locking with, the outwardly engaging protrusion on said cup and including sealing means for sealing the cover to the cup to form a sealed pressure chamber, the cup and cover constituting a unit adapted to be shaken by hand; an inlet check valve on said cover for introducing



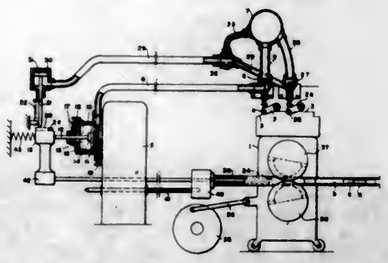
gas under pressure into said chamber and retaining it therein, said valve having means for releasable attachment to a pressure hose coupling supplying carbon dioxide from said source; and a manually operable relief valve on said cover for relieving pressure from said chamber, said unit being free from any rigid connection with said source for freedom of movement in all directions relatively to said source while under pressure.

2,593,771
APPARATUS FOR THE MANUFACTURE OF GLASS ARTICLES
Alfred H. Laidig, Bloomfield, N. J., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 17, 1946, Serial No. 662,724
6 Claims. (Cl. 49—8)



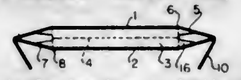
1. Apparatus for forming glass articles comprising a rotatable spider, a series of mold carriers supported by said spider and rotatably and radially movable with respect thereto, a mold secured to each carrier and divided horizontally and vertically into upper and lower side sections, cam means for moving each carrier and opening and closing the side sections of each mold, a rotatable plate carrying for each mold a combined plunger housing, with blow-head having a sleeve projecting therebelow, and an associated plunger, means for supplying air under pressure to each plunger, each sleeve closely fitting its plunger, but with its lower end space of such a size that when it is moved into its mold an annular space of desired radial dimension is provided between it and the upper sections of said mold cam means for moving each plunger and housing independently of one another, axially toward and away from their mold, a connection for withdrawing air from between each blow-head and sleeve, while the associated plunger is being operated, to cause glass to be molded in the annular space between said sleeve and the upper section of its mold, an air valve in each plunger, cam means for opening and closing each valve to at the proper time supply air to a mass of glass in its mold, means carried by said housing for depressing the lower sections of its mold, means slidable between each pair of upper and lower mold sections to support a mass of glass in the upper sections, and means for moving said slidable means to allow said glass to sag into the lower sections of said mold prior to introduction of the plunger thereinto and the blowing of the glass article.

2,593,772
MANDREL POSITION ADJUSTMENT MEANS FOR PILGRIM ROLLING MILLS
Gustaf Hjalmar Larsson, Alsten, near Stockholm, Sweden, assignor to See Fabriks Aktiebolag, Sandviken, Sweden, a corporation of Sweden
Application July 17, 1947, Serial No. 761,558
In Sweden December 16, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires December 16, 1962
9 Claims. (Cl. 80—14)



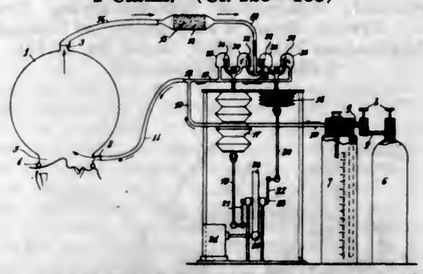
9. The combination of a rolling mill including a reciprocable roll housing, rolls having conically formed rolling grooves supported therein, a reciprocable rolling mandrel cooperable with the rolls to determine wall thickness of a tube blank to be rolled, the blank passing over the mandrel and between the rolls during a rolling operation, fluid operated means operatively connected with the mandrel to move the same relative to the tube blank and the rolls to produce a variation in the wall thickness of a finished tube leaving the rolls, said fluid operated means including control means responsive to the reciprocable movement of the roll housing providing automatic actuation of said fluid operated means, means normally urging said mandrel to a forward position between the rolls and locking means to retain said mandrel in a position where it is withdrawn from said rolls.

2,593,773
FOLDING BOX OR CARTON
David Levkoff, Great Neck, N. Y.
Application January 14, 1949, Serial No. 70,999
8 Claims. (Cl. 229—41)



1. A receptacle having a bottom and sides hinged thereto, the bottom being divided by a longitudinal score line into sections foldable together between said sides, ends hinged to the extremities of the sides, and foldable connector segments hinged to said ends, each segment being also hinged to part only of the edge at the adjacent end of one of said sections of the bottom.

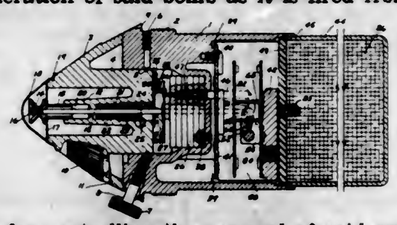
2,593,774
APPARATUS FOR NO-EFFORT INHALATION ANESTHESIA
Miguel Angel Loredo, Habana, Cuba
Application January 19, 1949, Serial No. 71,697
In Cuba March 18, 1948
1 Claim. (Cl. 128—188)



An apparatus for administering anesthetic gases in a closed circuit from which the atmosphere is excluded, comprising an elastic breathing bag having an inlet, an outlet and a breathing passage, a carbon dioxide absorber having an inlet and an outlet, a tube connecting said breathing bag outlet with the inlet of said carbon dioxide absorber, a pumping device having an inlet and a discharge port, a second tube connecting the outlet of said carbon dioxide absorber with the inlet of said pumping device, a third tube connecting said discharge port of said pumping device with the inlet of said breathing bag, an anesthetic gas supply source, a fourth tube connecting said anesthetic gas supply into said third tube connecting said pumping device with the breathing bag inlet, said fourth tube discharging the anesthetic gases coming from said gas supply source into said third tube at a point in the latter between the discharge port of said pumping device and said breathing bag inlet, and means for actuating said pumping device.

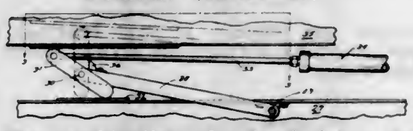
2,593,775
FUSE
John B. MacLean, Peru, Ill., assignor to General Time Corporation, New York, N. Y., a corporation of Delaware
Application August 14, 1944, Serial No. 549,310
6 Claims. (Cl. 102—71)

1. In a fuze for a rocket bomb, the combination of a firing pin normally tensioned toward a detonator, a normally energized timing device, a cam disc controlled thereby, means controlled by said cam disc for effecting release of said firing pin, an arming pin normally blocking said cam disc, and an inertia device movable by the acceleration of said bomb as it is fired from its



tube for controlling the removal of said arming pin from blocking position to initiate the operation of said timing device.

2,593,776
DUMP BODY TILTING MECHANISM
Charles E. Margala, Youngstown, Ohio
Application March 21, 1950, Serial No. 150,971
2 Claims. (Cl. 298—19)

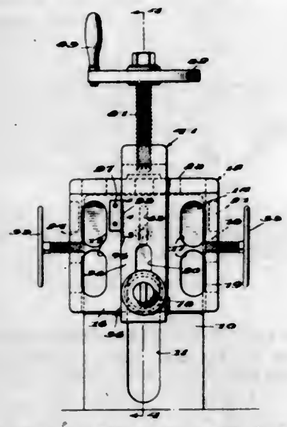


1. The combination of a truck frame and a body pivotally mounted thereon adjacent one end of said truck body for tipping movement with respect to said frame, means for elevating said body, said means including a two-part A frame, the base of which is pivoted to said frame at a point thereon midway between the ends of the said body and a hydraulic piston and cylinder assembly, one end of which is pivoted to the said frame at a point adjacent the pivotal mounting of the said body on said frame and elevated with respect to the said pivotal mounting of the said A frame to the base, the piston rod of the said piston and cylinder assembly being pivotally secured to the outermost end of said two-part A frame and pump means for energizing the said hydraulic piston and cylinder assembly whereby the body may be lifted by movement of said two-part A frame toward said hydraulic piston and cylinder assembly.

2,593,777
DEVICE FOR MILLING KEYWAY SLOTS
Lewis W. McClelland, Topeka, Kans.
Application July 20, 1949, Serial No. 105,797
5 Claims. (Cl. 90—12)

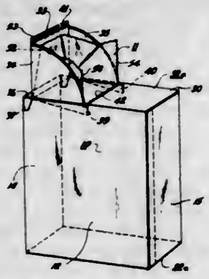
1. A device for milling the keyway slot in the shank of a railway car coupler comprising, a cup-shaped body member having a cross section similar to the cross section of the shank of the coupler adapted to be arranged over the rear end of the coupler shank with a closed end of the cup-shaped body member abutting against the rear end thereof, threaded screws carried by the cup-shaped body member for engaging sides of the coupler shank to adjust the position of the body member on the coupler shank, said body member having an elongated recess in one side thereof arranged lengthwise thereof, said body member having a second elongated recess arranged in the opposite side extending lengthwise thereof, a U-shaped tool holder having legs slidable in said recesses, bearings carried by free ends of said legs, a shaft threaded in an intermediate portion of the U-shaped tool holder adapted to engage the closed end of the cup-shaped body

member to move the tool holder relative to the body member, and a detachable milling cutter



journalled for rotation in said bearings and adapted to extend through the keyway slot in the coupler shank.

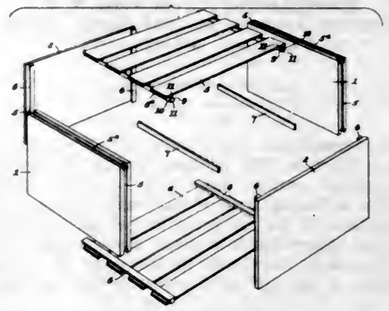
2,593,778
CARTON
Robert F. McGinnis, Cedar Rapids, Iowa
Application October 6, 1947, Serial No. 778,140
9 Claims. (Cl. 229—17)



7. The combination, in a package, of an outer container having a discharge opening therein, a pouring spout hingedly attached to said container to cover the discharge opening, and an inner liner having a portion thereof secured to the inner side of the pouring spout, one of the edges defining the discharge opening of the outer container having a toothed portion against which the adjacent portion of the inner liner may be torn.

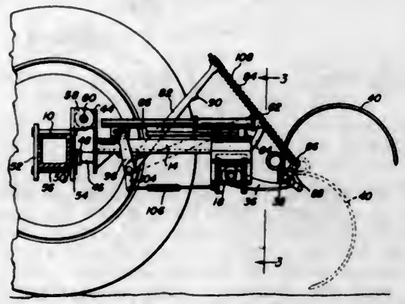
2,593,779
KNOCKDOWN BOX AND CRATE
Charles H. McGrath, New York, and Roger L. Webster, Elmhurst, N. Y.
Application March 16, 1950, Serial No. 149,976
8 Claims. (Cl. 217—65)

2. A knockdown container comprising container body members, a top cover member secured at its opposite ends to the container body members by releasable fastenings that serve unaided as the only fastenings for the same and consist of engaging tongues and grooves of suitable cross section having one inclined side, the tongues projecting from the under side of the top cover member and the grooves formed in the upper edge of the body members opening upward and of sufficient width to receive the tongues from above by downward entrance, and a strip member inserted between the inclined side of each groove and the adjoining inclined side of the tongue



therein to tighten the joint and render it resistant to the release of the cover.

2,593,780
DUMP RAKE
Harold J. McIntosh, Pender, Nebr., assignor to Automatic Equipment Manufacturing Company, Pender, Nebr., a corporation of Nebraska
Application July 9, 1948, Serial No. 37,791
6 Claims. (Cl. 56—27)



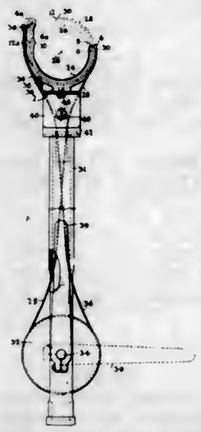
1. In a tractor having a rake carriage secured thereto and a tool bar mounted for vertical pivotal movement on said carriage; a hydraulically operable means for raising and lowering said tool bar comprising a hydraulic cylinder mounted on said carriage, a piston rod slidable in said cylinder, a cam carried by said piston, an inclined lifting arm secured at one of its ends to said tool bar, means actuated by said cam for releasing said lifting arm, and means actuated by said piston rod for raising and lowering said lifting arm.

2,593,781
TREE PROTECTOR BAND
Alfred L. Meis, St. Paul, Minn.
Application May 5, 1945, Serial No. 592,124
2 Claims. (Cl. 43—108)



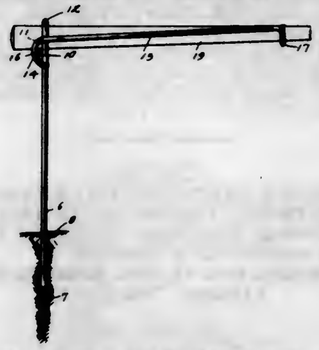
2. A tree protector comprising a flat band of tacky material adapted to be wrapped around the trunk of a tree, a transverse strip secured to one of said band, said strip having a detachable paddle formed thereon, tacks carried by said strip for attaching the end of the band to the bark of a tree and clip means for securing the free end of the band to the strip end.

2,593,782
TOOL FOR HANDLING SUBSTANTIALLY CYLINDRICAL ARTICLES
James B. Minor, Sr., Fairmont, W. Va.
Application April 27, 1951, Serial No. 223,279
12 Claims. (Cl. 294—21



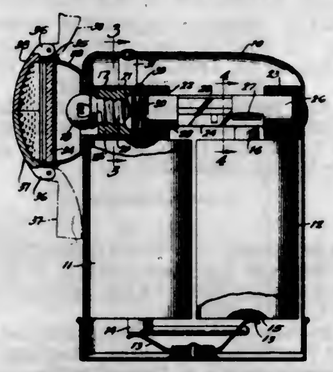
1. A tool for handling fluorescent lighting tubes, comprising a head having a base and arcuate channeled guides at each end of said base, with the channels in the guideways facing each other, a handle secured to said base, an arcuate tube gripping member slidable back and forth in an arcuate path in said channeled guides, cables secured to said tube gripping member for moving it back and forth as described, manually operated means carried by said handle for operating said cables, and means for positioning said head at a desired angle with respect to said handle.

2,593,783
FISHING ROD HOLDER
Jesse C. Mitchell, Seven Mile, Ohio
Application October 22, 1948, Serial No. 55,939
5 Claims. (Cl. 248—38)



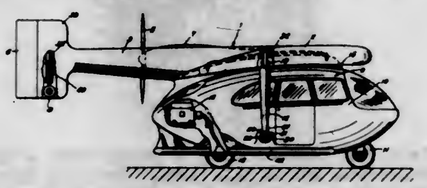
5. A fishing rod holder comprising an elongated substantially straight rod forming a supporting standard adapted to be disposed in substantially an upright position, a second rod having a hook-shaped end, the terminal portion of the hook-shaped end being pivotally connected to the standard near the upper end of the standard, a cross rod secured to the standard above said pivot and crosswise thereof, one end of the cross rod engaging said hook-shaped end for supporting the second rod at substantially a right angle to the standard, the free end of the second rod having an upwardly opening yoke to receive a portion of a fishing rod or pole and the opposite end of the cross rod and the upper end of the standard combining to form a notch for engaging and supporting another portion of the fishing rod or pole.

2,593,784
FLASHLIGHT STRUCTURE
Curt E. Nyberg, Chicago, Ill.
Application May 16, 1950, Serial No. 162,185
4 Claims. (Cl. 177—329)



4. In a flashlight structure, a casing provided with an opening, a battery power supply therein having plus and minus contacts, a flashlight casing provided with an opening and rotatably mounted in said first-mentioned casing, a light bulb supported therein, means connecting the casing of said light bulb to one of said battery contacts, a pair of spaced contacts connected to said light bulb, movable switch means for selectively connecting each of said pair of contacts with the other contact of said battery power supply, and a bimetallic flasher switch extending between one of said pair of contacts and said light bulb, whereby when the circuit is completed with one of said pair of contacts the light bulb gives a steady light and when the circuit is completed with the other of said contacts the current is passed through said flasher switch to give an intermittent flashing of light.

2,593,785
COMBINED AIRCRAFT AND AUTOMOBILE
Edward M. Nye, Elysburg, and Alphonse Peinsen, Sunbury, Pa.
Application December 13, 1945, Serial No. 634,446
6 Claims. (Cl. 244—2)



1. In aircraft, a wing unit and an automobile unit, means for detachably securing said automobile unit to said wing whereby the automobile unit becomes the cabin, and the automobile wheels the landing wheels, of the aircraft, upwardly divergent swingable struts at opposite sides of the aircraft hinged in the wing unit and releasably locked to the automobile unit, one of

said struts being operably connected to said detachable securing means for detaching said automobile unit from said wing unit when said strut is swung away from said automobile unit, said struts when in vertical position affording ground support for said wing unit.

2,593,786

REGENERATED CELLULOSE PELLETS

John J. O'Neill, Jr., Roxana, and Emerald P. Reichardt, Alton, Ill., assignors to Olin Industries, Inc., East Alton, Ill., a corporation of Delaware

No Drawing. Original application June 19, 1947, Serial No. 755,726. Divided and this application August 13, 1949, Serial No. 113,497

1 Claim. (Cl. 260—212)

As a new product, solid spherical pellets of regenerated cellulose having a specific gravity of 1.45 to 1.6 and a ratio of major to minor diameters of less than 1.05.

2,593,787

STABILIZATION OF POLYMERIZABLE UNSATURATED DICARBOXYLIC ACID POLYESTERS AND MIXTURES THEREOF WITH VINYLIC MONOMERS

Earl E. Parker, Milwaukee, Wis., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

No Drawing. Application March 30, 1951, Serial No. 218,534

26 Claims. (Cl. 260—45.4)

6. As a new composition of matter a copolymerizable mixture of: (A) a polyester of a dihydric alcohol and an alpha-beta dicarboxylic, alpha-beta ethylenically unsaturated acid and (B) an ethylenically unsaturated compound copolymerizable with the polyester, said mixture being stabilized against gelation in the absence of peroxide catalysts by a small effective amount of a dissolved added salt of a quaternary ammonium hydroxide and a non-oxidizing acid at least as strong as acetic acid.

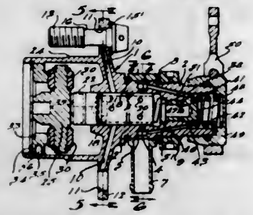
2,593,788

FUEL PUMP

Ben G. Parsons, Grosse Pointe, Mich., assignor to Fuel Charger Corporation, Detroit, Mich., a corporation of Michigan

Application May 4, 1945, Serial No. 591,967

1 Claim. (Cl. 103—2)



In a fuel pump having a pump body, a longitudinal bore within said body, inlet ports through said body communicating with said bore, delivery ports through said body axially spaced from said inlet ports and communicating with said bore, a hollow delivery plunger disposed within said bore, means in said plunger communicating the interior of said plunger with the inlet ports, means in said plunger communicating the interior of the plunger with said delivery ports in succession, means to reciprocate and rotate said plunger to effect delivery of fuel through said delivery ports in succession, and adjustable pressure responsive valve means directly communicable with said bore for controlling the amount of fuel delivered through the delivery port in each delivery stroke of the piston.

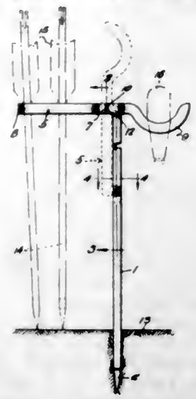
2,593,789

SUPPORT FOR ARCHERY EQUIPMENT

Ben Pearson, Pine Bluff, Ark., assignor to Ben Pearson, Inc., Pine Bluff, Ark., a corporation of Arkansas

Application March 25, 1946, Serial No. 656,844

4 Claims. (Cl. 211—13)



1. A support for bows and arrows comprising a staff for driving into the ground provided with a laterally projecting upper end, a unitary elongated bow and arrow supporting yoke comprising a quiver forming frame at one end thereof, and a pair of laterally spaced cradle arms at the other end thereof forming rests for bows, a pivot pin attaching said yoke intermediate said frame and arms to said end of the staff in straddling relation thereto, said yoke being swingable on said pivot pin to engage said frame with said staff and position said yoke in offset parallel relation to the staff when not in use, said yoke being swingable from parallel relation to the staff into horizontal position for holding arrows in said frame and bows on said arms, and a stop on said staff engageable by said yoke to establish the horizontal position of the yoke.

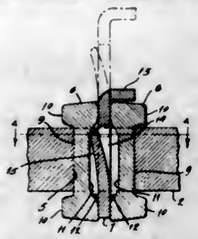
2,593,790

RAILWAY CAR DRAFT KEY RETAINER

Frank H. Pietzsch, Clayton, Mo., assignor to Western Railway Equipment Company, St. Louis, Mo., a corporation of Missouri

Application June 14, 1948, Serial No. 32,962

2 Claims. (Cl. 85—5)



1. A retainer for a railway draft key comprising two side members adapted to be mounted in spaced side by side relation in an opening through said draft key and having enlarged end portions all of which are identical, and an intermediate plate member having an enlarged head at one end and insertable in said opening between the opposing inner sides of said side members for holding them in spaced relation in said opening with their enlarged end portions in overlapping relation to said draft key at the ends of said opening, each of said side members having an elongated groove in its inner side that extends the greater portion of the length thereof and said plate member being slit to form integral therewith an elongated spring finger that normally inclines outwardly from one side of said plate member toward said one end thereof and seats in the elongated groove in the side member located on said side of said plate member, whereby said plate member is adapted to be inserted between said side members from either end thereof and positioned with its spring finger seated in the longitudinal groove of either side member.

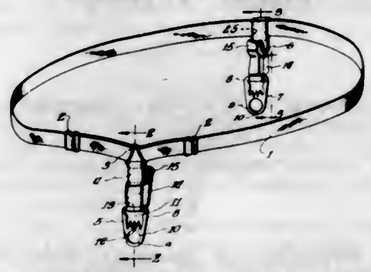
2,593,791

SANITARY BELT

Eva V. Pitton, Denver, Colo., assignor to International Cellucotton Products Company, Chicago, Ill., a corporation of Delaware

Application November 3, 1950, Serial No. 193,972

5 Claims. (Cl. 128—291)



1. A sanitary belt having a depending buckle through which a sanitary napkin tab is adapted to be passed for anchorage of one end of the napkin, a sleeve slidably associated with said buckle and movable to and from a position surrounding said buckle, the entire sleeve being slidable as a unit relative to said associated buckle, and means for preventing removal of said sleeve from the belt.

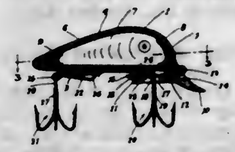
2,593,792

FISH LURE

Laurence L. Reckler, Sparks, Nev.

Application August 7, 1948, Serial No. 43,110

5 Claims. (Cl. 43—42.47)



1. An artificial fish lure including an elongated body, a downwardly inclined scoop projecting forward from the front end of the body adjacent the bottom thereof, an attachment block projecting rearward from the scoop, means securing the attachment block in substantially matching and depending relation to the bottom of said body, a longitudinal wire rod extending lengthwise into the attachment block from the front of the scoop, an exposed, line attachment eye on the front end of the wire rod, releasable means anchoring the wire rod against relative forward sliding in and removal from the attachment block, said block having a downwardly opening recess intermediate its ends, the wire rod extending across the recess below the body, and a hook depending from the recess, having an eye through which the wire rod passes in said recess.

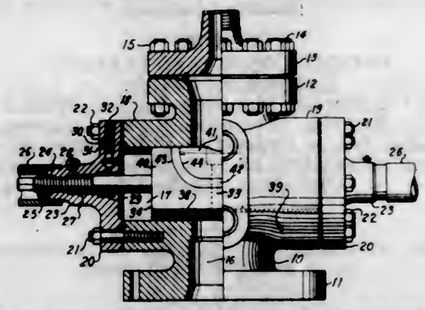
2,593,793

RAM-TYPE TUBING HEAD

Laurence L. Rector, Fort Worth, Tex.

Application April 21, 1947, Serial No. 742,852

9 Claims. (Cl. 251—55)



3. A tubing head ram including, a non-rotatable cylindrical body comprising a lower section occuping the entire length of the body and an upper section occupying the inner upper corner portion of said body, the sections having opposing upwardly curved surfaces thereacross extending from the inner end of the body to the top thereof, a broad pad-like elastic packing disposed between and across the curved surfaces of the ram sections exposed along its entire edge portions, the free ends of the sections having exposed upright grooves intersected by one end of said packing, and an attachment between the upper and lower sections loosely engaging the upper section to permit independent movement of the upper section longitudinally of the body.

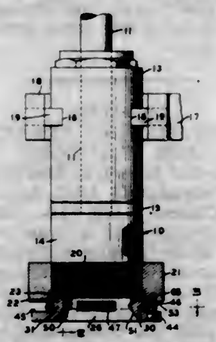
2,593,794

ROTATABLE CAP APPLYING CHUCK WITH CAP GRIPPING HELICAL SPRING

Manuel S. Resina, Brooklyn, N. Y., Rosa Resina, executrix of said Manuel S. Resina, deceased, assignor to Resina Automatic Machinery Co. Inc., Brooklyn, N. Y., a corporation of New York

Application July 22, 1947, Serial No. 762,723

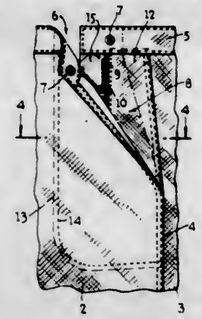
3 Claims. (Cl. 226—88)



1. In a machine of the character described, a rotating cap applying chuck, said chuck compris-

ing: a body member having a socket formed therein including a cylindrical wall portion; said wall portion having an opening radiating outwardly from the wall surrounding the socket; cap gripping means located within said opening and having a portion thereof projected through said opening and into said socket; said means being of elongated shape in the form of a single helical spring and disposed so that the innermost surface thereof with respect to said body element is, in a normal position of said means tangential to an imaginary cylinder concentrically disposed with respect to the axis of rotation of the chuck and of a diameter less than the diameter of the cylindrical wall portion; said spring being detachably connected at its ends to said body member.

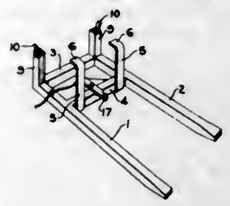
2,593,795
POCKET CONCEALED PLACKET CONSTRUCTION
Albert B. Rhoads, Meadville, Pa., and William F. Van Amburg, Oceanside, N. Y., assignors to Talon, Inc., a corporation of Pennsylvania
Application June 25, 1949, Serial No. 101,302
9 Claims. (Cl. 2—235)



1. In a garment of the class described having front and rear sections, a waistband to which said sections are attached and being open at one side of said garment, a pocket suspended from said waist band and opening rearwardly with the rear edge thereof attached to the front section along the joining edges of said front and rear sections, a slit in the inner wall of said pocket opposite the opening in said waistband so as to be concealed by the outer wall of said pocket, a slide fastener attached to the side edges of said slit so as to provide a concealed placket, and means attaching the front edge of said pocket to said front section so that the front edge of the pocket is anchored thereto whereby the walls of said pocket are prevented from being displaced and pulled out through the pocket opening from behind the front section when the garment is in use.

2,593,796
LOAD-SUPPORTING ATTACHMENT FOR TRACTORS
John Raymond Riewerts, Davenport, Iowa
Application February 11, 1947, Serial No. 727,786
3 Claims. (Cl. 214—131)

1. An attachment for a tractor having elevating arms, hitch means connecting the rear ends of the arms, and power operated means for lifting said arms; the combination of load-supporting beams, cross-ties connecting the beams at one end, the beams and cross-ties constituting an assembly, hanger arms connected to the assembly to suspend it from the hitch means, said hanger arms having substantially horizontally extending arms to hook over the top of the hitch means, the assembly having upward extensions at its forward end for engagement with the tractor elevating arms to help in positioning the assembly when the elevating arms



are raised, and a load-receiving platform supported by the load-supporting arms, said platform having an upwardly extending framework at its forward end and braces extending rearwardly from the upper portion of the framework and connected to the lateral edges of the platform.

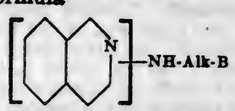
2,593,797
FLOWER MOUNTING
Albert A. Robbins, West Covina, Calif., assignor of one-tenth to Philip Subkow, Los Angeles, Calif.
Application December 7, 1945, Serial No. 633,565
2 Claims. (Cl. 47—55)



1. A flower corsage mounting, comprising a flower with the stem severed substantially at the calyx, an absorbent mass mounted adjacent and in contact with said severed portion, a wire passing through the absorbent mass and the calyx and having twisted ends, a perforated disc, a plurality of leaves mounted on said disc and disconnected from said flowers, said wire passing through said perforation, and means for attaching said disc with the leaves in contact with said absorbent mass.

2,593,798
AMINOALKYLAMINO ISOQUINOLINE COMPOUNDS
Richard A. Robinson, Morton Grove, Ill., assignor to G. D. Searle & Co., Skokie, Ill., a corporation of Illinois
No Drawing. Application May 22, 1947, Serial No. 749,873
20 Claims. (Cl. 260—286)

1. A member of the group consisting of an aminoalkylaminoisoquinoline and salts thereof, said aminoalkylaminoisoquinoline having the structural formula



wherein Alk is a lower alkylene radical and B is a di(lower alkyl) amino radical.

2,593,799
TOOL FOR CLEANING GREASE FITTINGS
William P. Russell, La Grange, Ill., assignor to John R. Ford, La Grange Park, Ill.
Application April 21, 1949, Serial No. 88,815
3 Claims. (Cl. 15—236)

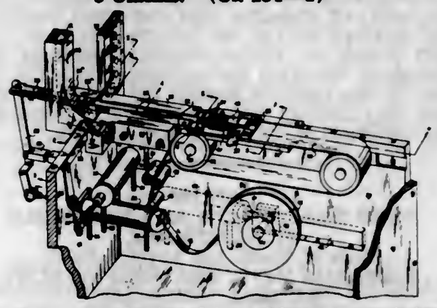


1. A grease fitting cleaner comprising a plurality of elongated cleaning blades longitudinally and radially arranged and having cam surfaces at one end and at the opposite end facing cleaning edges adapted to be forced over a grease fitting for cleaning the same and having facing recesses intermediate the ends thereof, an elongated supporting member tubular in one end portion and provided in its opposite end portion with a plurality of longitudinally extending radial slots each for receiving and laterally supporting one of the blades, a seat in the slotted end portion of the supporting member near the outer end portion thereof, a ball engaging the seat and also the recesses of the blades for pivotally mounting the blades in the supporting member with the cleaning edges exposed, and a spring pressed means in the tubular end portion of the supporting member in engagement with the cam surfaces of the blades for resiliently urging the cleaning edges toward each other.

2,593,800
PREPARATION OF 2-MERCAPTO-ARYLENE-THIAZOLE - 6 - SULPHONIC ACIDS AND SALTS THEREOF
Albert Sander, Essen, Germany, assignor to Th. Goldschmidt A. G., Essen, Germany, a German body corporate
No Drawing. Application September 13, 1949, Serial No. 115,567. In Germany October 1, 1948
8 Claims. (Cl. 260—299)

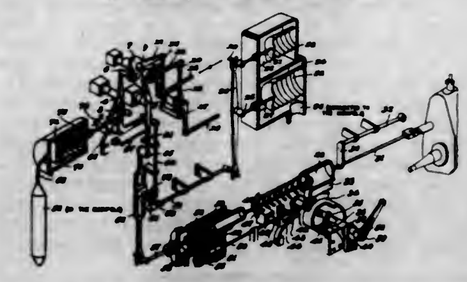
1. In a process for the preparation of 2-mercapto-arylene-thiazole - 6 - sulphonates, the step which comprises heating a material selected from the group consisting of 2-mercapto benzothiazole, the disulphide thereof, and 2-mercapto 5-alkyl benzothiazole, with fuming sulphuric acid at a temperature between 100° C. and 120° C.

2,593,801
APPARATUS FOR MAKING COMMUTATORS
Ronald A. Sauer, Cleveland, Ohio
Application June 15, 1946, Serial No. 33,039
5 Claims. (Cl. 154—1)



1. In an apparatus for making commutators, a supporting frame, a longitudinally extending guideway carried thereby, means for successively positioning in said guideway insulating segments extending transversely of the guideway, means for inserting copper segments into said guideway in a similar position and with the brush engaging surface thereof lowermost, means for moving the inserted segments in a longitudinal series longitudinally of the guideway, movable stop means carried by said frame and having a portion located at one end of the guideway and against which the leading segment of said series engages, means for guiding a strip of adhesive material adapted to be connected to said movable stop means so that a length of said material forms a continuation of the base of said guideway, wherefore said advancing series of segments will move onto said strip, and means for pressing said segments firmly into contact with said strip.

2,593,802
FUEL FLOW REGULATOR FOR SUPERCHARGED AIRCRAFT ENGINES
Désiré Schmitt, Saint-Maur, France, assignor to "Ateliers de Constructions Lavalette," Saint-Ouen, France, a French corporation
Application April 19, 1946, Serial No. 21,947
In France April 18, 1947
7 Claims. (Cl. 123—103)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

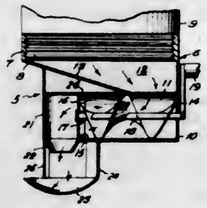


1. In a fuel flow regulator for supercharged aircraft engines, a fuel supply, a first fork carrying rod, a second fork carrying rod, means for moving the first rod as a function of the intake and barometric pressures, means for moving the second rod as a function of the intake temperature and of the adjustment of the richness of the fuel mixture, means for moving said rods perpendicularly to one another, a lever arm, means for causing the simultaneous movements of said two rods to act on said lever arm, an auxiliary arm controlled by said lever arm, means for controlling a fuel supply by the displacement of said auxiliary arm so that said first rod causes motions of said controlling means proportional to its own motions, in case said second rod remains motionless and that, similarly, said second rod motions of said controlling means in inverse proportion to its own motions when said first rod remains motionless, whereby the simultaneous movement of said two rods ensures a fuel supply to the aircraft engine as a function of the barometric and intake pressures, and of the intake temperature.

2,593,803
DISPENSING ATTACHMENT FOR CONTAINERS
John D. Schofield, New York, N. Y.
Application May 20, 1949, Serial No. 94,323
1 Claim. (Cl. 222—189)

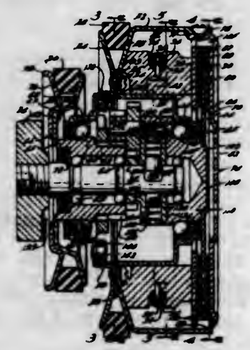
A portable dispensing and measuring device comprising a container for a finely divided ma-

terial to be dispensed and measured, a body member having an open end detachably connected to an open end of the container and supported by the container and therebeneath when the container is in an inverted position, said body member including a conduit disposed beneath and spaced from the open end of the container, the axis of the conduit being disposed at a right angle to the axis of the container, an intermediate portion of the body member defining a passage between the container and one end only of the conduit through which the material is conveyed by gravity to the conduit, the opposite discharge end of the conduit having a foraminous closure, a manually actuated screw



conveyor disposed in the conduit for conveying the material therethrough toward said discharge end and for forcing the material through said closure to eject it therefrom in a finely divided form, a chute forming a part of the body member into which said discharge end opens, said chute having a downwardly opening discharge end, and a measuring spoon having a flat rim secured to and rigidly supported by the body member beneath the discharge end of the chute for receiving and measuring the material dispensed from the chute, the flat rim being parallel to the screw conveyor and facing the chute, said chute being disposed perpendicular to the axis of said conduit and to the plane of the measure.

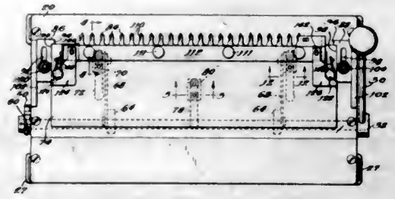
2,593,804
TRANSMISSION
Lawrence A. Schott, Detroit, Mich.
Application July 16, 1949, Serial No. 105,104
29 Claims. (Cl. 192—3.6)



1. An automatic transmission comprising a casing structure including a partition defining substantially concentric inner and outer chambers, automatic clutch means including a part drivably connected to said casing, clutch actuating means housed at least partly within one of said chambers, torque converting transmission mechanism housed at least partly within the other chamber but connected in a driving series with said automatic clutch means, a driving part and a drivable part, one such part being operatively connected to the casing and the other part to said mechanism, and means also housed at least partly within said other chamber and including a speed responsive member for varying the torque ratio of said mechanism.

3. In an automatic transmission construction, a planetary system including a rotatable planet carrier, a planet gear cluster including planet gears of different diameters orbitally revoluble by the carrier, a driven sun gear meshing with one of the planet gears of said cluster, a reaction sun gear meshing with another planet gear of said cluster, a brake for preventing unwanted rotation of the reaction sun gear, and a centrifugal clutch element responsive to the rate of rotation of said reaction sun gear and operatively interengageable with said reaction sun gear and said planet carrier to lock said reaction sun gear and said planet carrier together and thereby to lock up said planetary system.

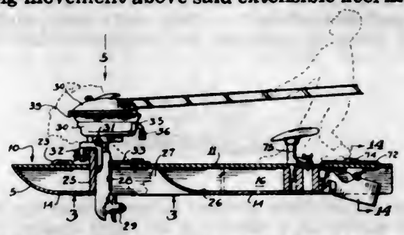
2,593,805
PLASTIC BINDING MACHINE
Isidore Spinner and Harold W. Dahly, Chicago, Ill., assignors to Plastic Binding Corporation, Chicago, Ill., a corporation of Delaware
Application September 13, 1948, Serial No. 49,084
22 Claims. (Cl. 11—1)



1. In a binding machine, a base, a carriage slidable in one direction with respect to the base, a holding means adapted to fix the position of a binder having curled fingers extending therefrom, the direction of motion of the carriage being toward and away from said holding means, a plurality of hooks movably mounted on the carriage, each hook having a shank extending toward the holding means and a hook portion extending along a line parallel with the holding means, a cam member mounted upon said carriage and coupled to said hooks, said hooks being spring-biased to a position adapted to engage the curled fingers, and a stop member mounted upon the base and engaging said cam upon motion of the carriage toward the holding means to move said hooks to finger-releasing positions and thereafter engaging the carriage to stop the motion of the carriage toward the holding means, said stop member being adjustable in position in the direction of motion of the carriage.

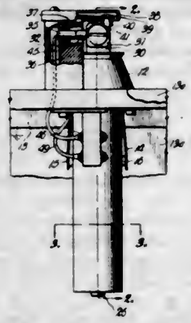
2,593,806
SURF BOARD WITH AN EXTENSIBLE KEEL MEMBER
Doty M. Steele, Los Angeles, Calif.
Application May 7, 1949, Serial No. 91,957
6 Claims. (Cl. 9—11)

1. In a surf board, a hull, an extensible keel member pivotally mounted for vertical swinging movement in the rear portion of said hull and a substantially triangular member arranged for sliding movement above said extensible keel mem-



ber and bearing upon the upper forward corner thereof for raising and lowering same.

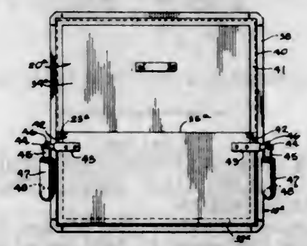
2,593,807
APPARATUS FOR TESTING MATERIALS
Frederick W. Stein, Atchison, Kans.
Application February 28, 1951, Serial No. 213,157
23 Claims. (Cl. 175—183)



1. In a cell for determining the electrical characteristics of materials, an outer tube of conducting material grounded to and suspended from a grounded support of conducting material, an inner tube of conducting material concentrically positioned within the outer tube, upper and lower insulating members adapted to hold the tubes in spaced apart relation, a first post of conducting material secured to and extending from said upper insulating disk in alignment with and insulated from said inner tube, a latching arm of conducting material secured laterally to the free end of said first post, a stationary keeper post of conducting material grounded and secured to said grounded support, a first electrical contact mounted on said latching arm and insulated therefrom, a second electrical contact mounted on said keeper and insulated therefrom, said first and second electrical contacts being engaged when said latching arm engages said keeper post, a grounding spring on said keeper post and adapted to engage the conducting surface of said latching arm when said latching arm engages said keeper post, said first post and said latching arm being drilled to enclose an insulated wire electrically connecting said inner tube with said first insulated contact, and said keeper post being drilled to enclose an insulated wire electrically connecting said second insulated contact with a terminal strip.

2,593,808
DRAFT CONTROL
William B. Stephenson, Fond du Lac, Wis.
Application January 14, 1948, Serial No. 2,241
2 Claims. (Cl. 236—45)

1. A draft control comprising, in combination, a substantially horizontal rectangular duct, a rectangular frame secured in the inner end of said duct and separately constructed of angle irons having outwardly extending legs defining a circumscribing flange adapted to be connected to a stack, a second rectangular frame secured in the outer end of said duct and defining an air inlet opening, said second frame being separately constructed of angle irons having inwardly extending legs defining a flange in a common plane about said opening, a one-piece rectangular damper plate supported in said second frame for pivotal movement about a generally horizontal axis and larger in dimensions than said opening so as to overlap at its marginal edges with said last mentioned flange, said axis being located below and parallel to the horizontal center line of said second frame and damper plate and between the upper and lower edges of said plate and inwardly of the outer face of said

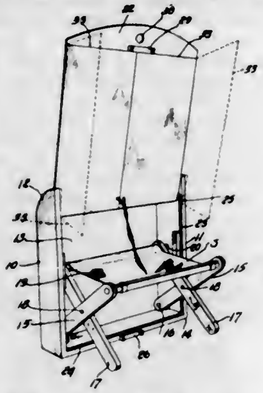


second frame, the upper and lower portions of said plate respectively at opposite sides of the axis being bent into laterally offset relation with respect to each other by an amount substantially equal to the thickness of said angle iron legs to locate the upper portion inwardly of said last mentioned flange and the lower portion outwardly of said last mentioned flange, and being adapted to overlap and engage respectively the inner and outer margins of said last mentioned flange when said plate is in closed position, and adjustable counterbalancing means fixed on said lower portion of said plate and located entirely above the bottom edge of said plate, and comprising a weight adjustable into selected position tending either to maintain said plate in abutting engagement with said margins or to maintain said plate away from said margins in partially open position.

2,593,809
FISHERMAN'S ICE SLED
William E. Stoddard and Gerald W. Kelly, Saginaw, Mich.
Application June 20, 1949, Serial No. 100,198
2 Claims. (Cl. 160—127)

1. A sled structure comprising spaced-apart side walls having upwardly rounded front ends, a rear wall connecting the side walls, and a bottom panel secured to the lower edges of the side and back walls respectively to form an open, box-like hollow structure, a foldable seat mounted in said structure and including pairs of pivotally connected legs, the lower end of one leg of each pair of legs being pivotally connected to the side walls of the sled, a flexible strip connecting the upper ends of the legs, said foldable seat being foldable within the marginal limits of the sled structure, connecting grooves in the upper edges of the side walls and back wall respectively, a top panel slidably mounted in said grooves and normally forming a closure for the open top of said box-like structure, angularly disposed grooves of limited length provided in the side walls adjacent the front end of said sled, and opening into the

first-mentioned grooves, said angularly disposed grooves slidably accommodating the lower end



of the top panel and holding it in its raised position.

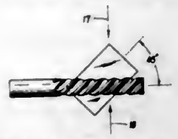
2,593,810
MEANS FOR ILLUMINATING THE DIAL OF A MANUALLY SET AUTOMATIC TRANSMISSION
Edward J. Sullivan, Des Moines, Iowa
Application September 29, 1949, Serial No. 118,505
2 Claims. (Cl. 116—129)



1. In combination with a normally naturally lighted position indicating means for the manually moveable control lever of an automatic transmission, said indicating means having a fixed position dial and a pointer secured to the manually moveable control lever; said dial and said pointer in a spaced relation with respect to each other and said dial having a depression formed in its side nearer said pointer, an illuminating means comprising, an electrical illuminating unit secured in the depression in said dial, a means for connecting said electrical illuminating unit to a source of electrical energy at times, and a shield disposed across the opening of and spaced apart from the depression in said dial to direct rays from said electrical illuminating unit upwardly between said pointer and said dial to illuminate them both so that the position of the control lever may be known by visual reference to the relative position of said pointer to said dial though insufficient natural sunlight be available to make such a visual reference possible.

2,593,811
PROCESS OF MILLING FRANGIBLE MATERIAL
Frank Swinehart, Strongsville, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application November 22, 1946, Serial No. 711,613
2 Claims. (Cl. 90—11)

1. The process of milling a plate of frangible piezoelectric material which comprises the steps of: orienting the plate with respect to a spiral milling cutter so that the angle between the direction of the length dimension of the face of the plate being cut and the axis of the cutter plus the spiral angle of the said cutter is between about 85 and 95 degrees, rotating said cutter, and with said plate so oriented with respect to the cutter



effecting relative motion between said plate and said cutter in a direction at right angles to the axis of said milling cutter with said cutter in cutting engagement with said plate.

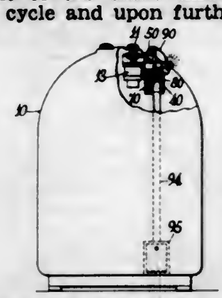
2,593,812
THERMOSTATIC CONTROL AND EXCESSIVE TEMPERATURE INDICATION MECHANISM
Charles Roger Turner, Enfield, Springfield Township, Montgomery County, Pa., assignor to Proctor Electric Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 30, 1947, Serial No. 783,018
9 Claims. (Cl. 177—311)



4. In an electrically-heated device, electrical heating means for producing desired temperatures in said device, thermomotive means responsive to said temperatures, a first switch element positionally controlled by said thermomotive means, manually-adjustable temperature-selecting means, a second switch element cooperatively associated with said first switch element and positionally controlled by said temperature selecting means, circuit means including said heating means and said switch elements in series, whereby the energization of said heating means is controlled by said thermomotive means according to the setting of said temperature-selecting means, a third switch element arranged cooperatively with said second switch element, means for positioning said third switch element in correspondence to the positioning of said first switch element, an indicating lamp, a resistor, and circuit connections controlled by said second and third switch elements for connecting said lamp, said resistor and said heating means in a series circuit whenever the temperature in said device exceeds the temperature range of operation corresponding to the setting of said temperature selecting means, said resistor substantially reducing the heating effect of said heating means during the series connection of the resistor and the heating means.

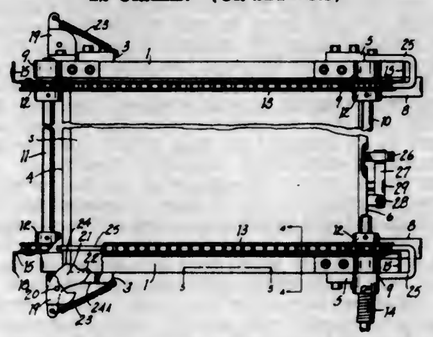
2,593,813
COIN ACTUATED SWITCH MECHANISM
Jacob G. Van Derwalker, Buffalo, N. Y.
Application December 15, 1947, Serial No. 791,697
7 Claims. (Cl. 161—1)

1. In an automatic washing machine wherein a concealed motor driven automatic cycle mechanism for controlling a main and other suitable electrical circuits has a shaft manually operable by an exposed dial to close the main circuit and thereby initiate the first phase of the automatic cycle and thereafter manually operable to initiate and to accelerate successive phases of the automatic cycle; the improvement which comprises, a switch means in the main circuit, a switch actuating means operable by movement of the mechanism shaft to open the switch upon completion of an automatic cycle, said actuating means holding said switch against closing during movement of the shaft through the first phase of the cycle and upon further movement



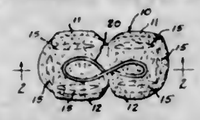
of the shaft releasing said switch for closing, and a coin actuatable means for closing the switch, whereby closing the switch closes the main circuit and thereby causes initiation and completion of the selected automatic cycle.

2,593,814
MACHINE FOR FEEDING SHEETS FROM THE TOP OF A STACK OF STIFF SHEETS
Robert J. Van Schie, Grand Rapids, Mich.
Application March 17, 1950, Serial No. 150,294
12 Claims. (Cl. 214—8.5)



1. A machine for successively and horizontally feeding the top sheet from a stack of sheets comprising, a frame having longitudinal side rails positioned to rest upon the side edges of said top sheet, front and rear cross members connecting said side rails and positioned to lie along the front and rear sides of said stack, said cross members having their upper surfaces spaced below the under surfaces of said side rails by a distance not substantially greater than the thickness of the individual sheets to be fed, depending side plates on the outsides of said side rails arranged to engage the sides of said stack and locate said frame thereover, said side plates forming the connection between said rails and said cross members, transversely extending shafts rotatably mounted above the front and rear of said frame and each having sprockets near each end thereof, a pair of feed chains trained around said sprockets with their lower reaches positioned above the bottom of said side rails, feed dogs secured in pairs to said chains and projecting below the lower reaches of the chains to the level of the top sheet of said stack, laterally outwardly turned feed fingers on the ends of said dogs and having sharpened leading edges arranged to project and be translated underneath said side rails, spring pressed support fingers carried at the rear of said side rails and swingable in lapped relationship with the bottoms of said rails into the space vacated by the rear edge of each successive top sheet to support the rear of said frame from each successive sheet, release tongues on said support fingers positioned to be engaged by said feed fingers to retract said support fingers prior to engagement of said feed fingers with said top sheet to permit the rear ends of said rails to drop onto each successive sheet, and a vertically adjustable roller positioned intermediate of the ends of the front cross member of said frame to engage and raise the middle portion of each successive top sheet as it is fed forwardly from said machine.

2,593,815
ARTIFICIAL TEETH
William J. Vidaver, Detroit, Mich.
Application March 6, 1951, Serial No. 214,117
3 Claims. (Cl. 32—8)



1. An artificial tooth comprising a tooth body having an occlusal surface of anatomical form provided with anatomically positioned occlusal cusps and a central valley surrounded by such cusps, and a metal insert therein having a uniform cross-section and having a thin sharp cutting edge exposed in the central valley only, remote from the cusps, said insert being disposed upright in the tooth body so as to be parallel to the axis of occlusion and extending substantially the full depth of the tooth body.

2,593,816
GOPHER TRAP
Peter C. Vigness, Zumbrota, Minn.
Application July 31, 1950, Serial No. 176,873
1 Claim. (Cl. 43—88)



In a gopher trap, the combination of a pair of coacting jaws having substantially semi-circular upper portions pivoted together at diametrically opposite sides thereof and defining a substantially circular opening, and sets of depending prongs secured to said upper portions and having inwardly angulated pointed lower extremities, first and second handles rigid with and projecting upwardly from the respective jaws, resilient means between said handles for urging the sets of prongs together, a locking arm pivoted intermediate the ends thereof to the first handle, a detent on the second handle in releasable engagement with the

upper end of said arm whereby to sustain said sets of prongs in an open position against the action of said resilient means, and a depressible trigger pivoted to the first handle and releasably engaging the lower end of said arm, said trigger having a disc-shaped actuating portion extending over said opening.

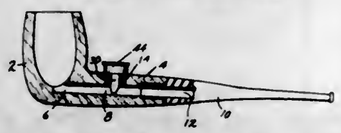
2,593,817
COLORED GLASS FIBER PRODUCT AND METHOD OF PRODUCING THE SAME
Jack H. Waggoner, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
No Drawing. Application June 1, 1949, Serial No. 96,613
7 Claims. (Cl. 117—46)

1. The method of coloring glass fibers comprising the steps of coating the fibers with a polysiloxane and an organo metallic compound capable of producing a colored reaction product upon decomposition at elevated temperature while on the glass fiber surfaces and present in the ratio of 1–5 parts by weight polysiloxane to 0.2–20 parts by weight organo metallic compound, and heating the coated fibers under conditions ranging from 1–2 seconds at 1200–1250° F. to 1–5 minutes at 600° F. to set the polysiloxane on the glass fiber surfaces and to drive off the organic component of the organo metallic compound and form the colored reaction product on the glass fiber surfaces.

2,593,818
COLORED GLASS FIBER PRODUCT AND METHOD OF PRODUCING THE SAME
Jack H. Waggoner, Newark, Ohio, assignor to Owens-Corning Fiberglas Corporation, a corporation of Delaware
No Drawing. Application June 1, 1949, Serial No. 96,614
11 Claims. (Cl. 117—46)

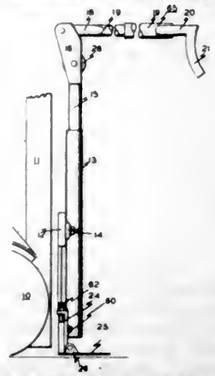
1. The method of coloring glass fibers comprising the steps of coating the glass fibers to form a layer thereon of colored metal oxides in finely divided form, then heat treating the coated fibers for a time ranging from 2 seconds at a temperature slightly below the fusion temperature for the glass composition of which the fibers are formed to about 5 minutes at 600° F. to set the colored oxides on the glass fiber surfaces.

2,593,819
SMOKING PIPE
Mark Ward, Opportunity, Wash.
Application March 29, 1948, Serial No. 17,760
2 Claims. (Cl. 131—198)



1. A smoking pipe including a stem having a bore and a smoke chamber forming part of the bore, a tube having a bore and mounted in the stem, the lower end of said tube extending into the chamber and the bore of the tube being open to the atmosphere, means including an interiorly threaded collar in the stem and nuts in the collar bored to receive the tube, and a cap on the tube supported by a nut for adjusting the tube with relation to the stem to vary the mixture of air and smoke passing from the chamber.

2,593,820
ATTACHMENT FOR INDUSTRIAL TRUCKS
Samuel Weiss, Portland, Oreg.
Application February 19, 1949, Serial No. 77,420
2 Claims. (Cl. 214—66)



1. In an industrial truck of the character described, the combination of an end lift adapted to be tilted forwardly and rearwardly, an elevator frame in said end lift, and a load-handling attachment on said elevator frame, said load-handling attachment including a member extending upwardly substantially parallel to said end lift, a mounting for said member, said mounting secured to said elevator frame, said member slidable up and down in said mounting, a load-engaging top assembly extending forwardly from said member and lift and hingedly mounted on the top of said member for limited up and down swing with respect to said member, said top assembly adapted to extend over the top of an object to be handled by said truck and having downwardly-extending engaging means at its outer end to engage the top edge on the forward side of said object, an element mounted at the upper end of said member adapted to bear against the upper portion of the rear side of said object adjacent said lift when said top assembly is in place over said object, said element adapted to tip said object forwardly when said truck is moved slightly forwardly with said lift tipped forwardly, and a base plate centrally positioned at the bottom of said elevator frame, extending forwardly and hinged to said frame for limited up and down movement with respect to said frame, whereby, when said top assembly is in place over said object, with said lift tilted forwardly, the lowering of said elevator frame until said base plate rests on the ground, followed by a slight forward movement of said truck, will cause said object to be tilted forwardly by said element and said base plate to be positioned under said object, whereupon subsequent rearward tilting of said lift will result in said object being positioned entirely on said attachment.

2,593,821
MOUTHPIECE
Edward Welch, Valley Falls, R. I.
Application June 2, 1950, Serial No. 165,719
3 Claims. (Cl. 128—136)



1. A mouthpiece comprising a sheet rubber portion adapted to cover the upper teeth and

gums, and means for releasably locking said portion over the teeth, said means including a wire loop at each inner end of said portion adapted to snap around the rear teeth, and a U-shaped plastic plate member attached to one end of each wire loop and adapted to abut the roof of the mouth.

2,593,822
OAR ASSEMBLY
Arnold R. Wendt and Johannes Kosten, Grand Rapids, Mich.
Application September 9, 1946, Serial No. 695,580
9 Claims. (Cl. 9—25)



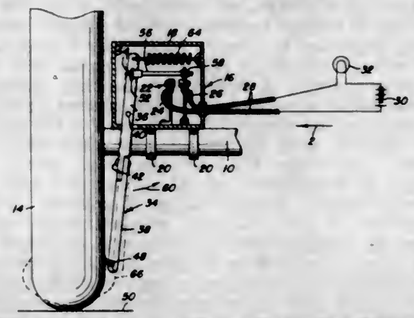
1. An oar assembly comprising a pair of oars, row locks to which said oars are pivotally connected, a pair of horizontally swingable oar supporting arms for connection to the opposite sides of a boat, each arm at one end thereof having a downwardly projecting spindle for horizontally swingable connection of the arm to a boat, each arm at the opposite end thereof having an upwardly projecting member provided with a vertically elongated socket for horizontally swingable connection of the row lock to the arm, a handle bar provided with a central grip, and universal joints connecting the ends of the handle bar to the inner ends of the oars between said row locks, whereby said oars may be simultaneously actuated from the handle bar and selectively tilted to non-operative position by tilting the handle bar.

2,593,823
BIT WITH INTERCHANGEABLE BLADE
Harry C. Wilson, Sherman Oaks, Calif., assignor to Robert H. Clark, Los Angeles, Calif.
Application December 11, 1946, Serial No. 715,424
5 Claims. (Cl. 145—126)



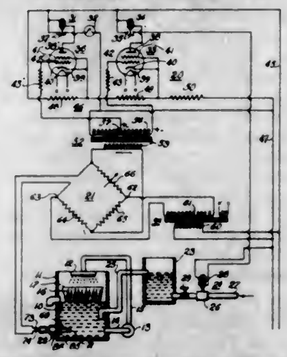
1. A bit for boring a hole including, an elongate shank, a substantially flat disc-shaped cutter head having a depending blade portion, a head carrier projecting from one end of the shank, a feed screw projecting from the carrier, and means whereby the head is releasably retained on the carrier in a plane inclined relative to a plane normal to the longitudinal axis of the shank, the top side of the head having a flat and smooth portion adapted to act on cuttings in the bore as the bit advances to discharge cuttings from the bore.

2,593,824
TIRE DEFLATION RESPONSIVE SWITCH
Ancil A. Wilson, San Bernardino, Calif.
Application November 16, 1949, Serial No. 127,680
1 Claim. (Cl. 200—58)



In a vehicle, an axle and a rotatable wheel including a pneumatic tire rotatably mounted on the axle, a housing mounted on the axle adjacent the wheel, an elongated switch actuating arm pivotally mounted within the housing for movement towards and away from the tire, said arm projecting downwardly from the housing and terminating adjacent one side of the pneumatic tire, a fixed electrical contact in the housing and a second electrical contact in the housing movable towards and away from the fixed contact in the plane of movement of the arm, a link disposed entirely within the housing connecting the arm and the second contact to move the latter upon movement of the arm, and spring means in the housing for biasing said contacts apart.

2,593,825
CONDUCTIVITY CONTROLLED DISPENSER
Kurt Albrecht, Pleasant Hills Borough, Pa., assignor to Hall Laboratories, Inc., Pittsburgh, Pa., a corporation of Pennsylvania
Application September 29, 1948, Serial No. 51,664
9 Claims. (Cl. 137—78)



1. A dispenser for feeding chemical to an aqueous solution in amounts sufficient to maintain a predetermined concentration of said chemical therein comprising a gas filled space current tube having plate and grid circuits adapted for connection to a source of alternating current voltage, said tube being normally biased to zero plate current but passing current when the grid voltage exceeds the trip voltage thereof, a Wheatstone bridge having in one of its branches a conductivity cell adapted to be immersed in said aqueous solution, the resistance to current flow through the cell varying with the concentration of water-soluble chem-

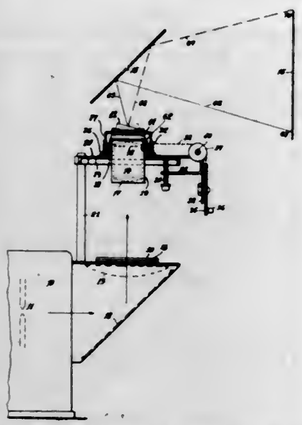
ical therein, said bridge having input terminals disposed for connection to a source of alternating current voltage, means connected to the output voltage terminals of said bridge for amplifying said output voltage and supplying the same to said grid circuit in accordance with the direction of bridge unbalance, said output voltage being amplified to a value materially higher than the voltage normally required to cause the tube to pass current, a feeder for feeding chemical to the solution to be controlled, means actuated in response to current flow in said plate circuit for causing said feeder to feed chemical, the feeder operating to feed chemical when the bridge is unbalanced in one direction and the output voltage thereof is of a polarity corresponding to the solution concentration being below a predetermined value and to shut off feed when the bridge is unbalanced in the opposite direction and the output voltage thereof is of a polarity corresponding to the solution concentration being above said predetermined value and means responsive to an output voltage of said bridge corresponding to a predetermined low chemical concentration in said aqueous solution for indicating that such low concentration has been reached.

2,593,826

STEREOSCOPIC ROTATOR FOR ROTATING STEREOSCOPIC PICTURES

Harry S. Alexander, Meadville, Pa., assignor to Keystone View Company, Meadville, Pa., a corporation of Pennsylvania

Application November 16, 1949, Serial No. 127,687
1 Claim. (Cl. 128—76.5)



A unitary stereoscopic image rotator attachment of the character described comprising a base having a view opening, a circular bearing on top of the base surrounding said view opening, a prism carrier rotatably mounted upon said circular bearing, said prism carrier having a circular groove, a deviating prism mounted in said prism carrier in optical alinement with said view opening, said base having bracket means extending to one side of said view opening, mechanism in said bracket means for rotating said prism carrier comprising a grooved hand wheel, an operating cable extending from said wheel to the said circular groove in the prism carrier, a knob for rotating said hand wheel and a screw carried by said bracket means for detachably securing the said rotator to an optical projection apparatus with said view opening and prism in optical operative alinement with the projection axis of said apparatus.

2,593,827

METHOD OF CASTING SHEETS OF POLYMERIZED α-CHLOROACRYLIC ACID ESTERS

Harry D. Anspon, Easton, and Frank E. Pschorr, Bethlehem, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 7, 1950, Serial No. 194,576
3 Claims. (Cl. 18—58)

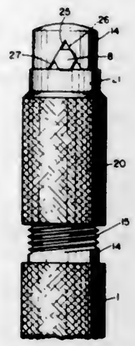
1. In the production of polymer sheets by thermal polymerization of a member of the group consisting of monomeric α-chloroacrylic acid, α-chloroacrylonitrile, α-chloroacrylamide and esters of α-chloroacrylic acid, between glass mold plates interconnected by a flexible edge closure and subject to formation of a polymer lip at the edge of the mold plates, said monomer containing an agent which reduces the adhesion of the resulting polymer toward glass, the improvement which comprises removing said mold plates from the polymer sheet when the latter has cooled to a temperature 30 to 40° C. below its initial heat distortion temperature, after completing the polymerization at a higher temperature.

2,593,828

HANDLE-CONTAINER FOR DIFFERENT SIZE HEXAGONAL WRENCHES

Ralph G. Arey, Brockton, Mass., assignor to Ward Machine Company, Inc., Brockton, Mass., a corporation of Massachusetts

Application February 10, 1950, Serial No. 143,430
1 Claim. (Cl. 81—177)



As a new article of manufacture, and adjustable hex wrench of the kind described, comprising a handle with a hollow portion opening at one end, a cap closing said end, the opposite end being provided with a wrench-receiving aperture extending transversely therethrough, said wrench-receiving aperture being formed by two planar sidewalls meeting at a sixty-degree angle and forming an apex directed toward said opposite end, an intermediate portion of said handle adjacent said aperture being provided with screw threads, a sleeve nut operable on said threaded portion and having one end overlapping said opening so as to provide a transverse wall adjustable with respect to said apex, said two planar sidewalls and said transverse wall forming a triangular shaped opening in which any one of different size hexagonal wrenches can be clamped, upon rotation of said sleeve nut in a direction to reduce the size of said triangular opening.

2,593,829

ELECTRICAL CAPACITOR AND FOIL THEREFOR

Hanns Arledter, Koln-Kalk, and Rudolf Engelhardt, Leverkusen-Bayerwerk, Germany, assignors to Farbenfabriken Bayer, Leverkusen, Germany

Application May 24, 1949, Serial No. 95,002
In Germany January 13, 1949
8 Claims. (Cl. 175—41)

8. A capacitor comprising a metal core having at least one foil wound about it, said foil consisting of a metal foil element coated at least on one side with at least one layer of dielectric plastic firmly adhering thereto consisting of the reaction product of a polyisocyanate and an organic polyhydroxy compound, a second metallic layer being superimposed on and firmly adhering to said plastic layer, said metal foil element being positioned in electrical contact with said metal core, and at least one electrode positioned in electrical contact with said second metallic layer.

2,593,830

LIQUID SAMPLER

Harry E. Baker, Seattle, Wash.

Application February 21, 1948, Serial No. 10,149
7 Claims. (Cl. 73—425.4)



1. In a liquid-sampling instrument for use in a tank to determine the level of a bottom liquid having a specific gravity higher than that of a principal body of liquid contained in the tank, a casing open at the head end and providing an admission opening at its lower end, a closure valve for said admission opening, means releasable by contact of the instrument with the floor of the tank for holding the valve in a fully open position, and means made responsive to a valve-releasing activation of the first said means and functioning only while the instrument rests upon the floor of the tank for holding the valve in a predetermined partially open position.

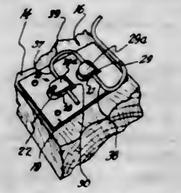
2,593,831

FASTENING MEANS FOR THE ENDS OF SPRING MEMBERS USED IN FURNITURE AND THE LIKE

Albert M. Bank, Jersey City, N. J.

Application May 9, 1947, Serial No. 747,039
1 Claim. (Cl. 155—179)

Fastening means for the ends of zig-zag spring members, each spring member having an arched major portion intermediate its ends, said spring member being symmetrical in contour throughout its full length and each end constituting a U-shaped terminal, said U-shaped terminal extending outwardly and upwardly at an obtuse angle to the major portion of the spring whereby the angle defined constitutes a fulcrum so that in assembling the terminal may be pressed downwardly to increase the tension of the major portion of the spring, in combination with a bracket at each end of said spring member, each bracket comprising a base having means whereby it may be



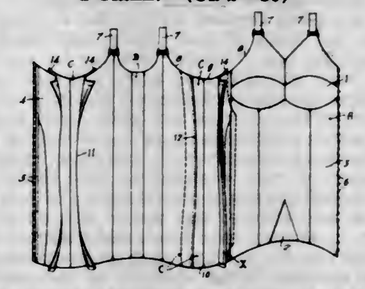
secured to a frame and also having bendable upturned tongues extending from the base, the free terminal portions of said tongues being coplanar with each other and parallel to the base of the bracket, said U-shaped terminal of said spring having its legs located respectively beneath said tongues when in its assembled condition.

2,593,832

ADJUSTABLE FOUNDATION GARMENT

Gaylord A. Barcley, South Orange, N. J.

Application August 18, 1949, Serial No. 110,914
1 Claim. (Cl. 2—30)



A foundation garment to encircle the body with the top edge of the garment below the shoulders and that is alterable to conform to the figure of the wearer, said garment comprising a front section, a back section and two relatively narrow opposite underarm sections, all of said sections extending from the top edge to the bottom edge of the garment and the top and bottom edges of the underarm sections being continuations of the top and bottom edges of the front and back sections, one longitudinal edge portion of each underarm section overlapping one longitudinal edge portion of the front section, and the other longitudinal edge portion of each underarm section overlapping one longitudinal edge portion of said back section, and a line of stitches detachably connecting together the edge portions that overlap each other and running along the longitudinal margin of one and inwardly of the corresponding margin of the other of said overlapping edge portions from the top edge to the bottom edge of the garment, said line of stitches being removable at any point between the top edge and the bottom edge of the garment, the margins of the edge portions that overlap each other being shaped and spaced apart girthwise of the garment and one thereof extending beyond said line of stitches and constituting a tab running from the top edge to the bottom edge of the garment to provide for adjustment of said overlapping edge portions relatively to each other longitudinally of the garment and also circum-

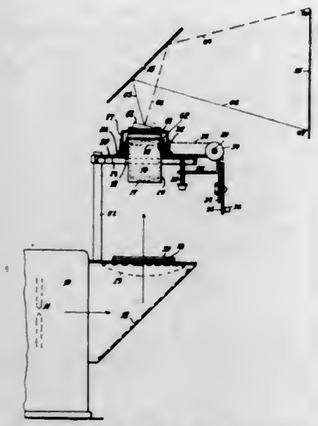
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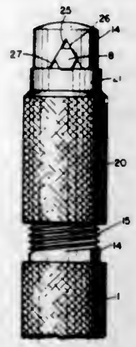
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2,593,830

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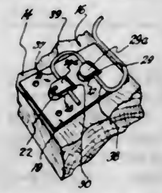
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Application May 9, 1947, Serial No. 747,039
1 Claim. (Cl. 155—179)

Fastening means for the ends of zig-zag spring members, each spring member having an arched major portion intermediate its ends, said spring member being symmetrical in contour throughout its full length and each end constituting a U-shaped terminal, said U-shaped terminal extending outwardly and upwardly at an obtuse angle to the major portion of the spring whereby the angle defined constitutes a fulcrum so that in assembling the terminal may be pressed downwardly to increase the tension of the major portion of the spring, in combination with a bracket at each end of said spring member, each bracket comprising a base having means whereby it may be



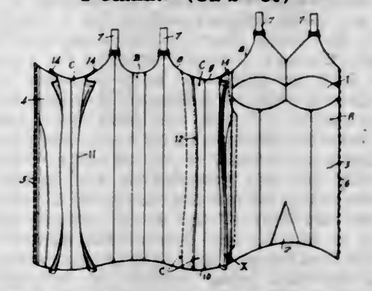
secured to a frame and also having bendable upturned tongues extending from the base, the free terminal portions of said tongues being coplanar with each other and parallel to the base of the bracket, said U-shaped terminal of said spring having its legs located respectively beneath said tongues when in its assembled condition.

2,593,832

ADJUSTABLE FOUNDATION GARMENT

Gaylord A. Barcley, South Orange, N. J.

Application August 18, 1949, Serial No. 110,914
1 Claim. (Cl. 2—30)



A foundation garment to encircle the body with the top edge of the garment below the shoulders and that is alterable to conform to the figure of the wearer, said garment comprising a front section, a back section and two relatively narrow opposite underarm sections, all of said sections extending from the top edge to the bottom edge of the garment and the top and bottom edges of the underarm sections being continuations of the top and bottom edges of the front and back sections, one longitudinal edge portion of each underarm section overlapping one longitudinal edge portion of the front section, and the other longitudinal edge portion of each underarm section overlapping one longitudinal edge portion of said back section, and a line of stitches detachably connecting together the edge portions that overlap each other and running along the longitudinal margin of one and inwardly of the corresponding margin of the other of said overlapping edge portions from the top edge to the bottom edge of the garment, said line of stitches being removable at any point between the top edge and the bottom edge of the garment, the margins of the edge portions that overlap each other being shaped and spaced apart girthwise of the garment and one thereof extending beyond said line of stitches and constituting a tab running from the top edge to the bottom edge of the garment to provide for adjustment of said overlapping edge portions relatively to each other longitudinally of the garment and also circum-

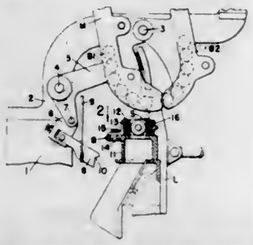
ferentially of the garment at any point along said line of stitches by merely removing some of the stitches at the desired zone of adjustment, moving the thus disconnected edge portions of the sections the required distance and direction relatively to each other and refastening the overlapping edge portions together in adjusted relation.

2,593,833

BUNTER FOR WEFT REPLENISHING LOOMS

Gabriel C. Beatrice, Shrewsbury, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application December 14, 1950, Serial No. 200,834
3 Claims. (Cl. 139—243)



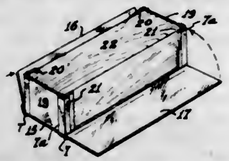
1. In a weft replenishing loom having a transferrer latch and a shuttle box having a horizontal box plate formed with a flat vertical surface on the front thereof extending lengthwise of the shuttle box, a bunter member for the latch formed with an elongated body provided with a flat surface on the back thereof abutting the flat vertical surface of said box plate, said member having a forwardly extending wedge shaped latch engaging part formed with an edge extending lengthwise of and parallel to said body, and means securing the ends of said body to said plate with one end only of the wedge shaped part in position to engage said latch, said bunter being reversible end for end and said means subsequent to said reversal being capable of securing the member to the box plate with the other end only of said wedge shaped part in position to engage said latch.

2,593,834

TRANSPARENT TRAYLIKE STRUCTURE

Frank David Bergstein, Cincinnati, Ohio

Application January 6, 1947, Serial No. 720,351
1 Claim. (Cl. 229—23)



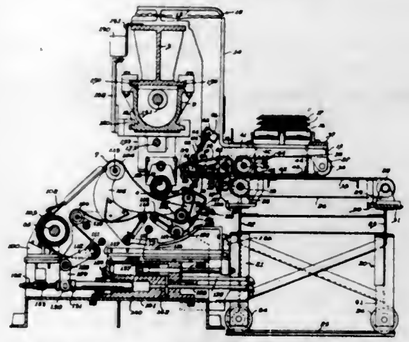
A self-sustaining box or tray assembled from three preformed units, each of said units consisting of a three-piece assembly in which each piece is a separate panel of non-scorable plastic sheeting and in which the panels of each assembly are hingedly articulated together along parallel lines of articulation by means of narrow strips of flexible material secured to marginal edge portions of contiguous panels, one of said preformed units constituting the bottom and opposite side walls of the box or tray, said side wall panels being folded at right angles to said bottom panel along the lines of hinged articulation therebetween as defined by the said strips of flexible material, the remaining two preformed units constituting the end wall panels of said box or tray and attachment panels for securing the end wall panels to said side wall panels, said end wall panels lying at right angles to said bottom and side wall panels with said attachment panels folded at right angles to said end wall panels along the lines of hinged articulation therebetween as defined by said narrow strips of flexible material, said attachment panels being secured in face-to-face relation to end portions of said side wall panels.

2,593,835

APPARATUS FOR FORMING TUBES

Florence C. Biggert, Jr., and Howard H. Talbot, Pittsburgh, Pa., assignors to United Engineering and Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application April 5, 1946, Serial No. 659,990
2 Claims. (Cl. 144—268)



1. A machine for forming tubes from sheets of wood veneer and the like, comprising a rotatable mandrel, a feeder having a plurality of upper and lower conveyor belts for engaging opposite faces of sheets and feeding them in sequence toward and to the mandrel, belts for rotating said mandrel and for wrapping the sheets in superposed layers upon it to form a tube, dogs located at the delivery end of said conveyor belts and movable to a position to engage each sheet and thereby to stop its movement toward said mandrel, and means coordinated with the rotation of the mandrel to move said dogs from sheet-engaging position.

2,593,836

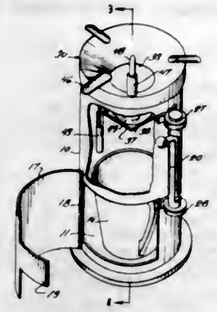
CLOSED RECEPTACLE FOR CIGARETTE ASH TRAYS

Otto H. Bock, Jacksonville, Fla.

Application May 10, 1949, Serial No. 92,433
2 Claims. (Cl. 232—43.2)

1. An ash receiver comprising a hollow, cylindrical housing, an ash tray supported on the upper end of said housing and having a substantially central opening therein, means carried by said tray closing said opening, manually operated means carried by said tray and engaging said means to move the latter away from said opening for dumping said tray, said ash tray comprising an outer annular flange of a size to surround said housing, a downwardly and inwardly inclined wall between said flange and said opening, and an inner cylindrical flange depending from said wall surrounding said opening, said inner flange having its end remote from said wall double beveled from a diameter of such inner flange

outwardly and toward said wall, said means closing said opening comprising a pair of substantially rectangular flaps underlying the beveled end of said inner flange with their inner edges abut-



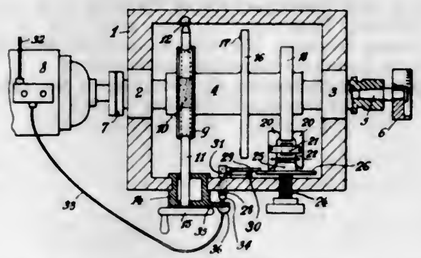
ting along said flange diameter and hinged at their outer edges to said flange, and weights connected to said flaps outwardly of the hinge connections between said flaps and said inner flange.

2,593,837

MOTOR AND BRAKE CONTROL

Heinrich Broschke, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany

Application July 6, 1950, Serial No. 172,284
In Germany October 10, 1949
2 Claims. (Cl. 192—2)



1. In a machine for marking scales on a work blank, a main operating shaft, an electric motor for rotating said shaft, a cable leading from said motor and containing a normally open starting circuit for the motor, a circuit closer on said machine, cooperating means on said cable and said circuit closer for closing said circuit, a clamping device on the machine for periodically clamping said main shaft in non-rotatable position, means in said clamping device automatically engaging said circuit closer to prevent closing of the circuit when the clamping device is operated and means for operating the latter.

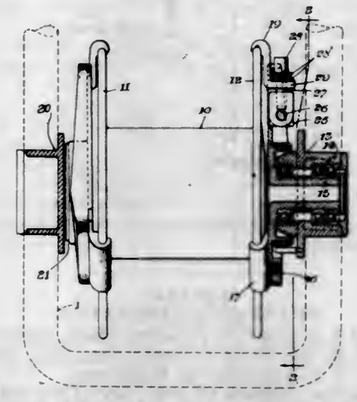
2,593,838

REEL CHUCK CRADLE FOR STRANDING MACHINES

Carl O. Bruestle, Metuchen, N. J., assignor to Synchro Machine Company, Perth Amboy, N. J., a corporation of New Jersey

Application January 9, 1951, Serial No. 205,180
5 Claims. (Cl. 57—59)

1. In a strand handling machine comprising a structure for carrying a plurality of wire spools, a cradle for a spool comprising bearings defining an axis for said cradle and a plurality of jaws placed about the axis of said cradle, said jaws including at least one movable jaw on either side



of the cradle adapted to receive a wire spool and grip the spool for a stranding operation.

2,593,839

DIAZOTYPE PHOTOPRINTING MATERIAL

Saul R. Buc, Northampton County, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application November 23, 1948, Serial No. 61,727
7 Claims. (Cl. 95—6)

1. Diazotype photoprinting material, comprising in a light sensitive layer, a light sensitive diazo component, and as a coupling component, a crystalline tetrameric condensation product of a m-polyhydric phenol with an equimolecular amount of an aldehyde having the formula RCHO, wherein R is a hydrocarbon radical having 1–6 carbon atoms.

2,593,840

m-PHTHALIMIDOMETHYL DERIVATIVES OF ANILINE, NITROBENZENE, AND NUCLEAR SUBSTITUTION PRODUCTS THEREOF

Saul R. Buc, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 30, 1949, Serial No. 136,165
12 Claims. (Cl. 260—326)

1. An m-phthalimidomethyl derivative of the class consisting of aniline and of nitrobenzene in which the two m-positions of the benzene nucleus are substituted by a phthalimidomethyl group and the remaining positions in the benzene ring are occupied by a substituent selected from the class consisting of hydrogen, halogen, hydroxy, lower alkyl, lower alkoxy, lower hydroxyalkyl, and monocyclic carbocyclic aralkyl and aryloxy groups.

2,593,841

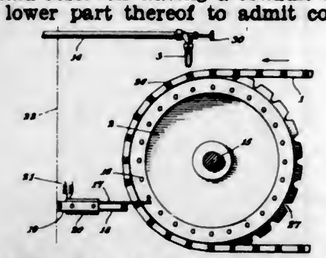
LUBRICATING APPARATUS

Algernon R. Burchsted, Ridgewood, N. J.

Application August 12, 1949, Serial No. 109,923
4 Claims. (Cl. 184—15)

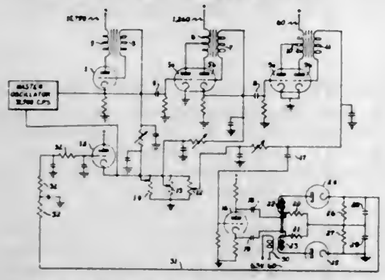
1. Lubricating apparatus comprising a reservoir, a nozzle coupled to the reservoir, a normally closed valve between the reservoir and the nozzle, and means comprising a rotatable member adjacent the nozzle for periodically opening said

valve, said reservoir having a conduit connected to the lower part thereof to admit compressed



air to agitate the contents and maintain a pressure thereon.

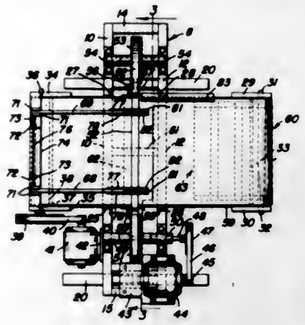
2,593,842
PHASE DISCRIMINATOR
Richard L. Campbell, Melrose, Mass., assignor to Allen B. Du Mont Laboratories, Inc., Passaic, N. J., a corporation of Delaware
Application August 13, 1947, Serial No. 768,366
2 Claims. (Cl. 250—27)



1. In a synchronizing generator, a phase discriminator circuit for comparing the output frequency of a first voltage wave to the frequency of another voltage wave, said discriminator comprising a pair of diodes, an input circuit for each of said diodes, each of said input circuits comprising a winding of a transformer in series with the plate cathode circuit of the rectifier, and a resistor in series with said transformer winding, said resistor forming a portion of a resistance-capacitance coupling circuit, means for applying said last named voltage to said transformer windings, said means comprising a primary winding to which said voltage is applied, said first-named winding being connected to apply the transformed voltage in opposite polarity to said rectifier tubes, means for applying the output voltage of the last of said dividers to said rectifier circuit, said last named means comprising a phase inverter having a pair of outputs, each of said outputs being connected to one of said resistors, a load circuit for each of said rectifier tubes, said load circuits being connected in series, and a low pass filter across the output of said phase discriminator.

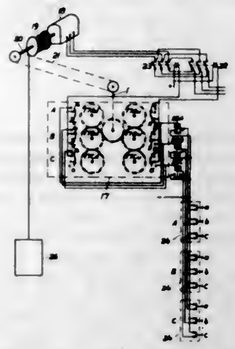
2,593,843
CRATE DISASSEMBLING AND SALVAGING MACHINE
Ernest E. Cannon, Lyford, Tex., assignor to Valley Products Corporation, Lyford, Tex., a corporation of Texas
Application December 5, 1949, Serial No. 131,148
7 Claims. (Cl. 29—68)

1. A crate disassembling and parts salvaging machine of the class shown and described comprising a fixed support, an endless crate conveyor belt mounted for operation on said support, said support including a table, said table having a transverse clearance groove, the upper run of said belt spanning said groove, means fixed on said support for forcibly deflecting slats, partly withdrawing the nails and loosening and opening up the slats one by one from the usual crate heads, for directing the loosened slats against



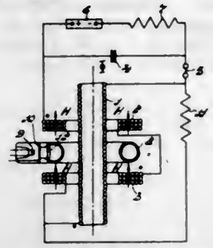
the belt and causing the belt to bend, recede into said groove, and powered saw means for sawing through the nails and completely detaching the slats from said heads, said saw means being coordinated with the first means for simultaneous coaction with the latter.

2,593,844
LEVELING DEVICE FOR MINE HOISTS AND OTHER ELEVATORS
Johan Eric Carlsson, Frans Landau, and Eugen Törnros, Vasteras, Sweden, assignors to Allmanna Svenska Elektriska Aktiebolaget, Vasteras, Sweden, a Swedish corporation
Application November 30, 1949, Serial No. 130,242
In Sweden December 1, 1948
4 Claims. (Cl. 187—29)



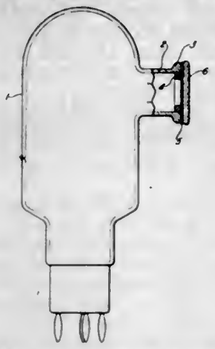
1. Control means for a mine hoist or other elevator, comprising contact devices for the control of an operating motor to accurately arrest the motion of the elevator cage at different levels after predetermined numbers of revolutions of the shaft of said motor, two parallel gear trains of different speed ratios, means for driving both said gear trains from the motor shaft, two rotating members driven at different predetermined speeds, one by each of said gear trains, and means whereby said contact devices are actuated by said rotary members to arrest the motion of the cage when the said rotary members are in a predetermined position in relation to each other.

2,593,845
APPARATUS FOR THE ACCELERATION OF ELECTRONS
Hendrik Brugt Gerhard Casimir, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee
Application November 22, 1946, Serial No. 711,679
In the Netherlands October 18, 1945
Section 1, Public Law 690, August 8, 1946.
Patent expires October 18, 1965
3 Claims. (Cl. 250—27)



1. An electron induction accelerator comprising an annular discharge tube providing a discharge path for electrons, a first air-cored inductance coil surrounded by said annular discharge tube for accelerating electrons, a second air-cored coil having two spaced apart portions on opposing sides and co-extensive with said discharge tube and coaxial therewith for accelerating and controlling the electrons, means to generate a high-frequency damped oscillatory current, and means to connect said coils to said generating means to excite said coils and generate fields which accelerate and control the electrons in said discharge path.

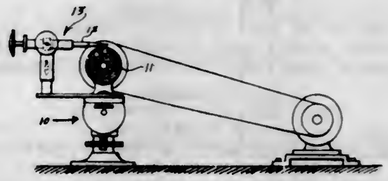
2,593,846
SEALED ENVELOPE AND METHOD OF MANUFACTURE
Basil Noel Clack, Wembley Park, England, assignor to General Electric Company, a corporation of New York
Application February 2, 1950, Serial No. 141,911
In Great Britain February 8, 1949
3 Claims. (Cl. 154—116)



1. The method of sealing a vitreous envelope having an opening therein which comprises fitting a solid annulus closely within said opening so that the outer surface of the annulus lies approximately flush with the outer marginal surface of the envelope around said opening, applying a thermoplastic, non-vitreous, organic adhesive to the said marginal surface, placing a vitreous disc-like closure member across said opening, liquefying the adhesive by heating and pressing the closure member against said marginal surface of the envelope so that the adhesive is drawn to the said annulus by surface tension to form a fillet thereat and to hermetically seal the closure member to the envelope.

3. A device of the class described comprising a vitreous envelope having therein an opening which is closed by a vitreous disc-like closure member hermetically sealed to the marginal surface of the envelope around said opening by a thermoplastic, non-vitreous, organic adhesive, and a solid annulus in said opening at the joint between said envelope and said closure member, said adhesive forming a fillet between said annulus and the adjacent surfaces of said closure member and envelope.

2,593,847
TOOLHOLDER
John Wesley Clark, Buffalo, Mo.
Application November 26, 1947, Serial No. 788,237
5 Claims. (Cl. 51—218)

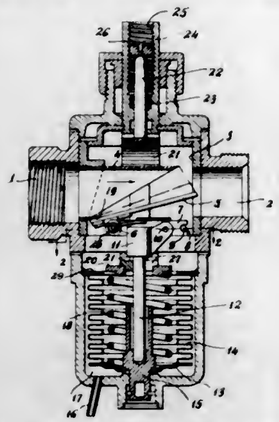


1. In a device for holding a watchmaker's tool against a sharpening surface, a vertical hollow post, a tube slidably mounted on the post, a hollow support on the free end of the tube disposed at right angles to the tube, a tool holder mounted within the hollow support for rotational movement therein, said hollow support having a slot intermediate the ends thereof, a boss on the tool holder extending through the slot, a screw threaded into the boss for securing the tool in the holder, said boss and slot permitting the holder to rotate 180 degrees to present different faces of the tool to the sharpening surface, and spring means within said hollow post and cooperating with said tube to urge the tube and tool holder away from the sharpening surface.

2,593,848
FLAP VALVE AUTOMATICALLY GUIDED BY A FEELING MEMBER
Mads Clausen, Nordborg, Denmark
Application February 12, 1947, Serial No. 727,998
In Denmark May 29, 1946
6 Claims. (Cl. 251—125)

1. A thermostatically controlled valve for controlling the flow of a liquid through a tube comprising a housing having diametrically opposed and axially aligned inlet and outlet openings therein, a rotatable bushing in said housing having diametrically opposed openings axially alignable with the housing openings, a tubular valve member carried by said bushing having its bore aligned with said inlet and outlet openings, said member having one end obliquely cut off to form an elliptical valve seat and the other end projecting into and secured to the wall of one of the bushing openings, a lever pivoted to said bushing on an axis transverse thereto, a flap valve pivotally connected to said lever on an axis parallel to said transverse axis at a point spaced from the rear end of said flap valve relatively to the direction of flow of the liquid through the tube, resilient means tending to maintain said valve in open position, movable actuating means in said

housing adapted to move said lever and thereby to move said flap from open to closed position,



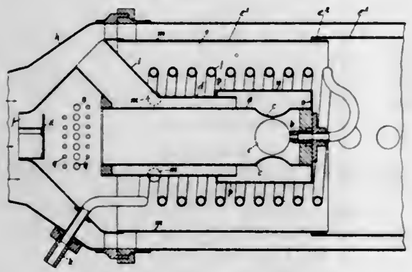
and means in said housing connected to said actuating means and movable in response to changes of fluid pressure within said housing.

2,593,849

LIQUID FUEL BURNER WITH DIVERSE AIR PATHS AND FUEL VAPORIZER

Albert Edward Clarke and Allan Kingdon North, Brierfield, Burnley, and Kenneth Hedley Holliday and John Stanley Clarke, Burnley, England, assignors to Joseph Lucas Limited, Birmingham, England

Application July 11, 1949, Serial No. 104,112
In Great Britain July 13, 1948
2 Claims. (Cl. 60—39.65)



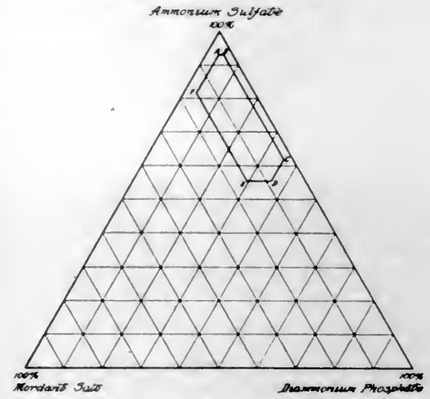
1. A liquid fuel burner comprising in combination, a liquid fuel vaporiser, a mixing tube having one end closed and the other open, a vapour injection nozzle mounted on the closed end of said mixing tube and connected to said vaporiser, said mixing tube being provided with air-admission apertures adjacent to said nozzles, a primary air tube surrounding said mixing tube and having at least one air entrance at the end remote from the closed end of said mixing tube, and an air-jacketed combustion chamber in which the primary air and mixing tubes are coaxially mounted, and which at the end adjacent to the air entrance of said primary air tube forms a principal combustion zone, the open end of said mixing tube being situated in said zone, and said fuel vaporiser being mounted in said combustion chamber around said primary and mixing tubes so that said vaporiser can be heated by gases from said principal combustion zone.

2,593,850

SINGLE-BATH CHROME DYEING PROCESSES AND COMPOSITIONS, INCLUDING AMMONIUM SULFATE AND DIAMMONIUM PHOSPHATE

William B. Coleman, Crete, Ill., and Gerald M. Coté, Wellesley, Mass., assignors to Victor Chemical Works, a corporation of Illinois

Application October 8, 1949, Serial No. 120,384
11 Claims. (Cl. 8—30)



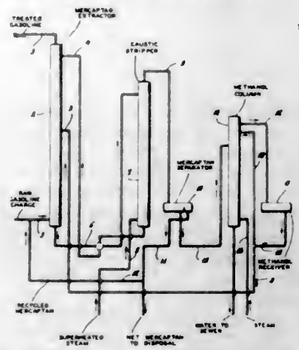
1. A dye bath assistant composition consisting of ammonium sulfate, diammonium phosphate and a chromium mordant compound selected from the group consisting of sodium chromate, sodium dichromate, ammonium chromate and ammonium dichromate, wherein the components are selected within the percentage range of 55.6 to 93.8 parts by weight ammonium sulfate, 3.0 to 36.0 parts by weight of diammonium phosphate, and 2.5 to 15.8 parts by weight of the mordant compound.

2,593,851

METHOD OF REMOVING MERCAPTANS FROM HYDROCARBONS

Ralph H. Cool, Lake Charles, La., assignor to Cities Service Refining Corp., Lake Charles, La., a corporation of Delaware

Application March 20, 1948, Serial No. 15,992
2 Claims. (Cl. 196—32)



1. In the process of treating a stream of hydrocarbon oils containing mercaptans with methanol and an aqueous solution of caustic soda to extract a major portion of the mercaptans therefrom, the steps of continuously removing methanol-caustic solution from contact with the hydrocarbon oil stream, separating mercaptans and dissolved hydrocarbons from the methanol and caustic solution, and recycling from about 50 to 90 per cent of the mercaptan and hydrocarbon mixture to the stream of hydrocarbon oils prior to treatment with methanol and caustic soda.

2,593,852

PENICILLIN AMIDES

Douglas E. Cooper, Syracuse, N. Y., assignor to Bristol Laboratories Inc., a corporation of New York

No Drawing. Application November 16, 1949, Serial No. 127,803
10 Claims. (Cl. 260—239.1)

7. An amide of penicillin and a compound of the formula R—NH_2, where R is a member selected from the group consisting of hydrogen, monocyclic cycloalkyl, di(lower)alkylamino(lower)alkyl, hydroxy(lower)alkyl, alpha - carboxy-(lower)alkyl, and beta-(sulfonic acid) (lower)-alkyl.

8. The process of reacting an anhydride of penicillin and a monocarboxylic acid with a compound of the formula R—NH_2, where R is a member selected from the group consisting of hydrogen, monocyclic cycloalkyl, di(lower)alkylamino(lower)alkyl, hydroxy(lower)alkyl, alpha-carboxy(lower)alkyl, and beta-(sulfonic acid) (lower)alkyl, to produce an amide of penicillin.

2,593,853

Δ^3-PYRROLINYL COMPOUNDS AND DERIVATIVES THEREOF

John William Copenhaver, Short Hills, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application October 18, 1949, Serial No. 122,140
12 Claims. (Cl. 260—313)

9. An N-aliphatic Δ^3-pyrrolinyl compound, wherein the nitrogen atom of the Δ^3-pyrroline radical is attached to a carbon atom of which at least one of the remaining valences is joined to carbon and the other remaining valences are joined to hydrogen.

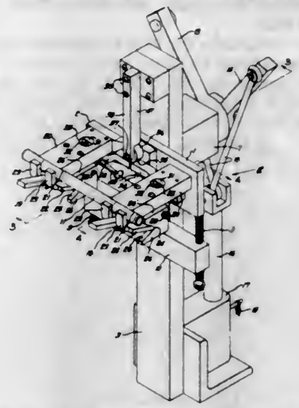
2,593,854

GLASS TUBE BENDING APPARATUS

Paul A. Dell, Highland Heights, Ohio, assignor to General Electric Company, a corporation of New York

Application April 10, 1951, Serial No. 220,148
5 Claims. (Cl. 49—7)

1. Glass tube bending apparatus comprising a support member, a pair of swing arms pivotally mounted on said support member to swing about a common horizontal pivot axis, said arms normally extending horizontally and oppositely away from each other, a pair of holders mounted one on each of said swing arms for gripping a glass tube and supporting it in a horizontal position extending transverse to and at least at the same elevation as the common pivot axis of said swing arms, means for heating and softening a zone of the tube adjacent the pivot axis of said arms, said holders being rotatably mounted on their respective swing arms for rotation about axes parallel to the common pivot axis of said swing arms, and means coacting with said holders to rotate them relative to and in the same direction as the swing movement of their respective swing arms during



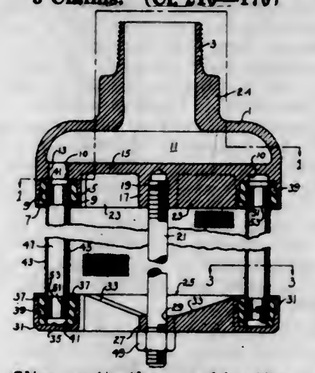
upward swinging movement of the latter to bend the glass tube.

2,593,855

CONCENTRIC FILTER UNIT

La Vern H. De Haven, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana

Application March 30, 1946, Serial No. 658,520
5 Claims. (Cl. 210—170)



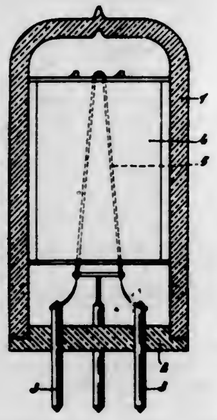
1. In a filter unit, the combination of a pair of heads disposed in axially spaced relation, an outlet in one head, a groove in each head, said grooves being complementary, a grommet, having a U-shaped annular channel, disposed in each of said grooves, a pair of concentric filter elements, said elements being mounted with their ends in the channels of the grommets, rings disposed between said elements at the ends thereof for forcing said elements toward the adjacent walls of the grommet and away from each other to sealingly engage the grommet with said filter elements, a separator disposed between said elements and extending vertically between the rings, supporting means fixed to one of the heads, means on the supporting means adapted to coact with the other head for forcing the heads toward the ends of said elements, said grooves being formed with inwardly converging walls to urge the grommet to sealingly engage said filter elements upon operation of the forcing means, means defining passages in the head which contains the outlet, and means defining passages in the corresponding grommet, said passages serving to connect the space between the elements with said outlet.

2,593,856

ELECTRIC DISCHARGE TUBE OF THE KIND COMPRISING AN INDIRECTLY HEATED CATHODE

Henricus Johannes de Weÿer, Eindhoven, Netherlands, assignor to Hartford National Bank and Trust Company, Hartford, Conn., as trustee

Application February 17, 1949, Serial No. 76,884
In the Netherlands March 15, 1948
4 Claims. (Cl. 313—331)



1. An electron discharge tube comprising an envelope having a bulb portion and a base portion, an electrode structure including an indirectly heated cathode body mounted in said bulb portion, an outer conductive sheath on said cathode body, a thin flexible heating wire in said sheath and having an end portion extending out of said sheath at an extremity thereof, and a mass of compressed pulverulent insulating material filling the space between said heating wire and said sheath at said extremity, a supply conductor positioned on said base portion, said thin flexible heating wire having a flexible flattened portion electrically connecting said supply conductor and the said extended end portion of said thin flexible heating wire.

2,593,857

DYNAMOELECTRIC MACHINE WITH STATOR CORE SECURED IN YOKE BY WELDED STUDS

Joseph J. De Windt and Edgar C. George, Cincinnati, Ohio, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application June 28, 1949, Serial No. 101,848
3 Claims. (Cl. 171—252)



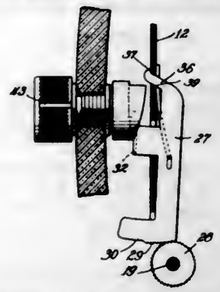
1. A dynamoelectric machine including a stator frame defining an open space for stator laminations and at least one aperture leading to said space, stator laminations positioned in said space of said frame, a steel stud positioned in each of said apertures, and fused metal between unfused portions of each of said studs and the periphery of said laminations integrally securing said studs with said laminations for securing said laminations in said frame.

2,593,858

CHART ADVANCING MECHANISM

William J. Dorsam, La Fayette, Louis A. Paine and Richard A. Road, West Lafayette, Ind., assignors to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois

Application February 8, 1947, Serial No. 727,360
7 Claims. (Cl. 74—122)



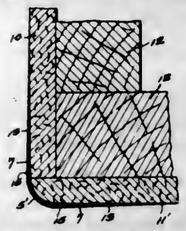
5. A combination of a base, a device carried by the base, a cover carried by the base and including a member carried by the cover, a ratchet wheel carried by the device and adapted to advance the device upon being turned, a ratchet actuator associated with the wheel to turn it when actuated, and means associated with the operating member on the cover for actuating the actuator, said actuator including tooth means arranged to turn the ratchet wheel upon actuation of the actuator and being relieved beyond the tooth means to make the actuator incapable of turning the ratchet wheel more than a predetermined amount, and said operating member and associated means having a throw substantially greater than is necessary to cause rotation of the ratchet wheel said predetermined amount, whereby considerable variation may be tolerated in the relative positioning of the cover and the actuator.

2,593,859

SHOULDER-BEAD FOR USE IN DRY WALL CONSTRUCTION

Arthur H. Dunlap, Seattle, Wash.

Application July 12, 1949, Serial No. 104,220
1 Claim. (Cl. 20—74)



In dry-wall construction, in combination: two sheets of wall-board placed angular to one another with an edge of one abutting an edge of the other to conjointly present an outside corner, means crowning said corner and comprised of a wide ribbon of flexible material and a complementing narrower strip of inflexible material centered upon and firmly cemented to the ribbon so as to have edge portions of the ribbon project laterally as wings well beyond each of the opposite side margins of the strip, said inflexible strip being pre-formed to a sectional shape conforming to the cross-sectional profile of the corner so that the strip closely fits the corner with the projecting wings in covering relation to adjacent portions of the wall-board lying at each side of said corner, and putty-like material investing the wings and also covering portions of the two wall-boards which lie beyond the side-edge limits of the wings, the applied putty being dressed flush with the exposed face of the wall-board to produce a smooth unbroken surface substantially conforming in appearance to a plaster wall and serving to immobilize the wings and responsively hold the inflexible strip in a fixed position over the corner proper.

2,593,860

PREPARATION OF α-AMINO-α,α-DIPHENYL-ACETIC ACID

Robert Duschinsky, Essex Fells, N. J., assignor to Hoffmann-La Roche Inc., Roche Park, Nutley, N. J., a corporation of New Jersey

No Drawing. Application November 17, 1949, Serial No. 128,007
1 Claim. (Cl. 260—518)

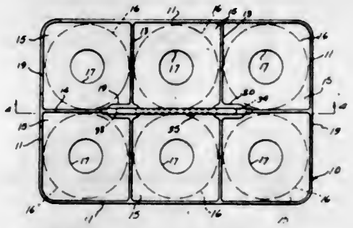
The process which comprises hydrolyzing 5,5-diphenyl-hydantoin with an aqueous solution of sodium hydroxide at a temperature of about 170–180° C. under autogenous pressure in a closed vessel so as to produce α-amino-α,α-diphenyl-acetic acid.

2,593,861

BOTTLE CARRIER

John F. Eder and George H. Wilcox, Sherman, Tex.

Application March 22, 1949, Serial No. 82,734
2 Claims. (Cl. 220—21)



1. In a bottle carrier, a tray comprising a bottom, a pair of spaced side walls positioned upon said bottom and secured to the latter, and a pair of end walls positioned upon said bottom and secured to said side walls, a longitudinally extending rigid partition arranged within said tray in parallel spaced relation with respect to the side walls and secured to said bottom and end walls, a pair of transversely disposed rigid partitions positioned within said tray intersecting said longitudinal partition and fixedly secured to said bottom and side walls to thereby sub-divide the tray into a plurality of individual compartments for the reception therein of a bottle, said longitudinally extending partition being formed with a longitudinal open ended socket at each of the points of intersection with said pair of transversely disposed partitions, each of said sockets having one of its walls cut away inwardly from the open end adjacent said bottom and terminating at a point adjacent to and spaced from the other open end thereof to thereby form a shoulder, and a resilient U-shaped handle having the free ends of its legs adapted for insertion through the other ends of said sockets and into the portions of the sockets between said shoulders and said one ends of said sockets, the free end of each of said legs being bent upwardly and outwardly to form an arm slidable within the portion of the socket between said one end thereof and the adjacent shoulder and engageable with the adjacent shoulder to limit its slidable movement in one direction.

2,593,862

METHOD FOR POLYMERIZATION OF FORMALDEHYDE AND RECOVERY OF PARAFORMALDEHYDE

Allen G. Eickmeyer, Tulsa, Okla.

Application November 19, 1948, Serial No. 61,046
4 Claims. (Cl. 260—340)

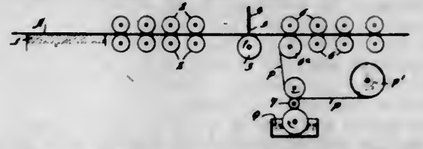
1. In the polymerization of formaldehyde to produce paraformaldehyde, the improvement which consists of introducing a relatively warm stream containing formaldehyde gas into a relatively cool slurry of solid paraformaldehyde particles suspended in a formaldehyde-absorbent liquid, thus producing desired larger particles of paraformaldehyde which are readily separable from said liquid.

2,593,863

METHOD OF PRODUCING SHEETS OF INDEFINITE LENGTH COMPOSED OF SLITTED WOOD VENEER AND A FLEXIBLE BACKING

Armin Elmendorf, Winnetka, Ill.

Application March 14, 1947, Serial No. 734,694
4 Claims. (Cl. 144—309)



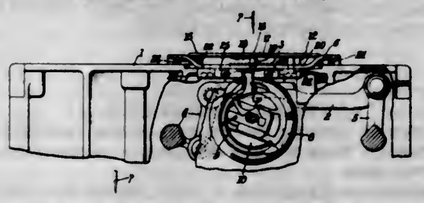
1. The method of treating wood veneer which comprises conveying a sheet of wood veneer through a zone of treatment, slitting it, as it passes through the zone of treatment, along parallel lines extending generally along the grain of the wood, and, simultaneously with the slitting, exerting a longitudinal thrust against the slit portion, in the direction of movement of the sheet, while conveying the slit portion of the sheet at a speed somewhat greater than the speed of feed of the unslit portion of the sheet into the zone of treatment, thereby increasing the across-the-grain dimension of the sheet.

2,593,864

UNIVERSAL FEED COVER PLATE FOR SEWING MACHINES

John P. Enos, Union, N. J., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

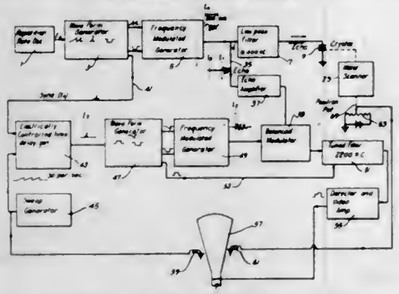
Application August 26, 1949, Serial No. 112,442
5 Claims. (Cl. 112—260)



1. A feed cover-plate for a sewing machine having a work-supporting plate, comprising a supporting base having an offset slotted arm constructed and arranged to be secured to said work-supporting plate; a raised central portion pro-

vided with a needle-hole, a clearance aperture for a work piercer, and a cutout arranged to give access to parts beneath said cover-plate; a closure plate pivotally mounted on said supporting base and normally closing said cutout; and bobbin-case rotation restraining means detachably secured to said cover-plate.

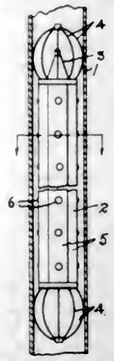
2,593,865
ULTRASONIC FLAW DETECTOR
Donald C. Erdman, Burbank, Calif.
Application November 24, 1950, Serial No. 197,378
7 Claims. (Cl. 73—67)



1. An ultrasonic flaw detector comprising a tank for holding a liquid wherein a sample to be tested may be submersed, an electro-ultrasonic transducer mounted within said tank and spaced from the position therein normally occupied by said sample, means for generating trains of electric waves of ultrasonic frequency varying with time at a substantially constant rate, connections for applying said waves to excite said transducer to produce corresponding ultrasonic wave trains therefrom, the length of said wave trains in said liquid being of the order of magnitude of the spacing between said transducer and said sample, means for generating additional electrical wave trains of substantially equal length to said first mentioned trains and varying in frequency at substantially the same rate, a modulator, input connections to said modulator from said additional generating means and said transducer, a narrow bandpass filter fed by said modulator to select from the output thereof a modulation product of specific and constant frequency, means for delaying the instants of initiation of said second mentioned wave trains by varying determinable amounts to vary the frequency of the modulation products produced by echoes of said first mentioned wave trains and said second mentioned wave trains, means connected to the output of said filter for indicating the presence of said selected modulation product, and means for indicating the magnitude of relative delay in the initiation of said second wave train when producing said selected modulation product, said indications jointly indicating the depth within said sample of a discontinuity therein.

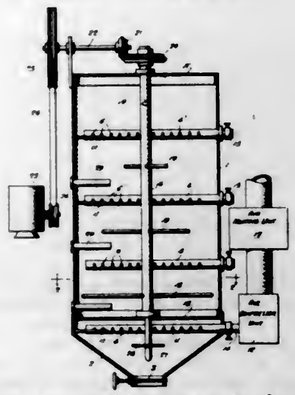
2,593,866
WELL CASING GUN
Walter R. Evans, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 4, 1947, Serial No. 784,021
3 Claims. (Cl. 164—0.5)

1. A gun type well casing perforator comprising a sinker bar in the form of a housing having a length to provide longitudinal axial spacing for a plurality of gun barrels and having a horizontal cross-sectional shape to form a plurality of continuous ribs, the section between ribs being substantially of a smaller diameter than that



defined by the extreme radial ends of the ribs, and a plurality of gun barrels mounted in said ribs transversely thereof in circumferential and longitudinal spacing.

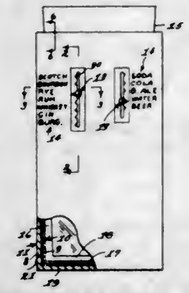
2,593,867
APPARATUS FOR MAKING ORGANIC FERTILIZER
Eric W. Eweson, Newport, R. I.
Original application February 27, 1946, Serial No. 650,610. Divided and this application March 26, 1949, Serial No. 83,744
1 Claim. (Cl. 34—174)



Apparatus for making organic fertilizer by the decomposition of moist organic material through the propagation of aerobic bacteria comprising, a tank, means for forcing air under pressure into said tank at the bottom level only of the mass of organic material in said tank, a plurality of outlet conduits located at a plurality of levels within said tank for withdrawing spent air and generated gases at vertically spaced intervals throughout said mass, and agitator means comprising a plurality of arms mounted for movement within said tank, one of said arms being located above the level of each of said conduits.

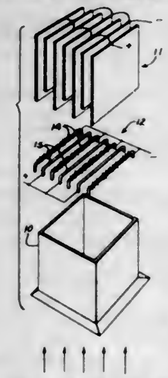
2,593,868
HOLDER FOR DRINKING GLASSES
Charles G. Fowler, Miami, Fla.
Application June 25, 1948, Serial No. 35,110
2 Claims. (Cl. 65—61)

1. A heat-insulative holder for a drinking glass comprising an inner shell dimensioned to receive the major portion of a drinking glass and including a cylindrical side wall open at one end and an end wall closing the other end of said side wall, an outer shell receiving said inner shell and including a cylindrical side wall open at one end and an end wall closing the other end of the side wall, the side wall of said outer shell having an internal diameter slightly greater than the outside diameter of the side wall of said inner shell to provide a circumferential space between said side walls and the end wall of said inner shell being spaced from the end wall of said outer
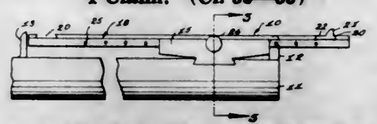


shell, and heat-insulative material filling the space between the side and end wall of said inner and outer shells, said side walls being sealed together at the open ends of said shells to close the space receiving said heat-insulative material, and the side wall of said outer shell projecting beyond the side wall of said inner shell at the open ends of said shells to provide an annular recess within said outer shell at the open end thereof, and an annular gasket of resilient material disposed in said recess to engage a drinking glass placed in the holder.

2,593,869
AIR PURIFICATION DEVICE
Hal Frederick Fruth, Skokie, Ill.
Application July 15, 1948, Serial No. 38,882
3 Claims. (Cl. 183—7)



1. A precipitating device for ionizing air-borne particles including, in combination, two ionizing electrodes disposed in spaced relation to each other, one of said electrodes comprising an elongated body formed from interlaced fine strands of yarn having high electrical and heat insulating properties, said body being of sufficient strength to be self-supporting between its ends, the surface of said body being frayed so as to present a large number of closely spaced outwardly extending projections of said fine strands of yarn, and a fine coating of electron emissive metallic material on the surface of said body and on said projecting strands of yarn, the strand projections thus coated having substantial length but being of small transverse cross section, said coated strands having both good heat insulating properties and good electrical conducting properties, the ends of said projections presenting minute electron emitting points which become heated to high temperatures when said device is in operation.

2,593,870
ADJUSTABLE SIGHT RADIUS DEVICE FOR FIREARMS
Henry F. Ganshorn, Washington, Ill.
Application June 9, 1950, Serial No. 167,080
1 Claim. (Cl. 33—53)



The combination with a gun barrel having a front sight rising therefrom and a rear sight rising from the barrel rearwardly of the front sight, of a base mounted on the barrel between the front and rear sights, said base having a longitudinal slideway in its upper side, a slide confined in said slideway and adjustable therein longitudinally of the gun barrel, said slide having a forward portion extending forwardly from said base and formed with a longitudinal slot receiving the front gun barrel sight, another front sight on the forward end of the slide and located forwardly of the front sight of the gun barrel, detent means acting between said base and said slide for securing said slide in selected longitudinal adjustment relative to said base and the gun barrel, said forward portion of the slide being formed with a transverse slot in its upper side, and said other front sight having a portion slidably confined in said slot whereby said other front sight is transversely adjustable across said slide.

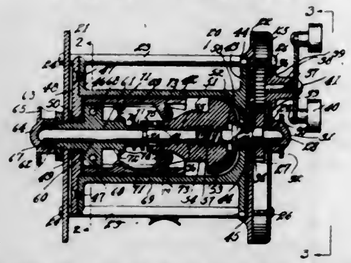
2,593,871
METHOD OF MAKING STORM WELTS
Leon H. Gemme, Worcester, Mass., assignor to L. Farber Welting Company, Worcester, Mass., a corporation of Massachusetts
Application January 13, 1950, Serial No. 138,334
4 Claims. (Cl. 12—146)



1. A method of making storm welting comprising the steps of providing a welt strip having a square outer edge and beveled inner edge, making a cut in said strip starting at the bottom surface, extending upwardly appreciably beyond the medial plane and then laterally toward the square edge of the strip, said cut originating at the base of the beveled edge and terminating in a plane substantially parallel to the surfaces, thereby partially severing a bead-forming flap from the strip having a thin hinge-like portion and an end portion constituted by said beveled edge and leaving a subjacent shoulder having an upwardly faced shelf, lifting the bead-forming flap about its anchored end, bending it double upon itself to bring the surface portion of the beveled edge divided from the remainder of the

strip by said cut originating at the bottom surface into engagement with the subjacent shelf, securing said portion of the beveled edge to the shelf to form a bead standing upright from the top surface of the strip having a generally vertical outer surface and an inner surface declivitating toward the sewing edge, and removing from the inward inclined surface of the bead near the sewing edge a strip of material to provide a concave groove, one wall of which is substantially tangent to the plane of the top surface of the welt.

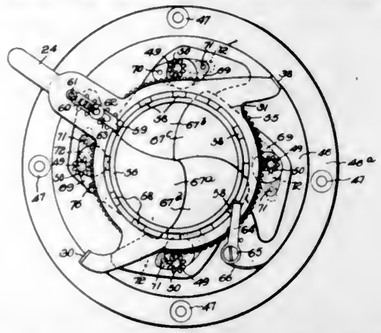
2,593,872
FISHING REEL BRAKE
Irving W. Gohde, Chicago, Ill.
Application August 6, 1946, Serial No. 688,757
3 Claims. (Cl. 242—84.5)



1. A device of the character described, comprising a reel having circular end plates, rods joining said end plates in spaced relation to each other, a free running spool, a shaft for said spool journalled in said end plates, a worm on said shaft adjacent one end thereof, a cone shaped actuating member having internal threads mounted on said shaft so that said threads coact with said worm, a brake shoe supporting member on said shaft opposite to said actuating member, brake shoes pivoted on said supporting member and extending within said spool parallel to said shaft, shoe actuators on said brake shoes extending toward said shaft, springs connected to said shoes and said supporting member to urge said shoes toward said shaft, a hand crank for said reel member on one of said end plates, said actuating member being arranged to engage said shoe actuators for applying said brake shoes to said spool for braking said spool during the rotation thereof, said actuating member being operated by said hand crank.

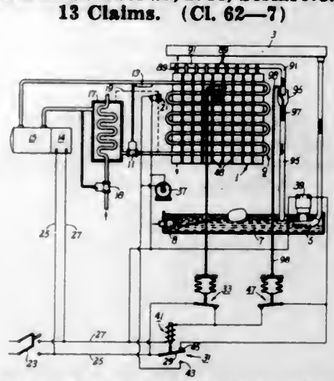
2,593,873
SHUTTER LEAF DRIVING MEANS FOR BETWEEN-THE-LENS SHUTTERS
Archie H. Gorey, Rochester, N. Y., assignor to Graflex, Inc., Rochester, N. Y., a corporation of Delaware
Application May 17, 1949, Serial No. 93,712
12 Claims. (Cl. 95—63)

1. A between-the-lens shutter for photographic cameras, comprising in combination, a case or housing adapted to be mounted upon the lens board or the like of a camera and having a suitable exposure opening, a series of shutter leaves or blades cooperatively positioned so as together, in one position to close and in another position to uncover said exposure opening, each of said shutter leaves or blades having within its perimeter a substantially circular formation, a corresponding series of disks directly and respectively mounted in and filling each of said substantially circular formations, each of said disks being eccentrically provided substantially within the perimeter thereof with a pivot upon which it turns to open and close said leaves or blades, means to turn each of said pivots in one direction through a complete revolution in a cycle of opening and closing the shutter leaves or blades, thereby to cause the leaves or blades to uncover said



exposure opening and then to close the same; and cooperating guiding formations upon said shutter leaves or blades and upon a relatively stationary part of the shutter to establish the exact path of the opening and closing movements of said shutter leaves or blades.

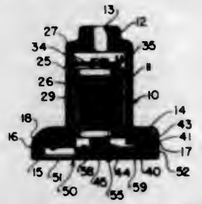
2,593,874
ICE-MAKING
William M. Grandia, York Township, York County, Pa., assignor to Flakice Corporation, Brooklyn, N. Y., a corporation of Delaware
Application October 29, 1948, Serial No. 57,158
13 Claims. (Cl. 62—7)



1. In apparatus of the character described, the combination of, ice forming means including a plurality of passageways through which liquid to be frozen flows and within which ice forms whereby the flow is restricted, means to supply the liquid to be frozen to said passageways, means forming an outlet at the entrance of said passageways whereby liquid flows through said outlet when there is a restriction in the flow through said passageways, and control means responsive to the flow of liquid through said outlet to discontinue the freezing operation.

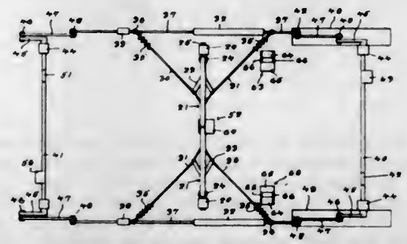
2,593,875
FACIAL IRON AND VIBRATOR
Margaret Grunwald, New York, N. Y.
Application May 14, 1949, Serial No. 93,311
6 Claims. (Cl. 128—41)

5. A combination massaging, ironing and heating device for the human skin, comprising a cylindrical housing of substantially electric and heat insulating material, an enlarged open end portion for said housing, a resilient thin metal operating wall closing said opening, said wall having a smooth outer surface adapted to be used for ironing the skin, a cylindrical electromagnet in the cylindrical portion of the housing, an electric heating unit secured on the inside of said



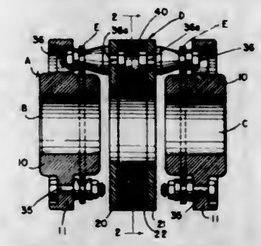
wall, a resilient magnetically reacting arm secured on one side of said enlarged portion of the housing and interposed between said wall and said magnet, whereby the device may be placed on the skin to be treated by said operating wall, said wall heated to a desired temperature by said unit and vibrated by taps of said arm caused through the action of the magnet.

2,593,876
AUTOMATIC FARM GATE
George F. Gump, Walla Walla, Wash.
Application October 31, 1949, Serial No. 124,653
4 Claims. (Cl. 39—29)



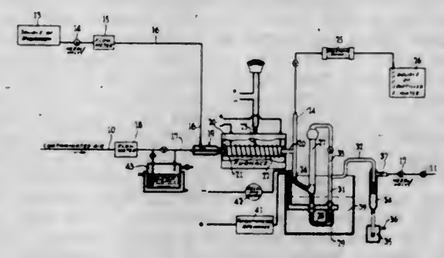
1. In combination, a pair of spaced parallel vertically-disposed standards each having their lower ends supported in the ground, a gate pivotally supported by each of said standards and mounted for swinging movement about a vertical axis, each of said gates including a vertical tubular portion and a hollow horizontally-disposed portion secured to said vertical portion, a V-shaped body member supported on each of said horizontally-disposed portions, a lock arranged intermediate said pair of standards, a spring-pressed plunger slidably arranged in the lower end of each of the vertical portions of each of said gates, said plunger being mounted for movement into and out of engagement with said lock for selectively maintaining said gates in closed position, a pair of cables connected to said body member and each having an end connected to said plungers, a pair of spaced parallel horizontally-disposed shift rods arranged on opposite sides of said standards, a pair of coil springs each having an end connected to each of said shift rods and their other ends connected to said cables, a pair of spaced parallel horizontally-disposed trip bars extending between the ends of said shift rods, a pair of plates arranged at right angles with respect to each other and secured to each of said trip bars and adapted to be engaged by a vehicle wheel, and means pivotally connecting said trip bars to said shift rods.

2,593,877
FLEXIBLE COUPLING
Ernest Hagenlocher, Warren, Pa.
Application September 18, 1945, Serial No. 617,028
7 Claims. (Cl. 64—13)



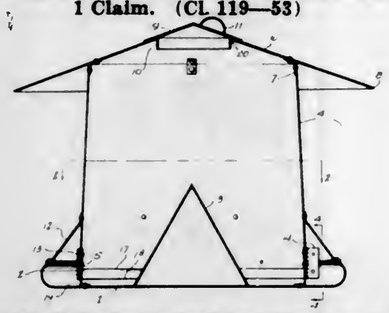
1. In a flexible coupling the combination of a pair of coupling attaching parts, sets of transversely flexible laminated discs respectively connected with said attaching parts, a coupling structure between said attaching parts including metal side plates, means connecting said metal side plates with said sets of discs at locations other than the locations which attach said discs to said attaching parts, and a resilient material attached with and located between said metal plates which will flex under the imposition of angular shearing forces in a plane normal to the axis of said coupling.

2,593,878
DETECTION AND QUANTITATIVE DETERMINATION OF HALOGENATED HYDROCARBONS IN ATMOSPHERE
George S. Haines, South Charleston, and Frank D. Heindel, St. Albans, W. Va., assignors to Food Machinery and Chemical Corporation, Wilmington, Del., a corporation of Delaware
Application February 26, 1945, Serial No. 579,831
4 Claims. (Cl. 23—232)



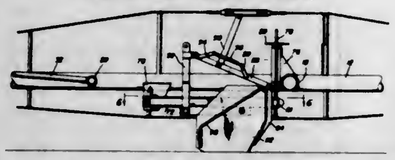
1. A process for quantitatively determining the presence of halogenated hydrocarbons including bromides, chlorides and iodides in an atmosphere contaminated with the same, which comprises adding to such contaminated air an amount of hydrogen gas theoretically sufficient to react with the oxygen content of the atmosphere in excess of that part thereof which will react with the halogenated hydrocarbon therein, heating the resulting mixture to an elevated temperature and by the aid of such heat, (1) converting the halogenated hydrocarbons into hydrogen halides through reaction with oxygen in the air, and (2) reacting the added hydrogen present with the remaining oxygen whereby the formation of free halogen is prevented, dissolving the hydrogen halides formed in water of known electrical conductivity and measuring the electrical conductivity of the resulting solution.

2,593,879
CHICKEN AND HOG FEEDER
Stephen G. Harry, Cody, Wyo.
Application March 10, 1950, Serial No. 149,006
1 Claim. (Cl. 119—53)



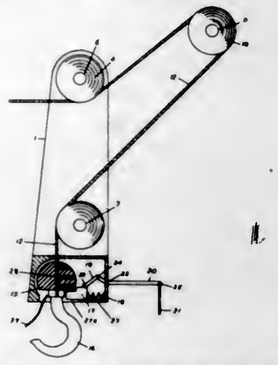
In a stock feeder, a feed pan involving a disc portion and an annular peripheral flange thereon, said flange curving outwardly, upwardly and then inwardly from said disc portion, a vertical substantially cylindrical feed bin, said feed bin being substantially smaller in diameter than said feed pan and overlying said feed pan and concentrically spaced from said peripheral flange so as to define a feeding trough between the side wall of the bin and said peripheral flange, circumferentially spaced brackets connected between the disc portion of the feed pan and the lower part of said bin and positioning said feed bin relative to the feed pan, said feed bin being entirely open at its lower end and having a lower edge spaced upwardly from said disc portion and spaced below the upper edge of said peripheral flange so as to define a limited passage through which feed present in the bin can move radially outwardly along the disc portion of the feed pan from the bin into the trough as feed subsides gravitationally in the bin in response to removal of feed present in the trough, said bin having a split ring circumposed on the lower part thereof, said ring having circumferentially spaced ends formed with radially outwardly extending flanges, and bolt means connecting the flanges, said bolt means being arranged to be loosened to permit expansion of the ring and free vertical adjustment of said ring from a depressed position on which the ring rests upon the disc portion of the feed pan and entirely closes said limited feed passage to an elevated position in which the lower edge of the ring is above the lower edge of the bin and said passage is entirely open, said ring being adjustable to an intermediate position in which its lower edge is below the lower edge of the bin and said passage is partly closed, said bolt means being arranged to be tightened to contract the ring upon the bin so as to maintain the ring in an adjusted position thereon.

2,593,880
PORTABLE EARTH LEVELING APPARATUS
Oral R. Heavilin, Klamath Falls, Oreg.
Application September 10, 1947, Serial No. 773,117
2 Claims. (Cl. 37—169)



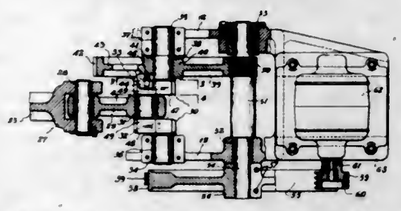
1. An attachment for a tractor comprising a frame which includes a pair of side bars, tie rods secured to said bars, brackets depending from said bars and rails pivoted to said brackets, a scraper pivotally secured between said rails, means carried by said bars and operatively engaging said rails for raising and lowering said rails pivotally thereby bodily raising and lowering said scraper, means carried by said rails and secured to said scraper for pivotally operating said scraper including a support, a crank pivoted to said support, a pitman pivoted at one end to said crank and pivotally connected with said scraper, and means reacting on said pitman and said crank constantly resiliently urging said crank and said pitman pivotally with respect to each other to press said scraper toward the ground.

2,593,881
SNATCH CARRIER TACKLE
Delbert H. Henderson, Shaker Heights, Ohio
Application May 28, 1949, Serial No. 95,923
3 Claims. (Cl. 212—100)



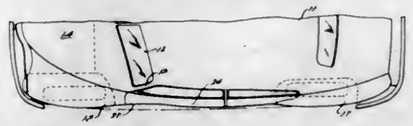
1. In a device of the character described, comprising an elongated form of two flat side members, spaced parallel and joined in their lower end portions in a manner to form a sheave frame, two grooved pulleys disposed and rotatably fixed within the said sheave frame in vertical alinement with each other to form a sheave block, an opening in the joining means to permit the ball form end of a load carrying hook to be drawn into a position within and between the lower end portion of said side members, means for securely retaining and locking the said ball form end in the said position between the side members, means for moving said sheave block and loaded hook to a point remote from the place where the load was originally located.

2,593,882
CRANK DRIVING MECHANISM
Lad L. Hercik, Lakewood, Ohio
Application January 15, 1949, Serial No. 71,065
8 Claims. (Cl. 287—52)



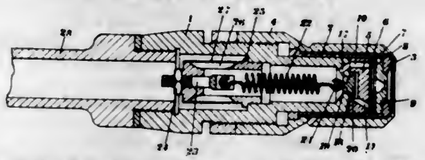
1. A drive mechanism for a crank shaft comprising a crank arm and a shaft portion extending in one axial direction from the arm and a crank pin parallel to the shaft portion and extending in the opposite axial direction from the arm, in combination with a rotatable drive member formed with a bore mounted on the shaft portion and with a pair of ears having bearing surfaces extending axially toward the crank arm and overlapping the crank arm at least in part and spaced apart a distance substantially equal to the axially transverse width of the crank arm between the side faces thereof and snugly engaging said side faces of the crank arm.

2,593,883
AUTOMOBILE BODY
Roscoe C. Hoffman, Detroit, Mich.
Application January 28, 1948, Serial No. 4,817
1 Claim. (Cl. 296—28)
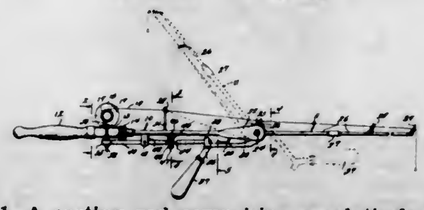


In a vehicle body having openings in the sides for doors, a pillar portion at the forward end of the door extending upwardly from the floor to the belt line at both sides of the body, fenders at the front of the body having top contour lines disposed in continuation of the belt line of the body through the doors, the sides of the fenders and the door panels sloping inwardly toward a point on the door in the vicinity of the pillar portions to substantially reduce the width of the pillar portions and the thickness of the door transversely of the body, rear pillar portions at the door openings, and rear fenders at the rear of the body sloping inwardly to be in alignment with the inwardly sloping rear edge of the door panels to reduce the width of the pillar portions below the belt line at the rear edge of the door opening transversely of the body.

2,593,884
OIL BURNER NOZZLE
Richard Joseph Ifield, Dural, New South Wales, Australia, assignor to Joseph Lucas, Limited, Birmingham, England
Application July 30, 1948, Serial No. 41,495
In Great Britain August 1, 1947
2 Claims. (Cl. 299—120)



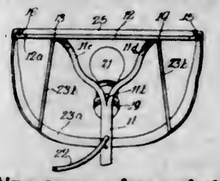
1. A fuel burner having in combination a fuel inlet, means defining a main chamber, said chamber communicating at one end thereof with said inlet and having an opening in its opposite end, a member having one side in facial contact with the end of said chamber having the opening therein, said member being provided with a recess therein in communication with said opening, a plurality of juxtaposed plates at the opposite side of said member, the plates being so cut away as to jointly form a swirl chamber and a fuel outlet leading from said swirl chamber, means securing said member and plates to the means defining the said main chamber, feed passages leading from said main chamber through said member to said swirl chamber, additional feed passages leading from said recess through said member to said swirl chamber, a valve within said recess for controlling fuel flow from said opening to said recess, a tension spring situated in the means defining said main chamber and connected at one end to said valve, and means anchoring the other end of said spring in the means defining said main chamber so that said spring serves to hold said valve closed until the fuel pressure within the means defining said main chamber rises to a predetermined value, and then allows said valve to be opened by said pressure.

2,593,885
CASTING ROD
Harry A. James, Joplin, Mo.
Application February 10, 1950, Serial No. 143,537
10 Claims. (Cl. 43—19)



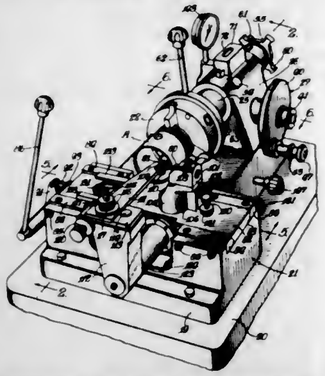
1. A casting rod comprising a relatively stationary unit including a reel and a butt section, and a tip section normally arranged substantially in alignment with each other, means pivotally connecting the adjacent ends of said sections for turning movement on a normally horizontal axis transverse to said sections, handle means carried by said tip section to swing the latter in a bait casting operation from a rearward position over said butt section downwardly and forwardly to the normal position of said tip section, and a brake device carried by said relatively stationary unit and biased to operative position to resist turning movement of said reel, said handle means and said brake device having portions engageable with each other as said tip section approaches normal position for releasing said brake device from the reel.

2,593,886
COMBINED WALL LAMP AND SHELF
Charley H. Johnson, Tulsa, Okla.
Application March 19, 1947, Serial No. 735,781
4 Claims. (Cl. 211—90)



1. Supporting means for a shelf comprising a supporting bracket formed of a strip of material split for a substantial distance from one end thereof, an element having ends fastened to the split end of said bracket with the ends of said element adapted for engagement with a suitable planar wall from which said shelf is to be supported, means for fastening said bracket to said wall comprising a single member adapted to extend through said bracket and into said wall, and means projecting from each end of said element for engagement with said wall to prevent movement of said bracket and element relative to said wall.

2,593,887
KNURLING MACHINE
Cernyw F. Jones, Economy, Ind., assignor to Perfect Circle Corporation, Hagerstown, Ind., a corporation of Indiana
Application May 21, 1949, Serial No. 94,546
8 Claims. (Cl. 80—5.1)



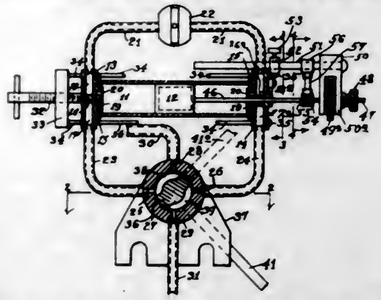
7. A knurling machine for knurling pistons of the character described where the piston is mounted for rocking movement about its own axis, comprising a carrier slidably mounted for movement transverse to said axis, a tool support extending laterally from said carrier, a knurling member mounted on said tool support and engageable with the outer surface of the skirt of the piston, an arm extending laterally from the carrier, an anvil member supported by said arm and insertable into the open end of the piston for engagement with the inner surface of the skirt, and an actuator supported by the carrier for moving one of said members toward the other to clamp the skirt therebetween and to press the knurling member into knurling relation with the skirt, the carrier being freely movable as said members follow the contour of the skirt to avoid distortion thereof.

2,593,888
PRODUCTION OF HYDROXYALKYL AMIDES OF ACRYLIC ACIDS
Giffin D. Jones, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 16, 1945, Serial No. 622,702
5 Claims. (Cl. 260—561)

1. A method of producing a substantially pure N-(hydroxyalkyl) amide of an acid selected from the class consisting of acrylic acid, α-methyl-, α-propyl-, α-butyl-, α-cyclohexyl-, α-phenyl- and α-chloroacrylic acids, which comprises adding an acid halide of an acid of the aforesaid class to an excess of an amide-forming alkylolamine in solution in a sufficient amount of acetonitrile to dissolve the N-(hydroxyalkyl) amide formed in the reaction, but which is a non-solvent for the alkylolamine hydrogen halide formed in the reaction, and separating the resulting acylation product from the reaction mixture.

2,593,889
MACHINE FOR MEASURING AND DISPENSING VARIABLE VOLUMES OF LIQUIDS
Joseph Kahl and George H. Muller, New York, N. Y.; said Muller assignor to G. M. Manufacturing Company, New York, N. Y.
Application June 20, 1946, Serial No. 677,978
4 Claims. (Cl. 222—250)

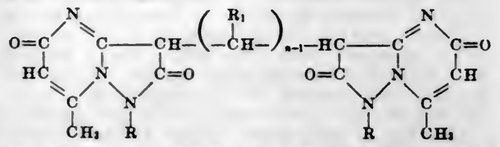
1. In a machine for measuring and dispensing variable volumes of liquid, a cylinder, a piston slidably mounted therein, a means for admitting liquid into one end of the cylinder and for discharging it therefrom, the piston to be moved by the liquid, and a stop means in said cylinder for limiting the stroke of the piston, the stop means being integral with a rod slidably connected to the cylinder and terminating at the inner end thereof in said stop means, said rod being threaded at its outer end, combined with an abutment member having thereon a part which is freely slidably connected to a part on the cylinder, a means for detachably connecting the abutment member to the said part of the cylinder, said member, when detached from said part, being disposed to be freely slid by a nonrotary motion in a plane parallel to the cylinder, a nut carried by said member in mesh with the threaded outer end



of said rod, and a means for imparting relative rotation to said rod and nut with reference to each other for adjustably varying the position of said rod lengthwise thereof with relation to the abutment member, whereby, for changing the volume of liquid to be admitted to the cylinder, the abutment member may be detached from said part of the cylinder and freely slid with said rod by a nonrotary motion to an approximately limiting position of the stop means for the piston in the cylinder, whereupon the abutment member may be reattached with relation to the cylinder and the exact position of the said rod lengthwise thereof may then be accurately adjusted by the relative rotation of said nut and said rod with reference to each other through a limited distance and in a relatively short time for the exact limiting position of the said stop means.

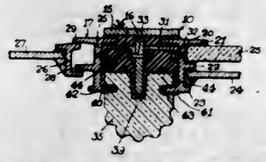
2,593,890
3,3'-BIS-(1-SUBSTITUTED-2,5-DIKETO-7-METHYLPYRIMIDOPYRAZOLES)
Henry B. Kellog, Weehawken, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application August 11, 1948, Serial No. 43,765
4 Claims. (Cl. 260—256.4)

1. The bisymmetrical compounds having the general formula:



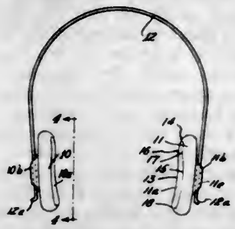
wherein R is selected from the class consisting of an alkyl radical of not more than 18 carbon atoms, mono- and bi-cyclic carbocyclic aryl groups, mono-cyclic carbocyclic aralkyl groups, and mono-nitrogenous heterocyclic groups selected from the class consisting of benzothiazolyl, alpha-quinolyl, and alpha-pyridyl, R_1 is selected from the class consisting of hydrogen, lower alkyl and mono- and bi-cyclic carbocyclic aryl groups, and n represents a number not greater than 2.

2,593,891
CONSTRUCTION OF PANELED WALLS FOR BUILDINGS
Cyril Ernest Kenney, Portman Square, London, England
Application October 26, 1945, Serial No. 624,885
In Great Britain June 30, 1944
1 Claim. (Cl. 189—34)



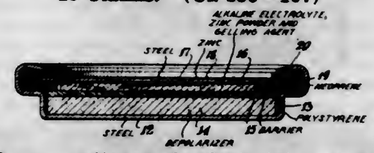
In a wall of the class described, an upright stanchion, a pair of panel members extending laterally from either side of said stanchion, said stanchion being of T-shape in cross section with its transverse limb parallel with the panel members and its central limb between adjacent vertical panel edges, fastening clips securing the panel members to the central limb of the stanchion, leaving an intermediate space, flanges upon the adjacent vertical edges of the panel members disposed so that the edges of the flanges face the stanchion, a rod-like capping member having a deep groove extending vertically along each of its two sides and its rear, said capping member being mounted along the flanges of both said panels respectively, and the front edge of said stanchion central limb by slidable endwise movement so that the grooves receive the flanges and the capping member is held by the positive interlocking engagement of said flanges with the said deep grooves, and waterproof sealing material filling the intermediate space between the edges of the panel members and between the back of the capping member and the stanchion, to provide a waterproof seal between th ecapping member and the panel members.

2,593,892
EARPIECE
Elmore A. Kindel, Wyoming, Ohio
Application April 5, 1950, Serial No. 154,135
7 Claims. (Cl. 2—174)



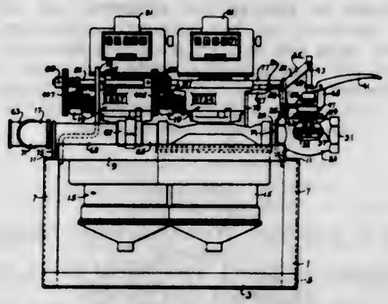
1. An ear piece comprising an annular hollow member of smoothly rounded surface adapted to seat against the human skull around the outer ear, said annular member independent of external forces being deformed from a mean general plane and having a protuberance in the region adapted to contact the skull in front of the helix of the ear and a protuberance in the region adapted to contact the skull below the lobe of the ear and depressions intermediate said protuberances whereby said ear piece in place has substantially uniform contact with the skull, and a rigid plate secured to said annular member on the side which is away from the skull in use to form a pocket adapted to cover the outer ear, said plate being deformed peripherally from a mean general plane to the same configuration as said annular member, and being domed, whereby to help said annular member to retain its contour permanently.

2,593,893
PRIMARY CELL
Bernard H. King, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application April 14, 1947, Serial No. 741,294
19 Claims. (Cl. 136—107)



1. A composite anode-electrolyte member for primary cells consisting of a substantially solid self-supporting body composed throughout of a uniform mixture of anode metal particles, of an electrolyte, and of a compatible gelling agent.

2,593,894
PROPORTIONER RESETTING MECHANISM
Gerald J. Klopfenstein, Fort Wayne, Ind., assignor to Bowser, Inc., Fort Wayne, Ind., a corporation of Indiana
Application February 8, 1947, Serial No. 727,467
10 Claims. (Cl. 222—20)

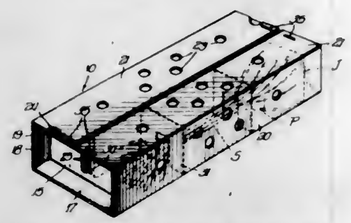


1. In a proportioning apparatus the combination of a number of dispensing flow lines, a meter in each line, means for commingling the fluids delivered from said meters, control means in each line for starting and stopping the flow, a resettable predetermined stop mechanism driven by each meter and connected to actuate its control means to stop the flow, means for presetting each of said mechanisms to initial position for a predetermined delivery, and means for resetting said mechanisms simultaneously to their initial positions.

8. In a predetermined stop mechanism, the combination of a plurality of stop elements mounted for movement between preset and stop positions, means for individually presetting said elements, comprising individual ratchet means for each stop element and a setting pawl for each ratchet means, means for driving said elements to stop position, means for thereafter resetting said elements simultaneously to preset positions,

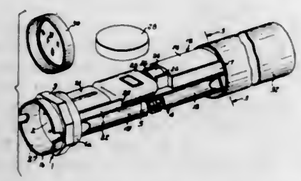
said resetting means comprising a member rotatable in a resetting direction and resetting pawl means in engagement with each ratchet means and fixed to said member to be simultaneously rotatable therewith.

2,593,895
SHIPPING CONTAINER
William R. Kohl, Glenview, Ill.
Application August 17, 1948, Serial No. 44,712
2 Claims. (Cl. 229—27)



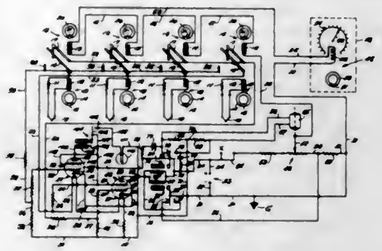
1. A container of the type described, comprising a blank of relatively stiff material folded to define a bottom, a pair of side walls flexibly conjoined to opposite margins of the bottom, a pair of cover members flexibly conjoined to said side walls, and a pair of flaps on said cover members positionable in parallel, longitudinally extending relation to depend internally of and at least partially subdivide the container interior, a partition element disposable transversely of said interior in interengaged relation to said flaps, and an end section flexibly conjoined to an end of said bottom and disposable normal to the bottom in telescoped relation internally of said container a substantial distance inwardly of the adjacent end of the latter, said end section being apertured to receive the adjacent end of said flaps inwardly of the adjacent container end margin, said end section including laterally projecting tab means and a panel integrally hinging the same to said bottom, said tab means and panel frictionally engaging the inside of the container inwardly of said end margin.

2,593,896
TOILET KIT
Eryk A. Kollontay, Weinbach, Saint Wolfgang, Austria
Application May 3, 1948, Serial No. 24,856
In Austria July 11, 1947
3 Claims. (Cl. 132—79)



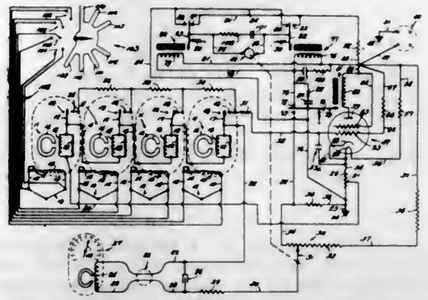
1. A toilet kit for holding a plurality of toilet articles including a tooth brush and preparations in paste and liquid form, comprising a cylindrical wall portion, a transverse wall closing one end of the cylindriacl wall, a non-circular external flange intermediate the ends of the cylindrical wall, a pair of spaced parallel longitudinal walls projecting from the side of the transverse wall opposite the cylindrical wall, a longitudinal web connecting said longitudinal walls intermediate their edges, said spaced walls and web cooperating to form holders for a tooth brush and tubes of paste preparations on opposite sides of the web, an outwardly projecting rectangular rim on the outer face of one of said longitudinal walls forming a box-like compartment, a removable lid closing said compartment, retaining means on the outer face of said longitudinal wall for holding a bottle and a pair of cup-shaped cylindrical covers of an internal size and shape to fit frictionally on said cylindrical wall, one of said covers fitting over the end portion of said cylindrical wall on one side of said flange and the other cover fitting over the opposite end portion of the cylindrical wall and enclosing said longitudinal walls and the compartments associated therewith.

2,593,897
MEANS FOR INDICATING THE MAXIMUM OF A PLURALITY OF CONDITIONS
Knud J. Knudsen, Naugatuck, Conn., assignor to The Lewis Engineering Company, Naugatuck, Conn., a corporation of Connecticut
Application March 14, 1947, Serial No. 734,748
26 Claims. (Cl. 73—341)



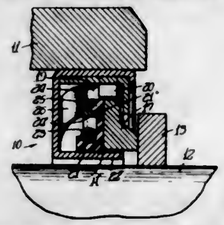
1. An instrument for continually indicating the temperature solely of whichever one of a plurality of instrumentalities which are subjected to heat is the extreme thereof, comprising a pyrometer for each instrumentality, having a control member movable in relation to the temperatures of the instrumentality; series-connected electric sensitive-instrument movements having deflectable parts respectively engageable with and disengageable from said control members for making and breaking electrical circuits, said parts being all equally deflectable in response to a common energizing current; energizing means controlled by said members and parts for automatically simultaneously energizing the instrument movements with an undulating current to cause the parts thereof to deflect to the same extent as the control member of whichever pyrometer is associated with the extreme instrumentality, and to cause continual engagement and disengagement between said member and the associated one of said parts without materially altering the deflection of the member, a condition of hunting existing between the said member and part, said energizing means including a potentiometer and a reversing motor operating the latter and reversed by said engagement and disengagement, and including a fixed resistance element made operative and inoperative alternately and periodically by said engagement and disengagement to produce undulations in said current; and an additional electric sensitive-instrument movement located remote from the other instrument movements and series-connected therewith to indicate the deflection of the deflectable parts thereof.

2,593,898
MEANS FOR RESPONDING TO AN EXTREME OF A PLURALITY OF CONDITIONS
Knud J. Knudsen, Naugatuck, Conn., assignor to The Lewis Engineering Company, Naugatuck, Conn., a corporation of Connecticut
Application June 17, 1948, Serial No. 33,650
16 Claims. (Cl. 73—341)



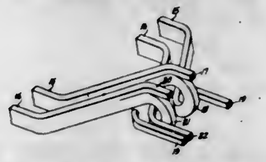
1. In an instrument for responding continually in accordance with the value of whichever of a plurality of independent variables is the extreme thereof, a plurality of separate means for translating said variables respectively into variable electric potentials; a plurality of electric instrument movements, each having a deflecting coil and an opposing coil; circuit means, energizing the deflecting coils respectively with said potentials; a separate control means operable by each instrument movement, each control means being operated only whenever the coils of the movement are energized in a predetermined ratio; and energizing means controlled by said control means, and including a source of energy, for automatically simultaneously energizing the opposing coils with fixedly-related amounts of current to cause operation of that one of the control means which is operated by the instrument movement associated with the extreme variable, said energizing means maintaining said operated control means continually operative while the variable associated therewith is an extreme and providing an energization which is related to the response of the translating means associated with the extreme variable, and thereby to the variable.

2,593,899
SEAL
Louis G. Krug, Chicago, Ill., assignor to Chicago Rawhide Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 11, 1946, Serial No. 653,642
2 Claims. (Cl. 288—3)



1. A seal for use in conjunction with a pair of relatively rotatable parts, comprising an annular casing having an outer axially extending sleeve portion adapted for fixed association with one of the parts, a radially extending abutment portion and an inner axially extending sleeve portion, said portions being in fixed, sealed relation to one another to substantially seal the casing between said portions, an annular sealing member in said casing adapted to engage the other of said parts to effect a running seal therewith and subject to axial shifting during operation, a flexible diaphragm sealing element having an inner peripheral portion in normally relatively fixed but axially shiftable sealing relation to said inner axially extending sleeve portion of the casing and spaced substantially forwardly from said abutment portion, said element having a radially extending web in sealing engagement with said member and freely shiftable axially therewith in the operation thereof, and spring means engaging said abutment portion on the side of said diaphragm sealing element opposite said sealing member and in thrust transmitting relation to said member and said web to urge said member forwardly for sealing action, while yielding to permit said axial shifting movement of said sealing member irrespective of movement of said peripheral portion, said outer sleeve portion of said casing having an element in rigid, fixed relation thereto which is externally engageable with said annular sealing member in radially outwardly spaced relation to said inner casing sleeve portion to limit the forward axial position of the sealing member.

2,593,900
ARMATURE COIL LEAD ARRANGEMENT FOR REDUCING CORONAS
John L. Kuehlthau, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application December 23, 1950, Serial No. 202,444
6 Claims. (Cl. 171—252)

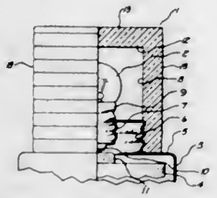


1. An alternating current dynamoelectric machine having a high voltage armature winding, said winding comprising a plurality of multiturn coils symmetrically disposed to form a lap type winding, each said coil having a first lead and a second lead for connecting said coils in a plurality of circuits, each said circuit having a high potential terminal, those of said second leads which are connected to first leads of adjacent said coils being similarly disposed on one side of the end turn portions of their respective coils, those of said second leads which are connected to first leads of nonadjacent said coils to form said high potential terminals being disposed on the other side of the end turn portions of their respective coils.

2,593,901
SIGNAL LIGHT
James D. Lash, Cleveland Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application October 15, 1948, Serial No. 54,771
3 Claims. (Cl. 240—106)

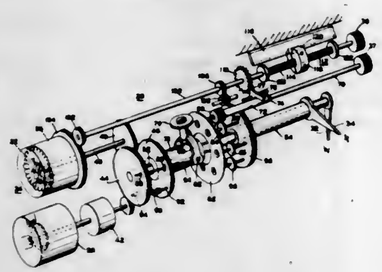
1. A signal light comprising a compact light source and a light controlling cylindrical enclosure mounted about said source and having a light transmitting end wall and parallel elongat-

ed annular light converging lenses in its side wall, the optical axes of said lenses being in parallel planes disposed at different angles to said source so that light emitted by the source in the



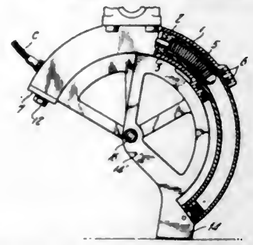
direction of said side wall is concentrated into narrow diverging beams by said lenses whereby random movement of the light produces a flashing effect at distant points.

2,593,902
COMPENSATOR
Richard A. Lee, West Englewood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application July 14, 1949, Serial No. 104,630
12 Claims. (Cl. 33—224)



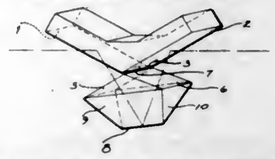
1. In a compensating mechanism for a repeater indicator to compensate for predetermined errors in a master compass in which rotor and stator elements of an inductive device are relatively displaceable in response to movements in said master compass, a member connected to said rotor element and movable therewith, a repeater indicator, a member connected to said indicator and movable therewith, a flexible annular cam track, a plurality of adjustable means connected to said cam track and spaced therealong to change the contour thereof, a cam follower adapted to follow the contour of said cam track associated with one of said members and comprising a bell crank pivotally mounted on said one member and adapted to engage the other member, resilient means connecting said members and providing a driving connection between said members and permitting relative displacement therebetween proportional to variations in the contour of said flexible cam track, manually operated actuating means arranged for engagement with successive adjustable means, and means connected to the stator element and cam track for manually rotating said cam track to bring a preselected one of said adjustable means into engagement with said actuating means and simultaneously rotating the stator element of said inductive device to bring said cam follower into responsive position relative to said preselected adjustable means.

2,593,903
HYDRAULIC ELEVATOR OR JACK
Ramon Lozano y Garcia de Vinuesa, Cordoba, Spain
Application January 17, 1948, Serial No. 2,854
In Spain May 21, 1947
3 Claims. (Cl. 254—86)



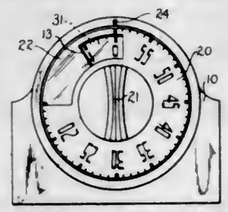
3. In a lifting jack for a vehicle having front and rear axles and wheels mounted on the axles, the combination of an arcuate cylinder adapted to be secured to the under side of the vehicle below one of the axles thereof and adjacent the inner side of one of the wheels on the axle, said cylinder having a depending web, a shoe having a bifurcated web arranged at opposite sides of the cylinder web and pivotally connected thereto to swing about the axis of the cylinder, the upper surfaces of said shoe web being concentric to said axis and the underside of the cylinder having corresponding curved surfaces in sliding engagement therewith, a piston in the cylinder having its outer end connected to the outer end of said shoe whereby upon movement of the piston in one direction the shoe is swung downwardly first to engage the ground and then to lift the vehicle, fluid pressure means for thus moving the piston, a rod extending a distance concentrically through the piston and having one end secured to the inner end of the cylinder, and a spring coiled about the rod and interposed between a shoulder on the outer end of the rod and a shoulder on the piston for moving the piston in the opposite direction to retract the shoe when the fluid pressure means is released, said bifurcated web of the shoe and the underside of the piston having co-engaging shoulders for limiting the downward movement of the shoe.

2,593,904
IMAGE-INVERTING OPTICAL SYSTEM
Max Ludewig, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany, a corporation of Germany
Application January 31, 1950, Serial No. 141,510
In Germany August 1, 1949
6 Claims. (Cl. 88—1)



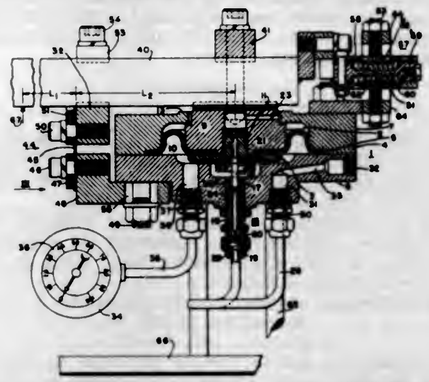
1. A direct-vision, image-inverting optical system with four reflecting surfaces of the type of Abbé's inverting prism system, comprising a first optical member having two plane surface mirrors arranged at an angle to each other and forming an intersecting edge, and a second optical member consisting of a back-viewing roof prism spaced from said first optical member and having transparent incident and emerging surfaces also arranged at an angle to each other and forming another intersecting edge, said two edges being arranged juxtaposed and parallel to each other, at least one of said optical members being arranged pivotally around at least one of said edges as an axis, and each of said optical members being pivotable independently with respect to the other member.

2,593,905
TIMER
Frederick Lux, Middlebury, Conn., assignor to The Lux Clock Manufacturing Company, Inc., Waterbury, Conn., a corporation of Connecticut
Application March 17, 1948, Serial No. 15,469
10 Claims. (Cl. 161—15)



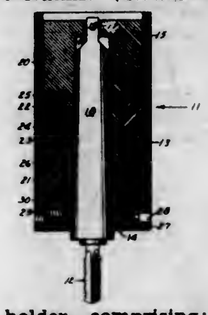
1. A timer comprising a case, clock mechanism therein, including a driven shaft, a dial rotatably mounted with respect to the case, means for rotating the dial from said shaft at a speed in excess of that of the shaft, a second rotatably mounted dial driven by said shaft at a slower speed than the first dial, fixed indicating means on the case to cooperate with said dials, said first dial being disposed between said second dial and the clock mechanism, and said second dial having a transparent portion through which the inner dial may be seen.

2,593,906
FORCE MEASURING DEVICE OF THE DIAPHRAGM TYPE PROVIDED WITH A VALVE FOR AUTOMATICALLY APPLYING A BALANCING PRESSURE TO THE DIAPHRAGM
Alfred A. Markson, Mount Lebanon, Pa., assignor, by mesne assignments, to Hagan Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application June 10, 1947, Serial No. 753,749
1 Claim. (Cl. 137—153)



A force measuring device comprising a housing provided with a diaphragm and means for clamping the marginal edge thereof to said housing to form a pressure-tight chamber between the free portion of the diaphragm and said housing, the middle portion of said diaphragm having a rigid bearing member to which a force to be measured may be applied, a valve actuated by said diaphragm having neutral, exhaust and pressure admitting positions for controlling the value of pressure established in said chamber, said valve admitting fluid pressure when in the admitting position, exhausting pressure therefrom in the exhaust position and maintaining pressure therein when in neutral position, said valve being actuated to said positions according to whether the force to be measured is equal to, less, or greater than the force exerted by said pressure on said diaphragm, a thrust bar having one end disposed to act on said bearing member, and a fulcrum comprising a rigid member secured to the diaphragm housing and being adjustable in a direction lengthwise of the thrust bar, a rigid member secured to said bar and being adjustable lengthwise of said bar, and a flexible tension member secured to said rigid members.

2,593,907
SAFETY FRICTION TOOLHOLDER
Frank M. Marshall, Green Bay, Wis.
Application May 31, 1949, Serial No. 96,361
6 Claims. (Cl. 279—1)

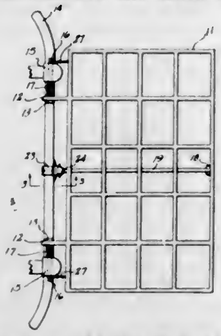


1. A tool holder, comprising: an elongated socket member having an elongated tapered bore terminating in a tang receiving slot whereby to receive a tapered tool shank and its associated drivable tang, said socket being provided with threads on one end thereof and an outstanding flange on the tang receiving end; an elongated sleeve, adapted to be held in a turret, slidably mounted on said socket member, said sleeve having an inwardly projecting flange on the end remote from said outstanding flange interlockably related to said outstanding flange; a plurality of annular friction elements interposed between said flanges, said frictional elements being disposed to surround said shank; and an annular nut threadedly engaged with the threads on said socket and in abutting relation to said sleeve, operative to adjust the frictional engagement between said parts.

2,593,908
AUTOMOBILE BUMPER ATTACHABLE RACK
Armando P. Monteverde, Caracas, Venezuela
Application August 20, 1948, Serial No. 45,322
1 Claim. (Cl. 224—42.03)

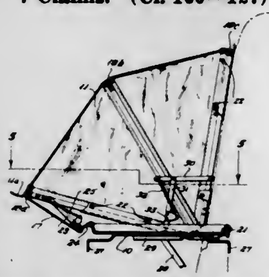
A luggage rack for attachment to the rear bumper and bumper guards of an automobile comprising a grate-like load-supporting frame having one end arranged in confronting relation with respect to said bumper, laterally-projecting pin members on the confronting end of said frame and rotatably engaging each of said bumper guards for pivotally connecting the

frame to said bumper for movement from a vertical position to a horizontal position, spring means operatively connected to each of said pin members for cushioning the frame against movement laterally, a rigid tie bar positioned beneath and intermediate the sides of said frame



when the latter is in the horizontal position and having one end pivotally secured to the frame adjacent the other end thereof, and clamping means on the other end of said tie rod detachably engaging the portion of the bumper adjacent thereto.

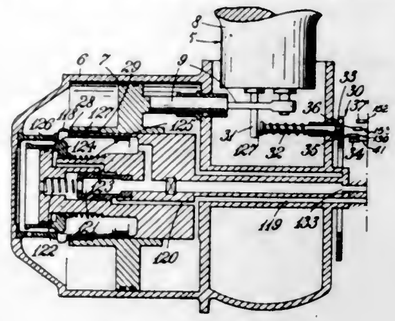
2,593,909
CANOPY STRUCTURE FOR ATTACHMENT TO TRAYS
Henry W. Moreland, Camden, Ark.
Application November 7, 1949, Serial No. 125,957
7 Claims. (Cl. 160—127)

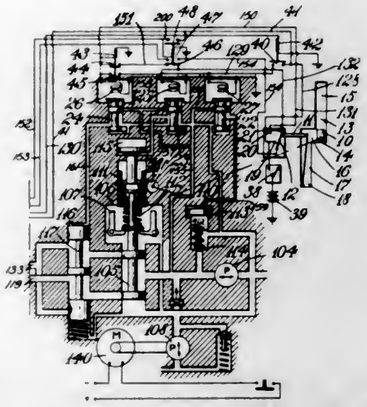


1. A canopy structure for attachment to a rectangular tray, said tray being supported from an automobile in substantially the plane of the lower edge of a window opening therein with one edge of said tray close to the automobile body, said canopy structure including a canopy, means to support said canopy from the edges of said tray contiguous with the edge of said tray close to said automobile body and at points on said contiguous edges near to the juncture of said contiguous edges with said edge close to said automobile body for pivotal movement from an extended position in which the said canopy covers the tray and the window opening, to a folded position in which the canopy lies substantially in the plane of the tray.

2,593,910
VARIABLE PITCH REVERSIBLE PROPELLER
Edward Hollingworth Morris, Ashtead, Ellis Danvers, Gloucester, and Thomas Edward Godden, Cheltenham, England, assignors to Rotol Limited, Gloucester, England, a British company
Application August 30, 1948, Serial No. 46,874
In Great Britain September 2, 1947
5 Claims. (Cl. 244—81)

1. The combination with a variable-pitch, reversing, hydraulically-operated propeller for an aeroplane having an undercarriage and an engine to drive the propeller, of a constant-speed unit to control the pitch adjustment of the blades of the propeller, a single control to adjust, over a range, both the power output of the engine and the speed setting of the constant speed unit in the positive and negative pitch ranges, means to over-ride the constant speed unit comprising a valve controlled motor operatively connected to





the constant speed unit whereby the blades are moved from one pitch range to the other, electrical means operatively associated with said valve to control said over-riding means, said electrical means being actuated by the single control at its slow-running position of the engine and switch means operated by the aeroplane undercarriage to render said electrical control means inoperative, except when the undercarriage supports the aeroplane.

2,593,911
DIAZOTYPES CONTAINING A CONDENSATION PRODUCT OF DICYANDIAMIDE WITH FORMALDEHYDE AND A SALT OF AMMONIA OR AN AROMATIC AMINE
Fred W. Neumann, Nazareth, and William W. Williams, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 31, 1948, Serial No. 68,726
8 Claims. (Cl. 95—6)

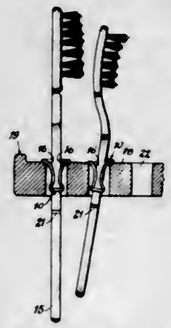
1. Diazotype photoprinting material having a light sensitive layer containing a light sensitive diazo compound, and a water-soluble condensation product of formaldehyde with dicyandiamide and with a member of the group consisting of salts of ammonia and of aromatic amines.

2,593,912
PHOTOGRAPHIC FILM CONTAINING HARDENED GELATIN
Michael T. Orinik, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Application November 19, 1948, Serial No. 61,137
5 Claims. (Cl. 95—9)



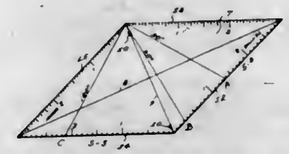
1. A photographic film comprising a cellulose derivative support selected from the class consisting of cellulose ethers and esters, a gelatino silver halide emulsion layer containing an organic hardening agent in an amount ranging from 0.5 gram to 7.5 grams per kilogram of dry gelatin and a gelatin subbing layer between said support and said emulsion layer, said subbing layer containing in addition to gelatin a dispersion of a cellulose derivative and a hardening agent of the class consisting of formaldehyde and glyoxal, the proportion of the latter hardening agent in relation to the weight of dry gelatin in said subbing layer being in an amount ranging from 0.5 gram to 12.5 grams per kilogram of dry gelatin and at least equal to and not exceeding by more than 5 grams per kilogram of dry gelatin the proportion of the organic hardening agent, in relation to the weight of dry gelatin, in said emulsion layer.

2,593,913
ADJUSTABLE CLIP SUPPORT FOR TOOTHBRUSHES
Nathan A. Oscher, Brooklyn, N. Y.
Application June 4, 1948, Serial No. 31,104
1 Claim. (Cl. 24—261)



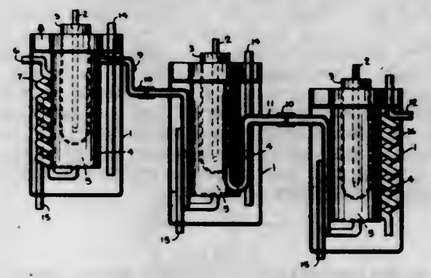
A supporting clip adapted to hold a toothbrush which comprises two parallel, horizontally disposed members spaced apart a distance less than the thickness of the article to be supported, said members being formed at the ends thereof so as to provide projections extending horizontally outwardly from said clip, an arm connected to each of said projections extending downwardly from and inwardly of said members, the arms connected to adjacent projections of the two members being parallel to each other and forming a pair, the arms forming each pair extending toward the arms forming the other pair, curved portions formed at the lower ends of said arms, a longitudinally extending section connecting the lower ends of each of the pairs of arms of said clip, the section connecting one pair lying parallel to the section connecting the other pair, both sections being disposed transversely to said members and being spaced apart from each other a distance less than the thickness of the article to be supported, said clip being formed of a single piece of resilient material bent into the specified shape, said clip being adapted to be adjustably connected to a tooth-brush, said arms being so formed that said members are urged toward each other and each section is urged toward the other when said clip is in engagement with a tooth-brush.

2,593,914
ANALYTICAL RHOMBUS
John C. Palitto, Akron, Ohio
Application December 20, 1949, Serial No. 134,069
1 Claim. (Cl. 33—104)



An instrument for plotting three dimensional graphs comprising a plate having four straight edges of equal length and having its opposite edges in parallel spaced relationship to each other and forming equal obtuse angles at two opposite corners of said plate and complementary equal acute angles at the other two corners, said plate being provided on one face thereof with scales extending one along each edge thereof, the meeting points of said edges at the obtuse corners of said plate being the zero point of the corresponding scales, said plate also having on said one face thereof a first straight line extending between the obtuse corners thereof and a second straight line extending between the acute corners thereof and being marked with a plurality of angle lines extending from one of said obtuse corners and terminating in spaced points along the edges of said plate remote from said one obtuse corner.

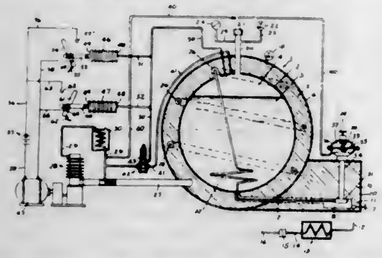
2,593,915
ELECTROOSMOTIC APPARATUS
Federico Pavelka, Milan, Italy
Application June 8, 1948, Serial No. 31,741
In Austria June 27, 1947
2 Claims. (Cl. 204—257)



1. In an electro-osmotic cell for the purification of liquids an inner circular anode compartment, an outer quadrangular cathode compartment surrounding said inner circular compartment and a circular inter-electrode treatment chamber between said inner anode compartment and said outer cathode compartment, circular diaphragms separating said circular treatment chamber, said inner circular, and said outer

quadrangular compartment, a first insulating pipe helically formed on the greater part of its length located in a first corner of said cathode compartment and connected to the lower portion of said treatment chamber for the supply thereinto of the liquid to be purified, a second insulating pipe for the discharge of the liquid connected with the upper portion of said treatment chamber and a third insulating pipe located in a second corner of said cathode compartment and opening into the same for the supply of a rinsing fluid and a fourth insulating pipe in still another corner of said cathode compartment and opening into the same for the discharge of the rinsing fluid.

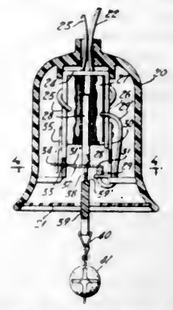
2,593,916
APPARATUS AND METHOD FOR TRANSPORTING AND DISPENSING LIQUEFIED GAS
Peter Peff, Reno, Nev.
Application March 5, 1949, Serial No. 79,784
10 Claims. (Cl. 62—1)



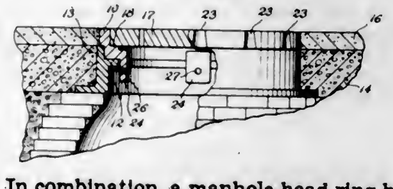
6. Apparatus for transporting and dispensing liquified gas having a boiling point temperature below 273° K., which comprises a thermally insulated container for holding a charge of said gas below its boiling point temperature under the pressure of such gas in said container in the gaseous phase, means for withdrawing gas in said gaseous phase from said container and for compressing to an elevated pressure above that of the pressure in said container, a pipe connected with said means extending into said container and into said charge in direct heat transfer relationship to the latter for conducting the gas from said means into said charge for liquifying said gas at said elevated pressure, an expansion valve in said pipe submerged in said charge for releasing the liquified gas in said pipe into said charge and container, a pressure controlled element movable for opening and closing said valve, said element being in communication with the gas in gaseous phase in said container for actuation thereof by the pressure of said gas for opening said valve upon a predetermined increase in the pressure of said gas and for closing said valve upon a predetermined decrease in said latter pressure.

2,593,917
ELECTROMAGNETICALLY OPERATED BELL JINGLER
Frank Pettit, Union, N. J.
Application June 7, 1950, Serial No. 166,661
15 Claims. (Cl. 177—7)

1. In a jingler, in combination, a string of bells adapted to be sounded by sudden up and down movements, a solenoid, an armature gravity biased to one position by the weight of the string of bells and magnetically shifted to another position in which it lifts the string of bells, and an armature operated switch in the circuit of the solenoid, the switch being opened when the armature is magnetically attracted and closed when the armature is released.



2,593,918
MANHOLE EXTENSION
Howard Redman, Erlanger, Ky.
Application September 29, 1948, Serial No. 51,661
2 Claims. (Cl. 94—34)

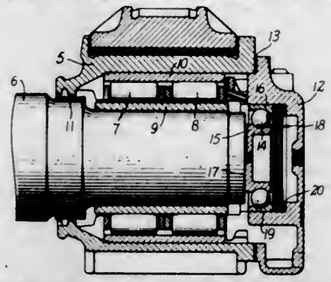


2. In combination, a manhole head ring having a hollow body, an annular cover seat flange projecting inwardly from the hollow body, and a rim surounding said cover seat, said head ring being mounted in an opening in a main pavement, an adapter ring having an annular face resting on the cover seat, an annular shoulder resting on the rim of the head ring, and an annular shoulder within the adapter ring providing a seat to accommodate a manhole cover, said adapter ring including a plurality of anchorage lugs attached to the lower side of the adapter ring and extending below the head ring cover seat, said lugs being provided with threaded transverse openings, the axes of said openings extending upwardly and outwardly of the adapter ring, and screws in said openings, said screws bearing on the underside of the head ring cover seat flange to draw the adapter ring down tightly on the head ring, the rim of said adapter ring being provided with a plurality of spaced vertically extending flutes on its outer surface, and a secondary pavement above the main pavement and extending into the flutes of the adapter ring to lock the adapter ring against turning in the head ring.

2,593,919
THRUST BEARING
Harry R. Reynolds, New Britain, Conn., assignor to The Fafnir Bearing Company, New Britain, Conn., a corporation of Connecticut
Application March 20, 1948, Serial No. 16,060
7 Claims. (Cl. 308—41)

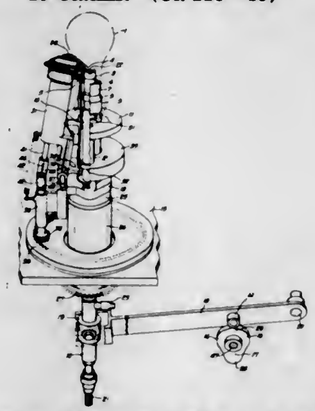
1. In a device of the character indicated, a bearing box having an enlarged guide bore at one end thereof, a bearing therein for radial loads, an axially movable shaft radially supported by said bearing, thrust-receiving bearing means including radially disposed inner and outer ring members with anti-friction elements

therebetween, said outer ring being slidably guided in said bore and said inner ring integrally including an axial end surface of relatively extended area for end contact with said shaft, and spring means located by said bore



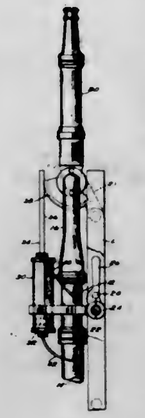
and resiliently and circumferentially continuously urging the outer of said ring members with said inner ring in constant contact with the adjacent end of said shaft, whereby said thrust-bearing means may be urged as a unit toward said shaft.

2,593,920
BRUSHING APPARATUS FOR BURNERS
Kenneth W. Reynolds, Mayfield Heights, Ohio, assignor to General Electric Company, a corporation of New York
Application July 14, 1950, Serial No. 173,701
10 Claims. (Cl. 118—48)



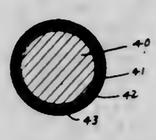
6. A burner system including a brushing apparatus for removing products of combustion from the outer surface of a burner comprising a rotatable holder for supporting a hollow article, a longitudinal movable spindle extending through the holder along the axis of rotation thereof, a burner mounted upon the extending end of the spindle, means engaging a midportion of the spindle for supporting and rotating the holder, means for moving the spindle longitudinally to position the burner at operative relation to an article held by the holder and at a retracted position, a rotatable brush, a brush-supporting lever having an arm supporting said brush and pivoted on the holder support means for movement toward and away from the burner at the retracted position thereof, said lever having an operating arm extending to a position adjacent the spindle, and means attached to the spindle and engaging the operating arm of the brush-supporting lever at the retracted position of the spindle for causing said lever to advance the brush against the burner.

2,953,921
NOZZLE PIPE FOR USE WITH AERIAL LADDERS
Elton E. Robinson, Concord, N. H., assignor to Samuel Eastman Co. Inc., Concord, N. H., a corporation of New Hampshire
Application April 4, 1950, Serial No. 153,909
2 Claims. (Cl. 169—25)



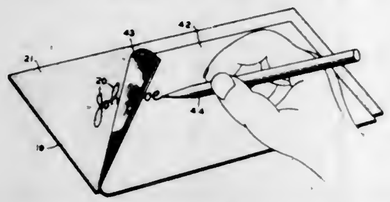
1. A demountable and portable pipe adapted for use with an aerial ladder truck comprising a Y-shaped yoke having a hose connection at the stem member thereof, a manually operable clamping mechanism on the yoke for securing it to spaced rungs of the ladder in substantially parallel relation to the plane of said rungs, a nozzle member pivotally received between the arms of the yoke, a double-acting hydraulic cylinder mounted on the stem portion of the yoke at its side which is remote from the ladder when secured by the clamping mechanism, the cylinder having a movable member positively connected to the nozzle member for turning the same, the cylinder having flexible-hose connections for supply of motive fluid thereto from remote fluid supply means on the truck under control of a suitable remote control valve.

2,593,922
INSULATED ELECTRICAL CONDUCTOR
Preston Robinson, Williamstown, and Colin C. Reid, Boston, Mass., assignors to Sprague Electric Company, North Adams, Mass., a corporation of Massachusetts
Application April 16, 1947, Serial No. 741,887
2 Claims. (Cl. 204—38)



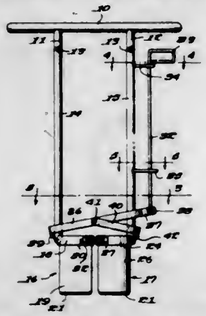
1. An insulated electrical conductor comprising a metallic conductor of the group consisting of aluminum, copper, tin, lead and zinc on the surface of which is an in situ formed layer of a ferrocyanide of the metal at said surface, and upon which is a polyvinyl resin bonded to said ferrocyanide layer.

2,593,923
METHOD OF MAKING A TELEGRAPHIC FACSIMILE TRANSMITTING BLANK
Daniel P. Roddin, Brooklyn, and Bernard L. Kline, Manhasset, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application November 26, 1948, Serial No. 62,184
1 Claim. (Cl. 117—45)



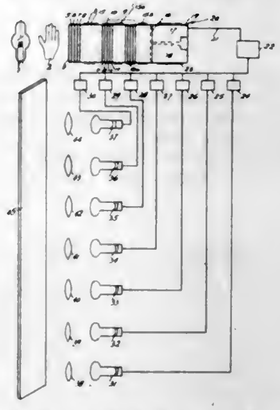
The method of preparing a facsimile message transmitting blank embodying a conductive base sheet having thereon a thin adherent surface coating of a decomposable insulating facsimile recording pigment suspended in a water-insoluble organic adhesive binder selected from the class consisting of linseed oil, tung oil, Perilla oil, fish oil and soya bean oil, the amount of pigment present in said coating being sufficient to mask the underlying conductive base sheet, the thickness of said coating being not greater than approximately .0008 to .0015 of an inch, and adapted to be scanned by an electrical stylus of a facsimile transmitter, which comprises superimposing upon the insulating surface coating of the blank a transfer sheet having a coating of graphite dispersed in a waxy vehicle, the amount of graphite by weight being at least as much as that of the waxy vehicle in said dispersion, and applying sufficient pressure to selected elemental areas of the transfer sheet to cause a small amount of the graphite dispersion to be transferred to and embedded in corresponding elemental areas of the insulating surface coating of the blank to a depth such that it is substantially in contact with the underlying conductive base sheet to delineate by elemental conducting areas of said graphite dispersion embedded in an insulating background the subject matter to be transmitted.

2,593,924
SMALL TREE AND PLANT EXTRACTOR
Warren G. Rothkamm, Lafayette, La.
Application February 2, 1950, Serial No. 141,938
1 Claim. (Cl. 294—50.7)



A gardener's tool comprising a handle, a pair of spaced parallel lugs projecting from said handle, a leg having one end pivotally connected to each of said lugs, a cutting member operatively connected to the other end of each of said legs and mounted for movement toward and away from each other, each of said cutting members comprising an arcuate collar secured to said leg, a pair of arcuate blades secured to each of said collars, each of said blades being provided with a sharp edge thereon, a pull rod slidably connected to one of said legs and provided with a grip thereon, link means connecting the other end of said pull rod to said cutting members for moving said cutting members toward each other, a pair of spaced ears projecting from each of said collars, a guide pin extending between said ears, and a coil spring circumposed on each of said guide pins and interposed between said ears for urging said cutting members away from each other.

2,593,925
DEVICE FOR COLOR PROJECTION OF INVISIBLE RAYS
Edward Emanuel Sheldon, New York, N. Y.
Application October 5, 1948, Serial No. 52,832
6 Claims. (Cl. 178—6.8)

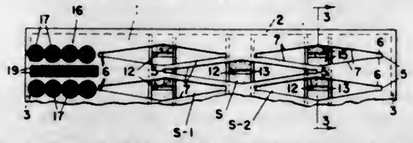


6. A device for producing color X-ray images comprising in combination X-ray means for irradiation of the examined body, an X-ray sensitive pick-up tube having a photocathode consisting of a fluorescent layer, a light transparent separating layer and a photoemissive layer, said tube for receiving X-ray images of said body and converting said X-ray images into electrical signals, means for segregating said signals according to their amplitude, means for assigning different chromatic values to said segregated signals, and means for reconverting said signals into multicolor images.

2,593,926
PHENOL-FORMALDEHYDE CONDENSATION PRODUCTS AND PROCESSES OF PRODUCING SAME
William G. Simons, Rockridge, Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 13, 1948, Serial No. 38,558
14 Claims. (Cl. 260—57)

1. A process for the preparation of water-soluble condensation products comprising reacting by heating at a temperature of about 80° C. to the reflux temperature for about ½–1 hour, 1 mol of a phenolic compound, selected from the group consisting of phenol and alkyl substituted phenols, said phenolic compound being monocyclic, containing one nuclear hydroxyl group and having at least three replaceable hydrogen atoms joined to three nuclear carbon atoms, with less than 1 mol of formaldehyde but not substantially less than 0.5 mol of formaldehyde in an aqueous medium in the presence of an acidic catalyst, then cooling to about 40–50° C. and then adding formaldehyde so that for each mol of the phenolic compound there is more than 1 mol and substantially not more than 3 mols of formaldehyde and continuing the reaction by heating at about 80° C. in the presence of a basic catalyst until a viscosity of about 400 to 1100 centipoises at 25° C. is reached.

2,593,927
CABINET FOR SOUND RECORD DISKS
Edward J. Slattery, Montgomery County, Md.
Application October 14, 1947, Serial No. 779,819
1 Claim. (Cl. 211—40)

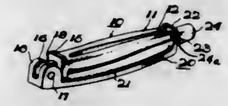


In a disc holder, the combination of a horizontal guide member provided with a plurality of lozenge-shaped openings having rectilinear edges with slots having rectilinear edges extending from the acute-angle ends of said openings, the said edges of said slots being parallel with the longitudinal axes of the openings passing through said ends, said openings being arranged in three sets, the openings of each set having their transverse axes passing through their obtuse-angle ends lying in a common vertical plane, the said common vertical planes of the three sets being parallel, the openings of two of said sets having their said longitudinal axes lying in common vertical planes, the openings of the third set being rested between the openings of said two sets and the slots of said third set extending to the planes in which lie the transverse axes of said two sets; and three supporting members over which said guide member is so mounted that the said common vertical planes passing through the transverse axes of the three sets of openings, respectively, pass through the longitudinal axes of the three supporting members, respectively, each of said supporting members having a plurality of grooves in its upper face, and the longitudinal axes of the grooves of each supporting member lying in the vertical planes passing through the longitudinal axes of the openings of one of the sets in the guide member.

2,593,928
DIMENSIONALLY STABLE DIAZOTYPE PHOTOGRAPHIC FILM AND PROCESS FOR MAKING IT
Sam C. Slifkin, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application October 9, 1947, Serial No. 778,748
5 Claims. (Cl. 95—9)

1. A dimensionally stable photoprinting material, consisting of a self-sustaining pre-formed film of a water-insoluble cellulose ether, having at least one surface thereof impregnated with an aqueous solution of a diazotype sensitizing composition containing a gamma-lactone of 4 to 6 carbon atoms in an amount constituting at least 5% of the solvent components.

2,593,929
HAIR CURLER
Sydor Solop, Brackney, Pa.
Application September 28, 1949, Serial No. 118,231
1 Claim. (Cl. 132—41)



A hair curler comprising a retainer and a mandrel pivoted and latchable together and so shaped and so proportioned as to be axially alignable in one relative position of the retainer and mandrel, and in substantially parallel relation in latched position, said retainer including a bowed base bar having an upstanding head at one end with a transverse latch member and a pair of spaced apart curved lugs at the opposite end with aligned hinge pin openings, a hinge pin engaging the said openings, said mandrel being split to form spaced apart arms, said arms being shaped to interfit into latching engagement with said latch member on the bowed base head, a curl stop adjacent the hinge pin end of the mandrel, the pivot connection between the parts comprising an axially extended apertured lug between said curved lugs, said lug extending longitudinally from the curl stop, said lug being relatively longer than the radii of the said curved lugs, whereby the relative swinging of the parts from latched to unlatched aligned position is permitted, and a combined latch release and mandrel turning knob formed integrally from the exterior of the bowed base head.

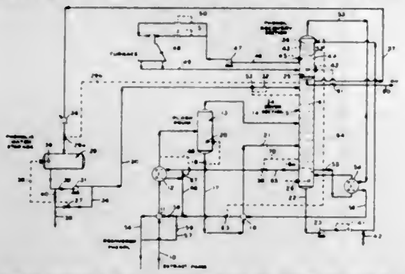
2,593,930
PROCESS OF PRINTING FABRICS WITH ARYL SULFONHYDRAZIDES
Joseph A. Sprung and Willy A. Schmidt, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application September 20, 1951, Serial No. 247,551
5 Claims. (Cl. 8—71)

1. A process of printing and dyeing textile fabrics by developing azo dyes on the fabric which comprises padding the textile fabric with a composition containing a coupling component, printing over with a 2-aryl sulfonhydrazide dissolved in a print paste, and introducing the padded textile fabric into an atmosphere selected from the class consisting of air and steam and air.

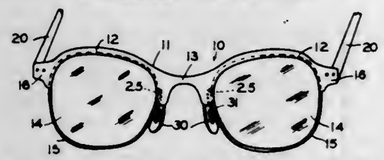
2,593,931
METHOD OF RECOVERING SELECTIVE SOLVENTS
Walter V. Stearns, White Plains, N. Y., assignor to The M. W. Kellogg Co., Jersey City, N. J., a corporation of Delaware
Application December 31, 1947, Serial No. 795,061
9 Claims. (Cl. 202—42)

1. In the fractionation of a solvent extract solution containing extract, a lower-boiling solvent and an anti-solvent which has a boiling point lower than said solvent, wherein said solution is subjected to fractional distillation in a vertically extended fractionation zone to separate a top distillate fraction containing substantially all of said anti-solvent, and wherein a residue of solvent and extract is withdrawn from the lower end of said fractionation zone, the improvement which includes the steps of: withdrawing a liquid

sidestream from said fractionation zone at a point sufficiently below the point of introduction of said solvent extract solution to obtain a liquid substantially free of said anti-solvent; heating said liquid sidestream to vaporize a substantial part of the solvent content thereof; returning at least part of said solvent vapor to said fractionation zone at a point not higher than the point of withdrawal of said liquid sidestream, and withdrawing a vapor sidestream of substantially pure solvent from said fractionation zone at a point sufficiently below the point of introduction of said extract solution and sufficiently near the point of introduction of said solvent vapor to be substantially free of said anti-solvent.



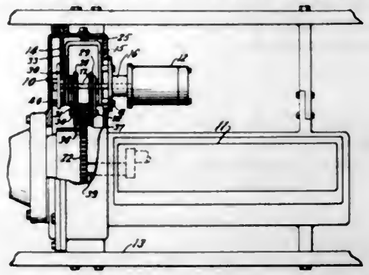
2,593,932
SPECTACLE FRAME
Raymond F. E. Stegeman, Greece, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application August 14, 1947, Serial No. 768,642
3 Claims. (Cl. 88—41)



1. In a spectacle frame, the combination of a metallic eyewire surrounding a lens, the temporal side of the eyewire being split, upper and lower connectors on the adjacent ends of the eyewire, a screw for detachably uniting the connectors, a non-metallic frame member extending along the top of the eyewire and partially down the sides thereof and below the connectors, said frame member having a groove in which the eyewire is seated and secured, means on the nasal side of the eyewire for securing it to the frame member, a hinge plate secured to the temporal portion of the frame member, the connectors extending rearwardly of the plane of the frame member, the upper connector being secured to the hinge plate, the rear face of the frame member having a cut-away portion intersecting the groove and extending downwardly from the lower connector whereby the lower connector may be moved downwardly for removal and insertion of the lens.

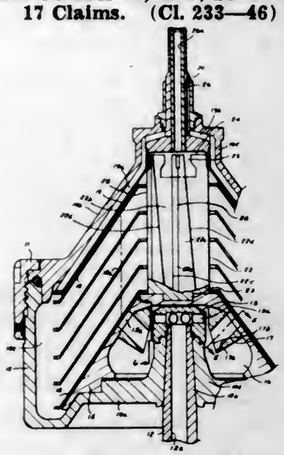
2,593,933
PLANETARY POWER TRANSMISSION DEVICE
Raymond C. Strawn, Chicago, Ill.
Application July 3, 1947, Serial No. 758,909
17 Claims. (Cl. 74—8)

1. In a planetary motor starting device, the combination of a support, a starter motor carried by said support and having a drive shaft, a housing carried by said support and having bearing surfaces concentric with said drive shaft, a planetary frame mounted for rotation about said drive shaft on said bearing surfaces of said housing, a planetary gear rotatably mounted on said planetary frame on an axis parallel to, but spaced from, a drive shaft axis, a driving gear carried by the drive shaft and meshing with a driven gear connected to said planetary gear, an internal combustion engine carried by said support and provided with a starting gear located



to mesh with said planetary gear, the spacing of the gear axes being such that the axes of the planetary gear, driving gear, and starter gear may be in the same plane when the starter gear is actuated, and the planetary gear may pass through starter gear meshing position as the planetary frame rotates, the said starter motor rotating said planetary frame to bring the planetary gear into mesh with the starter gear, and thereafter the planetary gear driving the starter gear, while the planetary frame remains in meshing position.

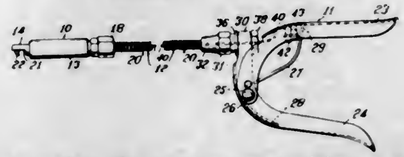
2,593,934
CENTRIFUGE FOR SEPARATING CREAM FROM COLD MILK PRODUCTS
George J. Strezynski, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application October 20, 1949, Serial No. 122,413
17 Claims. (Cl. 233—46)



1. In a centrifugal separator adapted especially for the separation of cream from cold milk products, and which includes a rotatable bowl having a separating chamber, an inlet opening for feeding the milk product to said chamber, and an outlet opening communicating with the peripheral part of the chamber for discharging separated skim milk therefrom, and a series of conical discs

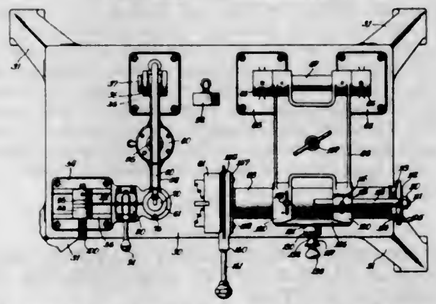
spaced apart in the separating chamber, the improvement which comprises a tubular shaft in the bowl extending vertically through the discs along the rotation axis of the bowl and having a plurality of generally vertical cream channels each of which is gradually and continuously enlarged from the base portion of the shaft to its top portion, said channels thereby forming upwardly flaring discharge passages surrounded by the discs, the bowl having at its upper portion a cream outlet communicating with the upper ends of the flared passages.

2,593,935
COTTER PIN PULLER
Martin A. Sweat, Waycross, Ga.
Application June 27, 1949, Serial No. 101,531
2 Claims. (Cl. 29—247)



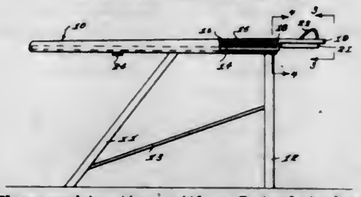
1. A cotter pin remover comprising a sleeve having a bolt slidably received therein, means actuating said bolt, said means including a lower handle means having one end thereof bifurcated, bolt means connected to said one end having an opening therethrough, a flexible cable housing connecting said sleeve and said bifurcated end portion, an upper handle means having a bifurcated end portion partially connected to the lower handle intermediate the ends of said lower handle, a lug mounted on said upper handle having an aperture therein, a flexible cable extending through said housing connected at one of its ends to said bolt, the other end of said cable extending through the bifurcated portions of said handle, through said opening, through said lug aperture, and being swivelly connected to said lug, said aperture and said opening being in substantial alignment.

2,593,936
WORK HOLDER FOR CYLINDRICAL ARTICLES
Ralph R. Teetor, Hagerstown, Ind., assignor to Perfect Circle Corporation, a corporation of Indiana
Application November 4, 1946, Serial No. 707,746
8 Claims. (Cl. 90—59)



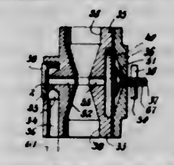
6. A work holder for supporting a hollow generally cylindrical article while predetermined areas are being knurled on the peripheral surface thereof, comprising a spindle having means on one end thereof for supporting the article coaxially therewith, means for rotatably supporting the spindle to rock the article about its axis, and adjustable means for limiting the rotation of said spindle comprising a bar mounted on said supporting means and extending parallel to said spindle, and means carried by the spindle and providing circumferentially spaced lugs adapted to engage said bar to limit the rocking movement of the spindle.

2,593,937
COMBINED IRONING BOARD AND IRON HOLDER
Frances H. Tiller, Carthage, Tex.
Application July 13, 1948, Serial No. 38,499
2 Claims. (Cl. 38—107)



1. The combination with a flat plate having an ironing surface, and an upstanding wall on one end of said plate of a height adapted to accommodate the thickness of an ironing pad, of an iron holder in the form of a second flat plate having one end secured to the upper edge of said wall, said second flat plate being provided with a well extending inwardly from a point adjacent the other end thereof and terminating at a point spaced from said one end of said second plate for the reception of an iron therein, the bottom of said well being provided with a plurality of ventilating apertures for the dissipation of heat therethrough, the side edge of said well adjacent said other end of said second plate being shaped complementary to the shape of the base of an iron, and a vertically disposed abutment positioned along said side edge and having the lower end secured thereto, the upper end of said abutment being turned inwardly to partially overlie said well and embracingly engage the base of an iron when supported in said well.

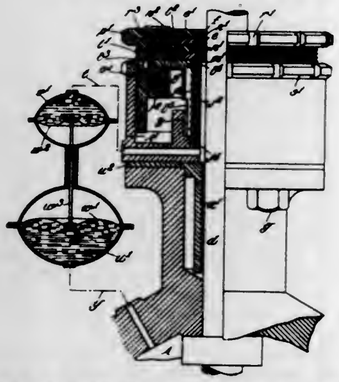
2,593,938
AUTOMATIC OBTURATOR FOR THE ADDUCTION OF FLUIDS
Marie Thérèse Tixhon, Herstal, and Eugene Laguesse, Leige, Belgium
Application July 27, 1948, Serial No. 40,974
In Belgium July 28, 1947
1 Claim. (Cl. 251—135)



In an automatic fluid-control valve, a hollow body subjected interiorly to the fluid pressure, an outlet from the body, a flexible diaphragm arranged laterally in the body having its inner face, in contact with the fluid, subjected to the difference between the fluid pressure and the pressure at the outlet, a movable closure for the outlet subjected to the outlet pressure in opposing direction to the effective forces acting on the diaphragm, a positive connection between the closure and the diaphragm comprising a pair of ties arranged in parallel outside the body, the

body being of tubular shape, a first cross-brace connected to one end of each tie and to the closure, a second cross-brace connected to the other end of each tie, a push-rod engaging at one end with the diaphragm and formed at the other end with an exterior adjustment controlling means, and a threaded connection between the push-rod and the second cross-brace, thereby to provide movement of the closure in response to movement of the diaphragm, and said exterior means controlling the adjustment of the closure relatively to the outlet.

2,593,939
PACKING FOR ROTATING SHAFTS
Arthur Ronald Trist, Woking, England
Application June 25, 1946, Serial No. 679,183
In Great Britain July 3, 1945
8 Claims. (Cl. 286—9)



1. Packing means for restraining the flow of liquid along the journal of a rotating shaft comprising a flat-surfaced rigid flange mounted on the shaft, a longitudinally extendible chamber surrounding the shaft, stationary anchoring means for one end of the chamber, a flat-surfaced rigid apertured disc mounted on the free end of the chamber with its flat rigid surface disposed adjacent to the flat rigid surface on the flange, anti-friction rings with flat parallel rigid surfaces disposed between the flat rigid surface on the chamber and the flat rigid surface on the flange to seal one end of the chamber, centrifugally responsive means on the periphery of each anti-friction ring to limit the speed of rotation of the ring, first spring means for pressing the flat rigid surfaces together, second spring means for pressing the flat rigid surfaces apart, a fluid pressure barrier surrounding the shaft adjacent to the stationary anchoring means to seal the other end of the chamber, means for feeding lubricating liquid to the interior of the extendible chamber at a pressure that is automatically maintained in excess of the pressure of the liquid to be restrained, and a stationary casing for supporting the barrier, the anchoring means, the first spring means and the second spring means.

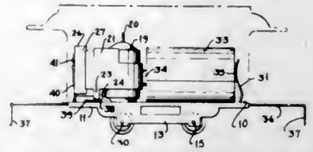
2,593,940
ANIMAL LEASH
John Milton Van Meter, Los Angeles, Calif.
Application January 24, 1948, Serial No. 4,180
1 Claim. (Cl. 119—96)

An animal leash, comprising a rigid elongated straight tubular guide and snubbing member adapted to be grasped by the hand and provided at its outer end with a guide passage having an annular flared snubbing surface, a flexible non-elastic leash member having its inner end disposed within said tubular member for relative longitudinal movement therein, said leash member being extended outwardly through said guide passage and having its outer end substantially spaced from said tubular member whereby an intermediate point of said flexible non-elastic leash member has snubbing engagement with said snubbing surface when said leash member has its outwardly extended portion at an angle to said



guide and snubbing member and is free of said snubbing surface when said outwardly extended portion is in a straight co-axial relation with said guide and snubbing member, means on said outer end of said leash member for attaching to an animal collar, and spring means cooperatively arranged between an interior portion of said tubular member and the inner end of said leash member, adapted to be placed under stress through outward pull of said leash member and adapted when stressed to exert a retractive force on said leash member.

2,593,941
REVERSING TOY TROLLEY CAR
Earl T. Van Sciver, Glenside, Pa., assignor to Bachman Bros., Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application July 1, 1950, Serial No. 171,680
7 Claims. (Cl. 46—206)

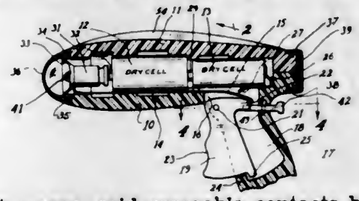


1. In a toy trolley car, a metallic platform, wheels supporting said platform including a pair of driving wheels, a metallic clip upstanding from one end of said platform, a U-shaped metallic strip on said platform adjacent to the other end and in insulated relation with respect thereto, said U-shaped strip being arranged with its bend confronting said clip, a dry cell detachably positioned between said clip and U-shaped strip and having an electrode engaging said U-shaped strip, the other electrode of said dry cell engaging said clip, an electric motor within said U-shaped strip having an armature with a pair of terminals, each of said terminals being adapted to be connected to one end of said U-shaped strip while the other terminal is grounded to said platform, a vertical drive shaft included as a part of said motor, and means for operatively connecting the lower end of said drive shaft to said driving wheels.

2,593,942
PISTOL TYPE FLASHLIGHT HAVING SEPARABLE CASING PARTS AND TRIGGER OPERATED SWITCH
Robert E. Van Vliet and Clarence A. Lesoine, Marshalls Creek, Pa.
Application September 16, 1950, Serial No. 185,192
2 Claims. (Cl. 240—10.62)

1. A flashlight gun comprising separable bottom and top parts, said parts being hollowed

and having respectively upon the opposite ends of the same reduced threaded portions, dry cell means lying within the parts, a socket member connected to the dry cell means and having a lamp bulb therein, internally threaded members engaging the reduced threaded portions of the bottom and top parts whereby to hold the same in coupled relationship, electric circuit means having separable contacts and connected between the socket member and the dry cell means, a trigger element pivotally connected to the bottom part and operable upon the separable contacts to unite them, handle means connected to the bottom part and confining said trigger element, said trigger element having a rearwardly extending projection at its upper end engageable with said separable contacts of the electric

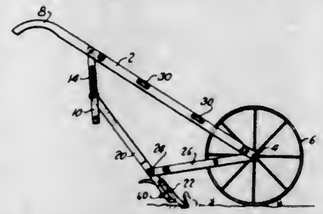


circuit means, said separable contacts being of spring material and normally urging the trigger element downwardly and outwardly, a weighted latch lever pivotally mounted in the handle portion and extending outwardly thereof to be accessible to the thumb of the hand and swingable under the weight thereof either to the right or left, depending upon the manner in which the gun is tilted when being held in the hand, said latch lever being movable under the projection on the trigger element as the flashlight is tilted to the right and to release from the projection on the trigger element as the trigger element is depressed and the flashlight tilted to the left, said depending handle grip portion having a slot in which the lever may operate and said slot having stop wall faces for limiting the pivotal movement of the lever upon the pivot pin.

2,593,943
METHODS OF MOLDING POWDERS OF METAL CHARACTER
Eugene Wainer, Cleveland Heights, Ohio, assignor, by mesne assignments, to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
No Drawing. Application March 1, 1949, Serial No. 79,109
6 Claims. (Cl. 75—22)

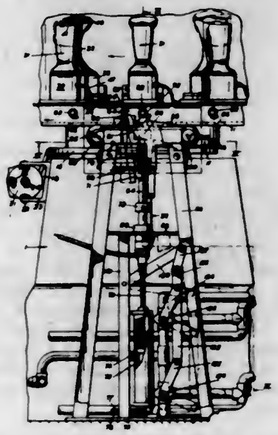
1. The method of making a powdered article of controlled size and porosity which comprises admixing from 50 to 65 parts by volume of powdered metal with 35 to 50 parts by volume of a completely distillable heat fugitive binder composed of a depolymerizable polymerized-monoolefinic thermoplastic resin and a distillable hydrocarbon wax which will not dissolve or swell the resin, said binder ingredients having vaporization temperatures close to the plastic range thereof, heating the admixed mass to a temperature above 100° C. and above the softening points of the binder ingredients but below their vaporization temperatures, extruding the thus heated mass under low pressures to form an article of desired shape, and sintering the article in a non-oxidizing atmosphere at temperatures above the vaporization temperature of the binder but below the melting point of the metal to completely eliminate the binder without action of nascent carbon on the metal.

2,593,944
UTILITY GARDEN TOOL
William M. Walters, Jr., Eleanor, and Walter J. Sampson, Nitro, W. Va.
Application May 9, 1946, Serial No. 668,427
5 Claims. (Cl. 97—59)



1. A garden tool for use as a wheelbarrow or earth tool comprising a pair of shafts spaced at one end and converging at their other end upon a wheel support, a wheel rotatably mounted on the support, a plurality of pairs of hingedly connected members supported by and between the shafts and the wheel support, and an earth working instrument mounted on one of said pairs of members, all of said members being so hinged together as to allow one position for the members in which the earth working instrument may engage the earth, and another position in which two of the members depend downwardly from the shafts to provide two supports for the garden tool and the other members reinforce the supports, the wheel supplying a third support.

2,593,945
MACHINE FOR USE IN THE MANUFACTURE OF FOOTWEAR
Jack Weber and Thomas Parkinson Charnley, Tottenham, London, England
Application November 22, 1949, Serial No. 128,694
In Great Britain December 17, 1948
17 Claims. (Cl. 12—31.6)



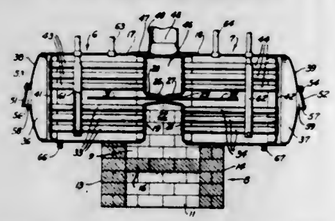
6. A machine for use in the manufacture of shoes, such machine comprising a support; a horizontal rotary table on said support; a plurality of lasts on said table and equiangularly spaced around the axis of rotation thereof; each of said lasts being formed in at least two parts movable relatively to one another in the direction of the length of the last; fluid-pressure-operable last expansion means on each of said lasts for separating the said parts thereof thereby to expand the last; fluid-pressure-operable means

for advancing said rotary table step by step to bring the said lasts successively to a loading position; valve means, actuatable by rotation of the said table, to admit pressure fluid successively to the fluid-pressure-operable means of the said lasts to expand the latter as they leave the said loading position, and also adapted, prior to the return of each last to the said loading position, to relieve the said fluid-pressure-operable last expansion means of the last of fluid pressure; means for closing the said last parts together when the said fluid-pressure-operable last expansion means are relieved of fluid pressure; fluid-pressure-operable table-locking means for temporarily locking the said rotary table against rotation at the end of each rotational advancement thereof; and control valve means for effecting the application of table-advancing fluid pressure to the said table-advancing fluid-pressure-operable means thereby rotationally to advance the table and for subsequently relieving such means of said table-advancing pressure after each rotational advancement of the table, and for also controlling, in appropriate sequence, the application of fluid pressure to, and then the removal of such pressure from, the said fluid-pressure-operable table-locking means, whereby the said rotary table is advanced rotationally step by step and temporarily locked against rotation after each such advancement step.

2,593,946

HORIZONTAL RETURN FIRE TUBE BOILER HAVING A CENTRAL FURNACE WITH DOUBLE OUTLET

Arthur S. Weldy, Mount Eden, Calif.
Application December 31, 1948, Serial No. 68,518
3 Claims. (Cl. 122—54)



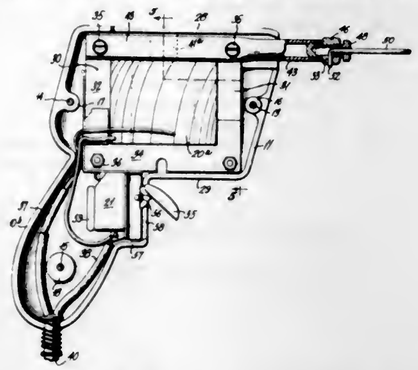
1. A boiler comprising, a pair of containers for fluid to be heated mounted in substantially horizontal alignment with adjacent ends in spaced substantially parallel relation defining a vertical passageway therebetween, means providing a fire box underlying said ends and in registration with said passageway, said ends being formed with extensions defining a substantially horizontal baffle in said passageway positioned for heating by direct radiation from said fire box, and plates of heat-conducting material connected to said extensions and extending interiorly in said containers for heating the contents thereof.

2,593,947

ELECTRICALLY HEATED APPARATUS

Carl E. Weller, Easton, Pa.
Application May 22, 1946, Serial No. 671,455
6 Claims. (Cl. 219—26)

1. An intermittently operable electric soldering tool comprising a two part housing of moldable material having ventilating slots therein and constituting a body portion and a grip portion; a transformer having a substantially rectangular metal frame mounted in said body portion between said slots; a pair of tubular conducting members mounted on said frame but insulated therefrom and projecting beyond the front of said body portion, the secondary winding of said transformer having its ends connected respectively with said tubular members; a hairpin shaped loop of copper wire constituting a soldering tip for

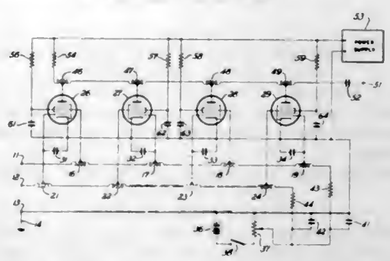


said tool; threaded members connecting the ends of said tip to the ends of said tubular members, a power cord connected with said tool; leads connecting said power cord with said transformer; a switch mounted in said grip portion and connected into one of said leads; and a switch trigger extending from said grip portion for manual control of said switch.

2,593,948

DISTRIBUTED COINCIDENCE CIRCUIT

Clyde E. Wiegand, Oakland, and Owen Chamberlain, Berkeley, Calif., assignors to the United States of America as represented by the United States Atomic Energy Commission
Application March 7, 1951, Serial No. 214,342
6 Claims. (Cl. 250—27)

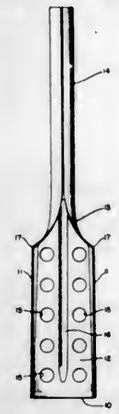


1. In a coincidence circuit of the class described, the combination comprising a plurality of vacuum tubes each having at least an anode, two control grids, and a cathode, a first plurality of series-connected inductances having a tap of each respectively connected to one of the control grids of each of said tubes, a second plurality of series-connected inductances having a tap of each respectively connected to the remaining control grids of said tubes, a third plurality of series-connected inductances having a tap of each respectively connected to the anodes of said tubes, means for impressing a negative bias voltage on the control grids of said tubes, means for impressing an operating voltage across said tubes, and separate means connected to said first and second series of inductances for providing an input thereto.

2,593,949

STIRRING AND SCRAPING DEVICE

Frank B. Williams, Chicago, Ill.
Application August 9, 1950, Serial No. 178,543
2 Claims. (Cl. 259—144)

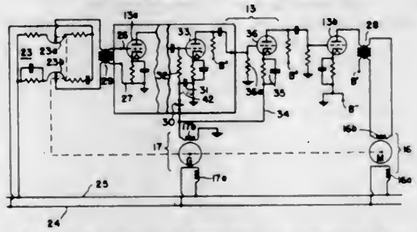


1. A stirring, scraping and mixing device composed of a single substantially rectangular strip of sheet metal, the side edges of one portion thereof being bent to substantially normal inclination to one face of the strip to provide a pair of substantially straight scraper edges and a substantially flat intermediate blade section, the side edges being abruptly folded inwardly intermediate the length of the strip to provide angular scraping shoulders and then gradually overfolded into substantially contiguous relationship at the opposed end of the strip to provide a tubular handle portion.

2,593,950

MOTOR CONTROL SYSTEM

Albert J. Williams, Jr., Philadelphia, Pa., assignor to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 6, 1950, Serial No. 199,537
14 Claims. (Cl. 318—28)

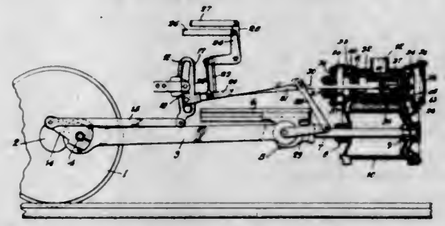


1. A self-balancing system comprising an electrical network unbalanced in response to variation in magnitude of a condition, adjustable impedance means for effecting balance of said network, a motor for adjusting said impedance means, an alternating-current amplifier, an alternating-current tachometer for producing a voltage whose amplitude is proportional to the speed of said motor and whose phase is determined by the direction of rotation of said motor, a gain-controlling circuit for said amplifier including a rectifier, means for applying to said gain-controlling circuit said voltage of said tachometer, means for applying said voltage of said tachometer in phase opposition to an input voltage of said amplifier, and means for controlling the operation of said motor in accordance with the resultant output voltage from said amplifier for operation of said motor at a speed which varies substantially as the square root of the unbalance voltage applied to the input circuit of said amplifier.

2,593,951

LOCOMOTIVE VALVE AND VALVE GEAR, INCLUDING SEPARATE INTAKE AND EXHAUST VALVES AND SEPARATE ACTUATING MECHANISMS THEREFOR IN A SINGLE VALVE CHEST

Paul Willis, Blue Island, Ill.
Application October 11, 1946, Serial No. 702,817
9 Claims. (Cl. 121—146)

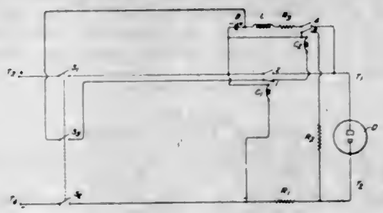


1. In combination, a valve chest for steam engines and the like having steam and exhaust ports, separate admission and exhaust valves mounted for reciprocation in the chest, separate actuating means for each valve, operating connections between the actuating means and the engine adapted to reciprocate the valves in consonance with engine operation, a separate reversing gear interposed between each actuating means and the operating connection and separate control means for the reversing gears, the control means for the reversing gear associated with the steam valve being adapted to change the engine cycle from forward to reverse and vice versa and to vary the position in the engine cycle of the point of admission and cut off, the control means for the reversing gear associated with the exhaust valve being adapted to change the engine from forward to reverse and vice versa only whereby the opening and closing points of the exhaust positions of the exhaust valve in the engine cycle are wholly independent of the point of admission and cut off.

2,593,952

OPERATING CIRCUIT FOR ELECTRIC DISCHARGE DEVICES

Anthony H. Willoughby, Rickmansworth, England, assignor to General Electric Company, a corporation of New York
Application April 29, 1949, Serial No. 90,524
In Great Britain November 26, 1947
3 Claims. (Cl. 315—86)



1. An electric circuit arrangement for assuring immediate restarting of an electric discharge lamp upon restoration of a supply voltage after an interruption thereof, comprising a discharge

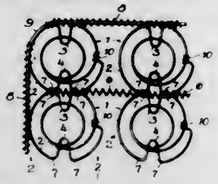
lamp containing an ionizable medium exhibiting a comparatively low starting voltage characteristic when deionized at ambient temperature and also when ionized near normal operating temperature, but exhibiting a high starting voltage characteristic when deionized above ambient temperature, a voltage supply, a main switch provided with a plurality of ganged contacts, a ballasting impedance and a first relay having an operating coil a normally open contact and a normally closed contact, a main discharge circuit constituted by connecting one of said main switch contacts, said normally open relay contact, said lamp and said ballasting impedance in series across said supply, a first control circuit for said first relay constituted by connecting the coil thereof, in series with said one switch contact, across said supply, a subsidiary voltage supply, a current limiting impedance and a second relay having an operating coil and a pair of normally open contacts, a subsidiary supply circuit constituted by connecting said subsidiary voltage supply, in series with said current limiting impedance and through respective contacts of said second relay across respective sides of said lamp, and a second control circuit for said second relay constituted by connecting the coil thereof, in series with said other main switch contact and the normally closed contact of said first relay, across said subsidiary supply.

2,593,953

DOUBLE NOSE COIL SPRING

William E. Wunderlich, Muncie, Ind., assignor to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware

Application September 30, 1949, Serial No. 118,755
4 Claims. (Cl. 5—248)



4. In a coil spring assembly, a plurality of springs each having end coils and intermediate coils with the latter of substantially less diameter than the end coils, each end coil having integrally formed and diametrically aligned indentations projecting inwardly beyond the smallest of the intermediate coils whereby to form stops against which the opposite sides of the intermediate coils impinge when under substantial compression and upon such impingement the load is uniformly distributed to the opposite sides of the spring, and helical members resiliently connecting adjacent springs, said members being wound about the arcuate surface of the end coils only and across the indentations whereby to provide a free hinge action between adjacent springs.

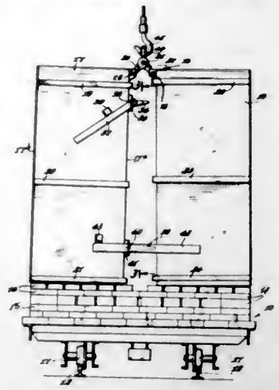
2,593,954

BRICK UNIT FORM

Henry J. Abreu, Newburgh, N. Y., assignor of one-half to Arthur O. Dupuy, Newburgh, N. Y.

Application May 19, 1950, Serial No. 162,867
5 Claims. (Cl. 25—2)

1. An appliance for use as described in connection with a tunnel kiln car, comprising a pair of brick unit forms having adjacent back walls, coupling means for hingedly connecting said forms back to back and near their upper ends, said means including a horizontal rod extended parallel to said back walls above the top edges thereof and a plurality of links all pivotally connected to said rod near their upper ends, near their lower ends some of said links being pivotally connected to the top edge of the back wall of one form and others pivotally connected to the top edge of the back wall of the other form, and manually actuable means between said back walls below their top edges and operable to perform



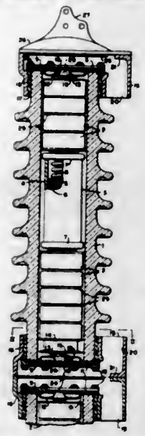
a cam motion thereby to hold the backs of said forms to a predetermined maximum spacing so that such spacing may be maintained during building of a pair of brick units in said forms while they rest on the deck of said car, said links being of such lengths and so rotatively connected to said rod and also to said forms that incidental to a lowering of the appliance to the top of said car thereby to relieve tension on said links the bottoms of the forms are free to conform themselves to the slope peculiar to the deck of said car.

2,593,955

LIGHTNING ARRESTER

Otto Ackermann, Irwin, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 19, 1950, Serial No. 180,391
6 Claims. (Cl. 175—30)



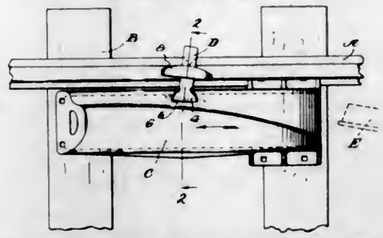
1. A lightning arrester comprising an insulating housing, a plurality of spark gap devices and a plurality of valve-type resistance blocks disposed in a column in the housing, fusible metal discs disposed between the resistance blocks in said column for effecting flashover of the resistance blocks in response to heating of the blocks to a temperature above the highest temperature reached by the blocks during normal operation, means for closing the ends of the housing, means for rupturing the closing means upon the occurrence of excessive gas pressure within the housing, and baffle means for directing gas escaping from each end of the housing axially of the housing toward the other end.

2,593,956

CAR REPLACER

Harry M. Alderman, Chicago, Ill.

Application February 6, 1945, Serial No. 576,418
5 Claims. (Cl. 104—274)



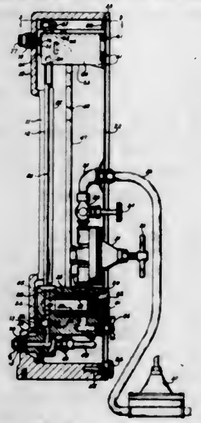
1. A car replacer having means for guiding a wheel flange into engagement with the head of a rail, said replacer comprising a hollow frog having a vertical wall adapted to be disposed along side a rail substantially parallel therewith, and provided with a vertical slot having an open upper end, and a holding device constructed to engage over the head of the rail and having a shank passing loosely through said slot, said shank having an enlarged end incapable of passing through said slot, the sides of said enlarged end adjacent the inside of said slot being arcuate, whereby said holding device may swing laterally in a horizontal plane, and may also move vertically in said slot.

2,593,957

FLUID LEAKAGE GAUGING DEVICE

Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio

Application February 3, 1947, Serial No. 726,059
15 Claims. (Cl. 73—37.5)



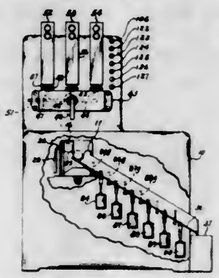
1. A gauging device comprising a housing having a readily removable vertical back plate providing a housing closure at the rear of said housing, a filter casing fastened to said plate near the lower end thereof, a readily releasable tube clamping means on said plate, a vertical flow tube supported between said filter casing and clamping means, means carried by said plate for supplying fluid under pressure to said filter casing, a connection means accessible from the exterior of the housing, and a connection from the upper end of said tube to said connection means, said flow tube having means operable therein and visible through the front of said housing to indicate the rate of flow of fluid through said tube.

2,593,958

APPARATUS FOR GAUGING AND FOR SELECTING ARTICLES ACCORDING TO SIZE

Willis Fay Aller, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio

Continuation of application Serial No. 660,902, April 10, 1946. This application September 10, 1949, Serial No. 114,935
9 Claims. (Cl. 209—82)



1. Gauging and selecting apparatus comprising a workholder having a gauging station and a discharge guide so arranged that as a workpiece is supplied to the gauging station it pushes a previously gauged workpiece to the discharge guide, a series of selector gates in the discharge guide determining the line of travel of the gauged workpiece, control means for each gate, a gauging fluid leakage nozzle in the work holder at the gauging station such that flow of fluid therethrough is determined by the size of the workpiece, a plurality of air pressure responsive curved tubes expansible and contractible in accordance with the air pressure supplied thereto, a pair of switches controlled by each of said tubes, one fluid conduit connected to all of said tubes and to said nozzle to subject said tubes to the same fluid pressure as determined by said nozzle, said conduit adapted to be supplied with fluid under controlled pressure, and means controlled by said switches for controlling the operation of said gates to select the workpieces according to size.

2,593,959

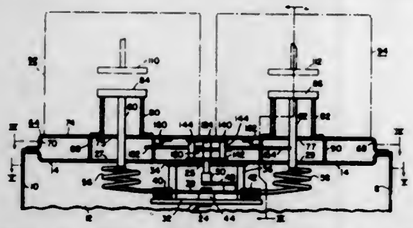
DIELECTRIC HEATING UNIT

William H. Anderson, Elkridge, and Dean S. Shingler and Bruce Boyd, Baltimore, Md., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 1, 1949, Serial No. 78,902
11 Claims. (Cl. 219—47)

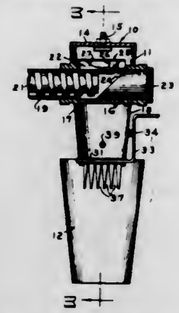
1. A dielectric heating unit comprising a metallic casing adapted to contain high-frequency generating equipment, said casing having a pair of spaced generally horizontal upper walls, a plurality of metallic cages carried by said casing

over said upper walls, each cage comprising separable cage-members, a heating-electrode inside each cage, a high-frequency supply comprising an insulated conductor inside said casing, be-



low said upper walls, and circuits and switching means carried by and between said upper walls comprising horizontally operable switch means for selectively connecting said insulated conductor to one of said heating-electrodes.

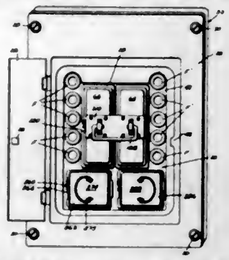
2,593,960
APPARATUS FOR MARKING ROAD SURFACES
Frank E. Ballew, Woodland, Mich.
Application May 26, 1947, Serial No. 750,580
11 Claims. (Cl. 275—2)



1. Road marking equipment for applying solid particles of material along a predetermined line on the road, comprising a distributor in the form of a downwardly tapering housing adapted for movement along a road surface and having a delivery opening at the bottom shaped to discharge solid particles of a marking substance on the road surface along a line determined by the path of travel of the housing over the road, rotatable conveyor means for supplying solid particles of a marking substance to the upper portion of said housing and dropping the same through said opening, a pair of deflectors pivotally supported in laterally spaced relation to each other and extending across the path of travel of the marking substance passing through the delivery end of the housing, and means for independently adjusting the deflectors.

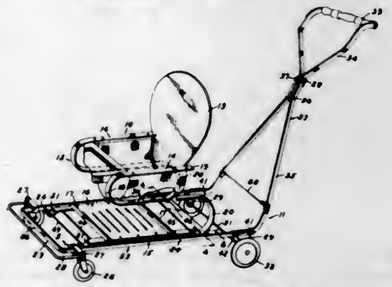
2,593,961
CURRENT DISTRIBUTION AND CONTROL UNIT
Richard P. Ballou, Hartford, Conn., assignor to Federal Electric Products Company, Newark, N. J., a corporation
Application June 24, 1950, Serial No. 170,066
17 Claims. (Cl. 175—298)

1. A current distribution and control unit for a plurality of load circuits, comprising switching means provided with first and second switch contacts for connection respectively to a line terminal and to a load terminal of one of said load circuits, a third switch contact for connection to said first contact and to a load terminal of another of said load circuits, and a movable switching member having first and second contacts engageable with said first mentioned first and second switch contacts, respec-



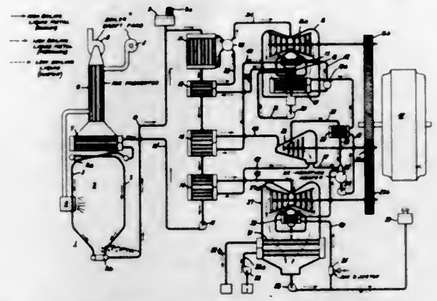
tively, in the closed condition of said switching means, current-responsive means connecting said contacts of said movable switching member, an additional contact on, and connected directly to said first contact of, said movable switching member and engaging said third switch contact in said closed condition of said switching means.

2,593,962
CHILD'S STROLLER
Paul L. Barker, Detroit, Mich.
Application May 21, 1949, Serial No. 94,552
6 Claims. (Cl. 155—41)



3. A child's stroller comprising in combination a seat member, a pair of resilient, upright S-shaped frames supporting said seat at each side thereof, said S-shaped frames each having a bottom horizontal run, said bottom runs having at the opposite ends thereof downwardly offset, upwardly opening U portions which serve as ground engaging members when the assembly is used as a chair, a dolly frame, supporting wheels on said dolly frame, a pair of spaced members extending transversely across the dolly frame adjacent one end thereof, said transverse members being spaced apart to receive therebetween the U portions at the free ends of said bottom runs when said frames are tilted forwardly to incline said bottom runs to the plane of said dolly frame, said U portions at the free ends of said bottom runs engaging the underside of one of said transverse members and the portions of said bottom runs adjacent said U portion engaging the topside of said other transverse member when the bottom runs are pivoted from said inclined position into the plane of said dolly frame, and means adjacent the other end of the dolly frame for supporting and releasably engaging the opposite ends of said bottom runs.

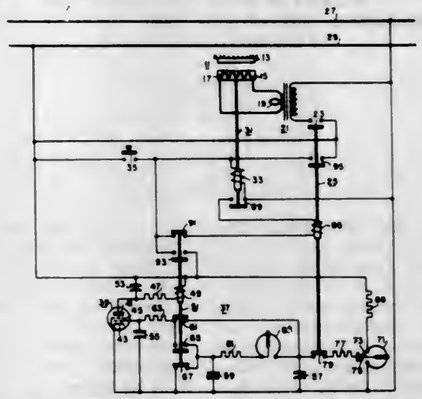
2,593,963
BINARY CYCLE POWER PLANT HAVING A HIGH MELTING POINT TERTIARY FLUID FOR INDIRECT HEATING
Leonard R. Biggs, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 11, 1950, Serial No. 137,993
5 Claims. (Cl. 60—38)



5. A three fluid thermal powerplant comprising conduits defining a primary liquid circuit charged with a material which is liquid at all normal operating temperatures and has a boiling point substantially above the maximum temperature in the cycle, conduits defining a secondary fluid circuit charged with a high-boiling liquid, and conduits defining a tertiary circuit charged with a lower-boiling liquid, the primary circuit including a primary heater connected by one supply conduit and one return conduit to first heat exchange means adapted to vaporize the liquid in the secondary circuit, means in the primary circuit for preventing the static pressure therein from rising substantially above ambient atmospheric pressure whereby the high temperature primary circuit is maintained at a comparatively low pressure, the secondary circuit including an elastic fluid turbine having associated with the exhaust therefrom a condenser-boiler adapted to condense the secondary fluid in the secondary circuit and vaporize liquid in the tertiary circuit, the secondary circuit also including pump means for passing liquid from the secondary fluid condenser through the first heat exchanger in counter-flow relation with the primary liquid, conduits for passing secondary fluid vapor from the first heat exchanger to the inlet of the secondary fluid turbine, the tertiary circuit being charged with a comparatively low-boiling liquid and including at least one elastic fluid turbine having a condenser for receiving the exhaust therefrom, circulating pump means in the tertiary circuit with conduit means for passing condensate from the tertiary fluid condenser to the secondary fluid condenser-boiler, and conduit means for passing tertiary fluid generated in the condenser-boiler to the inlet of the tertiary fluid turbine.

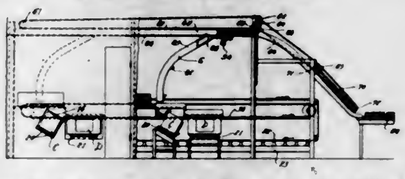
2,593,964
ELECTRONIC TIMER
Taylor A. Birckhead, Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 20, 1950, Serial No. 163,257
4 Claims. (Cl. 315—275)

1. In combination, an electric discharge device having an anode, a cathode, and a control electrode, a first capacitor connected in series with first normally closed contacts and said control electrode, a second capacitor connected in series with normally open second contacts and said control electrode, third normally closed contacts connected in shunt with said second capacitor, charging means connected in series with fourth normally closed contacts across said first capacitor and in series with said fourth contacts and a resistance across said second capacitor, means to effect opening said fourth contacts whereby said first capacitance discharges through said resistance and said discharge device is rendered con-



ductive, means responsive to conduction of said discharge device to actuate said first, second, and third contacts and to effect closing of said fourth contacts, whereby said first capacitor is disconnected from said control element, and said second capacitor is connected to said control electrode and its shunt removed and said charging means is effective to charge said second capacitor through said resistance to render said discharge device non-conductive.

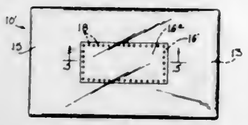
2,593,965
CARTON FEEDING APPARATUS
Preston J. Blackwell, Emerson, N. J., assignor to Robert Gair Company, Inc., New York, N. Y., a corporation of New York
Original application May 15, 1946, Serial No. 669,748. Divided and this application October 5, 1948, Serial No. 52,835
10 Claims. (Cl. 198—19)



3. The combination with a work station including a support for a carton, of an overhead chute having connected opposite walls and an inlet and a discharge end through which a supply of nested cartons having opposite portions thereof in constant frictional engagement with opposite interior wall portions of the chute are fed to a point above said support, a slider board connected to said overhead chute along which nested cartons are adapted to be frictionally advanced, said chute having an uppermost inclined section which joins said slider board at an acute angle to allow clusters of nested cartons to be slid endwise from said slider board into the overhead chute without becoming wedged therebetween, means projecting interiorly of the discharge end of the chute and operable for controlling the removal of the cartons one at a time from the

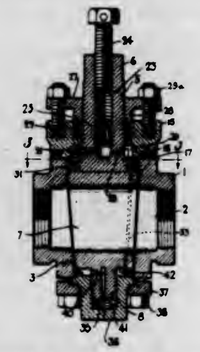
chute toward the support, and means for mechanically feeding a quantity of cartons into the chute for gravity frictional descent therein to the discharge end thereof.

2,593,966
CONTAINER WITH INDIVIDUAL INSCRIPTION
Samuel H. Born, Bethlehem, Pa.
Application February 23, 1949, Serial No. 77,779
2 Claims. (Cl. 229—8)



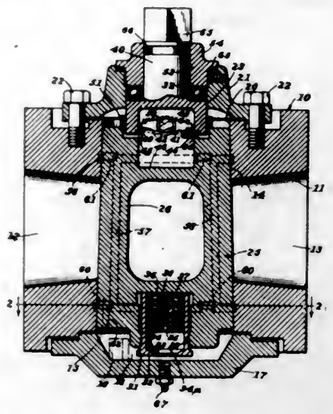
1. An inscription panel for a package having a top wall, comprising a padding covering the outer face of the top wall, a piece of impressible metal foil positioned on said padding so arranged and constructed that said padding provides a soft underlining for said piece of metal foil permitting a message to be impressed therein, lines of perforations dividing off a center area of said piece of metal foil which is to be impressed with a message of greeting, and an adhesive securing the edge portions of said piece of metal foil outward of said lines of perforations to the adjacent face of said padding, whereby the message impressed center area can be separated from the remainder of the piece of impressible metal foil when the package is to be discarded.

2,593,967
LUBRICATED PLUG VALVE
Edward C. Bostock, Bryn Athen, Pa., assignor to The Pitcairn Company, Wilmington, Del., a corporation of Delaware
Application October 1, 1945, Serial No. 619,578
6 Claims. (Cl. 251—93)



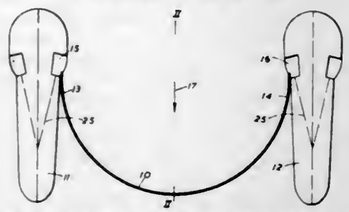
1. In a lubricated valve, a valve body having a main-line passage therethrough and a valve seat intercepting the main-line passage, said valve seat being tapered throughout its major portion but provided with a cylindrical extension at one end thereof, a rotatable plug located in the seat and having its major portion tapered to fit the major portion of the valve seat and having a cylindrical extension to fit the cylindrical extension on the valve seat, a lubricant reservoir above the extension, lubricant passages in the contacting surfaces of the plug and valve body and in connection with the reservoir, and means to raise and lower the plug during rotation.

2,593,968
LUBRICATED VALVE
Walter J. Bowan and Frederick Tratzik, Decatur, Ill., assignors to Mueller Co., Decatur, Ill., a corporation of Illinois
Application December 26, 1945, Serial No. 637,222
6 Claims. (Cl. 251—93)



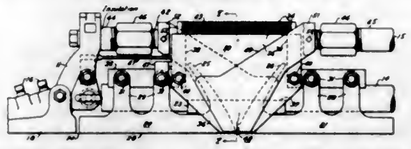
3. In a valve, a casing member provided with a flow passageway and a seat bore, a lubricant chamber in the casing member into which an end of the valve member extends, means to move the valve element into the chamber to force lubricant from the latter to the valve seating surfaces, a second lubricant chamber in said end of the valve member and communicating with said first chamber, and means in the second chamber to maintain lubricant under pressure.

2,593,969
SLUICE GATE
William John Bowtell, Bromley, England
Application January 6, 1948, Serial No. 695
In Great Britain January 14, 1947
12 Claims. (Cl. 61—28)



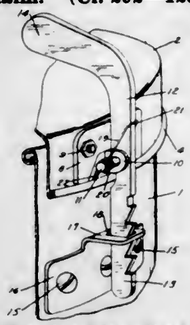
1. A sluice gate comprising two piers bounding a channel, a guide in each of said piers, a water-retaining curtain in the form of a relatively thin plate which is curved about a vertical axis in the form of part of a circular cylinder with its convex surface facing downstream extending across the channel between the guides, means for moving said curtain up and down to open and close said channel comprising mounting members attached to each side of said curtain, main supporting means in said guides located beyond the lateral limits of said curtain and downstream of said mounting members to support said mounting members against movement in a general downstream direction, and ancillary supporting means in said guides disposed on the streamward side of said mounting members to support said mounting members against movement in a direction transverse to the general downstream direction.

2,593,970
TROLLEY CONDUCTOR INSULATOR
Leland F. Brahmer and Raymond P. Hanna, Wilkinsburg, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 13, 1946, Serial No. 716,024
4 Claims. (Cl. 191—39)



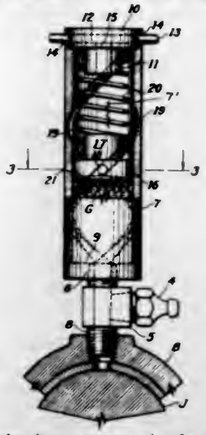
1. In a trolley conductor insulator, a pair of end members, a tension member connecting said end members in spaced relation, metallic runner members having upwardly divergent arc horns on adjacent ends mounted on the tension member in spaced and insulated relation, a compression member connecting the end members and having a section of magnetic material intermediate the ends insulated from the end members, and means including a coil wound about the magnetic section and pole pieces of magnetic material dependent from the ends of the section of magnetic material arranged on opposite sides of the runner members to produce a magnetic field transversely of the runner members intermediate the arc horns.

2,593,971
LATCH MECHANISM
Richard J. Brandt, Minneapolis, Minn.
Application October 9, 1946, Serial No. 702,235
1 Claim. (Cl. 292—128)



In a device of the class described, latch mechanism for telescoping covers of garbage cans and the like, including a bracket adapted to be secured to the side edge of said cover, said bracket including a pair of laterally-spaced outwardly-projecting ears, a pivoted pin extending through said ears and terminating outwardly from each thereof, a latch bar pivotally secured intermediate its ends to said pivot pin between said ears, the outer edge of said latch bar adjacent its lower end being provided with a plurality of teeth and the upper end thereof being bent to overlie the upper surface of said cover, a latch bracket adapted to be secured to the side wall of the can immediately below the cover, an upper portion of said latch bracket being outturned and being provided with an aperture adapted to receive the lower toothed end of the latch bar when the cover is in a closed position, and a torsion spring biasing the toothed lower end of said latch bar toward engagement with the apertured latch plate, said torsion spring including a generally U-shaped member the opposite ends of which are coiled around the opposite ends of said pivot pin.

2,593,972
LUBRICATOR
Arthur Bray, Sacramento, Calif.
Application November 18, 1948, Serial No. 60,654
5 Claims. (Cl. 184—45)



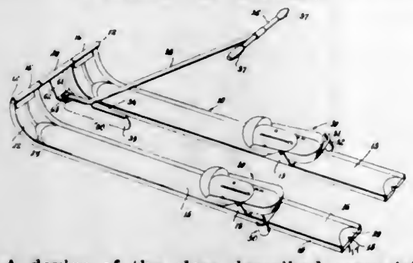
1. In a lubricator, a receptacle providing a cylindrical chamber having a common intake and discharge opening for a lubricant at one end, a head member removably fixed at the other end of the chamber and providing a spring seat directed toward the first end of the chamber, a free plunger reciprocable in said chamber in direct threaded engagement with its side, and a helical compression spring constantly operative between said spring seat and the plunger, for moving the plunger toward the opening, the threaded engagement of the plunger and the chamber side being operative for rotating the plunger by reason of its longitudinal movement in the chamber.

2,593,973
REMOTE CONTROL DEVICE
George Briggs, London, England, assignor to B. V. C. Electronics Developments Limited, London, England, a British company
Application June 14, 1948, Serial No. 32,762
In Great Britain June 20, 1947
1 Claim. (Cl. 177—386)



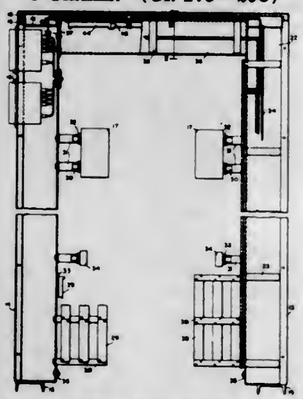
A master element for a remote position indicator comprising a liquid filled bowl, three curved stator electrodes symmetrically arranged and each subtending an angle of approximately 90° at the centre of the bowl, a rotor rotatably arranged within the stator electrodes coincident with the axis of the stator electrodes and having two diametrically opposite electrodes co-operating with the stator, said rotor electrodes subtending an angle to the center of the rotor which is the same as the angle so subtended by the stator electrodes, and means for applying equal and opposite potentials to the rotor electrodes so that the magnitude and relative phases of the potentials established at the stator electrodes is directly related to the position of the rotor relative to the stator electrodes.

2,593,974
SKI SLED
Robert Paul Brown, White Plains, N. Y.
Application October 7, 1948, Serial No. 53,190
2 Claims. (Cl. 280—21)



1. A device of the class described comprising, in combination, a pair of skis; a cross member interconnecting the front ends of said skis and maintaining such front ends in substantially fixed laterally spaced relation; a bracket mounted on said member for vertical oscillation relative thereto; a braking and steering means secured to said bracket for lateral oscillation relative thereto; an elongated handle secured to said means to swing the same downwardly into a snow-engaging position and laterally to effect steering of the device; a pair of shoe plates each mounted on one of said skis for vertical oscillation relative thereto; and a snow-engaging brake on the rear end of each plate operative into braking position by rearward tilting of the plate; whereby an operator can depress said handle and tilt said plates rearwardly to decelerate said device, said plate supported brakes being selectively operable to exert a drag on either ski to assist in steering the device.

2,593,975
SWITCHBOARD CONSTRUCTION
Myron J. Brown and Felix F. Lukaszewicz, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 7, 1950, Serial No. 154,664
8 Claims. (Cl. 175—298)

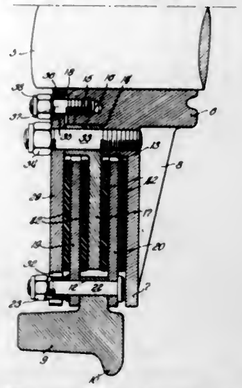


1. In a switchboard structure, in combination, a vertical panel having rearwardly extending flanges at its vertical edges, vertical wiring troughs secured to said flanges, in-turned flanges on said troughs, said in-turned flanges having a plurality of holes therein, oppositely disposed mounting brackets attached to said in-turned flanges at said holes, each mounting bracket having a notch in one end, pairs of spaced horizontally disposed bars secured to said mounting brackets, the ends of said bars extending beyond the mounting brackets, apparatus units supported by said bars, and bolts for attaching said units to said bars, the heads of said bolts being slidable along said bars through said notches in the mounting brackets.

2,593,976
COMPOSITION COMPRISING ETHYL CELLULOSE AND A FATTY OIL ACID MODIFIED ALKYD RESIN
Harry Burrell, Milburn, and Percy M. Clark, Roselle, N. J., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
No Drawing. Application April 22, 1949, Serial No. 89,144
10 Claims. (Cl. 260—16)

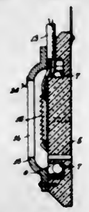
1. A resin composition comprising 10 to 90 parts ethyl cellulose having an ethoxyl content of 43.5 to 49.5% admixed with 90 to 10 parts of a 30 to 55% fatty oil acid modified alkyd resin, said alkyd resin consisting of the heat esterification product of fatty oil acid, alkyd resin-forming polyhydric alcohol and polycarboxylic acid resulting from the condensation of 1 to 2 moles of dicyclopentadiene with 1 mole of alpha, beta-ethylenically unsaturated dicarboxylic acid.

2,593,977
RESILIENT WHEEL
Robert J. Burrows and Alfred O. Williams, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application April 22, 1946, Serial No. 664,041
6 Claims. (Cl. 295—11)



3. In a resilient wheel, a hub member having an inboard radially extending flange, a second radially extending flange member seated on said hub member, an outboard flange plate having an opening formed centrally thereof, said outboard flange plate being disposed relative to said hub so that the inner periphery of the opening thereof is spaced radially outwardly of the outer periphery of the adjacent portions of said hub to define an annular recess between the outer periphery of said hub and the inner periphery of the opening in said flange plate, one of said peripheries having a seating surface formed as a portion of the surface of a cone, means for securing said inboard flange, second flange and outboard flange together, a wedge ring disposed in said annular recess, said wedge ring having an inner periphery defining the inner extent thereof conforming to the outer periphery of the hub and an outer periphery defining the outer extent thereof conforming to the inner periphery of said opening in said flange plate, means extending through said wedge ring for biasing said wedge ring substantially axially inwardly of said hub member whereby said wedge ring is adapted to be flexed so that it wedges itself between said hub member and said flange plate, a rim member, a pair of axially spaced radially inwardly extending flange plates secured to said rim member and extending into the spaces between said inboard flange and flange member and between said flange member and said outboard flange plate, and annular rubber discs disposed between the flanges carried by said hub and rim members.

2,593,978
IGNITION DEVICE
Franz Cajumi, Innsbruck, Austria, assignor of one-half to Louis Coleman, New York, N. Y.
Application March 10, 1950, Serial No. 148,785
In Austria January 12, 1946
1 Claim. (Cl. 175—91)



An electric ignition device for igniting the wick of an elongated torch having the wick at one end thereof, said ignition device including a substantially circular wall plate of insulating material having a circular groove in one side thereof, a resistance coil disposed in the circular groove and conforming to the circular form thereof and having the ends thereof spaced apart in the groove, a pair of elongated contact plates secured upon said one side of said wall plate upon the central area thereof and spaced apart in substantial parallelism with the inner adjacent edges bent upright and serrated to form serrated flanges, an electric conductor connected to one end of the resistance coil in the groove, another electric conductor connected to one of said contact plates, a connection between the other contact plate and the other end of said resistance coil, and a cover plate of circular form mounted upon the wall plate having an elongated narrow slot diametrically disposed and registering with the serrated flanges on said contact plates, said slot being sufficiently narrow to prevent bodily contact of the torch with the serrated flanges but allowing the point of the torch to be inserted and drawn along the serrations of the flanges to give rise to sparks and thereby ignite said torch, said cover plate protecting the resistance coil throughout its length in said groove and having hook means at one end of the slot for suspending said torch.

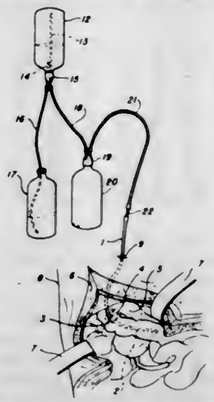
2,593,979
TETHERED TOY AIRPLANE
Jack A. Calhoun, Long Beach, Calif., assignor to Skycraft Mfg. Corp., Long Beach, Calif., a corporation of California
Application January 11, 1952, Serial No. 266,061
13 Claims. (Cl. 46—77)

11. A toy airplane comprising an elongated substantially rigid wing supporting strut member, a flexible elongated wing rotatably mounted on the opposite end portions of the strut member, said opposite end portions being joined by an intermediate portion, and cooperable bearing means respectively carried by opposite end portions of the strut member and portions of the wings mounted on said end portions, said bearing means being of such construction as to rotatably



support each of the wings relative to the strut end portions and maintain each wing from displacement longitudinally of said strut member except when said wings are flexed intermediately of their ends whereupon said cooperable bearing means on the strut member and wings are disengaged from each other and said wings can be detached from said struts.

2,593,980
SURGICAL DRAINAGE TUBE
David J. Calicchio, Boston, Mass.
Application July 19, 1950, Serial No. 174,695
2 Claims. (Cl. 128—350)

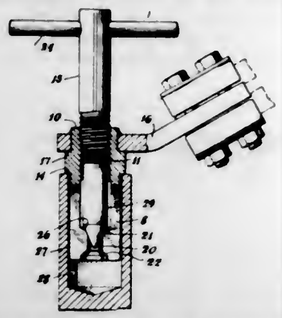


1. A drainage tube of material that is absorbable by the human system provided with a plurality of perforations at one end and that is unperforated at its other end.

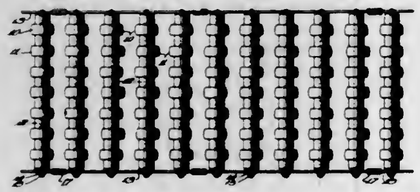
2,593,981
ELECTRICAL CONNECTOR
Emil R. Capita, North Bergen, N. J.
Application July 22, 1949, Serial No. 106,229
4 Claims. (Cl. 173—269)

1. An electrical connecting device of the class described for connection with a socketed member comprising, a generally tubular member insertable into said socket having an interiorly threaded upper portion and depending prongs, each prong having an inwardly extending spreader projection, and an elongate expander rod extending into said tubular member having an inwardly sloping lower end for forcing said spreader projections and prongs radially outwardly and having an exteriorly threaded portion in engagement with the threaded upper portion of said tubular member, said rod having a length greater than the distance from said

spreader projections to the upper end of the tubular member so that an upper portion of the rod projects above the tubular member at all times, and means secured to and projecting laterally from said expander rod above said tubular member for rotating the rod and adjusting its lower sloping end toward and away from said spreader projections.



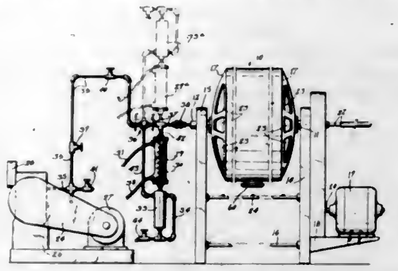
2,593,982
ROLLING MASSAGER FOR INCREASING BLOOD CIRCULATION
Claude Denis Cash, Chicago, Ill.
Application May 21, 1949, Serial No. 94,543
8 Claims. (Cl. 128—57)



6. A device for stimulation of blood circulation in living bodies comprising a pair of longitudinal side plates, a plurality of shafts mounted between said side plates in side by side horizontal alignment, and a plurality of surface contacting rollers mounted for free rotation immediately adjacent each other on each of said shafts, said shafts being mounted on levels conforming to the general contour of the body surface to be contacted by said rollers, alternate rollers between the end rollers on each of said shafts being mounted eccentrically, the other rollers each being concentrically mounted and having length dimensions substantially three times the length of said eccentrically mounted rollers, said other rollers having end portions of reduced diameter and a central portion of length and diameter equal to the corresponding dimensions in said eccentrically mounted rollers, whereby movement of contacted body surfaces across said device results in the contacted portions on said eccentrically mounted rollers continually changing in level with respect to contacted portions on said concentrically mounted rollers.

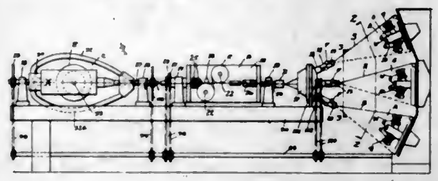
2,593,983
SMOKELESS COFFEE ROASTING APPARATUS
Emil Chalupa, New York, N. Y.
Application November 13, 1950, Serial No. 195,221
4 Claims. (Cl. 99—236)

1. A smokeless coffee roasting unit, comprising a roasting drum rotatively mounted having a coffee beans admission and discharge opening, a cover for closing said opening, said mounting means including a hollow shaft the interior of which opens into the interior of said drum, an air-tight closed system including said shaft and also including said drum when closed at said opening by said cover, means for withdrawing air from said system to set up a relative vacuum therein, means in said system for operating at a point external to the drum interior for collecting and condensing the volatiles of and vapor in a batch of coffee beans being roasted and for then draining the condensate back into the drum following completion of roasting to be reabsorbed by the roasted coffee beans, said collecting and draining means comprising a substantially horizontally extending rotatively supported conduit



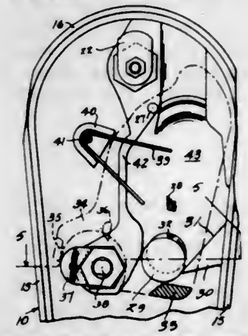
portion in said system, a condenser normally dependent from and in continuously open communication with said rotatively supported conduit portion, a receiver normally dependent from and in continuously open communication with said condenser, and a conduit portion extending directly between the receiver and said rotatively supported conduit portion at a point between said condenser and said means for withdrawing air from the system, so constructed and arranged that said rotatively supported conduit portion, said condenser and said receiver may as a unitary structure be rotated through 180° relative to the remainder of said system to dispose the receiver above the condenser and the condenser above said conduit portion for drain back of the condensate into said drum.

2,593,984
TENSION CONTROL AND STOP MOTION FOR STRANDED WIRE CABLE MAKING MACHINES
Frank A. Clary, Jr., and Grant N. Willis, Bristol, Conn., assignors to Johnson Steel & Wire Company, Inc., Worcester, Mass., a corporation of Massachusetts
Original application February 12, 1948, Serial No. 7,756, now Patent No. 2,546,977, dated April 3, 1951. Divided and this application May 19, 1949, Serial No. 94,062
5 Claims. (Cl. 57—58)



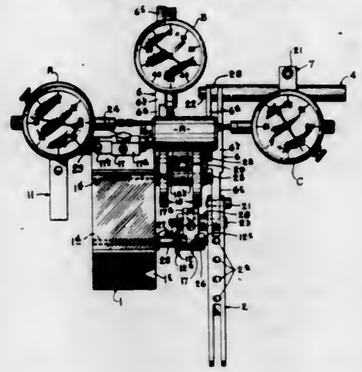
1. Apparatus for the manufacture of stranded wire cable comprising in combination, means for supporting a plurality of spools of wire, means for imparting a predetermined strand twist to selected groups of wires, as drawn from said spools, a cable-storing drum, cable-forming means for imparting a predetermined cable lay twist to said strands and for guiding such laid cable toward said cable-storing drum, positively driven capstan rolls interposed between said wire supply spools and said cable forming means for drawing off wire from said spools and for feeding the same through said cable forming means to said cable-storing drum, means for driving said drum to wind cable thereon, without appreciable tension, means responsive to the pull on each wire, as it unwinds from its spool, for automatically controlling the application of a retarding force to each spool, whereby the complete cable formed from said wires is made of uniform wire lengths, and means responsive to the functioning of said wire pull operated means for automatically stopping the formation of a wire strand should the tension resulting from the pull in any wire exceed a predetermined value.

2,593,985
PARKING COIN DEPOSITORY
Henry Purl Compton, Abilene, Tex., assignor to The Simplex Company, Abilene, Tex.
Application April 20, 1950, Serial No. 157,156
1 Claim. (Cl. 232—1)



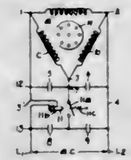
In a parking meter having an upright housing formed with a hollow base, and a closure hinged to said housing and formed with a coin slot with a coin guiding and releasing plate pivotally carried by the inner side of said closure and extending downwardly therefrom; means for stacking a plurality of coins and releasing said coins individually, comprising a coin supporting lug carried by said plate below said slot adapted in the normal position of said plate to cooperate with an adjacent portion of said closure in holding an initial coin against dropping into said base, an inner downwardly extending rib carried by said closure forming a by-pass chute, a downwardly and inwardly inclined guide fixed to said closure below said lug and adapted upon engagement of a released coin to effect inward movement thereof, said closure having a coin exposing window adjacent said guide, a second lug carried by the lower portion of said plate adapted upon inward rocking of said plate to support a coin released from said first lug in confronting position to said window, outward rocking of said plate to normal position effecting release of the coin engaged with said second lug whereby the coin will drop into said base, said first lug being so positioned that when a coin is engaged therewith and a second coin is inserted in said slot, said second coin will strike said first coin and roll inwardly and downwardly to thereby bypass both of said lugs and drop into said base, and key actuated means for rocking said plate.

2,593,986
COMBINATION GAUGE AND FIXTURE SET
Clarence A. Comstock, New Britain, Conn.
Application April 29, 1947, Serial No. 744,711
3 Claims. (Cl. 33—174)



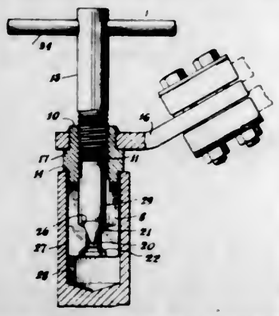
1. In an inspection gauge apparatus, a base block, having an end to end axis of symmetry, means secured in one end of said base for rotatably supporting a cylindrical bearing roll in such a manner that the longitudinal axis thereof is in parallel spaced relationship to the axis of symmetry of said base block, abutment means secured to one side of said base block and so disposed as to engage the lower edge of the inner end of said bearing roll, an end squareness indicating dial gauge, a link, a bushing, and a screw for detachably securing said dial gauge to the other end of said block so that the pressure sensitive end thereof is in engagement with the upper edge of the inner end of said bearing roll, a fulcrum pin rigidly secured in said first-mentioned end of said base block in such a manner that the longitudinal axis thereof is in parallel spaced relationship to the axis of symmetry of said base-block, a second link pivoted on said fulcrum pin, a third link rigidly connected at an angular relation to said second link to form a bell crank lever, and a dial indicator gauge adjustably and rigidly secured to said third link so that its pressure sensitive end is in engagement with the outer end of said bearing roll, whereby the end squareness and length thereof may simultaneously be measured upon manually turning said bearing roll in its supporting means while holding it against said abutment means.

2,593,987
THREE-PHASE MOTOR CONTROL APPARATUS
Frederick M. Courtney, Scotia, and Harold H. P. Lemmerman, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 21, 1951, Serial No. 232,804
4 Claims. (Cl. 318—221)

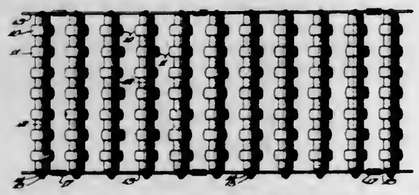


1. In an apparatus for starting and running from a single phase source of alternating electric

spreader projections to the upper end of the tubular member so that an upper portion of the rod projects above the tubular member at all times, and means secured to and projecting laterally from said expander rod above said tubular member for rotating the rod and adjusting its lower sloping end toward and away from said spreader projections.



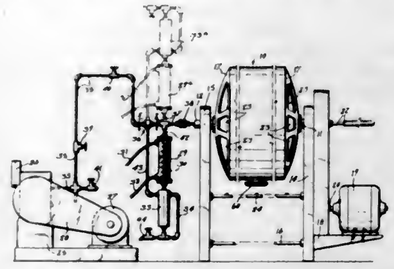
2,593,982
ROLLING MASSAGER FOR INCREASING BLOOD CIRCULATION
Claude Denis Cash, Chicago, Ill.
Application May 21, 1949, Serial No. 94,543
8 Claims. (Cl. 128—57)



6. A device for stimulation of blood circulation in living bodies comprising a pair of longitudinal side plates, a plurality of shafts mounted between said side plates in side by side horizontal alignment, and a plurality of surface contacting rollers mounted for free rotation immediately adjacent each other on each of said shafts, said shafts being mounted on levels conforming to the general contour of the body surface to be contacted by said rollers, alternate rollers between the end rollers on each of said shafts being mounted eccentrically, the other rollers each being concentrically mounted and having length dimensions substantially three times the length of said eccentrically mounted rollers, said other rollers having end portions of reduced diameter and a central portion of length and diameter equal to the corresponding dimensions in said eccentrically mounted rollers, whereby movement of contacted body surfaces across said device results in the contacted portions on said eccentrically mounted rollers continually changing in level with respect to contacted portions on said concentrically mounted rollers.

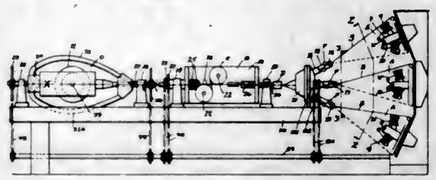
2,593,983
SMOKELESS COFFEE ROASTING APPARATUS
Emil Chalupa, New York, N. Y.
Application November 13, 1950, Serial No. 195,221
4 Claims. (Cl. 99—236)

1. A smokeless coffee roasting unit, comprising a roasting drum rotatively mounted having a coffee beans admission and discharge opening, a cover for closing said opening, said mounting means including a hollow shaft the interior of which opens into the interior of said drum, an air-tight closed system including said shaft and also including said drum when closed at said opening by said cover, means for withdrawing air from said system to set up a relative vacuum therein, means in said system for operating at a point external to the drum interior for collecting and condensing the volatiles of and vapor in a batch of coffee beans being roasted and for then draining the condensate back into the drum following completion of roasting to be reabsorbed by the roasted coffee beans, said collecting and draining means comprising a substantially horizontally extending rotatively supported conduit



portion in said system, a condenser normally dependent from and in continuously open communication with said rotatively supported conduit portion, a receiver normally dependent from and in continuously open communication with said condenser, and a conduit portion extending directly between the receiver and said rotatively supported conduit portion at a point between said condenser and said means for withdrawing air from the system, so constructed and arranged that said rotatively supported conduit portion, said condenser and said receiver may as a unitary structure be rotated through 180° relative to the remainder of said system to dispose the receiver above the condenser and the condenser above said conduit portion for drain back of the condensate into said drum.

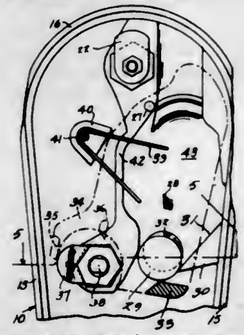
2,593,984
TENSION CONTROL AND STOP MOTION FOR STRANDED WIRE CABLE MAKING MACHINES
Frank A. Clary, Jr., and Grant N. Willis, Bristol, Conn., assignors to Johnson Steel & Wire Company, Inc., Worcester, Mass., a corporation of Massachusetts
Original application February 12, 1948, Serial No. 7,756, now Patent No. 2,546,977, dated April 3, 1951. Divided and this application May 19, 1949, Serial No. 94,062
5 Claims. (Cl. 57—58)



1. Apparatus for the manufacture of stranded wire cable comprising in combination, means for supporting a plurality of spools of wire, means for imparting a predetermined strand twist to

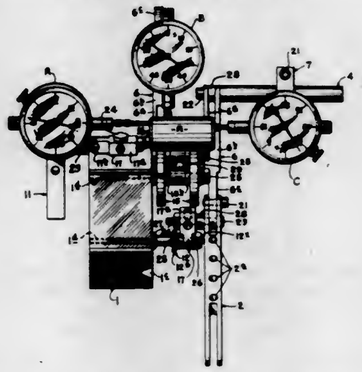
selected groups of wires, as drawn from said spools, a cable-storing drum, cable-forming means for imparting a predetermined cable lay twist to said strands and for guiding such laid cable toward said cable-storing drum, positively driven capstan rolls interposed between said wire supply spools and said cable forming means for drawing off wire from said spools and for feeding the same through said cable forming means to said cable-storing drum, means for driving said drum to wind cable thereon, without appreciable tension, means responsive to the pull on each wire, as it unwinds from its spool, for automatically controlling the application of a retarding force to each spool, whereby the complete cable formed from said wires is made of uniform wire lengths, and means responsive to the functioning of said wire pull operated means for automatically stopping the formation of a wire strand should the tension resulting from the pull in any wire exceed a predetermined value.

2,593,985
PARKING COIN DEPOSITORY
Henry Purl Compton, Abilene, Tex., assignor to The Simplex Company, Abilene, Tex.
Application April 20, 1950, Serial No. 157,156
1 Claim. (Cl. 232—1)



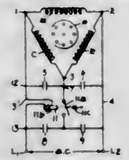
In a parking meter having an upright housing formed with a hollow base, and a closure hinged to said housing and formed with a coin slot with a coin guiding and releasing plate pivotally carried by the inner side of said closure and extending downwardly therefrom; means for stacking a plurality of coins and releasing said coins individually, comprising a coin supporting lug carried by said plate below said slot adapted in the normal position of said plate to cooperate with an adjacent portion of said closure in holding an initial coin against dropping into said base, an inner downwardly extending rib carried by said closure forming a by-pass chute, a downwardly and inwardly inclined guide fixed to said closure below said lug and adapted upon engagement of a released coin to effect inward movement thereof, said closure having a coin exposing window adjacent said guide, a second lug carried by the lower portion of said plate adapted upon inward rocking of said plate to support a coin released from said first lug in confronting position to said window, outward rocking of said plate to normal position effecting release of the coin engaged with said second lug whereby the coin will drop into said base, said first lug being so positioned that when a coin is engaged therewith and a second coin is inserted in said slot, said second coin will strike said first coin and roll inwardly and downwardly to thereby bypass both of said lugs and drop into said base, and key actuated means for rocking said plate.

2,593,986
COMBINATION GAUGE AND FIXTURE SET
Clarence A. Comstock, New Britain, Conn.
Application April 29, 1947, Serial No. 744,711
3 Claims. (Cl. 33—174)



1. In an inspection gauge apparatus, a base block, having an end to end axis of symmetry, means secured in one end of said base for rotatably supporting a cylindrical bearing roll in such a manner that the longitudinal axis thereof is in parallel spaced relationship to the axis of symmetry of said base block, abutment means secured to one side of said base block and so disposed as to engage the lower edge of the inner end of said bearing roll, an end squareness indicating dial gauge, a link, a bushing, and a screw for detachably securing said dial gauge to the other end of said block so that the pressure sensitive end thereof is in engagement with the upper edge of the inner end of said bearing roll, a fulcrum pin rigidly secured in said first-mentioned end of said base block in such a manner that the longitudinal axis thereof is in parallel spaced relationship to the axis of symmetry of said base-block, a second link pivoted on said fulcrum pin, a third link rigidly connected at an angular relation to said second link to form a bell crank lever, and a dial indicator gauge adjustably and rigidly secured to said third link so that its pressure sensitive end is in engagement with the outer end of said bearing roll, whereby the end squareness and length thereof may simultaneously be measured upon manually turning said bearing roll in its supporting means while holding it against said abutment means.

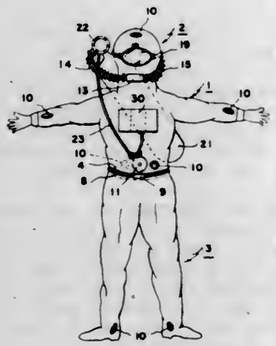
2,593,987
THREE-PHASE MOTOR CONTROL APPARATUS
Frederick M. Courtney, Scotia, and Harold H. P. Lemmerman, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 21, 1951, Serial No. 232,804
4 Claims. (Cl. 318—221)



1. In an apparatus for starting and running from a single phase source of alternating electric

current supply a three phase alternating current motor having three motor terminals, a pair of electric conductors for connecting two of said motor terminals to said single phase supply source, a first pair of capacitors connected in series circuit relation between said conductors and having a first common terminal, means for connecting said first common terminal to said third motor terminal, a second pair of capacitors connected in series circuit relation between said conductors and having a second common terminal, and switching means responsive to current in one of said conductors for connecting said first and second common terminals together.

2,593,988
DIVING APPARATUS
Jacques Yves Cousteau, Paris, France
Application March 26, 1947, Serial No. 737,325
In France April 2, 1946
4 Claims. (Cl. 128—144)



1. In a diving appliance, in combination, a non-rigid water and gas tight suit, outlet valves provided in a plurality of distinct points of said suit and adapted to discharge in the surrounding water the gas collected inside the highest part of the suit as long as the pressure of said gas is greater than the water pressure on the outlet valve provided at said highest part, a diaphragm pressure regulator having the outer surface of its diaphragm subjected to the water pressure and adapted to allow a gas to flow inside said suit as long as the difference between said water pressure and the pressure of the gas collected in the highest part of the suit exceeds a value corresponding to a water column the height of which is equal to the vertical distance between said diaphragm and the outlet valve which is nearest to the water surface, and a breathing apparatus adapted to allow the diver to breathe in and out.

2,593,989
OUTRIGGER ROD
Julian T. Crandall, Ashaway, R. I., assignor to Ashaway Line & Twine Mfg. Co., a corporation of Rhode Island
Application August 1, 1946, Serial No. 687,585
2 Claims. (Cl. 43—18)

1. In combination, an outrigger rod, spaced supports on said rod comprising bases mounted along the length of the rod, a resilient bushing positioned between each base and the contiguous rod portion each base having spaced sections extending therefrom, said sections having elements to slidably receive guy wires, and guy wires secured to the upper and lower ends of



the rod and slidably seated in said section elements.

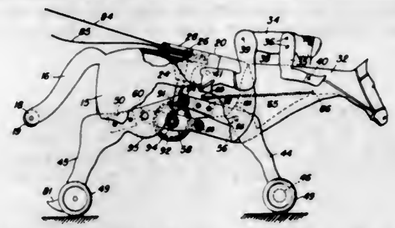
2,593,990
MINIATURE TOY STRING INSTRUMENT
Anton T. Cristell, Scotch Plains, N. J.
Application July 29, 1950, Serial No. 176,643
1 Claim. (Cl. 84—297)



A toy stringed instrument comprising a body, a neck extending from said body, a bar integrally formed on said body and extending transversely thereof, a second bar integrally formed on and extending transversely of said neck, said bars being formed with string-receiving recesses spaced from each other longitudinally of the bars, lugs formed on said body and said neck and spaced from the outer sides of the bars, the lugs on the body and the neck being arranged between pairs of adjacent recesses, and pairs of strings extending longitudinally of the body and the neck, each pair of strings consisting of a rubber band stretched longitudinally and having its end portions passing through pairs of recesses in the bars, the ends of the stretched rubber bands being looped around the respective lugs on the body and the neck, said lugs having round ends remote from the respective bars, and being undercut to retain the ends of the stretched rubber bands on the lugs.

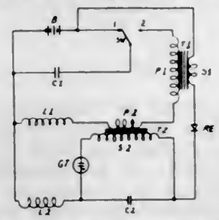
2,593,991
MECHANICAL TOY SIMULATING A GALLOPING HORSE
Lemuel S. Crosby, Towaco, N. J.
Application February 7, 1950, Serial No. 142,892
10 Claims. (Cl. 46—105)

5. In a wheeled device adapted to move in a forward direction in response to pull on a tension member in a rearward direction, in combination, a quadrilateral linkage, supporting means forming extensions of adjacent links in said linkage, wheels attached to said means adapted to frictionally engage a supporting surface, means for preventing rearward rotation of the wheels, a gear segment on one link of said linkage, a drive pinion rotatably carried by an adjacent link, a drum, means for rotatably supporting the drum, a tension member wound on said drum and having its ends extending rearwardly of the device whereby tension applied alternately to said ends rotates the drum in opposite directions, and drive means connecting



said drum with said drive pinion, the mechanical advantage in the drive system extending from said drum to said wheels being such that the pull on said tension member cannot overcome the friction between said wheels and said surface.

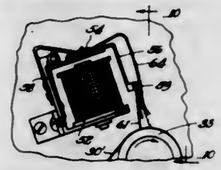
2,593,992
ELECTRONIC OSCILLATOR
Phil Cutler, Brooklyn, and Karl F. Ross, Bronx, N. Y.
Application April 11, 1950, Serial No. 155,206
12 Claims. (Cl. 250—36)



1. In an oscillator, in combination, a source of direct current, a discharge path for said source, an electronic switch in said discharge path, said electronic switch normally blocking said path and being responsive to a predetermined breakdown voltage for momentarily unblocking said path, said breakdown voltage being greater than the voltage of said source, an oscillatory circuit, circuit means including said source for exciting said oscillatory circuit, step-up transformer means for deriving from said oscillatory circuit a transient voltage at least equal to said breakdown voltage and applying said transient voltage to said electronic switch, thereby causing a current to flow in said discharge path, and coupling means between said discharge path and said oscillatory circuit, said coupling means transferring energy from said battery to said oscillatory circuit, thereby maintaining said oscillations at least for a plurality of cycles.

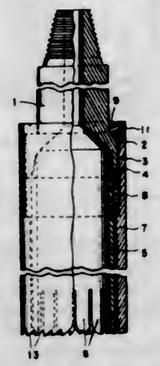
2,593,993
METAL FOIL PERFORATOR FOR CAPACITOR WINDING MACHINES
Harry Dahl and Stephen T. Moreland, Indianapolis, Ind., assignors, by mesne assignments, to John E. Fast & Co., Chicago, Ill., a corporation of Illinois
Application July 8, 1948, Serial No. 37,687
1 Claim. (Cl. 164—89)

In a capacitor winding machine, a mechanism for perforating a moving strip of metal foil at preselected intervals comprising a rotatably mounted guide roller carried by said machine and over which the foil is passed, said guide roller having a rubber-like covering providing a resilient backing surface for frictional contact with the foil, said roller being so disposed relative to said machine that the foil is in frictional contact with a substantial circumferential portion of the roller covering, perforating means carried by said machine in juxtaposition to said guide roller, said perforating means including a perforating tool having a perforating edge disposed transversely of and normally in substantially perpendicular relation to a plane tangential to said guide roller intermediate the ends of said circumferential portion, said perforating tool normally being out of contact with said guide roller, electromagnetic means carried at one end by said machine and with said one end in juxtaposition to said guide roller, an armature pivotally disposed adjacent the other end of said elec-



tromagnetic means and normally resiliently retained out of contact therewith, said armature being movable responsive to actuation of the electromagnetic means toward the latter means and the guide roller, and an L-shaped plate carried by said armature for movement therewith and pivotally supporting said perforating tool, actuation of said electromagnetic means effecting movement of said perforating tool toward said guide roller so that the perforating edge of the perforating tool penetrates the foil, the rubber-like covering providing a yieldable anvil backing the foil, and the perforating edge of the tool being movable with the foil and pivoted out of contact with the foil upon continued movement of the foil, deactuation of the electromagnetic means effecting retraction of the perforating tool.

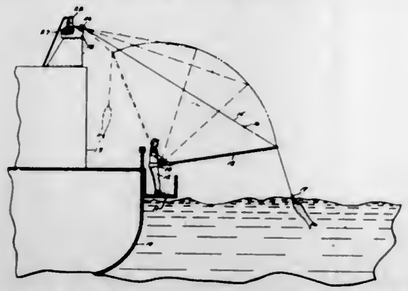
2,593,994
FISHING TOOL
Charles Amos Dean, Los Angeles, Calif.
Application March 7, 1949, Serial No. 79,930
4 Claims. (Cl. 294—86)



1. An earth-bore fishing tool comprising an outer shell, a drill stem extension threaded inside and out, an inner cylinder carrying basket fingers at its lower end being threaded to the inside of the stem extension, the outer shell extending down sufficiently to protect the basket fingers and being threaded to the outside of the

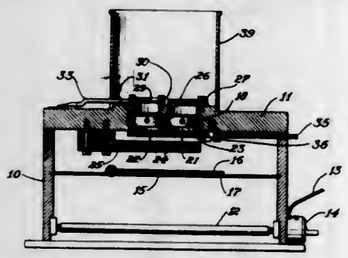
stem extension extensively enough to twist upon the stem and uncover the basket fingers, and locking means between the basket cylinder and the outer shell to prevent relative rotation between the two, the locking means being frangible by torque on the outer shell whereby the shell can be twisted upwardly to uncover the basket fingers.

2,593,995
SEMIAUTOMATIC FISHING DEVICE
Roy Deskin, Costa Mesa, Calif., and Christian W. Savitz, South Euclid, Ohio, assignors to Iron John, Inc., a corporation of California
Application May 4, 1951, Serial No. 224,627
10 Claims. (Cl. 43—4)



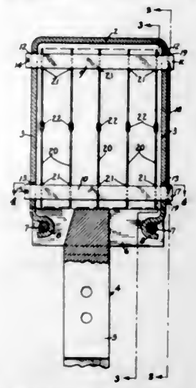
1. A fishing device comprising a reel having a fishing line leading therefrom, means for causing reeling in of said line, means responsive to a pull on said line for causing operation of said first means, and means for causing free unreeling of said line from said reel responsive to a predetermined extent of line reel-in.

2,593,996
OPTICAL DENSITY COMPARATOR
Dorothy M. Dolton, New York, and Daniel Smith, Riverdale, N. Y., assignors to Interchemical Corporation, New York, N. Y., a corporation of Ohio
Application December 23, 1948, Serial No. 67,022
2 Claims. (Cl. 88—14)



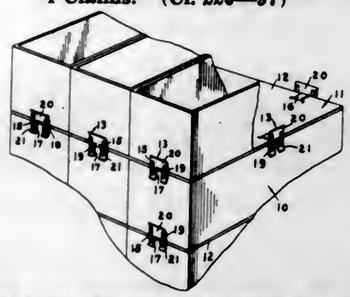
2. In an optical density comparator, the combination of a source of radiation which is discontinuous in the visible region of the spectrum and consists of spaced narrow wavelength bands, a colored filter in the path of said radiation which filter transmits a selected one of said narrow wavelength bands but absorbs all other components of visible radiation emitted by said source; the resulting radiation being substantially monochromatic, an optical system in the path of the radiation comprising an open aperture receptacle for a sample and an open aperture receptacle for a standard, the said receptacles being arranged in side by side relation whereby the sample and the standard may be visually compared; the said selected wavelength band being sufficiently narrow so as to avoid any substantial hue difference in said visual comparison of the sample and the standard, and means for measurably modulating the intensity of radiation emerging from one of the apertures.

2,593,997
HARNESS FRAME FOR LOOMS
Leonard M. Dorman, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application December 22, 1948, Serial No. 66,705
4 Claims. (Cl. 139—92)



1. A harness frame for looms of the class described, comprising an inverted substantially U-shaped member having leg portions which are inherently resilient, a hook-shaped engaging portion arranged in the lower end of each of said leg portions each of which is adapted to engage attaching portions carried by the jack of the loom, said leg portions adapted to be snapped into engagement with the attaching portions of the jack with the hook-shaped portions yieldably engaging the attaching portions whereby the frame is removably and resiliently held in position on the loom jack, a plurality of heddles arranged in said frame between said leg portions, and means carried by said frame for holding and supporting said heddles therein.

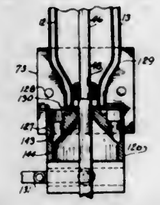
2,593,998
MEANS FOR RETAINING PACKAGES IN STACKED RELATIONSHIP
Arthur G. Dupuis, Grosse Pointe Farms, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application March 8, 1948, Serial No. 13,597
4 Claims. (Cl. 220—97)



2. Means for retaining packaging frames in a stacked position comprising a flat sheet adapted

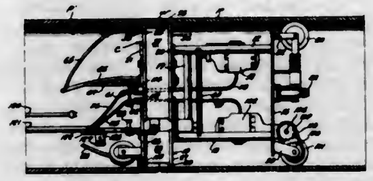
to be positioned between adjacent superposed frames and having slots therethrough spaced inwardly from the marginal edges thereof, clips having vertical plates provided with recesses in one side edge portion intermediate opposite ends thereof and having tongues respectively projecting laterally from the base portions of the recesses to occupy positions intermediate the top and bottom edges of the plates, said tongues engageable with one face of the sheet and respectively having open return bent portions at the free edges thereof respectively extending through the slots in said sheet, the length of the tongues being so determined with respect to the distance between the slots and adjacent marginal edges of the sheet to locate the plates beyond said marginal edges in positions to form abutments for frames at opposite sides of the sheet.

2,593,999
VACUUM FLASK SEALING MACHINE
Charles Eisler, South Orange, N. J.
Application October 1, 1949, Serial No. 119,155
2 Claims. (Cl. 49—1)



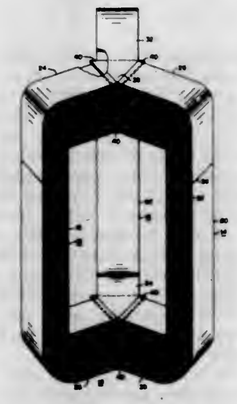
1. In a vacuum flask sealing machine, means for supporting an outer blank and an inner flask comprising the vacuum flask in inverted relation with the inner flask telescoped within the outer blank, said inner flask having a neck portion which constitutes the lowermost portion thereof when said flask is supported in said inverted position, a molding unit comprising mold members movable into and out of closing position about the vacuum flask, and a vertical cylindrical lip mold adapted to be moved into engagement with the neck portion of the flask to form the same into a lip portion, said lip forming mold being provided with a circular groove at the upper end thereof, and being provided with a recess in the lower portion and with apertures opening into said recess.

2,594,000
ELECTRIC LINE-UP CLAMP
Bernard V. Elliott, Dewey, Okla., assignor to H. C. Price Co., Bartlesville, Okla., a corporation of California
Application March 19, 1948, Serial No. 15,912
6 Claims. (Cl. 113—103)



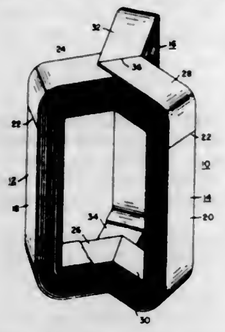
1. A portable line-up clamp for aligning and clamping adjacent pipe sections, comprising a frame member, a split clamping ring mounted thereon and expandable into contact with the inner surfaces of said adjacent pipe sections, means for expanding said clamping ring, rollers rigidly mounted at the lower end of the frame for bearing against the lower inner surface of a pipe section, additional rollers resiliently mounted on the frame for contacting the upper inner surface of the pipe thereby urging the rigidly mounted rollers into contact with the lower pipe surface, and an electric motor mounted on said frame for operating said rigidly mounted rollers.

2,594,001
THREE-PHASE CORE
Belvin B. Ellis, Sharon, and Clifford C. Horstman and Charles E. Burkhardt, Sharpsville, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 9, 1949, Serial No. 103,863
2 Claims. (Cl. 175—356)



1. A three-phase magnetic core comprising, three generally U-shaped bundles of laminations of magnetic strip material having a preferred grain orientation in the direction of the laminations and bent flatwise of the laminations to form a winding leg and turned end portions for each of the bundles, the corresponding end portions of the bundles having the ends of certain of the laminations thereof offset with respect to the others and shaped whereby the ends fit together to form butt and lap joints in adjacent layers with the end portions positioned to form common Y-shaped yoke areas, and inserts of magnetic sheet material disposed between adjacent layers of the corresponding end portion laminations to overlap the butt joints of the corresponding adjacent layers in the common yoke areas, the inserts having a preferred grain orientation to provide a most favorable magnetic direction therein, the inserts between the successive adjacent layers of the laminations being progressively turned 120° apart in assembled relation with the layers of laminations whereby the most favorable magnetic direction of the inserts between the successive adjacent layers of laminations is progressively rotated 120°, the inserts between the adjacent layers of the laminations being of substantially the same thickness as that of each of the end portion laminations to give each of the common yoke areas a height substantially equivalent to twice the thickness of the winding leg of one of the individual bundles.

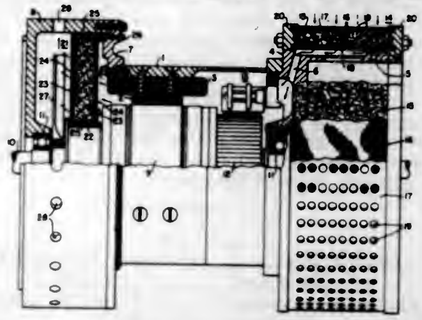
2,594,002
THREE-PHASE CORE
Belvin B. Ellis, Sharon, and Clifford C. Horstman and Charles E. Burkhardt, Sharpsville, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 9, 1949, Serial No. 103,864
1 Claim. (Cl. 175—356)



A three phase magnetic core comprising, three generally U-shaped bundles of layers of laminations of magnetic strip material having a preferred grain orientation bent flatwise of the laminations to form a winding leg and turned end portions for each of the bundles, corresponding end portions of the corresponding layers of laminations of the three bundles terminating in jointed relation with each other in common yoke areas, each of the common yoke areas having the laminations terminating therein in a predetermined joint pattern, the joint pattern consisting of, two of the corresponding layers of two of the corresponding end portions of two of the bundles extending at an angle of 120° to each other and terminating in a butt joint with each other in a given plane, said two of the corresponding layers having butting edges formed thereon at an angle of 60° to the direction of the laminations, the corresponding layer of the corresponding end portion of the third bundle cooperating with another of the layers of one of said two bundles to extend at an angle of 120° thereto and terminating in a butt joint therewith in a plane different from said given plane, the other layers of the bundles corresponding to said another layer of said one bundle also extending at an angle of 120° to each other and terminating in a butt joint in a plane different from said other planes, the joint pattern being progressively repeated throughout the yoke area to give the yoke area a height substantially equivalent to one and a half times the thickness of the winding leg of any one of the individual bundles, the corresponding end portions of the bundles extending outwardly from the common yoke areas at angles of 120° apart.

2,594,003
EXPLOSION-PROOF DYNAMOELECTRIC MACHINE
Harry D. Else and Paul J. Weber, Lima, Ohio, assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 4, 1949, Serial No. 125,557
9 Claims. (Cl. 171—252)

1. In an explosion-proof dynamo-electric machine having a stator member and a rotor member, said stator member including a frame structure enclosing the machine and having openings for entrance and discharge of ventilating air, flame-suppressing means completely closing the paths of air or gases entering or leaving the machine, each of said flame-suppressing means comprising a mass of metal wool, a layer of wire screen on each side of the mass of metal wool, and a perforated metal plate on the outside of



each layer of wire screen, the area of the flame-suppressing means being at least as large as the total area of the air paths it closes to permit substantially unrestricted flow of air therethrough, and the metal plate on the inner side of the flame-suppressing means extending over the entire area thereof which is exposed to the interior of the machine.

2,594,004
SHIELDED ELECTRICAL CONNECTOR
Robert E. Farish, Jr., Columbus, Ga.
Application September 27, 1948, Serial No. 51,441
1 Claim. (Cl. 174—35)



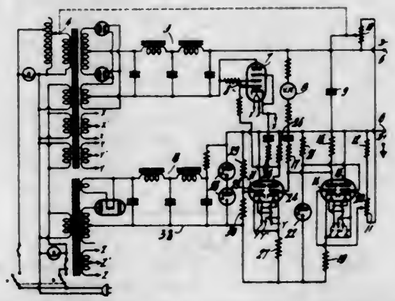
An electrical connector comprising an insulating body having a socket opening through one end thereof, said body having a tapering plug seat at the open end thereof and an annular channel between the ends of said seat, a spring-pressed contact in said socket centrally thereof, a ring embedded in said body, a terminal electrically connected to said ring, resilient contact fingers carried by said ring and disposed in said channel, a conical plug engaging said seat, a contact at the peak of said plug engaging said spring-pressed contact, a contact ring carried by said plug engageable with said fingers, a terminal electrically connected to said contact ring, a cylindrical shield embedded in said body and circumscribing said socket, a contact ring fixed to one end of said shield and formed with at least a pair of keyhole slots, at least a pair of combined plug locking and contact members carried by said plug and engageable in said slots for detachably securing said plug in said seat on alignment thereof with said slots, a removable cap enclosing the outer end of said plug, and a second cap enclosing the other end of said body.

2,594,005
VACUUM TUBE
Samuel Freedman, San Diego, Calif., and Giusto Fonda Bonardi, New York, N. Y.
Original application June 13, 1945, Serial No. 599,161. Divided and this application May 8, 1947, Serial No. 746,774
1 Claim. (Cl. 313—238)



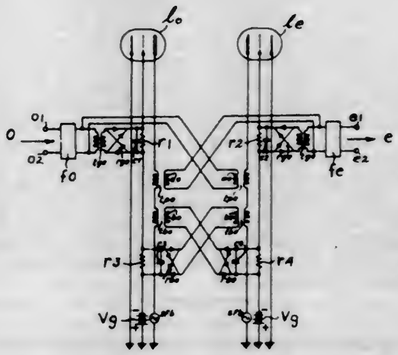
An ultra-high-frequency electron discharge tube comprising an evacuated envelope, an elongated cathode extending axially of said envelope and energizable to provide a beam of electrons, a grid surrounding said cathode and adapted for energization at ultra-high frequencies, an annular anode surrounding said grid, the axial dimension of said anode being only a small fraction of those of said cathode and grid, and beam deflection means disposed at the opposite ends of said grid for deflecting the electrons toward said anode.

2,594,006
VOLTAGE POWER SUPPLY
Albert W. Friend, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 16, 1949, Serial No. 116,199
5 Claims. (Cl. 323—22)



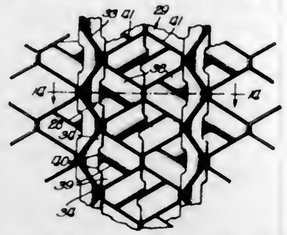
1. A stabilized power supply system comprising in combination, a first source of direct current having a variable input voltage control; a first discharge device having a control electrode serially connected in one output lead of said direct current source in such direction that discharge current normally flows; a second source of direct current having one output terminal connected in common to said discharge device at a point most remote from said first supply, the polarity of said connected output terminal of said second source being of the same polarity as said output lead of said first source in which said discharge device is connected; output voltage terminals connected to said common connection and the other of said output leads of said first source; a voltage stabilizing device connected across said output terminals; a variable impedance connected across said output terminals; a ganged control operating said variable input voltage and said variable impedance; a second discharge device having a control electrode which electrode is connected to said variable impedance; an essentially constant reference potential connected in the discharge path of said second discharge device; an output impedance connected in said discharge path of said second discharge device; a circuit connecting said discharge path in shunt with said second source; a third discharge device having a control electrode which electrode is connected to said output impedance of said second discharge device; an essentially constant reference potential connected in the discharge path of said third discharge device; a circuit connecting said discharge path of said third tube in shunt with said second source; and connections between said output impedance of said third discharge device and said control electrode of said first discharge device.

2,594,007
TWO-WAY SIGNAL REPEATER
Henri Garderè, Paris, France, assignor to Compagnie Industrielle des Telephones, Paris, France, a corporation of France
Application June 4, 1948, Serial No. 31,084
In France June 26, 1947
11 Claims. (Cl. 179—16)



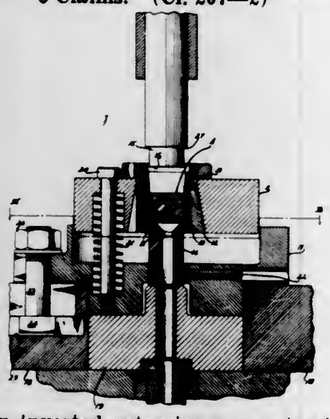
1. In a device for retransmitting signals, two paths connected in parallel between two sections of a two wire telephone line, and each adapted to transmit the signals in one direction, on each channel a rectifier bridge and an input transformer whose primary is connected to the end of one of the sections of the line and whose secondary is connected, through the intermediary of said rectifier bridge, to the terminals of a resistance inserted in the grid circuit of a thyratron, a source of direct voltage negatively biasing the said grid circuit in such manner as to prevent the ignition of the thyratron in the absence of received signal received on the input transformer, and, in the anode circuit of the said thyratron, a source of alternating current of low frequency in series with the primary of an output transformer whose secondary is connected to the end of the other section of the line; the anode circuit of the thyratron of each of the said channels comprising further the primary of a transformer whose secondary is connected, through the intermediary of a bridge of rectifiers to the terminals of a resistance inserted in the grid circuit of the thyratron of the other, so as to prevent the ignition of the latter thyratron when the first is ignited.

2,594,008
CELLULAR CORE FOR HEAT EXCHANGE UNITS
Arnstead G. Getz, Lakewood, Ohio, assignor to The Bishop & Babcock Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application February 7, 1950, Serial No. 142,796
6 Claims. (Cl. 257—130)



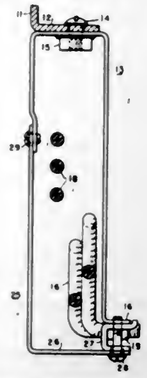
1. In a cellular core for heat exchange units, a plurality of sections each comprising two spaced apart substantially parallel and adjacent sheet metal water walls and a sheet metal spacer therebetween parallel therewith, said water walls having spaced transverse ribs of substantially uniform width projecting therefrom inwardly of said section, the water walls of adjacent sections having their front and back marginal portions secured together and being spaced apart therebetween providing water passages between the water walls of adjacent sections, said spacer having undulatory corrugations extending from front to back thereof providing undulatory ribs of curvilinear formation throughout their length with the undulations thereof merging smoothly into each other, said spacer ribs spanning the space between said two adjacent water walls and respectively seating on said transverse ribs thereof, said spacer ribs having outwardly projecting positioning elements at the outer sides of the undulations thereof straddling the respective water wall ribs restraining said spacer ribs against displacement therefrom, said spacer ribs defining in cooperation with said water walls continuous undulatory air passages extending from front to back of said section.

2,594,009
INVERTED EXTRUSION APPARATUS
Emil F. Giblan, East Cleveland, Ohio, assignor to Thompson Products, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 15, 1947, Serial No. 761,077
3 Claims. (Cl. 207—2)



1. In an inverted extrusion apparatus including a die insert, a billet receiving die ring slidably telescoped around said insert, a split clamping sleeve surrounding said die ring, a spring pressed collar having a tapered aperture in which said clamping sleeve is disposed, and adjustable means on said clamping sleeve thrusting against said collar for forcing said sleeve toward the small end of said aperture and radially contracting said sleeve around the die ring.

2,594,010
SWITCHBOARD CONSTRUCTION
Paul S. Graham, Pittsburgh, and Heyward Kennedy, McKeesport, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 7, 1950, Serial No. 154,648
7 Claims. (Cl. 175—298)



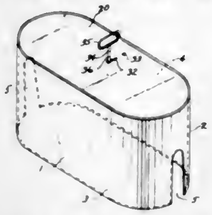
1. In a switchboard structure, in combination, a switchboard panel having a rearwardly extending portion with an inturned flange at the side of the panel, a wire trough secured to said flange, said wire trough having a side member extending rearwardly substantially at right angles to the panel and terminating with a flange disposed substantially parallel to the panel, and an L-shaped member having one leg spaced from and disposed parallel to said side member and the other leg spaced from and disposed parallel to the flange on the side member providing an elongated opening between the flange on the side member and the L-shaped member for wires leaving the trough.

2,594,011
FISHING LINE HOOK PROTECTOR
Noah Granger, Lake Charles, La.
Application November 14, 1949, Serial No. 126,961
1 Claim. (Cl. 43—43.4)



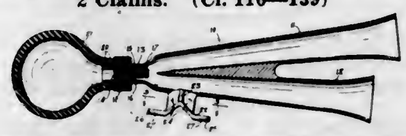
In a fishing hook protector, the combination which comprises a fishing line, a hook carried by a leader extended from the fishing line, and a clip of thin sheet material substantially V-shaped in cross section having sides connected at one of the edges thereof and having inwardly extended flanges on the outer edges mounted on the fishing line and positioned with the said inwardly extended flanges in gripping relation with the line whereby the vertex of the clip provides an opening for receiving the point of a fishing hook carried by the leader.

2,594,012
METER BOX AND COVER THEREFOR
George G. Griffin, Rome, Ga.
Application March 13, 1950, Serial No. 149,407
4 Claims. (Cl. 220—55)



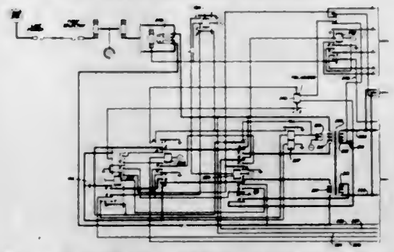
1. A meter box having an inwardly extending ledge providing a seat for a cover, a plurality of spaced, aligned gaps in said ledge and a plurality of spaced, aligned bosses disposed adjacent said gaps, said bosses each having a tapered inner edge, a cover for said meter box adapted to fit snugly within said meter box and on the ledge thereof, a plurality of stiffening members disposed on the under face of said cover, said stiffening members having downwardly depending pedestal members the outer faces of which are adapted to lie close to and parallel to the inner wall of said meter box for an appreciable distance, some, at least, of said pedestal members being disposed for insertion in the said spaced gaps in said ledge, a plurality of tapered lugs disposed on one side of said under face and adapted to engage said spaced bosses on said meter box, a keyhole in said cover adjacent the center thereof, a multi-armed boss on said under face of said cover, two of the arms of which are disposed on opposite sides of said keyhole, one of said two arms being spaced from the adjacent side of said keyhole, a lock for said cover comprising a pivotally supported lock bolt the outer end of which is adapted to engage the underside of the meter box ledge on the side thereof opposite the bosses thereof engaged by the said tapered lugs on said cover, the inner end of which is adapted to engage a stop boss on said cover, a spring mounted between the under face of said cover and the opposed face of said lock bolt for biasing said lock bolt in locking position, said lock bolt having a cam-faced edge adapted for engagement with the end of the web of a key, the said arm, of said multi-armed boss, being adapted to be accommodated in a transverse notch in the web of a key, whereby the said web of a key may be wedged between said arm of said boss and the cam-faced edge of said lock bolt to maintain said lock bolt in unlocked position when a key is inserted in said keyhole and turned to unlocking position.

2,594,013
DUAL TONE REED HORN
Harry Hahn, Bronx, N. Y., assignor to Steelcraft Tool Manufacturing Corp., New York, N. Y.
Application January 28, 1950, Serial No. 141,062
2 Claims. (Cl. 116—139)



1. The combination with a reed horn including a pair of differently pitched horns, a neck section common to the inlets of said horns, and means for blasting air through said neck section; of a one-piece resilient construction comprising one portion folded over a second portion in spaced relation, a reed formed in said one portion and a differently pitched reed formed in said second portion, said portions being compressible together to permit the insertion of the construction in the neck section of said horn, and the resilience of said construction being effective for the retention thereof in said neck section with each of said reeds directed toward a related one of said horn inlets.

2,594,014
CROSSBAR TANDEM OFFICE FOR STEP-BY-STEP TELEPHONE AREAS
William T. Haines, Mountain Lakes, N. J., and James B. Newsom, Great Neck, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 6, 1949, Serial No. 91,732
16 Claims. (Cl. 179—18)

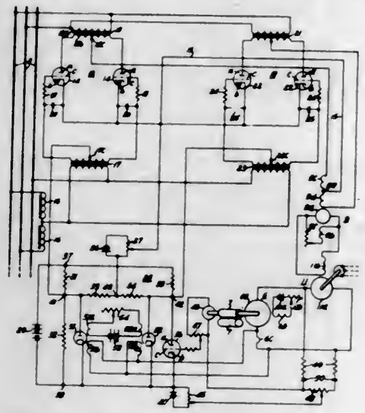


1. In a telephone system, a tandem sender having coding relays operated responsive to the reception of a number, n, trains of pulses, where the total number of trains of pulses to be received at a particular time may be n or $(n+1)$ trains of pulses, a mechanism in said sender operative after the reception of the final pulse of either said n trains of pulses or said $(n+1)$ trains of pulses, and a time measuring device operated responsive to said relays for introducing a delay after the reception of the nth train of pulses to provide time for the reception of said $(n+1)$th train of pulses before operating said mechanism and relay means responsive to said time measuring device for operating said mechanism after said delay.

2,594,015
CONTROL SYSTEM FOR DYNAMOELECTRIC MACHINE UTILIZING A MAGNETICALLY CONTROLLED ELECTRIC VALVE
Allan C. Halter, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis.
Application November 28, 1950, Serial No. 197,949
7 Claims. (Cl. 318—143)

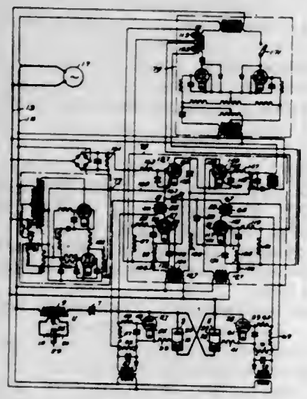
5. In a system for maintaining the speed of an electric motor substantially constant at a predetermined value, the combination of a generator for supplying current to said motor, a pair of differentially acting field windings for controlling the voltage of said generator, a source of current, means connecting said source with said field windings, means comprising a bridge circuit having a pair of output terminals for controlling the values of currents supplied from said source to said field windings, regulating means responsive to the speed of said motor connected with an element of said bridge circuit to produce across said output terminals a control voltage having a polarity and magnitude dependent upon the di-

rection and magnitude of variations in said speed from said predetermined value to cause said field windings to be selectively energized to return said speed to said predetermined value, a diode connected across an element of said bridge circuit, and magnetic control means responsive to the



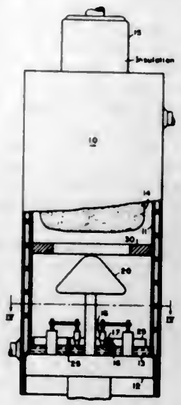
current in said motor attaining a predetermined maximum value for rendering said diode abruptly conductive to overcome said regulating means and to control the energization of said field windings to prevent said current from substantially exceeding said predetermined maximum value.

2,594,016
CONTROL CIRCUITS
Edward C. Hartwig, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 18, 1946, Serial No. 642,041
10 Claims. (Cl. 250—27)



1. Control apparatus for supplying current from a source of alternating voltage to a load, comprising a pair of electric valves of the arc-like type to be connected in circuit with said source and load to control the supply of current, said valves being connected inversely whereby they may be conductive in half-periods of said source voltage of opposite polarity; a pair of capacitors corresponding individually to different ones of said valves; means including timing apparatus adapted to conduct during alternate half-periods of said sources when performing a timing operation and in so conducting causing each of said capacitors to be charged in each half-period of said source voltage of opposite polarity to that in which the corresponding valve may conduct throughout a preselected time interval; adjustable timing means connected to each capacitor for discharging that capacitor at a preselected instant in each half-period in which the corresponding valve may conduct, said preselected instant being determinable at the will of the operator; means connected to each valve and responsive to the discharge of the corresponding capacitor for rendering the valve conductive; and means for maintaining each said valves non-conductive regardless of the polarity of its anode-cathode potential until rendered conductive by the discharge of its corresponding capacitor.

2,594,017
VAPOR-ELECTRIC DEVICE
Lloyd J. Hibbard, Louis A. Casanova, and Robert A. Buchanan, Pittsburgh, Pa., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 9, 1950, Serial No. 167,116
6 Claims. (Cl. 313—164)



1. A vapor-electric device of a type capable of operating while subject to vibration, characterized by having a pool-type cathode, a centrally disposed upstanding insulating barrier extending up from substantially the bottom of the cathode-pool to a point above the normal surface-level of the pool, said centrally disposed barrier substantially completely enclosing a central active cathode-portion, auxiliary barrier-means disposed in the pool outside of said centrally disposed barrier and subdividing the outer peripheral portion of the pool into a plurality of peripherally separated enclosed portions of approximately equal surface-areas, and a make-alive electrode extending down into the pool-surface of said central active cathode-portion.

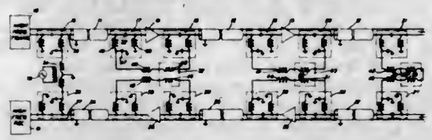
2,594,018
PARACHUTE CONNECTOR LINK
Philip Nelson Hillesheim, St. Thomas, Ontario, Canada
Application July 12, 1950, Serial No. 173,420
4 Claims. (Cl. 244—151)

3. The combination of a parachute canopy, shroud lines attached thereto, and a number of spools each having a cylindrical shank, whereby the shroud lines may be looped and knotted over the said shank, and having circular retaining



rims for the shroud lines at each end of the said shank.

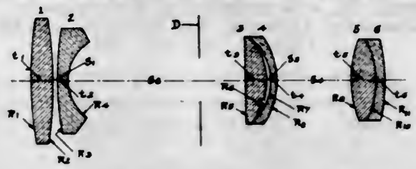
2,594,019
CURRENT SUPPLY APPARATUS
Erwin W. Holman, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 17, 1950, Serial No. 168,828
15 Claims. (Cl. 171—97)



2. Current rectifying apparatus comprising a first rectifier having input and output terminals, means for coupling said input terminals to an alternating-current supply source, a first low-pass filter connected to the output terminals of said rectifier for transmitting the relatively steady direct component and for suppressing alternating components of current supplied thereto from said rectifier, the cut-off frequency of said low-pass filter being less than the lowest frequency alternating component of the current supplied thereto from said rectifier, a high-pass filter connected to the output terminals of said rectifier for transmitting alternating components and for suppressing the relatively steady direct component of current supplied thereto, a second rectifier having input and output terminals, means for coupling the input terminals of said second rectifier to the output terminals of said high-pass filter, a second low-pass filter connected to the output terminals of said second rectifier for transmitting the direct component and for suppressing alternating components of current supplied thereto, and means for supplying direct current transmitted by each of said low-pass filters to a load.

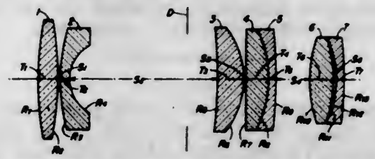
2,594,020
WIDE-ANGLE PHOTOGRAPHIC OBJECTIVE
Robert E. Hopkins and David Goldstein, Rochester, N. Y., assignors to Eigeet Optical Company, Inc., Rochester, N. Y., a corporation of New York
Application June 25, 1949, Serial No. 101,282
4 Claims. (Cl. 88—57)

1. A wide-angle photographic objective of long back focus and large relative aperture for use in a photographic camera, consisting of three coaxial components, air-spaced one from another, each of said components comprising a plurality of lenses, the front component being negative in power and the others both positive, the front component comprising a double convex lens and a convex-concave lens and introducing negative astigmatism, and the rear component introducing positive astigmatism, the concave face of said convex-concave lens facing the middle component, the distortion of the middle and rear components being balanced out by opposite distor-



tion of the front component, said middle component comprising a plano-convex lens and a concavo-convex lens with an air gap between them, the plane face of said plano-convex lens and both faces of said concavo-convex lens facing toward the front component and the air space between the middle component and the rear component being greater than the focal length of the objective, and the air space between the front component and the middle component being a multiple of the focal length of the objective and being at least twice as great as the air space between the middle component and the rear component.

2,594,021
WIDE-ANGLE PHOTOGRAPHIC OBJECTIVE
Robert E. Hopkins and David G. Goldstein, Rochester, N. Y., assignors to Eigeet Optical Company, Inc., Rochester, N. Y., a corporation of New York
Application August 3, 1950, Serial No. 177,526
4 Claims. (Cl. 88—57)



1. A wide-angle photographic objective of long back focus and large relative aperture for use in a camera, consisting of three coaxial components, air-spaced from one another, the front component being adapted to be positioned in front of the aperture diaphragm of the camera and the middle and rear components being adapted to be positioned behind said aperture diaphragm, the front component being negative in power and the others both positive, the front component introducing negative astigmatism and the rear component introducing positive astigmatism the front component comprising two lenses of different dispersive power and high index which are air-spaced, the front lens of said front component being positive in power and the rear lens of said front component being negative in power, the middle component having its surfaces predominantly curved toward said aperture diaphragm and toward said front component and comprising three lenses, the front two of which are positive in power and the rearmost of which is negative in power and made of glass which has a higher index than the positive element of the front component, the foremost element of the

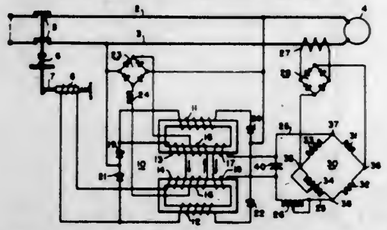
middle component being air-spaced from the two other elements of that component, and the rear component comprising two lenses which are air-spaced from one another, the rear element of the rear component being of higher index than the positive element of the front component.

2,594,022

MAGNETIC AMPLIFIER RELAY CIRCUITS

William F. Horton, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 5, 1950, Serial No. 177,867
11 Claims. (Cl. 175—294)



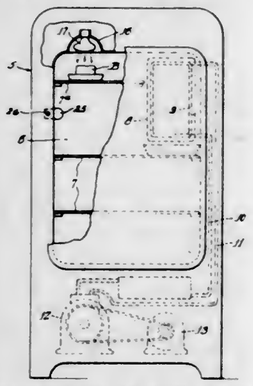
1. Load responsive relay apparatus, comprising an alternating-current supply circuit, contactor means having normally closed contacts in said supply circuit and having a control coil for controlling said contacts to open, a magnetic amplifier having an output circuit connected to said control coil and having saturable reactor means including main coil means and valve means connected in series with each other to said supply circuit to be energized therefrom, said reactor means having saturation controlling direct-current coil means having a part interconnected with said output circuit and poled to provide feedback saturation cumulative to saturation due to current flowing through said main coil means, and current-responsive voltage supply means interconnected with said supply circuit through another part of said direct-current coil means for triggering said amplifier when the current of said supply circuit exceeds a given value.

2,594,023

INFRARED RAY BUTTER SOFTENER

Earl F. Hubacker, Highland Park, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application April 26, 1945, Serial No. 590,398
5 Claims. (Cl. 62—4)



2. In a refrigerator cabinet provided with a cooling chamber that is supplied with coolant fluid by an electric motor driven compressor; a lamp in said cabinet adapted to emit heat rays; means for supplying electric current to the motor to drive said compressor; means for supplying electric current to said lamp; and a thermo-sensitive device coacting with both said means for rendering one means ineffective during the operation of the other means.

2,594,024

FOOT CONDITIONING APPARATUS

Alex Hyde, Santa Barbara, Calif.

Application May 25, 1950, Serial No. 164,262
9 Claims. (Cl. 128—260)



7. Foot-treating apparatus including two separable units, one of said units comprising a liquid reservoir, the other unit comprising a tray having a marginal wall defining a liquid receiving chamber, said reservoir having a grooved portion formed therein for detachably engaging the marginal wall of said tray with a portion of the reservoir positioned within the tray the portion of said reservoir positioned within said tray having an outlet therein for the passage of liquid from the reservoir to the tray.

8. A foot-treating apparatus including a tray having a chamber for a medicating liquid, a layer of synthetic sponge material positioned on the bottom of said tray, said sponge material having high capillary characteristics for holding the liquid in said chamber, a layer of sponge rubber positioned in said tray on said first layer and yieldable under the weight of a person stepping thereon to force the liquid from the first layer of material through the second layer of material for applying the liquid to the foot of said person.

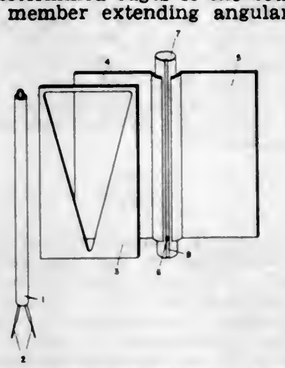
2,594,025

ELECTRON TUBE WITH LUMINESCENT SHIELD, ESPECIALLY TUNING TUBE

Werner Jacobi, Erlangen, Hermann Hinderer, Marloffstein, near Erlangen, and Helmut Katz, Buckenhof, near Erlangen, Germany, assignors to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany

Application October 3, 1950, Serial No. 188,161
In Germany September 9, 1949
9 Claims. (Cl. 313—107.5)

1. In an electron discharge device having an elongated cathode and an elongated fluorescent indicating anode which becomes luminous to display a light pattern responsive to variations lengthwise of the cathode, of the electron flow from the cathode to the fluorescent anode, caused by varying voltages applied to said discharge device, a control electrode to which said voltage variations are applied for controlling said electron flow, said control electrode consisting of an elongated shutterlike member disposed between said cathode and said fluorescent indicating anode and extending solely therebetween, an elongated opening being formed in said shutterlike member through which the electron flow can pass from said cathode to said indicating anode, predetermined edges of the body of said shutterlike member extending angularly so as



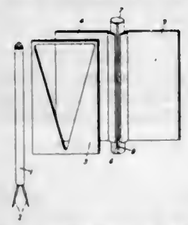
to provide for variable electron flow control longitudinally thereof.

2,594,026

ELECTRON TUBE WITH LUMINESCENT SHIELD, ESPECIALLY TUNING TUBE

Werner Jacobi, Erlangen, and Hermann Hinderer, Marloffstein, near Erlangen, Germany, assignors to Siemens & Halske Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany

Application October 3, 1950, Serial No. 188,162
In Germany September 9, 1949
8 Claims. (Cl. 313—107.5)



1. In an electron discharge device having a cathode, an anode and a control electrode, a fluorescent electrode comprising an elongated support made of glass or the like transparent material, a strip of a fluorescent substance carried by said elongated transparent support only on the side thereof which faces the cathode, said fluorescent substance being rendered luminous to provide a bright indicating column of variable length responsive to varying voltages applied to said discharge device, said transparent support permitting unobstructed observation of the entire luminous column throughout its entire area from a direction in back of the strip of fluorescent substance carried thereby.

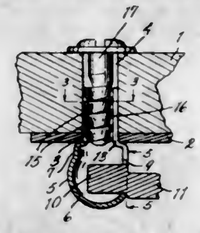
2,594,027

MOUNTING STUD FOR DRAWER PULL HANDLES

Gerald V. Jakeway, Grand Rapids, Mich., assignor to Keeler Brass Company, Grand Rapids, Mich.

Application December 27, 1948, Serial No. 67,333
2 Claims. (Cl. 16—126)

1. A mounting stud for drawer pull handles and the like of thin sheet metal and comprising an integral head and stem, the head constituting means for connection of a handle to the stud, the stem being tubular, the wall of the stem having longitudinally spaced parallel slits therethrough on one side of the stem, said slits in the direction of their lengths being inclined relative to the axis of the stem, the wall portion of the stem between each two adjacent slits being inclined inwardly toward the axis of the stem, the inward inclination of said wall portion commencing from substantially adjacent the slit more distant from the head and terminating at the slit closer the head to provide a thread engaging lug.

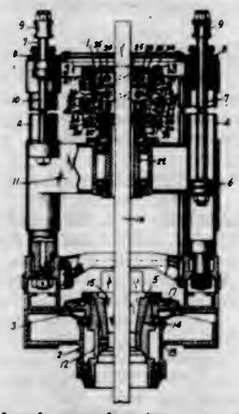


2,594,028

CHUCK MECHANISM

Harry C. Johansen, Michigan City, Ind., assignor to Joy Manufacturing Company, a corporation of Pennsylvania

Application January 4, 1945, Serial No. 571,235
15 Claims. (Cl. 24—249)



3. In a chuck mechanism, a chuck casing through which a member to be gripped is adapted to extend, a pair of crossed links pivotally mounted on said casing at opposite sides thereof and extending in opposite directions and crossing at a plane which includes the longitudinal center line of said casing, a pair of chuck jaws carried by each of said links at opposite sides of the member to be gripped, guiding means engaging said pairs of jaws for maintaining the latter in proper position to grip the member as said links are swung about their pivots, and means for swinging said links in one direction about their pivots to move said pairs of jaws inwardly toward each other into gripping relation with the member to be gripped.

2,954,029

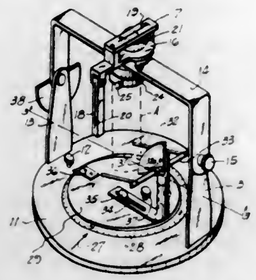
READING DEVICE FOR CORE ORIENTING EQUIPMENT

Charles F. Johnson, Houston, Tex., assignor to Eastman Oil Well Survey Company, Denver, Colo., a corporation of Delaware

Application July 31, 1948, Serial No. 41,774
9 Claims. (Cl. 33—1)

1. A reading device for a core-orienting apparatus which produces a record disk having a rep-

resentation of the low side of the well bore and which marks the core taken thereby, said device including a base having a compass rose thereon, a support rotatable on the base, means on said support for receiving the record disk and the core in the same position the disk and core had within



said bore, a turntable mounted on the base and rotatable with respect to the compass rose, spaced aligning rods mounted on the turntable and adapted to straddle the core, means on said turntable for mounting the rods to swing in vertical planes, and a quadrant for indicating the angle of vertical swing of said aligning rods.

2,594,030
PROCESS FOR PRODUCING ALPHA-MERCAPTO-CARBOXYLIC ACIDS
Robert J. Coons, Chicago, and Casper A. Todaro, Mount Prospect, Ill., assignors to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware
No Drawing. Application March 28, 1950, Serial No. 152,515
8 Claims. (Cl. 260—526)

1. A process for producing a mercapto-carboxylic acid in which the mercapto-group is attached to an aliphatic carbon atom to which the carboxyl group is also attached, comprising reacting a salt of a corresponding alpha-halo-carboxylic acid and an alkali metal thiosulphate in an aqueous medium under conditions yielding a Bunte salt and hydrolyzing the Bunte salt with the aid of sulphuric acid, the concentration of the sulphuric acid in the hydrolysis mixture at the point of completion of the hydrolysis being within the range 25 to 40%.

2,594,031
CONNECTING DEVICE FOR WAVE GUIDES
Marc Jouguet, Orsay, France, assignor to Compagnie Industrielle des Telephones, Paris, France, a corporation of France
Application March 17, 1949, Serial No. 81,897
In France April 8, 1948
2 Claims. (Cl. 178—44)



1. A device for connecting two rectilinear wave guides of circular cross section, said guides being such that the axis of the first guide makes an angle β with a line which is parallel to the axis of the second guide and which crosses the axis of the first guide, said device being so constructed that a wave of the H_0 or TE_0 type which is being propagated in a first one of said guides passes without sensible loss of energy into the second said guide, said two wave guides being prolonged by a first length of curved guide and a second length of curved guide forming arcs the central angles of which are respectively θ_1 and θ_3 which are odd multiples of

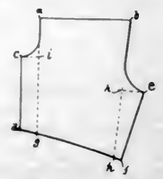
$$\frac{\mu_n \lambda}{2R\sqrt{2}}$$

where μ_n is the nth non-zero root of the Bessel J_1 function according to the Jahnke and Emde tables, and λ is the wave length in free space, and R is the radius of the cross section of the guides, said device being characterized by the fact that it comprises between said first and second lengths of curved guide, an intermediate third length of curved guide forming an arc having a central angle θ_2 such that

$$\cos \theta_2 = \frac{\cos \beta \sin \theta_1 \sin \theta_3}{\cos \theta_1 \cos \theta_3}$$

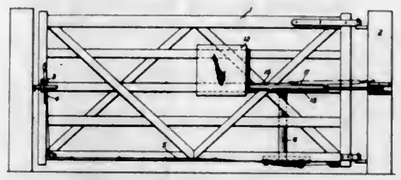
whose curved axis is situated in a plane Q_2 perpendicular to the planes Q_1 and Q_3 of the curved axes of said first and second lengths of curved guide, so that the first said length transforms the H_0 wave into an E_1 wave, and that the intermediate said third length of curved guide transmits the E_1 wave substantially without attenuation, and that said second length of curved guide transforms the E_1 wave into a H_0 wave.

2,594,032
GARMENT
Lorraine Lee Keefer, El Dorado, Kans.
Application October 13, 1949, Serial No. 121,131
1 Claim. (Cl. 2—224)



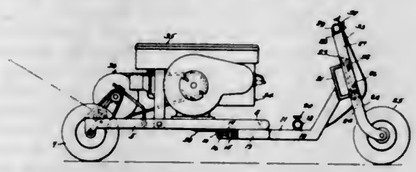
An undergarment composed of two panels, a right and a left, said panels defining the body and leg portions of the garment, said panels having upper, side and bottom edges, the upper edge of each piece forming a part of the waist line of the garment, one side edge of each panel being positioned at the front of the garment and having upper and lower substantially parallel portions connected by a curved portion, the other side edge of each panel being positioned at the rear of the garment and having upper and lower straight portions connected by a curved portion, the last mentioned upper portion being of a greater length than the upper portion of the first mentioned side edge of each panel and the last mentioned curved portion being of a greater length than the first mentioned curved portion, the upper portions of each side edge converging slightly toward the bottom edge of each panel, the lower portions of each side edge of each panel being of the same length, the corresponding upper front and rear edges of each panel being connected together to form the body seams of the garment and the lower side edge portions of each panel being connected together to form the leg seams of the garment.

2,594,033
AUTOMATIC GATE CONTROL
Jack Voyna Leslie Kemp, Tebworth, Leighton Buzzard, England, assignor to Craig Kemp Limited, London, England, a British company
Application December 28, 1949, Serial No. 135,339
In Great Britain December 31, 1948
10 Claims. (Cl. 39—40)



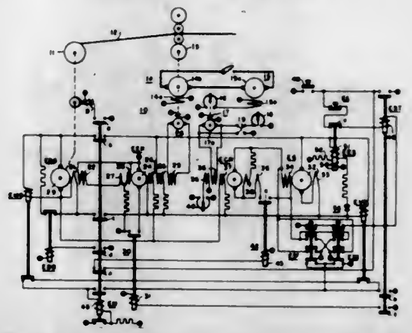
1. A device for controlling a gate hinged to a gatepost comprising a pivoted toggle adapted to be carried by the gate, a connecting rod adapted to be pivoted to the gatepost and to the centre pivot of the toggle, a spring located to be compressed by movement of the toggle towards the straight position, a fixed abutment for the free end of one limb of the toggle, a movable abutment for the free end of the other limb of the toggle, a spring-biased dashpot for delaying collapse of the movable abutment, and a second and weaker spring for restoring the toggle to its initial position after the movable abutment has collapsed, whereby initial movement of the gate in the opening direction straightens the toggle against the bias of the compression spring, and stores energy for release after the toggle has passed the straight position, which stored energy completes the opening of the gate, and the energy stored in the second spring returns the gate to the closed position after the movable abutment has collapsed.

2,594,034
COLLAPSIBLE MOTOR SCOOTER
Keith T. King, Colchester, Ill.
Application March 28, 1949, Serial No. 83,885
2 Claims. (Cl. 180—33)



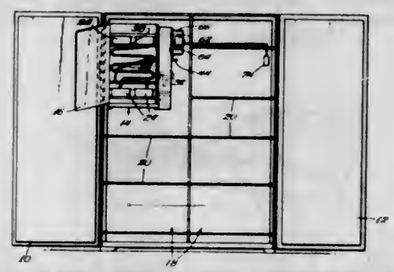
1. In a self propelled vehicle an elongated front frame section carrying adjacent one end a dirigible ground wheel and means to govern the movements of said ground wheel, an elongated rear frame section carrying adjacent one end a traction wheel said rear frame section also carrying a prime mover and means to establish driving connection between the prime mover and the traction wheel, a horizontally disposed pivot shaft carried by the rear frame section intermediate the ends thereof, said pivot shaft extending transversely of the rear frame section below said section and being pivotally connected to the front frame section adjacent the end thereof remote from the ground wheel, and said pivot shaft lying at an acute angle to a perpendicular to the longitudinal axis of the vehicle whereby when the vehicle is folded the front frame section will lie at an angle to the rear frame section.

2,594,035
REEL CONTROL SYSTEM
William D. King, Buffalo, and Amos J. Winchester, Jr., Lockport, N. Y., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 26, 1949, Serial No. 106,938
11 Claims. (Cl. 88—32)



2. The combination with a drag generator connected in driving relation with an entry reel for delivering a strip of material, of generating means connected in circuit relation with the drag generator to maintain a predetermined value of load current therebetween, and relay means operable in response to reversal of voltage at the generating means to effect stoppage of the drag generator.

2,594,036
REFRIGERATOR HAVING FREEZER AND STORAGE COMPARTMENTS WITH SEPARATE CONTROLS
Andrew E. Knapp, Marion, Ohio, assignor to Betz Corporation, Hammond, Ind., a corporation of Indiana
Application May 14, 1948, Serial No. 27,021
2 Claims. (Cl. 62—3)



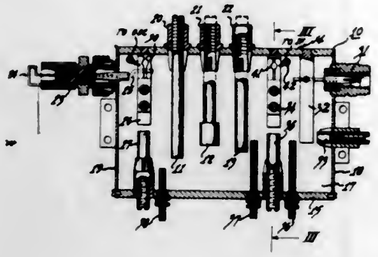
1. In a refrigerator having a freezer and a separate food compartment, refrigerating coils in said freezer, a plate in said freezer cooled by said coils, a slave circuit having a first portion arranged in heat-absorbing relation to said food compartment and in heat-conductive relation to said plate, and also having a heat-discharging portion arranged in direct conductive relation to a portion of said refrigerating coils, a motor-driven fan for circulating the air in said food compartment and directing air to be cooled into contact with said heat-absorbing portion, a first thermostatic element located in the food compartment for controlling the operation of said fan, and a second thermostatic element responsive to the temperature of said plate for controlling the cooling effect of said refrigerating coils.

2,594,037

ULTRAHIGH-FREQUENCY FILTER

Vernon D. Landon, Robert L. Harvey and Eugene O. Keizer, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application August 28, 1946, Serial No. 693,506
9 Claims. (Cl. 178—44)



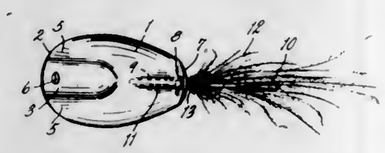
1. A high-frequency filter comprising an elongated cavity structure suited for propagation of high-frequency electromagnetic energy, means for introducing into said cavity structure high-frequency energy having frequencies lower than the cut-off frequency of said cavity structure for attenuation thereof, and two or more structures within said cavity structure and spaced from one another longitudinally thereof to form a corresponding number of tuned coupled circuits, the dimensions of each of said two or more structures determining the resonant frequency of the corresponding tuned circuit and the spacing between them and between walls of said cavity structure determining the coupling between said tuned circuits and the width of the frequency band passed by said circuits.

2,594,038

FISHING LURE

Robert C. Lauterwasser, Ludington, Mich.

Application September 9, 1949, Serial No. 114,777
4 Claims. (Cl. 43—42.52)



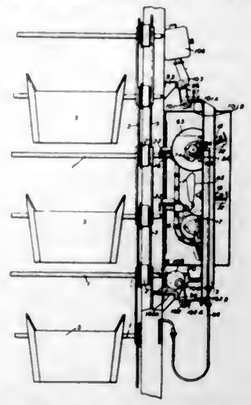
3. A fishing lure comprising, a body of a generally oval outline with its large end disposed forwardly and inclined upwardly and with the opposite side edge portions of the body inclined upwardly throughout substantially the entire length of the body, the large upwardly inclined forward portion having a central longitudinally extending upward offset of substantial length and width providing a forwardly inclined downwardly facing channel, and flange-like portions at each side thereof, said flange-like portions constituting the forward ends of said upwardly inclined opposite side edge portions of the body, said upward offset having a central line attaching opening at its front end, and a hook having its shank disposed above said body, said shank having a fused integral-like connection to the upper side of the body.

2,594,039

APPARATUS FOR DISPENSING LUBRICANT TO THE WHEELS OR ROLLERS OF CHAIN CONVEYERS

Camille Clare Sprankling Le Clair, Acton, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain

Application October 12, 1946, Serial No. 703,064
In Great Britain October 19, 1945
23 Claims. (Cl. 184—15)



1. Apparatus for supplying lubricant to the spindles of a moving main conveyor, each of the spindles having a lubricant receiving nipple, comprising a satellite endless chain conveyor arranged at one side of the main conveyor with one of its runs adjacent to the latter, at least one filling grease gun mounted on said satellite conveyor and including a barrel adapted to be moved from an inoperative position to an operative position and returned to its inoperative position, a lubricant discharge nozzle communicating with said barrel, and a plunger slidable in said barrel and adapted to be moved toward said lubricant nozzle to eject lubricant from said barrel through said nozzle, a plurality of driven means mounted in spaced relationship on said satellite conveyor, a plurality of driving means mounted in spaced relationship on the main conveyor and adapted to cooperate with said driven means so as to drive said satellite conveyor in such manner that said satellite conveyor run is driven in the same direction as the main conveyor, and means independent of and fixed relative to the path of movement of said satellite conveyor and adapted to contact said grease gun while the latter is traveling in said satellite conveyor run so as to cause said barrel to move toward the main conveyor from its inoperative position into its operative position wherein said lubricant discharge nozzle makes a lubricant-tight engagement with a lubricant receiving nipple, to actuate said plunger to eject lubricant from said barrel into said nipple and to permit said barrel to return to its inoperative position.

2,594,040

NIPPLE OR LUBRICANT RECEIVING DEVICE

Camille Clare Sprankling Le Clair, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain

Application July 20, 1948, Serial No. 39,729
In Great Britain July 25, 1947
11 Claims. (Cl. 184—105)

1. A resilient, lubricant-impervious closure member, having a generally cylindrical, nozzle-

engaging head, a recess within said head, a normally closed lubricant duct in the outer end of said head of no measurable lateral dimension extending between the outer end surface of said head and said recess, and annular rigid fulcrum



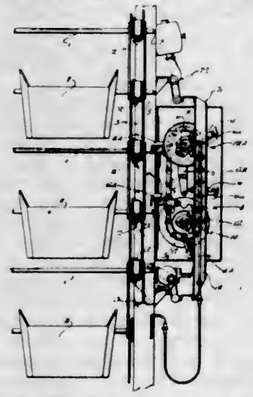
means engaging the inner periphery of said recess radially of the point at which said duct terminates therein to cause said duct to open when the walls of said recess are constricted on the side of said fulcrum means opposite the outer end of said head.

2,594,041

APPARATUS TO LUBRICATE ROLLING ELEMENTS OF CHAIN CONVEYERS OR ROLLING STOCK

Camille Clare Sprankling Le Clair, Acton, London, England

Application February 15, 1949, Serial No. 76,584
17 Claims. (Cl. 184—15)



1. Apparatus for supplying lubricant to the spindles of a moving main conveyor including a satellite endless chain conveyor arranged at one side of the main conveyor with one of its runs adjacent to the latter, a plurality of spaced driven means on the satellite conveyor and a plurality of spaced driving means on the main conveyor adapted to overtake and engage the driven means so as to drive the satellite conveyor in such manner that the satellite conveyor run is driven in the same direction as the main conveyor, characterized by energy supplying means separate from the satellite conveyor structure, and means for connecting said energy supplying means to drive the satellite conveyor when the main conveyor driving means is not driving the satellite conveyor driven means, to prevent the satellite conveyor coming to rest in the time gap when a driving means is not driving a driven means and to allow a driving means to overtake and engage a driven means without causing severe impact.

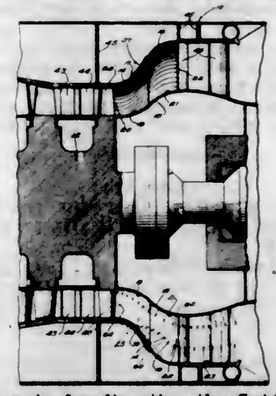
2,594,042

BOUNDARY LAYER ENERGIZING MEANS FOR ANNULAR DIFFUSERS

John G. Lee, Farmington, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware

Application May 21, 1947, Serial No. 749,619
4 Claims. (Cl. 230—132)

1. A diffuser construction comprising inner and outer annular walls which cooperate to form an annular fluid passage that expands in the direction of fluid flow, means for supporting said walls in fixed relation radially with respect to one another, one of said walls having a concave



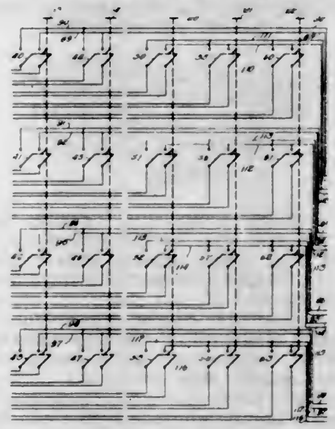
portion therein for diverting the fluid stream toward the other of said walls, and means including driving mechanism operatively connected to said other wall for rotating a portion of said other wall in radial alignment therewith.

2,594,043

SELECTIVE SWITCHING SYSTEM

Arie Liberman, Chicago, Ill.

Application November 9, 1949, Serial No. 126,327
2 Claims. (Cl. 177—353)



1. In an intercommunication system wherein a local station may be connected to a plurality of distant stations, a manually operable switching system of the character described for connecting said local station to a selected one of a plurality of distant stations, comprising: manually operable primary switch means mechanically maintained in either of two limiting positions and comprising a number of groups of single-throw switches, each group comprising four of said switches and having a common operating means, each switch having a movable member and a plurality of fixed terminals; manually operable secondary switch means comprising two double-throw switches each having a movable member and a plurality of fixed terminals, said movable members having common operating means; manually operable tertiary switch means comprising one double-throw switch having a movable member and a plu-

rality of fixed terminals; electrical connections between each of said single-throw switches and one of said distant stations; electrical connections between each of said single-throw switches in each group and the fixed terminals of said secondary switch means; electrical connections between the movable members of said secondary switch means and the fixed terminals of said tertiary switch means; and electrical connections between the movable member of said tertiary switch means and said local station.

2,594,044

SOLVENT EXTRACTION OF OILS WITH DIMETHYLAMMONIUM DIMETHYLCARBAMATE

Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 14, 1950, Serial No. 144,193
3 Claims. (Cl. 196—14.35)

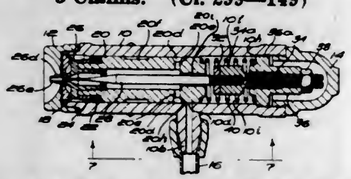
1. A process for refining a mineral oil which comprises subjecting the oil in liquid state to extraction by means of dimethylammonium dimethylcarbamate whereby an extract phase and a raffinate phase are obtained, and separating the two phases.

2,594,045

ATOMIZER

Albert J. Loepsinger, Providence, R. I., assignor to Grinnell Corporation, Providence, R. I., a corporation of Delaware

Application May 1, 1948, Serial No. 24,489
3 Claims. (Cl. 299—149)



1. An atomizer comprising a casing having a chamber at one end thereof connected with a supply of fluid under pressure greater than atmospheric pressure and having a fixed discharge orifice at one end of said chamber; an element movable within the casing separating the internal space thereof into said chamber for the fluid adjacent said orifice and a second chamber for liquid remote therefrom, the second said chamber being connected with a supply of liquid; said element having a nozzle with a continuously open outlet at the end adjacent said fixed orifice and having a longitudinal passageway through said element between said outlet and the said second chamber; an inlet in the side wall of the casing connected with the liquid supply; a cross passageway in said element intermediate of its ends and adapted to connect said longitudinal passageway with said liquid inlet; said element being moved by the pressure of said fluid to position the said continuously open outlet in atomizing relation with said fixed orifice and to position the cross passageway in flow relation with the said inlet for the liquid; the flow of the fluid under pressure greater than atmospheric pressure past the said nozzle outlet creating a pressure less than atmospheric pressure within the passageways of said movable element and within said second chamber whereby the liquid flows into said passageways and said second chamber and is also discharged from said continuously open outlet; and spring means effective upon shutting off said fluid pressure to move said element to close said fixed orifice and said liquid inlet to said casing; the last said movement of the element causing enlargement of the said second chamber with consequent further reduction of pressure therein below atmospheric pressure whereby the atmospheric pressure outside said continuously open outlet moves the liquid in said element near its outlet and in its said longitudinal passageway toward said second chamber.

2,594,046

GAUGING DEVICE FOR CHECKING AXIS RELATIONSHIP

Louis J. Mahlmeister, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio

Application September 26, 1946, Serial No. 699,554
15 Claims. (Cl. 73—37.5)



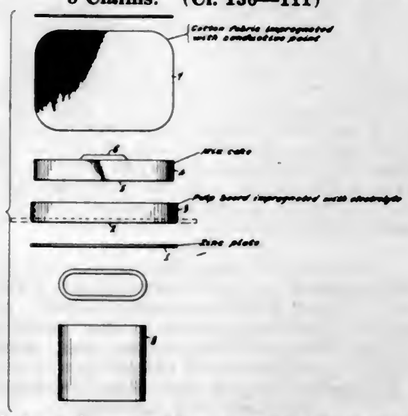
3. Gauging apparatus for measuring or comparing the axis parallelism of two spaced cylindrical areas of a part, comprising a work carrier having two spaced carrier portions provided with surfaces adapted for loose interfitting engagement with the respective areas of the part, said portions being provided with a plurality of sets of pairs of gauging nozzles and each pair of gauging nozzles comprising two axially offset transversely opposed nozzles adapted for cooperation with opposite sides of an area of the workpiece to control the amount of leakage of fluid supplied to the nozzles in accordance with the spacing between the nozzles and the workpiece area, and means having connections to said nozzles for comparing the cumulative leakage effect of a set of said gauging nozzles with the cumulative leakage effect of another of said sets to show deviation of axis parallelism of the areas of the part.

2,594,047

CATHODE

John M. Martinez, New Haven, Conn., assignor to Olin Industries, Inc., New Haven, Conn., a corporation of Delaware

Application March 22, 1946, Serial No. 656,203
8 Claims. (Cl. 136—111)



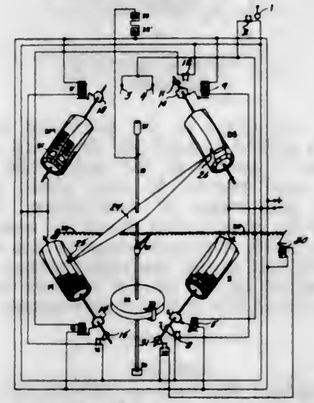
1. A dry cell comprising an anode, a separator carrying electrolyte salt in contact with the anode, a depolarizing mix in contact with the separator, and a flexible, impervious cathode in contact with the depolarizing mix, the cathode comprising a porous member impregnated with a carbon paint.

2,594,048

CHRONOGRAPHIC ARRANGEMENT FOR ELECTRIC STATIONS

Emile Pierre Masson, Saint-Maurice, France

Application June 26, 1947, Serial No. 757,165
In France June 28, 1946
6 Claims. (Cl. 346—33)



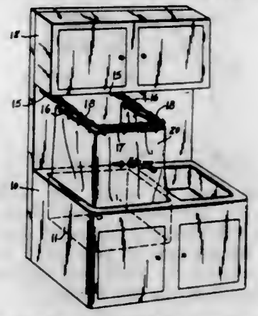
1. In a time recording device, an electrical oscillographic recorder, a plurality of cylindrical metal drums respectively representing integrally related and progressively increasing lengths of time intervals, each of said drums being peripherally provided with a plurality of longitudinal rows of raised contact studs which rows progressively increase in number of studs in arithmetic progression, row by row, circumferentially of each said drum, master timing means for producing a succession of electric current pulses which are precisely spaced in time, a first shaft fixedly carrying the one of said drums representing the shortest interval of time, electromagnetic step-by-step drive means driven by said master timing means and adapted to rotatably step-by-step drive said first shaft and to advance the said drum carried thereon circumferentially from one said row to the next, means controlled by the rotation of said first shaft through one complete turn and adapted to cause the rotation from one of its peripheral rows to the next of the said drum representing the next shortest time interval, cascaded control means controlled by the completion of one complete rotation by said drum representing the next to the shortest time interval and adapted to drive in stepped catenary sequence each of said other drums upon the completion of a complete rotation by each of said drums respectively, a rotatably mounted spindle comprising brush means carried thereby, auxiliary control means comprising a cam carried by said first shaft and adapted to cause rotation of said spindle in synchronism with said master timing means, said drums and said spindle being so mounted that during rotation of said spindle, said brush means successively engage one said row of each of said drums, and a control circuit connected for controlling said recorder and comprising said brush means connected serially with all of said drums connected in parallel, whereby said recorder can at each instant record the angular position of each of said drums and the time thereby represented.

2,594,049

BATHTUB CURTAIN FRAME

Nicanor Matos, New York, N. Y.

Application September 10, 1949, Serial No. 115,001
5 Claims. (Cl. 4—149)



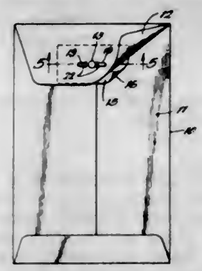
1. A bath curtain frame comprising dual telescopic arms each having a plurality of sections, the endmost of said sections each having extensible supports adapted to be erected vertically, a cross member connecting the upper ends of said extensible supports, and side arms pivotally connected to said cross member and positionable parallel to said telescopic arms, said cross member and said side arms providing support for said bath curtain.

2,594,050

CLASP TYPE CLOSURE FOR ENVELOPES

George H. Matthiesen, Chicago, Ill.

Application November 12, 1947, Serial No. 785,293
1 Claim. (Cl. 229—78)



An envelope having a body and a closure flap provided with a hole, a substantially rectangular blank having an adhesive coating on one side, and a metallic clasp having an enlarged head engaging the adhesive coated side of the blank and having a pair of spaced prongs extending through slits in the blank for nonrotatably carrying the blank, said prongs also extending through slits in the closure flap closely adjacent the hole therein and bent over against the outside of the closure flap for nonrotatably carrying the clasp and hence the blank with the exposed adhesive coated side of the blank positioned to contact the envelope body when the closure flap is closed.

2,594,051

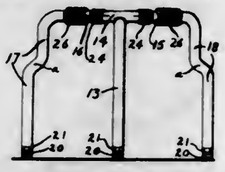
WALKING SUPPORT

Arley McFarland, Augusta, William H. Reetz, Wichita, and William E. Burbank, El Dorado, Kans.

Application October 7, 1946, Serial No. 701,836
5 Claims. (Cl. 155—22)

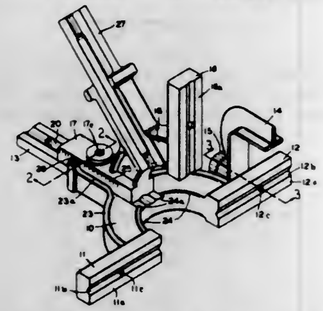
1. In a support device of the kind described; said device having a pair of horizontally posi-

tioned and opposingly curved support members, one portion of each support member being bent downwardly to form a leg element, said leg elements having outwardly directed curves therein to increase the distance between the bearing



points of the legs, a third leg element, each curved support member being detachably attached to an attachment element that is rigidly fixed on the upper end of the third leg element, and means carried by each leg element for adjusting the height of the leg element.

2,594,052
THREE-WAY CLAMPING FIXTURE
Alfred V. McFerron, Rocky River, and Harold D. Myers, Cleveland Heights, Ohio, assignors to McFerron-Myers Products Company, Rocky River, Ohio, a corporation of Ohio
Application February 25, 1948, Serial No. 10,736
1 Claim. (Cl. 113—99)



A clamping fixture comprising a Y-shape rigid frame, the frame having a pair of branching arms and a tongue extending away from the junction of said arms, a block at the free end of each of said arms and rigid therewith, each said block being constructed and arranged to support work clamped to a face thereof, each said block having parallel sides on opposite sides of said face, parallel ribs on said tongue spaced apart a distance substantially equal to the distance between said parallel sides, the tongue being adapted to receive a block of a second similarly constructed clamping fixture between said ribs in slidable, locking relation thereto.

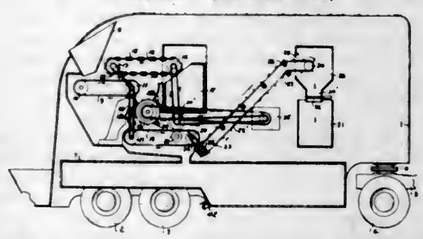
2,594,053
CHILD'S CHAIR PROTECTOR WITH BIB FEATURE
George E. McKewen, Baltimore, Md.
Application June 30, 1949, Serial No. 102,294
2 Claims. (Cl. 2—49)

1. Child and table protector comprising a flat rectangular flexible waterproof sheet member having a substantially rectangular recess equidistant from its side edges, defining lateral panels, extending forwardly to a transverse line adjacent the middle of said sheet member, said sheet member having a depending flange about its outer perimeter boxing its outside corners adapting it to be fitted down over the four sides of a rectangular table top, an elastic band extending obliquely of each corner of said sheet member secured at its ends to the free edge of said flange at points on opposite sides of the apex of said corner, means for bridging said recess at the rear for tethering said lateral panels, a bib unitary with said sheet member deflectable upwardly from the plane of said side panels along said transverse line, said bib having



armholes, and gores in the angles at the base of said bib united to said bib along the sides of said bib up to points at the under side of said armholes, and united to said sheet member along the side edges of said recess, whereby when said bib is deflected upwardly against the front of a child, it is held close to the sides of the child by said gores, the latter acting as protective closures of the angles between said upwardly deflected bib and said side panels.

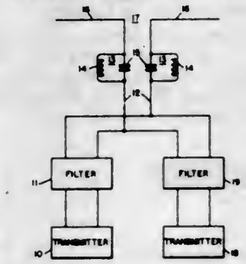
2,594,054
GARBAGE DISPOSAL APPARATUS
Patrick V. McNamara and Roy E. Nicholson, Detroit, Mich.
Application October 23, 1946, Serial No. 705,110
1 Claim. (Cl. 100—50)



In a garbage disposal apparatus, a chambered body, a hopper to receive the garbage positioned within said body, a longitudinally movable belt upon which the garbage is dropped from said hopper, a second longitudinally movable belt above and adjacent the first belt in parallel relation therewith, a series of magnets spaced upon said second belt by means of which any iron particles in the garbage may be removed therefrom, a container into which one end of said second belt cooperatively extends and into which the removed metal particles fall, the top wall of said container being so formed adjacent said magnet carrying belt as to scrape off accumulated particles therefrom, a chambered member below and at the end of said first belt for receiving said garbage, a toothed grinding wheel within said chambered member and cooperable with the interior walls thereof for shredding said garbage, a longitudinally movable belt within the lower portion of said chambered member on which the shredded material is discharged, an upwardly inclined conveyor with its lower end adjacent and below the end of said last named belt and arranged upon the exterior of said chambered member, a second elevated chambered member into which the upper end of said conveyor extends and having a bottom discharge opening, a

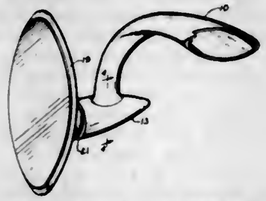
removable container below said discharge opening into which the processed material is discharged, a pair of crushing and wringing rolls adjacent the top and bottom surfaces of the movable belt within the lower portion of said chambered member, and a tank in said body and in communication with the lower end of said first chambered member for receiving the liquid material expressed from the garbage.

2,594,055
ANTENNA COUPLING SYSTEM
Coleman J. Miller, Catonsville, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 29, 1949, Serial No. 101,942
5 Claims. (Cl. 250—33.69)



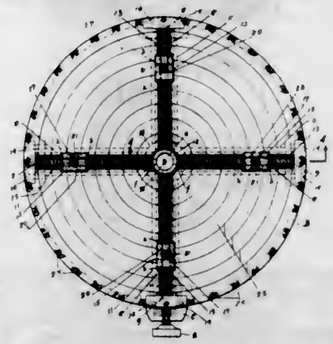
1. An antenna system for use with two radio frequency sources having different frequencies, comprising a dipole antenna resonant at a frequency midway between said frequencies, a pair of transmission lines for connecting said frequency sources to said antenna, and means forming parallel-tuned circuits in series with said transmission lines and said antenna, said circuits being resonant at said midway frequency.

2,594,056
REVERSIBLE REARVIEW MIRROR ASSEMBLY
David M. Morgenstern, Cleveland, Ohio, assignor to Nelmor Corporation, Cleveland, Ohio, a corporation of Illinois
Application August 2, 1950, Serial No. 177,249
3 Claims. (Cl. 88—98)



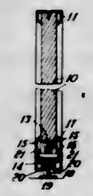
1. In a rear view mirror assembly for motor vehicles, the combination of an arcuately curved arm having one end adapted for attachment to a vehicle and having at the other end a socket, a mirror support having a complemental surface portion adapted to engage in said socket in one of at least two opposed relative positions at the sides of the vehicle with the longitudinal axis of said arm being disposed in a plane at a right angle to a longitudinal axis of said support, means for securing said support to said arm in one of said positions and a mirror swivelly connected to one end of said support and disposed normally in a plane at a right angle to the longitudinal axis of the support and parallel to the plane of the longitudinal axis of the arm.

2,594,057
UNIVERSAL CHUCK VICE
Anthony A. Muehling, Detroit, Mich.
Application June 30, 1950, Serial No. 171,463
2 Claims. (Cl. 279—112)



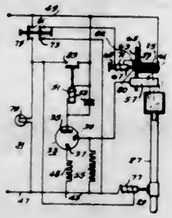
1. A universal chuck vice adapted for shop bench work modeling, comprising a rigid mountable, horizontal base section formed with circular rim sections at opposite edges thereof and provided with a central pivot bearing, a circular chuck block plate formed with radially positioned grooves within the upper surface, rotatably mounted on the base section pivot bearing, adjustable chuck blocks slidably mounted within the chuck block plate grooves, chuck block adjusting means mounted within said plate grooves and operatively connected to said chuck blocks, designed for moving same in opposite directions to desired positions, and suitable locking means for rigidly retaining the said chuck block plate in various rotated positions.

2,594,058
ROLLER SUPPORT FOR SLIDING DOORS
Harold G. Myhr, Pacific Grove, Calif.
Application May 6, 1949, Serial No. 91,836
1 Claim. (Cl. 16—100)



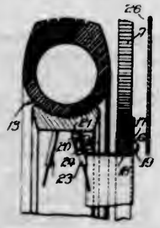
A roller support for sliding doors and the like, comprising a roller receiving channel strip having longitudinally aligned roller receiving slots formed therein, rollers extending through said slots, said strip having longitudinally extending laterally spaced parallel depressed channels depending below said rollers thereby defining lateral guards upon opposite sides of said rollers to prevent accidental lateral displacement of the rollers from a supporting rail upon which the rollers are adapted to travel, and an upstanding side flange upon each side of said strip laterally of each channel, and each flange having an upper inturned door abutment edge to hold the flange in braced lateral spaced relation relative to a door upon which the strip is adapted to be secured thereby defining a spaced shield along the bottom edge of the door upon which the roller support is adapted to be carried.

2,594,059
FLAME CONTROL APPARATUS
George W. Nagel, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 19, 1947, Serial No. 792,743
6 Claims. (Cl. 158—28)



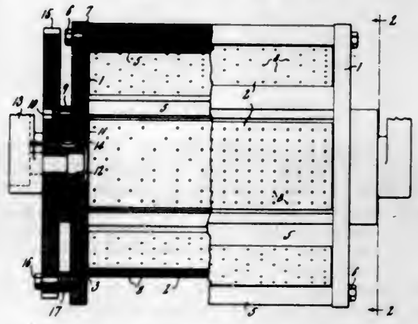
3. Apparatus for controlling the operation of a fuel burner including a conduit for supplying fuel to be burned and a mechanism operable when closed to block, or when open, to permit the flow of fuel through said conduit; comprising in combination an electric discharge device having a gaseous medium at a low pressure, at least a first main electrode, a firing electrode adjacent to said first electrode and a second main electrode, said firing electrode and first main electrode being so spaced and dimensioned that said device is adapted to have an auxiliary discharge initiated between said firing electrode and said first electrode to produce a discharge between said main electrodes; first and second voltage terminals for supplying a potential to said discharge device; a connection between said first electrode and said first terminal; circuit means including a motor between said second terminal and said second electrode; said motor being adapted to maintain said mechanism open when said current flows; a fixed impedance between said firing electrode and said first terminal; a first probe connected to said second terminal, a second probe connected to said firing electrode; said probes being adapted to be disposed in a flame produced by said fuel when it is burned; said fixed impedance being so selected that an auxiliary discharge is initiated between said firing electrode over said first electrode only if said conductive path is established.

2,594,060
MOTOR DRIVE FOR BICYCLES
Steffen P. Nemeth, Chicago, Ill.
Application October 6, 1949, Serial No. 119,901
2 Claims. (Cl. 180—33)



1. A bicycle motor-drive comprising a driving gear mounted on the bicycle to rotate about a horizontal axis and positioned laterally of one of the bicycle wheels adjacent its rim, a sectional driven gear composed of a plurality of arcuate gear segments arranged at one side of said bicycle wheel in spaced relation to the outer portions of the spokes thereof, a plurality of coextensive arcuate supporting segments angle-shaped in cross section and extending laterally from the bicycle wheel, outwardly disposed ears formed on the inner perimeter of the angle-shaped segments contiguous to spokes of the wheel and in abutment with the rim thereof, and a clip coacting with each of said ears and clamping said angle-shaped segments to spokes of said wheel, the outer portions of the angle-shaped segments being secured to the gear segments and supporting the same in their spaced relation with the bicycle wheel and maintaining the gear segments in meshing engagement with the driving gear and extended beyond said gear segments and arranged in overlapping relation to the driving gear.

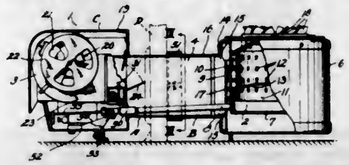
2,594,061
PLATING BARREL
Ferris E. Newman, New Haven, Ind., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 25, 1949, Serial No. 123,441
9 Claims. (Cl. 259—89)



1. A plating barrel comprising a pair of end members forming the ends of the barrel, a plurality of foraminous panels held longitudinally between said end members and forming the sides of the barrel, and a plurality of longitudinal rail members between said panels, said parts being composed of a heat-cured composition comprising a cashew nut shell oil-modified phenol-aldehyde resin convertible to insoluble, infusible form under the action of heat and a hardening agent, a methylene-yielding hardening agent for said resin, a rubbery copolymer of butadiene and acrylonitrile, and diatomaceous earth, the relative proportions being as follows: in said end members and in at least a major proportion of the thickness of said panels from 30 to 40% of said copolymer and correspondingly from 70 to 60% of said resin, and from 30 to 40% of diatomaceous earth; in said rail members from 30 to 45% of said copolymer and correspondingly from 70 to 55% of said resin, and from 30 to 45% of diatomaceous earth; said percentages being by weight based on the sum of said copolymer and said resin.

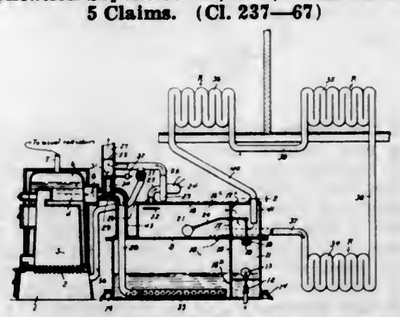
2,594,062
OIL-FIRED CONVERSION BURNER
Edward A. Norman, Jr., Columbus, Ohio, assignor to Norman Products Company, Columbus, Ohio, a corporation of Ohio
Application September 16, 1948, Serial No. 49,580
2 Claims. (Cl. 158—91)

1. In a fluid fuel-burning conversion burner for furnaces, a burner vessel for insertion within a furnace; a casing disposed around said vessel; an air-admitting duct communicating with said casing and extending a distance outwardly therefrom and providing for the admission of combustion air to said vessel; a second duct slidably and telescopically connected at one end with said air-admitting duct and forming a continuation of the latter, a housing connected with and supporting the opposite end of said second duct and adapted to be arranged exteriorly of the furnace; a blower carried in said housing and having a discharge



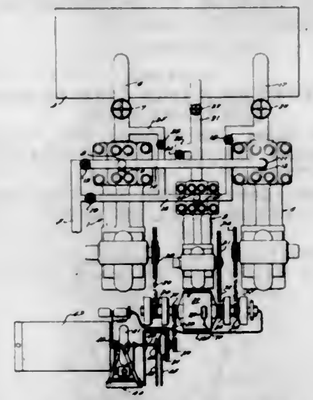
outlet connected with said second duct and operable to force air through said second duct, said air-admitting duct and into said casing; adjustable clamp means connected with one of said ducts for preventing movement relative to the other of said ducts; a fuel supply conduit connected with said burner vessel and extending through said ducts for conducting fuel to said vessel; and means connected intermediately of said conduit means for varying the effective length thereof.

2,594,063
HEATING SYSTEM
Joseph T. Norman, Huntington Mills, Pa.
Application September 22, 1948, Serial No. 50,571
5 Claims. (Cl. 237—67)



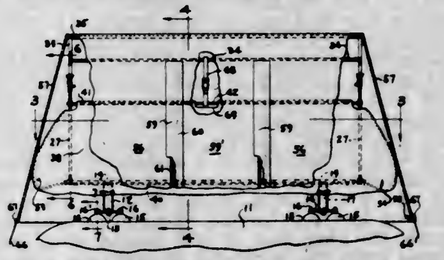
2. In combination with a furnace having a smoke outlet, of an auxiliary apparatus comprising a casing containing water, a pump, a pipe connection from said smoke outlet to said casing, a pipe connection from said casing to said pump, a pipe connection from said pump to a chimney connection, a pipe connection between said first mentioned pipe connection and said chimney connection and an automatic valve controlling passage through said last named pipe connection, said valve being constructed to open while said pump is at rest and to be closed when said pump is in action by the pressure differential generated adjacent the valve by the moving gases, said first mentioned pipe connection including a section extending into said casing below the water level and delivering the products of combustion into the water, said casing including a steam chamber and a return chamber, said second mentioned pipe connection leading from said return chamber to the pump, a set of serially connected radiators connected to said steam and return chambers respectively, means to maintain water at a predetermined level in said steam chamber, and a float-valve-controlled port between said return chamber and said steam chamber.

2,594,064
POWER-TRANSMITTING SYSTEM FOR SLUSH PUMPS OR THE LIKE
Charles Martin O'Leary, Los Angeles, Calif.
Application January 9, 1947, Serial No. 721,141
11 Claims. (Cl. 103—5)



1. In combination, a pair of positive displacement pumps adapted to be connected in series flow relation, a driving shaft adapted to be connected to a source of power, a pair of driven shafts, means connecting said driven shafts respectively to said pumps, and a differential gear set connecting said three shafts.

2,594,065
AUTOMOBILE ROOF SLEEPING ENCLOSURE
George O'Neill, St. Clair Shores, Mich.
Application November 19, 1949, Serial No. 128,434
8 Claims. (Cl. 135—1)

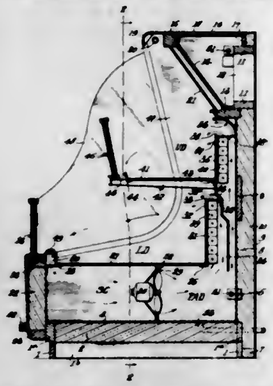


1. In a sleeping enclosure a platform, a tent support thereon including upright tubes adjacent the corners of said platform and mounted thereon, vertically adjustable rods within said tubes and projecting upwardly therefrom, and a flexible side and end wall enclosure with its lower periphery extending under and joined to the underside of said platform throughout its periphery, and with the upper periphery of said enclosure supportably and removably joined to said rods adjacent the upper ends of said tubes.

8. In a sleeping enclosure a platform, a tent support thereon including upright tubes adjacent the corners of said platform and mounted thereon, vertically adjustable rods within said tubes and projecting upwardly therefrom, upwardly converging roof beams at opposite ends of said platform mounted upon said rods, outwardly extending hooks mounted upon said rods above said tubes, and a flexible side and end wall enclosure with its lower periphery joined to the under side of said platform, a longitudinal slotted portion formed at the tops of the sides of

said enclosure, supporting shafts projected through said slotted portions with their ends joined to said hooks, spaced cross-rods interconnecting said roof beams, and adjustable straps interconnecting said shafts with an adjacent cross-rod, whereby said shafts may be swung outwardly and upwardly to correspondingly move upper portions of said enclosure.

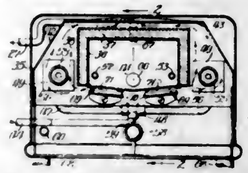
2,594,066
TWO-DECKER DAIRY SELF-SERVICE REFRIGERATOR
Richard E. Pabst, San Antonio, Tex., assignor to Ed Friedrich, Inc., San Antonio, Tex., a corporation of Texas
Application June 13, 1950, Serial No. 167,849
2 Claims. (Cl. 62—89.5)



1. A refrigerated self service display case having a base with front and back walls, a shelf disposed in said case in spaced relation with said base, a vertically extending partition mounted on said base and engaging said shelf, a vertically extending rear wall on said shelf arranged in spaced relation with the back wall of said case, said rear wall terminating in a perforated horizontal flange and with a plurality of openings formed in said rear wall adjacent said flange, a second shelf disposed in said case superjacent said first shelf, said second shelf having a vertically extending rear wall terminating in a perforated horizontal flange engageable with the back wall of said case, the rear wall of said second shelf having a plurality of openings therein adjacent its horizontal flange, the rear wall of said second shelf being spaced from the back wall of said case with the lower end portion of said rear wall extending below said second shelf and projecting between the rear wall of said first shelf and the back wall of the case to define a plurality of air ducts, refrigerating means positioned in each of said air ducts adjacent the rear walls and horizontal flanges of said shelves, an air circulating fan positioned in said partition for forcing a stream of warm air through said ducts and over said refrigerating means to cool said air prior to its delivery through the openings in said rear walls and the perforations in said horizontal flanges.

2,594,067
WATER-HEATING UNIT
Herbert W. Peters, Milwaukee, Wis., assignor to Cory Corporation, Chicago, Ill., a corporation of Delaware
Application February 11, 1949, Serial No. 75,818
4 Claims. (Cl. 122—236)

1. A water-heating unit comprising a horizontal water-heating tank, a pair of fuel economizers located at either side of said tank, conduits leading from said economizers to said tank, cold water pipe connections leading into said economizers, a hood overlying said tank and economizers, a gas burner disposed below said tank and extending lengthwise thereof, and a pair of refractory strips located below said tank in closely spaced relation to the bottom thereof,



said strips extending lengthwise of said tank and spaced apart laterally to form an opening therebetween directly above said gas burner, the arrangement being such that the products of combustion from said burner pass upwardly through said opening and then divide and pass through the narrow spaces between said strips and the bottom of said tank and thence upwardly past said economizers.

2,594,068
ANTISKID TIRE CHAIN
Milow W. Pike, Omaha, Nebr.
Application September 11, 1950, Serial No. 184,308
2 Claims. (Cl. 152—242)



1. A tire chain, comprising a single side chain having end joining means, a pair of members hinged together for swinging movement toward and from each other, a plate fixed to one of said members and pivotally connected to said other member, a link plate pivotally connected to said members having means for limiting the movement of said members, means carried by said first-named plate for engagement with said link plate to hold said members against movement with respect to each other, and cross chains connecting said side chain to said members.

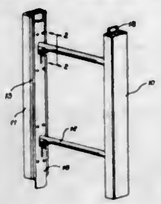
2,594,069
BATTERY VOLTAGE SELECTOR JUMPER BOARD AND TERMINAL BOARD FOR INDUSTRIAL TRUCK CHARGERS
George Pochlmann, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application February 28, 1948, Serial No. 11,938
1 Claim. (Cl. 173—328)

An electric terminal board and jumper board assembly for a circuit adaptable for charging various types and sizes of batteries comprising, in combination, a terminal board comprising an insulating panel and a plurality of spaced conductive terminals mounted thereon, said terminals being provided with conductor-attaching means, and a jumper board separably secured to said terminal board, said jumper board comprising a rectangular insulating panel smaller than said terminal board and having a plurality of indexing apertures and a plurality of fixed conductive jumpers mounted thereon, each of said jumpers having contacts at spaced points thereon for engaging a pair of said spaced terminals to connect them, said terminals being distributed on said terminal board in a predetermined pattern, and contacts being distributed on said jumper board in a plurality of different circuit patterns



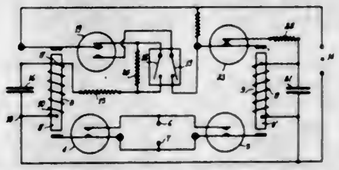
corresponding in part to a selected portion of said terminal pattern and in part to other portions of said terminal board pattern, said terminal board including indicating means cooperating with said indexing apertures to define a predetermined electric circuit pattern.

2,594,070
LADDER
George E. Reagle, Jamestown, N. Y.
Application March 2, 1951, Serial No. 213,646
2 Claims. (Cl. 228—59)



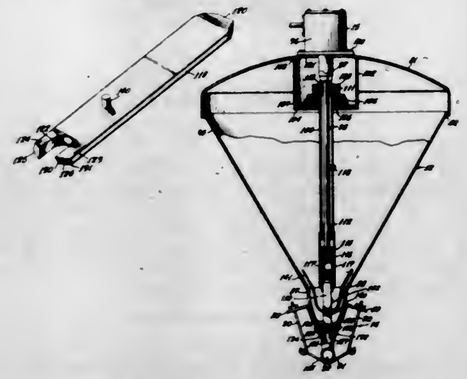
1. A rung type ladder comprising a pair of wooden side rails, metal reinforcing strips for said rails, each of said strips being mounted in a recess on the inner side of each rail and secured in a position flush therewith, a plurality of saddle-like rung supports formed integral with and extending at right angles to the direction of the length of each strip, each of said supports registering with a rung-end opening in said rail, a rung end mounted on each support and extending into the corresponding side rails opening, and means forming part of said strip projecting into said rail opening and serving to wedge-secure the rung end.

2,594,071
CODE SIGNAL TRANSMISSION SYSTEM
Claude Reverchon, Lons-le-Saunier, France
Application October 1, 1949, Serial No. 119,122
In France June 14, 1949
9 Claims. (Cl. 178—79)



1. In a sender for transmitting code groups of dots and dashes, means for generating a first uniform sequence of dot signals, means for generating a second uniform sequence of bridging signals at a rate of frequency substantially one half that of said first dot sequence, means for synchronizing the output of said second generating means with the output of said first generating means, means for preventing said second generating means from initiating its operation except during the production of one of said dot signals, and common output means for both said dot and said bridging signals.

2,594,072
HOPPER WITH BOTTOM DISCHARGE OPENING AND MEANS FOR METERING THE PASSAGE OF GRANULAR MATERIAL THROUGH SAID OPENING INTO A DELIVERY CONDUIT
Ian M. Ridley, Burbank, Calif.
Application March 29, 1949, Serial No. 84,172
7 Claims. (Cl. 222—241)

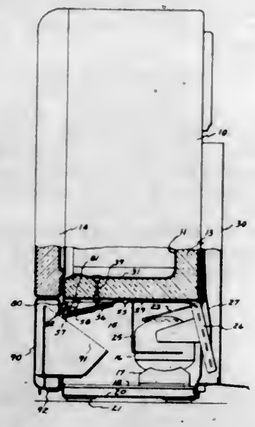


1. In cement blowing apparatus comprising a funnel-shaped hopper outlet means including metering means at the lower end of the hopper and power means for operating said metering means, to regulate the downward flow of a feed material through said outlet means, said outlet means comprising a metering orifice having a tapered seat around the upper end thereof, said metering means comprising an elongate metering blade projecting longitudinally above the orifice and having a tapered lower end conforming to the taper of said seat normally bearing gravitationally thereagainst for rotative sliding movement, an axially disposed driven element having a slot-shaped recess adapted loosely to receive the upper end of said blade and hold the same upright in operative position relative to said orifice, a transverse pin projecting through the blade and a substantially U-shaped agitator having a bottom slot adapted to slidably receive the elongate blade, said agitator adapted to be carried on said transverse pin and rotated together with and by means of said elongate blade.

2,594,073
CONDENSATE DISPOSAL SYSTEM FOR REFRIGERATORS
Carl G. Robbins, Chicago, Ill.
Application August 6, 1948, Serial No. 42,933
8 Claims. (Cl. 62—116)

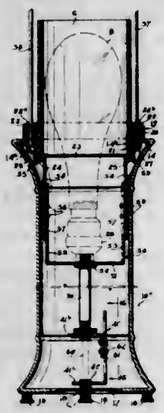
1. A condensate disposal system for a refrigerator including a cabinet and a refrigerant compressor, a condenser and an evaporator with refrigerant conduits connecting them, said conduit

between the condenser and the compressor being disposed beneath the bottom wall of the cabinet and being formed with a portion extending downwardly in spaced relation thereto, a drain for said cabinet, and a receptacle disposed opposite said drain and means for supporting said receptacle with said downwardly extending portion of



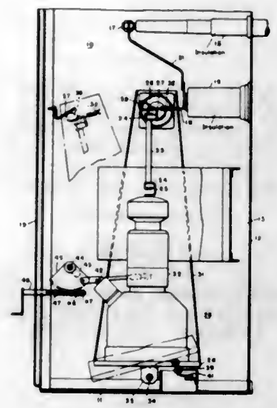
the conduit adjacent the bottom thereof, said supporting means being formed to provide guides for lowering and raising said receptacle from around said conduit upon removal or replacement of the receptacle, the fluid in the receptacle being in heat transfer relation with the conduit when the receptacle is in position.

2,594,074
LAMP SUPPORT FOR INSERTION IN TUBULAR LAMP STANDS
Lawrence Rosenfeld, New York, N. Y.
Application February 19, 1949, Serial No. 77,360
5 Claims. (Cl. 240—81)



1. A lamp support for a hollow housing having an open top surrounded by an inwardly extended ring wall, comprising a ring frame fitted snugly into the ring wall, an outer circular wall continuing from the top of said ring frame and resting on the ring wall supporting the ring frame, a horizontal flange extended inward from the bottom of said ring frame, hanger bars depended vertically from opposite sides of said flange into the hollow housing, a cross bar mounted on the bottom ends of said hanger bars, and a lamp socket mounted on top of said cross bar concentric with said ring frame, said hanger bars being of a length so that the top portion of a lamp screwed into said socket will be projected above the top of said ring frame.

2,594,075
METAL ENCLOSED SWITCHGEAR
Harold H. Rugg, Pittsburgh, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 9, 1949, Serial No. 103,828
7 Claims. (Cl. 175—298)

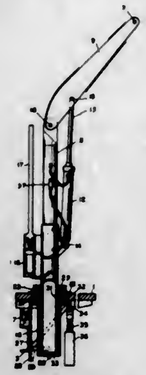


1. In switchgear apparatus, in combination, a housing, a frame pivotally mounted in the housing, a transformer mounted in said frame and having a high potential terminal, a power conductor disposed in the housing, contact means carried by the frame for engaging the power conductor when the transformer is in its operating position, a fuse connecting the terminal on the transformer to the contact means on the frame, mechanical means operable from without the housing for actuating said frame and transformer about their pivotal support to connect the transformer to the power conductor through said fuse and said contact member, and a ground contact member in the housing, said frame and transformer being so mounted on the pivotal support that they are actuated by gravity to disconnect the fuse and the transformer from the power conductor and connect them to the ground contact member in the event that the mechanical means becomes disconnected.

2,594,076
TRUCK MOUNTED CRANE
Seymour Schlein, Cleveland, Ohio, assignor, by mesne assignments, to Ruger Equipment, Inc., Uhrichsville, Ohio, a corporation of Ohio
Application June 2, 1948, Serial No. 30,691
13 Claims. (Cl. 212—35)

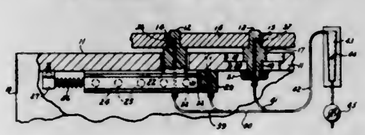
1. In combination, a truck having a deck, steel frame rails supporting such deck, a tubular socket having its upper portion inserted in an opening through such deck near the right rear corner thereof, a laterally extending peripheral flange on said socket engaging the underside of such deck and secured thereto, brace means connecting said flange and socket to the nearest of said

frame rails, a vertical mast journalled for rotation in said socket, a boom pivotally connected to the upper end of said mast, a fluid pressure operated piston-cylinder assembly pivotally connected to said mast and boom and operative to raise and lower the latter, a hand operated double-acting pump mounted on said mast to operate



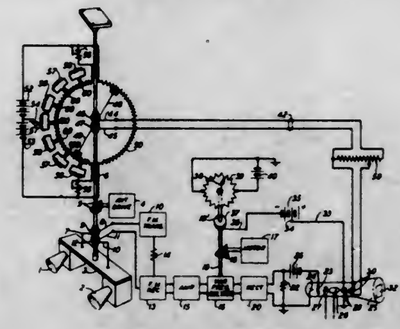
said piston-cylinder assembly, the lower end of said socket being closed to adapt said socket and lower portion of said mast to serve as a sump for hydraulic fluid, a stabilizer leg pivotally secured to said flange adapted directly to brace such deck and crane when said crane is in use, and means for adjusting the length of said leg.

2,594,077
GAUGING DEVICE
Louis J. Schulze, Dayton, Ohio, assignor to The Sheffield Corporation, Dayton, Ohio, a corporation of Ohio
Application May 10, 1951, Serial No. 225,471
3 Claims. (Cl. 73—37.5)



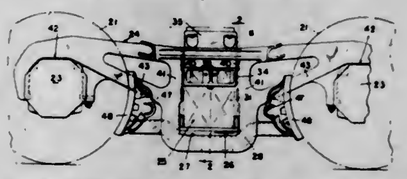
1. Gauging apparatus for gauging the center spacing of spaced holes in a part comprising a support having an upwardly extending fixed spindle, a second spindle parallel to the fixed spindle, means supporting said second spindle on said support for movement towards and from the fixed spindle at right angles to the spindle axes, a pair of gauging elements one fixed to the support and one fixed with respect to the second spindle, an air gauging orifice on one side of the fixed spindle for cooperation with one of the holes in the part to be gauged, an air gauging orifice on the other side of the second spindle for cooperation with the other hole in the part to be gauged, air gauging orifices carried by one of said gauging elements for cooperation with the other gauging element, the flow through the gauging orifices of the gauging element being the same as the combined flow through the gauging orifices on the spindles when a part having the desired hole spacing is applied to the apparatus, means urging the second spindle in a direction to space the ends of the spindle orifices from the sides of the holes adjacent thereto, and common means for showing the total flow of air supplied under pressure through all of said orifices.

2,594,078
ELECTRONIC MARKER FOR CATHODE-RAY INDICATOR TUBES
Ray R. Scoville, Glendale, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 30, 1946, Serial No. 658,554
7 Claims. (Cl. 343—10)



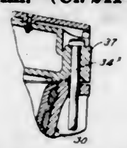
1. In a radio system which comprises in combination transmitting means, receiving means, an antenna connected to said transmitting and said receiving means, said antenna having a driving means attached thereto through a drive shaft, a cathode ray tube connected to said receiving means, said tube having a source of a beam of electrons, an indicator screen disposed in the path of said beam, and a sweep circuit connected to control the motion of said beam on said screen, a source of power, and a voltage divider connected between said source of power and said sweep circuit, said voltage divider comprising a resistor and a contact which moves on said resistor in synchronism with the movement of said antenna drive shaft, means for producing electronic marker lines on said indicator screen which comprise irregularities in the resistance characteristic at spaced intervals on the resistor of said voltage divider.

2,594,079
INBOARD RAILWAY TRUCK
James C. Setfles, Columbus, and Loree Elwyn Furniss, Groveport, Ohio, assignors to The Buckeye Steel Castings Company, Columbus, Ohio
Application July 15, 1947, Serial No. 761,038
23 Claims. (Cl. 105—197)



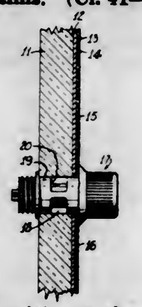
1. A railway truck comprising opposed, wheel-supported side frames, each side frame having a bolster opening and a second opening in its top above the bolster opening, a bolster supported by the side frames and having its ends extending into the bolster openings, upstanding side bearing tables arranged on the bolster and extending through said second openings, and damping means mounted in the bolster at the places where the side bearing tables are located and cooperating with the side frames to damp relative movement between the bolster and side frames.

2,594,080
GYRATORY CRUSHER
Ruland R. Shafter, Freeport, N. Y., assignor to Nordberg Manufacturing Co., Milwaukee, Wis., a corporation of Wisconsin
Application June 9, 1947, Serial No. 753,467
1 Claim. (Cl. 241—299)



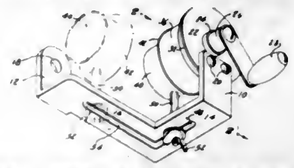
In a gyratory crusher structure, a base having a circumferential upper outer flange, a multipiece top shell formed of individual annular shell elements, each shell element having superposed, outwardly projecting top and bottom flanges, connecting radial generally upright reinforcements and a frustoconic inner body portion formed unitary with the flanges and the reinforcements, the flanges abutting directly the opposed flanges of the base or of the adjacent shell elements, all the flanges being of substantially the same diameter, unitary means for securing the shell elements together and to the base including tie rods extending upwardly through the flange of the base and through the superposed upper and lower flanges of all the shells, the tie rods being radially out of line with the radial reinforcements, and a conical liner within the shell and formed of a plurality of superposed annular sections the joints of which are staggered vertically in relation to the joints between the annular shell elements, and a spider member having arms supported upon the upper flange of the uppermost shell section, said arms including portions overlying the upper edge of the uppermost annular liner section, and other portions overlying the upper ends of certain of said tie rods, others of said tie rods passing through certain of said spider arms and securing the spider member and said shell sections together and to the base member.

2,594,081
ILLUMINATED PANEL
Charles N. Shlenker, New York, N. Y., assignor to Edwin A. Neugass, Port Chester, N. Y.
Application June 30, 1950, Serial No. 171,444
5 Claims. (Cl. 41—22)



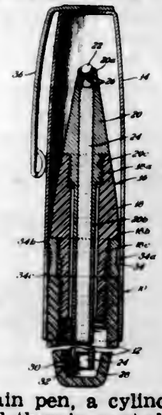
1. A panel comprising a sheet of light transmitting material, a light colored translucent film formed of an elastomeric and low-reflective flexible material and superposed on said sheet, and a dark colored opaque film formed of an elastomeric and low-reflective flexible material and superposed on said translucent film, said opaque film being formed with a roughened low-reflective outer surface and cut through to expose said translucent film for defining characters.

2,594,082
SOAP CAKE HOLDER
Gustav J. Sickelka, Philadelphia, Pa.
Application August 29, 1951, Serial No. 244,241
3 Claims. (Cl. 45—28)



1. A soap cake holder including a bracket adapted to be secured to a support, a disc rotatably mounted on said bracket, means for securing a soap cake to said disc with a side of said cake abutting said disc, means for rotating said disc and said soap cake, an annular, open-ended guard adapted to engage the opposite side of said soap cake, and means mounting said guard on said bracket for movement into, and out of, engagement with said soap cake.

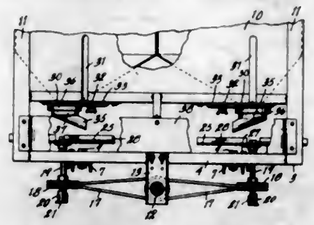
2,594,083
BALL-POINT PEN AND CAP
Frank Vern Silver, Chicago, Ill.
Application July 8, 1948, Serial No. 37,544
3 Claims. (Cl. 120—42.4)



1. In a fountain pen, a cylindrical barrel, an ink feed channel therein vented to atmospheric pressure, a ball seated in the end of the channel to be wetted by ink flowing therethrough under force of gravity and movable from sealing relationship with its seat, a ring seal projecting from the outer surface of the barrel intermediate the ends thereof, a closed end cap engageable over the ball end of the barrel and engageable with the seal with the open end extending past the same for an appreciable distance lengthwise of the barrel whereby withdrawal of the cap will attenuate the air in the same to create a partial vacuum therein to unseat the ball and break an air lock formed by recession of ink from the ball due to the force of gravity when the pen is carried in upright or vertical position with the ball uppermost.

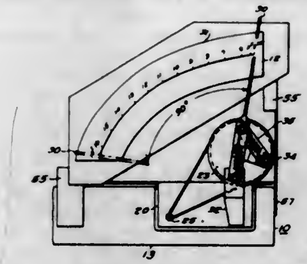
2,594,084
SEED AND FERTILIZER SPREADER
Henry Skibbe and Harold A. Skibbe, Eau Claire, Mich.
Application April 29, 1946, Serial No. 665,750
7 Claims. (Cl. 275—8)

1. A spreader machine comprising a supporting frame, a hopper on said frame and having a discharge opening, a generally horizontal but tiltably adjustable distributor disk supported on said frame below said hopper, and a delivery spout supported from said frame and positioned between said opening and said disk, said spout being horizontally rotatably adjustably mounted ap-



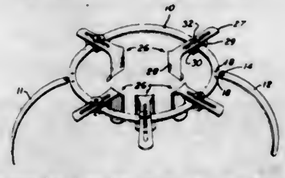
proximately over the center of said disk for approximately 360° angular adjustment and having a discharge mouth disposed laterally of the axis of rotation of said spout whereby the point of delivery of said spout to said disk may be adjusted angularly completely about the axis of rotation of said disk.

2,594,085
RADIO APPARATUS
Homer E. Smith, Northumberland, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1948, Serial No. 5,045
7 Claims. (Cl. 116—124.2)



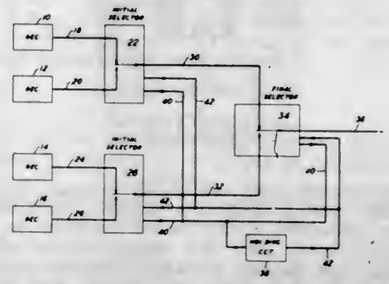
1. In combination, a rotor of a tuning device, a shaft for said rotor, an eccentric on said shaft, a pointer and scale for indicating the position of said rotor, a first pivot for said pointer, a second pivot on said pointer, and a single link pivoted to said eccentric at one end and connected to said second pivot to transmit rotary movement from said rotor to said pointer to cause said pointer to rotate about said first pivot.

2,594,086
TABLE SUPPORTED ABDOMINAL RETRACTOR
David P. Smith, Meriden, Conn.
Application April 29, 1950, Serial No. 158,981
6 Claims. (Cl. 128—20)



1. In a surgical retractor, a continuous, integral, circular supporting ring, a plurality of retracting elements movably mounted upon said ring, a pair of side arms attached by flexible joints to opposite portions of said ring, and a pair of adjustable clamps on said side arms for securing said side arms to a support.

2,594,087
RADIO RECEIVER SELECTION SYSTEM
Robert O. Soffel, Hastings-on-Hudson, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 20, 1949, Serial No. 94,313
12 Claims. (Cl. 250—20)

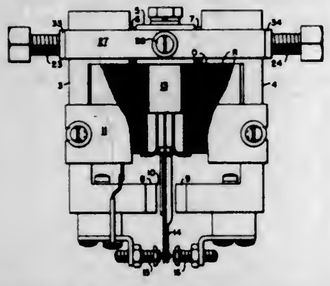


1. In a communication system in which a number of receivers of the same message signal are employed and in which the desirability of the signal output of each receiver is indicated by a variable unidirectional voltage, a system for comparing said voltages and for interconnecting to a common message circuit the signal output of that receiver that produces the most desirable unidirectional voltage, said system comprising a selection device respective each pair of receivers for comparing the amplitudes of their unidirectional voltages, each such device comprising a relay differentially connected to the receivers and including means for biasing the relay in a selection condition, interconnecting means actuated by said selection devices and which during any interval is responsive only to the selection device which is then selecting the most desirable voltage for connecting the signal output of that message receiver associated with the most desirable voltage to said common message circuit, lock-up means responsive to a change in selection by a selection device for adjusting the biasing means in each of said devices to hold each device in its then selection condition during the interval said interconnecting means is switchng from one to another receiver output in response to such change in selection, and means for restoring said biasing means to their initial condition and said selection devices to an operating condition at the completion of each interconnecting switching operation.

2,594,088
POLARIZED RELAY CONSTRUCTION
William K. Sonnemann, Roselle Park, and Kolman Riesz, Gillette, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 5, 1950, Serial No. 160,164
3 Claims. (Cl. 175—339)

1. A polarized electromagnet-structure comprising: a three-piece magnetizable frame, consisting of two magnetizable side-pieces, a central rear-end magnetizable block, and non-magnetic spacers permanently connected between the block and the rear ends of the respective side-pieces so as to provide fixed rear-end gaps, the front

ends of said side-pieces terminating in inwardly facing pole-pieces separated by a gap; a permanent magnet bridging across the side-pieces at an intermediate point thereof; an inwardly projecting fixed magnetizable armature-core extending forwardly from the approximate center of said rear-end block; a flexible magnetizable leaf-spring response-member carried by said



armature-core and extending through the gap between said pole-pieces; electric exciting-coil means mounted in operative relation to said armature-core; and two magnetizable adjustment-screws passing inwardly through the rear ends of the respective side-pieces, and for an adjustable distance across the respective rear-end gaps.

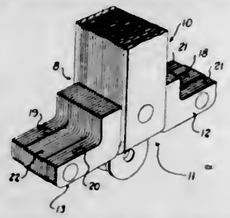
2,594,089

SOLENOID WITH PLUNGER

Edgar M. Soreng, Skokie, Hardin Y. Fisher, Hillside, and George D. Johnson, Bensenville, Ill., assignors to Soreng Manufacturing Corporation, Schiller Park, Ill., a corporation of Illinois

Application May 29, 1950, Serial No. 164,982

3 Claims. (Cl. 175—338)



1. In a solenoid of the type adapted to be energized by an alternating current: a laminated frame having at one end thereof a plunger opening and a pair of poles at opposite sides of the axis of said opening in the direction of the frame laminae; a laminated plunger having a stem projecting into the frame through said opening and reciprocable endwise therein, the laminae of the plunger being parallel to the laminae of the frame; wings on the outer end of the plunger laminae providing an enlarged head on the plunger, the inner side of which provides a pair of poles each opposite and cooperable with one of the poles of the frame and movable toward engagement therewith upon travel of the plunger stem into the frame in consequence to energization of the solenoid; and means on certain of said poles defining tripodal projections, one at one of said sides of the axis of the plunger opening and two at the other of said sides of said axis, each of said projections comprising extensions on a group of adjacent laminae projecting toward the pole opposite thereto and having a substantially flat surface engageable therewith upon energization of the solenoid.

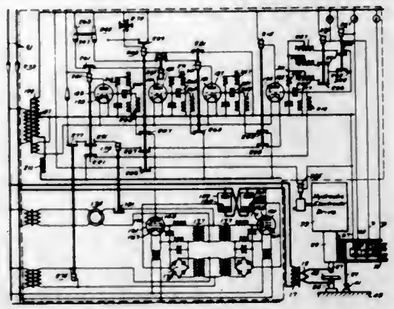
2,594,090

AUTOMATIC TIMING SYSTEM

Clarence B. Stadum, Buffalo, N. Y., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 10, 1948, Serial No. 1,523

13 Claims. (Cl. 219—4)



1. An article of manufacture for controlling the welding of material of different thicknesses from a power source with apparatus including electrodes, means for applying force between said electrodes and said material, said force, F, being independent of thickness and being determined empirically as that force which yields satisfactory welds over the range of thickness of the material to be welded and the flat end diameter, *d*, the angle of taper, A, and the equivalent spherical radius, R, of said electrodes being determined empirically as the electrode dimensions which yield satisfactory welds for the force F and the range of thickness of the materials to be welded, means for transmitting current through said electrodes and said material independently of thickness, the peak magnitude of said current being determined empirically as that which yields satisfactory welds for the force F and the range of thickness of said material and a timing network for determining the time interval during which said current is transmitted; consisting of a device responsive to the thickness of the material and adapted to cooperate with said network for varying said interval in accordance with the thickness of said material.

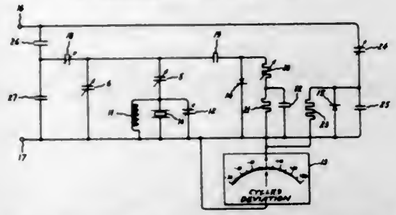
2,594,091

PIEZOELECTRIC CRYSTAL FREQUENCY DISCRIMINATOR

Harry R. Summerhayes, Jr., Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 28, 1949, Serial No. 73,354

3 Claims. (Cl. 178—44)



3. In a frequency discriminator comprising a piezoelectric crystal, an adjustable capacitor in series with said crystal for providing minimum impedance at an adjustable series resonant frequency with said crystal and a second capacitor in parallel with said series connected capacitor and crystal for providing maximum impedance

parallel resonance at a frequency removed from said series resonant frequency, an inductance in parallel with said crystal proportioned to compensate the effective shunt capacitance represented by said crystal and the circuit portions associated therewith, thereby to maintain the frequency discriminating impedance characteristic of said discriminator through a limited range of variation of said adjustable capacitor.

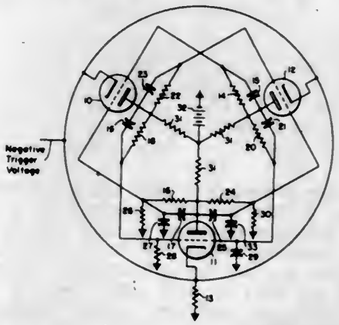
2,594,092

MULTIVIBRATOR

John W. Taylor, Jr., Baltimore, Md., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 30, 1950, Serial No. 152,897

13 Claims. (Cl. 250—27)



1. A scale-of-three multivibrator comprising three electron tubes each having a cathode, a control grid and an anode, resistors connecting the grid of each tube with the anodes of the other tubes, an anode voltage supply source having a positive terminal connected to said anodes, means interconnecting said cathodes, and a cathode resistor connecting said interconnected cathodes to the negative terminal of said source.

2,594,093

POWDER CONTAINER

Robert E. Thompson, Lisle, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

Application February 5, 1949, Serial No. 74,788

8 Claims. (Cl. 128—272)



1. A capsule for holding medicinal powder comprising a container member and a cap therefor, one of said members containing a pair of small apertures, and a thread removably passed through said apertures successively, the ends of said thread being outside the capsule, the thread being operative to seal off said apertures and prevent the escape of powder therethrough.

2,594,094

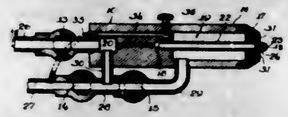
GAS BURNER WITH FLAME RETENTION PORTS

Floyd Todd, Springfield, Pa., assignor to Fisher Scientific Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application March 11, 1948, Serial No. 14,329

9 Claims. (Cl. 158—27.4)

1. A gas burner comprising a nozzle providing inner jet forming means and outer jet forming means substantially concentric therewith, two separate gas supply means, first means providing communication between one of said supply means and said inner jet, second means providing communication between the other of said supply



means and said outer jet, a cross connection between said first and second means, a constriction in said first means, and a control valve in said second means to regulate the amount of gas flow ing therethrough with respect to the amount flowing through said first means.

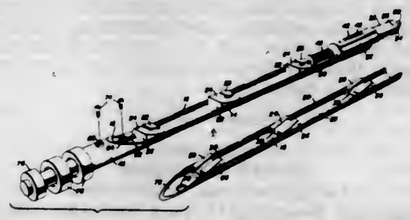
2,594,095

COLLAPSIBLE PAPER REWINDING SHAFT

Robert E. Torregrossa and Roy D. Babington, Bogalusa, La.

Application April 9, 1951, Serial No. 220,084

6 Claims. (Cl. 242—72)



1. A collapsible shaft comprising a tubular member having an elongated slot, a plurality of blocks fixed in said member in registry with said slot, an elongated concavo-convex section adapted to oppose the slot in said member, a plurality of blocks fixed to the concave surface of said section, the blocks fixed to said member having inclined guide surfaces and the blocks fixed to said section also having inclined guide surfaces complemental to the guide surfaces of the first named blocks, interconnecting means between the first named blocks and the second named blocks, means for adjusting the section longitudinally of the member with the blocks fixed to the section slidably engaging the blocks fixed to the member to adjust the section laterally of but parallel to the member, and means detachably securing the section to the member.

2,594,096

PROCESS FOR TREATING WINDINGS WITH COMPLETELY-REACTIVE COMPOSITIONS

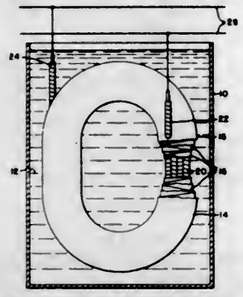
Warren M. Trigg, Wilkinsburg, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania

Application January 21, 1949, Serial No. 71,846

2 Claims. (Cl. 117—93)

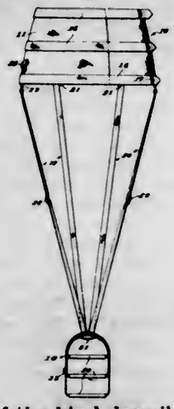
2. In the process of applying a predetermined amount of an insulating resin to a winding comprising a conductor and having interstices, the steps comprising immersing the winding in a body of a completely-reactive, fluid resinous composition which will polymerize to a non-flowable gel when heated above a predetermined temperature, the winding being below the said predetermined temperature when first immersed in the fluid resinous composition so that the composition will freely penetrate into the interstices of the winding, thereafter progressively polymeriz-

ing a predetermined amount of the fluid resinous composition in and adjacent to the immersed winding to a non-flowable gel, said polymerization being effected by passing an electrical current through the conductor to heat the winding to a temperature above the predetermined temperature for a period of time whereby a limited amount of the composition in and adjacent to



the winding is polymerized to a gel, withdrawing the so-treated winding while it is maintained at the predetermined temperature from the body of the fluid composition, draining ungelled composition from the winding, and continuing the heating of the winding and the applied gelled composition thereon to polymerize the gelled composition to a cured state.

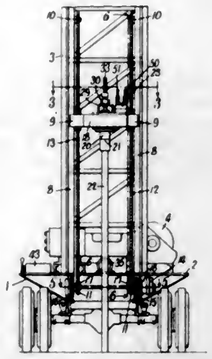
2,594,097
BODY HARNESS
Lewis Twyman, Miami, Fla.
Application November 15, 1949, Serial No. 127,316
6 Claims. (Cl. 128—1)



1. A device of the kind described comprising a relatively wide hips and abdomen-engageable girdle, straps supported by and depending from the girdle at opposite sides of the fore and aft center thereof, and a single foot-engageable stirrup jointly supported by the straps.

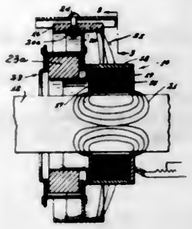
2,594,098
DRILLING APPARATUS
Harry H. Vanderzee, Chicago, Ill., assignor to Joy Manufacturing Company, a corporation of Pennsylvania
Original application November 29, 1943, Serial No. 512,131. Divided and this application March 7, 1946, Serial No. 652,729
11 Claims. (Cl. 255—22)

1. In a drilling apparatus, feeding mechanism for positively feeding a drill toward the work including a rotary fluid operated feeding motor and connections operated by said motor for applying a substantially continuous forward feeding pressure on the drill during drilling, drill rotating mechanism including a rotary fluid operated rotation motor which is subjected to load changes during drilling, means for supplying



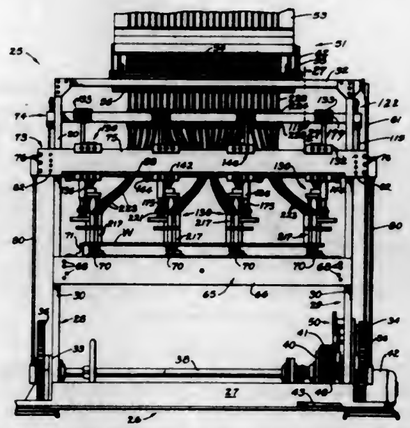
fluid under pressure to said motors, and means including a fluid actuated control valve responsive to pressure changes in said supply means of said rotation motor due to load changes on said latter motor for automatically regulating the flow of fluid in said supply means of said feeding motor to vary the forward feeding pressure on the drill.

2,594,099
FOCUSING COIL FOR CATHODE-RAY TUBES
Burrows Corson Van Glider, North Wales, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 22, 1950, Serial No. 157,451
4 Claims. (Cl. 313—84)



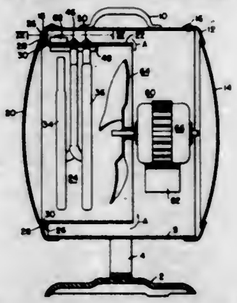
1. A cathode ray beam focusing system for a cathode ray tube comprising an electromagnet having windings and a U-shaped annulus fixedly mounted concentrically with the axis of the neck of said cathode ray tube, said windings being supported on said annulus, said annulus being made of high permeability material, a magnetic slidably mounted unit concentric with the neck of said cathode ray tube positioned on one side of said electromagnetic, said magnetic unit being slidable on the neck of said tube with respect to said electromagnet, said unit having a flanged portion, said unit also comprising a permanent magnet of hollow cylindrical form having a greater diameter than said electromagnet mounted on said flanged portion of said magnetic unit and slidable therewith, means for rigidly attaching said permanent magnet to said slidable adjustable unit, said means being a screw, said permanent magnet being concentric with said winding and providing a variable by-pass for the flux of said winding in accordance with its position with respect to said electromagnet, and means for varying the current flow in said windings wherein said means is a variable resistor.

2,594,100
NAILING MACHINE
Ernest A. Verrinder and Reginald H. Heard, Riverside, Calif., assignors to Food Machinery and Chemical Corporation, San Jose, Calif., a corporation of Delaware
Application October 29, 1949, Serial No. 124,275
13 Claims. (Cl. 1—10)



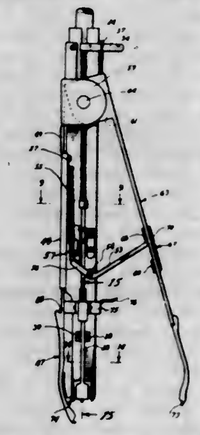
1. In a nailing machine the combination of: a frame including a base and a pair of parallel standards rising upwardly from said base and rigidly secured thereto, each of said standards being formed of a pair of smooth bars of uniform cross section connected at the top with each other and with the bars of the other standards; an anvil structure including a pair of flat plates connected together in spaced relation, opposite ends of said plates sliding on outside faces of the bars of said standards; clamp means for adjustably clamping said end portions of said plates to said standard bars to fix said anvil structure on said standards at a selected level; anvils shiftable longitudinally on said plates for supporting portions of work through which nails are to be driven downwardly; a nail-driver cross-head including a pair of spaced plates, corresponding opposite ends of which are joined together and are vertically slidable on said standards; a chuck-supporting cross-head including a pair of spaced plates opposite ends of which are connected and are guided vertically by the bars of said standards; a power mechanism on said frame for reciprocating said nail-driver cross-head vertically for each nail driving operation; cam devices for connecting corresponding ends of said two cross-heads to effect a coordinate vertical reciprocation of said chuck supporting cross-head with each of the aforesaid reciprocations of said nail driving cross-head; a series of chuck-and-driver units slidably supported on said cross-heads and having clamps for fixing the positions of said units on said cross-heads, said clamps, when relaxed, permitting the placing of said nail-and-chuck units in any desired groupings throughout the length of said cross-heads.

2,594,101
PORTABLE FAN-TYPE AIR HEATER
John F. Volker, Meadville, Pa., assignor to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 7, 1950, Serial No. 172,549
6 Claims. (Cl. 219—39)



1. A portable fan-type air-heater comprising a shell means having a first air inlet, a first air outlet and a first air passage between said air inlet and air outlet, heating means in said first air passage, said shell means having a second air inlet and a second air outlet and a second air passage therebetween, said second air passage being on the outside of said first air passage, said second air outlet merging into said first air passage at a point between said first air inlet and said first air outlet, a fan comprising an axial flow propeller, means supporting said fan inside said housing so that said propeller forces air through said gas-passages in a direction from the air inlets thereof to the air outlets thereof, said shell means comprising an outer shell and an inner shell defining boundaries of said air passages, and thermostat means in said second air passage subject to the heat of said inner shell and the air flow in said second air passage.

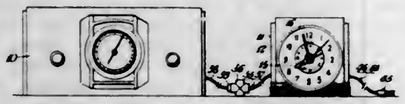
2,594,102
AUTOMATIC INSERTER FOR SUTURING CLIPS
Leonhard Vollmer, New York, N. Y.
Application May 3, 1950, Serial No. 159,693
5 Claims. (Cl. 1—49.1)



1. An automatic inserter for suturing clips comprising tong parts hingedly connected together at one end and having specially formed

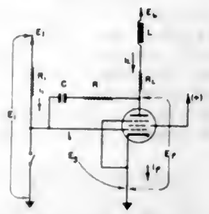
opposite ends adapted to receive the ends of a suturing clip, a magazine slide assembly slidably mounted on one of the tong parts, means acting between the slide assembly and the other of the tong parts and operative by said other tong part to cause the advancement of the slide assembly, said magazine slide assembly being adapted to contain a column of suturing clips, holding means on one of the tong parts for retaining the column of the suturing clips while permitting the advancement of the lowermost clip on the slide assembly to be positioned and hold the clips for engagement by the specially formed ends of the tong parts, and automatic release means including the means carried by the slide assembly and acting against said other tong parts and operative when the slide assembly has advanced to forward position to release the lowermost clip to the specially formed ends of the tong parts, said automatic release means arresting the advance of the slide assembly relative to the other tong part, said tong parts then retaining the clip and being operative with further closing pressure to add pressure upon the clip and serving to bend the clip for the fixing of the same to the skin portions being joined together.

2,594,103
AUTOMATIC ELECTRIC TIME CONTROL
William J. Ward, Philadelphia, Pa.
Application October 29, 1948, Serial No. 57,171
1 Claim. (Cl. 161—1)



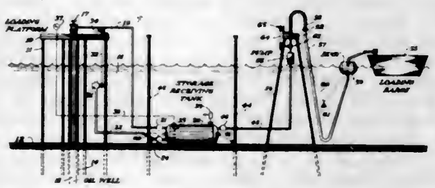
In an automatic time control apparatus comprising an electrically operated clock mechanism including a wheel having a notch in its perimeter and a prime mover for operating said clock mechanism, a double throw switch having two contact points and a spring actuated blade constantly urged towards one of said contact points, an output circuit, two branch circuits connected to said output circuit and each of said branch circuits connected to a separate one of the contact points of the double throw switch, a manually operated single throw switch interposed in each branch circuit, means spring actuated in one direction and connected to the blade of the double throw switch and manually projectable in the other direction to actuate said blade in one direction to move said blade into engagement with one contact point and out of engagement with the other of said contact points for connecting one branch circuit with the main circuit and simultaneously disconnecting the other branch circuit from said main circuit, means having a portion disposed beside the notched wheel to hold the manually operable means in a projected position, and means engaging the perimeter of said notched wheel adapted to drop into the notch when the latter aligns with said last named means and contact the holding means and actuate it to release the manually projectable means and thereby cause operation of the double throw switch for disconnecting the previously connected branch circuit and connecting the other branch circuit with said main circuit, the disconnecting of the connected branch circuit opening the latter if formerly closed by its respective manually operated switch and the connecting of the disconnected branch circuit closing the latter if formerly partially closed by its respective manually operated switch.

2,594,104
LINEAR SWEEP CIRCUITS
Clayton A. Washburn, Westwood, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application December 16, 1943, Serial No. 514,536
23 Claims. (Cl. 250—27)



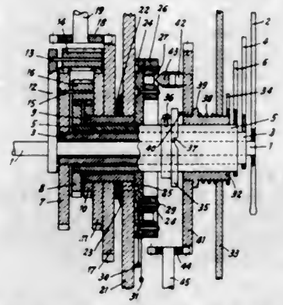
12. Apparatus for generating a linear sweep voltage comprising, an electron tube having at least an anode, a cathode and a control grid, a resistor, means for establishing current flow through said resistor, means coupling said control grid to one end of said resistor, a feedback circuit including a condenser connected between said anode and said control grid, said condenser together with said resistor determining the time constant of said sweep voltage, and means for interrupting current flow through said resistor.

2,594,105
SYSTEM FOR GATHERING AND LOADING OIL FROM UNDERWATER OIL WELLS
Richard G. Watts, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application May 14, 1948, Serial No. 27,084
8 Claims. (Cl. 137—78)



1. The system for gathering and loading oil from an underwater oil well which comprises in combination a well head for said well, a storage tank positioned underwater at a sufficient depth to be unaffected by the moving forces of surface conditions of wind and waves, means for transferring oil from said well head to said storage tank, means associated with said last named means for preventing flow of fluid from said storage tank to said well head, means for permitting water surrounding said storage tank to enter and leave said storage tank, means associated with said last named means for permitting said water to enter and leave said storage tank but preventing flow of oil therethrough from said storage tank, a mooring dolphin, means supported by said mooring dolphin for transferring oil from said storage tank to a loading vessel, and means associated with said last named means for permitting flow of oil from said storage tank to a loading vessel but preventing flow of water therethrough from said storage tank to a loading vessel.

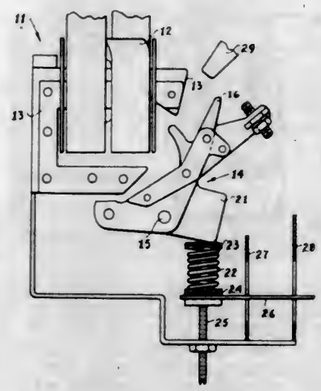
2,594,106
CLOCK SETTING MECHANISM
Max Weber, Geneva, Switzerland
Application October 22, 1947, Serial No. 781,296
In Switzerland September 29, 1945
Section 1, Public Law 690, August 8, 1946
Patent expires September 29, 1965
1 Claim. (Cl. 58—80)



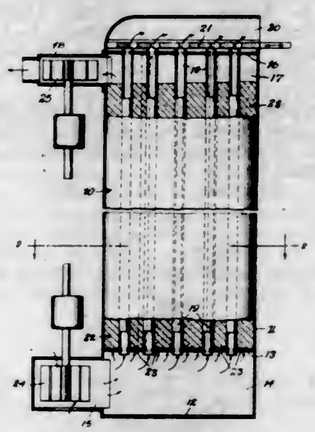
In a clock train, in combination, a second hand shaft, a hollow minute hand shaft coaxially mounted on said second hand shaft, a hollow hour hand shaft coaxially mounted on said minute hand shaft, a bracket fixedly mounted on said second hand shaft, a rotary planetary pinion stud-mounted on said bracket, a spur wheel fixedly mounted on said minute hand shaft and meshing with said planetary pinion, a second rotary planetary pinion stud-mounted on said spur wheel, a second spur wheel fixedly mounted on said hour hand shaft and meshing with said second planetary pinion, a sleeve loosely mounted on said hour hand shaft, a third spur wheel fixedly mounted on said sleeve and meshing with said first planetary pinion, a fourth spur wheel fixedly mounted on said sleeve and meshing with said second planetary pinion, friction means adapted to prevent rotation of said sleeve under normal operative conditions, the number of teeth of said third and fourth spur wheels slightly differing from the number of teeth of said first and second spur wheels, the ratio being such as to obtain the proper reduction between the second, minute, and hour hand shafts, and means for rotating said sleeve against action of said friction means for setting the hand shafts.

2,594,107
QUIET OVERLOAD CIRCUIT BREAKER
Joseph D. Wood, Upper Darby, Pa., assignor to I-T-E Circuit Breaker Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 16, 1948, Serial No. 15,182
2 Claims. (Cl. 175—338)

1. A circuit breaker for alternating currents comprising a frame and an electromagnet mounted on said frame and having a pole face, a pivoted armature having an end movable toward said pole face, means biasing the armature away from said pole face consisting of weight means acting on said armature and tending to bias it so as to maintain said end away from said pole face, said weight means being disposed so as to maintain a substantially uniform biasing force in all operating positions of said armature, said weight means having a mass value such as to maintain said armature from being activated by said electromagnet except at a predetermined maximum peak current, a backstop against which said armature is biased by said weight means, said backstop comprising a spring carried by the frame and disposed to engage the armature and to oppose the biasing effect of said weight means, and means for adjusting the position of said spring relative to said frame for varying the dropped out position of the armature, whereby said circuit breaker may be set, by adjusting said spring position to trip at values ranging from a minimum to said aforementioned maximum, and wherein said spring expands when said armature end is moving towards said pole face to assist in overcoming the biasing effect of said weight means.

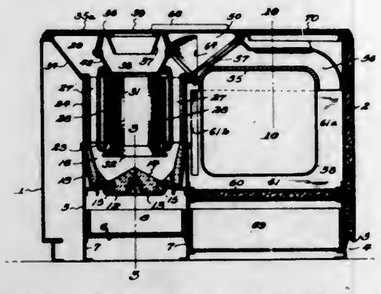


2,594,108
AIR DRIER
Dwight Elivi Woodbridge, Brooklyn, N. Y.
Application February 8, 1950, Serial No. 143,071
2 Claims. (Cl. 183—4.5)



1. An air dryer including a hollow body having a main chamber, an air inlet chamber at one end of the main chamber, said main chamber having header walls and an outlet, a desiccant within said main chamber, one of said header walls having apertures therein whereby atmospheric air may be caused to flow from the inlet chamber to said outlet through the desiccant to be dehydrated, and tubes connected with the header walls extending through the desiccant and communicating with the inlet chamber, for the passage of air from the inlet chamber through said tubes, for the purpose of cooling the dehydrated air.

2,594,109
COAL-BURNING COOKING RANGE
De Witt H. Wyatt, Columbus, Ohio
Application September 17, 1948, Serial No. 49,781
7 Claims. (Cl. 126—10)



2. In a coal-burning cooking range, a main casing structure formed internally to provide in vertically registering order an ash pit, a grate, a fire bowl, a fuel magazine, and a plenum chamber, the plenum chamber being provided with a flue outlet, said magazine having walls provided with open-ended passages for the transmission of heated gases from said fire bowl to said plenum chamber, and with additional passages for the normal delivery of combustion air drawn from the atmosphere to said fire bowl, bowl by-passing valve-controlled means for directing the flow of air from said additional passages into said plenum chamber, whereby to produce flame combustion in said plenum chamber, and a cooking top forming a part of said main casing structure overlying said plenum chamber.

2,594,110
ELECTRICAL MEASURING INSTRUMENT
Douglass A. Young, East Orange, Lawrence J. Lunas, Cedar Grove, and Bernard E. Lenehan, Bloomfield, N. J., assignors to Westinghouse Electric Corporation, East Pittsburgh, Pa., a corporation of Pennsylvania
Original application September 2, 1943, Serial No. 500,896, now Patent No. 2,438,027, dated March 16, 1948. Divided and this application June 26, 1947, Serial No. 757,260
4 Claims. (Cl. 171—95)



1. In an electrical device, a plurality of similar guide elements, each of said guide elements having male and female parts, the male part of one of said guide elements being proportioned for reception in the female part of an adjacent one of said guide elements to prevent rotation of said guide elements with respect to each other about a predetermined axis, the male and female parts of each of said guide elements being spaced eccentrically of and angularly about said axis, whereby each of said guide elements is spaced angularly about said axis with respect to an adjacent one of said guide elements, and a plurality of terminal elements associated with said guide elements, each of said terminal elements and a separate one of the guide elements having interfitting parts eccentric of said axis whereby each of the terminal elements is positioned angularly with respect to said axis by a separate one of said guide elements.

2,594,111
ELECTRICAL APPARATUS
Albert W. Albrecht, McHenry, Ill., assignor to Oak Mfg. Co., Chicago, Ill., a corporation of Illinois
Application December 14, 1949, Serial No. 132,839
1 Claim. (Cl. 200—6)

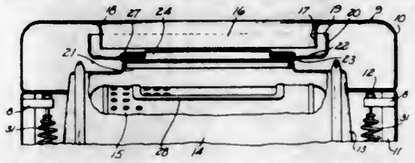


In a turret type high frequency tuner, the combination of a stator contact unit and rotor contact unit, each stator contact unit consisting of two similar opposed clip portions, each clip portions comprising a pair of massive shoulder portions and a solder lug portion, said shoulder and lug portions of the two clip portions being adapted to lie against each other, each clip portion having a pair of spaced fastener portions offset transversely away from the other clip portion, each clip portion having a central contact portion, a pair of cooperating clip portions being mounted in an insulating support having a central aperture for the contact jaws and spaced slots for the fastener portions, said fastener portions extending through the insulating support and being bent toward each other, each contact jaw being shaped so that a pair of cooperating jaws provide a generally hour-glass-shaped region, said rotor contact comprising a body portion having a flat arrow-head-shaped portion as the active contact portion at one end and a soldering lug portion at the other end, said body portion having a number of spines formed therefrom, said body and soldering portion being substantially the same width and said rotor contact being mounted on a rotor insulating support, each rotor contact being insertable in said support lug portion first, said contact portion functioning as a stop for the contact in its travel into the insulating support, said spines being pointed toward the contact portion to prevent withdrawal.

2,594,112
WASHING MACHINE PROVIDED WITH LOADING AND UNLOADING PASSAGEWAY
Oscar M. Anderson, New Britain, Conn., assignor, by mesne assignments, to Crosley Division, Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application April 25, 1947, Serial No. 743,843
3 Claims. (Cl. 68—24)

1. In a laundry machine, a stationary outer casing having a top and sides, a horizontal tub

structure having a longitudinal axis, said tub structure being resiliently mounted within the casing for limited movement relative to the casing in a plane radial to said axis including movement from an upper fluid extracting position to a lower washing position upon the admission of cleaning fluid to the tub, a basket rotatably mounted in said tub, an inwardly turned flange on the top of the casing forming a loading and



unloading opening through the top of the casing, a flange on the tub having a laterally extending portion disposed underneath and spaced from the lower extremity of said casing flange, and a peripheral extension on said horizontal portion telescopically surrounding the casing flange and spaced therefrom whereby said relative movements of the tub structure are permitted, said tub being formed with an opening registering with said casing opening.

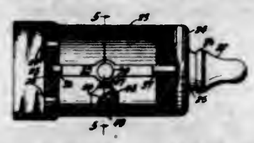
2,594,113
FLUID FLOW SIGHT GLASS
Joseph Askin, Chicago, Ill., assignor, by mesne assignments, to Electrimatic Company, a corporation of Illinois
Application January 21, 1949, Serial No. 71,912
15 Claims. (Cl. 116—117)



1. A sight glass unit, including: a body portion having a main flow passageway therethrough; a sight opening providing a line of view normal to the direction of flow through said main passageway, said opening communicating with said passageway; a transparent window-member closing the outer end of said sight opening and being sealed therein, the flow passageway beneath said window-member being greater in cross sectional area than that of said main passageway on either side thereof; and a highly reflective polished plane surface facing said window-member and parallel thereto but spaced therefrom so that at least a portion of the fluid flow through said passageway passes between said highly reflective surface and said window-member.

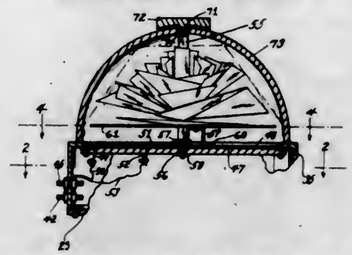
2,594,114
INFANT'S FEEDING DEVICE
Stephen Baracate, Troy, N. Y.
Application July 19, 1950, Serial No. 174,682
8 Claims. (Cl. 215—11)

1. An infant nursing device adapted to be attached to a nursing bottle and to have a nipple attached thereto, comprising a housing, valve means rotatably mounted within said housing, said valve means having an inlet and an outlet adapted to provide communication between said bottle and said nipple, and gravity actuated means cooperating with said valve means to rotate the same around axes that are both longi-



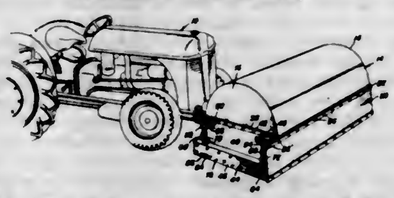
tudinal and transverse of said housing, and to maintain the inlet of said valve submerged in food when the same is carried within said housing.

2,594,115
ROTATABLY ADJUSTABLE ANTENNA
Harold J. Berney, Washington, D. C., assignor to Aberney Corporation, Bethesda, Md., a corporation of Maryland
Application May 22, 1950, Serial No. 163,351
10 Claims. (Cl. 250—33)



1. In an antenna unit, a support, a flat conductive element secured on said support, a metal disc secured on said support adjacent said flat conductive element, said disc being formed with a radial slot, defining an inductance, a signal collecting electrode, means rotatably supporting said electrode adjacent said element for rotation around the axis of said disc, said electrode defining a capacitance with respect to said element, conductive means connecting the element to the disc, a contact member connected to the electrode and slidably engaging said disc, acting as a sliding tap to vary the amount of said inductance connected in parallel with said capacitance responsive to rotation of said electrode, an output terminal connected to said conductive means, the capacitance and the variable inductance being arranged to tune the antenna unit substantially to resonance with an incoming signal, a second output terminal, and means for coupling the second output terminal to the electrode.

2,594,116
COVER FOR ROTARY BRUSH SWEEPERS
Henry O. Beyer and Frank M. Bauman, Morton, Ill.
Application March 8, 1948, Serial No. 13,618
6 Claims. (Cl. 15—83)



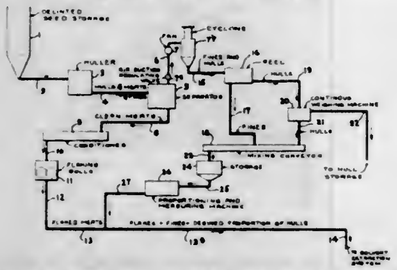
1. A dirt retaining cover for a rotary brush comprising a hood adapted to overlie the upper portion of the brush and having a front edge and

ends, a semi-rigid skirt secured to the front edge of the hood and adapted to depend therefrom in advance of the brush and having one end extended beyond the hood, ground engaging means secured to the lower edge of the skirt, an outwardly bowed flexible shield secured to and depending from one end of the hood, a drag block secured to the lower edge of the shield and abutting at its forward end against the extended end of the skirt to prevent rearward movement of said end of the skirt, resilient means for yieldingly retaining the block in ground engagement.

2,594,117

PREPARED COTTON SEED MATERIAL FOR SOLVENT EXTRACTION AND PROCESSES FOR PREPARATION AND SOLVENT EXTRACTION OF COTTON SEED MATERIALS

Michele Bonotto, Princeton, N. J.
Application July 3, 1948, Serial No. 36,866
7 Claims. (Cl. 260—412.4)



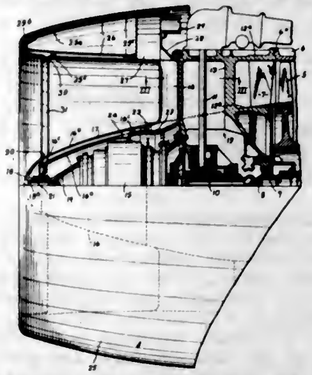
1. A prepared cotton-seed material for solvent extraction comprising a mixture composed of fragmentary portions of cotton-seed and formed of the flaked cotton-seed kernel particles which are substantially free from cotton-seed hulls combined with a predetermined proportion of hard-surfaced unflaked segmental pieces of the hulls of said cotton-seed in cup form and uniformly mixed with said flaked kernel particles, said hard-surfaced unflaked segmental pieces of the hulls in cup form providing in the composite mixture isolated cup-shaped voids between the flaked kernel particles.

2,594,118

HEATED INTAKE COMPONENT FOR GAS TURBINE ENGINES

Winnett Boyd, Bobcaygeon, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation
Application April 7, 1949, Serial No. 86,057
6 Claims. (Cl. 244—134)

1. Heated intake components for a gas turbine engine comprising an annular fairing including a hollow annular fairing shell provided by a cowling wall and an intake wall which converge towards each other and curve and blend into each other at the front, a hollow annular baffle shell disposed within the fairing shell and having baffle walls regularly spaced from the opposed cowling and intake walls of the fairing shell, an annular distribution chamber within the fairing shell and adjacent the baffle shell, the space between the baffle walls and the opposed cowling and intake walls providing a continuous circulation passage communicating with the distribution chamber, a central fairing disposed substantially coaxially with respect to the annular fairing shell and spaced from the intake wall, the central fairing having a double wall comprising a duct wall and another baffle wall spaced from the duct wall, the duct wall and the other baffle wall providing another circulation passage within the double wall of the central fairing, the duct wall of the central fairing defining with the intake wall of the annular fairing an annular intake duct by which air is guided into the engine, a source of hot gases, a conduit for introducing the hot gases into the

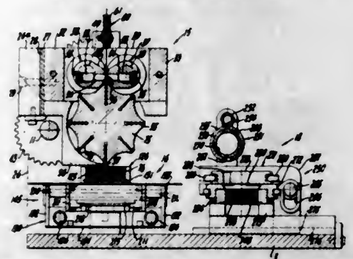


distribution chamber, conduits for conveying the hot gases from the distribution chamber to the said other circulation passage, and continuous annular outlets in the intake wall and in the duct wall for discharging the hot gases into the intake duct.

2,594,119

FROG MAKING MACHINE

Nathan E. Branson, Oakland, Calif., assignor to Edmond C. Matignon, Oakland, Calif.
Application February 20, 1948, Serial No. 9,759
6 Claims. (Cl. 140—71)

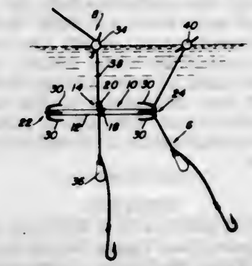


1. A machine for making frogs and the like comprising: a rotatable drive shaft; a pin cutting element comprising a pair of tangentially disposed, rotary pin cutting members adapted to receive a wire and to cut a pin of predetermined length during each revolution of said cutting members; means operatively connecting said drive shaft with said cutting members to rotate the latter continuously; a rotary pin transmitting element adapted to receive pins from said cutting members at a pin-receiving position and to eject the pins at a pin ejecting position; means operatively connecting said transmitting element with said drive shaft to impart intermittent angular movement thereto in synchronism with said cutting members to receive pins therefrom; a pin-receiving die provided with pin-receiving perforations defining a plurality of pin-receiving positions; a support for said die slidable along either of two intersecting lines; and means operatively connected with said drive shaft and operable to slide said die in increments along either of said lines from a first pin-receiving position in sequence to each of the remaining pin-receiving positions in synchronism with the ejection of pins from said pin transmitting element.

2,594,120

FLOAT AND LINE RETRIEVER

Frank J. Busher, Newport, Ky.
Application July 2, 1951, Serial No. 234,847
2 Claims. (Cl. 43—17.2)

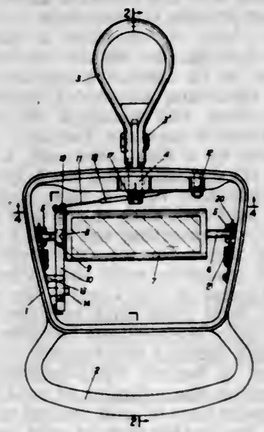


2. A fishing line retriever of the class described comprising a linearly straight rigid rod of a length susceptible of being stored and carried in a conventional tackle box, the opposite ends of said rod being reduced and screw-threaded, and a pair of duplicate line grappling devices, each device embodying an axial socket member screwed on the coacting screw-threaded end of said rod, said socket member being provided with radial pointed hooks constituting grappling tines, and means on the intermediate portion of said rod for detachably connecting the same to a fishing line, said means embodying a length of wire having one end coiled and secured tightly about the rod and having its opposite end coiled to provide the convolutions for detachable frictional association with a casting line.

2,594,121

INDICATING HANDGRIP

Vincenzo Calabrese, Turin, Italy
Application June 7, 1949, Serial No. 97,679
In Italy June 10, 1948
5 Claims. (Cl. 105—354)

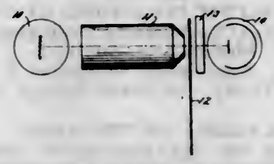


1. In an indicating hand-grip, a rigid body comprising a frame and a strap to be gripped by the hand, said frame having a hole in its upper side, indicating means comprising at least a rotatable drum mounted in said frame, a member for movably attaching said body, a cylindrical rod connected to said attaching member and extending through said hole into said frame said frame being displaceable on said rod, a lever mounted in said frame and connected at an intermediate point with said cylindrical rod, a polygonal block connected with said drum, a fork shaped spring gripping between their branches said block, a tooth projecting from one of said branches and cooperating with said block for its intermittent rotation, said spring being connected with the free end of said lever.

2,594,122

PHOTOCELL-FILTER COMBINATION

Robert J. Cashman, Glenview, Ill., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application May 10, 1949, Serial No. 92,336
3 Claims. (Cl. 250—226)

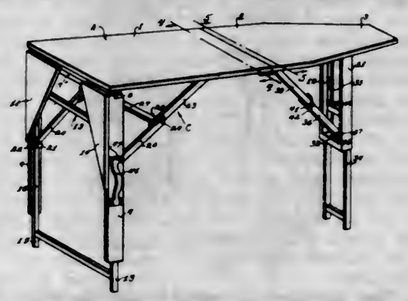


1. In combination, a light source, a colored film having a sound track thereon, means for directing light from the light source to the sound track, a photoelectric cell having a spectral response extending into the infra-red region positioned to receive the radiations from the source which pass through the sound track of the film, and a filter interposed between the light source and the photocell, said filter being substantially impervious to radiations from about 1 micron to about 2.4 microns.

2,594,123

FOLDABLE IRONING BOARD

Roy M. Cater, Washington, D. C., assignor to Ernest L. Hightower, Washington, D. C.
Application August 1, 1946, Serial No. 687,584
7 Claims. (Cl. 38—117)



1. An ironing board construction collapsible from open ironing position into a closed casing or suitcase form, comprising a board member composed of a pair of sections, complemental end members extending transversely of the sections adjacent to contiguous edges of the sections, hinge means joining the end bar members together and connecting the board sections, the said bar members and hinge means enabling the sections to be folded from extended position into spaced parallelism with each other, a leg assembly hingedly connected to each of the board sections for maintaining the said sections in continuous operative sections when the leg assemblies extend at right angles to the said sections, the leg assembly of one of the sections being positioned on the longitudinal center line of the section, the leg assembly of the second section having members disposed laterally of the said section,

each of the leg assemblies being foldable into overlying engagement with respect to their respective board sections, the leg assembly of the second section encasing the centrally disposed leg assembly on the first mentioned section when completely folded, the said leg assembly of the second section including channel members and leg members telescopically adjustable relative to the channel members, the said channel members defining top and bottom members of the closed casing and the board sections forming side members of the closed casing when the construction is completely collapsed.

2,594,124

ELECTROLYTIC POLISHING OF METALS

Percy Allan Charlesworth, Adlington, near Macclesfield, England

No Drawing Application September 2, 1947, Serial No. 771,591. In Great Britain September 12, 1946

1 Claim. (Cl. 204—140.5)

A method for the electrolytic polishing of metals employing an electrolyte consisting essentially of an aqueous solution of sulphuric acid and phosphoric acid, which comprises immersing the article to be polished as the anode in the acid solution having an acid concentration of between 50% and 80% by weight of the solution and a ratio of sulphuric acid to phosphoric acid greater than 5 to 3, and which contains an additive of between 0.3% and 5% by weight of the solution and consisting of aniline.

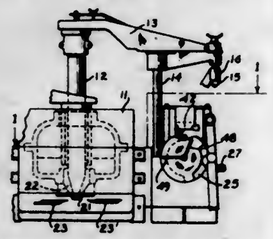
2,594,125

GLASS FEEDER AND METHOD OF FEEDING MOLD CHARGES

James Donald Clark and George J. Montopoli, Corning, N. Y., assignors to Corning Glass Works, Corning, N. Y., a corporation of New York

Application May 18, 1950, Serial No. 162,732

9 Claims. (Cl. 49—55)



1. The method of periodically forming mold charges, which comprises initiating the flow of a stream of molten glass from a supply body after the lapse of the major portion of the time following the formation of the preceding mold charge, increasing the flow of glass from said supply body to form a mold charge in said stream, severing the stream from said supply body immediately preceding and immediately following formation of the mold charge therein, and immediately interrupting the flow of glass from the supply body following formation of the mold charge.

5. In a glass charge feeder for use with a container having a bottom outlet through which molten glass in the container can flow by gravity, a needle arranged over and adapted to periodically close said outlet, apparatus for periodically reciprocating said needle away from and toward said outlet to regulate the issuance of glass therethrough, said reciprocating apparatus including means adapted to maintain said needle in substantially closed position with respect to said outlet for a predetermined period following each reciprocation of said needle, means under whose control the reciprocation of the needle is interrupted and then resumed during movement of the needle away from the outlet, shear blades arranged below the outlet, and mechanism for actuating said blades following interruption of the movement of the needle away from the outlet, and for again actuating said blades at the completion of a reciprocation cycle of the needle.

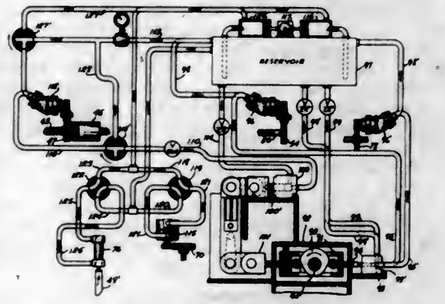
2,594,126

MILL FOR REDUCING METAL STOCK

George Bertram Coe, Upper Montclair, N. J., assignor to Tube Reducing Corporation, Stamford, Conn., a corporation of Delaware

Application November 5, 1949, Serial No. 125,770

11 Claims. (Cl. 80—14)



3. In a mill for reducing tubular metal stock, the combination with a reciprocating carriage, reducing devices mounted on the carriage, a mandrel mounted for turning on its axis, mechanism for feeding the stock along the mandrel to the reducing devices, mechanism for turning both the stock and the mandrel about their axes, means to reciprocate the carriage, a slidable carriage upon which the mandrel is mounted, and latches for locking the slidable carriage to hold the mandrel in its operative position, of a fluid system for operating said stock feeding mechanism, said stock and mandrel turning mechanism, said slidable carriage, and said latches, and characterized by a fluid reservoir, a fluid-operated motor for operating the stock feeding mechanism, a hydraulic ram, a pipe connecting the cylinder of said ram with the intake port of said motor, a pipe connecting the outlet port of said motor with the reservoir, a return pipe connecting the reservoir with the cylinder of said ram and having a check-valve to prevent the backflow of fluid from that cylinder to the reservoir, operative connections between said motor and the stock feeding mechanism, a second hydraulic ram, a second fluid-operated motor, a pipe connecting the cylinder of said second ram with the intake port of said second motor, a pipe connecting the outlet port of said second motor with the reservoir, a return pipe connecting the reservoir with the cylinder of said second ram and having a check-valve to prevent backflow of fluid from that cylinder to the reservoir, operative connections between said second motor and the stock and mandrel turning mechanism, a third fluid-operated motor operatively connected to said slidable carriage, a pump the intake of which is connected to the reservoir, a 4-way valve, a pipe connecting the discharge end of said pump to one side of said 4-way valve, a pipe connecting the opposite side of said 4-way valve with the reservoir, pipes from said 4-way valve to the respective ports of said third motor, fluid-operated cylinders the pistons of which are attached to said latches, a pair of 4-way valves, pipes connecting the discharge end of said pump respectively to one side of each of said pair of 4-way valves, return pipes connecting the opposite side of each of said pair of 4-way valves respectively with the reservoir, pipes from each of said pair of 4-way valves to the respective ends of said fluid-operated cylinders, and means for synchronizing the operation of said rams with each other and with the reciprocating carriage.

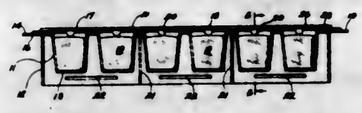
2,594,127

ICE CUBE TRAY

Raymond L. Collier, Lakewood, Ohio

Application May 4, 1951, Serial No. 224,519

2 Claims. (Cl. 62—108.5)



1. An ice cube tray comprising a vessel including top and downwardly directed side walls, spaced cups depending from said top wall defining ice block molds, the depth of said cups being no greater than the height of said side walls, and partitions intermediate certain of said cups attached to the lower face of said top wall and the inner faces of opposed side walls.

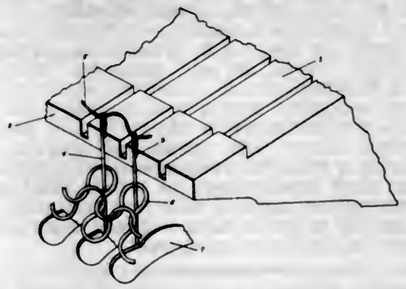
2,594,128

KNITTING MACHINE PRESSER EDGE

James H. Coulliette, Chattanooga, Tenn., assignor to Industrial Research Institute of the University of Chattanooga, Chattanooga, Tenn.

Application March 1, 1951, Serial No. 213,369

6 Claims. (Cl. 66—98)



1. In a knitting machine, an element cooperating with a needle rubbed over a surface thereof, said surface being covered with relatively abrasive-free metal softer than the metal of said needle.

2,594,129

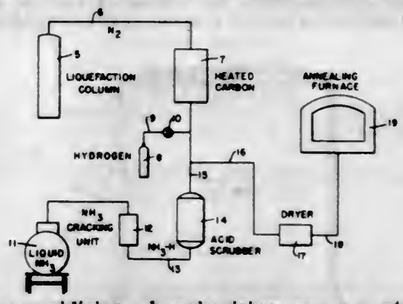
METHOD OF PREPARING SURFACES FOR TINNING

Francis T. Crego, East Orange, N. J., assignor to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York

Application April 10, 1948, Serial No. 20,186

4 Claims. (Cl. 148—16)

1. The method of converting iron carbide at the surface of ferrous tinplate stock to ferrite preparatory to coating said stock with tin which comprises maintaining the surface of the stock having the iron carbide thereat, while at an annealing temperature, in intimate contact with



a non-oxidizing, decarburizing gaseous atmosphere containing from 95% to 99% nitrogen and 0.1% to 5% hydrogen until the iron carbide is reduced to ferrite.

2,594,130

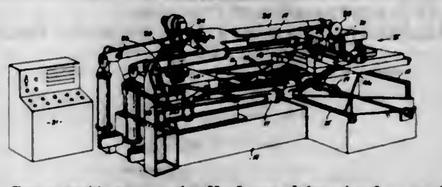
TOOL DRESSER FOR PATTERN CONTROLLED MACHINE TOOLS

John Oliver Creek, Brampton, Ontario, Canada, assignor to A. V. Roe Canada Limited, Malton, Ontario, Canada, a corporation

Application August 21, 1951, Serial No. 242,966

In Great Britain August 31, 1950

8 Claims. (Cl. 51—100)



1. In a pattern controlled machine tool, a pattern table for carrying a pattern, a worktable for carrying a workpiece, a tracer member for engaging a pattern on the pattern table, a tool member for engaging a workpiece on the worktable, means providing proportional three-dimensional movement between the tracer member relative to the pattern table and the tool member relative to the worktable in a predetermined ratio, a tool dresser which is circular in cross-section and is mounted on the worktable for engaging the tool member, and a reference which is circular in cross-section and is mounted on the pattern table with its axis parallel to the axis of the tool dresser for engaging the tracer member, the diameter of any radial section of the reference being proportional to the diameter of the corresponding radial section of the tool dresser in the said predetermined ratio, and the tool dresser and the reference being so positioned on the tables that when the tracer member is brought into engagement with the peripheral surface of the reference the tool member engages a corresponding part of the peripheral surface of the tool dresser.

2,594,131

CREASED SHEET METAL PANEL AND THE METHOD OF FORMING AND APPLYING SUCH PANELS TO FRAME STRUCTURES

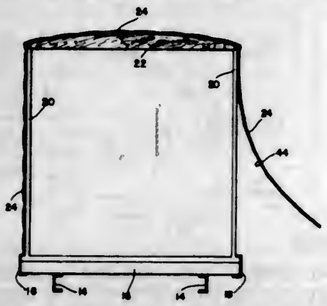
Leland A. Daines, Edmonds, Wash.

Application March 21, 1950, Serial No. 150,868

3 Claims. (Cl. 296—28)

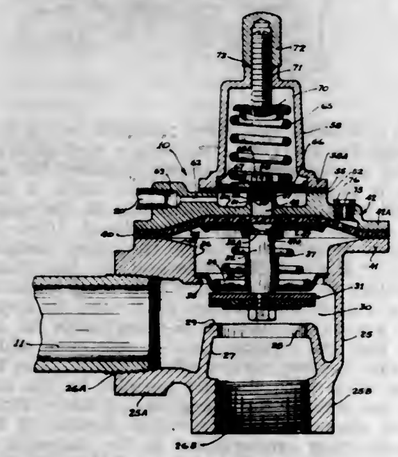
3. A vehicle body, comprising: a skeleton frame structure, and a sheet metal covering panel on

said frame structure, said panel being characterized by having a series of like creases extending between opposite edges of the panel, the crests of said creases being on the inner face of said panel and being tightly pressed against said frame



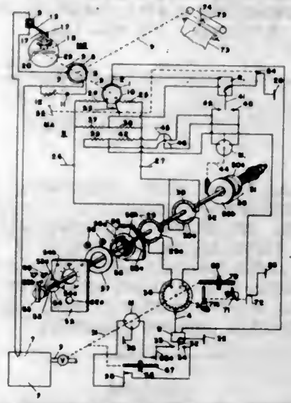
structure by internal strain in said panel, the panel between said creases being outwardly bowed and the outer faces of said outwardly bowed portions between said creases being under tension and the opposite inner faces thereof being under compression.

2,594,132
INTAKE TYPE UNLOADER FOR COMPRESSORS AND THE LIKE
William P. Dalrymple, Rochester, N. Y., assignor to American Brake Shoe Company, Wilmington, Del., a corporation of Delaware
Application November 2, 1945, Serial No. 626,228
7 Claims. (Cl. 137—153)



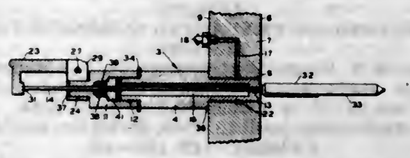
1. In an intake type unloader for compressors and the like, a valve body having a passage therethrough and affording a main valve opening defined in said passage, a valve member for cooperation with said main valve opening and mounted for movement between open and closed positions relative to said main valve opening, a main diaphragm operatively associated with said valve member for imparting valve closing movement thereto, means cooperating with said main diaphragm to afford a main pressure chamber having a pressure inlet opening, a pilot valve for said inlet opening, a control diaphragm operatively associated with said pilot valve for operating the same, means yieldingly urging said pilot valve toward closed position, means cooperating with said control diaphragm to afford a control chamber that communicates with said main chamber when said pilot valve is open, means for supplying control pressure to said control chamber, means affording a vent opening for venting pressure fluid from said main chamber, a vent valve for said vent opening, and means operable by said control diaphragm to open said vent valve when said pilot valve is closed, and close said vent valve when said pilot valve is open.

2,594,133
CONTROL SYSTEM WITH DROOP CORRECTION
Elwood T. Davis, Brookline, and William Clark, Jr., Philadelphia, Pa., assignors to Leeds and Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 28, 1949, Serial No. 73,384
16 Claims. (Cl. 318—28)



1. In a control system the combination of a rotatable shaft, a driving motor, means including the control system for controlling the direction of rotation of said motor, a frictional device interconnecting said motor and said shaft for limiting the torque which may be applied to the shaft by said motor, circuit-adjusting means secured to said shaft, manual adjusting means for said shaft for moving it against the frictional opposition offered by said frictional device, a second frictional device supported adjacent said manual adjusting means and including an adjustable element movable relative to said manual adjusting means and engageable thereby for producing a frictional resistance against rotation of said shaft greater than the torque which may be transmitted through said first frictional device thereby to arrest motion of said shaft at any selected angular position thereof.

2,594,134
STUFFING BOX ASSEMBLY
Walter F. Delametter, Phillips, Tex., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 16, 1949, Serial No. 93,518
7 Claims. (Cl. 308—36.3)



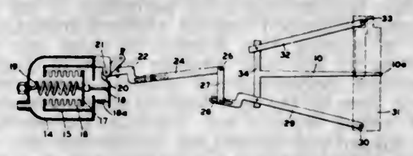
1. A high-pressure fluid-tight stuffing box assembly for packing a rotating shaft in a meter,

which shaft extends through a wall in the meter from the high pressure side of said wall to the atmospheric pressure side of said wall, comprising in combination a pipe member threaded to and secured to said wall in fluid-tight relation, a stuffing box threaded to and secured to said member in fluid-tight relation on the atmospheric pressure side of said wall, a thrust bearing for the end of said shaft secured to said stuffing box, said member having a first bore fitting said shaft said first bore being enlarged to form a second bore adjacent said stuffing box, said stuffing box having a third bore fitting said shaft, said third bore being enlarged to form a fourth bore adjacent said member, means including a conduit communicating with said second bore for supplying grease to said assembly, a plurality of graphite washers fitting said shaft and disposed in said fourth bore, and a gland threaded into and secured in said fourth bore for retaining said washers in said fourth bore.

2,594,135
INDUCING GROWTH OF DORMANT WOODY PLANTS
Frank Earl Denny, Yonkers, N. Y., assignor to Boyce Thompson Institute for Plant Research, Inc., a corporation of New York
No Drawing. Application June 28, 1946, Serial No. 680,093
3 Claims. (Cl. 71—2.1)

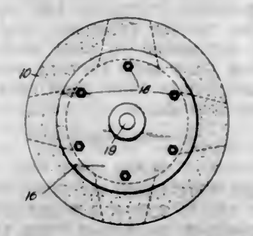
1. The method of inducing the growth of dormant woody plants which had been exposed while dormant to a temperature less than 12° C. for at least 10 days which comprises applying to the plants while dormant a high molecular weight sodium alkyl sulfate in an amount sufficient to induce growth.

2,594,136
PRESSURE OPERATED INDICATING APPARATUS
Samuel S. Di Maggio, Jr., Rochester, N. Y., assignor to Taylor Instrument Companies, Rochester, N. Y., a corporation of New York
Application August 8, 1950, Serial No. 178,278
6 Claims. (Cl. 73—410)



1. In a system for measuring a variable condition, means for sensing the changing values of the condition, mechanism proportionally actuated in response to the values sensed by said sensing means, a straight graduated scale plate fixedly mounted, a fixed pivot mounted adjacent each end of the scale plate at one side thereof, an exhibiting index arm having its front end cooperating with the graduations on said scale plate to exhibit sensed values of the variable, means including a linkage for moving the front end of the exhibiting index in a substantially rectilinear path along said scale plate, said linkage comprising a first link and a second link extending rearwardly from said scale plate, one end of the first link being pivoted on one of the fixed pivots and one end of the second link being pivoted on the other fixed pivot, a rigid member pivotally connecting the remaining ends of said first and second links, the rear end of said index arm being carried on said member at a point equidistant from its pivotal connections, and means including said mechanism for swinging one of said links about its fixed pivot.

2,594,137
GRINDING WHEEL
Albert J. Doermann, Chicago, Ill., assignor to Titan Abrasives Company, a corporation of Illinois
Application September 12, 1949, Serial No. 115,266
9 Claims. (Cl. 51—207)



1. A grinding wheel, comprising: a plurality of adjacent grinding disc-like elements each having a plurality of tongues on one side each engaging a groove on the adjacent side of the next element, one of the cooperating side edges of a tongue and groove being inclined toward an adjacent other of said cooperating side edges from a point nearer the center of the wheel toward the periphery thereof to aid in restraining a broken section of either element that includes at least part of at least one of a tongue and a groove from being thrown outwardly by centrifugal force when said wheel is rotated.

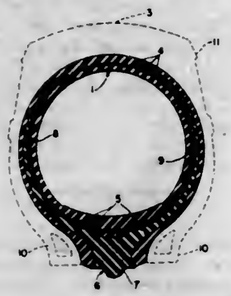
2,594,138
ELECTRONIC INDICATOR
David L. Elam, Roselle, Ill., assignor to Electro Products Laboratories, Inc., Chicago, Ill., a corporation of Illinois
Application November 1, 1946, Serial No. 707,130
3 Claims. (Cl. 250—27)



1. Pick-up means of the character described for translating a mechanical variation into an electrical variation, including: a circuit comprising a first impedance means and a second impedance means in series, said second impedance means being variable as a function of said mechanical variation; means coupled to said circuit for energizing said circuit with an alternating carrier voltage wave; means connected to said circuit for eliminating at least a por-

tion of said carrier wave, such means comprising at least one rectifying tube; means connected to said eliminating means for ultizing the varying potential across one of said impedance means occasioned by the variation of said second impedance means, said last mentioned means comprising means selectively operable for removing the carrier component of the varying potential while retaining said varying potential substantially unaltered; switching means movable between two positions, said switching means in one position providing the varying potential together with its carrier component, and in the other position providing the varying potential with the carrier removed; and compensating means connected to said switching means for providing that said varying potentials have the same amplitude when said switching means are in either position.

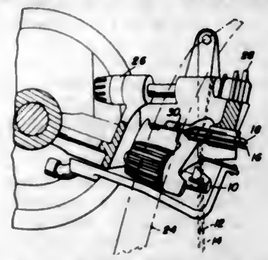
2,594,139
AIR BAG OR THE LIKE HAVING FREQUENCY INSULATOR THEREIN
Robert S. Enabnit, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application March 17, 1949, Serial No. 81,913
4 Claims. (Cl. 18—45)



4. An airbag for use in the high frequency vulcanization of a pneumatic tire and including a toric tubular rubber body having inner and outer wall portions constructed from rubber having no more than medium impedance and about a medium power factor, a radio frequency insulation insert of rubber having extremely high impedance and low power factor and having a Y-shape in cross section embedded in the air bag body between the inner and outer wall portions, the arms of the Y terminating adjacent the shoulder areas of the bag and lying between the inner and outer wall portions of the air bag body, and a radio frequency electrode comprising at least one radially inwardly extending terminal and flexible wire conductors embedded in the wall of the air bag body radially outwardly of the insert in the portions of the airbag in which the insert and the electrode lie in adjacent relation but excluding the radially inwardly extending terminal of the electrode.

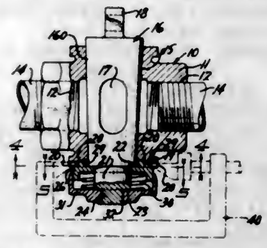
2,594,140
TWINE HOLDER
John W. England, Iowa Falls, Iowa
Application October 15, 1951, Serial No. 251,407
6 Claims. (Cl. 289—14)

1. In a tying machine having a pair of spaced apart twine entraining rotary disks, said disks having peripheral twine receiving notches, said twine holder comprising an arm mounted adjacent the periphery of said disks, a central plate-like finger on said arm, said central finger extending between said disks, a pair of plate-like fingers rigidly secured in spaced parallel rela-



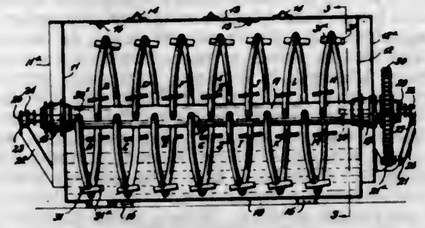
tion to said central finger, said pair of fingers lying adjacent the outer sides of said twine entraining disks.

2,594,141
LOCKING GAS VALVE
Shirley D. Feighner, Wayne County, Mich.
Application October 22, 1948, Serial No. 56,029
2 Claims. (Cl. 251—164)



1. In a valve of the class described, a valve housing including a tapered shut-off element rotatably mounted therein, an axially disposed cylindrical stem extending from the bottom of the said tapered shut-off element formed to serve as a key and reduced in size at its lower end, the bottom of the said valve housing being provided with an annular face having diametrically disposed notches formed therein extending through the outer periphery of the said housing, a cupped locking element including a pair of locking ears formed to enter the said notches in the said housing when in registry therewith reciprocatingly mounted on the cylindrical stem of the said tapered shut-off element and keyed thereto for rotation therewith, a cup shaped cap telescoping neatly over the outside of the said cupped locking element fixed on the lower end of the cylindrical stem of the said shut-off element, and a compression spring disposed around the cylindrical stem of the said shut-off element interposed between the locking element and the cap thereover constantly urging the said locking ears of the said locking element against the bottom of the valve housing or into the notches therein when the shut-off element is rotated to bring the said locking ears of the locking element in registry therewith, the said locking ears of the locking element being so formed as to accommodate like oppositely disposed tapered wedges for moving the locking element axially out of the notches in the bottom of the said valve housing when applied diametrically from both sides of the valve housing, the said locking ears and notches being complementarily formed whereby to admit of moving the locking ears out of the notches in the valve housing responsive only to like oppositely disposed wedges applied simultaneously in the said notches, the clearance between the cupped locking element and the stem of the shut-off element being such as will cause the locking element to bind on the stem of the shut-off element if the wedging of the locking element is accomplished in other than a uniform manner from both sides of the valve simultaneously.

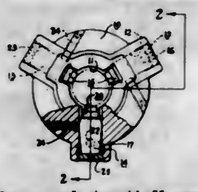
2,594,142
CRYSTALLIZING APPARATUS
Henry H. Feldstein, Cleveland, and Harry R. Kilby, East Cleveland, Ohio, assignors, by mesne assignments, to Henry H. Feldstein, Cleveland, Ohio
Application July 15, 1947, Serial No. 760,948
3 Claims. (Cl. 127—15)



3. A crystallizing apparatus comprising, in combination, a tank having heads and a wall which connects said heads and a portion at least of which wall is cylindrical in form, a shaft extending longitudinally of and within said tank, and means for rotating said shaft, an assembly of symmetrical coil sections arranged in a plurality of series, the coil sections of each series being circumferentially and equidistantly axially spaced from the coil sections of an adjacent series and each coil section of one of said series having its opposite ends secured to axially spaced portions of the shaft and projecting radially and laterally outwardly from its points of connection with said shaft with a portion thereof which is most remote from the shaft in proximity to the cylindrical portion of the wall of said tank, each coil section of said series extending spirally from one end to the other end thereof and each of the coil sections of the other series having its opposite ends connected with the shaft and projecting radially and laterally outwardly from its points of connection with said shaft and each extending spirally from one end to the other end thereof, there being a plurality of passage means extending directly through the shaft and to the opposite ends of each of which the delivery end of a coil section and the receiving end of the next succeeding coil section are respectively connected, and means for supplying heat transfer liquid to the receiving end of the first coil section and thence successively through the passage means and the coil sections connected respectively thereto throughout the said assembly, said passage means in said shaft each comprising an end flanged unitary pipe section extending through a bore formed in said shaft and connected at each end to a flanged end of a coil section, said pipe sections being positioned by and in holes extending through said shaft.

2,594,143
ADJUSTABLE RING AND THREAD GAUGE
Julius Fichter, South Euclid, Ohio
Application August 23, 1947, Serial No. 770,283
5 Claims. (Cl. 33—178)

1. A gauge for testing the trueness of a workpiece, comprising a body having an opening therethrough to receive said workpiece, said body having spaced holes extending from said opening to the outer surface of said gauge, a plurality of gauge elements, one for each hole, each said element comprising a shank portion and an end portion with a contact surface thereon, said end portion projecting from its respective hole into said opening, the shank portion of at least one gauge element having a first portion of a



cross-sectional form substantially complementary to the cross-sectional form of said hole, and having a second portion of cross-sectional form smaller than said hole, and adjustment means to contact said small second portion and tilt said shank in said hole about said complementary first portion as a pivot to align the gauge element relative to the other gauge elements of the gauge.

2,594,144
METHOD OF PREPARATION OF AROMATIC LINEAR POLYESTERS
Paul J. Flory, Ithaca, N. Y., and Frederick S. Leutner, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application January 22, 1949, Serial No. 72,256
10 Claims. (Cl. 260—75)

1. A method of preparing a superpolyester which comprises mixing and heating a dibasic acid chloride selected from the group consisting of terephthaloyl chloride and isophthaloyl chloride with from 85 to 99 percent of an equivalent proportion of tetramethylene glycol at a temperature above the melting point of the reaction mass until a viscous polyester is formed, adding to this polyester, in an amount approximately equivalent to the excess of acid chloride, a glycol selected from the group consisting of aliphatic hydrocarbon, oxahydrocarbon and thiahydrocarbon glycols having more than four atoms in the molecule chain between the hydroxyl groups, and continuing the heating at temperatures above the melting point of the reaction mass until a high molecular weight superpolyester is formed.

2,594,145
REACTION PRODUCTS OF AN N-ACYL POLYIMIDE OF A POLYCARBOXYLIC ACID WITH A POLYMER CONTAINING HYDROXY OR AMINO RADICALS
Paul J. Flory, Ithaca, N. Y., assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application April 29, 1950, Serial No. 159,153
13 Claims. (Cl. 260—75)

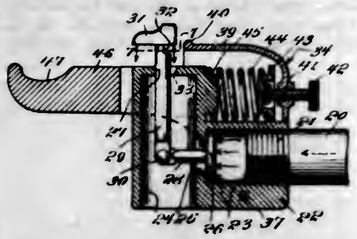
1. A method for increasing the molecular weight of a polymer containing at least two radicals selected from the group consisting of hydroxyl radicals and amino radicals containing at least one reactive hydrogen atom which comprises heating said polymer with an N-acyl polyimide of a polycarboxylic acid in which each of the carbonyl groups of the acyl radical is attached to the nitrogen atom of an imido radical.

2,594,146

DEVICE FOR CONTROLLING THE FILLING OF CONTAINERS

Roy E. Fowler, Watkinsville, Ga.

Application April 20, 1949, Serial No. 88,528
2 Claims. (Cl. 249—58)



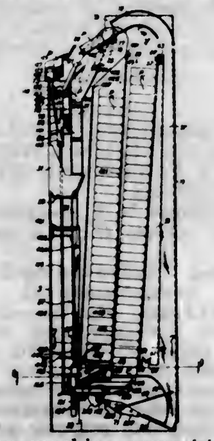
1. In a device for controlling the flow of fluid into a container, a housing provided for the passageway for the egress therethrough of fluid, said housing having a channelway arranged at right angles with respect to said passageway, there being a port connecting said passageway to said channelway, a valve head mounted for movement into and out of bridging relation with respect to said port, a stem having one end secured to said valve head, a rod pivotally connected to the other end of said stem and projecting through said channelway, a head secured to the upper end of said rod, a saddle mounted for movement into and out of engagement with said head, resilient means interposed between said saddle and housing, and an actuating lever projecting from said saddle, said saddle being shaped to define a pair of spaced parallel side walls, said side walls being arranged on opposite sides of said housing, a pivot pin projecting through said side walls and through said housing, said saddle including a top portion provided with an ear adapted to contact said head to thereby cause said valve head to close said port.

2,594,147

MAGAZINE STRUCTURE FOR ARTICLE DISPENSING APPARATUS

Benjamin W. Fry, Ladue, Mo., assignor to National Vendors, Inc., St. Louis, Mo., a corporation of Missouri

Application December 13, 1948, Serial No. 65,057
4 Claims. (Cl. 312—42)



1. A vending machine comprising a cabinet having a front door, a plurality of primary magazines in fixed position side-by-side within the cabinet for holding supplies of articles to be dispensed in upright stacks, each primary magazine having side walls extending from front to rear of the cabinet and a back wall and being open at the front toward the door, each magazine being adapted for loading from the front when the door is open, an open-bottomed auxiliary magazine for at least one of the primary magazines for holding a reserve supply of articles in an upright stack, said auxiliary magazine having a back wall, side walls spaced to fit between the side walls of the primary magazine and means at the front to retain articles therein, said auxiliary magazine being quick-detachably pivoted at its upper end to the upper end of the primary magazine for swinging movement from a forward generally vertical position in front of the primary magazine wherein the back wall of the auxiliary magazine is engageable with the forward ends of articles stacked in the primary magazine to a rearward position wherein it inclines into said primary magazine upon a reduction in height of the stack in the primary magazine below the elevation of the lower end of the auxiliary magazine, said auxiliary magazine being biased rearward for engagement of its back wall with articles stacked in the primary magazine and also to swing to said rearward position, means fixed in position above the upper end of the primary magazine and obstructing access thereto, said auxiliary magazine hanging downward in front of and obstructing access to the primary magazine and being readily detachable from the primary magazine to obtain access thereto when the cabinet door is open by raising the auxiliary magazine, tilting it forward and lifting it out, in consequence of which any and all packages left in the auxiliary magazine drop into the primary magazine, and stack-supporting means extending forward from the primary magazine for supporting a stack of articles in the auxiliary magazine when the latter is in its said forward position.

2,594,148

VEHICLE COMPASS

Auguste G. Galbois, Hollywood, Calif., assignor of fifty per cent to Mariette Belanger, Hollywood, Calif.

Application May 10, 1950, Serial No. 161,092
3 Claims. (Cl. 33—222)



2. A compass assembly comprising a tray and mounting means therefor, a magnetic compass having a case removably mounted in said tray, a resilient needle support member and a cam adjustably mounted on said case and manually shiftable to more said support member into needle clamping position, a portion of said tray comprising a guard for the cam to prevent its being inadvertently shifted, said needle support including an upright axis pin, a second resilient needle support member having an aperture engaged by said pin and vertically spaced above the first mentioned needle support member to accommodate a needle on said pin, said needle support members clamping the needle between them when said cam is in one position, and said needle support members being terminally secured to said case.

2,594,149

SULFUR RECOVERY

Bernard W. Gamson, Chicago, Ill., assignor to Great Lakes Carbon Corporation, Morton Grove, Ill., a corporation of Delaware

Application March 5, 1948, Serial No. 13,179
3 Claims. (Cl. 23—225)



1. A process for producing elemental sulfur by the non-catalytic combustion of hydrogen sulfide, which comprises forming a mixture of hydrogen sulfide and an oxygen-containing gas having about the stoichiometrical amount of oxygen for the reaction

$$2H_2S+O_2 \rightarrow 2H_2O+2S$$

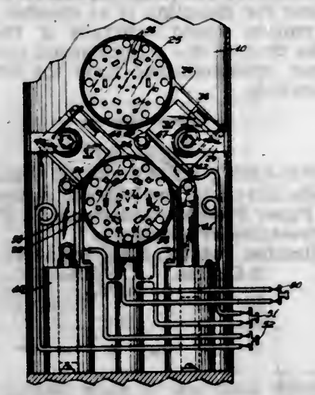
burning said hydrogen sulfide at a temperature above 2400° F., cooling the combustion gases to a temperature below about 900° F. at a rate above 200° F. per second, and recovering sulfur in excess of 75% of the stoichiometrical yield.

2,594,150

MOVABLE LENS MECHANISM FOR SIGNAL LAMPS

John A. Gearon and Edward Gearon, Chicago, Ill.

Application November 4, 1949, Serial No. 125,542
9 Claims. (Cl. 177—329)



1. A signal lamp comprising a vertical housing, a light bulb in the same, a plain lens in one side wall of the housing and in the direct path of light from said bulb, a series of horizontally pivoted and vertically disposed vari-colored lenses in the housing and alternately vertically movable into the space between the bulb and said plain lens to positions in said path of light.

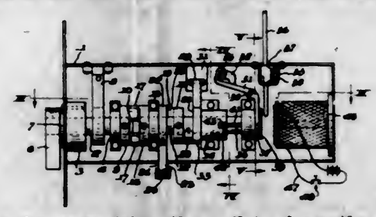
2,594,151

ELECTRICALLY CONTROLLED LOCK FOR AUTOMOBILE DOORS

Joseph Gluske, Johnstown, Pa.

Application June 14, 1951, Serial No. 231,573
6 Claims. (Cl. 70—283)

4. An automobile door lock comprising a latch shaft and an operating shaft, bearings rotatably supporting the shafts, a latch on the outer end of the latch shaft, a spring connected to the latch shaft for rotating it to swing the latch into door latching position, manually operable means for turning the operating shaft, means operably connecting the two shafts so that when the operating shaft is turned it will turn the latch shaft to swing said latch out of door latching position, a movable locking member connected to the operating shaft for rotation therewith and movement lengthwise thereof, stationary locking means, a spring normally holding the locking member in engagement with said locking means to hold the operating shaft against rotation, an armature connected to the locking member, a solenoid coil spaced from the armature, manually controlled



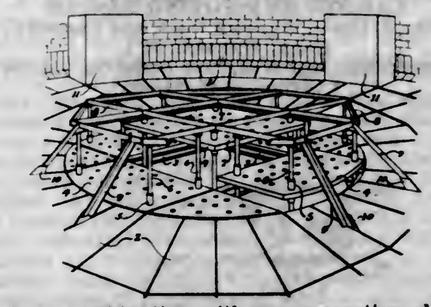
means for energizing the coil to draw the armature toward it and thus withdraw the locking member from said locking means to permit the operating shaft to be turned by said manually operable means, and a manually operable lever mounted beside the space between the armature and coil and adapted to be swung between the armature and operating shaft after the armature has been drawn toward the coil, whereby to prevent said locking member from returning to engagement with said locking means when the coil is de-energized.

2,594,152

PRESSURE-RELIEF APPARATUS

Lester M. Goldsmith, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application December 14, 1946, Serial No. 716,411
6 Claims. (Cl. 23—288)



1. In combination with a regenerating chamber having a multi-apertured grid extending substantially horizontally over the cross-section thereof and beam members extending inwardly of said chamber beneath said grid and rigidly supporting said grid, means for relieving pressure beneath said grid comprising an opening centrally of said rigidly supported grid, a multi-apertured plate covering said opening and vertically movable with respect thereto, and means for controlling the vertical motion of said plate.

2,594,153

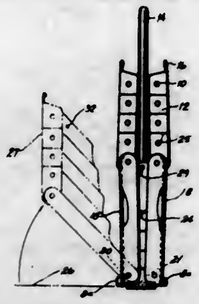
FOLDING BASKET

Leo Greffe, Windsor, Ontario, Canada

Application May 6, 1950, Serial No. 160,559
In Canada August 20, 1949
1 Claim. (Cl. 220—6)

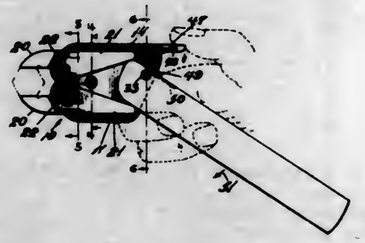
In a rectangular basket, the combination with angular corner brackets and a V-shaped handle

having flattened extensions secured thereto and extending to the bottom of said basket, a series of overlapping slats forming the side members thereof and pivotly secured to said brackets at one end and to said extensions at their other end, said extensions being bent inwardly at right angles forming horizontal flanges, notches cut in the ends of said slats made to abut against the corner brackets and said extensions when the



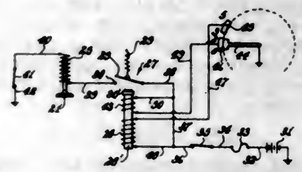
basket is open, end panel members secured to said brackets, the bottom of the basket being made of two plates each being made to abut against each other at their inner end and bent upwards at their outer end forming a curved flange resting against the inner face of the said end panel members, a reinforcing member across the bottom of the basket and secured to said horizontal flanges and against which said bottom members rest when the basket is open.

2,594,154
WRENCH HAVING PIVOTABLE JAWS CAMMED BY PIVOTING HANDLE
John J. Greer, Warwick Neck, and Samuel C. Greer, Warwick, R. I.
Application March 22, 1950, Serial No. 151,094
7 Claims. (Cl. 81—91)



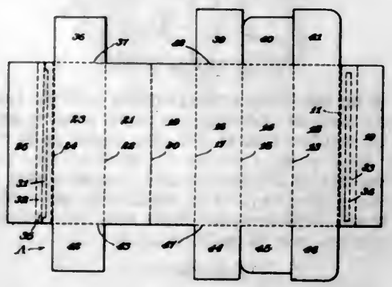
1. A hand tool comprising a body, a pair of work-engaging jaws mounted intermediate their ends on spaced pivots on said body for movement relative to one another and to said body, a handle mounted near its inner end on a pivot on said body for movement relative to said body and to said jaws, the inner end of said handle having cam surfaces thereon engageable with inner end extremities of said jaws for moving the same to and from work-engaging position; and said handle being pivoted to said body at such a location that a straight line, connecting said end extremities of said jaws, would pass between, and in spaced relation to, said handle pivot and a line connecting said jaw pivots, said handle pivot also being spaced from the longitudinal axes of said body and said handle.

2,594,155
BRAKE-HOLDER CONTROL MECHANISM
Glen A. Guernsey, West Springfield, and Kenneth A. Harmon, Longmeadow, Mass., assignors to Wico Electric Company, West Springfield, Mass., a corporation of Massachusetts
Application February 23, 1950, Serial No. 145,692
13 Claims. (Cl. 188—152)



1. Brake control mechanism for wheeled vehicles, comprising, a brake-holder for maintaining the brakes in applied condition after they have been applied, means for automatically actuating the brake-holder including a timing means operable in a predetermined time after its action is initiated to render the brake-holder operative, and first and second speed-responsive controls including an actuating member adapted for connection to and to be actuated by the propeller shaft of the vehicle for respectively starting the timing means at one relatively-low predetermined speed and for disabling it at another and lower predetermined speed, whereby if the decrease from the first to the second speed occurs in less than said predetermined time the brake-holder is inoperative.

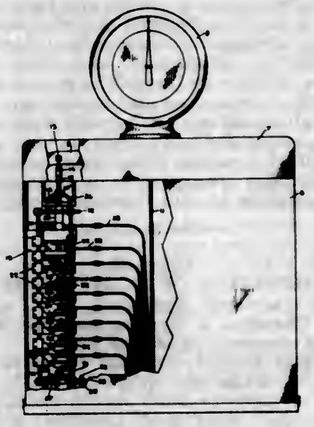
2,594,156
ONE-PIECE REINFORCED CARTON
Reynolds Guyer, St. Paul, Minn., assignor to Waldorf Paper Products Company, St. Paul, Minn., a corporation of Minnesota
Application July 12, 1946, Serial No. 683,111
2 Claims. (Cl. 229—37)



1. A carton comprising two foldably connected sections, one section including a bottom panel and a rear wall panel, and the other section including a top panel and a front wall panel, end flaps at each end of said panels, the end flaps at each end of the bottom wall panel being arranged in overlapping surface contact with the corresponding end flaps of the rear wall panel, the end flaps of said top panel being arranged in overlapping surface contact with the corresponding end flaps of the front wall panel, means securing the overlapping end flaps of each section together

to hold the bottom panel and rear wall panel in substantially right angular relationship and to hold said top panel and said front wall panel in substantially right angular relationship, and a free panel hingedly connected to the forward edge of said bottom panel and foldable from vertical position to horizontal position in substantially the plane of the bottom panel, a fold line connecting the upper edge of said rear wall panel and the rear edge of said top panel to hingedly connect said sections, the two sections being foldable from a closed position in which the overlapping end flaps of the bottom panel and rear wall panel lie inwardly of the end flaps connecting the top panel and the front wall panel, and said free panel lies inwardly of the front wall panel to an open position in which the end flaps of one section do not overlap the end flaps of the other section and in which the free panel is folded substantially into the plane of the bottom panel.

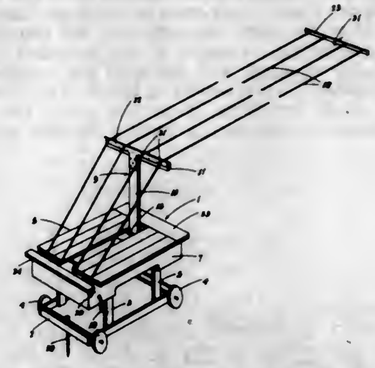
2,594,157
WEIGHING SCALE
Harlan A. Hadley, Burlington, Vt., assignor to H. A. Hadley Associates, Inc., Burlington, Vt., a corporation of Vermont
Application March 9, 1949, Serial No. 80,502
20 Claims. (Cl. 265—48)



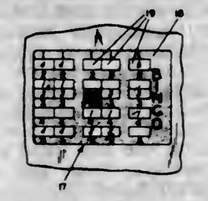
1. In a weighing scale of the class described, the combination with the load counterbalancing elements of said weighing scale, of a manipulative load counterbalancing means including a unit weight for increasing the chart capacity of said weighing scale, said means comprising a unit weight holder operatively connected to said load counterbalancing elements of said weighing scale, means for supporting said unit weight out of contact with said holder, and fluid operated means for moving said unit weight supporting means so as to cause said unit weight to be deposited on said holder.

2,594,158
COMBINATION OUTDOOR TABLE AND CLOTHESLINE
Elwood S. Hannameyer, Aptos, Calif.
Application May 24, 1950, Serial No. 163,932
6 Claims. (Cl. 211—119.01)

1. A combination outdoor table and clothesline, comprising a table including a top, a portion of said top being mounted for erection as a mast, a drum mounted in the table, and a clothesline on the drum adapted to unwind therefrom, extend to the mast, and thence span to a remote anchor point.



2,594,159
ROTATING DISK AUTOMATIC LOTTO GAME
Wesley A. Hanf, Austin, Minn.
Application April 23, 1947, Serial No. 743,397
2 Claims. (Cl. 273—143)

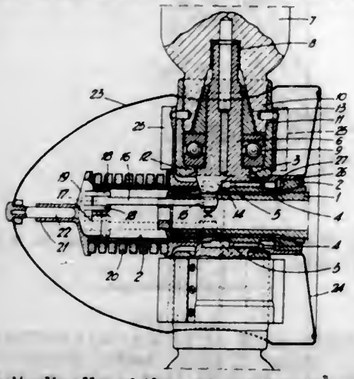


1. A game apparatus for use with a chance controlled operating mechainsm, whereby the mechanism can be used for playing the game of Lotto which includes a plurality of rotary elements at least some of which have different numerals disposed in pairs in rows about their edges, a shield about said rotary elements, said shield having a plurality of windows therein, said windows being arranged in vertical rows aligned with the rows of numerals on said rotary elements, said windows also being arranged in horizontal rows of a number corresponding to the quantity of different numerical denominations on said movable elements, all of the windows of each row in one direction being identified by a common numeral corresponding to a numeral in each of said rows on said movable elements and different from the numerals identifying all the windows in a row of each of the other rows of windows.

2,594,160
VARIABLE PITCH PROPELLER WITH AN AXIALLY MOVABLE HUB
Oscar Hansson, Trollhattan, Sweden
Application July 3, 1947, Serial No. 758,964
In Sweden May 17, 1946
2 Claims. (Cl. 170—160.49)

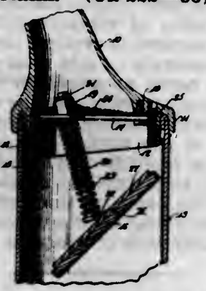
1. An aircraft propeller of the type specified comprising a power driven shaft, a sleeve rigidly mounted on said shaft, a hub on said shaft, slidable bearing means on said sleeve and said hub for allowing the hub to slide axially on the sleeve, interengaging means on said sleeve and hub for locking said sleeve and hub against relative rotation, radially extending shafts rotatably mounted

in said hub, a propeller blade fastened to each of said radial shafts, counterweights secured to said radial shafts in positions removed from the axes of said shafts for tending to turn the shafts and blades about their axes towards an increased angle of pitch under the action of the centrifugal force appearing as result of the rotation of the power driven shaft and the hub for counteracting the axial displacement of the hub on the propeller shaft resulting from the axial air force component, a coil spring having its axis extend-



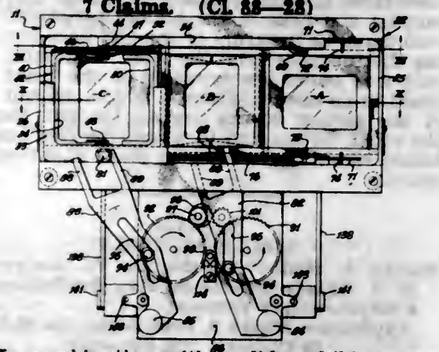
ing longitudinally of the axis of the driven shaft and engaging with its ends the sleeve and the hub, respectively, a lever and linkage mechanism connecting an eccentrically located part of the root end of each radial blade shaft to said sleeve for effecting during the operation of the propeller a balance between the axial air force component, the inertia force components in axial direction as caused by the blades and their counterweights on the one hand and the thrust on the hub resulting from the action of the spring on the other hand.

2,594,161
COMBINED OPENER AND POUR SPOUT
John Kearsley M. Harrison, Gainesville, Va.
Application October 24, 1947, Serial No. 781,973
1 Claim. (Cl. 222—88)



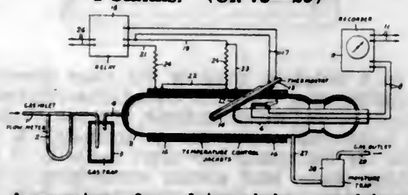
A pour spout assembly having a fluid passageway defined by a spout member and an integral circumferentially continuous inner flange, an outer flange spaced from said inner flange and defining therewith an annular channel for the reception of the end edge of a container, said flanges adapted to grip said end edge in leakproof relation within said channel, said inner flange being of greater length than said outer flange and depending to engage the end disc of a container adjacent its periphery at points 180 degrees apart, said inner flange having a groove therein remote from its free end and facing the passageway, a supporting member extending across said passageway with one of its ends in said groove, means attaching the other end of said member to said spout, a pin mounted in said member and resilient means normally urging said pin to a depending position below the depending portion of said inner flange.

2,594,162
MAGAZINE TYPE SLIDE PROJECTOR
Richard A. Hartley, North Hollywood, Calif.
Application May 17, 1947, Serial No. 748,711
7 Claims. (Cl. 88—28)



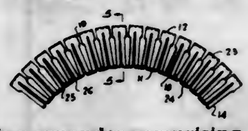
6. In combination with a slide-exhibiting apparatus including a pair of spaced magazines, each adapted to carry slides, and having a slide-exhibiting position defined therebetween, and a slide-transporting shuttle reciprocatable from said slide-exhibiting position to and from each said magazine; shuttle reciprocating means connected to a single drive source and comprising a pair of levers each selectively engageable with said shuttle, and means for selectively moving each said lever through a single, repeatable, complete cycle which includes transport of a slide from a selected magazine to said slide-exhibiting position.

2,594,163
DETERMINATION OF MOISTURE IN GASES
Curtis B. Hayworth, New York, N. Y., assignor to Allied Chemical & Dye Corporation, New York, N. Y., a corporation of New York
Application January 22, 1949, Serial No. 72,130
4 Claims. (Cl. 73—29)



1. Apparatus for determining moisture in gases which comprises a glass housing having a gas inlet and a gas outlet, a heating jacket surrounding the housing near its inlet end adapted to elevate gases entering the housing to a desired temperature, a second heating jacket surrounding the housing for thermostatically maintaining a constant temperature therein, a removable hollow glass tube of smaller diameter than the housing extending into the housing, two spaced platinum wires passing through the interior of the tube out through sealed joints onto the surface of the tube to form a pair of exposed platinum electrodes thereon separated by a distance of between about 0.5 and 1.0 mm., an unsupported film of phosphoric acid suspended between the platinum electrodes which film is exposed to moisture containing gases passing through the housing thereby varying the moisture content of the phosphoric acid with changes in moisture content of the gases passing therethrough, and electrical measuring means connected to the platinum wires in the tube for determining the electrical conductivity of the film of phosphoric acid as an index of the moisture content in the gas.

2,594,164
EXPANDER DEVICE
Aldrich R. Hedberg, Cleveland, Ohio, assignor by direct and mesne assignments, of one-half to Melvin E. Lorentz
Application November 29, 1946, Serial No. 713,151
6 Claims. (Cl. 267—1)



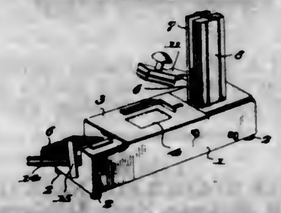
1. A packing expander comprising, a universally flexible strip of spring metal resistant to flexing deformation, said expander having a cross-sectional configuration including a foundation portion with an anchor leg, said foundation portion having a width greater than the length of said anchor leg and lying in a predetermined plane, and a pressure-exerting wall leg portion, said pressure-exerting wall consisting of a series of separate sections formed from a solid strip by division cuts with no material removed between the sections and which lie together when the strip is extended in a straight line to form a wall with substantially no space between the sections, said anchor leg and pressure-exerting wall extending from said foundation portion in diverging paths, the division cuts between the sections constituting a first series of cleavages extending transversely of said expander, a second series of cleavages in the form of slots extending across the anchor leg and foundation portion, said first and second series of cleavages being longitudinally staggered to retain said expander as a one-piece structure.

2,594,165
SEMIHARD RUBBER COMPOSITION AND METHOD OF MAKING SAME
John R. Helms, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application June 9, 1949, Serial No. 98,167
5 Claims. (Cl. 260—763)

1. A vulcanized composition comprising 100 parts by weight of crude rubber, 20 to 40 parts by weight of easy processing channel black, 50 to 80 parts by weight of semi-reinforcing furnace black, and 1.0 to 1.5 parts by weight of an alkyl mercapto thiazole type accelerator, vulcanized in the presence of from 3 to 7 parts by weight of sulfur.

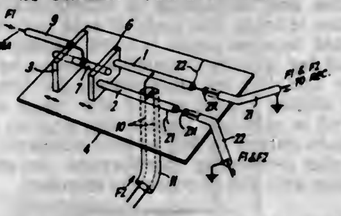
2,594,166
FEEDING AND STACKING MEANS FOR ADDRESS PRINTING PLATES
Hermanus Hennink, Utrecht, Netherlands
Application June 25, 1947, Serial No. 756,948
In the Netherlands September 2, 1940
Section 1, Public Law 690, August 8, 1946
Patent expires September 2, 1960
4 Claims. (Cl. 101—47)

1. In an addressing machine with a printing station in which the address plates pass horizontally and singly through the machine and into a receiving tray arranged under and at right angles to the horizontal path of travel of the individual plates through the machine, said tray being downwardly inclined relative to the path of travel of the used plates, a device for intermittently moving the used plates in the tray a distance approximately equal to the thickness of one plate and including a printing arm inter-



mittently operable and means structurally related to and responsive to the movement of the printing arm to move the plates in the tray and to feed a plate singly from the printing station to and over the receiving tray to strike the upper edge of the last stacked plate in the tray near one edge of the incoming plate, causing said incoming plate to tilt and fall substantially upright into the tray and adjacent the last stacked plate.

2,594,167
ULTRAHIGH-FREQUENCY BRIDGE CIRCUITS
Edward W. Herold, Kingston, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 30, 1948, Serial No. 41,473
23 Claims. (Cl. 178—44)

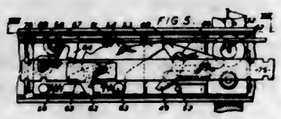


16. Means for reducing the local oscillator radiation from a superheterodyne receiver to which an antenna is coupled, comprising a radio frequency bridge circuit having four effective arms within a metallic enclosure, one of said arms comprising a first coaxial line leading to the input impedance of said receiver, a second arm comprising a second coaxial line coupled to a neutralizing impedance, a third arm being reactive and formed by an extension of the outer conductor of the first coaxial line into said metallic enclosure, and a fourth arm being reactive and formed by an extension of the second coaxial line into the same enclosure, and means for coupling opposite diagonals of said bridge circuit to said antenna and to a source of local oscillations, respectively.

2,594,168
ELECTRICAL STOP MOTION FOR KNITTING MACHINES
William Oscar Heyne, Epsom, England, assignor of one-half to T. J. Brooks (Autes) Limited, Leicester, England, a British company
Application October 26, 1950, Serial No. 192,194
In Great Britain November 8, 1949
13 Claims. (Cl. 66—163)

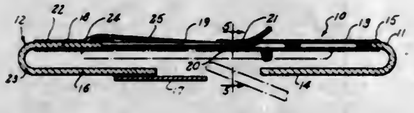
1. For use in operating the electrical stop mo-

tion of a knitting machine, a device comprising a gate, a movable dropper arm cooperating with said gate, an electric switch controlling said stop



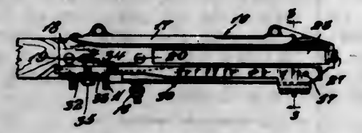
motion and a trip mechanism operable by said dropper arm to actuate said switch and restore the dropper arm into cooperation with said gate.

2,594,169
SLIDE HOLDER FOR NECKTIES
Darold B. Hickman, North Attleboro, Mass.
Application March 9, 1949, Serial No. 80,530
1 Claim. (Cl. 24—49)



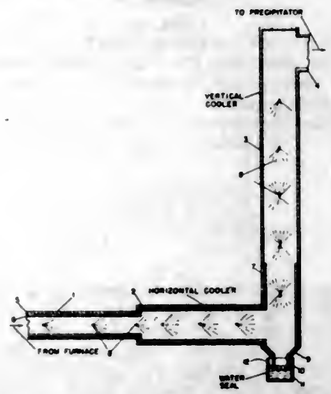
A holder for portions of a necktie comprising a pair of loop members, one loop member having a long leg member and a short leg member in substantially parallel relation, a sleeve fixed to the short leg member, the other of said loop members having a long leg member disposed slidably within said sleeve, the other leg of said last named loop member corresponding in length to that of the long leg member of said first named loop member and extending in substantially parallel relation thereto, the ends of said last named legs adapted to abut upon inward sliding movement of said leg within the sleeve, means between the sleeve and the leg therewithin for limiting outward sliding movement of the leg, a clip device secured to said last named leg, and an ornamental plate affixed to one of said abutting leg members and projecting therebeyond for overlapping relation with the opposed leg member.

2,594,170
BOX WALL FOR LOOMS
Harold Hoeber, deceased, late of South Dartmouth, Mass., by Barbara O. W. Hoeber and William T. Read, executors, Dartmouth, Mass., assignors, by mesne assignments, to Hoosac Mills Corporation, Boston, Mass., a corporation of Massachusetts
Application January 28, 1947, Serial No. 724,725
2 Claims. (Cl. 139—183)



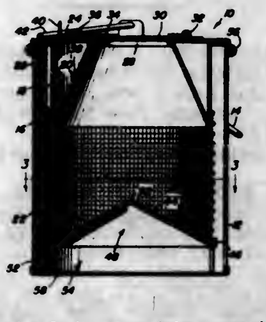
1. A shuttle box for a loom lay having an abutment, said shuttle box comprising a front wall, a back wall formed of a single piece of rigid material and provided with a slot intermediate its upper and lower edges and spaced from one of its ends, a binder in said slot, means for mounting the outer end of said back wall for adjustment toward and from the front wall, said means comprising a threaded member threaded into said slotted wall and engaging said abutment.

2,594,171
PROCESS FOR COOLING HOT GASEOUS SUSPENSIONS OF CARBON BLACK
Maurice R. Howell, Monroe, La., assignor to Columbian Carbon Company, New York, N. Y., a corporation of Delaware
Application January 20, 1950, Serial No. 139,750
3 Claims. (Cl. 23—209.6)



1. In the process of cooling suspensions of carbon black in hot effluent furnace gases by introducing water directly into a flowing stream of the hot suspension, the step of preheating the water to a temperature just short of its vaporizing temperature, and then introducing the preheated water into the suspension in the form of a fog.

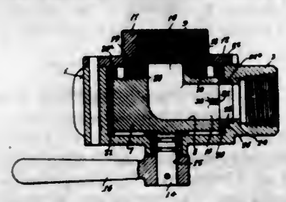
2,594,172
MINNOW BUCKET
Lloyd S. Huffman and Arthur B. Justin, Vernon, Tex., assignors, by direct and mesne assignments, of one-fourth to D. Jones, Vernon, Tex., and three-fourths to said Huffman
Application October 28, 1948, Serial No. 57,062
1 Claim. (Cl. 43—56)



A minnow bucket, comprising a water container, a minnow receptacle removably receivable in said container, said receptacle including a foraminous side wall and an inverted conical bottom defining a re-entrant air pocket, and an annular flange provided at the lower edge of said receptacle and extending below said bottom, said flange defining an enclosure constituting a continuation of said pocket, said bottom being formed at the apex thereof with an opening whereby air trapped in said enclosure and pocket may escape into said receptacle and aerate water therein upon lowering of said receptacle into said container, said conical bottom having an upturned peripheral rim formed integrally therewith and

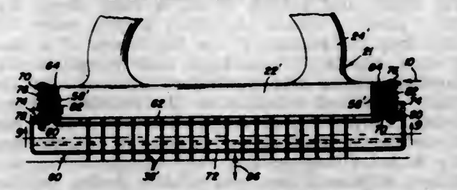
forming an annular V-shaped notch with said conical bottom, and said foraminous side wall having the lowered edge thereof disposed in said notch and secured to said peripheral rim.

2,594,173
VALVE
Hubert M. Jensen, Inglewood, and Harold Karl Bouvier, Los Angeles, Calif., assignors, by mesne assignments, to Century Aircraft Co., Inglewood, Calif., a co-partnership consisting of Gladys Lois Henry and J. Fred Henry, West Los Angeles, Calif., and John M. Henry, Encino, Calif.
Application September 30, 1944, Serial No. 556,526
16 Claims. (Cl. 251—113)



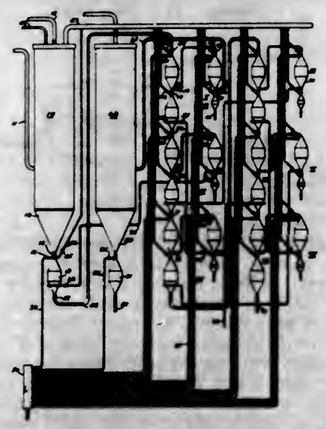
1. In a rotary valve, the combination of a valve body, a rotor mounted within the body, the body having a flow branch and the rotor having a fluid passage communicating with the flow branch, a liner positioned between the body and the rotor, the liner having a cut-out of greater diameter than the diameter of the branch, a deformable packing ring mounted in the cut-out and having a diameter approximately corresponding with the diameter of the cut-out, a rigid sleeve supported in a bore provided within the branch and having an external diameter less than the internal diameter of the packing ring, and the sleeve extending into the branch at one end and extending through the ring at its opposite end.

2,594,174
HAND BRUSH FOR TENDERIZING MEAT
Franklin D. Johnson, Battle Creek, Mich.
Application September 21, 1948, Serial No. 50,347
1 Claim. (Cl. 17—30)



In a hand brush, the combination of an elongated holder having an inverted U-shaped cross-section and including end walls and a transverse partition defining a pair of compartments in the holder, sets of mutually spaced brush members positioned in said compartments and each including a plate-shaped base portion and a plurality of downwardly projecting resilient fingers, sets of resilient spacer blocks provided in said compartments between the base portions of said brush members, a pair of removable keeper rods extending longitudinally of said holder through said partition under said spacer blocks and base portions of said brush members to retain the same in said compartments, substantially L-shaped pressure bars positioned in the compartments between the respective end walls and the adjacent spacer blocks in each set, clamping screws having convex heads disposed at the outside of said end walls, said screws extending through the end walls and engaging said pressure bars to urge the brush members and spacer blocks in said compartments against the opposite sides of said partition, a stationary plate disposed under said holder and having upwardly angulated end portions formed with depressions affording seats for the convex heads of said screws whereby to removably attach said plate to said holder, said plate being provided with openings having said fingers projecting downwardly therethrough, a perforated ejecting plate reciprocable on said fingers below the stationary plate, U-shaped brackets secured to the upwardly angulated end portions of the stationary plate, vertical pins in said brackets, upwardly and inwardly angulated ears provided at the ends of the ejecting plate and slidable on said pins, and compression springs positioned on said pins and bearing downwardly on said ears to urge the ejecting plate downwardly from the stationary plate.

2,594,175
METHOD OF AND APPARATUS FOR WASHING RESIDUES
Edwin G. Judd, Vancouver, Wash.
Application April 22, 1946, Serial No. 663,773
10 Claims. (Cl. 134—10)

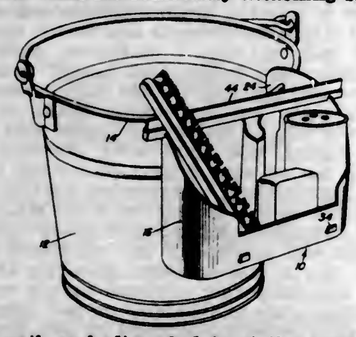


1. The process of washing a finely divided solid material which comprises measuring a quantity of said material, passing said measured quantity of said solid material through a plurality of washing units interconnected as a closed system, contacting said material in each unit with a measured quantity of wash water which has previously been employed in washing a preceding measured quantity of solid material in a succeeding unit, and employing compressed air to transfer by extrusion the solid material and wash water from one unit to another.

2,594,176
ACCESSORY TRAY FOR SCRUB PAILS
John Kaiser, Jr., Cicero, Ill.
Application April 12, 1948, Serial No. 20,437
1 Claim. (Cl. 15—264)

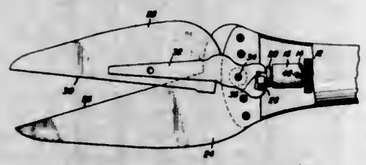
A detachable tray for a scrub pail constructed from a blank of material comprising a bottom wall having front and rear edges and curved side edges, prongs extending from the front edge and further prongs extending from the side edges adjacent the rear edge, curved side walls conforming to the curve of said front edge and said side edges of said bottom wall and having slots

receiving all of said prongs, ears integral with said side walls for removably attaching said tray



to the pail, and aligned slots at the upper edges of said side walls for receiving a squeegee.

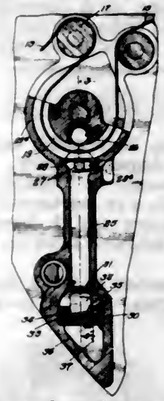
2,594,177
SHEARING, CUTTING, AND TRIMMING DEVICE
William G. Kammlade, Jr., Urbana, Ill., assignor of one-half to William G. Kammlade, Sr., Urbana, Ill.
Application December 23, 1949, Serial No. 134,635
1 Claim. (Cl. 30—249)



A shearing, cutting and trimming device comprising a casing having a power operated drive shaft therein, a fixed cutting blade rigidly secured on said casing, an elongated bearing block mounted in said casing, an operating lever pivotally mounted on said bearing block, a movable cutting blade secured on said operating lever and overlying said fixed cutting blade, an eccentric on said drive shaft, an extension engaging said eccentric, a screw secured in said casing and engaging said bearing block, a bearing element in said casing, a bearing recess in said bearing element, a bearing recess in said operating lever, a pressure regulating lever having ball terminals seated in said recesses, a tensioning step intermediate the ends of said lever, a pressure pin engaging said regulating lever, said regulating lever and said screw coacting to adjust the pressure at the cutting edges of said blade.

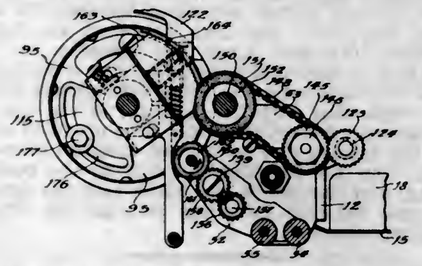
2,594,178
ACTUATING APPARATUS FOR SOUND SYSTEM
Philip L. Karr, Chicago, Ill., assignor to Excel Movie Products, Inc., a corporation of Illinois
Application March 5, 1948, Serial No. 13,245
14 Claims. (Cl. 179—100.3)

1. In a sound system, a source of actuating waves comprising: a wave emitting member; a circuit for connecting said member to a varying current source; and means connecting said member into said circuit, the connections being such that said member is heated solely with said current, said circuit including means for limiting the current flow through said member to a value at which said member is heated to a relatively low radiant temperature at which the hottest



portion of said member glows with a red-orange light.

2,594,179
DUPLICATING APPARATUS
Henry P. Keil, Chicago, Ill., assignor to The Fixture Hardware Corporation, Chicago, Ill., a corporation of Illinois
Application February 5, 1947, Serial No. 726,502
6 Claims. (Cl. 101—132.5)

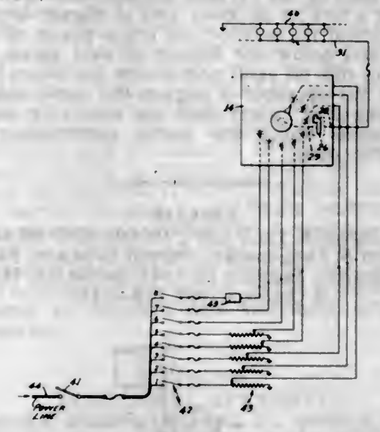


1. A duplicating machine comprising a master sheet drum, a platen roller positioned to press copy sheets against a master sheet on said drum, means to rotate the drum, copy sheet moistening and feeding rollers for advancing copy sheets to the drum and platen roller, a copy sheet tray, sheet feeding means including a feed roller over said tray for engaging the top sheet of a stack of copy sheets on said tray, and means to drive the moistening and feeding rollers and said feed roller in timed relation to the rotation of said drum comprising driving wheels operably connected to the feed roller and one of the moistening and feeding rollers, said wheels being positioned adjacent one end of the drum, resilient rims on said wheels, a driving member mounted on said end of the drum and having a serrated portion for engaging said resilient rims, said serrated portion being movably mounted for limited radial movement with respect to the drum axis and spring means urging said portion toward the outward limit of its movement.

2,594,180
VACCINE AND PROCESS FOR MANUFACTURING THE SAME
Arden H. Killinger and John R. Dick, Fort Dodge, Iowa, assignors to Fort Dodge Laboratories, Inc., Fort Dodge, Iowa, a corporation of Delaware
No Drawing. Application April 26, 1949, Serial No. 89,796
9 Claims. (Cl. 167—80)

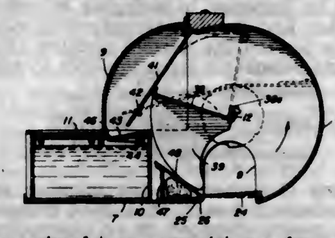
1. In a process of preparing a vaccine for immunizing swine against hog cholera wherein a virulent strain of hog cholera virus is attenuated solely by about 13 to 15 serial rabbit transfers, the improvement comprising propagating hog cholera attenuated virus through swine and securing a hog product containing attenuated virus in concentrated form, by injection of the virus attenuated by rabbit transfers into a hog and, when a temperature rise above normal is obtained, harvesting hog substance containing the virus in relatively high concentration, said hog substance being selected from the group consisting of hog blood, hog spleen and hog testicle, treating said hog substance to remove undesired fractions of the group consisting of fibrin and unduly large particles incapable of passing through a fine screen, discarding said undesired hog fractions and finally isolating a hog cholera vaccine substance of hog origin containing attenuated hog cholera virus in relatively high concentration.

2,594,181
SELECTOR SWITCH
Herbert A. Kliegl, Forest Hills, and Joseph Kliegl, Queens Village, N. Y., assignors to Kliegl Bros. Universal Electric Stage Lighting Co., Inc., New York, N. Y., a corporation of New York
Application July 29, 1950, Serial No. 176,652
14 Claims. (Cl. 171—97)



11. A selector switch including, a shaft, selective switching means mounted thereon, a support in which said shaft is journalled for axial and rotary movement with respect thereto, a plurality of contacts supported in fixed relation to said switching means for electrical cooperation therewith, said switching means being rotatable for selective alignment with any one of said contacts only when disconnected therefrom, and being movable axially to effect electrical connection of the switching means to a selected contact, a terminal, a circuit breaker connected in series between said terminal and said switching means, said circuit breaker having a movable element by which said circuit breaker is opened and closed and which is movable independently of said shaft, linkage means mechanically linking said switching means to said movable element and disposed so as to actuate said movable element and open the circuit breaker in response to and coincident with axial movement of said shaft and said switching means in a direction to effect disconnection from said contact, and stop means on said circuit breaker actuated by said linkage means, said stop means coacting with said movable element to prevent closure of said circuit breaker while said selective switching means is disconnected from said contact.

2,594,182
ANIMAL TRAP
Austin E. Kness, Albia, Iowa
Application April 22, 1948, Serial No. 22,660
4 Claims. (Cl. 43—74)



1. An animal trap comprising a drum-like trap housing having an entrance thereto, a water tank, a trap door for the tank enclosed in the housing, a spring motor actuated shaft journalled in the housing, a fin projecting radially from the shaft for rotation in the housing to lift an animal, catch means holding the shaft stationary, animal actuated trip means for releasing the shaft, and a scraper pivotally supported in the housing with a free edge adapted to rest on the fin during its upward movement to remove the animal from the fin onto the trap door.

2,594,183
MANUFACTURE OF ALKYLLEAD COMPOUNDS WITH CALCIUM-LEAD ALLOYS
Ivar T. Krohn, Royal Oak, and Hymin Shapiro, Detroit, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 29, 1951, Serial No. 229,001
4 Claims. (Cl. 260—437)

1. The process for making hydrocarbon-lead compounds comprising reacting a calcium-lead alloy consisting essentially of an alloy having an atomic ratio of calcium to lead between about 1 to 1 and 1.5 to 1 with an alkylating agent which includes the hydrocarbon radical in question and having a negative radical which reacts with calcium.

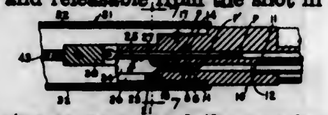
2,594,184
DIHALO-ALKENYL ALKENOATES
Elbert C. Ladd, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application December 30, 1948, Serial No. 68,393
3 Claims. (Cl. 260—486)

1. A 3,3-dihalogeno-2-propenyl ester of a 2-alkenoic acid.

2,594,185
LOADING MECHANISM FOR PNEUMATIC GUNS
Charles F. Lefever, Plymouth, Mich., assignor to Daisy Manufacturing Company, Plymouth, Mich., a corporation of Michigan
Application July 19, 1948, Serial No. 39,397
3 Claims. (Cl. 124—51)

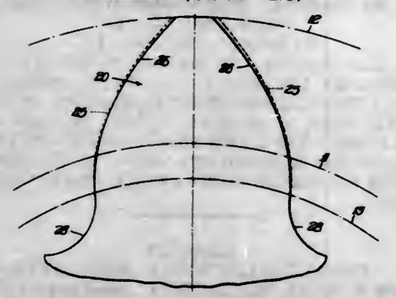
1. A pneumatic gun comprising a frame, a barrel supported on the frame and having provision at the breech end for receiving shot, a shot retaining magazine supported on the frame

in lateral spaced relation to the barrel, a shot receiving pocket connecting the delivery end of the magazine to the breech end of the barrel, a member pivotally supported at one end on the frame and having shot transferring means at the swinging end movable through the pocket from a normal position laterally outwardly beyond the delivery end of the magazine to a position adjacent the breech end of the barrel, means engageable with the next to the last shot in the magazine in response to swinging movement of the member and its shot transferring means in a direction toward the normal position aforesaid thereof and releasable from the shot in response



to swinging movement of the member and its shot transferring means in a shot transferring direction, means disposed in an obstructing relationship to the delivery end of said magazine when said member and its shot transferring means are in the aforesaid normal position, cocking mechanism supported on the gun frame, and operating means for the cocking mechanism operatively connected to said obstructing means and said member so as to operate said member and move said obstructing means away from said magazine prior to movement of said member and its shot transferring means through said pocket from said normal position to the position adjacent the breech end of the barrel.

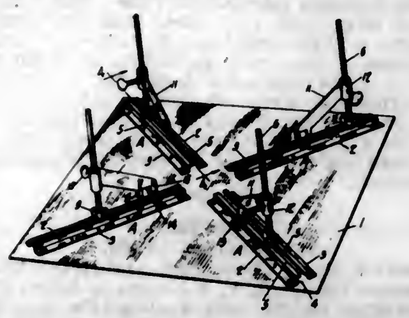
2,594,186
METHOD OF SHAVING GEARS
Robert G. Le Tourneau, Longview, Tex., assignor to R. G. Le Tourneau, Inc., Peoria, Ill., a corporation of California
Application August 16, 1947, Serial No. 769,010
7 Claims. (Cl. 90—1.6)



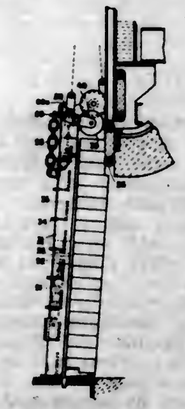
2. The method of forming gear teeth which comprises: hobbing the profile of said teeth to the full depth to produce fillets at the base of the teeth and thereafter shaving the flanks of the teeth by removing greater amounts of material from the outer portions of the tooth flanks than from the inner portions thereof, and progressively decreasing the amount of material removed as shaving progresses inwardly to substantially zero at a point of substantial tangency to said fillets.

2,594,187
PORTABLE HOLDER FOR FLOWER BASKETS OR CONTAINERS
Alton B. Levitt, St. Louis, Mo.
Application December 16, 1949, Serial No. 133,289
2 Claims. (Cl. 248—361)

1. A basket holder comprising a flat base of relatively large area, a series of channel guides rigidly secured to the base and extending radially from the center of the base, vertical posts each extending upwardly from one of the guides, clamping parts at the lower end of each post to engage the associated guide to hold the post in a rigid vertical position, and a basket engaging clamping arm offstanding from and slidable vertically of each post and provided with a basket engaging jaw at its inner end, said channel guides comprising spaced angle plates each having a base portion affixed to the base, a vertical portion and a lateral flange extending from the upper edge of the vertical portion, and each post having a nut on its lower end to engage between the vertical portions of the angle plates of each guide and below the flanges of said plates, and a clamp nut on each post above the above mentioned nut operable to engage the upper sides of the flanges to rigidly hold the post at a desired adjustment along the guide, constituting the clamping parts.

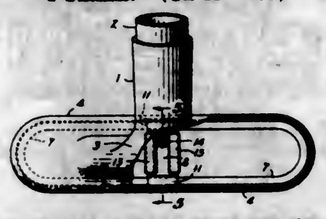


2,594,188
FURNACE TILT LIFT DOOR AND SEAL
Levi S. Longenecker, Mount Lebanon, Pa.
Application January 21, 1949, Serial No. 71,907
8 Claims. (Cl. 110—173)



1. The combination with two vertically movable furnace doors arranged side by side and which when closed are supported in inclined position against the furnace and must be righted before being raised, of a seal for closing the clearance gap between such doors and which comprises a member adapted to lie against the off furnace side of such doors and overlap such gap when the doors are closed, an agent hinged to the upper part of such member and which when such doors are closed is adapted to lie on top of such door in overlapping relation to the gap between the door tops, and means anchoring such member to one such door whereby such member and such agent are carried by such door as the same is raised and lowered.

2,594,189
VACUUM CLEANER NOZZLE BRUSH ATTACHMENT
Charles H. MacFarland, Cleveland, Ohio, assignor to Scott & Fetzer Company, Cleveland, Ohio, a corporation of Ohio
Application April 15, 1947, Serial No. 741,554
4 Claims. (Cl. 15—400)



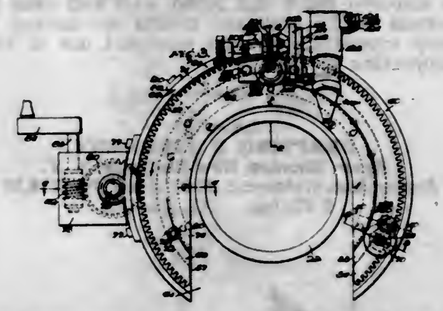
1. A vacuum nozzle which comprises a body having an opening therethrough and formed to provide a nozzle rim and a recess that surround the opening, said rim forming the outer wall of said recess, said body having a projection inwardly of said recess, a brush attachment for said nozzle comprising an annular member and brush elements carried by said member, said annular member being positioned in said recess and said brush elements extending downwardly past said nozzle rim, and a member for detachably connecting said attachment to the nozzle, said member having a central portion and spaced spring clip portions at opposite ends of said central portion formed to yieldingly embrace opposed portions of said annular member and a second pair of spring clip portions extending from the central portion of said member and intermediate said first pair and disposed in opposed relationship to embrace and yieldingly grip said projection.

2,594,190
ELECTRICAL APPARATUS
Edward J. Mastney, Berwyn, Ill., assignor to Oak Mfg. Co., Chicago, Ill., a corporation of Illinois
Application March 9, 1950, Serial No. 148,643
3 Claims. (Cl. 200—11)



1. A switch having an insulating flat stationary portion and an insulating flat portion relatively movable to said stationary portion over a predetermined range, said stationary insulating portion consisting of two flat layers of insulating material, each layer having a series of mounting apertures extending along the range of movement of the movable part, the apertures in said two layers of material registering when said two layers are assembled to form one composite assembly, said two layers of material having free edge portions facing the movable insulating material and shaped to provide a series of tongues with spaces between adjacent tongues, the tongues on each of said two layers being spaced at twice the distance between adjacent mounting apertures so that each layer has a tongue and adjacent space for adjacent mounting apertures, the tongues of one layer being displaced from the tongues of the other layer by the distance between adjacent mounting apertures so that a tongue in one layer registers with a space between tongues in the other layer when the two layers are assembled, contacts carried by the two-layer assembly, means for mounting said contacts to assembly at said mounting apertures, contacts carried at adjacent mounting apertures being disposed on opposite sides of the two-layer assembly, each of such contacts having opposed jaws relatively movable normal to the assembly with one jaw lying in the space between adjacent tongues for the layer upon which said contact lies, blade-like contacts mounted upon said movable insulating part, said blade-like contacts lying in the plane of movement and being adapted to slide between the stationary contact jaws whereby a switch of predetermined dimension may have a large number of contact positions without impairing the insulating qualities of the switch.

2,594,191
PIPE-CUTTING APPARATUS
Frank H. Mathey, Tulsa, Okla.
Application April 21, 1950, Serial No. 157,281
12 Claims. (Cl. 33—21)

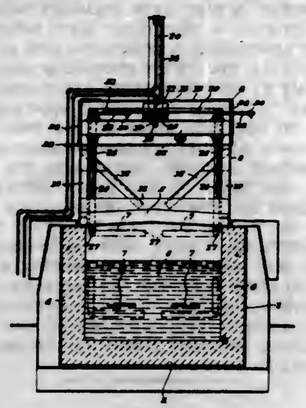


12. Apparatus for cutting pipe comprising a supporting structure to be mounted upon the pipe, curved guide means carried by the supporting structure and partially encircling the pipe, first and second curved rack sections engaging the guide means and being relatively movable longitudinally of the guide means, means to move the first rack section longitudinally of the second rack section until the first and second rack sections form a continuous ring about the pipe, automatic means actuated by the movement of the first rack section to couple the first and second rack sections when they reach their relative positions forming the continuous ring and to uncouple the rack sections when the first rack section is moved in an opposite direction, and torch mounting means carried by one of said rack sections.

2,594,192
STRIP LIFTING DEVICE FOR PICKLING TANKS
Donald A. McArthur, Warren, Ohio, assignor to The Wean Engineering Co., Inc., Warren, Ohio, a corporation of Ohio
Application September 10, 1948, Serial No. 48,706
4 Claims. (Cl. 134—122)

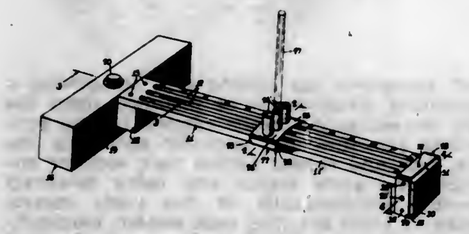
1. In strip treating apparatus, a tank for containing strip treating liquid through which strip

is adapted to be drawn, the tank having a cover over the top thereof, a lifting element extending generally vertically through the tank cover and having a strip supporting portion thereon within the tank, means disposed outside the tank for lowering and raising the lifting element between



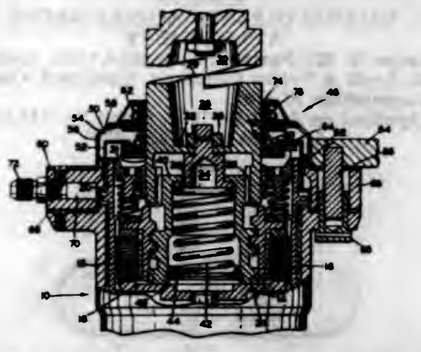
a position in which the strip supporting portion is disposed above the liquid level in the tank and a position in which the strip supporting portion is disposed below the liquid level and near the bottom of the tank and means for moving the strip supporting portion into and out of strip supporting position.

2,594,193
DRAFTING INSTRUMENT
Bram Mendes, New Rochelle, N. Y.
Application October 6, 1947, Serial No. 778,252
2 Claims. (Cl. 33—26)



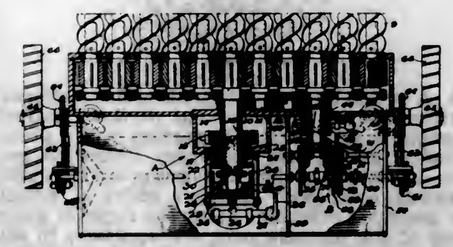
1. A drafting instrument for inscribing lines on a surface, said instrument comprising a beam having a plurality of longitudinal slots therethrough extending nearly the entire length thereof, a pair of blocks respectively affixed on the underside of said beam at each end thereof to space said beam from such surface, a carriage slidably mounted on said beam, said carriage having means for removable support of a plurality of inscribing devices to extend through said longitudinal slots respectively and contact such surface, a substantially U-shaped bracket having a center point thereon, the arms of said bracket straddling one of said blocks and said beam and being pivotally affixed thereto so as to be movable through an arc of 180 degrees whereby when said bracket is rotated about its pivot to bring said center point into contact with such surface, said beam may be rotated about said center point and a cross bar removably affixed to one of said blocks at right angles to said beam.

2,594,194
OIL SEAL FOR ENGINE STARTERS
Charles S. Metager, Morris Plains, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application August 19, 1947, Serial No. 769,425
1 Claim. (Cl. 286—27)



A seal for use in an engine starter having a housing including an end portion having an opening therein and a rotatable and axially movable jaw member having a cylindrical shank portion extending through the opening in said end portion, comprising an outer baffle plate secured to said housing and having an inwardly extending circumferential flange, a resilient sealing ring, said sealing ring being affixed at its outer peripheral edge to said circumferential flange and its inner edge forming a wiping contact with said shank portion, a garter spring for biasing said inner edge into contact with said shank portion; an inner baffle plate secured to said housing and having an inwardly extending circumferential flange, a resilient sealing ring, said sealing ring being affixed at its outer peripheral edge to said circumferential flange and its inner edge forming a wiping contact with said shank portion, a garter spring for biasing said inner edge into contact with said shank portion; said inner and outer baffle plates being spaced apart to form a collecting chamber along said shank portion, and oil outlet means from said chamber to provide effective drainage therefrom.

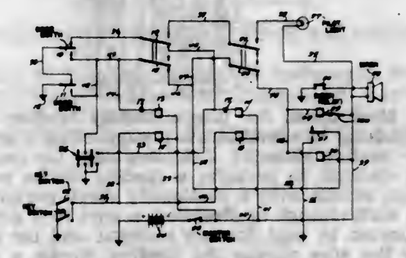
2,594,195
DRIVING MECHANISM FOR MINING MACHINES
Myron G. Miller, Springs, Pa.
Application April 5, 1949, Serial No. 85,498
4 Claims. (Cl. 262—22)



1. In an undercutting mining machine having a plurality of forwardly projecting power driven augers and power driven ground wheels, independent drive means for said augers and said ground wheels, each of said drive means being

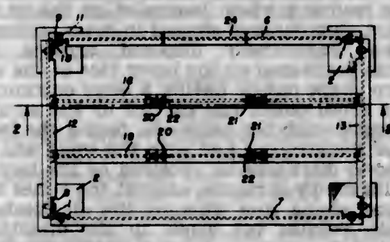
mounted on a rearwardly projecting shaft extension of one of the said augers, one of said shaft extensions mounting a main power gear, an auger drive gear and a clutch, a gear train driven by said main power gear adapted to impart power to said other drive means mounted on the second auger shaft extension, said second auger shaft extension mounting a combined ground wheel drive gear and clutch member for imparting power to said ground wheels, a second clutch member rotatable by said gear train and main power gear, and clutch actuating means for connecting said combined clutch and wheel drive gear into driving connection with said gear train through said second clutch member independently of said auger drive gear.

2,594,196
BURGLAR ALARM FOR VEHICLES AND THE LIKE
Sydney Moledzky, Brooklyn, N. Y.
Application March 7, 1947, Serial No. 732,985
5 Claims. (Cl. 177—314)



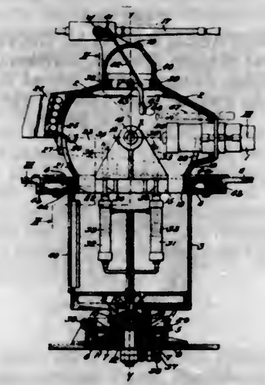
3. In a device of the class described, an alarm means, door-operated switches, key-operated switches, control relays, relay-controlled switches, an alarm relay, an alarm lock relay, means associated with the control relays and the key-operated switches to set the control relays in inoperative position when either of said key-operated switches is operated, automatically operated resetting means connected with a power source and said control relays and the door-operated switches, after all the doors are closed, to establish a circuit through said alarm relay and the alarm lock relay when any door is opened to energize the alarm relay and the alarm lock relay to sound and lock the alarm.

2,594,197
PORTABLE SUPPORT FOR ROTARY AND WORKING PLATFORMS
Alvan A. Moore, Corpus Christi, Tex.
Application July 1, 1947, Serial No. 758,272
2 Claims. (Cl. 248—23)



1. A portable support for rotary and working platform for oil field workover rigs comprising angle corner standards having enlarged supporting bases on their lower ends, horizontally disposed end side and end I-beams having their flanges notched at their opposite ends for engaging the flanges of the standards, means for vertically adjusting said beams, spaced I-beams supported by and below the horizontal plane of said horizontally disposed and side I-beams for supporting a rotary drilling rig, means thereon for adjusting the same forward or backward to overlie a well, and reinforcing gussets welded to the ends of said side and end I-beams having means for adjustably securing the same to said angle corner standards one of said side I-beams being notched intermediate the ends to provide a recessed seat to support a rotary drilling rig below the level of the platform when placed on said frame support.

2,594,198
TURRET GUN MOUNTING
Lewis Motley, London, England
Application May 12, 1947, Serial No. 747,428
In Great Britain October 12, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires October 12, 1962
7 Claims. (Cl. 89—37)

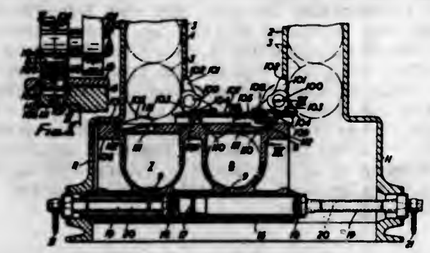


1. An armoured gun and mounting construction, comprising a gun including a gun barrel, massive armour protection defining a chamber for the gunner firing said gun, said massive armour protection including an armoured turret head which is movable about both a horizontal and a vertical axis, said gun barrel being mounted on and supported by said turret head, means for moving said turret head and said gun barrel in unison both for traverse and elevation of the gun, and supporting means including resilient recoil absorbing means for said massive armour protection affording movement of the entire massive armour protection rearwardly to absorb the recoil of the gun barrel and for restoring said massive armour protection and gun barrel to the initial position following recoil of the gun barrel.

2,594,199
APPARATUS FOR PROJECTING ROUNDS OF AMMUNITION
Lewis Motley, Much Wenlock, England
Application May 4, 1948, Serial No. 24,955
In Great Britain February 3, 1947
10 Claims. (Cl. 89—33)

1. An apparatus for discharging rounds of ammunition, comprising two containers for the rounds, a reciprocable breech element, said breech element including two receptacles, one of

said receptacles being adapted to receive a round from one of said containers when said breech element is at one end of its stroke, while the other receptacle holds a round previously received from the other container, at a common location to enable the round to be discharged,



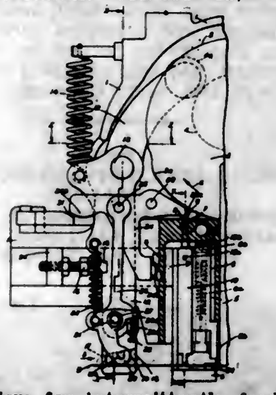
and said other receptacle being adapted to receive a round from said other container when said breech element is at the other end of its stroke, while the first-named receptacle holds a round previously received from the first-named container, at said common location.

2,594,200
REMOVABLE PARTIAL DENTURE
Beat Müller, Zurich, Switzerland
Application June 2, 1948, Serial No. 30,528
In Switzerland June 7, 1947
1 Claim. (Cl. 32—5)



In a removable partial denture in combination, a palate member having an end portion adapted to lie freely against the alveolar ridge, a continuous clamp to be rigidly fixed to the wearer's remaining original front teeth, a joint structure for removably and yieldingly connecting said palate member to said continuous clamp and comprising two portions, one a hook and the other an eyelet in which said hook is engaged for movement relative thereto, one of said portions of the joint structure being rigidly fixed to said end portion of the palate member and the other to said continuous clamp, said hook having a leg inserted with play in said eyelet and permitting a lengthwise movement of said leg in the direction out of the eyelet to allow the palate member to sink into the mucous membrane during mastication, said hook also having another leg longer than said first mentioned leg, arranged to abut against an outer face of said eyelet for limiting the oscillation motion between said joint portions and thereby the adjustability of said palate member, and a looped wire spring provided intermediate of the said eyelet and hook and having two legs standing at right angles to the eyelet, said spring serving the purpose of resiliently limiting the extent to which said palate member sinks into the mucous membrane and for preventing disengagement of the hook and eyelet.

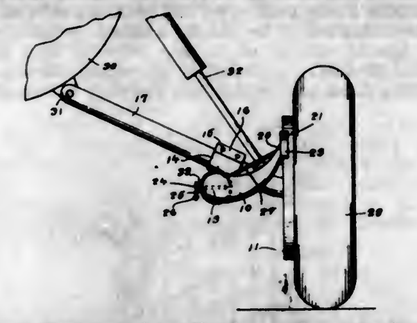
2,594,201
WIRE STITCHING MACHINE
John Irving Nasmith and Wilfred Kirby, London, England, assignors to Vickers-Armstrongs Limited, London, England, a company of Great Britain
Application October 30, 1947, Serial No. 783,200
In Great Britain September 25, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires September 25, 1966
15 Claims. (Cl. 164—48)



1. Mechanism for intermittently feeding wire comprising in combination a supporting frame, a wire feeding element, a driving cam for causing said element to perform a feeding stroke and a return stroke with a stationary dwell period before each change of direction, a wire feed gripper supported by said feeding element and for gripping the wire during the feeding stroke, a non-return gripper for holding the wire stationary during the return stroke, a wire gripper control element common to both the feed gripper and non-return gripper, a cam follower on said common control element, a cam periphery associated with said driving cam engageable with said follower to displace said control element in timed relationship with said wire feeding element, and means for operatively connecting the control element to both the feed gripper and non-return gripper, said cam periphery being shaped to displace the control element to open and close the respective grippers during the respective stationary dwell periods of the wire feeding element to ensure that full control of the wire is always taken over by one of the grippers before being relinquished by the other gripper.

2,594,202
WHEEL ROTATOR
Richard Anthony Necchi, Hingham, Mass.
Application April 14, 1948, Serial No. 21,030
1 Claim. (Cl. 244—103)

In an air actuated airplane wheel rotating device, the combination which comprises an airplane having a wheel journaled on the end of a strut, a ring channel shaped in cross section and having transversely disposed arcuate vanes therein positioned on the inner face of the wheel, a horn shape casing having a large entrance end and a small outlet end carried by the strut and suspended with the large end facing the leading end of the airplane and with the small end positioned to discharge air received by the large end in a forwardly direction against the vanes of the channel shape ring whereby the air discharged thereby rotates the wheel in the direction of travel of the airplane, a substantially rectangular shaped shoe having the opposite longitudinal edges thereof slightly curved positioned over the small end of the horn shaped casing, flanges on the opposite longitudinal edges of the shoe extended over the channel shaped ring for retaining air discharged by the horn shape casing in close proximity to the vanes, and means regulating the amount of air passing through the said horn shape casing.



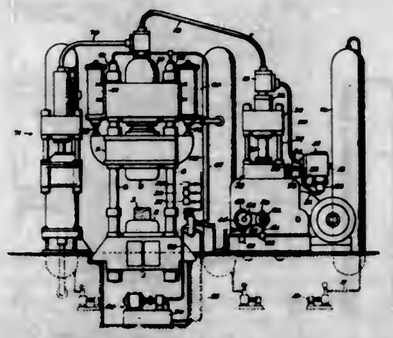
2,594,203
DYNAMOELECTRIC MACHINE BALANCED ROTOR
Horace M. Norman, Skokie, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application January 29, 1948, Serial No. 5,062
3 Claims. (Cl. 171—236)



1. A laminated rotor core for receiving a winding having a relatively light portion, including in combination a plurality of stacked generally circular laminations having generally radial teeth defining peripheral slots for receiving the winding, the laminations having grain structures running in predetermined directions, at least one of the teeth in each lamination positioned generally along a diameter parallel with the direction of the grain being shaped for relatively heavier weight to receive the light portion of the winding, the laminations being stacked with their grain directions generally parallel and their heavier teeth aligned, and approximately half in number of the laminations being reversed with respect to the remaining half about diameters parallel with the grain directions so that any cross-grain taper which may exist in the thickness of the laminations runs in opposite directions in the respective halves.

2,594,204
ACTUATING MEANS FOR FORGING PRESSES
Aleis K. Nowak, Evanston, Ill.
Application June 26, 1947, Serial No. 757,193
13 Claims. (Cl. 60—54.5)

2. A foregoing press of the class described, comprising stationary and movable anvils, hydraulic means for imparting a pressure stroke to said movable anvil at predetermined intervals and under a predetermined pressure, pneumatic means for continuously urging said movable anvil in a direction opposite to the pressure stroke thereof to thereby move the anvil upon release of the hydraulic pressure thereagainst, and pneumatic safety means for preventing the pressure of the anvil from exceeding said predetermined pressure.



13. In a hydraulic forging press, a hydraulically operated movable anvil, a storage tank for hydraulic fluid, means to maintain said fluid under pressure, valve means connected with said tank and operable, when open, to permit flow of said fluid therethrough, pneumatic means for actuating said valve, a reciprocating plunger, conduit means connecting said plunger with said valve and with said anvil, whereby said plunger will force said fluid to said anvil when said valve is closed and to said tank when said valve is open, drive means for said plunger, a plurality of electrical control circuits each adapted to control the operation of said pneumatic means for closing said valve for a different predetermined time interval, and switch means operated by said drive means to close a selected circuit.

2,594,205
METHOD OF CLEANING SHRIMP
Stephen Arthur Paoli, Rockford, Ill.
Application September 20, 1950, Serial No. 185,771
19 Claims. (Cl. 17—45)

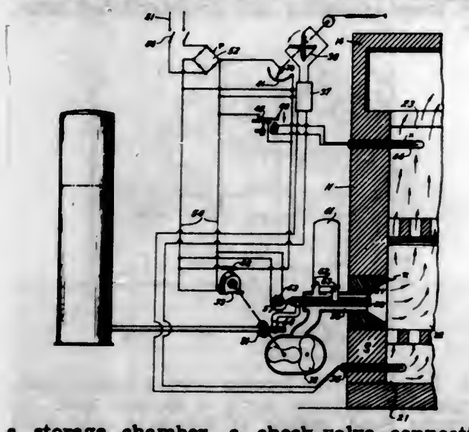


1. The method of removing the body of a shrimp from the shell which comprises applying a force between the body of the shrimp and the back of the shell to force the body outwardly from the shell.

2,594,206
OIL-BURNING AND CONTROL APPARATUS
William Harvey Payne, Hinsdale, Ill.
Application March 24, 1947, Serial No. 737,217
6 Claims. (Cl. 158—28)

1. Oil burning apparatus including a burner having an oil conduit and an air conduit, each

terminating at a nozzle, a spray plate adjacent the oil nozzle opening, biasing means for urging said nozzle spray plate toward said opening, including an electromagnetic unit energized when said oil burning apparatus is operating, and at other times being de-energized and releasing said spray plate, and blow-out means including



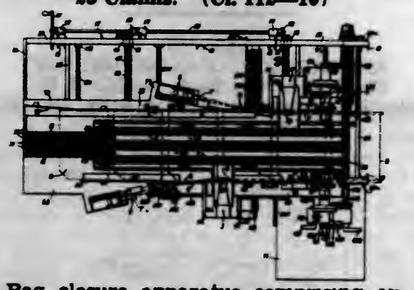
a storage chamber, a check-valve connection from the air conduit to the storage chamber to fill the storage chamber with air under pressure, and a check valve connection from the storage chamber to the oil conduit to blow oil from the nozzle as the pressures reduce in shutting off the apparatus.

2,594,207

BAG CLOSURE APPARATUS

Robert E. Pierce, Glendale, Mo., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri

Application January 7, 1949, Serial No. 69,691
23 Claims. (Cl. 112—10)



1. Bag closure apparatus comprising an opposed pair of sewing machines mounted for relative movement toward and away from one another for stitching closed the ends of open-ended flat tubular bag blanks of various lengths fed through the apparatus with their open ends travelling under the needles of the machines, and means for feeding bag blanks of various lengths through the sewing machines comprising a pair of parallel endless chains having feeding lugs thereon, the chains being mounted for relative transverse movement toward and away from one another.

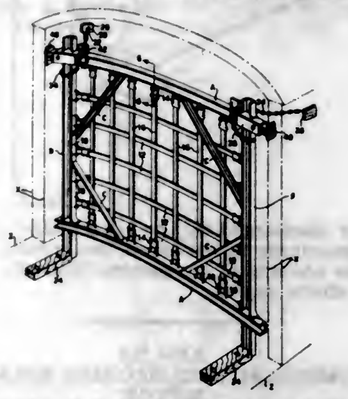
2,594,208

CAR BARRICADE OR BULKHEAD

Lawrence E. Pilot, Drexel Hill, Pa.

Application January 29, 1948, Serial No. 5,006
11 Claims. (Cl. 105—376)

1. A barricade for restraining the shifting of freight in a car, comprising a frame formed of a pair of spaced vertical channel members and a pair of spaced transverse channel sections secured to the vertical members, the transverse members being cambered towards the side of the frame adapted to be placed against freight, corner braces connected to the vertical and horizontal members, a plurality of vertical straps extending from one horizontal member to the other



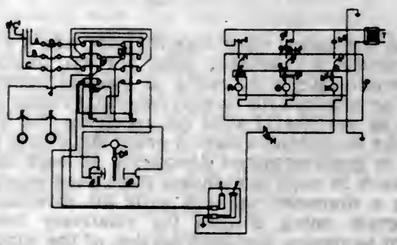
in the same plane as the convex sides of said members, a plurality of straps extending from one vertical member to the other in the same plane as the first straps, and a jack secured to the frame at each junction of the vertical and horizontal members having a horizontal screw and a surface engaging plate mounted on the end of the screw.

2,594,209

ELECTRIC STOP MOTION FOR LOOMS

Ian Stephen Porter, Barnsley, England

Application June 26, 1950, Serial No. 170,453
In Great Britain July 1, 1949
3 Claims. (Cl. 139—336)



1. In an electric stop motion for a warp pile carpet loom driven by an independent electric motor and having an electromagnetic brake, the combination of a warp stop motion, a heald frame stop motion and a knife band stop motion, a circuit for the motor and the brake, a switch in the motor circuit which is normally closed, a solenoid operative when energized to open said switch, a second circuit containing said solenoid and operative when the second circuit is completed to energize the solenoid and open said switch in the motor circuit, a break in the second circuit which is normally open, relays responsive to the operation of the respective stop motions for closing the second circuit when a fault occurs, and a second break in the second circuit which is opened and closed intermittently, the closing of said second break being timed to take place at a desired point in the weaving cycle.

2,594,210

RESIN BONDED CORD

Loren D. Potter, Enderlin, N. Dak., and Burt P. Johnson, Charlottesville, Va., assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware

No Drawing. Application July 31, 1946, Serial No. 687,515
2 Claims. (Cl. 28—80)

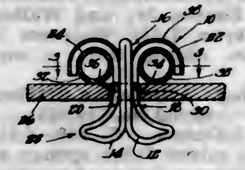
1. A rubber article reinforced with a cotton cord, the fibers of which cord are bonded together by means of an adhesive comprising a mixture consisting of a phenol-formaldehyde resole resin resulting from the reaction of a phenol and a molecular excess of an aldehyde, and an alkali metal rosinate.

2,594,211

FASTENER HAVING CLAMPING HEAD

Ougljesa Jules Poupitch, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

Application July 27, 1948, Serial No. 40,878
5 Claims. (Cl. 248—68)



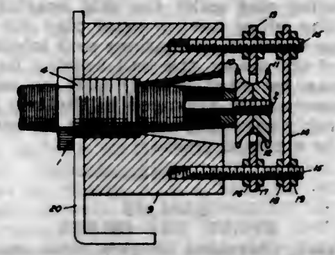
1. A blind fastener comprising an elongated strip of sheet material having different widths along its length and bent into substantially W-shape to provide outer arms and adjacently positioned inner arms extending in general parallelism, the bends connecting the outer arms to the inner arms forming the entering end of the fastener, said outer arms and adjacent portions of the inner arms having a length greater than the thickness of the apertured work through which said arms are to be inserted, axial continuations of said outer arms being abruptly widened along their longitudinal margins to provide work engaging shoulders and including a portion extending axially beyond at least one of said shoulders and diverging outwardly and downwardly in substantially arcuate form to provide a hook-like object embracing surface having the intermediate clamping surface thereof disposed substantially centrally between the axially and downwardly extending portions and spaced axially outwardly from a plane coincident with said shoulders and with the said plane defining the limit of the extent of the downwardly extending portion, said inner arms extending axially beyond said shoulders in position to be engaged by a suitable pressure applying tool after the entering end of the fastener has been inserted into a work aperture, said shoulders serving to limit the extent of axial movement of said outer arms in the direction of the applied force so as accurately to position the object clamping surface with respect to the surface of a complemental work piece, said outer arms being adapted, as an incident to the axial shifting thereof, to spread laterally and thereby coact with said shoulders in gripping a work piece therebetween.

2,594,212

ION GAUGE MOUNTING

Charles B. Proudfoot, Niagara Falls, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission

Application March 25, 1947, Serial No. 737,173
10 Claims. (Cl. 250—83.6)



1. A mounting for an ion gauge of the character described comprising, a plug including an inner stem and an outer shell in spaced relation, a cylinder carried by the outer shell, elements for mounting one electrode of the ion gauge on the cylinder and the other electrode on the stem, and means including a shoulder on said plug for mounting the plug on a pressure chamber to dispose the gauge therein.

2,594,213

PROCESS FOR THE STERILIZATION OF SALTED FOODS AND MATERIALS

Otto Rahn, Ithaca, N. Y.

No Drawing. Application May 5, 1949, Serial No. 91,626
4 Claims. (Cl. 99—186)

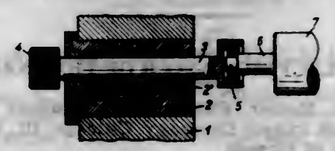
1. A process for the canning of salted foods and materials which consists in adding thereto hydrochloric acid to insure an acid condition with a pH under 4.5, sealing it within a can, sterilizing by heat below the temperatures ordinarily employed in pressure canning, and subsequently adding aseptically an equivalent amount of sodium hydroxide to combine with the hydrochloric acid within the sealed can so as to form common salt (sodium chloride) in palatable amounts, and holding the can off the market for several days so that the alkali will diffuse uniformly to create the salt intimately in the cell structure, whereby the foods and materials are sterilized in an acid condition and utilized in a salted condition.

2,594,214

ROLLER TRIP FOR PRINTING MACHINES

Max Ras, Zurich, Switzerland

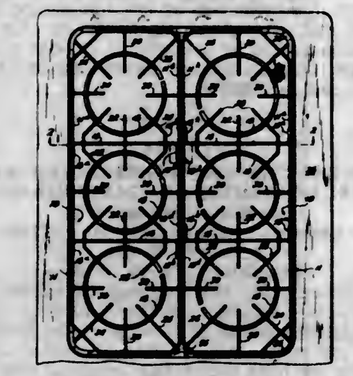
Application April 5, 1949, Serial No. 85,669
In Switzerland November 22, 1948
5 Claims. (Cl. 101—145)



1. In a roller trip for printing machines including an axle mounted rotatably and eccentrically in the trip member which in its turn is mounted eccentrically and rotatably adjustable in the machine frame, ball bearings provided at the ends of said axle, a roller having pins at each end, a seat member having an outside con-

ical shoulder, said pin member having an inside conical shoulder engaging said outside shoulder, so that said inside shoulder is protected against being damaged when removing the roller from the machine frame and setting the said pins on a support, said seat member being screwed to said pin and connected to said ball bearing for eliminating any radial and axial play between said bearing and roller the said bearing at one end of the roller having axial play for accommodating thermal elongations and tolerances in length of the roller, the ball bearing having an inner race mounted eccentrically on said axle, and a mechanism arranged in the trip member for rotatably adjusting and setting the said member in the machine frame.

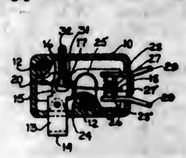
2,594,215
STOVE TOP GRATE
Marc Resek, Cleveland Heights, Ohio, assignor to Perfection Stove Company, Cleveland, Ohio, a corporation of Ohio
Application October 1, 1947, Serial No. 777,186
5 Claims. (Cl. 126—211)



3. A grate of the class described comprising an elongated substantially rectangular marginal frame made of strip metal, struts disposed transversely of the frame in the plane thereof and spaced apart longitudinally of the frame so as to divide the latter into a plurality of divisions, said struts also being made of strip metal and engaged at their ends with the sides of the frame, a ring made of rod located at about the center of each division and approximately in the plane of the frame, ribs of strip metal disposed radially of the rings and overlying the same and extending over the adjacent parts of the marginal frame and struts and notched on their under sides to receive parts of the rings, frame and struts, the ribs, rings, frame and struts being rigidly united by welding, the struts having projections on one of their ends that are extended beneath and beyond one side of the frame.

2,594,216
ELECTRIC SWITCH OF THE SNAP ACTION TYPE
John O. Reeser, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application January 20, 1951, Serial No. 206,624
2 Claims. (Cl. 200—67)

1. A snap switch comprising a fixed post having a forked-shaped end portion providing spaced apart parallelly extending legs having notches formed in their opposite non-confronting edges, a spring blade having an end portion providing a U-shaped slot to provide a tongue, one of said legs projecting through said slot, said tongue projecting into the notch of said one leg, the opposite end of said blade having an elongated slot form therein through which the other leg projects, a semi-circularly formed spring leaf having one end portion projected into the notch of said other leg, the opposite end of said spring leaf

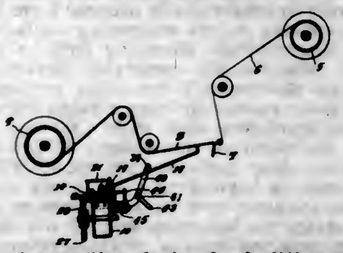


providing a T-shaped retaining head projected through said elongated slot at the end thereof farthest away from said other leg and engaging the underside of said blade, fixed contact heads spaced from each other and between which the said opposite end of the blade projects for alternate engagement with said heads, and a plunger having bearing engagement with the blade at a point between the legs.

2,594,217
SPONGE RUBBER CONTAINING WAX
Thomas H. Rogers, Jr., and Walter T. L. Ten Broeck, Akron, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
No Drawing. Application October 1, 1949, Serial No. 119,202
11 Claims. (Cl. 260—2.5)

1. Frothed rubber latex sponge containing a synthetic rubbery polymer of a conjugated diene produced by polymerization in aqueous emulsion and present in an amount of at least 55% by weight based on the rubber content of the sponge, the sponge containing from 0.5 to 5% by weight based on the rubber content of the sponge, of a solid, hard paraffin wax having a melting point in the range from 42° C. to 60° C., the wax being substantially evenly distributed throughout the reticular structure of the sponge whereby burning of the sponge by means of a lighted cigarette placed on the surface of the sponge is inhibited.

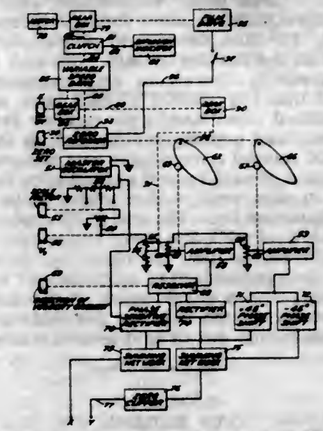
2,594,218
STOP MOTION FOR TEXTILE MACHINES
Mitchell M. Rosenstein, Willimantic, Conn.
Application February 12, 1948, Serial No. 7,732
11 Claims. (Cl. 66—166)



1. A stop motion device for knitting machines and the like comprising a supporting member extending substantially across the machine, a carrier slidably movable upon said support in a direction transverse to the direction of travel of the fabric produced in the machine, a probe mounted on said carrier and extending therefrom into contact with the fabric, an electric circuit, a motor in said circuit for operating the machine,

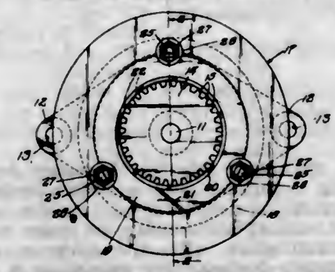
and means rendered operable by the movement of said carrier upon the engagement of said probe with a flaw in the fabric to cause opening of said circuit and stoppage of the machine.

2,594,219
APPARATUS FOR GEOPHYSICAL DISPLAY
Wilfred Roth, Cambridge, Mass., and John Ohman, Northport, N. Y., assignors to Geovision Incorporated, a corporation of New York
Application December 21, 1949, Serial No. 134,262
30 Claims. (Cl. 315—24)



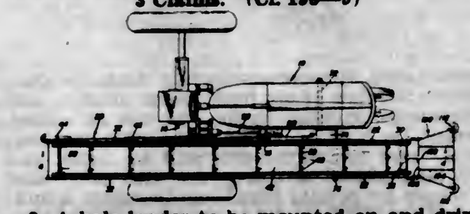
1. A generator of scanning potentials comprising a master oscillator producing sinusoidal waves, means for modulating a portion of said waves in accordance with the function $\sinh kt$, where t is time elapsed after a given instant and k is a selected constant, means for modulating a second portion of said wave in accordance with the function $\cosh kt-1$, means for deriving quadrature components of said first modulated portion, means for rectifying said second modulated portion, and means for adding said rectified wave to one of said quadrature components to produce a deflecting potential.

2,594,220
ADAPTER
Benjamin Rozett, Chicago, Ill., assignor to Joseph Weidenhoff, Incorporated, a corporation of Illinois
Application March 26, 1947, Serial No. 737,394
3 Claims. (Cl. 287—52)



1. A universal adapter for use on each of a plurality of substantially circular members of various diameters for making a unitary assembly having a desired outer diameter, said adapter comprising: an annular member having an inner diameter larger than the diameter of the largest circular member; a plurality of internested substantially concentric annular members with the outer internested member having an outer diameter slightly smaller than the inner diameter of said first annular member and the inner internested member having an inner diameter slightly larger than the diameter of the circular member upon which the adapter is to be used, each of said internested members having a close fit with the members adjacent it and each being provided with a wide split to provide a substantial degree of contraction when force is applied to the outside of the member; a plurality of depressed surfaces extending across the outer surface of the outer internested member with each depressed surface sloping from one end to the other to provide a cam surface; a plurality of arched surfaces on the inner surface of the first annular member with each arched surface adapted to extend over a cam surface; and a bolt held between each cooperating cam surface and arched surface with the bolt having a surface engaging the cam surface for applying pressure simultaneously outwardly against the first annular member and inwardly against the internested members.

2,594,221
BALE LOADER
Warren E. Ryan, Grinnell, Iowa
Application February 21, 1950, Serial No. 145,438
3 Claims. (Cl. 198—9)

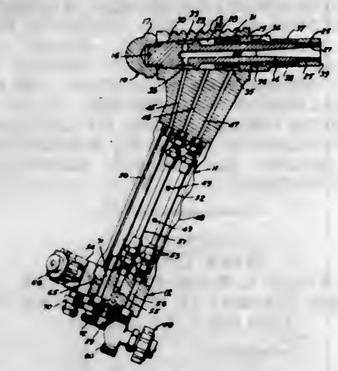


3. A bale loader to be mounted on and driven by a tractor comprising a conveyor assembly including a pair of side plates disposed in spaced apart parallel relation, said plates terminating in inturned angles at the lower edge, inwardly directed rails on said plates intermediate the edges of said plates, means for supporting said conveyor on said tractor, axles journaled between said side plates at the opposite ends thereof, a pair of sprocket wheels on each of said axles, a pair of parallel, endless sprocket chains entrained over said sprocket wheel, a plurality of rods extending between said parallel sprocket chains, the upper flight of said chains riding on said rails, the lower flight of said chains riding on said inturned angles, a bottom wall supported on said rails between said chains, feeding and guiding means including a funnel-shaped guideway having forwardly and outwardly inclined side walls, shoe supporting said guide walls and the lower end of the conveyor, vertical rods at the forward ends of said side walls, star wheels journaled on said rods.

2,594,222
MANIFOLD FOR MOLTEN MATERIAL SPRAY GUNS
Manuel A. Sandora, San Francisco, and Cecil E. Freeman, San Carlos, Calif., assignors to C. E. Freeman Co., Inc., San Francisco, Calif., a corporation
Application September 27, 1948, Serial No. 51,426
3 Claims. (Cl. 299—86)

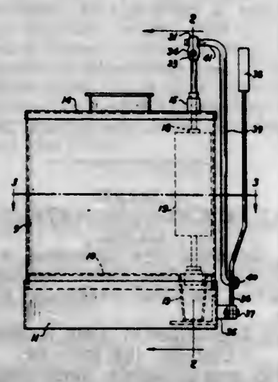
2. A spray gun assembly comprising a tubular gun adapted to deliver a suspension of fusible dust material in compressed air and to provide

a flame for heating and fusing the dust, said gun having a handle and separate passageways in the handle for oxygen, fuel gas, and an air-material mixture, a manifold fixed to the handle of the gun, said manifold having an air-material mixture outlet, an oxygen outlet and a fuel gas outlet communicating with the air-material mixture, oxygen and gas passageways, respectively, said manifold also having an air inlet, an air outlet, an air-material mixture inlet, ducts intercommunicating said air inlet with said air outlet and said air-material mixture outlet, a duct communicating said air-material mixture inlet with said air-material mixture outlet and a valve in



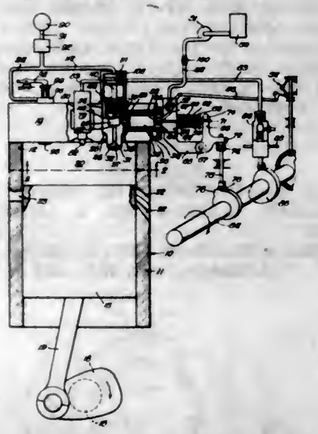
each of said intercommunicating ducts for controlling the flow of air from the air inlet to said air-material mixture outlet and the air outlet, a vessel for holding a supply of fusible dust material, lines communicating said air outlet and said air-material mixture inlet with said vessel to supply air to said vessel and to supply a mixture of air and material to the air-material mixture inlet, said manifold also being provided with oxygen and fuel supply means including an oxygen inlet and valve and a fuel gas inlet and valve for controlling the supply of oxygen and fuel gas to said oxygen and fuel gas outlets and the associated passageways in the handle.

2,594,223
SPRAYER
Vincent Santarelli, Detroit, Mich.
Application November 4, 1949, Serial No. 125,562
4 Claims. (Cl. 299—97)



1. A sprayer of the class described, comprising a liquid receiving tank having a top and a bottom; a tubular fitting fixedly mounted in said top; a liquid container positioned in said tank and having a top and a bottom; a tubular fitting fixedly mounted in the top of said container; a tube threadably connected at one end with said fitting and communicating at its connected end with the interior of said container, said end of said tube being inclined on its periphery to provide a valve face, said tube slidably projecting through said first named fitting; a tube projected through the bottom of said container, in fixed relation thereto, and having its inner end inclined to form a valve seat for engaging said valve face and forming therewith a leak proof connection, said second named tube communicating through lateral openings with the interior of said container; a well mounted on the bottom of said tank and projecting downwardly therefrom and opening at its upper end into the interior of said tank, said well being inclined downwardly to smaller cross sectional area; and a plunger mounted on the lower end of said second named tube and adapted upon reciprocation of said second named tube for reciprocating in said well, said plunger being of less outside diameter than the inside diameter of the open end of said well, the lower end of said second named tube being open for receiving liquid from said well upon movement of said plunger inwardly of said well; and a check valve at the lower end of said second named tube for preventing flow of liquid downwardly out of said second named tube.

2,594,224
GAS ENGINE
Clarence H. Schowalter, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Original application February 23, 1945, Serial No. 579,374. Divided and this application January 18, 1951, Serial No. 206,610
8 Claims. (Cl. 123—179)



1. In an engine of the character described, providing a cylinder and a piston reciprocable therein, defining a cylinder working space, means forming an auxiliary combustion space normally in communication with the cylinder working space, means operable for admitting a gaseous fuel to said auxiliary combustion space, and means operable for admitting a liquid fuel to the cylinder working space, the combination therewith, of means for admitting air under pressure to the cylinder working space to start the engine, and means responsive to the engine starting air pressure for interrupting communication between said auxiliary combustion space and the cylinder working space.

2,594,225
MANUFACTURE OF ALKYLLEAD COMPOUNDS WITH CALCIUM-LEAD ALLOYS
Hymin Shapiro, Detroit, and Ivar T. Krohn, Royal Oak, Mich., assignors to Ethyl Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application May 29, 1951, Serial No. 229,002
3 Claims. (Cl. 260—437)

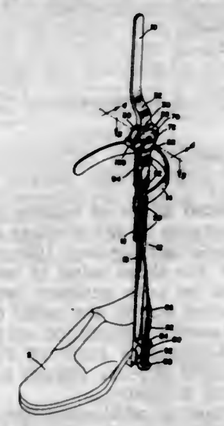
1. The process for making hydrocarbon-lead compounds comprising reacting a calcium-lead alloy consisting essentially of an alloy having an atomic ratio of calcium to lead of between about 2.2 to 1 and 3.5 to 1 with an alkylating agent which includes the hydrocarbon radical in question and having a negative radical which reacts with calcium.

2,594,226
CARBON ELECTRODES FROM BITUMINOUS COAL
Frederick L. Shea, Jr., Chicago, Ill., assignor to Great Lakes Carbon Corporation, Morton Grove, Ill., a corporation of Delaware
No Drawing. Application June 15, 1948, Serial No. 33,230
4 Claims. (Cl. 202—26)

1. A process for manufacturing coal-coke of improved strength, particle density and conductivity, and decreased porosity, suitable for use in electrode manufacture which comprises heating coal consisting essentially of a bituminous coking coal containing about 20–40% volatile matter, and which swells and becomes plastic upon being heated to 400–500° C. to an infusible, normally non-plastic condition at a temperature between about 300° and about 550° C., and in any event to reduce the volatile content by destructive distillation, to between about 8 and about 20%, which material is deformable under high mechanical pressure at a temperature of 300–550° C., cooling and crushing the partially coked coal and compressing it without added binder at a pressure of at least 2,000 pounds per square inch at a temperature between about 350° and about 550° C. to deform and autogenously bond the particles together, crushing the resulting composition to form particles and coking said particles above about 700° C. to a volatile content below about 2%.

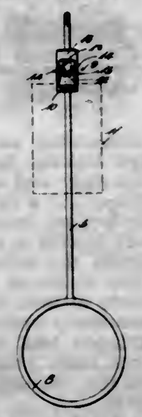
2,594,227
LOCKING KNEE JOINT FOR ARTIFICIAL LIMBS AND ORTHOPEDIC BRACES
Charles V. Smith, Seattle, Wash., assignor to The Charles C. Cullen Co. Inc., Seattle, Wash., a corporation of Washington
Application May 25, 1951, Serial No. 228,145
14 Claims. (Cl. 3—2)

1. A knee action to lockably articulate and connect the thigh and lower leg members of a prosthetic or orthopedic aid to walking, comprising: a pair of bars each forming part of a leg member; one of said bars including an annular ring rigid therewith; the other of said bars including a pair of cheek plates spaced apart from each other and disposed adjacent the opposite faces of said annular ring; a trunnion member non-rotatably secured to said cheek plates and forming a journal for said annular ring between said cheek plates; said trunnion member having a plurality of peripheral recesses each including a cam surface; a roller in each recess, said rollers being of a length greater than the combined thickness of said cheek plates and said ring; said cheek plates having aligned slots located to permit the protrusion of the ends of the rollers; means for securing said cheek plates and trunnion member in assembled relation to said ring; a pair of shifter plates, each rotatably juxtaposed to the external face of the cheek plates and having socketed connections with the protruding ends of the rollers; a yoke connecting said shifter plates external of said ring for conjoint movement; and means carried by one of the bars and operable upon the pressing of the



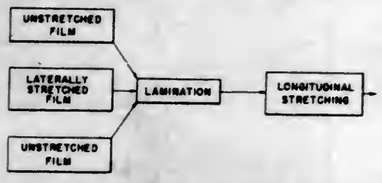
aid to the ground to rotate said shifter plates to initiate movement of the rollers relative their respective cam surfaces and the locking of the trunnion member within the annular ring member, said means to rotate said shifter plates being automatically retractible upon removal of the pressure of the aid to the ground to unlock the knee action.

2,594,228
GARMENT RECEIVING BRACKET OR HANGER
Frank R. Smith, Orange, Tex.
Application July 12, 1947, Serial No. 760,668
3 Claims. (Cl. 40—11)



1. In a device for receiving and supporting a plurality of garment hangers or the like, an elongated rod-like element, hook-like means carried by one end of said elongated rod-like element for securing said element to a supporting member, a ring-like member carried by the opposite end of said elongated rod-like element and disposed at right angles to the hook-like means, and clip means on the suspension element for holding identifying invoices, the said clip means being so located that the invoices will not cover the ring-like member.

2,594,229
LAMINATED STRETCHED FILM
James E. Snyder, Akron, and Foster J. Young, Cuyahoga Falls, Ohio, assignors to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application July 21, 1950, Serial No. 175,254
4 Claims. (Cl. 154—124)



1. A laminated sheet of rubber hydrochloride film which contains on the average no more than 10 parts of plasticizer for each 100 parts of rubber hydrochloride, the sheet being at least .0007 inch thick, the film on both surfaces being stretched the same amount and in the same one direction, said sheet between its stretched surfaces consisting of an intermediate layer of rubber hydrochloride stretched at least 100 per cent both longitudinally and laterally.

2. The method of producing film which comprises laminating sheets of substantially unstretched rubber hydrochloride to an intermediate ply of rubber hydrochloride stretched at least 100 per cent in one direction, and then stretching the lamination at least 100 per cent perpendicularly thereto.

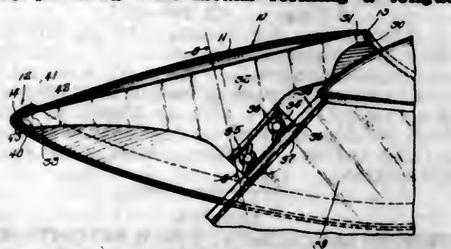
2,594,230
BARRETTE
Nathan L. Solomon, Englewood, and Irving W. Schaef, Jr., Norwood, N. J.; said Schaef assignor to said Solomon
Application November 26, 1948, Serial No. 62,152
15 Claims. (Cl. 132—48)



1. A barrette comprising an elongated main body, an elongated locking member, means to secure together the body and member generally parallel to each other with a lock of hair gripped therebetween, the locking member confronting surface of the body having a longitudinally extending recess therein, the bottom surface of the recess being in the shape of an ornament in intaglio, such bottom surface, by reason of such ornament, being markedly irregular, whereby the portion of the gripped lock of hair which is diverted toward the main body by the locking member is frictionally engaged by the bottom surface of the recess.

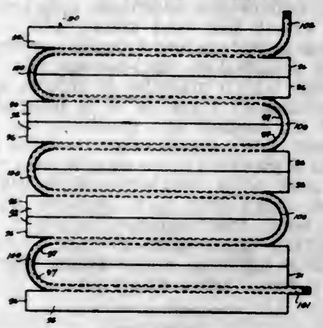
2,594,231
VISOR FOR VEHICLES
Max U. Squiers, La Grange, Ill., assignor to Charles Peckat Manufacturing Co., a corporation of Illinois
Application November 7, 1950, Serial No. 194,484
2 Claims. (Cl. 296—95)

1. A visor and moulding strip attachment therefor, comprising: a visor body of sheet material having a flanged periphery and having an upstanding ear adjacent but spaced from said flange and on the opposite side of the sheet therefrom, a moulding strip of resilient material having at least a portion of one edge shaped as a U adapted to engage said ear and having at least a portion of the opposite edge bent generally to conform to said flange and the ends of said strip being provided with means forming a tongue,



a pair of slots in said visor adapted to receive the tongues, said strip being deformable to cause said U-shaped portion hookingly to engage said ear and said bent edge portion to engage said flange and said tongues to enter and engage said slots, the resiliency of said strip creating a force to maintain such engagement to secure the strip to the visor body.

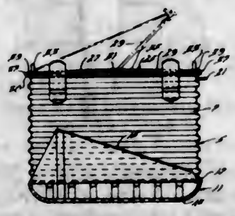
2,594,232
SOLAR HEATER AND HEAT EXCHANGER
Clinton L. Stockstill, Detroit, Mich.
Application September 16, 1947, Serial No. 774,220
4 Claims. (Cl. 257—262.22)



4. A solar heater including a heat exchanger having therein a plurality of heat exchanger tubes arranged side by side and having laterally-projecting longitudinally-extending fins integral therewith, and fluid inlet and outlet conduits connected to the opposite ends of said tubes, certain of said tubes being arranged in a zigzag formation with arcuate connecting conduits joining their alternate ends and with the opposite ends of said fins of arcuate shape adjacent said arcuate connecting conduits substantially fitting the curvature of said arcuate connecting conduits, said heat exchanger tubes and said connecting conduits being integral with one another and with said inlet and outlet conduits.

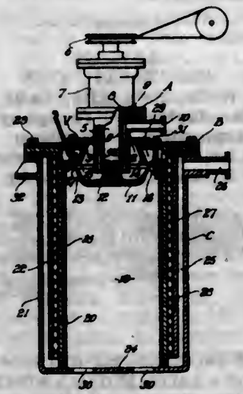
2,594,233
REFUSE BOX COVER CONSTRUCTION
Frank H. Stoner, Monroe, Mich., assignor to Monroe Auto Equipment Company, Monroe, Mich., a corporation of Michigan
Application July 12, 1949, Serial No. 104,310
2 Claims. (Cl. 220—88)

1. A container including a box having an open upper end, a cover supported on said box and closing the open upper end thereof, said cover including two hingedly interconnected sections whereby one of said sections may be raised relative to the other section to provide access to the interior of said box, rope means extending across the top of said cover sections transversely of the hinge connection, means detachably connecting said rope means to each of said sections adjacent



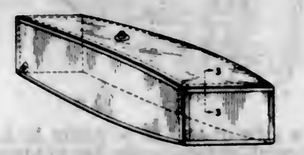
the free edges thereof, and means connected with the under side of at least one of said sections, to which one end of said rope means can be connected when said one cover section is raised relative to the top of said box and the other cover section, so as to hold said one section in its raised position relative to the other section and said box.

2,594,234
SUBMERGED FLAME BURNER
Norman Swindin, London, England
Application August 18, 1947, Serial No. 769,293
In Great Britain August 19, 1946
13 Claims. (Cl. 126—360)



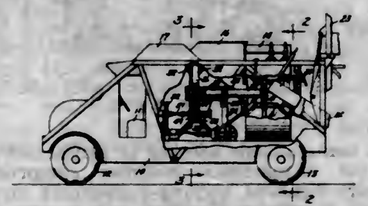
1. A submerged flame burner for heating a liquid by combustion of heavy fuel oils and like fuels, comprising a combustion chamber having means for mounting it in upright position and having an opening in its lower end to communicate with the liquid to be heated, a distributor head mounted on the upper portion of the combustion chamber and having a sleeve extending downwardly and opening into the combustion chamber and having an annular portion extending downwardly and surrounding said sleeve, a shaft extending downwardly through the distributor head and said sleeve and into the combustion chamber and providing an annular passage between the shaft and said sleeve, means for supplying fuel to said annular passage, a fuel distributing disc fixed to the lower end of the shaft below said sleeve to receive fuel from said annular passage, means connected to said shaft for rotating the disc at a sufficiently high speed to project fuel centrifugally from its periphery, an annular flange extending inwardly from the upper portion of the combustion chamber concentrically around and into proximity to the lower edge of said annular portion of the distributor head and the periphery of the disc and forming an air chamber having an annular orifice which is directed downwardly past the periphery of the disc and toward the combustion chamber, and means for supplying compressed air to said air chamber for discharging therefrom through said orifice air to admix with the fuel projected from the disc and to form therewith a combustible mixture for burning in the combustion chamber.

2,594,235
GASOLINE CONTAINER
Charles W. Taylor, Akron, Ohio, assignor to Wingfoot Corporation, Akron, Ohio, a corporation of Delaware
Application June 24, 1946, Serial No. 678,880
1 Claim. (Cl. 150—0.5)



A collapsible fabric fuel storage cell of light weight having thin flexible walls defining a fuel storage chamber, said walls being impervious to hydrocarbon fuels and resistant to the solvent action of such fuels and said walls consisting essentially of woven fabric sections of cold-drawn fibers of a fiber-forming linear superpolyamide of uniform molecular chain structure and impregnated with, and having continuous coatings on both sides of a linear super-polyamide interpolymer, and the margins of said woven fabric sections being lapped and joined by autogenous fused seams of said coatings.

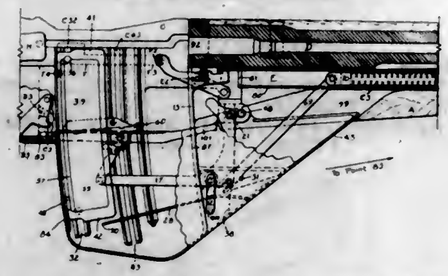
2,594,236
MOBILE CEMENT MIXER DRUM DRIVE
Harold A. Wagner and Gustave H. Wagner, Portland, Oreg.
Application July 25, 1949, Serial No. 106,524
3 Claims. (Cl. 259—177)



1. A mixing machine comprising a wheeled vehicle, a mixing drum mounted for rotation about a horizontal axis extending longitudinally and centrally of the vehicle, said drum having a coaxial inlet opening for charging materials thereinto and an opposed coaxial outlet opening of lesser diameter than the drum through which mixed materials may be discharged, a shaft extending along the axis of revolution of the drum and ending within the drum, said shaft extending through said inlet opening and including a portion spaced exteriorly of said drum, means within said drum connecting said drum to an interiorly located portion of said shaft, means outside of said drum rotatably supporting said exteriorly located portion of said shaft and pro-

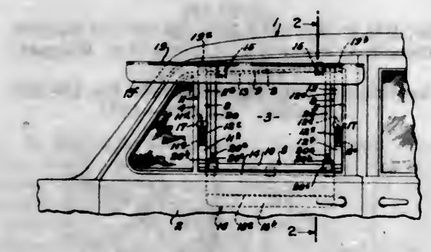
viding the sole support for said drum, shaft rotating means operatively connected to said exteriorly located portion of said shaft, and spoon means movable into and out of said outlet opening for removing mixed materials from said drum.

2,594,237
CLIP RETAINING MEANS FOR GARAND RIFLES
Richard G. Wallenhorst, Glendale, N. Y.
Application January 22, 1949, Serial No. 72,156
6 Claims. (Cl. 42—18)



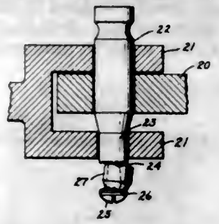
3. In a rifle of the U. S. Army M–1 or Garand type, in combination a clip for holding a number of cartridges substantially greater than eight, means for ejecting the clip when empty, optionally operable means for retaining the emptied clip in the rifle, a bolt, and means for holding the bolt in retracted position when the clip is retained.

2,594,238
DEMOUNTABLE AWNING OR SUNSHIELD STRUCTURE FOR AUTOMOBILE WINDOWS
Ellis Weisker, Wells, N. Y.
Application August 24, 1949, Serial No. 112,004
3 Claims. (Cl. 296—44)



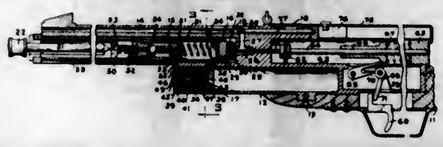
1. A demountable awning or sun-shield structure for automobile windows comprising a vertically-disposed awning-supporting structure adapted to engage the top and bottom frame members of the window, said awning-supporting structure having connected thereto at its lower edge a wide flange member adapted to be slidably inserted and frictionally retained in the glass groove of the window frame to provide a mounting on said window-frame for the connected awning-supporting structure, said awning-supporting structure having its said lower edge hingedly connected with the top edge of said wide frictionally-retained flange member to permit an outward folding movement of said awning supporting structure in relation to said flange when inserted in said groove, and said awning-supporting structure also being provided at its upper edge with connecting means for engagement with the fixed top member of the window frame.

2,594,239
LOCKING PIN
Dewey S. Weiss, Portland, Oreg.
Application December 12, 1947, Serial No. 791,193
4 Claims. (Cl. 85—7)



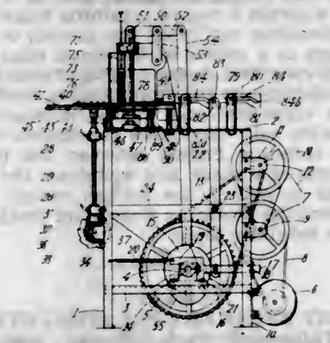
1. A locking pin comprising a cylindrical stem portion, a coaxial extension of reduced diameter at the end of said stem portion, a coaxial enlargement of substantially the same diameter as said stem portion at the end of said extension, said stem and said enlargement defining opposed shoulders at the ends of said extension, and an annular collar loosely surrounding said extension, said collar having an external diameter substantially equal to the diameter of said stem portion and an internal diameter substantially equal to the sum of the radii of said enlargement and of said extension, the surface of said shoulder on said enlargement surrounding said extension being sloped away from said extension, the length of said collar being materially less than the length of said extension between said shoulders so as to permit limited axial play of said collar thereupon.

2,594,240
PNEUMATIC GUN
William S. Wells, Palo Alto, Calif., assignor to Daisy Manufacturing Company, Plymouth, Mich., a corporation of Michigan
Application December 24, 1947, Serial No. 793,676
2 Claims. (Cl. 124—13)



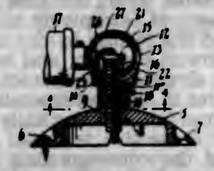
1. A hand carriable self-contained pneumatic gun including a barrel through which shot is propelled, housing means including a chamber extending generally parallel to said barrel, means separating said chamber into a storage chamber adapted to contain a supply of air under pressure and an adjacent receiving chamber communicable with said barrel, a normally closed valve controlling communication between said receiving chamber and said barrel, means for momentarily opening said valve to permit communication between said receiving chamber and said barrel, said housing means having a second chamber extending generally parallel to the first chamber, a pressure regulator valve disposed in said second chamber, a passageway extending laterally from said storage chamber and communicating said storage chamber with said pressure regulating valve, a second passageway extending laterally from said receiving chamber and communicating said receiving chamber with said pressure regulating valve, said regulator valve being responsive to the pressure in the receiving chamber for automatically maintaining a substantially uniform pressure in said receiving chamber so long as the pressure in said storage chamber is as high as said receiving chamber pressure, whereby substantially the same fluid pressure is communicated to said barrel each time said normally closed valve is opened, without recharging said storage chamber until the pressure therein has diminished below a predetermined value.

2,594,241
MEANS FOR FORMING ARTICLES SUCH AS PATTY PANS FROM PAPER OR OTHER THIN MATERIAL
James Thomas Williamson, Dunedin, New Zealand
Application July 15, 1947, Serial No. 760,964
In New Zealand October 22, 1946
9 Claims. (Cl. 93—60)



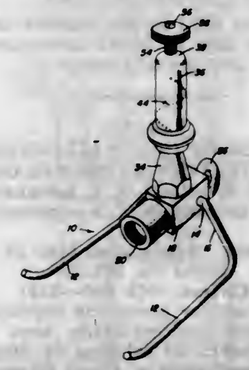
2. Apparatus for forming articles such as patty pans from paper or other thin material blanks, comprising a main frame, means on the frame for supporting a substantially vertical stack of blanks, means for intermittently compressing blanks in the lower part of the stack, means mounted on the frame for separating a measured quantity of the compressed blanks at the lower part of said stack by lifting the upper part of the stack clear of the measured quantity, and for releasing the said upper part of the stack when the measured quantity is removed, means for receiving the separated measured quantity of blanks and for conveying same away from the lower part of the stack, pressing means on the frame to which the measured quantity of blanks are conveyed for pressing same to required shape, and means for delivering the press formed articles.

2,594,242
SWIVEL-JOINTED WIRED ELECTRICAL FIXTURE
Bertram A. Wilson, Etobicoke Township, York County, Ontario, Canada
Application October 16, 1948, Serial No. 54,981
8 Claims. (Cl. 248—278)



1. A swivel jointed wired electrical fixture adapted for universal angular adjustment comprising a round hollow member having a slot of greater length than width in its curved wall and extending peripherally thereof and a hole in its curved wall spaced peripherally from the ends of the slot, a base member, a conduit adapted to carry a wire and supported at one end in said base member and extending through the slot to the interior of the round hollow member and being provided with a transversely extending shoulder adjacent its other end, spring means compressed between said shoulder and the inner surface of the round member adjacent the slot for pressing the round member into frictional engagement with the base member, and another conduit adapted to carry a wire, said other conduit communicating with the hole in the round member and being secured to and projecting outwardly from the curved side of the round member.

2,594,243
SPRINKLER
Alfred Winkler, Portland, Oreg.
Application October 13, 1947, Serial No. 779,633
4 Claims. (Cl. 299—19)

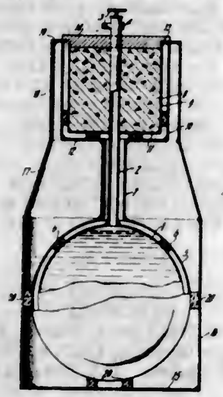


1. A lawn sprinkler comprising a stand, a hose receiving member pivotally mounted on said stand, means for adjusting said member at selected pivotal positions relative to said stand, a spacer element removably carried by said member and disposed perpendicularly thereto, an inlet bore provided in said hose receiving member, a further inlet bore provided in said spacer element communicating with said first-mentioned bore at right angles thereto, a tubular body removably carried by and coplanar with said spacer element, a group of successively spaced axially and radially displaced apertures upon the surface of the body, a piston slidably mounted in said body and including a flanged portion bearing against the inner periphery of said body for uncovering some of said apertures on one side of said body, and means for selectively adjusting said piston within said body.

2,594,244
CONTAINER FOR LIQUEFIED GASES
Paul F. Winternitz, New York, N. Y., assignor to Reaction Motors, Inc., Rockaway, N. J., a corporation of New Jersey
Application November 15, 1949, Serial No. 127,423
1 Claim. (Cl. 62—1)

A portable shipping and storage container for liquified gases comprising a thermally insulated fluid tight vessel, a slender metallic and thin walled single neck communicating with said vessel at one end only and extending upward therefrom, valve means for closing the upper end of said neck, and a thermally insulated cooling chamber integral with said container surrounding at least a portion of said neck whereby said neck is chilled and vapors passing upward into

said neck will condense upon coming in contact with the chilled inner surface of said neck and



with condensed fluid on the interior of said neck and will then flow as liquid downward through the said neck into the said vessel.

2,594,245

PREPARATION OF CRYSTALLINE DIHYDROSTREPTOMYCIN HYDROCHLORIDE

Frank J. Wolf, Westfield, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey

No Drawing. Application May 19, 1950, Serial No. 163,105
3 Claims. (Cl. 260—210)

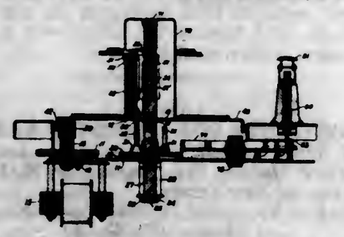
1. The process for preparing crystalline dihydrostreptomycin hydrochloride that comprises preparing a methanol solution of dihydrostreptomycin hydrochloride of about 40 mg./cc. concentration, adding a volume of this solution to about 15 volumes of acetone, and allowing the resulting turbid solution to stand until crystals are formed, thereby obtaining crystalline dihydrostreptomycin hydrochloride containing methanol of crystallization.

2,594,246

PHONOGRAPH

Arthur C. Ten Cate, Downers Grove, Ill., assignor to Oak Mfg. Co., Chicago, Ill., a corporation of Illinois

Application April 18, 1949, Serial No. 88,213
3 Claims. (Cl. 274—10)



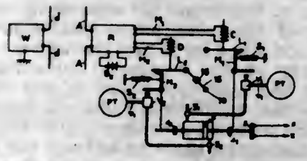
1. In a record changer, a motorboard, a vertical spindle mounted for rotation in said motorboard, a turntable having a central aperture through which said spindle passes and extends above said turntable, motor means for turning said turntable, a shroud carried by said spindle above said turntable and defining a generally cylindrical structure along which records may slide in falling on a turntable, a plurality of record handling units carried by said spindle, each unit comprising a pair of elongated scissors-like members having a horizontal pivot pin, the top ends of said members terminating as record retaining and record catching fingers respectively, the retaining finger being below the catching finger by a distance substantially equal to the thickness of a record, the bottom portions of said member being shaped to form cam faces, a keying member for each record handling unit, said keying member extending vertically from below the motorboard through said turntable and into said turret with the top of said keying member engaging the cam faces, means rotatively secured to all said keying members, said keying members being vertically movable in said turntable but rotatively locked thereto whereby when said turntable moves, the turret keying members and means below said motorboard are rotated, means biasing each record handling unit to a normal position whereby a record retaining finger is normally extending out from the shroud to engage the bottom of a record at the inner edge thereof while the catching finger is withdrawn into the shroud, and means for reciprocating said keying members vertically, said keying members cooperating with said cam faces to successively project the catching fingers between the two bottom records of a stack and withdraw the retaining finger to permit the bottom record to drop and project the retaining finger and finally withdraw the catching finger.

2,594,247

CIRCUIT BREAKER OPERATING SYSTEM

Albert Thibaudat, Paris, France, assignor to Forges et Ateliers de Constructions Electriques de Jeumont, Paris, France, a French body corporate

Application June 1, 1949, Serial No. 96,469
In France June 4, 1948
7 Claims. (Cl. 175—320)



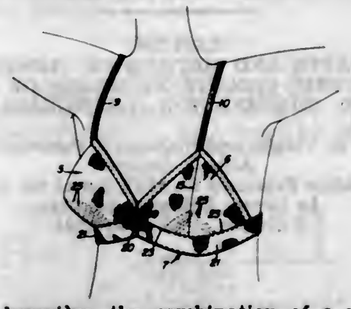
6. In a high-tension circuit-breaker of radio remote control type, having pneumatic operating mechanisms including a piston located at the high potential of said circuit-breaker, a radio receiver and intermediate relay means for controlling said operating mechanisms, said intermediate relaying means being energizable by the output of said radio receiver, an entirely autonomous control mechanism comprising a low power closing relay and a low power tripping relay both energizable by output circuits of the radio receiver, two separate mechanical valve control relaying devices of spring type, each including a rotatable lever, the first driven by the closing movement of said piston to store up control energy and the second by the opening movement of the circuit-breaker, and separate sensitive retaining elements mechanically connected to the armatures of the corresponding low-power relays and arranged for normally locking said levers in their respective terminal positions, the energization of the corresponding relay causing one of said levers to be released, two air-valves for controlling the operation of said operating mechanisms, said valves being positioned to be operated by the respective levers when released, and a device for emergency actuation of said relaying means, said device comprising a pivotally mounted and axially rotatable pillar located in an upright position adjacent to the circuit-breaker, an insulated control cabinet carried by the upper end of said pillar for accommodating the control elements which are sensitive to shocks and vibration and require inspection, disengageable linking means for releasing the stored-up control energy of said spring elements by manual rotation of said pillar, said linking means being formed by a movable control fork upon the tripping relay and a co-operating control rod upon said rotatable pillar, and elastic contact elements interconnecting the sensitive control elements accommodated by said cabinet with control elements carried by the circuit-breaker, whereby the rocking of said pillar into inoperative position disengages said linking means and contact elements so that said cabinet can be safely inspected.

2,594,248

BRASSIÈRE

Margaret H. Thompson, Tampa, Fla.

Application April 5, 1950, Serial No. 154,079
1 Claim. (Cl. 2—42)



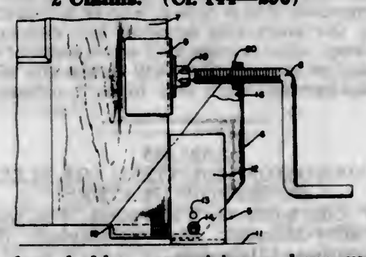
In a brassière, the combination of a pair of breast pockets each comprising two sector-shaped fabric members having arcuate edges joined by a seam at the vertical center of and extending from top to bottom of the pocket, a sector-shaped reinforcing sheet secured on the inside of the lower portion of each pocket and extending to both sides of the seam joining the members of the pocket, the lower edge of said sheet being in register with lower edges of said members, and a body-encircling band doubled along its longitudinal center line to provide upstanding inner and outer walls, lower edge portions of said pocket members and said sheets being disposed between and stitched to upper edge portions of said walls.

2,594,249

PIVOTED DOOR SUPPORTING CLAMP

Tony C. Tims, Hyattsville, Md.

Application August 8, 1947, Serial No. 767,556
2 Claims. (Cl. 144—296)



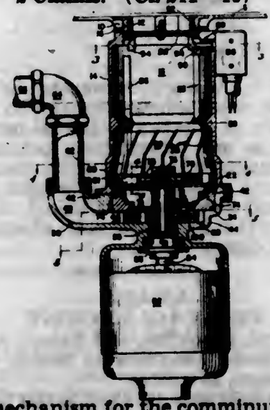
1. A door holder comprising a base member adapted to rest on the floor, a shell-like jaw assembly pivotally mounted on said base member to receive the lower free corner of a door and embodying a substantially horizontal jaw member, a substantially vertical part, and opposed sides integral with said jaw member and vertical part, an operating screw threadedly engaged with the aforementioned vertical part of said jaw assembly and extending in the general direction of the said horizontal jaw member to impinge against the free vertical edge of the door for rocking the horizontal jaw member into positive engagement with the lower horizontal edge of the door, and a pivot bolt intermediate the free edge of the said horizontal jaw member and said operating screw pivotally connecting said jaw assembly with said base member.

2,594,250

WASTE MATERIAL DISPOSAL APPARATUS

Dale O. Tranbarger, Seattle, Wash.

Application February 14, 1949, Serial No. 76,219
2 Claims. (Cl. 241—48)



1. In a mechanism for the comminution of material in the presence of solids, wall means forming a vertical axis grinding passage having an upper inlet and a lower outlet and including an inverted frusto-conical chamber portion immediately above said outlet, spaced apart grinding projections on the inner walls of said inverted frusto-conical portion, a grinding impeller in said frusto-conical chamber portion to whirl material against the walls and projections thereof, means forming a perforate bottom wall in spaced relation below said impeller blades, upstanding ribs on said bottom wall rising to shearing relation with said impeller blades, a centrifugal pump chamber below said lower outlet and in communication with the grinding passage to receive material through said perforate bottom, said chamber being materially larger than said outlet, a pumping impeller in said pump chamber to receive material at its hub and force it from said pump chamber under pressure, said pumping impeller being broader than said perforate bottom, a waste conduit from said pump chamber for the effluent from said mechanism, and electromotive means for rotating said impellers.

2,594,251

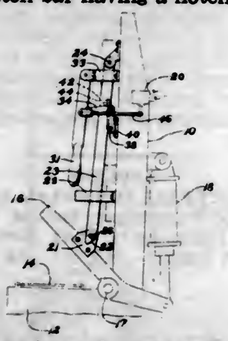
SAFETY MECHANISM FOR SPLICING MACHINES

James Trathen, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

Application February 4, 1950, Serial No. 142,443
5 Claims. (Cl. 154—9)

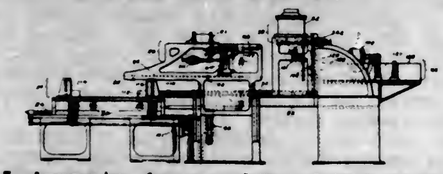
1. Safety mechanism for splicing machines of the type having a frame and a work clamp

mounted thereon for relative movement laterally of said frame and also along said frame in a direction across the path of its lateral movement together with operating mechanism therefor, said safety mechanism comprising a latch bar mounted on said frame for movement relative thereto across the path of lateral movement of said work clamp, said latch bar having a notch open in one



direction of the plane of movement of said latch bar, a pin on said clamp engageable in said notch from the side of said bar by lateral movement of said clamp in one direction to lock said clamp against clamping movement until release of said latch bar, and means for disengaging said latch bar from said clamp by movement of the latch bar in a direction across the path of lateral movement of said clamp.

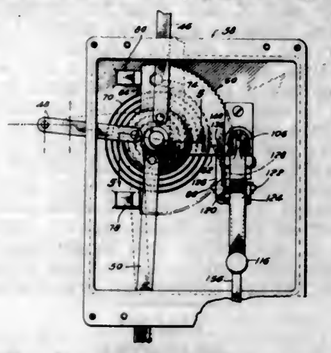
2,594,252
CELL CASE MACHINE
Daniel R. Vail, Brookline, and Robert A. De Luca, Boston, Mass., assignors to Henry C. Tuttle, Boston, Mass., as trustee
Application February 15, 1946, Serial No. 647,747
16 Claims. (Cl. 93—37)



5. Apparatus for assembling slotted partition strips comprising a feed mechanism for advancing step by step ranks of longitudinals in uninterrupted succession, power means for actuating the same, a mechanism for inserting transversals in aligned slots of a rank, power means for actuating the same, and means responsive to a plurality of movements of said feed mechanism for periodically intermitting the actuation of the inserting mechanism.

2,594,253
EMERGENCY RELEASE MECHANISM FOR EXIT DOORS
John H. Vander Veer, Westfield, N. J., assignor, by mesne assignments, to National Pneumatic Co., Inc., Boston, Mass., a corporation of Delaware
Application June 11, 1946, Serial No. 676,024
17 Claims. (Cl. 292—92)

1. In a door latching mechanism, means for retaining the door in closed position, means for actuating the door-retaining means to door-retaining position including a pivoted member, means for limiting movement of the pivoted member, means for making the door-retaining means ineffective, the ineffective-making means including means for automatically storing energy on movement of the pivoted member to one of its limits, and means normally guarded against ac-



cess thereto for releasing the energy-storing means to cause the pivoted member to make the door-retaining means ineffective.

2,594,254
APPARATUS AND METHOD OF CLOSING AN ELECTRIC CIRCUIT BY MEANS OF A SECRET COMBINATION CHANGEABLE AT WILL
Peter G. Vidalis and Nicholas J. Panoussiadis, Athens, Greece
Application February 18, 1947, Serial No. 729,380
In Greece February 20, 1946
2 Claims. (Cl. 200—159)



1. Apparatus for controlling an electric circuit having switches in proximity to one another, each switch comprising an elongated longitudinally movable member of conductive material, means for supporting same, a contact element on said member, a catch mounted on said means, said member having notches engaged by the catch to be held in one of two positions of adjustment, an elongated longitudinally movable conductor stem adjacent said member and having contact collars thereon flanking said element, and a head on said stem, and means for supporting said stem between said head and said collars, the range of movement of stem and of the adjustment of the member being such that in one position of said member and said stem, the element will engage one collar and movement of either the stem or the member will disengage the element and the collar; and in another position of the stem and member the element will be between said collars and movement of either the stem or the member will cause the element to make contact with one of said collars.

2,594,255
ANTICORROSION MOUNTING FOR ELECTRIC IMMERSION HEATERS
Allan P. Charbonneau, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application August 14, 1950, Serial No. 179,143
7 Claims. (Cl. 219—38)

1. In combination, a tank having an opening for insertion of an electric heater therethrough,

a sheathed electric immersion heater having a closure member for overlying and sealing said opening, a gasket formed of electrically insulating material between said closure member and said tank, said gasket serving to electrically insulate said heater from said tank, a mounting

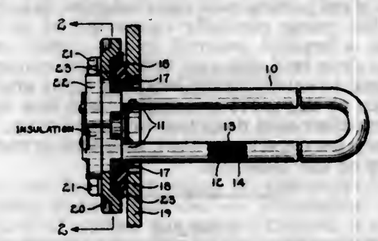
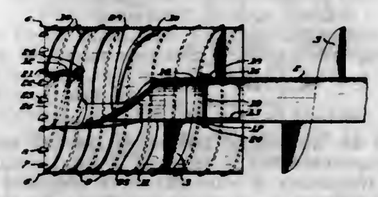


plate for securing said heater in position on said tank, and an electrically insulating disc member positioned between said mounting plate and said closure member whereby said heater is electrically insulated from both said tank and said mounting plate.

2,594,256
MINING MACHINE HEAD
Charles E. Compton, Shinnston, W. Va.
Application February 3, 1951, Serial No. 209,261
6 Claims. (Cl. 262—9)



1. A mining machine head comprising a rotatable and advanceable cutter element having a material passage therethrough and an annular rotatable and advanceable element substantially coaxial with and at least partially within said cutter element and facing in the same direction, said annular element having cutting means at the forward end thereof, said annular element having outwardly projecting means rearwardly of the forward end thereof providing passage space therebetween of materially greater cross-sectional area than said outwardly projecting means and said annular element being small enough at its forward end to enter the opening formed by said cutting means but being wider than that opening rearwardly of its forward end and at the portion of said projecting means of greatest transverse dimension whereby to constitute a breaker, said annular element having passage means therethrough to permit material therewithin to pass generally transversely out of said annular element into the space within said cutter element.

2,594,257
DETERGENT COMPOSITION
Charles B. Durgin, Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 12, 1949, Serial No. 92,941
3 Claims. (Cl. 252—140)

1. A non-oily, free flowing detergent composition comprising the following ingredients in parts by weight to make 100 parts:

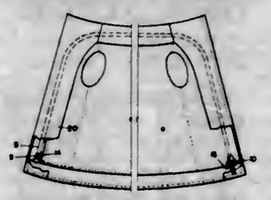
	Parts
Condensation product of a tertiary mercaptan containing from 8 to 18 carbon atoms with 5 to 40 moles of ethylene oxide per mole of mercaptan	8 to 30
Tetrasodium pyrophosphate	16 to 60
Attapulgite	5 to 25
Sodium sesquicarbonate	0 to 30
Carboxy methyl cellulose	0 to 5
Water of crystallization	0 to 27

2,594,258
DETERGENT COMPOSITION
Charles B. Durgin, Anniston, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 12, 1949, Serial No. 92,942
3 Claims. (Cl. 252—140)

1. A non-oily, free flowing detergent composition comprising the following ingredients in parts by weight to make 100 parts:

	Parts
Condensation product of tall oil with from 0.5 to 2.3 parts of ethylene oxide per part of tall oil	8 to 30
Tetrasodium pyrophosphate	16 to 60
Attapulgite	5 to 25
Sodium sesquicarbonate	0 to 30
Carboxy methyl cellulose	0 to 5
Water of crystallization	0 to 27

2,594,259
GARMENT CONSTRUCTION
Albert R. Fitch, Amsterdam, N. Y., assignor to Marcus Breier Sons, Inc., Amsterdam, N. Y., a corporation of New York
Application May 9, 1950, Serial No. 160,980
7 Claims. (Cl. 2—97)

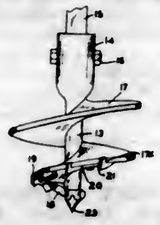


1. In garment construction, the combination of a shell, fastening means adapted to secure the edges of the garment together to close the same, a removable lining placed within the shell, fastening mechanism of the slide fastener type securing the lining to the shell, the portion of the fastening mechanism secured to the shell including a series of symmetrical teeth, a pin at one end of the series and a stop at the opposite end of the series, the portion of the fastening mechanism secured to the lining including a series of reversible symmetrical teeth, a second pin at one end of the second series, a socket member at the opposite end of the second series, and a reversible slide member adapted to intermesh the teeth of the second series with the teeth of the first series to secure the lining to the shell.

2,594,260

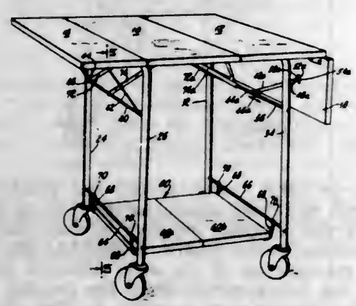
WITHDRAWN

2,594,261
EARTH AUGER WITH SPIRALLY ARRANGED REMOVABLE CUTTING BITS
Frederick E. Henning, Fargo, N. Dak.
Application January 13, 1949, Serial No. 70,777
7 Claims. (Cl. 255—69)



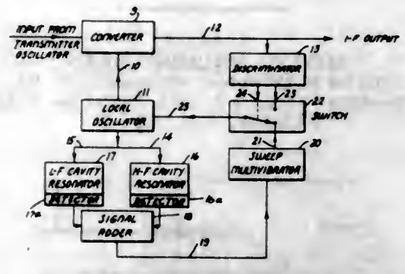
1. An earth auger comprising an upstanding elongated central hub adapted to be driven by a source of rotary power, a downwardly tapered spiral body mounted in a fixed relation around said hub and having a plurality of spaced bit-mounting steps formed in the peripheral edge portion of said spiral body, a plurality of bit-mounting members having similarly disposed steps formed therein to be cooperatively received in the steps of said spiral body for abutment therewith, means for removably securing said mounting members along the peripheral edge of said body, and a plurality of spaced cutting bits removably mounted on each of said mounted members, and having their cutting faces lying in generally radially disposed planes relative to the axis of rotation of said spiral.

2,594,262
DROP LEAF SUPPORT CONSTRUCTION FOR A TABLE OR THE LIKE
Harold Howe, Rowayton, Conn., assignor to Howe Folding Furniture, Inc., New York, N. Y., a corporation of New York
Application March 2, 1950, Serial No. 147,235
3 Claims. (Cl. 311—62)



1. A drop leaf construction for a table or the like comprising a plurality of drop leaves hinged to a plurality of edges of the top of said table or the like, two pairs of legs for supporting said table positioned adjacent the respective edges of the table top to which said drop leaves are respectively joined, cross rods interconnecting the legs of said pairs of legs respectively, and other brace means interconnecting said rods and the under surfaces of said drop leaves respectively, said brace means each comprising a rigid member having pivotally attached at one end an eye adapted to be slipped over one of said rods and to be rotatable and slideable on the rod, the said pivotal connection between said rigid member and said eye permitting angular movement of said rigid member in a plane at right angles to the rotative movement of said eye and said rigid member about said rod, said rigid member being connected at its other end to a link by a pivot the axis of which is substantially parallel to the axis of the pivot joining said rigid member to said eye, said link being pivotally connected at its other end to a bracket secured to the under surface of said drop leaf, the axis of the pivot connecting said link to said bracket being at right angles to the axis of the pivot connecting said link to said rigid member said drop leaf braces serving, when the drop leaves are elevated, as a lock preventing folding of the table top.

2,594,263
AUTOMATIC FREQUENCY CONTROL SYSTEM
Allen C. Munster, Philadelphia, Pa., assignor to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application January 21, 1948, Serial No. 3,478
2 Claims. (Cl. 250—36)



1. In an automatic frequency control system for a superheterodyne receiver, a local oscillator whose frequency is controllable in response to a control voltage, a converter supplied with signals from said local oscillator and responsive to modulated carrier wave signals to produce correspondingly modulated intermediate frequency signals, a frequency discriminator supplied with said intermediate frequency signals and operative to produce a first control signal in response to deviations of said intermediate frequency from a predetermined reference value when said intermediate frequency lies within a predetermined range, a pair of cavity resonators separately supplied with signals from said local oscillator, the frequency bandwidths of said resonators being sufficiently small with respect to the separation between their respective resonant frequencies so that the response of each of said resonators is substantial only at frequencies for which the response of the other of said resonators is negligible, a generator of an alternating control signal for cyclically varying the frequency of said local oscillator thereby to cause said intermediate frequency to sweep through said operating frequency range of said discriminator, means for deriving detected signals from said cavity resonators and for applying said detected signals to said control signal generator to effect reversals in the sense of variation of said alternating control signal, switch means normally supplying said alternating control signal to said local oscillator to vary the frequency thereof, and means responsive to said control signal generated by said discriminator for actuating said switch to supply said last-named control signal to said local oscillator in place of said alternating control signal from said control signal generator.

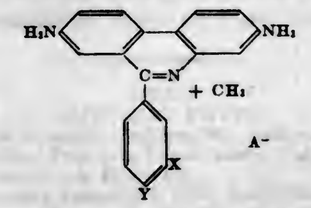
2,594,264
FISH LURE AND METHOD OF CONSTRUCTING SAME
Theodore H. Riner, Bakersfield, Calif.
Application March 7, 1946, Serial No. 652,703
11 Claims. (Cl. 43—42.24)



1. A fish lure comprising an elongated bundle of elastic strands doubled on themselves in the provision of a bend at one end thereof, a pair of axially spaced metallic ferrules surrounding the strands adjacent the bend therein, and a metallic clip extending through one of the ferrules and having a line attaching eye at one end thereof extending beyond the bend in the strands and a hook suspending loop at the other end thereof, the loop engaging the other ferrule and depending from the strands, the bend in the strands defining a head portion, the strands between the ferrules defining a flexible relatively short body portion, and the remainder of the strands defining a relatively long tail portion.

2,594,265
2,7-DIAMINO-9-(AMINOPHENYL) PHENANTHRIDINIUM SALTS
Leslie Percy Walls and Norman Whittaker, London, England, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York
No Drawing. Application August 19, 1950, Serial No. 180,514. In Great Britain July 11, 1947
6 Claims. (Cl. 260—286)

1. A compound of the formula

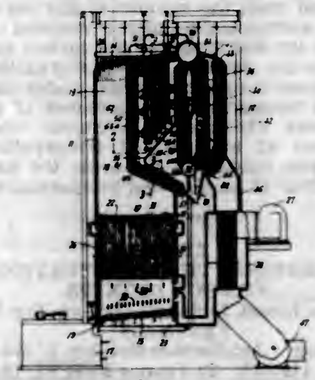


wherein X and Y are different radicals selected from the class consisting of the amino group and hydrogen and A^- represents the anion of a non-toxic acid.

2,594,266
PREVENTION OF RUST
Franklin M. Watkins, Flossmoor, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine
No Drawing. Original application December 31, 1945, Serial No. 638,581. Divided and this application April 7, 1949, Serial No. 86,121
4 Claims. (Cl. 44—74)

1. Gasoline to which a rust-inhibiting property has been imparted by the incorporation of a rust-inhibiting agent consisting essentially of ammonium mahogany sulfonates the amount of ammonium mahogany sulfonates approximating .0005–.05 pound on the oil-free basis per barrel of gasoline.

2,594,267
CHEMICAL FURNACE
Leslie S. Wilcoxson, Ridgewood, N. J., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey
Application February 19, 1947, Serial No. 729,538
5 Claims. (Cl. 23—277)



1. Apparatus for the recovery of chemicals and heat from waste liquor containing inorganic chemicals and combustible organic matter comprising walls defining a vertically elongated furnace chamber of substantially rectangular cross-section and having a heating gas outlet in the rear upper portion thereof, means for spraying said waste liquor into said furnace chamber, a hearth at the bottom of said furnace chamber on which combustion of the organic matter is completed and the inorganic chemicals are smelted, a smelt outlet adjacent said hearth, the furnace chamber front wall extending to substantially the same height as the upper end of said gas outlet, a bank of closely spaced vapor generating tubes at the rear side of said gas outlet, a group of looped pendant vapor superheating tubes in the uppermost portion of said furnace chamber in front of said gas outlet and separated from said front wall by an open pass extending substantially the full length of said superheater, an inwardly tapering nose baffle projecting forwardly from the rear wall of said furnace chamber to a point above said hearth substantially in vertical alignment with the foremost superheater tube loop and with its rearwardly inclined upper surface arranged subjacent to the lower loops of said vapor superheating tubes and shielding the same from radiation from the lower part of the furnace chamber, and said nose baffle and furnace chamber front wall collectively defining a restricted gas flow passage at one side of and subjacent to the forward tube lengths of said superheater.

2,594,268
PROCESS OF PURIFYING GASEOUS CARBON DIOXIDE
Wilhelm Geisel, Ludwigshafen-on-the-Rhine, Germany
No Drawing. Application October 1, 1949, Serial No. 119,213. In France November 15, 1946
6 Claims. (Cl. 23—150)

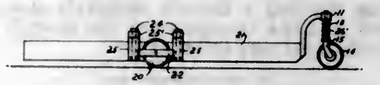
3. Method of purifying substantially pure gaseous carbon dioxide containing a minor amount of carbon oxysulfide as a contaminant which comprises passing said contaminated carbon dioxide together with enough oxygen, under non-alkaline conditions, to decompose the carbon oxysulfide into carbon dioxide and free sulfur, under a pressure ranging over 100 at-

mospheres and at a temperature not below the critical temperature of the carbon dioxide, through a bed of activated carbon, said activated carbon having been prepared by treating mineral coal in a shaft furnace with hot combustion gases which are blown through the coal with sufficient pressure to establish a strong agitation of the coal until the amount of the carbon oxysulfide is substantially entirely reduced and then removing the last traces of the carbon oxysulfide therefrom by passing the substantially desulfurized gaseous carbon dioxide, under the aforesaid high pressure, in the presence of moisture over masses which contain copper and nickel maintained at an elevated temperature, said masses being capable of removing the last traces of the sulfur at an elevated temperature.

2,594,269
PROCESS FOR THE PURIFICATION OF CARBON DIOXIDE
Wilhelm Geisel, Ludwigshafen-on-the-Rhine, Germany
No Drawing. Application October 1, 1949, Serial No. 119,215. In France June 27, 1947
5 Claims. (Cl. 23—150)

1. In a process of purifying substantially pure gaseous carbon dioxide containing a minor amount of carbon oxysulfide and carbon monoxide as contaminants to obtain a pure carbon dioxide especially suitable for the production of urea from carbon dioxide and ammonia, the steps which comprise passing said contaminated carbon dioxide together with enough oxygen, under non-alkaline conditions, to decompose in a first stage the carbon oxysulfide into carbon dioxide and free sulfur and in a second stage to oxidize the carbon monoxide into carbon dioxide, under pressure of at least 100 atmospheres and at a temperature not below the critical temperature of carbon dioxide, through a bed of activated carbon, said activated carbon having been prepared by treating mineral coal in a shaft furnace with hot combustion gases which are blown through the coal with sufficient pressure to establish a strong agitation of the coal, until the amount of the carbon oxysulfide is substantially entirely reduced, then removing the last traces of the carbon oxysulfide and at the same time to avoid oxidation of any hydrogen present by passing the substantially desulfurized gas under pressure, in the presence of moisture, through a bed of masses which contain copper and nickel, said masses being capable of removing the last traces of the sulfur at an elevated temperature, maintained at a temperature of about 110° C., and then catalytically oxidizing the carbon monoxide in the completely desulfurized gaseous carbon dioxide by passing said gas through a bed of oxides of manganese and copper at temperatures of between 150° C. and 170° C.

2,594,270
LIFTING JACK
Alfred Niederhauser, Basel, Switzerland
Application August 6, 1947, Serial No. 766,812
In Switzerland October 21, 1944
5 Claims. (Cl. 254—1)

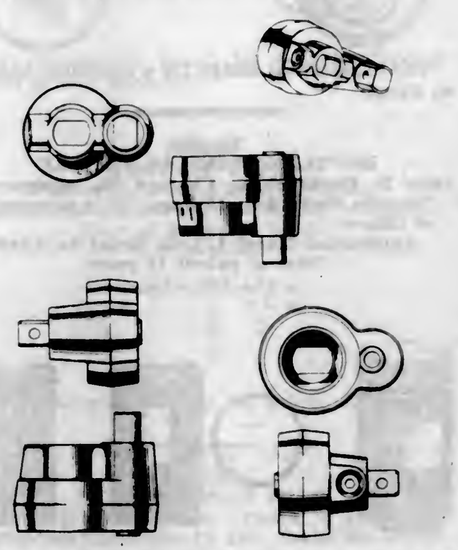


1. A lifting jack comprising a frame adapted to rest over its whole undersurface on a flat support, a pair of side wheels, a carriage for each of said wheels having an axle on which the wheel is rotatably mounted, a pair of vertical pins secured to each side of said frame, said carriages being slidably mounted on said pins, a castor wheel mounted for vertical movement in a sleeve supported at one end of the frame, and springs pressing said castor and carriages downwardly, the total force of said springs being sufficient to support the weight of the unloaded jack.

DESIGNS

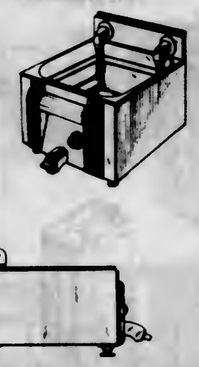
APRIL 22, 1952

166,517
GEAR OPERATOR
Herbert Allen, Houston, Tex., assignor to Cameron Iron Works, Inc., Houston, Tex., a corporation of Texas
Application December 30, 1949, Serial No. 6,932
Term of patent 14 years
(Cl. D55—1)



The ornamental design for a gear operator, as shown.

166,518
DEEP-FAT FRYER
Arthur D. Altemiller, Affton, Mo., assignor to Hercules Steel Products Corporation, Galion, Ohio, a corporation of Delaware
Application January 4, 1952, Serial No. 17,944
Term of patent 14 years
(Cl. D81—10)



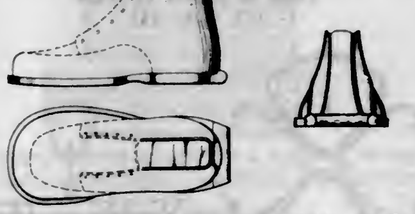
The ornamental design for a deep-fat fryer, substantially as shown and described.

166,519
SHOE
Fred L. Ayers, Watertown, Mass.
Application April 19, 1951, Serial No. 14,893
Term of patent 14 years
(Cl. D7—7)



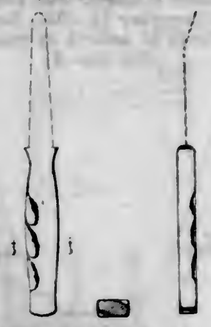
The ornamental design for a shoe, as shown and described.

166,520
SHOE
Fred L. Ayers, Watertown, Mass.
Application April 19, 1951, Serial No. 14,894
Term of patent 14 years
(Cl. D7—7)



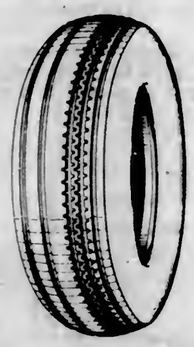
The ornamental design for a shoe, as shown and described.

166,521
KNIFE OR SIMILAR ARTICLE
Milton Bernstein, New York, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York
Application August 25, 1951, Serial No. 16,443
Term of patent 14 years
(Cl. D44—29)



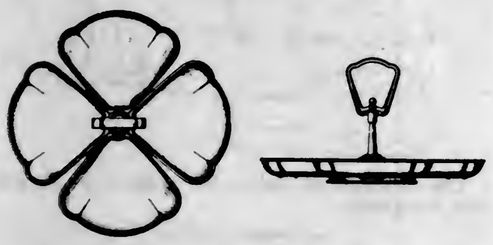
The ornamental design for a knife or similar article, as shown and described.

166,522
TIRE
William F. Billingsley, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 10, 1951, Serial No. 15,813
Term of patent 14 years
(Cl. D90—20)



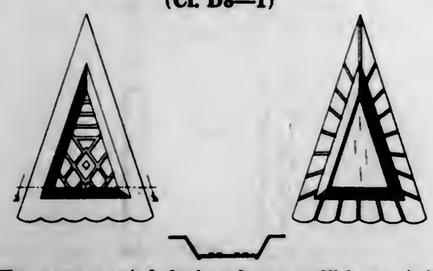
The ornamental design for a tire, as shown and described.

166,523
MULTITRAY SERVING RECEPTACLE
John M. Black, Chicago, Ill., assignor to Superior Plastics Inc., Chicago, Ill., a corporation of Illinois
Application September 22, 1951, Serial No. 16,720
Term of patent 14 years
(Cl. D44—14)



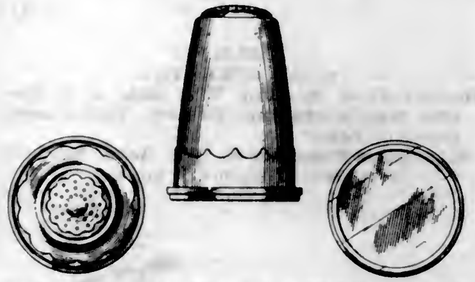
The ornamental design for a multitray serving receptacle, substantially as shown.

166,524
EDIBLE CONTAINER OR SIMILAR ARTICLE
Matthew B. Blish, Oak Park, Ill.
Application December 13, 1951, Serial No. 17,724
Term of patent 14 years
(Cl. D8—1)



The ornamental design for an edible container or similar article, substantially as shown.

166,525
SEASONING SHAKER
Charles O. Bliss, Los Angeles, Calif.
Application February 13, 1951, Serial No. 14,204
Term of patent 14 years
(Cl. D44—22)



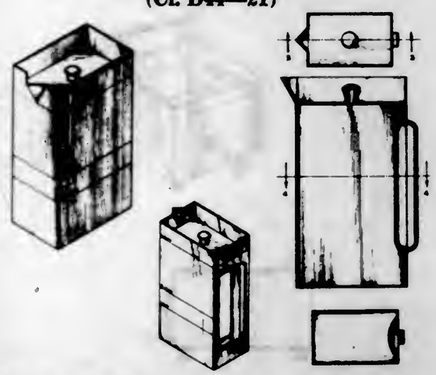
The ornamental design for a seasoning shaker, as shown.

166,526
BOTTLE OR SIMILAR ARTICLE
John D. Buckingham, Chicago, Ill., assignor to Virginia Parks, Inc., Chicago, Ill., a corporation of Illinois
Application March 1, 1950, Serial No. 8,240
Term of patent 14 years
(Cl. D58—25)



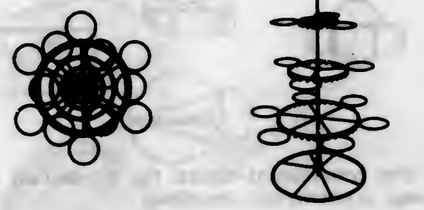
The ornamental design for a bottle or similar article, substantially as shown and described.

166,527
PITCHER
James C. Byrd, Lakeland, Fla.
Application August 13, 1951, Serial No. 16,253
Term of patent 7 years
(Cl. D44—21)



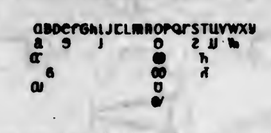
The ornamental design for a pitcher, as shown and described.

166,528
TABLE STAND OR SIMILAR ARTICLE
Helen D. Cole, New York, N. Y.
Application January 29, 1952, Serial No. 18,290
Term of patent 14 years
(Cl. D44—24)



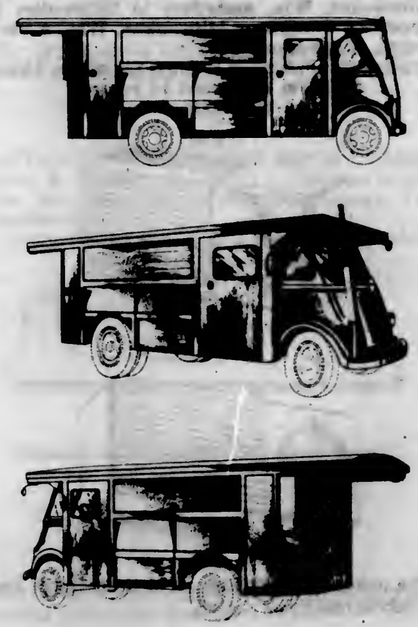
The ornamental design for a table stand or similar article, as shown.

166,529
FONT OF TYPE
Wallace B. Conant, Concord, Mass.
Application October 30, 1950, Serial No. 12,782
Term of patent 14 years
(Cl. D64—12)

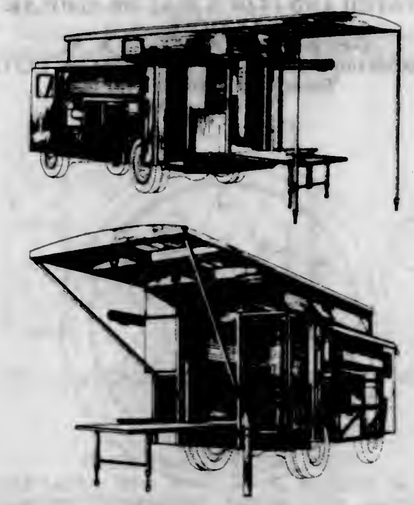


The ornamental design for a font of type, as shown.

166,530
MOBILE REPAIR SHOP
Kibbey W. Couse, Newark, N. J.
Application September 13, 1951, Serial No. 16,626
Term of patent 14 years
(Cl. D14—4.8)

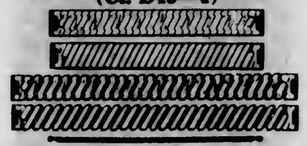


166,530—Continued



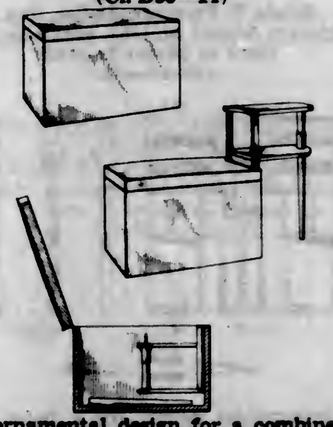
The ornamental design for a mobile repair shop, as shown and described.

166,531
BRACELET OR SIMILAR ARTICLE
Israel Daniels, Flushing, N. Y.
Application December 28, 1949, Serial No. 6,803
Term of patent 3½ years
(Cl. D45—4)



The ornamental design for a bracelet or similar article, substantially as shown and described.

166,532
COMBINED CHEST AND TELEPHONE STAND, OR SIMILAR ARTICLE
George E. Edler, Halls, Tenn.
Application October 16, 1951, Serial No. 16,959
Term of patent 3½ years
(Cl. D33—14)



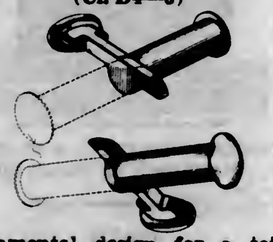
The ornamental design for a combined chest and telephone stand or similar article, as shown.

166,533
WATCH AND CLOCK DIAL OR SIMILAR ARTICLE
George Gault, New York, N. Y.
Application October 25, 1951, Serial No. 17,117
Term of patent 14 years
(Cl. D42—10)



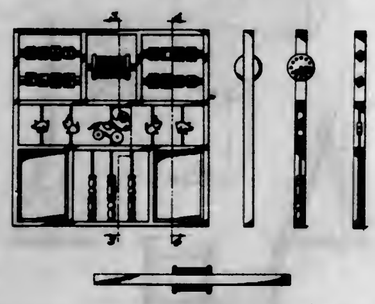
The ornamental design for a watch and clock dial or similar article, as shown and described.

166,534
TOILET PAPER HOLDER
Martin J. Grady, Bridgman, Mich.
Application November 1, 1951, Serial No. 17,228
Term of patent 14 years
(Cl. D4—3)



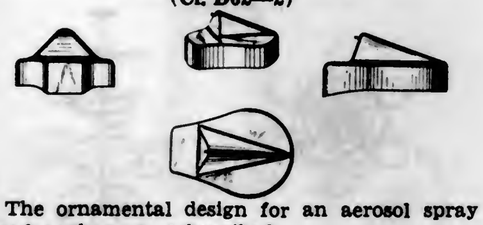
The ornamental design for a toilet paper holder, substantially as shown and described.

166,535
BABY GATE
Edwin T. Freeman, Dallas, Tex.
Application August 20, 1951, Serial No. 16,383
Term of patent 14 years
(Cl. D5—5)



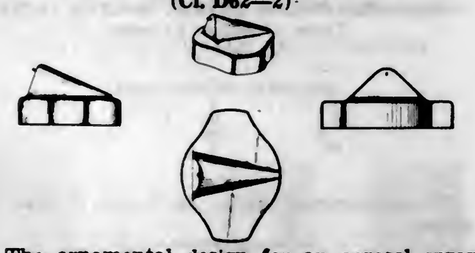
The ornamental design for a baby gate, as shown.

166,536
AEROSOL SPRAY HEAD
William C. Harris, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.
Application December 22, 1949, Serial No. 6,767
Term of patent 14 years
(Cl. D62—2)



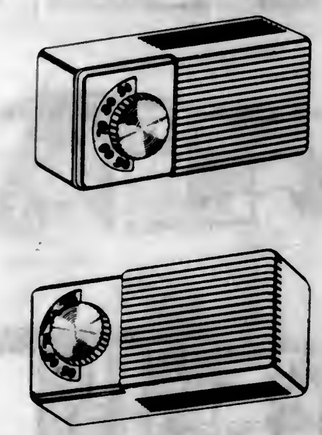
The ornamental design for an aerosol spray head, as shown and described.

166,537
AEROSOL SPRAY HEAD
William C. Harris, Racine, Wis., assignor to S. C. Johnson & Son, Inc., Racine, Wis.
Application December 22, 1949, Serial No. 6,769
Term of patent 14 years
(Cl. D62—2)



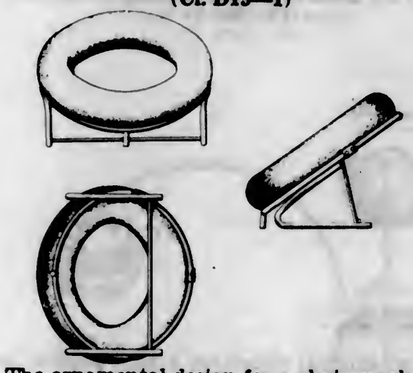
The ornamental design for an aerosol spray head, as shown and described.

166,538
THERMOSTAT HOUSING
John J. Hughes, Jr., and Clifford Brooks Stevens, Milwaukee, Wis., assignors to Milwaukee Gas Specialty Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 6, 1951, Serial No. 14,113
Term of patent 14 years
(Cl. D52—7)



The ornamental design for a thermostat housing, substantially as shown.

166,539
CHAIR
Willis K. Hutchason, Los Angeles, Calif.
Application December 24, 1951, Serial No. 17,813
Term of patent 14 years
(Cl. D15—1)



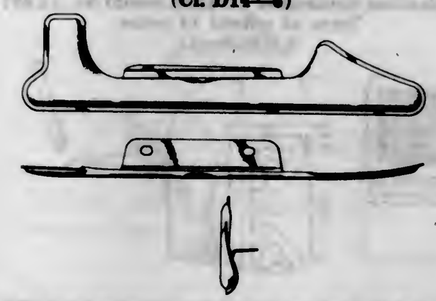
The ornamental design for a chair, as shown.

166,540
LADY'S FOOTCAP OR THE LIKE
Russell P. Kantor, New York, N. Y., assignor to Alex. Lee Wallau Inc., New York, N. Y.
Application November 28, 1951, Serial No. 17,544
Term of patent 14 years
(Cl. D7—7)



The ornamental design for a lady's footcap or the like, substantially as shown.

166,541
AUTOMOBILE GASOLINE DOOR GUARD
Murray B. Kramer, Chicago, Ill., assignor to Richlite Manufacturing Company, Chicago, Ill., a partnership
Application July 17, 1951, Serial No. 15,914
Term of patent 3½ years
(Cl. D14—6)



The ornamental design for an automobile gasoline door guard, as shown.

166,542
BOTTLE
Rudolph P. Kunett, West Hartford, Conn.
Application November 29, 1950, Serial No. 13,179
Term of patent 14 years
(Cl. D58—6)



The ornamental design for a bottle, as shown.

166,543
FLEXIBLE PLASTIC FILM
David Laska, New York, N. Y., assignor to Textileather Corporation, Toledo, Ohio, a corporation of Delaware
Application May 31, 1951, Serial No. 15,352
Term of patent 14 years
(Cl. D87—3)



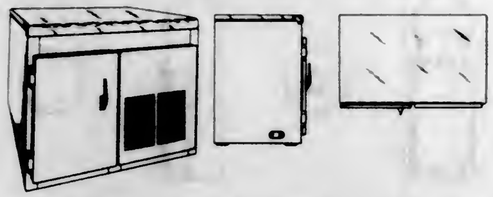
The ornamental design for a flexible plastic film, substantially as shown and described.

166,544
DIAMOND TOOL FOR DRESSING GRINDING WHEELS
Joseph Leecy, Jr., Euclid, Ohio
Application December 24, 1949, Serial No. 6,838
Term of patent 14 years
(Cl. D54—13)



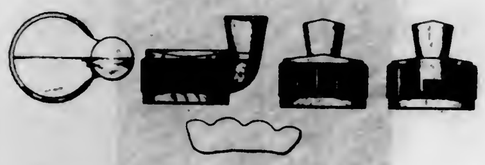
The ornamental design for a diamond tool for dressing grinding wheels, as shown.

166,545
ICE-MAKER CABINET
Raymond Loewy, New York, N. Y., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 18, 1951, Serial No. 17,769
Term of patent 7 years
(Cl. D67—2)



The ornamental design for an ice-maker cabinet, as shown.

166,546
CONTROL KNOB
Richard G. Munroe, Lexington, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application November 13, 1951, Serial No. 17,373
Term of patent 14 years
(Cl. D26—13)



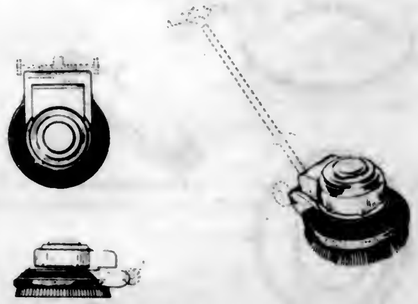
The ornamental design for a control knob, substantially as shown.

166,547
DINNER PLATE OR SIMILAR ARTICLE
Edward M. Otis, Syracuse, N. Y., assignor to Onondaga Pottery Company, Syracuse, N. Y., a corporation of New York
Application January 23, 1952, Serial No. 18,176
Term of patent 14 years
(Cl. D44—15)



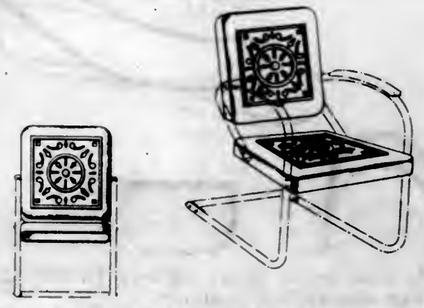
The ornamental design for a dinner plate or similar article, as shown and described.

166,548
FLOOR POLISHER
Joseph Palma, Jr., Berwyn, Ill., assignor to S. C. Johnson & Son, Inc., Racine, Wis.
Application December 8, 1949, Serial No. 6,510
Term of patent 14 years
(Cl. D9—2)



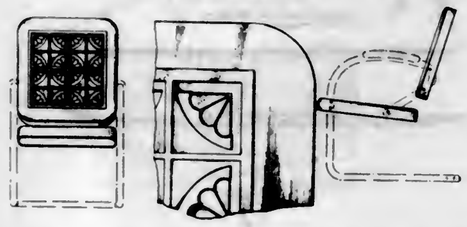
The ornamental design for a floor polisher, as shown and described.

166,549
CHAIR
Morton Pearlstine, Bala Cynwyd, Pa., assignor to Bunting Glider Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 21, 1951, Serial No. 16,696
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a chair, substantially as shown and described.

166,550
CHAIR
Morton Pearlstine, Bala Cynwyd, Pa., assignor to Bunting Glider Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 21, 1951, Serial No. 16,697
Term of patent 14 years
(Cl. D15—1)



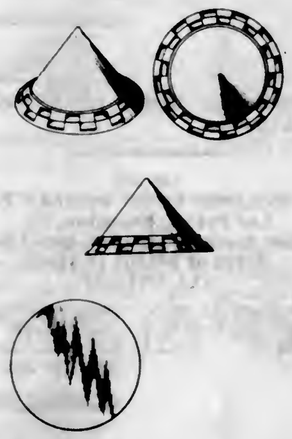
The ornamental design for a chair, substantially as shown and described.

166,551
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 25, 1952, Serial No. 18,239
Term of patent 7 years
(Cl. D45—19)



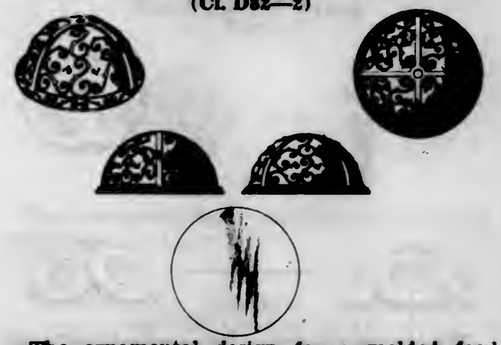
The ornamental design for a necklace or the like, substantially as shown.

166,552
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,002
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a molded food product, as shown.

166,553
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,003
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a molded food product, as shown.

166,554
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,004
Term of patent 14 years
(Cl. D82—2)



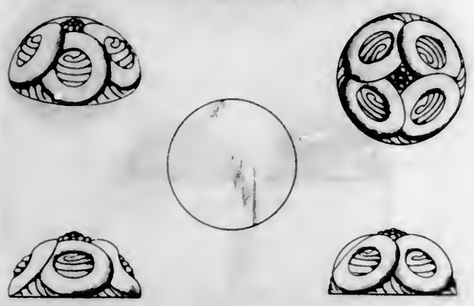
The ornamental design for a molded food product, as shown.

166,555
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,005
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a molded food product, as shown.

166,556
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,007
Term of patent 14 years
(Cl. D82—2)



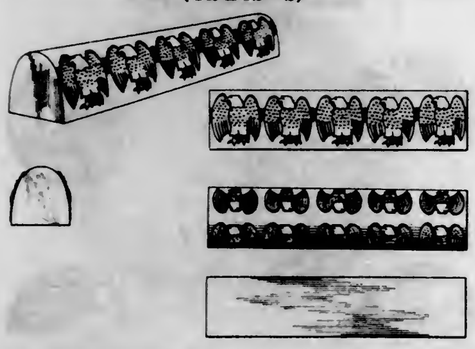
The ornamental design for a molded food product, as shown.

166,557
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,008
Term of patent 14 years
(Cl. D82—2)



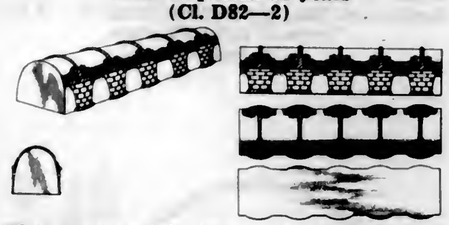
The ornamental design for a molded food product, as shown.

166,558
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,010
Term of patent 14 years
(Cl. D82—2)



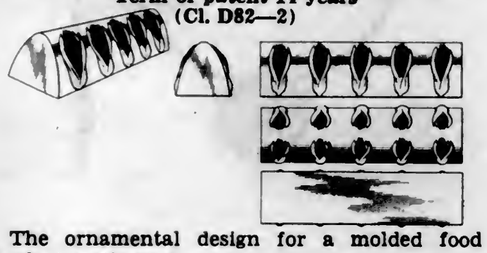
The ornamental design for a molded food product, as shown.

166,559
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,011
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a molded food product, as shown.

166,560
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,012
Term of patent 14 years
(Cl. D82—2)



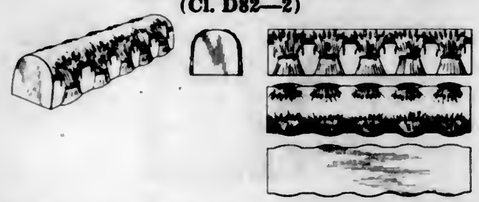
The ornamental design for a molded food product, as shown.

166,561
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,013
Term of patent 14 years
(Cl. D82—2)



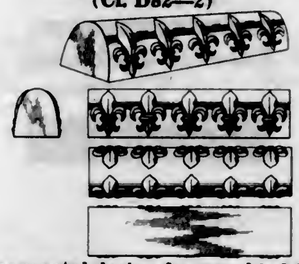
The ornamental design for a molded food product, as shown.

166,562
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,014
Term of patent 14 years
(Cl. D82—2)



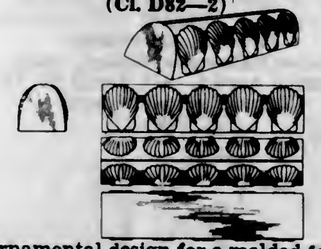
The ornamental design for a molded food product, as shown.

166,563
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,015
Term of patent 14 years
(Cl. D82—2)



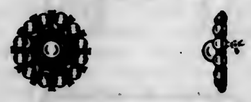
The ornamental design for a molded food product, as shown.

166,564
MOLDED FOOD PRODUCT
Leo Peters, Evanston, Ill.
Application January 11, 1952, Serial No. 18,016
Term of patent 14 years
(Cl. D82—2)



The ornamental design for a molded food product, as shown.

166,565
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,927
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,566
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,928
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,567
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,929
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,568
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 10, 1952, Serial No. 17,990
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,569
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 10, 1952, Serial No. 17,992
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,570
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 10, 1952, Serial No. 17,991
Term of patent 7 years
(Cl. D45—19)



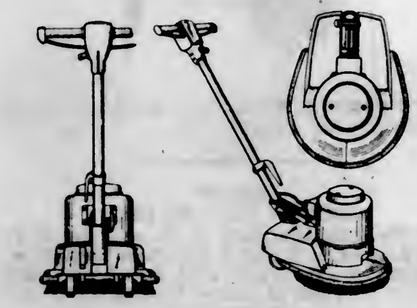
The ornamental design for a brooch or the like, substantially as shown.

166,571
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 10, 1952, Serial No. 17,987
Term of patent 7 years
(Cl. D45—19)



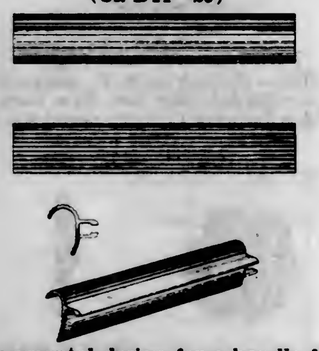
The ornamental design for a brooch or the like, substantially as shown.

166,572
FLOOR POLISHING MACHINE
Harold J. Pond, Minneapolis, Minn., assignor to Advance Machine Company, Minneapolis, Minn.
Application September 20, 1951, Serial No. 16,689
Term of patent 14 years
(Cl. D8—2)



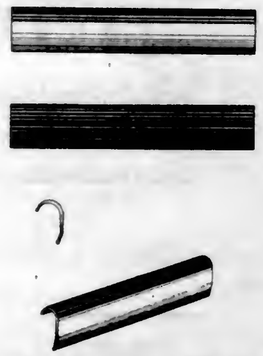
The ornamental design for a floor polishing machine, as shown.

166,573
HANDLE FOR TRAYS
Joseph A. Potchen, Grand Rapids, Mich.
Application May 8, 1950, Serial No. 9,771
Term of patent 14 years
(Cl. D44—29)



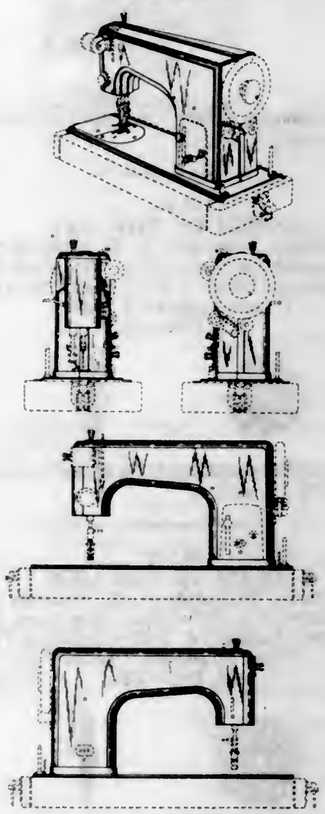
The ornamental design for a handle for trays, substantially as shown and described.

166,574
HANDLE FOR TRAYS
Joseph A. Potchen, Grand Rapids, Mich.
Application February 14, 1952, Serial No. 18,526
Term of patent 14 years
(Cl. D44—29)



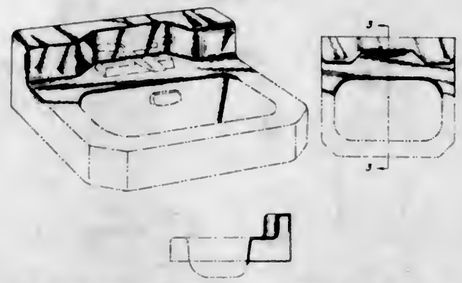
The ornamental design for a handle for trays, substantially as shown and described.

166,575
SEWING MACHINE
Hector Rabezzana, Fenton, Mich.
Application April 5, 1951, Serial No. 14,714
Term of patent 14 years
(Cl. D70—1)



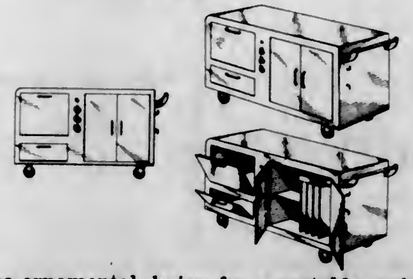
The ornamental design for a sewing machine, as shown and described.

166,576
LAVATORY
Clarence J. Rodman, Alliance, Ohio
Application December 23, 1950, Serial No. 13,561
Term of patent 14 years
(Cl. D4—2)



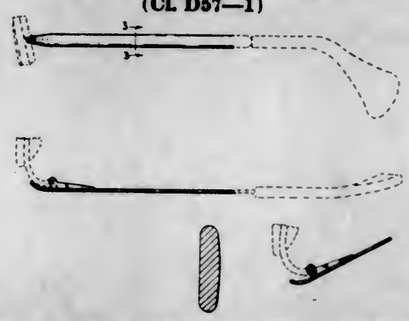
The ornamental design for a lavatory, as shown and described.

166,577
PORTABLE COOKING AND ACCESSORY UNIT FOR EDUCATIONAL DEMONSTRATION
Justine Smey, Great Neck, N. Y.
Application May 10, 1951, Serial No. 15,117
Term of patent 14 years
(Cl. D81—10)



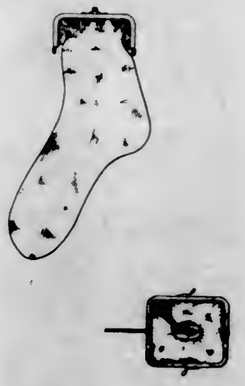
The ornamental design for a portable cooking and accessory unit for educational demonstration, as shown and described.

166,578
TEMPLE FOR SPECTACLES OR THE LIKE
Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application February 10, 1950, Serial No. 7,857
Term of patent 14 years
(Cl. D57—1)



The ornamental design for a temple for spectacles or the like, substantially as shown and described.

166,579
SOCK PURSE
William H. St. Thomas, Gloversville, N. Y., assignor to St. Thomas Inc., Gloversville, N. Y., a corporation of New York
Application December 13, 1951, Serial No. 17,713
Term of patent 7 years
(Cl. D87—3)



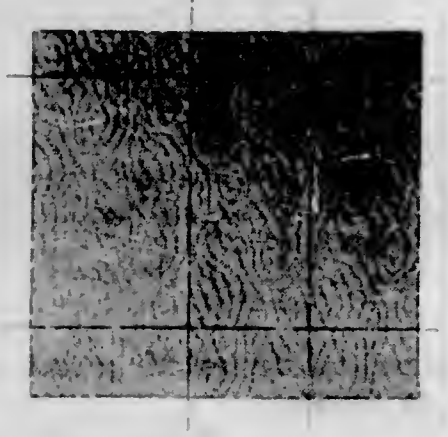
The ornamental design for a sock purse, substantially as shown.

166,580
MULTIPURPOSE TABLE
Harriet M. Thompson, Ridgefield, Conn.
Application February 5, 1952, Serial No. 18,397
Term of patent 14 years
(Cl. D33—14)



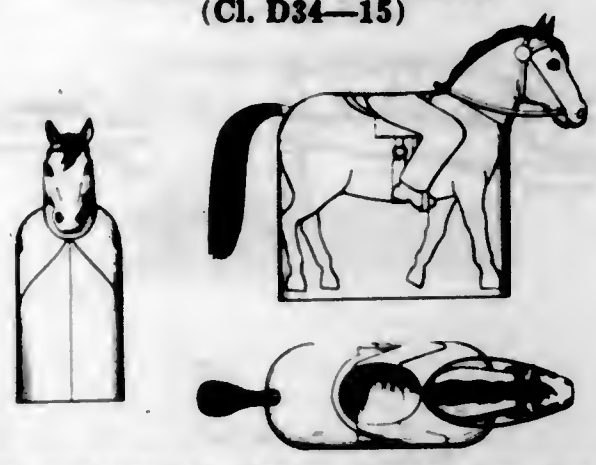
The ornamental design for a multi-purpose table, as shown.

166,581
CARPET OR SIMILAR ARTICLE
George V. Uihlein, Worcester, Mass., assignor to M. J. Whittall Associates, Inc., Worcester, Mass.
Application January 15, 1952, Serial No. 18,064
Term of patent 3½ years
(Cl. D92—4)



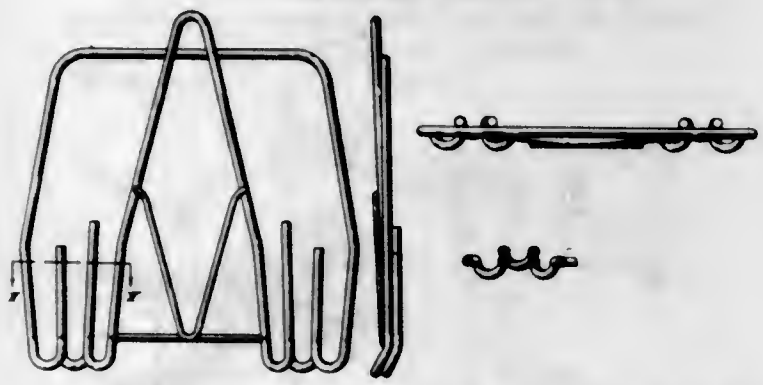
The ornamental design for a carpet or similar article, substantially as shown and described.

166,582
TOY HORSE
Robert H. Wendt, Evanston, Ill.
Application December 22, 1949, Serial No. 6,778
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a toy horse, as shown.

166,583
POULTRY HANGING SHACKLE
Ralph S. Zebarth, Hickman Mills, Mo., assignor to Gordon Johnson Company, Kansas City, Mo., a corporation of Missouri
Application May 21, 1951, Serial No. 15,277
Term of patent 14 years
(Cl. D11—1)



The ornamental design for a poultry hanging shackle, as shown.

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Containing the Patents, Trade-Marks, & Designs issued

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Official Gazette

UNITED STATES PATENT OFFICE

Department of Commerce

CHARLES SAWYER, *Secretary*

U. S. Patent Office

JOHN A. MARZALL, *Commissioner*

PUBLISHED WEEKLY BY AUTHORITY OF CONGRESS

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

A. & J. Machine and Engineering Co., Long Beach, Calif. Memorandum attachment for telephones. Serial No. 588,727, Apr. 29. Class 37.

Akin Products Company, Mission, Tex. Canned vegetables, tomato puree, tomato sauce, etc. Serial No. 605,190, Apr. 29. Class 46.

Albro Packing Company, The, Springboro, Pa. Pickles and pickle relish, canned peppers, and canned sauerkraut. Serial No. 619,911, Apr. 29. Class 46.

Albro Packing Company, The, Springboro, Pa. Pickles. Serial No. 619,912, Apr. 29. Class 46.

Alfredson, Robert W., New York, N. Y. Rat poison. Serial No. 617,004, Apr. 29. Class 6.

Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Special alloy steel. Serial No. 620,247, Apr. 29. Class 14.

Allied Stores Corporation, New York, N. Y. Women's sport shoes. Serial No. 609,524, Apr. 29. Class 39.

Altman, B., & Co., New York, N. Y. Women's hosiery, shoes, and gloves. Serial No. 619,283, Apr. 29. Class 39.

American Alcolac Corporation, Fairfield, Baltimore, Md. High molecular weight aliphatic alcohols. Serial No. 617,978, Apr. 29. Class 6.

American Stores Company, Philadelphia, Pa. Dog meal. Serial No. 589,759, Apr. 29. Class 46.

Apparel, Inc., Seattle, Wash. Men's and boys' jackets. Serial No. 617,103, Apr. 29. Class 39.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets or billfolds. Serial No. 606,198, Apr. 29. Class 3.

Aristocrat Leather Products, Inc., New York, N. Y. Wallets or billfolds. Serial No. 618,671, Apr. 29. Class 3.

Armour and Company, Chicago, Ill. Veterinary preparations. Serial No. 586,229, Apr. 29. Class 18.

Armour and Company, Chicago, Ill. Intravenous fat emulsion. Serial No. 603,104, Apr. 29. Class 18.

Ashkar, Albert J., doing business as Albert J. Ashkar Co., Los Angeles, Calif. Fresh vegetables. Serial No. 608,806, Apr. 29. Class 46.

Ashkar, Albert J., Co.: *See*—
Ashkar, Albert J.

Atlantic Products Corporation, Trenton, N. J. Hand luggage. Serial No. 618,837, Apr. 29. Class 3.

Bahan Textile Machinery Company, Greenville, S. C. Weaving loom parts. Serial No. 602,017, Apr. 29. Class 23.

Bamberger Broadcasting Service Incorporated: *See*—
General Teleradio, Inc.

Banks, James N., doing business as Sunwest Fashions Company, Phoenix, Ariz. Women's, misses', and children's dresses. Serial No. 617,530, Apr. 29. Class 39.

Bergheim, Herbert, & Co., New York, N. Y. Men's scarfs, neckties, and kerchiefs. Serial No. 614,925, Apr. 29. Class 39.

Berlinger, Joseph F., Textile Corporation, New York, N. Y. Rayon finished piece goods. Serial No. 622,291, Apr. 29. Class 42.

Bernard Cahn Co., Inc., New York, N. Y. Wallets and purses. Serial No. 618,731, Apr. 29. Class 3.

Bersworth Chemical Company: *See*—
Bersworth, Frederick C.

Bersworth, Frederick C., assignor to Bersworth Chemical Company, Framingham, Mass. Water softening agents. Serial No. 615,874, Apr. 29. Class 6.

Bigley Industries, San Antonio, Tex. Scuffs. Serial No. 610,118, Apr. 29. Class 39.

Birnie Co. Inc., The, Atlanta, Ga. Children's play suits, slacks, jeans, etc. Serial No. 610,540, Apr. 29. Class 39.

Bishop Manufacturing Corporation, Cedar Grove, N. J., and New York, N. Y. Electrical insulating tape. Serial No. 617,104, Apr. 29. Class 21.

Bol Manufacturing Company, The, Chicago, Ill. Gelatine dessert. Serial No. 603,516, Apr. 29. Class 46.

Boldemann Chocolate Co., Inc., San Francisco, Calif. Candy. Serial No. 620,588, Apr. 29. Class 46.

Bond Stores, Incorporated, New York, N. Y. Women's shoes. Serial No. 618,674, Apr. 29. Class 39.

Boyd, William, Beverly Hills, Calif. Bread and fluid milk. Serial No. 620,689, Apr. 29. Class 46.

Brill Corset Company, Philadelphia, Pa. Brassières. Serial No. 620,086, Apr. 29. Class 39.

Brisk Waterproofing Co., Inc., New York, N. Y., and elsewhere in the United States. Waterproofing membrane. Serial No. 603,221, Apr. 29. Class 12.

Budget Pack, Inc., Los Angeles, Calif. Unpopped popcorn. Serial No. 618,151, Apr. 29. Class 46.

Bulova Watch Company, Inc., New York, N. Y. Photographic recorder. Serial No. 573,524, Apr. 29. Class 26.

Burwood Products Company, Traverse City, Mich. Display stands, book ends, picture frames, etc. Serial No. 605,348, Apr. 29. Class 32.

California Crematorium, Oakland, Calif. Directing funerals and cremating of the dead. Serial No. 581,520, Apr. 29. Class 100.

Can-Meat Corp., New York, N. Y. Meat products. Serial No. 615,536, Apr. 29. Class 46.

Cape Ann Manufacturing Company, Gloucester, Mass. Men's and boys' wearing apparel. Serial No. 618,025, Apr. 29. Class 39.

Cardinal Distributing Company, Indio, Calif. Fresh tomatoes and fresh grapes. Serial No. 617,782, Apr. 29. Class 46.

Carolin, Guy, Amityville, N. Y. Candy and chewing gum. Serial No. 579,581, Apr. 29. Class 46.

Caterpillar Tractor Co., Peoria, Ill. Diesel and other internal combustion engines. Serial No. 574,205, Apr. 29. Class 23.

Champ Hats, Inc., Philadelphia, Pa. Men's and boys' hats and caps. Serial No. 616,940, Apr. 29. Class 39.

Chicago Roller Skate Company, Chicago, Ill. Rollers and wheels for dollies. Serial No. 602,141, Apr. 29. Class 19.

Cinch Products Inc.: *See*—
Red-ee Foods, Inc.

Cohen, Joseph H., & Sons, Inc., New York, N. Y. Men's clothing. Serial No. 604,357, Apr. 29. Class 39.

Columbus Plastic Products, Inc., Columbus, Ohio. Drinking glass coasters, kitchen canister sets, ornamental holders, etc. Serial No. 602,598, Apr. 29. Class 2.

Commonwealth Sanitation Company, Pittsburgh, Pa. Deodorants. Serial No. 616,014, Apr. 29. Class 6.

Consolidated Paper Bag Company, Somerville, Mass. Insulated paper bags. Serial No. 602,801, Apr. 29. Class 2.

Continental Air Lines, Inc., Denver, Colo. Air transportation of passengers and cargo. Serial No. 579,861, Apr. 29. Class 105.

Country Stores Brands Inc., Chicago, Ill. Ready mixed oil paint. Serial Nos. 555,057–8, Apr. 29. Class 16.

Cu-Lin Company, The: *See*—
Wunsch, Julius A.

Custom Scarfs, Inc., New York, N. Y. Scarfs, ties, skirts, etc. Serial No. 617,141, Apr. 29. Class 39.

Cutler Growers Exchange, Cutler, Calif. Fresh vegetables and fresh deciduous fruits. Serial Nos. 620,495–6, Apr. 29. Class 46.

Cyclops Development Co., Inc., New York, N. Y. Shoes. Serial No. 617,109, Apr. 29. Class 39.

Dalbolt, Inc., Keene, N. H. Window draperies, cottage window sets, tablecloths, etc. Serial No. 597,255, Apr. 29. Class 42.

Deluxe Manufacturing Company, The: *See*—
Lansaw, Howard B.

Derderian, Armand, Haverhill, Mass. Medicinal preparation. Serial No. 600,165, Apr. 29. Class 18.

Destilerias Munoz Galvez, S. A., Murcia, Spain. Red pepper (Spanish paprika). Serial No. 604,721, Apr. 29. Class 46.

DeYoung, Joseph, Inc., Washington, D. C. Ladies' and misses' shoes. Serial No. 602,678, Apr. 29. Class 39.

Dittmar's Candies, Inc., Chicago, Ill. Candy. Serial No. 577,171, Apr. 29. Class 46.

Donahoe's Incorporated, Pittsburgh, Pa. Butter. Serial No. 545,728, Apr. 29. Class 46.

Dow Chemical Company, The, Midland, Mich. Preparation to control the pre-harvest drop of apples. Serial No. 617,079, Apr. 29. Class 6.

Dow Chemical Company, The, Midland, Mich. Preparation to control the pre-harvest drop of apples. Serial No. 618,958, Apr. 29. Class 6.

Downing Taylor Company, Springfield, Mass. Goods in cans. Serial No. 598,163, Apr. 29. Class 46.

Easton Full-Fashioned Hosiery Mills, Inc., Easton, Md. Hosiery. Serial No. 579,809, Apr. 29. Class 39.

Eaton & Co. (Rushden) Limited, Rushden, England. Boots and shoes. Serial No. 615,471, Apr. 29. Class 39.

Eckhart, B. A., Milling Co., Chicago, Ill. Wheat flour. Serial No. 546,981, Apr. 29. Class 46.

Edlin, A. J., Manufacturing Co., Inc., St. Louis, Mo. Women's, girls', misses', juniors' and children's wearing apparel. Serial No. 618,487, Apr. 29. Class 39.

Electric Steel Foundry, Portland, Oreg. Consulting and engineering services. Serial No. 579,810, Apr. 29. Class 100.

Electro-Matic Products Co., Chicago, Ill. Rheostat for regulating voltages. Serial No. 606,864, Apr. 29. Class 21.

Eston Chemicals, Inc., Los Angeles, Calif. Insecticides and miticides. Serial No. 618,848, Apr. 29. Class 6.

Ettelbrick Shoe Company, Greenup, Ill. Boots and shoes. Serial No. 619,932, Apr. 29. Class 39.

Excelsior Cloak Manufacturing Co., Philadelphia, Pa. Children's coats. Serial No. 616,283, Apr. 29. Class 39.

Fabrique D'Horlogerie Chs. Tissot & Fils Societe Anonyme, Le Locle, Canton of Neuchatel, Switzerland. Watches, dials for watches and clocks, etc. Serial No. 612,894, Apr. 29. Class 27.

Famous Bathrobe Co., Inc., New York, N. Y. Infant's sleeping bags. Serial No. 619,235, Apr. 29. Class 39.

Fan Company, The, New York, N. Y. Vases, bowls, plates, etc. Serial No. 608,862, Apr. 29. Class 30.

Fareway Stores, Inc., Ames, Iowa. Fresh eggs and butter. Serial No. 612,797, Apr. 29. Class 46.

Faribault Canning Company, Minneapolis, Minn. Canned vegetables. Serial No. 586,477, Apr. 29. Class 46.

Fisba Fabrics, Inc., New York, N. Y. Cotton fabrics in the piece. Serial No. 622,993, Apr. 29. Class 42.

Flour Mills of America, Inc., doing business as Valier & Spies Milling Company, Kansas City and St. Louis, Mo. Wheat flour. Serial No. 553,597, Apr. 29. Class 46.

Food Machinery and Chemical Corporation, San Jose, Calif. Insecticides. Serial No. 583,196, Apr. 29. Class 6.

Forman, Ford and Company, Minneapolis, Minn. Ingredient, having a silicone base, for use in paint. Serial No. 613,563, Apr. 29. Class 16.

Forney, Harold R., Surprise, Nebr. Extensible hitches employed for coupling a towing vehicle to a trailer. Serial No. 611,264, Apr. 29. Class 19.

Forster, W. E., Wichita, Kans. Preparation for treating wheat. Serial No. 576,199, Apr. 29. Class 6.

Fougera, E., & Co., Inc., New York, N. Y. Ointment base. Serial No. 588,685, Apr. 29. Class 18.

Friedman, Abe A., Augusta, Ga. Jewelry. Serial No. 583,992, Apr. 29. Class 28.

Gang, Leo, New York, N. Y. Men's and boys' under and outer shirts, underwear, pajamas, etc. Serial No. 602,940, Apr. 29. Class 39.

Gardner Bros., Buffalo, N. Y. Fresh fruits. Serial No. 597,334, Apr. 29. Class 46.

Gem Rubber Corporation, New York, N. Y. Rain sandals and rubbers. Serial No. 596,223, Apr. 29. Class 39.

General Furniture Corp., Columbus, Ohio. Breakfast and dinette sets, bedroom furniture, living room furniture, etc. Serial No. 600,583, Apr. 29. Class 32.

General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Wheat flour. Serial No. 603,228, Apr. 29. Class 46.

General Motors Corporation, Detroit, Mich. Automobiles and structural parts thereof. Serial No. 611,422, Apr. 29. Class 19.

General Motors-Holden's Limited, Port Melbourne, Victoria, Australia. Automobiles and structural parts thereof. Serial No. 585,471, Apr. 29. Class 19.

General Teleradio, Inc., Carteret, N. J., by change of name from Bamberger Broadcasting Service Incorporated. Information service rendered through the medium of a radio program. Serial No. 557,242, Apr. 29. Class 107.

Genoa Fisheries, Inc., Boston, Mass. Frozen haddock fillets. Serial No. 613,126, Apr. 29. Class 46.

Gerber, Charles A., doing business as Charles A. Gerber Company, Bartlett, Ill. Bread crumbs and animal feed. Serial No. 577,786, Apr. 29. Class 46.

Gerber, Charles A., Company: *See*—
Gerber, Charles A.

Ghianda Ranch, Thermalito and Oroville, Calif. Fresh deciduous fruits, fresh citrous fruits, dried fruits, etc. Serial No. 609,084, Apr. 29. Class 46.

Giannini, Peter, Santa Clara, Calif. Fresh vegetables. Serial No. 572,650, Apr. 29. Class 46.

Glass Fibers, Inc., Waterville, Ohio. Thread and yarn. Serial No. 613,325, Apr. 29. Class 43.

Globe Slicing Machine Co., Inc., Stamford, Conn. Computing commodity scales. Serial No. 612,014, Apr. 29. Class 26.

Goldman, Wm. P., & Bros., Inc., New York, N. Y. Men's suits, topcoats, overcoats, etc. Serial No. 616,289, Apr. 29. Class 39.

Goldman, Wm. P., & Bros., Inc., New York, N. Y. Men's suits, topcoats, overcoats, slacks, etc. Serial No. 617,914, Apr. 29. Class 39.

Gordon, Margaret, New York, N. Y. Entertainment service. Serial No. 617,191, Apr. 29. Class 107.

Gosch, William H., Reading, Pa. Ladies' hosiery. Serial No. 619,505, Apr. 29. Class 39.

Gospel Trumpet Company, Anderson, Ind. Greeting cards. Serial No. 619,418, Apr. 29. Class 38.

Gott, H. P., Mfg. Co., Winfield, Kans. Water coolers. Serial No. 609,644, Apr. 29. Class 31.

Griffin Products, Inc., Indianapolis, Ind. Medicated foot powder. Serial No. 604,197, Apr. 29. Class 18.

Gro-Cord Rubber Company, Lima, Ohio. Soles and heels. Serial No. 570,364, Apr. 29. Class 39.

Hach Chemical Company: *See*—
Hach, Clifford.

Hach, Clifford, doing business as Hach Chemical Company, Ames, Iowa. Chemicals and chemical compositions. Serial No. 612,160, Apr. 29. Class 6.

Hagerstown Leather Co., The, Hagerstown, Md. Ladies' purses. Serial No. 616,853, Apr. 29. Class 3.

Hale, Alfred, Rubber Company, Quincy, Mass. Rubber soles for shoes. Serial No. 619,672, Apr. 29. Class 39.

Hall Laboratories, Incorporated, Pittsburgh, Pa. Chemical engineering services. Serial No. 588,027, Apr. 29. Class 100.

Hallauer, Walter A., doing business as Wapato Packing, Wapato, Wash. Canned asparagus. Serial No. 607,810, Apr. 29. Class 46.

Hapman Conveyors, Inc., Detroit, Mich. Sealing devices for flight conveyors. Serial No. 580,240, Apr. 29. Class 23.

Hartz Mountain Products, New York, N. Y. Pet foods. Serial No. 614,086, Apr. 29. Class 46.

Hat Corporation of America, Norwalk, Conn. Hats for men. Serial No. 618,087, Apr. 29. Class 39.

Hawley Products Company, St. Charles, Ill. Helmets. Serial No. 616,479, Apr. 29. Class 39.

Historical Association, The: *See*—
Winkler, Harry C.

Holland Shade Company, The, New York, N. Y. Window shades, venetian blinds, and screens. Serial No. 606,776, Apr. 29. Class 32.

Hoosac Savings Bank, North Adams, Mass. Processing and handling of deposits and withdrawal in checking and savings accounts, and mortgage and loan financing. Serial No. 612,804, Apr. 29. Class 102.

Horseless Carriage Club, West Los Angeles, Calif. Advertising, and collecting and disseminating information. Serial No. 578,795, Apr. 29. Class 101.

Hough, Frank & Co.: *See*—
Hough, Frank G.

Hough, Frank G., doing business under the name of Frank Hough & Co., Yakima, Wash. Fresh apples. Serial No. 612,168, Apr. 29. Class 46.

House of Worsted-Tex, Inc., Baltimore, Md. and Philadelphia, Pa. Men's and young men's suits, coats, vests, etc. Serial No. 608,067, Apr. 29. Class 39.

Hudson, H. D., Manufacturing Company, Chicago, Ill. Hand-operated sprayers. Serial No. 603,060, Apr. 29. Class 23.

Hudson, J. L., Company, The, Detroit, Mich. Children's towels. Serial No. 622,938, Apr. 29. Class 42.

Huga S. A., La Chaux-De-Fonds, Switzerland. Time pieces. Serial No. 617,032, Apr. 29. Class 27.

Huntington Laboratories, Inc., Huntington, Ind. Slip retardant floor polish. Serial No. 601,357. Class 4.

Industrial Container Corporation, Brooklyn, N. Y. Cartons and boxes. Serial No. 587,035, Apr. 29. Class 2.

Industrial Oil Products Corporation of Philadelphia, Philadelphia, Pa. Processed oils. Serial No. 608,605, Apr. 29. Class 16.

Ingling, Carl R., Frederick, Md. Ocean salt crystals. Serial No. 601,391, Apr. 29. Class 46.

Iron City Chemical Company, Evans City, Pa. Triethylene glycol. Serial No. 604,480, Apr. 29. Class 6.

Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif. Vitamin preparations. Serial No. 616,825, Apr. 29. Class 18.

Jiffy Products, Plainfield, N. J. Baby's plastic trainer seats, toilet seats. Serial No. 589,976, Apr. 29. Class 13.

John-Frederics, Inc., New York, N. Y. Women's hats. Serial No. 618,744, Apr. 29. Class 39.

Johns-Manville Corporation, New York, N. Y. Bituminous enamels and bituminous paints; bituminous waterproofing and damp proofing coatings; etc. Serial No. 590,441, Apr. 29. Class 16.

Johnson, Matthey & Company Limited, Lndon, England. Metallic compounds and solutions thereof. Serial No. 614,878, Apr. 29. Class 6.

Jordan Marsh Company, Boston, Mass. Men's suits. Serial No. 577,485, Apr. 29. Class 39.

Julian & Kokenge Company, The, Columbus, Ohio. Men's, women's, and children's shoes. Serial No. 616,232, Apr. 29. Class 39.

Julianna Lingerie, Inc., New York, N. Y. Women's and misses' lingerie. Serial No. 599,767, Apr. 29. Class 39.

Kelco Company, San Diego, Calif. Alginic acid. Serial No. 618,801, Apr. 29. Class 6.

Kelly, George E., Pittsburgh, Pa. Girls' dresses, sweaters, skirts, etc. Serial No. 618,044, Apr. 29. Class 39.

Kem Manufacturing Co., Inc., Fair Lawn, N. J. Diaphragms for fuel and vacuum automotive pumps. Serial No. 605,859, Apr. 29. Class 35.

Koh-I-Noor Pencil Factory L & C. Hardtmuth, National Corporation, Ceske Budejovice, Czechoslovakia. All kinds of pencils. Serial No. 619,885, Apr. 29. Class 37.

Kraft Foods Company, Chicago, Ill. Cheese and French dressing. Serial No. 617,716, Apr. 29. Class 46.

L & B Products Corporation, New York, N. Y. Stools, tables and costumers. Serial Nos. 559,026–9, Apr. 29. Class 32.

Lampl Fashions, Inc., Cleveland, Ohio. Women's sweaters, skirts, two-piece suits, etc. Serial No. 612,205, Apr. 29. Class 39.

Lansaw, Howard B., doing business as The Deluxe Manufacturing Company, Huntington, W. Va. Children's rocking chairs. Serial No. 612,744, Apr. 29 Class 32.

La Pryor Milling Co., assignor to La Pryor Milling Co., La Pryor, Tex. Dietary mineral supplement. Serial No. 609,407, Apr. 29. Class 18.

Lead Alloy Products Co., Detroit, Mich. Gaskets. Serial No. 564,204, Apr. 29. Class 35.

Lee & Cady, Detroit, Mich. Coffee. Serial No. 620,315, Apr. 29. Class 46.

Lehon Company, The, Chicago, Ill. Barometers, thermometers, slides and films. Serial Nos. 520,736–7, Apr. 29. Class 26.

Leslie, Caryl, Creations, Philadelphia, Pa. Garter belts. Serial No. 608,422, Apr. 29. Class 39.

Levitt, Daniel, New York, N. Y. Ladies' and misses' girdles, foundation garments, garter belts, etc. Serial Nos. 617,799–800, Apr 29. Class 39.

Lipits, Benjamin, Co., Philadelphia, Pa. Canned tomatoes, canned sauerkraut, and pickles. Serial No. 609,303, Apr. 29. Class 46.

Loudonville Milling Company, The, Loudonville, Ohio, assignor to Standard Milling Company, Chicago, Ill. Wheat flour. Serial No. 532,724, Apr. 29 Class 46.

Lowther, Claude W., Cincinnati, Ohio. Blackboards. Serial No. 600,900, Apr. 29. Class 50.

Lynch, W. J., Paint & Varnish Co., Inc., East Providence, R. I. Exterior and interior house paints, exterior house paint primers, finishes, etc. Serial No. 605,166, Apr. 29. Class 16.

Macy, R. H., & Co., Inc., New York, N. Y. Domestic television receiving sets. Serial No. 616,431, Apr. 29 Class 21.

Manbeck and Kissinger, Fredericksburg, Pa. Dressed whole and cut-up poultry and fresh eggs. Serial No. 620,923, Apr. 29. Class 46.

Marc G. Company, Long Beach, N. Y. Filters. Serial No 607,133, Apr. 29. Class 31.

Marine Oil Refiners of Africa Limited, Simonstown, South Africa. Vitamin A concentrates. Serial No. 598,486, Apr. 29. Class 18.

Master Mechanics Co., The, Cleveland, Ohio. Phenolic formaldehyde tung oil paint enamel. Serial No. 514,965, Apr. 29. Class 16.

May & Baker Limited, Dagenham, Essex, England. Chemical photographic developers Serial No. 616,771, Apr. 29. Class 6.

May Department Stores Company, The, St. Louis, Mo. Men's, young men's, and boys' suits, jackets, slacks, etc. Serial No. 618,548, Apr. 29. Class 39.

McNaught Syndicate, Inc., The, New York, N. Y. Daily and Sunday comic strip. Serial No. 618,399, Apr. 29. Class 38.

Meadowbrook of California: *See*—
Simon Millinery Co.

Meis, Chas., Shoe Manufacturing Company, The, Cincinnati, Ohio. Ladies' shoes. Serial No. 600,545, Apr. 29. Class 39.

Mercantile Stores Company, Inc., Wilmington, Del. Ladies' blouses. Serial No. 535,983, Apr. 29. Class 39.

Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Men's, women's and children's hats and hat bodies. Serial No. 507,332, Apr. 29. Class 39.

Meyer, Joseph H., Bros., Brooklyn, N. Y. Pearl jewelry. Serial Nos. 617,091–2, Apr. 29. Class 28.

Mid-West Producers' Creameries, Inc., South Bend, Ind. Creamed cottage cheese, colby type cheese, cheddar cheese, etc. Serial No. 617,302, Apr. 29. Class 46.

Miles Shoes Incorporated, New York, N. Y. Women's and children's shoes, slippers and boots. Serial No. 616,044, Apr. 29. Class 39.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Chemical composition. Serial No. 616,774, Apr. 29. Class 6.

Minor, P. W., & Son, Inc., Batavia, N. Y. Shoes. Serial No. 618,595, Apr. 29. Class 39.

Modern Builders, Inc., Missoula, Mont. Combination fence gates and mechanically operated ramps therefor. Serial No. 601,365, Apr. 29. Class 13.

Monsanto Chemical Company, St. Louis, Mo. Saccharin soluble and insoluble. Serial No. 548,171, Apr. 29. Class 6.

Montres Nova Biedermann Freres S. A., La Neuveville (Berne) Switzerland. Watches, parts of watches and watch cases. Serial No. 613,692, Apr. 29. Class 27.

Nachi-Cocom Cordage Corp. S. A., Merida, Yucatan, Mexico. Sisal goods. Serial No. 608,942, Apr. 29. Class 7.

National Appliance Trade-In Guide Company, Madison, Wis. Periodical publication. Serial No. 618,596, Apr. 29. Class 38.

National Automotive Parts Association, Detroit, Mich. Automobile paints, varnishes, lacquers, etc. Serial No. 576,275, Apr. 29. Class 16.

National Pressure Cooker Company, Eau Claire, Wis. Electric hand pressing irons and steam electric hand pressing irons. Serial No. 573,193, Apr. 29. Class 21.

Nestle's Chocolate Company, Inc., New York, N. Y. Prepared edible chocolate. Serial Nos. 618,002–3, Apr. 29. Class 46.

New Braunfels Textile Mills, New Braunfels, Tex. Piece goods. Serial No. 622,503, Apr. 29. Class 42.

New Iberia Canning Co., Inc., New Iberia, La. Canned vegetables. Serial No. 570,984, Apr. 29. Class 46.

Nopco Chemical Company, Harrison, N. J. Dry vitamin-containing products. Serial No. 602,048, Apr. 29. Class 18.

Nopco Chemical Company, Harrison, N. J. Fat-soluble vitamin concentrates. Serial No. 602,625. Apr. 29. Class 18.

Nowotny-Burrell & Co., San Antonio, Tex. Moccasins and cowgirl suits. Serial No. 612,970, Apr. 29. Class 39.

Oakley, Annie, Enterprises, assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif. Women's and girls' hats, jeans, handkerchiefs and scarves. Serial No. 611,910, Apr. 29. Class 39.

Oakley, Annie, Enterprises, Inc.: *See*—
Oakley, Annie, Enterprises.

Orient Express Incorporated, assignor to J. F. Paulucci, Duluth, Minn. Transportation of freight by motor truck. Serial No. 608,431, Apr. 29. Class 105.

Outboard, Marine & Manufacturing Company, Waukegan, Ill. Internal-combustion-engine-powered outboard motors and parts. Serial No. 598,541, Apr. 29. Class 23.

Owens, M. J., doing business as United Wire Products Company, Ft. Worth, Tex. Electrically operated circulating type fans. Serial No. 580,028, Apr. 29. Class 21.

Oxo, Limited, London, England. Extract of beef. Serial No. 611,803, Apr. 29. Class 46.

Pace-Maker, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 622,351, Apr. 29. Class 42.

Pacific Tire & Rubber Company, Oakland, Calif. Pneumatic tires, camelback, and tire tread capping material. Serial No. 618,506, Apr. 29. Class 35.

Panser Packing Co. Inc., Baltimore, Md. Pickles, chili sauce, sandwich spread, etc. Serial No. 620,227, Apr. 29. Class 46.

Paramount Shoe Manufacturing Company, St. Louis, Mo. Shoes. Serial No. 602,709, Apr. 29. Class 39.

Parco Mfg., Inc., Providence, R. I. Real and costume jewelry and jewelers findings. Serial No. 606,804, Apr. 29. Class 28.

Parke, Davis & Company, Detroit, Mich. Clostridium-chauvei-septicus bacterin. Serial No. 581,681, Apr. 29. Class 18.

Patterson-Sargent Company, The, Cleveland, Ohio. Ready-mixed paints. Serial No. 600,693, Apr. 29. Class 16.

Paulucci, Jeno F.: *See*—
Orient Express Incorporated.

Pedro Pinto, Guatemala Coffee Grower, Carmel, Calif. Coffee. Serial No. 612,134, Apr. 29. Class 46.

Peters & Russell, Inc., Springfield, Ohio. Exhaust deflectors. Serial No. 618,813, Apr. 29. Class 23.

Petroleum Maintenance Company, Wilmington, Calif. Construction, maintenance and repair services. Serial No. 594,145, Apr. 29. Class 103.

Phillips Chemical Company: *See*—
Phillips Petroleum Company.

Phillips Petroleum Company, assignor to Phillips Chemical Company, Bartlesville, Okla. Carbon compounding material. Serial No. 550,942, Apr. 29. Class 6.

Pincus Bros. Incorporated, Philadelphia, Pa. Men's and boys' suits, topcoats, reefers, etc. Serial No. 618,179, Apr. 29. Class 39.

Precision Steel Warehouse, Incorporated, Chicago, Ill. Cold rolled shim steel, cold rolled strip steel, cold rolled annealed spring steel, etc. Serial No. 606,486, Apr. 29. Class 14.

Price Battery Corporation, doing business under the name Witherbee Storage Battery Co., Hamburg, Pa. Storage batteries. Serial No. 619,104, Apr. 29. Class 21.

Prints-Biederman Company, The, Cleveland, Ohio. Women's and misses' coats and suits. Serial No. 611,658, Apr. 29. Class 39.

Ramsey Sportwear Co., Inc., New York, N. Y. Detachable panties or bloomers for women's and children's playsuits and dresses. Serial No. 571,092, Apr. 29. Class 39.

Randles Manufacturing Company: *See*—
Randles, Merritt E.

Randles, Merritt E., doing business under the name of Randles Manufacturing Company, Ogdensburg, N. Y. Men's washable shirts, pants, overalls, etc. Serial No. 584,640, Apr. 29. Class 39.

Rayco Mfg. Co., Paterson, N. J. Automobile seat covers. Serial No. 608,220, Apr. 29. Class 19.

Rayfel Hosiery Mills, Inc., Phoenixville, Pa. Women's and girls' hosiery. Serial No. 612,507, Apr. 29. Class 39.

Red-ee Foods, Inc., Los Angeles, Calif., now by change of name Cinch Products Inc. Hot cake mix, corn bread mix, waffle mix, etc. Serial No. 504,865, Apr. 29. Class 46.

Republic Van and Storage Co., Inc., Los Angeles, Calif. Transportation by truck of household goods. Serial No. 606,325, Apr. 29. Class 105.

Ritter Company, Inc., Rochester, N. Y. Stools. Serial No. 619,364, Apr. 29. Class 32.

Robinson Aviation, Inc., Teterboro, N. J. Shock and vibration absorbing mounts. Serial No. 619,260, Apr. 29. Class 23.

Roebling's, John A., Sons Company, Trenton, N. J. Slings for lifting various kinds of loads. Serial No. 600,145, Apr. 29. Class 7.

Ronjo Products Corporation, New York, N. Y. Medicated talcum powder, face powder, make-up powder, etc. Serial No. 580,149, Apr. 29. Class 51.

Rosenfeld, Henry, Inc., New York, N. Y. Women's dresses, shorts, halters, etc. Serial No. 606,951, Apr. 29. Class 39.

Rothschild, Maurice L., & Company, Chicago, Ill. Ladies' and men's wearing apparel. Serial Nos. 615,609–10, Apr. 29. Class 39.

S and B Millinery Company, Toledo, Ohio. Women's millinery. Serial No. 551,315, Apr. 29. Class 39.

Salvage, Louis H., Boston, Mass. Women's shoes. Serial No. 564,292, Apr. 29. Class 39.

Schenley Laboratories, Inc., New York, N. Y. Pharmaceutical product. Serial No. 601,381, Apr. 29. Class 18.

Schloss Bros. & Co. Inc., Baltimore, Md. Men's and young men's suits. Serial No. 535,882, Apr. 29. Class 39.

Schoen, Pieter, & Zonn N. V., Zaandam, Kingdom of the Netherlands. Oil paints, plastic paints, oils, etc. Serial No. 613,281, Apr. 29. Class 16.

Schoeneman, J., Inc., Baltimore, Md. Coats, vests, trousers, etc. Serial No. 618,373, Apr. 29. Class 39.

Sebago-Moc Company, Westbrook, Maine. Shoes. Serial No. 593,190, Apr. 29. Class 39.

Sherwin-Williams Company, The, Cleveland, Ohio. Paints, paint enamels, varnishes, etc. Serial No. 612,668, Apr. 29. Class 16.

Shlansky, Philip, & Sons, Inc., New York, N. Y. Ladies' and misses' coats, suits, jackets and outer skirts. Serial No. 619,036, Apr. 29. Class 39.

Shoe Corporation of America, Columbus, Ohio. Imitation crepe soles. Serial No. 618,987, Apr. 29. Class 39.

Simon Millinery Co., also doing business as Meadowbrook of California, San Francisco, Calif. Ladies' hats. Serial No. 616,572, Apr. 29. Class 39.

Simonis Company, The, Chicago, Ill. Liquid material including wax. Serial No. 608,957, Apr. 29. Class 4.

Simpson, Wm., Sons & Co., Philadelphia, Pa. Cotton fabrics and rayon fabrics. Serial No. 598,613, Apr. 29. Class 42.

Skinner, William, & Sons, Holyoke, Mass, and New York, N. Y. Men's, women's, misses' and children's caps, hats, sport coats, etc. Serial No. 617,318, Apr. 29. Class 39.

Skyland Food Corporation, Denver, Colo. Canned apples. Serial No. 620,173, Apr. 29. Class 46.

Small-Abbott Co., Inc., Freeport, Maine. Moccasins, shoes, and hunting boots. Serial No. 618,556, Apr. 29. Class 39.

Smith, A. O., Corporation, Milwaukee, Wis. Fluid expansive thermal responsive regulators. Serial No. 585,249, Apr. 29. Class 26.

Smith, J. P., Shoe Company, Chicago, Ill. Shoes. Serial No. 603,551, Apr. 29. Class 39.

South China Tea Corporation Limited, The, Hong Kong, Hong Kong. Tea. Serial No. 619,589, Apr. 29. Class 46.

Southern Agricultural Insecticides, Inc., Palmetto, Fla., and Hendersonville, N. C. Insecticides. Serial No. 619,724, Apr. 29. Class 6.

Spaulding-Moss Company, Boston, Mass. Ammonium hydroxide developer. Serial No. 610,594, Apr. 29. Class 6.

Spiegel, Inc., Chicago, Ill. Soles for men's and women's shoes. Serial No. 619,149, Apr. 29. Class 39.

Spinnerin Yarn Co., Inc., South Hackensack, N. J. Sweaters and knitted outerwear. Serial No. 619,551, Apr. 29. Class 39.

Sport-Craft, Inc., New York, N. Y. Ladies' and misses' dresses, dress ensembles, blouses, etc. Serial No. 584,552, Apr. 29. Class 39.

Spratling, William, Texco, Gro., Mexico. Jewelry. Serial No. 611,121, Apr. 29. Class 28.

Spreckels Sugar Company, San Francisco, Calif. Sugar. Serial No. 579,144, Apr. 29. Class 46.

Squibb, E. R., & Sons, New York, N. Y. Muscle relaxants. Serial No. 599,028, Apr. 29. Class 18.

Staley Milling Company, North Kansas City, Mo. Hog feed supplement. Serial Nos. 617,974–5, Apr. 29. Class 46.

Stamats Publishing Company, Cedar Rapids, Iowa. Publication. Serial No. 619,855, Apr. 29. Class 38.

Standard Milling Company: *See*—
Loudonville Milling Company, The.

Standard Milling Company, Chicago, Ill. Flour mix. Serial No. 622,418, Apr. 29. Class 46.

Stegle, Helen E., Elsa, Tex. Fresh citrus fruits. Serial No. 566,050, Apr. 29. Class 46.

Sterling Engine Company, Buffalo, N. Y. Internal combustion engines. Serial No. 468,855, Apr. 29. Class 23.

Sterol Derivatives, Inc., Los Angeles, Calif. Butter flavorings. Serial No. 619,270, Apr. 29. Class 46.

Storch, Max H., New York, N. Y. Baby forks, knives, cups, etc. Serial No. 608,898, Apr. 29. Class 28.

Structural Clay Products Research Foundation, Chicago, Ill. Research and development in new products. Serial No. 618,407, Apr. 29. Class 100.

Sumner Hosiery Mill, Gastonia, N. C. Lady's hosiery. Serial No. 619,592, Apr. 29. Class 39.

Sundstrand Machine Tool Co., Rockford, Ill. Engineering advisory services. Serial No. 594,867, Apr. 29. Class 100.

Sun'n Sand Hotel Courts, Inc., Daytona Beach, Fla. Providing lodgings in a motor court. Serial No. 606,244, Apr. 29. Class 100.

Sunwest Fashions Company: *See*—
Banks, James N.

Swartwout Company, The, Cleveland, Ohio. Feed water heaters, gravity and powered roof ventilators, etc. Serial No. 621,232, Apr. 29. Class 34.

Tennessee Packers, Inc., Clarksville, Tenn. Lard; salami; bologna; etc. Serial No. 616,574, Apr. 29. Class 46.

Texas Lawn Sprinkler System, Inc., Dallas, Tex. Water valves, electric controls. Serial No. 555,971, Apr. 29. Class 26.

Tex Tan of Yoakum, Dewitt County and Yoakum, Tex. Billfolds. Serial No. 609,668, Apr. 29. Class 3.

Thaw Corporation, Chicago, and Villa Park, Ill. Antifreeze solutions and anti-freeze compounds. Serial Nos. 601,289–90, Apr. 29. Class 6.

Thaw Corporation, Chicago, and Villa Park, Ill. Antifreeze solutions and anti-freeze compounds. Serial Nos. 605,076–7, Apr. 29. Class 6.

Trego, Inc., Boston and South Boston, Mass. Electric cable fittings. Serial No. 618,947, Apr. 29. Class 21.

Tri-Valley Packing Association, San Francisco, Calif. Canned fruits and canned vegetables. Serial No. 589,995, Apr. 29. Class 46.

U. S. Handbag Corporation, New York, N. Y. Ladies' handbags, wallets and travelling cases. Serial No. 618,767, Apr. 29. Class 3.

United Wallpaper, Inc., Chicago, Ill. Liquid cartons. Serial No. 610,724, Apr. 29. Class 2.

United Wire Products Company: *See*—
Owens, M. J.

Universal Packing & Gasket Company, Houston, Tex. Outside liner packing for slush pumps, split gum rubber seal rings, O-rings for oil production tools, etc. Serial No. 615,807, Apr. 29. Class 35.

Upjohn Company, The, Kalamazoo, Mich. Lipotropic preparation. Serial No. 617,823, Apr. 29. Class 18.

Upjohn Company, The, Kalamazoo, Mich. Lipotropic preparation. Serial No. 617,825, Apr. 29. Class 18.

Utilitron Incorporated, Hoboken, N. J. Men's, women's and children's combination slippers and socks. Serial No. 616,396, Apr. 29. Class 39.

Valier & Spies Milling Company: *See*—
Flour Mills of America, Inc.

Viscol Company, The, Bridgeport, Conn. Liquid compound for treating shoe soles. Serial No. 609,011, Apr. 29. Class 6.

Vista Manufacturing Company, New York, N. Y. Men's sport shirts, jackets, pajamas, etc. Serial No. 615,360, Apr. 29. Class 39.

Wapato Packing: *See*—
Hallauer, Walter A.

Warren Woolen Company, The, Stafford Springs, Conn. All wool fleece finished fabric. Serial No. 622,472, Apr. 29. Class 42.

Weberei Wallenstadt, Wallenstadt, Switzerland. Fabrics in the piece. Serial Nos. 598,284–5, Apr. 29. Class 42.

West Virginia Pulp and Paper Company, New York, N. Y. Book and printing papers. Serial No. 559,394, Apr. 29. Class 37.

Whitmire Research Laboratories, Inc., St. Louis, Mo. Preparation for the control of head lice and their nits. Serial No. 584,032, Apr. 29. Class 18.

Wian, Robert C., Enterprises, Inc., Glendale, Calif. Hamburger sandwiches. Serial No. 590,293, Apr. 29. Class 46.

Winkler, Harry C., doing business as The Historical Association, Willoughby, Ohio. Registration of antiques, heirlooms and collectables, etc. Serial No. 601,969, Apr. 29. Class 100.

Witherbee Storage Battery Co.: *See*—
Price Battery Corporation.

Woodward, Harry, Portland, Oreg. Fired chicken and dressed chicken. Serial No. 581,227, Apr. 29. Class 46.

Wunsch, Julius A., doing business under the name The Cu-Lin Company, New York, N. Y. Seasonings. Serial Nos. 594,366–7, Apr. 29. Class 46.

Wynlit Pharmaceuticals, Inc., New York, N. Y. Pharmaceuticals. Serial No. 598,403, Apr. 29. Class 18.

Yieldmor Feeds, Incorporated, Piqua, Ohio. Dairy feeds. Serial No. 575,559, Apr. 29. Class 46.

Zoo-Mac, Incorporated, St. Louis, Mo. Macaroni products. Serial No. 610,813, Apr. 29. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Abco, Inc., McKeesport, Pa., formerly Apter Bros. & Co., Inc. Floor dressing compositions. 558,289, Apr. 29; Serial No. 610,159, published Jan. 29, 1952. Class 16.

Acteen Pest Control Services: *See*—
Corson, E. O.

Adams Equipment Co.: *See*—
Adams, Harold B.

Adams, Harold B., doing business as Adams Equipment Co., Carthage, Mo. Post hole digger for attachment to tractors. 558,374, Apr. 29; Serial No. 507,609, Class 23.

Adams, William, Ltd., Hockley, Birmingham, to William Adams Ltd., Birmingham, England. Waiters, entree dishes, teasets, etc. 290,436, renewed Jan. 5, 1952. O. G. Apr. 29. Class 13.

Aetna-Standard Engineering Company, The, Youngstown, Ohio. Machines for weighing and sorting sheet material, etc. 558,296, Apr. 29; Serial No. 612,642, published Dec. 18, 1951. Class 26.

Air Reduction Company, Incorporated: *See*—
Air Reduction Sales Company.

Air Reduction Sales Company to Air Reduction Company, Incorporated, New York, N. Y. Welding rods. 291,059, renewed Jan. 26, 1952. O. G. Apr. 29. Class 14.

All Metal Products Company, Wyandotte, Mich. Popguns, air rifles, toy airplanes, etc. 286,966, renewed Sept. 8, 1951. O. G. Apr. 29. Class 22.

Alpha Metals, Inc., Brooklyn, N. Y. Solder. 558,345, Apr. 29; Serial No. 614,922, published Jan. 22, 1952. Class 14.

Alumatic Corporation of America, Milwaukee, Wis. Aluminum windows. 558,226, Apr. 29; Serial No. 591,392, published Jan. 15, 1952. Class 12.

Aluminex Incorporated, assignee: *See*—
Williams & Williams Limited.

Aluminum Industries, Inc., Cincinnati, Ohio. Ready mixed paints. 290,876, renewed Jan. 19, 1952. O. G. Apr. 29. Class 16.

American Alcolac Corporation, New York, N. Y. Soaps and detergents. 558,241, Apr. 29; Serial No. 596,967, published Jan. 22, 1952. Class 52.

American Cable Company, Inc., New York, N. Y., and Bridgeport, Conn., to American Chain & Cable Company, Inc., Bridgeport, Conn. Devices of flexible reciprocating shaft type for transmitting power for operating brakes. 288,067, renewed Oct. 20, 1951. O. G. Apr. 29. Class 19.

American Chain & Cable Company, Inc.: *See*—
American Cable Company, Inc.
Page Steel and Wire Company.

American Cyanamid Company, New York, N. Y. Thread and yarn. 558,354, Apr. 29; Serial No. 616,071, published Feb. 5, 1952. Class 43.

American Cyanamid Company, New York, N. Y. Thread and yarn. 558,355, Apr. 29; Serial No. 616,074, published Feb. 5, 1952. Class 43.

American Fabrics Company, The, Bridgeport, Conn. Embroidered, printed or lace-trimmed goods. 558,239, Apr. 29; Serial No. 595,928, published July 3, 1951. Class 42.

American Lubricants Company, The, doing business as Tiffany Asphalt and Grease Works, Dayton, Ohio. Asbestos fibre roof coating and plastic asbestos roof cement. 558,194, Apr. 29; Serial No. 561,545, published Jan. 15, 1952. Class 12.

American Thermos Bottle Company, The, Norwich, Conn. Vacuum bottles. 294,369, renewed May 24, 1952. O. G. Apr. 29. Class 2.

Answer Man, The, New York, N. Y. General advertising services. 558,365, Apr. 29; Serial No. 540,693, published Feb. 5, 1952. Class 101.

Apter Bros. & Co., Inc.: *See*—
Abco, Inc.

Aqua Glide Company, assignor to M. A. Pichel, La Canada, Calif. Paddle boards and kick boards. 558,258, Apr. 29; Serial No. 601,865, published Feb. 12, 1952. Class 22.

Armour and Company, Chicago, Ill. Coated abrasive products. 558,212, Apr. 29; Serial No. 577,927, published Jan. 22, 1952. Class 4.

Armour and Company, doing business as Memphis Packing Co., Chicago, Ill. Fresh eggs, ham, bacon and sausage. 558,376, Apr. 29; Serial No. 543,866. Class 46.

Armstrong Cork Company: *See*—
Armstrong Cork Products Company.

Armstrong Cork Products Company, by Armstrong Cork Company, Lancaster, Pa. Linoleum and similar hard surfaced floor coverings. 342,000, Dec. 29, 1936. Republished Apr. 29. Class 20.

Atlantic Specialties: *See*—
Mercer, William G.

Atlantic Steel Company, Atlanta, Ga. Metal angles and bars and metal bands, bevelled bars, etc. 558,357, Apr. 29; Serial No. 616,273, published Jan. 22, 1952. Class 14.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Acid and alkali resistant synthetic resin base coating preparation, and solvent therefor. 558,218, Apr. 29; Serial No. 580,180, published Feb. 12, 1952. Class 16.

Atlas Mineral Products Company of Pennsylvania, The, Mertztown, Pa. Corrosion resistant cement. 558,344, Apr. 29; Serial No. 614,806, published Jan. 29, 1952. Class 12.

Attorney General of the United States, vested in: *See*—
Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft.

Avery Salt Company, Avery Island, La., to International Salt Company, Scranton, Pa. Salt. 292,781, renewed Mar. 29, 1952. O. G. Apr. 29. Class 46.

B. B. Crystal Corp.: *See*—
Brozen Bros. Watch Crystal Co. Inc.

Bachelors of Music, The, Chicago, Ill. Musical entertainment. 558,369, Apr. 29; Serial No. 598,122, published Feb. 5, 1952. Class 107.

Baird, William M., Chicago, Ill. Refrigerated locker units. 558,181, Apr. 29; Serial No. 528,245, published Aug. 10, 1948. Class 31.

Barbour Company, The, St. Louis, Mo. Lacquer. 558,251, Apr. 29; Serial No. 600,320, published Dec. 25, 1951. Class 16.

Barricini Inc., New York and Long Island City, N. Y. Candy. 558,198, Apr. 29; Serial No. 566,116, published Dec. 4, 1951. Class 46.

Bartmann & Bixer, Inc., New York, N. Y. Window curtains. 558,341–2, Apr. 29; Serial Nos. 614,533–4, published Feb. 5, 1952. Class 42.

Becker, Henry, & Son, Inc., Roseland, N. J. Milk, cream, butter, etc. 293,844, renewed May 10, 1952. O. G. Apr. 29. Class 46.

Beddow, B., and Sons Limited, doing business as Propert's, to Propert Limited, London, England. Leather and saddle soap. 292,456, renewed Mar. 15, 1952. O. G. Apr. 29. Class 52.

Benson Fish Company, Chicago, Ill. Canned salmon and shrimp. 294,427, renewed May 24, 1952. O. G. Apr. 29. Class 46.

Bernat, Emile, & Sons Company, Jamaica Plain, Mass. Knitting yarn. 558,325, Apr. 29; Serial No. 613,495, published Feb. 5, 1952. Class 43.

Bigelow-Sanford Carpet Company, Inc., doing business under the name and style Universal Rugs and Carpets, Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y. Textile rugs. 558,331–2, Apr. 29; Serial Nos. 613,968–9, published Feb. 5, 1952. Class 42.

Bilhuber, E., Inc., Orange, N. J. Chemical compound which is useful as an anti-asthmatic. 558,240, Apr. 29; Serial No. 596,709, published Dec. 25, 1951. Class 18.

Binney & Smith Company, New York, N. Y. Modeling clay. 558,249, Apr. 29; Serial No. 599,147, published Jan. 22, 1952. Class 1.

Bogdon, Walter J., doing business as Bogdon's Candy Company, Joplin, Mo. Candies. 558,383, Apr. 29; Serial No. 584,793. Class 46.

Bogdon's Candy Company: *See*—
Bogdon, Walter J.

Boyle-Midway Inc.: *See*—
Midway Chemical Company.

Brantford Industries Limited, Brantford, Ontario, Canada. Floor polishing wax. 558,266, Apr. 29; Serial No. 603,338, published Feb. 5, 1952. Class 4.

Bristol Laboratories Inc., Syracuse, N. Y. Animal feed supplement. 558,329, Apr. 29; Serial No. 613,704, published Dec. 25, 1951. Class 18.

Brown, R. J., Company, The, St. Louis, Mo. Naphtha. 558,211, Apr. 29; Serial No. 576,900, published Dec. 25, 1951. Class 6.

Brozen Bros. Watch Crystal Co. Inc., to B. B. Crystal Corp., New York, N. Y. Watch crystals. 293,804, renewed May 3, 1952. O. G. Apr. 29. Class 33.

Bruder, M. A., & Sons, Incorporated, Philadelphia, Pa. Industrial paint finish. 558,264, Apr. 29; Serial No. 603,044, published Jan. 1, 1952. Class 16.

Buegeleisen & Jacobson, Inc., New York, N. Y. Accordions. 558,272, Apr. 29; Serial No. 606,263, published Feb. 12, 1952. Class 36.

Burlington Mills Corporation, Greensboro, N. C. Textile fabrics in the piece. 558,364, Apr. 29; Serial No. 618,480, published Feb. 5, 1952. Class 42.

Burton-Dixie Corporation: *See*—
Dixie Cotton Felt Mattress Company.
Rome Company, Inc., The.

Burton-Dixie Corporation, to Burton-Dixie Corporation, Chicago, Ill. Padding for seat cushions and mattresses. 291,466, renewed Feb. 9, 1952. O. G. Apr. 29. Class 32.

Burton-Dixie Corporation, to Burton-Dixie Corporation, Chicago, Ill. Mattresses, bed-springs, mattress pads, etc. 292,811, renewed Mar. 29, 1952. O. G. Apr. 29. Class 32.

Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft, Berlin, Germany, vested in Attorney General of the United States, Washington, D. C. Medicinal preparations. 291,398, renewed Feb. 9, 1952. O. G. Apr. 29. Class 18.

California Fruit Products Co. Inc., New York, N. Y., by Ben R. Goltsman & Co., Montgomery, Ala. Wines. 331,947, Jan. 28, 1936. Republished Apr. 29. Class 47.

Calissi, Paul C., doing business as Calpa Products Company, Philadelphia, Pa. Portable electric floor and table lamps. 558,391, Apr. 29; Serial No. 600,117. Class 21.

Calpa Products Company: *See*—
Calissi, Paul C.

Can-Rite Food Products Company, Modesto, Calif. Canned vegetables. 558,382, Apr. 29; Serial No. 583,142. Class 46.

Carafiol, Alex, Inc., St. Louis, Mo. Women's, misses', and junior misses' dresses, frocks, and blouses. 558,184, Apr. 29; Serial No. 534,997, published Oct. 9, 1951. Class 39.

Certain-teed Products Corporation, Ardmore, Pa. Sheathing material. 558,259, Apr. 29; Serial No. 602,020, published Jan. 15, 1952. Class 12.

Chamberlain Cartridge & Target Co., The, Cleveland, Ohio, to Remington Arms Company, Inc., Bridgeport, Conn. Clay pigeons. 292,568, renewed Mar. 15, 1952. O. G. Apr. 29. Class 22.

Chloride Electrical Storage Company Limited, The: *See*—
Electric Storage Battery Company, The.

Coburn, W. E.: *See*—
Coburn, William E.

Coburn, William E., also doing business as W. E. Coburn, Inglewood, Calif. Automobile wax and glaze. 558,386, Apr. 29; Serial No. 594,362. Class 4.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Soap. 558,201, Apr. 29; Serial No. 568,098, published Sept. 27, 1949. Class 52.

Colm, Jack, doing business as Fitsrite Products Co., New York, N. Y. Leather wrist bands, elastic wrist bands, anklets, etc., used for therapeutic purposes. 558,191, Apr. 29; Serial No. 557,115, published Jan. 22, 1952. Class 44.

Commercial Solvents Corporation, New York, N. Y. Compositions comprising the antibiotics neomycin and bacitracin. 558,262, Apr. 29; Serial No. 602,496, published Dec. 25, 1951. Class 18.

Consolidated Grocers Corporation: *See*—
Lee, H. D., Mercantile Co., The.

Corson, E. O., doing business as Acteen Pest Control Services, Berkeley, Calif. Insecticides. 293,916, renewed May 10, 1952. O. G. Apr. 29. Class 6.

Dagmar Chemical Company, Stamford, by The Dagmar Chemical Company, Incorporated, Springdale, Conn. Paints and lacquers. 414,280, June 5, 1945. Republished Apr. 29. Class 16.

Dagmar Chemical Company, Incorporated, The: *See*—
Dagmar Chemical Company.

Davis & Geck, Inc., Brooklyn, N. Y. Stainless steel mesh for surgical use. 558,348, Apr. 29; Serial No. 615,373, published Jan. 22, 1952. Class 44.

Decca Records, Inc., New York, N. Y. Phonograph needles. 558,189, Apr. 29; Serial No. 549,057, published Jan. 15, 1952. Class 36.

Delaware, Lackawanna & Western Coal Company, The, New York, N. Y. Electrical temperature control mechanism. 558,203, Apr. 29; Serial No. 571,119, published Dec. 18, 1951. Class 26.

Denaco Agency, The, to Denalan Company, Inc., San Francisco, Calif. Cleaning powder and stain remover for artificial plates and teeth. 294,133, renewed May 17, 1952. O. G. Apr. 29. Class 51.

Denalan Company, Inc.: *See*—
Denaco Agency, The.

Desitin Chemical Co., Providence, R. I. Medical compound. 558,318, Apr. 29; Serial No. 613,292, published Dec. 25, 1951. Class 18.

Diversey Corporation, The, Chicago, Ill. Non-soap detergent. 558,178, Apr. 29; Serial No. 496,070, published Mar. 23, 1948. Class 52.

Diversey Corporation, The, Chicago, Ill. Granular chemical product. 558,179, Apr. 29; Serial No. 513,811, published Jan. 4, 1949. Class 52.

Dixie Cotton Felt Mattress Company, to Burton-Dixie Corporation, Chicago, Ill. Mattresses, bed box springs, and pillows. 85,420, re-renewed Feb. 20, 1952. O. G. Apr. 29. Class 32.

Dow Chemical Company, The, Midland, Mich. Preparation to control the preharvest drop of apples. 558,363, Apr. 29; Serial No. 617,080, published Jan. 29, 1952. Class 6.

Dubied, Edouard, & Cie., Societe Anonyme, Couvet, Neuchatel, Switzerland. Mounting hardware for doors and windows, door and window fixtures, etc. 558,188, Apr. 29; Serial No. 544,982, published Jan. 16, 1951. Class 13.

Duffy, M. B., Company, The: *See*—
Duffy, Martin B.

Duffy, Martin B., doing business as The M. B. Duffy Company, Chicago, Ill. Pore sealers, and flexible finish coating lacquers. 558,210, Apr. 29; Serial No. 576,528, published Dec. 25, 1951. Class 16.

Duluth-Superior Milling Company, Duluth, Minn., to Standard Milling Company, Chicago, Ill. Wheat flour. 87,053, re-renewed June 25, 1952. O. G. Apr. 29. Class 46.

Dupuy, Charles F. J., Allendale, N. J. Sponge having a pocket therein and a cake of soap in said pocket. 558,255, Apr. 29; Serial No. 601,029, published Jan. 22, 1952. Class 52.

Durand & Huguenin A. G., Basel, Switzerland. Dyed piece goods. 291,843, renewed Feb. 23, 1952. O. G. Apr. 29. Class 42.

Eddy & Fisher, Inc., by J. Scheminger, Jr., Providence, R. I. Various whiskies, brandies, rums, etc. 338,468, Sept. 8, 1936. Republished Apr. 29. Class 49.

Edmundson-Duhe Rice Mill Co., Inc., Rayne, La. Milled rice. 558,397, Apr. 29; Serial No. 617,954. Class 46.

Electric Storage Battery Company, The, Philadelphia, Pa., to The Chloride Electrical Storage Company Limited, Clifton Junction, near Manchester, England. Electric dry cell batteries. 293,925, renewed May 10, 1952. O. G. Apr. 29. Class 21.

Electronic Instrument Co., Inc., Brooklyn, N. Y. Electronic test instruments. 558,243, Apr. 29; Serial No. 597,199, published Dec. 18, 1951. Class 26.

Endicott Johnson Corporation, Endicott, N. Y. Boots and shoes. 294,854, renewed June 7, 1952. O. G. Apr. 29. Class 39.

Endicott Johnson Corporation, Endicott, N. Y. Boots and shoes. 295,328, renewed June 28, 1952. O. G. Apr. 29. Class 39.

Enterprise Manufacturing Company, The, Akron, Ohio. Adhesive mending cement. 291,345, renewed Feb. 9, 1952. O. G. Apr. 29. Class 5.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 291,374, renewed Feb. 9, 1952. O. G. Apr. 29. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Dressing for fish lines and dry flies. 291,380, renewed Feb. 9, 1952. O. G. Apr. 29. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Sinkers. 291,381, renewed Feb. 9, 1952. O. G. Apr. 29. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Fish stringers. 291,382, renewed Feb. 9, 1952. O. G. Apr. 29. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishing reels. 291,714, renewed Feb. 23, 1952. O. G. Apr. 29. Class 22.

Enterprise Manufacturing Company, The, Akron, Ohio. Fishline leaders. 291,792, renewed Feb. 23, 1952. O. G. Apr. 29. Class 22.

Eppens, Smith Company, Inc., Long Island City, N. Y. Coffee. 558,394, Apr. 29; Serial No. 604,961. Class 46.

Eureka Vacuum Cleaner Company, Detroit, Mich., by Eureka Williams Corporation, Bloomington, Ill. Vacuum cleaner dust receptacles. 291,887, Feb. 23, 1932. Republished Apr. 29. Class 2.

Eureka Williams Corporation: *See*—
Eureka Vacuum Cleaner Company.

Faber, Eberhard, Pencil Company, Brooklyn, N. Y. Rubber erasers. 558,224, Apr. 29; Serial No. 589,201, published May 22, 1951. Class 37.

Factor, Max, & Co., Los Angeles, Calif. Deodorants. 292,237, renewed Mar. 8, 1952. O. G. Apr. 29. Class 51.

Factor, Max, & Co., Los Angeles, Calif. Powder foundation cream; makeup foundation, face cream used as a powder base, etc. 292,325, renewed Mar. 15, 1952. O. G. Apr. 29. Class 51.

Factor, Max, & Co., Los Angeles, Calif. Powder foundation cream; makeup foundation, a face cream used as a powder base; etc. 292,646, renewed Mar. 22, 1952. O. G. Apr. 29. Class 51.

Fadiman, Edwin, New York, N. Y. Entertainment service. 558,400, Apr. 29; Serial No. 590,359. Class 107.

Fairbanks, Morse & Co., Chicago, Ill. Internal combustion engines. 131,456, May 18, 1920. Republished Apr. 29. Class 23.

Fairbanks, Morse & Co., Chicago, Ill. Laundry washing machines and ironing machines. 352,065, Nov. 16, 1937. Republished Apr. 29. Class 24.

Fairbanks, Morse & Co., Chicago, Ill. Laundry washing machines and ironing machines. 352,246, Nov. 23, 1937. Republished Apr. 29. Class 24.

Fairbanks, Morse & Co., Chicago, Ill. Electric generators, electric motors, domestic lighting plants and magnetos. 410,887, Dec. 26, 1944. Republished Apr. 29. Class 21.

Fairy Silk Mills, Inc., Shillington, Pa. Women's and misses's underwear. 293,637, renewed May 3, 1952. O. G. Apr. 29. Class 39.

Feld, Hyman, New York, N. Y. Woolen piece goods. 558,250, Apr. 29; Serial No. 599,755, published Oct. 16, 1951. Class 42.

Fels and Company, Philadelphia, Pa. Dry detergent. 558,288, Apr. 29; Serial No. 609,719, published Jan. 22, 1952. Class 52.

Ferry-Morse Seed Co., Detroit, Mich. Seeds. 558,330, Apr. 29; Serial No. 613,808, published Jan. 22, 1952. Class 1.

Fitsrite Products Co.: *See*—
Colm, Jack.

Flour Mills of America, Inc., doing business as Kansas Flour Mills Company, Kansas City, Mo. Wheat flour. 558,190, Apr. 29; Serial No. 553,600, published Dec. 11, 1951. Class 46.

Food Cereals, Inc., Chicago, Ill. Roasted barley flour. 558,388, Apr. 29; Serial No. 598,721. Class 46.

Formfit Company, The, Chicago, Ill. Sanitary belts and sanitary panty shields. 558,349, Apr. 29; Serial No. 615,450, published Jan. 22, 1952. Class 44.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 558,320–4, Apr. 29; Serial Nos. 613,442–6, published Feb. 5, 1952. Class 42.

Foy Paint Company, Inc., The, Cincinnati, Ohio. Ready mixed exterior and interior paints, interior and exterior paint, paint enamels, etc. 558,238, Apr. 29; Serial No. 595,539, published Dec. 25, 1951. Class 16.

Franklin Research Company, Philadelphia, Pa. Automobile waxes and glazes, wax polishes, etc. 558,216, Apr. 29; Serial No. 579,589, published Jan. 22, 1952. Class 4.

Franklin Research Company, Philadelphia, Pa. Compositions for cleaning and reconditioning asphalt tile floors, cleaners for surfaces of automobiles, etc. 558,254, Apr. 29; Serial No. 600,475, published Jan. 22, 1952. Class 52.

Fuller, D. B., & Co., Inc., New York, N. Y. Textile fabrics in the piece. 558,334, Apr. 29; Serial No. 614,047, published Feb. 5, 1952. Class 42.

Funwood, Inc., Bedford Village, N. Y. Knitted, netted and textile metalized coated, and uncoated fabrics and plastic film. 558,215, Apr. 29; Serial No. 579,408, published June 19, 1951. Class 42.

Gardner Wire Co., Chicago, to Gardner Wire Co., Cicero, Ill. Weather strips. 291,260, renewed Feb. 2, 1952. O. G. Apr. 29. Class 12.

General Cigar Co., Inc.: *See*—
United Cigar Manufacturers Company.

General Cigar Co., Inc., New York, N. Y. Cigars. 290,939, renewed Jan. 19, 1952. O. G. Apr. 29. Class 17.

General Dyestuff Corporation, New York, N. Y. Dyes and dyestuffs. 287,132, Sept. 15, 1931. Republished Apr. 29. Class 6.

General Mills, Inc., Minneapolis, Minn. Wheat flour. 293,896, renewed May 10, 1952. O. G. Apr. 29. Class 46.

Georgia Cracker Co., Atlanta, Ga. Fancy crackers. 558,379, Apr. 29; Serial No. 570,698. Class 46.

Germain's, Inc., Los Angeles, Calif. Flower seeds. 558,347, Apr. 29; Serial No. 615,214, published Jan. 22, 1952. Class 1.

Geuder, Paeschke & Frey Co., Milwaukee, Wis. Metal products. 558,284, Apr. 29, Serial No. 609,362, published Nov. 6, 1951. Class 13; milk stirrers, shovels, and can crushers, Serial No. 609,663, published Oct. 16, 1951. Class 23; ironing tables and wash tubs, Serial No. 609,364, published Oct. 23, 1951. Class 24; utility measures, Serial No. 609,365, published Dec. 18, 1951. Class 26. (Consolidated certificate, Classes 13, 23, 24, and 26.)

Gland-O-Lac Company, The, Omaha, Nebr. Preparation for the treatment of bronchitis and colds in poultry. 292,827, renewed Mar. 29, 1952. O. G. Apr. 29. Class 18.

Glen Raven Cotton Mills, Inc., Glen Raven, N. C. Awning fabrics. 558,301, Apr. 29; Serial No. 613,063, published Feb. 5, 1952. Class 42.

Glidden Company, The, Cleveland, Ohio. Marine, house, roof, etc., paints, varnishes, lacquers, etc. 558,213, Apr. 29; Serial No. 579,275, published Dec. 25, 1951. Class 16.

Glidden Company, The, Cleveland, Ohio. Marine, house, roof, etc., paints, varnishes, lacquers, etc. 558,214, Apr. 29; Serial No. 579,277, published Dec. 25, 1951. Class 16.

Goltsman, Ben R., & Co.: *See*—
California Fruit Products Co. Inc.

Goodall-Sanford, Inc.: *See*—
Goodall Worsted Co.

Goodall Worsted Co., Sanford, Maine, and New York, N. Y., by Goodall-Sanford, Inc., Sanford, Maine. Woolen piece goods, mohair piece goods, etc. 108,511, Feb. 15, 1916. Republished Apr. 29. Class 42.

Grand Aerie Fraternal Order of Eagles, Kansas City, Mo. Boys' and girls' caps, jackets, sweaters, etc. 558,279, Apr. 29; Serial No. 607,998, published Dec. 25, 1951. Class 39.

Graphic-Gram Communications Service: *See*—
Hodes-Wallach Co. Inc.

Grate, Lorene G., doing business as Lorene Grigsby, Miami, Fla. Lip rouge compositions. 558,277, Apr. 29; Serial No. 607,857, published Dec. 25, 1951. Class 51.

Grigsby, Lorene: *See*—
Grate, Lorene G.

Haloid Company, The, Rochester, N. Y. Leasing of copying machines and equipment. 558,372, Apr. 29; Serial No. 610,557, published Feb. 5, 1952. Class 101.

Hampden Brewing Company, Willimansett, Mass. Ale, mild ale, porter and beer. 355,989, Apr. 5, 1938. Republished Apr. 29. Class 48.

Hampton-Cross Company: *See*—
Lyne, James A.

Hampton, Harry, Jr.: *See*—
Lyne, James A.

Hanovia Chemical and Manufacturing Company, Newark, N. J. Cabinet mounted apparatus for the irradiation of blood plasma and other liquid biologics. 558,230, Apr. 29; Serial No. 592,030, published Jan. 22, 1952. Class 44.

Harris, John I., Nashville, Tenn. Prophylactics. 558,257, Apr. 29; Serial No. 601,729, published Jan. 22, 1952. Class 44.

Harris, Kent, doing business under the name Travelworld, Los Angeles, Calif. Travel services. 558,366, Apr. 29; Serial No. 563,550, published Feb. 5, 1952. Class 105.

Harrower Laboratory, Inc., The, Glendale, Calif., to The Harrower Laboratory, Inc., Jersey City, N. J. Solution of an active principle of the pancreas having influence upon the circulation, etc. 290,743, renewed Jan. 12, 1952. O. G. Apr. 29. Class 18.

Hat Corporation of America: *See*—
Hodshom-Berg, Incorporated.

Heller, B., & Company, Chicago, Ill. Chemical compound composed principally of salt, sugar and various other chemicals used for pickling and curing meats. 558,380, Apr. 29; Serial No. 573,550. Class 46.

Herrero Hermanos S. A., La Coruna, Spain. Canned, pickled, and salted fish. 558,199, Apr. 29; Serial No. 566,586, published Feb. 5, 1952. Class 46.

Hill, A. B., Company, The, Memphis, Tenn. Chemical wetting agent. 558,353, Apr. 29; Serial No. 616,032, published Feb. 5, 1952. Class 6.

Hockaday, Inc., Chicago, Ill. Quick drying enamels, house paint and flat paint. 558,280, Apr. 29; Serial No. 608,003, published Dec. 25, 1951. Class 16.

Hodes-Daniel Co., Inc.: *See*—
Hodes-Wallach Co. Inc.

Hodes-Wallach Co. Inc., doing business as Graphic-Gram Communications Service to Hodes-Daniel Co., Inc., New York, N. Y. Advertising matter. 291,783, renewed Feb. 23, 1952. O. G. Apr. 29. Class 38.

Hodshom-Berg, Incorporated, Norwalk, Conn., and New York, N. Y., to Hat Corporation of America, Norwalk, Conn. Hats for women. 295,496, renewed July 5, 1952. O. G. Apr. 29. Class 39.

Holt Manufacturing Company, Oakland, Calif. Electric floor finishing machines. 558,384, Apr. 29; Serial No. 588,217. Class 21.

Horn, A. C. Company, to Sun Chemical Corporation, Long Island City, N. Y. Decorative coating. 293,483, renewed Apr. 26, 1952. O. G. Apr. 29. Class 16.

Horn, A. C., Company, to Sun Chemical Corporation, Long Island City, N. Y. Decorative waterproof paint. 293,484, renewed Apr. 26, 1952. O. G. Apr. 29. Class 16.

Horn, A. C., Company, to Sun Chemical Corporation, Long Island City, N. Y. Waterproofing compound for walls. 294,001, renewed May 10, 1952. O. G. Apr. 29. Class 12.

Horn, A. C., Company, to Sun Chemical Corporation, Long Island City, N. Y. Metallic hardener. 294,002, renewed May 10, 1952. O. G. Apr. 29. Class 12.

Houbigant, Inc., New York, N. Y. Perfumes, toilet water, face powder, etc. 295,769, renewed July 12, 1952. O. G. Apr. 29. Class 51.

Houbigant, Inc., New York, N. Y. Perfumes, toilet water, face powder, etc. 295,778, renewed July 12, 1952. O. G. Apr. 29. Class 51.

Houbigant, Inc., New York, N. Y. Perfumes, toilet water, face powder, etc. 295,778, renewede July 12, 1952. O. G. Apr. 29. Class 51.

House of Vision-Belgard-Spero, Inc., The, Chicago, Ill. Eyeglasses, optical lenses, spectacle frames, etc. 430,936, July 1, 1947. Republished Apr. 29. Class 26.

House of Vision-Belgard-Spero, Inc., The, Chicago, Ill. Contact lenses. 442,009, Feb. 8, 1949. Republished Apr. 29. Class 26.

Huntington Laboratories, Inc., Huntington, Ind. Roach powder. 294,224, renewed May 24, 1952. O. G. Apr. 29. Class 6.

Huntington Laboratories, Inc., Huntington, Ind. Mixture of varnish and wax. 294,950, renewed June 14, 1952. O. G. Apr. 29. Class 16.

Huntington Laboratories, Inc., Huntington, Ind. Varnish. 292,951, renewed June 14, 1952. O. G. Apr. 29. Class 16.

Huntington Laboratories, Inc., Huntington, Ind. Wax polish. 295,230, renewed June 21, 1952. O. G. Apr. 29. Class 4.

Idaho Candy Company, Boise, Idaho. Candy. 294,863, renewed June 7, 1952. O. G. Apr. 29. Class 46.

Industrial Chemical Products Co., Detroit, Mich. Slightly acid mixture of metallic phosphates and wetting agents. 558,221, Apr. 29; Serial No. 585,847, published Jan. 29, 1952. Class 52.

Inland Steel Company, Chicago, Ill. Galvanized steel sheets. 558,351, Apr. 29; Serial No. 615,776, published Jan. 22, 1952. Class 14.

Insul-Mastic Corporation of America, Pittsburgh, Pa. Protective coatings having a base of gilsonite and asphalt. 558,269, Apr. 29; Serial No. 605,455, published Jan. 29, 1952. Class 12.

International Harvester Company, Chicago, Ill. Unfinished ferrous castings. 558,297, Apr. 29; Serial No. 612,805, published Jan. 22, 1952. Class 14.

International Paint Company, Inc., New York, N. Y. Ready-mixed antifouling bottom paints. 558,352 Apr. 29; Serial No. 615,980, published Jan. 15, 1952. Class 16.

International Salt Company: *See*—
Avery Salt Company.

Ireland & Taub Paper Company, Inc., New York, N. Y. Coated paper suitable for printing. 290,804, Jan. 19, 1932. Republished Apr. 29. Class 37.

Jensen Manufacturing Company: *See*—
Jensen Radio Manufacturing Company.

Jensen Radio Manufacturing Company to Jensen Manufacturing Company, Chicago, Ill. Radio loud speakers. 288,872, renewed Nov. 10, 1951. O. G. Apr. 29. Class 21.

Jenson & Nicholson Limited, Stratford, London, England. Ready mixed gloss paints, undercoat paints, enamels, etc. 558,223, Apr. 29; Serial No. 580,095, published Jan. 29, 1952. Class 16.

Jones, Alfred L., Fresno, Calif. Hair drier attachment for vacuum cleaners. 558,333, Apr. 29; Serial No. 613,995, published Jan. 22, 1952. Class 44.

Kansas Flour Mills Company: *See*—
Flour Mills of America, Inc.

Kedrin Pharmacals, Inc., New York, N. Y. General analgesic. 558,302, Apr. 29; Serial No. 613,075, published Dec. 25, 1951. Class 18.

Kitchen Art Foods, Inc., Chicago, Ill. Baking mixes. 558,182, Apr. 29; Serial No. 532,463, published Feb. 12, 1952. Class 46.

Kleinert, I. B., Rubber Company, New York, N. Y. Brassières, girdles, and corsets. 293,972, renewed May 10, 1952. O. G. Apr. 29. Class 39.

Kuhls, H. B. Fred, Brooklyn, N. Y. Marine paints. 558,229, Apr. 29; Serial No. 591,786, published Dec. 25, 1951. Class 16.

Laboratoires Longuet, Societe a Responsabilite Limitee, Paris, France. Alkaloidal preparation. 293,405, renewed Apr. 19, 1952. O. G. Apr. 29. Class 6.

Laboratoires Longuet, Societe a Responsabilite Limitee, Paris, France. Preparation used in gastric affections. 293,406, renewed Apr. 19, 1952. O. G. Apr. 29. Class 18.

La Maur, Incorporated, Minneapolis, Minn. Hair shampoo. 558,267, Apr. 29; Serial No. 603,691, published Dec. 25, 1951. Class 52.

Lanman & Kemp-Barclay & Co., Incorporated: *See*—
Lanman & Kemp.

Lanman & Kemp to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Sugar coated cathartic pills. 85,141, re-renewed Jan. 30, 1952. O. G. Apr. 29. Class 18.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Soaps. 292,499–500, renewed Mar. 15, 1952. O. G. Apr. 29. Class 52.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Soaps. 293,095, renewed Apr. 12, 1952. O. G. Apr. 29. Class 52.

Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y. Laxative pills, liniment for external use, hair tonic, etc. 294,791, renewed June 7, 1952. O. G. Apr. 29. Class 51.

Lasio, Tom, Fish Company, Inc., Eureka, Calif. Frozen fresh fish, frozen fresh shellfish, and canned fish. 558,392, Apr. 29; Serial No. 600,176. Class 46.

Lee, H. D., Mercantile Co., The, Salina, Kans. to Consolidated Grocers Corporation, Chicago, Ill. Dried apricots, dried apples, dried peaches, etc. 86,067, re-renewed Apr. 9, 1952. O. G. Apr. 29. Class 46.

Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio. Rubber hose and rubber and fabric hose, elevator belt, etc. 558,359, Apr. 29; Serial No. 616,655, published Jan. 29, 1952. Class 35.

Libbey-Owens-Ford Glass Company, Toledo, Ohio. Colored opaque glass tiles, multiple glass sheet glazing units, etc. 558,260, Apr. 29; Serial No. 602,039, published Jan. 8, 1952. Class 12.

Limestone Products Corporation of America, Newton, N. J. Finely pulverized limestone. 558,231, Apr. 29; Serial No. 592,271, published Jan. 22, 1952. Class 1.

Linen Guild, Inc., trading as Mead & Montague, New York, N. Y. Drapery and upholstery fabrics. 558,298, Apr. 29; Serial No. 612,809, published Feb. 5, 1952. Class 42.

Livingston & Livingston, New York, N. Y. Ladies' and misses' shirt blouses. 558,350, Apr. 29; Serial No. 615,459, published Feb. 5, 1952. Class 39.

Lorraine Lighting Products Co., Brooklyn, N. Y. Automatic feeder. 558,252, Apr. 29; Serial No. 600,385, published Feb. 5, 1952. Class 50.

Los Banos Produce Distributors, Los Banos, Calif. Fresh melons. 558,378, Apr. 29; Serial No. 568,064. Class 46.

Loudonville Milling Company, The, Loudonville, Ohio to Standard Milling Company, Chicago, Ill. Wheat flour. 291,929, renewed Feb. 23, 1952. O. G. Apr. 29; Class 46.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections on sticks. 558,381, Apr. 29; Serial No. 577,202, Class 46.

Lyne, J. A., Company, The: *See*—
Lyne, James A.

Lyne, James A., doing business as The J. A. Lyne Company, Russellville, to H. Hampton, Jr., doing business as Hampton-Cross Company, Louisville, Ky. Automobile radiator and boiler solder. 291,855, renewed Feb. 23, 1952. O. G. Apr. 29; Class 14.

Manhattan Shirt Company, The, New York, N. Y. Negligee shirts, pajamas, and underwear. 295,412, renewed June 28, 1952. O. G. Apr. 29. Class 39.

Manheim Manufacturing & Belting Company, Manheim, Pa. Power transmission belting. 558,358, Apr. 29; Serial No. 616,638, published Jan. 29, 1952. Class 35.

Manning, Maxwell & Moore, Incorporated, New York, N. Y. 558,196, Apr. 29. Angle, check, globe and gate valves, Serial No. 562,717, published May 19, 1951, Class 13; injectors for feeding water into boilers, Serial No. 614,211, published Sept. 11, 1951. Class 23. (Consolidated certificate, Class 13 and 23.)

Manufacture de Caoutchouc Michelin, Clermont-Ferrand, (Puy-de-Dôme), France. Pneumatic tires and inner tubes for vehicles. 558,274, Apr. 29; Serial No. 606,619, published Feb. 5, 1952. Class 35.

Martin, C. J., & Sons, to C. J. Martin & Sons, Inc., Austin, Tex. Insecticides. 85,152, re-renewed Jan. 30, 1952. O. G. Apr. 29. Class 6.

Martin, C. J. & Sons, Inc.: *See*—
Martin, C. J., & Sons.

Martins-Birmingham Limited, Birmingham, England. Purses, wallets, note cases, etc. 288,667, renewed Nov. 3, 1951. O. G. Apr. 29. Class 3.

Massetti, Guido, Rome, Italy. Benzo-alcoholic soap. 558,268, Apr. 29; Serial No. 603,717, published Jan. 22, 1952. Class 52.

McCrory Stores Corporation: *See*—
San-Nap-Pak Mfg. Co., Inc.

McPhillips Packing Corporation, Bayou La Batre, Ala. Canned oysters, canned crabmeat and canned shrimp. 558,275, Apr. 29; Serial No. 607,031, published Dec. 4, 1951. Class 46.

Mead, Johnson & Company, Evansville, Ind. Specially prepared food product. 295,757, renewed July 12, 1952. O. G. Apr. 29. Class 46.

Mead & Montague: *See*—
Linen Guild, Inc.

Melco Manufacturing Company, Chicago, Ill. Cast metal hand tool for planting, cultivating and measuring. 558,227, Apr. 29; Serial No. 591,434, published Dec. 18, 1951. Class 26.

Memphis Packing Co.: *See*—
Armour and Company.

Mercer, William G., doing business as Atlantic Specialties, Westwood, Mass. Detergent. 558,335, Apr. 29; Serial No. 614,053, published Jan. 22, 1952. Class 52.

Mercian, J. Howard, to B. C. Williams & Company, Inc., New York, N. Y. Canned sardines. 84,403, re-renewed Dec. 12, 1951. O. G. Apr. 29. Class 46.

Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Men's, women's, and children's hats and hat bodies. 444,685, Apr. 29; Serial No. 507,995, published July 17, 1951. Class 39.

Metal Textile Corporation, Roselle, N. J. Pot cleaners. 558,253, Apr. 29; Serial No. 600,603, published Jan. 22, 1952. Class 4.

Midway Chemical Company, Chicago, Ill., to Boyle-Midway Inc., New York, N. Y. Liquid insecticide. 291,400, renewed Feb. 9, 1952. O. G. Apr. 29. Class 6.

Midwest Plywood Company, Detroit, Mich. Fibre floor or wall tile. 558,232, Apr. 29; Serial No. 592,716, published Jan. 15, 1952. Class 12.

Millers Falls Paper Company, Millers Falls, Mass. Bond paper. 291,818, renewed Feb. 23, 1952. O. G. Apr. 29. Class 37.

Millville Manufacturing Company, The, Philadelphia, Pa. Finished cotton fabrics. 558,286, Apr. 29; Serial No. 609,488, published Feb. 5, 1952. Class 42.

Minneapolis, St. Paul & Sault Ste. Marie Railroad Company, Minneapolis, Minn. Railroad passenger and freight transportation service. 558,370, Apr. 29; Serial No. 601,271, published Feb. 5, 1952. Class 105.

Minnesota Mining & Manufacturing Company, St. Paul, Minn. Pre-sensitized printing plates. 558,360, Apr. 29; Serial No. 616,773, published Dec. 18, 1951. Class 26.

Modern-Miltex Corp., New York, N. Y. Artificial snow for ornamenting Christmas trees. 558,396, Apr. 29; Serial No. 609,185. Class 50.

Moravian Mills: *See*—
Southwick, Charles A., Jr.

Namm, A. I., & Son, doing business as The Namm Store, to Namm's Inc., Brooklyn, N. Y. Men's dress, negligee, or work shirts. 290,146, renewed Dec. 22, 1951. O. G. Apr. 29. Class 39.

Namm Store, The: *See*—
Namm, A. I., & Son.

Namm's Inc.: *See*—
Namm, A. I., & Son.

Nash, Inc., by Nash Inc., Jersey City, N. J. Leather goods. 402,981, Aug. 24, 1943. Republished Apr. 29. Class 3.

Nash, Walter J., doing business under the name and style of Wanasco Laboratories, Omaha, Nebr. Hand lotions and skin fresheners. 558,282, Apr. 29; Serial No. 608,212, published Jan. 29, 1952. Class 51.

National Automotive Fibres, Inc., Oakland, Calif. Textile carpeting. 558,247, Apr. 29; Serial No. 598,492, published Feb. 5, 1952. Class 42.

National Automotive Parts Association, Detroit, Mich. Automobile coatings. 558,373, Apr. 29; Serial No. 574,451, published Dec. 25, 1951. Class 16.

Nestle-LeMur Company, The, New York, N. Y. Hair waving pads. 293,714, renewed May 3, 1952. O. G. Apr. 29. Class 44.

New York Telecoin Corporation, New York, N. Y. Coin meters. 558,356, Apr. 29; Serial No. 616,182, published Dec. 25, 1951. Class 26.

News Syndicate Co. Inc., New York, N. Y. Newspaper section. 294,393, renewed May 24, 1952. O. G. Apr. 29. Class 38.

Norgren, C. A., Co., Denver, Colo. Fluid and gas conducting hose. 558,362, Apr. 29; Serial No. 617,050, published Feb. 5, 1952. Class 35.

Northrup, King & Co., Minneapolis, Minn. Poultry and livestock feeds. 558,287, Apr. 29; Serial No. 609,565, published Dec. 4, 1951. Class 46.

Oakville Company to Scovill Manufacturing Company, Waterbury, Conn. Safety-pins. 85,275, re-renewed Feb. 6, 1952. O. G. Apr. 29. Class 40.

Oakville Company to Scovill Manufacturing Company, Waterbury, Conn. Safety-pins. 85,277, re-renewed Feb. 6, 1952. O. G. Apr. 29. Class 40.

Oakville Company to Scovill Manufacturing Company, Waterbury, Conn. Safety-pins. 85,279, re-renewed Feb. 6, 1952. O. G. Apr. 29. Class 40.

Oakville Company to Scovill Manufacturing Company, Waterbury, Conn. Toilet-pins and safety-pins. 86,676, re-renewed Mar. 5, 1952. O. G. Apr. 29. Class 40.

Oklahoma Clothing Manufacturers, Oklahoma City, Okla. Jeans. 558,233, Apr. 29; Serial No. 592,829, published Dec. 18, 1951. Class 39.

Old Colony Envelope Company, Westfield, Mass. Writing and printing paper, mailing envelopes, announcement cards, etc. 291,668, renewed Feb. 23, 1952. O. G. Apr. 29. Class 37.

Opotow Dental Manufacturing Corp., Brooklyn, N. Y. Dental impression powder and duplicating powder. 558,340, Apr. 29; Serial No. 614,509, published Jan. 22, 1952. Class 44.

Optical Development Corporation, Chicago, Ill. Optical lenses. 558,336, Apr. 29; Serial No. 614,096, published Dec. 18, 1951. Class 26.

Organon Inc., Orange, N. J. Medicinal preparation. 558,299, Apr. 29; Serial No. 612,819, published Dec. 18, 1951. Class 18.

Oronite Chemical Company, Wilmington, Del., and San Francisco, Calif. Dibutyl phthalate; and metal salts of sulfonic acids, metal salts of alkyl phenols, etc. 558,207–9, Apr. 29; Serial Nos. 575,778–80, published Dec. 25, 1951. Class 6.

Ottawa Steel Products, Inc., Ottawa, Kans. Power shovel and loader bucket level indicators. 558,283, Apr. 29; Serial No. 608,471, published Dec. 18, 1951. Class 26.

Ottens, Henry H., to Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa. Filling for marshmallow goods, meringues, macaroons, etc. 37,897, re-renewed Mar. 4, 1952. O. G. Apr. 29. Class 46.

Ottens, Henry H., to Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa. Icing-powder for cakes and confectionery. 38,075, re-renewed Apr. 8, 1952. O. G. Apr. 29. Class 46.

Ottens, Henry H., Mfg. Co., Inc.: *See*—
Ottens, Henry H.

Owensboro Milling Co. Incorporated, Owensboro, Ky. Wheat flour, stock and poultry feeds. 290,731, renewed Jan. 12, 1952. O. G. Apr. 29. Class 46.

Oxman, Emanuel, doing business as Philadelphia Hat Company, Philadelphia, Pa. Ladies' millinery. 558,200, Apr. 29; Serial No. 567,425, published Jan. 29, 1952. Class 39.

Pabco Products Inc.: *See*—
Paraffine Companies, Inc., The.

Pac-Kit Company, The, Greenwich, Conn. First aid equipment. 558,205, Apr. 29; Serial No. 572,445, published Jan. 22, 1952. Class 44.

Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn., to American Chain & Cable Company, Inc., Bridgeport, Conn. Steel and iron strands for cable and rope. 288,003, renewed Oct. 20, 1951. O. G. Apr. 29. Class 7.

Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn., to American Chain & Cable Company, Inc., Bridgeport, Conn. Steel and iron magnet core wire. 288,101, renewed Oct. 20, 1951. O. G. Apr. 29. Class 21.

Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn., to American Chain & Cable Company, Inc., Bridgeport, Conn. Steel and iron rods, etc. 288,450, renewed Oct. 27, 1951. O. G. Apr. 29. Class 14.

Pagliuso Engineering Company: *See*—
Pagliuso, R. J.

Pagliuso, R. J., doing business as Pagliuso Engineering Company, Glendale, Calif. Camera tripods. 558,300, Apr. 29; Serial No. 613,019, published Dec. 18, 1951. Class 26.

Paraffine Companies, Inc., The, San Francisco, Calif., now by change of name, Pabco Products Inc. Cement base paint. 558,193, Apr. 29; Serial No. 558,586, published Jan. 1, 1952. Class 16.

Parfums Forvil & Dentifrices du Docteur Pierre Reunis, Societe Anonyme, Nanterre (Seine), France Hair cream. 558,343, Apr. 29; Serial No. 614,641, published Jan. 29, 1952. Class 51.

Pennsylvania Salt Manufacturing Company, The: *See*—
Sterling Products Company.

Pennsylvania Salt Manufacturing Company, The, Philadelphia, Pa. Insecticides. 558,197, Apr. 29; Serial No. 564,464, published Mar. 27, 1951. Class 6.

Peoples Drug Stores, Inc., Washington, D. C. Antiseptic solution. 293,621, renewed May 3, 1952. O. G. Apr. 29. Class 18.

Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Liquid linoleum finish in the nature of a protective coating. 558,375, Apr. 29; Serial No. 533,363. Class 16.

Philadelphia Hat Company: *See*—
Oxman, Emanuel.

Photoreflex of New England, Incorporated, New Haven, Conn. to Dorothy D. Wheelan, New York, N. Y. Photograph folders and mounts. 290,458, renewed Jan. 5, 1952. O. G. Apr. 29 Class 37.

Photoreflex of New England, Incorporated, New Haven, Conn. to Dorothy D. Wheelan, New York, N. Y. Pose-reflecting photographic apparatus. 291,336, renewed Feb. 9, 1952. O. G. Apr. 29 Class 26.

Pichel, Marlowe A., assignee: *See*—
Aqua Glide Company.

Pierre, Dr., Chemical Company, Chicago, Ill. Tablets which produce a refreshing and antiseptic solution when mixed with water and used as a vaginal douche. 558,271, Apr. 29; Serial No. 605,763, published Jan. 29, 1952. Class 18

Pittsburgh Plate Glass Company, Pittsburgh, Pa. Liquid enamels. 558,187, Apr. 29; Serial No. 544,279, published Jan. 1, 1952. Class 16.

Plunkett-Jarrell Grocer Company, Little Rock, Ark. Tea, ground cinnamon, orange flavoring extract, etc. 86,761, re-renewed May 28, 1952. O. G. Apr. 29 Class 46.

Popular Mechanics Company to Science Digest, Inc., Chicago, Ill. Magazine. 290,859, renewed Jan. 19, 1952. O. G. Apr. 29. Class 38.

Porter Paint Company, Louisville, Ky Enamels, asphalt roof coatings, penetrating, quick drying, and creosote shingle stains, etc. 558,228, Apr. 29; Serial No. 591,585, published Jan. 29, 1952. Class 16.

Portland Woolen Mills, Inc., doing business as "Wool O'The West", Portland, Oreg. Laprobes. 558,195, Apr. 29; Serial No. 562,665, published Feb. 5, 1952. Class 42.

Potter Drug and Chemical Corporation: *See*—
Potter Drug & Chemical Corporation

Potter Drug & Chemical Corporation, Boston, to Potter Drug and Chemical Corporation, Malden, Mass. Ointment. 36,921, re-renewed Aug. 20, 1951. O. G. Apr. 29. Class 18.

Pratt-Low Preserving Company: *See*—
Sutter Cooperative Growers.

Products Protection Corporation, The, New Haven, Conn., and New York, N. Y., to The Safety Car Heating and Lighting Company, Inc., New York, N. Y. Machinery and apparatus for sterilizing food and other products. 292,424, renewed Mar. 15, 1952. O. G. Apr. 29 Class 23.

Propert Limited: *See*—
Beddow, B., and Sons Limited.

Propert's: *See*—
Beddow, B. and Sons Limited.

RCA Victor Company, Inc., Camden, N. J. to Radio Corporation of America, New York, N. Y. Line terminating units, resistor units, resistor-capacitance terminating units. 290,614, renewed Jan. 12, 1952. O. G. Apr 29. Class 21.

Radford Supply Company, Glendale, Calif. Steel sash window frames and steel sash metal surrounds. 558,278, Apr. 29; Serial No. 607,901, published Jan. 15, 1952. Class 12.

Radio Corporation of America: *See*—
RCA Victor Company, Inc.

Rainbow Shops, Inc., Brooklyn, N. Y. Slips, petticoats, nightgowns, etc. 558,183, Apr. 29; Serial No. 534,672, published Sept 13, 1949. Class 39.

Raybestos-Manhattan, Inc., Passaic, N. J. Heat insulating material. 558,220, Apr. 29; Serial No. 585,247, published Jan. 15, 1952. Class 12.

Reckitt & Colman Limited, Hull, England. Pigments and colors for paints. 558,261, Apr. 29; Serial No. 602,286, published Dec. 25, 1951 Class 16.

Reis, Carl A., South Carrollton, Ky. Coal. 558,206, Apr. 29; Serial No. 575,672, published Jan. 22, 1952. Class 1.

Remington Arms Company, Inc.: *See*—
Chamberlin Cartridge & Target Co., The.

Remington Rand, Inc., Buffalo, to Remington Rand, Inc., New York, N. Y. Index tabs and holders, and inserts therefor. 292,508, renewed Mar. 15, 1952. O. G. Apr. 29. Class 37.

Republic Rubber Division: *See*—
Lee Rubber & Tire Corporation.

Revlon Products Corporation, New York, N. Y Nail enamel and lipstick. 558,291–2, Apr. 29; Serial Nos. 611,488–9, published Jan. 29, 1952. Class 51.

Richards, Willard R., Warren, Ohio. Shuttlecocks. 558,263, Apr. 29; Serial No. 602,913, published Feb. 5, 1952 Class 22.

Richfield Oil Company to Richfield Oil Corporation, Los Angeles, Calif. Petroleum and petroleum products. 290,239, renewed Dec. 22, 1951. O. G. Apr. 29. Class 15.

Richfield Oil Corporation: *See*—
Richfield Oil Company.

Roberts-Modaber, Inc., Chicago, Ill. Detergent. 558,273, Apr 29; Serial No. 606,327, published Jan. 22, 1952. Class 52.

Robinson, Wm. C., & Son, Co., Baltimore, Md., and Coraopolis, Pa. to Wm. C. Robinson & Son Co., Baltimore, Md. Cylinder and engine oil. 85,997, re-renewed Apr. 2, 1952 O. G. Apr. 29. Class 15.

Robinson, Wm. C., & Son, Co., Baltimore, Md., and Coraopolis, Pa., to Wm. C. Robinson & Son Co., Baltimore, Md. Cylinder-oil. 85,998, re-renewed Apr. 2, 1952 O. G. Apr. 29. Class 15.

Robinson, Wm. C., & Son, Co., Baltimore, Md., and Coraopolis, Pa., to Wm. C. Robinson & Son Co., Baltimore, Md. Valve-oil. 86,000, re-renewed Apr. 2, 1952. O G. Apr. 29. Class 15.

Romano, Jacques, New York, N. Y. Preparation used in the treatment of disordered functions of the nasal mucous membranes. 293,825, renewed May 10, 1952. O. G. Apr. 29. Class 18.

Rome Company, Inc., The, to Burton-Dixie Corporation, Chicago, Ill. Beds, bed springs, mattresses, etc 291,992, renewed Mar. 1, 1952. O. G. Apr. 29. Class 32.

Ross, Will, Inc., Milwaukee, Wis. Clinical thermometers, surgeons' gloves (rubber), catheters, etc. 558,281, Apr. 29; Serial No 608,083, published Jan. 22, 1952. Class 44.

Rudiger-Lang Co., Berkeley, Calif. Window screens. 558,185, Apr. 29; Serial No. 537,733, published Jan. 29, 1952. Class 12.

S and B Chemical Company, Asheville, N. C. Antiseptic solution. 289,547, renewed Dec 1, 1951. O. G. Apr. 29. Class 18.

Sacks, Jules, Philadelphia, Pa. Preparation of single slugs or bars of multigraph type according to particular requirements and the rental thereof, etc. 545,021, July 10, 1951. Corrected. O. G. Apr. 29. Class 101.

Safety Car Heating and Lighting Company, The: *See*—
Products Protection Corporation, The.

Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif. Canned fish. 558,276, Apr. 29; Serial No. 607,195, published Dec. 25, 1951. Class 46.

Salsbury's, Dr., Laboratories, Charles City, Iowa. Internal preparations as medicines and nutritional adjuvants. 558,235, Apr. 29; Serial No. 593,504, published Dec. 18, 1951 Class 18.

Salsbury's, Dr., Laboratories, Charles City, Iowa. Preparation for the treatment and control of coccidiosis in chickens, etc. 558,242, Apr. 29; Serial No. 597,101, published Dec. 18, 1951. Class 18.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Iron and steel. 283,348, renewed May 26, 1951. O G. Apr. 29. Class 14.

Sandvikens Jernverks Aktiebolag, Sandviken, Sweden. Saws, axes, chisels, etc. 283,612, renewed June 2, 1951. O. G. Apr. 29. Class 23.

San-Nap-Pak Mfg Co., Inc. to McCrory Stores Corporation, New York, N. Y. Absorbent cotton, absorbent gauze, and sanitary napkins. 289,316, renewed Nov. 24, 1951. O. G. Apr. 29; Class 44.

Sapolin Paints Inc., New York, N. Y. Enamel paint. 558,393, Apr 29; Serial No. 602,781. Class 16.

Sayman Products Company, St. Louis, Mo. Toilet soaps, vegetable soap, lanolated soap, etc. 558,192, Apr. 29; Serial No. 557,961, published Jan. 29, 1952. Class 4.

Scheminger, John, Jr.: *See*—
Eddy & Fisher, Inc.

Schueller, Eugene, Paris, France. Shampoos. 558,244, Apr. 29; Serial No 597,298, published Jan. 22, 1952. Class 52.

Science Digest, Inc.: *See*—
Popular Mechanics Company.

Scovill Manufacturing Company: *See*—
Oakville Company.

Sealy, Incorporated, Chicago, Ill. Insulator pads and protector pads used in the construction of mattresses and box springs. 558,204, Apr. 29; Serial No. 571,748, published Feb. 5, 1952. Class 32.

Sears, Roebuck and Co., Chicago, Ill. Grinding stones, abrasive grinding wheels, sanding blocks, etc 558,202, Apr. 29; Serial No. 570,514, published Jan. 22, 1952. Class 4.

Selas Corporation of America: *See*—
"Selas" Gesellschaft Mit Beschränkter.

"Selas" Gesellschaft Mit Beschränkter Haftung, Berlin, Germany, by Selas Corporation of America, Philadelphia, Pa. Gas mixture apparatus, carburetors, etc. 84,344, Nov. 28, 1911. Republished Apr. 29, 1952. Class 23.

Selected Risks Indemnity Company, Branchville, N. J. Services namely, the underwriting of casualty, fire, etc. insurance. 558,367, Apr. 29; Serial No. 569,481, published Feb. 5, 1952. Class 102.

Semans, Thomas B., Jr., Philadelphia, Pa. Golf balls. 558,326, Apr. 29; Serial No. 613,608, published Feb 12, 1952. Class 22.

Senior Chemical Co., White Plains, N. Y. Touch-up paints and varnishes. 558,395, Apr. 29; Serial No. 606,729. Class 16.

Sexauer, J. A., Mfg. Co., Inc., New York, N. Y. Pipe joint cement, gas fitters cement, spud cement, etc. 558,236, Apr. 29; Serial No. 594,586, published Jan. 8, 1952. Class 12.

Shimmel, M., Sons, New York, N. Y. Toy return tops. 558,319, Apr. 29; Serial No. 613,308, published Feb. 12, 1952. Class 22.

Siems Bros., Inc.: *See*—
Trussbilt Steel Doors, Inc.

Silkalite Products: *See*—
Twomey, Fred A.

Sinclair Refining Company, Chicago, Ill. Refined, semi-refined and unrefined oils. 146,362, Sept. 6, 1921. Corrected. O. G. Apr. 29. Class 15.

Smith Brothers, Plymouth, N. C. Dry cleaning substance which may be used in dry or moist condition for removing spots, etc. 558,256, Apr. 29; Serial No. 601,646, published Jan. 22, 1952. Class 52.

Smith Welding Equipment Corporation, Minneapolis, Minn. Welding hose. 558,389–90, Apr. 29; Serial Nos. 599,268–9. Class 35.

Sonoflux Corporation, Houston, Tex. Vibro-magnetic inspection instrument. 558,222, Apr. 29; Serial No. 588,971, published Dec. 18, 1951. Class 26.

Southwestern Milling Company, The, Jersey City, N. J., and Kansas City, Mo., to Standard Milling Company, Chicago, Ill. Wheat-flour. 87,271, re-renewed July 2, 1952. O. G. Apr. 29. Class 46.

Southwick, Charles A., Jr., doing business under the name and style of Moravian Mills, Hope, N. J. Wheat flour, pancake flour, buck-wheat pancake flour, etc. 558,246, Apr. 29; Serial No. 598,393, published Feb. 12, 1952. Class 46.

Standard Milling Company: *See*—
Duluth-Superior Milling Company.
Loudonville Milling Company, The.
Southwestern Milling Company, The.

Standard Oil Company, Chicago, Ill. Lubricating oils and greases. 166,494, Apr. 3, 1923. Republished Apr. 29. Class 15.

Standard Toykraft Products, Inc., Brooklyn, N. Y. Toy crayon, embroidery, and paint sets. 558,290, Apr. 29; Serial No. 611,155, published Feb. 5, 1952. Class 22.

Stanley Home Products, Inc., Westfield, Mass. Cocoanut oil shampoos, upholstery and rug shampoos, hand cleaners, etc. 558,245, Apr. 29; Serial No. 597,792, published Jan. 22, 1952. Class 52.

Steel Pharmaceutical Co. Inc., New York, N. Y. Anti-spasmodic sedative tablets. 558,237, Apr. 29; Serial No. 595,012, published Dec. 25, 1951. Class 18.

Sterilek Company Inc., The, Brooklyn, to The Sterilek Company, Inc., New York, N. Y. Sanitary napkins. 287,567, renewed Sept. 29, 1951. O. G. Apr. 29. Class 44.

Sterilek Company Inc., The, Brooklyn, to The Sterilek Company, Inc., New York, N. Y. Sanitary napkins. 289,916, renewed Dec. 15, 1951. O. G. Apr. 29. Class 44.

Sterling Products Company, Easton, Pa., to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Preparation for cleaning tile, porcelain, marble floors, etc. 290,650, renewed Jan. 12, 1952. O. G. Apr. 29. Class 52.

Stevens & Thompson Paper Co., North Roosier, N. Y. Toilet paper. 291,905, Feb. 23, 1932. Corrected. O. G. Apr. 29. Class 37.

Stoddard, G. S., & Co., Inc., New York, N. Y. Analgesic and hypnotic. 558,270, Apr. 29; Serial No. 605,561, published Dec. 18, 1951. Class 18.

Struve, Roland J., Bell Gardens, Calif. Scoring or imprinting a wet concrete or plaster surface with lines, etc. 558,368, Apr. 29; Serial No. 589,602, published Feb. 5, 1952. Class 106.

Sun Chemical Corporation: *See*—
Horn, A. C., Company.

Sunbeam Motor Car Co., Ltd., The, Wolverhampton, to Sunbeam-Talbot Limited, Ryton-on-Dunsmore, Coventry, England. Internal-combustion engines. 283,204, renewed May 19, 1951. O. G. Apr. 29. Class 23.

Sunbeam-Talbot Limited: *See*—
Sunbeam Motor Car Co., Ltd., The.

Sutter Cooperative Growers, San Francisco, to Pratt-Low Preserving Company, Santa Clara, Calif. Canned fruits and canned vegetables. 285,178, renewed July 14, 1951. O. G. Apr. 29. Class 46.

Sweets Company of America, Incorporated, The: *See*—
Sweets Company of America, Inc.

Sweets Company of America, Inc., New York, N. Y., to The Sweets Company of America, Incorporated, Hoboken, N. J. Confectionery. 295,641, renewed July 5, 1952. O. G. Apr. 29. Class 46.

Takamine Laboratory, Inc., Clifton, N. J. Dry cleaning soap compound. 558,248, Apr. 29; Serial No. 598,760, published Jan. 29, 1952. Class 52.

Taylor-Colquitt Co., Spartanburg, S. C. Preserved lumber. 558,285, Apr. 29; Serial No. 609,423, published Jan. 15, 1952. Class 12.

Tesla, Narodni Podnik: *See*—
Tesla, Slaboproudé a Radiotechnické Závody, Národní Podnik.

Tesla, Slaboproudé a Radiotechnické Závody, Národní Podnik, Prague, Czechoslovakia, now by change of name Tesla, Narodni Podnik. Electrical appliances and supplies. 558,377, Apr. 29; Serial No. 552,098. Class 21.

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. 558,304, Apr. 29; Serial No. 613,250, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil. 558,305, Apr. 29; Serial No. 613,251, published Dec. 18, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. 558,306–8, Apr. 29; Serial Nos. 613,254–6, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil and greases. 558,309, Apr. 29; Serial No. 613,257, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. 558,310, Apr. 29; Serial No. 613,258, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. 558,311, Apr. 29; Serial No. 613,260, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil and greases. 558,312, Apr. 29; Serial No. 613,262, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating grease. 558,313, Apr. 29; Serial No. 613,263, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil and greases. 558,314, Apr. 29; Serial No. 613,265, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil and greases. 558,315, Apr. 29; Serial No. 613,266, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil. 558,316, Apr. 29; Serial No. 613,267, published Dec. 25, 1951. Class 15.

Tide Water Associated Oil Company, New York, N. Y. Lubricating oil and greases. 558,317, Apr. 29; Serial No. 613,268, published Dec. 25, 1951. Class 15.

Tiffany Asphalt and Grease Works: *See*—
American Lubricants Company, The.

Travelworld: *See*—
Harris, Kent.

Trinidad Lake Petroleum Company, Limited, The, Brighton, Trinidad, British West Indies. Road oil and road binder. 558,234, Apr. 29; Serial No. 592,851, published Jan. 29, 1952. Class 12.

Trussbilt Steel Doors, Inc., Minneapolis, to Siems Bros., Inc., St. Paul, Minn. Hollow sheet metal units. 294,095, renewed May 17, 1952. O. G. Apr. 29. Class 12.

Twomey, Fred A., doing business as Silkalite Products, Jacksonville, Fla. Liquid transparent resinous plastic solution. 558,219, Apr. 29; Serial No. 582,152, published Jan. 1, 1952. Class 16.

United Broadcasting Company, Cleveland and Columbus, Ohio. Radio program broadcasting services. 558,398, Apr. 29; Serial No. 561,174. Class 104.

United Broadcasting Company, Cleveland, Ohio. Radio program broadcasting services. 558,399, Apr. 29; Serial No. 561,177. Class 104.

United Cigar Manufacturers Company to General Cigar Co., Inc., New York, N. Y. Cigars. 86,487, re-renewed May 7, 1952. O. G. Apr. 29. Class 17.

United Petroleum Corporation, Omaha, Nebr. Lubricating grease. 558,186, Apr. 29; Serial No. 542,492, published Dec. 25, 1951. Class 15.

United States Rubber Company, New York, N. Y. Belting and packing composed of rubber and fabric. 288,179, Oct. 20, 1931. Republished Apr. 22. Class 35.

Universal-Cyclops Steel Corporation: *See*—
Universal Steel Company.

Universal Oil Products Company, Chicago, Ill. Chemicals and chemical compositions. 558,294, Apr. 29; Serial No. 611,983, published Feb. 5, 1952. Class 6.

Universal Rugs and Carpets: *See*—
Bigelow-Sanford Carpet Company, Inc.

Universal Steel Company, to Universal-Cyclops Steel Corporation, Bridgeville, Pa. Molybdenum metal and molybdenum alloys, and tool and cutting steels. 293,961, renewed May 10, 1952. O. G. Apr. 29. Class 14.

Valea y Compania, Habana, Cuba. Fruit preserves, canned fruits, jams, etc. 558,385, Apr. 29; Serial No. 588,408. Class 46.

Vanity Brassiere Company, Inc., to Vanity Corset Company, Inc., New York, N. Y. Corsets, brassières, and girdles. 295,499, renewed July 5, 1952. O. G. Apr. 29. Class 39.

Vanity Corset Company, Inc.: *See*—
Vanity Brassiere Company, Inc.

Vest, Peter, Sales Corporation, New York, N. Y. Lipstick, foundation cream, cream rouge, etc. 558,327–8, Apr. 29; Serial Nos. 613,658–9, published Jan. 29, 1952. Class 51.

Victaulic Company Limited, The, London, England. Packing rings and packing glands. 558,346, Apr. 29; Serial No. 615,198, published Feb. 12, 1952. Class 35.

Virginia-Carolina Chemical Corporation, Richmond, Va. Quaternary ammonium tablets. 558,361, Apr. 29; Serial No. 617,002, published Feb. 5, 1952. Class 6.

Virol, Limited, London, England. Red bone marrow and malt extract. 37,976, re-renewed Mar. 25, 1952. O. G. Apr. 29. Class 46.

Waldes & Cie., Prague-Wrschowitz, Austria-Hungary, to Waldes Koh-i-Noor, Inc., Long Island City, N. Y. Snap-buttons. 86,648, re-renewed May 21, 1952. O. G. Apr. 29. Class 40.

Waldes Koh-i-Noor, Inc.: *See*—
Waldes & Cie.

Walker Chemical Co.: *See*—
Walker, Joe P.

Walker, Joe P., doing business as Walker Chemical Co., Orlando, Fla. Insect spray. 558,387, Apr. 29; Serial No. 595,020. Class 6.

Wampole, Henry K., & Company, Incorporated, Philadelphia, Pa. Suppositories, vaginal cones, a beef-juice tonic, etc. 87,022, re-renewed June 18, 1952. O. G. Apr. 29. Class 18.

Wanasco Laboratories: *See*—
Nash, Walter J.

Wasco Flashing Co., Cambridge, Mass. Electro-sheet copper bonded on one side with asphalt to creped, reinforced and waterproof kraft paper for flashings. 558,265, Apr. 29; Serial No. 603,096, published Jan. 29, 1952. Class 12.

West Disinfecting Company, Long Island City, N. Y. Floor wax. 558,293, Apr. 29; Serial No. 611,821, published Jan. 8, 1952. Class 4.

Weston, Byron, Company, Dalton, Mass. Ledger and bond paper. 293,696, renewed May 3, 1952. O. G. Apr. 29. Class 37.

Weston, Byron, Company, Dalton, Mass. Ledger and bond paper. 293,760, renewed May 3, 1952. O. G. Apr. 29. Class 37.

Wheelan, Dorothy D.: *See*—
Photoreflex of New England, Incorporated.

Whitbread & Company Limited, London, England. Ale. 81,420, re-renewed Apr. 4, 1951. O. G. Apr. 29. Class 48.

White Laboratories, Inc., Newark, N. J. Laxative. 558,303, Apr. 29; Serial No. 613,151, published Dec. 25, 1951. Class 18.

White Tower Management Corporation, Stamford, Conn. Serving and dispensing food and beverages in restaurants. 558,371, Apr. 29; Serial No. 605,186, published Feb. 5, 1952. Class 100.

White & Wyckoff Mfg. Co., Riverside, to White & Wyckoff Mfg. Co., Holyoke, Mass. Price book fillers, loose-leaf fillers, typewriter paper, etc. 290,801, renewed Jan. 19, 1952. O. G. Apr. 29. Class 37.

Wilbur & Williams Company, The, Boston, Mass. Ready-mixed paints, and enamels. 558,225, Apr. 29; Serial No. 590,119, published Jan. 1, 1952. Class 16.

Williams, R. C., & Company, Inc.: *See*—
Mercian, J. Howard.

Williams & Williams Limited, Chester, England, assignor to Aluminex Incorporated, Los Angeles, Calif. Aluminum and alloy glazing bar. 558,180, Apr. 29; Serial No. 523,225, published Jan. 15, 1952. Class 12.

Willow Fabrics, Incorporated, New York, N. Y. Rayon fabrics. 558,295, Apr. 29; Serial No. 611,988, published Feb. 5, 1952. Class 42.

Winnek, Douglas F., Glen Cove, N. Y. Cameras, photographic projection printers and stereoscopic X-ray cameras. 444,686, Apr. 29; Serial No. 519,502, published Dec. 18, 1951. Class 26.

Wood Canning Company, Stockton, Calif. Canned peaches. 558,217, Apr. 29; Serial No. 579,642, published Jan. 1, 1952. Class 46.

Wood, G. H., & Company Limited, Toronto, Ontario, Canada. Antiseptic soap preparation. 558,339, Apr. 29; Serial No. 614,476, published Jan. 29, 1952. Class 52.

"Wool O'The West": *See*—
Portland Woolen Mills, Inc.

Youngstown Sheet and Tube Company, The, Youngstown, Ohio. Wire. 558,337, Apr. 29; Serial No. 614,116, published Jan. 22, 1952. Class 14.

Zendman, I., Inc., New York, N. Y. Lace fabrics in the piece. 558,338, Apr. 29; Serial No. 614,327, published Feb. 5, 1952. Class 42.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. C. A. Reis. 558,206, Apr. 29; Serial No. 575,672, published Jan. 22, 1952.

Limestone, Finely pulverized. Limestone Products Corporation of America. 558,231, Apr. 29; Serial No. 592,271, published Jan. 22, 1952.

Modeling clay. Binney & Smith Company. 558,249, Apr. 29; Serial No. 599,147, published Jan. 22, 1952.

Seeds. Ferry-Morse Seed Co. 558,330, Apr. 29; Serial No. 613,808, published Jan. 22, 1952.

Seeds, Flower. Germain's, Inc. 558,347, Apr. 29; Serial No. 615,214, published Jan. 22, 1952.

CLASS 2

Bottles, Vacuum. The American Thermos Bottle Company. 294,369, renewed May 24, 1952. O. G. Apr. 29.

Receptacles, Vacuum cleaner dust. Eureka Vacuum Cleaner Company. 291,887, Feb. 23, 1932. Republished Apr. 29.

CLASS 3

Leather goods. Nash, Inc. 402,981, Aug. 24, 1943. Republished Apr. 29.

Purses, wallets, note cases, etc. Martins-Birmingham Limited. 288,667, renewed Nov. 3, 1951. O. G. Apr. 29.

CLASS 4

Coated abrasive products. Armour and Company. 558,212, Apr. 29; Serial No. 577,927, published Jan. 22, 1952.

Grinding stones, abrasive grinding wheels, sanding blocks, etc. Sears, Roebuck and Co. 558,202, Apr. 29; Serial No. 570,514, published Jan. 22, 1952.

Polish, Wax. Huntington Laboratories, Inc. 295,230, renewed June 21, 1952. O. G. Apr. 29.
Pot cleaners. Metal Textile Corporation. 558,253, Apr. 29; Serial No. 600,603, published Jan. 22, 1952.
Soaps, Toilet, vegetable soap, lanolated soap, etc. Sayman Products Company. 558,192, Apr. 29; Serial No. 557,961, published Jan. 29, 1952.
Wax and glaze, Automobile. W. E. Coburn. 558,386, Apr. 29; Serial No. 594,362.
Wax, Floor. West Disinfecting Company. 558,293, Apr. 29; Serial No. 611,821, published Jan. 8, 1952.
Wax, Floor polishing. Brantford Industries Limited. 558,266, Apr. 29; Serial No. 603,338, published Feb. 5, 1952.
Waxes and glazes, Automobile, wax polishes, etc. Franklin Research Company. 558,216, Apr. 29; Serial No. 579,589, published Jan. 22, 1952.

CLASS 5

Adhesive mending cement. The Enterprise Manufacturing Company. 291,345, renewed Feb. 9, 1952. O. G. Apr. 29.

CLASS 6

Alkaloidal preparation. Laboratoires Longuet, Societe a Responsabilite Limitee. 293,406, renewed Apr. 19, 1952. O. G. Apr. 29.
Chemical wetting agent. The A. B. Hill Company. 558,353, Apr. 29; Serial No. 616,032, published Feb. 5, 1952.
Chemicals and chemical compositions. Universal Oil Products Company. 558,294, Apr. 29; Serial No. 611,983, published Feb. 5, 1952.
Dibutyl phthalate; and metal salts of sulfonic acids, metal salts of alkyl phenols, etc. Oronite Chemical Company. 558,207–9, Apr. 29; Serial Nos. 575,778–80, published Dec. 25, 1951.
Dyes and dyestuffs. General Dyestuff Corporation. 287,132, Sept. 15, 1931. Republished Apr. 29.
Insect spray. J. P. Walker. 558,387, Apr. 29; Serial No. 595,020.
Insecticide, Liquid. Midway Chemical Company. 291,400, renewed Feb. 9, 1952. O. G. Apr. 29.
Insecticides. E. O. Corson. 293,916, renewed May 10, 1952. O. G. Apr. 29.
Insecticides. C. J. Martin & Sons. 85,152, re-renewed Jan. 30, 1952. O. G. Apr. 29.
Insecticides. The Pennsylvania Salt Manufacturing Company. 558,197, Apr. 29; Serial No. 564,464, published Mar. 27, 1951.
Naphtha. The R. J. Brown Company. 558,211, Apr. 29; Serial No. 576,900, published Dec. 25, 1951.
Preparation to control the preharvest drop of apples. The Dow Chemical Company. 558,363, Apr. 29; Serial No. 617,080, published Jan. 29, 1952.
Quaternary ammonium tablets. Virginia-Carolina Chemical Corporation. 558,361, Apr. 29; Serial No. 617,002, published Feb. 5, 1952.
Roach powder. Huntington Laboratories, Inc. 294,224, renewed May 24, 1952. O. G. Apr. 29.

CLASS 7

Steel and iron strands for cable and rope. Page Steel and Wire Company. 288,003, renewed Oct. 20, 1951. O. G. Apr. 29.

CLASS 12

Aluminum alloy glazing bar. Williams & Williams Limited. 558,180, Apr. 29; Serial No. 523,225, published Jan. 15, 1952.
Aluminum windows. Alumatic Corporation of America. 558,226, Apr. 29; Serial No. 591,392, published Jan. 15, 1952.
Asbestos fibre roof coating and plastic asbestos roof cement. The American Lubricants Company. 558,194, Apr. 29; Serial No. 561,545, published Jan. 15, 1952.
Cement, Corrosion resistant. The Atlas Mineral Products Company of Pennsylvania. 558,344, Apr. 29; Serial No. 614,806, published Jan. 29, 1952.
Cement, Pipe joint, gas fitters cement, spud cement, etc. J. A. Seznuer Mfg. Co., Inc. 558,236, Apr. 29; Serial No. 594,586, published Jan. 8, 1952.
Colored opaque glass tiles, multiple glass sheet glazing units, etc. Libbey-Owens-Ford Glass Company. 558,260, Apr. 29; Serial No. 602,039, published Jan. 8, 1952.
Electro-sheet copper bonded on one side with asphalt to creped, reinforced and waterproof kraft paper for flashings. Wasco Flashing Co. 558,265, Apr. 29; Serial No. 603,096, published Jan. 29, 1952.
Floor or wall tile, Fibre. Midwest Plywood Company. 558,232, Apr. 29; Serial No. 592,716, published Jan. 15, 1952.
Heat insulating material. Raybestos-Manhattan, Inc. 558,220, Apr. 29; Serial No. 585,247, published Jan. 15, 1952.
Hollow sheet metal units. Trussbilt Steel Doors, Inc. 294,095, renewed May 17, 1952. O. G. Apr. 29.
Lumber, Preserved. Taylor-Colquitt Co. 558,285, Apr. 29; Serial No. 609,423, published Jan. 15, 1952.
Metallic hardener. A. C. Horn Company. 294,002, renewed May 10, 1952. O. G. Apr. 29.
Protective coatings having a base of gilsonite and asphalt. Insul-Mastic Corporation of America. 558,269, Apr. 29; Serial No. 605,455, published Jan. 29, 1952.
Road oil and road binder. The Trinidad Lake Petroleum Company, Limited. 558,234, Apr. 29; Serial No. 592,851, published Jan. 29, 1952.
Sheathing material. Certain-teed Products Corporation. 558,259, Apr. 29; Serial No. 602,020, published Jan. 15, 1952.
Waterproofing compound for walls. A. C. Horn Company. 294,001, renewed May 10, 1952. O. G. Apr. 29.
Weather stripe. Gardner Wire Co. 291,260, renewed Feb. 2, 1952. O. G. Apr. 29.
Window frames, Steel sash, and steel sash metal surrounds. Radford Supply Company. 558,278, Apr. 29; Serial No. 607,901, published Jan. 15, 1952.
Window screens. Rudiger-Lang Co. 558,185, Apr. 29; Serial No. 537,733, published Jan. 29, 1952.

CLASS 13

Metal products. Geuder, Paeschke & Frey Co. 558,284, Apr. 29; Serial No. 609,362, published Nov. 6, 1951. (Consolidated certificate, Classes 13, 23, 24, and 26.)
Mounting hardware for doors and windows, door and window fixtures, etc. Edouard Dubied & Cie., Societe Anonyme. 558,188, Apr. 29; Serial No. 544,982, published Jan. 16, 1951.
Valves, Angle, check, globe, and gate. Manning, Maxwell & Moore, Incorporated. 558,196, Apr. 29; Serial No. 562,717, published May 29, 1951. (Consolidated certificate, Classes 13 and 23.)
Waiters, entree dishes, teasets, etc. William Adams, Ltd. 290,436, renewed Jan. 5, 1952. O. G. Apr. 29.

CLASS 14

Ferrous castings, Unfinished. International Harvester Company. 558,297, Apr. 29; Serial No. 612,805, published Jan. 22, 1952.
Iron and steel. Sandvikens Jernverks Aktiebolag. 283,348, renewed May 26, 1951. O. G. Apr. 29.
Metal angles and bars and metal bands, bevelled bars, etc. Atlantic Steel Company. 558,357, Apr. 29; Serial No. 616,273, published Jan. 22, 1952.
Molybdenum metal and molybdenum alloys, and tool and cutting steels. Universal Steel Company. 293,961, renewed May 10, 1952. O. G. Apr. 29.
Solder. Alpha Metals, Inc. 558,345, Apr. 29; Serial No. 614,922, published Jan. 22, 1952.
Solder, Automobile radiator and boiler. J. A. Lyne. 291,855, renewed Feb. 23, 1952. O. G. Apr. 29.
Steel and iron rods, etc. Page Steel and Wire Company. 288,450, renewed Oct. 27, 1951. O. G. Apr. 29.
Steel sheets, Galvanized. Inland Steel Company. 558,351, Apr. 29; Serial No. 615,776, published Jan. 22, 1952.
Welding rods. Air Reduction Sales Company. 291,059, renewed Jan. 26, 1952. O. G. Apr. 29.
Wire. The Youngstown Sheet and Tube Company. 558,337, Apr. 29; Serial No. 614,116, published Jan. 22, 1952.

CLASS 15

Cylinder-oil. Wm. C. Robinson & Son, Co. 85,998, re-renewed Apr. 2 1952. O. G. Apr. 29.
Grease, Lubricating. Tide Water Associated Oil Company. 558,304, Apr. 29; Serial No. 613,250, published Dec. 25, 1951.
Grease, Lubricating. Tide Water Associated Oil Company. 558,306–8, Apr. 29; Serial Nos. 613,254–6, published Dec. 25, 1951.
Grease, Lubricating. Tide Water Associated Oil Company. 558,310, Apr. 29; Serial No. 613,258, published Dec. 25, 1951.
Grease, Lubricating. Tide Water Associated Oil Company. 558,311, Apr. 29; Serial No. 613,260, published Dec. 25, 1951.
Grease, Lubricating. Tide Water Associated Oil Company. 558,313, Apr. 29; Serial No. 613,263, published Dec. 25, 1951.
Grease, Lubricating. United Petroleum Corporation. 558,186, Apr. 29; Serial No. 542,492, published Dec. 25, 1951.
Oil and greases, Lubricating. Tide Water Associated Oil Company. 558,309, Apr. 29; Serial No. 613,257, published Dec. 25, 1951.
Oil and greases, Lubricating. Tide Water Associated Oil Company. 558,312, Apr. 29; Serial No. 613,262, published Dec. 25, 1951.
Oil and greases, Lubricating. Tide Water Associated Oil Company. 558,314, Apr. 29; Serial No. 613,265, published Dec. 25, 1951.
Oil and greases, Lubricating. Tide Water Associated Oil Company. 558,315, Apr. 29; Serial No. 613,266, published Dec. 25, 1951.
Oil and greases, Lubricating. Tide Water Associated Oil Company. 558,317, Apr. 29; Serial No. 613,268, published Dec. 25, 1951.
Oil, Cylinder and engine. Wm. C. Robinson & Son Co. 85,997, re-renewed Apr. 2, 1952. O. G. Apr. 29.
Oil, Lubricating. Tide Water Associated Oil Company. 558,305, Apr. 29; Serial No. 613,251, published Dec. 18, 1951.
Oil, Lubricating. Tide Water Associated Oil Company. 558,316, Apr. 29; Serial No. 613,267, published Dec. 25, 1951.

Oils and greases, Lubricating. Standard Oil Company. 166,494, Apr. 3, 1923. Republished Apr. 29.
Oils, Refined, semirefined and unrefined. Sinclair Refining Company. 146,362, Sept. 6, 1921. Corrected. O. G. Apr. 29.
Petroleum and petroleum products. Richfield Oil Company. 290,239, renewed Dec. 22, 1951. O. G. Apr. 29.
Valve-oil. Wm. C. Robinson & Son, Co. 86,000, re-renewed Apr. 2, 1952. O. G. Apr. 29.

CLASS 16

Acid and alkali resistant synthetic resin base coating preparation, and solvent therefor. The Atlas Mineral Products Company of Pennsylvania. 558,218, Apr. 29; Serial No. 580,180, published Feb. 12, 1952.
Automobile coatings. National Automotive Parts Association. 558,373, Apr. 29; Serial No. 574,451, published Dec. 25, 1951.
Decorative coating. A. C. Horn Company. 293,483, renewed Apr. 26, 1952. O. G. Apr. 29.
Enamels, asphalt roof coatings, penetrating, quick drying, and creosote shingle stains, etc. Porter Paint Company. 558,228, Apr. 29; Serial No. 591,585, published Jan. 29, 1952.
Enamels, Liquid. Pittsburgh Plate Glass Company. 558,187, Apr. 29; Serial No. 544,279, published Jan. 1, 1952.
Enamels, Quick drying, house paint and flat paint. Hockaday, Inc. 558,280, Apr. 29; Serial No. 608,003, published Dec. 25, 1951.
Floor dressing compositions. Abco, Inc. 558,289, Apr. 29; Serial No. 610,159, published Jan. 29, 1952.
Lacquer. The Barbour Company. 558,251, Apr. 29; Serial No. 600,320, published Dec. 25, 1951.
Liquid linoleum finish in the nature of a protective coating. Phelan-Faust Paint Mfg. Co. 558,375, Apr. 29; Serial No. 533,363.
Liquid transparent resinous plastic solution. F. A. Twomey. 558,219, Apr. 29; Serial No. 582,152, published Jan. 1, 1952.
Mixture of varnish and wax. Huntington Laboratories, Inc. 294,950, renewed June 14, 1952. O. G. Apr. 29.
Paint, Cement base. The Paraffine Companies, Inc. 558,193, Apr. 29; Serial No. 558,586, published Jan. 1, 1952.
Paint, Decorative waterproof. A. C. Horn Company. 293,484, renewed Apr. 26, 1952. O. G. Apr. 29.
Paint, Enamel. Sapolin Paints Inc. 558,393, Apr. 29; Serial No. 602,781.
Paint finish, Industrial. M. A. Bruder & Sons, Incorporated. 558,264, Apr. 29; Serial No. 603,044, published Jan. 1, 1952.
Paints and lacquers. Dagmar Chemical Company. 414,280, June 5, 1945. Republished Apr. 29.
Paints and varnishes, Touch-up. Senior Chemical Co. 558,395, Apr. 29; Serial No. 606,729.
Paints, Marine. H. B. F. Kuhls. 558,229, Apr. 29; Serial No. 591,786, published Dec. 25, 1951.
Paints, Marine, house, roof, etc., varnishes, laquers, etc. The Glidden Company. 558,213, Apr. 29; Serial No. 579,275, published Dec. 25, 1951.
Paints, Marine, house, roof, etc., varnishes, laquers, etc. The Glidden Company. 558,214, Apr. 29; Serial No. 579,277, published Dec. 25, 1951.
Paints, Ready mixed. Aluminum Industries, Inc. 290,876, renewed Jan. 19, 1952. O. G. Apr. 29.
Paints, Ready-mixed, and enamels. The Wilbur & Williams Company. 558,225, Apr. 29; Serial No. 590,119, published Jan. 1, 1952.
Paints, Ready-mixed antifouling bottom. International Paint Company, Inc. 558,352, Apr. 29; Serial No. 615,980, published Jan. 15, 1952.
Paints, Ready mixed exterior and interior, interior and exterior paint, paint enamels, etc. The Foy Paint Company, Inc. 558,238, Apr. 29; Serial No. 595,539, published Dec. 25, 1951.
Paints, Ready mixed gloss, undercoat paints, enamels, etc. Jenson & Nicholson Limited. 558,223, Apr. 29; Serial No. 589,095, published Jan. 29, 1952.
Pigments and colors for paints. Reckitt & Colman Limited. 558,261, Apr. 29; Serial No. 602,286, published Dec. 25, 1951.
Pore sealers, and flexible finish coating lacquers. M. B. Duffy. 558,210, Apr. 29; Serial No. 576,528, published Dec. 25, 1951.
Varnish. Huntington Laboratories, Inc. 294,951, renewed June 14, 1952. O. G. Apr. 29.

CLASS 17

Cigars. General Cigar Co., Inc. 290,939, renewed Jan. 19, 1952. O. G. Apr. 29.
Cigars. United Cigar Manufacturers Company. 86,487, re-renewed May 7, 1952. O. G. Apr. 29.

CLASS 18

Analgesic and hypnotic. G. S. Stoddard & Co., Inc. 558,270, Apr. 29; Serial No. 605,561, published Dec. 18, 1951.
Animal feed supplement. Bristol Laboratories Inc. 558,329, Apr. 29; Serial No. 613,704, published Dec. 25, 1951.
Antiseptic solution. S and B Chemical Company. 289,547, renewed Dec. 1, 1951. O. G. Apr. 29.
Antiseptic solution. Peoples Drug Stores, Inc. 293,621, renewed May 3, 1952. O. G. Apr. 29.
Antispasmodic sedative tablets. Steel Pharmaceutical Co. Inc. 558,237, Apr. 29; Serial No. 595,012, published Dec. 25, 1951.
Cathartic pills, Sugar coated. Lanman & Kemp. 85,141, re-renewed Jan. 30, 1952. O. G. Apr. 29.
Chemical compound which is useful as an anti-asthmatic. E. Bilhuber, Inc. 558,240, Apr. 29; Serial No. 596,709, published Dec. 25, 1951.
Compositions comprising the antibiotics neomycin and bacitracin. Commercial Solvents Corporation. 558,262, Apr. 29; Serial No. 602,496, published Dec. 25, 1951.
General analgesic. Kedrin Pharmacals, Inc. 558,302, Apr. 29; Serial No. 613,075, published Dec. 25, 1951.
Internal preparations as medicines and nutritional adjuvants. Dr. Salsbury's Laboratories. 558,235, Apr. 29; Serial No. 593,504, published Dec. 18, 1951.
Laxative. Whits Laboratories, Inc. 558,303, Apr. 29; Serial No. 613,151, published Dec. 25, 1951.
Medical compound. Desitin Chemical Co. 558,318, Apr. 29; Serial No. 613,292, published Dec. 25, 1951.
Medicinal preparation. Organon Inc. 558,299, Apr. 29; Serial No. 612,819, published Dec. 18, 1951.
Medicinal preparations. Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft. 291,398, renewed Feb. 9, 1952. O. G. Apr. 29.
Ointment. Potter Drug & Chemical Corporation. 36,921, re-renewed Aug. 20, 1951. O. G. Apr. 29.
Preparation for the treatment and control of coccidiosis in chickens, etc. Dr. Salsbury's Laboratories. 558,242, Apr. 29; Serial No. 597,101, published Dec. 18, 1951.
Preparation for the treatment of bronchitis and colds in poultry. The Gland-O-Lac Company. 292,827, renewed Mar. 29, 1952. O. G. Apr. 29.
Preparation used in gastric affections. Laboratoires Longuet, Societe a Responsabilite Limitee. 293,406, renewed Apr. 19, 1952. O. G. Apr. 29.
Preparation used in the treatment of disordered functions of the nasal mucous membranes. J. Romano. 293,825, renewed May 10, 1952. O. G. Apr. 29.
Solution of an active principle of the pancreas having influence upon the circulation, etc. The Harrower Laboratory, Inc. 290,743, renewed Jan. 12, 1952. O. G. Apr. 29.
Suppositories, vaginal cones, a beef-juice tonic, etc. Henry K. Wampole & Company, Incorporated. 87,022, re-renewed June 18, 1952. O. G. Apr. 29.
Tablets which produce a refreshing and antiseptic solution when mixed with water and used as a vaginal douche. Dr. Pierre Chemical Company. 558,271, Apr. 29; Serial No. 605,763, published Jan. 29, 1952.

CLASS 19

Devices of flexible reciprocating shaft type for transmitting power for operating brakes. American Cable Company, Inc. 288,067, renewed Oct. 20, 1951. O. G. Apr. 29.

CLASS 20

Linoleum and similar hard surfaced floor coverings. Armstrong Cork Products Company. 342,000. Dec. 29, 1936. Republished Apr. 29.

CLASS 21

Electric dry cell batteries. The Electric Storage Battery Company. 293,925, renewed May 10, 1952. O. G. Apr. 29.
Electric floor finishing machines. Holt Manufacturing Company. 558,384, Apr. 29; Serial No. 586,217.
Electric generators, electric motors, domestic lighting plants and magnetos. Fairbanks, Morse & Co. 410,887, Dec. 26, 1944. Republished Apr. 29.
Electrical appliances and supplies. Tesla, Slaboproudé a Radiotechnické Závody, Národní Podnik. 558,377, Apr. 29; Serial No. 552,098.
Lamps, Portable electric floor and table. P. C. Calissi. 558,391, Apr. 29; Serial No. 600,117.
Line terminating units, resistor units, resistor-capacitance terminating units. RCA Victor Company, Inc. 290,614, renewed Jan. 12, 1952. O. G. Apr. 29.
Loud speakers, Radio. Jensen Radio Manufacturing Company. 288,872, renewed Nov. 10, 1951. O. G. Apr. 29.
Steel and iron magnet core wire. Page Steel and Wire Company. 288,101, renewed Oct. 20, 1951. O. G. Apr. 29.

CLASS 22

Clay pigeons. The Chamberlin Cartridge & Target Co. 292,568, renewed Mar. 15, 1952. O. G. Apr. 29.
Dressing for fish lines and dry flies. The Enterprise Manufacturing Company. 291,380, renewed Feb. 9, 1952. O. G. Apr. 29.
Fish stringers. The Enterprise Manufacturing Company. 291,382, renewed Feb. 9, 1952. O. G. Apr. 29.
Fishing reels. The Enterprise Manufacturing Company 291,374, renewed Feb. 9, 1952. O. G. Apr. 29.
Fishing reels. The Enterprise Manufacturing Company. 291,714, renewed Feb. 23, 1952. O. G. Apr 29.
Fishline leaders. The Enterprise Manufacturing Company. 291,792, renewed Feb. 23, 1952. O. G. Apr. 29.

Golf balls. T. B. Semans, Jr. 558,326, Apr. 29; Serial No. 613,606, published Feb. 12, 1952.
Paddle boards and kick boards. Aqua Glide Company. 558,268, Apr. 29; Serial No. 601,865, published Feb. 12, 1952.
Popguns, air rifles, toy airplanes, etc. All Metal Products Company. 286,966, renewed Sept. 8, 1951 O. G. Apr. 29.
Shuttlecocks. W. R. Richards. 558,263, Apr. 29; Serial No. 602,913, published Feb. 5, 1952.
Sinkers The Enterprise Manufacturing Company. 291,381, renewed Feb. 9, 1952. O. G. Apr. 29.
Toy crayon, embroidery, and paint sets. Standard Toykraft Products, Inc. 558,290, Apr. 29; Serial No. 611,155, published Feb. 5, 1952.
Toy return tops M. Shimmel Sons. 558,319, Apr. 29; Serial No. 613,308, published Feb. 12, 1952.

CLASS 23

Gas mixture apparatus, carburetors, etc. "Selas" Gesellschaft Mit Beschrinkter Haftung. 84,344, Nov. 28, 1911. Republished Apr. 29.
Injectors for feeding water into boilers. Manning, Maxwell & Moore, Incorporated. 558,196, Apr. 29; Serial No 614,211, published Sept. 11, 1951. (Consolidated certificate, Classes 13 and 23.)
Internal combustion engines. Fairbanks, Morse & Co. 131,456, May 18, 1920. Republished Apr. 29.
Internal-combustion engines. The Sunbeam Motor Car Co., Ltd. 283,204, renewed May 19, 1951. O. G. Apr 29.
Machinery and apparatus for sterilising food and other products. Products Protection Corporation. 292,424, renewed Mar. 15, 1952. O. G. Apr. 29.
Milk stirrers, shovels, and can crushers. Geuder, Paeschke & Frey Co. 558,284, Apr. 29; Serial No. 609,363, published Oct. 16, 1951. (Consolidated certificate, Classes 13, 23, 24, and 26.)
Post hole digger for attachment to tractors. H. B. Adams. 558,374, Apr. 29; Serial No. 507,609.
Saws, axes, chisels, etc. Sandvikens Jernverks Aktiebolag. 283,612, renewed June 2, 1951. O. G. Apr. 29

CLASS 24

Ironing tables and wash tubs. Geuder, Paeschke & Frey Co. 558,284, Apr. 29; Serial No. 609,364, published Oct. 23, 1951. (Consolidated certificate, Classes 13, 23, 24, and 26.)
Laundry washing machines and ironing machines. Fairbanks, Morse & Co. 352,065, Nov. 16, 1937. Republished Apr. 29.
Laundry washing machines and ironing machines. Fairbanks, Morse & Co. 352,246, Nov. 23, 1937. Republished Apr. 29.

CLASS 26

Camera tripods. B. J. Pagliuso. 558,300, Apr. 29; Serial No. 613,019, published Dec. 18, 1951.
Cameras, photographic projection printers and stereoscopic X-ray cameras. D. F. Winnek. 444,686, Apr. 29; Serial No. 519,502, published Dec. 18, 1951.
Cast metal hand tool for planting, cultivating and measuring Melso Manufacturing Company. 558,227, Apr. 29; Serial No. 591,434, published Dec. 18, 1951.
Coin meters. New York Telecoin Corporation. 558,356, Apr. 29; Serial No. 616,182, published Dec. 25, 1951.
Contact lenses. The House of Vision-Belgard-Spero, Inc. 442,009, Feb 8, 1949. Republished Apr. 22, 1952.
Electrical temperature control mechanism. The Delaware, Lackawanna & Western Coal Company. 558,203, Apr. 29; Serial No. 571,119, published Dec. 18, 1951.
Eyeglasses, optical lenses, spectacle frames, etc. The House of Vision-Belgard-Spero, Inc. 430,936, July 1, 1947. Republished Apr. 29.
Machines for weighing and sorting sheet material, etc. The Aetna-Standard Engineering Company. 558,296, Apr. 29; Serial No. 612,642, published Dec. 18, 1951.
Optical lenses. Optical Development Corporation. 558,336, Apr. 29; Serial No. 614,096, published Dec. 18, 1951.
Pose-reflecting photographic apparatus. Photoreflex of New England, Incorporated. 291,336, renewed Feb. 9, 1952. O. G. Apr. 29.
Power shovel and loader bucket level indicators. Ottawa Steel Products, Inc. 558,283, Apr. 29; Serial No. 608,471, published Dec. 18, 1951.
Pre-sensitised printing plates. Minnesota Mining & Manufacturing Company. 558,360, Apr. 29; Serial No. 616,778, published Dec. 18, 1951.
Test instruments, Electronic. Electronic Instrument Co., Inc. 558,243, Apr. 29; Serial No. 597,199, published Dec. 18, 1951.
Utility measures. Geuder, Paeschke & Frey Co. 558,284, Apr. 29; Serial No. 609,365, published Dec. 18, 1951. (Consolidated certificate, Classes 13, 23, 24, and 26.)
Vibro-magnetic inspection instrument. Sonoflux Corporation. 558,222, Apr. 29; Serial No. 588,971, published Dec. 18, 1951.

CLASS 31

Refrigerated locker units. W. M. Baird. 558,181, Apr. 29; Serial No. 528,246, published Aug. 10, 1948.

CLASS 32

Beds, bed springs, mattresses, etc. The Rome Company, Inc. 291,992, renewed Mar. 1, 1952. O. G. Apr. 29.
Insulator pads and protector pads used in the construction of mattresses and box springs. Sealy, Incorporated. 558,204, Apr. 29; Serial No. 571,748, published Feb. 5, 1952.
Mattresses, bed box springs, and pillows. Dixie Cotton Felt Mattress Company. 85,420, re-renewed Feb. 20, 1952. O. G. Apr. 29.
Mattresses, bed-springs, mattress pads, etc. Burton-Dixie Corporation. 292,811, renewed Mar. 29, 1952. O. G. Apr. 29.
Padding for seat cushions and mattresses. Burton-Dixie Corporation. 291,466, renewed Feb. 9, 1952. O. G. Apr. 29.

CLASS 33

Watch crystals. Brozen Bros. Watch Crystal Co. Inc. 293,804, renewed May 3, 1952. O. G. Apr. 29.

CLASS 35

Belting and packing composed of rubber and fabric. United States Rubber Company. 288,179, Oct. 20, 1931. Republished Apr. 22, 1952.
Fluid and gas conducting hose. C. A. Norgren Co. 558,362, Apr. 29; Serial No. 617,050, published Feb. 5, 1952.
Packing rings and packing glands. The Victaulic Company Limited. 558,346, Apr. 29; Serial No. 615,198, published Feb. 12, 1952.
Power transmission belting. Manheim Manufacturing & Belting Company. 558,358, Apr. 29; Serial No. 616,638, published Jan. 29, 1952.
Rubber hose and rubber and fabric hose, elevator belt, etc. Lee Rubber & Tire Corporation. 558,359, Apr. 29; Serial No. 616,655, published Jan. 29, 1952.
Tires, Pneumatic, and inner tubes for vehicles. Manufacture de Caoutchouc Michelin. 558,274, Apr. 29; Serial No. 606,619, published Feb. 5, 1952.
Welding hose. Smith Welding Equipment Corporation. 558,389–90, Apr. 29; Serial Nos. 599,268–9.

CLASS 36

Accordions. Buegeleisen & Jacobson, Inc. 558,272, Apr. 29; Serial No. 606,263, published Feb. 12, 1952.
Phonograph needles. Decca Records, Inc. 558,169, Apr. 29; Serial No. 549,057, published Jan. 16, 1952.

CLASS 37

Erasers, Rubber. Faber Eberhard Pencil Company. 558,224, Apr. 29; Serial No. 589,201, published May 22, 1951.
Index tabs and holders, and inserts therefor. Remington Rand, Inc. 292,508, renewed Mar. 15, 1952. O. G. Apr. 29.
Paper, Bond. Millers Falls Paper Company. 291,818, renewed Feb. 23, 1952. O. G. Apr. 29.
Paper, Coated, suitable for printing. Ireland & Taub Paper Company, Inc. 290,804, Jan. 19, 1932. Republished Apr. 22, 1952.
Paper, Ledger and bond. Byron Weston Company. 293,696, renewed May 3, 1952. O. G. Apr. 29.
Paper, Ledger and bond. Byron Weston Company. 293,760, renewed May 3, 1952. O. G. Apr. 29.
Paper, Toilet. Stevens & Thompson Paper Co. 291,905, Feb. 23, 1932. Corrected. O. G. Apr. 29.
Paper, Writing and printing, mailing envelopes, announcement cards, etc. Old Colony Envelope Company. 291,668, renewed Feb. 23, 1952. O. G. Apr. 29.
Photograph folders and mounts. Photoreflex of New England, Incorporated. 290,458, renewed Jan. 5, 1952. O. G. Apr. 29.
Price book fillers, loose-leaf fillers, typewriter paper, etc. White & Wyckoff Mfg. Co. 290,801, renewed Jan. 19, 1952. O. G. Apr. 29.

CLASS 38

Advertising matter. Hodes-Wallach Co. Inc. 291,783, renewed Feb. 23, 1952. O. G. Apr. 29.
Magazine. Popular Mechanics Company. 290,859, renewed Jan. 19, 1952. O. G. Apr. 29.
Newspaper section. News Syndicate Co. Inc. 294,393, renewed May 24, 1952. O. G. Apr. 29.

CLASS 39

Boots and shoes. Endicott Johnson Corporation. 294,854, renewed June 7, 1952. O. G. Apr. 29.
Boots and shoes. Endicott Johnson Corporation. 295,828, renewed June 28, 1952. O. G. Apr. 29.
Brassières, girdles, and corsets. I. B. Kleinert Rubber Company. 293,972, renewed May 10, 1952. O. G. Apr. 29.
Caps, jackets, sweaters, etc., Boys' and girls'. Grand Aerie Fraternal Order of Eagles. 558,279, Apr. 29; Serial No. 607,998, published Dec. 25, 1951.
Corsets, brassières, and girdles. Vanity Brassiere Company, Inc. 295,499, renewed July 5, 1952. O. G. Apr. 29.

Dresses, frocks, and blouses, Women's, misses' and junior misses'. Alex Carafiol, Inc 558,184, Apr. 29; Serial No. 534,997, published Oct. 9, 1951.
Hats and hat bodies, Men's, women's, and children's. Merrimac Hat Corporation. 444,685, Apr. 29; Serial No. 507,995, published July 17, 1951.
Hats for women. Hodshorn-Berg, Incorporated. 295,496, renewed July 5, 1952. O. G. Apr. 29.
Jeans. Oklahoma Clothing Manufacturers. 558,233, Apr. 29; Serial No. 592,829, published Dec. 18, 1951.
Millinery, Ladies'. E. Oxman. 558,200, Apr. 29; Serial No. 567,425, published Jan. 29, 1952.
Shirt blouses, Ladies' and misses'. Livingston & Livingston. 558,350, Apr. 29; Serial No. 615,459, published Feb. 5, 1952.
Shirts, Men's dress, negligee, or work. A. I. Namm & Son. 290,146, renewed Dec, 22, 1951. O. G. Apr. 29.
Shirts, Negligee, pajamas, and underwear. The Manhattan Shirt Company. 295,412, renewed June 28, 1952. O. G. Apr. 29.
Slips, petticoats, nightgowns, etc. Rainbow Shops, Inc. 558,183, Apr. 29; Serial No. 534,672, published Sept. 13, 1949.
Underwear, Women's and misses'. Fairy Silk Mills, Inc. 293,637, renewed May 3, 1952. O. G. Apr. 29.

CLASS 40

Safety-pins. Oakville Company. 85,275, re-renewed Feb. 6, 1952. O. G. Apr. 29.
Safety-pins. Oakville Company. 85,277, re-renewed Feb. 6, 1952. O. G. Apr. 29.
Safety-pins. Oakville Company. 85,279, re-renewed Feb. 6, 1952. O. G. Apr. 29.
Snap-buttons. Waldes & Cie. 86,648, re-renewed May 21, 1952. O. G. Apr. 29.
Toilet-pins and safety-pins. Oakville Company. 85,676, re-renewed Mar. 5, 1952. O. G. Apr. 29.

CLASS 42

Curtains, Window. Bartmann & Bixer, Inc. 558,341–2, Apr. 29; Serial Nos. 614,538–4, published Feb. 5, 1952.
Embroidered, printed or lace-trimmed goods. The American Fabrics Company. 558,239, Apr. 29; Serial No. 595,928, published July 3, 1951.
Fabrics, Awning. Glen Raven Cotton Mills, Inc. 558,301, Apr. 29; Serial No. 613,063, published Feb. 5, 1952.
Fabrics, Drapery and upholstery. Linen Guild, Inc. 558,298, Apr. 29; Serial No. 612,809, published Feb. 5, 1952.
Fabrics, Finished cotton. The Millville Manufacturing Company. 558,286, Apr. 29; Serial No. 609,488, published Feb. 5, 1952.
Fabrics in the piece, Lace. I. Zendman, Inc. .558,338, Apr. 29; Serial No. 614,327, published Feb. 5, 1952.
Fabrics in the piece, Textile. Burlington Mills Corporation. 558,364, Apr. 29; Serial No. 618,480, published Feb. 5, 1952.
Fabrics in the piece, Textile. D. B. Fuller & Co., Inc. 558,334, Apr. 29; Serial No. 614,047, published Feb. 5, 1952.
Fabrics, Knitted, netted and textile metalised coated, and uncoated, and plastic film. Funwood, Inc. 558,215, Apr. 29; Serial No. 579,406, published June 19, 1951.
Fabrics, Rayon. Willow Fabrics, Incorporated. 558,295, Apr. 29; Serial No. 611,988, published Feb. 5, 1952.
Laprobes. Portland Woolen Mills, Inc. 558,195, Apr. 29; Serial No. 562,665, published Feb. 5, 1952.
Piece goods, Dyed. Durand & Huguenin A. G. 291,843, renewed Feb. 23, 1952. O. G. Apr. 29.
Piece goods, Woolen. H. Feld. 558,250, Apr. 29; Serial No. 599,755, published Oct. 16, 1951.
Piece goods, Woolen. Forstmann Woolen Co. 558,320–4, Apr. 29; Serial Nos. 613,442–6, published Feb. 5, 1952.
Piece goods, Woolen, mohair piece goods, etc. Goodall Worsted Co. 108,511, Feb. 15, 1916. Republished Apr. 22, 1952.
Textile carpeting. National Automotive Fibres, Inc. 558,247, Apr. 29; Serial No. 598,492, published Feb. 5, 1952.
Textile rugs. Bigelow-Sanford Carpet Company, Inc. 558,331–2, Apr. 29; Serial Nos. 613,968–9, published Feb. 5, 1952.

CLASS 43

Thread and yarn. American Cyanamid Company. 558,354, Apr. 29; Serial No. 616,071, published Feb. 5, 1952.
Thread and yarn. American Cyanamid Company. 558,355, Apr. 29; Serial No. 616,074, published Feb. 5, 1952.
Yarn, Knitting. Emile Bernat & Sons Company. 558,325, Apr. 29; Serial No. 613,495, published Feb. 5, 1952.

CLASS 44

Absorbent cotton, absorbent gauze, and sanitary napkins. San-Nap-Pak Mfg. Co., Inc. 289,316, renewed Nov. 24, 1951. O. G. Apr. 29.
Cabinet mounted apparatus for the irradiation of blood plasma and other liquid biologics. Hanovia Chemical and Manufacturing Company. 558,230, Apr. 29; Serial No. 592,030, published Jan. 22, 1952.
Dental impression powder and duplicating powder. Opotow Dental Manufacturing Corp. 558,340, Apr. 29; Serial No. 614,509, published Jan. 22, 1952.
First aid equipment. The Pac-Kit Company. 558,205, Apr. 29; Serial No. 572,445, published Jan. 22, 1952.
Hair drier attachment for vacuum cleaners. A. L. Jones. 558,333, Apr. 29; Serial No. 613,995, published Jan. 22, 1952.
Hair waving pads. The Nestle-LeMur Company. 293,714, renewed May 3, 1952. O. G. Apr. 29.
Leather wrist bands, elastic wristbands, anklets, etc., used for therapeutic purposes. J. Colm. 558,191, Apr. 29; Serial No. 557,115, published Jan. 22, 1952.
Prophylactics. J. L. Harris. 558,257, Apr. 29; Serial No. 601,729, published Jan. 22, 1952.
Sanitary belts and sanitary panty shields. The Formfit Company. 558,349, Apr. 29; Serial No. 615,450, published Jan. 22, 1952.
Sanitary napkins. The Sterilek Company, Inc. 287,567, renewed Sept. 29, 1951. O. G. Apr. 29.
Sanitary napkins. The Sterilek Company, Inc. 289,916, renewed Dec. 15, 1951. O. G. Apr. 29.
Stainless steel mesh for surgical use. Davis & Geck, Inc. 558,348, Apr. 29; Serial No. 615,373, published Jan. 22, 1952.
Thermometers, Clinical, surgeons' gloves (rubber), catheters, etc. Will Ross, Inc. 558,281, Apr. 29; Serial No. 606,083, published Jan. 22, 1952.

CLASS 46

Apricots, Dried, dried apples, dried peaches, etc. The H. D. Lee Mercantile Co. 86,067, re-renewed Apr. 9, 1952. O. G. Apr. 29.
Baking mixes. Kitchen Art Foods, Inc. 558,182, Apr. 29; Serial No. 532,463, published Feb. 12, 1952.
Candies. W. J. Bogdon. 558,383, Apr. 29; Serial No. 584,793.
Candy. Barricini Inc. 558,198, Apr. 29; Serial No. 566,116, published Dec. 4, 1951.
Candy, Idaho Candy Company. 294,863, renewed June 7, 1952. O. G. Apr. 29.
Canned fish. Safeway Stores, Incorporated. 558,276, Apr. 29; Serial No. 607,195, published Dec. 25, 1951.
Canned fruits and canned vegetables. Sutter Cooperative Growers. 285,178, renewed July 14, 1951. O. G. Apr. 29.
Canned oysters, canned crabmeat and canned shrimp. McPhillips Packing Corporation. 558,275, Apr. 29; Serial No. 607,031, published Dec. 4, 1951.
Canned peaches. Wood Canning Company. 558,217, Apr. 29; Serial No. 579,642, published Jan. 1, 1952.
Canned, pickled, and salted fish. Herrero Hermanos S. A. 558,199, Apr. 29; Serial No. 566,586, published Feb. 5, 1952.
Canned salmon and shrimp. Benson Fish Company. 294,427, renewed May 24, 1952. O. G. Apr. 29.
Canned sardines. J. H. Mercian. 84,403, re-renewed Dec. 12, 1951. O. G. Apr. 29.
Canned vegetables. Can-Rite Food Products Company. 558,382, Apr. 29; Serial No. 583,142.
Chemical compound composed principally of salt, sugar and various other chemicals used for pickling and curing meats. B. Heller & Company. 558,380, Apr. 29; Serial No. 573,550.
Coffee. Eppens, Smith Company, Inc. 558,394, Apr. 29; Serial No. 604,961.
Confectionery. Sweets Company of America, Inc. 295,641, renewed July 5, 1952. O. G. Apr. 29.
Crackers, Fancy. Georgia Cracker Co. 558,379, Apr. 29; Serial No. 570,698.
Eggs, Fresh, ham, bacon and sausage. Armour and Company. 558,376, Apr. 29; Serial No. 543,866.
Feeds, Poultry and livestock. Northrup, King & Co. 558,287, Apr. 29; Serial No. 609,565, published Dec. 4, 1951.
Filling for marshmallow goods, meringues, macaroons, etc. H. H. Ottens. 37,897, re-renewed Mar. 4, 1952. O. G. Apr. 29.
Fish, Frozen fresh, frozen fresh shellfish, and canned fish. Tom Lazio Fish Company, Inc. 558,392, Apr. 29; Serial No. 600,176.
Flour, Roasted barley. Food Cereals, Inc. 558,388, Apr. 29; Serial No. 598,721.
Flour, Wheat. Flour Mills of America, Inc. 558,190, Apr. 29; Serial No. 553,600, published Dec. 11, 1951.
Flour, Wheat. General Mills, Inc. 293,896, renewed May 10, 1952. O. G. Apr. 29.
Flour, Wheat. The Loudonville Milling Company. 291,929, renewed Feb. 23, 1952. O. G. Apr. 29.
Flour, Wheat, pancake flour, buck-wheat pancake flour, etc. C. A. Southwick, Jr. 558,246, Apr. 29; Serial No. 598,393, published Feb. 12, 1952.
Flour, Wheat, stock and poultry feeds. Owensboro Milling Co. Incorporated. 290,731, renewed Jan. 12, 1952. O. G. Apr. 29.
Food product, Specially prepared. Mead Johnson & Company. 295,757, renewed July 12, 1952. O. G. Apr. 29.
Frozen confections on sticks. Joe Lowe Corporation. 558,381, Apr. 29; Serial No. 577,202.
Fruit preserves, canned fruits, jams, etc. Valea y Compania. 558,385, Apr. 29; Serial No. 588,408.
Icing-powder for cakes and confectionery. H. H. Ottens. 38,075, re-renewed Apr. 8, 1952. O. G. Apr. 29.

Melons, Fresh. Los Banos Produce Distributors. 558,378, Apr. 29; Serial No. 568,064.
Milk, cream, butter, etc. Henry Becker & Son, Inc. 293,844, renewed May 10, 1952. O. G. Apr. 29.
Red bone marrow and malt extract. Virol, Limited. 37,976, re-renewed Mar. 25, 1952. O. G. Apr. 29.
Rice, Milled. Edmundson-Dube Rice Mill Co. Inc. 558,397, Apr. 29; Serial No. 617,954.
Salt. Avery Salt Company. 292,781, renewed Mar. 29, 1952. O. G. Apr. 29.
Tea, ground cinnamon, orange flavoring extract, etc. Plunkett-Jarrell Grocer Company. 86,761, re-renewed May 28, 1952. O. G. Apr. 29.
Wheat-flour. Duluth-Superior Milling Company. 87,053, re-renewed June 25, 1952. O. G. Apr. 29.
Wheat-flour. The Southwestern Milling Company. 87,271, re-renewed July 2, 1952. O. G. Apr. 29.

CLASS 47

Wines. California Fruit Products Co. Inc. 331,947, Jan. 28, 1936. Republished Apr. 22, 1952.

CLASS 48

Ale. Whitbread & Company Limited. 81,420, re-renewed Apr. 4, 1951. O. G. Apr. 29.
Ale, mild ale, porter and beer. Hampden Brewing Company. 355,989, Apr. 5, 1938. Republished Apr. 22, 1952.

CLASS 49

Whiskies, brandies, rums, etc., Various. Eddy & Fisher, Inc. 338,468, Sept. 8, 1936. Republished Apr. 22, 1952.

CLASS 50

Artificial snow for ornamenting Christmas trees. Modern-Militex Corp. 558,396, Apr. 29; Serial No. 609,185.
Automatic feeder. Lorraine Lighting Products Co. 558,252, Apr. 29; Serial No. 600,385, published Feb. 5, 1952.

CLASS 51

Cleaning powder and stain remover for artificial plates and teeth. The Denaco Agency. 294,133, renewed May 17, 1952. O. G. Apr. 29.
Deodorants. Max Factor & Co. 292,237, renewed Mar. 8, 1952. O. G. Apr. 29.
Hair cream. Parfums Forvil & Dentifrices du Docteur Pierre Reunis, Societe Anonyme. 558,343, Apr. 29; Serial No. 614,641, published Jan. 29, 1952.
Laxative pills, liniment for external use, hair tonic, etc. Lanman & Kemp-Barclay & Co., Incorporated. 294,791, renewed June 7, 1952. O. G. Apr. 29.
Lipstick, foundation cream, cream rouge, etc. Peter Vest Sales Corporation. 558,327–8, Apr. 29; Serial Nos. 613,658–9, published Jan. 29, 1952.
Lotions, Hand, and skin fresheners. W. J. Nash. 558,282, Apr. 29; Serial No. 608,212, published Jan. 29, 1952.
Nail enamel and lipstick. Revlon Products Corporation. 558,291–2, Apr. 29; Serial Nos. 611,488–9, published Jan. 29, 1952.
Perfumes, toilet water, face powder, etc. Houbigant, Inc. 295,769, renewed July 12, 1952. O. G. Apr. 29.
Perfumes, toilet water, face powder, etc. Houbigant, Inc. 295,772, renewed July 12, 1952. O. G. Apr. 29.
Perfumes, toilet water, face powder, etc. Houbigant, Inc. 295,778, renewed July 12, 1952. O. G. Apr. 29.
Powder foundation cream; makeup foundation, face cream used as a powder base, etc. Max Factor & Co. 292,325, renewed Mar. 15, 1952. O. G. Apr. 29.
Powder foundation cream; makeup foundation, a face cream used as a powder base; etc. Max Factor & Co. 292,646, renewed Mar. 22, 1952. O. G. Apr. 29.
Rouge compositions, Lip. L. G. Grate. 558,277, Apr. 29; Serial No. 607,857, published Dec. 25, 1951.

CLASS 52

Compositions for cleaning and reconditioning asphalt tile floors, cleaners for surfaces of automobiles, etc. Franklin Research Company. 558,254, Apr. 29; Serial No. 600,475, published Jan. 22, 1952.
Detergent. W. G. Mercer. 558,335, Apr. 29; Serial No. 614,053, published Jan. 22, 1952.
Detergent. Roberts-Modaber, Inc. 558,273, Apr. 29; Serial No. 606,327, published Jan. 22, 1952.
Detergent, Dry. Fels and Company. 558,288, Apr. 29; Serial No. 609,719, published Jan. 22, 1952.
Detergent, Non-soap. The Diversey Corporation. 558,178, Apr. 29; Serial No. 496,070, published Mar. 23, 1948.
Dry cleaning substance which may be used in dry or moist condition for removing spots, etc. Smith Brothers. 558,256, Apr. 29; Serial No. 601,646, published Jan. 22, 1952.
Granular chemical product. The Diversey Corporation. 558,179, Apr. 29; Serial No. 513,811, published Jan. 4, 1949.
Hair shampoo. La Maur, Incorporated. 558,267, Apr. 29; Serial No. 603,691, published Dec. 25, 1951.
Preparation for cleaning tile, porcelain, marble floors, etc. Sterling Products Company. 290,650, renewed Jan. 12, 1952. O. G. Apr. 29.
Shampoos. E. Schueller. 558,244, Apr. 29; Serial No. 597,298, published Jan. 22, 1952.
Shampoos, Cocoanut oil, upholstery and rug shampoos, hand cleaners, etc. Stanley Home Products, Inc. 558,245, Apr. 29; Serial No. 597,792, published Jan. 22, 1952.
Slightly acid mixture of metallic phosphates and wetting agents. Industrial Chemical Products Co. 558,221, Apr. 29; Serial No. 585,847, published Jan. 29, 1952.
Soap. Colgate-Palmolive-Peet Company. 558,201, Apr. 29; Serial No. 568,098, published Sept. 27, 1949.
Soap, Benzo-alcoholic. G. Mazzetti. 558,268, Apr. 29; Serial No. 603,717, published Jan. 22, 1952.
Soap compound, Dry cleaning. Takamine Laboratory, Inc. 558,248, Apr. 29; Serial No. 598,760, published Jan. 29, 1952.
Soap, Leather and saddle. B. Beddow and Sons Limited. 292,456, renewed Mar. 15, 1952. O. G. Apr. 29.
Soap preparation, Antiseptic. G. H. Wood & Company Limited. 558,339, Apr. 29; Serial No. 614,476, published Jan. 29, 1952.
Soaps. Lanman & Kemp-Barclay & Co., Incorporated. 292,499–500, renewed Mar. 15, 1952. O. G. Apr. 29.
Soaps. Lanman & Kemp-Barclay & Co., Incorporated. 293,095, renewed Apr. 12, 1952. O. G. Apr. 29.
Soaps and detergents. American Alcolac Corporation. 558,241, Apr. 29; Serial No. 596,967, published Jan. 22, 1952.
Sponge having a pocket therein and a cake of soap in said pocket. C. F. J. Dupuy. 558,255, Apr. 29; Serial No. 601,029, published Jan. 22, 1952.

CLASS 100

Serving and dispensing food and beverages in restaurants. White Tower Management Corporation. 558,371, Apr. 29; Serial No. 605,186, published Feb. 5, 1952.

CLASS 101

Advertising services, General. The Answer Man. 558,365, Apr. 29; Serial No. 540,693, published Feb. 5, 1952.
Leasing of copying machines and equipment. The Haloid Company. 558,372, Apr. 29; Serial No. 610,557, published Feb. 5, 1952.
Preparation of single slugs or bars of multigraph type according to particular requirements and the rental thereof, etc. J. Sacks. 545,021, July 10, 1951. Corrected. O. G. Apr. 29.

CLASS 102

Services namely, the underwriting of casualty, fire, etc., insurance. Selected Risks Indemnity Company. 558,367, Apr. 29; Serial No. 569,481, published Feb. 5, 1952.

CLASS 104

Radio program broadcasting services. United Broadcasting Company. 558,398, Apr. 29; Serial No. 561,174.
Radio program broadcasting services. United Broadcasting Company. 558,399, Apr. 29; Serial No. 561,177.

CLASS 105

Railroad passenger and freight transportation service. Minneapolis, St. Paul & Sault Ste. Marie Railroad Company. 558,370, Apr. 29; Serial No. 601,271, published Feb. 5, 1952.
Travel services. K. Harris. 558,366, Apr. 29; Serial No. 563,550, published Feb. 5, 1952.

CLASS 106

Scoring or imprinting a wet concrete or plaster surface with lines, etc. R. J. Struve. 558,368, Apr. 29; Serial No. 589,602, published Feb. 5, 1952.

CLASS 107

Entertainment service. E. Fadiman. 558,400, Apr. 29; Serial No. 590,359.
Musical entertainment. The Bachelors of Music. 558,369, Apr. 29; Serial No. 598,122, published Feb. 5, 1952.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Armour and Company, assignee: *See*—
Toone, Conrad.
Brown, William C., Weston, assignor to Raytheon Manufacturing Company, Newton, Mass. Cavity resonator electron discharge device. Re. 23,480, Apr. 29.
Castner, George P., Webster City, Iowa, and A. D. Lund, Minneapolis, Minn., assignors to Solar Corporation, Milwaukee, Wis. Washing machine with centrifugal extractor and stabilizer therefor. Re. 23,481, Apr. 29.
Condon, Howard M., assignor to Grand Duchess Steaks, Inc., Akron, Ohio. Meat product and treating meat. Re. 23,482, Apr. 29.
Ford Bacon & Davis, Inc., assignee: *See*—
Johnson, Ogden.
Graham & Barker, assignee: *See*—
Graham, George C.
Graham, George C., assignor, by mesne assignments, to Graham & Barker, Ridgewood, N. J. Washing machine. Re. 23,483, Apr. 29.
Grand Duchess Steaks, Inc., assignee: *See*—
Condon, Howard M.
Johnson, Ogden, Bronxville, assignor to Ford Bacon & Davis, Inc., New York, N. Y. Making culinary mixes. Re. 23,484, Apr. 29.
Kruger, Michael H., Malden, assignor to A. L. Smith Iron Company, Chelsea, Mass. Combination light distributor and wiring conduit for elongated tubular lamps. Re. 23,485, Apr. 29.
Lee, Harry E., Oswego, assignor to St. Regis Paper Company, New York, N. Y. Method of and apparatus for producing valved or sleeved bags. Re. 23,486, Apr. 29.
Lund, Arthur D.: *See*—
Castner, George P., and Lund.
McCabe, William E., Jr., Denver, Colo. Fill and discharge valve for liquefied hydrocarbon containers. Re. 23,487, Apr. 29.
Raucher, Helen, assignee: *See*—
Raucher, Walter L.
Raucher, Walter L., assignor to H. Raucher, Chicago, Ill. Convertible baby carriage and stroller. Re. 23,488, Apr. 29.
Raytheon Manufacturing Company, assignee: *See*—
Brown, William C.
St. Regis Paper Company, assignee: *See*—
Lee, Harry E.
Smith, A. L., Iron Company, assignee: *See*—
Kruger, Michael H.
Solar Corporation, assignee: *See*—
Castner, George P., and Lund.
Toone, Conrad, Pocatello, Idaho, assignor to Armour and Company, Chicago, Ill. Making cheese. Re. 23,489, Apr. 29.

LIST OF PLANT PATENTEES

Armstrong, John A., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 1,087, Apr. 29.
Armstrong, John A., assignor to Armstrong Nurseries, Inc., Ontario, Calif. Rose plant. 1,088, Apr. 29.
Armstrong Nurseries, Inc., assignee: *See*—
Armstrong, John A.
Caluya, Frederick L., Newman, Calif., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,089, Apr. 29.
Caluya, Frederick L., Newman, Calif., assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 1,090, Apr. 29.
Gardner, Edward J., Horicon, Wis. Double pink lilac plant. 1,086, Apr. 29.
Jackson & Perkins Company, assignee: *See*—
Caluya, Frederick L.

LIST OF DESIGN PATENTEES

Bausch & Lomb Optical Company, assignee: *See*—
Filsinger, Robert S.
Beaird, J. B., Company, The, assignee: *See*—
Beaird, James P.
Beaird, James P., assignor to The J. B. Beaird Company, Inc., Shreveport, La. Gas storage tank unit. 166,584, Apr. 29.
Bell, Joseph D., deceased, San Francisco, Calif.; P. B. Bell, administratrix of J. D. Bell. Lounge chair. 166,585, Apr. 29.
Bell, Pearl B., administratrix: *See*—
Bell, Joseph D.
Bliss, Charles O., Los Angeles, Calif. Sugar bowl. 166,586, Apr. 29.
Bliss, Charles O., Los Angeles, Calif. Cream pitcher. 166,587, Apr. 29.
Blumenthal, Sidney, & Co., Inc., assignee: *See*—
Todd, Jnanita G.
Boss, Sidney M.: *See*—
McLellan, Helen D., and Boss.
Brody, David, Clinton, and S. Coleman, Maynard, assignors to Van Brode Milling Co., Inc., Clinton, Mass. Combined windshield cleaner and coin receptacle. 166,588, Apr. 29.
Brozen, Edward, New York, N. Y. Alphabet for signs. 166,589, Apr. 29.
Bruce, Leo I., Framingham Center, Mass., assignor to General Electric Company. Clockcase. 166,590, Apr. 29.
Casey, John D., Medina, N. Y. Weed cutter. 166,591, Apr. 29.
Celotex Corporation, The, assignee: *See*—
Prisland, Theodore.
Chernow, Michael, New York, N. Y. Jewelry link for a necklace or similar article. 166,592, Apr. 29.
Cherry, Peter W., Milford, Conn., assignor to General Electric Company. Suction cleaner or similar article. 166,593, Apr. 29.
Cherry, Peter W., Monroe, Conn., assignor to General Electric Company. Suction cleaner or similar article. 166,594, Apr. 29.
Chiksan Company, assignee: *See*—
Warren, Doyle C.
Coleman, Sidney: *See*—
Brody, David, and Coleman.
Coro, Inc., assignee: *See*—
Kats, Adolph.
Du Pree, Ernest, Old Greenwich, Conn., assignor to Schenley Industries, Inc., New York, N. Y. Decanter bottle. 166,595, Apr. 29.
Enos, Joe, Jr., Visalia, assignor to M. A. Morrill, Laton, Calif. Support and draft apparatus for a side delivery rake. 166,596, Apr. 29.
Filsinger, Robert S., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Illuminating magnifier. 166,597, Apr. 29.
Fisher, Max, Lower Alsace Township, Berks County, and F. L. Ireland, West Reading, assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa. Stocking. 166,598, Apr. 29.
Fleisig, Charles, New York, N. Y. Portable head and back rest. 166,599, Apr. 29.
Fry, Dorothy W., Norristown, Pa. Combined plate and attaching clamp. 166,600, Apr. 29.
General Electric Company, assignee: *See*—
Bruce, Leo I.
Cherry, Peter W.
Goldfarb, Stanley, Miami, Fla. Shell doll. 166,601, Apr. 29.
Gonzales, Alexander, Mt. Rainier, Md. Badge or the like. 166,602, Apr. 29.

Hartman, Sanford H., Forest Hills, N. Y. Teapot or similar article. 166,603, Apr. 29.
Ireland, Frederick L.: *See*—
Fisher, Max, and Ireland.
Jones, Eugenie J., Webster Groves, Mo. Sheet of stationery or the like. 166,604, Apr. 29.
Karoff, Robert B., assignor to Novelty Utilities, Inc., New York, N. Y. Foldable food tray. 166,605, Apr. 29.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Brooch or the like. 166,606, Apr. 29.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Necklace or the like. 166,607, Apr. 29.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Bracelet or the like. 166,608, Apr. 29.
Katz, Adolph, Providence, R. I., assignor to Coro, Inc., New York, N. Y. Pin clip or the like. 166,609, Apr. 29.
Kerby, Alexander, Cleveland Heights, Ohio. Garment hanger. 166,610, Apr. 29.
Klein, Mae I., and D. B. Nystrom, Lancaster, Pa. Sign-post paperweight. 166,611, Apr. 29.
Lazarus, Isaac, assignor to L. Lazarus & Sons Limited, London, England. Dressing table. 166,612, Apr. 29.
Lazarus, L., & Sons Limited, assignee: *See*—
Lazarus, Isaac.
Livers, John F., Kansas City, Mo. Table lamp. 166,613, Apr. 29.
Livers, John F., Kansas City, Mo. Table lamp. 166,614, Apr. 29.
Loroco Industries Incorporated, assignee: *See*—
Tomarin, Harry A.
Loughlin, Duane S., Auburn, Calif. Portable outdoor clothes rack. 166,615, Apr. 29.
Mally, Eleanor G., Colorado Springs, Colo. Urinal holder. 166,616, Apr. 29.
McLellan, Helen D., and S. M. Boss, Chicago, Ill.; said Boss assignor to said McLellan. Toilet paper roll cover. 166,617, Apr. 29.
Millway Knitting Mill, Inc., assignee: *See*—
Senior, George W.
Mince, John B., Fort Payne, Ala. Post mitt for chairs and other furniture. 166,618, Apr. 29.
Morrill, Melvin A., assignee: *See*—
Enos, Joe, Jr.
Novelty Utilities, Inc., assignee: *See*—
Karoff, Robert B.
Nystrom, Dorothy B.: *See*—
Klein, Mae I., and Nystrom.
Ohio Match Company, The, assignee: *See*—
Sinks, Frank L.
Paul, Carl W., New York, N. Y. Combined slicing and storing device. 166,619, Apr. 29.
Pederson, Henry: *See*—
Wogomon, Donald G., and Pederson.
Penn Maid Hosiery Mills, Inc., assignee: *See*—
Fisher, Max, and Ireland.
Petrone, Joseph, Brooklyn, N. Y. Extension table. 166,620, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 166,621, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,622, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,623, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,624, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,625, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,626, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,627, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,628, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Bracelet or the like. 166,629, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Earring or the like. 166,630, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,631, Apr. 29.
Philippe, Alfred, Scarsdale, assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y. Brooch or the like. 166,632, Apr. 29.
Pond, Annie M., Douglaston, N. Y. Brooch or similar article. 166,633, Apr. 29.
Portong, Henry A., Manhasset, N. Y. Textile fabric. 166,635, Apr. 29.
Powell, Katharine L., San Diego, Calif. Doll. 166,634, Apr. 29.
Prisland, Theodore, Hillside, assignor to The Celotex Corporation, Chicago, Ill. Acoustical unit. 166,636, Apr. 29.
Robey, Floyd M., Indianapolis, Ind. Kite. 166,637, Apr. 29.
Schenley Industries, Inc., assignee: *See*—
Du Pree, Ernest.
Senior, George W., Ephrata, assignor to Millway Knitting Mill, Inc., Millway, Pa. Stocking. 166,638, Apr. 29.
Senior, George W., Ephrata, assignor to Millway Knitting Mill, Inc., Millway, Pa. Stocking. 166,639, Apr. 29.
Sinks, Frank L., assignor to The Ohio Match Company, Wadsworth, Ohio. Matchbox. 166,640, Apr. 29.
Swisscraft Embroidery Company, assignee: *See*—
Usdin, William.
Terry, Woodrow G., assignor to The Totem Pole Advertising Co., Salt Lake City, Utah. Advertising sign. 166,641, Apr. 29.
Todd, Juanita G., Yonkers, assignor to Sidney Blumenthal & Co., Inc., New York, N. Y. Pile fabric. 166,642, Apr. 29.
Tomarin, Harry A., Cincinnati, assignor to Loroco Industries Incorporated, Reading, Ohio. Combined shirt and collar protector. 166,643, Apr. 29.
Tomarin, Harry A., Cincinnati, assignor to Loroco Industries Incorporated, Reading, Ohio. Combined shirt and collar protector. 166,644, Apr. 29.
Totem Pole Advertising Co., The, assignee: *See*—
Terry, Woodrow G.
Trifari, Krussman & Fishel, Inc., assignee: *See*—
Philippe, Alfred.
Usdin, William, North Bergen, assignor to Swisscraft Embroidery Company, Union City, N. J. Vamp for a shoe or similar article. 166,645, Apr. 29.
Usdin, William, North Bergen, assignor to Swisscraft Embroidery Company, Union City, N. J. Vamp for a shoe or similar article. 166,646, Apr. 29.
Usdin, William, North Bergen, assignor to Swisscraft Embroidery Company, Union City, N. J. Vamp for a shoe or similar article. 166,647, Apr. 29.
Van Brode Milling Co., Inc., assignee: *See*—
Brody, David, and Coleman.
Wagner, Herman, New York, N. Y. Embossed textile fabric. 166,648, Apr. 29.
Wagner, Herman, New York, N. Y. Embossed textile fabric. 166,649, Apr. 29.
Warren, Doyle C., Monrovia, assignor to Chiksan Company, Brea, Calif. Elbow type fitting. 166,650, Apr. 29.
Warren, Doyle C., Monrovia, assignor to Chiksan Company, Brea, Calif. Double swivel fitting. 166,651, Apr. 29.
Warren, Doyle C., Monrovia, assignor to Chiksan Company, Brea, Calif. Swing joint. 166,652, Apr. 29.
Warren, Doyle C., Monrovia, assignor to Chiksan Company, Brea, Calif. Elbow fitting for a swing joint. 166,653, Apr. 29.
Weiss, Alexander C., Takoma Park, Md. Typewriter case or the like. 166,654, Apr. 29.
Wogomon, Donald G., and H. Pederson, Goshen, Ind. Chaise longue. 166,655, Apr. 29.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aberle, Roy F., assignor to Southworth Machine Company, Portland, Maine. Conveyer mechanism for printing presses. 2,594,704, Apr. 29.
Aberle, Roy F., assignor to Southworth Machine Company, Portland, Maine. Control for stack supply and stack delivery for printing presses. 2,594,705, Apr. 29.
Abrams, Stanley T.: *See*—
Stross, Fred H., Abrams, and Moore.
Acme Shear Company, assignee: *See*—
Lincoln, Alden A.
Wheeler, Henry C.
Action Buffs, Inc., assignee: *See*—
Seelenfreund, Louis M.
Acu-Rule Manufacturing Company, assignee: *See*—
Boos, Wilfred J.
Aerosol Corporation of America, assignee: *See*—
Dautrebande, Lucien.
Affiliated Gas Equipment, Inc., assignee: *See*—
Cartter, William G.
Agriculture, United States of America as represented by the Secretary of, assignee: *See*—
Blom, Russell H., Sohns, and Moyer.
Cordon, Theone C., and Wickerham.
Cowan, John C., and Evans.
Cowan, John C., Evans, and McKinney.
Fisher, Charles H., Zief, and Hockett.
Heisler, Edward G., and Treadway.
Schwimmer, Sigmund, and Balls.
Shaw, Ralph R.
Ahlmann, Nikolai, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Method and apparatus for grinding. 2,595,117, Apr. 29.
Aikman, Burton S., St. Petersburg, Fla., assignor to Westinghouse Air Brake Company. Automotive vehicle hoisting apparatus. 2,594,531, Apr. 29.
Air Appliances Corporation, assignee: *See*—
Bluhm, Fred A.
Air Products, Incorporated, assignee: *See*—
Steele, Arthur E.
Aktiebolaget Bofors, assignee: *See*—
Hammar, Victor, and Duhlbäck.
Norell, Karl T.
Aktieselskabet "Volund," assignee: *See*—
Brabaek, Jorgen.
Aleck, Benjamin J.: *See*—
Zauderer, Jerome, and Aleck.
Alexander, George, Coshocton, and R. T. Walsh, West Lafayette, Ohio, assignors to General Electric Company. Molded tubular body. 2,594,838, Apr. 29.
Alford, Andrew, Cambridge, Mass., assignor to United States of America as represented by the Secretary of War. Electrical apparatus. 2,594,839, Apr. 29.
Allan, Morag L., Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited. Isomerization of unsaturated hydrocarbons. 2,594,706, Apr. 29.
Allegro, Joseph A.: *See*—
Richeson, Sanford E., and Allegro.
Allen, Ernest C., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. Stator winding machine. 2,594,707, Apr. 29.
Allen-Sherman-Hoff Company, The, assignee: *See*—
Mylting, Lauritz E.
Allied Shoe Machinery Corp., assignee: *See*—
Campione, Saverio J.
Allison, Kenneth C., Crystal Lake, assignor to Grigsby-Allison Company, Inc., Arlington Heights, Ill. Riveted joint. 2,594,840, Apr. 29.
Amberg, Walter E., Beverly Shores, Ind., assignor to Lily-Tulip Cup Corporation, Chicago, Ill. Forming paper closure members for paper containers. 2,595,046, Apr. 29.
American Can Company, assignee: *See*—
Geertsen, Nelson.
Maher, William W.
Preis, Carl G., and Nordquist.
American Cyanamid Company, assignee: *See*—
Fahrenbach, Marvin J.
Fordemwalt, Frederick.
Frederiksen, Erling, and Nielsen.
Hultquist, Martin E., and Smith.
American Machine and Foundry Company, assignee: *See*—
Pohl, Ernest E.
American Totalisator Company, Inc., assignee: *See*—
Montgomery, John R.
American Viscose Corporation, assignee: *See*—
Richter, George A., Jr.
Tingley, Arthur N.
American Woolen Company, assignee: *See*—
Dunn, Harold C.
Ames, Robert G., assignor of one-fifth to G. W. Williams, one-fourth to S. Ames, Burlingame, Calif., one-tenth to L. H. W. Aull, one-tenth to K. A. Williams, and one-tenth to G. W. Williams, III. Mastic applying and corner finishing tool. 2,594,606, Apr. 29.
Ames, Stanley, assignee: *See*—
Ames, Robert G.
Ames, Walter F., Jr., assignee: *See*—
Meyers, Albert E.
Amiet, Oscar, La Chaux de Fonds, Switzerland, assignor to Mistress A. Murback. Automatic cutting machine. 2,594,708, Apr. 29.
Ampro Corporation, assignee: *See*—
Kuhlow, Herbert F.
Amstutz, Christian B., Clawson, Mich. Boring bar holder. 2,594,532, Apr. 29.
Anchor Manufacturing Company, assignee: *See*—
Foskett, Kenneth H.
Anderau, Walter: *See*—
Riat, Henri, Anderau, Wegmann, Mayer, and Menzi.
Andersen, Arthur O.: *See*—
Miner, Robert G., and Andersen.
Anderson, Axel G., assignor to K-P Manufacturing Co., Minneapolis, Minn. Oil can. 2,595,118, Apr. 29.
Anderson, Lura F., Nashville, Tenn. Compact. 2,594,607, Apr. 29.
Anderson, Vernon E., Basehor, Kans. Fluid motor. 2,595,119, Apr. 29.
André, Henri, Montmorency, France, assignor to Yardney International Corp., New York, N. Y. Silver and zinc accumulator with insoluble negative electrode and invariable electrolyte. 2,594,709, Apr. 29.
André, Henri G., Montmorency, France, assignor to Yardney International Corp., New York, N. Y. Zinc-silver accumulator. 2,594,710, Apr. 29.
André, Henri G., Montmorency, France, assignor to Yardney International Corp., New York, N. Y. Zinc-silver accumulator. 2,594,711, Apr. 29.
André, Henri G., Montmorency, France, assignor to Yardney International Corp., New York, N. Y. Silver and zinc accumulator having an insoluble negative electrode. 2,594,712, Apr. 29.
André, Henri G., Montmorency, France, assignor to Yardney International Corp., New York, N. Y. Electric accumulator. 2,594,713, Apr. 29.
André, Henri G., Montmorency, France, assignor to Yardney International Corp., New York, N. Y. Forming electric accumulators. 2,594,714, Apr. 29.
Angel, Yves, Paris, France. Apparatus for color television. 2,594,715, Apr. 29.
Armco Steel Corporation, assignee: *See*—
Hudson, Edwin B.
Armstrong Cork Company, assignee: *See*—
Powers, Henry L., and Reehling.
Arndt, John P., Jr., Euclid, assignor to The Brush Development Company, Cleveland, Ohio. Piezoelectric transducer with push-pull and feedback circuit. 2,594,841, Apr. 29.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Bottle carrier. 2,594,376, Apr. 29.
Arneson, Edwin L., Morris, assignor to Morris Paper Mills, Chicago, Ill. Bottle carrier. 2,594,377, Apr. 29.
Askania Regulator Company, assignee: *See*—
Ziebolz, Herbert, and Glass.
Aspden, Samuel H.: *See*—
McTyre, Henry, and Aspden.
Atlas Powder Company, assignee: *See*—
Buck, Frank H., Luskin, and Sanders.
Aull, Lois H. W., assignee: *See*—
Ames, Robert G.
Automatic Electric Laboratories, Inc., assignee: *See*—
Bartelink, Everhard H. B., and Daskam.
Beale, Charles E.
Burgener, Karl L.
Ross, Edmund H.
Avco Manufacturing Corporation, assignee: *See*—
Vutz, Wilhelm.
Aviation Works, National Corporation, assignee: *See*—
Šlechta, Jaroslav.
Babcock & Wilcox Company, The, assignee: *See*—
Kerr, Howard J., Fletcher, Koolstra, and Watts.
Langvand, Ivar L.
McDonald, Bertrand N.
Sprague, Theodore S., and McDonald.

Bailey Company, Inc., The, assignee: *See*—
Bailey, David C.

Bailey, David C., assignor to The Bailey Company, Inc., Amesbury, Mass. Glass run channel for vehicle windows. 2,594,717, Apr. 29.

Bailey, George B., Long Beach, assignor to The Hays Corporation, Michigan City, Ind. Electronic program controller. 2,594,716, Apr. 29.

Bailey, James, West Hartford, assignor to Plax Corporation, Hartford, Conn. Method and apparatus for producing plastic tubing. 2,594,842, Apr. 29.

Bailey, Kenneth D., Dayton, Ohio. Modulation meter. 2,594,274, Apr. 29.

Bailey Meter Company, assignee: *See*—
Hornfeck, Anthony J., and Hoffman.

Balsch, Richard K., Cottage City, Md. Armor shield for projectile type fastenings. 2,594,275, Apr. 29.

Baker & Co., Inc., assignee: *See*—
Russell, Harry J.

Baker, Craig C., Los Angeles, Calif. Locking hinge. 2,594,533, Apr. 29.

Baker, George L., Newark, Del., and M. Olliver, assignors to Chivers & Sons Limited, Histon, Cambridge, England. Tablet jellies and preparing same. 2,594,439, Apr. 29.

Baldanza, Nicholas T., Rutherford, assignor, by mesne assignments, to Columbia Protektosite Co., Inc., Carlstadt, N. J. Hollow interlocked building block and wall. 2,594,378, Apr. 29.

Balls, Arnold K.: *See*—
Schwimmer, Sigmund, and Balls.

Bangert, John T. Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor pulse divider. 2,595,208, Apr. 29.

Banides, Lucien, Ault, France. Self-acting lubricating cock. 2,594,611, Apr. 29.

Barber-Colman Company, assignee: *See*—
Hall, Donald L.

Barber Oil Corporation, assignee: *See*—
Howell, Henry C.

Barch, William E., assignor to Standard Brands Incorporated, New York, N. Y. Flavoring materials and preparing the same. 2,594,379, Apr. 29.

Barfus, Irving, Brooklyn, N. Y. Spring canopy for pipes. 2,594,843, Apr. 29.

Barker, John L., and B. J. Midlock, Norwalk, assignors to Eastern Industries, Incorporated, East Norwalk, Conn. Electronic circuit. 2,594,276, Apr. 29.

Barnes, Brown E., assignor to Hyster Company, Portland, Oreg. Lift truck. 2,595,120, Apr. 29.

Bartelink, Everhard H. B., Bronxville, and E. Daskam, Jr., Franklin Square, N. Y., assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill. Supervisory signaling circuits for carrier wave communication systems and the like. 2,594,718, Apr. 29.

Barto, Charles F., Rochester, N. Y., assignor to United Last Company, Boston, Mass. Work holder for bandsawing. 2,594,277, Apr. 29.

Barton, Loy E., and P. H. Werenfels, Princeton, N. J., assignors to Radio Corporation of America. Synchronizing apparatus for color signal sampling oscillators. 2,594,380, Apr. 29.

Basic Processes, Inc., assignee: *See*—
Irwin, Emmett M.

Bates, William A., Berkeley, assignor to California Research Corporation, San Francisco, Calif. Recovery of zinc values by selective flotation of sulfide ores. 2,594,612, Apr. 29.

Bates, William F., South Pasadena, J. N. Gregory, La Habra, and C. S. Penfield, Bakersfield, assignors to Shell Development Company, San Francisco, Calif. Drilling rig substructure. 2,594,847, Apr. 29.

Battle Creek Bread Wrapping Machine Company, assignee: *See*—
Willbrandt, Franklin M.

Bauerle, Paul J., Flushing, N. Y. Precision measuring tool. 2,594,844, Apr. 29.

Baumann, Werner, Paris, France. Two-stroke cycle internal-combustion engine. 2,594,845, Apr. 29.

Baumgartner, Luther L., Hastings, assignor to The B. F. Goodrich Company, New York, N. Y. Herbicidal compositions containing chlorinated aryl esters of aliphatic monocarboxylic acids. 2,594,278, Apr. 29.

Baxter, Don, Inc., assignee: *See*—
Gossett, Fred C.

Beale, Charles E., Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill. Voice-frequency telephone signaling system. 2,594,719, Apr. 29.

Beare, Leonard E., Lansing, Ill., assignor to Sinclair Refining Company, New York, N. Y. Mineral oil compositions. 2,594,279, Apr. 29.

Beaudet, Julian F., Lake George, N. Y. Cement bonded natural cellulose aggregate impregnated with cured synthetic resin and making the same. 2,594,280, Apr. 29.

Beber, Adolph J., Copley, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. 4-quinazoline sulfenamides. 2,594,381, Apr. 29.

Bechman Instruments, Inc., assignee: *See*—
Miller, William C.

Bechtelheimer, Ernest E., assignee: *See*—
Leavitt, Jack C.

Bechter, Hermann, Zurich, Switzerland. Stretching the cloth web in weft direction in looms. 2,594,846, Apr. 29.

Beck, August H., Jr., San Antonio, Tex. Pier hole excavator. 2,594,720, Apr. 29.

Becker, William O., Ozone Park, N. Y., assignor to Mergenthaler Linotype Company. Pot mouthpiece wiper. 2,594,613, Apr. 29.

Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Registration monitoring. 2,594,382, Apr. 29.

Bedford, Alda V., Princeton, N. J., assignor to Radio Corporation of America. Registration monitoring. 2,594,383, Apr. 29.

Beebe, Frederick E., Willoughby, Ohio. Applicator for dye and the like. 2,594,721, Apr. 29.

Beech Aircraft Corporation, assignee: *See*—
Paul, Lewis A.

Begun, Semi J., Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Magnetic reproducing device with means to prevent accidental erase of record medium. 2,594,848, Apr. 29.

Behnke, Harvey B., Appleton, Wis. Hammer pocket device. 2,594,614, Apr. 29.

Belcher, Daniel, Minneapolis, Minn., R. J. Williams, Richmond Heights, Mo., and J. E. Voege, Alton, Ill., assignors to Bemis Bro. Bag Company, St. Louis, Mo. Apparatus for manufacturing valve bags. 2,594,849, Apr. 29.

Bell Machine Company, The, assignee: *See*—
Schafer, Frank.

Bell, Sidney R., Stamford, Conn., assignor, by mesne assignments, to I. J. Moritt, Brooklyn, N. Y. Miniature lock stitch sewing machine. 2,594,534, Apr. 29.

Bell Telephone Laboratories, Incorporated, assignee: *See*—
Bangert, John T.
Bruce, Edmond.
Dunlap, Kermit S., and Lovell.
Ellwood, Walter B.
Feldman, Carl B. H.
Field, Lester M.
Hersey, Ralph E., and Vroom.
Kircher, Reymond J.
Lovell, Clarence A.
Madden, James J.
Mohr, Milton E.
Niederau, William E., Ritchie, and Wright.
Rea, Wilton T.
Retallack, John B.
Scudder, Frederick J.
Scudder, Frederick J., and Vroom.
Young, Clarence H.

Bell, William T., Jefferson County, Ala. Casket floral rack. 2,594,722, Apr. 29.

Bemis Bro. Bag Company, assignee: *See*—
Belcher, Daniel, Williams, and Voege.
Sparks, William B.

Benander, George B., Oaklawn, R. I., assignor, by mesne assignments, to General Electric Company. Plug connector. 2,594,850, Apr. 29.

Bendix Aviation Corporation, assignee: *See*—
House, Bryan E.
Livers, Carlos B., and Meddock.
MacCallum, Alan M.
Neild, William G.

Benignus, Paul G., Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo. Fungi and bacteria resistant papermakers' felts and preparing same. 2,594,384, Apr. 29.

Bennett, Bailey: *See*—
Boyd, Robert E., McFadden and Bennett.

Beranek, Leo L., Cambridge, Mass. Acoustic material which thermodynamically absorbs sound. 2,595,047, Apr. 29.

Berg, Clyde H. O., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Adsorption process and apparatus therefor. 2,594,615, Apr. 29.

Berg, Quentin, New Cumberland, Pa., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,594,281, Apr. 29.

Bergeron, Alfred, Chicopee Falls, Mass. Piston ring construction. 2,594,282, Apr. 29.

Bergman, Sven G.: *See*—
Öhlund, John A. I., and Bergman.

Berke Brothers Distilleries Inc., assignee: *See*—
Upton, Frederick P.

Berteaux, Raoul P. J., Uccle-Brussels, assignor to Solvay & Cie, Brussels, Belgium. Producing granular clusters of crystalline matter. 2,594,723, Apr. 29.

Bertele, Hans C., Purley, England. Metal vapor electric discharge apparatus. 2,594,851, Apr. 29.

Bertram, Sidney, Los Angeles, Calif., assignor to the United States of America as represented by the Secretary of the Navy. Multiple channel electronic switch. 2,594,535, Apr. 29.

Better Packages Incorporated, assignee: *See*—
Krueger, Theodore H., and Sharpe.

Beyer, Raymond H., assignor to South Bend Bait Company, South Bend, Ind. Fishing rod. 2,594,536, Apr. 29.

Bielicki, Anthony A., Wilmington, Del. Annunciator for games. 2,595,048, Apr. 29.

Bingham, Edward M.: *See*—
Plass, Raymond B., and Bingham.

Binney & Smith Company, assignee: *See*—
Mellwig, Bernhard J.

Binns, John E.: *See*—
Lancor, Joseph H., Jr., and Binns.

Biothermal Process Corporation, assignee: *See*—
Verdier, Jean G. C. J.

Birkigt, Louis, Versoix near Geneva, Switzerland. Spinning spindle mechanism, including a worm and worm wheel drive. 2,594,724, Apr. 29.

Bivens, Veles P., Lawndale, N. C. Tackle retriever. 2,594,852, Apr. 29.

Blench, Ronald O., Hillside, Southport, assignor to E. Griffiths Hughes Limited, Salford, Lancashire, England. Heating of coffee beans. 2,594,385, Apr. 29.

Blessen, Gus A., Richmond, Calif. Antiglare shade for windshields. 2,594,386, Apr. 29.

Bliss, Harvey N., Windsor, assignor to Veeder-Root Incorporated, Hartford, Conn. Interlock mechanism for liquid dispensing apparatus. 2,594,853, Apr. 29.

Bloch, Felix, Palo Alto, Calif., assignor to the United States of America as represented by the Secretary of War. Aerial cable with external radio signal reflection correction. 2,594,854, Apr. 29.

Bloch, Herman S., Chicago, and R. B. Thompson, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Resinous products from aromatic polyketones and polyamides. 2,594,537, Apr. 29.

Bloch, Monroe P., executor: *See*—
Harris, Frederic R.

Blom, Russell H., Peoria Heights, V. E. Sohns and A. J. Moyer, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Preparation of inoculum for use in the fermentative production of sodium gluconate. 2,594,283, Apr. 29.

Blondeau, Benjamin H., Seattle, Wash. Hot-water heating device and method. 2,594,616, Apr. 29.

Bloodgood, Vivian C., Cass County, Mich. Animal trap. 2,594,855, Apr. 29.

Blue, John, assignor to John Blue Company, Huntsville, Ala. Liquid fertilizer applying apparatus. 2,594,284, Apr. 29.

Blue, John, Company, assignee: *See*—
Blue, John.

Bluhm, Fred A., Michigan City, assignor, by mesne assignments, to Air Appliances Corporation, La Porte, Ind. Fluid motor. 2,594,856, Apr. 29.

Bolce, Elvin G., assignor to Reed Roller Bit Company, Houston, Tex. Laminated drill collar. 2,594,617, Apr. 29.

Boissoneau, Joanne I.: *See*—
Boissoneau, Kermit E., and J. I.

Boissoneau, Kermit E. and J. I., Davenport, Wash. Comb. 2,595,049, Apr. 29.

Bonato, James: *See*—
Wunderlich, Albert G., and Bonato.

Bonte, Frederick R., Canton, Ohio. Antifriction bearing. 2,595,121, Apr. 29.

Boos, Wilfred J., Clayton, assignor to Acu-Rule Manufacturing Company, St. Louis, Mo. Slide rule. 2,594,857, Apr. 29.

Booth, Eugene T., Jr., New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission. Thermal flowmeter. 2,594,618, Apr. 29.

Borden Company, The, assignee: *See*—
Novotny, Emil E., and Vogelsang.
Vogelsang, George K.

Borg-Warner Corporation, assignee: *See*—
Lauck, John A.

Bosch, Alexander, and G. J. Noltes, Amsterdam, Netherlands. Machine for piercing eggs and for emptying same by means of a current of air. 2,594,619, Apr. 29.

Bowman, Arthur R., Dayton, Ohio. Detachable pouring spout. 2,594,858, Apr. 29.

Bowman, Norman J., Gary, and A. W. Weitkamp, Whiting Ind., assignors to Standard Oil Company, Chicago, Ill. Separation of alcohols. 2,594,481, Apr. 29.

Boyd, Robert E., G. H. McFadden, and B. Bennett, Columbus, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich. Delaying coagulation of rubber latex. 2,594,859, Apr. 29.

Brabaek, Jorgen, assignor to Aktieselskabet "Volund," Copenhagen, Denmark. Making confectionery products. 2,594,538, Apr. 29.

Brace, George A., Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio. Filter bag coupling. 2,594,285, Apr. 29.

Braithwaite, George T., Miami, Fla. Detachable and releasable connector for fishing sinkers. 2,594,620, Apr. 29.

Breetz, Louis D., Washington, D. C. Jogged wave guide ring type radio-frequency rotary joint. 2,595,186, Apr. 29.

Breuer, William R. H., St. Albans, N. Y. Fishing device. 2,594,387, Apr. 29.

Brewer, Stuart D., Burnt Hills, N. Y., assignor to General Electric Company. Preparation of phenyltrichlorosilane. 2,594,860, Apr. 29.

Bridgeport Brass Company, assignee: *See*—
Brown, Gregory.

Brink, Norman G.: *See*—
Koniuszy, Frank R., Brink, and Folkers.

Britt, Herbert E., Los Angeles, Calif. Producing artificial snow. 2,594,725, Apr. 29.

Bronander, Wilhelm B., Montclair, N. J. Internal-combustion engine. 2,595,050, Apr. 29.

Broom and Wade Limited, assignee: *See*—
Smith, Christopher B.

Broom, William E. J.: *See*—
McCue, Cyril F., and Broom.

Broussard, Robert F., Houston, Tex., assignor to Duncan Parking Meter Corporation, Chicago, Ill. Automatic pay station. 2,594,388, Apr. 29.

Brown & Bigelow, assignee: *See*—
Felt, Paul W.

Brown, Gregory, assignor to Bridgeport Brass Company, Bridgeport, Conn. Insecticide dispenser. 2,594,539, Apr. 29.

Browning, Val A., Ogden, Utah. Take-down arrangement for firearms. 2,594,861, Apr. 29.

Browning, Val A., Ogden, Utah. Take-down arrangement for firearms. 2,594,862, Apr. 29.

Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Double-lockout interconnecting system. 2,594,389, Apr. 29.

Brumberger, Sydney, Lawrence, N. Y. Device for viewing slides. 2,594,390, Apr. 29.

Brush Development Company, The, assignee: *See*—
Arndt, John P., Jr.
Begun, Semi J.
Kornei, Otto.
Lynch, Thomas E.

Brutsch & Co., assignee: *See*—
Urscheler, Emil.

Bryant, Claude F., Shreveport, La. Tackle holder. 2,595,051, Apr. 29.

Bryant, William C., Garfield, N. J., and H. Frost, Jr., Yonkers, assignors to Swan-Finch Oil Corporation, New York, N. Y. Grease and grease base. 2,594,286, Apr. 29.

Buck, Frank H., Brandywine Hundred, M. M. Luskin, New Castle Hundred, and M. T. Sanders, Brandywine Hundred, assignors to Atlas Powder Company, Wilmington, Del. Crystallization of sorbitol. 2,594,863, Apr. 29.

Buckland, Stuart G., Sale, and G. E. Hopkins, Withington, assignors to Hopkins & Buckland Limited, Manchester, England. Gate or the like. 2,594,864, Apr. 29.

Budd Company, The, assignee: *See*—
Ledwinka, Joseph, and Trautvetter.

Budd, Larry J., Chicago, assignor to Pallet Devices, Inc., Melrose Park, Ill. Pallet container assembly for shipping articles. 2,594,287, Apr. 29.

Buehler and Company, assignee: *See*—
Edwards, Francis E., Jr.
Herst, Richard J., and Petry.

Buehler, Robert O., assignee: *See*—
Herst, Richard J., and Petry.

Bumstead, Ralph W., Westfield, N. J., assignor to The Teleregister Corporation, New York, N. Y. System for making reservations. 2,594,865, Apr. 29.

Buntin, George A., and A. D. Lohr, assignors to Hercules Powder Company, Wilmington, Del. Insecticidal compositions comprising fluorinated chlorinated cyclic terpenes. 2,594,526, Apr. 29.

Burgener, Karl L., Villa Park, assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Signal control circuit for telephone switching equipment. 2,594,726, Apr. 29.

Burggren, Ora A., Calgary, Alberta, Canada. Accessory side slope blade for bulldozers. 2,594,727, Apr. 29.

Burhans, Eugene C., Lockport, N. Y. Carton opener. 2,595,122, Apr. 29.

Burkhalter, Robert R., Toledo, Ohio. Shiftable gear mounting. 2,595,209, Apr. 29.

Burritt, Burnell O., Detroit, Mich. Governor mechanism. 2,594,866, Apr. 29.

Burroughs Wellcome & Co. (U. S. A.) Inc., assignee: *See*—
Hitchings, George H., Russell, and Falco.

Button, Clarence R., Rochester, N. Y. Fluid motor assembly. 2,594,288, Apr. 29.

Caldwell, Clyde L., Long Beach, Calif., assignor to Houdry Process Corporation, Wilmington, Del. Method and apparatus for processes employing fluent solids. 2,594,289, Apr. 29.

California Container Corporation, assignee: *See*—
Evans, Wil.

California Institute Research Foundation, assignee: *See*—
Lauritsen, Charles C.

California Research Corporation, assignee: *See*—
Bates, William A.
Condit, Daniel H.
Johnson, Arthur B., and Condit.
Shiffler, William H.

Callan, Patrick J., Manhasset, N. Y. Constructing buildings. 2,595,123, Apr. 29.

Campbell, David H., Los Angeles, Calif., assignor to North American Aviation, Inc. Frequency divider. 2,595,124, Apr. 29.

Campione, Saverio J., North Andover, assignor to Allied Shoe Machinery Corp., Haverhill, Mass. Shoe sole press. 2,594,728, Apr. 29.

Cardall, Richard R., Salt Lake City, Utah. Dispensing cabinet for rolled sheet materials. 2,594,391, Apr. 29.

Care, Samuel J., Forty-fort, and A. Shara, Kingston, Pa. Mop holder having a hollow handle and a retractable jaw. 2,594,392, Apr. 29.

Carlson, Martin, Brookfield, assignor, by mesne assignments, to G. W. Houlsby, Jr., Chicago, Ill. Adjustable door support. 2,595,187, Apr. 29.

Carmona, Juan, Miami, Fla. Rotary windshield. 2,594,867, Apr. 29.

Carr, Dodd S.: *See*—
Knapp, Burton B., and Carr.

Carson, Benjamin R., Haddonfield, N. J., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa. Phonograph. 2,595,125, Apr. 29.

Carter Carburetor Corporation, assignee: *See*—
Coffey, Irven E.

Carter, Franklyn Y., Dearborn, assignor to Detroit Lubricator Company, Detroit, Mich. Pressure limiting means for liquid charged refrigeration expansion valves. 2,594,393, Apr. 29.

Cartter, William G., Monrovia, Calif., assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio. Fuel-burning panel heater. 2,594,608, Apr. 29.

Carvalho, Leslie R. N., Little Rock, Ark. Cleaning fluid container and applicator. 2,594,729, Apr. 29.

Case, J. I., Company, assignee: *See*—
Richardson, Martin A.
Rutter, Alvah E.

Casellini, Ezio T., assignor to Sylvania Electric Products Inc., Salem, Mass. Crystal amplifier. 2,595,052, Apr. 29.

Caserta, Nicolás J., Buenos Aires, Argentina. Milk boiler with safety lid. 2,594,868, Apr. 29.

Casselman, Robert C., Auburndale, and D. R. Dominie, Lynn, assignors to Polaroid Corporation, Cambridge, Mass. Carton. 2,594,394, Apr. 29.

Cassidy, Robert J., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Generator regulator. 2,594,730, Apr. 29.

Castelli, Charles, Union City, assignor, by mesne assignments, to Columbia Protektosite Co. Inc., Carlstadt, N. J. Two-piece eyeglass frame construction. 2,594,395, Apr. 29.

Castner, George P., Webster City, Iowa, assignor to Solar Corporation, Milwaukee, Wis. Washer with scum accumulator. 2,595,053, Apr. 29.

Cauffman, John W., Elkhart, Ind. Cup mouthpiece for musical instruments. 2,594,869, Apr. 29.

Causey, Otis A., Ceres, assignor of one-third to L. East, Modesto, Calif. Well-drilling machine. 2,595,126, Apr. 29.

Ce-Brick Corporation, The, assignee: *See*—
Herck, John.

Celanese Corporation of America, assignee: *See*—
Stahl, Elmer R.
Stearn, William T.

Centre National de la Recherche Scientifique, assignee: *See*—
Nisolle, Léon.

Century Geophysical Corporation, assignee: *See*—
Handley, Ernest J.

Charbonneau, Allan P., and F. J. Russell, Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Contact mounting. 2,594,396, Apr. 29.

Chase-Shawmut Company, The, assignee: *See*—
Kozacka, Frederick J.

Chatham Electronics Corporation, assignee: *See*—
Lupo, Frank J.

Chavannes Industrial Synthetics, Inc., assignee: *See*—
Chavannes, Marc A.

Chavannes, Marc A., Lisbon, Conn., assignor to Chavannes Industrial Synthetics, Inc., New York, N. Y. Apparatus for applying designs to plastic sheetlike materials. 2,594,290, Apr. 29.

Chelsea Products, Inc., assignee: *See*—
Lohman, William J., Jr.

Chesick, Sanford C., Hartford, Conn. Accessory for use with telephones. 2,595,054, Apr. 29.

Chester-Jensen Company, assignee: *See*—
Cornell, Fritz G., Jr.

Chicago Die Casting Manufacturing Company, assignee: *See*—
Koch, Paul F.

Childress, William C., Oak Park, and A. I. Ericsson, assignors to Signode Steel Strapping Company, Chicago, Ill. Strapping machine. 2,594,397, Apr. 29.

Chivers & Sons Limited, assignee: *See*—
Baker, George L., and Olliver.

Christensen Machine Company, The, assignee: *See*—
Watson, George F.

Chu, Lan J., Brookline, and W. O. Smith, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War. Antenna. 2,594,871, Apr. 29.

Ciba Limited, assignee: *See*—
Riat, Henri, Anderau, Wagmann, Mayer, and Menzi.

Ciba Pharmaceutical Products, Inc., assignee: *See*—
Miescher, Karl, and Wieland.

Ciccone, Emidio: *See*—
Hladky, Walter, and Ciccone.

Cinch Manufacturing Corporation, assignee: *See*—
Del Camp, Sciplone M.

Clark, Elmer F., and L. F. Remington, assignors to Curtis & Marble Machine Company, Worcester, Mass. Roll-handling and control mechanism for cloth inspecting machines. 2,595,055, Apr. 29.

Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Stabilization of halogenated hydrocarbons. 2,594,872, Apr. 29.

Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Electrical capacitor containing a stabilizer. 2,594,873, Apr. 29.

Clark, Lauriston E.: *See*—
Griffith, Everette E., and Clark.

Clinefelter, James C., Akron, Ohio. Machine for feeding, working, and mixing plastic material. 2,595,210, Apr. 29.

Coffey, Irven E., assignor to Carter Carburetor Corporation, St. Louis, Mo. Forming diaphragms. 2,595,127, Apr. 29.

Cohn, Seymour B., Cambridge, Mass., and H. C. Early, Ann Arbor, Mich., assignors to the United States of America as represented by the Secretary of War. High-frequency dissipating load. 2,594,874, Apr. 29.

Colborne Manufacturing Company, assignee: *See*—
Smith, Dennis W.

Cole, Alvin D., and F. J. Kowalewski, La Crosse, Wis. Adjustable trailer for boats. 2,594,540, Apr. 29.

Colgate-Palmolive-Peet Company, assignee: *See*—
Ledgett, Lowell A.
Mahoney, John J.

Columbia Protektosite Co., Inc., assignee: *See*—
Baldanza, Nicholas T.
Castelli, Charles.

Combustion Engineering-Superheater, Inc., assignee: *See*—
Marshall, Leonard J.
Patterson, Ward S.

Commerce, United States of America, as represented by the Secretary of, assignee: *See*—
Hunter, Richard S.

Compagnie Industrielle des Piles Electriques C. I. P. E. L., assignee: *See*—
Portail, Fernand.

Condit, Daniel H.: *See*—
Johnson, Arthur B., and Condit.

Condit, Daniel H., Lafayette, assignor to California Research Corporation, San Francisco, Calif. Neutralizing and spray drying a solution of organic sulfonic acid. 2,594,875, Apr. 29.

Connolly, Gerald C., Baltimore, Md., assignor to Standard Oil Development Company. Preparation of a silica-metal oxide gel catalyst. 2,595,056, Apr. 29.

Connolly, John J., assignor to The Teleregister Corporation, New York, N. Y. Apparatus for displaying magnetically stored data. 2,594,731, Apr. 29.

Cooper, Henry J., Stockport, England. Selecting mechanism for color weft insertion. 2,594,398, Apr. 29.

Cope, Frank T., assignor to The Electric Furnace Company, Salem, Ohio. Apparatus for carburizing steel. 2,594,876, Apr. 29.

Corbitt, Robert W.: *See*—
Fletcher, Arthur H., Stark, Corbitt, and Sherlaw.

Cordon, Theone C., Erdenheim, Pa., and L. J. Wickerham, Peoria, Ill., assignor to the United States of America as represented by the Secretary of Agriculture. Production of high purity tanning extracts. 2,594,291, Apr. 29.

Cork, Bruce B., Peck, Mich., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Prefired transmit-receive box system. 2,594,732, Apr. 29.

Cornelius, Paul D., Hollydale, assignor to Byron Jackson Co., Vernon, Calif. Side wall sampler. 2,594,292, Apr. 29.

Cornell, Fritz G., Jr., Mountain Lakes, N. J., assignor, by mesne assignments, to Chester-Jensen Company, Chester, Pa. Apparatus for treating liquid dairy products. 2,594,399, Apr. 29.

Corning Glass Works, assignee: *See*—
Palmer, Wilbur C.

Cosneck, Bernard J., St. Louis, Mo. Separable fastener. 2,594,609, Apr. 29.

Cotter, William A., New York, assignor of thirty-three and one-third per cent to C. S. Epps and thirty-three and one-third per cent to I. Epps, Brooklyn, N. Y. Coupling. 2,595,057, Apr. 29.

Cowan, Ben and E., Montreal, Quebec, Canada. Flat screen for pulp screening. 2,594,400, Apr. 29.

Cowan, Elijah: *See*—
Cowan, Ben and E.

Cowan, John C., Peoria, C. D. Evans, Peoria Heights, L. L. McKinney, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Acrylonitrile protein derivatives. 2,594,293, Apr. 29.

Cowan, John C., Peoria, and C. D. Evans, Peoria Heights, Ill., assignors to the United States of America as represented by the Secretary of Agriculture. Stabilization of glyceride oils with iminodisuccinic acid. 2,594,294, Apr. 29.

Cox, Herman E., Norfolk, Va. Nutcracker. 2,594,401, Apr. 29.

Coyne, David, New York, N. Y. Annunciator for elevators and the like. 2,594,733, Apr. 29.

Crane, Denis P.: *See*—
Ford, Ronald M., and Crane.

Crawford, Elijah C., Chicago, Ill. Toolholder. 2,594,402, Apr. 29.

Creel, William H.: *See*—
Freund, Robert R., and Creel.

Crimmins, Ines C., Minneapolis, Minn. Serving utensil. 2,594,403, Apr. 29.

Cripe, Alan R., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Railway truck. 2,594,734, Apr. 29.

Cripe, Earnest C., Goshen, Ind. Identification means for stranded cables. 2,594,610, Apr. 29.

Crockett, Geoffrey A., London, England. Fountain clock. 2,594,877, Apr. 29.

Cromar Company, The, assignee: *See*—
Dittmar, Irvin F.

Crompton & Knowles Loom Works, assignee: *See*—
Snow, Warren S.

Crumley, Ernest W., Charleston, S. C. Angle head abrasive blast nozzle. 2,594,735, Apr. 29.

Culp, Lide C., El Dorado, Ark., assignor of one-half to H. J. Wilder, Tyler, Tex. Plug valve. 2,594,736, Apr. 29.

Cunningham, James M., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Control panel for accounting machines. 2,594,737, Apr. 29.

Curtis, John C., and E. G. Gartin, Claremont, N. H., assignors to Joy Manufacturing Company. Rock drill. 2,595,128, Apr. 29.

Curtis & Marble Machine Company, assignee: *See*—
Clark, Elmer F., and Remington.

Curtiss-Wright Corporation, assignee: *See*—
Steele, Frederick I.

Curtz, George C., assignor to G. E. Curtz, Pittsburgh, Pa. Clothesline support. 2,594,738, Apr. 29.

Curtz, George E., assignee: *See*—
Curtz, George C.

Cushman, Walton W., Webb City, Mo. Reversible conveyer. 2,594,295, Apr. 29.

Cutler-Hammer, Inc., assignee: *See*—
Charbonneau, Allan P., and Russell.

Dahlbäck, Gustaf: *See*—
Hammar, Victor, and Dahlbäck.

Dahlbäck, Hedvig I., administratrix: *See*—
Hammar, Victor, and Dahlbäck.

Dale Service Corp., assignee: *See*—
Woodward, Stanley W.

Daley, Charles W., Indianapolis, Ind., assignor to Radio Corporation of America. Loading stop for electron tube making machines. 2,595,058, Apr. 29.

Danly Machine Specialties, Inc., assignee: *See*—
Georgeff, Vasil.

Daskam, Edward, Jr.: *See*—
Bartelink, Everhard H. B., and Daskam.

Dautrebande, Lucien, Washington, D. C., assignor to Aerosol Corporation of America, New York, N. Y. Lobeline aerosol dilating medicament. 2,594,296, Apr. 29.

Davis, Clarence L., St. Louis, Mo. Handle connection. 2,594,878, Apr. 29.

Davis, Henry S., East Orange, N. J. Automatic speed-signaling and speed-controlling system for automobiles and other vehicles. 2,594,739, Apr. 29.

Davis, Hyman R., Jackson Heights, assignor to The Lummus Company, New York, N. Y. Purification of oils by clay contacting. 2,594,880, Apr. 29.

Davis, James N., Elmont, N. Y., assignor to Sylvania Electric Products Inc. Deferred-action battery. 2,594,879, Apr. 29.

Dayton Rubber Company, The, assignee: *See*—
Rockoff, Joseph.

Dearborn Stove Company, assignee: *See*—
Shapiro, Eli.

Debrie, Andre V. L. C., Paris, France. Support for motion-picture apparatus and the like. 2,594,404, Apr. 29.

De Forest, Lee, Los Angeles, Calif., and W. A. Rhodes, Phoenix, Ariz. Electronic light amplifier. 2,594,740, Apr. 29.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,594,541, Apr. 29.

De Groote, Melvin, University City, and B. Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del. Breaking petroleum emulsions. 2,594,542, Apr. 29.

Del Camp, Sciplone M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Tube socket. 2,595,188, Apr. 29.

Deming, Martin P., Pasadena, Calif. Combination pie pan and juice retainer ring. 2,595,059, Apr. 29.

De Quasie, Lacy G., and R. F. Eisenberg, assignors to Rochester Lead Works, Inc., Rochester, N. Y. Electrode for chromium plating. 2,594,881, Apr. 29.

De Rose, John P., Albany, Calif. Adjustable seat support. 2,594,882, Apr. 29.

Derrick, George W., Elbridge, N. Y. Blood obtaining instrument. 2,594,621, Apr. 29.

Desch, Joseph R., and R. E. Mumma, assignors to The National Cash Register Company, Dayton, Ohio. Calculating machine. 2,595,045, Apr. 29.

Deters, Elmer M., assignors to Red Jacket Manufacturing Co., Davenport, Iowa. Pressure maintaining device. 2,594,405, Apr. 29.

Detroit Lubricator Company, assignee: *See*—
Carter, Franklyn Y.

De Vries, William H.: *See*—
Meyer, Curtis E., and De Vries.

Dewan, Leon, New York, assignor of one-third to M. H. Feig, Brooklyn, and one-third to F. E. Hettling, Queens, N. Y. Rheostat potentiometer. 2,595,189, Apr. 29.

Dexter, Albert M., Jr., Farmington, assignor to Niles-Bement-Pond Company, West Hartford, Conn. Electronic control for filament wrapping machines. 2,594,741, Apr. 29.

Diamond Alkali Company, assignee: *See*—
Warburton, Dick M.

Dickey, Joseph B., assignor to Eastman Kodak Company, Rochester, N. Y. 4-nitro-2,6-di(trifluoromethyl)-benzene-azo-N-fluoroalkyl-N-hydroxyalkylaniline dye compounds. 2,594,297, Apr. 29.

Dickinson, Arthur H., Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y. Two source binary-decade counter. 2,594,742, Apr. 29.

Dietert, Harry W., and A. L. Graham, assignors to Harry W. Dietert Company, Detroit, Mich. Moisture teller. 2,594,743, Apr. 29.

Dietert, Harry W., Company, assignee: *See*—
Dietert, Harry W., and Graham.

Dilling, Marion R., Hastings-on-Hudson, assignor to International Business Machines Corporation, New York, N. Y. Optical comparing unit. 2,594,744, Apr. 29.

Di Meo, John J., Newark, N. J. Projector and target game. 2,594,745, Apr. 29.

Dittmar, Irvin F., assignor to The Cromar Company, Williamsport, Pa. Flooring strip finishing machine. 2,594,746, Apr. 29.

Dixon, Alfred L., and H. W. Gore, Western Springs, and J. W. Rice, Hinsdale, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Pressure-sensitive tape dispensing machine. 2,595,060, Apr. 29.

Dixon, Percy L.: *See*—
Hendrickson, Luther G., Dixon and Lyle.

Dominie, David R.: *See*—
Casselman, Robert C., and Dominie.

Donnen, James R., Brooklyn, N. Y. Safety holding board for use in caring for babies. 2,594,883, Apr. 29.

Dornacher, Joseph F., Osage, Wyo. Bailing tool and the like. 2,594,884, Apr. 29.

Douglas, Charles B., Charlotte, N. C. Adjustable plumber's level. 2,594,543, Apr. 29.

Douglass, Myrl R., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Electric circuit for incandescent lamps. 2,594,622, Apr. 29.

Downey, William H. J., Wilmington, Del. Toy roundabout. 2,595,061, Apr. 29.

Downs, Florence B., executrix: *See*—
Harris, Frederic R.

Draper, George C., Rosemere, Quebec, Canada. Attitude indicating unit. 2,594,406, Apr. 29.

Dryden, Horace W., Modesto, Calif. Fowl identification marker. 2,594,623, Apr. 29.

Dubinsky, Alfred J., La Crosse, Wis. Sectional window drapery. 2,594,624, Apr. 29.

Dudley, Walter E., Gleason, Wis. Reduction and refining of ferrous ores in one continuous operation. 2,594,298, Apr. 29.

Due, George V., Escalon, Calif. Irrigation signal. 2,594,885, Apr. 29.

Duguay, Alphonse, St. Clair Shores, Mich. Gripping device. 2,595,129, Apr. 29.

Du Laney, George W., Camden, N. J. Cigarette maker. 2,594,747, Apr. 29.

Duncan Parking Meter Corporation, assignee: *See*—
Broussard, Robert F.

Dungler, Julien, Basel, Switzerland. Group of nozzles for treating material. 2,594,299, Apr. 29.

Dunkelman, Benjamin, Toronto, Ontario, Canada. Walking aid for small children. 2,594,625, Apr. 29.

Dunlap, Kermit S., and C. A. Lovell, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spaced-pulse type impulse sender. 2,594,300, Apr. 29.

Dunn, Harold C., Andover, Mass., assignor to American Woolen Company, New York, N. Y. Bristle gigging brush. 2,594,886, Apr. 29.

Du Pont, E. I., de Nemours and Company, assignee: *See*—
Howard, Edward G., Jr.

Du Pont, E. I., de Nemours & Company, assignee: *See*—
Lewis, Paul F.

Dynamatic Corporation, assignee: *See*—
Jaeschke, Ralph L.

Earl, Howard D., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Control panel for accounting machines. 2,594,748, Apr. 29.

Earl Realty Company, assignee: *See*—
Tom, John E.

Earle, Clarence E., Washington, D. C. Safety valve. 2,594,626, Apr. 29.

Earls, Howard G., Syracuse, and W. B. Watson, Clay, N. Y., assignors to General Electric Company. Electromechanical trigonometric converter. 2,594,887, Apr. 29.

Early, Harold C.: *See*—
Cohn, Seymour B., and Early.
Earnest, Wiley W., Beaumont, Tex. Hubcap lock. 2,594,407, Apr. 29.
East, Leonard, assignee: *See*—
Causey, Otis A.
Eastern Industries, Incorporated, assignee: *See*—
Barker, John L., and Midlock.
Eastman, Du Bois, Scarsdale, and L. P. Gaucher, Mount Vernon, assignors to The Texas Company, New York, N. Y. Catalytic reduction of carbon monoxide with hydrogen. 2,594,301, Apr. 29.
Eastman Kodak Company, assignee: *See*—
Dickey, Joseph B.
Econotool Company, The, assignee: *See*—
Middleton, Burton E.
Edo Corporation, assignee: *See*—
Ries, Rudy F.
Edwards Company, Inc., assignee: *See*—
Verkuil, Leo L., and Russo.
Edwards, Francis E., Jr., Chicago, Ill., assignor to Buehler and Company. Clutch and brake for a servo mechanism. 2,595,190, Apr. 29.
Edwards, Leslie R., Gurdon, Ark. Trap for rats, mice, and the like. 2,595,130, Apr. 29.
Ehmann, Leslie G., assignor to Hyster Company, Portland, Oreg. Load grip means for trucks and the like. 2,595,131, Apr. 29.
Ehrat, Kurt, and V. Milliquet, Baden, assignors to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G., Glarus, Switzerland. Mechanical vibration system. 2,594,749, Apr. 29.
Ehrensperger, Hans, assignor to St. Lawrence Paper Mills Company Limited, Montreal, Quebec, Canada. Recovery of valuable constituents from waste sulfite liquor. 2,594,302, Apr. 29.
Ehrsam, J. B., & Sons Manufacturing Co., The, assignee: *See*—
Skillman, Edward.
Eisenberg, Richard F.: *See*—
De Quasie, Lacy G., and Eisenberg.
Electric Furnace Company, The, assignee: *See*—
Cope, Frank T.
Elite, Sdruzene tovarny puncoch, narodni podnik, assignee: *See*—
Zmatlik, Josef, Starý, Piller, and Pinkava.
Elliott, Frederick R., assignor to Sir W. G. Armstrong Whitworth Aircraft Limited, Coventry, England. Control of multiengine aircraft. 2,594,888, Apr. 29.
Elliott, George, Rochester, N. Y., assignor to Stromberg-Carlson Company. Telephone conversation timing means. 2,595,062, Apr. 29.
Ellwood, Walter B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Contact protection arrangement. 2,594,890, Apr. 29.
Elofson, Richard M., Ponoka, Alberta, Canada, assignor to General Aniline & Film Corporation, New York, N. Y. Synthesis of cyclooctadiene-1,5. 2,594,889, Apr. 29.
Elving, Philip J., West Lafayette, Ind., E. Shoemaker, R. L. Kabacoff, and I. Nagelburg, assignors to Publicker Industries Inc., Philadelphia, Pa. Production of activated carbon from distillers mash. 2,594,544, Apr. 29.
Embree, Harold K., Hamilton, Ontario, Canada, assignor to Griplock, Inc., Hoboken, N. J. Wire strapping tool. 2,594,891, Apr. 29.
Emens, Fred M., Sea Breeze, N. Y. Nursing bottleholder. 2,594,545, Apr. 29.
Emerson, William S., and T. M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Thiophene derivatives. 2,594,408, Apr. 29.
Endicott, Homer K., assignor to Homer K. Endicott Enterprises, Cleveland, Ohio. Jet-propelled device. 2,594,627, Apr. 29.
Endicott, Homer K., Enterprises, assignee: *See*—
Endicott, Homer K.
Engebretson, Kenneth M.: *See*—
Frantz, Herman W., and Engebretson.
Engel, William T., Union, N. J., assignor to Radio Corporation of America. Pressure gauge. 2,595,063, Apr. 29.
Engineering Laboratories, Inc., assignee: *See*—
Green, Robert P.
English Electric Company Limited, The, assignee: *See*—
Gross, William L., and Hughes.
Epps, Carl S., assignee: *See*—
Cotter, William A.
Epps, Irving, assignee: *See*—
Cotter, William A.
Erickson, Charles E., Seattle, assignor to Tradewinds, Inc., Tacoma, Wash. Artificial lure. 2,595,191, Apr. 29.
Ericson, Elmer W., Chicago, Ill. Display binder. 2,595,064, Apr. 29.
Ericsson, Arvid I.: *See*—
Childress, William C., and Ericsson.
Erie Resistor Corporation, assignee: *See*—
Heibel, Jerome D.
Erson, Erik G., Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company. Protection apparatus for fluid pressure brakes. 2,594,546, Apr. 29.
Eskin, Samuel G., and H. W. Rice, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa. Thermostatic control device. 2,594,750, Apr. 29.
Estel, George A., Jr., assignor to Globe Hoist Company, Des Moines, Iowa. Cover means for pit-mounted vehicle lifts. 2,594,892, Apr. 29.
Evans, Cyril D.: *See*—
Cowan, John C., and Evans.
Cowan, John C., Evans, and McKinney.
Evans, Will, Berkeley, assignor to California Container Corporation, Emeryville, Calif. Box construction. 2,594,628, Apr. 29.
Evasic, John, Detroit, Mich. Stud feeding machine. 2,595,065, Apr. 29.
Exner, Hellmuth A. A., Florida, Argentina. Jet-reaction motor, including gas nozzle generating steam. 2,594,629, Apr. 29.
Fahlström, Otto I., Stockholm, Sweden. Thigh limb and producing same. 2,594,751, Apr. 29.
Fahlström, Otto I., Stockholm, Sweden. Joint construction for artificial limbs. 2,594,752, Apr. 29.
Fahrenbach, Marvin J., Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Formylating tetrahydro pteroic acid and amino acid amides thereof. 2,594,271, Apr. 29.
Fairchild Recording Equipment Corporation, assignee: *See*—
Fling, Wentworth D.
Fairey Aviation Company Limited, The, assignee: *See*—
Garrard, Ernest C., and Harrold.
Falco, Elvira A.: *See*—
Hitchings, George H., Russell, and Falco.
Falge, Robert N., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Sealed beam lamp. 2,594,753, Apr. 29.
Fasce, Egi V.: *See*—
Owen, John J., and Fasce.
Faus, Harold T., Lynn, Mass., assignor to General Electric Company. Magnetic recording medium. 2,594,893, Apr. 29.
Fedders-Quigan Corporation, assignee: *See*—
Sahs, Leonard J.
Fehrenbach, Ludwig K., Hartford, assignor to Plax Corporation, West Hartford, Conn. Apparatus for pelletizing. 2,594,894, Apr. 29.
Feig, Milton H., assignee: *See*—
Dewan, Leon.
Felker, George E., Jr., Albany, N. Y., assignor to General Electric Company. High-frequency short-circuiting arrangement. 2,594,895, Apr. 29.
Feldman, Carl B. H., Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive antenna. 2,594,409, Apr. 29.
Feldman, Herman, Forest Hills, N. Y. Combined drinking glass coaster and straw guide. 2,594,896, Apr. 29.
Feldpausch, Leo P., Grand Rapids, Mich. Hunter's blind. 2,594,410, Apr. 29.
Felt, Paul W., assignor to Brown & Bigelow, St. Paul, Minn. Liquefied petroleum gas lighter. 2,594,754, Apr. 29.
Felt, Paul W., assignor to Brown & Bigelow, St. Paul, Minn. Liquefied petroleum gas lighter. 2,594,755, Apr. 29.
Ferrin, Lester T., Tonasket, Wash. Concrete block molding machine. 2,595,066, Apr. 29.
Field, Lester M., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode structure for electron discharge tubes. 2,594,897, Apr. 29.
Fincke, John K., Aver, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of alkane sulfonic acids. 2,594,411, Apr. 29.
Finley, Harold L., Woodhaven, assignor, by mesne assignments, to General Bronze Corporation, Garden City, N. Y. Igniter for oil burners. 2,594,412, Apr. 29.
Finnegan, George B., Jr., trustee, assignee: *See*—
Teale, Harold A.
Fischer, Herbert A., Langdon, N. Dak. Ball point needle for phonographs. 2,594,759, Apr. 29.
Fischer, Jason M.: *See*—
Lynch, Granville W., Jr., and Fischer.
Fischer, Karl A., Washington, D. C. Fabric material provided with paraffin coating. 2,594,547, Apr. 29.
Fischer, Karl A., Washington, D. C. Polarizing and optically staining dark field microscope. 2,594,756, Apr. 29.
Fischer, Karl A., Washington, D. C. Illuminating a microscope dark field with light in contrasting colors. 2,594,757, Apr. 29.
Fischer, Karl A., Washington, D. C. Dark field color filter with polarizing means for microscopes. 2,594,758, Apr. 29.
Fisher, Charles H., New Orleans, La., M. Zief, Philadelphia, Pa., and R. C. Hockett, Larchmont, N. Y., assignors to the United States of America as represented by the Secretary of Agriculture. Modified drying oils. 2,594,303, Apr. 29.
Fisher, Vernard P., and L. H. Poole, Tuscaloosa, Ala. Saw-tooth conditioning device. 2,594,413, Apr. 29.
Flam, August, executor: *See*—
Flam, Stephen.
Flam, John, executor: *See*—
Flam, Stephen.
Flam, Joseph, executor: *See*—
Flam, Stephen.
Flam, Stephen, deceased, Sherman Oaks, Calif.: John, Joseph, and A. Flam, executors. Molding apparatus. 2,594,760, Apr. 29.

Flannery Bolt Company, assignee: *See*—
Greenslade, Grover R.
Fletcher, Arthur H., Littleover, F. H. Stark, Chellaston, and R. W. Corbitt, Tunstall, Sittingbourne, and W. Sherlaw, Nottingham, assignors to Rolls-Royce Limited, Derby, England. Heat exchanger. 2,594,761, Apr. 29.
Fletcher, James: *See*—
Kerr, Howard J., Fletcher, Kooistra, and Watts.
Flick, Francis S., Chicago, Ill., assignor of two-thirds to M. M. Flick and one-third to N. Reedy. Automatic control for machines. 2,594,548, Apr. 29.
Flick, M. M., assignee: *See*—
Flick, Francis S.
Fling, Wentworth D., Port Washington, N. Y., assignor to Fairchild Recording Equipment Corporation. Tape-roll and reel assembly. 2,594,630, Apr. 29.
Flint, James A., Bexley, Ohio, assignor to The Jeffrey Manufacturing Company. Inertia type vibratory pick-up. 2,595,067, Apr. 29.
Flores, Iris, and J. Kellard, Hollywood, Calif. Brassière. 2,594,549, Apr. 29.
Folkers, Karl: *See*—
Koniuszy, Frank R., Brink, and Folkers.
Ford, Frank R., Limited, assignee: *See*—
Ford, Ronald M., and Crane.
Ford, Ronald M., and D. P. Crane, Sparkbrook, Birmingham, said Crane assignor to Frank R. Ford Limited, Birmingham, England. Adjustable definite position clutch operator. 2,594,898, Apr. 29.
Fordemwalt, Frederick, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y. Printing paste comprising a vat dye carried in a water-in-oil emulsion, said oil being a liquid hydrocarbon in which an alkyd resin is dissolved. 2,594,899, Apr. 29.
Forster, John O., assignor, by mesne assignments, to Heli-Coil Corporation, Long Island City, N. Y. Pregauging tool for wire thread inserts. 2,594,900, Apr. 29.
Forster, John O., assignor to Heli-Coil Corporation, Long Island City, N. Y. Axial impact type tang break-off tool. 2,594,901, Apr. 29.
Fortin, Charles A., Montreal, assignor to P. Pauliot, Cote des Neiges, Montreal, Quebec, Canada. Lighter. 2,594,631, Apr. 29.
Foskett, Kenneth H., Manchester, N. H., assignor to Anchor Manufacturing Company, Boston, Mass. Pressed metal meter box. 2,595,132, Apr. 29.
Fostoria Glass Company, assignee: *See*—
Muehlenkamp, George T.
Frantz, Herman W., and K. M. Engebretson, Marietta, Minn. Combine hitch. 2,594,632, Apr. 29.
Frazier, John W., Bemus Point, N. Y. Device for mounting and stretching pelts. 2,594,902, Apr. 29.
Frederiksen, Erling, Holte, and E. J. Nielsen, Charlottenlund, Denmark, assignors, by mesne assignments, to American Cyanamid Company, New York, N. Y. Production of penicillin salts. 2,595,068, Apr. 29.
Freedman, Harry and S., Philadelphia, Pa. Display device. 2,594,903, Apr. 29.
Freedman, Sol: *See*—
Freedman, Harry and S.
Freimann, Frank, C. Hart, and A. L. Knox, Sr., assignors to The Magnavox Company, Fort Wayne, Ind. Record changer. 2,594,633, Apr. 29.
Freund, Robert R., Mexico City, Mexico, and W. H. Creel, Bartlesville, Okla., assignors to Phillips Petroleum Company. Fluid distribution system. 2,594,762, Apr. 29.
Freyer, Ernest T., Chicago, Ill. Clam-shell bucket. 2,594,763, Apr. 29.
Fritz, Howard E., Ghent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rotary cyclic stress testing apparatus. 2,595,069, Apr. 29.
Frohring, William O., Newbury Township, Geauga County, Ohio. Tractor hitch and drive means for portable concrete mixers. 2,594,904, Apr. 29.
Frost, Harold, Jr.: *See*—
Bryant, William C., and Frost.
G. M. Engineering Co., Inc., assignee: *See*—
Gamaunt, Leon E., Sr.
Gairing, Emil: *See*—
Miller, John N., and Gairing.
Gallagher, Charles J., Schenectady, N. Y., assignor to General Electric Company. Arc welding electrode. 2,594,905, Apr. 29.
Galloway, Charles F., Los Angeles, Calif. Dispenser for light-sensitized sheets. 2,594,634, Apr. 29.
Gamaunt, Leon E., Sr., San Pedro, assignor to G. M. Engineering Co., Inc., Burbank, Calif. Portable garbage disposal unit. 2,594,635, Apr. 29.
Garby, Louis C., assignor to Goodyear Aircraft Corporation, Akron, Ohio. Control surface for airplanes. 2,595,192, Apr. 29.
Gardner, Irving, Hunter, N. Y. Paper hat. 2,594,906, Apr. 29.
Garrahan, Eugene, Harrison, N. J., assignor to Radio Corporation of America. Ink transfer device. 2,595,070, Apr. 29.
Garrard, Ernest C., Maidenhead, and K. Harrold, Taplow, assignors to The Fairey Aviation Company Limited, Hayes, England. Rotary blade safety razor. 2,594,764, Apr. 29.
Garreau, Charles F. E., Paris, France. Head for magnetic recorders. 2,594,414, Apr. 29.
Garrett Corporation, Airesearch Manufacturing Company Division, The, assignee: *See*—
Rommel, William G.
Gartin, Elmer G.: *See*—
Curtis, John C., and Gartin.
Gartner, Stanley J., Emporium, Pa., assignor to Sylvania Electric Products, Inc. Pin feeder. 2,595,071, Apr. 29.
Gassaway, James S., West Los Angeles, Calif. Coin dispenser. 2,594,907, Apr. 29.
Gaucher, Leon P.: *See*—
Eastman, Du Bois, and Gaucher.
Gaudreau, Alfred E., Springfield, Mass. Manually operable machine tool. 2,594,415, Apr. 29.
Gaulke, Fred J.: *See*—
Gaulke, Louis H. and F. J.
Gaulke, Louis H., Marshfield, Wis., and F. J. Gaulke, Oak Park, Ill. Grapple hook means. 2,594,908, Apr. 29.
Gazda, Antoine, Providence, R. I. Humidifier. 2,594,636, Apr. 29.
Geertsen, Nelson, Chicago, Ill., assignor to American Can Company, New York, N. Y. Two-piece portable carrier for bottles and the like. 2,594,304, Apr. 29.
General Aniline & Film Corporation, assignee: *See*—
Elofson, Richard M.
Gunther, Robert C.
General Aniline & Film Corporation, assignee: *See*—
Sprung, Joseph A., and Schmidt.
Sweet, Monroe H.
Towne, Richard S.
Wallace, William E.
General Bronze Corporation, assignee: *See*—
Finley, Harold L.
General Electric Company, assignee: *See*—
Alexander, George, and Walsh.
Benander, George B.
Brewer, Stuart D.
Clark, Frank M.
Earls, Howard G., and Watson.
Faus, Harold T.
Felker, George E., Jr.
Gallagher, Charles J.
Goff, Robert W.
Leete, Bernard D.
Lucas, Glennard R.
Moullin, Eric B.
Nelson, John D.
Nelson, Richard B.
Rich, Theodore A.
Ricketts, Robert E.
Rocco, William A.
Sheppard, Raymond.
Wattenberger, Vernon J.
General Motors Corporation, assignee: *See*—
Allen, Ernest C.
Boyd, Robert E., McFadden and Bennett.
Cassidy, Robert J.
Cripe, Alan R.
Falge, Robert N.
Mead, Howard C.
Schjolin, Hans. O.
General Precision Laboratory Incorporated, assignee: *See*—
Hales, Everett B.
General Tire and Rubber Company, The, assignee: *See*—
Swart, Gilbert H.
Georgeff, Vasil, assignor to Danly Machine Specialties, Inc., Chicago, Ill. Mechanical trip control for presses. 2,594,909, Apr. 29.
Gerber, Dale C., North Canton, F. A. Martin, Akron, Ohio, and E. L. Snyder, St. Petersburg, Fla., assignors to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,594,416, Apr. 29.
Gerber, Dale C., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner construction. 2,594,417, Apr. 29.
Germann, Frank A., Ripley, Ohio. Roll-up type vehicle top cover. 2,594,910, Apr. 29.
Gertzon, Thora M., New York, N. Y. Venetian blind control. 2,594,637, Apr. 29.
Geschickter, Charles F., Rock Creek Hills, and M. I. Rubin, Silver Spring, Md., assignors to Geschickter Fund for Medical Research, Inc., New York, N. Y. Salicylic acid salt of 8-(5'-isopropylaminoamylamino)-6-methoxyquinoline. 2,594,418, Apr. 29.
Geschickter, Charles F., Rock Creek Hills, and M. I. Rubin, Silver Spring, Md., assignors to Geschickter Fund for Medical Research, Inc., New York, N. Y. Di-salicylate of 7-chloro-4-(4'-diethylamino-1'-methylbutylamino)quinoline. 2,594,419, Apr. 29.
Geschickter Fund for Medical Research, Inc., assignee: *See*—
Geschickter, Charles F., and Rubin.
Gillespie, Henderson C., Moorestown, N. J., assignor to Radio Corporation of America. High-frequency dielectric heating system. 2,594,420, Apr. 29.
Gisholt Machine Company, assignee: *See*—
Phelps, Clyde H.
Gist, Fred M., Monahans, Tex. Multisection pipe protector. 2,594,550, Apr. 29.
Gist, Fred M., Monahans, Tex. Centralizer and attaching. 2,594,551, Apr. 29.
Glass, Paul: *See*—
Ziebolz, Herbert, and Glass.

Glidden Company, The, assignee: *See*—
Klinker, Louis G.
Globe Hoist Company, assignee: *See*—
Estel, George A., Jr.
Gluesenkamp, Earl W., Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Detergent composition. 2,594,421, Apr. 29.
Goddard, Esther C., executrix: *See*—
Goddard, Robert H.
Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Resonance combustion apparatus. 2,594,765, Apr. 29.
Goddard, Robert H., deceased, Annapolis, Md., by E. C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y. Apparatus for steering aircraft. 2,594,766, Apr. 29.
Goff, Robert W., Schenectady, N. Y., assignor to General Electric Company. Cam mechanism. 2,594,911, Apr. 29.
Golden, William M., Montgomery, Ala. Garment stay. 2,595,133, Apr. 29.
Goodenow, Fred I., Kansas City, Mo., and J. F. Goodenow, Jr., Johnson County, Kans. Draftsman's ink dispenser. 2,594,638, Apr. 29.
Goodenow, Julian F., Jr.: *See*—
Goodenow, Fred I., and J. F.
Goodrich, B. F., Company, The, assignee: *See*—
Baumgartner, Luther L.
Beber, Adolph J.
Fritz, Howard E.
Schmidt, Richard F.
Wolf, Robert J.
Goodyear Aircraft Corporation, assignee: *See*—
Garby, Louis C.
Hosterman, Harry L., Jr.
Gordon, Alexander M., assignor to M. L. Grant, Providence, R. I. Fare register having photoelectric fare sensing mechanism. 2,594,422, Apr. 29.
Gordon, Alexander M., assignor to M. L. Grant, Providence, R. I. Electric circuit for controlling fare registering machines. 2,594,423, Apr. 29.
Gordon, Alexander M., assignor to M. L. Grant, Providence, R. I. Coin controlled oscillator for relay operation. 2,594,424, Apr. 29.
Gordon, Carroll M., San Pablo, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Universal manipulator for grasping tools. 2,595,134, Apr. 29.
Gore, Howard W.: *See*—
Dixon, Alfred L., Gore and Rice.
Gossett, Fred C., assignor to Don Baxter, Inc., Glendale, Calif. Y rubber stopper. 2,594,639, Apr. 29.
Gottschalk, Victor H., York, Pa. Adjustable resiliency bedspring. 2,595,072, Apr. 29.
Graham, Alexander L.: *See*—
Dietert, Harry W., and Graham.
Granberg, Neil B., assignor to A. O. Smith Corporation, Milwaukee, Wis. Angular piercing tool. 2,594,552, Apr. 29.
Grant, Max L., assignee: *See*—
Gordon, Alexander M.
Graviner Manufacturing Company Limited, assignee: *See*—
Hansard, Douglas A.
Gray, John W., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Electrical driving circuit. 2,594,912, Apr. 29.
Green, Robert P., assignor to Engineering Laboratories, Inc., Tulsa, Okla. Seismic surveying. 2,594,767, Apr. 29.
Greenberg, Hymen, Chicago, Ill. Removable runway. 2,594,425, Apr. 29.
Greenleaf, Nathaniel B., and L. C. Webster, Toronto, Ontario, Canada, assignors to Sponge Products Corporation, Chicago, Ill. Sponge element and backing therefor for removable attachment to a mophead. 2,594,553, Apr. 29.
Greenslade, Grover R., Scott Township, Allegheny County, assignor to Flannery Bolt Company, Bridgeville, Pa. Shock-absorbing suspension for instruments or the like. 2,595,135, Apr. 29.
Gregory, James N.: *See*—
Bates, William F., Gregory, and Penfield.
Grenda, Joseph, Coldbrook, N. Y. Device for handling mowers. 2,594,426, Apr. 29.
Greuling, Ferdinand W., assignor of forty-nine per cent to W. N. Greuling, El Paso, Tex. Water bag carrier. 2,594,640, Apr. 29.
Greuling, William N., assignee: *See*—
Greuling, Ferdinand W.
Griffith, Everette E., and L. E. Clark, Los Angeles, assignors to Technicolor Motion Picture Corporation, Hollywood, Calif. Forming sensitive record track on cinematographic film. 2,595,136, Apr. 29.
Griffith, Frederick, Hillman, Mich. Band saw log coping sawing machine. 2,595,073, Apr. 29.
Griffith, Leonard F., Oak Park, and D. K. McIlvaine, Des Plaines, assignors to Henry Valve Company, Incorporated, Chicago, Ill. Check valve. 2,594,641, Apr. 29.
Grigsby-Allison Company, Inc., assignee: *See*—
Allison, Kenneth C.
Grim, John M., assignor to Koppers Company, Inc., Pittsburgh, Pa. Suspension polymerization employing phosphates of submicronic particle size. 2,594,913, Apr. 29.
Griplock, Inc., assignee: *See*—
Embree, Harold K.
Gross, William L., and J. O. P. Hughes, Rugby, assignors to The English Electric Company Limited, London, England. Gearing of accessories for gas turbines. 2,594,642, Apr. 29.
Grosskloss, John F., Steubenville, Ohio. Burner. 2,594,914, Apr. 29.
Grubelic, Nicholas, East Farmingdale, assignor of thirty-three and one-third per cent to I. Kushner, Great Neck, N. Y. Rotary stirrer and liquid dispensing valve. 2,594,768, Apr. 29.
Guggenheim, Daniel and Florence, Foundation, The, assignee: *See*—
Goddard, Robert H.
Guillemant, René-Edouard, Paris, France. Oscillating circuits. 2,594,915, Apr. 29.
Guillow, Gertrude H., executrix: *See*—
Guillow, Paul K.
Guillow, Paul K., deceased, Wakefield, Mass.; G. H. Guillow, Wakefield, Mass., executrix. Model airplane glider. 2,595,074, Apr. 29.
Gulf Research & Development Company, assignee: *See*—
Wyllie, Malcolm R. J.
Guinac, Howard D., Collingswood, N. J., assignor to Radio Corporation of America. Automatic gain control circuits. 2,594,916, Apr. 29.
Gunther, Robert C., Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y. Suppression of proximity development with azine color developers. 2,594,917, Apr. 29.
Gustisha, Edward F., Waukegan, Ill. Vehicle trunk lid control. 2,594,643, Apr. 29.
Haase, Carl O., Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Method and apparatus for uniformly tensioning an advancing strand. 2,594,427, Apr. 29.
Hadley, Wilfred N., assignor to Parks & Woolson Machine Co., Springfield, Vt. Selvage finishing mechanism. 2,594,918, Apr. 29.
Hadley, Wilfred N., assignor to Parks & Woolson Machine Co., Springfield, Vt. Selvage loop cutting mechanism. 2,594,919, Apr. 29.
Hagopian, Avides J., Springfield, Mass. Work holder. 2,595,137, Apr. 29.
Hales, Everett B., Mount Kisco, N. Y., assignor to General Precision Laboratory Incorporated. Linear detector. 2,594,769, Apr. 29.
Hall, Donald L., assignor to Barber-Colman Company, Rockford, Ill. Measuring system. 2,594,428, Apr. 29.
Haller, George L., Dayton, Ohio. Remote-control system with supervisory means. 2,594,305, Apr. 29.
Halpern, Bernard R., New York, assignor to Zarkin Machine Co., Inc., Long Island City, N. Y. Vacuum printing frame. 2,594,920, Apr. 29.
Hamilton, James O., Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y. Strand serving apparatus. 2,595,138, Apr. 29.
Hammar, Victor, and G. Gustaf Dahlbäck, deceased; H. I. Dahlbäck, administratrix of said G. Dahlbäck, assignors to Aktiebolaget Bofors, Bofors, Sweden. Feed and rammer arrangement at automatic firearms. 2,594,770, Apr. 29.
Handley, Ernest J., Tulsa, Okla., assignor to Century Geophysical Corporation. Pipe-lifting device. 2,594,429, Apr. 29.
Hansard, Douglas A., Rowlands Castle, assignor of one-half to Graviner Manufacturing Company Limited and one-half to The Wilkinson Sword Company Limited, London, England. Fire or temperature rise detecting appliance. 2,594,921, Apr. 29.
Hansen, Hans G. V., Copenhagen, Denmark. Safety cutoff system for gas burners responsive to air pressure and thermostatic control. 2,594,430, Apr. 29.
Hansen, Harry C., Charlottenlund, Denmark. Radio receiver tuning switch. 2,594,644, Apr. 29.
Hanson, Olaf M., Chicago, and C. B. Linn, Riverside, assignors to Universal Oil Products Company, Chicago, Ill. Concentrating hydrogen fluoride. 2,594,554, Apr. 29.
Hardy, James A., assignor to Schwitzer-Cummins Company, Indianapolis, Ind. Vibration damper. 2,594,555, Apr. 29.
Harner, Joe P., assignor to The W. F. Norman Sheet Metal Mfg. Co., Nevada, Mo. Shower bath cabinet. 2,594,645, Apr. 29.
Harris, Frederic R., deceased, New York, N. Y.; M. S. Lobenthal, M. P. Bloch, and F. B. Downs, executors of said F. R. Harris. Terminal equipment for aircraft. 2,594,773, Apr. 29.
Harris, Jay C.: *See*—
Kosmin, Milton, and Harris.
Harris, Jay C., and M. Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Detergent compositions. 2,594,431, Apr. 29.
Harris, John S., Orlando, Fla. Tool for repairing slide fasteners. 2,594,774, Apr. 29.
Harrold, Kenneth: *See*—
Garrard, Ernest C., and Harrold.

Hart, Carl: *See*—
Freimann, Frank, Hart, and Knox.
Hart, Lucille, New York, N. Y. Slip clip and combination garment. 2,595,139, Apr. 29.
Hartley, Gilbert S., Fulbourne, assignor to Pest Control Limited, Bourn, England. Purification of derivatives of phenoxyacetic acid. 2,594,556, Apr. 29.
Harvey, Merlin P.: *See*—
Ladd, Elbert C., and Harvey.
Hastings Manufacturing Company, assignee: *See*—
Phillips, Harold P.
Haug, Edward, assignor to H. P. Snyder Manufacturing Company, Inc., Little Falls, N. Y. Bicycle kick stand. 2,595,193, Apr. 29.
Hawla, Charles, St. Cloud, Minn. Sectional awning. 2,594,922, Apr. 29.
Hayden, Ernest A.: *See*—
Stone, Albert F., Hayden, and Parker.
Hays Corporation, The, assignee: *See*—
Bailey, George B.
Hayslett, Lamar E., Shelbyville, Tenn., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y. Organ reed construction. 2,594,306, Apr. 29.
Heibel, Jerome D., assignor to Erie Resistor Corporation, Erie, Pa. Variable condenser. 2,595,194, Apr. 29.
Henrich, Raymond L., Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Oxidation resistant lubricating oil composition. 2,595,140, Apr. 29.
Heisler, Edward G., and R. H. Treadway, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Potato juice. 2,594,308, Apr. 29.
Heli-Coil Corporation, assignee: *See*—
Forster, John O.
Henderson, John L., London, England. Cycle frame or the like. 2,595,075, Apr. 29.
Hendrickson, Fritz E., South Elgin, assignor of forty per cent to B. G. Olving, Elgin, Ill. Polishing machine. 2,594,646, Apr. 29.
Hendrickson, Fritz E., South Elgin, assignor of forty per cent to B. G. Olving, Elgin, Ill. Work wheel. 2,594,647, Apr. 29.
Hendrickson, Luther G., P. L. Dixon, and B. E. Lyle, Flin Flon, assignors to Hudson Bay Mining and Smelting Co., Limited, Winnipeg, Manitoba, Canada. Selective flotation of zinc. 2,595,076, Apr. 29.
Henry, Earle G., Wilmette, Ill. Tool for stretching finger rings. 2,594,432, Apr. 29.
Henry Valve Company, Incorporated, assignee: *See*—
Griffith, Leonard F., and McIlvaine.
Herbst, Philip J., Princeton, N. J., assignor to Radio Corporation of America. Radio system for aircraft identification. 2,595,141, Apr. 29.
Herck, John, Jacksonville, Fla., assignor to The Ce-Brick Corporation, New Rochelle, N. Y. Producing designs on building walls. 2,595,142, Apr. 29.
Hercules Powder Company, assignee: *See*—
Buntin, George A., and Lohr.
Riley, John E.
Rothrock, John E.
Hersey, Ralph E., Madison, N. J., and E. Vroom, Ossining, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Call data recording telephone system. 2,594,923, Apr. 29.
Hershberg, Emanuel B.: *See*—
Rubin, Martin, Hershberg, and Schwenk.
Herst, Richard J., Chicago, and S. H. Petry, Evanston, Ill., assignors to R. O. Buehler, doing business as Buehler and Company. Electromagnetic clutch and brake servo mechanism. 2,594,775, Apr. 29.
Hertel, Fredrick, Jr.: *See*—
Schaub, Erwin L., and Hertel.
Hess, Frederic O., M. B. Tark, and E. R. Schofield, assignors to Selas Corporation of America, Philadelphia, Pa. Sewage treatment. 2,594,433, Apr. 29.
Hettling, Frederick E., assignee: *See*—
Dewan, Leon.
Hiatt, Robert C., Hillsboro, Oreg. Nut picking and separating machine. 2,594,776, Apr. 29.
Hickernell, Ralph C., assignor to Kopper Kraft Industries, Inc., Meadville, Pa. Layout device. 2,594,648, Apr. 29.
Hickin, Robert J., Rittman, Ohio. Partition assembling machine. 2,594,924, Apr. 29.
Hicks, William W., assignor to Ionics, Inc., San Francisco, Calif. Ion controller. 2,594,777, Apr. 29.
Higginbotham, Robert J., Charlotte, N. C. Braking mechanism for lap winding apparatus. 2,594,925, Apr. 29.
Hirschler, Alfred E., Drexel Hill, assignor to Sun Oil Company, Philadelphia, Pa. Purification of aliphatic hydrocarbons. 2,594,557, Apr. 29.
Hitchings, George H., and P. B. Russell, Tuckahoe, and E. A. Falco, New Rochelle, assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y. Antimalarial agents and preparing them. 2,594,309, Apr. 29.
Hladky, Walter, and E. Ciccone, Newark, assignors to J. H. Scharff, Inc., East Orange, N. J. Supervised alarm system. 2,594,771, Apr. 29.
Hmelewsky, Johannes, Helsingfors, Finland. Incomplete key depression key latch mechanism. 2,594,772, Apr. 29.
Hoard, Roy C., Edinburg, Tex. Rust-preventing plug for bores of firearms. 2,594,778, Apr. 29.
Hockett, Robert C.: *See*—
Fisher, Charles H., Zlef, and Hockett.
Hodahire, James V., Oklahoma City, Okla. Dual manometer. 2,594,649, Apr. 29.
Hoffman, Howard T.: *See*—
Hornfeck, Anthony J., and Hoffman.
Hoffman, Manfred T., Newburyport, Mass. Method and machine for manufacturing hat bodies. 2,594,558, Apr. 29.
Hoffman, Roy T., Ravena, N. Y. Bed fence. 2,594,926, Apr. 29.
Hofsetz, James S., Denver, Colo. Bingo game apparatus. 2,594,434, Apr. 29.
Hogne, Henric V., Stockholm, Sweden. Chin rest for bow instruments. 2,594,435, Apr. 29.
Holt, Albert T., assignor to Lockheed Aircraft Corporation, Burbank, Calif. Propeller reversing throttle. 2,594,927, Apr. 29.
Holt, George A.: *See*—
Ricardo, Harry R., and Holt.
Hoover Company, The, assignee: *See*—
Berg, Quentin.
Brace, George A.
Gerber, Dale C.
Gerber, Dale C., Martin and Snyder.
Humphrey, Warren A.
Kroenlein, Henry A.
La Briere, Nelson W.
Vance, John E.
White, Harry B.
Hopkins & Buckland Limited, assignee: *See*—
Buckland, Stuart G., and Hopkins.
Hopkins, George E.: *See*—
Buckland, Stuart G., and Hopkins.
Hopkins, Lester M., Los Angeles, Calif. Fuel line valve lock. 2,594,559, Apr. 29.
Hornfeck, Anthony J., Lyndhurst, and H. T. Hoffman, Cleveland, Ohio, assignors to Bailey Meter Company. Control system. 2,594,436, Apr. 29.
Horowitz, Alexandre, Eindhoven, Netherlands. Wall construction for buildings. 2,594,928, Apr. 29.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaning apparatus. 2,594,437, Apr. 29.
Hosterman, Harry L., Jr., Atwater, assignor to Goodyear Aircraft Corporation, Akron, Ohio. Governor for helicopter rotor blades. 2,595,195, Apr. 29.
Hotpoint Inc., assignee: *See*—
Swisher, Thomas H.
Houdry Process Corporation, assignee: *See*—
Caldwell, Clyde L.
Houlsby, George W., Jr., assignee: *See*—
Carlson, Martin.
House, Bryan E., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,595,143, Apr. 29.
Howard, Edward G., Jr., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del. Low-temperature polymerization of ethylenic compounds using as initiators compositions comprising sodium azide and an oxidant. 2,594,560, Apr. 29.
Howe, Warren W., Longview, Wash. Sleeping bag. 2,594,438, Apr. 29.
Howell, Henry C., Rahway, N. J., assignor to Barber Oil Corporation, New York, N. Y. Refining Trinidad Lake asphalt. 2,594,929, Apr. 29.
Huber, Louis C., assignee: *See*—
Richeson, Sanford E., and Allegro.
Huck, Joseph, Tenafly, N. J., assignor to The Patent Scaffolding Co., Inc., Long Island City, N. Y. Ladder of lightweight metals. 2,594,561, Apr. 29.
Hudson Bay Mining and Smelting Co., Limited, assignee: *See*—
Hendrickson, Luther G., Dixon and Lyle.
Hudson, Edwin B., Middletown, Ohio, assignor to Armco Steel Corporation. Cargo barge. 2,594,930, Apr. 29.
Hudson, Robert B.: *See*—
Lefforge, John W., and Hudson.
Huffman, Charles A., Dayton, Ohio. Apparatus for cleaning and lubricating. 2,594,779, Apr. 29.
Hughes, E. Griffiths, Limited, assignee: *See*—
Blench, Ronald O.
Hughes, Floyd H., Union, and G. J. Murray, Belleville, assignors to Hughes-Murray, Inc., Newark, N. J. Method and machine for manufacturing ampoules. 2,595,077, Apr. 29.
Hughes, John O. P.: *See*—
Gross, William L., and Hughes.
Hughes, Mary F., Jersey City, N. J., M. A. McCalip, Yonkers, H. S. Paine, Dobbs Ferry, and N. Rosenberg, assignors to Refined Syrups & Sugars, Inc., Yonkers, N. Y. Invert sirup process. 2,594,440, Apr. 29.
Hughes-Murray, Inc., assignee: *See*—
Hughes, Floyd H., and Murray.
Hultquist, Martin E., Bound Brook, and J. M. Smith, Jr., North Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Pterins and production of the same. 2,595,196, Apr. 29.
Humphrey, Warren A., Canton, assignor to The Hoover Company, North Canton, Ohio. Bread toasting apparatus and control. 2,594,441, Apr. 29.

Hunter, Richard S., Franklin Park, Va., assignor to the United States of America as represented by the Secretary of Commerce. Signaling mirror. 2,594,310, Apr. 29.

Huppertz, George C., St. Charles, Ill. Filter construction. 2,594,650, Apr. 29.

Hydrocarbon Research, Inc., assignee: *See*—
Mayhew, Robert L.

Hyster Company, assignee: *See*—
Barnes, Brown E.
Ehmann, Leslie G.

Iams, Harley, Venice, Calif., assignor to Radio Corporation of America. Dielectric wave guide. 2,595,078, Apr. 29.

Illinois Tool Works, assignee: *See*—
Nagel, Charles E.
O'Connor, John B.

Imperial Chemical Industries Limited, assignee: *See*—
Allan, Morag L.

Ingham, Robert E.: *See*—
Sharp, Joseph G., and Ingham.

International Business Machines Corporation, assignee: *See*—
Cunningham, James M.
Dickinson, Arthur H.
Dilling, Marion R.
Earl, Howard D.

International Nickel Company, Inc., The, assignee: *See*—
Knapp, Burton B., and Carr.

Ionics, Inc., assignee: *See*—
Hicks, William W.

Irwin, Emmett M., San Marino, assignor to Basic Processes, Inc., Pasadena, Calif. Ice-cream manufacturing device and process. 2,594,442, Apr. 29.

Isaacson, Harry H., New York, N. Y. Hassock. 2,595,144, Apr. 29.

Itaya, Oliver M., assignor to The F. C. Russell Company, Cleveland, Ohio. Gauge stop for glass tables. 2,595,079, Apr. 29.

J. & J. Tool and Machine Co., assignee: *See*—
Junkunc, Béla B.

Jack & Heintz Precision Industries, Inc., assignee: *See*—
Sears, Richard E., and Karlin.

Jackson, Byron Co., assignee: *See*—
Cornelius, Paul D.

Jackson, Grover V., New Port Richey, Fla. Guide for sawing machines having reciprocating carriages. 2,594,651, Apr. 29.

Jackson, James H., Detroit, Mich. Forced draft gas burner. 2,594,562, Apr. 29.

Jackson, Louis, New York, N. Y. Production of artistic design using wicking wet with a metallic salt solution that forms a color on exposure to light. 2,595,080, Apr. 29.

Jaeschke, Ralph L., assignor to Dynamatic Corporation, Kenosha, Wis. Dynamoelectric apparatus. 2,594,931, Apr. 29.

Jeffrey Manufacturing Company, The, assignee: *See*—
Flint, James A.

Jensen, Vernon A., Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Wire cutter. 2,595,145, Apr. 29.

Jerome, Arthur L., Edgewood, Pa., assignor to Westinghouse Air Brake Company. Coded track circuit signaling system with improved feed-back code circuits. 2,594,652, Apr. 29.

Jertson, James L., Milwaukee, Wis. Cash drawer or till tray. 2,594,653, Apr. 29.

Jobe, John R., Houston, Tex. Pipe cutter. 2,594,654, Apr. 29.

Johns-Manville Corporation, assignee: *See*—
Powell, Edward R.

Johnson, Arthur B., Orinda, and D. H. Condit, Lafayette, assignors to California Research Corporation, San Francisco, Calif. Removal of carbonyl sulfide from liquefied petroleum gas. 2,594,311, Apr. 29.

Johnson, Carl G., assignor to J. P. Seeburg Corporation, Chicago, Ill. Automatic phonograph. 2,594,563, Apr. 29.

Johnson, Ora Z. D., Mutual, Okla. Quilt marker. 2,595,081, Apr. 29.

Johnston, Thomas C., Arlington, Tex. Spring jack. 2,594,443, Apr. 29.

Joy Manufacturing Company, assignee: *See*—
Curtis, John C., and Gartin.

Joyce, Harold L., Hartford City, Ind. Coupling for toy railway cars. 2,594,444, Apr. 29.

Judelson, David N., Park Ridge, N. J. Blade holder. 2,594,932, Apr. 29.

Junkunc, Alexander, Jr., assignee: *See*—
Junkunc, Béla B.

Junkunc, Alexander, Sr., assignee: *See*—
Junkunc, Béla B.
Junkunc, Béla B., assignor to B. B. Junkunc, A. Junkunc, Sr., A. Junkunc, Jr., and J. G. Junkunc, doing business as J. & J. Tool and Machine Co., Chicago, Ill. Cornice support bracket. 2,594,655, Apr. 29.

Junkunc, Béla B., assignor to B. B. Junkunc, A. Junkunc, Sr., A. Junkunc, Jr., and J. G. Junkunc, doing business as J. & J. Tool and Machine Co., Chicago, Ill. Cornice mounting bracket. 2,594,656, Apr. 29.

Junkunc, Joseph G., assignee: *See*—
Junkunc, Béla B.

K-P Manufacturing Co., assignee: *See*—
Anderson, Axel G.

Kabacoff, Bernard L.: *See*—
Elving, Philip J., Shoemaker, Kabacoff, and Nagelburg.

Kahn, Bertrand B., Cincinnati, and P. F. Metz, Hamilton, Ohio, assignors to Noma Electric Corporation, New York, N. Y. Magazine type solid fuel burning heater. 2,595,146, Apr. 29.

Karlin, Anthony F.: *See*—
Sears, Richard E., and Karlin.

Kauck, Edward A., St. Paul, Minn., and J. H. Simons, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Cyclic fluoroalkylene oxide compounds. 2,594,272, Apr. 29.

Kauffman, Walter L., II, Erie, Pa., assignor to Lovell Manufacturing Company. Automatic index device for wringers. 2,595,147, Apr. 29.

Kauffman, Walter L., II, Erie, Pa., assignor to Lovell Manufacturing Company. Drive and wringer rotation lock for wringers. 2,595,148, Apr. 29.

Kauffman, Walter L., II, assignor to Lovell Manufacturing Company, Erie, Pa. Wringer. 2,595,149, Apr. 29.

Kehrli, Hans, Zurich, Switzerland. Revolving anode Roentgen ray tube. 2,594,564, Apr. 29.

Keiser, Bernhard: *See*—
De Groote, Melvin, and Keiser.

Keith, Frederick W., Jr., Haverford, Pa., assignor to The Sharples Corporation. Centrifugal machine and process. 2,594,445, Apr. 29.

Kellard, Juliet: *See*—
Flores, Iris, and Kellard.

Kelley, Benjamin F., Tulsa, Okla. Slip lifter lock. 2,594,446, Apr. 29.

Kellogg, M. W., Company, The, assignee: *See*—
Zauderer, Jerome, and Aleck.

Kelly, Alden W.: *See*—
Stenson, Charles E., and Kelly.

Kelsey-Hayes Wheel Company, assignee: *See*—
Sharpe, Frederick P.

Kenney, Mahlon W., Oak Park, assignor to J. P. Seeburg Corporation, Chicago, Ill. Cabinet for sound reproducing equipment. 2,594,565, Apr. 29.

Kerr, Howard J., Westfield, N. J., J. Fletcher, and L. Kooistra, Akron, and G. A. Watts, Barberton, Ohio, assignors to The Babcock & Wilcox Company, Rockleigh, N. J. Fuel burning apparatus. 2,594,312, Apr. 29.

Kerr, James S., Cumberland, Md. Point adjuster for distributors. 2,594,447, Apr. 29.

Kertesz, Zoltan I., Geneva, N. Y. Simple turbidity measuring device. 2,595,082, Apr. 29.

Kesling, Elmer G., assignor of one-half to G. M. Kesling, Bloomfield, Mo. Calculator device. 2,594,566, Apr. 29.

Kesling, Gladys M., assignee: *See*—
Kesling, Elmer G.

Kidde Manufacturing Co., Inc., assignee: *See*—
Noe, Harold C.

Kieselhorst, Henry A., Richmond Heights, assignor to J. K. Kieselhorst, St. Louis, Mo. Toy dog bank. 2,594,448, Apr. 29.

Kieselhorst, June K., assignee: *See*—
Kieselhorst, Henry A.

Kilgen, Eugene R., University City, Mo. Master or central station controller. 2,595,083, Apr. 29.

Kincaid, Charles W.: *See*—
Wallace, Lawrence W., and Kincaid.

Kircher, Reymond J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transistor switching device. 2,594,449, Apr. 29.

Kirshenbaum, Abraham D.: *See*—
Rudel, Harry W., and Kirshenbaum.

Klinker, Louis G., Griffith, Ind., assignor to The Glidden Company, Cleveland, Ohio. Furnace brazing compositions. 2,594,313, Apr. 29.

Knapp, Burton B., Westfield, and D. S. Carr, Elizabeth, N. J., assignors to The International Nickel Company, Inc., New York, N. Y. Electrodepositing hard nickel plate. 2,594,933, Apr. 29.

Knox, Arthur L., Sr.: *See*—
Freimann, Frank, Hart, and Knox.

Knox, Willard D., assignee: *See*—
Ravers, Jerry J., Jr.

Koch, Paul F., Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company. Pulley and clutch mechanism. 2,594,450, Apr. 29.

Koniuszy, Frank R., Rahway, N. G. Brink, and K. Folkers, Plainfield, assignors to Merck & Co., Inc., Rahway, N. J. Preparing an antipernicious anemia concentrate. 2,594,314, Apr. 29.

Konsel, John, Massapequa, N. Y. Adjustable handle bar. 2,594,451, Apr. 29.

Kooistra, Lambert: *See*—
Kerr, Howard J., Fletcher, Kooistra, and Watts.

Koonz, John C., assignor to The Magnavox Company, Fort Wayne, Ind. Control switch and circuit for induction motors. 2,594,657, Apr. 29.

Koonz, John C., assignor to The Magnavox Company, Fort Wayne, Ind. Induction motor control switch and circuit. 2,594,658, Apr. 29.

Kopper Kraft Industries, Inc., assignee: *See*—
Hickernell, Ralph C.

Koppers Company, Inc., assignee: *See*—
Grim, John M.
Schmalenbach, Adolf.
Schulte, Elwood V.

Kornei, Otto, Cleveland Heights, assignor to The Brush Development Company, Cleveland, Ohio. Erasing head for magnetic record members. 2,594,934, Apr. 29.

Kosmin, Milton: *See*—
Harris, Jay C., and Kosmin.

Kosmin, Milton, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Methylol melamine derivatives. 2,594,452, Apr. 29.

Kosmin, Milton, and J. C. Harris, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo. Detergent compositions. 2,594,453, Apr. 29.

Kosolapoff, Gennady M., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Organic phosphorus acids and esters. 2,594,454, Apr. 29.

Kosolapoff, Gennady M., Auburn, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo. Making a dialkyl phosphoryl monoethyl hydrocarbon phosphonate. 2,594,455, Apr. 29.

Kowalewski, Frank J.: *See*—
Cole, Alvin D., and Kowalewski.

Kozacka, Frederick J., Amesbury, assignor to The Chase-Shawmut Company, Newburyport, Mass. Current-limiting fuse. 2,594,315, Apr. 29.

Kravagna, Cut: *See*—
Walden, Clarence B., and Kravagna.

Kriegel, Monroe W., Tulsa, Okla., assignor to Standard Oil Development Company. Fluid sampler for well bores. 2,595,084, Apr. 29.

Kroenlein, Henry A., Los Angeles, Calif., assignor to The Hoover Company, North Canton, Ohio. Vacuum cleaner. 2,594,456, Apr. 29.

Krueger, Theodore H., Stratford, and E. E. Sharpe, Shelton, Conn., assignors to Better Packages Incorporated. Tape dispenser and applier. 2,594,316, Apr. 29.

Kuhlow, Herbert F., Park Ridge, assignor to Ampro Corporation, Chicago, Ill. Safety device for magnetic record erasing. 2,595,197, Apr. 29.

Kunzler, Fred E., Jamaica, N. Y. Apparatus for scribing. 2,594,457, Apr. 29.

Kuriyama, Fred Y., Waianae, Oahu, Territory of Hawaii. Ornamental aquarium. 2,595,085, Apr. 29.

Kushner, Israel, assignee: *See*—
Grubelic, Nicholas.

La Briere, Nelson W., Canton, assignor to The Hoover Company, North Canton, Ohio. Filter attachment for suction cleaners. 2,594,458, Apr. 29.

Ladd, Elbert C., and M. P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y. Dihalogeno propenyl aryl ethers. 2,594,935, Apr. 29.

Lamb, Harold T., Newcastle-on-Tyne, England. Electrically driven machine for mixing and kneading or for mincing. 2,594,936, Apr. 29.

Lancor, Joseph H., Jr., East Williston, and J. E. Binns, Floral Park, N. Y., assignors to The Sperry Corporation. Corrected data tracking system. 2,594,317, Apr. 29.

Landon, Vernon D., Princeton, N. J., assignor to Radio Corporation of America. Color television. 2,594,567, Apr. 29.

Langdon, Jesse D., Long Beach, Calif. Valved coupling. 2,594,318, Apr. 29.

Langvand, Ivar L., Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y. Valve construction. 2,594,659, Apr. 29.

Larson, Raymond G., Jr., Houston, Tex. Diving board. 2,594,459, Apr. 29.

Larselere, Henry B., Flint, Mich. Surgical instrument. 2,595,086, Apr. 29.

La Societe "Pyral" S. A. R. L., assignee: *See*—
St. Hilaire, Albert B.

Lauck, John A., Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill. Power unit with thermostatic control. 2,594,460, Apr. 29.

Lauring, Edgar A., International Falls, assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn. Flame retarding composition. 2,594,937, Apr. 29.

Lauritsen, Charles C., assignor to California Institute Research Foundation, Pasadena, Calif. Roentgen meter. 2,594,660, Apr. 29.

Law, John M., South St. Paul, Minn. Automobile luggage carrier. 2,594,319, Apr. 29.

Lawlor, Joseph P., Ames, Iowa. Filter underdrain. 2,594,568, Apr. 29.

Leavitt, Jack C., Independence, assignor of 50 per cent to E. E. Bechtelheimer, Astoria, Oreg. Portable camping sink. 2,594,938, Apr. 29.

Le Clair, Camille C. S., Acton, London, assignor to Tecalemit Limited, Brentford, England. Lubrication system. 2,594,320, Apr. 9.

Le Clair, Camille C. S., London, assignor to Tecalemit Limited, Brentford, England. Valved lubrication nozzle. 2,595,211, Apr. 29.

Ledgett, Lowell A., Ridgewood, assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Continuous soapmaking. 2,594,461, Apr. 29.

Ledwinka, Joseph, Philadelphia, and G. Trautvetter, Jenkintown, Pa., assignors to The Budd Company. Vehicle body, especially for rail cars. 2,595,212, Apr. 29.

Leete, Bernard D., Peabody, Mass., assignor to General Electric Company. Hall effect converter construction. 2,594,939, Apr. 29.

Lefforge, John W., and R. B. Hudson, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo. Preparing phosphorous acid. 2,595,198, Apr. 29.

Lefforge, John W., and R. B. Hudson, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo. Phosphorous acid salts and preparing same. 2,595,199, Apr. 29.

Leftwich, Edmund H., San Diego, Calif., assignor of 50 per cent to J. W. Wilhoit, Jr., Thirty-ninth Medical Group, A. P. O. 942 c/o P. M., Seattle, Wash., and R. M. Wilhoit, San Diego, Calif. Nut holder. 2,594,321, Apr. 29.

Lehman, Edward H., assignor to W. H. Miner, Inc., Chicago, Ill. Friction shock absorber for railway car trucks. 2,594,462, Apr. 29.

Lehmann, Karl T., St. Charles, Mo. Fish impaling pin. 2,594,661, Apr. 29.

Leibing, William E., Los Angeles, Calif. Metering fuel pump. 2,594,662, Apr. 29.

Lemay Machine Company, The, assignee: *See*—
Pfeiffer, Norman J., and Suellentrop.

Lemeshka, Milton B., Lancaster, Pa., assignor to Radio Corporation of America. Cooling unit. 2,595,150, Apr. 29.

Leonard, Nelson J., Urbana, Ill., assignor to Phillips Petroleum Company. Substituted oxacycloalkanes. 2,594,322, Apr. 29.

Leslie, John H., II, Evanston, assignor to Signode Steel Strapping Company, Chicago, Ill. Load retaining door. 2,595,087, Apr. 29.

Levin, Robert H., A. V. McIntosh, Jr., and G. B. Spero, assignors to The Upjohn Company, Kalamazoo, Mich. 24-substituted delta 5-cholene-3, 24-diols. 2,594,323, Apr. 29.

Levine, Abraham, Elizabeth, N. J. Combined side catch and lock for bag frames. 2,594,940, Apr. 29.

Levitt, Benjamin A., Los Angeles, Calif., assignor to A. L. Siegel Co., Inc., New York, N. Y. Garment bag. 2,594,569, Apr. 29.

Lewis, Paul F., Tulsa, Okla., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive dump shell. 2,594,780, Apr. 29.

Licht, Anna, New York, N. Y. Brace for lady's garment. 2,595,088, Apr. 29.

Lieutard, Emile A., San Francisco, Calif. Movable highway signal. 2,594,463, Apr. 29.

Lifton, Samuel H., New York, N. Y. Combination overnight case and portfolio. 2,595,089, Apr. 29.

Lily-Tulip Cup Corporation, assignee: *See*—
Amberg, Walter E.

Lincoln, Alden A., assignor to Acme Shear Company, Bridgeport, Conn. Pivot for shears. 2,594,941, Apr. 29.

Lincoln, Wylys L., assignor to Monogram Manufacturing Company, Los Angeles, Calif. Sheet metal clamp operating tool. 2,594,942, Apr. 29.

Lindell, Martin, West Los Angeles, Calif. Speed control appaartus. 2,594,663, Apr. 29.

Linn, Carl B.: *See*—
Hanson, Olaf M., and Linn.

Linn, Carl B., Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Isomerization of alpha-beta unsaturated carboxylic acids. 2,594,570, Apr. 29.

Livers, Carlos B., North Hollywood, and A. A. Meddock, Van Nuys, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind. Hydraulic control valve with automatic hold and release. 2,594,664, Apr. 29.

Lobenthal, Michael S., executor: *See*—
Harris, Frederic R.

Lockheed Aircraft Corporation, assignee: *See*—
Holt, Albert T.

Lockwood, Jack C., Los Angeles, Calif. Mechanical cushioning device. 2,594,665, Apr. 29.

Lockwood, Thorval J., Gering, Nebr. Potato waxing machine. 2,595,151, Apr. 29.

Logan, Sandy, Chicago, Ill. Cribbage board. 2,594,943, Apr. 29.

Lohman, William J., Jr., Morristown, assignor to Chelsea Products, Inc., Irvington, N. J. Automatic ventilating shutter. 2,594,944, Apr. 29.

Lohr, Arthur D.: *See*—
Buntin, George A., and Lohr.

Long, Spencer W., Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa. Clutch assembly for drawworks. 2,594,666, Apr. 29.

Lorain Products Corporation, assignee: *See*—
Pohm, George H.

Lord Manufacturing Company, assignee: *See*—
Owen, Ralph D.

Louckes, Frank I., Memphis, Tenn. Mold for casting flexible revetment mats. 2,594,324, Apr. 29.

Loucks, Fred B., Jr., Menomonee Falls, Wis. Collapsible sawhorse leg assembly. 2,594,464, Apr. 29.

Lovell, Clarence A.: *See*—
Dunlap, Kermit S., and Lovell.

Lovell, Clarence A., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Spaced pulse impulse sender. 2,594,325, Apr. 29.

Lovell Manufacturing Company, assignee: *See*—
Kauffman, Walter L., II.

Lovfald, Peer, Lincroft, N. J. Electric heater. 2,594,465, Apr. 29.

Lucas, Fred C. and R. P., Los Angeles, Calif. Ankle joint for artificial legs. 2,594,945, Apr. 29.

Lucas, Glennard R., Pittsfield, Mass., assignor to General Electric Company. Separating diorganohalogenosilanes from mixtures of the latter and organotrihalogenosilanes. 2,594,946, Apr. 29.

Lucas, Roy P.: *See*—
Lucas, Fred C. and R. P.

Lummus Company, The, assignee: *See*—
Davis, Hyman R.

Lundberg, Gustave E., Chicago, Ill., assignor to The Seng Company. Drawer fixture. 2,594,571, Apr. 29.

Lupo, Frank J., Hackensack, assignor to Chatham Electronics Corporation, Newark, N. J. Voltage regulator. 2,594,572, Apr. 29.

Luskin, Michael M.: *See*—
Buck, Frank H., Luskin, and Sanders.

Luther, Otto H., New York, N. Y. Intermittent film feeding mechanism utilizing scroll gears. 2,594,466, Apr. 29.

Lutz, Friedrich, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Wurttemberg, Germany. Seam for joining the meeting or overlapping edge portions of fabric sections. 2,595,152. Apr. 29.

Lyle, Burton E.: *See*—
Hendrickson, Luther G., Dixon, and Lyle.

Lynch, Granville W., Jr., and J. M. Fischer, Charleston, S. C. Salt shaker. 2,594,467, Apr. 29.

Lynch, Thomas E., assignor to The Brush Development Company, Cleveland, Ohio. Magnetic testing apparatus. 2,594,947, Apr. 29.

Lynch, Thomas E., assignor to The Brush Development Company, Cleveland, Ohio. Electromechanical transducer unit. 2,594,948, Apr. 29.

Lytle, Chester W., and F. Nienaber, Chicago, Ill., assignors, by mesne assignments, to Lytle Engineering & Mfg. Co. Tuner for radio and television receivers and the like. 2,594,667, Apr. 29.

Lytle Engineering & Mfg. Co., assignee: *See*—
Lytle, Chester W., and Nienaber.

MacCallum, Alan M., Maywood, assignor to Bendix Aviation Corporation, Teterboro, N. J. Trim tab servomotor control. 2,594,326, Apr. 29.

Mackenzie, Dorothy E., and G. H. Wolfe, Reno, Nev. Making combustible gas for use in internal-combustion engines. 2,594,468, Apr. 29.

Madden, James J., Woodhaven, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Preset type impulse-sender. 2,594,949, Apr. 29.

Madder, Harold B., assignor to O. W. Sanders, Houston, Tex. Hoist swivel. 2,594,950, Apr. 29.

Magnavox Company, The, assignee: *See*—
Freimann, Frank, Hart, and Knox.
Koonz, John C.

Magnussen, Odd M., Oslo, Norway. Article adapted for use as transport sled, as slip coutainer to be dropped from aircraft, and as stove respectively. 2,594,781, Apr. 29.

Maher, William W., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Leaky can reject mechanism for can testing machines. 2,594,327, Apr. 29.

Mahoney, John J., New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J. Spraying freely falling particles. 2,594,469, Apr. 29.

Makant, Joseph E., and G. W. Smithson, Pawtucket, and K. R. Wunschel, Johnston, R. I., assignors, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn. Control for machine tools. 2,594,782, Apr. 29.

Mallory, P. R., & Co., Inc., assignee: *See*—
Puerner, George O.

Malmgren, George V., Chicago, Ill. Forecasting calculator. 2,595,153, Apr. 29.

Mancini, George, New York, N. Y. Gas alarm device. 2,594,951, Apr. 29.

Mándi, Andrew, and F. Ratkovszky, Budapest, Hungary. Two-pole turbogenerator rotor. 2,594,952, Apr. 29.

Mannal, Clifford, Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission. Flowmeter. 2,594,668, Apr. 29.

Mantel, Edward, Harvel, Ill. Truss. 2,595,154, Apr. 29.

Marchetti, John W., Oceanport, N. J., assignor to the United States of America as represented by the Secretary of War. Antenna switching system. 2,594,328, Apr. 29.

Mares, Vojtěch, Prague, Czechoslovakia. Method and apparatus for continuous refining and simultaneous deodorizing raw fats snd oils by distilling free aliphatic acids therefrom. 2,594,953, Apr. 29.

Marié, Robert P., Neuilly, assignor to Societe francaise Sadir-Carpentier, Paris, France. High-frequency amplifying system. 2,594,954, Apr. 29.

Mariner, Norman E., Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J. Machine for applying ribbed strips to orthopedic insoles. 2,594,470, Apr. 29.

Markowitz, Albert A., Bronx, N. Y. Magnetic holder for pencils. 2,594,955, Apr. 29.

Marlin, Howard K., Milroy, Ind. Corn rake attachment. 2,594,573, Apr. 29.

Marsden, George B., Chicago, Ill. Protractor. 2,594,574, Apr. 29.

Marshall, Calvert D., Georgetown, Ky. Gear-operated wrench construction. 2,594,669, Apr. 29.

Marshall, Donald E., Summit, N. J., assignor to Micro Processing Equipment, Inc., Des Plaines, Ill. Compacting pulverized materials and product resulting therefrom. 2,594,956, Apr. 29.

Marshall, Leonard J., Tenafly, N. J., assignor to Combustion Engineering-Superheater, Inc. Heat exchange apparatus. 2,594,471, Apr. 29.

Martens, William G., Jr., Chatham, assignor to Pulverizing Machinery Company, Summit, N. J. Multiple unit self-cleaning dust filter. 2,594,957, Apr. 29.

Martin, Frank A.: *See*—
Gerber, Dale C., Martin, and Snyder.

Masciana, Andrea P., Washington, D. C. Garment hanger. 2,594,958, Apr. 29.

Master Vibrator Company, assignee: *See*—
McCrery, Harold E.

Masters, Aaron, Perth Amboy, N. J. Hair remover with central feed of skin lotion. 2,594,959, Apr. 29.

Mastrangelo, Arthur, Queens Village, N. Y. Light socket adapter for photographic flashlight bulb. 2,595,155, Apr. 29.

Matasovic, John L., Chicago, Ill. Pressure regulator gauge guard. 2,595,156, Apr. 29.

Mawney, Robert G., assignor to Metals & Controls Corporation, Attleboro, Mass. Control relay. 2,594,670, Apr. 29.

May, Harry C., East McKeesport, and R. R. Stevens, Forest Hills, Pa., assignors to Westinghouse Air Brake Company. Control mechanism. 2,594,575, Apr. 29.

May, Harry C., East McKeesport, and R. R. Stevens, Forest Hills, Pa., assignors to Westinghouse Air Brake Company. Fluid pressure control apparatus. 2,594,576, Apr. 29.

May, Harold F., Valley Stream, assignor to The Teleregister Corporation, New York, N. Y. Electrical storage and signaling system. 2,594,960, Apr. 29.

Mayer, Hans: *See*—
Riat, Henri, Anderau, Wegmann, Mayer, and Menzi.

Mayer, Jack, New York, N. Y. Clock mechanism and parts for the assembly thereof. 2,595,157, Apr. 29.

Mayhew, Robert L., Great Neck, assignor to Hydrocarbon Research, Inc., New York, N. Y. Gas generator. 2,594,329, Apr. 29.

Mayhew, Robert L., Great Neck, assignor to Hydrocarbon Research, Inc., New York, N. Y. Gas generator. 2,594,330, Apr. 29.

Maylen, Jack H., Bartlesville, Okla. Hedge and shrubbery trimmer. 2,594,961, Apr. 29.

Maytag Company, The, assignee: *See*—
Smith, Thomas R.

McCalip, Medford A.: *See*—
Hughes, Mary F., McCalip, Paine, and Rosenberg.

McCann, John J., Lowell, Mass. Pot spinning apparatus. 2,594,783, Apr. 29.

McClain, Benjamin M., Seattle, Wash. Fishhook leader carrier. 2,594,472, Apr. 29.

McCoy, Ernest E., Grand Lake, Colo. Drip-catching spoon rack. 2,594,473, Apr. 29.

McCrery, Harold E., assignor, by mesne assignments, to Master Vibrator Company, Dayton, Ohio. Troweling machine. 2,594,331, Apr. 29.

McCue, Cyril F., Kingston, and W. E. J. Broom, Westminster, London, England, assignors to Standard Oil Development Company. Rust preventing composition and preparing same. 2,595,158, Apr. 29.

McDonald, Bertrand N.: *See*—
Sprague, Theodore S., and McDonald.

McDonald, Bertrand N., Aurora, Ill., assignor to The Babcock & Wilcox Company, New York, N. Y. Aspirating two-way control valve. 2,594,962, Apr. 29.

McFadden, George H.: *See*—
Boyd, Robert E., McFadden, and Bennett.

McFarland, Arthur E., assignor to McFarland Manufacturing Corporation, Houston, Tex. Pump and motor therefor. 2,594,577, Apr. 29.

McFarland Manufacturing Corporation, assignee: *See*—
McFarland, Arthur E.

McGrath, Lewis J., Newtonville, Mass. Refrigerated display tank. 2,594,474, Apr. 29.

McIlvaine, Douglas K.: *See*—
Griffith, Leonard F., and McIlvaine.

McIntosh, A. Vern, Jr.: *See*—
Levin, Robert H., McIntosh, and Spero.

McKee, Chester W. and R. W., Chicago, Ill., assignors, by mesne assignments, to Teledetector, Inc. Multiple coil pickup. 2,594,332, Apr. 29.

McKee, Richard W.: *See*—
McKee, Chester W. and R. W.

McKendry, John K., Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War. Radio pulse transmitter with rotating antenna. 2,594,965, Apr. 29.

McKinney, James R., Cleveland, Ohio. Clothes hanger. 2,594,966, Apr. 29.

McKinney, Leonard L.: *See*—
Cowan, John C., Evans, and McKinney.

McNicoll, David, Solihull, Birmingham, England, assignor to The Timken Roller Bearing Company, Canton, Ohio. Tapered roller bearing. 2,594,578, Apr. 29.

McTyre, Henry, and S. H. Aspden, Natchitoches, La. Internal reverse taper reamer. 2,594,671, Apr. 29.

Mead, Howard C., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Spotlight attachment for mirrors. 2,594,784, Apr. 29.

Meddock, Alvin A.: *See*—
Livers, Carlos B., and Meddock.

Medicus, Gustav K., Dayton, Ohio. Gas arc torch. 2,594,333, Apr. 29.

Meeker, Herbert J., Orange, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Comminutor. 2,594,785, Apr. 29.

Mega Corporation, assignee: *See*—
Seaman, Richard H.

Meincke, Edward, Summit, N. J., assignor, by mesne assingments, to Union Carbide and Carbon Corporation. Powder valve. 2,594,786, Apr. 29.

Meilwig, Bernhard J., assignor to Binney & Smith Company, Easton, Pa., and New York, N. Y. Pasty vehicle for artist's paint. 2,594,273, Apr. 29.

Menough, Paul S., Rocky River, Ohio. Annealing tray. 2,594,963, Apr. 29.

Menzi, Karl: *See*—
Riat, Henri, Anderau, Wegmann, Mayer, and Menzi.

Merck & Co., Inc., assignee: *See*—
Koniuszy, Frank R., Brink, and Folkers.

Mergenthaler Linotype Company, assignee: *See*—
Becker, William O.

Merla Tool Corporation, assignee: *See*—
Walton, Robert O.

Metals & Controls Corporation, assignee: *See*—
Mawney, Robert G.

Metz, Paul F.: *See*—
Kahn, Bertrand B., and Metz.

Meyer, Curtis E., and W. H. De Vries, assignors to The Upjohn Company, Kalamazoo, Mich. Preparation of vitamin B_{12} concentrates from streptomyces griseus cultures. 2,595,159, Apr. 29.

Meyer, Maximilian C., Brooklyn, N. Y. Pin and clasp for jewelry. 2,594,475, Apr. 29.

Meyers, Albert E., Bridgeport, Conn., assignor of one-half to W. F. Ames, South Weymouth, Mass. Slidable bar ratchet wrench. 2,594,964, Apr. 29.

Micro Processing Equipment, Inc., assignee: *See*—
Marshall, Donald E.

Middleton, Burton E., Hatfield, assignor to The Econotool Company, Jenkintown, Pa. Cutting tool. 2,595,090, Apr. 29.

Midlock, Bernard J.: *See*—
Barker, John L., and Midlock.

Miescher, Karl, Riehen, and P. Wieland, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J. β-naphthyl-(2)-β-alkyl-2,α-dialkylpropionic acids and esters thereof. 2,595,200, Apr. 29.

Miessner, Benjamin F., assignor to Miessner Inventions, Inc., Harding Township, Morris, County, N. J. Apparatus for production of music. 2,594,967, Apr. 29.

Miessner Inventions, Inc., assignee: *See*—
Miessner, Benjamin F.

Miller, Helen P., assignee: *See*—
Miller, Julian D.

Miller, Henry J., Baltimore, Md. Garden and insecticide sprayer. 2,594,476, Apr. 29.

Miller, John N., and E. Gairing, Detroit, Mich. Offset locking adjustment collar. 2,594,969, Apr. 29.

Miller, John W., assignor to Motor Wheel Corporation, Lansing, Mich. Valve. 2,595,160, Apr. 29.

Miller, Julian D., assignor to himself and H. P. Miller, Denton, Md. Chicken drinking fountain. 2,594,968, Apr. 29.

Miller, William C., Pasadena, Calif., assignor to Bechman Instruments, Inc. Fery-prism monochromator. 2,594,334, Apr. 29.

Milligan, William B.: *See*—
Penther, Carl J., and Milligan.

Milliquet, Vladimir: *See*—
Ehrat, Kurt, and Milliquet.

Miner, Robert G., and A. O. Andersen, assignors to The Trane Company, La Crosse, Wis. Air-conditioning apparatus. 2,594,477, Apr. 29.

Miner, W. H., Inc., assignee: *See*—
Lehman, Edward H.

Minneapolis-Honeywell Regulator Company, assignee: *See*—
Wild, Rudolf F.

Minnesota and Ontario Paper Company, assignee: *See*—
Lauring, Edgar A.

Minnesota Mining & Manufacturing Company, assignee: *See*—
Kauck, Edward A., and Simons.

Moeller, William C., assignor, by mesne assignments, to Parmelee Plastics Company, Kansas City, Mo. Hinged structure. 2,594,335, Apr. 29.

Mohr, Milton E., Pacific Palisades, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical counter circuit. 2,594,336, Apr. 29.

Monk, George S., Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission. Viewing device for radioactive materials. 2,594,970, Apr. 29.

Monogram Manufacturing Company, assignee: *See*—
Lincoln, Wylys L.

Monsanto Chemical Company, assignee: *See*—
Benignus, Paul G.
Emerson, William S., and Patrick.
Fincke, John K.
Gluesenkamp, Earl W.
Harris, Jay C., and Kosmin.
Kosmin, Milton.
Kosmin, Militon, and Harris.
Kosolapoff, Gennady M.
Lefforge, John W., and Hudson.
Mowry, David T.
Patrick, Tracy M., Jr.

Montel, Joseph I.: *See*—
Thurber, Walter P., and Montel.

Montgomery, John R., Chicago, Ill., assignor to American Totalisator Company, Inc., Baltimore, Md. Ticket printing and issuing machine. 2,594,787, Apr. 29.

Montgomery Ward & Co., Incorporated, assignee: *See*—
Muerle, Richard W.

Moore, Robert J.: *See*—
Stross, Fred H., Abrams, and Moore.

Moore, Sam F., Utica, N. Y. Boxing head guard. 2,594,478, Apr. 29.

Moore, William E., Oakland, Calif. Packaged refrigerant. 2,594,672, Apr. 29.

Moores, Zach H., Texarkana, Tex. Frame for rotary ground pulverizers. 2,595,091, Apr. 29.

Morain, Paul, assignor to Societe Nationale de Constructions Aeronautiques du Sud-Ouest (Societe Anonyme), Paris, France. Fuel feeding of engines arranged at the ends of the blades of a rotary wing. 2,594,788, Apr. 29.

Morgan Construction Company, assignee: *See*—
Sheperdson, John W.

Morin, Louis H., Bronx, N. Y. Scoop removal pliers. 2,594,789, Apr. 29.

Moritt, Irving J., assignee: *See*—
Bell, Sidney R.

Morley, Charles G., Ashbourne, assignor to Rolls-Royce Limited, Derby, England. Fuel system for internal-combustion engines. 2,594,790, Apr. 29.

Morris Paper Mills, assignee: *See*—
Arneson, Edwin L.

Morton Manufacturing Company, assignee: *See*—
Motter, Charles S.

Morway, Arnold J., Clark Township, Union County, and D. W. Young, Roselle, N. J., assignors to Standard Oil Development Company. Lubricating composition. 2,595,161, Apr. 29.

Moschetto, Louis, Ridgewood, N. Y. Iced food container prop. 2,594,479, Apr. 29.

Motl, Albert C., Alpha, Minn. Trough lifter. 2,594,791, Apr. 29.

Motor Wheel Corporation, assignee: *See*—
Miller, John W.

Motter, Charles S., assignor to Morton Manufacturing Company, Chicago, Ill. Wall cabinet with lighting fixture to illuminate the interior thereof and direct light downwardly therefrom. 2,594,792, Apr. 29.

Moullin, Eric B., Sale, England, assignor, by mesne assignments, to General Electric Company. Barrier nonreflectant to incident electromagnetic waves. 2,594,971, Apr. 29.

Mounce, Whitman D., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Method and apparatus for underwater gravity surveying. 2,595,092, Apr. 29.

Mouw, Garrett H., Royal Oak, Mich. Tool grinding fixture. 2,595,093, Apr. 29.

Mowry, David T., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Bis (p-chlorophenylmercapto) methane and insecticidal compositions thereof. 2,594,480, Apr. 29.

Moyer, Andrew J.: *See*—
Blom, Russell H., Sohns, and Moyer.

Muehlenkamp, George T., Columbus, Ohio, assignor, by mesne assignments, to Fostoria Glass Company, Moundsville, W. Va. Electric furnace. 2,594,972, Apr. 29.

Muehlenkamp, George T., Columbus, Ohio, assignor, by mesne assignments, to Fostoria Glass Company, Moundsville, W. Va. Electric furnace and lead electrode. 2,594,973, Apr. 29.

Muerle, Richard W., Springfield, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Air intake device for water pumps. 2,594,793, Apr. 29.

Mull, Raymond A., St. Joseph Township, Berrien County, Mich. Parallel screw machinist's clamp. 2,594,794, Apr. 29.

Mumma, Robert E.: *See*—
Desch, Joseph R., and Mumma.

Murback, Mistress A., assignee: *See*—
Amiet, Oscar.

Murray, Gregory J.: *See*—
Hughes, Floyd H., and Murray.

Mylting, Lauritz E., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Self-clearing star feeder. 2,594,974, Apr. 29.

Mylting, Lauritz E., Merchantville, N. J., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Mixing apparatus. 2,594,975, Apr. 29.

Mylting, Lauritz E., Merchantville, N. J., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa. Seal for ash hoppers. 2,594,976, Apr. 29.

Naden, Dora L., Tampa, Fla. Toe covering and making same. 2,594,482, Apr. 29.

Nagel, Charles E., New York, N. Y., assignor to Illinois Tool Works, Chicago, Ill. Self-locking nut. 2,595,201, Apr. 29.

Nagelburg, Irving: *See*—
Elving, Philip J., Shoemaker, Kabacoff, and Nagelburg.

Naken, Morris I., Chicago, Ill. Receptacle for tableware and the like. 2,594,483, Apr. 29.

National Cash Register Company, The, assignee: *See*—
Desch, Joseph R., and Mumma.

National Foam System, Inc., assignee: *See*—
Perri, Joseph M.

National Supply Company, The, assignee: *See*—
Long, Spencer W.

Navy, United States of America as represented by the Secretary of the, assignee: *See*—
Bertram, Sidney.
Cork, Bruce B.
Van Voorhis, Stanley N.

Neff, Loren L., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Lubricating composition. 2,594,795, Apr. 29.

Nelld, William G., Fairlawn, assignor to Bendix Aviation Corporation, Teterboro, N. J. Regulator. 2,594,977, Apr. 29.

Nelson, John D., Pittsfield, Mass., assignor to General Electric Company. Resinous compositions and their use. 2,594,979, Apr. 29.

Nelson, Richard B., Schenectady, N. Y., assignor to General Electric Company. Waveguide attenuator. 2,594,978, Apr. 29.

Nessler, Reinhardt, Stockton, Calif. Electric can opener. 2,595,162, Apr. 29.

Neuwirth, Herman, Brooklyn, N. Y. Transferring a film web from a roll to a reel of film developing means. 2,594,980, Apr. 29.

Nichols, John T., assignee: *See*—
Nichols, Mary L.

Nichols, Mary L., assignor to J. T. Nichols, Santa Ana, Calif. Fishing lure. 2,594,673, Apr. 29.

Niederau, William E., Arlington, D. Ritchie, Jr., North Plainfield, and P. L. Wright, Newark, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic voltmeter test circuit for measuring high-resistance leaks. 2,595,163, Apr. 29.

Nielsen, Erling J.: *See*—
Frederiksen, Erling, and Nielsen.

Nienaber, Frank: *See*—
Lytle, Chester W., and Nienaber.

Nietfeld, Albert B., Fort Laramie, Wyo. Motor mounting. 2,594,674, Apr. 29.

Niles-Bement-Pond Company, assignee: *See*—
Dexter, Albert M., Jr.
Makant, Joseph E., Smithson, and Wunschel.

Niles, John B., Los Angeles, Calif. Canopy awning. 2,595,094, Apr. 29.

Nisolle, Léon, assignor to Centre National de la Recherche Scientifique, Paris, France. Steam power producing plant working with two water sources, the difference of temperature of which is small. 2,595,164, Apr. 29.

Nixon, Leroy, Newtown, Pa., assignor to John A. Roebling's Sons Company, Trenton, N. J. Reeling device. 2,594,484, Apr. 29.

Noe, Harold C., Upper Montclair, assignor to Kiddie Manufacturing Co., Inc., Bloomfield, N. J. Counting machine. 2,594,337, Apr. 29.

Noe, Harold C., Upper Montclair, assignor to Kiddie Manufacturing Co., Inc., Bloomfield, N. J. Article diverter. 2,594,338, Apr. 29.

Noltes, Gerrit J.: *See*—
Bosch, Alexander, and Noltes.

Noma Electric Corporation, assignee: *See*—
Kahn, Bertrand B., and Metz.

Nordberg Manufacturing Company, assignee: *See*—
Protzeller, Harry W.

Nordquist, Ronald E. J.: *See*—
Preis, Carl G., and Nordquist.

Norell, Karl T., assignor to Aktiebolaget Bofors, Bofors, Sweden. Liquid reactor. 2,594,675, Apr. 29.

Norman, W. F., Sheet Metal Mfg. Co., The, assignee: *See*—
Harner, Joe P.

North American Aviation, Inc., assignee: *See*—
Campbell, David H.

North & Judd Manufacturing Company, The, assignee: *See*—
Simpson, Henry A.

Novak, Donald H., Gary, Ind. Automobile theft alarm. 2,594,676, Apr. 29.

Novotny, Emil E., Prospectville, and G. K. Vogelsang, La Mott, Pa., assignors to The Borden Company, New York, N. Y. Polystyrene interpolymers convertible to the infusible and insoluble state. 2,594,579, Apr. 29.

Nowak, Karl, Vienna, Austria. Circuit organization adapted to receive or amplify electric oscillations. 2,594,485, Apr. 29.

Nugent, James J., Miami, Fla. Portable urinal. 2,594,339, Apr. 29.

Nyberg, Harry K., assignee: *See*—
Ravers, Jerry J., Jr.

O'Connor, John B., Evanston, assignor to Illinois Tool Works, Chicago, Ill. Fastener. 2,595,095, Apr. 29.

Öhlund, John A. I., and S. G. Berkman, Linköping, assignors to T. E. Ullman, Helgo, Helgevarma, Sweden. Trolling spoon. 2,594,981, Apr. 29.

Olah, George, assignor to Precision Developments Company Limited, London, England. Variable resistance. 2,594,796, Apr. 29.

Olden, Roger G., Princeton, N. J., assignor to Radio Corporation of America. Splashproof paper moistener. 2,594,486, Apr. 29.

Olliver, Mamie: *See*—
Baker, George L., and Olliver.

Olving, Bror G., assignee: *See*—
Hendrickson, Fritz E.

O'Malley, Anthony J., Montclair, N. J. Golf hole simulating device. 2,594,982, Apr. 29.

Opie, Kermit H., Paris, Mo. Portable baby crib. 2,594,677, Apr. 29.

O'Rear, George M., United States Navy. Centrifugally armed fuse. 2,594,340, Apr. 29.

Owen, John J., and E. V. Fasce, Baton Rouge, La., assignors to Standard Oil Development Company. Utilization of oxo bottoms. 2,594,341, Apr. 29.

Owen, Ralph D., assignor to Lord Manufacturing Company, Erie, Pa. Follow-up control. 2,595,165, Apr. 29.

Paine, Howard S.: *See*—
Hughes, Mary F., McCalip, Paine, and Rosenberg.

Pallet Devices, Inc., assignee: *See*—
Budd, Larry J.

Palmer, Wilbur C., assignor to Corning Glass Works, Corning, N. Y. Glass drill. 2,594,487, Apr. 29.

Pan American Refining Corporation, assignee: *See*—
Ridgway, John A., Jr.

Papa, Domenick: *See*—
Schwenk, Erwin, and Papa.

Pardee, Edward A., Mount Vernon, Ohio, assignor to Shell-mar Products Corporation, Chicago, Ill. Container. 2,595,202, Apr. 29.

Parke, Donald C., and R. E. Sealer, Denver, Colo. Magnetic racing amusement device. 2,594,678, Apr. 29.

Parker, Howard W.: *See*—
Stone, Albert F., Hayden, and Parker.

Parker, Paul T., Baton Rouge, La., assignor to Standard Oil Development Company. Synthesis of alcohol from olefins, carbon monoxide and hydrogen. 2,595,096, Apr. 29.

Parks & Woolson Machine Co., assignee: *See*—
Hadley, Wilfred N.

Parmelee Plastics Company, assignee: *See*—
Moeller, William C.

"Patelhold" Patentverwertungs- & Elektro-Holding A.-G., assignee: *See*—
Ehrat, Kurt, and Milliquet.

Patent Scaffolding Co., Inc., The, assignee: *See*—
Huck, Joseph.

Patrick, Tracy M., Jr.: *See*—
Emerson, William S., and Patrick.

Patrick, Tracy M., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Plasticized polyvinyl chloride compositions. 2,594,488, Apr. 29.

Patrick, Tracy M., Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo. Preparation of saturated oxonitriles. 2,594,489, Apr. 29.

Patterson, Ward S., Chappaqua, N. Y., assignor to Combustion Engineering-Superheater, Inc. Apparatus for securing dry steam. 2,594,490, Apr. 29.

Paul, Benjamin F., deceased, Elwood, Ind.; M. H. Paul, administratrix. Casket corner construction. 2,594,580, Apr. 29.

Paul, Lewis A., assignor to Beech Aircraft Corporation, Wichita, Kans. Writing and drawing implement. 2,595,097, Apr. 29.

Paul, Mildred H., administratrix: *See*—
Paul, Benjamin F.

Pauliot, Paul, assignee: *See*—
Fortin, Charles A.

Pease, Marshall C., Boston, Mass., assignor to the United States of America as represented by the Secretary of War. Transmission line. 2,594,983, Apr. 29.

Penfield, Charles S.: *See*—
Bates, William F., Gregory, and Penfield.

Penn Aircraft Products, Inc., assignee: *See*—
Wolcott, Glenn W.

Pennsylvania Salt Manufacturing Company, The, assignee: *See*—
Sprauer, Jerome W.

Penther, Carl J., Oakland, and W. B. Milligan, Albany, assignors to Shell Development Company, San Francisco, Calif. Thermostatic controller. 2,594,984, Apr. 29.

Perri, Joseph M., assignor to National Foam System, Inc., Philadelphia, Pa. Fire extinguishing foam stabilizer. 2,594,985, Apr. 29.

Persons, Alexander M., assignor to Persons-Majestic Mfg. Co., Worcester, Mass. Fender guard. 2,594,491, Apr. 29.

Persons-Majestic Mfg. Co., assignee: *See*—
Persons, Alexander M.

Pest Control Limited, assignee: *See*—
Hartley, Gilbert S.

Petrolite Corporation, Ltd., assignee: *See*—
De Grotte, Melvin, and Keiser.

Petry, Stanton H.: *See*—
Herst, Richard J., and Petry.

Pettyjohn, Don C., Crosby, Minn. Troughed belt conveyer. 2,594,342, Apr. 29.

Pfeiffer, Norman J., and F. F. Suellentrop, assignors to The Lemay Machine Company, Lemay, Mo. Apparatus for manufacturing whipped cream. 2,594,492, Apr. 29.

Phelps, Clyde H., Springfield, Ill., assignor, by mesne assignments, to Gisholt Machine Company, Madison, Wis. Balance testing machine rotor mounting. 2,594,581, Apr. 29.

Philco Corporation, assignee: *See*—
Carson, Benjamin R.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring. 2,594,986, Apr. 29.

Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Piston ring assembly and elements thereof. 2,594,987, Apr. 29.

Phillips Petroleum Company, assignee: *See*—
Freund, Robert R., and Creel.
Leonard, Nelson J.

Piller, Bohumil: *See*—
Zmatlík, Josef, Starý, Piller and Pinkava.

Pines, Herman, Riverside, assignor to Universal Oil Products Company, Chicago, Ill. Alkylation of isoparaffins. 2,594,343, Apr. 29.

Pinkava, Jan: *See*—
Zmatlík, Josef, Starý, Piller and Pinkava.

Pittsburgh Corning Corporation, assignee: *See*—
Wiley, Otis W.

Plass, Raymond B., Berkeley, and E. M. Bingham, San Rafael, Calif., assignors, by mesne assignments, to Ray Oil Burner Co. Gas burner. 2,594,797, Apr. 29.

Plax Corporation, assignee: *See*—
Bailey, James.
Fehrenbach, Ludwig K.

Poe, Joseph E., Clifton, N. C. Bean duster nozzle. 2,594,798, Apr. 29.

Poglay, Joseph, Warrensville Heights, Ohio. Air compressor accessory for vehicles. 2,595,098, Apr. 29.

Pohl, Ernest E., Elmhurst, N. Y., assignor to American Machine and Foundry Company. Code marking device for labels. 2,594,679, Apr. 29.

Pohm, George H., Lorain, Ohio, assignor to Lorain Products Corporation. Electric control apparatus. 2,595,099, Apr. 29.

Polaroid Corporation, assignee: *See*—
Casselman, Robert C., and Dominie.

Poole, Louis H.: *See*—
Fisher, Vernard P., and Poole.

Portail, Fernand, Paris, assignor to Compagnie Industrielle des Piles Electriques C. I. P. E. L., Neuilly-sur-Seine, France. Primary battery and consumer. 2,594,988, Apr. 29.

Pothier, Armand C., Woonsocket, R. I. Carburetor. 2,594,344, Apr. 29.

Powell, Edward R., North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Method and apparatus for the manufacture of mineral wool. 2,594,799, Apr. 29.

Powell, Wilson M., Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Magnetic contouring system. 2,594,989, Apr. 29.

Power Jets (Research and Development) Limited, assignee: *See*—
Sharp, Joseph G., and Ingham.

Powers, Henry L., and H. A. Reehling, assignors to Armstrong Cork Company, Lancaster, Pa. Manufacture of linoleum cement. 2,594,345, Apr. 29.

Precision Developments Company Limited, assignee: *See*—
Olah, George.

Preis, Carl G., Forest Hills, N. Y., and R. E. J. Nordquist, Maplewood, N. J., assignors to American Can Company, New York, N. Y. Mechanism for loading sheet material into magazines. 2,594,346, Apr. 29.

Products & Licensing Corporation, assignee: *See*—
Toulon, Pierre M. G.

Protzeller, Harry W., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Cribber chain. 2,594,990, Apr. 29.

Protzeller, Harry W., assignor to Nordberg Manufacturing Company, Milwaukee, Wis. Cribber chain excavating element. 2,594,991, Apr. 29.

Publicker Industries Inc., assignee: *See*—
Elving, Philip J., Shoemaker, Kabacoff, and Nagelburg.

Puerner, George O., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Circuit controlling device. 2,594,493, Apr. 29.

Pulverizing Machinery Company, assignee: *See*—
Martens, William G., Jr.

Quaker Stretcher Company, assignee: *See*—
Unwin, Kenneth J.

Quarles, John P., Huntington, W. Va. Pressure spray apparatus. 2,594,992, Apr. 29.

Quinn, Bert A., St. Paul, Minn. Spring latch. 2,594,582, Apr. 29.

Radio Corporation of America, assignee: *See*—
Barton, Loy E., and Werenfels.
Bedford, Alda V.
Daley, Charles W.
Engel, William T.
Garrahan, Eugene.
Gillespie, Henderson C.
Gulnac, Howard D.
Herbst, Philip J.
Iams, Harley.
Landon, Vernon D.
Lameshka, Milton B.
Olden, Roger G.
Stocker, Arthur C.
Sziklai, George C.
Weingarten, Morris R.

Ranney, Neil J., Mentor Township, Lake County, assignor to Wean Equipment Corporation, Cleveland, Ohio. Apparatus for the multiple coiling of slit metal strips. 2,594,800, Apr. 29.

Rappl, Anton, Eggertsville, assignor to Trico Products Corporation, Buffalo, N. Y. Convertible top mechanism. 2,594,494, Apr. 29.

Ratkovszky, Francis: *See*—
Mándi, Andrew, and Ratkovszky.

Ravers, Jerry J., Jr., Amiret, assignor of one-third to W. D. Knox and one-third to H. K. Nyberg, Tracy, Minn. Hitch. 2,595,100, Apr. 29.

Ray Oil Burner Co., assignee: *See*—
Plass, Raymond B., and Bingham.

Raynor, Gilbert E., U. S. Air Force. Ratchet mechanism. 2,595,213, Apr. 29.

Rea, Wilton T., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telegraph hub electronic loop repeater. 2,594,993, Apr. 29.

Read Standard Corporation, assignee: *See*—
Temple, Hiram E.

Red Jacket Manufacturing Co., assignee: *See*—
Deters, Elmer M.

Reed Roller Bit Company, assignee: *See*—
Boice, Elvin G.

Reedy, N., assignee: *See*—
Flick, Francis S.

Reehling, Harold A.: *See*—
Powers, Henry L., and Reehling.

Rees, Albert R., De Soto, Mo. Power supply for radio sets. 2,594,801, Apr. 29.

Reeves, Paul B., assignor to Reeves Pulley Company, Columbus, Ind. Multiple expansible pulley unit. 2,595,203, Apr. 29.

Reeves Pulley Company, assignee: *See*—
Reeves, Paul B.

Refined Syrups & Sugars, Inc., assignee: *See*—
Hughes, Mary F., McCalip, Paine, and Rosenberg.

Refrigerator Components Limited, assignee: *See*—
Wolf, Louis J.

Rehfeld, George W., Manhattan, Kans. Smoking device. 2,594,680, Apr. 29.

Reiman, Alfred E.: *See*—
Toolan, John J., and Reiman.

Rein, Joseph L., Washington, D. C. Rivet applying and removing tool. 2,594,802, Apr. 29.

Remington, Leland F.: *See*—
Clark, Elmer F., and Remington.

Research Corporation, assignee: *See*—
Richardson, Harry L.
Santangelo, Louis F.

Retallack, John B., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic recording system for call data in automatic telephony. 2,594,495, Apr. 29.

Rhodes, Oliver F., Peru, Ind. Liquid level controlled filling spout. 2,595,166, Apr. 29.

Rhodes, William A.: *See*—
De Forest, Lee, and Rhodes.

Riat, Henri, W. Anderau, J. Wegmann, H. Mayer, and K. Menzi, assignors to Ciba Limited, Basel, Switzerland. Dyeing cellulosic fibers with difficultly water-soluble copper compounds of dyestuffs using a copper-free dyestuff, and aliphatic amine, and a complex copper compound of an aliphatic hydroxy carboxylic acid. 2,594,803, Apr. 29.

Ricardo & Co. Engineers (1927) Limited, assignee: *See*—
Ricardo, Harry R., and Holt.

Ricardo, Harry R., London, and G. A. Holt, Shoreham-by-Sea, assignors to Ricardo & Co. Engineers (1927) Limited, London, England. Internal-combustion engine. 2,594,681, Apr. 29.

Rice, Harold W.: *See*—
Eskin, Samuel G., and Rice.

Rice, James W.: *See*—
Dixon, Alfred L., Gore, and Rice.

Rich, Theodore A., Schenectady, N. Y., assignor to General Electric Company. Ground detector circuit. 2,594,994, Apr. 29.

Richardson, Edgar C., Wenonah, N. J. Window construction. 2,595,167, Apr. 29.

Richardson, Harry L., Prospect Park, Pa., assignor to Research Corporation, New York, N. Y. Electrical precipitation. 2,595,204, Apr. 29.

Richardson, Martin A., assignor to J. I. Case Company, Racine, Wis. Crop cutting and delivery unit for forage cutters. 2,594,583, Apr. 29.

Richeson, Sanford E., and J. A. Allegro, New York, N. Y., assignors of one-third to L. C. Huber, Ridgewood, N. J. Pressure cooking utensil. 2,594,584, Apr. 29.

Richmond, Ralph R., Gun Plains Township, Allegan County, Mich. Vegetable cleaning and topping device. 2,594,995, Apr. 29.

Richter, George A., Jr., Springfield, Pa., assignor to American Viscose Corporation, Wilmington, Del. Making artificial fibers or threads from viscose. 2,594,496, Apr. 29.

Ricketts, Robert E., Auburn, N. Y., assignor to General Electric Company. Intermediate frequency rejection circuit. 2,594,347, Apr. 29.

Ridgway, John A., Jr., assignor to Pan American Refining Corporation, Texas City, Tex. Fractionating apparatus. 2,594,585, Apr. 29.

Ries, Rudy F., Beechhurst, assignor to Edo Corporation, College Point, N. Y. Shipping container. 2,594,586, Apr. 29.

Riley, John E., Flanders, N. J., assignor to Hercules Powder Company, Wilmington, Del. Explosive composition. 2,594,996, Apr. 29.

Ringel, Harold A., New Orleans, La. Device for automatically stripping cut-out box blanks from offal or waste. 2,594,804, Apr. 29.

Ringgold, Homer E., Milford, Del. Power-driven reciprocating drag-saw having two oppositely reciprocating blades. 2,594,997, Apr. 29.

Riordan, John A., Kermit, Tex. Bearing. 2,594,587, Apr. 29.

Ritch, George L., Harrisonville, Mo. Air scoop for automobiles. 2,594,682, Apr. 29.

Ritchie, David, Jr.: *See*—
Niederau, William E., Ritchie, and Wright.

Robertshaw-Fulton Controls Company, assignee: *See*—
Eskin, Samuel G., and Rice.
Tripp, Arthur M.

Robinson, Glen P., Jr., Oak Ridge, Tenn. Doffer comb mechanism. 2,594,497, Apr. 29.

Robinson, James D., Memphis, Tenn. Antibackflow valve. 2,594,999, Apr. 29.

Rocco, William A., Scotia, N. Y., assignor to General Electric Company. Single crystal fabrication. 2,594,998, Apr. 29.

Rochester Lead Works, Inc., assignee: *See*—
De Quasie, Lacy G., and Eisenberg.

Rockoff, Joseph, Dayton, Ohio, assignor to The Dayton Rubber Company. Rubber covered roll. 2,594,348, Apr. 29.

Rock-Ola Manufacturing Corporation, assignee: *See*—
Toolan, John J., and Reiman.

Roebling's, John A., Sons Company, assignee: *See*—
Nixon, Leroy.

Rohn, Abbott M., Detroit, Mich. Composition consisting of polyvinyl alcohol and trimethylene glycol. 2,594,498, Apr. 29.

Rolfson, Francis R., San Pablo, assignor to Shell Development Company, San Francisco, Calif. Boiling-point apparatus. 2,594,683, Apr. 29.

Rolls-Royce Limited, assignee: *See*—
Fletcher, Arthur H., Stark, Corbitt, and Sherlaw.
Morley, Charles G.
Rubbra, Arthur A.

Rommel, William G., Playa Del Rey, Calif., assignor to The Garrett Corporation, Airesearch Manufacturing Company division. Air cleaner. 2,594,805, Apr. 29.

Rop-Loc Products Co., assignee: *See*—
Zoppelt, Samuel.

Rosenbaum, Harry S., Baltimore, Md. Cord and tape clip for Venetian blinds. 2,594,806, Apr. 29.

Rosenberg, Norman: *See*—
Hughes, Mary F., McCalip, Paine, and Rosenberg.

Ross, Edmund H., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill. Voice-operated constant-level amplifier. 2,594,807, Apr. 29.

Roth, Irven G., Lorain, Ohio. Fishing lure. 2,595,168, Apr. 29.

Rothe, Ben M., San Antonio, Tex. Wrench with resilient jaw faces. 2,594,684, Apr. 29.

Rothrock, John E., Newark, assignor to Hercules Powder Company, Wilmington, Del. Producing fuming nitric acid. 2,594,588, Apr. 29.

Rowden, Joseph S.: *See*—
Shelton, Roy, and Rowden.

Rubbra, Arthur A., Littleover, Derby, assignor to Rolls-Royce Limited, Derby, England. Means for supporting the nozzles of the combustion chambers of internal-combustion turbines. 2,594,808, Apr. 29.

Rubin, Martin, Washington, D. C., E. B. Hershberg, West Orange, and E. Schwenk, Montclair, assignors to Schering Corporation, Bloomfield, N. J. Manufacture of estrone. 2,594,349, Apr. 29.

Rubin, Martin I: *See*—
Geschickter, Charles F., and Rubin.

Rudel, Harry W., Roselle Park, and J. I. Wasson, Union, N. J., assignors to Standard Oil Development Company Steam turbine lubricants. 2,595,169, Apr. 29.

Rudel, Harry W., Roselle Park, and A. D. Kirshenbaum, Union, N. J., assignors to Standard Oil Development Company. Stabilised mineral oil. 2,595,170, Apr. 29.

Ruetz, Joseph, Biel, Switzerland. Closure device for containers. 2,595,000, Apr. 29.

Rumph, Conoley O., Selma, Ala. Rotary interleaving apparatus. 2,594,499, Apr. 29.

Runnoe, Vincent J., Beaver Dam, Wis. Broiling utensil. 2,594,500, Apr. 29.

Runton, Leslie A., Dracut, Mass., assignor to J. P. Stevens & Co. Inc., New York, N. Y. Method and apparatus for blending fiber. 2,594,589, Apr. 29.

Runton, Leslie A., Dracut, Mass., assignor to J. P. Stevens & Co. Inc., New York, N. Y. Apparatus for blending fiber. 2,594,590, Apr. 29.

Runton, Leslie A., Dracut, Mass., assignor to J. P. Stevens & Co. Inc., New York, N. Y. Conveyer for feeding and spreading loose fiber into sheet form. 2,594,591, Apr. 29.

Russell, Eugene J., Yorba Linda, and A. E. Wilde, Long Beach, Calif. Golf ball marking machine. 2,594,685, Apr. 29.

Russell, F. C., Company, The, assignee: *See*—
Itaya, Oliver M.

Russell, Frank J.: *See*—
Charbonneau, Allan P., and Russell.

Russell, Harry J., assignor to Baker & Co., Inc., Newark, N. J. Measuring device for mercury and powdered metal. 2,595,101, Apr. 29.

Russell, Peter B.: *See*—
Hitchings, George H., Russell, and Falco.

Russo, James E.: *See*—
Verkuil, Leo L., and Russo.

Ruthman, Alois H., assignor to The Ruthman Machinery Company, Cincinnati, Ohio. Portable pump. 2,594,501, Apr. 29.

Ruthman Machinery Company, The, assignee: *See*—
Ruthman, Alois H.

Rutter, Alvah E., Rockford, Ill., assignor to J. I. Case Company, Racine, Wis. Plow hitch. 2,594,592, Apr. 29.

Sahs, Leonard J., Hamburg, assignor to Fedders-Quigan Corporation, Buffalo, N. Y. Liquid cooler and evaporator coil therefor. 2,594,502, Apr. 29.

Sahyun, Melville, St. Johns, Mich. Beta-diethylaminoethyl 3-phenyl-2-hydroxybenzoate mandelate. 2,594,350, Apr. 29.

St. Hilaire, Albert B., assignor to La Societe "Pyral" S. A. R. L., Paris, France. Apparatus for the manufacture of phonographic disks. 2,594,364, Apr. 29.

St. Hilaire, Albert B., assignor to La Societe "Pyral" S. A. R. L., Paris, France. Manufacture of phonographic disks. 2,594,365, Apr. 29.

St. Lawrence Paper Mills Company Limited, assignee: *See*—
Ehrensperger, Hans.

Sammons, John H., Wichita Falls, Tex. Supercharger for internal-combustion engines. 2,594,686, Apr. 29.

Sams, Herbert W., and J. S. Smith, Jr., Atlanta, Ga., assignors to Scripto, Inc. Mechanical writing instrument. 2,595,001, Apr. 29.

Samuel Stamping & Enameling Company, assignee: *See*—
Shelton, Roy, and Rowden.

Sanders, Isador, Chicago, Ill. Arm sling. 2,594,809, Apr. 29.

Sanders, Marshall T.: *See*—
Buck, Frank H., Luskin, and Sanders.

Sanders, O. W., assignee: *See*—
Madder, Harold B.

Sanderson, Gunnar, McKeesport, Pa., assignor to United States Steel Company. Movable jaw chucking device. 2,594,503, Apr. 29.

Santangelo, Louis F., Plainfield, N. J., assignor to Research Corporation, New York, N. Y. Interlocking switch and door. 2,595,102, Apr. 29.

Schaefer, Richard J., Detroit, Mich. Electrical remote control for gas. 2,595,171, Apr. 29.

Schafer, Frank, assignor to The Bell Machine Company, Oshkosh, Wis. Making match splints. 2,594,351, Apr. 29.

Scharff, J. H., Inc., assignee: *See*—
Hladky, Walter, and Ciccone.

Schaub, Erwin L., and F. Hertel, Jr., Brooklyn, N. Y. Relining worn bearing surfaces. 2,594,810, Apr. 29.

Schenke, Kurtiss P., New York, N. Y. Watch crystal. 2,595,172, Apr. 29.

Schering Corporation, assignee: *See*—
Rubin, Martin, Hershberg, and Schwenk.
Schwenk, Erwin, and Papa.

Schjolin, Hans O., Birmingham, assignor to General Motors Corporation, Detroit, Mich. Vehicle drive control. 2,594,811, Apr. 29.

Schmalenbach, Adolf, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa. Continuous distillation of tar. 2,594,352, Apr. 29.

Schmaling, George P., Sr., Armonk, N. Y. Cigarette ash receiver. 2,595,103, Apr. 29.

Schmidt, Richard F., Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Solutions of polymers of vinylidene cyanide in alkyl esters of phosphoric acid. 2,594,353, Apr. 29.

Schmidt, Willy A.: *See*—
Sprung, Joseph A., and Schmidt.

Schmirler, Leona W., Wausau, Wis. Carton for holding eggs. 2,594,504, Apr. 29.

Schneider, Kurt A., Sandston, Va. Display stand. 2,595,002, Apr. 29.

Schnepel, Douglas V., Elmira, N. Y. Transverse sliding breech bolt lock. 2,594,354, Apr. 29.

Schofield, Edwin R.: *See*—
Hess, Frederic O., Tark, and Schofield.

Schulte, Elwood V., assignor to Koppers Company, Inc., Pittsburgh, Pa. Recovery of ammonium sulfate. 2,595,104, Apr. 29.

Schweizerische Lokomotiv- und Maschinenfabrik, assignee: *See*—
Sonderegger, Konrad.

Schwenk, Erwin: *See*—
Rubin, Martin, Hershberg, and Schwenk.

Schwenk, Erwin, Montclair, N. J., and D. Papa, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J. Production of hydroxylated aliphatic compounds including hydroxylated aliphatic carboxylic acids and lactones thereof. 2,594,355, Apr. 29.

Schwimmer, Sigmund, Albany, and A. K. Balls, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture. Isolation of alpha-amylase from malt extract. 2,594,356, Apr. 29.

Schwitzer-Cummins Company, assignee: *See*—
Hardy, James A.

Scott, Lewis L., Glendale, Mo. Basement heating system. 2,595,105, Apr. 29.

Scott, Thurman T., Thomasville, Ga. Spreader for chemical fertilizer material having spiral elements for manipulating the material. 2,594,687, Apr. 29.

Scovill Manufacturing Company, assignee: *See*—
Troske, Frederick W.

Scripto, Inc., assignee: *See*—
Sams, Herbert W., and Smith.

Scudder, Frederick J., Manhasset, and E. Vroom, Ossining, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Calling line identification and registering system. 2,594,505, Apr. 29.

Scudder, Frederick J., Manhasset, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Recording telephone system. 2,595,106, Apr. 29.

Sealer, Richard E.: *See*—
Parke, Donald C., and Sealer.

Seaman, Richard H., assignor to Mega Corporation, Los Angeles, Calif. Electronic animated advertising sign system. 2,594,357, Apr. 29.

Seamon, A. & L., assignee: *See*—
Seamon, Louis.

Seamon, Louis, assignor to A. & L. Seamon, Brooklyn, N. Y. Bill case. 2,595,003, Apr. 29.

Sears, Richard E., Cleveland Heights, and A. F. Karlin, Bedford, assignors to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio. Starter jaw meshing device. 2,595,004, Apr. 29.

Seeburg, J. P., Corporation, assignee: *See*—
Johnson, Carl G.

Seeburg, J. P., Corporation, assignee: *See*—
Kenney, Mahlon W.

Seelenfreund, Louis M., assignor to Action Buffs, Inc., Chicago, Ill. Buffing wheel. 2,594,812, Apr. 29.

Sees, James E., Washington, D. C. Devise for automatically tracking heavenly bodies. 2,595,205, Apr. 29.

Selbert, Edward G., Scarsdale, N. Y. Automobile window sunvisor shade. 2,594,813, Apr. 29.

Selas Corporation of America, assignee: *See*—
Hess, Frederic O., Tark, and Schofield.

Selector, Inc., assignee: *See*—
Strudwick, Arthur E.

Seneca Falls Machine Company, assignee: *See*—
Smith, Edwin R.

Seng Company, The, assignee: *See*—
Lundberg, Gustave E.

Sewell, Ben W., Tulsa, Okla., assignor to Standard Oil Development Company. Drilling procedure and apparatus. 2,595,107, Apr. 29.

Shapiro, Eli, assignor to Dearborn Stove Company, Dallas, Tex. Hinged door and motor support for window coolers. 2,594,688, Apr. 29.

Shara, Andrew: *See*—
Care, Samuel J., and Shara.

Sharp, Joseph G., Chilwell, near Beeston, and R. E. Ingham, Brandsby, assignors to Power Jets (Research and Development) Limited, London, England. Fluid operated speed governor. 2,594,689, Apr. 29.

Sharpe, Everett E.: *See*—
Krueger, Theodore H., and Sharpe.

Sharpe, Frederick P., Dearborn, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel assembling machine. 2,594,506, Apr. 29.

Sharples Corporation, The, assignee: *See*—
Keith, Frederick W., Jr.
Smith, Frederick H.

Shaw, Ralph R., Washington, D. C., assignor to the United States of America as represented by the Secretary of Agriculture. System and apparatus for selective photographing. 2,594,358, Apr. 29.

Shell Development Company, assignee: *See*—
Bates, William F., Gregory, and Penfield.
Penther, Carl J., and Milligan.
Rolfson, Francis B.
Stokesbary, Walter A.
Stross, Fred H., Abrams, and Moore.

Shellmar Products Corporation, assignee: *See*—
Pardee, Edward A.

Shelton, Roy, and J. S. Rowden, assignors to Samuel Stamping & Enameling Company, Chattanooga, Tenn. Combined drip pan and gas burner structure. 2,595,005, Apr. 29.

Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Apparatus for handling hot metal rods. 2,595,006, Apr. 29.

Sheppard, Raymond, Schenectady, N. Y., assignor to General Electric Company. Turbine governing system. 2,595,007, Apr. 29.

Sherlaw, William: *See*—
Fletcher, Arthur H., Stark, Corbitt, and Sherlaw.

Shiffler, William H., assignor to California Research Corporation, San Francisco, Calif. Continuous process for neutralizing and spray drying an organic sulfonic acid. 2,594,690, Apr. 29.

Shmidl, Albert J., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Trithials of salicaldehyde and their chlorinated derivatives as insecticidal and fungicidal compositions. 2,595,173, Apr. 29.

Shoemaker, Edward: *See*—
Elving, Philip J., Shoemaker, Kabacoff, and Nagelburg.

Shoenberger, Helen I., and F. K. Stevenson, Warren, Ohio. Paper fastener. 2,595,108, Apr. 29.

Siegel, A. L., Co., Inc., assignee: *See*—
Levitt, Benjamin A.

Sigerist, Rudolf, Zurich, Switzerland. Heater. 2,594,507, Apr. 29.

Sigler, Doris, and F. E. Walsky, Baltimore, Md. Hat anchor. 2,594,814, Apr. 29.

Signode Steel Strapping Company, assignee: *See*—
Childress, William C., and Ericsson.
Leslie, John H., II.

Sill, Walter R., Long Island, N. Y. Broken pipe extractor. 2,595,008, Apr. 29.

Silién, Gabriel O., Stockholm, Sweden. Washstand combined with water closet. 2,595,009, Apr. 29.

Simmons Company, assignee: *See*—
Woller, Edward E.

Simons, Joseph H.: *See*—
Kauck, Edward A., and Simons.

Simpson, Benjamin H., Minneapolis, Minn. Butter warming receptacle. 2,595,010, Apr. 29.

Simpson, Clarence E., Springfield, Mass., assignor to the United States of America as represented by the Secretary of War. Firing mechanism for automatic firearms with nonaxial rectilinear breechblock motion. 2,594,359, Apr. 29.

Simpson, Henry A., Philadelphia, Pa., assignor to The North & Judd Manufacturing Company, New Britain, Conn. Manufacture of slide fasteners. 2,594,691, Apr. 29.

Sinclair Refining Company, assignee: *See*—
Beare, Leonard E.

Singer, Bessie, Philadelphia, Pa. Corsage holder. 2,595,174, Apr. 29.

Singer Manufacturing Company, The, assignee: *See*—
Wood, Alfred R.

Singer, Mor J., The Hague, Netherlands. Rotatably mounted reflector and light. 2,595,011, Apr. 29.

Siperek, Siegmund, Detroit, Mich. Garage door. 2,594,360, Apr. 29.

Sitton, Elbert R., Houston, Tex. Lawn edger. 2,594,508, Apr. 29.

Skillman, Edward, assignor to The J. B. Ehrsam & Sons Manufacturing Co., Enterprise, Kans. Synchronizing means for rotors. 2,594,692, Apr. 29.

Skog, Henry A., Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Pear peeling mechanism. 2,594,361, Apr. 29.

Skog, Henry A., Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg. Fruit pitting and peeling apparatus. 2,594,362, Apr. 29.

Šlechta, Jaroslav, Prague Vysocany, assignor of one-half to Aviation Works, National Corporation, Prague, Czechoslovakia. Constructional unit for the control of the ailerons and elevator of airplanes. 2,594,593, Apr. 29.

Smidth, F. L., & Co., assignee: *See*—
Ahlmann, Nikolai.

Smith, A. O., Corporation, assignee: *See*—
Granberg, Neil B.
Uhri, William C.

Smith, Christopher B., Naphill, assignor to Broom and Wade Limited, High Wycombe, England. Unloader for sleeve valve gas compressors. 2,594,815, Apr. 29.

Smith, Dennis W., assignor to Colborne Manufacturing Company, Chicago, Ill. Pie plate depositor. 2,595,013, Apr. 29.

Smith, Edwin R., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y. Intermittent and proportionate pattern control mechanism for machine tools. 2,594,694, Apr. 29.

Smith, Frank E., Niagara Falls, N. Y. Alternating current rectifier. 2,594,594, Apr. 29.

Smith, Frederick H., Wyncote, Pa., assignor to The Sharples Corporation. Hollow circular article and making same. 2,594,693, Apr. 29.

Smith, James M., Jr.: *See*—
Hultquist, Martin E., and Smith.

Smith, John S., Jr.: *See*—
Sams, Herbert W., and Smith.

Smith, Lester W. and L. W., Jr., Corpus Christi, Tex. Hydrostatic pulling tool for wells. 2,595,014, Apr. 29.
Smith, Lester W., Jr.: *See*—
Smith, Lester W. and L. W., Jr.
Smith, Thomas R., assignor to The Maytag Company, Newton, Iowa. Spring biased valve seat seal. 2,595,012, Apr. 29.
Smith, William O.: *See*—
Chu, Lan J., and Smith.
Smithson, Gordon W.: *See*—
Makant, Joseph E., Smithson, and Wunschel.
Smyth, William: *See*—
Steube, John W., and Smyth.
Snow, Warren S., assignor to Crompton & Knowles Loom Works, Worcester, Mass. Lubricating system for loom letoffs. 2,594,816, Apr. 29.
Snyder, Eugene L.: *See*—
Gerber, Dale C., Martin, and Snyder.
Snyder, H. P., Manufacturing Company, Inc., assignee: *See*—
Haug, Edward.
Sobel, Albert E., Brooklyn, N. Y. Vitamin A determination and agents therefor. 2,594,817, Apr. 29.
Societe francaise Sadir-Carpentier, assignee: *See*—
Marie, Robert P.
Societe Nationale de Constructions Aeronautiques du Sud-Ouest (Societe Anonyme), assignee: *See*—
Morain, Paul.
Sohns, Virgil E.: *See*—
Blom, Russell H., Sohns, and Moyer.
Solar Corporation, assignee: *See*—
Castner, George P.
Solvay & Cie, assignee: *See*—
Berteaux, Raoul P. J.
Sonderegger, Konrad, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland. Air-cooled internal-combustion engine with air filter. 2,595,175, Apr. 29.
South Bend Bait Company, assignee: *See*—
Beyer, Raymond H.
Southworth Machine Company, assignee: *See*—
Aberle, Roy F.
Sparks, William B., Virginia Beach, Va., assignor to Bemis Bro. Bag Company, St. Louis, Mo. Lift control. 2,595,015, Apr. 29.
Special Equipment Company, assignee: *See*—
Skog, Henry A.
Spector, Sam, Shaker Heights, and G. J. Teplanszki, Lakewood, assignors to Tilt-Type Products, Inc., Cleveland, Ohio. Storm window. 2,595,016, Apr. 29.
Spero, George B.: *See*—
Levin, Robert H., McIntosh, and Spero.
Sperry Corporation, The, assignee: *See*—
Lancor, Joseph H., Jr., and Binns.
Sponge Products Corporation, assignee: *See*—
Greenleaf, Nathaniel B., and Webster.
Sprague, Theodore S., and B. N. McDonald, Aurora, Ill., assignors to The Babcock & Wilcox Company, New York, N. Y. Temperature control system for a fluid under pressure. 2,594,818, Apr. 29.
Sprauer, Jerome W., Niagara Falls, N. Y., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Production of water-soluble lithium salts from lithium alkali phosphates. 2,595,176, Apr. 29.
Sprung, Joseph A., and W. A. Schmidt, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y. Bis-β-aromatic sulfonhydrazides. 2,595,017, Apr. 29.
Stahl, Elmer R., Meyersdale, Pa., assignor to Celanese Corporation of America. Textile device. 2,594,509, Apr. 29.
Standard Brands Incorporated, assignee: *See*—
Barch, William E.
Standard Oil Company, assignee: *See*—
Bowman, Norman J., and Weitkamp.
Standard Oil Development Company, assignee: *See*—
Connolly, Gerald C.
Heinrich, Raymond L.
Kriegel, Monroe W.
McCue, Cyril F., and Broom.
Morway, Arnold J., and Young.
Mounce, Whitman D.
Owen, John J., and Fasce.
Parker, Paul T.
Rudel, Harry W., and Kirshenbaum.
Rudel, Harry W., and Wasson.
Shmidl, Albert J.
Sewell, Ben W.
Wilson, Samuel W.
Wrightsman, Gilbert G.
Stark, Frank H.: *See*—
Fletcher, Arthur H., Stark, Corbitt, and Sherlaw.
Starý, Miroslav: *See*—
Zmatlík, Josef, Starý, Piller, and Pinkava.
Steady, Earle R., Laconia, N. H. Pitch finder for levels. 2,595,109, Apr. 29.
Stearn, William T., Cumberland, Md., assignor to Celanese Corporation of America, New York, N. Y. Yarn tension device. 2,594,510, Apr. 29.
Stearns, Dick E., Shreveport, La. Surge generator. 2,594,595, Apr. 29.
Steele, Arthur E., McKeesport, Pa., assignor to Air Products, Incorporated. Liquid pumping system. 2,594,512, Apr. 29.
Steele, Frederick I., Columbus, Ohio, assignor to Curtiss-Wright Corporation. Automatic latching mechanism. 2,594,511, Apr. 29.
Stenson, Charles E., Hubbard, and A. W. Kelly, assignors to The Youngstown Steel Tank Company, Youngstown, Ohio. Flange rolling mill. 2,594,819, Apr. 29.
Stephenson, Gene R., Sheridan, Oreg. Wire stripper. 2,594,363, Apr. 29.
Stern, Charles, Geneva, Switzerland. Manufacturing timepiece dials. 2,594,820, Apr. 29.
Stetson, Allyn F., Chicago, Ill. Power sprinkler shutoff. 2,594,596, Apr. 29.
Steube, John W., Mystic, and W. Smyth, Noank, Conn. Setting and furling sails. 2,595,110, Apr. 29.
Stevens, J. P., & Co. Inc., assignee: *See*—
Runton, Leslie A.
Stevens, Joseph D., Cushing, Okla. Peanut harvester pick-up. 2,595,117, Apr. 29.
Stevens, Roy R.: *See*—
May, Harry C., and Stevens.
Stevenson, Fannie K.: *See*—
Shoenberger, Helen I., and Stevenson.
Steward, William A., Maplewood, Mo. Pad structure. 2,595,111, Apr. 29.
Stienen, Ernest A., Peekskill, N. Y. Spindle adapter for supporting rayon cakes. 2,594,366, Apr. 29.
Stocker, Arthur C., Collingswood, N. J., assignor to Radio Corporation of America. Linearity control sweep circuits. 2,594,513, Apr. 29.
Stokesbary, Walter A., Bakersfield, assignor to Shell Development Company, San Francisco, Calif. Drilling sub for sidewall samplers. 2,595,018, Apr. 29.
Stone, Albert F., E. A. Hayden, and H. W. Parker, Callahan, Calif. Filing and joining gauge for saw chains. 2,594,821, Apr. 29.
Storey, Norman C., Miami, Fla. Hinged section power steered vehicle. 2,594,695, Apr. 29.
Story, Walter R., Bellevue, Ky. Adhesive collar stay package. 2,595,112, Apr. 29.
Stricklin, Harry C., Euclid, Ohio. Typewriter page end indicator. 2,595,178, Apr. 29.
Stromberg-Carlson Company, assignee: *See*—
Elliott, George.
Stross, Fred H., S. T. Abrams, and R. J. Moore, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Preparation of greases. 2,594,822, Apr. 29.
Strudwick, Arthur E., Long Lake, assignor to Selector, Inc., Minneapolis, Minn. Device for evaluating horses. 2,594,696, Apr. 29.
Suellentrop, Fred F.: *See*—
Pfeiffer, Norman J., and Suellentrop.
Sullivan, James F., Camden, N. J. Bait for rodent traps. 2,595,019, Apr. 29.
Sun Oil Company, assignee: *See*—
Hirschler, Alfred E.
Sundstrand, Oscar J., West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y. Interlock between control members and register analyzing mechanism in typewriter-computers. 2,595,020, Apr. 29.
Suverkrop, Lew, Bakersfield, Calif. Plumb bob. 2,594,823, Apr. 29.
Swan-Finch Oil Corporation, assignee: *See*—
Bryant, William C., and Frost.
Swanson, Secerel S., Dallas, Tex. Measuring device. 2,595,021, Apr. 29.
Swart, Gilbert H., assignor to The General Tire and Rubber Company, Akron, Ohio. Butadiene methyl-o-chlorocinnamate copolymer. 2,594,824, Apr. 29.
Sweet, Monroe H., Binghamton, assignor to General Aniline & Film Corporation, New York, N. Y. Comparison type densitometer. 2,594,514, Apr. 29.
Swift, John W., assignor of one-half to J. J. Walthour, Pueblo, Colo. Treadle operated gate. 2,594,515, Apr. 29.
Swisher, Thomas H., Elmhurst, Ill., assignor to Hotpoint Inc. Prefabricated counter sections and assemblies thereof. 2,594,516, Apr. 29.
Sylvania Electric Products Inc., assignee: *See*—
Casellini, Ezio T.
Davis, James N.
Gartner, Stanley J.
Sziklai, George C., Princeton, N. J., assignor to Radio Corporation of America. Centering and amplitude control apparatus for cathode-ray beams. 2,594,517, Apr. 29.
Taberer, John H., Burlington, N. J. Sectional container. 2,595,113, Apr. 29.
Tark, Marcus B.: *See*—
Hess, Frederic O., Tark, and Schofield.
Tatham, Willard L., Decatur, Ill. Piston packing ring assembly. 2,594,697, Apr. 29.
Tawney, Pliny O., Passaic, N. J., assignor to United States Rubber Company, New York, N. Y. Interpolymers of selected poly-(2-alkenoxyalkyl) esters of fumaric acid and selected 2-alkenyl compounds. 2,594,825, Apr. 29.
Taylor, George W., West Terre Haute, Ind. Cover top for trailer bodies. 2,594,597, Apr. 29.
Teale, Harold A., Brooklyn, assignor to G. B. Finnegan, Jr., trustee, New York, N. Y. Filter press plate. 2,594,518, Apr. 29.
Tecalemit Limited, assignee: *See*—
Le Clair, Camille C. S.
Technicolor Motion Picture Corporation, assignee: *See*—
Griffith, Everette E., and Clark.
Teledetector, Inc., assignee: *See*—
McKee, Chester W. and R. W.

Teleregister Corporation, The, assignee: *See*—
Bumstead, Ralph W.
Connolly, John J.
May, Harold F.
Temple, Hiram E., San Gabriel, Calif., assignor to Read Standard Corporation. Selective article spacing apparatus for conveyers. 2,595,022, Apr. 29.
Teplanszki, George J.: *See*—
Spector, Sam, and Teplanszki.
Texas Company, The, assignee: *See*—
Eastman, Du Bois, and Gaucher.
Thomas, Emory M., Independence, Mo. Novelty device in nature of viewing means. 2,594,698, Apr. 29.
Thompson, Ralph B.: *See*—
Bloch, Herman S., and Thompson.
Thompson, Ruth E., Morristown, N. J. Rack for plastic dish covers. 2,594,699, Apr. 29.
Thompson, Sam, Houston, Tex. Power-driven hammer. 2,594,522, Apr. 29.
Thurber, Walter P., Valley Stream, and J. I. Montel, Jamaica, N. Y. Proportioning and feeding apparatus. 2,594,519, Apr. 29.
Tiedman, Clarence C., Tonawanda, N. Y. Two-hand press control device. 2,594,520, Apr. 29.
Tilt-Type Products, Inc., assignee: *See*—
Spector, Sam, and Teplanszki.
Timken Roller Bearing Company, The, assignee: *See*—
McNicoll, David.
Timmins, George M., Ambler, Pa. Garden tool. 2,594,598, Apr. 29.
Tingley, Arthur N., Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del. Knitted fabric. 2,594,521, Apr. 29.
Toffiemire, Benjamin F., Lafayette, Calif. Gingival-aperture dental matrix band. 2,594,367, Apr. 29.
Tom, John E., East Cleveland, assignor to Earl Realty Company, Cleveland, Ohio. Tractor attachment. 2,595,023, Apr. 29.
Toolan, John J., and A. E. Reiman, assignors, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill. Coin switch. 2,594,826, Apr. 29.
Toulon, Pierre M. G., Paris, France, assignor to Products & Licensing Corporation, New York, N. Y. Contact arc suppression. 2,595,024, Apr. 29.
Towne, Richard S., South Bend, Ind., assignor to General Aniline & Film Corporation, New York, N. Y. Addition of monobasic organic acids to the esters of monohydric alkynols. 2,594,827, Apr. 29.
Tradewinds, Inc., assignee: *See*—
Erickson, Charles E.
Trane Company, The, assignee: *See*—
Miner, Robert G., and Andersen.
Trautvetter, George: *See*—
Ledwinka, Joseph, and Trautvetter.
Treadway, Robert H.: *See*—
Heisler, Edward G., and Treadway.
Trico Products Corporation, assignee: *See*—
Horton, Erwin C.
Rappl, Anton.
Tripp, Arthur M., Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company. Automatic self-locking indexing head. 2,594,828, Apr. 29.
Tripplehorn, James C., Pampa, Tex. Spiraled paraffin remover for oil wells. 2,595,025, Apr. 29.
Troske, Frederick W., assignor to Scovill Manufacturing Company, Waterbury, Conn. Selective orienting button positioning machine. 2,595,206, Apr. 29.
Uberti, Eugene, Medford, deceased; P. Uberti, administrator, assignor to P. Uberti, Malden, Mass. Hammer mechanism for use in straightening automobile bodies and fenders. 2,595,207, Apr. 29.
Uberti, Pasquale, administrator, assignee: *See*—
Uberti, Eugene.
Uhri, William C., assignor to A. O. Smith Corporation, Milwaukee, Wis. Tank opening assembly. 2,594,599, Apr. 29.
Ullman, Torsten E., assignee: *See*—
Öhlund, John A. I., and Bergman.
Underwood Corporation, assignee: *See*—
Sundstrand, Oscar J.
Union Carbide and Carbon Corporation, assignee: *See*—
Meincke, Edward.
Union Oil Company of California, assignee: *See*—
Berg, Clyde H. O.
Neff, Loren L.
Union Special Maschinenfabrik, G. m. b. H., assignee: *See*—
Lutz, Friedrich.
United Last Company, assignee: *See*—
Barto, Charles F.
United Shoe Machinery Corporation, assignee: *See*—
Mariner, Norman E.
United States Atomic Energy Commission, United States of America as represented by the, assignee: *See*—
Booth, Eugene T., Jr.
Gordon, Carroll M.
Mannal, Clifford.
Monk, George S.
Powell, Wilson M.
Wouters, Louis F.
United States of America, assignee: *See*—
Welch, Henry.
United States Rubber Company, assignee: *See*—
Ladd, Elbert C., and Harvey.
Tawney, Pliny O.

United States Steel Company, assignee: *See*—
Sanderson, Gunnar.
Universal Oil Products Company, assignee: *See*—
Bloch, Herman S., and Thompson.
Hanson, Olaf M., and Linn.
Linn, Carl B.
Pines, Herman.
Unwin, Kenneth J., assignor, by mesne assignments, to Quaker Stretcher Company, Kenosha, Wis. Folding curtain stretcher. 2,594,368, Apr. 29.
UpJohn Company, The, assignee: *See*—
Levin, Robert H., McIntosh, and Spero.
Meyer, Curtis E., and De Vries.
Upton, Frederick P., New Rochelle, N. Y., assignor to Berke Brothers Distilleries Inc., Boston, Mass. Sundial and compass. 2,594,600, Apr. 29.
Urscheler, Emil, St. Gallen, assignor to Brutsch & Co., Zurich, Switzerland. Bobbin casing retaining means. 2,594,523, Apr. 29.
Valenta, Frank C., Burbank, Calif. Fowl scalding apparatus. 2,594,829, Apr. 29.
Valenzuela, Ralph C., Los Angeles, Calif. Sectional plant pot. 2,594,307, Apr. 29.
Vance, John E., Canton, assignor to The Hoover Company, North Canton, Ohio. Headlight for suction cleaners. 2,594,524, Apr. 29.
Van Voorhis, Stanley N., Rochester, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of Navy. Indicator. 2,594,870, Apr. 29.
Varker, Thomas L., Dallas, Pa. Collapsible garment hanger. 2,595,026, Apr. 29.
Veeder-Root Incorporated, assignee: *See*—
Bliss, Harvey N.
Vella, Ruby S., Los Angeles, Calif. Chair convertible into a table and vice versa. 2,595,179, Apr. 29.
Verdier, Jean G. C. J., Cannes, France, assignor, by mesne assignments, to Biothermal Process Corporation. Treatment of garbage through fermentation. 2,595,027, Apr. 29.
Verkuil, Leo L., and J. E. Russo, assignors to Edwards Company, Inc., Norwalk, Conn. Fire alarm signal station box. 2,594,369, Apr. 29.
Vincent, Daniel B., assignor to Dan B. Vincent, Inc., Tampa, Fla. Treating fish press fluids. 2,595,180, Apr. 29.
Vincent, Daniel B., Tampa, Fla. Stock food and making same. 2,595,181, Apr. 29.
Vincent, Dan B., Inc., assignee: *See*—
Vincent, Daniel B.
Voege, James E.: *See*—
Belcher, Daniel, Williams, and Voege.
Vogelsang, George K.: *See*—
Novotny, Emil E., and Vogelsang.
Vogelsang, George K., La Mott, Pa., assignor to The Borden Company, New York, N. Y. Substantially infusible nitrogenous resins and producing same. 2,594,601, Apr. 29.
Vroom, Edward: *See*—
Hersey, Ralph E., and Vroom.
Scudder, Frederick J., and Vroom.
Vutz, Wilhelm, Coldwater, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio. Vehicle body structure. 2,595,028, Apr. 29.
Wade, William L., Birkdale, Southport, England. Rod of dental impression material. 2,594,830, Apr. 29.
Walden, Clarence B., and C. Kravagna, Los Angeles, Calif. Valve. 2,594,525, Apr. 29.
Wallace, Lawrence W., and C. W. Kincaid, Cincinnati, Ohio. Vaporizer. 2,595,029, Apr. 29.
Wallace, William E., Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y. Bis[2 - diethanolamino - 4 - p - anisidino - 1,3,5 - triazyl-(6) -] - 4,4′ - diaminostilbene - 2,2′ - disulfonic acid. 2,595,030, Apr. 29.
Walsh, Richard T.: *See*—
Alexander, George, and Walsh.
Walsky, Frank E.: *See*—
Sigler, Doris, and Walsky.
Walter, George L., Los Angeles, Calif. Trouser hanger. 2,594,602, Apr. 29.
Walthour, John J., assignee: *See*—
Swift, John W.
Walton, Robert O., assignor to Merla Tool Corporation, Dallas, Tex. Well flow device. 2,594,831, Apr. 29.
Wanish, George G., Cortland, N. Y. Corset. 2,595,031, Apr. 29.
War, United States of America as represented by the Secretary of, assignee: *See*—
Alford, Andrew.
Bloch, Felix.
Chu, Lan J., and Smith.
Cohn, Seymour B., and Early.
Gray, John W.
Marchetti, John W.
McKendry, John K.
Pease, Marshall C.
Simpson, Clarence E.
Warburton, Dick M., Painesville, assignor to Diamond Alkali Company, Cleveland, Ohio. Separating metal halides. 2,594,370, Apr. 29.
Ward, Robert I., Itasca, Ill. Differential protective relaying system. 2,594,371, Apr. 29.

Wasson, Jones I.: *See*—
Rudel, Harry W., and Wasson.

Watson, George F., assignor to The Christensen Machine Company, Racine, Wis. Sheet separator air blast nozzle. 2,594,373, Apr. 29.

Watson, Wallace B.: *See*—
Earls, Howard G., and Watson.

Wattenberger, Vernon J., Schenectady, N. Y., assignor to General Electric Company. Shock resistant static overload relay. 2,594,372, Apr. 29.

Watts, George A.: *See*—
Kerr, Howard J., Fletcher, Koolstra and Watts.

Wean Equipment Corporation, assignee: *See*—
Ranney, Neil J.

Webster, Leonard C.: *See*—
Greenleaf, Nathaniel B., and Webster.

Wechsler, Sammy, New York, N.Y. Spring operated toy. 2,594,527, Apr. 29.

Wegmann, Jacques: *See*—
Riat, Henri, Anderau, Wegmann, Mayer and Menzi.

Weingarten, Morris R., Lancaster, Pa., assignor to Radio Corporation of America. Adjustable carrier for conveyer systems. 2,595,182, Apr. 29.

Weitkamp, Alfred W.: *See*—
Bowman, Norman J., and Weitkamp.

Welch, Henry, Silver Spring, Md., assignor to the United States of America. Streptomycin-polymyxin-bacitracin composition. 2,594,374, Apr. 29.

Wendel, Frans B., Nokomis, Fla. Cigar and cigarette lighter. 2,594,700, Apr. 29.

Wensley, Roy J., Charlotte, Mich. Protective relay for transmission systems. 2,595,032, Apr. 29.

Wentzel, Frank C., Philadelphia, Pa. Dental impression tray. 2,594,832, Apr. 29.

Werenfels, Peter H.: *See*—
Barton, Loy E., and Werenfels.

Western Electric Company, Incorporated, assignee: *See*—
Dixon, Alfred L., Gore and Rice.
Haase, Carl O.
Hamilton, James O.
Jensen, Vernon A.

Westinghouse Air Brake Company, assignee: *See*—
Aikman, Burton S.
Douglass, Myrl R.
Erson, Erik G.
Jerome, Arthur L.
May, Harry C., and Stevens.

Wheeler, Henry C., assignor to Acme Shear Company, Bridgeport, Conn. Pinking shears. 2,595,033, Apr. 29.

White, Harry B., Canton, assignor to The Hoover Company, North Canton, Ohio. Toasting mechanism. 2,594,528, Apr. 29.

White, Starley M., Fort Wayne, Ind. Pumping system and storage tank. 2,594,833, Apr. 29.

Whitworth, Sir W. G., Armstrong, Aircraft Limited, assignee: *See*—
Elliott, Frederick R.

Wickerham, Lynferd J.: *See*—
Cordon, Theone C., and Wickerham.

Wicks, Orville P., Minneapolis, Minn. Collapsible line support. 2,595,183, Apr. 29.

Wieland, Peter: *See*—
Miescher, Karl, and Wieland.

Wieseltier, Zeev, Tel Aviv, Palestine. Lawn and crop sprinkler. 2,595,114, Apr. 29.

Wilbushewich, Eugen, Haifa, Israel. Freezing machine. 2,594,529, Apr. 29.

Wild, Rudolf F., Wilmington, Del., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Antihunting measuring and controlling apparatus. 2,595,034, Apr. 29.

Wilde, Arthur E.: *See*—
Russell, Eugene J., and Wilde.

Wilder, Hugh J., assignee: *See*—
Culp, Lide C.

Wiley, Otis W., Sedalia, Mo., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa. Apparatus for cutting and sizing cellular glass slabs. 2,595,115, Apr. 29.

Wilhoit, John W., Jr., assignee: *See*—
Leftwich, Edmund H.

Wilhoit, Richard M., assignee: *See*—
Leftwich, Edmund H.

Wilkinson Sword Company Limited, assignee: *See*—
Hansard, Douglas A.

Willbrandt, Franklin M., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich. Carton filling and weighing machine. 2,595,035, Apr. 29.

Williams, George W., assignee: *See*—
Ames, Robert G.

Williams, George W., III, assignee: *See*—
Ames, Robert G.

Williams, Katherine A., assignee: *See*—
Ames, Robert G.

Williams, Russel J.: *See*—
Belcher, Daniel, Williams, and Voege.

Wilson, Edward G., Iowa Falls, Iowa. Fuel burning hot air heating unit. 2,594,834, Apr. 29.

Wilson, Samuel W., Baton Rouge, La., assignor to Standard Oil Development Company. Isopropanol odor improvement by azeotropic distillation. 2,595,116, Apr. 29.

Wolcott, Glenn W., assignor to Penn Aircraft Products, Inc., Dayton, Ohio. Apparatus for double flaring tubes. 2,595,036, Apr. 29.

Wolf, Louis J., Westminster, assignor to Refrigerator Components Limited, London, England. Expansion valve for use in refrigerating and like apparatus. 2,594,701, Apr. 29.

Wolf, Robert J., Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Inherently processable interpolymers of vinyl chloride, a higher alkyl acrylate, and a mono-isoolefin. 2,594,375, Apr. 29.

Wolfe, George H.: *See*—
Mackenzie, Dorothy E., and Wolfe.

Wolfskill, John M., Erie, Pa. Piezoelectric crystal apparatus. 2,595,037, Apr. 29.

Woller, Edward E., Kenosha, Wis., assignor to Simmons Company. Sofa bed. 2,595,038, Apr. 29.

Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Adjustable coil spring center support. 2,595,039, Apr. 29.

Wood, Alfred R., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Cop winding machine. 2,595,040, Apr. 29.

Woodard, Stanley W., assignor to Dale Service Corp., Houston, Tex. Retrievable marine marker. 2,594,702, Apr. 29.

Wornstaff, Archie L., assignor of twenty-four per cent to J. R. Wornstaff, Portland, Oreg. Wallpaper holder. 2,594,835, Apr. 29.

Wornstaff, James R., assignee: *See*—
Wornstaff, Archie L.

Worthington Pump and Machinery Corporation, assignee: *See*—
Meeker, Herbert J.

Wouters, Louis F., Oakland, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Photomultiplier tube circuit. 2,594,703, Apr. 29.

Wright, Paul L.: *See*—
Niederau, William E., Ritchie, and Wright.

Wright, William C., Hickory, N. C. Top roll. 2,595,041, Apr. 29.

Wrightsman, Gilbert G., Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J. Consolidating or plugging sands. 2,595,184, Apr. 29.

Wunderlich, Albert G., and J. Bonato, Telluride, Colo. Adjustable throw eccentric. 2,594,836, Apr. 29.

Wunschel, Kenneth R.: *See*—
Makant, Joseph E., Smithson, and Wunschel.

Wurlitzer, Rudolph, Company, The, assignee: *See*—
Hayslett, Lamar E.

Wyllie, Malcolm R. J., Indiana Township, Allegheny County, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Nonpolarizing electrode for electric logging of boreholes. 2,595,042, Apr. 29.

Wyss, Alphonse, Bottmingen, near Basel, Switzerland. Guide roller device for protective caps for the outlet openings of glass-melting furnaces. 2,594,837, Apr. 29.

Yardney International Corp., assignee: *See*—
André, Henri.
André, Henri G.

Young, Clarence H., Lincoln Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Amplifying system. 2,594,530, Apr. 29.

Young, David W.: *See*—
Morway, Arnold J., and Young.

Youngstown Steel Tank Company, The, assignee: *See*—
Stenson, Charles E., and Kelly.

Zamboni, Frank J., Hynes, Calif. Refrigerated liquid storage tank. 2,594,603, Apr. 29.

Zarkin Machine Co., Inc., assignee: *See*—
Halpern, Bernard R.

Zauderer, Jerome, New York, and B. J. Aleck, Brooklyn, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J. Apparatus for the solution of linear simultaneous equations. 2,595,185, Apr. 29.

Zavody pre Chemicku Vyrobu, narodny podnik, assignee: *See*—
Zmatlík, Josef, Starý, Piller, and Pinkava.

Zieboltz, Herbert, and P. Glass, assignors to Askania Regulator Company, Chicago, Ill. Stabilized control system. 2,594,604, Apr. 29.

Zief, Morris: *See*—
Fisher, Charles H., Zief, and Hockett.

Zimmerman Packing Company, assignee: *See*—
Zimmerman, Ralph C.

Zimmerman, Ralph C., assignor to Zimmerman Packing Company, Norwood, Ohio. Merchandise package. 2,595,043, Apr. 29.

Zmatlík, Josef, Brunn, M. Starý, Zilina, B. Piller, Varnsdorf, and J. Pinkava, Prague, assignors to Elite, Sdruzene tovarny puncoch, narodni podnik, Varnsdorf, and Zavody pre Chemicku Vyrobu, narodny podnik, Bratislava, Czechoslovakia. Device for drawing off artificial fibers from the spinneret, especially fibers spun from the molten mass. 2,595,044, Apr. 29.

Zoppelt, Samuel, Berea, assignor to Rop-Loc Products Co., Cleveland, Ohio. Adjustable supporting bar. 2,594,605, Apr. 29.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Baby carriage and stroller, Convertible. W. L. Raucher. Re. 23,488, Apr. 29.

Cavity resonator electron discharge device. W. C. Brown. Re. 23,480, Apr. 29.

Cheese, Making. C. Toone. Re. 23,489, Apr. 29.

Combination light distributor and wiring conduit for elongated tubular lamps. M. H. Kruger. Re. 23,485, Apr. 29.

Culinary mixes, Making. O. Johnson. Re. 23,484, Apr. 29.

Meat product and treating meat. H. M. Condon. Re. 23,482, Apr. 29.

Producing valved or sleeved bags, Method of and apparatus for. H. E. Lee. Re. 23,486, Apr. 29.

Valve for liquefied hydrocarbon containers, Fill and discharge. W. E. McCabe, Jr. Re. 23,487, Apr. 29.

Washing machine. G. C. Graham. Re. 23,483, Apr. 29.

Washing machine with centrifugal extractor and stabilizer therefor. G. P. Castner and A. D. Lund. Re. 23,481, Apr. 29.

LIST OF PLANT INVENTIONS

Double pink lilac plant. E. J. Gardner. 1,086, Apr. 29.

Rose plant. J. A. Armstrong. 1,087–8, Apr. 29.

Rose plant. F. L. Caluya. 1,089–90, Apr. 29.

LIST OF DESIGN INVENTIONS

Acoustical unit. T. Prisland. 166,636, Apr. 29.

Alphabet for signs. E. Brozen. 166,589, Apr. 29.

Badge or the like. A. Gonzales. 166,602, Apr. 29.

Bottle, Decanter. E. Du Pree. 166,595, Apr. 29.

Bowl, Sugar. C. O. Bliss. 166,586, Apr. 29.

Bracelet or the like. A. Kats. 166,608, Apr. 29.

Bracelet or the like. A. Philippe. 166,621, Apr. 29.

Bracelet or the like. A. Philippe. 166,629, Apr. 29.

Brooch or similar article. A. M. Pond. 166,633, Apr. 29.

Brooch or the like. A. Katz. 166,606, Apr. 29.

Brooch or the like. A. Philippe. 166,622–8, Apr. 29.

Brooch or the like. A. Philippe. 166,631–2, Apr. 29.

Chair, Lounge. J. D. Bell. 166,585, Apr. 29.

Chaise longue. D. G. Wogomon and H. Pederson. 166,655, Apr. 29.

Clockcase. L. I. Bruce. 166,590, Apr. 29.

Cutter, Weed. J. D. Casey. 166,591, Apr. 29.

Doll. K. L. Powell. 166,634, Apr. 29.

Doll, Shell. S. Goldfarb. 166,601, Apr. 29.

Double swivel fitting. D. C. Warren. 166,651, Apr. 29.

Earring or the like. A. Philippe. 166,630, Apr. 29.

Elbow fitting for a swing joint. D. C. Warren. 166,653, Apr. 29.

Elbow type fitting. D. C. Warren. 166,650, Apr. 29.

Fabric, Embossed textile. H. Wagner. 166,648–9, Apr. 29.

Fabric, Pile. J. G. Todd. 166,642, Apr. 29.

Fabric, Textile. H. A. Portong. 166,635, Apr. 29.

Hanger, Garment. A. Kerby. 166,610, Apr. 29.

Head and back rest, Portable. C. Fleisig. 166,599, Apr. 29.

Holder, Urinal. E. G. Mally. 166,616, Apr. 29.

Jewelry link for a necklace or similar article. M. Chernow. 166,592, Apr. 29.

Kite. F. M. Robey. 166,637, Apr. 29.

Lamp, Table. J. F. Livers. 166,613–14, Apr. 29.

Magnifier, Illuminating. R. S. Filsinger. 166,597, Apr. 29.

Matchbox. F. L. Sinks. 166,640, Apr. 29.

Necklace or the like. A. Katz. 166,607, Apr. 29.

Paperweight, Signpost. M. I. Klein and D. B. Nystrom. 166,611, Apr. 29.

Pin clip or the like. A. Kats. 166,609, Apr. 29.

Pitcher, Cream. C. O. Bliss. 166,587, Apr. 29.

Plate and attaching clamp, Combined. D. W. Fry. 166,600, Apr. 29.

Post mitt for chairs and other furniture. J. B. Mince. 166,618, Apr. 29.

Rack, Portable outdoor clothes. D. S. Loughlin. 166,615, Apr. 29.

Sheet of stationery or the like. E. J. Jones. 166,604, Apr. 29.

Shirt and collar protector, Combined. H. A. Tomarin. 166,643–4, Apr. 29.

Sign, Advertising. W. G. Terry. 166,641, Apr. 29.

Slicing and storing device, Combined. C. W. Paul. 166,619, Apr. 29.

Stocking. M. Fisher and F. L. Ireland. 166,598, Apr. 29.

Stocking. G. W. Senior. 166,638–9, Apr. 29.

Suction cleaner or similar article. P. W. Cherry. 166,593–4, Apr. 29.

Support and draft apparatus for a side delivery rake. J. Enos, Jr. 166,596, Apr. 29.

Swing joint. D. C. Warren. 166,652, Apr. 29.

Typewriter case or the like. A. C. Weiss. 166,654, Apr. 29.

Table, Dressing. I. Lazarus. 166,612, Apr. 29.

Table, Extension. J. Petrone. 166,620, Apr. 29.

Tank unit, Gas storage. J. P. Beaird. 166,584, Apr. 29.

Teapot or similar article. S. H. Hartman. 166,603, Apr. 29.

Toilet paper roll cover. H. D. McLellan and S. M. Boss. 166,617, Apr. 29.

Tray, Foldable food. R. B. Karoff. 166,605, Apr. 29.

Vamp for a shoe or similar article. W. Usdin. 166,645–7, Apr. 29.

Windshield cleaner and coin receptacle, Combined. D. Brody and S. Coleman. 166,588, Apr. 29.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF APRIL, 1952

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accessory for use with telephones. S. C. Chesick. 2,595,054, Apr. 29.
Accessory side slope blade for bulldozers. O. A. Burggren. 2,594,727, Apr. 29.
Acoustic material which thermodynamically absorbs sound. L. L. Beranek. 2,595,047, Apr. 29.
Acrylonitrile protein derivatives. J. C. Cowan, C. D. Evans, and L. L. McKinney. 2,594,293, Apr. 29.
Activated carbon from distillers mash, Production of. P. J. Elving, E. Shoemaker, B. L. Kabacoff, and I. Nagelburg. 2,594,544, Apr. 29.
Adapter for photographic flashlight bulbs, Light socket. A. Mastrangelo. 2,595,155, Apr. 29.
Addition of monobasic organic acids to the esters of monohydric alkynols. R. S. Towne. 2,594,827, Apr. 29.
Adhesive collar stay package. W. R. Story. 2,595,112, Apr. 29.
Adjustable coil spring center support. E. E. Woller. 2,595,039, Apr. 29.
Adjustable definite position clutch operator. R. M. Ford and D. P. Crane. 2,594,898, Apr. 29.
Adjustable door support. M. Carlson. 2,595,187, Apr. 29.
Adjustable handle bar. J. Konsel. 2,594,451, Apr. 29.
Adjustable resiliency bedspring. V. H. Gottschalk. 2,595,072, Apr. 29.
Adjustable seat support. J. P. De Rose. 2,594,882, Apr. 29.
Adjustable supporting bar. S. Zoppelt. 2,594,605, Apr. 29.
Adjustable throw eccentric. A. G. Wunderlich and J. Bonato. 2,594,836, Apr. 29.
Adsorption process and apparatus therefor. C. H. O. Berg. 2,594,615, Apr. 29.
Aerial cable with external radio signal reflection correction. F. Bloch. 2,594,854, Apr. 29.
Air cleaner. W. G. Rommel. 2,594,805, Apr. 29.
Air compressor accessory for vehicles. J. Poglay. 2,595,098, Apr. 29.
Air-conditioning apparatus. R. G. Miner and A. O. Anderson. 2,594,477, Apr. 29.
Air intake device for water pumps. R. W. Muerle. 2,594,793, Apr. 29.
Air scoop for automobiles. G. L. Ritch. 2,594,682, Apr. 29.
Alarm system, Supervised. W. Hladky and E. Ciccone. 2,594,771, Apr. 29.
Alkane sulfonic acids, Preparation of. J. K. Fincke. 2,594,411, Apr. 29.
Alkylation of isoparaffins. H. Pines. 2,594,343, Apr. 29.
Alternating current rectifier. F. E. Smith. 2,594,594, Apr. 29.
Amplifier, Crystal. E. T. Caselitini. 2,595,052, Apr. 29.
Amplifier, Electronic light. L. de Forest. 2,594,740, Apr. 29.
Amplifier, Voice-operated constant-level. E. H. Ross. 2,594,807, Apr. 29.
Amplifying system. C. H. Young. 2,594,530, Apr. 29.
Amplifying system, High-frequency. R. P. Marié. 2,594,954, Apr. 29.
Amusement device, Magnetic racing. D. C. Parke and R. E. Sealer. 2,594,678, Apr. 29.
Angular piercing tool. N. B. Granberg. 2,594,552, Apr. 29.
Animal trap. V. C. Bloodgood. 2,594,855, Apr. 29.
Ankle joint for artificial legs. F. C. and R. P. Lucas. 2,594,945, Apr. 29.
Annunciator for elevators and the like. D. Coyne. 2,594,733, Apr. 29.
Annunciator for games. A. A. Bielicki. 2,595,048, Apr. 29.
Antenna. L. J. Chu and W. O. Smith. 2,594,871, Apr. 29.
Antenna, Directive. C. B. H. Feldman. 2,594,409, Apr. 29.
Antenna switching system. J. W. Marchetti. 2,594,328, Apr. 29.
Antibackflow valve. J. D. Robinson. 2,594,999, Apr. 29.
Antifriction bearing. F. R. Bonte. 2,595,121, Apr. 29.
Antiglare shade for windshields. G. A. Biessen. 2,594,386, Apr. 29.
Antihunting measuring and controlling apparatus. R. F. Wild. 2,595,034, Apr. 29.
Antimalarial agents and preparing them. G. H. Hitchings, P. B. Russell, and E. A. Falco. 2,594,309, Apr. 29.
Antipernicious anemia concentrate, Preparing an. F. R. Koniuszy, N. G. Brink, and K. Folkers. 2,594,314, Apr. 29.

Apparatus for applying designs to plastic sheetlike materials. M. A. Chavannes. 2,594,290, Apr. 29.
Apparatus for blending fiber. L. A. Runton. 2,594,590, Apr. 29.
Apparatus for carburizing steel. F. T. Cope. 2,594,876, Apr. 29.
Apparatus for cleaning and lubricating. C. A. Huffman. 2,594,779, Apr. 29.
Apparatus for color television. Y. Angel. 2,594,715, Apr. 29.
Apparatus for cutting and sizing cellular glass slabs. O. W. Wiley. 2,595,115, Apr. 29.
Apparatus for displaying magnetically stored data. J. J. Connolly. 2,594,731, Apr. 29.
Apparatus for double flaring tubes. G. W. Wolcott. 2,595,036, Apr. 29.
Apparatus for handling hot metal rods. J. W. Sheperdson. 2,595,006, Apr. 29.
Apparatus for manufacturing valve bags. D. Belcher, R. J. Williams, and J. E. Voege. 2,594,849, Apr. 29.
Apparatus for manufacturing whipped cream. N. J. Pfeiffer and F. F. Suellentrop. 2,594,492, Apr. 29.
Apparatus for palletizing. L. K. Fehrenbach. 2,594,894, Apr. 29.
Apparatus for production of music. B. F. Miessner. 2,594,967, Apr. 29.
Apparatus for scribing. F. E. Kunzler. 2,594,457, Apr. 29.
Apparatus for securing dry steam. W. S. Patterson. 2,594,490, Apr. 29.
Apparatus for steering aircraft. R. H. Goddard. 2,594,766, Apr. 29.
Apparatus for the manufacture of phonographic disks. A. B. St. Hilaire. 2,594,364, Apr. 29.
Apparatus for the multiple coiling of slit metal strips. N. J. Ranney. 2,594,800, Apr. 29.
Apparatus for the solution of linear simultaneous equations. J. Zauderer and B. J. Aleck. 2,595,185, Apr. 29.
Apparatus for treating liquid dairy products. F. G. Cornell, Jr. 2,594,399, Apr. 29.
Applicator for dye and the like. F. E. Beebe. 2,594,721, Apr. 29.
Aquarium, Ornamental. F. Y. Kuriyama. 2,595,085, Apr. 29.
Arc welding electrode. C. J. Gallagher. 2,594,905, Apr. 29.
Arm sling. I. Sanders. 2,594,809, Apr. 29.
Armor shield for projectile type fastenings. R. K. Baisch. 2,594,275, Apr. 29.
Article adapted for use as transport sled, as slip container to be dropped from air craft, and as stove respectively. O. M. Magnussen. 2,594,781, Apr. 29.
Article diverter. H. C. Noe. 2,594,338, Apr. 29.
Artificial fibers or threads from viscose, Making. G. A. Richter, Jr. 2,594,496, Apr. 29.
Artificial lure. C. E. Erickson. 2,595,191, Apr. 29.
Artificial snow, Producing. H. E. Britt. 2,594,725, Apr. 29.
Artistic design using wicking wet with a metallic salt solution that forms a color on exposure to light, Production of. L. Jackson. 2,595,080, Apr. 29.
Ash receiver, Cigarette. G. P. Schmaling, Sr. 2,595,103, Apr. 29.
Aspirating two-way control valve. B. N. McDonald. 2,594,962, Apr. 29.
Attitude indicating unit. G. C. Draper. 2,594,406, Apr. 29.
Automatic control for machines. F. S. Flick. 2,594,548, Apr. 29.
Automatic gain control circuits. H. D. Gulnac. 2,594,916, Apr. 29.
Automatic index device for wringers. W. L. Kauffman. 2,595,147, Apr. 29.
Automatic pay station. R. F. Broussard. 2,594,388, Apr. 29.
Automatic self-locking indexing head. A. M. Tripp. 2,594,828, Apr. 29.
Automatic speed-signaling and speed-controlling system for automobiles and other vehicles. H. S. Davis. 2,594,739, Apr. 29.
Automobile luggage carrier. J. M. Law. 2,594,319, Apr. 29.
Automobile theft alarm. D. H. Novak. 2,594,676, Apr. 29.
Automobile window sunvisor shade. E. G. Seibert. 2,594,813, Apr. 29.
Awning, Canopy. J. B. Niles. 2,595,094, Apr. 29.
Awning, Sectional. C. Hawla. 2,594,922, Apr. 29.

Axial impact type tang break-off tool. J. O. Forster. 2,594,901, Apr. 29.
Baby crib, Portable. K. H. Opie. 2,594,677, Apr. 29.
Bag: *See*—
Garment bag. Sleeping bag.
Bait for rodent traps. J. F. Sullivan. 2,595,019, Apr. 29.
Balance testing machine rotor mounting. C. H. Phelps. 2,594,581, Apr. 29.
Bar: *See*—
Adjustable handle bar. Adjustable supporting bar.
Barge, Cargo. E. B. Hudson. 2,594,930, Apr. 29.
Barrier nonreflectant to incident electromagnetic waves. E. B. Moullin. 2,594,971, Apr. 29.
Battery, Deferred-action. J. N. Davis. 2,594,879, Apr. 29.
Bearing: *See*—
Antifriction bearing. Tapered roller bearing.
Bearing. J. A. Riordan. 2,594,587, Apr. 29.
Bed fence. R. T. Hoffman. 2,594,926, Apr. 29.
Beta-diethylaminoethyl 3-phenyl-2-hydroxybenzoate mandelate. M. Sahyun. 2,594,350, Apr. 29.
β-naphthyl-(2)-β-alkyl-2, α-dialkylpropionic acids and esters thereof. K. Miescher and P. Wieland. 2,595,200, Apr. 29.
Bicycle kick stand. E. Haug. 2,595,193, Apr. 29.
Bill case. L. Seamon. 2,595,003, Apr. 29.
Bis-β-aromatic sulfonhydrazides. J. A. Sprung and W. A. Schmidt. 2,595,017, Apr. 29.
Bis (p-chlorophenylmercapto) methane and insecticidal compositions thereof. D. T. Mowry. 2,594,480, Apr. 29.
Bis[2-diethanolamino-4-p-anisidino-1, 3, 5-triazyl-(6)-]-4, 4'-diaminostilbene-2, 2'-disulfonic acid. W. E. Wallace. 2,595,030, Apr. 29.
Blade holder. D. N. Judelson. 2,594,932, Apr. 29.
Blending fiber, Method and apparatus for. L. A. Runton. 2,594,589, Apr. 29.
Board: *See*—
Cribbage board. Diving board.
Bobbin casing retaining means. E. Urscheler. 2,594,523, Apr. 29.
Boiler with safety lid, Milk. N. J. Caserta. 2,594,868, Apr. 29.
Boiling-point apparatus. F. B. Rolfson. 2,594,683, Apr. 29.
Boring bar holder. C. B. Amstuts. 2,594,532, Apr. 29.
Bottle carrier. E. L. Arneson. 2,594,376–7, Apr. 29.
Box: *See*—
Fire alarm signal station Pressed metal meter box.
box.
Box construction. W. Evans. 2,594,628, Apr. 29.
Boxing head guard. S. F. Moore. 2,594,478, Apr. 29.
Brace for lady's garment. A. Licht. 2,595,088, Apr. 29.
Bracket: *See*—
Cornice mounting bracket. Cornice support bracket.
Brake. B. E. House. 2,595,143, Apr. 29.
Braking mechanism for lap winding apparatus. R. J. Higginbotham. 2,594,925, Apr. 29.
Brassière. I. Flores and J. Kellard. 2,594,549, Apr. 29.
Breaking petroleum emulsions. M. De Groote and B. Keiser. 2,594,541–2, Apr. 29.
Broken pipe extractor. W. R. Sill. 2,595,008, Apr. 29.
Brush, Bristle gigging. H. C. Dunn. 2,594,886, Apr. 29.
Bucket, Clam-shell. E. T. Freyer. 2,594,763, Apr. 29.
Buffing wheel. L. M. Seelenfreund. 2,594,812, Apr. 29.
Building block and wall, Hollow interlocked. N. T. Baldanza. 2,594,378, Apr. 29.
Burner: *See*—
Forced draft gas burner. Gas burner.
Burner. J. F. Grosskloss. 2,594,914, Apr. 29.
Butadiene methyl-o-chlorocinnamate copolymer. G. H. Swart. 2,594,824, Apr. 29.
Butter warming receptacle. B. H. Simpson. 2,595,010, Apr. 29.
Cabinet: *See*—
Shower bath cabinet.
Cabinet for rolled sheet materials, Dispensing. R. R. Cardall. 2,594,391, Apr. 29.
Cabinet for sound reproducing equipment. M. W. Kenney. 2,594,565, Apr. 29.
Calculating machine. J. R. Desch and R. E. Mumma. 2,595,045, Apr. 29.
Calculator device. E. G. Kesling. 2,594,566, Apr. 29.
Calculator, Forecasting. G. V. Malmgren. 2,595,153, Apr. 29.
Calling line identification and registering system. F. J. Scudder and E. Vroom. 2,594,505, Apr. 29.
Cam mechanism. R. W. Goff. 2,594,911, Apr. 29.
Can: *See*—
Oil can.
Carburetor. A. C. Pothier. 2,594,344, Apr. 29.
Carrier: *See*—
Automobile luggage carrier. Fishhook leader carrier.
Bottle carrier. Water bag carrier.
Carrier for bottles and the like, Two-piece portable. N. Geertsen. 2,594,304, Apr. 29.
Carrier for conveyer systems, Adjustable. M. R. Weingarten. 2,595,182, Apr. 29.
Carton. R. C. Casselman and D. R. Dominie. 2,594,394, Apr. 29.
Carton filling and weighing machine. F. M. Willbrandt. 2,595,035, Apr. 29.
Carton for holding eggs. L. W. Schmirler. 2,594,504, Apr. 29.
Case: *See*—
Bill case.
Cash drawer or till tray. J. L. Jertson. 2,594,653, Apr. 29.
Casket corner construction. B. F. Paul. 2,594,580, Apr. 29.
Casket floral rack. W. T. Bell. 2,594,722, Apr. 29.
Catalytic reduction of carbon monoxide with hydrogen. D. B. Eastman and L. P. Gaucher. 2,594,301, Apr. 29.
Cathode structure for electron discharge tubes. L. M. Field. 2,594,897, Apr. 29.
Cement bonded natural cellulose aggregate impregnated with cured synthetic resin and making the same. J. F. Beaudet. 2,594,280, Apr. 29.
Centering and amplitude control apparatus for cathode-ray beams. G. C. Sziklai. 2,594,517, Apr. 29.
Centralizer and attaching. F. M. Gist. 2,594,551, Apr. 29.
Centrifugal machine and process. F. W. Keith, Jr. 2,594,445, Apr. 29.
Chain: *See*—
Cribber chain.
Chair convertible into a table and vice versa. R. S. Vella. 2,595,179, Apr. 29.
Check valve. L. F. Griffith and D. K. McIlvaine. 2,594,641, Apr. 29.
Chicken drinking fountain. J. D. Miller. 2,594,968, Apr. 29.
Chin rest for bow instruments. H. V. Hogne. 2,594,435, Apr. 29.
Cigarette maker. G. W. Du Laney. 2,594,747, Apr. 29.
Circuit: *See*—
Electrical counter circuit. Photomultiplier tube circuit.
Electrical driving circuit. Telegraph hub electronic
Electronic circuit. loop repeater circuit.
Ground detector circuit.
Circuit controlling device. G. O. Puerner. 2,594,493, Apr. 29.
Circuit for controlling fare registering machines, Electric. A. M. Gordon. 2,594,423, Apr. 29.
Circuit for incandescent lamps, Electric. M. R. Douglass. 2,594,622, Apr. 29.
Circuit for measuring high-resistance leaks, Electronic voltmeter test. W. E. Niederau, D. Ritchie, Jr., and P. L. Wright. 2,595,163, Apr. 29.
Circuit for telephone switching equipment, Signal control. K. L. Burgener. 2,594,726, Apr. 29.
Circuit organization adapted to receive or amplify electric oscillations. K. Nowak. 2,594,485, Apr. 29.
Circuits for carrier wave communication systems and the like, Supervisory signaling. E. H. B. Bartelink and E. Daskam, Jr. 2,594,718, Apr. 29.
Clamp: *See*—
Parallel screw machinist's clamp.
Cleaner: *See*—
Air cleaner. Vacuum cleaner.
Suction cleaner.
Clock, Fountain. G. A. Crockett. 2,594,877, Apr. 29.
Clock mechanism and parts for the assembly thereof. J. Mayer. 2,595,157, Apr. 29.
Closure device for containers. J. Ruets. 2,595,000, Apr. 29.
Clothes hanger. J. R. McKinney. 2,594,966, Apr. 29.
Clothesline support. G. C. Curts. 2,594,736, Apr. 29.
Clutch and brake for a servo mechanism. F. E. Edwards, Jr. 2,595,190, Apr. 29.
Clutch and brake servo mechanism, Electromagnetic. R. J. Herst and S. H. Petry. 2,594,775, Apr. 29.
Clutch assembly for drawworks. S. W. Long. 2,594,666, Apr. 29.
Code marking device for labels. E. E. Pohl. 2,594,679, Apr. 29.
Coded track circuit signaling system with improved feedback code circuits. A. L. Jerome. 2,594,652, Apr. 29.
Coil pickup, Multiple. C. W. and R. W. McKee. 2,594,332, Apr. 29.
Coin dispenser. J. S. Gassaway. 2,594,907, Apr. 29.
Coin switch. J. J. Toolan and A. E. Reiman. 2,594,826, Apr. 29.
Collapsible garment hanger. T. L. Varker. 2,595,026, Apr. 29.
Collapsible line support. O. P. Wicks. 2,595,183, Apr. 29.
Color television. V. D. Landon. 2,594,567, Apr. 29.
Comb, K. E. and J. I. Boissoneau. 2,595,049, Apr. 29.
Combination pie pan and juice retainer ring. M. P. Deming. 2,595,059, Apr. 29.
Combine hitch. H. W. Frantz and K. M. Engebretson. 2,594,632, Apr. 29.
Combustible gas for use in internal-combustion engines, Making. D. E. Mackenzie and G. H. Wolfe. 2,594,468, Apr. 29.
Comminutor. H. J. Meeker. 2,594,785, Apr. 29.
Compact. L. F. Anderson. 2,594,607, Apr. 29.
Compacting pulverised materials and product resulting therefrom. D. E. Marshall. 2,594,956, Apr. 29.
Comparison type densitometer. M. H. Sweet. 2,594,514, Apr. 29.
Composition consisting of polyvinyl alcohol and trimethylene glycol. A. M. Rohn. 2,594,498, Apr. 29.
Concentrating hydrogen fluoride. O. M. Hanson and C. B. Linn. 2,594,554, Apr. 29.

Condenser: *See*—
Variable condenser.
Confectionery products, Making. J. Brabaek. 2,594,538, Apr. 29.
Connector: *See*—
Plug connector.
Connector for fishing sinkers, Detachable and releasable. G. T. Braithwaite. 2,594,620, Apr. 29.
Constructing buildings. P. J. Callan. 2,595,123, Apr. 29.
Constructional unit for the control of the ailerons and elevator of airplanes. J. Šlechta. 2,595,593, Apr. 29.
Contact arc suppression. P. M. G. Toulon. 2,595,024, Apr. 29.
Contact mounting. A. P. Charbonneau and F. J. Russell. 2,594,396, Apr. 29.
Contact protection arrangement. W. B. Ellwood. 2,594,890, Apr. 29.
Container: *See*—
Sectional container. Shipping container.
Container. E. A. Pardee. 2,595,202, Apr. 29.
Container and applicator, Cleaning fluid. L. R. N. Carvalho. 2,594,729, Apr. 29.
Container prop, Iced food. L. Moschetto. 2,594,479, Apr. 29.
Continuous process for neutralizing and spray drying an organic sulfonic acid. W. H. Shiffer. 2,594,690, Apr. 29.
Continuous refining and simultaneous deodorizing raw fats and oils by distilling free aliphatic acids therefrom, Method and apparatus for. V. Mares. 2,594,953, Apr. 29.
Continuous soapmaking. L. A. Ledgett. 2,594,461, Apr. 29.
Control for machine tools. J. E. Makant, G. W. Smithson and K. R. Wunschel. 2,594,782, Apr. 29.
Control for stack supply and stack delivery for printing presses. R. F. Aberle. 2,594,705, Apr. 29.
Control mechanism. H. C. May and R. R. Stevens. 2,594,575, Apr. 29.
Control of multiengine aircraft. F. R. Elliott. 2,594,888, Apr. 29.
Control panel for accounting machines. J. M. Cunningham. 2,594,737, Apr. 29.
Control panel for accounting machines. H. D. Earl. 2,594,748, Apr. 29.
Control relay. R. G. Mawney. 2,594,670, Apr. 29.
Control surface for airplanes. L. C. Garby. 2,595,192, Apr. 29.
Control system. A. J. Hornfeck and H. T. Hoffman. 2,594,436, Apr. 29.
Convertible top mechanism. A. Rappl. 2,594,494, Apr. 29.
Conveyer for feeding and spreading loose fiber into sheet form. L. A. Runton. 2,594,591, Apr. 29.
Conveyer mechanism for printing presses. R. F. Aberle. 2,594,704, Apr. 29.
Conveyer, Reversible. W. W. Cushman. 2,594,295, Apr. 29.
Conveyer, Troughed belt. D. C. Pettyjohn. 2,594,342, Apr. 29.
Cooler and evaporator coil therefor, Liquid. L. J. Sahs. 2,594,502, Apr. 29.
Cooling unit. M. B. Lemeshka. 2,595,150, Apr. 29.
Cop winding machine. A. R. Wood. 2,595,040, Apr. 29.
Cord and tape clip for Venetian blinds. H. S. Rosenbaum. 2,594,806, Apr. 29.
Cornice mounting bracket. B. B. Junkunc. 2,594,656, Apr. 29.
Cornice support bracket. B. B. Junkunc. 2,594,655, Apr. 29.
Corrected data tracking system. J. H. Lancor, Jr., and J. E. Binns. 2,594,317, Apr. 29.
Corsage holder. B. Singer. 2,595,174, Apr. 29.
Corset. G. G. Wanish. 2,595,031, Apr. 29.
Counting machine. H. C. Noe. 2,594,337, Apr. 29.
Coupling: *See*—
Filter bag coupling. Valved coupling.
Coupling. W. A. Cotter. 2,595,057, Apr. 29.
Coupling for toy railway cars. H. L. Joyce. 2,594,444, Apr. 29.
Cover: *See*—
Roll-up type vehicle top cover.
Cover means for pit-mounted vehicle lifts. G. A. Estel, Jr. 2,594,892, Apr. 29.
Cover top for trailer bodies. G. W. Taylor. 2,594,597, Apr. 29.
Cribbage board. S. Logan. 2,594,943, Apr. 29.
Cribber chain. H. W. Protzeller. 2,594,990, Apr. 29.
Cribber chain excavating element. H. W. Protzeller. 2,594,991, Apr. 29.
Crop cutting and delivery unit for forage cutters. M. A. Richardson. 2,594,583, Apr. 29.
Crystallization of sorbitol. F. H. Buck, M. M. Luskin and M. T. Sanders. 2,594,863, Apr. 29.
Cup mouthpiece for musical instruments. J. W. Cauffman. 2,594,869, Apr. 29.
Curtain stretcher, Folding. K. J. Unwin. 2,594,368, Apr. 29.
Cushioning device, Mechanical. J. C. Lockwood. 2,594,665, Apr. 29.
Cutter: *See*—
Pipe cutter. Wire cutter.
Cutting machine, Automatic. O. Amiet. 2,594,708, Apr. 29.
Cutting tool. B. E. Middleton. 2,595,090, Apr. 29.
Cycle frame or the like. J. L. Henderson. 2,595,075, Apr. 29.
Cyclic fluoroalkylene oxide compounds. E. A. Kauck and J. H. Simons. 2,594,272, Apr. 29.
Dark field color filter with polarizing means for microscopes. K. A. Fischer. 2,594,758, Apr. 29.
Delaying coagulation of rubber latex. R. E. Boyd, G. H. McFadden and B. Bennet. 2,594,859, Apr. 29.
Dental matrix band, Gingival-aperture. B. F. Toffemire. 2,594,367, Apr. 29.
Detergent composition. E. W. Gluesenkamp. 2,594,421, Apr. 29.
Detergent compositions. J. C. Harris and M. Kosmin. 2,594,431, Apr. 29.
Detergent compositions. M. Kosmin and J. C. Harris. 2,594,453, Apr. 29.
Device for automatically stripping cut-out box blanks from offal or waste. H. A. Ringel. 2,594,804, Apr. 29.
Device for automatically tracking heavenly bodies. J. E. Sees. 2,595,205, Apr. 29.
Device for drawing off artificial fibers from the spinneret, especially fibers spun from the molten mass. J. Zmatlík, M. Starý, B. Piller and J. Pinkava. 2,595,044, Apr. 29.
Device for evaluating horses. A. E. Strudwick. 2,594,696, Apr. 29.
Device for handling mowers. J. Grenda. 2,594,426, Apr. 29.
Device for mounting and stretching pelts. J. W. Frazier. 2,594,902, Apr. 29.
Device for viewing slides. S. Brumberger. 2,594,390, Apr. 29.
Dialkyl phosphoryl monoethyl hydrocarbon phosphonate, Making a. G. M. Kosolapoff. 2,594,455, Apr. 29.
Dielectric heating system, High-frequency. H. C. Gillespie. 2,594,420, Apr. 29.
Dielectric wave guide. H. Iams. 2,595,078, Apr. 29.
Differential protective relaying system. R. I. Ward. 2,594,371, Apr. 29.
Dihalogeno propenyl aryl ethers. E. C. Ladd and M. P. Harvey. 2,594,935, Apr. 29.
Di-salicylate of 7-chloro-4-(4′-diethylamino-1′-methylbutylamino)quinoline. C. F. Geschickter and M. I. Rubin. 2,594,419, Apr. 29.
Dispenser: *See*—
Coin dispenser. Insecticide dispenser.
Draftsman's ink dispenser.
Dispenser for light-sensitized sheets. C. F. Galloway. 2,594,634, Apr. 29.
Dispensing machine, Pressure-sensitive tape. A. L. Dixon, H. W. Gore and J. W. Rice. 2,595,060, Apr. 29.
Display binder. E. W. Ericson. 2,595,064, Apr. 29.
Display device. H. and S. Freedman. 2,594,903, Apr. 29.
Display stand. K. A. Schneider. 2,595,002, Apr. 29.
Distillation of tar, Continuous. A. Schmalenbach. 2,594,352, Apr. 29.
Diving board. R. G. Larson, Jr. 2,594,459, Apr. 29.
Doffer comb mechanism. G. P. Robinson, Jr. 2,594,497, Apr. 29.
Door: *See*—
Garage door. Load retaining door.
Double-lockout interconnecting system. E. Bruce. 2,594,389, Apr. 29.
Draftsman's ink dispenser. F. I. Goodenow and J. F. Goodenow, Jr. 2,594,638, Apr. 29.
Drawer fixture. G. E. Lundberg. 2,594,571, Apr. 29.
Drill: *See*—
Glass drill. Rock drill.
Drill collar, Laminated. E. G. Boice. 2,594,617, Apr. 29.
Drilling procedure and apparatus. B. W. Sewell. 2,595,107, Apr. 29.
Drilling rig substructure. W. F. Bates, J. N. Gregory and C. S. Penfield. 2,594,847, Apr. 29.
Drilling sub for sidewall samplers. W. A. Stokesbary. 2,595,018, Apr. 29.
Drinking glass coaster and straw guide, Combined. H. Feldman. 2,294,896, Apr. 29.
Drip-catching spoon rack. E. E. McCoy. 2,594,473, Apr. 29.
Drip pan and gas burner structure, Combined. R. Shelton and J. S. Rowden. 2,595,005, Apr. 29.
Dyeing cellulosic fibers with difficultly water-soluble copper compounds of dyestuffs using a copper-free dyestuff, an aliphatic amine, and a complex copper compound of an aliphatic hydroxycarboxylic acid. H. Riat, W. Anderau, J. Wegmann, H. Mayer, and K. Mensi. 2,594,803, Apr. 29.
Dynamoelectric apparatus. R. L. Jaeschke. 2,594,931, Apr. 29.
Electric accumulator. H. G. André. 2,594,713, Apr. 29.
Electric control apparatus. G. H. Pohm. 2,595,099, Apr. 29.
Electric furnace. G. T. Muehlenkamp. 2,594,972, Apr. 29.

Electric heater. P. Lovfald. 2,594,465, Apr. 29.
Electrical apparatus. A. Alford. 2,594,839.
Electrical capacitor containing a stabilizer. F. M. Clark. 2,594,873, Apr. 29.
Electrical counter circuit. M. E. Mohr. 2,594,336, Apr. 29.
Electrical driving circuit. J. W. Gray. 2,594,912, Apr. 29.
Electrical precipitation. H. L. Richardson. 2,595,204, Apr. 29.
Electrical remote control for gas burners. R. J. Schaefer. 2,595,171, Apr. 29.
Electrode for chromium plating. L. G. De Quasie and R. F. Eisenberg. 2,594,881, Apr. 29.
Electrodepositing hard nickel plate. B. B. Knapp and D. S. Carr. 2,594,933, Apr. 29.
Electromechanical transducer unit. T. E. Lynch. 2,594,948, Apr. 29.
Electromechanical trigonometric converter. H. G. Earls and W. B. Watson. 2,594,887, Apr. 29.
Electronic animated advertising sign system. R. H. Senman. 2,594,357, Apr. 29.
Electronic circuit. J. L. Barker and B. J. Midlock. 2,594,276, Apr. 29.
Electronic control for filament wrapping machines. A. M. Dexter, Jr. 2,594,741, Apr. 29.
Engine: *See*—
Internal-combustion engine. Two-stroke cycle internal-combustion engine.
Engine with air filter, Air-colled internal-combustion. K. Sonderegger. 2,595,175, Apr. 29.
Erasing head for magnetic record members. O. Kornei. 2,594,934, Apr. 29.
Estrone, Manufacture of. M. Rubin, E. B. Hershberg, and E. Schwenk. 2,594,349, Apr. 29.
Excavator, Pier hole. A. H. Beck, Jr. 2,594,720, Apr. 29.
Explosive composition. J. E. Riley. 2,594,996, Apr. 29.
Explosive dump shell. P. F. Lewis. 2,594,780, Apr. 29.
Extractor: *See*—
Broken pipe extractor.
Eyeglass frame construction, Two-piece. C. Castelli. 2,594,395, Apr. 29.
Fabric: *See*—
Knitted fabric.
Fabric material provided with paraffin coating. K. A. Fischer. 2,594,647, Apr. 29.
Fare register having photoelectric fare sensing mechanism. A. M. Gordon. 2,594,422, Apr. 29.
Fastener: *See*—
Paper fastener. Separable fastener.
Fastener. J. B. O'Connor. 2,595,095, Apr. 29.
Feed and rammer arrangement at automatic firearms. V. Hammar and G. Dahlbäck. 2,594,770, Apr. 29.
Feeder: *See*—
Pin feeder. Self-clearing star feeder.
Fender guard. A. M. Persons. 2,594,491, Apr. 29.
Fery-prism monochromator. W. C. Miller. 2,594,334, Apr. 29.
Field microscope, Polarizing and optically staining dark. K. A. Fischer. 2,594,756, Apr. 29.
Filing and joining gauge for saw chains. A. F. Stone, E. A. Hayden, and H. W. Parker. 2,594,821, Apr. 29.
Filter: *See*—
Multiple unit self-cleaning dust filter.
Filter attachment for suction cleaners. N. W. La Briere. 2,594,458, Apr. 29.
Filter bag coupling. G. A. Brace. 2,594,285, Apr. 29.
Filter construction. G. C. Hupperts. 2,594,650, Apr. 29.
Filter press plate. H. A. Teale. 2,594,518, Apr. 29.
Filter underdrain. J. P. Lawlor. 2,594,568, Apr. 29.
Fire alarm signal station box. L. L. Verkuil and J. E. Russo. 2,594,369, Apr. 29.
Fire extinguishing foam stabilizer. J. M. Perri. 2,594,985, Apr. 29.
Fire or temperature rise detecting appliance. D. A. Hansard. 2,594,921, Apr. 29.
Firing mechanism for automatic firearms with nonaxial rectilinear breechblock motion. C. E. Simpson. 2,594,359, Apr. 29.
Fish impaling pin. K. T. Lehmann. 2,594,661, Apr. 29.
Fishhook leader carrier. B. M. McClain. 2,594,472, Apr. 29.
Fishing device. W. R. H. Breuer. 2,594,387, Apr. 29.
Fishing lure. M. L. Nichols. 2,594,673, Apr. 29.
Fishing lure. I. G. Roth. 2,595,168, Apr. 29.
Fishing rod. R. H. Beyer. 2,594,536, Apr. 29.
Flame retarding composition. E. A. Lauring. 2,594,937, Apr. 29.
Flange rolling mill. C. E. Stenson and A. W. Kelly. 2,594,819, Apr. 29.
Flat screen for pulp screening. B. and E. Cowan. 2,594,400, Apr. 29.
Flavoring materials and preparing the same. W. E. Barch. 2,594,379, Apr. 29.
Flooring strip finishing machine. I. F. Dittmar. 2,594,746, Apr. 29.
Flowmeter. C. Mannal. 2,594,668, Apr. 29.
Flowmeter, Thermal. E. T. Booth, Jr. 2,594,618, Apr. 29.
Fluid distribution system. R. R. Freund and W. H. Creel. 2,594,762, Apr. 29.
Fluid motor. V. E. Anderson. 2,595,119, Apr. 29.
Fluid motor. F. A. Bluhm. 2,594,856, Apr. 29.
Fluid motor assembly. C. R. Button. 2,594,288, Apr. 29.
Fluid operated speed governor. J. G. Sharp and R. E. Ingham. 2,594,689, Apr. 29.
Fluid pressure control apparatus. H. C. May and R. R. Stevens. 2,594,576, Apr. 29.
Fluid sampler for well bores. M. W. Kriegel. 2,595,084, Apr. 29.
Follow-up control. R. D. Owen. 2,595,165, Apr. 29.
Forced draft gas burner. J. H. Jackson. 2,594,562, Apr. 29.
Forming diaphragms. I. E. Coffey. 2,595,127, Apr. 29.
Forming electric accumulators. H. G. André. 2,594,714, Apr. 29.
Forming paper closure members for paper containers. W. E. Amberg. 2,595,046, Apr. 29.
Forming sensitive record track on cinematographic film. E. E. Griffith and L. E. Clark. 2,595,136, Apr. 29.
Formylating tetrahydro pteroic acid and amine acid amides thereof. M. J. Fahrenbach. 2,594,271, Apr. 29.
4-nitro-2,6-di(trifluoromethyl)-benzene-azo-N-fluoroalkyl-N-hydroxyalkylaniline dye compounds. J. B. Dickey. 2,594,297, Apr. 29.
4-quinasoline sulfenamides. A. J. Beber. 2,594,381, Apr. 29.
Fowl identification marker. H. W. Dryden. 2,594,623, Apr. 29.
Fowl scalding apparatus. F. C. Valenta. 2,594,829, Apr. 29.
Fractionating apparatus. J. A. Ridgway, Jr. 2,594,585, Apr. 29.
Frame: *See*—
Vacuum printing frame.
Frame for rotary ground pulverizers. Z. H. Moores. 2,595,091, Apr. 29.
Freezing machine. E. Wilbushewich. 2,594,529, Apr. 29.
Frequency divider. D. H. Campbell. 2,595,124, Apr. 29.
Friction shock absorber for railway car trucks. E. H. Lehman. 2,594,462, Apr. 29.
Fruit pitting and peeling apparatus. H. A. Skog. 2,594,362, Apr. 29.
Fuel burning apparatus. H. J. Kerr, J. Fletcher, L. Koolstra, and G. A. Watts. 2,594,312, Apr. 29.
Fuel-burning panel heater. W. G. Cartter. 2,594,608, Apr. 29.
Fuel feeding of engines arranged at the ends of the blades of a rotary wing. P. Morain. 2,594,788, Apr. 29.
Fuel line valve lock. L. M. Hopkins. 2,594,559, Apr. 29.
Fuel system for internal-combustion engines. C. G. Morley. 2,594,790, Apr. 29.
Fuming nitric acid, Producing. J. E. Rothrock. 2,594,588, Apr. 29.
Fungi and bacteria resistant papermakers' felts and preparing same. P. G. Benignus. 2,594,384, Apr. 29.
Furnace: *See*—
Electric furnace.
Furnace and lead electrode, Electric. G. T. Muehlenkamp. 2,594,973, Apr. 29.
Furnace brazing compositions. L. G. Klinker. 2,594,313, Apr. 29.
Fuse, Centrifugally armed. G. M. O'Rear. 2,594,340, Apr. 29.
Fuse, Current-limiting. F. J. Kozacka. 2,594,315, Apr. 29.
Game apparatus, Bingo. J. S. Hofsets. 2,594,434, Apr. 29.
Garage door. S. Siperek. 2,594,360, Apr. 29.
Garbage disposal unit, Portable. L. E. Gamaunt, Sr. 2,594,635, Apr. 29.
Garden tool. G. M. Timmins. 2,594,598, Apr. 29.
Garment bag. B. A. Levitt. 2,594,569, Apr. 29.
Garment hanger. A. P. Masciana. 2,594,958, Apr. 29.
Garment stay. W. M. Golden. 2,595,133, Apr. 29.
Gas alarm device. G. Mancini. 2,594,951, Apr. 29.
Gas arc torch. G. K. Medicus. 2,594,333, Apr. 29.
Gas burner. R. B. Plass and E. M. Bingham. 2,594,797, Apr. 29.
Gas generator. R. L. Mayhew. 2,594,329–30, Apr. 29.
Gate or the like. S. G. Buckland and G. E. Hopkins. 2,594,864, Apr. 29.
Gauge: *See*—
Pressure gauge.
Gauge stop for glass tables. O. M. Itaya. 2,595,079, Apr. 29.
Gearing of accessories for gas turbines. W. L. Gross and J. O. P. Hughes. 2,594,642, Apr. 29.
Generator: *See*—
Gas generator. Surge generator.
Generator regulator. R. J. Cassidy. 2,594,730, Apr. 29.
Glass drill. W. C. Palmer. 2,594,487, Apr. 29.
Glass run channel for vehicle windows. D. C. Bailey. 2,594,717, Apr. 29.
Golf ball marking machine. E. J. Russell and A. E. Wilde. 2,594,685, Apr. 29.
Golf hole simulating device. A. J. O'Malley. 2,594,982, Apr. 29.
Governor for helicopter rotor blades. H. L. Hosterman, Jr. 2,595,195, Apr. 29.
Governor mechanism. B. O. Burritt. 2,594,866, Apr. 29.
Granular clusters of crystalline matter, Producing. R. P. J. Berteaux. 2,594,723, Apr. 29.
Grapple hook means. L. H. and F. J. Gaulke. 2,594,908, Apr. 29.

Grease and grease base. W. C. Bryant and H. Frost, Jr. 2,594,286, Apr. 29.
Greases, Preparation of. F. H. Stross, S. T. Abrams, and R. J. Moore. 2,594,822, Apr. 29.
Gripping device. A. Duguay. 2,595,129, Apr. 29.
Ground detector circuit. T. A. Rich. 2,594,994, Apr. 29.
Group of nozzles for treating material. J. Dungler. 2,594,299, Apr. 29.
Guide for sawing machines having reciprocating carriages. G. V. Jackson. 2,594,651, Apr. 29.
Guide roller device for protective caps for the outlet openings of glass-melting furnaces. A. Wyss. 2,594,837, Apr. 29.
Hair remover with central feed of skin lotion. A. Masters. 2,594,959, Apr. 29.
Hall effect converter construction. B. D. Leete. 2,594,939, Apr. 29.
Hammer mechanism for use in straightening automobile bodies and fenders. E. Uberti. 2,595,207, Apr. 29.
Hammer pocket device. H. B. Behnke. 2,594,614, Apr. 29.
Hammer, Power-driven. S. Thompson. 2,594,522, Apr. 29.
Handle connection. C. L. Davis. 2,594,878, Apr. 29.
Hanger: *See*—
Clothes hanger. Garment hanger.
Collapsible garment hanger. Trouser hanger.
Hassock. H. H. Isaacson. 2,595,144, Apr. 29.
Hat anchor. D. Sigler and F. E. Walsky. 2,594,814, Apr. 29.
Hat, Paper. I. Gardner. 2,594,906, Apr. 29.
Head for magnetic recorders. C. F. E. Garreau. 2,594,414, Apr. 29.
Headlight for suction cleaners. J. E. Vance. 2,594,524, Apr. 29.
Heat exchange apparatus. L. J. Marshall. 2,594,471, Apr. 29.
Heat exchanger. A. H. Fletcher, F. H. Stark, R. W. Corbitt, and W. Sherlaw. 2,594,761, Apr. 29.
Heater: *See*—
Electric heater. Magazine type solid fuel burner heater.
Fuel-burning panel heater.
Heater. R. Sigerist. 2,594,507, Apr. 29.
Heating of coffee beans. R. O. Blench. 2,594,385, Apr. 29.
Heating system, Basement. L. L. Scott. 2,595,105, Apr. 29.
Heating unit, Fuel burning hot air. E. G. Wilson. 2,594,834, Apr. 29.
Hedge and shrubbery trimmer. J. H. Maylen. 2,594,961, Apr. 29.
Herbicidal compositions containing chlorinated aryl esters of aliphatic monocarboxylic acids. L. L. Baumgartner. 2,594,278, Apr. 29.
High-frequency dissipating load. S. B. Cohn and H. C. Early. 2,594,874, Apr. 29.
High-frequency short-circuiting arrangement. G. E. Feiker, Jr. 2,594,895, Apr. 29.
High purity tanning extracts, Production of. T. C. Cordon and L. J. Wickerham. 2,594,291, Apr. 29.
Hinged door and motor support for window coolers. E. Shapiro. 2,594,688, Apr. 29.
Hinged section power steered vehicle. N. C. Storey. 2,594,695, Apr. 29.
Hinged structure. W. C. Moeller. 2,594,335, Apr. 29.
Hitch. J. J. Ravers, Jr. 2,595,100, Apr. 29.
Hoist swivel. H. B. Madder. 2,594,950, Apr. 29.
Hoisting apparatus, Automotive vehicle. B. S. Aikman. 2,594,531, Apr. 29.
Holder: *See*—
Blade holder. Tackle holder.
Boring bar holder. Wallpaper holder.
Corsage holder. Work holder.
Nut holder.
Holder for pencils, Magnetic. A. A. Markowitz. 2,594,955, Apr. 29.
Hollow circular article and making same. F. H. Smith. 2,594,693, Apr. 29.
Hot-water heating device and method. B. H. Blondeau. 2,594,616, Apr. 29.
Hubcap lock. W. W. Earnest. 2,594,407, Apr. 29.
Humidifier. A. Gazda. 2,594,636, Apr. 29.
Hunter's blind. L. P. Feldpausch. 2,594,410, Apr. 29.
Hydroxylated aliphatic compounds including hydroxylated aliphatic carboxylic acids and lactones thereof, Production of. E. Schwenk and D. Papa. 2,594,355, Apr. 29.
Ice-cream manufacturing device and process. E. M. Irwin. 2,594,442, Apr. 29.
Identification means for stranded cables. E. C. Cripe. 2,594,610, Apr. 29.
Igniter for oil burners. H. L. Finley. 2,594,412, Apr. 29.
Illuminating a microscope dark field with light in contrasting colors. K. A. Fischer. 2,594,757, Apr. 29.
Incomplete key depression key latch mechanism. J. Hmelewsky. 2,594,772, Apr. 29.
Indicator: *See*—
Typewriter page end indicator.
Indicator. S. N. Van Voorhis. 2,594,870, Apr. 29.
Inertia type vibratory pickup. J. A. Flint. 2,595,067, Apr. 29.
Inherently processable interpolymers of vinyl chloride, a higher alkyl acrylate, and a mono-isoolefin. R. J. Wolf. 2,594,375, Apr. 29.
Ink transfer device. E. Garrahan. 2,595,070, Apr. 29.
Inoculum for use in the fermentative production of sodium gluconate, Preparation of. R. H. Blom, V. E. Sohns, and A. J. Moyer. 2,594,283, Apr. 29.
Insecticidal compositions comprising fluorinated chlorinated cyclic terpenes. G. A. Buntin and A. D. Lohr. 2,594,526, Apr. 29.
Insecticide dispenser. G. Brown. 2,594,539, Apr. 29.
Instrument, Blood obtaining. G. W. Derrick. 2,594,621, Apr. 29.
Instrument, Mechanical writing. H. W. Sams and J. S. Smith, Jr. 2,595,001, Apr. 29.
Instrument, Surgical. H. B. Larzelere. 2,595,086, Apr. 29.
Interlock between control members and register analyzing mechanism in typewriter-computers. O. J. Sundstrand. 2,595,020, Apr. 29.
Interlock mechanism for liquid dispensing apparatus. H. N. Bliss. 2,594,853, Apr. 29.
Interlocking switch and door. L. F. Santangelo. 2,595,102, Apr. 29.
Intermediate frequency rejection circuit. R. E. Ricketts. 2,594,347, Apr. 29.
Intermittent and proportionate pattern control mechanism for machine tools. E. R. Smith. 2,594,694, Apr. 29.
Intermittent film feeding mechanism utilizing scroll gears. O. H. Luther. 2,594,466, Apr. 29.
Internal-combustion engine. W. B. Bronander. 2,595,050, Apr. 29.
Internal-combustion engine. H. R. Ricardo and G. A. Holt. 2,594,681, Apr. 29.
Internal reverse taper reamer. H. McTyre and S. H. Aspden. 2,594,671, Apr. 29.
Interpolymers of selected poly-(2-alkenoxyalkyl) esters of fumaric acid and selected 2-alkenyl compounds. P. O. Tawney. 2,594,825, Apr. 29.
Invert sirup process. M. F. Hughes, M. A. McCalip, H. S. Paine, and N. Rosenberg. 2,594,440, Apr. 29.
Ion controller. W. W. Hicks. 2,594,777, Apr. 29.
Irrigation signal. G. V. Due. 2,594,885, Apr. 29.
Isolation of alpha-amylase from malt extract. S. Schwimmer and A. K. Balls. 2,594,356, Apr. 29.
Isomerization of alpha-beta unsaturated carboxylic acids. C. B. Linn. 2,594,570, Apr. 29.
Isomerization of unsaturated hydrocarbons. M. L. Allan. 2,594,706, Apr. 29.
Isopropanol odor improvement by azeotropic distillation. S. W. Wilson. 2,595,116, Apr. 29.
Jack: *See*—
Spring jack.
Jet-propelled device. H. K. Endicott. 2,594,627, Apr. 29.
Jet-reaction motor, including gas nozzle generating steam. H. A. A. Exner. 2,594,629, Apr. 29.
Jogged wave guide ring type radio-frequency rotary joint. L. D. Breetz. 2,595,186, Apr. 29.
Joint: *See*—
Jogged wave guide ring type radio-frequency rotary joint. Riveted joint.
Joint construction for artificial limbs. O. I. Fahlström. 2,594,752, Apr. 29.
Knitted fabric. A. N. Tingley. 2,594,521, Apr. 29.
Ladder of lightweight metals. J. Huck. 2,594,561, Apr. 29.
Lamp: *See*—
Sealed beam lamp.
Latch: *See*—
Spring latch.
Latching mechanism, Automatic. F. I. Steele. 2,594,511, Apr. 29.
Lawn edger. E. R. Sitton. 2,594,508, Apr. 29.
Layout device. R. C. Hickernell. 2,594,648, Apr. 29.
Leaky can reject mechanism for can testing machines. W. W. Maher. 2,594,327, Apr. 29.
Lift control. W. B. Sparks. 2,595,015, Apr. 29.
Lifter: *See*—
Trough lifter.
Lighter. C. A. Fortin. 2,594,631, Apr. 29.
Lighter, Cigar and cigarette. F. B. Wendel. 2,594,700, Apr. 29.
Lighter, Liquefied petroleum gas. P. W. Felt. 2,594,754–5, Apr. 29.
Linear detector. E. B. Hales. 2,594,769, Apr. 29.
Linearity control sweep circuits. A. C. Stocker. 2,594,513, Apr. 29.
Linoleum cement, Manufacture of. H. L. Powers and H. A. Reehling. 2,594,345, Apr. 29.
Liquid fertilizer applying apparatus. J. Blue. 2,594,284, Apr. 29.
Liquid pumping system. A. E. Steele. 2,594,512, Apr. 29.
Liquid reactor. K. T. Norell. 2,594,675, Apr. 29.
Load grip means for trucks and the like. L. G. Ehmann. 2,595,131, Apr. 29.
Load retaining door. J. H. Leslie, II. 2,595,087, Apr. 29.
Loading stop for electron tube making machines. C. W. Daley. 2,595,058, Apr. 29.
Lobeline aerosol dilating medicament. L. Dautrebande. 2,594,296, Apr. 29.

Lock: *See*—
Fuel line valve lock. Transverse sliding breech bolt lock.
Hubcap lock.
Slip lifter lock.
Lock for wringers, Drive and wringer rotation. W. L. Kauffman, II. 2,595,148, Apr. 29.
Locking hinge. C. C. Baker. 2,594,533, Apr. 29.
Low-temperature polymerization of ethylenic compounds using as initiators compositions comprising sodium azide and an oxidant. E. G. Howard, Jr. 2,594,560, Apr. 29.
Lubricants, Steam turbine. H. W. Rudel and J. I. Wasson. 2,595,169, Apr. 29.
Lubricating cock, Self-acting. L. Banides. 2,594,611, Apr. 29.
Lubricating composition. A. J. Morway and D. W. Young. 2,595,161, Apr. 29.
Lubricating composition. L. L. Neff. 2,594,795, Apr. 29.
Lubricating oil composition, Oxidation resistant. R. L. Heinrich. 2,595,140, Apr. 29.
Lubricating system for loom letoffs. W. S. Snow. 2,594,816, Apr. 29.
Lubrication system. C. C. S. Le Clair. 2,594,320, Apr. 29.
Machine for applying ribbed strips to orthopedic insoles. N. E. Mariner. 2,594,470, Apr. 29.
Machine for feeding, working, and mixing plastic material. J. C. Clinefelter. 2,595,210, Apr. 29.
Machine for mixing and kneading or for mincing, Electrically driven. H. T. Lamb. 2,594,936, Apr. 29.
Machine for piercing eggs and for emptying same by means of a current of air. A. Bosch and G. J. Noltes. 2,594,619, Apr. 29.
Magazine type solid fuel burning heater. B. B. Kahn and P. F. Metz. 2,595,146, Apr. 29.
Magnetic contouring system. W. M. Powell. 2,594,989, Apr. 29.
Magnetic recording medium. H. T. Faus. 2,594,893, Apr. 29.
Magnetic recording system for call data in automatic telephony. J. B. Retallack. 2,594,495, Apr. 29.
Magnetic reproducing device with means to prevent accidental erase of record medium. S. J. Begun. 2,594,848, Apr. 29.
Magnetic testing apparatus. T. E. Lynch. 2,594,947, Apr. 29.
Manometer, Dual. J. V. Hodshire. 2,594,649, Apr. 29.
Manually operable machine tool. A. E. Gaudreau. 2,594,415, Apr. 29.
Manufacture of mineral wool, Method and apparatus for the. E. R. Powell. 2,594,799, Apr. 29.
Manufacturing ampoules, Method and machine for. F. H. Hughes and G. J. Murray. 2,595,077, Apr. 29.
Manufacturing hat bodies, Method and machine for. M. T. Hoffman. 2,594,558, Apr. 29.
Marine marker, Retrievable. S. W. Woodard. 2,594,702, Apr. 29.
Master or central station controller. E. R. Kilgen. 2,595,083, Apr. 29.
Mastic applying and corner finishing tool. R. G. Ames. 2,594,606, Apr. 29.
Match splints, Making. F. Schafer. 2,594,351, Apr. 29.
Means for supporting the nozzles of the combustion chambers of internal-combustion turbines. A. A. Rubbra. 2,594,808, Apr. 29.
Measuring device. S. S. Swanson. 2,595,021, Apr. 29.
Measuring device for mercury and powdered metal. H. J. Russell. 2,595,101, Apr. 29.
Measuring system. D. L. Hall. 2,594,428, Apr. 29.
Mechanicall trip control for presses. V. Georgeff. 2,594,909, Apr. 29.
Mechanical vibration system. K. Ehrat and V. Milliquet. 2,594,749, Apr. 29.
Mechanism for loading sheet material into magazines. C. G. Preis and R. E. J. Nordquist. 2,594,346, Apr. 29.
Merchandise package. R. C. Zimmerman. 2,595,043, Apr. 29.
Metal vapor electric discharge apparatus. H. C. Bertele. 2,594,851, Apr. 29.
Meter: *See*—
Modulation meter. Roentgen meter.
Metering fuel pump. W. E. Leibing. 2,594,662, Apr. 29.
Method and apparatus for grinding. N. Ahlmann. 2,595,117, Apr. 29.
Method and apparatus for processes employing fluent solids. C. L. Caldwell. 2,594,289, Apr. 29.
Method for consolidating or for plugging sands. G. G. Wrightsman. 2,595,184, Apr. 29.
Methylol melamine derivatives. M. Kosmin. 2,594,452, Apr. 29.
Mill: *See*—
Flange rolling mill.
Mineral oil compositions. L. E. Beare. 2,594,279, Apr. 29.
Mineral oil, Stabilised. H. W. Rudel and A. D. Kirshenbaum. 2,595,170, Apr. 29.
Mirror, Signaling. R. S. Hunter. 2,594,310, Apr. 29.
Mixing apparatus. L. E. Myiting. 2,594,975, Apr. 29.
Model airplane glider. P. K. Guillow. 2,595,074, Apr. 29.
Modified drying oils. C. H. Fisher, M. Zief, and R. C. Hockett. 2,594,303, Apr. 29.
Modulation meter. K. D. Bailey. 2,594,274, Apr. 29.
Moisture teller. H. W. Dietert and A. L. Graham. 2,594,743, Apr. 29.

Mold for casting flexible revetment mats. F. I. Louckes. 2,594,324, Apr. 29.
Molded tubular body. G. Alexander and R. T. Walsh. 2,594,838, Apr. 29.
Molding apparatus. S. Flam. 2,594,760, Apr. 29.
Molding machine, Concrete block. L. T. Ferrin. 2,595,066, Apr. 29.
Mop holder having a hollow handle and a retractable jaw. S. J. Care and A. Shara. 2,594,392, Apr. 29.
Motor: *See*—
Fluid motor.
Motor mounting. A. B. Nietfeld. 2,594,674, Apr. 29.
Mounting: *See*—
Balance testing machine rotor mounting. Motor mounting.
Contact mounting. Shiftable gear mounting.
Movable highway signal. E. A. Lieutard. 2,594,463, Apr. 29.
Movable jaw chucking device. G. Sanderson. 2,594,503, Apr. 29.
Multiple channel electronic switch. S. Bertram. 2,594,535, Apr. 29.
Multiple expansible pulley unit. P. B. Reeves. 2,595,203, Apr. 29.
Multiple unit self-cleaning dust filter. W. G. Martens, Jr. 2,594,957, Apr. 29.
Multisection pipe protector. F. M. Gist. 2,594,550, Apr. 29.
Needle for phonographs, Ball point. H. A. Fischer. 2,594,759, Apr. 29.
Neutralizing and spray drying a solution of organic sulfonic acid. D. H. Condit. 2,594,875, Apr. 29.
Nonpolarizing electrode for electric logging of boreholes. M. R. J. Wyllie. 2,595,042, Apr. 29.
Novelty device in nature of viewing means. E. M. Thomas. 2,594,698, Apr. 29.
Nozzle, Angle head abrasive blast. E. W. Crumley. 2,594,735, Apr. 29.
Nozzle, Bean duster. J. E. Poe. 2,594,798, Apr. 29.
Nozzle, Sheet separator air blast. G. F. Watson. 2,594,373, Apr. 29.
Nozzle, Valved lubrication. C. C. S. Le Clair. 2,595,211, Apr. 29.
Nursing bottleholder. F. M. Emens. 2,594,545, Apr. 29.
Nutcracker. H. E. Cox. 2,594,401, Apr. 29.
Nut holder. E. H. Leftwich. 2,594,321, Apr. 29.
Nut picking and separating machine. R. C. Hiatt. 2,594,776, Apr. 29.
Offset locking adjustment collar. J. N. Miller and E. Gairing. 2,594,969, Apr. 29.
Oil can. A. G. Anderson. 2,595,118, Apr. 29.
Opener, Carton. E. C. Burhans. 2,595,122, Apr. 29.
Opener, Electric can. R. Nessler. 2,595,162, Apr. 29.
Optical comparing unit. M. R. Dilling. 2,594,744, Apr. 29.
Organ reed construction. L. E. Hayslett. 2,594,306, Apr. 29.
Organic phosphorous acids and esters. G. M. Kosolapoff. 2,594,454, Apr. 29.
Oscillating circuits. R.-E. Guillemant. 2,594,915, Apr. 29.
Oscillator for relay operation, Coin controlled. A. M. Gordon. 2,594,424, Apr. 29.
Overnight case and portfolio, Combination. S. H. Lifton. 2,595,089, Apr. 29.
Oxacycloalkanes, Substituted. N. J. Leonard. 2,594,322, Apr. 29.
Packaged refrigerant. W. E. Moore. 2,595,672, Apr. 29.
Pad structure. W. A. Steward. 2,595,111, Apr. 29.
Pallet container assembly for shipping articles. L. J. Budd. 2,594,287, Apr. 29.
Paper fastener. H. I. Shoenberger and F. K. Stevenson. 2,595,108, Apr. 29.
Paper moistener, Splashproof. R. G. Olden. 2,594,486, Apr. 29.
Parallel screw machinist's clamp. R. A. Mull. 2,594,794, Apr. 29.
Partition assembling machine. R. J. Hickin. 2,594,924, Apr. 29.
Pasty vehicle for artist's paint. B. J. Mellwig. 2,594,273, Apr. 29.
Peanut harvester pickup. J. D. Stevens. 2,595,177, Apr. 29.
Pear peeling mechanism. H. A. Skog. 2,594,361, Apr. 29.
Penicillin salts, Production of. E. Frederiksen and E. J. Nielsen. 2,595,068, Apr. 29.
Phenyltrichlorosilane, Preparation of. S. D. Brewer. 2,594,860, Apr. 29.
Phonograph. B. R. Carson. 2,595,125, Apr. 29.
Phonograph, Automatic. C. G. Johnson. 2,594,563, Apr. 29.
Phonographic disks, Manufacture of. A. B. St. Hilaire. 2,594,365, Apr. 29.
Phosphorous acid, Preparing. J. W. Lefforge and R. B. Hudson. 2,595,198, Apr. 29.
Phosphorous acid salts and preparing same. J. W. Lefforge and R. B. Hudson. 2,595,199, Apr. 29.
Photomultiplier tube circuit. L. F. Wouters. 2,594,703, Apr. 29.
Pie plate depositor. D. W. Smith. 2,595,013, Apr. 29.
Piezoelectric crystal apparatus. J. M. Wolfskill. 2,595,037, Apr. 29.
Piezoelectric transducer with push-pull and feedback circuit. J. P. Arndt, Jr. 2,594,841, Apr. 29.

Pin: *See*—
Fish impaling pin.
Pin and clasp for jewelry. M. C. Meyer. 2,594,475, Apr. 29.
Pin feeder. S. J. Gartner. 2,595,071, Apr. 29.
Pipe cutter. J. R. Jobe. 2,594,654, Apr. 29.
Pipe-lifting device. E. J. Handley. 2,594,429, Apr. 29.
Piston packing ring assembly. W. L. Tatham. 2,594,697, Apr. 29.
Piston ring. H. P. Phillips. 2,594,986, Apr. 29.
Piston ring assembly and elements thereof. H. P. Phillips. 2,594,987, Apr. 29.
Piston ring construction. A. Bergeron. 2,594,282, Apr. 29.
Pitch finder for levels. E. R. Steady. 2,595,109, Apr. 29.
Pivot for shears. A. A. Lincoln. 2,594,941, Apr. 29.
Plastic tubing, Method and apparatus for producing. J. Bailey. 2,594,842, Apr. 29.
Pliers, Scoop removal. L. H. Morin. 2,594,789, Apr. 29.
Plow hitch. A. E. Rutter. 2,594,592, Apr. 29.
Plug connector. G. B. Benander. 2,594,850, Apr. 29.
Plug valve. L. C. Culp. 2,594,736, Apr. 29.
Plumb bob. L. Suverkrop. 2,594,823, Apr. 29.
Plumber's level, Adjustable. C. B. Douglas. 2,594,543, Apr. 29.
Point adjuster for distributors. J. S. Kerr. 2,594,447, Apr. 29.
Polishing machine. F. E. Hendrickson. 2,594,646, Apr. 29.
Polystyrene interpolymers convertible to the infusible and insoluble state. E. E. Novotny and G. K. Vogelsang. 2,594,579, Apr. 29.
Polyvinyl chloride compositions, Plasticized. T. M. Patrick, Jr. 2,594,488, Apr. 29.
Portable pump. A. H. Ruthman. 2,594,501, Apr. 29.
Portable urinal. J. J. Nugent. 2,594,339, Apr. 29.
Pot mouthpiece wiper. W. O. Becker. 2,594,613, Apr. 29.
Pot, Sectional plant. R. C. Valenzuela. 2,594,307, Apr. 29.
Pot spinning apparatus. J. J. McCann. 2,594,783, Apr. 29.
Potato juice. E. G. Heisler and R. H. Treadway. 2,594,308, Apr. 29.
Powder valve. E. Meincke. 2,594,786, Apr. 29.
Power sprinkler shutoff. A. F. Stetson. 2,594,596, Apr. 29.
Power supply for radio sets. A. R. Rees. 2,594,801, Apr. 29.
Power unit with thermostatic control. J. A. Lauck. 2,594,460, Apr. 29.
Precision measuring tool. P. J. Bauerle. 2,594,844, Apr. 29.
Prefabricated counter sections and assemblies thereof. T. H. Swisher. 2,594,516, Apr. 29.
Preset type impulse-sender. J. J. Madden. 2,594,949, Apr. 29.
Press: *See*—
Shoe sole press.
Pressed metal meter box. K. H. Foskett. 2,595,132, Apr. 29.
Pressure gauge. W. T. Engel. 2,595,063, Apr. 29.
Pressure limiting means for liquid charged refrigeration expansion valves. F. Y. Carter. 2,594,393, Apr. 29.
Pressure maintaining device. E. M. Deters. 2,594,405, Apr. 29.
Pressure regulator gauge guard. J. L. Matasovic. 2,595,156, Apr. 29.
Pressure spray apparatus. J. P. Quarles. 2,594,992, Apr. 29.
Primary battery and consumer. F. Portail. 2,594,988, Apr. 29.
Printing paste comprising a vat dye carried in a water-in-oil emulsion, said oil being a liquid hydrocarbon in which an alkyd resin is dissolved. F. Fordemwalt. 2,594,899, Apr. 29.
Producing designs on building walls. J. Herck. 2,595,142, Apr. 29.
Program controller, Electronic. G. B. Bailey. 2,594,716, Apr. 29.
Projector and target game. J. J. Di Meo. 2,594,745, Apr. 29.
Propeller reversing throttle. A. T. Holt. 2,594,927, Apr. 29.
Proportioning and feeding apparatus. W. P. Thurber and J. I. Montel. 2,594,519, Apr. 29.
Protection apparatus for fluid pressure brakes. E. G. Erson. 2,594,546, Apr. 29.
Protective relay for transmission systems. R. J. Wensley. 2,595,032, Apr. 29.
Protector: *See*—
Multisection pipe protector.
Protractor. G. B. Marsden. 2,594,574, Apr. 29.
Pterins and production of the same. M. E. Hultquist and J. M. Smith, Jr. 2,595,196, Apr. 29.
Pulley and clutch mechanism. P. F. Koch. 2,594,450, Apr. 29.
Pump: *See*—
Metering fuel pump. Portable pump.
Pump and motor therefor. A. E. McFarland. 2,594,577, Apr. 29.
Pumping system and storage tank. S. M. White. 2,594,833, Apr. 29.
Purification of aliphatic hydrocarbons. A. E. Hirschler. 2,594,557, Apr. 29.
Purification of derivatives of phenoxyacetic acid. G. S. Hartley. 2,594,556, Apr. 29.
Purification of oils by clay contacting. H. R. Davis. 2,594,880, Apr. 29.
Quilt marker. O. Z. D. Johnson. 2,595,081, Apr. 29.
Rack: *See*—
Casket floral rack. Drip-catching spoon rack.
Rack for plastic dish covers. R. E. Thompson. 2,594,699, Apr. 29.
Radio receiver tuning switch. H. C. Hansen. 2,594,644, Apr. 29.
Radio system for aircraft identification. P. J. Herbst. 2,595,141, Apr. 29.
Rake attachment, Corn. H. K. Martin. 2,594,573, Apr. 29.
Ratchet mechanism. G. E. Raynor. 2,595,213, Apr. 29.
Razor, Rotary blade safety. E. C. Garrard and K. Harrold. 2,594,764, Apr. 29.
Receptacle: *See*—
Butter warming receptacle.
Receptacle for tableware and the like. M. I. Naken. 2,594,483, Apr. 29.
Record changer. F. Freimann, C. Hart, and A. L. Knox, Sr. 2,594,633, Apr. 29.
Recovery of ammonium sulfate. E. V. Schulte. 2,595,104, Apr. 29.
Recovery of valuable constituents from waste sulfite liquor. H. Ehrensperger. 2,594,302, Apr. 29.
Recovery of zinc values by selective flotation of sulfide ores. W. A. Bates. 2,594,612, Apr. 29.
Reduction and refining of ferrous ores in one continuous operation. W. E. Dudley. 2,594,298, Apr. 29.
Reeling device. L. Nixon. 2,594,484, Apr. 29.
Refining Trinidad Lake asphalt. H. C. Howell. 2,594,929, Apr. 29.
Reflector and light, Rotatably mounted. M. J. Singer. 2,595,011, Apr. 29.
Refrigerated display tank. L. J. McGrath. 2,594,474, Apr. 29.
Refrigerated liquid storage tank. F. J. Zamboni. 2,594,603, Apr. 29.
Registration monitoring. A. V. Bedford. 2,594,382–3, Apr. 29.
Regulator: *See*—
Generator regulator. Voltage regulator.
Regulator. W. G. Neild. 2,594,977, Apr. 29.
Relining worn bearing surfaces. E. L. Schaub and F. Hertel, Jr. 2,594,810, Apr. 29.
Remote-control system with supervisory means. G. L. Haller. 2,594,305, Apr. 29.
Removable runway. H. Greenberg. 2,594,425, Apr. 29.
Removal of carbonyl sulfide from liquefied petroleum gas. A. B. Johnson and D. H. Condit. 2,594,311, Apr. 29.
Resinous compositions and their use. J. D. Nelson. 2,594,979, Apr. 29.
Resinous products from aromatic polyketones and polyamides. H. S. Bloch and R. B. Thompson. 2,594,537, Apr. 29.
Resonance combustion apparatus. R. H. Goddard. 2,594,765, Apr. 29.
Revolving anode Roentgen ray tube. H. Kehrli. 2,594,564, Apr. 29.
Rheostat potentiometer. L. Dewan. 2,595,189, Apr. 29.
Ring: *See*—
Piston ring.
Rivet applying and removing tool. J. L. Rein. 2,594,802, Apr. 29.
Riveted joint. K. C. Allison. 2,594,840, Apr. 29.
Rock drill. J. C. Curtis and E. G. Gartin. 2,595,128, Apr. 29.
Rod: *See*—
Fishing rod.
Rod of dental impression material. W. L. Wade. 2,594,830, Apr. 29.
Roentgen meter. C. C. Lauritsen. 2,594,660, Apr. 29.
Roll-handling and control mechanism for cloth inspecting machines. E. F. Clark and L. F. Remington. 2,595,055, Apr. 29.
Roll-up type vehicle top cover. F. A. Germann. 2,594,910, Apr. 29.
Rotary cyclic stress testing apparatus. H. E. Fritz. 2,595,069, Apr. 29.
Rotary interleaving apparatus. C. O. Rumph. 2,594,499, Apr. 29.
Rotary stirrer and liquid dispensing valve. N. Grubelic. 2,594,768, Apr. 29.
Rubber covered roll. J. Rockoff. 2,594,348, Apr. 29.
Rule, Slide. W. J. Boos. 2,594,857, Apr. 29.
Rust preventing composition and preparing same. C. F. McCue and W. E. J. Broom. 2,595,158, Apr. 29.
Rust-preventing plug for bores of firearms. R. C. Hoard. 2,594,778, Apr. 29.
Safety cutoff system for gas burners responsive to air pressure and thermostatic control. H. G. V. Hansen. 2,594,430, Apr. 29.
Safety device for magnetic record erasing. H. F. Kuhlow. 2,595,197, Apr. 29.
Safety holding board for use in caring for babies. J. R. Donnen. 2,594,883, Apr. 29.
Safety valve. C. E. Earle. 2,594,626, Apr. 29.

Salicylic acid salt of 8-(5'-isopropylaminoamylamino)-6-methoxyquinoline. C. F. Geschickter and M. I. Rubin. 2,594,418, Apr. 29.
Saturated oxonitriles, Preparation of. T. M. Patrick, Jr. 2,594,489, Apr. 29.
Saw having two oppositely reciprocating blades, Power-driven reciprocating drag. H. E. Ringgold. 2,594,997, Apr. 29.
Sawhorse leg assembly, Collapsible. F. B. Loucks, Jr. 2,594,464, Apr. 29.
Saw-tooth conditioning device. V. P. Fisher and L. H. Poole. 2,594,413, Apr. 29.
Sawing machine, Band saw log coping. F. Griffith. 2,595,073, Apr. 29.
Seal for ash hoppers. L. E. Mylting. 2,594,976, Apr. 29.
Sealed beam lamp. R. N. Falge. 2,594,753, Apr. 29.
Seam for joining the meeting or overlapping edge portions of fabric sections. F. Lutz. 2,595,152, Apr. 29.
Sectional container. J. H. Taberer. 2,595,113, Apr. 29.
Seismic surveying. R. P. Green. 2,594,767, Apr. 29.
Selecting mechanism for color weft insertion. H. J. Cooper. 2,594,398, Apr. 29.
Selective flotation of zinc. L. G. Hendrickson, P. L. Dixon, and B. E. Lyle. 2,595,076, Apr. 29.
Selective article spacing apparatus for conveyers. H. E. Temple. 2,595,022, Apr. 29.
Selective orienting button positioning machine. F. W. Troske. 2,595,206, Apr. 29.
Self-clearing star feeder. L. E. Mylting. 2,594,974, Apr. 29.
Self-locking nut. C. E. Nagel. 2,595,201, Apr. 29.
Selvage finishing mechanism. W. N. Hadley. 2,594,918, Apr. 29.
Selvage loop cutting mechanism. W. N. Hadley. 2,594,919, Apr. 29.
Separable fastener. B. J. Cosneck. 2,594,609, Apr. 29.
Separating diorganohalogenosilanes from mixtures of the latter and organotrihalogenosilanes. G. R. Lucas. 2,594,946, Apr. 29.
Separating metal halides. D. M. Warburton. 2,594,370, Apr. 29.
Separation of alcohols. N. J. Bowman and A. W. Weitkamp. 2,594,481, Apr. 29.
Setting and furling sails. J. W. Steube and W. Smyth. 2,595,110, Apr. 29.
Sewage treatment. F. O. Hess, M. B. Tark, and E. R. Schofield. 2,594,433, Apr. 29.
Sewing machine, Miniature lock stitch. S. R. Bell. 2,594,534, Apr. 29.
Shaker, Salt. G. W. Lynch, Jr., and J. M. Fischer. 2,594,467, Apr. 29.
Shears, Pinking. H. C. Wheeler. 2,595,033, Apr. 29.
Sheet metal clamp operating tool. W. L. Lincoln. 2,594,942, Apr. 29.
Shiftable gear mounting. R. R. Burkhalter. 2,595,209, Apr. 29.
Shipping container. R. F. Ries. 2,594,586, Apr. 29.
Shock-absorbing suspension for instruments or the like. G. R. Greenslade. 2,595,135, Apr. 29.
Shock resistant static overload relay. V. J. Wattenberger. 2,594,372, Apr. 29.
Shoe sole press. S. J. Campione. 2,594,728, Apr. 29.
Shower bath cabinet. J. P. Harner. 2,594,645, Apr. 29.
Side catch and lock for bag frames, Combined. A. Levine. 2,594,940, Apr. 29.
Side wall sampler. P. D. Cornelius. 2,594,292, Apr. 29.
Signal: *See*—
Irrigation signal. Movable highway signal.
Silica-metal oxide gel catalyst, Preparation of a. G. C. Connolly. 2,595,056, Apr. 29.
Silver and zinc accumulator having an insoluble negative electrode. H. G. André. 2,594,712, Apr. 29.
Silver and zinc accumulator with insoluble negative electrode and invariable electrolyte. H. André. 2,594,709, Apr. 29.
Simple turbidity measuring device. Z. I. Kertesz. 2,595,082, Apr. 29.
Single crystal fabrication. W. A. Rocco. 2,594,998, Apr. 29.
Sink, Portable camping. J. C. Leavitt. 2,594,938, Apr. 29.
Sleeping bag. W. W. Howe. 2,594,438, Apr. 29.
Slidable bar ratchet wrench. A. E. Meyers. 2,594,964, Apr. 29.
Slide fasteners, Manufacture of. H. A. Simpson. 2,594,691, Apr. 29.
Slip clip and combination garment. L. Hart. 2,595,139, Apr. 29.
Slip lifter lock. B. F. Kelley. 2,594,446, Apr. 29.
Smoking device. G. W. Rehfeld. 2,594,680, Apr. 29.
Sofa bed. E. E. Woller. 2,595,038, Apr. 29.
Solutions of polymers of vinylidene cyanide in alkyl esters of phosphoric acid. R. F. Schmidt. 2,594,353, Apr. 29.
Spaced pulse impulse sender. C. A. Lovell. 2,594,325, Apr. 29.
Spaced-pulse type impulse sender. K. S. Dunlap and C. A. Lovell. 2,594,300, Apr. 29.
Speed control apparatus. M. Lindell. 2,594,663, Apr. 29.
Spindle adapter for supporting rayon cakes. E. A. Stienen. 2,594,366, Apr. 29.
Spinning spindle mechanism, including a worm and worm wheel drive. L. Birkigt. 2,594,724, Apr. 29.
Spiraled paraffin remover for oil wells. J. C. Tripplehorn. 2,595,025, Apr. 29.
Sponge element and backing therefor for removable attachment to a mophead. N. B. Greenleaf and L. C. Webster. 2,594,553, Apr. 29.
Spotlight attachment for mirrors. H. C. Mead. 2,594,784, Apr. 29.
Spout, Detachable pouring. A. R. Bowman. 2,594,858, Apr. 29.
Spout, Liquid level controlled filling. O. F. Rhodes. 2,595,166, Apr. 29.
Sprayer, Garden and insecticide. H. J. Miller. 2,594,476, Apr. 29.
Spraying freely falling particles. J. J. Mahoney. 2,594,469, Apr. 29.
Spreader for chemical fertilizer material having spiral elements for manipulating the material. T. T. Scott. 2,594,687, Apr. 29.
Spring canopy for pipes. I. Barfus. 2,594,843, Apr. 29.
Spring jack. T. C. Johnston. 2,594,443, Apr. 29.
Spring latch. B. A. Quinn. 2,594,582, Apr. 29.
Sprinkler, Lawn and crop. Z. Wieseltier. 2,595,114, Apr. 29.
Stabilization of glyceride oils with iminodisuccinic acid. J. C. Cowan and C. D. Evans. 2,594,294, Apr. 29.
Stabilization of halogenated hydrocarbons. F. M. Clark. 2,594,872, Apr. 29.
Stabilized control system. H. Ziebolz and P. Glass. 2,594,604, Apr. 29.
Stand: *See*—
Bicycle kick stand. Display stand.
Starter jaw meshing device. R. E. Sears and A. F. Karlin. 2,595,004, Apr. 29.
Stator winding machine. E. C. Allen. 2,594,707, Apr. 29.
Steam power producing plant working with two water sources, the difference of temperature of which is small. L. Nisolle. 2,595,164, Apr. 29.
Stock food and making same. D. B. Vincent. 2,595,181, Apr. 29.
Storage and signaling system, Electrical. H. F. May. 2,594,960, Apr. 29.
Storm window. S. Spector and G. J. Teplanszki. 2,595,016, Apr. 29.
Strand serving apparatus. J. O. Hamilton. 2,595,138, Apr. 29.
Strapping machine. W. C. Childress and A. I. Ericsson. 2,594,397, Apr. 29.
Streptomycin-polymyxin-bacitracin composition. H. Welch. 2,594,374, Apr. 29.
Stretching the cloth web in weft direction in looms. H. Bechter. 2,594,846, Apr. 29.
Stud feeding machine. J. Evasic. 2,595,065, Apr. 29.
Substantially infusible nitrogenous resins and producing same. G. K. Vogelsang. 2,594,601, Apr. 29.
Suction cleaner. O. Berg. 2,594,281, Apr. 29.
Suction cleaner. D. C. Gerber, F. A. Martin, and E. L. Snyder. 2,594,416, Apr. 29.
Suction cleaner construction. D. C. Gerber. 2,594,417, Apr. 29.
Sundial and compass. F. P. Upton. 2,594,600, Apr. 29.
Supercharger for internal-combustion engines. J. H. Sammons. 2,594,686, Apr. 29.
Support: *See*—
Adjustable coil spring center support. Adjustable seat support.
Adjustable door support. Clothesline support.
Collapsible line support.
Support for motion-picture apparatus and the like. A. V. L. C. Debrie. 2,594,404, Apr. 29.
Suppression of proximity development with azine color developers. R. C. Gunther. 2,594,917, Apr. 29.
Surge generator. D. E. Stearns. 2,594,595, Apr. 29.
Suspension polymerization employing phosphates of submicronic particle size. J. M. Grim. 2,594,913, Apr. 29.
Switch: *See*—
Coin switch. Radio receiver tuning switch.
Multiple channel electronic switch.
Switch and circuit for induction motors, Control. J. C. Koonz. 2,594,657, Apr. 29.
Switch and circuit, Induction motor control. J. C. Koonz. 2,594,658, Apr. 29.
Synchronizing apparatus for color signal sampling oscillators. L. E. Barton and P. H. Werenfels. 2,594,380, Apr. 29.
Synchronizing means for rotors. E. Skillman. 2,594,692, Apr. 29.
Synthesis of alcohol from olefins, carbon monoxide and hydrogen. P. T. Parker. 2,595,096, Apr. 29.
Synthesis of cyclooctadiene-1,5. R. M. Elofson. 2,594,889, Apr. 29.
System and apparatus for selective photographing. R. R. Shaw. 2,594,358, Apr. 29.
System for making reservations. R. W. Bumstead. 2,594,865, Apr. 29.
Tablet jellies and preparing same. G. L. Baker and M. Olliver. 2,594,439, Apr. 29.
Tackle holder. C. F. Bryant. 2,595,051, Apr. 29.
Tackle retriever. V. P. Bivens. 2,594,852, Apr. 29.
Take-down arrangement for firearms. V. A. Browning. 2,594,861–2, Apr. 29.
Tank: *See*—
Refrigerated display tank.
Refrigerated liquid storage tank.
Tank opening assembly. W. C. Uhri. 2,594,599, Apr. 29.

Tape dispenser and applier. T. H. Krueger and E. E. Sharpe. 2,594,316, Apr. 29.
Tape-roll and reel assembly. W. D. Fling. 2,594,630, Apr. 29.
Tapered roller bearing. D. McNicoll. 2,594,578, Apr. 29.
Telegraph hub electronic loop repeater circuit. W. T. Rea. 2,594,993, Apr. 29.
Telephone signaling system, Voice-frequency. C. E. Beale. 2,594, 719, Apr. 29.
Telephone system, Call data recording. R. E. Hersey and E. Vroom. 2,594,923, Apr. 29.
Telephone system, Recording. F. J. Scudder. 2,595,106, Apr. 29.
Temperature control system for a fluid under pressure. T. S. Sprague and B. N. McDonald. 2,594,818, Apr. 29.
Terminal equipment for aircraft. F. R. Harris. 2,594,773, Apr. 29.
Textile device. E. R. Stahl. 2,594,509, Apr. 29.
Thermostatic control device. S. G. Eskin and H. W. Rice. 2,594,750, Apr. 29.
Thermostatic controller. C. J. Penther and W. B. Milligan. 2,594,984, Apr. 29.
Thigh limb and producing same. O. I. Fahlström. 2,594,751, Apr. 29.
Thiophene derivatives. W. S. Emerson and T. M. Patrick, Jr. 2,594,408, Apr. 29.
Ticket printing and issuing machine. J. R. Montgomery. 2,594,787, Apr. 29.
Timepiece dials, Manufacturing. C. Stern. 2,594,820, Apr. 29.
Timing means, Telephone conversation. G. Elliott. 2,595,062, Apr. 29.
Toasting apparatus and control, Bread. W. A. Humphrey. 2,594,441, Apr. 29.
Toasting mechanism. H. B. White. 2,594,528, Apr. 29.
Toe covering and making same. D. L. Naden. 2,594,482, Apr. 29.
Tool: *See*—
- Angular piercing tool.
- Axial impact type tang break-off tool.
- Cutting tool.
- Garden tool.
- Manually operable machine tool.
- Mastic applying and corner finishing tool.
- Precision measuring tool.
- Rivet applying and removing tool.
- Sheet metal clamp operating tool.
- Wire strapping tool.

Tool and the like, Bailing. J. F. Dornacher. 2,594,884, Apr. 29.
Tool for repairing slide fasteners. J. S. Harris. 2,594,774, Apr. 29.
Tool for stretching finger rings. E. G. Henry. 2,594,432, Apr. 29.
Tool for wells, Hydrostatic pulling. L. W. Smith and L. W. Smith, Jr. 2,595,014, Apr. 29.
Tool for wire thread inserts, Pregauging. J. O. Forster. 2,594,900, Apr. 29.
Tool grinding fixture. G. H. Mouw. 2,595,093, Apr. 29.
Toolholder. E. C. Crawford. 2,594,402, Apr. 29.
Top roll. W. C. Wright. 2,595,041, Apr. 29.
Toy dog bank. H. A. Kieselhorst. 2,594,448, Apr. 29.
Toy roundabout. W. H. J. Downey. 2,595,061, Apr. 29.
Toy, Spring operated. S. Wechsler. 2,594,527, Apr. 29.
Tractor attachment. J. E. Tom. 2,595,023, Apr. 29.
Tractor hitch and drive means for portable concrete mixers. W. O. Frohring. 2,594,904, Apr. 29.
Trailer for boats, Adjustable. A. D. Cole and F. J. Kowalewski. 2,594,540, Apr. 29.
Transferring a film web from a roll to a reel of film developing means. H. Neuwirth. 2,594,980, Apr. 29.
Transistor pulse divider. J. T. Bangert. 2,595,208, Apr. 29.
Transistor switching device. R. J. Kircher. 2,594,449, Apr. 29.
Transmission line. M. C. Pease. 2,594,983, Apr. 29.
Transmit-receive box system, Prefired. B. B. Cork. 2,594,732, Apr. 29.
Transmitter with rotating antenna, Radio pulse. J. K. McKendry. 2,594,965, Apr. 29.
Transverse sliding breech bolt lock. D. V. Schnepel. 2,594,354, Apr. 29.
Trap: *See*—
- Animal trap.

Trap for rats, mice, and the like. L. R. Edwards. 2,595,130, Apr. 29.
Tray, Annealing. P. S. Menough. 2,594,963, Apr. 29.
Tray, Dental impression. F. C. Wentzel. 2,594,832, Apr. 29.
Treadle operated gate. J. W. Swift. 2,594,515, Apr. 29.
Treating fish press fluids. D. B. Vincent. 2,595,180, Apr. 29.
Treatment of garbage through fermentation. J. G. C. J. Verdier. 2,595,027, Apr. 29.
Trim tab servomotor control. A. M. MacCallum. 2,594,326, Apr. 29.
Trithials of salicaldehyde and their chlorinated derivatives as insecticidal and fungicidal compositions. A. J. Shmidl. 2,595,173, Apr. 29.
Trolling spoon. J. A. I. Öhlund and S. G. Bergman. 2,594,981, Apr. 29.
Trough lifter. A. C. Motl. 2,594,791, Apr. 29.
Trouser hanger. G. L. Walter. 2,594,602, Apr. 29.
Troweling machine. H. E. McCrery. 2,594,331, Apr. 29.
Truck, Lift. B. E. Barnes. 2,595,120, Apr. 29.
Truck, Railway. A. R. Cripe. 2,594,734, Apr. 29.
Truss. E. Mantel. 2,595,154, Apr. 29.
Tube: *See*—
- Revolving anode Roentgen ray tube.

Tube socket. S. M. Del Camp. 2,595,188, Apr. 29.
Tuner for radio and television receivers and the like. C. W. Lytle and F. Nienaber. 2,594,667, Apr. 29.
Turbine governing system. R. Sheppard. 2,595,007, Apr. 29.
24-substituted delta 5-cholene-3, 24-diols. R. H. Levin, A. V. McIntosh, Jr., and G. B. Spero. 2,594,323, Apr. 29.
Two-hand press control device. C. C. Tiedman. 2,594,520, Apr. 29.
Two-pole turbogenerator rotor. A. Mándi and F. Ratkovszky. 2,594,932, Apr. 29.
Two source binary-decade counter. A. H. Dickinson. 2,594,742, Apr. 29.
Two-stroke cycle internal-combustion engine. W. Baumann. 2,594,845, Apr. 29.
Typewriter page end indicator. H. C. Stricklin. 2,595,178, Apr. 29.
Underwater gravity surveying, Method and apparatus for. W. D. Mounce. 2,595,092, Apr. 29.
Uniformly tensioning an advancing strand, Method and apparatus for. C. O. Haase. 2,594,427, Apr. 29.
Universal manipulator for grasping tools. C. M. Gordon. 2,595,134, Apr. 29.
Unloader for sleeve valve gas compressors. C. B. Smith. 2,594,815, Apr. 29.
Utensil, Broiling. V. J. Runnoe. 2,594,500, Apr. 29.
Utensil, Pressure cooking. S. E. Richeson and J. A. Allegro. 2,594,584, Apr. 29.
Utensil, Serving. I. C. Crimmins. 2,594,403, Apr. 29.
Utilization of oxo bottoms. J. J. Owen and E. V. Fasce. 2,594,341, Apr. 29.
Vacuum cleaner. H. A. Kroenlein. 2,594,456, Apr. 29.
Vacuum printing frame. B. R. Halpern. 2,594,920, Apr. 29.
Valve: *See*—
- Antibackflow valve.
- Aspirating two-way control valve.
- Check valve.
- Plug valve.
- Powder valve.
- Rotary stirrer and liquid dispensing valve.
- Safety valve.

Valve. J. W. Miller. 2,595,160, Apr. 29.
Valve. C. B. Walden and C. Kravagna. 2,594,525, Apr. 29.
Valve construction. I. L. Langvand. 2,594,659, Apr. 29.
Valve for use in refrigerating and like apparatus, Expansion. L. J. Wolf. 2,594,701, Apr. 29.
Valve seat seal, Spring biased. T. R. Smith. 2,595,012, Apr. 29.
Valve with automatic hold and release, Hydraulic control. C. B. Livers and A. A. Meddock. 2,594,664, Apr. 29.
Valved coupling. J. D. Langdon. 2,594,318, Apr. 29.
Vaporizer. L. W. Wallace and C. W. Kincaid. 2,595,029, Apr. 29.
Variable condenser. J. D. Heibel. 2,595,194, Apr. 29.
Variable resistance. G. Olah. 2,594,796, Apr. 29.
Vegetable cleaning and topping device. R. R. Richmond. 2,594,995, Apr. 29.
Vehicle: *See*—
- Hinged section power steered vehicle.

Vehicle body, especially for rail cars. J. Ledwinka and G. Trautvetter. 2,595,212, Apr. 29.
Vehicle body structure. W. Vutz. 2,595,028, Apr. 29.
Vehicle drive control. H. O. Schjolin. 2,594,811, Apr. 29.
Vehicle trunk lid control. E. F. Gustisha. 2,594,643, Apr. 29.
Venetian blind control. T. M. Gertzon. 2,594,637, Apr. 29.
Ventilating shutter, Automatic. W. J. Lohman, Jr. 2,594,944, Apr. 29.
Vibration damper. J. A. Hardy. 2,594,555, Apr. 29.
Viewing device for radioactive materials. G. S. Monk. 2,594,970, Apr. 29.
Vitamin A determination and agents therefor. A. E. Sobel. 2,594,817, Apr. 29.
Vitamin B_{12} concentrates from streptomyces griseus cultures, Preparation of. C. E. Meyer and W. H. De Vries. 2,595,159, Apr. 29.
Voltage regulator. F. J. Lupo. 2,594,572, Apr. 29.
Walking aid for small children. B. Dunkelman. 2,594,625, Apr. 29.
Wall cabinet with lighting fixture to illuminate the interior thereof and direct light downwardly therefrom. C. S. Motter. 2,594,792, Apr. 29.
Wall construction for buildings. A. Horowitz. 2,594,928, Apr. 29.
Wallpaper holder. A. L. Wornstaff. 2,594,835, Apr. 29.
Washer with scum accumulator. G. P. Castner. 2,595,053, Apr. 29.
Washstand combined with water closet. G. O. Sillén. 2,595,009, Apr. 29.
Watch crystal. K. P. Schenke. 2,595,172, Apr. 29.
Water bag carrier. F. W. Greuling. 2,594,640, Apr. 29.

Water-soluble lithium salts from lithium alkali phosphates, Production of. J. W. Sprauer. 2,595,176, Apr. 29.
Waveguide attenuator. R. B. Nelson. 2,594,978, Apr. 29.
Waxing machine, Potato. T. J. Lockwood. 2,595,151, Apr. 29.
Well-drilling machine. O. A. Causey. 2,595,126, Apr. 29.
Well flow device. R. O. Walton. 2,594,831, Apr. 29.
Wheel: *See*—
- Buffing wheel.
- Work wheel.

Wheel assembling machine. F. P. Sharpe. 2,594,506, Apr. 29.
Window construction. E. C. Richardson. 2,595,167, Apr. 29.
Window drapery, Sectional. A. J. Dubinsky. 2,594,624, Apr. 29.
Windshield cleaning apparatus. E. C. Horton. 2,594,437, Apr. 29.
Windshield, Rotary. J. Carmona. 2,594,867, Apr. 29.
Wire cutter. V. A. Jensen. 2,595,145, Apr. 29.
Wire strapping tool. H. K. Embree. 2,594,891, Apr. 29.
Wire stripper. G. R. Stephenson. 2,594,363, Apr. 29.
Work holder. A. J. Hagopian. 2,595,137, Apr. 29.
Work holder for band-sawing. C. J. Barto. 2,594,277, Apr. 29.
Work wheel. F. E. Hendrickson. 2,594,647, Apr. 29.
Wrench: *See*—
- Slidable bar ratchet wrench.

Wrench construction, Gear-operated. C. D. Marshall. 2,594,669, Apr. 29.
Wrench with resilient jaw faces. B. M. Rothe. 2,594,684, Apr. 29.
Wringer. W. L. Kauffman, II. 2,595,149, Apr. 29.
Writing and drawing implement. L. A. Paul. 2,595,097, Apr. 29.
Y rubber stopper. F. C. Gossett. 2,594,639, Apr. 29.
Yarn tension device. W. T. Stearn. 2,594,510, Apr. 29.
Zinc-silver accumulator. H. G. André. 2,594,710–11, Apr. 29.

CLASSIFICATION OF PATENTS

ISSUED APRIL 29, 1952

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number = class, second number = subclass, third number = patent number.

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This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

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Condition of Applications Under Examination at Close of Business April 11, 1952

Total number of patent applications awaiting action, 100,406. Date of oldest new application, June 25, 1951; date of oldest amended application, June 21, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
*(C. E. D.) HERTZ, M.			
1. GOLDBERG, A. J., Excavating; Planters; Plows; Harrows and Diggers (part); Plant Husbandry; Scattering Unloaders; Baths, Closets, Sinks, and Spittoons; Sewage.	7-25-51	7-24-51	2073
2. HERRMAN, D., Fishing, Trapping and Vermin Destroying; Presses, Tobacco; Textile Wringers	9-24-51	9-18-51	1083
3. MARMELSTEIN, N., Metal Founding and Treatment; Metallurgy (Process and Apparatus); Heating; Coating or Plastic Composition (part).	9-11-51	9-10-51	1589
4. FALLER, E. A. (Acting), Mining, Quarrying and Ice Harvesting; Hoists; Power Driven Conveyors; Handling Apparatus.	7-7-51	7-6-51	1623
5. ROBINSON, C. W., Harvesters; Knotters; Harrows and Diggers (part); Bee Culture; Dairy; Butchering; Animal Husbandry; Fences; Gates.	8-27-51	8-27-51	1210
6. SURLE, H., Carbon Chemistry (part)	8-9-51	7-12-51	1858
7. GONSALVES, J. E., Optics; Photography (part)	9-11-51	9-10-51	1199
8. LEWIS, R. O., Racks, Cabinets, Tables, Miscellaneous Furniture; Fire Escapes: Ladders: Scaffolds	7-2-51	7-2-51	1646
9. BRANSON, J. H., Pumps and Fans; Fluid Motors	7-10-51	7-9-51	1454
10. ANDRUS, L. M., Baggage; Cloth, Leather and Rubber Receptacles; Bottles and Jars; Paper Receptacles	7-9-51	7-11-51	1353
11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Cutlery, Leather Manufacture; Nailing and Stapling.	7-20-51	7-23-51	960
12. SPINTMAN, S., Machine Elements (part); Engine Starters; Motor Control with Clutch or Brake; Transmission with Clutch or Brake.	7-12-51	7-21-51	1187
13. BEALL, T. E., Gear Cutting, Milling, Planing; Needle and Pin Making; Metal Working, part (e. g., Special Work, Sawing, Forging, Welding, Drawing, Turning).	7-2-51	7-2-51	1369
14. MANIAN, J. C., Fluid Pressure Brakes; Wire Fabrics; Farriery; Metal Working, part (e. g., Sheet-Metal; Wire; Bending, Misc. Processes; Assembly and Disassembly Apparatus).	7-2-51	7-2-51	1653
15. HENKIN, B., Plastics; Plastic Block and Earthenware Apparatus; Glass	9-22-51	9-21-51	1123
16. LOVEWELL, N. N., Television, Telephony	7-2-51	7-2-51	1227
17. LEIGHEY, R. A., Paper Manufactures; Packaging; Typewriters; Printing; Type Casting and Setting; Sheet Material Association or Folding; Sheet or Web Feeding.	7-5-51	7-6-51	1927
18. KURZ, J. A., Power Plants; Speed Responsive Devices	7-13-51	7-10-51	1248
19. PATRICK, P. L., Liquid and Gaseous Fuel Burners; Stoves and Furnaces	7-20-51	7-25-51	1121
20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Undertaking; Bread, Pastry, and Confection Making; Banking Protection; Safes; Canopies, Umbrellas and Canes.	7-24-51	7-31-51	1411
21. MADER, R. C., Textiles	7-5-51	7-5-51	1320
22. MARLAND, M. L., Aeronautics; Boats; Buoys; Ships; Marine Propulsion; Fluid Current Motors	7-16-51	7-14-51	1108
23. LEWIS, J. B., Cash Registers; Calculators and Counters; Education	7-25-51	7-19-51	825
24. DRACOPOULOS, P. T., Apparel; Apparel Apparatus, Sewing Machines; Textiles, Ironing or Smoothing	8-20-51	8-15-51	1430
25. NEVIUS, R. D., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors; Distillation.	7-17-51	7-16-51	1163
26. YOUNG, R. R., Electricity—Generation, Motive Power, Voltage Magnitude and Phase Control Systems; Elevators.	7-11-51	7-9-51	1212
27. JAMES, S., Brushing, Scrubbing; Liquid Treatment of Solids, General Cleaning; Brush, Broom, and Mop Making.	7-24-51	7-24-51	1534
28. BRAUNER, R. H., Motors, Expansible Chamber Type: Internal-Combustion Engines; Cylinders; Pistons; Motors, Spring, Weight, and Animal Powered; Wheel Substitutes; Chutes, Skids, Guides, Ways; Fluid Current Conveyors; Pneumatic Dispatch; Store Service.	7-18-51	7-14-51	1293
29. HABECKER, L. B., Button Making; Woodworking; Tools	7-23-51	7-24-51	1063
30. BISHOFF, A., Fluid Sprinkling, Spraying and Diffusing; Automatic Temperature and Humidity Regulation; Thermostats, Humidostats; Heating Systems; Refrigeration; Illuminating Burners.	8-21-51	8-21-51	1462
31. HUTCHISON, E. W., Mineral Oils; Carbocyclic or Acyclic-Carbon Compounds (part)—e. g., Ketones, Aldehydes, Ethers, Hydroxy Compounds, Hydrocarbons, Halogenated Hydrocarbons.	8-3-51	8-1-51	1997
32. LE ROY, C. A., Gas and Liquid Contact Apparatus; Heat Exchange; Gas Separation; Agitating	7-10-51	7-14-51	1109
33. MUSHAKE, W. I., Bridges; Hydraulic and Earth Engineering; Building Structures (part); Roads and Pavements.	7-13-51	7-7-51	2006
34. SAPERSTEIN, S., Railways—Draft Appliances, Switches and Signals, Surface Track, Rolling Stock, Track Sanders; Electricity, Transmission to Vehicles; Dumping Vehicles; Vehicle Fenders; Hand and Hoist-Line Implements.	7-21-51	7-16-51	1315
35. BROMLEY, E. D., Dispensing; Filing and Closing Receptacles	7-2-51	7-3-51	1432
36. McFADYEN, A. D., Measuring and Testing	7-12-51	7-11-51	1221
37. REYNOLDS, E. R., Electricity, Circuit Makers and Breakers; Recorders	8-1-51	7-31-51	1279
38. ARNOLD, D., Coating Processes and Apparatus; Rubber, Preserving Apparatus (part); Fluid Treatment of Textiles (Apparatus).	7-11-51	7-14-51	1501
39. WEIL, I., Fluid-Pressure Regulators; Valves; Water Distribution	7-17-51	7-14-51	2030
40. DRUMMOND, E. J., Receptacles (part); Packages	7-21-51	7-16-51	1438
41. GURLEY, R. B., Check-Controller Apparatus; Coin Handling; Article Dispensing Cabinets; Deposit Receptacles; Buckles, Buttons, Clasps.	7-9-51	7-3-51	1156
42. MARANS, H., Electric Signaling (part, except submarine, altimeters, distance or direction measuring, and object detection); Signals; Telegraphy (part); Signals and Indicators.	7-30-51	7-14-51	1090

*Commissioner's Examiners' Division.

Total number of patent applications awaiting action, 100,406. Date of oldest new application, June 25, 1951; date of oldest amended application, June 21, 1951.

PATENT EXAMINING DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
43. ASP, N. A., Medicines, Poisons, Cosmetics; Sugar and Starch; Bleaching; Dyeing; Fluid Treatment of Textiles, Hides, Skins, and Leathers; Preserving (part).	8-25-51	8-15-51	1219
44. HARVEY, L. P., Beds; Chairs, Seats	7-10-51	7-5-51	1369
45. MANIAN, J. A., Wheels, Tires, and Axles; Railway Wheels and Axles; Lubrication; Bearings and Guides; Belt and Sprocket Gearing; Spring Devices; Animal Draft Appliances.	7-27-51	7-19-51	1310
46. O'LEARY, R. A., Concentrating Evaporators; Fire Extinguishers; Liquid Heaters and Vaporizers; Building Structures (Doors, Windows, Awnings and Shutters); Kitchen and Table Articles.	7-5-51	7-6-51	906
47. KANOF, W. J., Motor Vehicles; Land Vehicles (part)	7-9-51	7-13-51	1567
48. BERNSTEIN, S., Electricity, General Applications; Conversion Systems; Electric Igniters; Card and Picture Exhibiting.	7-16-51	7-9-51	1642
49. BENDETT, B., Drying and Gas or Vapor Contact With Solids; Ventilation; Wells; Earth Boring	7-16-51	7-14-51	1445
50. BENGEL, W. G., Synthetic Resins	9-26-51	9-26-51	1461
51. YAFFEE, S., Radiant Energy (part e. g., Radio Signaling); Radiant Energy Communications (part e. g., Duplex, Multiplex, Device Control); Modulators; Music; Piezoelectric Crystals.	7-21-51	7-21-51	1316
52. WHITNEY, F. I., Supports; Joint Packing; Valved Pipe Joints or Couplings; Rod Joints or Couplings; Tool Handle Fastenings; Pipes and Tubular Conduits.	7-26-51	7-18-51	2106
53. BRINDISI, M. V., Label Pasting and Paper Hanging; Book Making; Manifolding; Printed Matter, Stationery, Paper Files and Binders; Closures, Partitions and Panels, Flexible and Portable; Harness; Package and Article Carriers; Whip Apparatus.	8-3-51	8-14-51	1037
54. NILSON, R. G., Electric Lamp and Discharge Devices, Systems, Structures, Manufacture and Repair; Light Sensitive Circuits; Ray Energy Applications.	7-12-51	7-5-51	1626
55. KLINE, J. R., Artificial Body Members; Dentistry; Surgery; Toilet	7-24-51	7-27-51	1106
56. COCKERILL, S., Electrical and Wave Energy Chemistry; Paper Making; Liquid Separation or Purification.	8-4-51	7-30-51	1803
57. MILLER, A. B., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain and Horseshoe Making; Driven and Screw Fastenings; Nut and Bolt Locks; Jewelry; Pipe Joints or Couplings.	7-24-52	7-9-52	1728
58. DOWELL, E. F., Rolls and Rollers; Making Metal Tools and Implements; Stone Working; Abrading Processes and Apparatus; Food Apparatus; Closure Operators.	7-20-51	7-13-51	920
59. SHEPARD, P. W., Inorganic Chemistry; Fertilizers; Gas, Heating and Illuminating	7-19-51	7-19-51	1074
60. LEVY, M. L., Electricity—Heating; Welding; Furnaces; Batteries, Battery Charging and Discharging; Consumable Electrode Lamp and Discharge Devices; Resistances and Rheostats; Prime Mover Dynamo Plants.	8-2-51	8-1-51	1028
61. LANNAN, J., Winding and Reeling; Pushing and Pulling; Horology; Time Controlling Apparatus; Railway Mail Delivery.	7-13-51	7-10-51	1234
62. SHAPIRO, A., Games; Toys; Amusements and Exercising Devices; Mechanical Guns and Projectors	7-25-51	7-20-51	1370
63. WINKELSTEIN, A. H., Fermentation, Foods and Beverages, Carbon Chemistry (part)	7-7-51	7-13-51	1555
64. GORECKI, G. A., Compositions—Coating or Plastic (part); Abrasive Tool Making Processes and Materials; Fuel and Miscellaneous.	8-31-51	8-31-51	1790
65. MORSE, E. L., Electrical Conductors, Conduits, Insulators and Connectors; Illumination	7-23-51	7-23-51	1440
66. LISANN, I., Geometrical Instruments; Automatic Weighers; Weighing Scales	7-19-51	7-3-51	1032
67. KRAFFT, C. F., Laminated Fabrics; Photographic Processes and Products; Ornamentation	7-31-51	7-13-51	1250
68. BERMAN, H., Chucks or Sockets; Shafting and Flexible Couplings; Clutches and Power Stop Control; Brakes; Boring and Drilling.	8-16-51	7-16-51	1607
69. GALVIN, D. J., Electricity—Wave Transmission, Repeaters and Relays (e. g., Amplifiers), Galvanometers and Meters; Acoustics, Sound Recording.	7-12-51	7-12-51	1317
70. BREWRINK, J. L., Guns and Torpedoes, Explosive Charge Making; Electrical Oscillators and Directional and Distance Instruments, Radar; Actinide Compounds, Explosive Compositions, Mass Spectrometers.	6-25-51	6-21-51	2966
DESIGNS: A. BREHM, G. L., Industrial Arts	12-26-51	1-3-52	605
DESIGNS: B. GRAY, M. A., Household, Personal and Fine Arts	12-31-51	1-2-52	659

Total number of trade-mark applications awaiting action (including renewals and republications), 14,418. Date of oldest new application, Oct. 1, 1951; date of oldest amended application, Oct. 1, 1951.

TRADE-MARK EXAMINING DIVISIONS, EXAMINERS AND TRADE-MARK CLASSES UNDER EXAMINATION	Oldest new application and oldest action by applicant awaiting Office action		Applications awaiting action
	New	Amended	
I. BARBOUR, H. E., Classes 1, 4, 5, 6, 9, 10, 11, 12, 15, 16, 18, 27, 28, 29, 30, 33, 35, 44, 50, 51, 52	10-1-51	10-1-51	3811
II. SUMMERS, G. S., Classes 13, 14, 19, 21, 22, 23, 24, 25, 26, 31, 34	10-21-51	10-21-51	3149
Renewals (All Classes)	2-12-52	3-8-52	722
Republications (All Classes)	3-1-52	3-8-52	175
III. RACKNOR, M., Classes 3, 7, 8, 17, 20, 32, 37, 38, 39, 40, 41, 42, 43, 45, 47, 48, 49	11-1-51	10-17-51	3309
IV. KEYS, O. M., Classes 2, 36, 46, and Service Mark Classes 100, 101, 102, 103, 104, 105, 106, 107	10-1-51	10-2-51	3252

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

FRED H. MOORE (HILLTOP LABORATORIES, INC., ASSIGNEE, SUBSTITUTED)

v.

THE PROCTER & GAMBLE COMPANY

No. 5817. Decided December 18, 1951

[193 F.2d 194; 92 USPQ 137]

1. TRADE-MARKS—OPPOSITION—MARK ABBREVIATION OF SURNAME OF ORIGINAL OWNER.

Where appellant contends that a portion of its mark is an abbreviation of the surname of the original owner of the mark, *Held* that the applicable rule was stated in *Waterman Co. v. Modern Pen Co.*, 235 U. S. 88, 210 O. G. 1065, to the effect that under such circumstances the later competitor must take reasonable precautions to prevent mistake by the public.

2. SAME—GOODS OF SAME DESCRIPTIVE QUALITIES—SIMILARITY OF USE AND TRADE CHANNELS ARE FACTORS OF SUBSTANTIAL WEIGHT.

The facts that the goods of both parties are related to cleanliness and are sold in the same channels of trade to the same class of purchasers is not sufficient of itself to endow the goods with the same descriptive qualities, but is a factor which must be given substantial weight.

3. SAME—SAME—CONFUSION AS TO ORIGIN IS DETERMINING FACTOR.

It is not the difference in the competing goods which causes the likelihood of confusion, it is the similarity of the marks which are attached to the packaged goods leading one to believe that they have a common source of origin.

4. SAME—CONFUSION OF THE PUBLIC—"DUZ" AND "DUZ MOR."

The decision of the Commissioner of Patents holding that there would be reasonable likelihood of confusion as to the origin of the goods of the respective parties is affirmed.

APPEAL from Patent Office, Opposition No. 26,782.

AFFIRMED.

Parry, Miller & Peverill (*Edmund H. Parry, Jr.*, of counsel) for appellant.

Allen & Allen (*Erastus S. Allen* of counsel) for appellee.

O'CONNELL, *J.*:

This is an appeal from the decision of the Assistant Commissioner of Patents, 85 USPQ 176, acting for the Commissioner in an opposition proceeding instituted by appellee, owner and prior user of the mark "Duz," together with the slogan "Does More," against the registration of appellant's mark "Duz Mor."

"Duz Mor" has been used since March of 1943 by appellant or its assignor in the sale in packages of louse powder for poultry, livestock and dogs. Appellee's mark on the other hand has been registered since September 21, 1920, and used by appellee or its predecessors, continuously and exclusively, in the sale of pulverant or granulated soap in packages for general laundry purposes designed primarily to clean towels, garments, linens, dishes, household utensils, appliances, woodwork, etc.

Appellee took testimony and by its witnesses and documentary evidence established, in connection with the use of "Duz" on the packages, that appellee has likewise used in a trade-mark sense, or analogous thereto, the collateral term "Does More" not only on the packages themselves but also in nation-wide advertising, including nationally-known magazines, the press, and the radio. Appellee, by the expenditure of tens of millions of dollars in recent years for advertising, as hereinbefore described, has caused its trade-mark "Duz," the collateral slogan "Does More" and the product to which they are attached to become familiar household items in town and country throughout the nation.

In fact, it was established by appellee's evidence that appellee's goods were also effectively used, according to unsolicited testimonial letters from customers, read from time to time over appellee's network broadcasts, for washing dogs, cats, and livestock, thereby ridding them of ticks, fleas and lice; and as a spray for eliminating bugs, lice, and aphids from vegetable and flower gardens.

The annual sales of appellee's product for some years past have averaged in excess of one hundred and fifty million packages.

Appellee asserted various other registrations applied to its product, including the mark "Duz," republished by the Commissioner of Patents March 30, 1948, under section 12(c) of the Trade-Mark Act of July 5, 1946; the registration "Duzitall," dated June 24, 1890, and the registration "Duz-Win," dated August 29, 1916. The last two registrations have been renewed by appellee but were not pleaded in its notice of opposition, filed October 1, 1947, and hence need not be further discussed here.

The appearance and etymology of the competing marks here in issue, and appellee's slogan "Does More," are shown in large, bold face type. With

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appellant's application there was submitted a specimen of the mark "Duz Mor," used by its assignor, which specimen contains the impressive warning that an ingredient of the applicant's goods consists of DDT, a toxic poison which may be absorbed through the skin, especially from solutions, and providing therefor various directional antidotes.

[1] Appellant also disclosed in the record that the suffix "Mor" in its mark "Duz Mor" is an abbreviation of the surname "Moore" which the original owner of the mark used upon a variety of goods On that phase of the case, however, the law was stated by Mr. Justice Holmes in *Waterman Co.* v. *Modern Pen Co.*, 235 U. S. 88 at page 94, 210 O. G. 1065, to the following effect:

> But, whatever generality of expression there may have been in the earlier cases, it now is established that when the use of his own name upon his goods by a later competitor will and does lead the public to understand that those goods are the product of a concern already established and well known under that name, and when the profit of the confusion is known to and, if that be material, is intended by the later man, the law will require him to take reasonable precautions to prevent the mistake.

The Examiner of Trade-Mark Interferences dismissed the opposition October 31, 1949, on the stated ground that the goods of the competing parties were not merchandise of the same descriptive properties. The Acting Commissioner of Patents reversed that decision April 27, 1950, and the primary question raised by the reasons of appeal is whether there would be any reasonable likelihood of confusion as to the origin of the goods under section 5 of the Trade-Mark Act of 1905 should the parties concurrently use their marks on the merchandise here involved.

The pertinent provisions of the Trade-Mark Act of 1905 in the instant case read as follows:

> SEC. 5. That no mark by which the goods of the owner of the mark may be distinguished from other goods of the same class shall be refused registration as a trade-mark on account of the nature of such mark * * * *Provided*, That trade-marks which are identical with a registered or known trade-mark owned and in use by another * * *, or which so nearly resemble a registered or known trade-mark owned and in use by another and appropriated to merchandise of the same descriptive properties as to be likely to cause confusion or mistake in the mind of the public or to deceive purchasers shall not be registered * * *.

What constitutes "merchandise of the same descriptive properties" under the foregoing provisions of the act of 1905 has been the subject of wide variance of opinion and conflict of judicial decisions throughout the nation. Courts have swung first one way and then another. The term in fact has been such a source of bewilderment in trade-mark law that it was wholly and purposely eliminated by Congress in the enactment of the Trade-Mark Act of July 5, 1946.[1]

Appellee's uncontroverted evidence established, in addition to that which has been set forth hereinbefore, that

> DUZ is sold on a broad scale throughout the United States and is in general distribution in practically every retail grocery store in this country. Also in numerous drug, department and variety stores. Many of the retail grocery stores, particularly in rural areas, are general stores that handle practically everything farm homes need for personal requirements.

[2] The fact that the opposer's product and that of the applicant are both related to cleanliness and both are sold in the same channels of trade to the same class of purchasers does not of itself endow the goods on which the competing marks are used with the same descriptive properties.[2] Nevertheless, under a long line of established authorities, too numerous to recite here, the fact that they are sold in the same establishments throughout the country is a factor, accompanied by the other circumstances of the case, which must be given substantial weight.[3]

The Court of Customs and Patent Appeals has held that the terms "same class" and "same descriptive properties" as used in section 5 of the Trade-Mark Act of 1905 are synonymous in their meaning.[4] This court has further pointed out that: "Obviously, merchandise of contending parties may be dissimilar, and yet the trade-marks thereon may so nearly resemble each other as to cause, when the merchandise is sold to the general public, confusion and mistake, and to make deceit an easy matter of accomplishment"[5] for the newcomer.

Therefore, this court has laid down the rule that the words "same class" and "same descriptive properties" were intended to be given a limited or an extended meaning and application depending on whether or not the use of identical or similar trade-marks would be likely to cause confusion in the mind of the public or to deceive purchasers as to the origin of the goods[6]; and that there is always more likelihood of confusion relative to the sale of merchandise where all of a previously registered trade-mark has been appropriated by the newcomer if the trade-mark, such as we have here, is arbitrary in character.[7]

[3] We have likewise held by a unanimous decision that in legal contemplation, goods are of the same descriptive properties if the use of the same mark on the involved varieties of packaged merchandise would suggest to the purchaser that they have the same source of origin; that is, that they were made or sold by the same concern and came from the same place.[8] In other words, it is not the difference in the competing goods in cases like this that causes the likelihood of confusion; it is the similarity of the marks which are attached to the packaged goods leading one to believe that they have a common source of origin.

Purchasers of inexpensive goods such as washing and cleaning compounds are not expected to exercise the degree of care and discrimination in making their purchases as would be exercised in the selection by them of more expensive and rarely purchased articles.[9] Having taken no testimony, appellant failed to establish that it had spent anything whatever in advertising its goods. Even so, there was no legal requirement on the part of purchasers under the trade-mark law to make a side-by-side comparison of the goods and the competing marks in issue, had they known of appellant's product and trade-mark.[10]

Moreover, in view of the poison contained in appellant's product, the protection of the public interest should be here considered in resolving any existing doubt against the registration of the newcomer's mark. Under such circumstances, this court is interested in seeing not only that the purchaser makes no mistake himself, but also that he is not led into confusion or mistake by error of the clerk or grocer involved in the transaction.[11]

Not only was appellee's trade-mark "Duz" appropriated in its entirety but appellee's slogan "Does More," phonetically spelled, was particularly appropriated by appellant. The law is thoroughly established in this jurisdiction that an opposer to the registration of a newcomer's trade-mark is entitled to rely not only upon his own previously registered trade-marks, but also upon established trade-names, slogans, and designs analogous to a trade-mark use.[12]

The involved goods under the authorities hereinbefore cited are unquestionably, as the Acting Commissioner properly held, broadly of the same general class and are goods of the same descriptive properties. Appellant has contended, however, that appellee by its proof has shown no actual damage. It is elementary that, in an opposition proceeding, the issue does not require proof of damage as a result of actual confusion but only that the likelihood of confusion may exist. Moreover, as Judge Learned Hand, on the point in question, stated in *Yale Electric Corporation* v. *Robertson*, 26 F.2d 972, 974:

> However, it has of recent years been recognised that a merchant may have a sufficient economic interest in the use of his mark outside the field of his own exploitation to justify interposition by a court. His mark is his authentic seal; by it he vouches for the goods which bear it; it carries his name for good or ill. If another uses it, he borrows the owner's reputation, whose quality no longer lies within his own control. This is an injury, even though the borrower does not tarnish it, or divert any sales by its use; for a reputation, like a face, is the symbol of its possessor and creator, and another can use it only as a mask. And so it has come to be recognized that, unless the borrower's use is so foreign to the owner's as to insure against any identification of the two, it is unlawful. * * *

In view of the conclusion hereinbefore expressed, it is deemed unnecessary to discuss other points raised by the reasons of appeal or in the argument of counsel for the respective parties. [4] Therefore, the decision of the Commissioner of Patents, for the reasons stated, is affirmed.

AFFIRMED.

GARRETT, *Chief Judge*, concurs in the conclusion.

JOHNSON and WORLEY, *Judges*, dissent.

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[1] For a valuable and concise discussion of the "bugbear" term "merchandise of the same descriptive properties," the present status of the law under the act of 1905, and why Congress abolished its use in the act of July 5, 1946, see the decision of Federico, Examiner-in-Chief, acting for the Commissioner of Patents, in the recent case of *Greyhound Corp.* v. *Robinson Houchin Corp.*, 89 USPQ 621, 624–625.

[2] *Kraft-Phenix Cheese Corp.* v. *Consolidated Beverages, Ltd.*, 27 CCPA (Patents) 803, 107 F.2d 1004; 44 USPQ 41, 514 O. G. 827.

[3] See, for example, *Forst Packing Co., Inc.* v. *Antrim & Sons*, 28 CCPA (Patents) 1005, 118 F.2d 576, 49 USPQ 64, 529 O. G. 514; *C. E. Langfield* v. *Solvit-All Corporation*, 18 CCPA (Patents) 1313, 1315, 49 F.2d 480, 9 USPQ 216, 411 O. G. 819; *Philadelphia Inquirer Co.* v. *Coe*, 133 F.2d 385, 552 O. G. 188; certiorari denied, 318 U. S. 793; *Yale Electric Corporation* v. *Robertson*, 26 F.2d 972; *L. E. Waterman Co.* v. *Gordon*, 72 F.2d 272.

[4] *Cheek-Neal Coffee Co. et al.* v. *Hal Dick Mfg. Co.*, 17 CCPA (Patents) 1103, 1104, 40 F.2d 106, 5 USPQ 55, 395 O. G. 10.

[5] *The I. E. Palmer Co.* v. *Nashua Manufacturing Co.*, 17 CCPA (Patents) 583, 586, 34 F.2d 1002, 3 USPQ 46, 389 O. G. 533.

[6] *The B. F. Goodrich Co.* v. *Clive E. Hockmeyer et al.*, 17 CCPA (Patents) 1068, 1075, 40 F.2d 99, 5 USPQ 30, 394 O. G. 795.

[7] *Lever Brothers Co.* v. *The Sitroux Co.*, 27 CCPA (Patents) 858, 109 F.2d 445, 44 USPQ 357, 516 O. G. 539.

[8] *Rice-Stix Dry Goods Co.* v. *Industrial Undergarment Corp.*, 33 CCPA (Patents) 813, 152 F.2d 1011, 68 USPQ 186, 584 O. G. 490. See also *Greyhound Corp.* v. *Robinson Houchin Corp.*, 89 USPQ 621 at 624.

[9] *Lever Brothers Co.* v. *Riodela Chemical Co.*, 17 CCPA (Patents) 1272, 41 F.2d 408, 5 USPQ 152, 398 O. G. 356.

[10] *Celanese Corp. of America* v. *Vanity Fair Silk Mills*, 18 CCPA (Patents) 958, 47 F.2d 373, 8 USPQ 232, 407 O. G. 579; *Magitex Co., Inc.* v. *John Hudson Moore, Inc.*, 33 CCPA (Patents) 956, 154 F.2d 177, 69 USPQ 133, 588 O. G. 192; Unfair Competition and Trade-Marks, by Harry D. Nims, Fourth Edition, 1947, page 1024.

[11] *Hoffman-La Roche, Inc.* v. *Roch D. Kawerk, etc.*, 32 CCPA (Patents) 954, 148 F.2d 557, 65 USPQ 218, 575 O. G. 567; *Schering & Glatz, Inc.* v. *Sharpe & Dohme, Inc.*, 32 CCPA (Patents) 827, 833, 146 F.2d 1019, 64 USPQ 394, 572 O. G. 542.

[12] *Cheek-Neal Coffee Co. et al.* v. *Hal Dick Mfg. Co.* [Good to the Last Drop], 17 CCPA (Patents) 1103, 1104, 40 F.2d 106, 5 USPQ 55, 395 O. G. 10; *Central Iron & Steel Co.* v. *Republic Steel Corp.*, 26 CCPA (Patents) 1091, 102 F.2d 899; 41 USPQ 276, 507 O. G. 231; *Lucky Heart Laboratories, Inc.* v. *Morton G. Neumann*, 33 CCPA (Patents) 1034, 154 F.2d 519, 69 USPQ 393, 590 O. G. 10.

PATENT SUITS

Notices under 35 U. S. C. 70; sec. 4921, R. S.

1,840,573. (See 2,040,947.) 1,893,135. (See 2,040,947.)

2,000,120, E. R. Bush, Stain and related composition; 2,000,121, same, Wood stain, filed Feb. 4, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c248, *Chadeloid Corp.* v. *Stille-Young Corp.* Doc. 52c249, *Chadeloid Corp.* v. *V. J. Dolan & Co., Inc.*

2,000,121. (See 2,000,120.)

2,040,947, O. W. & H. G. Mojonnier, Heat exchange; 2,129,473, same, Heat exchange elements; 2,147,912, H. G. Mojonnier, Heat exchange system; 2,169,054, J. J. Mojonnier, Liquid treating apparatus; 2,179,949, same, H. G. Mojonnier, Liquid treating plant; 2,211,514, B. G. Newhall, Heat exchanger; 2,249,846, T. Mojonnier, Distributor for heat exchangers; 2,425,826, W. Radtke, Heat exchanger; Re. 21,270 (of 1,840,573), 2,057,298, H. Feldmeier, Heat exchange device; 1,893,135, H. Feldmeier et al., same; 2,190,584, Feldmeier & Astle, same, filed Jan. —, 1952, D. C., N. D. Ill (Chicago), Doc. 52c106, *Cherry-Burrell Corp.* v. *Mojonnier Bros. Co.*

2,057,298. (See 2,040,947.) 2,129,473. (See 2,040,947.)

2,147,912. (See 2,040,947.) 2,169,054. (See 2,040,947.)

2,179,949. (See 2,040,947.) 2,190,584. (See 2,040,947.)

2,211,514. (See 2,040,947.) 2,249,846. (See 2,040,947.)

2,329,902, W. A. Hillenbrand, Mounting for a laterally extended table top; 2,346,919, same, Table construction; Des. 132,427, Des. 135,507, same, Over-bed table; Des. 132,953, same, Bracket for an over-bed table, D. C., W. D. Mich. (Grand Rapids), Doc. 1457, *Hill-Rom Co., Inc.* v. *Carrom Industries, Inc.* Consent decree for injunction Mar. 22, 1952.

2,346,919. (See 2,329,902.) 2,425,826. (See 2,040,947.)

2,509,972. (See Des. 158,041.)

2,512,995. (See Des. 158,041.)

2,516,774. (See Des. 158,041.)

2,563,134, A. Romolt, Handle for luggage; T. M. 513,963, H. L. Kotkins, Suit cases, hand bags, etc., filed Feb. 25, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c33, *National Leather Handle Co., Inc.* v. *Marshall Field & Co.*

Re. 21,270. (See 2,040,947.)

Des. 132,427. (See 2,329,902.)

Des. 132,953. (See 2,329,902.)

Des. 135,507. (See 2,329,902.)

Des. 158,041, J. Berger, Stroller; 2,512,995, same, Stroller having removable chair; Des. 158,069, L. Gottfried, Combined high chair and table; 2,516,774, same, Convertible high chair; 2,509,972, same, Chair and base therefor releasably secured thereto, filed Nov. 6, 1950, D. C. Mass. (Boston), Doc. 50875, *The Stroll-O-Chair Corp.* v. *Worcester Chrome Furniture Mfg. Co., et al.*

Des. 158,069. (See Des. 158,041.)

Des. 159,577, E. R. Barron, Child's boot; Des. 164,397, R. Alpert, Lady's overshoe, filed Mar. 26, 1952, D. C., E. D. Wis. (Milwaukee), Doc. 5533, *Alba Footwear, Inc.* v. *Lake States Footwear Co., Inc.*

Des. 164,397. (See Des. 159,577.)

TRADE-MARK SUITS

Notices under 15 U. S. C. 1116; act of July 5, 1946

T. M. 215,556, T. M. 233,407, T. M. 422,335, T. M. 510,992, Chanel, Inc., Perfume and toilet water, face powder, etc.; T. M. 400,004, T. M. 513,132, Chanel, Inc., Toilet soap, filed Jan. 25, 1952, D. C., N. D. Ill. (Chicago), Doc. 52c175, *Chanel, Inc.* v. *Federal Silver Corp.*, Doc. 52c178, *Chanel, Inc.* v. *Exclusive Import Co., Inc., et al.*

T. M. 233,407. (See T. M. 215,556.)

T. M. 334,107, Cat's Paw Rubber Co., Inc., Rubber heels and soles, etc.; T. M. 505,442, same, Rubber cement; T. M. 515,591, same, Strip material of natural and synthetic rubber, T. M. 516,408, same, Soles and heels of natural and synthetic rubber, filed Mar. 24, 1952, D. C., N. D. N. Y. (Utica), Doc. 4243, *Cat's Paw Rubber Co., Inc.* v. *General Insecticide Co., Inc.*

T. M. 400,004. (See T. M. 215,556.)

T. M. 422,335. (See T. M. 215,556.)

T. M. 505,442. (See T. M. 334,107.)

T. M. 510,992. (See T. M. 215,556.)

T. M. 513,132. (See T. M. 215,556.)

T. M. 513,963. (See 2,563,134.)

T. M. 515,591. (See T. M. 334,107.)

T. M. 516,408. (See T. M. 334,107.)

NOTICES

Erratum

All references to Patent No. 2,593,107 to Kenneth E. Coppock and Jesse D. Compton, assignors to General Motors Corporation, for Folding Top for Convertibles Having an Automatic Seal at the Rear Quarter, appearing in the OFFICIAL GAZETTE of April 15, 1952, should be deleted as the application was withdrawn from issue and the patent was not issued.

Rearrangement of Patents in The Official Gazette

The Commissioner of Patents, with the issue of July 1, 1952, will institute a rearrangement of the sequence of presentation of patents in the OFFICIAL GAZETTE. On that date and thereafter patents will appear in the OFFICIAL GAZETTE under three main headings, viz., General and Mechanical, Chemical, and Electrical. Within each main category patents will appear in numerical sequence by class and subclass. The patent number will be determined by the sequence within category by class and subclass of the particular patents in the issue of date.

The purpose of the proposed presentation is solely to enable and facilitate greater utilization of the OFFICIAL GAZETTE by the public and members of the patent law profession.

Consequent to the publication of patents in the OFFICIAL GAZETTE as outlined herewith, there will be a slight extension of time required to furnish the receipt for payment of final fee, and notice of patent number assigned, of from five to eight days, depending on the incidence of non-work days in the Office immediately after the payment of final fee. On the average, the issue date of a given patent will ordinarily be the fifth Tuesday after the closing Thursday, instead of the fourth Tuesday as it has been under the random order method of presenting patents in the OFFICIAL GAZETTE practiced heretofore.

Proposed Discontinuance of Publication of Abstracts of Applications

By Commissioner's Notice of January 25, 1949, 619 O. G. 258, a practice was instituted in the Patent Office whereby an applicant for patent could under certain circumstances, upon abandonment of his application, secure publication in the OFFICIAL GAZETTE of an abstract of the disclosure of the application.

The practice has not resulted in the benefits which were expected when it was initiated and has been taken advantage of in only a relatively small number of cases and by a relatively small number of applicants or assignees. Consideration is being given to the probable termination of the practice. Anyone interested in the retention or discontinuance of the practice is invited to submit his views in writing, addressed to the Commissioner of Patents, Washington 25, D. C., prior to October 1, 1952.

JOHN A. MARZALL,
Commissioner of Patents.

April 4, 1952

Adverse Decisions in Interferences

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed.

Pat. 2,482,452, D. Alpert, Concentric line cavity resonator, decided Mar. 28, 1952, claims 1, 4, 6, 7, and 8.

Pat. 2,483,372, J. W. Payne, Heavy gravity liquid separation of porous catalyst, decided Jan. 14, 1952, the claim.

Pat. 2,508,029, W. F. Kannenberg, Relay circuit, decided Mar. 20, 1952, claim 1.

Pat. 2,405,682, B. Bogoslowsky, Container, decided Jan. 21, 1952, claim 1.

Adjudicated Patents

(C. A. Mich.) Scott Patent No. 2,106,329, for an apparatus for treating materials. Claims 1 and 6 *Held* invalid. *Whitman et al.* v. *Andrus et al.*; *Andrus et al.* v. *Whitman et al.*; *Besser Manufacturing Company* v. *Whitman*, 194 F.2d 270; 92 USPQ 291.

(C. A. Mich.) Gelbman, Olsen, and Mays Patent No. 2,275,676, for a concrete block machine. Claims 1 to 4 *Held* invalid. *Id.*

(C. A. Mass.) Levkoff Patent No. 2,342,551, for a folding paper box. Claim 4 *Held* invalid. *Associated Folding Box Co., Inc., et al.* v. *Levkoff et al.*, 194 F.2d 252; 92 USPQ 193.

(C. A. Mich.) Gelbman, Olsen, and Mays Patent No. 2,366,780, for a method for making building blocks. Claims 1 and 2 *Held* invalid. *Whitman et al.* v. *Andrus et al.*; *Andrus et al.* v. *Whitman et al.*; *Besser Manufacturing Company* v. *Whitman*, 194 F.2d 270; 92 USPQ 291.

(D. C. Calif.) Hunter, Hunter, and Martin Patent No. 2,503,824, for a method for rolling strip material, *Held* invalid and not infringed. *Hunter Douglas Corporation* v. *Lando Products, Inc.*, 102 F. Supp. 635; 92 USPQ 202.

(D. C. Calif.) Jewell, Calder, and Springfield Patent No. 2,530,700, for a pressure pipe joint. Claims 9 and 10 *Held* valid and infringed. *Joints, Inc.* v. *Garrett*, 102 F. Supp. 760; — USPQ —.

Joint Applicants—Order of Names

In joint applications, where the "Single Signature Form" is used, as provided for in Rule 58, the signatures thereto should be in the same order as the typewritten names. Where the "Single Signature Form" is not used, the signatures to the specification should be in the same order as the typewritten names in the body of the papers. The order of names of joint patentees in the heading of the patent is taken from the order in which the typewritten names appear in the application papers. Care should be exercised in selecting the order of typewritten names before filing, as requests for subsequent shifting of the names would entail changing numerous records in the Office. Since the particular order in which the names appear is of no consequence insofar as the legal rights of the joint applicants are concerned, no changes will be made except by permission of the Commissioner. It is suggested, at the time of filing, that the names of joint applicants appear in alphabetical order for facilitating filing and record keeping in the Office.

M. C. ROSA,
Executive Examiner.

Apr. 4, 1952.

Instruments Submitted for Recording

In view of the fact that assignments or other instruments submitted for recording are photostated for record purposes in the Patent Office, it is important that these instruments be submitted in such a form that they may be readily photostated and yield a good, clear reproduction. The various sheets making up the instrument should be stapled, ribboned or otherwise secured together in such a manner that it will not be necessary to take the papers apart for photostating. Care should be observed that seals are applied to the instrument in such a manner as not to obscure signatures or other matter on the papers.

M. C. ROSA,
Executive Examiner.

Apr. 7, 1952.

Brief Descriptive Paragraph for Each Figure of Drawing

In the brief description of the drawings required by Rule 74, each figure or view should be referred to in a separate paragraph. This arrangement would greatly assist the Office in determining if all the figures as described have been included in the drawings and whether the drawings accompanying an application properly belong therewith.

M. C. ROSA,
Executive Examiner.

Apr. 8, 1952.

Application Papers—Manner of Securing Together

In view of the fact that application papers are microfilmed at the time of filing, it is important that the papers be readily separable to expedite the processing thereof for this purpose. Therefore, in the case of domestic applications, it is desirable that the use of staples or eyelets be avoided as their removal is often difficult and time-consuming. It is suggested that the papers constituting such applications be bound together only in the upper left hand corner by means of a round head paper fastener.

M. C. ROSA,
Executive Examiner.

Apr. 9, 1952.

Application Papers—Size of Paper

In order to carry out the microfilming of applications for patents expeditiously and efficiently, it is important that the size of papers employed conform to the dimensions set forth in Rule 52(b), which reads as follows:

"The specification and claims, and also papers subsequently filed, must be plainly written on but one side of the paper. A wide margin must be reserved on the left-hand side and on the top of each page and the lines must not be crowded too closely together. Legal paper, 8 to 8½ by 12½ to 13 inches, typewritten and double spaced with margins of one and one-half inches on the left-hand side and top is deemed preferable. Typewritten or printed papers suitable for use by the Office may be required if the papers originally filed are not correctly, legibly and clearly written."

M. C. ROSA,
Executive Examiner.

Apr. 10, 1952.

Application Papers—Backing Sheets Not Necessary

Application papers should be submitted without backing sheets since such sheets serve no useful purpose in the file record and are therefore destroyed.

M. C. ROSA,
Executive Examiner.

Apr. 11, 1952.

Cancellation Notice

Maryland Lime & Fertiliser Corp., its assigns or legal representatives, take notice:

A petition for cancellation having been filed in this Office by J. L. Heinl, at 1800 North Cove Blvd., Toledo, Ohio, to effect the cancellation of trade-mark registration of Maryland Lime & Fertiliser Corp., Hopewell Road, R. F. D. 3, Hagerstown, Maryland, No. 443,103, dated July 19, 1949, and the notice of such proceeding sent by registered mail to the said Maryland Lime & Fertiliser Corp., at the said address having been returned by the post office undeliverable, notice is hereby given that unless said Maryland Lime & Fertiliser Corp., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Apr. 29, 1952.)

ERNEST F. KLINGE,
Assistant Commissioner of Patents.

Apr. 8, 1952.

Interference Notice

Leon P. Anthony, his assigns or legal representatives, take notice:

An interference has been declared by this Office between Patent No. 2,394,738, granted February 12, 1946, to Leon P. Anthony, 3016 Dalton Avenue, Los Angeles 7, California, and the application for patent of Albert H. Winkler, 401 North Bendix Drive, South Bend 20, Indiana, and a notice of such declaration sent by registered mail to said Anthony at the said address has been returned by the Post Office as undeliverable. Said notice was then reforwarded by registered mail to Anthony c/o North American Aviation Corp., 5601 West Imperial Blvd., Inglewood, California, the address supplied by counsel for Anthony, but was again returned by the Post Office as undeliverable. This Office therefore has been unable to secure service upon the party Anthony. Notice is hereby given that unless said Anthony, his assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the interference will be proceeded with as in case of default.

This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks. (Date of first publication—Apr. 29, 1952.)

Apr. 4, 1952. THOMAS F. MURPHY, *Assistant Commissioner.*

Disclaimers

2,530,065.—*John A. King,* Albany, N. Y. SERINE SYNTHESIS. Patent dated Nov. 14, 1950. Disclaimer filed Mar. 28, 1952, by the assignee, *Sterling Drug Inc.*

Hereby enters this disclaimer of formylamino from the scope of the acylamino group of claims 1, 2, 8, and 10 of said patent.

2,562,915.—*Conrad H. Hoeppner,* Washington, D. C., *Henry R. Murphy,* Providence, R. I., and *Neil Clark, Jr.,* U. S. Navy. DOUBLE PULSE DISCRIMINATOR. Patent dated Aug. 7, 1951. Disclaimer filed Mar. 25, 1952, by the inventors.

Hereby enter this disclaimer to claim 6 of said patent.

REGISTER OF PATENTS AVAILABLE FOR LICENSING OR SALE

(The "Groups" appearing after the patent abstracts are based on the Standard Industrial Classification Manual, Vol. I, Manufacturing Industries, Executive Office of the President, Bureau of the Budget)

Pat. 2,561,035. Machine Tool. Patented July 17, 1951. Machine tool is adapted to operate on successive work pieces and to form successive pieces of work from bar stock material without a stop for the work pieces as ordinarily employed, and without special feeding and discharging mechanism. A supporting base has a motor-driven cam shaft for reciprocating a carriage toward and away from a housing. A primary spindle in housing and a secondary spindle in carriage are rotatable on aligned axes and are hollow for the passage of work pieces therethrough. Slides on base have slots for receiving cutting tools. The cam shaft is rotated at such a speed as will cause independently operable collets of the spindles to grip or release a work piece and move the slides and carriage back and forth in timed relation so that the tools may act on the work pieces. (Owner) Edmund J. Robichaud. Correspondence to Ross & Ross, 1387 Main St., Springfield, Mass. Group 35—41—69. Reg. No. 47,366.

Pat. 2,572,165. Floating Hoist. Patented Oct. 23, 1951. Floating hoist compensates for wave-induced motion of a ship to permit diving operations under adverse weather conditions. A main boom pivoted to upper end of a mast supported on deck of ship swings in a vertical plane and carries an adjustable counter weight. An anchor is suspended from cables attached to the boom and to a hoisting drum. The cables run through guides on a diver's platform, which is suspended from a hoist line for use when diving in shallow water. An auxiliary boom mounted on the main boom carries a suspended diver's chamber for deep diving. The auxiliary boom may be longitudinally extended and swung laterally relative to main boom to enable a diver in the chamber to carry out sub-sea exploration over a considerable area. (Owner) John N. Locki, 4125A Shreve Ave., St. Louis 15, Mo. Groups 35—31—66; 37—31. Reg. No. 47,367.

Pat. 2,569,037. Releasable Lock for Electric Plugs. Patented Sept. 25, 1951. Device for releasably locking an electrical appliance cord plug or plugs to a wall plate outlet socket. Device has a special screw member for connection in the central aperture of the wall plate in place of the usual screw. A locking post adjustably threaded on the outer enlarged end of the screw member is formed with a series of spaced apart discs. A pair of locking plates are notched to slidably engage the post between any pair of discs. Outer ends of locking plates are also notched to slidably receive the electric cord and clamp the plug between the locking plates and wall plate. (Owner) John J. Dalton, 909 North M St., Lake Worth, Fla. Group 36—11. Reg. No. 47,368.

Pat. 2,564,557. Railway Vehicle Rerailer. Patented Aug. 14, 1951. A railway vehicle rerailer for mounting on a cross tie alongside a railroad rail. A body has grooves along its under side which fit over the flanges of a railroad rail. A projection on the body fits in recess between the ball and flange of the rail and extends from end to end of the rerailer. Projection at bottom of body intermediate the ends extends outwardly over the cross tie and has openings for receiving railroad spikes to secure the rerailer to the cross tie. (Owner) Leonard C. Bain, 4904 3d Ave. South, Birmingham, Ala. Group 33—12. Reg. No. 47,369.

Pat. 2,485,169. Multiple Socket Wrench. Patented Oct. 18, 1949. Socket wrench has a series of concentric tubular shanks which terminate in nested sockets of graduated sizes for engaging a series of bolts. An axial tubular spindle has a flanged lower end retaining the innermost socket. Upper end of spindle is enlarged and secured to outermost shank and has a series of shoulders which are aligned with the shanks and form seats for springs. (Owner) Conrad W. Roeschke, 3032—33d Place, Sandia Base Branch, Albuquerque, N. Mex. Groups 33—52; 35—69. Reg. No. 47,370.

Pat. 2,499,503. Alkali-Metal Pentaalkyl Tripolyphosphates as Stabilizers for Vinyl Resins. Patented Mar. 7, 1950. A plasticized resinous copolymer of vinyl chloride and vinyl acetate is stabilized against discoloration and fabric-rotting upon exposure to light or to elevated temperatures, by admixture with a penta alkali-metal tripolyphosphate. The tripolyphosphate is neutral in reaction when dissolved in distilled water and produces a strong, clear film useful as a fabric coating. The stabilizer may also be incorporated in molding compositions and in stocks to be processed in other ways. Formulas are given in patent. (Owner) United States Rubber Company, Rockefeller Center, 1230 Avenue of the Americas, New York 20, N. Y. Groups 22—31; 28—83. Reg. No. 47,371.

Pat. 2,447,211. Dual Combustion System for Combustion Tube Burners. Patented Aug. 17, 1948. Reg. No. 47,372.

Pat. 2,464,895. Dual Combustion System for Combustion Tube Burners. Patented Mar. 22, 1949. Reg. No. 47,373.

These two patents relate to liquid fuel burners for use in the fire box of a household range, water heater, or the like. Each burner includes a base having various channels and upwardly extending perforated sleeves arranged to provide inner and outer systems of cooperating components to the end that the systems are independently operable, or may be operated simultaneously. The inner system may be used for cooking purposes, and the outer system used for space heating or for heating an adjacent water coil. (Owner) Edward Rousseau, 66 Mathewson St., Jewett City, Conn. Group 33—62—63—65.

Pat. 2,574,839. Spectacle Lens Mount. Patented Nov. 13, 1951. Ornamental spectacle frame of plastic or other moldable material removably supports the lenses so wearer may remove the lenses and insert in other frames to match various costumes, without the use of tools. The frame rings have flanges against which the lenses are seated. The inner perimeters of the rings are beveled outward slightly from the flanges to permit free insertion and removal of the lenses. Three spaced U-shaped lens-retaining resilient members are provided in each lens opening, the free ends of which are adapted to frictionally engage the beveled lens edges and lock the lens in position. (Owner) Harold H. Pelser, 17 John St. (Suite 807), New York, N. Y. Group 39—14—81. Reg. No. 47,374.

Pat. 2,579,263. Cot. Patented Dec. 18, 1951. Folding cot has a tightly stretched canvas supported on springs in such a way that when the cot is opened a series of springs yieldably tension the canvas. An extensible frame has lazy tong side members with an eyelet on each joint. A canvas stretched lengthwise of frame has a series of spaced pairs of grommet holes along each side, opposite the eyelets. A spring is attached to each eyelet and pair of holes to cause tensioning of the springs when cot is open for use. A headboard forms an extension of the sleeping surface when cot is open and folds over the canvas when cot is closed, forming a small compact package. (Owner) Curt W. Kroha, Fort Walton, Fla. Group 25—11—14—19. Reg. No. 47,375.

Pat. 2,575,634. Smoker's Pipe Cleaner. Patented Nov. 20, 1951. Smoker's pipe-cleaning device has a pair of double-edged scraper blades adjustable to fit the tobacco-retaining cavities of pipe bowls of different sizes. A feature of the invention is that it can be attached to ash trays, the pipe-cleaning blades being so positioned that the ashes and dottle from the pipe bowl will fall into the ash tray as the pipe bowl is being cleaned. Adjustable clamping elements permit the device to be attached to ash trays of various widths. A single clamping action permits adjustment of both the scraper blades and the clamping elements. (Owner) Allan Marshall, 4830 Magoun Ave., East Chicago, Ind. Groups 32—29—39; 34—41; 39—81; 40. Reg. No. 47,376.

General Electric Company offers the following patents for non-exclusive licensing on reasonable terms, to domestic manufacturers. Applications for license may be addressed to the Manager, Patent Services Department, General Electric Company, 1 River Road, Schenectady, N. Y.

THE MAJORITY OF THE FOLLOWING 37 PATENTS RELATE TO THE FIELD OF X-RAY. Included among the remaining patents are: An aircraft cabin supercharger for regulating pressure in the cabin; a sear mechanism for automatic guns; a heat exchange apparatus for aeroplanes; a brazing alloy for high nickel alloys; an engine turbine compressor unit; a throttling arrangement for controlling the flow of air to the compressor of a gas turbine unit; an electric system for the amplification of a unidirectional voltage, such as a furnace control system; a process for manufacturing mirrors; a method and apparatus for measuring small vapor pressures; a method of making coils for dynamoelectric machines. Reg. Nos. 47,377 through 47,413.

Pat. 2,039,908. X-Ray System. May 5, 1936. Group 36—92.

Pat. 2,049,300. X-Ray Device. July 28, 1936. Group 36—92.

Pat. 2,058,992. Safety Device for X-Ray Apparatus. Oct. 27, 1936. Group 36—92.

Pat. 2,064,662. X-Ray Device. Dec. 15, 1936. Group 36—92.

Pat. 2,088,424. X-Ray Device. July 27, 1937. Group 36—92.

Pat. 2,111,412. X-Ray Apparatus. Mar. 15, 1938. Group 36—92.

Pat. 2,112,746. X-Ray Tube. Mar. 29, 1938. Group 36—92.

Pat. 2,113,422. Electron Discharge Device. Apr. 5, 1938. Group 36—92.

Pat. 2,141,924. Electrical Discharge Device. Dec. 27, 1938. Group 36—92.

Pat. 2,145,727. High Voltage Discharge Apparatus. Jan. 31, 1939. Group 36—92.

Pat. 2,149,093. Method and Apparatus for X-Ray Production. Feb. 28, 1939. Group 36—92.

Pat. 2,149,103. Hard Solder. Feb. 28, 1939. Group 34—39.

Pat. 2,151,602. X-Ray Apparatus. Mar. 21, 1939. Group 36—92.

Pat. 2,160,605. Regulating System. May 30, 1939. Group 36—92.

Pat. 2,168,166. Heat Exchange Apparatus. Aug. 1, 1939. Group 37—22.

Pat. 2,199,959. Stereoscopic Apparatus. May 7, 1940. Group 36—92.

Pat. 2,205,297. X-Ray Tube. June 18, 1940. Group 36—92.

Pat. 2,217,483. X-Ray Apparatus. Oct. 8, 1940. Group 36—92.

Pat. 2,226,288. System for Amplification of Direct Voltages. Dec. 24, 1940. Group 36—19.

Pat. 2,245,163. Power Plant for Aircraft. June 10, 1941. Group 37—22.

Pat. 2,248,630. X-Ray Screen. July 8, 1941. Group 39—12—92.

Pat. 2,292,859. X-Ray Tube. Aug. 11, 1942. Group 36—92.

Pat. 2,307,612. High Voltage Apparatus. Jan. 5, 1943. Group 36—92.

Pat. 2,362,816. Electrical Discharge Device. Nov. 14, 1944. Group 36—92.

Pat. 2,405,477. Ray-Generating Apparatus. Aug. 6, 1946. Group 36—92.

Pat. 2,410,733. Method of Making Mechanically Resistant and Highly Reflecting Metallic Films. Nov. 5, 1946. Groups 32—31; 33—75; 39—13.

Pat. 2,413,565. Vapor Pressure Measurement. Dec. 31, 1946. Group 39—11.

Pat. 2,424,491. Aircraft Cabin Supercharger Arrangement. July 22, 1947. Group 36—41.

Pat. 2,436,682. Sear Mechanism. Feb. 24, 1948. Group 33—X1—97.

Pat. 2,456,933. Brazing Alloy. Dec. 21, 1948. Group 34—39.

Pat. 2,493,606. X-Ray Apparatus. Jan. 3, 1950. Group 36—92.

Pat. 2,504,697. X-Ray Table for Patients. Apr. 18, 1950. Group 25—32.

Pat. 2,565,324. Gas Turbine With Throttling Air Turbine in Compressor Intake. Aug. 21, 1951. Group 35—61.

Pat. 2,567,561. Uniform Intensity Illumination for Viewing Boxes. Sept. 11, 1951. Group 36—19—92.

Pat. 2,570,101. Gearing Arrangement for Supercharged Power Plant. Oct. 2, 1951. Group 35—19.

Pat. 2,570,786. Method of Making Dynamoelectric Machine Windings. Oct. 9, 1951. Group 36—19.

Pat. 2,571,009. Control of X-Ray Generators. Oct. 9, 1951. Group 36—19—92.

THE FOLLOWING FOUR PATENTS RELATE TO: A handle for electric coffee makers; an electric protective apparatus for circuit interrupters used in connection with commutator type motors; a single bowl automatic coffee maker; and a motor speed governor for use in electric kitchen mixers and the like.

Pat. 2,137,884. Coffee Maker Handle. Nov. 22, 1938. Group 36—21. Reg. No. 47,414.

Pat. 2,227,125. Electric Protective Apparatus. Dec. 31, 1940. Group 36—19. Reg. No. 47,415.

Pat. 2,566,914. Single Bowl Coffee Maker With Spring-Biased Coffee Basket. Sept. 4, 1951. Group 36—21. Reg. No. 47,416.

Pat. 2,575,928. Motor Speed Governor. Nov. 20, 1951. Group 36—19—21. Reg. No. 47,417.

THE 3 PATENTS LISTED BELOW RELATE TO: A vacuum switch for high tension power circuits; a continuous reading dead-weight pressure gauge for precision measurement of fluid pressures; and a magnetic needle-positioning device for sewing machines.

Re. 21,087. Vacuum Switch. May 16, 1939. (Original No. 2,090,519, dated Aug. 17, 1937.) Group 36—19. Reg. No. 47,418.

Pat. 2,564,470. Continuous Reading Dead-Weight Pressure Gauge. Aug. 14, 1951. Groups 35—69; 36—13. Reg. No. 47,419.

Pat. 2,572,635. Sewing Machine. Oct. 23, 1951. Group 35—83. Reg. No. 47,420.

THE FOLLOWING 3 PATENTS RELATE TO: A device for making and breaking a current conducting connection between two spaced conductors; a load balancing system for electric valve translating apparatus; and a machine for trimming and removing braid from shielded wire and cable to prepare the ends for connection to electric circuits.

Pat. 2,571,794. Connecting Switch Device. Oct. 16, 1951. Group 36—19. Reg. No. 47,421.

Pat. 2,572,648. Electric Valve Translating System. Oct. 23, 1951. Group 36—19. Reg. No. 47,422.

Pat. 2,573,497. Machine for Trimming and Removing Braid From Shielded Wire and Cable. Oct. 30, 1951. Group 35—43. Reg. No. 47,423.

United States Government Owned Patent

The following patent is the property of the United States of America as represented by the Secretary of the Interior by virtue of an assignment from the inventors, Russell G. Dressler and John Russell Bircher. Non-exclusive and royalty-free licenses are available. Applications for license should be directed to the Solicitor, U. S. Department of the Interior, Washington 25, D. C.

Pat. 2,574,469. Method of Utilizing Aqueous-Organic Chemical Wastes From the Fischer-Tropsch Process. Patented Nov. 13, 1951. (Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.) This process may be practiced in connection with the production of synthetic liquid fuels from carbonaceous materials to effectively utilize the usual acid-contaminated waste waters resulting therefrom and at the same time eliminate problems for the disposal of such waste waters. The oxygenated chemicals in water solution, after condensing from the well known Fischer-Tropsch reaction, are separated by decantation from the hydrocarbon products and then topped in a fractionating column. The bottoms from the column, comprising acid-contaminated waste waters, are evaporated and superheated, and then introduced in the form of vapor into a gasifier to produce additional carbon monoxide and hydrogen. The resulting mixture is cycled back to the Fischer-Tropsch synthesis reactor as a supplemental source of raw material. Group 29—11—99. Reg. No. 47,424.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS

RENDERED DURING MARCH, 1952

EX PARTE ADA MILLING COMPANY, 173 Ms. D. 706, 92 USPQ 339, March 6, 1952.

Application was made to register on the Principal Register the mark "Startgrolay" for a poultry feed composition. The Examiner of Trade-Marks refused registration on the ground that the mark is generically descriptive of the goods and not capable of distinguishing applicant's goods. The Examiner also refused registration on the basis of a prior registration under the act of 1920, which discloses "Lay-an-Grow" for use on poultry food. *Examiner-in-Chief Federico* affirmed.

It was held that as applied to applicant's goods, the mark merely indicates that the feed in connection with which it is used is intended for or claimed to be a starting feed, a growing feed, and a laying feed; the mere juxtaposition and phonetic spelling do not create registrability; and the use of the words in the trade also suggests that the words are generic and common to the trade.

It was held that the applicant's mark incorporates the dominant parts of the reference mark "Lay-an-Grow" and is unregistrable thereover, since registration is sought on the Principal Register.

EX PARTE STYLOFEDE CORPORATION, 173 Ms. D. 703, 92 USPQ 388, March 6, 1952.

Application was made to register the word "Windsor" as a trade-mark for knitting needles on the Principal Register. The Examiner of Trade-Marks refused registration on the basis of section 2(e)3 of the Trade-Mark Act of 1946 which provides for the refusal of registration of a mark which is primarily merely a surname. *Examiner-in-Chief Federico* reversed, with leave to reopen the case to add other evidence if the Examiner so desires.

In response to applicant's contention that the word has a geographical meaning and various other meanings, it was held that the evidence submitted by both the applicant and the Examiner is not sufficiently complete to render a decision with any degree of accuracy, but on this evidence, supplemented by the United States Official Postal Guide, Windsor is primarily a geographical or place name rather than primarily a surname.

LOWELL NEEDLE CO. INC. (PUTNAM CO., Successor) *v.* H. & A. SELMER, INC., 173 Ms. D. 704, 92 USPQ 387, March 6, 1952, Cancellation No. 5458.

Registration disclosing the mark "Goldentone" used for reeds and mouthpieces of woodwind instruments was obtained on August 11, 1942, under the act of 1905, and was republished January 18, 1949, under section 12(c) of the Trade-Mark Act of 1946. Petition for cancellation was filed after republication. Petitioner alleged and proved prior use of the same mark on phonograph needles and no question has been presented as to the marks, which are identical, nor as to petitioner's priority of use. The Examiner held that the respective goods of the parties upon which the mark was used were goods of the same descriptive property and were such that confusion or mistake as to source or origin would be likely to arise, but dismissed the petition for cancellation on the ground that petitioner's failure to apply for cancellation earlier constituted such laches as to preclude petitioner from seeking cancellation, although the question of laches had not been raised in the answer and had not even been mentioned prior to the decision. Eight days after the date of hearing the appellant filed a withdrawal of its appeal, which withdrawal was approved by the appellee. *Examiner-in-Chief Federico* reversed.

It was held that the practice of the Patent Office in connection with inter partes appeals where the appellant has defaulted has been to affirm the decision below pro forma, or to dismiss the appeal, if no manifest error is found on a brief review of the decision appealed from; dismissal of the appeal is not mandatory and in the present case the appeal will not be dismissed but has been considered on the record and briefs and such oral presentation as was made by the appellee.

In response to registrant's contention that the goods are of different character, used for different purposes, and are not of the same descriptive property and that confusion or mistake would not be likely to arise, it was held that the Examiner's conclusion as to the relationship of the goods was right, although if there were any doubt on the matter, the doubt would be resolved against the respondent.

It was further held that after successfully protesting against the use of the mark on phonograph needles by one party, and protesting against the use of the mark on phonograph needles by the petitioner, the respondent's present arguments that the use of the mark on phonograph needles would not be likely to cause confusion or mistake as to origin can hardly be given much weight.

It was held that the Examiner should not have considered laches, particularly as it had not been raised, since laches is ordinarily not deemed applicable when the statute gives a definite period within which to take action and action is taken within the period specified by the statute; here the statute pro-

vides that any party having the appropriate interest may apply to cancel the registration within 5 years from the date of the republication.

EX PARTE QUAKER RUBBER CORPORATION, 173 Ms. D. 713, 92 USPQ 392, March 10, 1952.

Examiner-in-Chief Federico affirmed the decision of the Examiner of Trade-Marks refusing to register the word "Ebonite" as a trade-mark for belting, hose, sheet and rod packing made of rubber and fabric, and sheet rubber used for washers and gaskets, under the provisions of section 2(f) of the Trade-Mark Act of 1946 on the ground that the term "ebonite" is a generic term incapable of becoming distinctive of the products of a single manufacturer.

It was held that it is difficult to see how the name for hard rubber could properly be a trade-mark for goods made of rubber and it is not considered that applicant has sustained the heavy burden of so showing.

In response to applicant's assertion that the Patent Office has considered applicant's mark registrable on five different occasions, in connection with the issuing of three registrations and the renewing of two of them, it was held that, contrary to applicant's assertion, the propriety of a registration is not reexamined on renewal; two of the registrations referred to are of composite marks (which comprise the phrase "Daniel's Ebonite" and other matter), and the other registration referred to is an expired one.

THE B. F. GOODRICH COMPANY *v.* WALTER N. BOYSEN CO., 173 Ms. D. 710, 92 USPQ 389, March 10, 1952, Opposition No. 27,872.

Application was made under the Trade-Mark Act of 1905 for registration of the mark "Koro-Seal," with disclaimer of the descriptive word "Seal," for use upon sealer used alone or admixed with paint or oil and as a vehicle for metal powders in Class 16, Protective and decorative coatings. An opposition proceeding was instituted under the act of 1905 (section 47a of the Trade-Mark Act of 1946) based upon opposer's previously adopted and used mark "Koroseal," Registrations Nos. 337,286 and 336,849, as applied respectively to plasticized polymerized vinyl chlorides in Class 1, Raw or partly prepared materials, and sheet packing embodying plasticized polymerized vinyl chloride in Class 35, Belting, hose, machinery packing and non-metallic tires. Opposer also alleged use of its mark generally upon materials and products made from or containing plasticized polymerized vinyl chlorides, inclusive of liquid coating materials and articles of metal, wood, cloth, paper and the like impregnated or coated with the said liquid coatings. The Examiner of Interferences dismissed the opposition. *Examiner-in-Chief Federico* affirmed.

It was held that opposer could not rely upon any paint composition, that the sale of paint in 1935 was transitory, inconsiderable and experimental, and was abandoned, and that the later sporadic sales were of no consequence.

It was held that the present decision is without prejudice to any appropriate action brought under the act of 1946 insofar as the more flexible provisions of the new act, and the greater powers of the Commissioner, are concerned.

MOTOROLA, INC. *v.* JOSEPH W. JONES, 173 Ms. D. 716, 92 USPQ 390, March 10, 1952, Opposition No. 28,407.

Application was made under the Trade-Mark Act of 1905 for registration of the mark "Motrola" for use upon electric motors for winding phonograph spring motors. Opposition was filed, based upon opposer's use and registrations of the mark "Motorola," opposer owning Registration No. 275,837, in which the goods recited are radio receiving sets and parts thereof, and Registrations Nos. 399,935 and 400,049, in which the goods recited are radio receiving apparatus, combination radio receiving and electric phonograph sets, electronic record playing aparatus and other products, and a fourth registration which was not considered, since it was applied for after applicant's filing date. The Examiner of Interferences sustained the opposition. *Examiner-in-Chief Federico* affirmed.

It was held that the Examiner was right in finding that electric motors for winding phonograph spring motors are goods of the same descriptive properties as products for which opposer has established prior use, notably phonograph combinations and record players, and that the marks of the parties are so nearly identical that their contemporaneous use would be likely to cause confusion or deception.

After noting that opposer took testimony of witnesses to show that applicant did not derive any rights from predecessors as is alleged, it was held that since the applicant took no testimony and is restricted to his filing date and opposer is prior to such filing date, this question need not be considered.

After noting that the record indicates that the mark has not been used for a long time on the goods recited in the application, but abandonment was not raised as a ground of opposition, it was held that it is not considered necessary to consider the question of abandonment ex parte at this time.

After noting that applicant also seeks review of a denial by the Examiner of Interferences of a motion to reset his time for taking testimony, it was held that no abuse of discretion by the Examiner in denying this motion is found and, insofar as applicant's raising of this question on appeal may be considered as a request to reopen and remand for the taking of testimony by the applicant, no basis whatsoever for such action has been shown, since applicant's conduct during the course of this proceeding indicates a wilful refusal to give any evidence.

EX PARTE BOYLE-MIDWAY INC., 173 Ms. D. 715, 92 USPQ 391, March 10, 1952.

Application was made for registration on the Supplemental Register of an alleged trade-mark stated to be used for lubricating oils, the drawing being intended to show an oil can of generally rectangular shape with a tapered spout projecting from the upper surface and a cap set over the end of the spout. The statement asserts that "The trade-mark consists of a transparent pouring spout having a removable red cap thereon." The Examiner of Trade-Marks refused registration. *Examiner-in-Chief Federico* affirmed, but without prejudice to consideration of the registration of the container upon a proper application.

It was held that neither the transparent spout nor the red cap, nor a combination of the two, can be considered a trade-mark.

After noting that the mark to be registrable on the Supplemental Register does not need to be a trade-mark as trade-mark is defined in section 45 for registration on the Principal Register, so that in this particular case the thing sought to be registered appears to fall within the word "package," interpreted by the Patent Office as including containers, and containers such as bottles have been registered, it was held that while applicant's container may therefore possibly be capable of being registered on the Supplemental Register, nevertheless, applicant has not supplied specimens of the complete container, nor does the drawing illustrate the container as actually used.

It was held that if applicant wishes to register the container, and container is here used to include the spout and cap, the complete container as actually used must be shown.

EX PARTE J. HUNGERFORD SMITH CO., 173 Ms. D. 719, 92 USPQ 357, March 12, 1952.

Application was made for registration, under the provisions of section 2(f) of the act of 1946, of the mark "JUICY ORANGE" for syrup used in making orange-flavored nonalcoholic maltless soft drinks. The Examiner of Trade-Marks refused registration in view of Registration No. 289,494 for the mark "U-SEE" for nonalcoholic, maltless beverages and extracts or syrups for producing the same, and on the ground that applicant's notation is incapable of distinguishing applicant's goods in trade. *Assistant Commissioner Klinge* affirmed.

It was held that the mark of the applicant is so similar in sound to that of the registrant that when applied to similar goods likelihood of confusion is highly probable.

It was held that the goods are similar, and that they need not be identical, and that the marks are so confusingly similar in sound that when applied to similar goods confusion in trade is likely.

It was held that the Examiner was right in ruling that the applicant's mark is so highly descriptive that it is not subject to exclusive appropriation since it is incapable of ascribing to the goods the source of origin thereof, and that the affidavits and exhibits submitted in this case are not convincing of any error in the conclusion reached by the Examiner.

EX PARTE MILTON BRADLEY CO., 173 Ms. D. 723, 92 USPQ 356, March 12, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing registration on the Principal Register under the provisions of the act of July 5, 1946, of the mark "KLINGTEX" applied to pastes and glues in view of Registration No. 350,151 for the mark "KLINGTITE" for adhesives and Registration No. 388,368 for the mark "KLING" applied to a liquid adhesive cement.

It was held that applicant's mark and those of the two prior registrations are associated with the same classification of goods, namely, adhesives, and the goods are all considered similar and related products, so that the important question here presented for review is whether the mark of the applicant is confusingly similar to those of the prior registrants.

It was held that it is clear that the applicant has appropriated the entire mark of Registration No. 388,368 for the mark "KLING" as the prominent part of its own mark, so that registration of the applicant's mark was properly refused.

With regard to Registration No. 350,151 for the mark "KLINGTITE" it was held that such mark and the mark here sought to be registered are too similar to justify the registration of the applicant's mark.

EX PARTE THE NATIONAL CASH REGISTER COMPANY, 173 Ms. D. 724, 92 USPQ 359, March 12, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing registration of the word "WALES" for adding, listing and calculating machines under the provisions of section 2(f) of the act of July 5, 1946, where the specimens submitted with the application showing the mark as actually used on the goods disclose the two words "ALLEN" and "WALES," each printed in the same type lettering and each equally prominently displayed, separated by a keystone design.

After noting that it is well settled that the mark sought to be registered must be the same as the mark which is actually used, it was held that the single word "WALES" cannot be accepted in this case as the mark actually used by the applicant, apart from the word "ALLEN" and the keystone, which form the remaining parts of the composite mark shown on the specimens, so that in the absence of a showing that the word "WALES," as is here sought to be registered, is actually in use in commerce by this applicant as a trade-mark registration must be refused.

EX PARTE JACK DANIEL DISTILLERY, LEM MOTLOW, PROP., INC., 173 Ms. D. 726, 92 USPQ 364, March 13, 1952.

Application was made for registration on the Principal Register under section 2(f) of the act of 1946, of the mark "TENNESSEE" for whiskey. The specimens filed disclose the word "TENNESSEE" below which is prominently displayed the words "Sour Mash Corn WHISKEY." At one side of the label appears the statement "Made in Tennessee." Applicant filed a number of substantially duplicate affidavits by dealers or distributors of the applicant's goods to the effect that the affiants sell substantial quantities of corn whiskey labeled "TENNESSEE CORN WHISKEY" produced by the applicant; that said "TENNESSEE CORN WHISKEY" is well known to the trade and consumers as a product of the applicant's distilleries; and that to the best of their knowledge and belief there is no other whiskey on the market labeled "TENNESSEE." There is also of record a letter to the effect that "TENNESSEE" was credited as a trade-mark of the applicant in the 1947 and 1949 editions of the "Red Book Directory." The Examiner of Trade-Marks refused registration on the ground that the applicant has failed to sustain the burden of proving that the mark has become distinctive of the applicant's goods in commerce. *Assistant Commissioner Klinge* affirmed.

It was held that the showing made by the applicant in this case in support of its claim that the word "TENNESSEE" is a trade-mark which has become distinctive of this applicant's goods in commerce is unconvincing, because the notation here sought to be registered, as used by the applicant, would indicate to the average customer no more than an indication of the geographical origin of the goods in which the applicant deals, and has not been shown to have acquired trade-mark status to indicate origin in the applicant of sour mash corn whiskey which it sells.

EX PARTE JACK DANIEL DISTILLERY, LEM MOTLOW, PROP., INC., 173 Ms. D. —, — USPQ —, March 31, 1952.

On petition for reconsideration of his decision of March 13, 1952, in the above entitled case, *Assistant Commissioner Klinge* denied the petition in respect to making any change in the decision. It was held that the applicant's claim of distinctiveness based on more than five years' exclusive and continuous use of the mark does not entitle it to registration, since, if the term "TENNESSEE" has not acquired trade-mark status to indicate origin *in the applicant*, then no amount of use, no matter how extensive, can be accepted as sufficient to warrant registration.

EX PARTE THORNHILL-CRAVER COMPANY, 173 Ms. D. 728, 92 USPQ 363, March 13, 1952.

Assistant Commissioner Klinge affirmed the decision of the Examiner of Trade-Marks refusing registration, on the Principal Register of the act of 1946, of the letter "X" in quotation marks, as a trade-mark applied to pipe fittings known as flow beans. The applicant's mark is shaded along one side of each of the arms of the "X," the end portions of each arm being drawn in a wavy line to present what appears to be a ragged-edge. Registration was refused in view of prior Registration No. 216,918, disclosing an "X," at the bottom of one of the legs of which is a line extending outwardly at an angle of 90°, the goods described in the registration being pipe couplings and nipples.

It was held that the goods are closely related, since purchasers of the applicant's goods also buy pipe fittings, even though purchasers of ordinary plumbing supplies may not buy flow beans; the fact that the applicant's goods are sold to discriminating purchasers and not to the general public is not controlling if likelihood of confusion due to the similarity of the marks is present.

It was held that there is not sufficient distinction between the marks in their over-all appearance to warrant registration of the applicant's mark when applied to similar goods; both marks are essentially an "X" with insufficient modification to render them distinctly different each from the other.

It was held that when it is considered that the marks are substantially alike and the goods to which they are applied are closely related, likelihood of confusion as to the source of origin of applicant's goods could hardly be avoided, so that the registration of the applicant's mark was properly refused.

EX PARTE NUODEX PRODUCTS CO., 173 Ms. D. 734, 92 USPQ 362, March 13, 1952.

Application was made for registration, as a trade-mark, of a blue band encircling a commercial drum used as a container for driers for paints, varnishes, enamels and linoleum coating compositions. No claim is made to the representation of the drum apart from the mark as shown. No other symbol or sign of any kind appears in combination with the blue band. The Examiner of Trade-Marks refused registration on the ground that what applicant presents is not in fact a trade-mark, but is merely color ornamentation of a substantial portion of the surface of the drum and does not constitute an application of color in such an arbitrary design or manner as to function to indicate origin in the applicant and distinguish the applicant's products from similar products of others. The Examiner noted that from the description, the mark "a blue band encircling a commercial drum" may be so applied as to cover substantially the whole of the drum. *Assistant Commissioner Klinge* affirmed.

It was held that it is well settled that color may be part of a valid trade-mark when used in a particular design such as a circle, square, triangle, a cross, or a star, but where color alone, painted upon the surface of an article, is relied upon as the distinguishing feature of applicant's goods, it may not serve as a trade-mark.

It was held that while the band "shown" may be as much a particular design as is a circle, square, triangle or other conventional geometric figure, and cannot be said to constitute color alone, it is quite obvious that if the band were extended vertically to encompass substantially entirely the surface of the drum, it might still be considered "a blue band encircling a commercial drum," as described, but would at once become to all appearances a mere painting of the drum and thus lose its distinctiveness as a blue band and no longer serve as a mark of distinction.

It was held that since the application is not limited to *the* mark shown on the drawing and specimens filed, the mark may amount to mere coloring alone, and that, since a trade-mark registration must stand or fall in its entirety, the registration here sought should be denied on the basis of the application filed.

NORTHAM WARREN CORPORATION *v.* MILLERS FORGE MFG. CORP., 173 Ms. D. 736, 92 USPQ 360, March 13, 1952, Opposition No. 29,355.

Application was made for registration on the Principal Register under the act of 1946 of the notation "CUTI-CLIP" as a trade-mark for manicure implements, namely, cuticle nippers, cuticle scissors, nail scissors, tweezers, blackhead removers, baby nail scissors and mustache scissors. Opposition was filed, based upon the opposer's mark "CUTEX" applied to a number of manicure implements, including manicure clippers, manicure nippers, manicure tweezers, manicure metal pushers, manicure sticks and nail files. The Examiner of Trade-Mark Interferences sustained the opposition. *Assistant Commissioner Klinge* affirmed.

It was held that the goods of the respective parties all relate to manicuring implements and in many instances are identical in kind, so that there can be no question that all of the goods pertain to the same classification of merchandise and are goods of the same descriptive properties.

It was held that the opposer's priority of use of its mark in connection with the goods above enumerated is not here in dispute, so that the only question for determination is whether the mark of the applicant bears such near resemblance to that of the opposer as to give rise to the likelihood of confusion, mistake or deception of purchasers as to the origin of the applicant's goods.

It was held that the applicant's mark "CUTI-CLIP" bears such near similarity to the opposer's mark "CUTEX" as to be likely to cause confusion or mistake or to deceive purchasers.

In response to applicant's contention that the equitable defense of laches, estoppel and acquiescence should be applied against the opposer in this case in accordance with the provisions of section 19 of the Trade-Mark Act of 1946, in view of an alleged consent by the opposer, subsequent to the filing of the present notice of opposition, to applicant's use of the mark, it was held that even if the opposer had acquiesced in the use by the applicant of its mark, as the applicant contends, the opposer clearly did not acquiesce in the applicant's right to the registration thereof, which is the only question involved in this proceeding.

THE CROWN OVERALL MANUFACTURING COMPANY *v.* COUNTESS MARA, INC., 173 Ms. D. 732, 92 USPQ 366, March 14, 1952, Opposition No. 29,200.

Application was made for registration of a mark applied to men's clothing, namely, neckties, lounging robes, smoking jackets, mufflers, pajamas and handkerchiefs. The mark as disclosed in the application is a composite one comprising a monogram associated with a design composed of the upper segment of a circular figure formed of a heavy curved line, a series of equidistant lines radiating therefrom, and a corresponding series of heavy dots in radial alignment therewith. The monogram portion appears in the form of the letters "C M" somewhat fancifully written and apparently represent the initials of the applicant Countess Mara, Inc. Notice of opposition was filed, alleging continuous use of the trade-mark "CROWN" by opposer and its predecessors, since about the year 1880, in the form of the word "CROWN" and as pictorial representations of various crowns, alone or in combination, as a trade-mark for indicating that various garments or articles of apparel bearing such mark come from the opposer. The applicant filed a motion to dismiss the notice of opposition for failure to state facts upon which relief may be granted, alleging that confusion is impossible in view of the arbitrary and fanciful nature of the entire mark of the applicant, which is so different in appearance from the word and picture marks of the opposer. The Examiner of Trade-Mark Interferences granted the motion. *Assistant Commissioner Klinge* affirmed.

It was held that it is difficult to say with any degree of certainty exactly what the fanciful design portion of the applicant's mark would suggest to the casual observer; whether the design portion represents a crown, a tiara, a pot of flowers, a fan, a simple ornamental flourish, or a peacock's tail is a matter that might be anyone's guess, so that in any event, considering the applicant's composite mark as a whole, there would be no likelihood of confusion as to the source of the applicant's goods with the mark here sought to be registered applied thereto.

STARDUST, INCORPORATED *v.* MALAMUT & CHANEN, 173 Ms. D. 730, 92 USPQ 365, March 14, 1952, Opposition No. 29,863.

Application was made to register the word "Starlet," used for hairnets, garters and hose supporters. Opposition was filed, based upon prior use by opposer and its predecessors of the trade-mark "STARDUST" and ownership of prior certificates of registration for the trade-mark "STARDUST" for

hosiery, slips, and many other items of ladies' wearing apparel. The Examiner of Trade-Mark Interferences dismissed the opposition. *Assistant Commissioner Klinge* reversed.

After noting that the Examiner held, and the applicant here argues, that there is nothing in the record to indicate that the products of the respective parties to this proceeding are closely related and are sold through similar trade channels, it was held that although that is true, it takes but little if any realism to appreciate the close relationship between hose supporters and hose, and evidence to establish such relationship is unnecessary, especially where as here the same class of customers buy both types of goods; the fact that the goods are not identical is of no importance in this case; it is sufficient if they are closely related in use and a closer interdependence can hardly be imagined than that existing between women's hose and hose supporters, or garters.

It was held that the meanings of the two marks, in so far as they have any significance in this case, are of little assistance in determining the question of likelihood of confusion, since it is doubted that purchasers would pause to reflect upon distinctions in meaning between the two words when buying either hose or hose supporters; more important in this case are resemblances in sound and general appearance of the two words; the word "Star" is the portion of each mark most likely to be remembered so that confusion or mistake as to the source of origin of the applicant's goods would be more than likely with the marks applied to such similar goods; and therefore the opposition should have been sustained.

EX PARTE TRU-AID PRODUCTS COMPANY, 173 Ms. D. 740, — USPQ —, March 18, 1952.

The notation "TRU Aid" as a trade-mark on denture cushions held unregistrable on the Principal Register under the act of July 5, 1946, as descriptive of the quality or function of the applicant's goods. The fact that the mark is equally descriptive of many other articles of merchandise did not make the mark any the less descriptive of the applicant's goods. Decision of Examiner of Trade-Marks affirmed by *Assistant Commissioner Klinge*.

KEYSTONE VARNISH COMPANY (DOING BUSINESS AS KEYSTONE PAINT AND VARNISH CORPORATION) *v.* B. & R. MANUFACTURING COMPANY (FLEX-O-LITE MANUFACTURING CORPORATION, ASSIGNEE, SUBSTITUTED), 173 Ms. D. 741, — USPQ —, March 20, 1952, Opposition No. 28,962.

The notation "FLEX-O-LITE" as a trade-mark applied to reflective glass beads used in municipal, highway and airport center lines and the like held registrable over opposer's prior use and ownership of the trade-mark "REFLEXALITE" used on enamel paints, on the ground that the marks are unquestionably similar, and the record did not show that the goods of the respective parties are adapted for simultaneous and related uses, or that they are sold through the same outlets or to the same general class of customers. Decision of the Examiner of Trade-Mark Interferences reversed by *Assistant Commissioner Klinge*.

EX PARTE MARTIN'S, 173 Ms. D. 744, — USPQ —, March 24, 1952.

The notation "Dubelware" appearing in script above two parallel lines from which a third line in substantially the form of a letter "C" depends as a trade-mark applied to clothing refused registration under the provisions of section 2(f) of the act of 1946 in view of prior registrations of composite trade-marks including the notation "DUBBLE WARE" aplied to identical goods, on the ground that the principal feature of each mark consists of the phonetic misspelling of the words "double wear" and the goods would be referred to by these words by the public. Decision of the Examiner of Trade-Marks affirmed by *Assistant Commissioner Klinge*.

EX PARTE ESCOFFIER, LIMITED, 173 Ms. D. 749, — USPQ —, March 26, 1952.

The mark comprising a shield with the words "The Escoffier Sauce Diable a la Provencale" in the upper part in five lines and the signature "A. Escoffier" in the lower part refused registration under section 2(f) of the act of 1946, since "sauce diable" is the name of a particular type of sauce and "a la Provencale" is a common term in cookery, and these portions of the mark were not disclaimed. Decision of the Examiner of Trade-Marks affirmed by *Examiner-in-Chief Federico*.

EX PARTE UNITED STATES ELECTRIC MFG. CORP., 173 Ms. D. 748, — USPQ —, March 26, 1952.

The notation "Swivel-Head" as a trade-mark applied to electric flashlights refused registration under section 2(f) of the act of 1946 since the term "swivel-head" is an apt, appropriate and convenient known expression to designate flashlights of the type involved and is so generically descriptive of the goods that it could not become distinctive of any particular individual's flashlights. Decision of Examiner of Trade-Marks affirmed by *Examiner-in-Chief Federico*.

EX PARTE WELLS LAMONT CORPORATION, 173 Ms. D. 750, — USPQ —, March 26, 1952.

The notation "SELL-O-GRAM" with the name "Wells Lamont" enclosed in a rectangular panel inserted through the letter "O," as a trade-mark for use on advertising bulletins published from time to time, refused registration under the act of 1946 for lack of trade-mark usage, since the applicant did not show periodic publication of its advertising bulletins, or anything therein of a literary character or of general interest as reading matter. Decision of Examiner of Trade-Marks affirmed by *Assistant Commissioner Klinge*.

TRADE-MARKS

OFFICIAL GAZETTE, APRIL 29, 1952

[VOL. 657. No. 5]

ACT OF 1905

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication. As provided by section 14 of said act, a fee of ten dollars must accompany each notice of opposition.

Marks published for opposition under the act of 1946 follow the 1905 publications.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 468,855. Sterling Engine Company, Buffalo, N. Y. Filed Mar. 30, 1944.



The term "The Engine of Refinement for the Finest Boats that Float" and the word "Sterling" are disclaimed.

For Internal Combustion Engines.

Claims use since Aug. 21, 1923.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 520,736. The Lehon Company, Chicago, Ill. Filed Apr. 15, 1947.



For Barometers, Thermometers, Slides and Films for Picture Projectors, Yard Sticks, Rulers.

Claims use since September 1908.

Ser. No. 520,737. The Lehon Company, Chicago, Ill. Filed Apr. 15, 1947.

MULE-HIDE

For Barometers, Thermometers, Slides and Films for Picture Projectors, Yard Sticks, Rulers.

Claims use since September 1908.

CLASS 39

CLOTHING

Ser. No. 507,332. Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y. Filed Aug. 13, 1946.



The word "Bunnyfelt" is disclaimed. Applicant is the owner of Registration No. 421,014, registered under the ten year proviso.

For Men's, Women's, and Children's Hats and Hat Bodies.

Claims use since 1856 as to "Merrimac"; and since May 1939 on the mark as shown.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 504,865. Red-ee Foods, Inc., Los Angeles, Calif., now by change of name Cinch Products Inc., a corporation of California. Filed June 29, 1946.



The word "Products" is disclaimed.

For Hot Cake Mix, Corn Bread Mix, Waffle Mix, and Cake Mix.

Claims use since Aug. 4, 1943.

ACT OF 1946

The following trade-marks are published in compliance with section 12(a) of the Trade-Mark Act of 1946. Notice of opposition under section 13 may be filed within thirty days of this publication. See Rules 20.1 to 20.5.

As provided by section 31 of said act, a fee of twenty-five dollars must accompany each notice of opposition.

CLASS 2

RECEPTACLES

Ser. No. 587,035. Industrial Container Corporation, Brooklyn, N. Y. Filed Oct. 29, 1949.

ICC

For Cartons and Boxes of Paper Board and Corrugated Board.
Claims use since Jan. 2, 1941.

Ser. No. 602,598. Columbus Plastic Products, Inc., Columbus, Ohio. Filed Aug. 23, 1950.

Lustro-Ware

The term "Ware" is disclaimed. Applicant claims ownership of Registrations Nos. 416,862, 517,431, and 521,835.
For Drinking Glass Coasters, Kitchen Canister Sets, Ornamental Holders for Supporting Cut Flowers, Pitchers, Bread Baskets, Cake Cover Sets, Ice Buckets, Cookie Jars, and Serving Trays, All Composed of Thermoplastic and/or Thermosetting resins.
Claims use since June 1947.

Ser. No. 602,801. Consolidated Paper Bag Company, Somerville, Mass. Filed Aug. 26, 1950.



The pictorial representation of a bag is disclaimed.
For Insulated Paper Bags for Hot or Cold Foods.
Claims use since May 1, 1950.

Ser. No. 610,724. United Wallpaper, Inc., Chicago, Ill. Filed Mar. 1, 1951.

SAN-I-POR

For Liquid Cartons Made of Fibrous Plastic-Coated Material.
Claims use since Feb. 21, 1951.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Ser. No. 606,198. Aristocrat Leather Products, Inc., New York, N. Y. Filed Nov. 10, 1950.

BEECH-NUT
BILLFOLDS

The word "Billfolds" is disclaimed.
For Wallets or Billfolds.
Claims use since Nov. 2, 1950.

Ser. No. 609,668. Tex Tan of Yoakum, DeWitt County and Yoakum, Tex. Filed Feb. 5, 1951.

SURETY-FOLD

The word "Fold" is disclaimed.
For Billfolds.
Claims use since Aug. 1 1950.

Ser. No. 616,853. The Hagerstown Leather Co., Hagerstown, Md. Filed July 24, 1951.

Lovely Lady

For Ladies' Purses.
Claims use since July 3, 1951.

Ser. No. 618,671. Aristocrat Leather Products, Inc., New York, N. Y. Filed Sept. 12, 1951.

REMBRANDT

For Wallets or Billfolds.
Claims use since Aug. 31, 1951.

Ser. No. 618,731. Bernard Cahn Co., Inc., New York, N. Y. Filed Sept. 13, 1951.

Pocketful

For Wallets and Purses.
Claims use since Aug. 7, 1950.

Ser. No. 618,767. U. S. Handbag Corporation, New York, N. Y. Filed Sept. 13, 1951.

SADDLETEX

For Ladies' Handbags, Wallets, and Travelling Cases.
Claims use since Aug. 7, 1950.

Ser. No. 618,837. Atlantic Products Corporation, Trenton, N. J. Filed Sept. 15, 1951.

SwagBag

The word "Bag" is disclaimed.
For Hand Luggage.
Claims use since May 31, 1951.

CLASS 4

ABRASIVES AND POLISHING MATERIALS

Ser. No. 601,357. Huntington Laboratories, Inc., Huntington, Ind. Filed July 28, 1950.

SAFE-T-SAN

The word "Safe-T" is disclaimed.
For Slip Retardant Floor Polish.
Claims use since July 14, 1944.

Ser. No. 608,957. The Simoniz Company, Chicago, Ill. Filed Jan. 18, 1951.

BODYGARD

For Liquid Material, Including Wax and Providing a Coating or Film Particularly for Protective and Preservative Purposes, and for Polishing, for Use on Automobiles and Other Painted and Lacquered Surfaces.
Claims use since Sept. 1, 1950.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Ser. No. 548,171. Monsanto Chemical Company, St. Louis, Mo. Filed Jan. 28, 1948.

Saccharin Monsanto

The word "Saccharin" is disclaimed.
For Saccharin Soluble and Insoluble.
Claims use since September 1919.

Ser. No. 550,942. Phillips Petroleum Company, Bartlesville, Okla., assignor to Phillips Chemical Company, Bartlesville, Okla., a corporation of Delaware. Filed Mar. 1, 1948.



Applicant claims ownership of Registration No. 440,043.
For Carbon Compounding Material Used Principally as a Filler in Rubber or in Synthetic Rubber.
Claims use since Nov. 6, 1944.

Ser. No. 576,199. W. E. Forster, Wichita, Kans. Filed Mar. 28, 1949.

MEL-O-RITE

The term "Mel-O" is disclaimed. The drawing is lined for shading.
For Preparation for Treating Wheat To Eliminate Odors in the Flour Caused by Wet Wheat Dust in the Flour Milling Process.
Claims use since Feb. 19, 1949.

Ser. No. 583,196. Food Machinery and Chemical Corporation, San Jose, Calif. Filed Aug. 9, 1949.

Gam Kil

The term "Kil" is disclaimed.
For Insecticides.
Claims use since Mar. 1, 1949.

Ser. No. 601,289. Thaw Corporation, Chicago and Villa Park, Ill. Filed July 26, 1950.

THAW

For Anti-Freeze Solutions and Anti-Freeze Compounds for Internal Combustion Engines.
Claims use since June 6, 1950.

Ser. No. 601,290. Thaw Corporation, Chicago and Villa Park, Ill. Filed July 26, 1950.



For Anti-Freeze Solutions and Anti-Freeze Compounds for Internal Combustion Engines.
Claims use since June 6, 1950.

Ser. No. 604,480. Iron City Chemical Company, Evans City, Pa. Filed Oct. 5, 1950.

glycosol

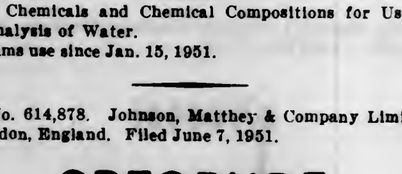
For Triethylene Glycol.
Claims use since June 15, 1950.

Ser. No. 605,076. Thaw Corporation, Chicago and Villa Park, Ill. Filed Oct. 17, 1950.

PERMA THAW

For Anti-Freeze Solutions and Anti-Freeze Compounds for Internal Combustion Engines.
Claims use since June 6, 1950.

Ser. No. 605,077. Thaw Corporation, Chicago and Villa Park, Ill. Filed Oct. 17, 1950.



For Anti-Freeze Solutions and Anti-Freeze Compounds for Internal Combustion Engines.
Claims use since June 6, 1950.

Ser. No. 609,011. The Viscol Company, Bridgeport, Conn. Filed Jan. 19, 1951.

SOLEOL

For Liquid Compound for Treating Shoe Soles To Render Them Waterproof.
Claims use since 1904.

Ser. No. 610,594. Spaulding-Moss Company, Boston, Mass. Filed Feb. 27, 1951.

DYELINE

For Ammonium Hydroxide Developer for Sensitized Paper.
Claims use since Feb. 8, 1951.

Ser. No. 612,160. Clifford Hach, doing business as Hach Chemical Company, Ames, Iowa. Filed Apr. 3, 1951.

HachVer

The word "Hach" is disclaimed.
For Chemicals and Chemical Compositions for Use in the Analysis of Water.
Claims use since Jan. 15, 1951.

Ser. No. 614,878. Johnson, Matthey & Company Limited, London, England. Filed June 7, 1951.

SPECPURE

Applicant claims ownership of British Registration No. 529,187, dated Feb. 5, 1932.
For Metallic Compounds and Solutions Thereof Used as Standardised Substances for Chemical Analysis and Research.

Ser. No. 615,874. Frederick C. Bersworth, Framingham, Mass., assignor to Bersworth Chemical Company, Framingham, Mass., a corporation of Massachusetts. Filed June 29, 1951.

VERSENER

Applicant claims ownership of Registration No. 410,354.
For Water Softening Agents in Powdered and Liquid Form Without Detergents.
Claims use since June 8, 1951.

Ser. No. 616,014. Commonwealth Sanitation Company, Pittsburgh, Pa. Filed July 3, 1951.

C-SAN-C

For Deodorants for Toilet Closet Bowls and Urinals and Insecticides.
Claims use since June 26, 1939.

Ser. No. 616,771. May & Baker Limited, Dagenham, Essex, England. Filed July 21, 1951.

PROMICROL

Applicant claims ownership of British Registration No. 664,231, dated Nov. 20, 1947.
For Chemical Photographic Developers.

Ser. No. 616,774. Minnesota Mining & Manufacturing Company, St. Paul, Minn. Filed July 21, 1951.

3M BRAND

The word "Brand" is disclaimed. Applicant claims ownership of Registration No. 542,961.
For Chemical Composition for Treating the Printing Surface of a Lithographic Plate To Render the Image Thereon Visible, To Strengthen Said Image, and To Aid Said Plate in Taking Up Ink.
Claims use since Aug. 2, 1950.

Ser. No. 617,004. Robert W. Alfredson, New York, N. Y. Filed July 27, 1951.

CONTRATA

For Rat Poison.
Claims use since June 20, 1951.

Ser. No. 617,079. The Dow Chemical Company, Midland, Mich. Filed July 28, 1951.

COLOR-SET 1004

For Preparation To Control the Preharvest Drop of Apples.
Claims use since May 24, 1951.

Ser. No. 617,978. American Alcolac Corporation, Fairfield, Baltimore, Md. Filed Aug. 23, 1951.

SIPONOL

Applicant claims ownership of Registration No. 553,565.
For High Molecular Weight Aliphatic Alcohols and Particularly Fatty Alcohols.
Claims use since May 1951.

Ser. No. 618,801. Kelco Company, San Diego, Calif. Filed Sept. 14, 1951.

KELACID

Applicant claims ownership of Registrations Nos. 277,972, 407,888, and others.
For Alginic Acid.
Claims use since Aug. 28, 1950.

Ser. No. 618,848. Eston Chemicals, Inc., Los Angeles, Calif. Filed Sept. 15, 1951.

ESTOMITE

Applicant claims ownership of Registration No. 528,963.
For Insecticides and Miticides.
Claims use since July 30, 1951.

Ser. No. 618,958. The Dow Chemical Company, Midland, Mich. Filed Sept. 19, 1951.

COLOR-SET

For Preparation To Control the Preharvest Drop of Apples.
Claims use since Aug. 21, 1951.

Ser. No. 619,724. Southern Agricultural Insecticides, Inc., Palmetto, Fla., and Hendersonville, N. C. Filed Oct. 8, 1951.

ZEB

For Insecticides.
Claims use since Nov. 6, 1947.

CLASS 7

CORDAGE

Ser. No. 600,145. John A. Roebling's Sons Company, Trenton, N. J. Filed July 1, 1950. (Sec. 2f.)

ROEBLING

Applicant claims ownership of Registration No. 63,878.
For Slings for Lifting Various Kinds of Loads Made of Wire Strand or Wire Rope and Yacht Rigging Made of Wire Rope.
Claims use since 1850

Ser. No. 608,942. Nachi-Cocom Cordage Corp. S. A., Merida, Yucatan, Mexico. Filed Jan. 18, 1951.

COCOM

For Sisal Goods—Namely, Twines, Cordages, and Ropes.
Claims use since June 15, 1950; and use in commerce between foreign nations and the United States since Sept. 10, 1950.

CLASS 12

CONSTRUCTION MATERIALS

Ser. No. 603,221. Brisk Waterproofing Co., Inc., New York, N. Y., and elsewhere in the United States. Filed Sept. 7, 1950. (Sec. 2f.)

LARSON

For Waterproofing Membrane for Use in Masonry Walls.
Claims use since 1934.

CLASS 13

HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES

Ser. No. 589,976. Jiffy Products, Plainfield, N. J. Filed Dec. 27, 1949.

Jiffy

For Baby's Plastic Trainer Seats, Toilet Seats.
Claims use since Aug. 1, 1949.

Ser. No. 601,365. Modern Builders, Inc., Missoula, Mont. Filed July 28, 1950.

DRIVE-O-MATIC

For Combination Fence Gates and Mechanically Operated, Ramps Therefor for Opening and Closing the Gates.
Claims use since Jan. 17, 1950.

CLASS 14

METALS AND METAL CASTINGS AND FORGINGS

Ser. No. 606,486. Precision Steel Warehouse, Incorporated, Chicago, Ill. Filed Nov. 16, 1950. (Sec. 2f.)

PRECISION BRAND

The word "Brand" is disclaimed. Applicant claims ownership of Registrations Nos. 421,089, 500,358, and 527,247.
For Cold Rolled Shim Steel, Cold Rolled Strip Steel, Cold Rolled Annealed Spring Steel, Feeler Gauge Stock.
Claims use since Dec. 10, 1944.

Ser. No. 620,247. Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Filed Oct. 20, 1951.

LUDNIUM

For Special Alloy Steel for Use in the Production of Medical and/or Surgical Appliances.
Claims use since May 21, 1951.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Ser. No. 514,965. The Master Mechanics Co., Cleveland, Ohio. Original filed, act of 1905, Dec. 28, 1946; amended to application under act of 1946, Principal Register, June 6, 1949. (Sec. 2f.)

STEIN-FEST

Applicant claims ownership of Registration No. 432,790.
For Phenolic Formaldehyde Tung Oil Paint Enamel in Liquid Form for Use on Both Cement and Wood Surfaces and a Thinner Therefor.
Claims use since September 1926.

Ser. No. 555,057. Country Stores Brands Inc., Chicago, Ill. Filed Apr. 20, 1948.

COUNTRY STORE BRANDS

The word "Brands" is disclaimed.
For Ready Mixed Oil Paint.
Claims use since Jan. 27, 1948.

Ser. No. 555,058. Country Stores Brands, Inc., Chicago, Ill. Filed Apr. 20, 1948.

COUNTRY STORES BRANDS

The word "Brands" is disclaimed.
For Ready Mixed Oil Paint.
Claims use since Jan. 27, 1948.

Ser. No. 576,275. National Automotive Parts Association, Detroit, Mich. Filed Mar. 29, 1949. (Sec. 2f.) COLLECTIVE MARK.



All wording with the exception of "National" and the letters "N. A. P. A." is disclaimed. Applicant claims ownership of Registration No. 211,037.
For Automobile Paints, Varnishes, Lacquers, and Enamels; Paint Thinners and Reducers; Black Paint Undercoatings for Use in Finishing Automobiles.
Claims use since April 1940; and since August 1925 as to a substantial portion of the mark including the letters N. A. P. A. and an outline map of the United States, all as shown in Registration No. 211,037.

Ser. No. 590,441. Johns-Manville Corporation, New York, N. Y. Filed Jan. 6, 1950. (Sec. 2f.)

JOHNS-MANVILLE
JM

Applicant claims ownership of Registrations Nos. 68,137, 95,632, and others.
For Bituminous Enamels and Bituminous Paints; Bituminous Waterproofing and Damp Proofing Coatings; Bituminous Primers; and Varnish.
Claims use since 1929 as to the mark shown; and since June 19, 1909 as to "JM."

Ser. No. 600,693. The Patterson-Sargent Company, Cleveland, Ohio. Filed July 14, 1950.

STUCCOLUX

For Ready-Mixed Paints.
Claims use since June 1, 1942.

Ser. No. 605,166. W. J. Lynch Paint & Varnish Co., Inc., East Providence, R. I. Filed Oct. 19, 1950.

SUPERLYNCH

Applicant claims ownership of Registration No. 442,022.
For Exterior and Interior House Paints, Exterior House Paint Primers, Finishes, Varnishes, Enamels and Oil Colors.
Claims use since Aug. 1, 1948.

Ser. No. 608,605. Industrial Oil Products Corporation of Philadelphia, Philadelphia, Pa. Filed Jan. 10, 1951.

ELASTOIL

Applicant claims ownership of Registration No. 275,474.
For Processed Oils for Use With Paints and Varnishes.
Claims use since Sept. 1, 1925.

Ser. No. 608,957. The Simonis Company, Chicago, Ill. Filed Jan. 18, 1951. (Classified in Class 4.)
See this serial number in Class 4 for goods and mark.
Claims use since Sept. 1, 1950.

Ser. No. 612,668. The Sherwin-Williams Company, Cleveland, Ohio. Filed Apr. 14, 1951.

IRIS

Applicant claims ownership of Registration No. 200,589.
For Paints (Ready-Mixed, Paste Form, and Dry), Paint Enamels, Varnishes, Wood and Varnish Stains, and Wood and Metal Fillers in the Nature of Paint.
Claims use since Dec. 6, 1920.

Ser. No. 613,281. Pieter Schoen & Zoon N. V., Zaandam, Kingdom of the Netherlands. Filed Apr. 27, 1951.

SIGMARDA

Applicant claims ownership of Netherlands Registration No. 57,713, dated Feb. 21, 1949.
For Oil Paints, Plastic Paints, Oils for Use in Oil Paints, Lacquers, Lac Paints, Varnishes, Paint Driers, and Paint Hardeners.
Claims use since May 1929; and since December 1930 in commerce between the Netherlands and the United States.

Ser. No. 613,563. Forman, Ford and Company, Minneapolis, Minn. Filed May 5, 1951.

Wal-San

The word "Wal" is disclaimed.
For Ingredient, Having a Silicone Base, for Use in Paint for Inside and Outside Wall Coatings.
Claims use since Jan. 5, 1951.

CLASS 18

MEDICINES AND PHARMACEUTICAL PREPARATIONS

Ser. No. 581,681. Parke, Davis & Company, Detroit, Mich. Filed July 8, 1949.

B-M-E BACTERIN

The word "Bacterin" is disclaimed.
For Clostridium-Chauvei-Septicus Bacterin for Use in Immunization of Cattle and Other Susceptible Animals Against Blackleg and Infections Due to Clostridium Septicum.
Claims use since June 7, 1949.

Ser. No. 584,032. Whitmire Research Laboratories, Inc., St. Louis, Mo. Filed Aug. 25, 1949.

LITOID

For Preparation for the Control of Head Lice and Their Nits on Humans.
Claims use since Oct. 22, 1948.

Ser. No. 586,229. Armour and Company, Chicago, Ill. Filed Oct. 13, 1949.



The mark comprises the letter "V."
For Veterinary Preparations Used in Treating Animals—Namely, Anti-Hog Cholera Serum; Hog Cholera Virus; Preparations of Urea, Sulfanilamide, and Sulfathiazole; Solutions of Iron, Arsenic, and Strychnine; Preparations of Salicylic Acid, Ginger, and Cloves, Used for Treating Indigestion in Horses, Cattle, Hogs, and Sheep; Iodized Hydrocarbon Oil; Scarlet Oil; Sulfanilamide; Mineral Oil; Preparations of Diphenylamine, Benzol, and Turkey Red Oil, Used for Treating Worms in Animals; Calcium and Vitamin Preparations Used for Treating Diarrhea in Calves; Glucose Solution; Preparations of Isopropyl Alcohol, Phenol, Tannic Acid, and Methyl Violet, Used for Treating Superficial Wounds and Scratches in Animals; Liver, Iron, and Vitamin B Capsules; Udder Ointment; Preparations of Barium Chloride, Tartar Emetic, and Nux Vomica; Pituitary Liquids; Canine Mineral Supplement Preparations; Calcium Preparations for Use in Treating Diarrhea in Calves; Phenothiazine Suspensions; Thyroid Tablets; Stilbestrol; Preparations of Epinephrine; Copper Sulfate; Preparations of Malachite Green and Formaldehyde, Used for Antiseptic Solutions; Preparations of Castor Oil, Oil of Thuja, and Salicylic Acid; Preparations of Zinc Oxide and Oil of Thuja, Used for Treating Wounds and Abrasions; Sodium Iodide With Dextrose Solution; Chloral Hydrate With Dextrose Solution; Vitamin B-1; Mineral Preparations for Treating Mineral Deficiencies; Preparations of Ferrous Sulfate, Alum, and Tannic Acid, Used as Local Hemostatics; Camphorated Oil; Calcium Gluconate Solutions; Vitamin A Concentrate; Sodium Iodide; Preparations of Alcohol, Glycerine, Boric Acid, Tannic Acid, Phenol, and Oil of Cassia; Preparations of Calcium and Dextrose for Calcium Deficiencies; Sodium Cacody; Sodium Phospho Carbonate; Preparations of Boric Acid and Dodecylamine Hydrochloride; Preparations of Phenothiazine and Copper Sulfate, Used in the Control of Worm Infestation in Swine; Phenothiazine Preparations Used in the Control of Worm Infestation in Sheep, Cattle, Chickens, and Turkeys; White Liniment; Preparations of Potassium Guaiacol Sulfonate, Ammonium Chloride, and Glycerine; Poultry Inhalant; Phenothiazine Powder; Preparations of Minerals and Vitamins; Vitamin-Containing Preparations Comprising Fish Liver Oil, Wheat Germ Oil, and Cottonseed Oil; Lime and Sulphur Solutions; Preparations of Aloes Curacoa; Calomel, and Strychnine Sulfate; Preparations of Calomel and Aloin; Strychnine Sulfate; Preparations of Red Mercuric Iodide, Chinese Cantharides, Euphorbium, and Turpentine Oil, Used as Ointments; Methenamine Potassium Nitrate; Iron Tablets; Preparations of Calcium, Phosphorous, Sodium Chloride, and Iodine, Used as Mineral Feeding Supplements; Sodium Chloride; Sulfathiazole; Acetone Test Capsules; Sulfanilamide; Sulfathiazole Sodium; Sulfapyridine Sodium; Ascorbic Acid; Mercury Bichloride; Preparations of Cape Aloes, Calomel, Barium Chloride, and Nux Vomica, Used as Equine Purgatives; Organic Iodides for Oral Administration in Cases of Iodine Deficiencies; Preparations of Ammonium Carbonate, Nux Vomica, Capsicum, Ginger, and Oil Cajeput; Methenamine; Tartar Emetic; Potassium Nitrate; Preparations of Ammonium Chloride, Potassium Guaiacol Sulfonate, and Creosote, Used for Poultry To Loosen Mucus in the Throat; Preparations of Calcium Sulfocarbolate, Sodium Sulfocarbolate, Zinc Sulfocarbolate, and Copper Sulfocarbolate; Nux Vomica; Ginger, Barium Chloride and Tartar Emetic; Sulfaguanidine; Calf Capsules; Alum Sodium Nitrate; Tyrothricin Emulsion; Preparations of Oil Chenopodium, Tobacco, Croton Oil, and Naphthalene, Used for Treating Worms; Preparations of Santonin and Calomel, Used for Treating Worms; Preparations of Castor Oil and Oil Chenopodium, Used for Treating Worms; Preparations of Ammonium Chloride, Stramonium, Potassium Dichromate, Lobelia, and Arsenic Trioxide; Isopropyl Alcohol; Preparations of Potassium Iodide, Iodine, and Propylene Glycol; Preparations of Animal Sterol Vitamin D, Used for Treating Rickets; Preparations of Sodium Thiosulfate and Sodium Nitrite, Used in Treating Forage Poisons in Animals; Calcium Gluconate; Sodium Citrate; Preparations of Chloral Hydrate, Potassium Bromide, and Extract of Hyoscyamus, Used as Hypnotic and Sedative; Preparations of Boric Acid and Dodecylamine Hydrochloride, Used as Uterine Antiseptics; and Soluble Iodine Preparations of Iodine and Potassium Iodide.
Claims use since Feb. 27, 1948.

Ser. No. 588,685. E. Fougera & Co., Inc., New York, N. Y. Filed Dec. 2, 1949.

POLYSORB

For Ointment Base.
Claims use since Nov. 28, 1949.

Ser. No. 598,403. Wynlit Pharmaceuticals, Inc., New York, N. Y. Filed May 31, 1950.

WYNLIT

For Pharmaceuticals, a Combination of Vitamin C and and Vitamin P Factors, Blended, Dissolved, and Then Lyophilized for Use as an Injectable—a Combination of Vitamin C and Vitamin P Factors With Excipient Matter To Be Taken Orally.
Claims use since May 10, 1949.

Ser. No. 598,486. Marine Oil Refiners of Africa Limited, Simonstown, South Africa. Filed June 2, 1950.

SOLEXATE

For Vitamin A Concentrates.
Claims use since Jan. 16, 1950; and use in commerce between foreign nations and the United States since Jan. 16, 1950.

Ser. No. 599,028. E. R. Squibb & Sons, New York, N. Y. Filed June 13, 1950.

MECOSTRIN

For Muscle Relaxants.
Claims use since May 29, 1950.

Ser. No. 600,165. Armand Derderian, Haverhill, Mass. Filed July 3, 1950.



For Medicinal Preparation for Relief of Stomach Disorders.
Claims use since Aug. 1, 1949.

Ser. No. 601,381. Schenley Laboratories, Inc., New York, N. Y. Filed July 28, 1950.

TRAVOSYL

For Pharmaceutical Product in Tablet Form for Internal Use as a Relaxant for Spastic and Neurologic Disorders.
Claims use since June 29, 1950.

Ser. No. 602,048. Nopco Chemical Company, Harrison, N. J. Filed Aug. 10, 1950.

NOPCAY

Applicant claims ownership of Registrations Nos. 349,176, 359,712, and others.
For Dry Vitamin-Containing Products for Fortifying Animal and Poultry Foods and Feeds.
Claims use since Mar. 1, 1949.

Ser. No. 602,625. Nopco Chemical Company, Harrison, N. J. Filed Aug. 23, 1950.

nopcol DP

Applicant claims ownership of Registration No. 405,801.
For Fat-Soluble Vitamin Concentrates.
Claims use since April 1947.

Ser. No. 603,104. Armour and Company, Chicago, Ill. Filed Sept. 2, 1950.

ARMULSION

For Intravenous Fat Emulsion.
Claims use since Aug. 10, 1950.

Ser. No. 604,197. Griffin Products, Inc., Indianapolis, Ind. Filed Sept. 29, 1950.

Donkey Griffin

For Medicated Foot Powder.
Claims use since Aug. 15, 1950.

Ser. No. 609,407. La Pryor Milling Co., La Pryor, Tex., assignor to La Pryor Milling Co., La Pryor, Tex., a corporation of Texas. Filed Jan. 30, 1951.

Winter Garden

For Dietary Mineral Supplement for Livestock and Poultry.
Claims use since September 1946.

Ser. No. 616,825. Jackson-Mitchell Pharmaceuticals, Inc., Los Angeles, Calif. Filed July 23, 1951.

Candavite

For Vitamin Preparations in Candy Form.
Claims use since June 16, 1951.

Ser. No. 617,823. The Upjohn Company, Kalamazoo, Mich. Filed Aug. 17, 1951.

Gerizyme

For Lipotropic Preparation.
Claims use since May 23, 1951.

Ser. No. 617,825. The Upjohn Company, Kalamazoo, Mich. Filed Aug. 17, 1951.

Vitatrope

For Lipotropic Preparation.
Claims use since May 23, 1951.

CLASS 19

VEHICLES

Ser. No. 585,471. General Motors-Holden's Limited, Port Melbourne, Victoria, Australia. Filed July 6, 1949. (Sec 2f—Additional evidence.)

HOLDEN

For Automobiles and Structural Parts Thereof.
Claims use since Nov. 29, 1948 in Australia; and in commerce between Australia and the United States since Feb. 22, 1949.

Ser. No. 602,141. Chicago Roller Skate Company, Chicago, Ill. Filed Aug. 14, 1950. (Sec. 2f.)

CHICAGO

Applicant claims ownership of Registration No. 400,292.
For Rollers and Wheels for Dollies.
Claims use since 1906.

Ser. No. 608,220. Rayco Mfg. Co., Paterson, N. J. Filed Dec. 29, 1950.

RIDE WITH Rayco

Applicant claims ownership of Registration No. 506,311.
For Automobile Seat Covers.
Claims use since Aug. 2, 1949.

Ser. No. 611,264. Harold R. Forney, Surprise, Nebr. Filed Mar. 14, 1951.

HOBO

For Extensible Hitches Employed for Coupling a Towing Vehicle to a Trailer or Towed Vehicle Such as a Wagon or the Like.
Claims use since Feb. 2, 1951.

Ser. No. 611,422. General Motors Corporation, Detroit, Mich. Filed Mar. 16, 1951.



For Automobiles and Structural Parts Thereof.
Claims use since Nov. 17, 1948.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Ser. No. 573,193. National Pressure Cooker Company, Eau Claire, Wis. Filed Feb. 2, 1949.

Presto

For Electric Hand Pressing Irons and Steam Electric Hand Pressing Irons.
Claims use since Oct. 14, 1948.

Ser. No. 580,028. M. J. Owens, doing business as United Wire Products Company, Fort Worth, Tex. Filed June 6, 1949.

"PALM BREEZE"

The word "Breeze" is disclaimed.
For Electrically Operated Circulating Type Fans in Circular Housings and Operating on a Vertical Shaft.
Claims use since June 12, 1946.

Ser. No. 606,864. Electro-Matic Products Co., Chicago, Ill. Filed Nov. 24, 1950.

NEUTROLATOR

For Rheostat for Regulating Voltages Applied to Windings of Magnetic Chucks Combined With Mechanism for Demagnetizing the Chucks and Work Pieces Following Grinding or Other Machine Tool Operations on the Work Pieces.
Claims use since Aug. 1, 1950.

Ser. No. 616,431. R. H. Macy & Co., Inc., New York, N. Y. Filed July 13, 1951.

Hyde Park

For Domestic Television Receiving Sets.
Claims use since Aug. 23, 1949.

Ser. No. 617,104. Bishop Manufacturing Corporation, Cedar Grove, N. J., and New York, N. Y. Filed July 30, 1951.

BI-PRENE

Applicant claims ownership of Registration No. 540,697.
For Electrical Insulating Tape.
Claims use since February 1950.

Ser. No. 618,947. Trego, Inc., Boston and South Boston, Mass. Filed Sept. 18, 1951. (Sec. 2f.)

TREGO

Applicant claims ownership of Registration No. 361,542.
For Electric Cable Fittings.
Claims use since Jan. 1, 1935.

Ser. No. 619,104. Price Battery Corporation, doing business under the name Witherbee Storage Battery Co., Hamburg, Pa. Filed Sept. 21, 1951. (Sec. 2f.)

WITHERBEE

Applicant claims ownership of Registrations Nos. 297,803 and 299,413.

For Storage Batteries.

Claims use since Jan. 1, 1930.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Ser. No. 574,205. Caterpillar Tractor Co., Peoria, Ill. Filed Feb. 21, 1949.

CAT

Applicant claims ownership of Registrations Nos. 79,056, 85,816, and others.

For Diesel and Other Internal Combustion Engines Adapted for Employment as the Source of Power for Self-Propelled Vehicles, and as Stationary or Portable Power Units for Industrial, Marine, and Agricultural Uses; Scraping, Carrying and Dumping Units Adapted To Be Employed for Scraping and Collecting Earth, Rock, or Like Materials and Transporting and Dumping Said Materials; Power and Manually Controlled Graders, Scarifiers, Scrapers, and Rippers Adapted To Be Employed for the Construction and Maintenance of Roads, for Moving and Removing of Earth, Rock, Snow, and Like Materials, for Preventing Soil Erosion and for Other Industrial and Agricultural Uses; Tractors for Industrial and Agricultural Purposes; and Parts and Service Tools Furnished With Said Products.

Claims use since Dec. 6, 1948.

Ser. No. 580,240. Hapman Conveyors, Inc., Detroit, Mich. Filed June 10, 1949.

PNEUMATROL

For Sealing Devices for Flight Conveyors—Namely, Tubular Constriction Apparatus Inserted in the Flight Conveyor Conduit for Yieldably and Sealingly Engaging the Peripheries of the Disc Flights To Prevent the Escape of Pressure, Either Liquid or Gaseous, Past the Flights, in Conveyors Serving Pressurized Tanks or Apparatus.

Claims use since Feb. 7, 1947.

Ser. No. 598,541. Outboard, Marine & Manufacturing Company, Waukegan, Ill. Filed June 3, 1950.

Evinrude

For Internal-Combustion-Engine-Powered Outboard Motors and Parts.

Claims use since Apr. 10, 1950.

Ser. No. 602,017. Bahan Textile Machinery Company, Greenville, S. C. Filed Aug. 10, 1950.

BTM

For Weaving Loom Parts Such as Frame Parts, Shafts, Gears, Bolts and Nuts, Shaft Brackets, Shuttle Box Parts, Levers, Bushings, Batteries and Battery Parts, Bobbin Supports and Parts Therefor, Brakes, Bunters, Cams, Pinions, Bearings, Check Strap Holders, Cloth Rolls and Parts Therefor, Clutches and Parts Therefor, Sheaves, Connecting Rods and Parts Therefor, Crank Arms and Parts Therefor, Crank Shafts and Parts Therefor, Daggers and Parts Therefor, Driving Rod Arms and Parts Therefor, Drop Wire Assemblies and Parts Therefor, Feed Pawls and Parts Therefor, Feeler Bars and Parts Therefor, Feeling Fingers and Parts Therefor, Filling Cams and Parts Therefor, Filling Feelers and Parts Therefor, Filling Forks and Parts Therefor, Filling Grates, Filling Knives and Parts Therefor, Filling Motions and Parts Therefor, Filling Slide Levers and Parts Therefor, Friction Clutches and Parts Therefor, Frogs and Parts Therefor, Hand Wheels, Harness Cams and Cam Sets, Jack Hooks, Jack Stick Holders, Knock-Off Motions and Parts Therefor, Latch Depressors and Parts Therefor, Lays and Parts Therefor, Let-Off Motions and Parts Therefor, Pulleys and Parts Therefor, Motor Drives and Parts Therefor, Oscillator Assemblies and Parts Therefor, Pallet Assemblies and Parts Therefor, Parallel Motions and Parts Therefor, Pick Motions and Parts Therefor, Picker Stick Guides, Power Blocks and Parts Therefor, Protector Rods and Parts Therefor, Rocker Shafts and Parts Therefor, Selvage Motions and Parts Therefor, Shipper Mechanism and Parts Therefor, Shuttle Feelers and Parts Therefor, Cloth Roll Supports and Parts Therefor, Starting Rod Assemblies and Parts Therefor, Spring Top Assemblies and Parts Therefor, Take-Up Assemblies and Parts Therefor, Tape Selvage Motions and Parts Therefor, Temples and Parts Therefor, Transfer Assemblies and Parts Therefor, Treadle Assemblies and Parts Therefor, Vibrator Rods and Parts Therefor, Whip Roll Assemblies and Parts Therefor, Worm Crank Shafts and Parts Therefor and Yarn Beam Bearings and Parts Therefor, and for Parts for Spinning Frames, Drawing Frames, Slubbers, Intermediates, Roving Frames, Carding Machines, Winders and Spoolers, Such as Frame Parts, Shafts, Gears, Studs, Bearings and Parts Therefor, Levers and Parts Therefor, Beams and Parts Therefor, Pawls and Parts Therefor, Brakes and Parts Therefor, Brackets and Parts Therefor, Rollers and Parts Therefor, Worms and Component Parts, Drums and Cylinders and Parts Therefor, Plates and Parts Therefor, Head Ends and Parts Therefor, Foot Ends and Parts Therefor, Treadles and Parts Therefor, Spindles and Parts Therefor, Rods and Parts Therefor, Springs, Handles and Parts Therefor, Slides and Parts Therefor, Weights and Parts Therefor, Racks and Parts Therefor, Cranks and Parts Therefor, Screws and Bolts and Pins, Stands and Parts Therefor.

Claims use since Jan. 1, 1933.

Ser. No. 603,060. H. D. Hudson Manufacturing Company, Chicago, Ill. Filed Sept. 1, 1950. (Sec. 2f.)

NU-ACTION

For Hand-Operated Sprayers, Used for Spraying Fly Oils, DDT Solutions, Insecticides, Disinfectants, and Deodorants.

Claims use since Dec. 31, 1936.

Ser. No. 618,813. Peters & Russell, Inc., Springfield, Ohio. Filed Sept. 14, 1951.

Supar

Applicant claims ownership of Registrations Nos. 352,327 and 527,202.

For Exhaust Deflectors for Use on Automobiles.

Claims use since Mar. 1, 1948.

Ser. No. 619,260. Robinson Aviation, Inc., Teterboro, N. J. Filed Sept. 26, 1951.

VIBRASHOCK

For Shock and Vibration Absorbing Mounts for Absorbing Mechanical Vibrations.

Claims use since Oct. 11, 1944.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Ser. No. 555,971. Texas Lawn Sprinkler System, Inc., Dallas, Tex. Filed Apr. 30, 1948.

Electro-matic WATER MISER

The words "Water" and "Electro" are disclaimed.

For Water Valves for Sprinkler Systems, Electric Controls—Namely, Automatic Electrical Timer Which Predetermines the Duration of Operating Periods of Water Sprinkling Systems.

Claims use since Oct. 1, 1947.

Ser. No. 573,524. Bulova Watch Company, Inc., New York, N. Y. Filed Feb. 9, 1949. (Sec. 2f—Additional evidence.)

BULOVA PHOTOTIMER

Applicant claims ownership of Registrations Nos. 226,889, 184,904, and 513,364.

For Photographic Recorder—Namely, a Combination of Photographic Apparatus and Electrical Time Recorder for Use More Particularly in Photographing and Recording the Exact Order of Finish of Contestants in a Race and of the Elapsed Time of Each Contestant.

Claims use since Jan. 17, 1948.

Ser. No. 585,249. A. O. Smith Corporation, Milwaukee, Wis. Filed Sept. 23, 1949.

MAGIC-HEET

The word "Heet" is disclaimed.

For Fluid Expansive Thermal Responsive Regulators for Gas Burners.

Claims use since Aug. 20, 1949.

Ser. No. 612,014. Globe Slicing Machine Co., Inc., Stamford, Conn. Filed Mar. 30, 1951.

GLOBE-STIMPSON

The word "Stimpson" is disclaimed. Applicant claims ownership of Registrations Nos. 421,157, 421,162, and others.

For Computing Commodity Scales for Weighing Food Commodities and the Like.

Claims use since Mar. 20, 1951.

CLASS 27

HOROLOGICAL INSTRUMENTS

Ser. No. 612,894. Fabrique D'Horlogerie Chs. Tissot & Fils Societe Anonyme, Le Locle, Canton of Neuchatel, Switzerland. Filed Apr. 20, 1951. (Sec. 2f.)

CHs.TISSOT&FILS

Applicant claims ownership of United States Registrations Nos. 258,185, 263,633, and others.

For Watches, Dials for Watches and Clocks, Clockworks, Watchcases.

Claims use since 1945; and first used in commerce between the United States and Switzerland in 1945.

Ser. No. 613,692. Montres Nova Biedermann Freres S. A., La Neuveville (Berne), Switzerland. Filed May 8, 1951.

NEUVIL

Applicant claims ownership of Swiss Registration No. 136,367, dated Jan. 6, 1951.

For Watches, Parts of Watches, and Watch Cases.

Ser. No. 617,032. Huga S. A., La Chaux-de-Fonds, Switzerland. Filed July 27, 1951.

HUGEX

Applicant claims ownership of Swiss Registration No. 89,706, dated Dec. 27, 1936.

For Time Pieces Consisting of Clocks and Watches and Parts Thereof.

CLASS 28

JEWELRY AND PRECIOUS-METAL WARE

Ser. No. 583,992. Abe A. Friedman, Augusta, Ga. Filed Aug. 25, 1949.

Shalimar

For Jewelry—Namely, Simulated Pearls, Earrings, and Pearl Necklaces.

Claims use since Mar. 1, 1949.

Ser. No. 606,804. Parco Mfg., Inc., Providence, R. I. Filed Nov. 22, 1950.

White Magic

For Real and Costume Jewelry and Jewelers Findings—Namely, Necklaces, Earrings, Ear Wires, Bracelets, Brooches, Expansion Bands, Cuff Links, Tie Slides, Collar Pins, and Finger Rings All the Foregoing Being Made of Precious Metal in Whole or in Part or Plated With Precious Metal in Whole or in Part.

Claims use since January 1950.

Ser. No. 608,898. Max H. Storch, New York, N. Y. Filed Jan. 17, 1951.

STORKLINE

For Baby Forks, Knives, Cups, Picture Frames, Sold in Sets and Individual Pieces, and Being Made Wholly of Precious Metal or Partially Plated With Precious Metal; Also for Baby Dresser Sets and Toilet Sets Made Up of Brushes and Combs, and Made Partially of Precious Metal.
Claims use since Jan. 2, 1951.

Ser. No. 611,121. William Spratling, Taxco, Gro., Mexico. Filed Feb. 16, 1951.



Applicant claims ownership of Mexican Registration No. 46,543, dated May 27, 1950.
For Jewelry for Personal Wear, Not Including Watches—Namely, Necklaces, Bracelets, Ear Clips, Finger Rings, Ornamental Pins, Brooches, Lockets, Cuff Links, Buckles Made of Precious Metal, Pendants, and Silver Crosses; and Candlesticks Made of Precious Metal and Silver Table Ware.

Ser. No. 617,091. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed July 28, 1951.

Vista

For Pearl Jewelry—Namely, Necklaces, Earrings, and Brooches.
Claims use since January 1948.

Ser. No. 617,092. Joseph H. Meyer Bros., Brooklyn, N. Y. Filed July 28, 1951.

Ultra

For Pearl Jewelry—Namely, Necklaces, Earrings, and Brooches.
Claims use since July 1945.

CLASS 30

CROCKERY, EARTHENWARE, AND PORCELAIN

Ser. No. 608,862. The Fan Company, New York, N. Y. Filed Jan. 17, 1951.

Hana Basha



The English equivalent of the words "Hana Basha" is Flower Cart.
For Vases, Bowls, Plates, Platters, Pitchers, and Trays, Made of Pottery.
Claims use since Nov. 3, 1950.

CLASS 31

FILTERS AND REFRIGERATORS

Ser. No. 607,133. Marc G. Company, Long Beach, N. Y. Filed Nov. 30, 1950.

FILTER WAND

The word "Filter" is disclaimed.
For Filters for Tropical Fish Aquariums.
Claims use since Oct. 16, 1950.

Ser. No. 609,644. H. P. Gott Mfg. Co., Winfield, Kans. Filed Feb. 5, 1951. (Sec. 2f.)

GOTKOOL

For Water Coolers.
Claims use since Sept. 1, 1916.

CLASS 32

FURNITURE AND UPHOLSTERY

Ser. No. 559,028. L & B Products Corporation, New York, N. Y. Filed June 11, 1948.



For Stools, Tables, and Costumers for Use in Restaurants, Lunch Rooms, and the Like.
Claims use since May 1946.

Ser. No. 559,029. L & B Products Corporation, New York, N. Y. Filed June 11, 1948.

LION

For Stools, Tables, and Costumers for Use in Restaurants, Lunch Rooms, and the Like.
Claims use since May 1946.

Ser. No. 600,583. General Furniture Corp., Columbus, Ohio. Filed July 13, 1950.

Berkshire House

For Breakfast and Dinette Sets, Bedroom Furniture—Namely, Beds, Dressers, Chests, Night Tables, Vanities, and Chairs; Dining Room Sets—Namely, Tables, Buffets, Chests, and Chairs; Living Room Furniture—Namely, Sofas, Upholstered Chairs, End Tables, Coffee Tables, Lamp Tables, and Occasional Tables; and Bookcases.
Claims use since July 1, 1949.

Ser. No. 605,348. Burwood Products Company, Traverse City, Mich. Filed Oct. 24, 1950.



The word "Genuine" is disclaimed.
For Display Stands, Book Ends, Picture Frames, Mirror Frames.
Claims use since Feb. 1, 1925.

Ser. No. 606,776. The Holland Shade Company, New York, N. Y. Filed Nov. 22, 1950.

HOLLAND

For Window Shades, Venetian Blinds, and Screens for Domestic Divisional Purposes, Known Also as Room Dividers, Doorway Closures, and Interior Screens.
Claims use since 1921.

Ser. No. 612,744. Howard B. Lansaw, doing business as The Deluxe Manufacturing Company, Huntington, W. Va. Filed Apr. 17, 1951.



"Brucie, Jr."

The representation of the boy shown on the drawing is fanciful.
For Children's Rocking Chairs.
Claims use since Apr. 1, 1950.

Ser. No. 619,364. Ritter Company, Inc., Rochester, N. Y. Filed Sept. 28, 1951.



Applicant claims ownership of Registrations Nos. 263,821 and 263,822.
For Stools.
Claims use since September 1949.

CLASS 34

HEATING, LIGHTING, AND VENTILATING APPARATUS

Ser. No. 621,232. The Swartwout Company, Cleveland, Ohio. Filed Nov. 14, 1951. (Sec. 2f.)

SWARTWOUT

For Feed Water Heaters, Gravity and Powered Roof Ventilators, Stationary and Rotary Roof Ventilators and Louvers and Parts Thereof.
Claims use since 1903.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Ser. No. 564,204. Lead Alloy Products Co., Detroit, Mich. Filed Aug. 26, 1948.

CLAD-SEAL

The word "Seal" is disclaimed.
For Gaskets.
Claims use since Mar. 23, 1948.

Ser. No. 605,859. Kem Manufacturing Co., Inc., Fair Lawn, N. J. Filed Nov. 3, 1950.

Būnalon

For Diaphragms for Fuel and Vacuum Automotive Pumps.
Claims use since Oct. 24, 1950.

Ser. No. 615,807. Universal Packing & Gasket Company, Houston, Tex. Filed June 27, 1951.

UTEX

For Outside Liner Packing for Slush Pumps, Split Gum Rubber Seal Rings, O-Rings for Oil Production Tools, Rubber Outside Liner Sleeves, V-Ring Packing, Semi-V Seal Rings for Slush Pumps, Gaskets for Valve Caps and Cylinder Heads for Pumps, Vulcanized Fiber Gaskets, Steam Packing, Well Head Molded Seal Rings, Neoprene Gaskets, Asbestos Steam Packing, Semi-V Ring Packing for Rotary Swivels on Drilling Rigs, Molded Neoprene Seal Rings, Tan Fiber Gaskets, Hydraulic Packing Rings, Solid Gum Rubber Seal Rings, Neoprene Diaphragm Gaskets, Square Braid Wire Inserted Asbestos Packing, V-Packing Reversing Adaptor, Gum Rubber Gaskets, and Rubber Seal Rings for Water Pumps.
Claims use since Nov. 27, 1950.

Ser. No. 618,506. Pacific Tire & Rubber Company, Oakland, Calif. Filed Sept. 7, 1951.

Pacific TIRES

ICE-TRACTION

The words "Tires" and "Ice-Traction" are disclaimed. The drawing is lined for red and blue.

For Pnuematic Tires Composed of Rubber, Either Natural or Synthetic, Camelback, and Tire Tread Capping Material Composed of Rubber, Either Natural or Synthetic.

Claims use since Aug. 14, 1951.

CLASS 37
PAPER AND STATIONERY

Ser. No. 559,394. West Virginia Pulp and Paper Company, New York, N. Y. Filed Feb. 14, 1948.

MARVA

Applicant claims ownership of Registration No. 424,889.

For Book and Printing Papers.

Claims use since November 1917.

Ser. No. 588,727. A. & J. Machine and Engineering Co., Long Beach, Calif. Filed Dec. 3, 1949.

PHO-NOTE

For Memorandum Attachment for Telephones, Consisting of a Metal Holder for a Movable Strip of Memorandum Paper.

Claims use since Sept. 28, 1949.

Ser. No. 619,885. Koh-I-Noor Pencil Factory L. & C. Hardtmuth, National Corporation, Ceske Budejovice, Czechoslovakia. Filed Oct. 11, 1951.

STADION

Applicant claims ownership of Czechoslovakian Registration No. 1,035, dated Jan. 14, 1921.

For All Kinds of Pencils.

Claims use since Jan. 14, 1921 in Czechlovakia and in commerce with several foreign countries since Jan. 14, 1921.

CLASS 38
PRINTS AND PUBLICATIONS

Ser. No. 618,399. The McNaught Syndicate, Inc., New York, N. Y. Filed Sept. 5, 1951.

THE JACKSON TWINS

The word "Jackson" is disclaimed.

For Daily and Sunday Comic Strip.

Claims use since Nov. 27, 1950.

Ser. No. 618,596. National Appliance Trade-In Guide Company, Madison, Wis. Filed Sept. 10, 1951.

NATIONAL APPLIANCE
Trade-in Guide

The words "Appliance Trade-in Guide" are disclaimed.

For Periodical Publications.

Claims use since March 1951.

Ser. No. 619,418. Gospel Trumpet Company, Anderson, Ind. Filed Sept. 17, 1951.

GREETING CARDS of CHARACTER

The words "Line" and "Greeting Cards of Character" are disclaimed. Applicant claims ownership of Registration No. 348,905.

For Greeting Cards.

Claims use since Aug. 31, 1951.

Ser. No. 619,855. Stamats Publishing Company, Cedar Rapids, Iowa. Filed Oct. 10, 1951.

Silhouette

For Publication Devoted to the Dissemination of Dry Cleaning and Laundry Service Information Published Monthly.

Claims use since Sept. 10, 1951.

CLASS 39
CLOTHING

Ser. No. 535,882. Schloss Bros. & Co. Inc., Baltimore, Md. Filed Sept. 26, 1947.

Brae-Lock

For Men's and Young Men's Suits.

Claims use since Dec. 18, 1940.

Ser. No. 535,983. Mercantile Stores Company, Inc., Wilmington, Del. Filed Sept. 27, 1947.

Jean Sutton

The name "Jean Sutton" is fanciful. Applicant claims ownership of Registrations Nos. 358,996 and 305,292.

For Ladies' Blouses.

Claims use since May 13, 1937.

Ser. No. 551,315. S and B Millinery Company, Toledo, Ohio. Filed Mar. 5, 1948.

S B *Lynne Brooke*

"Lynne Brooke" is a fanciful name.

For Women's Millinery—Namely, Hats and Bonnets.

Claims use since Jan. 15, 1948.

Ser. No. 564,292. Louis H. Salvage, Boston, Mass. Filed Aug. 27, 1948.

Foot Delight SHOES

The word "Shoes" is disclaimed. Applicant claims ownership of Registrations Nos. 239,465 and 321,053.

For Women's Shoes of Leather and Fabric, or Combinations Thereof.

Claims use since Sept. 13, 1933.

Ser. No. 570,364. Gro-Cord Rubber Company, Lima, Ohio. Filed Dec. 13, 1948.

NEO CORK

The word "Cork" is disclaimed. Applicant claims ownership of Registrations Nos. 149,142, 285,219, and others.

For Soles and Heels.

Claims use since Nov. 26, 1948.

Ser. No. 571,092. Ramsey Sportwear Co., Inc., New York, N. Y. Filed Dec. 24, 1948.

Brief-Ons

The word "Brief" is disclaimed.

For Detachable Panties or Bloomers for Women's and Children's Playsuits and Dresses.

Claims use since May 1948.

Ser. No. 577,485. Jordan Marsh Company, Boston, Mass. Filed Apr. 21, 1949. (Sec. 2f as to "Jordan.")

The Jordan "50"

The expression "50" is disclaimed.

For Men's Suits.

Claims use since Mar. 25, 1949 as to the mark shown; and since February 1851 as to the mark "Jordan."

Ser. No. 579,809. Easton Full-Fashioned Hosiery Mills, Inc., Easton, Md. Filed June 1, 1949.

Lady McBeth

The name "Lady McBeth" is fanciful.

For Hosiery.

Claims use since Feb. 5, 1948.

Ser. No. 584,552. Sport-Craft, Inc., New York, N. Y. Filed Sept. 7, 1949. (Sec. 2f.)

Krushabil

For Ladies' and Misses' Dresses, Dress Ensembles, Blouses, Suits, Jackets, Skirts, and Coats.

Claims use since Oct. 15, 1942.

Ser. No. 584,640. Merritt E. Randles, doing business under the name of Randles Manufacturing Company, Ogdensburg, N. Y. Filed Sept. 9, 1949.

RANDCO

For Men's Washable Shirts, Pants, Overalls, and Coveralls; and Hospital Garments—Namely, Washable Patients Gowns, Laboratory Coats, Maids and Nurses Uniforms, Caps and Smocks; and Industrial Garments—Namely, Washable Dresses, Smocks, Wrap-Around Uniforms, Coveralls, Slack Suits, Overalls, Aprons and Caps.

Claims use since Apr. 23, 1949.

Ser. No. 593,190. Sebago-Moc Company, Westbrook, Maine. Filed Feb. 28, 1950.

SEBAGO MOCS

The term "Mocs" is disclaimed.

For Shoes—Namely, Shoes of the Moccasin Type for Men and Women.

Claims use since June 1947.

Ser. No. 596,223. Gem Rubber Corporation, New York, N. Y. Filed Apr. 25, 1950.

Gemflex

For Rain Sandals and Rubbers for Women and Children Made of Latex.

Claims use since 1945.

Ser. No. 599,767. Juliana Lingerie, Inc., New York, N. Y. Filed June 26, 1950.

BRA-GOWN
by
JULIANA

The term "Bra-Gown" is disclaimed. Applicant claims ownership of Registration No. 539,203.

For Women's and Misses' Lingerie—Namely, Ladies' and Misses' Nightgowns and Slips.

Claims use since May 26, 1950.

Ser. No. 600,545. The Charles Meis Shoe Manufacturing Company, Cincinnati, Ohio. Filed July 12, 1950.

Huqettes

Applicant claims ownership of Registration No. 235,101.
For Ladies' Shoes.
Claims use since June 9, 1950.

Ser. No. 602,678. Joseph DeYoung, Inc., Washington, D. C. Filed Aug. 24, 1950.

SiJoJo

For Ladies' and Misses' Shoes, Made of Leather, Rubber, Fabric, and/or Combinations Thereof.
Claims use since Aug. 2, 1950.

Ser. No. 602,709. Paramount Shoe Manufacturing Company, St. Louis, Mo. Filed Aug. 24, 1950.

Josef du Val

The name "Josef du Val" is fanciful.
For Shoes Made Substantially of Leather for Women and Girls.
Claims use since May 1, 1950.

Ser. No. 602,940. Leo Gang, New York, N. Y. Filed Aug. 30, 1950.

LEO-TEX

For Men's and Boys' Under and Outer Shirts, Underwear, Pajamas; Men's, Ladies' and Boys' Hosiery.
Claims use since Nov. 1, 1939.

Ser. No. 603,551. J. P. Smith Shoe Company, Chicago, Ill. Filed Sept. 14, 1950.

Tisshoes

For Shoes for Men and Women.
Claims use since May 16, 1950.

Ser. No. 604,357. Joseph H. Cohen & Sons, Inc., New York, N. Y. Filed Oct. 3, 1950.

THREAD & THIMBLE CLOTHES

The word "Clothes" is disclaimed.
For Men's Clothing—Namely, Suits, Trousers, Coats, and Topcoats.
Claims use since July 25, 1950.

Ser. No. 606,951. Henry Rosenfeld, Inc., New York, N. Y. Filed Nov. 25, 1950.



"Henry Rosenfeld" is the name of the president of the applicant corporation, and consent is of record. Applicant claims ownership of Registration No. 501,276.
For Women's Dresses, Shorts, Halters, Blouses, Slacks, Cloaks, and Suits.
Claims use since October 1943.

Ser. No. 608,067. House of Worsted-Tex, Inc., Baltimore, Md., and Philadelphia, Pa. Filed Dec. 26, 1950.

Tropi-tex

Applicant claims ownership of Registrations Nos. 104,167, 169,798, and others.
For Men's and Young Men's Suits, Coats, Vests, Trousers, Topcoats, and Overcoats.
Claims use since July 1, 1922.

Ser. No. 608,422. Caryl Leslie Creations, Philadelphia, Pa. Filed Jan. 5, 1951.

caryl leslie

The mark "Caryl Leslie" being purely fanciful.
For Garter Belts.
Claims use since Apr. 1, 1950.

Ser. No. 609,524. Allied Stores Corporation, New York, N. Y. Filed Feb. 2, 1951.

AL-MOC

The word "Moc" is disclaimed.
For Women's Sport Shoes Made of Leather, Rubber, Fabric, or a Combination of These Materials.
Claims use since Aug. 9, 1950.

Ser. No. 610,118. Bigley Industries, San Antonio, Tex. Filed Feb. 15, 1951.

Padarounds

For Scuffs for Men, Women, and Children.
Claims use since Jan. 3, 1951.

Ser. No. 610,540. The Birnie Co. Inc., Atlanta, Ga. Filed Feb. 27, 1951.



For Children's Play Suits, Slacks, Jeans, Jackets, Outer Shorts, Boxer Type Shorts, Boxer Type Long Pants, Jodhpurs, Western Pants, Knickers.
Claims use since May 1950.

Ser. No. 611,658. The Printz-Biederman Company, Cleveland, Ohio. Filed Mar. 22, 1951.

A Bardston fashion

The words "A" and "Fashion" are disclaimed.
For Women's and Misses' Coats and Suits.
Claims use since Oct. 1, 1950.

Ser. No. 611,910. Annie Oakley Enterprises, Los Angeles, Calif., assignor to Annie Oakley Enterprises, Inc., Los Angeles, Calif., a corporation of California. Filed Mar. 28, 1951.

ANNIE OAKLEY

"Annie Oakley" is the name of a famous woman sharpshooter, now deceased.
For Women's and Girls' Hats, Jeans, Handkerchiefs, and Scarves.
Claims use since Mar. 6, 1951.

Ser. No. 612,205. Lampl Fashions, Inc., Cleveland, Ohio. Filed Apr. 4, 1951.

TREASURE TONES

For Women's Sweaters, Skirts, Two-Piece Suits Consisting of Skirts and Jackets, Blouses, Casual Dresses and Play Clothes Consisting of Shorts, Bras, T-Shirts, and Skirts.
Claims use since Mar. 12, 1951.

Ser. No. 612,507. Rayfel Hosiery Mills, Inc., Phoenixville, Pa. Filed Apr. 11, 1951.

Crep-O-Lin

The word "Crep" is disclaimed.
For Women's and Girls' Hosiery.
Claims use since Mar. 15, 1951.

Ser. No. 612,970. Nowotny-Burrell & Co., San Antonio, Tex. Filed Apr. 21, 1951.

KICKAPOO

For Moccasins for Men, Women, and Children, and Cowgirl Suits Made of Felt.
Claims use since Mar. 10, 1951.

Ser. No. 614,925. Herbert Bergheim & Co., New York, N. Y. Filed June 8, 1951.

yApré

For Men's Scarfs, Neckties, and Kerchiefs.
Claims use since May 19, 1951.

Ser. No. 615,360. Vista Manufacturing Company, New York, N. Y. Filed June 18, 1951.

VISTA

For Men's Sport Shirts, Jackets, Pajamas, Slacks, and Basque Shirts.
Claims use since May 23, 1951.

Ser. No. 615,471. Eaton & Co. (Rushden) Limited, Rushden, England. Filed June 20, 1951.

Exeldia

Applicant claims ownership of British Registration No. 677,218, dated Feb. 19, 1949.
For Boots and Shoes for the Use of Men, Women, and Children.

Ser. No. 615,609. Maurice L. Rothschild & Company, Chicago, Ill. Filed June 23, 1951.

ROTHLEY

Applicant claims ownership of Registration No. 395,804.
For Ladies' and Men's Wearing Apparel—Namely, Ladies' Coats, Jacket Ensembles, Jackets, Blouses, Outershirts, Skirts, House and Beach Robes, Housecoats, Lounging Pajamas, Sleeping Pajamas, Quilted Pajama Sets, Quilted Bed Jackets, Brassières, Halters, Shorts, Beach Capes, Sun Suits, Pedal Pushers, Slacks, Slack Suits; Men's Jackets, Slacks, and Outershirts.
Claims use since May 21, 1939.

Ser. No. 615,610. Maurice L. Rothschild & Company, Chicago, Ill. Filed June 23, 1951.

ROTHLEY

Applicant claims ownership of Registration No. 395,804.
For Ladies' and Men's Wearing Apparel—Namely, Ladies' Coats, Jacket Ensembles, Jackets, Blouses, Outershirts, Skirts, House and Beach Robes, Housecoats, Lounging Pajamas, Sleeping Pajamas, Quilted Pajama Sets, Quilted Bed Jackets, Brassières, Halters, Shorts, Beach Capes, Sun Suits, Pedal Pushers, Slacks, Slack Suits; Men's Jackets, Slacks, and Outershirts.
Claims use since May 21, 1939.

Ser. No. 616,044. Miles Shoes Incorporated, New York, N. Y. Filed July 3, 1951.

Mary Miles

"Mary Miles" is a fanciful name. Applicant claims ownership of Registration No. 290,547.
For Women's and Children's Shoes, Slippers, and Boots of Leather, Fabric, Elastic, or of Combinations Thereof; Spats, Heels, and Shoe Findings—Namely, Heels, Inner and Outer Soles, Uppers, Tongues, and Toe Caps; and Hosiery.
Claims use since Jan. 2, 1930.

Ser. No. 616,232. The Julian & Kokenge Company, Columbus, Ohio. Filed July 9, 1951.

Footsaver

Applicant claims ownership of Registrations Nos. 157,696 and 396,331.
For Men's, Women's, and Children's Shoes Made of Leather, Fabric, or a Combination of These Materials.
Claims use since Dec. 29, 1920.

Ser. No. 616,283. Excelsior Cloak Manufacturing Co., Philadelphia, Pa. Filed July 10, 1951.

reddi-hem

The word "Hem" is disclaimed.
For Children's Coats.
Claims use since June 25, 1951.

Ser. No. 616,289. Wm. P. Goldman & Bros., Inc., New York, N. Y. Filed July 10, 1951.

Spray Cool

The word "Cool" is disclaimed.
For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets.
Claims use since May 4, 1950.

Ser. No. 616,396. Utilitron Incorporated, Hoboken, N. J. Filed July 12, 1951.

Utili-peds

For Men's, Women's, and Children's Combination Slippers and Socks.
Claims use since Apr. 25, 1951.

Ser. No. 616,479. Hawley Products Company, St. Charles, Ill. Filed July 14, 1951.

GLO-GUIDE

The word "Glo" is disclaimed.
For Helmets.
Claims use since May 22, 1951.

Ser. No. 616,572. Simon Millinery Co., also doing business as Meadowbrook of California, San Francisco, Calif. Filed July 16, 1951.

FLUTED FELT

The word "Felt" is disclaimed, however the distinctive showing of the letter "F" in this word is not disclaimed.
For Ladies' Hats Made in a Substantial Part of Felt.
Claims use since Apr. 19, 1951.

Ser. No. 616,940. Champ Hats, Inc., Philadelphia, Pa. Filed July 26, 1951.

TENNIS CHAMP

The word "Tennis" is disclaimed. Applicant claims ownership of Registrations Nos. 346,141, 387,948, and others.
For Men's and Boys' Hats and Caps.
Claims use since June 28, 1951.

Ser. No. 617,103. Apparel, Inc., Seattle, Wash. Filed July 30, 1951.

PACIFIC TRAIL

The drawing is lined for the color gold.
For Men's and Boys' Jackets—Namely, Golf Jackets, Sport Jackets, Leisure Jackets, Reversible Jackets, Quilted Jackets, With and Without Fur and Fur-Like Collars.
Claims use since Mar. 17, 1945.

Ser. No. 617,109. Cyclops Development Co., Inc., New York, N. Y. Filed July 30, 1951.

C.E.M.A.

For Shoes for Men, Women, and Children.
Claims use since February 1948.

Ser. No. 617,141. Custom Scarfs, Inc., New York, N. Y. Filed July 31, 1951.

ETCETERA

For Scarfs, Ties, Skirts, Blouses, Hats, Gloves Made of Leather, Fabric, or Combinations Thereof, Sweaters, Jerseys, and Jackets for Ladies.
Claims use since June 20, 1951.

Ser. No. 617,318. William Skinner & Sons, Holyoke, Mass., and New York, N. Y. Filed Aug. 3, 1951.

COROLLA

For Men's, Women's, Misses', and Children's Caps, Hats; Sport Coats, Bathing Suits, Beach Robes, House Robes, Bath Robes, Suits, Coats, Overcoats, Raincoats, Sweaters, Knickers; Underwear of Knitted, Netted, and Textile Fabrics; Pyjamas, Hosiery; Women's, Misses', and Children's Collar and Cuff Sets; Neckties, Scarves, Blouses, Smocks, Aprons, Skirts for Outer Wear, Dresses, Kimonos, Negligees, Lingerie—Namely, Dancing Sets and Costume Slips, Bloomers, Drawers, Vests, Chemises; Dress Slips, Petticoats, Nightgowns; Shawls, Children's Rompers; Wedding Gowns; Boys' and Men's Dress, Negligee, and Work Shirts and Undershirts; Ties, Collars, Mufflers, Smoking Jackets, and Sweater Jackets; Women's and Misses' Brassières and Bras; Men's and Children's Wear for Sports—Namely, Basketball, Baseball, Soccer, Track, Lacrosse, Boxing, and Football Uniforms; Women's and Misses' Shorts, and Slacks.
Claims use since July 23, 1951.

Ser. No. 617,530. James N. Banks, doing business as Sunwest Fashions Company, Phoenix, Ariz. Filed Aug. 10, 1951.

SUNWEST

The word "Sun" is disclaimed.
For Women's, Misses', and Children's Dresses.
Claims use since Aug. 1, 1951.

Ser. No. 617,799. Daniel Levitt, New York, N. Y. Filed Aug. 17, 1951.

GAY MISS

The word "Miss" is disclaimed.
For Ladies' and Misses' Girdles, Foundation Garments, Garter Belts, and Brassières.
Claims use since May 1, 1951.

Ser. No. 617,800. Daniel Levitt, New York, N. Y. Filed Aug. 17, 1951.

GAY TEENS

The word "Teens" is disclaimed.
For Ladies' and Misses' Girdles, Foundation Garments, Garter Belts, and Brassières.
Claims use since May 1, 1951.

Ser. No. 617,914. Wm. P. Goldman & Bros., Inc., New York, N. Y. Filed Aug. 21, 1951.

Thoro-Spray

For Men's Suits, Topcoats, Overcoats, Slacks, Sport Coats, and Jackets.
Claims use since Aug. 1, 1951.

Ser. No. 618,025. Cape Ann Manufacturing Company, Gloucester, Mass. Filed Aug. 24, 1951.

MUTUALON

For Men's and Boys' Wearing Apparel—Namely, Coats and Jackets Made of Wool, Cotton, Leather, Nylon, Rayon, and Combinations Thereof.
Claims use since June 28, 1950.

Ser. No. 618,044. George E. Kelly, Pittsburgh, Pa. Filed Aug. 24, 1951.

Annie Oakley

"Annie Oakley" is the name of a famous woman sharpshooter, now deceased.
For Girls' Dresses, Sweaters, Skirts, Belts, Hats, Scarves, Ties, Riding Boots, Leather Jackets, Shoes, Blouses, Handkerchiefs, and Capes.
Claims use since Feb. 22, 1951.

Ser. No. 618,087. Hat Corporation of America, Norwalk, Conn. Filed Aug. 25, 1951.

Crater Crease

The word "Crease" is disclaimed.
For Hats for Men.
Claims use since June 1, 1951.

Ser. No. 618,179. Pincus Bros. Incorporated, Philadelphia, Pa. Filed Aug. 28, 1951.

Northbrooke

Applicant claims ownership of Registration No. 273,276.
For Men's and Boys' Suits, Topcoats, Reefers, Overcoats, Sportcoats, and Men's Slacks.
Claims use since Apr. 1, 1929.

Ser. No. 618,373. J. Schoeneman, Inc., Baltimore, Md. Filed Sept. 4, 1951.

Durella

For Coats, Vests, Trousers, Knickerbockers, Topcoats, and Overcoats for Men, Youths, and Boys.
Claims use since Apr. 20, 1951.

Ser. No. 618,487. A. J. Edlin Manufacturing Co., Inc., St. Louis, Mo. Filed Sept. 7, 1951.

Edith Linn

The name "Edith Linn" is fanciful. Applicant claims ownership of Registration No. 399,292.
For Women's, Girls', Misses', Juniors', and Children's Wearing Apparel—Namely, Blouses, Street Dresses, House Dresses, Playsuits, Slack-Suits, Suits, Skirts, House-Coats, Shorts, Jackets, and Slacks.
Claims use since Jan. 1, 1941.

Ser. No. 618,548. The May Department Stores Company, St. Louis, Mo. Filed Sept. 8, 1951.

Sa-Von

Applicant claims ownership of Registrations Nos. 534,092 and 330,648.
For Men's, Young Men's, and Boys' Suits, Jackets, Slacks, Topcoats, and Women's Shoes Made of Leather.
Claims use since January 1950.

Ser. No. 618,556. Small-Abbott Co., Inc., Freeport, Maine. Filed Sept. 8, 1951.

keni beos

For Moccasins, Shoes, and Hunting Boots for Men, Women, and Children.
Claims use since Aug. 20, 1951.

Ser. No. 618,595. P. W. Minor & Son, Inc., Batavia, N. Y. Filed Sept. 10, 1951.

Rhythm

The outline of the shoe is disclaimed.
For Shoes Made of Leather, Fabric, Imitation Leather, and/or Combinations of Such Materials, for Wear by Men, Women, and Children.
Claims use since July 2, 1951.

Ser. No. 618,674. Bond Stores, Incorporated, New York, N. Y. Filed Sept. 12, 1951.

Peter Bravoni

The name "Peter Bravoni" is the professional name of applicant's shoe designer and consent is of record.
For Women's Shoes.
Claims use since Aug. 9, 1951.

Ser. No. 618,744. John-Frederics, Inc., New York, N. Y. Filed Sept. 13, 1951.

Fredora

For Women's Hats.
Claims use since July 16, 1951.

Ser. No. 618,987. Shoe Corporation of America, Columbus, Ohio. Filed Sept. 19, 1951.

AIR-RIDE

For Imitation Crepe Soles for Men's, Women's, and Children's Shoes.
Claims use since Aug. 15, 1951.

Ser. No. 619,036. Philip Shlansky & Sons, Inc., New York, N. Y. Filed Sept. 20, 1951.

Bouclette

For Ladies' and Misses' Coats, Suits, Jackets, and Outer Skirts.
Claims use since Aug. 14, 1950.

Ser. No. 619,149. Spiegel, Inc., Chicago, Ill. Filed Sept. 22, 1951.

Wear-O-lite

For Soles for Men's and Women's Shoes.
Claims use since July 1951.

Ser. No. 619,235. Famous Bathrobe Co., Inc., New York, N. Y. Filed Sept. 26, 1951.

SMILING BABY

Applicant claims ownership of Registrations Nos. 121,770 and 141,354.
For Infants' Sleeping Bags.
Claims use since July 25, 1917.

Ser. No. 619,283. B. Altman & Co., New York, N. Y. Filed Sept. 27, 1951.

MEADOWBROOK

Applicant claims ownership of Registrations Nos. 101,340, 197,093, and 197,116.
For Women's Hosiery, Shoes, and Gloves.
Claims use since 1925.

Ser. No. 619,505. William H. Gosch, Reading, Pa. Filed Oct. 2, 1951.

Fashonedge

For Ladies' Hosiery.
Claims use since Sept. 22, 1951.

Ser. No. 619,551. Spinnerin Yarn Co., Inc., South Hackensack, N. J. Filed Oct. 3, 1951.

Spinnere

Applicant claims ownership of Registrations Nos. 404,130, 407,338, and 504,466.
For Sweaters for Men, Women, and Children, and Knitted Outerwear, as Follows—Dresses, Scarves, Stoles, Mittens, Gloves, and Neckties.
Claims use since Sept. 24, 1951.

Ser. No. 619,592. Sumner Hosiery Mill, Gastonia, N. C. Filed Oct. 4, 1951.

BASIN STREET

For Lady's Hosiery.
Claims use since Sept. 6, 1951.

Ser. No. 619,672. Alfred Hale Rubber Company, Quincy, Mass. Filed Oct. 6, 1951.

RAJAFOME

Applicant claims ownership of Registrations Nos. 169,375, 170,716, and 292,668.
For Rubber Soles for Shoes.
Claims use since Sept. 4, 1951.

Ser. No. 619,932. Ettelbrick Shoe Company, Greenup, Ill. Filed Oct. 12, 1951.

Range Riders

For Boots and Shoes for Men, Women, and Children, Made of Leather, Fabric, and Combinations Thereof.
Claims use since July 30, 1951.

Ser. No. 620,086. Brill Corset Company, Philadelphia, Pa. Filed Oct. 17, 1951.

DURALIFT

For Brassières.
Claims use since July 13, 1951.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Ser. No. 597,255. Dalbolt, Inc., Keene, N. H. Filed May 11, 1950.

Dalbonized

For Window Draperies, Cottage Window Sets, Tablecloths, Bedspreads, All of Plastic Film; and Textile Fabrics of Cotton, Wool, and Synthetic Fibers.
Claims use since Feb. 15, 1950.

Ser. No. 598,284. Weberei Wallenstadt, Wallenstadt, Switzerland. Filed May 27, 1950.

Wewa

Applicant claims ownership of Swiss Registration No. 102,261, dated June 13, 1942.
For Fabrics in the Piece, Made of Cotton, and Synthetic Fibres, Including Rayon Ones.

Ser. No. 598,285. Weberei Wallenstadt, Wallenstadt, Switzerland. Filed May 27, 1950.



Applicant claims ownership of Swiss Registration No. 102,262, dated June 13, 1942.
For Fabrics in the Piece, Made of Cotton Silk, and Synthetic Fibers, Including Rayon Ones.

Ser. No. 598,613. Wm. Simpson, Sons & Co., Philadelphia, Pa. Filed June 5, 1950.

MOON-BEAM

Applicant claims ownership of Registration No. 204,486.
For Cotton Fabrics and Rayon Fabrics.
Claims use since Apr. 18, 1925.

Ser. No. 622,291. Joseph F. Berlinger Textile Corporation, New York, N. Y. Filed Dec. 10, 1951.

SHADOWBROOK

For Rayon Finished Piece Goods.
Claims use since August 1941.

Ser. No. 622,351. Pace-Maker, Inc., New York, N. Y. Filed Dec. 11, 1951.

ORSTRON

For Textile Fabrics in the Piece of Cotton, Rayon, Protein Fibres, and Mixtures Thereof.
Claims use since Nov. 9, 1951.

Ser. No. 622,472. The Warren Woolen Company, Stafford Springs, Conn. Filed Dec. 13, 1951.

LANACCA

For All Wool Fleece Finished Fabric.
Claims use since Nov. 27, 1951.

Ser. No. 622,503. New Braunfels Textile Mills, New Braunfels, Tex. Filed Dec. 14, 1951.

Mission Valley Fabrics

The word "Fabrics" is disclaimed.
For Piece Goods—Namely, Cotton, Rayon, and Ginghams.
Claims use since Nov. 13, 1951.

Ser. No. 622,938. The J. L. Hudson Company, Detroit, Mich. Filed Dec. 28, 1951.

CHRISTMAS CAROL

For Children's Towels.
Claims use since Nov. 12, 1951.

Ser. No. 622,993. Fisba Fabrics, Inc., New York, N. Y. Filed Dec. 29, 1951.

FOUR-SCORE

For Cotton Fabrics in the Piece.
Claims use since Jan. 22, 1951.

CLASS 43

THREAD AND YARN

Ser. No. 613,325. Glass Fibers, Inc., Waterville, Ohio. Filed Apr. 30, 1951.

Vitron

The drawing is lined for shading. Applicant claims ownership of Registrations Nos. 437,173, 438,599, and others.
For Thread and Yarn.
Claims use since Oct. 30, 1946.

CLASS 46

FOODS AND INGREDIENTS OF FOODS

Ser. No. 532,724. The Loudonville Milling Company, Loudonville, Ohio, assignor to Standard Milling Company, Chicago, Ill., a corporation of Illinois. Filed Aug. 28, 1947.



For Wheat Flour.
Claims use since November 1916.

Ser. No. 545,728. Donahoe's Incorporated, Pittsburgh, Pa. Filed Dec. 30, 1947.

FIFTH AVENUE

Applicant claims ownership of Registrations Nos. 218,561, 350,993, and 307,335.
For Butter.
Claims use since May 1947.

Ser. No. 546,981. B. A. Eckhart Milling Co., Chicago, Ill. Filed Jan. 14, 1948.

WHITE SWAN

For Wheat Flour.
Claims use since Jan. 22, 1897.

Ser. No. 553,597. Flour Mills of America, Inc., doing business as Valier & Spies Milling Company, Kansas City and St. Louis, Mo. Filed Apr. 1, 1948.

FOUR KINGS

For Wheat Flour.
Claims use since January 1947.

Ser. No. 566,050. Helen Engelman Stegle, Elsa, Tex. Filed Sept. 28, 1948.

SUN-UP

Applicant claims ownership of Registration No. 434,860.
For Fresh Citrus Fruits.
Claims use since July 26, 1946.

Ser. No. 570,984. New Iberia Canning Co., Inc., New Iberia, La. Filed Dec. 22, 1948. (Sec. 2f.)

DUNBAR'S

For Canned Vegetables.
Claims use since 1920.

Ser. No. 572,650. Peter Giannini, Santa Clara, Calif. Filed Jan. 24, 1949.

GREEN KREEM

The word "Green" is disclaimed.
For Fresh Vegetables.
Claims use since July 22, 1947.

Ser. No. 575,559. Yieldmor Feeds, Incorporated, Piqua, Ohio. Filed Mar. 16, 1949.



The words "More Meal—More Eggs—More Milk" and "Feeds" are disclaimed.
For Dairy Feeds, the Principal Ingredients of Which Are Soybean Oil Meal, Meat Scraps, Linseed Oil Meal,

Malt Sprouts, Ground Oats, Ground Wheat, Ground Barley, Ground Corn, Dehydrated Alfalfa Meal, Wheat Grsy Shorts, Cane Molasses, Irradiated Yeast, and Minerals; Poultry Feeds, the Principal Ingredients of Which Are Condensed Fish Solubles, Fish Meal, Meat Scraps, Soybean Oil Meal, Dehydrated Alfalfa Meal, Wheat Bran, Wheat Flour Middlings, Ground Oats, Ground Yellow Corn, Ground Barley, Ground Wheat and Minerals and Vitamin Enriched Ingredients; Pig and Hog Feeds, the Principal Ingredients of Which Are Condensed Fish Solubles, Linseed Meal, Soybean Oil Meal, Digester Tankage, Alfalfa Meal, Wheat Flour Middlings, Irradiated Yeast and Minerals.
Claims use since May 15, 1948.

Ser. No. 577,171. Dittmar's Candies, Inc., Chicago, Ill. Filed Apr. 15, 1949. (Sec. 2f.)

Dittmar's

For Candy.
Claims use since 1935.

Ser. No. 577,786. Charles A. Gerber, doing business as Charles A. Gerber Company, Bartlett, Ill. Filed Apr. 27, 1949. (Sec. 2f.)

GERBER'S

For Bread Crumbs Toasted by a Special Toasting Process and Especially Prepared for Use as a Cereal Food Diet for Carnivorous Animals; and for an Animal Feed Having as Its Principal Ingredient Wheat Bread, and Intended for Fox, Mink, and Dogs.
Claims use since January 1937.

Ser. No. 579,144. Spreckels Sugar Company, San Francisco, Calif. Filed May 19, 1949. (Sec. 2f.)

Spreckels Sugar

The word "Sugar" is disclaimed. Applicant claims ownership of Registration No. 281,255.
For Sugar.
Claims use since Aug. 15, 1902 as to the word "Spreckels"; and since 1932 as to the mark shown.

Ser. No. 579,581. Guy Carolin, Amityville, N. Y. Filed May 27, 1949.

FIGURE EIGHT

For Candy and Chewing Gum.
Claims use since May 13, 1949.

Ser. No. 581,227. Harry Woodward, Portland, Oreg. Filed June 28, 1949.

CHICK THE CHICKEN MAN

The word "Chicken" is disclaimed.
For Fried Chicken and Dressed Chicken, Both Fresh and Frozen.
Claims use since Feb. 1, 1945.

Ser. No. 586,477. Faribault Canning Company, Minneapolis, Minn. Filed Oct. 18, 1949. (Sec. 2f—Additional evidence.)

TopValue

Applicant claims ownership of Registration No. 377,244.
For Canned Vegetables.
Claims use since Nov. 15, 1938.

Ser. No. 589,759. American Stores Company, Philadelphia, Pa. Filed Dec. 22, 1949.

PLAY BOY

For Dog Meal.
Claims use since Oct. 30, 1942.

Ser. No. 589,995. Tri-Valley Packing Association, San Francisco, Calif. Filed Dec. 27, 1949.

CADDIE

Applicant claims ownership of Registration No. 141,504.
For Canned Fruits and Canned Vegetables.
Claims use since Mar. 1, 1918.

Ser. No. 590,293. Robert C. Wian Enterprises, Inc., Glendale, Calif. Filed Jan. 3, 1950.



The drawing is lined for the colors blue, red, and yellow or gold. All the wording is disclaimed with the exception of the word "Bob's." Applicant further disclaims the yellow background which appears on the drawing.
For Hamburger Sandwiches.
Claims use since 1938.

Ser. No. 594,366. Julius A. Wunsch, doing business under the name The Cu-Lin Company, New York, N. Y. Filed Mar. 22, 1950.

GLUTATE

For Seasonings Containing Monosodium Glutamate for Soups, Gravies, Vegetables, and Meats.
Claims use since July 2, 1940.

Ser. No. 594,367. Julius A. Wunsch, doing business under the name The Cu-Lin Company, New York, N. Y. Filed Mar. 22, 1950.

TIN FU

The Chinese term "Tin Fu" in English means "Heavenly Capitol."

For Seasonings Containing Monosodium Glutamate for Soups, Gravies, Vegetables, and Meats.

Claims use since Oct. 21, 1947.

Ser. No. 597,334. Gardner Bros., Buffalo, N. Y. Filed May 12, 1950.



The representation of the woman is fanciful.

For Fresh Fruits.

Claims use since June 1, 1946.

Ser. No. 598,168. Downing Taylor Company, Springfield, Mass. Filed May 26, 1950.

BENGAL

For Goods in Cans—Namely, Peas, Corn, Tomatoes, and Coffee.

Claims use since January 1925.

Ser. No. 601,391. Carl R. Ingling, Frederick, Md. Filed June 15, 1950.

Sea Spray

The word "Sea" is disclaimed.

For Ocean Salt Crystals Evaporated From Ocean Water and Containing Mineral Supplements Nutritious for Livestock, Poultry, and Human Consumption.

Claims use since May 1, 1950.

Ser. No. 603,228. General Mills, Inc., Wilmington, Del., and Minneapolis, Minn. Filed Sept. 7, 1950.

REX DIAMOND

For Wheat Flour.

Claims use since May 9, 1932.

Ser. No. 603,516. The Bol Manufacturing Company, Chicago, Ill. Filed Sept. 14, 1950.

BOL-ZERT

For Gelatine Dessert.

Claims use since Aug. 14, 1950.

Ser. No. 604,721. Destilerias Munoz Galvez, S. A., Murcia, Spain. Filed Oct. 11, 1950.

OPTIMA

Applicant claims ownership of Spanish Registration No. 229,980, dated Oct. 29, 1949.

For Red Pepper (Spanish Paprika).

Ser. No. 605,190. Akin Products Company, Mission, Tex. Filed Oct. 20, 1950.

Val-Tex

For Canned Vegetables, Tomato Puree, Tomato Sauce, Canned Grapefruit Sections, and Canned Grapefruit Juices for Food Purposes.

Claims use since Dec. 1, 1938.

Ser. No. 607,810. Walter A. Hallauer, doing business as Wapato Packing, Wapato, Wash. Filed Dec. 18, 1950.

RIVERLAND

For Canned Asparagus.

Claims use since August 1939.

Ser. No. 608,806. Albert J. Ashkar, doing business as Albert J. Ashkar Co., Los Angeles, Calif. Filed Jan. 16, 1951.

BEST POINT

The word "Best" is disclaimed.

For Fresh Vegetables.

Claims use since Dec. 20, 1950.

Ser. No. 609,084. Ghianda Ranch, Thermalito and Oroville, Calif. Filed Jan. 22, 1951.

Rosa DE Oro

For Fresh Deciduous Fruits, Fresh Citrous Fruits, Dried Fruits, and Fresh Figs.

Claims use since October 1926.

Ser. No. 609,303. Benjamin Lipitz Co., Philadelphia, Pa. Filed Jan. 26, 1951.

Polski Orzel

The English translation of the mark is "Polish Eagle." The word "Polski" is disclaimed.

For Canned Tomatoes, Canned Sauerkraut, and Pickles.

Claims use since May 1949.

Ser. No. 610,813. Zoo-Mac, Incorporated, St. Louis, Mo. Filed Mar. 3, 1951.

ZOO-MAC

For Macaroni Products Manufactured in the Shape of Miniature Animals.

Claims use since May 17, 1950.

Ser. No. 611,803. Oxo, Limited, London, England. Filed Mar. 26, 1951.

LEMCO

Applicant claims ownership of British Registration No. 199,368, dated Nov. 10, 1896.

For Extract of Beef.

Ser. No. 612,134. Pedro Pinto, Guatemala Coffee Grower, Carmel, Calif. Filed Apr. 2, 1951.



PEDRO PINTO

The notation "Pedro Pinto" is fictitious.

For Coffee.

Claims use since Jan. 1, 1950.

Ser. No. 612,168. Frank G. Hough, doing business under the name of Frank Hough & Co., Yakima, Wash. Filed Apr. 3, 1951.

AUTUMN GLOW

For Fresh Apples.

Claims use since Sept. 16, 1950.

Ser. No. 612,797. Fareway Stores, Inc., Ames, Iowa. Filed Apr. 18, 1951.

FASTCO

For Fresh Eggs and Butter.

Claims use since Mar. 1, 1942.

Ser. No. 613,126. Genoa Fisheries, Inc., Boston, Mass. Filed Apr. 25, 1951.

Haddlets

For Frozen Haddock Fillets.

Claims use since Sept. 15, 1950.

Ser. No. 614,086. Hartz Mountain Products, New York, N. Y. Filed May 19, 1951. (Sec. 2f.)

HARTZ MOUNTAIN

Applicant claims ownership of Registrations Nos. 309,717 and 348,673.

For Pet Foods—Namely, Feeds for Birds, Fish, Dogs, and Turtles.

Claims use since January 1930.

Ser. No. 615,536. Can-Meat Corp., New York, N. Y. Filed June 22, 1951.

MAGNIFICO

For Meat Products—Namely, Canned Sausage, and Canned Potted Meat.

Claims use since June 1949.

Ser. No. 616,574. Tennessee Packers, Inc., Clarksville, Tenn. Filed July 16, 1951.

FROSTY MORN

For Lard; Salami; Bologna; Cooked Loaf Containing Beef, Pork, Milk, and Other Ingredients; Chili Con Carne; Ham; Sliced Bacon; Pork Sausage (Hot); Pork Sausage; Smoked Boneless Ham; Smoked Picnic (a Pork Shoulder Cut); Liver Cheese; Quality Loaf Containing Beef, Pork, and Spices; Cooked Ham (Barbecue Sauce Added Browned by Flame); Imitation Chicken Loaf Containing Pork Head Meat, Pork Stomachs, Pork Skins, and Flavoring; Canadian Style Bacon; Skinless Weiners; Cooked Ham (Covered With Brown Sugar Browned by Flame); and Cooked Ham (Gelatin Added).

Claims use since October 1942.

Ser. No. 617,302. Mid-West Producers' Creameries, Inc., South Bend, Ind. Filed Aug. 3, 1951.

Valley Lea

Applicant claims ownership of Registrations Nos. 332,774 and 537,903.

For Creamed Cottage Cheese, Colby Type Cheese in Longhorn and Single Daisy Styles, Cheddar Cheese in Longhorns, Daisies, Cheddars, and 2, 5, and 10 Pound Loaves of Rindless Type Cheddar Cheese.

Claims use since Nov. 1, 1934.

Ser. No. 617,716. Kraft Foods Company, Chicago, Ill. Filed Aug. 15, 1951.

CASINO

Applicant claims ownership of Registration No. 520,452.

For Cheese and French Dressing.

Claims use since 1907.

Ser. No. 617,782. Cardinal Distributing Company, Indio, Calif. Filed Aug. 17, 1951.

DEVIL'S Garden

The word "Garden" is disclaimed.

For Fresh Tomatoes and Fresh Grapes.

Claims use since July 15, 1951.

Ser. No. 617,974. Staley Milling Company, North Kansas City, Mo. Filed Aug. 22, 1951.

Bullets

The drawing is lined for red.

For Hog Feed Supplement Composed of Ground Cereal Grains, and Other Ingredients Suitable for Hogs.

Claims use since June 8, 1948.

Ser. No. 617,975. Staley Milling Company, North Kansas City, Mo. Filed Aug. 22, 1951.

Golden Bullets

The drawing is lined for gold.
For Hog Feed Supplement Composed of Ground Cereal Grains, and Other Ingredients Suitable for Hogs.
Claims use since Sept. 11, 1950.

Ser. No. 618,002. Nestlé's Chocolate Company, Inc., New York, N. Y. Filed Aug. 23, 1951.

FRIGOR

For Prepared Edible Chocolate.
Claims use since Dec. 8, 1950.

Ser. No. 618,003. Nestlé's Chocolate Company, Inc., New York, N. Y. Filed Aug. 23, 1951.

Pagor

For Prepared Edible Chocolate.
Claims use since Dec. 8, 1950.

Ser. No. 618,151. Budget Pack, Inc., Los Angeles, Calif. Filed Aug. 28, 1951.

KRAZY KORN
pops like mad!

The words "Korn" and "Pops Like Mad!" are disclaimed.
For Unpopped Popcorn.
Claims use since Aug. 20, 1951.

Ser. No. 619,270. Sterol Derivatives, Inc., Los Angeles, Calif. Filed Sept. 26, 1951.

bex

For Butter Flavorings for Food Purposes.
Claims use since July 22, 1949.

Ser. No. 619,589. The South China Tea Corporation Limited, Hong Kong, Hong Kong. Filed Oct. 4, 1951.

Cocktail

For Tea.
Claims use since Mar. 6, 1949.

Ser. No. 619,911. The Albro Packing Company, Springboro, Pa. Filed Oct. 12, 1951.

Spring CENTER

For Pickles and Pickle Relish, Canned Peppers, and Canned Sauerkraut.
Claims use since May 1951.

Ser. No. 619,912. The Albro Packing Company, Springboro, Pa. Filed Oct. 12, 1951.

WISŁA

For Pickles.
Claims use since May 15, 1950.

Ser. No. 620,173. Skyland Food Corporation, Denver, Colo. Filed Oct. 18, 1951.

SKYMAID

For Canned Apples, Including Sliced Apples.
Claims use since July 23, 1951.

Ser. No. 620,227. Panzer Packing Co. Inc., Baltimore, Md. Filed Oct. 19, 1951. (Sec. 2f.)

PANZER GOETZE

Applicant claims ownership of Registrations Nos. 416,057, 527,501, and others.
For Pickles, Chili Sauce, Sandwich Spread, Mayonnaise, and Salad Dressing.
Claims use since June 15, 1944.

Ser. No. 620,315. Lee & Cady, Detroit, Mich. Filed Oct. 22, 1951.

VAL-U-WAY

For Coffee.
Claims use since May 10, 1951.

Ser. No. 620,495. Cutler Growers Exchange, Cutler, Calif. Filed Oct. 26, 1951.

Emro-Hill

For Fresh Vegetables and Fresh Deciduous Fruits.
Claims use since October 1947.

Ser. No. 620,496. Cutler Growers Exchange, Cutler, Calif. Filed Oct. 26, 1951.



For Fresh Vegetables and Fresh Deciduous Fruits.
Claims use since October 1947.

Ser. No. 620,588. Boldemann Chocolate Co., Inc., San Francisco, Calif. Filed Oct. 29, 1951.



For Candy.
Claims use since May 3, 1951.

Ser. No. 620,589. William Boyd, Beverly Hills, Calif. Filed Oct. 29, 1951.

Hoppy's

For Bread and Fluid Milk.
Claims use since May 1, 1951.

Ser. No. 620,923. Manbeck and Kissinger, Fredericksburg, Pa. Filed Nov. 6, 1951.



The words "Manbeck and Kissinger" are disclaimed.
For Dressed Whole and Cut-Up Poultry and Fresh Eggs.
Claims use since Dec. 1, 1950.

Ser. No. 622,418. Standard Milling Company, Chicago, Ill. Filed Dec. 12, 1951.

ARISTOS

Applicant claims ownership of Registrations Nos. 208,270 and 311,265.
For Flour Mix for Use in Making Hot Breads, Pastries, Pancakes, and Waffles.
Claims use since Aug. 21, 1951.

CLASS 50

MERCHANDISE NOT OTHERWISE CLASSIFIED

Ser. No. 600,900. Claude W. Lowther, Cincinnati, Ohio. Filed July 19, 1950.

"PASTIMER"

For Blackboards.
Claims use since Apr. 17, 1950.

CLASS 51

COSMETICS AND TOILET PREPARATIONS

Ser. No. 580,149. Ronjo Products Corporation, New York, N. Y. Filed June 8, 1949.

COSMEDI
by Ronjo

For Medicated Talcum Powder, Face Powder, Make-Up Powder, Face Creams, and Hand Creams.
Claims use since Nov. 27, 1948.

SERVICE MARKS

CLASS 100

MISCELLANEOUS

Ser. No. 578,795. Horseless Carriage Club, West Los Angeles, Calif. Filed May 13, 1949. (Classified in Class 101.)
The drawing is lined for the colors red, blue, and black. The statement "Founded in Los Angeles Nov. 14, 1937" is disclaimed.
See this serial number in Class 101 for goods and mark.
Claims use since May 1, 1938.

Ser. No. 579,810. Electric Steel Foundry, Portland, Oreg. Filed June 1, 1949.

ESCO

Applicant claims ownership of Registration No. 259,550.
For Consulting and Engineering Services Rendered for Others in the Origination, Designing, Development, and Improvement of Special Purpose Processes, Methods, Machines, Equipment, and Devices.
Claims use since Jan. 1, 1929.

Ser. No. 581,520. California Crematorium, Oakland, Calif. Filed July 5, 1949.

Chapel of the Chimes

Applicant claims ownership of Registration No. 370,682.
For Directing Funerals, and Cremating of the Dead.
Claims use since November 1928.

Ser. No. 588,027. Hall Laboratories, Incorporated, Pittsburgh, Pa. Filed Nov. 18, 1949. (Sec. 2f.)

HALL SERVICE

The word "Service" is disclaimed.
For Chemical Engineering Services—Namely, Making Surveys and Inspections of Industrial and Public Utility

Plants, Particularly in Connection With Treatment, Use, and Disposal of Water for Boiler, Process, and General Industrial Purposes, Analyzing Samples of Waters and Deposits, Evaluating Conditions and Procedures, and Recommending Improved Engineering Practices based upon the Foregoing Surveys, Inspections, and Analyses.
Claims use since March 1928.

Ser. No. 394,867. Sundstrand Machine Tool Co., Rockford, Ill. Filed Mar. 29, 1950. (Sec. 2f.)

Engineered Production

For Engineering Advisory Services With Respect to Designs for Machinery and Methods of Using Machinery, Particularly Milling Machines, Pumps, and the Like.
Claims use since March 1933.

Ser. No. 601,969. Harry C. Winkler, doing business as The Historical Association, Willoughby, Ohio. Filed Aug. 8, 1950.



For Registration of Antiques, Heirlooms, and Collectables Comprising the Recording of the Origin and Pertinent Facts Surrounding Such Antiques, Heirlooms, and Collectables and Providing Authorized Certificates of Registration and Data to Concerned Individuals.
Claims use since June 3, 1950.

Ser. No. 606,244. Sun 'n Sand Hotel Courts, Inc., Daytona Beach, Fla. Filed Nov. 10, 1950.

Sun'n Sand

For Providing Lodgings in a Motor Court.
Claims use since June 9, 1949.

Ser. No. 618,407. Structural Clay Products Research Foundation, Chicago, Ill. Filed Sept. 5, 1951.

SCR

The lining on the drawing is not intended to indicate color but rather is intended to form a part of the mark.
For Research and Development in New Products, Applied Uses of Known Products, and Fundamental Research in All Forms of Structural Clay Products Which Is Made Available to Members of the Structural Clay Products Industry.
Claims use since May 7, 1951.

CLASS 101

ADVERTISING AND BUSINESS

Ser. No. 578,795. Horseless Carriage Club, West Los Angeles, Calif. Filed May 13, 1949. (Sec. 2f.)



The drawing is lined for the colors red, blue, and black. The statement "Founded in Los Angeles Nov. 14, 1937" is disclaimed.
For Advertising, and Collecting and Disseminating Information Concerning Old Time Automobiles and Their Accessories Through Publications and Otherwise Principally to Its Members and Other Automotive Antiquarians.
Claims use since May 1, 1938.

CLASS 102

INSURANCE AND FINANCIAL

Ser. No. 612,804. Hoosac Savings Bank, North Adams, Mass. Filed Apr. 18, 1951.

On the Sunny Side of the Street

For Processing and Handling of Deposits and Withdrawal in Checking and Savings Accounts, and Mortgage and Loan Financing.
Claims use since January 1946.

CLASS 103

CONSTRUCTION AND REPAIR

Ser. No. 594,145. Petroleum Maintenance Company, Wilmington, Calif. Filed Mar. 17, 1950.

PEMCO

For Construction, Maintenance, and Repair Services Rendered to the Petroleum Industry—Namely, the Construction of Oil Terminals, Warehouses, Garages, Tank Farms, Office Buildings; the Maintenance and Repair of All Modern Refinery Equipment, Plants and Instruments; the Cleaning and Repair of Oil Tanks, Tank and Refinery Painting, and the Assembling and Installation of Oil Well Pipe and Pipelines.
Claims use since July 5, 1944.

CLASS 105

TRANSPORTATION AND STORAGE

Ser. No. 579,861. Continental Air Lines, Inc., Denver, Colo. Filed June 2, 1949.

CONTINENTAL AIR LINES

The words "Air Lines" are disclaimed. The drawing is lined for the colors red and blue.
For Air Transportation of Passengers and Cargo.
Claims use since Apr. 27, 1941.

Ser. No. 606,325. Republic Van and Storage Co., Inc., Los Angeles, Calif. Filed Nov. 13, 1950.



The wording "Easy Moving" is disclaimed.
For Transportation by Truck of Household Goods.
Claims use since Apr. 1, 1950.

Ser. No. 608,431. Orient Express Incorporated, Duluth, Minn., assignor to Jeno F. Paulucci, Duluth, Minn. Filed Jan. 5, 1951.

ORIENT EXPRESS

The word "Express" and the outline map of the United States are disclaimed.
For Transportation of Freight by Motor Truck.
Claims use since Nov. 15, 1950.

CLASS 107

EDUCATION AND ENTERTAINMENT

Ser. No. 557,242. General Teleradio, Inc., Carteret, N. J., by change of name from Bamberger Broadcasting Service Incorporated. Filed May 18, 1948.

Martha Deane

The mark is the name of a fictitious character.
For Information Service Rendered Through the Medium of a Radio Program Featuring Household Hints, News Commentaries, Personal Interviews, Round-Table Discussions, and Debates of Interest to Radio Listeners.
Claims use since Dec. 31, 1934.

Ser. No. 617,191. Margaret Gordon, New York, N. Y. Filed Aug. 1, 1951.

"THE MEL-O-DOTS"

For Entertainment Service Rendered by a Musical Instrumental and Vocal Group Through Personal Appearances.
Claims use since Nov. 27, 1950.

TRADE-MARK REGISTRATIONS GRANTED

ACT OF 1905

444,685. Men's, Women's, and Children's Hats and Hat Bodies. Merrimac Hat Corporation, Amesbury, Mass., and New York, N. Y.
Filed Aug. 24, 1946, Serial No. 507,995. Published July 17, 1951. Class 39.

444,686. Cameras for Three-Dimensional Pictures, Photographic Projection Printers, and Stereoscopic X-Ray Cameras. Douglas F. Winnek, Glen Cove, N. Y.
Filed Mar. 24, 1947, Serial No. 519,502. Published Dec. 18, 1951. Class 26.

ACT OF 1946, PRINCIPAL REGISTER

558,178. Non-Soap Detergent Put Up in Commercial Sized Containers Which Will Be Sold Exclusively for Purposes Other Than Household Use. The Diversey Corporation, Chicago, Ill.
Original filed, act of 1905, Feb. 6, 1946; amended to application under act of 1946, Principal Register, Aug. 2, 1947, Serial No. 496,070. Published Mar. 23, 1948. Class 52.

558,179. Granular Chemical Products Sold in Bulk Containers for Use in Cleaning Machinery and Utensils in the Dairy, Food and Beverage Industries. The Diversey Corporation, Chicago, Ill.
Original filed, act of 1905, Dec. 6, 1946; amended to application under act of 1946, Principal Register, Aug. 2, 1947, Serial No. 513,811. Published Jan. 4, 1949. Class 52.

558,180. Aluminum Alloy Glazing Bar Used for Roof and Sidewall Glazing. Williams & Williams Limited, Chester, England, assignor to Aluminex Incorporated, Los Angeles, Calif.
Original filed, act of 1905, May 28, 1947; amended to application under act of 1946, Principal Register, Apr. 11, 1949, Serial No. 523,225. Published Jan. 15, 1952. Class 12.

558,181. Refrigerated Locker Units. William McKinley Baird, Chicago, Ill.
Filed July 10, 1947, Serial No. 528,245. Published Aug. 10, 1948. Class 31.

558,182. Baking Mixes for Making Pie Crust, Hot Rolls, Coffee Cake, Cookies, Tarts, Turnovers, Cobblers, Meat Pies, Cheese Straws, and Cakes. Kitchen Art Foods, Inc., Chicago, Ill.
Filed Aug. 26, 1947, Serial No. 532,463. Published Feb. 12, 1952. Class 46.

558,183. Slips, Petticoats, Nightgowns, Pajamas, Lounging Pajamas and Robes, Etc. Rainbow Shops, Inc., Brooklyn, N. Y.
Filed Sept. 16, 1947, Serial No. 534,672. Published Sept. 13, 1949. Class 39.

558,184. Women's, Misses', and Junior Misses' Dresses, Frocks, and Blouses. Alex Carafiol, Inc., St. Louis, Mo.
Filed Sept. 19, 1947, Serial No. 534,997. Published Oct. 9, 1951. Class 39.

558,185. Window Screens. Rudiger-Lang Co., Berkeley, Calif.
Filed Oct. 13, 1947, Serial No. 537,733. Published Jan. 29, 1952. Class 12.

558,186. Lubricating Grease. United Petroleum Corporation, Omaha, Nebr.
Filed Nov. 26, 1947, Serial No. 542,492. Published Dec. 25, 1951. Class 15.

558,187. Liquid Enamels for Drying and/or Baking on Metal Products. Pittsburgh Plate Glass Company, Pittsburgh, Pa.
Filed Dec. 13, 1947, Serial No. 544,279. Published Jan. 1, 1952. Class 16.

558,188. Mounting Hardware for Doors and Windows—Namely, Door Stops, Window Stops, Etc. Edouard Dubied & Cie., Societe Anonyme, Couvet, Neuchatel, Switzerland.
Filed Dec. 20, 1947, Serial No. 544,982. Published Jan. 16, 1951. Class 13.

558,189. Phonograph Needles. Decca Records, Inc., New York, N. Y.
Filed Feb. 7, 1948, Serial No. 549,057. Published Jan. 15, 1952. Class 36.

558,190. Wheat Flour. Flour Mills of America, Inc., doing business as Kansas Flour Mills Company, Kansas City, Mo.
Filed Apr. 1, 1948, Serial No. 553,600. Published Dec. 11, 1951. Class 46.

558,191. Leather Wrist Bands, Elastic Wristband, Anklets, Kneecaps, Athletic Supporters and Suspensories Used for Therapeutic Purposes. Jack Colm, doing business as Fitsrite Products Co., New York, N. Y.
Filed May 15, 1948, Serial No. 557,115. Published Jan. 22, 1952. Class 44.

558,192. Toilet Soaps, Vegetable Soap, Lanolated Soap, Washing Tablets, Shoe Cleaner, Silver Polish, Window Cleaner, Liquid Cleaner for Woodwork and Furniture, Powdered Cleaner Having Water Softener Properties, Wire Pot Cleaners, Upholstery Cleaner, Hair Shampoo, Shaving Cream, and Shaving Soap. Sayman Products Company, St. Louis, Mo.
Filed May 27, 1948, Serial No. 557,961. Published Jan. 29, 1952. Class 4.

558,193. Cement Base Paint for Metal, Stucco, and Concrete. The Paraffine Companies, Inc., San Francisco, Calif., now by change of name, Pabco Products Inc., a corporation of Delaware.
Filed June 5, 1948, Serial No. 558,586. Published Jan. 1, 1952. Class 16.

558,194. Asbestos Fibre Roof Coating and Plastic Asbestos Roof Cement. The American Lubricants Company, doing business as Tiffany Asphalt and Grease Works, Dayton, Ohio.
Filed July 16, 1948, Serial No. 561,545. Published Jan. 15, 1952. Class 12.

558,195. Laprobes Made of Blanket Material. Portland Woolen Mills, Inc., doing business as "Wool O' The West," Portland, Oreg.
Filed Aug. 2, 1948, Serial No. 562,665. Published Feb. 5, 1952. Class 42.

558,196. CONSOLIDATED CERTIFICATE. Manning, Maxwell & Moore, Incorporated, New York, N. Y.
Angle, Check, Globe, and Gate Valves. Filed Aug. 3, 1948, Serial No. 562,717. Published May 29, 1951. Class 13.
Injectors for Feeding Water Into Boilers. Filed May 22, 1951, Serial No. 614,211. Published Sept. 11, 1951. Class 23.

558,197. Insecticides. The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa.
Filed Aug. 31, 1948, Serial No. 564,464. Published Mar. 27, 1951. Class 6.

558,198. Candy. Barricini Inc., New York and Long Island City, N. Y.
Filed Sept. 30, 1948, Serial No. 566,116. Published Dec. 4, 1951. Class 46.

558,199. Canned, Pickled, and Salted Fish. Herrero Hermanos S. A., La Coruna, Spain.
Filed Oct. 7, 1948, Serial No. 566,586. Published Feb. 5, 1952. Class 46.

558,200. Ladies' Millinery—Namely, Hats. Emanuel Oxman, doing business as Philadelphia Hat Company, Philadelphia, Pa.
Filed Oct. 21, 1948, Serial No. 567,425. Published Jan. 29, 1952. Class 39.

558,201. Soap. Colgate-Palmolive-Peet Company, Jersey City, N. J.
Filed Nov. 3, 1948, Serial No. 568,098. Published Sept. 27, 1949. Class 52.

558,202. Grinding Stones, Abrasive Grinding Wheels, Sanding Blocks, Sandpaper, Emery Cloth. Sears, Roebuck and Co., Chicago, Ill.
Filed Dec. 14, 1948, Serial No. 570,514. Published Jan. 22, 1952. Class 4.

558,203. Electrical Temperature Control Mechanism, Consisting of Thermostats, and Combustion Control Mechanism, Together With Transformers and Secondary Control Instruments for Use Therewith. The Delaware, Lackawanna & Western Coal Company, New York, N. Y.
Filed Dec. 27, 1948, Serial No. 571,119. Published Dec. 18, 1951. Class 26.

558,204. Insulator Pads and Protector Pads Made Up of Flexible Wire and Fibre Net and Used in the Construction of Mattresses and Box Springs. Sealy, Incorporated, Chicago, Ill.
Filed Jan. 6, 1949, Serial No. 571,748. Published Feb. 5, 1952. Class 32.

558,205. First Aid Equipment in Kit Form—Namely, Bandages, Etc. The Pac-Kit Company, Greenwich, Conn.
Filed Jan. 19, 1949, Serial No. 572,445. Published Jan. 22, 1952. Class 44.

558,206. Coal. Carl A. Reis, South Carrollton, Ky.
Filed Mar. 18, 1949, Serial No. 575,672. Published Jan. 22, 1952. Class 1.

558,207. Dibutyl Phthalate; and Metal Salts of Sulfonic Acids, Metal Salts of Alkyl Phenols, Oil Soluble Organic Hydroxy Compounds, Sulfur Compounds, Nitrogen and Phosphorus Compounds Useful as Components of Lubricating Oils—Namely, Blending and Compounding Agents, Concentrates, and Additives. Oronite Chemical Company, Wilmington, Del., and San Francisco, Calif.
Filed Mar. 21, 1949, Serial No. 575,778. Published Dec. 25, 1951. Class 6.

558,208. Dibutyl Phthalate; and Metal Salts of Sulfonic Acids, Metal Salts of Alkyl Phenols, Oil Soluble Organic Hydroxy Compounds, Sulfur Compounds, Nitrogen and Phosphorus Compounds Useful as Components of Lubricating Oils—Namely, Blending and Compounding Agents, Concentrates, and Additives. Oronite Chemical Company, Wilmington, Del., and San Francisco, Calif.
Filed Mar. 21, 1949, Serial No. 575,779. Published Dec. 25, 1951. Class 6.

558,209. Dibutyl Phthalate; and Metal Salts of Sulfonic Acids, Etc. Oronite Chemical Company, Wilmington, Del., and San Francisco, Calif.
Filed Mar. 21, 1949, Serial No. 575,780. Published Dec. 25, 1951. Class 6.

558,210. Pore Sealers for Leather, Plastic Upholstery, and Imitation Leathers, and Flexible Finish Coating Lacquers for Said Surfaces. Martin B. Duffy, doing business as The M. B. Duffy Company, Chicago, Ill.
Filed Apr. 2, 1949, Serial No. 576,528. Published Dec. 25, 1951. Class 16.

558,211. Naphtha. The R. J. Brown Company, St. Louis, Mo.
Filed Apr. 11, 1949, Serial No. 576,900. Published Dec. 25, 1951. Class 6.

558,212. Coated Abrasive Products Having a Flexible Backing With an Abrasive Secured to the Backing by an Adhesive. Armour and Company, Chicago, Ill.
Filed Apr. 29, 1949, Serial No. 577,927. Published Jan. 22, 1952. Class 4.

558,213. Marine, House, Roof, Aluminum, Metal, Maintenance, Industrial, Graphic Arts, and Implement Paints, Both Exterior and Interior, and in Ready-Mixed, Paste, or Powder Form; Varnishes; Lacquers; Paint Enamels. The Glidden Company, Cleveland, Ohio.
Filed May 21, 1949, Serial No. 579,275. Published Dec. 25, 1951. Class 16.

558,214. Marine, House, Roof, Aluminum, Metal, Maintenance, Industrial, Graphic Arts, and Implement Paints, Both Exterior and Interior, and in Ready-Mixed, Paste, or Powder Form; Varnishes; Lacquers; Paint Enamels. The Glidden Company, Cleveland, Ohio.
Filed May 21, 1949, Serial No. 579,277. Published Dec. 25, 1951. Class 16.

558,215. Knitted, Netted and Textile Metalized, Coated, and Uncoated Fabrics of Cotton, Etc. Funwood, Inc., Bedford Village, N. Y.
Filed May 24, 1949, Serial No. 579,408. Published June 19, 1951. Class 42.

558,216. Automobile Waxes and Glazes for Cleaning and Polishing Automobile Surfaces, Etc. Franklin Research Company, Philadelphia, Pa.
Filed May 27, 1949, Serial No. 579,589. Published Jan. 22, 1952. Class 4.

558,217. Canned Peaches. Wood Canning Company, Stockton, Calif.
Filed May 27, 1949, Serial No. 579,642. Published Jan. 1, 1952. Class 46.

558,218. Acid and Alkali Resistant Synthetic Resin Base Coating Preparation, and Solvent Therefor, Used To Coat Floors or Tank Surfaces. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed June 9, 1949, Serial No. 580,180. Published Feb. 12, 1952. Class 16.

558,219. Liquid Transparent Resinous Plastic Solution Used as a Sealing and Protective Coating for Wood, Linoleum, Leather, and Similar Surfaces. Fred A. Twomey, doing business as Silkalite Products, Jacksonville, Fla.
Filed July 18, 1949, Serial No. 582,152. Published Jan. 1, 1952. Class 16.

558,220. Heat Insulating Material, in Tape and Sheet Form, Composed Principally of Asbestos. Raybestos-Manhattan, Inc., Passaic, N. J.
Filed Sept. 23, 1949, Serial No. 585,247. Published Jan. 15, 1952. Class 12.

558,221. Slightly Acid Mixture of Metallic Phosphates and Wetting Agents in Powder Form Having Incidental Rust Inhibiting Properties and Adapted To Be Applied to the Surface of Metal To Clean and Prepare It for Painting. Industrial Chemical Products Co., Detroit, Mich.
Filed Oct. 6, 1949, Serial No. 585,847. Published Jan. 29, 1952. Class 52.

558,222. Vibro-Magnetic Inspection Instrument To Detect Flaws in Ferro-Magnetic Materials. Sonoflux Corporation, Houston, Tex.
Filed Dec. 7, 1949, Serial No. 588,971. Published Dec. 18, 1951. Class 26.

558,223. Ready Mixed Gloss Paints, Undercoat Paints, Enamels in the Nature of Paint, Varnishes (Other Than Insulating Varnishes), Washable Distemper Paints, and Wood Stains. Jenson & Nicholson Limited, Stratford, London, England.
Filed Dec. 9, 1949, Serial No. 589,095. Published Jan. 29, 1952. Class 16.

558,224. Rubber Erasers. Eberhard Faber Pencil Company, Brooklyn, N. Y.
Filed Dec. 12, 1949, Serial No. 589,201. Published May 22, 1951. Class 37.

558,225. Ready-Mixed Paints, and Enamels. The Wilbur & Williams Company, Boston, Mass.
Filed Dec. 29, 1949, Serial No. 590,119. Published Jan. 1, 1952. Class 16.

558,226. Aluminum Windows. Alumatic Corporation of America, Milwaukee, Wis.
Filed Jan. 25, 1950, Serial No. 591,392. Published Jan. 15, 1952. Class 12.

558,227. Cast Metal Hand Tool for Planting, Cultivating, and Measuring. Meico Manufacturing Company, Chicago, Ill.
Filed Jan. 25, 1950, Serial No. 591,434. Published Dec. 18, 1951. Class 26.

558,228. Enamels, Asphalt Roof Coatings; Etc. Porter Paint Company, Louisville, Ky.
Filed Jan. 27, 1950, Serial No. 591,585. Published Jan. 29, 1952. Class 16.

558,229. Marine Paints. H. B. Fred Kuhls, Brooklyn, N. Y.
Filed Feb. 1, 1950, Serial No. 591,786. Published Dec. 25, 1951. Class 16.

558,230. Cabinet Mounted Apparatus for the Irradiation of Blood Plasma and Other Liquid Biologics, Comprising a Source of Ultraviolet Irradiations, Reservoirs for Liquids, and Conduits for Passing the Liquids From Said Reservoirs to the Vicinity of the Irradiation Source. Hanovia Chemical and Manufacturing Company, Newark, N. J.
Filed Feb. 6, 1950, Serial No. 592,030. Published Jan. 22, 1952. Class 44.

558,231. Finely Pulverized Limestone for Animal and Poultry Bedding. Limestone Products Corporation of America, Newton, N. J.
Filed Feb. 10, 1950, Serial No. 592,271. Published Jan. 22, 1952. Class 1.

558,232. Fibre Floor or Wall Tile. Midwest Plywood Company, Detroit, Mich.
Filed Feb. 18, 1950, Serial No. 592,716. Published Jan. 15, 1952. Class 12.

558,233. Jeans. Oklahoma Clothing Manufacturers, Oklahoma City, Okla.
Filed Feb. 21, 1950, Serial No. 592,829. Published Dec. 18, 1951. Class 39.

558,234. Road Oil Comprising a Solution of Asphalt in a Volatile Solvent, Etc. The Trinidad Lake Petroleum Company, Limited, Brighton, Trinidad, British West Indies.
Filed Feb. 21, 1950, Serial No. 592,851. Published Jan. 29, 1952. Class 12.

558,235. Internal Preparations as Medicines and Nutritional Adjuvants for Poultry and Other Domestic Animals. Dr. Salsbury's Laboratories, Charles City, Iowa.
Filed Mar. 6, 1950, Serial No. 593,504. Published Dec. 18, 1951. Class 18.

558,236. Pipe Joint Cement, Gas Fitters' Cement, Spud Cement, and Porcelain Cement. J. A. Sexauer Mfg. Co., Inc., New York, N. Y.
Filed Mar. 24, 1950, Serial No. 594,586. Published Jan. 8, 1952. Class 12.

558,237. Antispasmodic Sedative Tablets. Steel Pharmaceutical Co. Inc., New York, N. Y.
Filed Mar. 31, 1950, Serial No. 595,012. Published Dec. 25, 1951. Class 18.

558,238. Ready Mixed Exterior and Interior Paints, Interior and Exterior Paint in Paste Form, Paint Enamels, Varnishes, Wood Stains, Lacquer, Bronzing Liquid, Paint Colors in Oil, and Paint Thinners. The Foy Paint Company, Inc., Cincinnati, Ohio.
Filed Apr. 11, 1950, Serial No. 595,539. Published Dec. 25, 1951. Class 16.

558,239. Embroidered, Printed or Lace-Trimmed Goods, Comprising: Piece Goods, Luncheon Sets, Etc. The American Fabrics Company, Bridgeport, Conn.
Filed Apr. 19, 1950, Serial No. 595,928. Published July 3, 1951. Class 42.

558,240. Chemical Compound in Tablet Form Which Is Useful as an Anti-Asthmatic. E. Bilhuber, Inc., Orange, N. J.
Filed May 2, 1950, Serial No. 596,709. Published Dec. 25, 1951. Class 18.

558,241. Soaps and Detergents for General Use in the Industrial Art. American Alcolac Corporation, New York, N. Y.
Filed May 6, 1950, Serial No. 596,967. Published Jan. 22, 1952. Class 52.

558,242. Preparation for the Treatment and Control of Coccidiosis in Chickens and in Turkeys, for Growth Stimulation in Birds, and for Other Internal and External Remedies in the Treatment of Poultry Diseases. Dr. Salsbury's Laboratories, Charles City, Iowa.
Filed May 8, 1950, Serial No. 597,101. Published Dec. 18, 1951. Class 18.

558,243. Electronic Test Instruments To Be Used by Electronic Engineers, Etc. Electronic Instrument Co., Inc., Brooklyn, N. Y.
Filed May 10, 1950, Serial No. 597,199. Published Dec. 18, 1951. Class 26.

558,244. Shampoos. Eugene Schueller, Paris, France.
Filed May 11, 1950, Serial No. 597,298. Published Jan. 22, 1952. Class 52.

558,245. Cocoanut Oil Shampoos, Etc. Stanley Home Products, Inc., Westfield, Mass.
Filed May 19, 1950, Serial No. 597,792. Published Jan. 22, 1952. Class 52.

558,246. Wheat Flour, Pancake Flour, Buck-Wheat Pancake Flour, Etc. Charles A. Southwick, Jr., doing business under the name and style of Moravian Mills, Hope, N. J.
Filed May 31, 1950, Serial No. 598,393. Published Feb. 12, 1952. Class 46.

558,247. Textile Carpeting. National Automotive Fibres, Inc., Oakland, Calif.
Filed June 2, 1950, Serial No. 598,492. Published Feb. 5, 1952. Class 42.

558,248. Dry Cleaning Soap Compound for Use in Connection With a Dry Cleaning Solvent. Takamine Laboratory, Inc., Clifton, N. J.
Filed June 7, 1950, Serial No. 598,760. Published Jan. 29, 1952. Class 52.

558,249. Modeling Clay. Binney & Smith Company, New York, N. Y.
Filed June 15, 1950, Serial No. 599,147. Published Jan. 22, 1952. Class 1.

558,250. Woolen Piece Goods. Hyman Feld, New York, N. Y.
Filed June 26, 1950, Serial No. 599,755. Published Oct. 16, 1951. Class 42.

558,251. Lacquer Consisting Essentially of Synthetic Resins and Their Solvents. The Barbour Company, St. Louis, Mo.
Filed July 7, 1950, Serial No. 600,320. Published Dec. 25, 1951. Class 16.

558,252. Automatic Feeder for Animals and Birds. Lorraine Lighting Products Co., Brooklyn, N. Y.
Filed July 8, 1950, Serial No. 600,385. Published Feb. 5, 1952. Class 50.

558,253. Pot Cleaners Made of Metallic Material. Metal Textile Corporation, Roselle, N. J.
Filed July 13, 1950, Serial No. 600,603. Published Jan. 22, 1952. Class 4.

558,254. Compositions for Cleaning and Reconditioning Asphalt Tile Floors; Cleaners for Surfaces of Automobiles; Etc. Franklin Research Company, Philadelphia, Pa.
Filed July 11, 1950, Serial No. 600,475. Published Jan. 22, 1952. Class 52.

558,255. Sponge Having a Pocket Therein and a Cake of Soap in Said Pocket. Charles F. J. Dupuy, Allendale, N. J.
Filed July 21, 1950, Serial No. 601,029. Published Jan. 22, 1952. Class 52.

558,256. Dry Cleaning Substance Which May Be Used in Dry or Moist Condition for Removing Spots or Discolorations From Textile Fabrics, Including Garments of Rayon, Wool, Silk, Nylon, and Cotton. Smith Brothers, Plymouth, N. C.
Filed Aug. 2, 1950, Serial No. 601,646. Published Jan. 22, 1952. Class 52.

558,257. Prophylactics. John I. Harris, Nashville, Tenn.
Filed Aug. 4, 1950, Serial No. 601,729. Published Jan. 22, 1952. Class 44.

558,258. Paddle Boards and Kick Boards, the Latter Also Being Known Under the Name of "Flutter Boards." Aqua Glide Company, La Canada, Calif., assignor to Marlowe A. Pichel, La Canada, Calif.
Filed June 6, 1950, Serial No. 601,865. Published Feb. 12, 1952. Class 22.

558,259. Sheathing Material Ordinarily Packaged in Roll Form and Made From Two Sheets of Kraft Paper Laminated Together by an Intermediate Layer of Asphalt so as To Be Adapted for Use in Building and Construction Work. Certain-teed Products Corporation, Ardmore, Pa.
Filed Aug. 10, 1950, Serial No. 602,020. Published Jan. 15, 1952. Class 12.

558,260. Colored Opaque Glass Tiles, Etc. Libbey-Owens-Ford Glass Company, Toledo, Ohio.
Filed Aug. 10, 1950, Serial No. 602,039. Published Jan. 8, 1952. Class 12.

558,261. Pigments and Colors for Paints. Reckitt & Colman Limited, Hull, England.
Filed Aug. 16, 1950, Serial No. 602,286. Published Dec. 25, 1951. Class 16.

558,262. Compositions Comprising the Antibiotics Neomycin and Bacitracin. Commercial Solvents Corporation, New York, N. Y.
Filed Aug. 21, 1950, Serial No. 602,496. Published Dec. 25, 1951. Class 18.

558,263. Shuttlecocks. Willard R. Richards, Warren, Ohio.
Filed Aug. 29, 1950, Serial No. 602,913. Published Feb. 5, 1952. Class 22.

558,264. Industrial Paint Finish. M. A. Bruder & Sons, Incorporated, Philadelphia, Pa.
Filed Sept. 1, 1950, Serial No. 603,044. Published Jan. 1, 1952. Class 16.

558,265. Electro-Sheet Copper Bonded on One Side With Asphalt To Creped, Reinforced, and Waterproof Kraft Paper for Flashings. Wasco Flashing Co., Cambridge, Mass.
Filed Sept. 1, 1950, Serial No. 603,096. Published Jan. 29, 1952. Class 12.

558,266. Floor Polishing Wax—Namely, Paste Floor Wax and Liquid Floor Wax. Brantford Industries Limited, Brantford, Ontario, Canada.
Filed Aug. 29, 1950, Serial No. 603,338. Published Feb. 5, 1952. Class 4.

558,267. Hair Shampoo in Liquid Form. La Maur, Incorporated, Minneapolis, Minn.
Filed Sept. 18, 1950, Serial No. 603,691. Published Dec. 25, 1951. Class 52.

558,268. Benzo-Alcoholic Soap in the Form of Paste. Guido Mazzetti, Rome, Italy.
Filed Aug. 31, 1950, Serial No. 603,717. Published Jan. 22, 1952. Class 52.

558,269. Protective Coatings Having a Base of Gilsonite and Asphalt, Etc. Insul-Mastic Corporation of America, Pittsburgh, Pa.
Filed Oct. 26, 1950, Serial No. 605,455. Published Jan. 29, 1952. Class 12.

558,270. Analgesic and Hypnotic Recommended as a Substitute for Opiates in the Relief of Pains. G. S. Stoddard & Co., Inc., New York, N. Y.
Filed Oct. 28, 1950, Serial No. 605,561. Published Dec. 18, 1951. Class 18.

558,271. Tablets Which Produce a Refreshing and Antiseptic Solution When Mixed With Water and Used as a Vaginal Douche. Dr. Pierre Chemical Company, Chicago, Ill.
Filed Nov. 1, 1950, Serial No. 605,763. Published Jan. 29, 1952. Class 18.

558,272. Accordions. Buegeleisen & Jacobson, Inc., New York, N. Y.
Filed Nov. 13, 1950, Serial No. 606,263. Published Feb. 12, 1952. Class 36.

558,273. Detergent for All Clothes Washing Operations and for Washing All Types of Woolens, Rugs, Carpets, and Textiles. Roberts-Modaber, Inc., Chicago, Ill.
Filed Nov. 13, 1950, Serial No. 606,327. Published Jan. 22, 1952. Class 52.

558,274. Pneumatic Tires and Inner Tubes for Vehicles. Manufacture de Caoutchouc Michelin, Clermont-Ferrand (Puy-de-Dome), France.
Filed Nov. 18, 1950, Serial No. 606,619. Published Feb. 5, 1952. Class 35.

558,275. Canned Oysters, Canned Crabmeat, and Canned Shrimp. McPhillips Packing Corporation, Bayou La Batre, Ala.
Filed Nov. 28, 1950, Serial No. 607,031. Published Dec. 4, 1951. Class 46.

558,276. Canned Fish. Safeway Stores, Incorporated, Baltimore, Md., and Oakland, Calif.
Filed Dec. 1, 1950, Serial No. 607,195. Published Dec. 25, 1951. Class 46.

558,277. Lip Rouge Compositions. Lorene Grigsby Grate, doing business as Lorene Grigsby, Miami, Fla.
Filed Dec. 19, 1950, Serial No. 607,857. Published Dec. 25, 1951. Class 51.

558,278. Steel Sash Window Frames and Steel Sash Metal Surrounds. Radford Supply Company, Glendale, Calif.
Filed Dec. 20, 1950, Serial No. 607,901. Published Jan. 15, 1952. Class 12.

558,279. Boys' and Girls' Caps, Jackets, Sweaters, Outer Shirts, Etc. Grand Aerie Fraternal Order of Eagles, Kansas City, Mo.
Filed Dec. 22, 1950, Serial No. 607,998. Published Dec. 25, 1951. Class 39.

558,280. Quick Drying Enamels, House Paint, and Flat Paint. Hockaday, Inc., Chicago, Ill.
Filed Dec. 22, 1950, Serial No. 608,003. Published Dec. 25, 1951. Class 16.

558,281. Clinical Thermometers, Surgeons' Gloves (Rubber), Catheters, Colon Tubes, Rectal Tubes, and Rubber Hot Water Bottles. Will Ross, Inc., Milwaukee, Wis.
Filed Dec. 26, 1950, Serial No. 608,083. Published Jan. 22, 1952. Class 44.

558,282. Hand Lotions and Skin Fresheners. Walter J. Nash, doing business under the name and style of Wanasco Laboratories, Omaha, Nebr.
Filed Dec. 29, 1950, Serial No. 608,212. Published Jan. 29, 1952. Class 51.

558,283. Power Shovel and Loader Bucket Level Indicators, Particularly Used on Apparatus Having Shovels or Buckets Pivotally Mounted on Vertically Swingable Arms. Ottawa Steel Products, Inc., Ottawa, Kans.
Filed Jan. 6, 1951, Serial No. 608,471. Published Dec. 18, 1951. Class 26.

558,284. CONSOLIDATED CERTIFICATE. Geuder, Paeschke & Frey Co., Milwaukee, Wis.
Metal Products as Follows: Pots, Pans, Kettles, Funnels and Strainers. Filed Jan. 29, 1951, Serial No. 609,362. Published Nov. 6, 1951. Class 13.
Milk Stirrers, Shovels, and Can Crushers. Filed Jan. 29, 1951, Serial No. 609,363. Published Oct. 16, 1951. Class 23.
Ironing Tables and Wash Tubs. Filed Jan. 29, 1951, Serial No. 609,364. Published Oct. 23, 1951. Class 24.
Utility Measures of the Character Used in Automobile Service Stations, Garages, Etc., for Dispensing Measured Quantities of Oil, Alcohol, Etc. Filed Jan. 29, 1951, Serial No. 609,365. Published Dec. 18, 1951. Class 26.

558,285. Preserved Lumber—Namely, Lumber Which Has Been Impregnated With a Suitable Preservative Such as Creosote or Toxic Salts. Taylor-Colquitt Co., Spartanburg, S. C.
Filed Jan. 30, 1951, Serial No. 609,423. Published Jan. 15, 1952. Class 12.

558,286. Finished Cotton Fabrics in the Piece. The Millville Manufacturing Company, Philadelphia, Pa.
Filed Feb. 1, 1951, Serial No. 609,488. Published Feb. 5, 1952. Class 42.

558,287. Poultry and Livestock Feeds—Namely, Chick Scratch, Growing Scratch, Hen Scratch, Poultry Supplement, Turkey Balancer, Dairy Balancer, Pig and Hog Balancer, and Turkey Producer. Northrup, King & Co., Minneapolis, Minn.
Filed Feb. 2, 1951, Serial No. 609,565. Published Dec. 4, 1951. Class 46.

558,288. Dry Detergent in Bead or Powder Form for Use in Laundering Clothing Made of Textile Materials, Washing Dishes, Pots and Pans, and Woodwork. Fels and Company, Philadelphia, Pa.
Filed Feb. 7, 1951, Serial No. 609,719. Published Jan. 22, 1952. Class 52.

558,289. Floor Dressing Compositions Applicable by Spraying, Brushing, or Wiping. Abco, Inc., McKeesport, Pa., formerly Apter Bros. & Co., Inc.
Filed Feb. 16, 1951, Serial No. 610,159. Published Jan. 29, 1952. Class 16.

558,290. Toy Crayon, Embroidery, and Paint Sets. Standard Toykraft Products, Inc., Brooklyn, N. Y.
Filed Mar. 10, 1951, Serial No. 611,155. Published Feb. 5, 1952. Class 22.

558,291. Nail Enamel and Lipstick. Revlon Products Corporation, New York, N. Y.
Filed Mar. 17, 1951, Serial No. 611,488. Published Jan. 29, 1952. Class 51.

558,292. Nail Enamel and Lipstick. Revlon Products Corporation, New York, N. Y.
Filed Mar. 17, 1951, Serial No. 611,489. Published Jan. 29, 1952. Class 51.

558,293. Floor Wax. West Disinfecting Company, Long Island City, N. Y.
Filed Mar. 26, 1951, Serial No. 611,821. Published Jan. 8, 1952. Class 4.

558,294. Chemicals and Chemical Compositions Comprising Silica Phosphoric Acid, Silica-Nickel, Silica-Alumina; Alumina-Chromia and Alumina-Platinum-Halogen Used as Catalysts in the Conversion of Organic Compounds, Etc. Universal Oil Products Company, Chicago, Ill.
Filed Mar. 29, 1951, Serial No. 611,983. Published Feb. 5, 1952. Class 6.

558,295. Rayon Fabrics in the Piece. Willow Fabrics, Incorporated, New York, N. Y.
Filed Mar. 29, 1951, Serial No. 611,988. Published Feb. 5, 1952. Class 42.

558,296. Machines for Weighing and Sorting Sheet Material and Machines for Gaging and Classifying Sheet Material. The Aetna-Standard Engineering Company, Youngstown, Ohio.
Filed Apr. 14, 1951, Serial No. 612,642. Published Dec. 18, 1951. Class 26.

558,297. Unfinished Ferrous Castings, Specifically Castings for Parts of Refrigerators, Farm Implements, Motor Trucks, Farm Tractors, and Dairy Equipment. International Harvester Company, Chicago, Ill.
Filed Apr. 18, 1951, Serial No. 612,805. Published Jan. 22, 1952. Class 14.

558,298. Drapery and Upholstery Fabrics Made of Cotton. Linen Guild, Inc., trading as Mead & Montague, New York, N. Y.
Filed Apr. 18, 1951, Serial No. 612,809. Published Feb. 5, 1952. Class 42.

558,299. Medicinal Preparation Used in the Treatment of the Menopause and Other Endocrine Disorders. Organon Inc., Orange, N. J.
Filed Apr. 18, 1951, Serial No. 612,819. Published Dec. 18, 1951. Class 18.

558,300. Camera Tripods. R. J. Pagliuso, doing business as Pagliuso Engineering Company, Glendale, Calif.
Filed Apr. 23, 1951, Serial No. 613,019. Published Dec. 18, 1951. Class 26.

558,301. Awning Fabrics. Glen Raven Cotton Mills, Inc., Glen Raven, N. C.
Filed Apr. 24, 1951, Serial No. 613,063. Published Feb. 5, 1952. Class 42.

558,302. General Analgesic in Tablet Form. Kedrin Pharmacals, Inc., New York, N. Y.
Filed Apr. 24, 1951, Serial No. 613,075. Published Dec. 25, 1951. Class 18.

558,303. Laxative. White Laboratories, Inc., Newark, N. J.
Filed Apr. 25, 1951, Serial No. 613,151. Published Dec. 25, 1951. Class 18.

558,304. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,250. Published Dec. 25, 1951. Class 15.

558,305. Lubricating Oil. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,251. Published Dec. 18, 1951. Class 15.

558,306. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,254. Published Dec. 25, 1951. Class 15.

558,307. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,255. Published Dec. 25, 1951. Class 15.

558,308. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,256. Published Dec. 25, 1951. Class 15.

558,309. Lubricating Oil and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,257. Published Dec. 25, 1951. Class 15.

558,310. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,258. Published Dec. 25, 1951. Class 15.

558,311. Lubricating Oil and Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,260. Published Dec. 25, 1951. Class 15.

558,312. Lubricating Oil and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,262. Published Dec. 25, 1951. Class 15.

558,313. Lubricating Grease. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,263. Published Dec. 25, 1951. Class 15.

558,314. Lubricating Oil and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,265. Published Dec. 25, 1951. Class 15.

558,315. Lubricating Oil and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,266. Published Dec. 25, 1951. Class 15.

558,316. Lubricating Oil. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,267. Published Dec. 25, 1951. Class 15.

558,317. Lubricating Oil and Greases. Tide Water Associated Oil Company, New York, N. Y.
Filed Apr. 27, 1951, Serial No. 613,268. Published Dec. 25, 1951. Class 15.

558,318. Medical Compound Sold as a Lotion for the Relief of Itching Due to Sunburn, Insect Bites, Poison Ivy, Poison Oak, or Other Minor Irritations. Desitin Chemical Co., Providence, R. I.
Filed Apr. 28, 1951, Serial No. 613,292. Published Dec. 25, 1951. Class 18.

558,319. Toy Return Tops. M. Shimmel Sons, New York, N. Y.
Filed Apr. 28, 1951, Serial No. 613,308. Published Feb. 12, 1952. Class 22.

558,320. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed May 3, 1951, Serial No. 613,442. Published Feb. 5, 1952. Class 42.

558,321. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed May 3, 1951, Serial No. 613,443. Published Feb. 5, 1952. Class 42.

558,322. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed May 3, 1951, Serial No. 613,444. Published Feb. 5, 1952. Class 42.

558,323. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed May 3, 1951, Serial No. 613,445. Published Feb. 5, 1952. Class 42.

558,324. Woolen Piece Goods. Forstmann Woolen Co., Passaic, N. J.
Filed May 3, 1951, Serial No. 613,446. Published Feb. 5, 1952. Class 42.

558,325. Knitting Yarn Made of a Combination of Synthetic and Animal Fibers. Emile Bernat & Sons Company, Jamaica Plain, Mass.
Filed May 4, 1951, Serial No. 613,495. Published Feb. 5, 1952. Class 43.

558,326. Golf Balls. Thomas B. Semans, Jr., Philadelphia, Pa.
Filed May 7, 1951, Serial No. 613,608. Published Feb. 12, 1952. Class 22.

558,327. Lipstick, Foundation Cream, Cream Rouge, and Nail Polish. Peter Vest Sales Corporation, New York, N. Y.
Filed May 8, 1951, Serial No. 613,658. Published Jan. 29, 1952. Class 51.

558,328. Lipstick, Foundation Cream, Cream Rouge, and Nail Polish. Peter Vest Sales Corporation, New York, N. Y.
Filed May 8, 1951, Serial No. 613,659. Published Jan. 29, 1952. Class 51.

558,329. Animal Feed Supplement. Bristol Laboratories Inc., Syracuse, N. Y.
Filed May 10, 1951, Serial No. 613,704. Published Dec. 25, 1951. Class 18.

558,330. Seeds—Namely, Vegetable, Flower, and Grass Seeds. Ferry-Morse Seed Co., Detroit, Mich.
Filed May 12, 1951, Serial No. 613,808. Published Jan. 22, 1952. Class 1.

558,331. Textile Rugs. Bigelow-Sanford Carpet Company, Inc., doing business under the name and style Universal Rugs and Carpets, Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware.
Filed May 17, 1951, Serial No. 613,968. Published Feb. 5, 1952. Class 42.

558,332. Textile Rugs. Bigelow-Sanford Carpet Company, Inc., doing business under the name and style Universal Rugs and Carpets, Thompsonville, Conn., assignor to Bigelow-Sanford Carpet Company, Inc., New York, N. Y., a corporation of Delaware.
Filed May 17, 1951, Serial No. 613,969. Published Feb. 5, 1952. Class 42.

558,333. Hair Drier Attachment for Vacuum Cleaners. Alfred L. Jones, Fresno, Calif.
Filed May 17, 1951, Serial No. 613,995. Published Jan. 22, 1952. Class 44.

558,334. Textile Fabrics in the Piece, of Cotton, Rayon, Protein Fibres, and Mixtures Thereof. D. B. Fuller & Co., Inc., New York, N. Y.
Filed May 18, 1951, Serial No. 614,047. Published Feb. 5, 1952. Class 42.

558,335. Detergent for General Cleaning and Laundering. William G. Mercer, doing business as Atlantic Specialties, Westwood, Mass.
Filed May 18, 1951, Serial No. 614,053. Published Jan. 22, 1952. Class 52.

558,336. Optical Lenses. Optical Development Corporation, Chicago, Ill.
Filed May 19, 1951, Serial No. 614,096. Published Dec. 18, 1951. Class 26.

558,337. Wire. The Youngstown Sheet and Tube Company, Youngstown, Ohio.
Filed May 19, 1951, Serial No. 614,116. Published Jan. 22, 1952. Class 14.

558,338. Lace Fabrics in the Piece. I. Zendman, Inc., New York, N. Y.
Filed May 24, 1951, Serial No. 614,327. Published Feb. 5, 1952. Class 42.

558,339. Antiseptic Soap Preparation. G. H. Wood & Company Limited, Toronto, Ontario, Canada.
Filed May 25, 1951, Serial No. 614,476. Published Jan. 29, 1952. Class 52.

558,340. Dental Impression Powder Used for Taking Impressions for Artificial Dentures, and Duplicating Powder for Making Negative Molds From Dental Casts. Opotow Dental Manufacturing Corp., Brooklyn, N. Y.
Filed May 29, 1951, Serial No. 614,509. Published Jan. 22, 1952. Class 44.

558,341. Window Curtains. Bartmann & Bixer, Inc., New York, N. Y.
Filed May 31, 1951, Serial No. 614,533. Published Feb. 5, 1952. Class 42.

558,342. Window Curtains. Bartmann & Bixer, Inc., New York, N. Y.
Filed May 31, 1951, Serial No. 614,534. Published Feb. 5, 1952. Class 42.

558,343. Hair Cream. Parfums Forvil & Dentifrices du Docteur Pierre Reunis, Societe Anonyme, Nanterre (Seine), France.
Filed June 1, 1951, Serial No. 614,641. Published Jan. 29, 1952. Class 51.

558,344. Corrosion Resistant Cement Comprising a Resin and Used for Joining Bricks and Tiles. The Atlas Mineral Products Company of Pennsylvania, Mertztown, Pa.
Filed June 6, 1951, Serial No. 614,806. Published Jan. 29, 1951. Class 12.

558,345. Solder. Alpha Metals, Inc., Brooklyn, N. Y.
Filed June 8, 1951, Serial No. 614,922. Published Jan. 22, 1952. Class 14.

558,346. Packing Rings for Use in Connection With Pipe Joints and Fittings; and Packing Glands for Valves. The Victaulic Company Limited, London, England.
Filed June 14, 1951, Serial No. 615,198. Published Feb. 12, 1952. Class 35.

558,347. Flower Seeds. Germain's, Inc., Los Angeles, Calif.
Filed June 15, 1951, Serial No. 615,214. Published Jan. 22, 1952. Class 1.

558,348. Stainless Steel Mesh for Surgical Use. Davis & Geck, Inc., Brooklyn, N. Y.
Filed June 19, 1951, Serial No. 615,373. Published Jan. 22, 1952. Class 44.

558,349. Sanitary Belts and Sanitary Panty Shields. The Formfit Company, Chicago, Ill.
Filed June 20, 1951, Serial No. 615,450. Published Jan. 22, 1952. Class 44.

558,350. Ladies' and Misses' Shirt Blouses. Livingston & Livingston, New York, N. Y.
Filed June 20, 1951, Serial No. 615,459. Published Feb. 5, 1952. Class 39.

558,351. Galvanized Steel Sheets. Inland Steel Company, Chicago, Ill.
Filed June 27, 1951, Serial No. 615,776. Published Jan. 22, 1952. Class 14.

558,352. Ready-Mixed, Antifouling Bottom Paints. International Paint Company, Inc., New York, N. Y.
Filed July 2, 1951, Serial No. 615,980. Published Jan. 15, 1952. Class 16.

558,353. Chemical Wetting Agent. The A. B. Hill Company, Memphis, Tenn.
Filed July 3, 1951, Serial No. 616,032. Published Feb. 5, 1952. Class 6.

558,354. Thread and Yarn Containing Synthetic Fiber. American Cyanamid Company, New York, N. Y.
Filed July 5, 1951, Serial No. 616,071. Published Feb. 5, 1952. Class 43.

558,355. Thread and Yarn Containing Synthetic Fiber. American Cyanamid Company, New York, N. Y.
Filed July 5, 1951, Serial No. 616,074. Published Feb. 5, 1952. Class 43.

558,356. Coin Meters. New York Telecoin Corporation, New York, N. Y.
Filed July 6, 1951, Serial No. 616,182. Published Dec. 25, 1951. Class 26.

558,357. Metal Angles and Bars of Various Cross Sections and Metal Bands, Etc. Atlantic Steel Company, Atlanta, Ga.
Filed July 10, 1951, Serial No. 616,273. Published Jan. 22, 1952. Class 14.

558,358. Power Transmission Belting, Particularly Balata Belting. Manheim Manufacturing & Belting Company, Manheim, Pa.
Filed July 18, 1951, Serial No. 616,638. Published Jan. 29, 1952. Class 35.

558,359. Rubber Hose and Rubber and Fabric Hose, Elevator Belt, Transmission Belt, and Conveyor Belt. Lee Rubber & Tire Corporation, doing business as Republic Rubber Division, Youngstown, Ohio.
Filed July 18, 1951, Serial No. 616,655. Published Jan. 29, 1952. Class 35.

558,360. Pre-Sensitized Printing Plates for Use on Lithographic Presses. Minnesota Mining & Manufacturing Company, St. Paul, Minn.
Filed July 21, 1951, Serial No. 616,773. Published Dec. 18, 1951. Class 26.

558,361. Quaternary Ammonium Tablets for Use in Sanitizing, Deodorizing, and Disinfecting Eating and Drinking Utensils, Food Industry Equipment, and the Like. Virginia-Carolina Chemical Corporation, Richmond, Va.
Filed July 26, 1951, Serial No. 617,002. Published Feb. 5, 1952. Class 6.

558,362. Fluid and Gas Conducting Hose. C. A. Norgren Co., Denver, Colo.
Filed July 27, 1951, Serial No. 617,050. Published Feb. 5, 1952. Class 35.

558,363. Preparation to Control the Preharvest Drop of Apples. The Dow Chemical Company, Midland, Mich.
Filed July 28, 1951, Serial No. 617,080. Published Jan. 29, 1952. Class 6.

558,364. Textile Fabrics in the Piece Made of Synthetic Fibers. Burlington Mills Corporation, Greensboro, N. C.
Filed Sept. 7, 1951, Serial No. 618,480. Published Feb. 5, 1952. Class 42.

Service Marks

558,365. General Advertising Services—Namely, Supplying Ideas for Newspaper, Radio, Television, Motion Picture, Sound Recordings, Magazine, Outdoor and Bus Card Advertising; Etc. The Answer Man, New York, N. Y.
Filed Nov. 10, 1947, Serial No. 540,693. Published Feb. 5, 1952. Class 101.

558,366. Travel Services—Namely, the Planning and Conducting of Excursions, Tours, and Charter Parties; Chartering All Forms of Transportation Facilities; Arranging Hotel and Resort Reservations; and Procuring for Travellers Railroad, Motor, Steamship, and Airplane Tickets. Kent Harris, doing business under the name Travelworld, Los Angeles, Calif.
Filed July 31, 1948, Serial No. 563,550. Published Feb. 5, 1952. Class 105.

558,367. Services—Namely, the Underwriting of Casualty, Fire, Liability, Compensation, and Indemnity Insurance. Selected Risks Indemnity Company, Branchville, N. J.
Filed Nov. 26, 1948, Serial No. 569,481. Published Feb. 5, 1952. Class 102.

558,368. Scoring or Imprinting a Wet Concrete or Plaster Surface With Lines, Etc. Roland J. Struve, Bell Gardens, Calif.
Filed Dec. 19, 1949, Serial No. 589,602. Published Feb. 5, 1952. Class 106.

558,369. Musical Entertainment by a Group of Instrumentalists Entertaining by Personal Appearances in Public Establishments, at Private Gatherings, and on Public Radio Programs. The Bachelors of Music, Chicago, Ill.
Filed May 25, 1950, Serial No. 598,122. Published Feb. 5, 1952. Class 107.

558,370. Railroad Passenger and Freight Transportation Service. Minneapolis, St. Paul & Sault Ste. Marie Railroad Company, Minneapolis, Minn.
Filed July 26, 1950, Serial No. 601,271. Published Feb. 5, 1952. Class 105.

558,371. Serving and Dispensing Food and Beverages in Restaurants. White Tower Management Corporation, Stamford, Conn.
Filed Oct. 19, 1950, Serial No. 605,186. Published Feb. 5, 1952. Class 100.

558,372. Leasing of Copying Machines and Equipment Used in the Reproduction of Documents, Drawings, Maps, Printed, Typewritten and Written Matter by an Electro-Copying Process. The Haloid Company, Rochester, N. Y.
Filed Feb. 27, 1951, Serial No. 610,557. Published Feb. 5, 1952. Class 101.

Collective Mark

558,373. Automobile Coatings—Namely, Paints, Varnishes, Lacquers, Enamels; Thinners and Reducers, and Paint Primers. National Automotive Parts Association, Detroit, Mich.
Filed Feb. 24, 1949, Serial No. 574,451. Published Dec. 25, 1951. Class 16.

ACT OF 1946, SUPPLEMENTAL REGISTER

These registrations are not subject to opposition.

558,374. (Class 23. Cutlery, Machinery, and Tools, and Parts Thereof.) Harold B. Adams, doing business as Adams Equipment Co., Carthage, Mo. Original filed, act of 1905, Aug. 19, 1946; amended to application, under act of 1946, Supplemental Register, Aug. 2, 1948, Serial No. 507,609.

Easy-Way

For Post Hole Digger for Attachment to Tractors.
Claims use since June 1, 1944.

558,375. (Class 16. Protective and Decorative Coatings.) Phelan-Faust Paint Mfg. Co., St. Louis, Mo. Original filed, act of 1946, Principal Register, Sept. 4, 1947; amended to application, Supplemental Register, Feb. 12, 1952, Serial No. 533,363.

Lin-O-Seal

The word "Seal" is disclaimed.
For Liquid Linoleum Finish in the Nature of a Protective Coating.
Claims use since July 10, 1933.

558,376. (Class 46. Foods and Ingredients of Foods.) Armour and Company, doing business as Memphis Packing Co., Chicago, Ill. Original filed, act of 1946, Principal Register, Dec. 10, 1947; amended to application, Supplemental Register, Sept. 6, 1949, Serial No. 543,866.

Ever-Good

Applicant claims ownership of Registration No. 288,996.
For Fresh Eggs, Ham, Bacon and Sausage.
Claims use since Mar. 1, 1921.

558,377. (Class 21. Electrical Apparatus, Machines and Supplies.) Tesla, Slaboproudé a Radiotechnické Závody, Národní Podnik, Prague, Czechoslovakia, now by change of name Tesla, Narodni Podnik. Original filed, act of 1946, Principal Register, Mar. 16, 1948; amended to application, Supplemental Register, May 3, 1951, Serial No. 552,098.

TESLA

Applicant claims ownership of Czechoslovakian Registration No. 95,005/Praha, dated Mar. 20, 1947.
For Electrical Appliances and Supplies—Namely, Radio and Television Receivers and Transmitters; Radio and Television Head Sets and Earphones; Radio and Television Antennae; Electrical Phonographs and Radio Phonograph Combinations; Electrical Record Changers; Phonograph Pickups and Phonograph Driving Motors; Electric Record Players; Loudspeakers; Radio Signal Receptors and Detectors; Telephone and Telegraph Receiving and Transmitting Apparatus; Telephone Automats; Automatic Telephone Exchange Apparatus and Parts Thereof; Microphones; Teleprinting Apparatus; Facsimile Transmitting and Receiving Apparatus; Electrical Telemetric Transmitting and Receiving Apparatus; Radio Transformers; Radio Condensers; Electronic Tubes; Electric Discharge Tubes; Electric Lamps; Glow Tubes; Fluorescent Lamps; Electric Incandescent and Semi-Incandescent Light Lamps; Electric Resistors; Rheostats; Capacitors; Condensers; Trimmer Condensers; Frequency Modulators; Absorption Modulators; Anode Modulators; Choke Modulators; Grid Modulators; Magnetic Modulators; Radio Potentiometers; Current Limiters; Fuses; Switches; Relays; Transformers; Attenuators; Inductors; Choke Coils; Circuit Breakers; Contactors; Electrical Connection Fittings; Jacks; Plugs; Clips; Electric Screen Grids; Wave Traps; Cable Terminals; Cable Boxes; Mica Plates Used as Dielectrics; Photo-Electric Cells; Photo-Electric Cell Actuated Electrical Alarm Apparatus; Electrical Door Operators; Radio Communication Receivers and Transmitters; Magnetophones; Electric Batteries; Dry Cells and Dry Batteries; Machines and Electrodes for Electrical Welding; Electric Soldering Irons; Electrode Holders; Electric Shortwave and Ultra Short Wave Receivers and Transmitters; Electrical Fire and Burglar Signalling and Alarm Apparatus; Electric Sound Amplifiers; Electrical Connectors; Electric Current Rectifiers; Electric and Thermionic Rectifiers;

Electrical Wires; Filaments and Cables; Insulated Electric Conductors; Electro-Magnetic Relays; Electric Space and Water Heaters; Electric Stoves, Ranges, Furnaces, Toasters, Broilers and Irons; High-Frequency Induction Furnaces; Electric Heating Elements; Electric Heating Pads for Industrial and Laboratory Use; Sound Recording Wire; Cathode Ray Tubes; Electric Space Discharge Tubes; Rectifying, Regulating and Smoothing Tubes; Ultraviolet Ray Lamps for Industrial Use; Electric Starters for Engines; Spark Plugs; Electric Lighting Projectors; Electric Motors and Generators; Electric Fans.

558,378. (Class 46. Foods and Ingredients of Foods.) Los Banos Produce Distributors, Los Banos, Calif. Original filed, act of 1946, Principal Register, Nov. 2, 1948; amended to application, Supplemental Register Oct. 15, 1951, Serial No. 568,064.

DON PACHECO

"Don Pacheco" refers to Don Perez Francisco Pacheco, Mexican carriage maker, and owner of 150,000 acres of land in California known as the San Felipe Grant, San Juisto Grant, San Luiz Grant and the Pacheco Pass was named after him.

For Fresh Melons.
Claims use since Aug. 2, 1948.

558,379. (Class 46. Foods and Ingredients of Foods.) Georgia Cracker Co., Atlanta, Ga. Original filed, act of 1946, Principal Register, Dec. 17, 1948; amended to application, Supplemental Register, Jan. 14, 1952, Serial No. 570,698.



For Fancy Crackers.
Claims use since July 26, 1948.

558,380. (Class 46. Foods and Ingredients of Foods.) B. Heller & Company, Chicago, Ill. Original filed, act of 1946, Principal Register, Feb. 9, 1949; amended to application, Supplemental Register, May 3, 1950, Serial No. 573,550.

CUSTOM CURE

The word "CURE" is disclaimed.
For Chemical Compound Composed Principally of Salt, Sugar and Various Other Chemicals, Used for Pickling and Curing Meats.
Claims use since Sept. 27, 1948.

558,381. (Class 46. Foods and Ingredients of Foods.) Joe Lowe Corporation, New York, N. Y. Original filed, act of 1946, Principal Register, Apr. 15, 1949; amended to application, Supplemental Register, Sept. 2, 1950, Serial No. 577,202.



Applicant claims ownership of Registrations Nos. 380,899 and 383,529.
For Frozen Confections on Sticks.
Claims use since Jan. 20, 1949.

558,382. (Class 46. Foods and Ingredients of Foods.) Can-Rite Food Products Company, Modesto, Calif. Original filed, act of 1946, Principal Register, Aug. 8, 1949; amended to application, Supplemental Register, Apr. 14, 1951, Serial No. 583,142.

CAN-RITE

For Canned Vegetables.
Claims use since Mar. 19, 1949.

558,383. (Class 46. Foods and Ingredients of Foods.) Walter J. Bogdon, doing business as Bogdon's Candy Company, Joplin, Mo. Original filed, act of 1946, Principal Register, Sept. 14, 1949; amended to application, Supplemental Register, Nov. 19, 1951, Serial No. 584,793.

Bogdon's

For Candies.
Claims use since Mar. 15, 1945.

558,384. (Class 21. Electrical Apparatus, Machines and Supplies.) Holt Manufacturing Company, Oakland, Calif. Original filed, act of 1946, Principal Register, Nov. 23, 1949; amended to application, Supplemental Register, Dec. 3, 1951, Serial No. 588,217.

SILENT TWIN

For Electric Floor Finishing Machines.
Claims use since January 1946.

558,385. (Class 46. Foods and Ingredients of Foods.) Valea y Compania, Habana, Cuba. Original filed, act of 1946, Principal Register, Nov. 26, 1949; amended to application, Supplemental Register, May 8, 1951, Serial No. 588,408.

LA ESPECIAL

The translation of the word "La Especial" is "Special." Applicant claims ownership of Cuban Registration No. 45,947, dated July 14, 1943.
For Fruit Preserves, Canned Fruits, Jams, Jellies, Chocolates, Caramels, and Candies.

558,386. (Class 4. Abrasives and Polishing Materials.) William E. Coburn, also doing business as W. E. Coburn, Inglewood, Calif. Original filed, act of 1946, Principal Register, Mar. 22, 1950; amended to application, Supplemental Register, Nov. 19, 1951, Serial No. 594,362.



The drawing is lined for shading. The word "Glazes" is disclaimed.
For Automobile Wax and Glaze.
Claims use since Jan. 1, 1950.

558,387. (Class 6. Chemicals and Chemical Compositions.) Joe P. Walker, doing business as Walker Chemical Co., Orlando, Fla. Original filed, act of 1946, Principal Register, Mar. 31, 1950; amended to application, Supplemental Register, Feb. 1, 1952, Serial No. 595,020.

WALKER'S
u
KILL

The word "Kill" is disclaimed.
For Insect Spray.
Claims use since Feb. 11, 1950.

558,388. (Class 46. Foods and Ingredients of Foods.) Food Cereals, Inc., Chicago, Ill. Original filed, act of 1946, Principal Register, June 7, 1950; amended to application, Supplemental Register, Oct. 5, 1951, Serial No. 598,721.



For Roasted Barley Flour.
Claims use since Mar. 25, 1950.

558,389. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Smith Welding Equipment Corporation, Minneapolis, Minn. Original filed, act of 1946, Principal Register, June 16, 1950; amended to application, Supplemental Register, Oct. 1, 1951, Serial No. 599,268.

Twin-Twist

For Welding Hose.
Claims use since Apr. 3, 1950.

558,390. (Class 35. Belting, Hose, Machinery Packing, and Nonmetallic Tires.) Smith Welding Equipment Corporation, Minneapolis, Minn. Original filed, act of 1946, Principal Register, June 16, 1950; amended to application, Supplemental Register, Oct. 1, 1951, Serial No. 599,269.

Twist-Twin

For Welding Hose.
Claims use since Apr. 3, 1950.

558,391. (Class 21. Electrical Apparatus, Machines and Supplies.) Paul C. Calissi, doing business as Calpa Products Company, Philadelphia, Pa. Original filed, act of 1946, Principal Register, July 1, 1950; amended to application, Supplemental Register, Nov. 9, 1951, Serial No. 600,117.

Twist - A - Lite

For Portable Electric Floor and Table Lamps.
Claims use since June 8, 1950.

558,392. (Class 46. Foods and Ingredients of Foods.) Tom Lazio Fish Company, Inc., Eureka, Calif. Original filed, act of 1946, Principal Register, July 3, 1950; amended to application, Supplemental Register, Mar. 19, 1951, Serial No. 600,176.

SHELTER COVE

For Frozen Fresh Fish, Frozen Fresh Shellfish and Canned Fish.
Claims use since June 1949.

558,393. (Class 16. Protective and Decorative Coatings.) Sapolin Paints Inc., New York, N. Y. Original filed, act of 1946, Principal Register, Aug. 25, 1950; amended to application, Supplemental Register, Jan. 25, 1952, Serial No. 602,781.

U-SPRAY-IT

For Enamel Paint.
Claims use since May 1950.

558,394. (Class 46. Foods and Ingredients of Foods.) Eppens, Smith Company, Inc., Long Island City, N. Y. Original filed, act of 1946, Principal Register, Oct. 16, 1950; amended to application, Supplemental Register, Oct. 22, 1951, Serial No. 604,961.

BOSA

For Coffee.
Claims use since Jan. 1, 1936.

558,395. (Class 16. Protective and Decorative Coatings.) Senior Chemical Co., White Plains, N. Y. Original filed, act of 1946, Principal Register, Nov. 21, 1950; amended to application, Supplemental Register, Jan. 4, 1952, Serial No. 606,729.

FINISH-FIX

For Touch-Up Paints and Varnishes.
Claims use since Aug. 23, 1949.

558,396. (Class 50. Merchandise Not Otherwise Classified.) Modern-Miltex Corp., New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 24, 1951; amended to application, Supplemental Register, Jan. 29, 1952, Serial No. 609,185.

GLO-SNO

For Artificial Snow for Ornamenting Christmas Trees.
Claims use since Dec. 20, 1950.

558,397. (Class 46. Foods and Ingredients of Foods.) Edmundson-Duhe Rice Mill Co., Inc., Rayne, La. Filed Aug. 22, 1951, Serial No. 617,954.

SPECIAL JOB

For Milled Rice.
Claims use since Aug. 17, 1950.

Service Marks

558,398. (Class 104. Communication.) United Broadcasting Company, Cleveland and Columbus, Ohio. Original filed, act of 1946, Principal Register, June 11, 1948; amended to application, Supplemental Register, Apr. 25, 1951, Serial No. 561,174.

(No Drawing)

The Mark Comprises the Spoken Words "THIS IS RADIO COLUMBUS"

The service mark comprises the spoken words "This Is Radio Columbus."
For Radio Program Broadcasting Services.
Claims use since May 6, 1948.

558,399. (Class 104. Communication.) United Broadcasting Company, Cleveland, Ohio. Original filed, act of 1946, Principal Register, June 11, 1948; amended to application, Supplemental Register, Apr. 25, 1951, Serial No. 561,177.

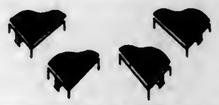
(No Drawing)

The Mark Comprises the Spoken Words "THIS IS RADIO CLEVELAND"

The service mark comprises the spoken words "This Is Radio Cleveland."
For Radio Program Broadcasting Services.
Claims use since May 6, 1948.

558,400. (Class 107. Education and Entertainment.) Edwin Fadiman, New York, N. Y. Original filed, act of 1946, Principal Register, Jan. 5, 1950; amended to application, Supplemental Register, Dec. 27, 1950, Serial No. 590,359.

The First Piano Quartet



For Entertainment Service by a Piano Quartet Through the Media of Personal Appearances, Radio Broadcast Programs and Recordings.
Claims use since July 1, 1942.

TRADE-MARK REGISTRATIONS RENEWED

36,921. "CUTICURA" ETC. WITHIN CIRCLE DESIGN. Registered Aug. 20, 1901. Potter Drug & Chemical Corporation, Boston, Mass. Re-renewed Aug. 20, 1951, to Potter Drug and Chemical Corporation, Malden, Mass., a corporation of Maine. Ointment. Class 18.

37,897. ICILINE. Registered Mar. 4, 1902. Henry H. Ottens. Re-renewed Mar. 4, 1952, to Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa., a corporation of New Jersey. Filling for Marshmallow Goods, Meringues, Macaroons, Cream-Puffs, and Similar Articles. Class 46.

37,976. VIROL. Registered Mar. 25, 1902. Virol, Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Re-renewed Mar. 25, 1952. Red Bone Marrow and Malt Extract. Class 46.

38,075. "QUAKER" ETC. AND DRAWING. Registered Apr. 8, 1902. Henry H. Ottens. Re-renewed Apr. 8, 1952, to Henry H. Ottens Mfg. Co., Inc., Philadelphia, Pa., a corporation of New Jersey. Icing-Powder for Cakes and Confectionery. Class 46.

81,420. REPRESENTATION OF HIND'S HEAD AND DESIGN. Registered Apr. 4, 1911. Whitbread & Company Limited, London, England, a corporation organized under the laws of Great Britain. Re-renewed Apr. 4, 1951. Ale. Class 48.

84,403. "DON CARLOS BRAND" AND DRAWING. Registered Dec. 12, 1911. J. Howard Mercian. Re-renewed Dec. 12, 1951, to R. C. Williams & Company, Inc., New York, N. Y., a corporation of New York. Canned Sardines. Class 46.

85,141. "BRISTOL'S" ETC. AND REPRESENTATION OF LABEL. Registered Jan. 30, 1912. Lanman & Kemp. Re-renewed Jan. 30, 1952, to Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Sugar Coated Cathartic Pills. Class 18.

85,152. C. J. MARTIN & SONS. Registered Jan. 30, 1912. C. J. Martin & Sons. Re-renewed Jan. 30, 1952, to C. J. Martin & Sons, Inc., Austin, Tex., a corporation of Texas. Insecticides. Class 6.

85,275. TREASURE. Registered Feb. 6, 1912. Oakville Company. Re-renewed Feb. 6, 1952, to Scovill Manufacturing Company, Waterbury, Conn., a corporation specially chartered by the General Assembly of the State of Connecticut. Safety-Pins. Class 40.

85,277. DEFENDER. Registered Feb. 6, 1912. Oakville Company. Re-renewed Feb. 6, 1952, to Scovill Manufacturing Company, Waterbury, Conn., a corporation specially chartered by the General Assembly of the State of Connecticut. Safety-Pins. Class 40.

85,279. CLINTON. Registered Feb. 6, 1912. Oakville Company. Re-renewed Feb. 6, 1952, to Scovill Manufacturing Company, Waterbury, Conn., a corporation specially chartered by the General Assembly of the State of Connecticut. Safety-Pins. Class 40.

85,420. DIXIE. Registered Feb. 20, 1912. Dixie Cotton Felt Mattress Company. Re-renewed Feb. 20, 1952, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware. Mattresses, Bed Box Springs, and Pillows. Class 32.

85,676. REPRESENTATION OF OAK LEAVES AND ACORNS. Registered Mar. 5, 1912. Oakville Company. Re-renewed Mar. 5, 1952, to Scovill Manufacturing Company, Waterbury, Conn., a corporation specially chartered by the General Assembly of the State of Connecticut. Toilet-Pins and Safety-Pins. Class 40.

85,997. COLOPHINE. Registered Apr. 2, 1912. Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Re-renewed Apr. 2, 1952, to Wm. C. Robinson & Son Co., Baltimore, Md., a corporation of Maryland. Cylinder and Engine Oil. Class 15.

85,998. ENDURO. Registered Apr. 2, 1912. Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Re-renewed Apr. 2, 1952, to Wm. C. Robinson & Son Co., Baltimore, Md., a corporation of Maryland. Cylinder-Oil. Class 15.

86,000. FLEX. Registered Apr. 2, 1912. Wm. C. Robinson & Son, Co., Baltimore, Md., and Coraopolis, Pa. Re-renewed Apr. 2, 1952, to Wm. C. Robinson & Son Co., Baltimore, Md., a corporation of Maryland. Valve-Oil. Class 15.

86,067. CADET. Registered Apr. 9, 1912. The H. D. Lee Mercantile Co., Salina, Kans. Re-renewed Apr. 9, 1952, to Consolidated Grocers Corporation, Chicago, Ill., a corporation of Maryland. Dried Apricots, Dried Apples, Dried Peaches, Dried Pears, Etc. Class 46.

86,487. "ROBERT BURNS" ETC. AND DRAWING. Registered May 7, 1912. United Cigar Manufacturers Company. Re-renewed May 7, 1952, to General Cigar Co., Inc., New York, N. Y., a corporation of New York. Cigars. Class 17.

86,648. "KIN" AND DESIGN. Registered May 21, 1912. Waldes & Cie., Prague-Wrschowitz, Austria-Hungary. Re-renewed May 21, 1952, to Waldes Koh-i-Noor, Inc., Long Island City, N. Y., a corporation of New York. Snap-Buttons Used as Garment-Fasteners. Class 40.

86,761. "BETSY ROSS" AND DRAWING. Registered May 28, 1912. Plunkett-Jarrell Grocer Company, Little Rock, Ark., a corporation of Arkansas. Re-renewed May 28, 1952. Tea, Ground Cinnamon, Orange Flavoring Extract, Lemon Flavoring Extract, Etc. Class 46.

87,022. WAMPOLE'S. Registered June 18, 1912. Henry K. Wampole & Company, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania. Re-renewed June 18, 1952. Suppositories, Vaginal Cones, a Beef-Juice Tonic, Laxatives, a Cascara Preparation, Etc. Class 18.

87,053. ZENOTA. Registered June 25, 1912. Duluth-Superior Milling Company, Duluth, Minn. Re-renewed June 25, 1952, to Standard Milling Company, Chicago, Ill., a corporation of Illinois. Wheat-Flour. Class 46.

87,271. AINO. Registered July 2, 1912. The Southwestern Milling Company, Jersey City, N. J., and Kansas City, Mo. Re-renewed July 2, 1952, to Standard Milling Company, Chicago, Ill., a corporation of Illinois. Wheat-Flour. Class 46.

283,204. SUNBEAM. Registered May 19, 1931. The Sunbeam Motor Car Co., Ltd., Wolverhampton, England. Renewed May 19, 1951, to Sunbeam-Talbot Limited, Ryton-on-Dunsmore, Coventry, England, a corporation of Great Britain. Internal-Combustion Engines for Land, Air, and Water Vehicles (Except Motor Cycles and Side Cars), But Not Including Such Engines for Stationary Use. Class 23.

283,348. EETROK. Registered May 26, 1931. Sandvikens Jernverks Aktiebolag, Sandviken, Sweden, a corporation organized under the laws of Sweden. Renewed May 26, 1951. Iron and Steel in the Form of Pigs, Ingots, Blanks, Bars, Bands, Beams, Blocks, Sheet Metal, Wire, and Solid and Hollow Drill Steel. Class 14.

283,612. EETROK. Registered June 2, 1931. Sandvikens Jernverks Aktiebolag, Sandviken, Sweden, a corporation organized under the laws of Sweden. Renewed June 2, 1951. Saws, Axes, Chisels, Hand Tools for Mining, Etc. Class 23.

285,178. SUTTER PAK. Registered July 14, 1931. Sutter Cooperative Growers, San Francisco, Calif. Renewed July 14, 1951 (Supplemental Register), to Pratt-Low Preserving Company, Santa Clara, Calif., a corporation of California. Canned Fruits and Canned Vegetables. Class 46.

286,966. "WYANDOTTE TOYS." Registered Sept. 8, 1931. All Metal Products Company, Wyandotte, Mich., a corporation of Delaware. Renewed Sept. 8, 1951. Popguns, Air Rifles, Toy Airplanes, Toy Trucks, and Toy Automobiles. Class 22.

287,567. IRIS. Registered Sept. 29, 1931. The Sterilek Company Inc., Brooklyn, N. Y. Renewed Sept. 29, 1951, to The Sterilek Company, Inc., New York, N. Y., a corporation of New York. Sanitary Napkins. Class 44.

288,003. PAGE. Registered Oct. 20, 1931. Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn. Renewed Oct. 20, 1951, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Steel and Iron Strands for Cable and Rope. Class 7.

288,067. TRU-LAY. Registered Oct. 20, 1931. American Cable Company, Inc., New York, N. Y., and Bridgeport, Conn. Renewed Oct. 20, 1951, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Devices of Flexible Reciprocating Shaft Type for Transmitting Power for Operating Brakes. Class 19.

288,101. PAGE. Registered Oct. 20, 1931. Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn. Renewed Oct. 20, 1951, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Steel and Iron Magnet Core Wire. Class 21.

288,450. PAGE. Registered Oct. 27, 1931. Page Steel and Wire Company, Adrian, Mich., and Bridgeport, Conn. Renewed Oct. 27, 1951, to American Chain & Cable Company, Inc., Bridgeport, Conn., a corporation of New York. Steel and Iron Rods, Etc. Class 14.

288,667. MARTIN. Registered Nov. 3, 1931. Martins-Birmingham Limited, Birmingham, England, a corporation organized under the laws of Great Britain. Renewed Nov. 3, 1951. Purses, Wallets, Note Cases, Dollar Bill Cases, Etc. Class 3.

288,872. PM SPEAKER. Registered Nov. 10, 1931. Jensen Radio Manufacturing Company. Renewed Nov. 10, 1951, to Jensen Manufacturing Company, Chicago, Ill., a corporation of Nevada. Radio Loud Speakers. Class 21.

289,316. SANI-MAID. Registered Nov. 24, 1931. San-Nap-Pak Mfg. Co., Inc. Renewed Nov. 24, 1951, to McCrory Stores Corporation, New York, N. Y., a corporation of Delaware. Absorbent Cotton, Absorbent Gauze, and Sanitary Napkins. Class 44.

289,547. S AND B. Registered Dec. 1, 1931. S and B Chemical Company, Asheville, N. C., a firm. Renewed Dec. 1, 1951. Antiseptic Solution. Class 18.

289,916. CASHMERE. Registered Dec. 15, 1931. The Sterilek Company, Inc., Brooklyn, N. Y. Renewed Dec. 15, 1951, to The Sterilek Company, Inc., New York, N. Y., a corporation of New York. Sanitary Napkins. Class 44.

290,146. "POPLIN-TEX" AND HEAVY BROKEN UNDERLINE. Registered Dec. 22, 1931. A. I. Namm & Son, doing business as The Namm Store. Renewed Dec. 22, 1951, to Namm's, Inc., Brooklyn, N. Y., a corporation of New York. Men's Dress, Negligee, or Work Shirts. Class 39.

290,239. COMBAT. Registered Dec. 22, 1931. Richfield Oil Company. Renewed Dec. 22, 1951, to Richfield Oil Corporation, Los Angeles, Calif., a corporation of Delaware. Petroleum and Petroleum Products—Namely, Gasoline, Kerosene, Motor Fuel Oil, Etc. Class 15.

290,436. "W A" AND DRAWING. Registered Jan. 5, 1932. William Adams Ltd., Hockley, Birmingham, England. Renewed Jan. 5, 1952, to William Adams Ltd., Birmingham, England, a corporation organized under the laws of Great Britain. Waiters, Entree Dishes, Teasets, Trays, Hot Water Jugs, Etc. Class 13.

290,458. PHOTOREFLEX. Registered Jan. 5, 1932. Photoreflex of New England, Incorporated, New Haven, Conn. Renewed Jan. 5, 1952, to Dorothy D. Wheelan, New York, N. Y. Photograph Folders and Mounts. Class 37.

290,614. TERMINET. Registered Jan. 12, 1932. RCA Victor Company, Inc., Camden, N. J. Renewed Jan 12, 1952, to Radio Corporation of America, New York, N. Y., a corporation of Delaware. Line Terminating Units, Resistor Units, Resistor-Capacitance Terminating Units. Class 21.

290,650. TILITE. Registered Jan. 12, 1932. Sterling Products Company, Easton, Pa. Renewed Jan. 12, 1952, to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania. Preparation for Cleaning Tile, Porcelain, Marble Floors, Terrazzo Floors, and Brass. Class 52.

290,731. "TRUTEST" AND DESIGN. Registered Jan. 12, 1932. Owensboro Milling Co. Incorporated, Owensboro, Ky., a corporation of Kentucky. Renewed Jan. 12, 1952. Wheat Flour, Stock and Poultry Feeds. Class 46.

290,743. PANOCRIN. Registered Jan. 12, 1932. The Harrower Laboratory, Inc., Glendale, Calif. Renewed Jan. 12, 1952, to The Harrower Laboratory, Inc., Jersey City, N. J., a corporation of Delaware. Solution of an Active Principle of the Pancreas Having Influence Upon the Circulation, Etc. Class 18.

290,801. PAR VALUE. Registered Jan. 19, 1932. White & Wyckoff Mfg. Co., Riverside, Mass. Renewed Jan. 19, 1952, to White & Wyckoff Mfg. Co., Holyoke, Mass., a corporation of Massachusetts. Price Book Fillers, Loose-Leaf Fillers, Typewriter Paper, Etc. Class 37.

290,859. THE SCIENCE DIGEST. Registered Jan. 19, 1932. Popular Mechanics Company. Renewed Jan. 19, 1952, to Science Digest, Inc., Chicago, Ill., a corporation of Illinois. Magazine Published Monthly. Class 38.

290,876. PERMITE. Registered Jan. 19, 1932. Aluminum Industries, Inc., Cincinnati, Ohio, a corporation of Ohio. Renewed Jan. 19, 1952. Ready Mixed Paints. Class 16.

290,939. "WM. PENN" ETC. AND DRAWING. Registered Jan. 19, 1932. General Cigar Co., Inc., New York, N. Y., a corporation of New York. Renewed Jan. 19, 1952. Cigars. Class 17.

291,059. AIRCOWELD. Registered Jan. 26, 1932. Air Reduction Sales Company. Renewed Jan. 26, 1952, to Air Reduction Company, Incorporated, New York, N. Y., a corporation of New York. Welding Rods. Class 14.

291,260. "BROWN BEAR" AND DRAWING. Registered Feb. 2, 1932. Gardner Wire Co., Chicago, Ill. Renewed Feb. 2, 1952, to Gardner Wire Co., Cicero, Ill., a corporation of Illinois. Weather Strips. Class 12.

291,336. PHOTOREFLEX. Registered Feb. 9, 1932. Photoreflex of New England, Incorporated, New Haven, Conn. Renewed Feb. 9, 1952, to Dorothy D. Wheelan, New York, N. Y. Pose-Reflecting Photographic Apparatus Comprising a Cabinet Fitted With a Camera and Mirrors. Class 26.

291,345. FOR-KEEPS. Registered Feb. 9, 1932. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 9, 1952. Adhesive Mending Cement. Class 5.

291,374. CUB. Registered Feb. 9, 1932. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 9, 1952. Fishing Reels. Class 22.

291,380. SAHARA. Registered Feb. 9, 1932. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 9, 1952. Dressing for Fish Lines and Dry Flies. Class 22.

291,381. KEELART. Registered Feb. 9, 1932. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 9, 1952. Sinkers. Class 22.

291,382. NO-DIE. Registered Feb. 9, 1932. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 9, 1952. Fish Stringers. Class 22.

291,398. EUPHYDIGTAL. Registered Feb. 9, 1932. Byk-Guldenwerke Chemische Fabrik Aktiengesellschaft, Berlin, Germany. Vested in Attorney General of the United States, Washington, D. C., and renewed to him, Feb. 9, 1952. Medicinal Preparations for the Treatment of Angina Pectoris, Coronary Sclerosis, Etc. Class 18.

291,400. BUG-DED. Registered Feb. 9, 1932. Midway Chemical Company, Chicago, Ill. Renewed Feb. 9, 1952, to Boyle-Midway Inc., New York, N. Y., a corporation of Delaware. Liquid Insecticide. Class 6.

291,466. BURDIX. Registered Feb. 9, 1932. Burton-Dixie Corporation. Renewed Feb. 9, 1952, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware. Padding for Seat Cushions and Mattresses. Class 32.

291,668. OLD COLONY. Registered Feb. 23, 1932. Old Colony Envelope Company, Westfield, Mass., a corporation of Massachusetts. Renewed Feb. 23, 1952. Writing and Printing Paper, Mailing Envelopes, Announcement Cards, and Cut Cards. Class 37.

291,714. "FOUR BROS. TRUSTY" AND DESIGN. Registered Feb. 23, 1932. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 23, 1952. Fishing Reels. Class 22.

291,783. GRAPHIC-GRAM. Registered Feb. 23, 1932. Hodes-Wallach Co. Inc., doing business as Graphic-Gram Communications Service. Renewed Feb. 23, 1952, to Hodes-Daniel Co., Inc., New York, N. Y., a corporation of New York. Advertising Matter—Namely, Completely Printed or Typed Advertisements. Class 38.

291,792. FLASHSPIN. Registered Feb. 23, 1932. The Enterprise Manufacturing Company, Akron, Ohio, a corporation of Ohio. Renewed Feb. 23, 1952. Fishline Leaders. Class 22.

291,818. ROCKLEDGE BOND. Registered Feb. 23, 1932. Millers Falls Paper Company, Millers Falls, Mass., a corporation of Massachusetts. Renewed Feb. 23, 1952. Bond Paper. Class 37.

291,843. INDOSOL. Registered Feb. 23, 1932. Durand & Huguenin A. G., Basel, Switzerland, a corporation organized under the laws of Switzerland. Renewed Feb. 23, 1952. Dyed Piece Goods of Cotton, Silk, Wool, Rayon, Linen, and/or Mixtures of Such Materials. Class 42.

291,855. "DOUBLE CHECK" AND DESIGN. Registered Feb. 23, 1932. James A. Lyne, doing business as The J. A. Lyne Company, Russellville, Ky. Renewed Feb. 23, 1952, to Harry Hampton, Jr., doing business as Hampton-Cross Company, Louisville, Ky. Automobile Radiator and Boiler Solder. Class 14.

291,929. SNOW FLOUR. Registered Feb. 23, 1932. The Loudonville Milling Company, Loudonville, Ohio. Renewed Feb. 23, 1952, to Standard Milling Company, Chicago, Ill., a corporation of Illinois. Wheat Flour. Class 46.

291,992. PRESIDENT. Registered Mar. 1, 1932. The Rome Company, Inc. Renewed Mar. 1, 1952, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware. Beds, Bed Springs, Mattresses, Box Springs, and Spring Cushions. Class 32.

292,237. X-SCENT. Registered Mar. 8, 1932. Max Factor & Co., Los Angeles, Calif., a corporation of Delaware. Renewed Mar. 8, 1952. Deodorants. Class 51.

292,325. FACTOR. Registered Mar. 15, 1932. Max Factor & Co., Los Angeles, Calif., a corporation of Delaware. Renewed Mar. 15, 1952. Powder Foundation Cream; Makeup Foundation, a Face Cream Used as a Powder Base; Etc. Class 51.

292,424. ENTOLETER. Registered Mar. 15, 1932. The Products Protection Corporation, New Haven, Conn., and New York, N. Y. Renewed Mar. 15, 1952, to The Safety Car Heating and Lighting Company, Inc., New York, N. Y., a corporation of Delaware. Machinery and Apparatus for Sterilizing Food and Other Products, More Particularly for Electrically Destroying Insects, Etc. Class 23.

292,456. "PROPERT'S" ETC. AND DRAWING. Registered Mar. 15, 1932. B. Beddow and Sons Limited, doing business as Propert's. Renewed Mar. 15, 1952, to Propert Limited, London, England, a company organized under the laws of the United Kingdom of Great Britain and Northern Ireland. Leather and Saddle Soap, Being a Dressing for Leather. Class 52.

292,499. "JABON DE REUTER" ETC. IN YELLOW UPON BLACK BACKGROUND. Registered Mar. 15, 1932. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed Mar. 15, 1952. Soaps. Class 52.

292,500. "JABON DE REUTER" ETC. IN YELLOW UPON BLACK BACKGROUND. Registered Mar. 15, 1932. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed Mar. 15, 1952. Soaps. Class 52.

292,508. COLORDEX. Registered Mar. 15, 1932. Remington Rand Inc., Buffalo, N. Y. Renewed Mar. 15, 1952, to Remington Rand Inc., New York, N. Y., a corporation of Delaware. Index Tabs and Holders, and Inserts Therefor. Class 37.

292,568. BLUE ROCK. Registered Mar. 15, 1932. The Chamberlin Cartridge & Target Co., Cleveland, Ohio. Renewed Mar. 15, 1952, to Remington Arms Company, Inc., Bridgeport, Conn., a corporation of Delaware. Clay Pigeons. Class 22.

292,646. MAX. Registered Mar. 22, 1932. Max Factor & Co., Los Angeles, Calif., a corporation of Delaware. Renewed Mar. 22, 1952. Powder Foundation Cream; Makeup Foundation, a Face Cream Used as a Powder Base; Etc. Class 51.

292,781. FREEZO. Registered Mar. 29, 1932. Avery Salt Company, Avery Island, La. Renewed Mar. 29, 1952, to International Salt Company, Scranton, Pa., a corporation of New Jersey. Salt. Class 46.

292,811. ORTHOFLEX. Registered Mar. 29, 1932. Burton-Dixie Corporation. Renewed Mar. 29, 1952, to Burton-Dixie Corporation, Chicago, Ill., a corporation of Delaware. Mattresses, Bed-Springs, Mattress Pads, Pillows, Cushions, Studio Couches, and Day-Beds. Class 32.

292,827. AVAMIST. Registered Mar. 29, 1932. The Gland-O-Lac Company, Omaha, Nebr., a firm. Renewed Mar. 29, 1952. Preparation for the Treatment of Bronchitis and Colds in Poultry, Particularly Chickens. Class 18.

293,095. "BARCLAY & CO." ETC. AND DRAWING LINED FOR PINK AND BLACK. Registered Apr. 12, 1932. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed Apr. 12, 1952. Soaps. Class 52.

293,405. STRYCHNAL. Registered Apr. 19, 1932. Laboratoires Longuet, Societe a Responsabilite Limitee, Paris, France, a corporation organized under the laws of the Republic of France. Renewed Apr. 19, 1952. Alkaloidal Preparation Having the Properties and Uses of Strychnine. Class 6.

293,406. CITROSODINE. Registered Apr. 19, 1932. Laboratoires Longuet, Societe a Responsabilite Limitee, Paris, France, a corporation organized under the laws of the Republic of France. Renewed Apr. 19, 1952. Preparation Used in Gastric Affections as an Antiacid and All Affections Where the Use of Sodium Citrate Is Indicated. Class 18.

293,483. KONCREX. Registered Apr. 26, 1932. A. C. Horn Company. Renewed Apr. 26, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Decorative Coating for New or Old Cement Floors—Namely, Cement Floor Paint. Class 16.

293,484. SYMENTREX. Registered Apr. 26, 1932. A. C. Horn Company. Renewed Apr. 26, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Decorative Waterproof Paint for Concrete and Masonry. Class 16.

293,621. IDEAL. Registered May 3, 1932. Peoples Drug Stores, Inc., Washington, D. C., a corporation of Maryland. Renewed May 3, 1952. Antiseptic Solution. Class 18.

293,637. HABITEE. Registered May 3, 1932. Fairy Silk Mills, Inc., Shillington, Pa., a corporation of Pennsylvania. Renewed May 3, 1952. Women's and Misses' Underwear Made of Glove Silk, Silk and Rayon, and Rayon. Class 39.

293,696. "COTTON LEDGER" ETC. AND DESIGN. Registered May 3, 1932. Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Renewed May 3, 1952. Ledger and Bond Paper. Class 37.

293,714. NESTOIL. Registered May 3, 1932. The Nestle-LeMur Company, New York, N. Y., a corporation of Ohio. Renewed May 3, 1952. Hair Waving Pads. Class 44.

293,760. "COTTON BOND" ETC. AND DESIGN. Registered May 3, 1932. Byron Weston Company, Dalton, Mass., a corporation of Massachusetts. Renewed May 3, 1952. Ledger and Bond Paper. Class 37.

293,804. B B DUREX. Registered May 3, 1932. Brozen Bros. Watch Crystal Co. Inc. Renewed May 3, 1952, to B. B. Crystal Corp., New York, N. Y., a corporation of New York. Watch Crystals. Class 33.

293,825. PONARIS. Registered May 10, 1932. Jacques Romano, New York, N. Y. Renewed May 10, 1952. Preparation Used in the Treatment of Disordered Functions of the Nasal Mucous Membranes. Class 18.

293,844. "A" AND DRAWING. Registered May 10, 1932. Henry Becker & Son, Inc., Roseland, N. J., a corporation of New Jersey. Renewed May 10, 1952. Milk, Cream, Butter, and Eggs. Class 46.

293,896. PURASNOW. Registered May 10, 1932. General Mills, Inc., Minneapolis, Minn., a corporation of Delaware. Renewed May 10, 1952. Wheat Flour. Class 46.

293,916. "ACTEEN" WITH HEAVY UNDERLINE. Registered May 10, 1932. E. O. Corson, doing business as Acteen Pest Control Services, Berkeley, Calif. Renewed May 10, 1952. Insecticides. Class 6.

293,925. DRYDEX. Registered May 10, 1932. The Electric Storage Battery Company, Philadelphia, Pa. Renewed May 10, 1952, to The Chloride Electrical Storage Company Limited, Clifton Junction, near Manchester, England, a corporation organized under the laws of Great Britain. Electric Dry Cell Batteries. Class 21.

293,961. "MOTUNG" WITHIN OVAL DESIGN. Registered May 10, 1932. Universal Steel Company. Renewed May 10, 1952, to Universal-Cyclops Steel Corporation, Bridgeville, Pa., a corporation of Pennsylvania. Molybdenum Metal and Molybdenum Alloys, and Tool and Cutting Steels. Class 14.

293,972. CONFORMA. Registered May 10, 1932. I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York. Renewed May 10, 1952. Brassières, Girdles, and Corsets. Class 39.

294,001. DEHYDRATINE. Registered May 10, 1932. A. C. Horn Company. Renewed May 10, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Waterproofing Compound for Walls, Both Above and Below Grade. Class 12.

294,002. FERRO-FAX. Registered May 10, 1932. A. C. Horn Company. Renewed May 10, 1952, to Sun Chemical Corporation, Long Island City, N. Y., a corporation of Delaware. Metallic Hardener for Concrete Floors. Class 12.

294,095. "TRUSSBILT" AND DESIGN LINED FOR RED. Registered May 17, 1932. Trussbilt Steel Doors, Inc., Minneapolis, Minn. Renewed May 17, 1952, to Siems Bros., Inc., St. Paul, Minn., a corporation of Delaware. Hollow Sheet Metal Units for Doors, Frames, Louvers, Etc. Class 12.

294,133. "DENALAN" ETC. Registered May 17, 1932. The Denaco Agency. Renewed May 17, 1952, to Denalan Company, Inc., San Francisco, Calif., a corporation of California. Cleaning Powder and Stain Remover for Artificial Plates and Teeth. Class 51.

294,224. NIP-AN-TUCK. Registered May 24, 1932. Huntington Laboratories, Inc., Huntington, Ind., a corporation of Indiana. Renewed May 24, 1952. Roach Powder. Class 6.

294,369. SUPER STRONGLAS. Registered May 24, 1932. The American Thermos Bottle Company, Norwich, Conn., a corporation of Ohio. Renewed May 24, 1952. Vacuum Bottles. Class 2.

294,393. SNAPSHOTS. Registered May 24, 1932. News Syndicate Co, Inc., New York, N. Y., a corporation of New York. Renewed May 24, 1952. Newspaper Section. Class 38.

294,427. SWAN ISLAND BRAND. Registered May 24, 1932. Benson Fish Company, Chicago, Ill., a corporation of Illinois. Renewed May 24, 1952. Canned Salmon and Shrimp. Class 46.

294,791. "BARCLAY & CO." ETC. AND DRAWING LINED FOR PINK AND BLACK. Registered June 7, 1932. Lanman & Kemp-Barclay & Co., Incorporated, New York, N. Y., a corporation of New York. Renewed June 7, 1952. Laxative Pills, Liniment for External Use, Hair Tonic, Hair Dye, Tooth Powder, Face Lotion, and Perfumery. Class 51.

294,854. "TUFF TRED" ETC. AND DRAWING. Registered June 7, 1932. Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Renewed June 7, 1952. Boots and Shoes Constructed of Leather, Rubber, or Fabric, or any Combinations of Such Materials. Class 39.

294,863. IDAHO TOASTED TATERS. Registered June 7, 1932. Idaho Candy Company, Boise, Idaho, a corporation of Idaho. Renewed June 7, 1952. Candy. Class 46.

294,950. SEAL-O-SAN. Registered June 14, 1932. Huntington Laboratories, Inc., Huntington, Ind., a corporation of Indiana. Renewed June 14, 1952. Mixture of Varnish and Wax for Wood Floors. Class 16.

294,951. VARNOSAN. Registered June 14, 1932. Huntington Laboratories, Inc., Huntington, Ind., a corporation of Indiana. Renewed June 14, 1952. Varnish. Class 16.

295,230. RUBBER-SAN. Registered June 21, 1932. Huntington Laboratories, Inc., Huntington, Ind., a corporation of Indiana. Renewed June 21, 1952. Wax Polish for Asphalt, Tile, Rubber, or Composition Flooring. Class 4.

295,328. OUR ANNOUNCER. Registered June 28, 1932. Endicott Johnson Corporation, Endicott, N. Y., a corporation of New York. Renewed June 28, 1952. Boots and Shoes of Leather, Rubber, Fabric, or of Any Combination Thereof. Class 39.

295,412. DORIC. Registered June 28, 1932. The Manhattan Shirt Company, New York, N. Y., a corporation of New York. Renewed June 28, 1952. Negligee Shirts, Pajamas, and Underwear, Etc. Class 39.

295,496. SCALLAWAG. Registered July 5, 1932. Hodshon-Berg, Incorporated, Norwalk, Conn., and New York, N. Y. Renewed July 5, 1952, to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware. Hats for Women. Class 39.

295,499. SPEEDIES. Registered July 5, 1932. Vanity Brassiere Company, Inc. Renewed July 5, 1952, to Vanity Corset Company, Inc., New York, N. Y., a corporation of New York. Corsets, Brassières, and Girdles. Class 39.

295,641. TOOTSIE CARAMELS. Registered July 5, 1932. Sweets Company of America, Inc., New York, N. Y. Renewed July 5, 1952, to The Sweets Company of America, Incorporated, Hoboken, N. J., a corporation of Virginia. Confectionery—Namely, Candy. Class 46.

295,757. "MEAD'S SERVAMUS FIDEM" AND DESIGN. Registered July 12, 1932. Mead Johnson & Company, Evansville, Ind., a corporation of Indiana. Renewed July 12, 1952. Specially Prepared Food Product for Infants and Invalids, Etc. Class 46.

295,769. A DEMI MOT. Registered July 12, 1932. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed July 12, 1952. Perfumes, Toilet Water, Face Powder, Etc. Class 51.

295,772. CROQUIS. Registered July 12, 1932. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed July 12, 1952. Perfumes, Toilet Water, Face Powder, Etc. Class 51.

295,778. ENTR' ACTE. Registered July 12, 1932. Houbigant, Inc., New York, N. Y., a corporation of New York. Renewed July 12, 1952. Perfumes, Toilet Water, Face Powder, Etc. Class 51.

TRADE-MARK REGISTRATIONS AMENDED, DISCLAIMED, CORRECTED, ETC.

146,362. SINCLAIR. Registered Sept. 6, 1921. Sinclair Refining Company, Chicago, Ill. Refined, Semirefined and Unrefined Oils Made From Petroleum, Both With and Without Admixture of Animal, Vegetable or Mineral Oils for Illuminating, Burning, Power, Fuel and Lubricating Purposes. Class 15. Corrected as follows: In the renewal certificate, line 4, in the merchandise, for "Lubricating-Oils" read *Refined, Semirefined and Unrefined Oils Made From Petroleum, Both With and Without Admixture of Animal, Vegetable or Mineral Oils for Illuminating, Burning, Power, Fuel and Lubricating Purposes.*

291,905. NU-PAK. Registered Feb. 23, 1932. Stevens & Thompson Paper Co., North Hoosier, N. Y. Toilet Paper. Class 37. Corrected as follows: In the original certificate, line 3; in the heading to the statement; in line 4 of the statement; and in the renewal certificate, in the heading to the statement; and in line 4 of the statement, "North Hoosier" should be *North Hoosick.*

545,021. UNI-BAR FASTYPE. Registered July 10, 1951. Jules Sacks, Philadelphia, Pa. The Preparation of Single Slugs or Bars of Multigraph Type According to Particular Requirements and the Rental Thereof to Multigraph Users. Class 101. Corrected as follows: In the statement, lines 6, 7, 8, 9, and 10, the description of services should be deleted and *the preparation of single slugs or bars of type for use in duplicating and/or printing machines according to particular requirements and the rental thereof to duplicating and/or printing machine owners* should be inserted in lieu thereof.

TRADE-MARK REGISTRATIONS REPUBLISHED

The following marks registered under the act of 1905, or the act of 1881, are published under the provisions of section 12(c) of the Trade-Mark Act of 1946. These registrations are not subject to opposition but are subject to cancellation under section 14 of the act of 1946.

CLASS 2

RECEPTACLES

Reg. No. 291,887. Registered Feb. 23, 1932. Eureka Vacuum Cleaner Company, Detroit, Mich. Republished by Eureka Williams Corporation, Bloomington, Ill., a corporation of Michigan.

EUREKA

For Vacuum Cleaner Dust Receptacles Formed Wholly or in Part of Textile Material.
Claims use since about Jan. 1, 1910.

CLASS 3

BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS

Reg. No. 402,981. Registered Aug. 24, 1943. Nash, Inc., Jersey City, N. J. Republished by Nash Inc., Jersey City, N. J., a corporation of New Jersey.

CABRETTA

For Leather Goods—Namely, Billfolds, Key Cases, and Change Purses.
Claims use since Jan. 1, 1943.

CLASS 6

CHEMICALS AND CHEMICAL COMPOSITIONS

Reg. No. 287,132. Registered Sept. 15, 1931. General Dyestuff Corporation, New York, N. Y., a corporation of New York. Republished by registrant.

Suprafix

For Dyes and Dyestuffs.
Claims use since Apr. 14, 1931.

CLASS 15

OILS AND GREASES

Reg. No. 166,494. Registered Apr. 3, 1923. Standard Oil Company, Whiting, Ind., and Chicago, Ill., a corporation of Indiana. Republished by registrant, present address Chicago, Ill.

STANOLEX

For Lubricating Oils and Greases.
Claims use since Sept. 10, 1912.

CLASS 16

PROTECTIVE AND DECORATIVE COATINGS

Reg. No. 414,280. Registered June 5, 1945. Dagmar Chemical Company, Stamford, Conn. Republished by The Dagmar Chemical Company, Incorporated, Springdale, Conn., a corporation of Connecticut.

DAGMAR

For Paints in Dry, Paste, and Readymixed Form, and Lacquers.
Claims use since March 1934.

CLASS 20

LINOLEUM AND OILED CLOTH

Reg. No. 342,000. Registered Dec. 29, 1936. Armstrong Cork Products Company, Lancaster, Pa. Republished by Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania.

RAYBELLE

For Linoleum and Similar Hard Surfaced Floor Coverings.
Claims use since June 15, 1936.

CLASS 21

ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES

Reg. No. 410,887. Registered Dec. 26, 1944. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

FAIRBANKS-MORSE

For Electric Generators, Electric Motors, Domestic Lighting Plants, and Magnetos.
Claims use since Jan. 17, 1908.

CLASS 23

CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF

Reg. No. 84,344. Registered Nov. 28, 1911. "Selas" Gesellschaft Mit Beschränkter Haftung, Berlin, Germany. Republished by Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania.

Selas

For Gas Mixture Apparatus, Carburetors, Pressure Regulators for Air and Gaseous and Vaporous Fuel and Steam Generators.
Claims use since Sept. 29, 1900.

Reg. No. 131,456. Registered May 18, 1920. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

FAIRBANKS-MORSE

For Internal Combustion Engines—Namely, Gas, Gasolene, Kerosene and Oil Engines; Steam and Power Pumps; Windmills; and Feed Grinders.
Claims use since Oct. 7, 1894.

CLASS 24

LAUNDRY APPLIANCES AND MACHINES

Reg. No. 352,065. Registered Nov. 16, 1937. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.



For Laundry Washing Machines and Ironing Machines.
Claims use since May 18, 1934.

Reg. No. 352,246. Registered Nov. 23, 1937. Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois. Republished by registrant.

FAIRBANKS-MORSE

For Laundry Washing Machines and Ironing Machines.
Claims use since June 22, 1934.

CLASS 26

MEASURING AND SCIENTIFIC APPLIANCES

Reg. No. 430,936. Registered July 1, 1947. The House of Vision-Belgard-Spero, Inc., Chicago, Ill., a corporation of Delaware. Republished by registrant.



The word "Vision" is disclaimed apart from the mark as shown.
For Eyeglasses, Optical Lenses, Spectacle Frames, Mountings, Temples, and Other Optical Fittings.
Claims use since on or about Aug. 1, 1938.

Reg. No. 442,009. Registered Feb. 8, 1949. The House of Vision-Belgard-Spero, Inc., Chicago, Ill., a corporation of Delaware. Republished by registrant.



That portion of the mark consisting of the syllable "Lens" is disclaimed apart from the mark as shown.
For Contact Lenses.
Claims use since on or about Oct. 1, 1944.

CLASS 35

BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES

Reg. No. 288,179. Registered Oct. 20, 1931. United States Rubber Company, New York, N. Y., a corporation of New Jersey. Republished by registrant.

RED MAN

For Belting and Packing Composed of Rubber and Fabric.
Claims use since sometime in the year 1921.

CLASS 37

PAPER AND STATIONERY

Reg. No. 290,804. Registered Jan. 19, 1932. Ireland & Taub Paper Company, Inc., New York, N. Y., a corporation of New York. Republished by registrant.

SKID ENAMEL

The word "Enamel" is disclaimed apart from the mark as shown.
For Coated Paper Suitable for Printing.
Claims use since Jan. 2, 1928.

CLASS 42

KNITTED, NETTED, AND TEXTILE FABRICS, AND SUBSTITUTES THEREFOR

Reg. No. 108,511. Registered Feb. 15, 1916. Goodall Worsted Co., Sanford, Maine, and New York, N. Y. Republished by Goodall-Sanford, Inc., Sanford, Maine, a corporation of Maine.



For Woolen Piece Goods, Mohair Piece Goods, and Piece Goods of Combinations of Cotton, Wool, Mohair, Alpaca, Camel Hair, Silk, and Artificial Silk.
Claims use since Jan. 1, 1909.

CLASS 47

WINES

Reg. No. 331,947. Registered Jan. 28, 1936. California Fruit Products Co. Inc., New York, N. Y. Republished by Ben R. Goltsman & Co., Montgomery, Ala., a firm.



For Wines.
Claims use since Dec. 10, 1910.

CLASS 48

MALT BEVERAGES AND LIQUORS

Reg. No. 355,989. Registered Apr. 5, 1938. Hampden Brewing Company, Williamsett, Mass., a corporation of Massachusetts. Republished by registrant.

HAMPDEN

For Ale, Mild Ale, Porter, and Beer.
Claims use since 1894.

657 O. G.—86

CLASS 49

DISTILLED ALCOHOLIC LIQUORS

Reg. No. 338,468. Registered Sept. 8, 1936. Eddy & Fisher, Inc., Providence, R. I. Republished by John Scheminger, Jr., Providence, R. I.

CLICQUOT CLUB

For Various Whiskies, Brandies, Rums, Gins, Rye, Distilled Cordials, and Cocktails Having a Distilled Liquor Base.
Claims use since at least Jan. 1, 1895.

REISSUES

APRIL 29, 1952

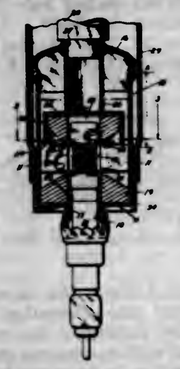
23,480

CAVITY RESONATOR ELECTRON DISCHARGE DEVICE

William C. Brown, Weston, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware

Original No. 2,557,780, dated June 19, 1951, Serial No. 742,541, April 19, 1947. Application for reissue November 20, 1951, Serial No. 257,397

7 Claims. (Cl. 315—39)



1. An electron discharge device comprising: a cathode; an anode structure spaced from said cathode and provided with a plurality of cavity resonators; a first conductor connected to said anode structure and constituting one of the conductors of a transmission line; a conductive cap connected to one of said cavity resonators in a region of relatively low radio-frequency voltage; and a second conductor electrically connected to said cap said second conductor constituting the other conductor of said transmission line.

23,481

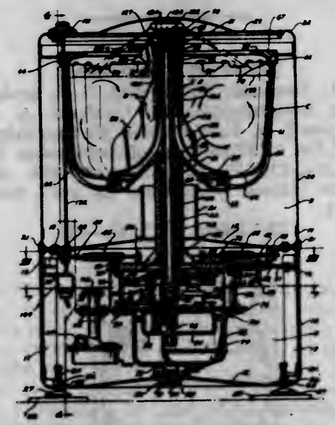
WASHING MACHINE WITH CENTRIFUGAL EXTRACTOR AND STABILIZER THEREFOR

George P. Castner, Webster City, Iowa, and Arthur D. Lund, Minneapolis, Minn., assignors to Solar Corporation, Milwaukee, Wis., a corporation of Delaware

Original No. 2,513,844, dated July 4, 1950, Serial No. 690,532, August 14, 1946. Application for reissue September 20, 1950, Serial No. 185,898

14 Claims. (Cl. 68—23)

6. In a washing machine, a main frame *having an outer casing and a support member disposed at the lower end of the casing,* [a second frame] *an inner assembly including a spindle* supporting a clothes receptacle for rotation about a vertical axis, means for mounting [the second frame on] *said assembly on the support member* of the main frame with freedom for gyratory deflection with respect to said vertical axis induced by rotation of the receptacle when the latter is out of balance, *spring* means *disposed at an elevation substantially above said support member and connecting the main frame and inner assembly for* yieldably restraining such gyratory deflection and tending to restore the [second frame] spindle and receptacle to normal operating positions, and at least one pair of cooperating friction producing members *disposed at an elevation adjacent to that of the spring means* for frictionally resisting the aforesaid gyratory deflection, one of the members of said pair being attached to a point fixed with respect to the main frame



and the other member of the pair being attached to [the second frame] *said inner assembly* [.], *said members overlapping each other and means interengaged with said members intermediate the overlapped ends and centrally within the frictional areas thereof for retaining the members in assembled relation.*

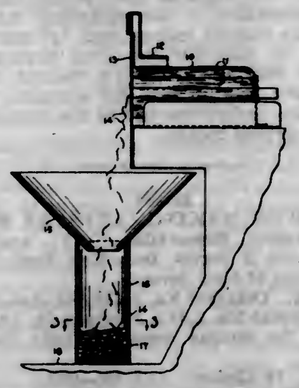
23,482

MEAT PRODUCT AND METHOD OF TREATING MEAT

Howard M. Condon, Akron, Ohio, assignor to Grand Duchess Steaks, Inc., Akron, Ohio, a corporation of Ohio

Original No. 2,527,493, dated October 24, 1950, Serial No. 737,501, March 27, 1947. Application for reissue August 17, 1951, Serial No. 242,337

9 Claims. (Cl. 99—194)



1. A method of treating meat, which comprises the steps of providing a block composed of a

plurality of non-coherently, longitudinally coextending strips of *raw* meat of relatively small transverse cross-section as compared with the transverse cross-section of the block, freezing the block to substantially hardened state throughout, slicing relative thin slices from the hardened block in planes transversely of said strips, the removed slices thereby separating into relatively small flakes from said coextending strips, and forming the flakes into a compact integrated mass thereof of desired size and shape, the average size of said flakes being such as would require a substantial number of the same to cover the broad lateral surface area of a said mass in flattened patty form for cooking purposes.

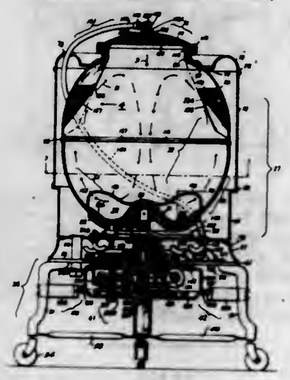
23,483

WASHING MACHINE

George C. Graham, Ridgewood, N. J., assignor, by mesne assignments, to Graham & Barker, Ridgewood, N. J., a limited partnership

Original No. 2,407,660, dated September 17, 1946, Serial No. 306,797, November 30, 1939. Application for reissue September 15, 1947, Serial No. 774,071

33 Claims. (Cl. 68—12)



1. In a washing machine, a tub, means for agitating clothes in the tub, a means for flushing and drying the clothes, means for rinsing the clothes, and actuating and control mechanism for automatically (a) operating said flushing and drying means to start the flushing of the clothes while said agitating means is operating, (b) stopping the agitating means while continuing the action of the flushing, (c) stopping the flushing means, (d) starting the rinsing means, (e) reviving operation of the agitating means, (f) stopping the rinsing means, and (g) starting the operation of the flushing and drying means to dry the clothes during the revived action of the agitating means, and (h) stopping the agitating means before the end of the drying operation of the drying means.

23,484

METHOD OF MAKING CULINARY MIXES

Ogden Johnson, Bronxville, N. Y., assignor to Ford, Bacon & Davis, Inc., New York, N. Y., a corporation of New Jersey

No Drawing. Original No. 2,499,586, dated March 7, 1950, Serial No. 3,817, January 22, 1948. Application for reissue March 20, 1951, Serial No. 216,672

10 Claims. (Cl. 99—94)

2. A method of making a culinary mix having ingredients comprising flour, sugar and shortening in proportions to form an edible culinary product when the mix is mixed with an aqueous edible liquid and baked, which method comprises mixing the ingredients of the mix comprising flour and sugar with shortening in a liquid, supercooled condition.

9. The method of claim 2 in which the shortening in the liquid super-cooled condition is mixed with the sugar before it is mixed with the flour.

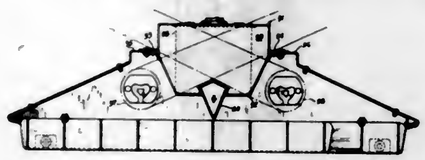
23,485

COMBINATION LIGHT DISTRIBUTOR AND WIRING CONDUIT FOR ELONGATED TUBULAR LAMPS

Michael Henry Kruger, Malden, Mass., assignor to A. L. Smith Iron Company, Chelsea, Mass., a corporation of Massachusetts

Original No. 2,559,641, dated July 10, 1951, Serial No. 218,174, March 29, 1951. Application for reissue February 12, 1952, Serial No. 271,256.

9 Claims. (Cl. 240—51.11)



9. In a lighting fixture, the combination of a main frame having two elongated spaced apart opaque side plates inclining downwardly in an outward lateral direction, opaque end plates connecting the side plates to one another, lamp sockets for fluorescent lamps at said end plates, a ballast housing disposed between the inner ends of said side plates and spaced from said end plates so as to interrupt only a minor part of the space between the side plates, at least one lamp disposed below and adjacent to each side plate within the vertically projected area thereof to enable light rays therefrom to be directed upwardly at an angle through the space between the side plates, and a longitudinally extending housing disposed between said side plates and between said lamps clear of the vertically projected area above the lamps, said longitudinally extending housing being connected to said end plates and to said ballast housing and adapted to accommodate wires extending from said ballast housing to said lamp sockets.

23,486

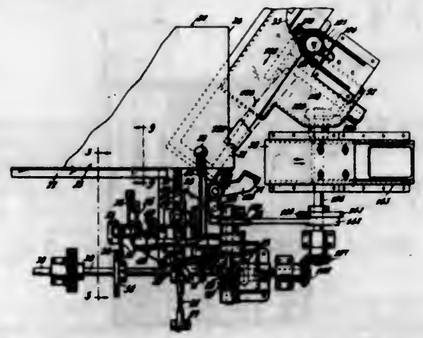
METHOD OF AND APPARATUS FOR PRODUCING VALVED OR SLEEVED BAGS

Harry E. Lee, Oswego, N. Y., assignor to St. Regis Paper Company, New York, N. Y., a corporation of New York

Original No. 2,387,274, dated October 23, 1945, Serial No. 588,812, April 17, 1945. Application for reissue December 27, 1951, Serial No. 263,650

31 Claims. (Cl. 93—8)

1. In forming a sleeve valve bag, the steps which comprise separating the walls of the open end of a bag adjacent one corner of the bag, introducing between the separated walls a spreader and moving the spreader in a diagonal direction into the bag until the corner of the bag is substantially straightened against the spreader, applying to the outside of the straightened corner a sheet adapted to form a sleeve, thereafter withdrawing the spreader while holding the sheet in position and then folding the sheet and straightened corner about a median line and collapsing the spread apart walls against the folded in sheet and corner.



33. In apparatus of the character described, a support for a gusseted bag blank: means for separating the walls of the bag blank at one corner thereof, such means comprising a spreader device having a pair of wings spreadable within the gusset at such corner of the bag blank to form a bag surface which is substantially perpendicular to the plane of the bag and which forms an accessible valve flap; holding means for a supplemental sheet, said holding means having a sheet retaining member; means for effecting relative movement between said holding means and said bag blank supporting means to cause the supplemental sheet to engage and be retained in engagement with said substantially perpendicular bag surface, said means for effecting relative movement comprising a power driven device operatively connected to said holding means; means for folding said surface and the retained sheet inwardly about the median line of the valve flap into the plane of the bag, such folding means comprising a creasing member; and interconnected drive means for actuating in timed relationship said spreader device and said power driven device to effect said relative movement between said holding means and said bag blank supporting means to apply the supplemental sheet behind said flap, and thereafter to withdraw said holding means from behind said flap and to actuate said creasing member for so folding said surface and sheet.

23,487

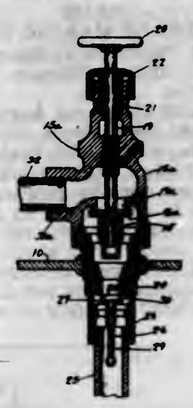
FILL AND DISCHARGE VALVE FOR LIQUEFIED HYDROCARBON CONTAINERS

William E. McCabe, Jr., Denver, Colo.

Original No. 2,543,920, dated March 6, 1951, Serial No. 84,428, March 30, 1949. Application for reissue August 31, 1951, Serial No. 244,537

9 Claims. (Cl. 62—1)

5. In a tank for storing liquified gases of the type provided with a single opening therein for receiving means for filling the tank, the improvement which comprises; a device for said filling means comprising means secured to said opening adapted to fill and drain the tank, said means including a dip tube secured to the opening and having one end extending below the liquid level in the tank, a fill and drain valve system having a normally closed check valve in communication with the other end of said tube adapted to automatically open during filling of the tank and automatically close when the pressure in the tank exceeds the pressure in a conduit connected to a filling source, and a normally open excess flow valve in communication with said other end of the tube adapted to close during draining of the tank when reverse flow through the tube exceeds a predetermined rate, a drain conduit, such as a hose, adapted to be detachably connected to the valve system, the excess flow valve being interposed between said conduit and said tube, and means carried by the valve system, independent of said conduit, and



operable independent of the attachment of said conduit to the valve system for establishing communication from said tube, through the excess flow valve, and to said conduit, whereby the single tube may serve to fill and drain the tank and flow therethrough will be discontinued if a conduit connected to the valve system should rupture during filling or draining.

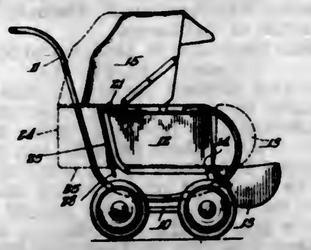
23,488

CONVERTIBLE BABY CARRIAGE AND STROLLER

Walter L. Raucher, Chicago, Ill., assignor to Helen Raucher, Chicago, Ill.

Original No. 2,494,489, dated January 10, 1950, Serial No. 72,701, January 25, 1949. Application for reissue September 22, 1950, Serial No. 186,296

12 Claims. (Cl. 296—26)

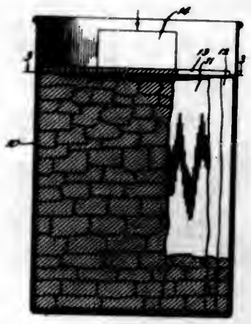


7. A convertible baby carriage and stroller comprising a wheel-chassis, a main body having a base and upstanding side-walls on said chassis, and an extension arranged to extend rearwardly from the body, said extension comprising a bottom-wall hinged to the rear of the base and arranged to lie substantially in the plane thereof when in lowered position, end and side-walls secured to the margins of the bottom-wall and extending upwardly substantially vertically therefrom when the bottom-wall is in a lowered position, said bottom-wall being substantially equal in width to the base of the main body and being pivotal to an upstanding supporting position, means for retaining the bottom-wall in said upstanding posi-

tion against movement to its lowered position, and a foot well shiftably mounted at the front of the carriage to be used as a closure for the front end thereof or in a lower position for the accommodation of the feet of the occupant when the carriage is in the form of a stroller.

23,489
PROCESS OF MAKING CHEESE
Conrad Toone, Pocatello, Idaho, assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
Original No. 2,520,183, dated August 29, 1950, Serial No. 707,182, November 1, 1946. Application for reissue August 29, 1950, Serial No. 182,027
4 Claims. (Cl. 99—116)

1. In a process for the preparation of cheese in which milk is coagulated to produce a curd [within a vat] and the curd is cut into pieces and the whey then drained from about the curd pieces, the steps of [shoveling] *transferring* the curd [pieces left standing in the vat directly from the vat] *directly from the place of draining* into a vessel lined with a substantially air-impervious wrapper having overlapping portions, sealing the overlapping portions of said wrapper against the



ingress of air while permitting the escape of air, and holding the curd in said casing until cheese body characteristics are developed.

PLANT PATENTS

GRANTED APRIL 29, 1952

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

1,086
DOUBLE PINK LILAC PLANT
Edward J. Gardner, Horicon, Wis.
Application October 28, 1950, Serial No. 192,755
1 Claim. (Cl. 47—60)

The new and distinct variety of lilac plant as described and illustrated and characterized by its loose panicles of distinctive pale pink blooms, individual florets being double and having channeled narrow top petals and broad recurvant lower petals springing from immediately proximate levels.

1,087
ROSE PLANT
John A. Armstrong, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application December 29, 1950, Serial No. 203,446
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climbing hybrid tea class, characterized by being substantially identical with its parent "Tallyho" (Plant Patent No. 828), but essentially distinguished therefrom by its climbing habit of growth, by its habit of producing many more flowers in the spring than can usually be found at any one time on the bush parent, and by its intermittent flowering habit during the remainder of the growing season, substantially as shown and described herein.

1,088
ROSE PLANT
John A. Armstrong, Ontario, Calif., assignor to Armstrong Nurseries, Inc., Ontario, Calif., a corporation of California
Application December 29, 1950, Serial No. 203,447
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climbing hybrid tea class, characterized by being substantially identical with its parent "Nocturne" (Plant Patent No. 713), but essentially distinguished therefrom by its climbing habit of growth, by its habit of producing many more flowers in the spring than can usually be found at any one time on the bush parent, and by its intermittent flowering habit during the remainder of the growing season, substantially as shown and described herein.

1,089
ROSE PLANT
Frederick L. Caluya, Newman, Calif., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application January 23, 1951, Serial No. 207,419
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climbing hybrid tea class, characterized as to novelty by its similarity to its parent "Grey Pearl" (Plant Patent No. 680), but dominantly distinguished therefrom by its climbing habit of growth and by its habit of bearing flowers at the terminals of its long, upright, climbing basal shoots and on short axillary flowering branches, substantially as shown and described herein.

1,090
ROSE PLANT
Frederick L. Caluya, Newman, Calif., assignor to Jackson & Perkins Company, Newark, N. Y., a corporation of New York
Application January 23, 1951, Serial No. 207,420
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant of the climbing floribunda class, characterized as to novelty by its similarity to its parent "Goldilocks" (Plant Patent No. 672), but dominantly distinguished therefrom by its climbing habit of growth and by its habit of producing massive and repeating clusters of blooms on its long, upright basal shoots and on its side branches throughout the summer, substantially as shown and described herein.

PATENTS

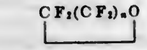
GRANTED APRIL 29, 1952

2,594,271
METHOD OF FORMYLATING TETRAHYDRO PTEROIC ACID AND AMINO ACID AMIDES THEREOF
Marvin Jay Fahrenbach, Plainfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application August 5, 1950, Serial No. 177,959
5 Claims. (Cl. 260—251.5)

1. A method of preparing a member of the group consisting of tetrahydroformyl pteroic acid and amino acid amides of tetrahydroformyl pteroic acid which comprises treating a compound of the group consisting of tetrahydro pteroic acid and amino acid amides of tetrahydro pteroic acid with an alkyl formimino ether.

2,594,272
CYCLIC FLUOROALKYLENE OXIDE COMPOUNDS
Edward A. Kauck, St. Paul, Minn., and Joseph H. Simons, State College, Pa., assignors to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application September 10, 1948, Serial No. 48,777
3 Claims. (Cl. 260—333)

1. As new and useful compounds, the cyclic fluoroalkylene oxide compounds having the formula:



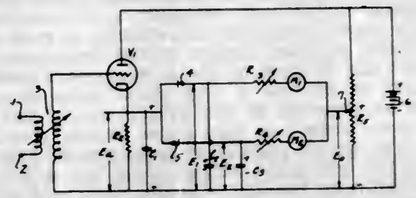
where n is an integer having a value of two to four.

2,594,273
PASTY VEHICLE FOR ARTIST'S PAINT
Bernhard J. Mellwig, Easton, Pa., assignor to Binney & Smith Company, Easton, Pa., and New York, N. Y., a corporation of New Jersey.
No Drawing. Application December 28, 1948, Serial No. 67,760
4 Claims. (Cl. 106—206)

4. A water-soluble, pasty paint vehicle for artist's paint comprising a soap of triethanolamine and a soap-forming fatty acid about 23–52 lbs., soap forming fatty acid about 1–11 lbs., starch about 20–25 lbs., carbohydrate gum about 24–30 lbs., a polyhydric alcohol of the group consisting of glycerine and sorbitol about 5–10 lbs., formaldehyde about 3–3.5 lbs., and water about 100–125 lbs.

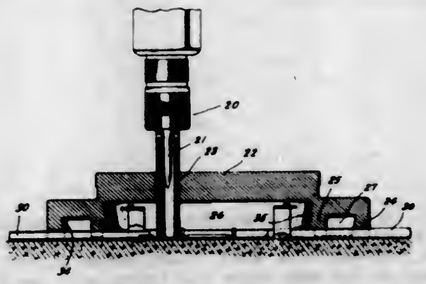
2,594,274
MODULATION METER
Kenneth D. Bailey, Dayton, Ohio
Application May 28, 1951, Serial No. 228,726
3 Claims. (Cl. 332—39)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A meter for simultaneously and continuously indicating the degree of positive and negative modulation of an amplitude modulated radio frequency wave, said meter comprising means for producing from said amplitude modulated radio frequency wave a correspondingly amplitude modulated direct voltage, a first series circuit consisting of said modulated direct voltage, a first condenser and a first rectifier poled to permit charging of said first condenser by said voltage; a second series circuit consisting of said modulated direct voltage, a second condenser and a second rectifier poled to prevent charging of said second condenser by said voltage, a source of fixed direct voltage; high resistance means for measuring the



difference between the voltage of said first condenser and said fixed voltage; high resistance means for measuring the difference between the voltage of said second condenser and said fixed voltage; and means for adjusting the amplitude of said radio frequency wave for the purpose of adjusting the amplitude of said first mentioned direct voltage to equality with the amplitude of said fixed direct voltage in the absence of modulation on said radio frequency wave.

2,594,275
ARMOR SHIELD FOR PROJECTILE TYPE FASTENINGS
Richard Karl Baisch, Cottage City, Md.
Application October 23, 1951, Serial No. 252,788
3 Claims. (Cl. 1—47)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



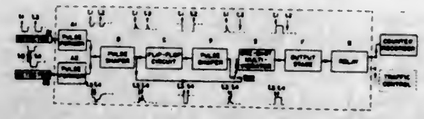
1. An armor shield provided with an aperture through its upper surface for receiving the muzzle of a tool adapted to insert explosive propelled fastenings, an integral marginal flange thereon forming a missile confining chamber with a surface against which said flange is held, the inner surface of said flange extending from its outer edge upwardly and outwardly to form a confining surface to arrest any flying pieces of material scattered by explosive force, said armor shield being provided with pressure relieving vents.

2,594,276

ELECTRONIC CIRCUIT

John L. Barker and Bernard J. Midlock, Norwalk, Conn., assignors to Eastern Industries, Incorporated, East Norwalk, Conn., a corporation of Delaware

Application August 26, 1950, Serial No. 181,632
14 Claims. (Cl. 235—92)



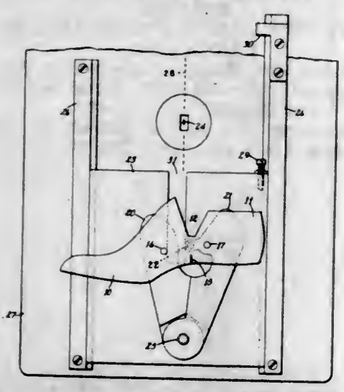
1. An electrical circuit for providing controlled output pulses in response to input pulses varying in time relation including in combination a plurality of input pulse receiving circuits, a pulse former circuit individual to each input pulse receiving circuit for forming a substantially square wave front pulse in response to each input pulse, a pulse shaper circuit connected to receive the outputs of the several pulse former circuits to provide a very short spike shaped pulse in response to the square wave front of the pulse output of said pulse former circuits, a divider circuit controlled by said pulse shaper to derive one short output pulse for a larger predetermined number of pulses from said pulse shaper, and means including a one shot multivibrator circuit controlled by the output of said divider circuit to provide output pulses of substantially uniform character in response thereto.

2,594,277

WORK HOLDER FOR BAND-SAWING

Charles F. Barto, Rochester, N. Y., assignor to United Last Company, Boston, Mass., a corporation of Maine

Application January 16, 1948, Serial No. 2,608
5 Claims. (Cl. 143—171)



1. In a sawing machine, a power actuated saw-blade, a support movable toward and from the saw-blade, a work-holder cooperatively related to the saw-blade and comprising two generally coplanar sections, a pivot connecting one of said sections with the support, said sections being disposed in a plane angularly related to that of the saw-blade, a second pivot spaced from the first and connecting the sections for angular movement together and apart in their plane, and toward or from the plane of the saw-blade, and parallel jig-pins extending one from each section and spaced to impale a work-piece connecting them, said sections thereby being swingable about the first-mentioned pivot in unison with the work-piece until the latter is severed by the saw-blade, the sections then being individually swingable about said second pivot to allow separation of said sections from the saw-blade.

2,594,278

HERBICIDAL COMPOSITIONS CONTAINING CHLORINATED ARYL ESTERS OF ALIPHATIC MONOCARBOXYLIC ACIDS

Luther L. Baumgartner, Hastings, N. Y., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 4, 1950, Serial No. 147,754
8 Claims. (Cl. 71—2.3)

1. A herbicidal composition which comprises as the essential active ingredient 0.01% to 10% by weight of a polychloroaryl ester of an aliphatic monocarboxylic acid said ester containing at least three nuclear attached chlorine atoms per benzene ring in the aryl group and, as a carrier therefor, a mineral oil consisting predominantly of hydrocarbons containing from 10 to 20 carbon atoms.

2,594,279

MINERAL OIL COMPOSITIONS

Leonard E. Beare, Lansing, Ill., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

No Drawing. Application February 17, 1949, Serial No. 77,057
8 Claims. (Cl. 252—46.6)

1. A lubricating oil composition comprising predominantly a mineral oil and containing minor but effective proportions for extreme pressure properties of an oil-soluble stable chlorinated hydrocarbon containing about 35 to 75% chlorine and a composition of matter prepared by the reaction of a bicyclic terpene, sulfur, and a phosphorus sulfide in the approximate molar ratio 3–8:0.5–5:1, the said composition of matter containing sulfur within the range from 10.56 to 16.17 per cent by weight and containing phosphorus within the range from 1.65 to 3.46 per cent by weight.

2,594,280

CEMENT BONDED NATURAL CELLULOSE AGGREGATE IMPREGNATED WITH CURED SYNTHETIC RESIN AND METHOD OF MAKING THE SAME

Julian F. Beaudet, Lake George, N. Y.

No Drawing. Application March 11, 1949, Serial No. 81,030
6 Claims. (Cl. 260—17.2)

3. A composition of matter comprising an aggregate composed of small pieces of natural cellulose material impregnated with a synthetic resin which is set within the cells of the pieces of aggregate, and a binder of cementitious material selected from the group consisting of a hydraulic cement and plaster of Paris.

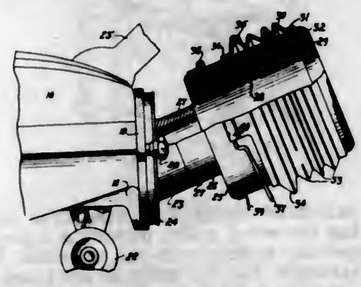
2,594,281

SUCTION CLEANER

Quentin Berg, New Cumberland, Pa., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application June 5, 1948, Serial No. 31,229
17 Claims. (Cl. 183—36)

1. A bag unit for a suction cleaner of the type having an ambulatory body formed with a nozzle and an exhaust outlet and suction-creating means to draw air into said nozzle and to exhaust it from said outlet; comprising a bag-mounting assembly including bag-seating means, a resilient bellows comprising a plurality of collapsible annular rings of substantially the same size and an additional larger ring mounted on the bag-seating means forming bag locating means, a dirt-filtering bag including a reduced inlet neck and an enlarged body provided with expansible pleats, an integrally formed locator on the enlarged annular ring adapted to locate the pleats of the dirt-filtering bag, said inlet



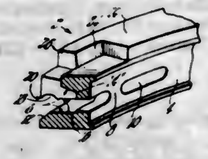
neck of the dirt-filtering bag adapted to be positioned on the aforesaid annular resilient rings whereby the dirt-filtering bag is affixed and sealed thereto, the enlarged annular ring providing a stop to position and locate the dirt-filtering bag, said annular rubber rings of the bellows permitting the mounting of the dirt-filtering bag thereon but preventing the withdrawal thereof, and means formed on the bellows adapted to distort the bellows permitting the attachment and detachment of the dirt-filtering bag upon the annular ridges thereof.

2,594,282

PISTON RING CONSTRUCTION

Alfred Bergeron, Chicopee Falls, Mass.

Application November 22, 1949, Serial No. 128,891
8 Claims. (Cl. 309—44)



2. A piston ring construction comprising upper and lower split ring sections, said lower section having an outer annular groove extending inwardly from the outer side thereof intermediate upper and lower sides thereof providing an inner annular web, said web provided with elongated slots therethrough spaced therearound, said upper section having a portion overlying the upper side of the lower section, an outer intermediate section around the outer side of said lower section and a lower section extending into said groove terminating at the upper sides of said slots, the upper section having an annular groove in a lower face thereof providing a circumferential outer wiping edge, opposite end portions of said upper section provided with interfitting recesses and tongues, opposite end portions of said lower section provided with recesses, and a separate key secured to the upper portion of the upper section disposed therein disposed at a side thereof opposite to the said tongues and recesses.

2,594,283

PROCESS FOR THE PREPARATION OF INOCULUM FOR USE IN THE FERMENTATIVE PRODUCTION OF SODIUM GLUCONATE

Russell H. Blom, Peoria Heights, and Virgil E. Sohns and Andrew J. Moyer, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application December 29, 1949, Serial No. 135,852
3 Claims. (Cl. 195—81)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

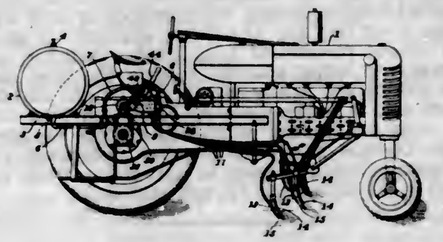
1. A method for the production of a germinated inoculum of gluconic acid-producing mold organisms suitable for inoculating sodium gluconate fermentation media which comprises inoculating a nutrient medium comprising 3 to 12 percent glucose with spores of a gluconic acid-producing mold, incubating the nutrient medium under conditions of submerged aeration until sufficient growth of vegetative cells is obtained, and maintaining the pH of the medium above 4.5 by controlling the rate of aeration.

2,594,284

LIQUID FERTILIZER APPLYING APPARATUS

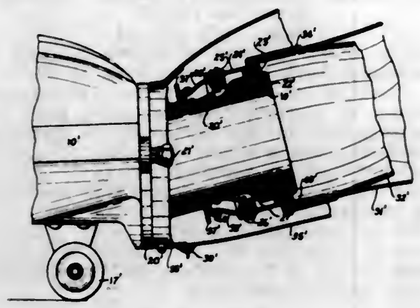
John Blue, Huntsville, Ala., assignor to John Blue Company, Huntsville, Ala., a corporation of Alabama

Application December 21, 1948, Serial No. 66,482
4 Claims. (Cl. 103—38)



1. A variable delivery pump for easily vaporizable liquid fertilizer and the like adapted for attachment to a vehicle whereby the easily vaporizable liquid is discharged therefrom in a quantity dependent upon the speed of the vehicle, said variable delivery pump comprising a casing having an open end, a cylinder block fitted into said open end, said cylinder block having a liquid inlet and liquid outlet and a liquid pressure space therebetween, a cylinder within said cylinder block communicating with said liquid pressure space, a piston within said casing and slidably mounted within said cylinder, cam means positioned to intermittently push said piston further into said cylinder at a rate dependent on the speed of the vehicle to which said pump is attached whereby a pumping stroke is effected to discharge liquid from within said liquid pressure space through said liquid outlet, said piston, after the pumping stroke, being adapted to be returned to a position where the pumping stroke may again be effected by said cam means by means of liquid entering said liquid pressure space through said liquid inlet, and means on said casing cooperating with said piston for adjusting the stroke of the latter.

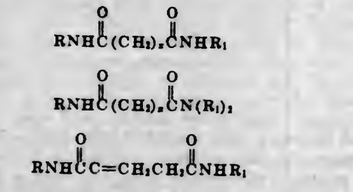
2,594,285
FILTER BAG COUPLING
George A. Brace, Highland Park, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 8, 1949, Serial No. 114,669
11 Claims. (Cl. 285—165)



1. A bag mounting for a suction cleaner filter bag comprising a tubular member adapted to be connected to the discharge passage of a suction cleaner, a self-acting clamp for the inlet of a filter bag associated therewith comprising a flexible resilient skirt-like member, said skirt-like member including an upper waist portion carried by said tubular member, a lower thickened rim of greater periphery than said waist portion and an intermediate relatively thin-walled flexible portion interconnecting said waist and lower rim and adapted to support the latter in spaced relation to said tubular member, said lower rim being adapted to grip the inlet neck of a filter bag firmly and in an airtight manner, and said tubular member being provided with a camming surface positioned to flare the lower rim of said skirt-like member outwardly into firmer gripping relation to a filter bag when said rim is moved axially toward said waist.

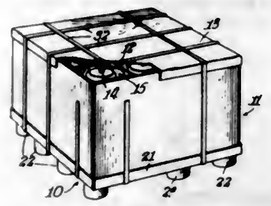
2,594,286
GREASE AND GREASE BASE
William C. Bryant, Garfield, N. J., and Harold Frost, Jr., Yonkers, N. Y., assignors to Swan-Finch Oil Corporation, New York, N. Y., a corporation of New York
No Drawing. Application July 8, 1948, Serial No. 37,534
16 Claims. (Cl. 252—51.5)

1. A grease composition comprising a petroleum lubricant and a sufficient quantity of a gelation agent to cause at least a partial gelation thereof, said agent being selected from the group consisting of



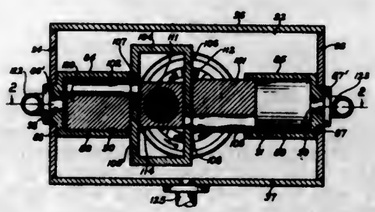
in which R and R_1 are aliphatic hydrocarbon radicals, R having a carbon chain of a length of C8 to C18, R_1 having a carbon chain of a length of C2 tc C18, and x equals 1 to 8.

2,594,287
PALLET CONTAINER ASSEMBLY FOR SHIPPING ARTICLES
Larry J. Budd, Chicago, Ill., assignor to Pallet Devices, Inc., Melrose Park, Ill., a corporation of Illinois
Application January 17, 1949, Serial No. 71,236
7 Claims. (Cl. 206—65)



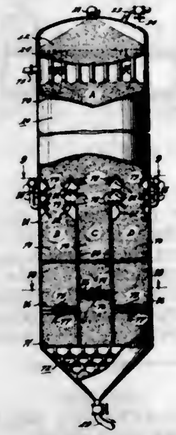
1. A palletized package of apertured articles embodying therein a pallet including a platform and supporting members on the underside thereof and arranged for the entry of lift truck arms between certain ones thereof, an open top container having a bottom engaged upon said platform, means in the container for dividing the same into a plurality of article receiving compartments, a plurality of articles arranged as a vertical stack in each compartment and engaged upon the bottom thereof with the apertures of said articles in alignment with each other and in alignmen, with at least a portion of a platform supporting member, means disposed in the aligned apertures in each stack and engaging at its bottom with the bottom of the container and having its top end disposed in the plane of the open top end of the container, and a closure for the top end of said container and engaged at spaced points with the top ends of at least certain of said last mentioned members.

2,594,288
FLUID MOTOR ASSEMBLY
Clarence Ray Button, Rochester, N. Y.
Application October 29, 1945, Serial No. 625,259
13 Claims. (Cl. 121—121)



13. A reversible fluid motor assembly comprising a cylinder providing a work chamber, a piston member having a reciprocating stroke within said chamber and provided with a pair of passages for discharging fluid substantially in the direction of its movement for displacing said piston member, and a reversing member operatively associated with said piston member, movable to one position to open one and close the other of said passages, and movable to another position to close said one and open said other of said passages.

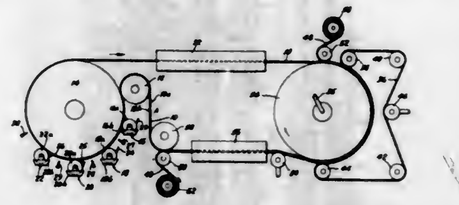
2,594,289
METHOD AND APPARATUS FOR PROCESSES EMPLOYING FLUENT SOLIDS
Clyde L. Caldwell, Long Beach, Calif., assignor to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Original application October 29, 1947, Serial No. 782,887. Divided and this application November 28, 1950, Serial No. 197,850
6 Claims. (Cl. 196—52)



1. In processes wherein fluent solid hydrocarbon conversion catalyst circulates in a system comprising a conversion zone and a regeneration zone, in which conversion zone hydrocarbons contact said catalyst under endothermic conversion conditions to form conversion products and concomitantly deposit coke on said catalyst, in which regeneration zone an oxygen containing gas contacts catalyst from the conversion zone under combustion conditions so as to remove coke deposited thereon, the improvement which comprises passing fluent solid hydrocarbon conversion catalyst through a confined zone of approximately equal horizontal cross sectional area throughout its vertical extent as a continuous downwardly moving nonturbulent bed, dividing the lower part of said bed into a plurality of noncommunicating vertical sections, passing hydrocarbons through the upper part of said bed above said sections throughout substantially the complete horizontal cross sectional area of said bed, introducing an unreactive gas to the bottom of at least one of said vertical sections at a pressure greater than the pressure at the top of said section to prevent the entrance of hydrocarbon vapors to said section, and passing hydrocarbons through at least one of said vertical sections whereby the rate of catalyst circulation through the upper part of the zone above said sections is greater than the rate of catalyst circulation through such vertical sections as are employed for contacting hydrocarbons.

2,594,290
APPARATUS FOR APPLYING DESIGNS TO PLASTIC SHEETLIKE MATERIALS
Marc A. Chavannes, Lisbon, Conn., assignor to Chavannes Industrial Synthetics, Inc., New York, N. Y., a corporation of Delaware
Application January 29, 1947, Serial No. 725,110
5 Claims. (Cl. 154—97.5)

1. Apparatus for applying printed designs to thermoplastic film comprising a conveyor, said conveyor comprising an endless belt presenting a surface of yielding material on which designs of thermoplastic ink may be printed and from which said designs may readily be stripped when dried, printing means comprising at least one printing roller adapted to apply a plurality of separate designs of thermoplastic ink to said conveyor, ink-drying means, means for applying said film to said conveyor over the dried ink, means for



advancing said film and said conveyor together through an extended zone, a pressure belt, means for pressing said belt against said film and said conveyor as they advance through said zone, means for heating said film and said ink as they pass through a considerable portion of said zone, whereby said ink becomes bonded to said film, and means for stripping said film bearing said ink from said conveyor.

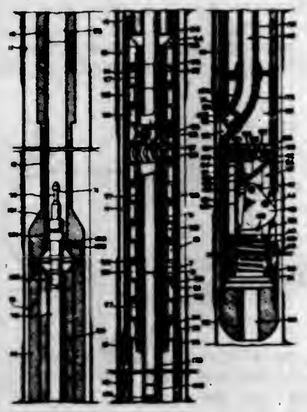
2,594,291
PROCESS FOR THE PRODUCTION OF HIGH PURITY TANNING EXTRACTS
Theone C. Cordon, Erdenheim, Pa., and Lynferd J. Wickerham, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application January 13, 1950, Serial No. 138,522
10 Claims. (Cl. 195—7)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a process for recovering tannins from canaigre by extracting canaigre roots with an aqueous extractant to produce a tannin-containing canaigre water-extract liquor and an extraction residue consisting of spent canaigre root material, the steps comprising: contacting the spent root material with an aqueous solution of a strong mineral acid at a temperature and for a length of time sufficient to cause hydrolysis of the starch present in said material; separating and neutralizing the resultant liquid hydrolyzate; inoculating the hydrolyzate with a yeast and allowing the fermentation to proceed until the major portion of the sugar content of the hydrolyzate has been consumed; separating the yeast cells from the fermented hydrolyzate and transferring them to the canaigre extract liquor; allowing the fermentation of the liquor to proceed substantially to completion and thereafter separating the yeast cells and recovering the alcohol from the fermented extract liquor.

2,594,292
SIDE WALL SAMPLER
Paul Dean Cornelius, Hollydale, Calif., assignor to Byron Jackson Co., Vernon, Calif., a corporation of Delaware
Application March 7, 1949, Serial No. 80,058
36 Claims. (Cl. 255—1.4)

1. Drilling apparatus for use in a bore hole, comprising in combination: a housing adapted to be secured to a pipe string and positioned with-

in the bore hole, a prime mover in the housing having a rotary drive element, and a retrievable drilling unit including a rotary cutting tool



adapted to be lowered through the interior of the pipe string into driving relationship with said drive element.

2,594,293

ACRYLONITRILE PROTEIN DERIVATIVES

John C. Cowan, Peoria, Cyril D. Evans, Peoria Heights, and Leonard L. McKinney, Peoria, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application October 31, 1947, Serial No. 783,428
3 Claims. (Cl. 260—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. The method which comprises reacting a protein compound with acrylonitrile in aqueous alkaline dispersion to produce a modified protein compound, aging the dispersion until the viscosity of the dispersion increases to a degree suitable for spinning, and spinning the dispersion into fibers.

2,594,294

STABILIZATION OF GLYCERIDE OILS WITH IMINODISUCCINIC ACID

John C. Cowan, Peoria, and Cyril D. Evans, Peoria Heights, Ill., assignors to the United States of America as represented by the Secretary of Agriculture

No Drawing. Application July 25, 1950, Serial No. 175,351
7 Claims. (Cl. 260—398.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A composition of matter stabilized against oxidative deterioration comprising a glyceride oil having incorporated therein iminodisuccinic acid as a stabilizing agent.

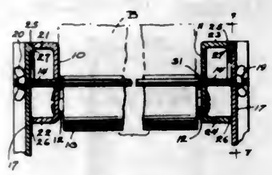
2,594,295

REVERSIBLE CONVEYER

Walton W. Cushman, Webb City, Mo.

Application December 16, 1947, Serial No. 792,091
10 Claims. (Cl. 193—35)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A roller conveyor having a pair of rails spacedly secured together, load-supporting rollers rotatably supported between said rails, said rollers having one load-bearing surface intermediate said rails and another load-bearing surface extending beyond said rails, reversible ground-engaging supports pivotedly secured to said rails for selectively securing said conveyor in a position for conveying a narrow load over the



first-named load-bearing surface of said rollers and in a reversed position for conveying a wide load over the second-named load-bearing surface of said rollers, and releasable means for adjusting the angles between said rails and said supports to a plurality of predetermined perpendicular and non-perpendicular operative positions of said supports relative to said rails.

2,594,296

LOBELINE AEROSOL DILATING MEDICAMENT

Lucien Dautrebande, Washington, D. C., assignor to Aerosol Corporation of America, New York, N. Y., a corporation of Delaware

No Drawing. Application June 24, 1948, Serial No. 35,059
7 Claims. (Cl. 167—58)

1. A composition comprising as essential and primary ingredients, a lobeline salt and a salt selected from the group consisting of salts of procaine and of cocaine, said composition being adapted for dispersion in the form of an aerosol and inhalation to produce a pneumo-dilating effect.

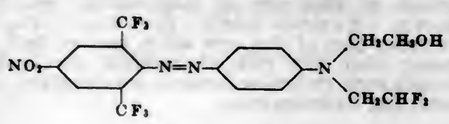
2,594,297

4-NITRO-2,6-DI(TRIFLUOROMETHYL)-BENZENEAZO-N-FLUOROALKYL-N-HYDROXYALKYLANILINE DYE COMPOUNDS

Joseph B. Dickey, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 1, 1949, Serial No. 85,044
7 Claims. (Cl. 260—207.5)

5. The azo dye compound having the formula:



2,594,298

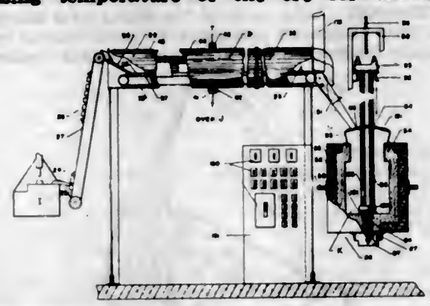
REDUCTION AND REFINING OF FERROUS ORES IN ONE CONTINUOUS OPERATION

Walter E. Dudley, Gleason, Wis.

Application November 10, 1948, Serial No. 59,224
7 Claims. (Cl. 75—11)

1. A method of reducing ferrous ores which comprises mixing together finely divided ore with finely divided fluxing and reducing agents and applying to the mixture intermittent applications

of heat at temperatures greatly in excess of the fusing temperature of the ore for successive



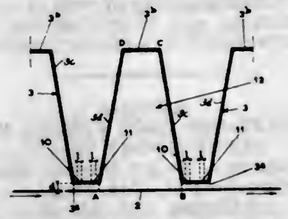
closely spaced short durations of time to reduce the ore.

2,594,299

GROUP OF NOZZLES FOR TREATING MATERIAL

Julien Dungler, Basel, Switzerland

Application June 25, 1947, Serial No. 756,876
In France April 22, 1947
9 Claims. (Cl. 34—160)



1. An apparatus for treating fibrous products by means of air, steam, and similar gaseous fluid comprising at least one group of equally spaced nozzle-members, each nozzle-member being provided with two converging walls and with blowing orifices located opposite the product to be treated, the intermediate spaces defined by walls of each two successive nozzle-members and connections thereof forming passages, means for forcing said gaseous fluid through said orifices, and means for creating a vacuum in said passages whereby said fluid is exhausted after it has been discharged from said orifices and acted on the product to be treated, the distance between the plane of said product to be treated and that of said blowing orifices is not less than two times nor larger than ten times the ratio between the sum of the cross-sections of the end faces of said blowing orifices of one and the same nozzle-member and the effective length of said blowing orifices, the sum of the vertical cross-sections of all said passages located between said blowing nozzle-members of the same group is at least equal to twice but less than ten times the sum of the area of the orifices at the end faces of the nozzle-members opposite the product to be treated.

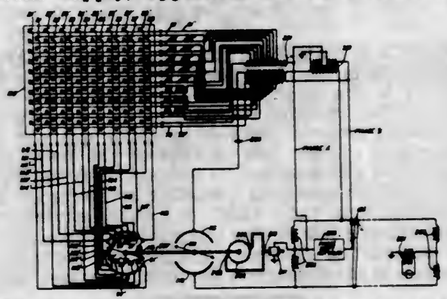
2,594,300

SPACED-PULSE TYPE IMPULSE SENDER

Kermit S. Dunlap and Clarence A. Lovell, Summit, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 29, 1949, Serial No. 135,795
3 Claims. (Cl. 179—90)

1. In a telephone calling system, a subscriber's station, a subscriber's line extending therefrom, impulse transmitting means comprising an impulse coil having a saturable core, a first tapped input winding, a supply of polyphase alternating current, means for connecting said winding of one of the phases of said polyphase alternating-current supply, a second tapped input winding, means for connecting said second winding to a second phase of said polyphase alternating-current supply, apparatus for simultaneously



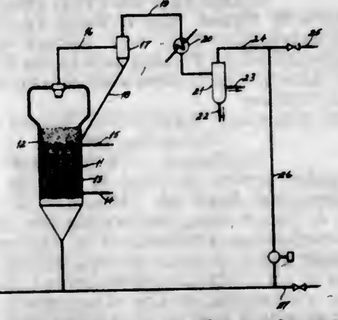
selecting a tap on each of said windings for controlling the number of ampere-turns applied said core from each of said phases which ampere-turns produce a substantially constant resultant maximum number of ampere-turns applied to said core for each of said pair of selected taps, an output winding interlinking said core and means for connecting said output winding to said subscriber's line.

2,594,301

CATALYTIC REDUCTION OF CARBON MONOXIDE WITH HYDROGEN

Du Bois Eastman, Scarsdale, and Leon P. Gaucher, Mount Vernon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

Application June 17, 1947, Serial No. 755,234
2 Claims. (Cl. 260—449.6)



1. In the process for the synthesis of normally liquid hydrocarbons, oxygenated hydrocarbons and the like by the catalytic reduction of carbon monoxide with hydrogen wherein a synthesis gas comprising hydrogen and carbon monoxide in a relative molar ratio in the range of from 1:1 to about 3:1 is passed in contact with a dense fluid phase mass of solid particle, iron, hydrocarbon synthesis catalyst in a reaction zone at an elevated temperature in the range of about 500–700° F., and normally liquid products of reaction are recovered from the effluent reaction stream, the improvement which comprises restricting the undesired formation of light gaseous hydrocarbons and carbon dioxide by withdrawing the entire reaction effluent from contact with the catalyst, separating the desired, normally liquid products of reaction therefrom, recycling to the inlet of the

reaction zone the residual mixture of normally gaseous products of reaction at a predetermined recycle rate within the range expressed by the value of Y, where Y is above about

$$Y=\frac{4.46}{X}-0.64$$

but not above about

$$Y=\frac{4.46}{X}+0.36$$

where X is the molar ratio of hydrogen to carbon monoxide in the fresh feed reactant synthesis gas, and Y is the recycle ratio expressed as the ratio which the standard volume rate of recycle of the normally gaseous reaction products bears to the standard volume rate of feed of the fresh feed synthesis gas supplied in contact with the catalyst, and continuously including in the feed to the reaction zone water vapor in a molar amount approximating the atomic quantity of carbon which is present as gaseous paraffins in the recycle stream in the absence of the included water vapor.

2,594,302
PROCESS FOR THE RECOVERY OF VALUABLE CONSTITUENTS FROM WASTE SULFITE LIQUOR
Hans Ehrensperger, Montreal, Quebec, Canada, assignor to St. Lawrence Paper Mills Company Limited, Montreal, Quebec, Canada
No Drawing. Application August 22, 1949, Serial No. 111,767
4 Claims. (Cl. 260—124)

1. The recovery of valuable nitrogen-containing constituents from ligneous liquors which comprises treating the liquor with a reagent selected from the class consisting of quaternary ammonium bases and salts and then separating the resulting precipitate from the mother liquor.

2,594,303
MODIFIED DRYING OILS
Charles H. Fisher, New Orleans, La., Morris Zief, Philadelphia, Pa., and Robert C. Hockett, Larchmont, N. Y., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application August 18, 1950, Serial No. 180,318
15 Claims. (Cl. 260—406)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

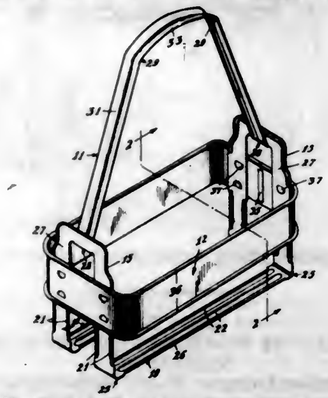
1. A composition comprising the oxidative copolymerization products of a drying oil and a polymerizable, organic solvent soluble monomeric ether of an aliphatic polyhydroxy compound, said ether containing in the ether group an alkenyl radical which is free of substituents other than halogen, which has from 3 to 4 carbon atoms and which contains the grouping

$$CH_2{=}C(-)-C(-)$$

said ether being liquid in the monomeric form.

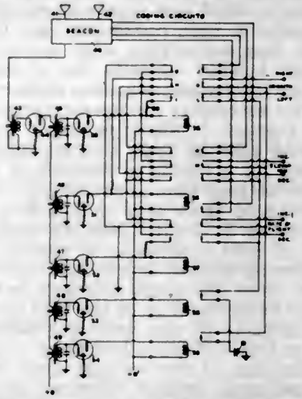
2,594,304
TWO-PIECE PORTABLE CARRIER FOR BOTTLES AND THE LIKE
Nelson Geertsen, Chicago, Ill., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 29, 1947, Serial No. 794,279
5 Claims. (Cl. 224—45)

1. A flat blank for a portable carrier comprising a one piece handle and bottom support element, said blank having a pair of spaced and parallel longitudinal lines of severance terminating inwardly of the ends of the blank and setting off a pair of spaced and parallel longitudinal bar sections connected at their ends and a central



longitudinal handle section, said bar sections adapted to be bent into horizontal support members and upright inverted U-shaped end portions for supporting a plurality of rows of bottles in an upright position, said handle section adapted to be bent outwardly into a carrier handle.

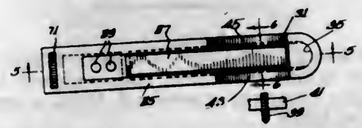
2,594,305
REMOTE-CONTROL SYSTEM WITH SUPERVISORY MEANS
George L. Haller, Dayton, Ohio
Application June 13, 1945, Serial No. 599,295
2 Claims. (Cl. 343—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A system for remotely controlling a number of devices, wherein each device has a plurality of alternative modes of operation; said system comprising a control station for sequentially transmitting a plurality of predetermined signals to a controlled station containing said devices; said controlled station including a receiver of said plurality of signals, a plurality of circuits coupled to said receiver, each of which is selective to a respective one of said predetermined signals, means coupled to a first portion of said plurality of circuits for conditioning for operation any one of said devices in response to the reception of a predetermined signal selected by said first portion of plurality of circuits, said first portion including more than one

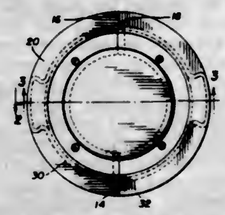
of said circuits, said conditioning means comprising a separate locking relay coupled to each circuit of said first portion, each relay having only one device associated therewith which is conditioned for operation by the actuation of that relay in response to the reception of the predetermined signal selected by the circuit to which that relay is coupled, said relays being connected so that upon actuation of one relay said one relay is locked and a previously locked relay is released, and means coupled to each of the remaining portion of said plurality of circuits for operating that device which has been conditioned in a particular one of said alternative modes in response to the reception of a particular predetermined signal selected by one of said remaining portion of plurality of circuits.

2,594,306
ORGAN REED CONSTRUCTION
Lamar E. Hayslett, Shelbyville, Tenn., assignor to The Rudolph Wurlitzer Company, North Tonawanda, N. Y., a corporation of Ohio
Application July 20, 1949, Serial No. 105,771
12 Claims. (Cl. 84—360)



1. In a musical instrument, a musical tone generator comprising a wind driven substantially flat vibratory reed and frame means disposed longitudinally of said reed for restricting the flow of air past said reed, said means having nonplanar surfaces disposed longitudinally of said reed to cause volumes of air varying with the surface configuration of said frame to flow past different surfaces of said reed.

2,594,307
SECTIONAL PLANT POT
Ralph C. Valenzuela, Los Angeles, Calif.
Application January 24, 1947, Serial No. 724,014
2 Claims. (Cl. 47—37)



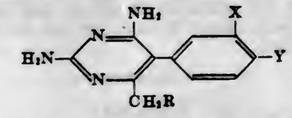
1. A discerptible plant pot including a pair of tapered complementary side wall sections having registrable exteriorly disposed grooves intermediate the ends thereof and having registrable interiorly disposed flanges at the reduced ends thereof, said sections having abutment faces with interlocking portions of V-shaped tongue and groove character adjacent the inner edges of said abutment faces to make a wall of an assembled pot substantially watertight and to assure proper registration of the sections, a disc plate, and a split ring spring to clasp said sections together insertable in said exterior grooves with said plate supported on said interior flanges, said spring having outwardly offset portions comprising handles for the pot and facilitating the assembly and disassembly of the pot.

2,594,308
POTATO JUICE
Edward G. Heisler and Robert H. Treadway, Philadelphia, Pa., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application July 5, 1951, Serial No. 235,356
1 Claim. (Cl. 99—155)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

The process of producing potato juice which comprises maintaining potatoes at a temperature of about from —10° to —20° C. for a length of time sufficient to cause thorough freezing of the tubers, thawing the potatoes to about room temperature, expressing the juice from the thawed potatoes, heating the juice within a period not substantially exceeding 2 hours after expression to about 80°–100° C. until separation of the heat coagulable constituents of the juice is substantially completed, and separating the resulting precipitate from the juice.

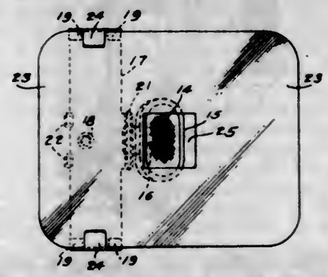
2,594,309
ANTIMALARIAL AGENTS AND METHOD OF PREPARING THEM
George H. Hitchings and Peter Byrom Russell, Tuckahoe, and Elvira A. Falco, New Rochelle, N. Y., assignors to Burroughs Wellcome & Co. (U. S. A.) Inc., Tuckahoe, N. Y., a corporation of New York
No Drawing. Application December 30, 1950, Serial No. 203,791
6 Claims. (Cl. 260—256.4)

1. A 2,4-diamino-5-phenyl-6-alkylpyrimidine of the formula



wherein X is a halogen atom, Y is selected from the group consisting of hydrogen and halogen, and R is selected from the class consisting of hydrogen and alkyl radicals containing 1 to 4 carbon atoms.

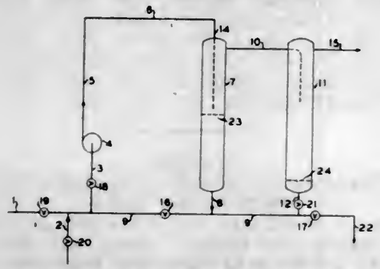
2,594,310
SIGNALING MIRROR
Richard S. Hunter, Franklin Park, Va., assignor to the United States of America as represented by the Secretary of Commerce
Original application July 14, 1944, Serial No. 544,969. Divided and this application October 10, 1949, Serial No. 120,582
3 Claims. (Cl. 116—28)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A signaling device including a mirror having a window of transparent refractive material, a re-

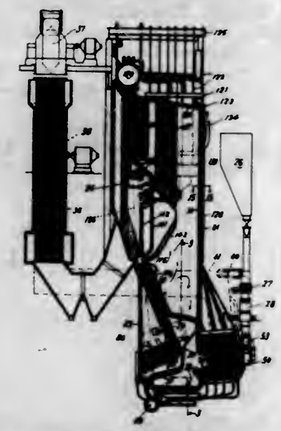
trodirective reflector facing said window and nonparallel with said mirror, the improvement which comprises a color shield having an opening corresponding with the window of said mirror and means for operatively uniting said color screen over said mirror and at a slight angle thereto.

2,594,311
REMOVAL OF CARBONYL SULFIDE FROM LIQUEFIED PETROLEUM GAS
Arthur B. Johnson, Orinda, and Daniel H. Condit, Lafayette, Calif., assignors to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application April 23, 1949, Serial No. 89,286
8 Claims. (Cl. 260—676)



1. The method of removing carbonyl sulfide from petroleum hydrocarbon gases containing carbonyl sulfide and substantially free of other sulfur-containing compounds, which comprises intimately dispersing said hydrocarbon gases in liquid phase in an aqueous solution of monoethanolamine and an alkali metal hydroxide present in the solution in the proportions of 3–6 mols of alkali metal hydroxide per mol of monoethanolamine.

2,594,312
FUEL BURNING APPARATUS
Howard J. Kerr, Westfield, N. J., and James Fletcher and Lambert Kooistra, Akron, and George A. Watts, Barberton, Ohio, assignors to The Babcock & Wilcox Company, Rockleigh, N. J., a corporation of New Jersey
Application August 31, 1944, Serial No. 552,120
6 Claims. (Cl. 122—235)



1. A fluid heating unit having a fluid circulating system and comprising a circumferential wall defining a primary furnace chamber of substantially circular cross-section arranged with its axis substantially horizontal, a row of fluid heating tubes for said wall, means for introducing a whirling stream of air and ash-forming fuel in suspension into one end of said primary furnace chamber and effecting a helical path of travel thereof along the circumferential wall of said chamber, a separate row of fluid heating tubes forming the opposite end wall of said furnace chamber and having bent portions defining an inwardly projecting gas outlet throat flaring towards its discharge end, means for introducing a high velocity stream of combustion air at a location in said chamber between the point of fuel entry and the chamber gas outlet, a slag outlet in the lower part of said chamber, a secondary furnace chamber laterally adjacent and opening to said primary furnace chamber gas outlet throat, an upper and a lower pressure vessel disposed respectively at elevations adjacent the upper and lower limits of said secondary furnace chamber, and downcomer means connecting said vessels, said separate rows of fluid heating tubes communicating with each of said vessels to form parallel natural circulation circuits of said fluid circulating system.

2,594,313
FURNACE BRAZING COMPOSITIONS
Louis G. Klinker, Griffith, Ind., assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application July 27, 1949, Serial No. 107,139
21 Claims. (Cl. 148—25)

1. A composition particularly adapted for use at elevated temperatures in making carbon-free furnace-brazed metallic joints, said composition comprising essentially: (A) a carrier which is a gel of organic material, said carrier having a Conradson residue below about 0.5%; (B) inorganic oxidizing agent having a melting point above about 200° C. and capable of oxidizing carbon by reaction and decomposition at higher temperatures, said oxidizing agent being further selected from the group consisting of the alkali-metal nitrates, nitrites and peroxides and the alkali-earth-metal nitrates and peroxides, and being present in an amount proportional to at least 4 parts thereof by weight for each part of carbon in said Conradson residue, but not substantially in excess of the amount thereof required to scavenge by oxidation all carbon which would be deposited by said carrier in a furnace-brazing operation in the absence of the oxidizing agent; and (C) finely-divided solid material adapted to yield at the brazing temperature a molten brazing metal, said material being selected from the group consisting of metal powders and reducible oxidic compounds of brazing metals; said brazing-metal-yielding material and said oxidizing agent being uniformly dispersed in a sufficient amount of said carrier to provide a smooth paste.

2,594,314
PROCESS FOR PREPARING AN ANTIPERNICIOUS ANEMIA CONCENTRATE
Frank R. Koniuszy, Rahway, and Norman G. Brink and Karl Folkers, Plainfield, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application November 5, 1948, Serial No. 58,596
3 Claims. (Cl. 167—74.6)

1. The process for preparing a concentrate having enhanced activity for treating pernicious anemia and for promoting the growth of *Lactobacillus lactis* Dorner from a crude concentrate of biological origin containing said active material which comprises acidifying an aqueous solution of the crude concentrate to a pH of 1–2, subjecting said acidified solution to extraction with amyl phenol, washing the resulting amyl phenol extract with an aqueous solution of sodium bicarbonate, diluting the amyl phenol extract with petroleum ether, extracting the amyl phenol-petroleum ether mixture with water, removing impurities from the water extract by extraction with mesityl oxide, and recovering from the aqueous solution a purified concentrate of enhanced activity.

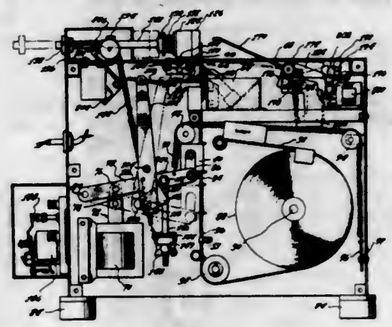
2,594,315
CURRENT-LIMITING FUSE
Frederick J. Kozacka, Amesbury, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application October 25, 1950, Serial No. 192,003
15 Claims. (Cl. 200—120)



1. A current-limiting fuse comprising a first tubular casing, a second tubular casing arranged in spaced coaxial relation in said first casing, means for closing the toroidal spaced formed between said first casing and said second casing at the axial ends thereof, a fuse link arranged in substantially coaxial relation in said second casing and extending straight between the ends thereof, a non-gas evolving granular fulgurite-forming filler in said second casing in immediate contact with said link, passage means arranged substantially at the center of said second casing and the center of said link for the passage of gases from said second casing into said first casing, the cross-sectional area of said passage means exceeding the average grain size of said filler, and pressure responsive sealing means for controlling said passage means, said passage means being the only way of escape of gaseous products from said second casing.

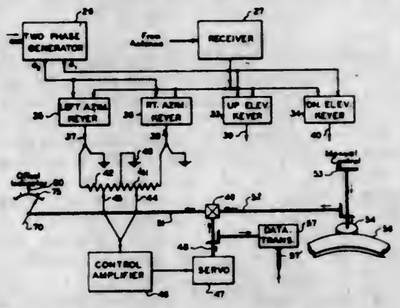
2,594,316
TAPE DISPENSER AND APPLIER
Theodore H. Krueger, Stratford, and Everett E. Sharpe, Shelton, Conn., assignors to Better Packages Incorporated, a corporation of New York
Application March 19, 1949, Serial No. 82,394
23 Claims. (Cl. 216—23)

4. In an electrically operated tape dispenser and applier, tape feeding means comprising a reciprocating tape gripper and means for reciprocating said gripper through a predetermined range of movement, said means including an operating solenoid, a movable abutment for an object to which the tape is to be applied, means for guiding the fed tape across the face of said abutment, means for severing the piece of tape to be applied to the object, a tripping device separate from the movable abutment mounted in the path of the object to which the tape is to be applied, switch means operated by said tripping device for modifying the circuit through the operating solenoid, means for holding the tripping device in the position to which it is moved by an object engaging the same while the abutment is being moved by engagement of the object therewith, and means for releasing said tripping device



for return to its initial position upon return of said movable abutment to its initial position.

2,594,317
CORRECTED DATA TRACKING SYSTEM
Joseph H. Lancor, Jr., East Williston, and John E. Binns, Floral Park, N. Y., assignors to The Sperry Corporation, a corporation of Delaware
Application November 21, 1942, Serial No. 466,392
28 Claims. (Cl. 89—41)

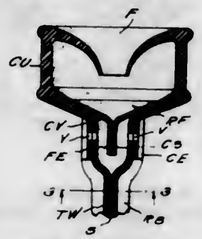


2. Apparatus for determining the orientation of a distant object, comprising means for transmitting a sequence of periodically recurring pulses of high frequency radiant energy, means for receiving said pulses after reflection from said object, at least one of said means having a periodically varying directivity pattern having two different positions forming an equi-signal axis, means for separating pulses received during said two different positions of said pattern, a movable member, and means for positioning said member in accordance with the ratio of the amplitudes of said two sets of pulses.

27. Radio gun control apparatus comprising means for transmitting a sequence of periodically recurring pulses of high frequency radiant energy, means for receiving said pulses after reflection from a target, means for periodically moving at least one of said means into two different angular positions to form an equi-signal axis midway between said positions, means for maintaining the orientation of a gun parallel with said equi-signal axis, means for separating pulses received during said two different positions to form two sets of pulses, means responsive to said pulses for obtaining an electrical measure of the ratio of the difference of the amplitudes of said sets to the sum thereof, means for computing the lead angle required between the gun orientation and the target orientation for effective gunfire, and motive means responsive to said last two named

means for driving the gun and the means which defines the equi-signal axis until the measure of said ratio is equal to said lead angle.

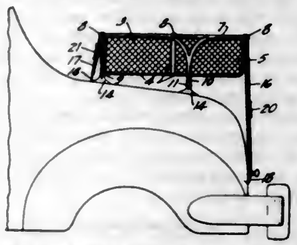
2,594,318
VALVED COUPLING
Jesse D. Langdon, Long Beach, Calif.
Application March 19, 1947, Serial No. 735,732
4 Claims. (Cl. 137—69)



1. A valved coupling unit comprising a casing having inlet and outlet ends and a connecting cylindrical hollow body portion, said casing being made of deformable material capable of returning to normal shape, and having the inlet end formed with a funnel shaped adapter portion, the small end of the funnel projecting forwardly into said cylindrical hollow body portion and the outlet end of said casing extending inwardly of the cylindrical wall of the hollow body, one portion of said outlet end being coniform and extended forwardly of the small end of the funnel, another portion of said outlet being configurated to form a jointing surface conforming with the enlarged end of a tube of flexible material attached thereto, a space formed within the conjoining portions of said another portion and said enlarged end of said tube, a check valve member having a flange flared and extended over the inner surface of the coniform portion of said outlet end and having a lipped portion projecting into the space within said conjoining portions of the tube and the extension, the projecting portion of said check valve extending across vent means communicating with atmosphere thru the wall surrounding said space within said conjoining portions, whereby fluid under pressure within and flowing thru said hollow body, said check valve and said tube will cause the wall of said projecting portion of said check valve to close said vent means, and whereby a sub-atmospheric pressure within said hollow body will permit said tube, said check valve and said hollow body to collapse under the influence of external atmospheric pressure and seal said valved coupling against the ingress of external fluid pressure.

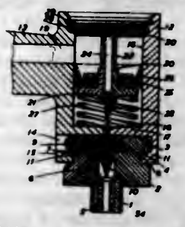
2,594,319
AUTOMOBILE LUGGAGE CARRIER
John Milton Law, South St. Paul, Minn.
Application September 9, 1950, Serial No. 184,014
5 Claims. (Cl. 224—29)

4. A luggage carrier adapted to be mounted upon the trunk door of an automobile, comprising a rectangular luggage-receiving basket and a rack for suspending said basket over and spaced from the automobile trunk door, said rack comprising a rectangular frame slightly longer and wider than said basket and a plurality of supports for maintaining said frame on a substantially horizontal plane a distance upwardly from the surface of the automobile greater than the depth of said basket, the bottom portions of said supports being provided with suction cups adapted to rest upon the surface of the automobile without damage to said automobile, said rack being held in position by straps attached to the frame and to the automobile, said basket being



inserted bottom first into said frame, the rim of said basket being provided with members extending outwardly over said frame to prevent complete passage of said basket through said frame.

2,594,320
LUBRICATION SYSTEM
Camille Clare Sprankling Le Clair, Acton, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain.
Application February 12, 1947, Serial No. 728,082
In Great Britain February 20, 1946
20 Claims. (Cl. 137—69)



1. A nipple fitting comprising a rigid, generally tubular body member having a shank adapted to be fixedly secured to a part to be lubricated and an outer end, said body member having a variable diameter bore extending therethrough of less diameter at said outer end than immediately inwardly of the same and including a shoulder intermediate the ends of said bore, and a compressible closure member adapted to be received in said bore and having an opening extending therethrough, said closure member having a diameter adjacent its outer end sufficiently in excess of the diameter of the outer end of said bore to cause said closure member to be compressively maintained in said bore against removal outwardly and said opening to be maintained resiliently closed, and having a shoulder intermediate its ends adapted to seat upon the shoulder in said bore for maintaining said closure member against axial movement inwardly of said bore.

2,594,321
NUT HOLDER
Edmund H. Leftwich, San Diego, Calif., assignor of fifty per cent to John W. Wilhoit, Jr., Thirty-ninth Medical Group, A. P. O. 942, care of P. M., Seattle, Wash., and Richard M. Wilhoit, San Diego, Calif.
Application December 1, 1947, Serial No. 789,007
1 Claim. (Cl. 81—125)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

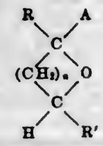
A nut holder comprising a tube, a lead nut, swivel means rotatably mounting said lead nut at one end of said tube coaxially therewith, said means comprising a collar fixed to the end of said tube and having a recess rotatably receiving said lead nut, and spring retaining means between said lead nut and collar, a lead screw threaded to said lead nut and extending into said tube, handle means in the form of a cap fixed to the end of the lead screw so that the lead screw can be held against rotation with respect to said tube, a pair of spring legs forming an extension of said screw, said legs normally diverging out-



wardly at their lower portions in a continuous outward curvature and being restrained inwardly by said tube and protruding from the other end of said tube, and including outwardly directed toes constituting the protruding ends of said legs engageable with the internal threads of a nut to hold the nut in position, said lead nut, when rotated relative to said lead screw, serving to extend or retract said legs and thereby determine the diametral span between said toes for engagement within various sized nuts.

2,594,322
SUBSTITUTED OXACYCLOALKANES
Nelson J. Leonard, Urbana, Ill., assignor to Phillips Petroleum Company, a corporation of Delaware
No Drawing. Application June 9, 1950, Serial No. 167,255
18 Claims. (Cl. 260—333)

13. A substituted oxacycloalkane having a composition in accordance with the structural formula:

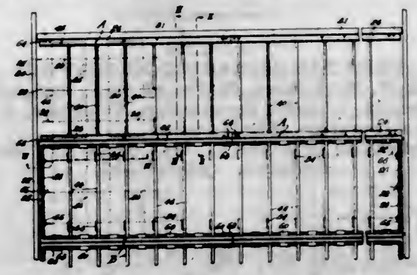


wherein R is an alkyl radical containing from 1 to 4 carbon atoms, R' is selected from the group consisting of hydrogen and an alkyl radical containing from 1 to 3 carbon atoms, the sum of the carbon atoms in R and R' is from 1 to 4, n is an integer of the group 3 and 4, and wherein A is a stable anion of the group consisting of acetoxy and formoxy.

2,594,323
24-SUBSTITUTED DELTA 5-CHOLENE-3,24-DIOLS
Robert H. Levin, A. Vern McIntosh, Jr., and George B. Spero, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan
No Drawing. Application July 22, 1948, Serial No. 40,166
7 Claims. (Cl. 260—397.5)

1. A compound selected from the group consisting of 24-mono-phenyl, 24-mono-anisyl-, and 24-mono-benzyl-delta 5-cholene-3,24-diols and acyl diesters thereof, wherein the acyl group is of the formula AcO, Ac being the residue of an unsubstituted organic monocarboxylic acid containing from 2 to 7 carbon atoms, inclusive.

2,594,324
MOLD FOR CASTING FLEXIBLE REVETMENT MATS
Frank I. Louckes, Memphis, Tenn.
Application May 2, 1950, Serial No. 159,563
7 Claims. (Cl. 25—121)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

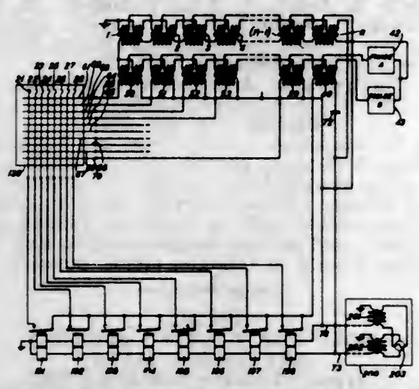


1. A mold flask for casting unit sections of articulated slab revetment mats in stacks of sections, comprising an upper mold section consisting of a frame having end pieces, connecting side pieces for molding the longitudinal side faces of a section and V-shaped cross pieces carried in spaced relation between the side pieces for forming V-shaped grooves in the upper face of a mat section, an underlying lower mold section complementary to the upper mold section and having sides and ends and inverted V-shaped cross pieces aligned with the upper cross pieces in vertical planes, the said cross pieces being permanently united with the sides and ends, means permanently securing the lower mold section to a casting floor, and means adjacent to the sides and cross pieces of the mold flask for molding lifting means in the mat sections for lifting the said sections out of the permanently secured lower mold section subsequently to the upper mold section being lifted from the mat sections.

2,594,325
SPACED PULSE IMPULSE SENDER
Clarence A. Lovell, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 9, 1950, Serial No. 178,447
2 Claims. (Cl. 179—90)

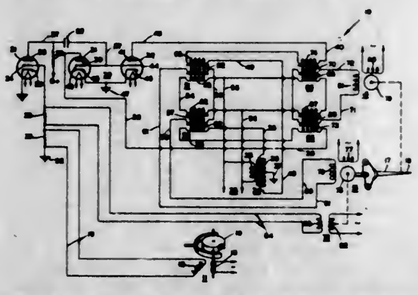
1. A telephone calling system comprising a subscriber's line, apparatus for generating two pulses for each digit representing a number comprising a plurality of impulse coils for generating start and stop pulses, apparatus for supplying said coils as polyphase alternating currents comprising a harmonic generator, connections for supplying

power to said generator from said subscriber's line and a selecting device for selecting the desired stop pulse comprising in combination a



manual selecting device and a plurality of relays actuated one at a time by polyphase alternating currents of the same frequency as applied to said harmonic generator.

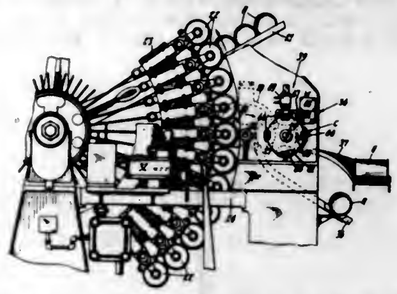
2,594,326
TRIM TAB SERVOMOTOR CONTROL
Alan M. MacCallum, Maywood, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware
Application December 31, 1947, Serial No. 794,882
9 Claims. (Cl. 244—77)



9. In an automatic pilot system for aircraft having a primary control surface and a secondary control surface movable thereon, the combination comprising a source of error signal voltage responsive to craft deviation from a desired position, a first balanced voltage device, a second balanced voltage device connected in series with said first balanced voltage device, both of said devices being connected for unbalance by the error signal of said source, motor means connected to both of said devices for positioning the primary and secondary control surfaces, and means operated during positioning of one of said surfaces for developing a signal in opposition to the error signal of said source.

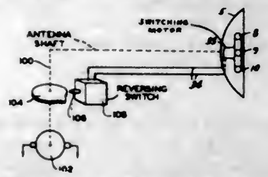
2,594,327
LEAKY CAN REJECT MECHANISM FOR CAN TESTING MACHINES
William W. Maher, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application December 22, 1947, Serial No. 793,084
11 Claims. (Cl. 73—43)

1. In a machine for testing containers for leaks, the combination of a rotatable discharge turret having a pocket for receiving a tested container, a good container chute and a leaky container chute disposed adjacent said turret, a reject drum disposed adjacent said turret and rotatable in time therewith, a backing up member disposed opposite said drum, clamping means carried in said drum and operable against a leaky container in said turret, shifting means



having an operative position for shifting said clamping plate against a leaky container in said turret pocket to clamp the container against said backing up member while the container is moving past said good container chute for delivery into said leaky container chute, and a rotary timing device for moving said shifting means into clamping plate operating position when a leaky can is received in said turret pocket.

2,594,328
ANTENNA SWITCHING SYSTEM
John W. Marchetti, Oceanport, N. J., assignor to the United States of America as represented by the Secretary of War
Application June 27, 1945, Serial No. 601,907
6 Claims. (Cl. 250—33.65)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination, a directional antenna array comprising, a plurality of dipoles, a transmission line, a first connection to connect at least two of said dipoles in opposite phase to said transmission line, a second connection to connect at least one other in the same phase as one of said oppositely phased dipoles, and switching means for alternately selecting said first and second connections, means for rotating said antenna array through a predetermined azimuth angle, and means responsive to the rotation of said antenna array for operating said switching means upon successive rotations of said antenna array through the same azimuth angle.

2,594,329
GAS GENERATOR
Robert L. Mayhew, Great Neck, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application April 30, 1947, Serial No. 745,052
3 Claims. (Cl. 48—196)

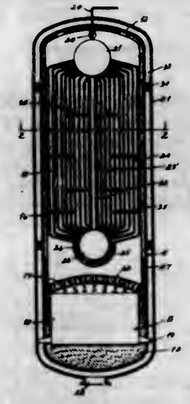
1. A gas generator for the production of carbon monoxide by the interaction of a carbonaceous fuel with oxygen at an elevated pressure which comprises a relatively elongate and substantially vertical cylindrical inner shell closed at its lower end and having a refractory lining; a refractory partition extending across said inner shell dividing it into an enclosed reaction chamber adjacent the lower end of said inner shell and an elongate cooling chamber directly above said reaction chamber, said cooling chamber being open at its upper extremity; reactant inlets in said reaction chamber; an opening in said partition permitting product gas to pass from the reaction chamber to the lower portion of the cooling chamber; a pressure-resistant



closed outer shell concentric with said inner shell and spaced around the outer walls of said inner shell to define an annular passage therebetween; an outlet in said outer shell communicating with said annular passage and located adjacent the lower extremity of the outer shell, the open upper extremity of said inner shell communicating with the upper closed end of said outer shell; and means for cooling said gases in the elongate cooling chamber within said inner shell comprising a multiplicity of bayonet heat exchange tubes extending downwardly from the upper extremity of said outer shell into said cooling chamber within the inner shell.

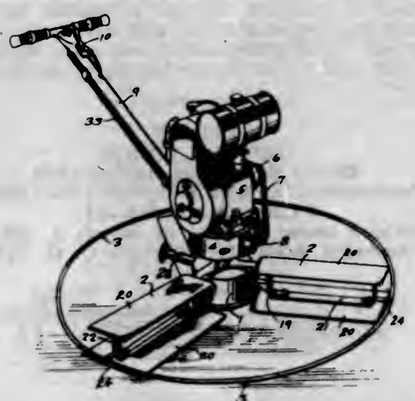
2,594,330
GAS GENERATOR
Robert L. Mayhew, Great Neck, N. Y., assignor to Hydrocarbon Research, Inc., New York, N. Y., a corporation of New Jersey
Application May 6, 1947, Serial No. 746,346
2 Claims. (Cl. 48—196)

1. A gas generator for the production of carbon monoxide by the interaction of a carbonaceous fuel with oxygen at an elevated pressure comprising a relatively elongate and substantially vertical cylindrical inner shell having a refractory lining, a refractory partition extending across said shell dividing it into a reaction chamber and an elongate cooling chamber, said reaction chamber being in the lower extremity of said inner shell, reactant inlets in said reaction chamber, a passageway in said partition permitting the product gases to pass from the reaction chamber to the cooling chamber, gas outlet means from said cooling chamber adjacent the upper extremity of said inner shell, a pressure resistant outer shell concentric with said inner shell and spaced around the outer wall of the inner shell to define an annular passage space therebetween, an outlet in said outer shell from said annular passage space located adjacent the lower extremity of said outer shell, said gas outlet means from said cooling chamber in the upper extremity of said inner shell communicating with the upper portion of said annular passage space, means for cooling the gases in the cooling chamber comprising a steam drum supported in the upper portion of said cooling chamber, a mud drum adjacent the



lower end of said cooling chamber, a plurality of steam generating tubes extending longitudinally of said cooling chamber between said steam and mud drums to form a pattern extending over the transverse area of said cooling chamber, a plurality of downcomer tubes between said drums, and refractory means surrounding said downcomer tubes effective to substantially limit heat transfer between said downcomer tubes and the product gases in said cooling chamber.

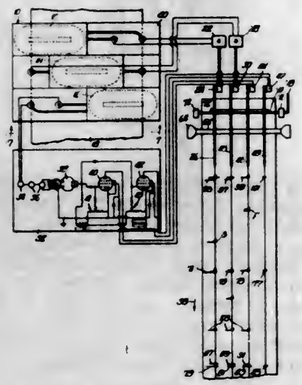
2,594,331
TROWELING MACHINE
Harold E. McCrery, Dayton, Ohio, assignor, by mesne assignments, to Master Vibrator Company, Dayton, Ohio, a corporation of Ohio
Application July 6, 1946, Serial No. 681,711
12 Claims. (Cl. 94—45)



12. In a rotary power driven surface treating tool, a power driven rotatable mount, radially projecting sweeps carried by said mount, each of said sweeps comprising a pair of spaced apart working blades, end brackets interconnecting said blades, a shaft secured to one of said brackets

and received in said mount with freedom of axial and oscillatory movements, said sweeps being individually oscillated by hand relative to said mount to bring said blades selectively into cooperative relation with the work, an oscillatory member on said mount common to the sweeps, movement of which simultaneously oscillates all of said sweeps to a like degree relative to the mount, and a one-way connection between said member and sweeps permitting hand oscillation of the individual sweeps relative to the member and mount.

2,594,332
MULTIPLE COIL PICKUP
Chester W. McKee and Richard W. McKee, Chicago, Ill., assignors, by mesne assignments, to Teledetector, Inc., a corporation of Delaware
Application April 25, 1947, Serial No. 743,794
8 Claims. (Cl. 175—183)



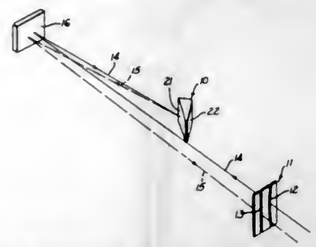
1. Apparatus for detecting defects in rails lying in track comprising a car, means for electrically energizing the rail ball suspended from the car, a flux-responsive coil wound on a non-magnetic core extending lengthwise of the rail ball for less than the length of a typical transverse fissure flux field suspended from said car adjacent a rail and connected to an amplifier, two aligned visual presentation means responsive to amplified potential signals generated by this single flux-responsive coil, and means for limiting one visual presentation means to depicting signals that attain a selected high amplitude.

2,594,333
GAS ARC TORCH
Gustav K. Medicus, Dayton, Ohio
Application March 13, 1951, Serial No. 215,368
5 Claims. (Cl. 219—14)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A gas-arc torch comprising a barrel, converging electrodes in said barrel, gas-obturating means at the rear end of the bore of said barrel, manually actuable means slidable through said obturating means for regulating the degree of convergence, means independently actuable of each other, including a sheave wheel, adapted to engage the rear portion of each electrode for independently feeding each electrode to convergence with the other electrode, means for supplying welding gas to the interior of said barrel and means for supplying electric current to said electrodes through said sheave wheels.

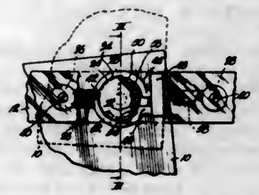
2,594,334
FERY-PRISM MONOCHROMATOR
William C. Miller, Pasadena, Calif., assignor to Beckman Instruments, Inc., a corporation of California
Application September 24, 1949, Serial No. 117,557
5 Claims. (Cl. 88—14)



1. In an apparatus of the character described, the combination of: a Fery prism, said prism having a refractive first surface and a reflective rear surface; and means providing an arcuate entrance slit and a linear exit slit respectively adapted to admit rays of radiant energy to said first surface of said prism and to receive refracted rays therefrom, the radius of curvature, R, of said arcuate entrance slit being related to the index of refraction, n, of said prism, the focal length, f, of said prism and the angle of incidence, i, of the rays impinging upon said first surface of said prism from said arcuate entrance slit substantially in accordance with the equation,

$$R=\frac{n^2 f \cot i}{2(n^2-1)}$$

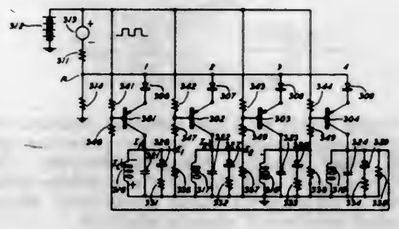
2,594,335
HINGED STRUCTURE
William C. Moeller, Kansas City, Mo., assignor, by mesne assignments, to Parmelee Plastics Company, Kansas City, Mo., a corporation of Missouri
Application October 7, 1946, Serial No. 701,637
2 Claims. (Cl. 16—142)



1. A hinge comprising a member having a continuous, annular groove formed therein; a split, resilient ring partially circumscribing said member and extending into said groove, said ring and said member being relatively rotatable, that part of said member forming the bottom wall of the groove having a number of cavities therein; and an ear on the ring, biased through the resiliency of the ring toward said bottom wall

and selectively fittable into any one of said cavities when aligned therewith through relative rotation of the ring and the member, said ring having a pair of diametrically opposed elongated legs thereon adapted for attachment to an article to be pivotally connected with said member, said ring having a pair of spaced ends, one of said legs extending from one of said ends, the other leg being partially split longitudinally and radially outwardly from said ring.

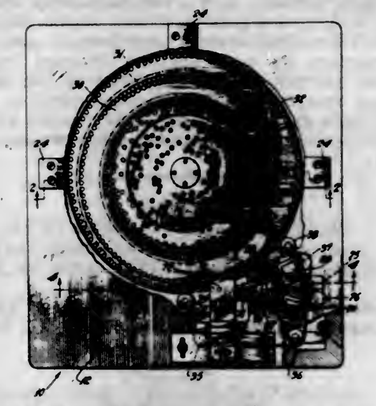
2,594,336
ELECTRICAL COUNTER CIRCUIT
Milton E. Mohr, Pacific Palisades, Calif., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 17, 1950, Serial No. 190,571
10 Claims. (Cl. 171—97)



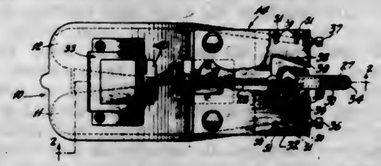
1. An electrical counter circuit comprising in combination a plurality of variable resistance elements each of which has a variational resistance characteristic including a predetermined range of electrical quantities within which either of two stable states obtains for a given operating condition and outside of which range only a single stable state obtains for a given condition of operation, an external network connected across said paths, said network including an electrical potential source, the magnitude of which when so connected is sufficient to give rise simultaneously to values within said predetermined range of electrical quantities for all of said variable resistance elements whereby one of said elements operates in one of said stable states conducting high current and the remaining ones of said elements operate in the other of said stable states conducting low current, means comprising a generator of intermittent electrical pulses to momentarily change the effective value of said electrical potential source, and an energy storage impedance circuit interconnecting each pair of said current-conductive paths and including means for discriminating between the direction of current flow in said impedance circuit, said storage circuit characterized by a condition approximating critical damping, whereby a condition of high-current conduction is shifted from one of said variable resistance elements to the next by means of a broad damped pulse produced in said storage circuit.

2,594,337
COUNTING MACHINE
Harold C. Noe, Upper Montclair, N. J., assignor to Kidde Manufacturing Co., Inc., Bloomfield, N. J., a corporation of New Jersey
Application July 19, 1947, Serial No. 762,018
15 Claims. (Cl. 198—30)

1. In combination, a table having rapid vibratory movement for arranging articles in a single layer, means adjacent said table and rotated relatively thereto for receiving the articles from said table, and means associated with said last mentioned means for arranging and maintaining the articles in single file relation.



2,594,338
ARTICLE DIVERTER
Harold C. Noe, Upper Montclair, N. J., assignor to Kidde Manufacturing Co., Inc., Bloomfield, N. J., a corporation of Delaware
Application April 15, 1948, Serial No. 21,183
7 Claims. (Cl. 193—31)



1. In a diverter, the combination of guideway means defining a pair of paths into which articles are adapted to be directed, a deflector extending longitudinally in said guideway means adapted to be moved from one position to another to selectively direct the articles into said paths and having its trailing end adjacent said paths, means providing an elongate slot extending longitudinally with respect to said guideway means, an element on said deflector adjacent its trailing end slidably positioned in said slot and providing for pivotal and lineal movement of said deflector with respect to said slot, mechanism operable for effecting lineal movement of said deflector, and means connected with the leading end of said deflector for effecting pivotal movement of said deflector upon lineal movement thereof.

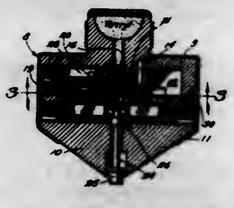
2,594,339
PORTABLE URINAL
James J. Nugent, Miami, Fla.
Application August 14, 1948, Serial No. 44,275
1 Claim. (Cl. 4—110)



An urinal comprising a closed, hollow body having a portion tapering to substantially a point

formed to fit partly beneath and partly between the thighs of a user in sitting, reclining, or semi-reclining posture, and a comparatively wide and deep end, and a generally flat, stable bottom; a spout extending upward and toward said tapering portion for a convenient distance from the middle portion of the deep end of the body in spaced relation to the tapering portion of the body, said spout terminating at a point substantially directly above said tapering portion of the body.

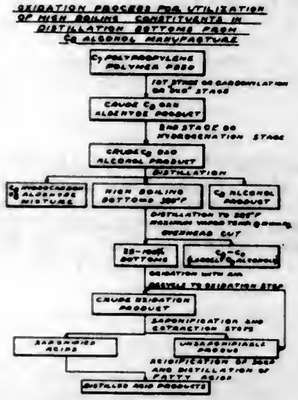
2,594,340
CENTRIFUGALLY ARMED FUSE
George M. O'Rear, United States Navy
Application September 19, 1940, Serial No. 357,421
3 Claims. (Cl. 102—79)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



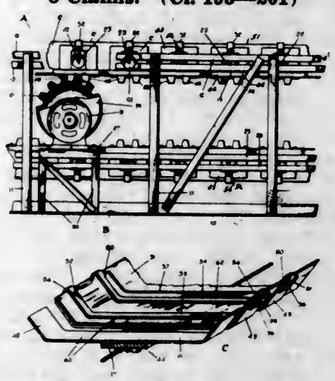
2. A fuze for projectiles that spin about their longitudinal axes, comprising a body, a booster charge therein, an axially extending booster lead connected to said charge, a detonator holder pivoted intermediate its ends and having a portion that covers said booster lead when said fuze is unarmed, a detonator in said holder positioned to be brought into registration with said booster lead when said holder is rotated into armed position, spring pressed detent means engaged with said holder to retain said holder in unarmed position but disengageable therefrom by centrifugal force, an elongated spiral spring having one end attached to said body and the other end attached to said holder to be bent into a substantially U-shape when said holder is in unarmed position and to straighten out to rotate said holder to armed position when said spring pressed detent means are released, a firing pin mounted in alignment with said booster lead to be slidable along the axis of said body, said firing pin having a collar adjacent its inner end, spring pressed firing pin detent means engaged with the inner face of said collar to hold said firing pin in retracted position spaced away from said detonator holder but releasable by centrifugal force.

2,594,341
UTILIZATION OF OXO BOTTOMS
John J. Owen and Egi V. Fasce, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
Application September 13, 1949, Serial No. 115,432
11 Claims. (Cl. 260—418)

1. A selective oxidation process for utilization of mixtures of oxygenated organic compounds produced as still bottoms in a two-stage operation consisting of a first stage in which hydrogen, carbon monoxide and an olefin are contacted in the presence of a carbonylation catalyst forming a product predominantly aldehyde and of a second stage, in which the said aldehyde product is catalytically reduced with hydrogen to form the corresponding alcohol and thereafter removing the major portion of low-boiling alcohol components by distillation, leaving behind a still bottoms product containing a mixture of alcohols, acetals, esters, and ethers as compounds, the major portion of whose components have at least two more additional carbon atoms per molecule than the original olefin, which comprises oxidizing in liquid phase said still bottoms product with an oxygen-containing gas in the presence of a metallic soap oxidation catalyst, whereby a reaction product is obtained which consists essentially of a mixture of fatty acids and neutral compounds which are chiefly alcohols.



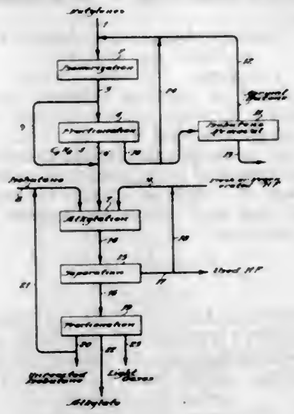
2,594,342
TROUGHED BELT CONVEYER
Don C. Pettyjohn, Crosby, Minn.
Application February 5, 1945, Serial No. 576,274
8 Claims. (Cl. 198—201)



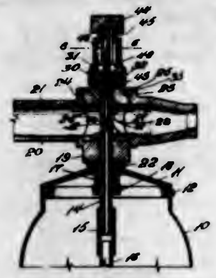
4. A conveyor comprising a series of trough shaped units, the center portion of each of said units projecting into abutting relation with the next adjacent unit, means flexibly connecting adjacent units, a flexible covering overlying a series of said units, and band means on said units extending over said flexible covering to hold said covering against said trough shaped units.

2,594,343
ALKYLATION OF ISOPARAFFINS
Herman Pines, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 20, 1942, Serial No. 466,339
10 Claims. (Cl. 260—683.4)

1. In the alkylation of an isoparaffin with an olefinic fraction containing an olefin having a terminal double bond, the method which comprises catalytically treating said fraction at olefin isomerizing conditions to convert a substantial portion, at least, of said olefin into an olefin having a more centrally located double bond, commingling the thus treated olefinic fraction with said isoparaffin and a hydrogen fluoride catalyst, and subjecting the resultant mixture to alkylation at a temperature of from about 0° to about 100° C.



2,594,344
CARBURETOR
Armand C. Pothier, Woonsocket, R. I.
Application March 20, 1946, Serial No. 655,836
3 Claims. (Cl. 261—44)

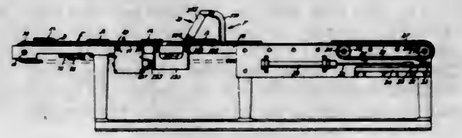


1. A carburetor comprising an air conduit, a fuel conduit extending across the axis of said air conduit at substantially right angles thereto and of a size substantially smaller than the air conduit to permit the passage of air around the fuel conduit from both sides, said fuel conduit having a radial opening into said air conduit at a location in said fuel conduit no greater than ninety degrees from the direction of the leaving air stream when taken in a plane at right angles to the axis of the fuel conduit and a valve comprising a pin threadedly engaging and extending axially of the fuel conduit and of the same diameter as the conduit and having a conical end to extend across said opening an air valve concentric with said pin to control the flow through the air conduit, means to rotate said air valve and means including a split collar frictionally connecting said pin and air valve to rotate the pin in its threaded opening simultaneously with the rotation of the air valve and thereby axially adjust said conical end across said radial opening.

2,594,345
MANUFACTURE OF LINOLEUM CEMENT
Henry L. Powers and Harold A. Reehling, Lancaster, Pa., assignors to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application June 22, 1948, Serial No. 34,458
11 Claims. (Cl. 106—228)

1. A continuous method of making linoleum which comprises forming a finely divided linoleum cement comprised of beaded particles of siccative oil-resin gel and finely divided filler by admixing hot siccative oil-resin gel with finely divided filler at a temperature below 35° F., continuously adding said finely divided mass to a vessel while continuously adding the remaining dry ingredients of the linoleum composition, intimately mixing the resulting mixture, and shaping the resulting mixture into a sheet.

2,594,346
MECHANISM FOR LOADING SHEET MATERIAL INTO MAGAZINES
Carl G. Preis, Forest Hills, N. Y., and Ronald E. J. Nordquist, Maplewood, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey
Application August 5, 1947, Serial No. 766,341
8 Claims. (Cl. 214—6)

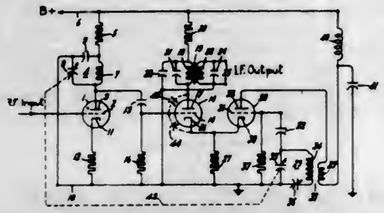


1. A mechanism for loading sheets of material into magazines for subsequent feeding therefrom, comprising in combination, a conveyor, a platform for receiving a stack of individual sheets, means for moving said platform across the path of travel of said conveyor for depositing a stack of sheets on said conveyor, actuating means operable by said platform in its stack depositing position for intermittently advancing said conveyor with its stack of sheets, a magazine disposed adjacent the path of travel of said conveyor for receiving the sheets, and inserting means disposed adjacent said magazine and operable during a rest period of said conveyor in the path of travel of the sheets on said conveyor for shifting the stack of sheets as a unit from said conveyor into said magazine.

2,594,347
INTERMEDIATE FREQUENCY REJECTION CIRCUIT
Robert E. Ricketts, Auburn, N. Y., assignor to General Electric Company, a corporation of New York
Application October 6, 1949, Serial No. 119,928
2 Claims. (Cl. 250—20)

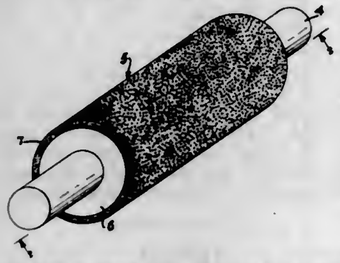
1. In a superheterodyne receiver, means for tuning said receiver to a radio frequency input signal including a tunable parallel resonant network having an inductance and a variable capacitance therein, mixing means including an electron discharge device having a cathode, an anode and a control electrode, an impedance means including a resistance connecting one terminal of said parallel resonant network to said cathode, means for connecting said one terminal to the negative terminal of a source of unidirectional potential, a second capacitance having one electrode thereof

connected to the other terminal of said parallel resonant network and the other electrode thereof connected to said control electrode, thereby supplying said input signal to said mixing, means, means connected in shunt with said impedance means for supplying variable frequency local oscillations thereto, means to maintain a substantially constant frequency difference between said input signal and said oscillations, and a tuned network having one terminal connected to said anode, means for connecting the other terminal of said tuned network to the positive terminal of said



source of unidirectional potential, said tuned network being tuned to the intermediate frequency derived from said mixing means by the heterodyning action of said input signal and said local oscillations, said second capacitance and said inductance being tuned to series resonance at said intermediate frequency and forming a path to conduct to said one terminal of said parallel resonant network signals of said intermediate frequency tending to feed back to said control electrode through the interelectrode capacitance of said electron discharge device, whereby the conversion gain of said device is substantially increased.

2,594,348
RUBBER COVERED ROLL
Joseph Rockoff, Dayton, Ohio, assignor to The Dayton Rubber Company, a corporation of Ohio
Application January 18, 1947, Serial No. 722,802
3 Claims. (Cl. 154—43)



1. A rubber covered roll for the application of liquid materials having substantial stability and resistance to deformation during use, and having a surface possessed of a high degree of porosity, a uniform texture, and a high absorptive capacity for liquids, which comprises a shaft, a solid inner bulk rubber layer surrounding said shaft and mounted thereon, and an outer sponge rubber layer surrounding and integrally united with said inner layer, said outer layer being of less thickness than the inner layer, said outer layer having uniformly distributed therethrough a multitude of channels formed of interconnected uniformly distributed minute pores, said pores conforming in shape to granules of finely divided water soluble material incorporated in said outer layer in the proportion of at least twice as much soluble material by weight as rubber and removed therefrom by leaching.

2,594,349
MANUFACTURE OF ESTRONE
Martin Rubin, Washington, D. C., and Emanuel B. Hershberg, West Orange, and Erwin Schwenk, Montclair, N. J., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application July 2, 1948, Serial No. 38,826
2 Claims. (Cl. 260—397.4)

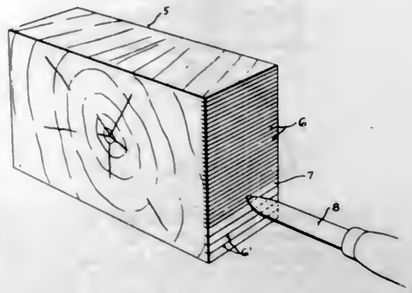
1. A method of making estrone which comprises passing through a zone heated to a temperature of from about 475° to about 575° C. a solution of $\Delta^{1,4}$-androstadienedione-3,17 in a substantial excess of a hydrocarbon having a substantial rate of cracking at the temperature of the heated zone and recovering estrone from the reaction product.

2,594,350
BETA-DIETHYLAMINOETHYL 3-PHENYL-2-HYDROXYBENZOATE MANDELATE
Melville Sahyun, St. Johns, Mich.
No Drawing. Application December 21, 1950, Serial No. 202,126
2 Claims. (Cl. 260—473)

1. Beta-diethylaminoethyl 3 - phenyl - 2 - hydroxybenzoate mandelate.

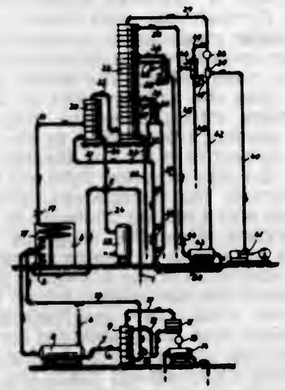
2. The process which includes: mixing substantially equimolecular proportions of mandelic acid with beta-diethylaminoethyl 3-phenyl-2-hydroxybenzoate; and, recovering beta-diethylaminoethyl 3-phenyl-2-hydroxybenzoate mandelate from the reaction product.

2,594,351
METHOD OF MAKING MATCH SPLINTS
Frank Schafer, Oshkosh, Wis., assignor to The Bell Machine Company, Oshkosh, Wis., a corporation of Wisconsin
Application May 19, 1948, Serial No. 27,972
4 Claims. (Cl. 144—309)



1. The hereindescribed method of making wooden match splints which comprises: cutting in one face of a block of wood a plurality of slits running with-the-grain and spaced apart a distance equal to the combined width of a plurality of match splints and to a depth equal to the desired thickness of an individual match splint; cutting a plurality of similar slits in said face of the block between the first slits and parallel thereto and so spaced from said first cut slits and from one another that the distance between any two slits is equal to the desired width of an individual match splint; and slicing off said slitted portion of the block parallel to said face and spaced back therefrom a distance equal to the desired thickness of an individual match splint.

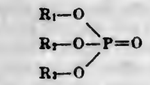
2,594,352
CONTINUOUS DISTILLATION OF TAR
Adolf Schmalenbach, Essen-on-the-Ruhr, Germany, assignor, by mesne assignments, to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application August 27, 1949, Serial No. 117,829
In France August 27, 1948
6 Claims. (Cl. 196—76)



1. A process for the continuous distillation of coal tar with the recovery of fractions with narrow boiling limits, wherein tar is heated in a continuous heater, and is then vaporized as far as the pitch fraction in a separate distilling vessel, and the desired fractions are recovered from the vapour mixture by fractionation in a bubble-cap column, characterized in that for the vaporization of the tar, it is heated in the continuous heater to temperatures between 335 and 350° C. and at about normal pressure, and is vaporized at a reduced pressure of between 300 and 400 m. m. of mercury and with the simultaneous introduction of steam thereto in one stage in the separate distilling vessel, and the fractionation of the vapour mixture from said distilling vessel is carried out with a correspondingly reduced pressure in an adjoining bubble-cap column, with separate withdrawal therefrom of anthracene oil, washing oil, naphthalene oil, and phenol oil fractions.

2,594,353
SOLUTIONS OF POLYMERS OF VINYLIDENE CYANIDE IN ALKYL ESTERS OF PHOSPHORIC ACID
Richard F. Schmidt, Cuyahoga Falls, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application January 7, 1950, Serial No. 137,479
6 Claims. (Cl. 260—30.6)

1. A solution of a polymer of vinylidene cyanide in a solvent comprising a compound of the formula



wherein R_1 is an alkyl radical containing from 1 to 3 carbon atoms and each of R_2 and R_3 is selected from the class consisting of hydrogen and alkyl radicals containing from 1 to 3 carbon atoms.

2,594,354
TRANSVERSE SLIDING BREECH BOLT LOCK
Douglas V. Schnepel, Elmira, N. Y.
Application December 11, 1945, Serial No. 634,826
2 Claims. (Cl. 89—187)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an automatic firearm, a receiver having an opening in the bottom thereof, a barrel fixedly secured to said receiver, a bolt slidably mounted in said receiver for movement to and from battery position, a lock member vertically reciprocable in said bolt, a transverse pin fixedly secured in said lock member, a firing member mounted in said bolt for longitudinal movement to and from a cartridge-firing position, said firing member having an inclined cam slot arranged to engage said transverse pin in said lock member, and means for reciprocating said firing member when said bolt is in battery position whereby said transverse pin follows the inclination of said cam slot and thereby imparts vertical locking and unlocking movement to said bolt lock member into and out of engagement with said opening in said receiver.

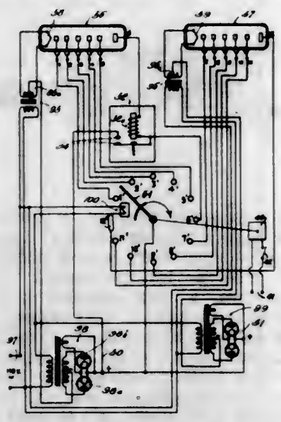
2,594,355
PRODUCTION OF HYDROXYLATED ALIPHATIC COMPOUNDS INCLUDING HYDROXYLATED ALIPHATIC CARBOXYLIC ACIDS AND LACTONES THEREOF
Erwin Schwenk, Montclair, N. J., and Domenick Papa, Brooklyn, N. Y., assignors to Schering Corporation, Bloomfield, N. J., a corporation of New Jersey
No Drawing. Application April 28, 1947, Serial No. 744,517
8 Claims. (Cl. 260—344)

1. The process which comprises subjecting a substituted furan compound to the action of a Raney alloy and an aqueous alkali solution at a temperature not exceeding the boiling point of the alkali solution whereby the furan ring is ruptured and recovering the compound containing a hydroxylated aliphatic chain thereby produced.

2,594,356
ISOLATION OF ALPHA-AMYLASE FROM MALT EXTRACT
Sigmund Schwimmer, Albany, and Arnold K. Balls, Berkeley, Calif., assignors to the United States of America as represented by the Secretary of Agriculture
No Drawing. Application June 24, 1949, Serial No. 101,242
24 Claims. (Cl. 195—64)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

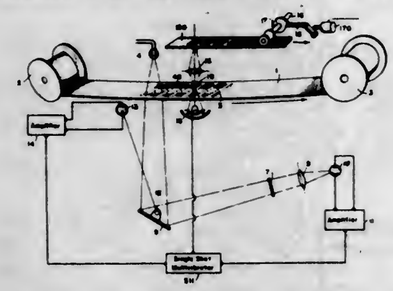
1. A process for isolating alpha-amylase which comprises contacting a partially-purified solution of malt alpha-amylase with a solid amylaceous adsorbent material, eluting the alpha-amylase from the adsorbent material and crystallizing it from the eluate.

2,594,357
ELECTRONIC ANIMATED ADVERTISING SIGN SYSTEM
Richard H. Seaman, Los Angeles, Calif., assignor to Mega Corporation, Los Angeles, Calif., a corporation of California
Application March 3, 1947, Serial No. 731,894
8 Claims. (Cl. 177—346)



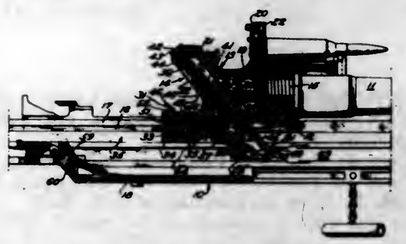
1. An electronic animated advertising sign comprising an evacuated tube of preformed shape containing a rare gas, a source of alternating current, a hot cathode in one end of said tube energized from said source, a multiplicity of sequentially spaced anodes within said tube in electron collecting relation to said hot cathode, a circuit for deriving full wave unfiltered rectified current from said source and for delivering unidirectional current impulses to the electron stream within said tube, means for selectively connecting said circuit to said sequentially spaced anodes for ionizing the discharge paths between said alternating current excited hot cathode and impulse excited anodes with unidirectional current impulses and effecting an emission of light rays for producing fluorescence.

2,594,358
SYSTEM AND APPARATUS FOR SELECTIVE PHOTOGRAPHING
Ralph R. Shaw, Washington, D. C., assignor to the United States of America as represented by the Secretary of Agriculture
Application April 24, 1950, Serial No. 157,839
1 Claim. (Cl. 88—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



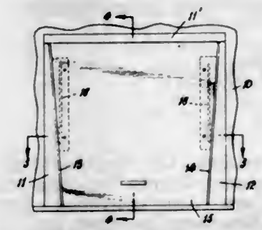
An apparatus for selectively photographing the subject matter presented in a microfilm record, the microfilm presenting a longitudinal series of subject frames and a longitudinal series of code frames providing a code frame for each subject frame, each code frame having at least two code sections, each code section comprising at least one transverse line of opaque code dots on a transparent field, and an opaque trigger dot for each code frame, the subject frame corresponding to a code frame being longitudinally off-set therefrom by at least one code frame, comprising: means for mounting the film for longitudinal movement, a light ray source positioned to pass rays through the code frame area of the film, a selector mask for intercepting these rays, the selector mask having code subject light openings on an opaque field, the mask intercepting the rays when the arrangement of these openings coincides with the opaque dots of a code section, a photocell positioned to receive and be energized by any rays passing through the selector mask; the rays from the light ray source also passing through the transparent field about the trigger dots, and a second photocell in position to be de-energized when the image of an opaque trigger dot falls upon it, means actuated by this sequential operation of the photocells to actuate a copying means for the subject frame selected by the selector mask, two longitudinally spaced opaque trigger dots being provided for each code frame, the copying means including a copying light longitudinally off-set from the first light ray source, the distance between the two lights being fixed, and roller means adjustable to lengthen or shorten the path of the film between the lights by a distance equal to the off-set between a code frame and the subject frame corresponding thereto.

2,594,359
FIRING MECHANISM FOR AUTOMATIC FIREARMS WITH NONAXIAL RECTILINEAR BREECHBLOCK MOTION
Clarence E. Simpson, Springfield, Mass., assignor to the United States of America as represented by the Secretary of War
Original application June 7, 1946, Serial No. 675,124. Divided and this application March 19, 1948, Serial No. 15,945
5 Claims. (Cl. 89—167)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



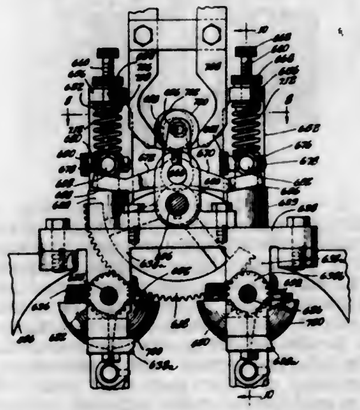
1. In a firearm having a receiver, a barrel extension slidably mounted in said receiver for reciprocating movement, a barrel secured to said barrel extension, a breech block carrier slidably mounted in said receiver for reciprocating movement parallel to said barrel and barrel extension movement, a breech block guide surface on said carrier angularly disposed relative to the path of movement of said carrier and located rearwardly of said barrel extension, a breech block slidably mounted relative to said guide surface for reciprocal movement between two spaced positions on said guide surface, said guide surface having a longitudinal recess, a hammer slidably mounted in said recess, resilient means biasing said hammer downwardly, a sear horizontally mounted in said carrier constructed and arranged to engage the lowermost end of said hammer, means for cocking said hammer, and resilient means biasing said sear forwardly to engage said hammer when in the cocked position whereby said hammer is so held until release of said sear.

2,594,360
GARAGE DOOR
Siegmund Siperek, Detroit, Mich.
Application June 20, 1950, Serial No. 169,080
2 Claims. (Cl. 20—16)



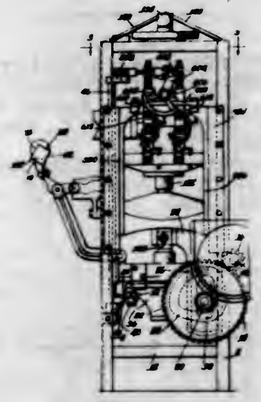
1. In a building structure, in combination, a pair of posts defining the sides of a doorway and extending upwardly from a floor or sill, said posts having their opposed edges inclined and converging toward the bottom of said doorway, a door normally vertically disposed in its closed position between said opposed edges of said posts, the lateral edges of said door converging downwardly to conform to the downwardly tapering doorway, and hinge supports for said door pivoted materially to the rear of said door whereby said door may be swung upwardly and rearwardly to an open overhead position, and downwardly into simultaneous wedging impingement with said posts and with the floor or sill below said doorway.

2,594,361
PEAR PEELING MECHANISM
Henry A. Skog, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Application August 26, 1949, Serial No. 112,454
30 Claims. (Cl. 146—43)



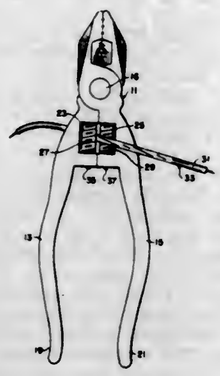
1. In a fruit treating apparatus, in combination with fruit holding means for holding a half fruit with its cut face exposed and with the longitudinal axis of its seed section disposed in a predetermined direction in the holder, an arcuate peeling blade adapted to be juxtaposed to the cut face of the half fruit and with the peeling blade axis lying parallel to the longitudinal axis of the seed section of the half fruit, means for arcuately moving the blade through the flesh of the half fruit to peel the same, means for relatively moving the half fruit holding means and the peeling blade between a juxtaposed peeling position and a remote position, auxiliary fruit holding means disposed to contact the cut face of the half fruit during the peeling operation to maintain the peeling position of the half fruit in its fruit holding means, means for maintaining the auxiliary fruit holding means in contact with the cut face of the half fruit until the peeling blade and fruit holding means have been moved relatively apart sufficiently to prevent peeling unsevered from the half fruit in the fruit holding means entangling with the peeling blade and pulling the half fruit out of its fruit holding means and means thereafter operative in timed relation with the relative movement of the peeling blade and the fruit holding means for moving the auxiliary fruit holding means out of contact with the cut face of the half fruit.

2,594,362
FRUIT PITTING AND PEELING APPARATUS
Henry A. Skog, Olympia, Wash., assignor to Special Equipment Company, Portland, Oreg., a corporation of Oregon
Application February 9, 1950, Serial No. 143,216
54 Claims. (Cl. 146—28)



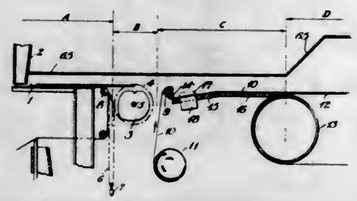
1. In a device of the class described in combination with a pair of relatively flat blades adapted to be disposed in substantially a common plane and having edge portions for cutting the fleshy parts of a whole fruit and having edge portions for receiving therebetween and for gripping the pit of said whole fruit, a pair of blade-like separators adapted to be juxtaposed on opposite sides of the blades and each having recessed means for receiving the pit of the whole fruit therein and means for operating the blades to cut the whole fruit and to grip the pit thereof and for shifting said last mentioned separators away from said blades whereby to separate the severed halves of fruit from the pit held by the blades.

2,594,363
WIRE STRIPPER
Gene B. Stephenson, Sheridan, Oreg.
Application May 31, 1950, Serial No. 165,281
5 Claims. (Cl. 30—91)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



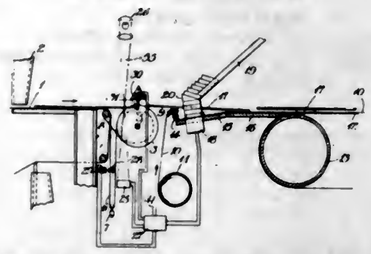
3. In a tool for the removal of insulation from wires, the combination of a pair of pivoted crossed levers, the inner faces of said levers being provided with mutually opposing recesses, a pin disposed in each of said recesses and a cutting member rotatably carried by each of said pins, each of said members having a substantially helically positioned cutting edge, said edges of both members having the same direction of pitch.

2,594,364
APPARATUS FOR THE MANUFACTURE OF PHONOGRAPHIC DISKS
Albert B. St. Hilaire, Paris, France, assignor to La Societe "Pyral" S. A. R. L., Paris, France, a corporation of France
Application August 1, 1946, Serial No. 687,785
In France April 6, 1946
20 Claims. (Cl. 91—55)



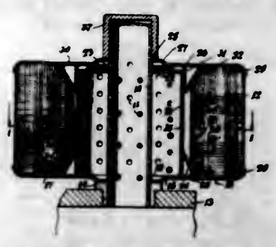
1. In a transfer device for transferring, in a generally horizontal direction a succession of flat work pieces from one conveyor to another, the improvement comprising releasing means at the discharge end of the first conveyor for engaging the underside of each flat work piece as it leaves the first conveyor and for releasing, supporting and advancing the flat work piece along its normal path of travel, and carrier means adjacent the release means and charging end of the second conveyor for engaging the under-side of each flat work piece as it leaves the release means and for receiving, carrying and depositing each such work piece on the second conveyor.

2,594,365
METHOD OF MANUFACTURE OF PHONOGRAPHIC DISKS
Albert B. St. Hilaire, Paris, France, assignor to La Societe "Pyral" S. A. R. L., Paris, France, a corporation of France
Continuation of abandoned application Serial No. 687,784, August 1, 1946. This application June 9, 1951, Serial No. 230,818. In France April 6, 1946
3 Claims. (Cl. 117—103)



1. In the method of manufacturing blank phonographic discs wherein the discs while horizontally disposed are conveyed successively through a coating zone, to coat the upper surface of each disc, a transfer zone, and a drying zone, the improvement which comprises discharging each coated disc from the coating zone to the transfer zone, initiating movement of a supporting element into position for contact with the lower surface of the coated disc in accordance with the advance of the coated disc through the transfer zone, correlating the movement of the coated disc in the transfer zone with the movement of the supporting element in such manner that the supporting element is brought into contact with the lower surface of the coated disc substantially centrally thereof, and discharging the coated disc and supporting element as a unit from the transfer zone to the drying zone.

2,594,366
SPINDLE ADAPTER FOR SUPPORTING RAYON CAKES
Ernest A. Stienen, Peekskill, N. Y.
Application August 2, 1948, Serial No. 42,026
4 Claims. (Cl. 242—110)



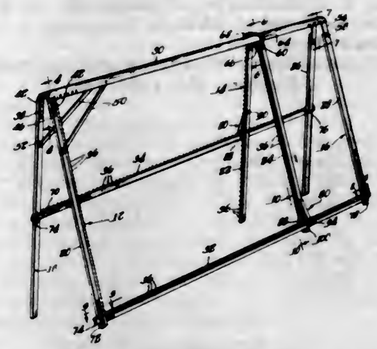
1. In a spool adapter for supporting rayon cakes during a dyeing process in which the cakes are provided with a predetermined outside diameter and a variable inside diameter, means including an annular base element adapted for slidable mounting on a perforated dye spindle, a frusto-conical ring on said base, an annular top element, means including a perforated shell telescopically interconnecting said base and top elements on said spindle, said shell being rigidly secured to said base element, a frusto-conical ring on said top, and an expansible mandrel adapted to ride on said rings for compressing a rayon cake to a predetermined density.

2,594,367
GINGIVAL-APERTURE DENTAL MATRIX BAND
Benjamin F. Toffiemire, Lafayette, Calif.
Application December 12, 1950, Serial No. 200,411
4 Claims. (Cl. 32—63)



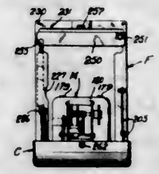
1. In a dental matrix band: a strip of material adapted to be looped around a tooth in embracing relation with the axial contour thereof; the strip providing arms adapted for attachment to a matrix retainer; this strip, when thus looped, presenting an exterior surface on its looped portion facing away from the tooth; this portion having an aperture therein piercing the strip through which a filling may be inserted into a tooth cavity communicating with the aperture; this aperture having an entrance end defining an unobstructed rim, which is disposed flush with the exterior surface of the strip; the aperture being sufficiently large to give a clear view therethrough for checking the adaptation of the strip to the tooth, and being dimensioned for accommodating pluggers for unobstructed condensing of the filling in any direction within the tooth cavity; this rim of the aperture providing a smooth guide for an instrument in trimming the area of the filling within the aperture.

2,594,368
FOLDING CURTAIN STRETCHER
Kenneth J. Unwin, Kenosha, Wis., assignor, by mesne assignments, to Quaker Stretcher Company, Kenosha, Wis., a corporation of Wisconsin
Application May 24, 1947, Serial No. 750,333
8 Claims. (Cl. 45—24)



1. A unitary, folding type curtain stretcher comprising a plurality of horizontally spaced upright frame members, a ridge member extending across the upper ends of said upright frame members, horizontal frame members adapted to extend at right angles to said upright frame members, and pivotal connecting devices between said ridge member and said upright frame members whereby said upright frame members may be pivoted into substantial parallelism with said ridge member, at least one of said connecting devices permitting adjustment of an upright frame member longitudinally of said ridge member.

2,594,369
FIRE ALARM SIGNAL STATION BOX
Leo L. Verkuil and James E. Russo, Norwalk, Conn., assignors to Edwards Company, Inc., Norwalk, Conn., a corporation of New York
Application October 30, 1950, Serial No. 192,977
80 Claims. (Cl. 177—377)

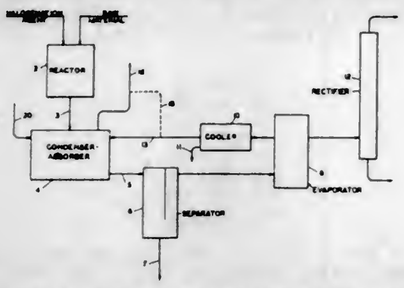


1. A fire alarm signal station box comprising a casing part substantially open at its front and having entry means for conductors, an open frame mounted at the front of said casing part and having spaced terminal block supports with means for changing the length of the spacing therebetween, a second casing part closing over said first casing part and having means connecting it to said frame for downward pivoting movement of substantially ninety degrees, the front wall of said first casing part having an aperture of substantial size surrounded by inwardly projecting walls forming a well, a gear train mechanism including a driving motor and signal switch means and conductors leading from the latter, said mechanism being secured adjacent the inner end of said well and projecting through said open frame and into said first casing part, an alarm lever at the front end of said well and pivoted for movement outwardly from said front wall for actuating said mechanism, a terminal block having terminals with front and rear connectors, the terminals numbering substantially the same as said switch conductors and the length being proportional to the number of its terminals, the spacing between said supports being changed according to said length to leave said connectors unobstructed for connection thereto of said first-mentioned conductors and said switch conductors, locking means to hold said second casing part in closing position and against being swung downwardly upon actuation of said lever, a shield overlying the front of said terminal block and having a length to cover over the longest spacing between said spaced supports, and means supporting said shield for movement out of terminal-block covering position along a path to project said shield as an obstacle to completing the closing relation of said second casing part to said first casing part.

2,594,370
METHOD OF SEPARATING METAL HALIDES
Dick M. Warburton, Painesville, Ohio, assignor to Diamond Alkali Company, Cleveland, Ohio, a corporation of Delaware
Application May 14, 1947, Serial No. 747,959
8 Claims. (Cl. 23—87)

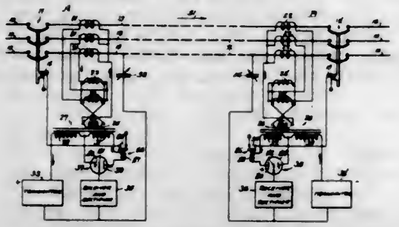
1. The method of obtaining a purified halogen compound of an element selected from the group consisting of group IV elements and boron, which includes the steps of contacting a raw material containing such element and impurities, at least some of which are halogenatable with elemental halogen, under reaction conditions to produce a mixed reaction product containing the vaporized halide of such element, vaporized halides of impurities, and residual free halogen, contacting said mixture with a liquid hydrocarbon solvent, halogenatable by free halogen, having a preferential

solubility for said compound and being chemically indifferent to said products of reaction under halogenation conditions for said solvent, to dissolve the halide of said element, precipitate the



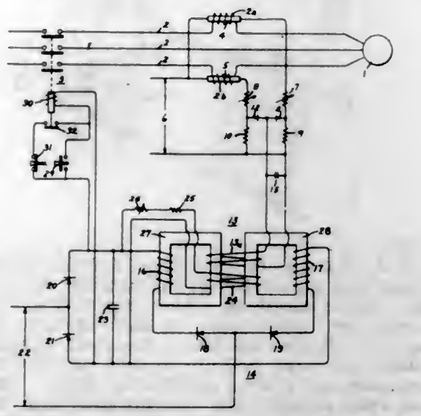
halides of impurities, and halogenate said solvent with said residual halogen, separating the solid undissolved halides of impurities from said mixture, and distilling the remaining liquid mixture to isolate the halide of said element.

2,594,371
DIFFERENTIAL PROTECTIVE RELAYING SYSTEM
Robert I. Ward, Itasca, Ill.
Application June 14, 1946, Serial No. 676,605
12 Claims. (Cl. 175—294)



1. In a protective relaying system for an alternating current polyphase transmission line having a circuit breaker at each end and tripping means for tripping said circuit breaker, the combination of protecting apparatus at each end of the line comprising a relay tube controlling said tripping means, said relay tube including a cathode, plate and control grid, a carrier-current transmitter operatively connected with said line for transmitting carrier pulses to the control grid of the relay tube at the other end of the line, a carrier-current receiver operatively connected with the line for receiving the carrier pulses from the far end of the line and applying them as negative blocking pulses to the control grid of the associated relay tube during external fault conditions on said line, and potential deriving means operatively connected with said line for supplying phase angle comparison potentials to the plate circuit of said relay tube and to said carrier-current transmitter, said potential deriving means comprising line current transformers for each of the phases, a saturating transformer having its primary connected in circuit with the secondaries of said line current transformers, a pair of unequal ratio current transformers having their primaries energized by the output of two of said line current transformers, the secondaries of said unequal ratio transformers being cross connected with the primary of said saturating transformer in boosting relation to the current flow received directly from said line current transformers, said saturating transformer having two secondary windings, one connected to the plate circuit of said relay tube and the other connected with the input side of said carrier-current transmitter, said carrier-current transmitter comprising a transmitting tube having a control grid connected with the latter secondary of said saturating transformer and having a plate circuit coupled in carrier transmitting relation with one of the conductors of said transmission line for transmitting carrier pulses over said line, said carrier-current receiver comprising a receiving tube having a control grid operatively connected to receive the carrier pulses which are carrier transmitted from the transmitter at the other end of the line, and a plate circuit operatively connected with the control grid of said relay tube, the potential deriving means at opposite ends of the line being operative under normal conditions and under through fault conditions to maintain a phase relation wherein the carrier pulses from opposite ends of the line are substantially 180° out of phase with each other and are effective to apply negative blocking pulses to the grids of the relay tubes at the other ends of the line substantially in phase with the positive polarity alternations applied to the plate circuits of said latter relay tubes whereby said latter tubes are effectively blocked against plate circuit conductivity during such normal and through fault conditions, and wherein said potential deriving means is operative under internal fault conditions to establish a phase relation wherein the carrier pulses from opposite ends of the line are placed substantially in phase with each other and out of phase with the positive polarity alternations applied to the plate circuits of said relay tubes so that said carrier pulses are no longer effective to block said relay tubes but said relay tubes become conductive for energizing said trip means to trip said circuit breakers.

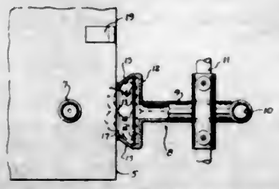
2,594,372
SHOCK RESISTANT STATIC OVERLOAD RELAY
Vernon J. Wattenberger, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 12, 1951, Serial No. 215,160
3 Claims. (Cl. 175—294)



1. A shock resistant static overload relay comprising a rectifier bridge, a saturable reactor having a core and a pair of reactive windings respectively connected in adjacent arms of said rectifier bridge and wound upon said core to

induce saturating flux therein when said relay is connected between a source of supply and a load to cause currents of operating value to flow in said load, a signal source, a voltage divider circuit including a D.-C. winding wound upon said core and polarized for flow of current therein to induce flux in said core to oppose said saturating flux, a negative coefficient resistor connected to one lead of said signal source, a fixed resistor connected between said negative coefficient resistor and the other lead of said signal source, a rectifier connected between said resistors, and to one terminal of said D.-C. coil, the other terminal of said D.-C. coil being connected to the other lead of said signal source and a detector coil wound around said negative coefficient resistor, said divider circuit being responsive to sustained flow of current in said detector coil above a predetermined value to cause a flow of current in said D.-C. coil to unsaturate said reactor and restrict the flow of current to said load to less than said operating value.

2,594,373
SHEET SEPARATOR AIR BLAST NOZZLE
George F. Watson, Racine, Wis., assignor to The Christensen Machine Company, Racine, Wis., a corporation of Wisconsin
Application March 3, 1950, Serial No. 147,375
5 Claims. (Cl. 271—26)



1. A fluffing nozzle for sheet feeders for effecting preliminary separation of the topmost sheets of a supply thereof, comprising: means defining a hollow nozzle head having an air inlet; means including two forwardly extending side walls on the front of the head defining an air outlet; said head having two discharge orifices opening to the front thereof and spaced a distance laterally from one another and from said side walls, through which air supplied under pressure to the hollow interior of the head issues to flow forwardly in unconfined streams in the nozzle outlet, said side walls and the orifices being so angularly disposed relatively to one another that the air issuing from each orifice impinges the side wall adjacent thereto at an angle and at an area thereof located a distance ahead of its junction with the front of the head so that the air impinging the side walls is deflected inwardly toward a zone centrally between the side walls as it passes forwardly out of the nozzle outlet.

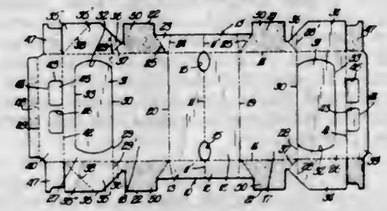
2,594,374
STREPTOMYCIN-POLYMYXIN-BACITRACIN COMPOSITION
Henry Welch, Silver Spring, Md., assignor to the United States of America
No Drawing. Application October 11, 1949, Serial No. 120,811
3 Claims. (Cl. 167—55)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A therapeutic antibiotic composition for oral administration composed of streptomycin, polymyxin, and bacitracin, said composition being capable of substantially suppressing coliform bacteria in the intestinal tract without substantial adverse effects.

2,594,375
INHERENTLY PROCESSABLE INTERPOLYMERS OF VINYL CHLORIDE, A HIGHER ALKYL ACRYLATE, AND A MONO-ISOOLEFIN
Robert J. Wolf, Cleveland, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application February 1, 1950, Serial No. 141,861
5 Claims. (Cl. 260—80.5)

1. An interpolymer made by polymerizing in aqueous emulsion a mixture of monomeric materials consisting of from 45 to 85% by weight of vinyl chloride, from 10 to 50% of an alkyl acrylate in which the alkyl group contains a total of 8 to 10 carbon atoms and possesses a carbon chain of from 6 to 10 atoms, and from 5 to 30% by weight of isobutene.

2,594,376
BOTTLE CARRIER
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application November 13, 1947, Serial No. 785,654
2 Claims. (Cl. 229—52)

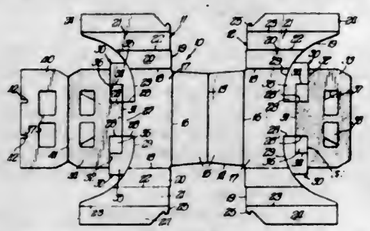


1. A collapsible carrier for bottles and like articles, comprising in erected condition a bottom, side walls flexibly connected to opposed side margins of said bottom, and end walls, said end walls including a pair of flaps of substantial area connected to end margins of said side walls and secured in substantially overlapped relation to one another in the general plane of the end wall in said erected condition, said end wall flaps being foldably collapsible to superposed relation to one another between said side walls in a relatively flat, knock-down condition of the carrier, means having restraining engagement with the internally disposed panel of said pair to assist in maintaining said carrier in said erected condition, and a further end wall member including gusset connected portions hingedly connected to each of said side walls and bottom and disposed between said side walls in said knock-down condition, one of the portions of said end wall member being adhesively secured to one of said side walls and the other portion of said member extending between and further bracing said side walls and bottom adjacent the latter in said erected condition.

2,594,377
BOTTLE CARRIER
Edwin L. Arneson, Morris, Ill., assignor to Morris Paper Mills, Chicago, Ill., a corporation of Illinois
Application February 15, 1949, Serial No. 76,607
1 Claim. (Cl. 229—28)

A collapsible carrier for bottles or like articles comprising a pair of upstanding side walls con-

nected to one another by a medially bendable bottom, an upstanding multi-ply panel paralleling and between said side walls, end walls flexibly conjoined to opposite end margins of said side walls and to said panel, being interleaved with the plies of the latter, and cross partitions cut from the material of said side walls and panel and positioned normal thereto in the erected condition of the carrier, said cross partitions being connected by vertical hinges to said respective side walls and the nearest adjacent ply of said panel, being coplanar therewith in the collapsed condition of the carrier, a portion



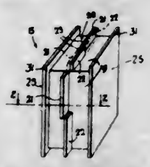
of each of said cross partitions extending from and swinging freely from the side wall hinge thereof and being relatively inflexible in character whereby to constitute a bracing and locking element, and another portion being provided with a bend line intermediate the side wall and panel hinges thereof, said panel including an intermediate ply which is provided with a detent formation engaging said first named portion of said cross partition to hold the latter in operative position normal to said side walls and panel, said last named ply of said panel being remote with respect to the partition engaged thereby.

2,594,378

HOLLOW INTERLOCKED BUILDING BLOCK AND WALL

Nicholas T. Baldanza, Rutherford, N. J., assignor, by mesne assignments, to Columbia Protektosite Co., Inc., Carlstadt, N. J., a corporation of Delaware

Application July 5, 1947, Serial No. 759,143
13 Claims. (Cl. 72—41)



2. A building block comprising a four sided rectangular intermediate tubular body having end closure walls forming front and rear faces of the block, interlocking means projecting from opposite sides of said body each including a pair of equal length ribs disposed in offset relation with respect to each other in opposite directions from a first plane extending therebetween, said pair of ribs being of equal height and each of a thickness less than one-half the width of the body side and being positioned in offset relation with respect to each other in opposite directions from a second plane passing through the center of the block perpendicular to the first mentioned plane for interfitting with similar ribs on adjoining blocks positioned in abutment therewith and with aligning closure walls of the blocks to form an exterior wall surface spaced from said ribs.

2,594,379

FLAVORING MATERIALS AND METHOD OF PREPARING THE SAME

William E. Barch, New York, N. Y., assignor to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Application September 16, 1950, Serial No. 185,341
18 Claims. (Cl. 99—140)

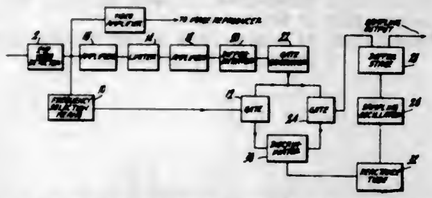
1. Process of preparing flavoring materials which comprises passing hydrogen sulfide through a solution of a carbonyl compound of the group consisting of aliphatic aldehydes and aliphatic methyl ketones whose longest chain contains not more than 6 carbon atoms and cyclohexanone, in an aliphatic ester of a hydroxy polybasic acid.

2,594,380

SYNCHRONIZING APPARATUS FOR COLOR SIGNAL SAMPLING OSCILLATORS

Loy E. Barton and Peter H. Werenfels, Princeton, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application April 1, 1950, Serial No. 153,396
2 Claims. (Cl. 178—7.3)



1. A television receiver having means for synchronizing a sampling oscillator with a portion of the received signal located on the back porch of the transmitted signal comprising in combination a second detector, a limiter connected so as to receive the output of said second detector, said limiter being biased to pass only those signals in excess of a predetermined level, a differentiation circuit connected so as to receive the signals passed by said limiter, a gate signal generator connected so as to be triggered by the output of said differentiation circuit, a first gating means and a second gating means connected to the output of said gate generator so as to be capable of passing signals during the presence of said gating signal, a frequency selective circuit connected so as to receive the output signals of said second detector, said frequency selective means being adapted to accentuate the frequency of the signals appearing on the back porch of the transmitted wave, the output of said circuit being applied to said first gating means, connections between the output of said sampling oscillator and said second gating means, a discriminator, said discriminator being connected to the outputs of said first and second gating means, and a reactance tube adapted to control the frequency of said sampling oscillator in accordance with this output of said discriminator.

2,594,381

4-QUINAZOLINE SULFENAMIDES

Adolph J. Beber, Copley, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 29, 1949, Serial No. 118,728
2 Claims. (Cl. 260—256.5)

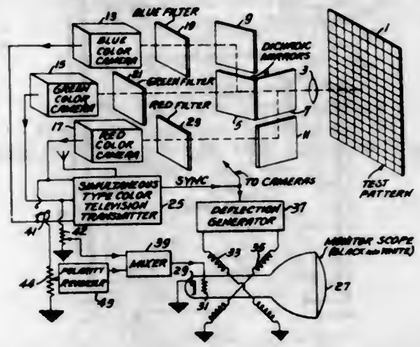
1. 4-Quinazolyl diamyl sulfenamide.

2,594,382

REGISTRATION MONITORING

Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 9, 1948, Serial No. 48,391
10 Claims. (Cl. 178—5.2)



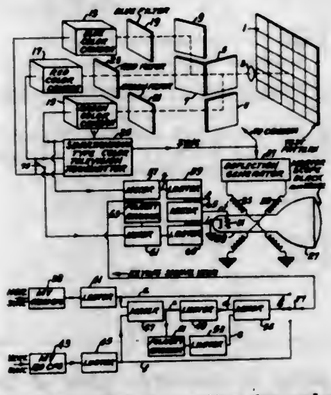
1. An image monitor arrangement for systems of the type involving a plurality of image signal producing cameras, each with associated signal amplifying circuits, said monitor arrangement comprising an object having cross lines and positioned to project component color images on all of said different selected component color cameras, a monitor scope having a signal input circuit, an electrical mixer having an output circuit connected to said scope input circuit, a pair of input circuits for said mixer, a connection between one signal input circuit of said mixer and one of said signal amplifying circuits associated with said cameras, and a connection between the other of said signal input circuits of said mixer and another of said signal amplifying circuits associated with said cameras.

2,594,383

REGISTRATION MONITORING

Alda V. Bedford, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 29, 1948, Serial No. 51,717
13 Claims. (Cl. 178—5.2)



1. An image registry monitor for color television systems of the type employing scanning and including a plurality of different selected component color image signal producing cameras each with associated signal amplifying circuits, said image registry monitor comprising a test pattern having cross lines oriented in substantially horizontal and vertical directions, means positioned to project component color images of said test pattern on all of said different selected component color cameras, a monitorscope having a signal input circuit, and a switching arrangement for alternately applying in respective periods of predetermined durations the image signals of any two of said image signal producing cameras to said signal input circuit.

2,594,384

FUNGI AND BACTERIA RESISTANT PAPER-MAKERS' FELTS AND PROCESS FOR PREPARING SAME

Paul George Benignus, Belleville, Ill., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 12, 1946, Serial No. 709,105
10 Claims. (Cl. 117—138.5)

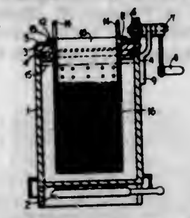
1. A process for increasing the resistance of fibrous materials to the activity of fungi and bacteria comprising contacting the fibrous material with an aqueous composition containing a relatively water insoluble 8-quinolinolate selected from the group consisting of copper, zinc and cadmium derivatives of 8-quinolinol, 5,7-dibrom-8-quinolinol and 5,7-dichlor-8-quinolinol, a film-forming protective colloid, a surface active agent, a resin-forming amine-aldehyde composition, and an amine-aldehyde condensation catalyst; drying the impregnated fibrous material; heating the impregnated fibrous material for 3 to 20 minutes at 250 to 320° F.; contacting the impregnated fibrous material with an aqueous composition containing a water repellent, a resin-forming amine-aldehyde composition, an amine-aldehyde condensation catalyst and a dispersing agent comprising a fatty acid salt of a fugitive base; drying the impregnated fibrous material, and heating the impregnated fibrous material for 3 to 20 minutes at 250–320° F.

2,594,385

HEATING OF COFFEE BEANS

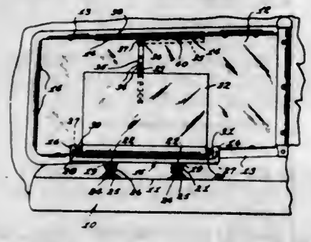
Ronald Oliver Blench, Hillside, Southport, England, assignor to E. Griffiths Hughes Limited, Salford, Lancashire, England

Application October 23, 1946, Serial No. 705,225
In Great Britain June 29, 1946
6 Claims. (Cl. 99—68)



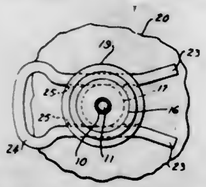
1. A process of heat treating coffee beans, consisting in immersing unroasted coffee beans in a bath of molten, heated high-grade paraffin wax which is inert chemically and in regard to flavour and taste, non-toxic, chemically pure and free from odour and taste, keeping the coffee beans in the said paraffin wax until they have become roasted by heat received from the heated paraffin wax, removing the thus roasted coffee beans from the bath of paraffin wax whilst it is still molten and removing surplus paraffin wax from the coffee beans after they have been removed from the bath.

2,594,386
ANTIGLARE SHADE FOR WINDSHIELDS
Gus A. Biessen, Richmond, Calif.
Application March 21, 1950, Serial No. 150,998
2 Claims. (Cl. 296—97)



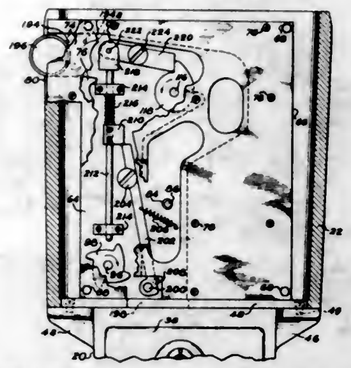
1. A glare shade for an automobile windshield having a marginal molding, there being a dashboard adjacent to the bottom of the windshield, said glare shade comprising a substantially horizontal elongated low mounting bar arranged adjacent to the bottom of the windshield, attaching means secured to the mounting bar for detachably securing it to the dashboard, a substantially horizontal shade roller journaled upon the mounting bar and arranged close to the top of the mounting bar and adjacent to the bottom of the windshield, a flexible glare eliminating sheet wound upon the shade roller and adapted to be unwound therefrom, an attaching element secured to the free edge of the sheet near the transverse center of the sheet, an elongated mounting strip secured to the marginal molding at the top of the windshield and disposed above the roller and mounting bar, an elongated depending strap having its top end pivotally secured to the mounting strip near the longitudinal center of the mounting strip and arranged near the transverse center of the sheet, the depending strap including a plurality of longitudinally spaced hooks, the attaching element of the sheet being engageable with any of the hooks of the strap for releasably holding the sheet in an elevated position, and a spring clip secured to the mounting strip near one end thereof and adapted to engage the strap for holding it elevated and adjacent to the top of the windshield when the strap is swung upwardly beneath the mounting strip.

2,594,387
FISHING DEVICE
William R. H. Breuer, St. Albans, N. Y.
Application October 12, 1950, Serial No. 189,773
8 Claims. (Cl. 43—42.06)



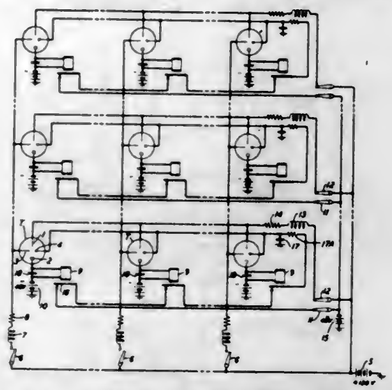
1. In a device of the character described, in combination, a tubular fish hook having a continuous unobstructed passage throughout the length thereof terminating in a discharge orifice closely adjacent the point of said hook, and tubular coupling means on the shank of said hook adapted to operatively connect said passage to a source of gas whereby said gas may pass through said passage and be discharged at said orifice.

2,594,388
AUTOMATIC PAY STATION
Robert F. Broussard, Houston, Tex., assignor to Duncan Parking Meter Corporation, Chicago, Ill., a corporation of Illinois
Application September 23, 1946, Serial No. 698,678
14 Claims. (Cl. 194—1)



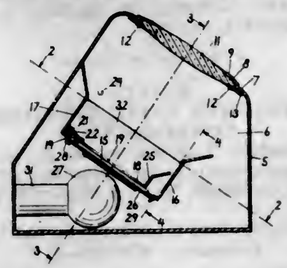
1. A validating pay station machine comprising a motor, means operatively connected with the motor and actuated by the same for severing a coupon from a ticket inserted in the machine by a payer, means for normally holding the motor inoperative including a trip lever actuated by a coin deposited in the machine for releasing the motor for causing the same to operate the coupon severing means, a movable stop arranged to prevent the introduction of a coin into the machine, a member connected with the movable stop and arranged to be actuated by the insertion of a ticket into the machine for actuating said member to move the stop to an inoperative position to permit the introduction of a coin into the machine.

2,594,389
DOUBLE-LOCKOUT INTERCONNECTING SYSTEM
Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 4, 1948, Serial No. 42,354
9 Claims. (Cl. 179—18)



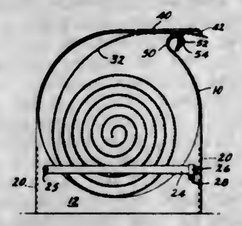
1. An array of discharge tubes of the type including residual gas and having in each tube a pair of main electrodes and a pair of supplementary electrodes, means including circuit closing devices for applying voltage across pairs of supplementary electrodes simultaneously or successively, means including circuit closing means for applying potentials across pairs of main electrodes simultaneously or successively, means for initiating electrical discharges in said tubes as the result of said applications of potentials, lockout means whereby one tube in a column has a discharge initiated therein at a time, and lockout means whereby only one tube in a row has a discharge initiated therein at a time.

2,594,390
DEVICE FOR VIEWING SLIDES
Sydney Brumberger, Lawrence, N. Y.
Application December 26, 1950, Serial No. 202,767
3 Claims. (Cl. 88—1)



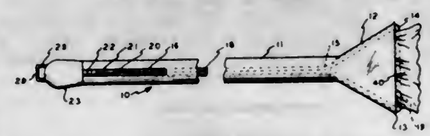
1. An apparatus for viewing pictures, comprising a housing having an opening, a lens affixed to said housing and extending across said opening, a slide-supporting plate affixed to and extending in said housing parallel to said opening, having an angularly bent rim for guiding a slide and having an aperture, a light diffusing sheet attached to said plate and extending across said aperture, a second slide-supporting plate having an aperture smaller than said first mentioned aperture, being hinged to said first mentioned plate along an axis lateral from said apertures and being swingable from a position parallel to said first plate into a position substantially perpendicular thereto, said two apertures being concentric when said swingable plate is in said parallel position, said swingable plate having an angularly bent rim for guiding a slide which is parallel to said first mentioned rim and has a smaller distance from the center of said apertures than the first mentioned rim, and a light source positioned at that side of said sheet which is opposite to said lens.

2,594,391
DISPENSING CABINET FOR ROLLED SHEET MATERIALS
Richard R. Cardall, Salt Lake City, Utah
Application August 15, 1949, Serial No. 110,400
1 Claim. (Cl. 312—39)



The combination of a body member which includes a cylindrical element adapted to enclose at least partially a relatively wide supply roll or a plurality of narrower rolls of resilient sheet material, said body member comprising an upper generally tangential lateral wall extension and a lower reversely bent wall extension, said extensions forming between them a guide channel for said sheet material as it is withdrawn from a supply roll, pivot supporting elements extending from said lower extension, a pivot rod element mounted on said supports and extending substantially parallel with the axis of said cylindrical element for substantially the full length of said guide channel, a series of weighted pawls each mounted for free and independent pivotal movement on said pivot rod element, each of said pawls being arranged to swing by gravity into a position to restrain retractive movement of said sheet material towards its supply roll by gripping it against said upper lateral extension, and cutting means along the outer edge of said upper lateral extension to assist in severing withdrawn sheet material.

2,594,392
MOP HOLDER HAVING A HOLLOW HANDLE AND A RETRACTABLE JAW
Samuel J. Care, Forty-Fort, and Andrew Shara, Kingston, Pa.
Application March 29, 1950, Serial No. 152,698
6 Claims. (Cl. 15—153)

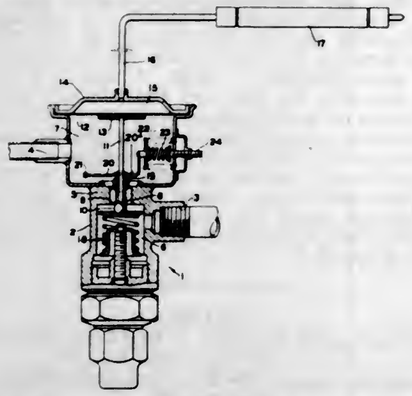


1. A mop comprising a hollow metal tube providing a mop handle, said tube being closed at one end but having a radial slot therein connecting to a short longitudinal slot, the other end of said hollow metal tube being flattened and enlarged to substantially triangular outline open at its end and provided with flaring lips, a triangular mophead holder having a transverse aperture arranged to extend from and be retracted into said open triangular end of said mop handle, means extending from the apex of said triangular mophead holder and through said hollow metal tube to a point adjacent said longitudinal slot therein, a threaded stud pivotally secured to the end of said means adjacent said longitudinal slot, and a knob adjustably threaded to said threaded stud externally of said hollow tube and having a diameter at least equal to the diameter of said hollow tube.

2,594,393
PRESSURE LIMITING MEANS FOR LIQUID CHARGED REFRIGERATION EXPANSION VALVES
Franklyn Y. Carter, Dearborn, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application November 9, 1948, Serial No. 59,134
15 Claims. (Cl. 236—92)

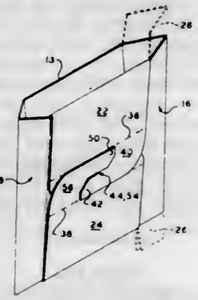
10. A liquid charged refrigeration expansion valve, comprising a valve casing having an inlet chamber and an inlet, and an outlet chamber and an outlet; means including a passageway interconnecting said inlet and outlet chambers, a first means including a movable valve member operable to open and to close said passageway to control flow of refrigerant through said valve, a pressure responsive diaphragm responsive on one side to pressure on the outlet side of the valve and operatively connected to said valve member

for moving the same, a thermostatic "liquid charged" power element for supplying pressure to the other side of said diaphragm to move the same in response to temperature changes, a second means to control the opening and closing of said passageway to control flow of refrigerant



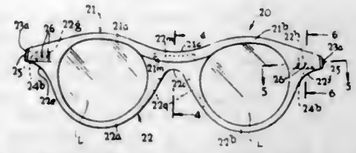
therethrough independently of movement of said valve member, and means responsive to pressure in said outlet chamber and operable upon occurrence of a predetermined pressure therein to actuate said second flow controlling means to maintain said passageway closed independently of valve member movement.

2,594,394
CARTON
Robert C. Casselman, Auburndale, and David R. Dominie, Lynn, Mass., assignors to Polaroid Corporation, Cambridge, Mass., a corporation of Delaware
Application October 9, 1948, Serial No. 53,654
9 Claims. (Cl. 229—38)



1. A collapsible carton comprising a pair of walls, one of said walls being a front wall and the other of said walls being a rear wall, two end walls, said front, rear and end walls being joined together, scores at the junctions between said walls, a top closure including a portion forming the carton top wall, a bottom closure including a portion forming the carton bottom wall, said bottom closure constituting an extension of one of said pair of walls and said top closure constituting an extension of the other of said pair of walls, scores between said closures and their associated walls, top and bottom flaps constituting extensions of said end walls, a score running lengthwise of each said end wall along the median line thereof from the top to the bottom of said end wall, a top interlocking portion associated with said top closure and a bottom interlocking portion associated with said bottom closure, said bottom interlocking portion being complementary to said top interlocking portion, said top and bottom interlocking portions being adapted to interlock to connect said closures together when the ends of said closures are folded into alignment along the outer surface of one of said pair of walls, said bottom closure being foldable from its associated wall under and along the outer surface of the wall associated with the top closure when said carton is in flattened condition, said interlocking portions being adapted to hold said top and bottom closures in said folded relationship, said bottom closure, when said interlocking portions are interlocked, maintaining the bottoms of said pair of walls substantially together to form an open-mouthed envelope.

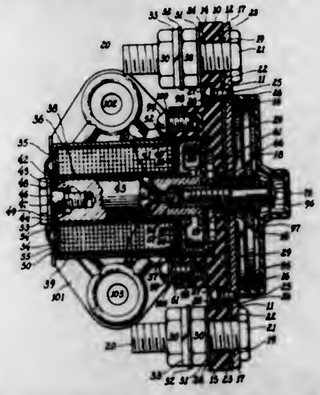
2,594,395
TWO-PIECE EYEGLASS FRAME CONSTRUCTION
Charles Castelli, Union City, N. J., assignor, by mesne assignments, to Columbia Protektosite Co. Inc., Carstadt, N. J., a corporation of Delaware
Application June 6, 1950, Serial No. 166,311
3 Claims. (Cl. 88—41)



2. An eyeglass frame construction, a one piece double lens carrier, a one-piece brow bar assembled to extend over said carrier, a tongue and groove interconnection for retaining opposite ends of said carrier and brow bar in alignment, hinge parts mounted against said brow bar ends above said carrier opposite ends, and anchoring rivets securing each of said hinge parts in mounted position and extending through said tongue and groove interconnection.

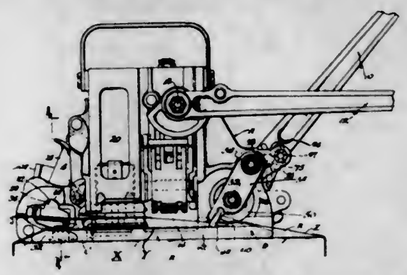
2,594,396
CONTACT MOUNTING
Allan P. Charbonneau and Frank J. Russell, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Original application December 15, 1944, Serial No. 568,316. Divided and this application March 9, 1951, Serial No. 214,772
7 Claims. (Cl. 200—166)

4. In an electromagnetic contactor, a bridging contactor support comprising a metal pin, said pin having an annular groove adjacent one end thereof, a horseshoe-shaped washer insertable into said groove, a cup washer positioned upon said pin and having its flange overlapping the edge of said first mentioned washer to normally prevent displacement of the latter from said groove, a bridging contactor also positioned on said pin, said bridging contactor having a perforated insulating member molded in situ thereon and surrounding said pin, a coiled compression spring interposed between said cup washer and one surface of said insulating member, a second perforated insulating member positioned upon and surrounding said pin and against which the other surface of said first mentioned insulating member is adapted to bear, the engaging surfaces of said insulating members being respectively of convex and concave form to provide for self-adjustment of said bridging contactor relatively to said pin and with respect to associated stationary contacts when in use,



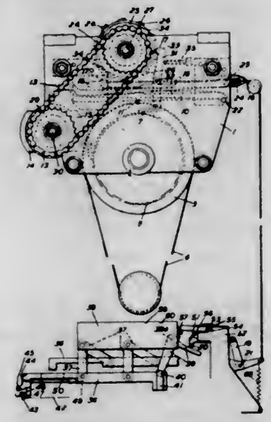
and a second coiled compression spring associated with said second insulating member to insure at least a predetermined degree of frictional engagement between said convex and concave surfaces.

2,594,397
STRAPPING MACHINE
William C. Childress, Oak Park, and Arvid I. Ericsson, Chicago, Ill., assignors to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware
Application July 21, 1950, Serial No. 175,166
6 Claims. (Cl. 254—51)



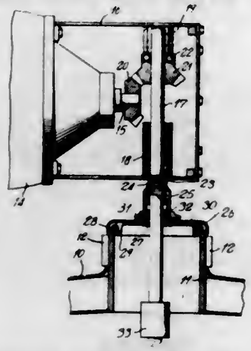
1. In a bundle-binding tool of the type having a fixed gripper for anchoring one end of a bundle encircling strap loop and a feed wheel for engaging and moving the other end of the loop to tension the loop, the combination of a frame having a base for resting against a bundle being bound and providing a pair of strap supporting seats, one in line with the fixed gripper and the other in line with the feed wheel, a pair of links rotatably carrying the feed wheel between them, a pivot attaching the feed wheel links to the frame so that the feed wheel may be bodily moved toward and retracted from the strap supporting seat in line therewith, a spring biasing the links to move the feed wheel toward the strap supporting seat in line therewith, a tensioning handle attached to the frame by the pivot attaching thereto the feed wheel carrying links, a pawl connection between the tensioning handle and the feed wheel whereby oscillation of the tensioning handle rotates the feed wheel in one direction only, an operative connection between the tensioning handle and one of the feed wheel carrying links which enables the handle to rock the links about their common pivot and thereby retract the feed wheel bodily away from the strap supporting seat in line therewith, a latch for holding the links in feed wheel retracted position, a shaft for pivotally attaching the fixed gripper to the frame so that it may be moved toward and retracted from the strap supporting seat in line therewith, a spring biasing the fixed gripper toward the seat in line therewith, an arm fixed to the shaft carrying the fixed gripper, a fixed gripper actuating and holding lever pivoted to one of the feed wheel carrying links, a pair of interlocking lugs, one carried by the actuating and holding lever and the other by the arm on the fixed gripper shaft, and a guide for causing the lug on the actuating and holding lever to engage the lug on the arm of the fixed gripper shaft when the tension handle is moved to retract the feed wheel so that the feed wheel and fixed gripper are simultaneously retracted to open the tool for reception of strap, the holding lever being manually movable to disengage the lugs to enable the fixed gripper to be closed by its biasing spring without releasing the feed wheel.

2,594,398
SELECTING MECHANISM FOR COLOR WEFT INSERTION
Henry J. Cooper, Stockport, England
Application October 11, 1950, Serial No. 189,601
In Great Britain October 31, 1949
5 Claims. (Cl. 139—232)



1. In a selecting mechanism for the presentation of wefts of the correct colours and kinds in sequence for transference in separate pieces and the correct order to shuttles in the supplying of weft to a warp, projectable stops, wires for projecting the stops, oscillatably and slidably supported slide bars connected to the wires for pulling them, lugs on the slide bars, a rotatable cylinder, lugs disposed along a helical line on the cylinder for displacing the first named lugs and therefore sliding the slide bars, levers supporting the slide bars, pins on the levers, alternately operating displaceable members disposed beneath the levers and having pattern holes to accommodate the pins, the said holes being disposed where wefts are not to be selected for presentation for allowing the fall of respective levers and slide bars, and lifting means being provided for lifting the levers clear of the alternately operating members before displacement of the said members.

2,594,399
APPARATUS FOR TREATING LIQUID DAIRY PRODUCTS
Fritz G. Cornell, Jr., Mountain Lakes, N. J., assignor, by mesne assignments, to Chester-Jensen Company, Chester, Pa., a corporation of Pennsylvania
Application December 12, 1946, Serial No. 715,718
5 Claims. (Cl. 259—122)



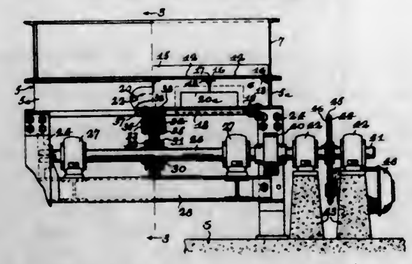
1. In combination with a closed container, a sleeve supported by and extending through a portion of said container, a rotatable shaft extending through said sleeve, a first member of less cross-section than said sleeve surrounding said shaft and capable of movement through said sleeve, a sealing member in contacting relation with said first member and said sleeve and of sufficient cross-section that its exterior diameter exceeds the interior diameter of said sleeve, a second member surrounding said shaft and engaging said first member, said two members having smooth contacting annular surfaces constituting a vacuum and pressure tight seal, a gasket surrounding said shaft and engaging said second member, an externally threaded collar fixed to the shaft, and a nut threaded on the collar for compressing said gasket against said second member.

2,594,401
NUTCRACKER
Herman E. Cox, Norfolk, Va.
Application March 10, 1950, Serial No. 148,770
2 Claims. (Cl. 146—14)



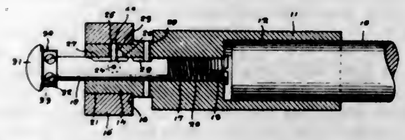
1. A nut cracker comprising a hollow vertical body consisting of side sections and having a head at its upper end formed with a solid forwardly projecting portion constituting a stationary upper jaw, legs extending forwardly from the side sections below said head and constituting transversely spaced nut-supporting members, a fastener passing transversely through said body and holding the sections together, a solid lower jaw under said upper jaw shiftable vertically and having a neck at its rear end extending into the body through a vertically extending slot at the front thereof and having its inner end integral with the upper end of a rack bar extending vertically in the body between guide ribs carried by the side sections of the body, an operating lever for the movable jaw extending into the body through a vertical slot formed in the lower portion of the back thereof, the inner end of said lever being rotatably mounted about said fastener and meshing with the rack bar to shift the movable jaw vertically between said legs towards and away from the stationary jaw.

2,594,400
FLAT SCREEN FOR PULP SCREENING
Ben Cowan and Elijah Cowan, Montreal, Quebec, Canada
Application November 19, 1949, Serial No. 128,316
2 Claims. (Cl. 92—32)



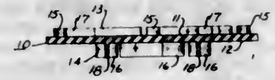
1. In a flat screen of the diaphragm type, a frame structure forming the marginal walls of a diaphragm chamber, a rigid movable diaphragm forming the bottom wall of said chamber and provided with a continuous outwardly projecting sealing tongue extending around and formed integral with the marginal edge of the diaphragm, said sealing tongue presenting continuous upper and lower horizontal sealing surfaces and being separated from surrounding wall portions of said frame by an intervening gap, upper and lower resiliently compressible sealing members bridging said gap and extending continuously around the marginal edge of the diaphragm in sealing and supporting engagement with the upper and lower sealing surfaces of said tongue, and retaining members between which said sealing members are arranged and supported in sealing contact with the marginal walls of the diaphragm chamber, said retaining members being secured to and supported by said frame structure.

2,594,402
TOOLHOLDER
Elijah C. Crawford, Chicago, Ill.
Application August 30, 1949, Serial No. 113,212
4 Claims. (Cl. 287—53)



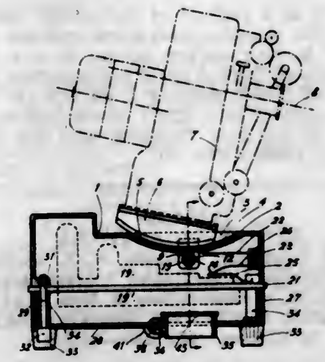
1. In a holder for clamping a tool to the end of a shaft, said tool having a groove arranged centrally therein, a body member provided with a socket for receiving therein the end of the shaft, means for securing said body member to said shaft, a support member projecting from an end of said body member and being of a smaller diameter than the latter, an annular shoulder on said support member of smaller diameter than said body member but of larger diameter than said support member, there being a bore extending through said support member and communicating with said socket, a plunger slidably arranged in said bore, a pin having one end pivotally connected to said plunger and its other end mounted for movement into and out of engagement with the groove in said tool, resilient means abutting said plunger for urging said pin into engagement with the groove in said tool, and a second pin in said shoulder engaging said plunger to limit the movement thereof.

2,594,403
SERVING UTENSIL
Inez C. Crimmins, Minneapolis, Minn.
Application November 23, 1946, Serial No. 712,034
2 Claims. (Cl. 65—15)



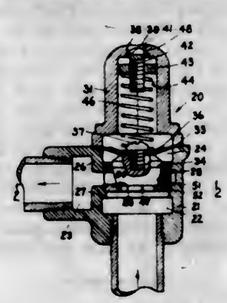
1. A reversible serving utensil consisting of a flat plate having first and second oppositely disposed surfaces each adapted to be capable of receiving articles of food, a first set of raised candle sticks circumferentially mounted on a marginal portion of said first surface, and a second set of raised candle sticks circumferentially mounted on an intermediate portion of said second surface, said first set of candle sticks being adapted to support said serving utensil when the second surface is in a position to receive articles of food, and said second set of candle sticks being adapted to support said serving utensil when said first surface is in a position to receive articles of food.

2,594,404
SUPPORT FOR MOTION-PICTURE APPARATUS AND THE LIKE
Andre Victor Leon Clement Debrie, Paris, France
Application February 23, 1950, Serial No. 145,644
In France April 7, 1949
13 Claims. Cl. 95—86)



1. A supporting structure for electrically operated motion picture apparatus and the like which comprises, in combination, an arcuately shaped cradle mounted on a hollow supporting base and adapted to support a matingly shaped shoe sole rigid with an apparatus to be supported, said shoe sole being slidably displaceable on said cradle, means for locking said shoe sole on said cradle in a position corresponding to the desired inclination of the optical axis of the apparatus, an insulating layer constituting said shoe sole, elongated, spaced, parallel conductive bars embedded in said layer, said bars being, on the one hand, connected within the shoe with the various electric wires leading from said electrically operated motion picture apparatus and, on the other hand, slidably contacted by resilient contacts located in said supporting base and projecting though an aperture formed in the bottom wall of said cradle, said arrangement of said conductive bars and contacts being such as to permit the shoe sole, and hence the apparatus itself, to be removed from the cradle and replaced by another apparatus, without disassembling and reassembling the connections between the apparatus and the supporting base, the latter including two superimposed, detachably interconnected, hollow components, a detachable plate located between said components for supporting various electrical elements housed in said two components and slidably engaging said conductive bars, means for assembling and disassembling, for revision or repair, said two components and said plate, and means for rapidly mounting the supporting base on a standard head.

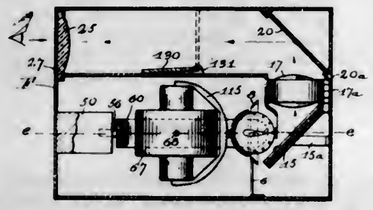
2,594,405
PRESSURE MAINTAINING DEVICE
Elmer M. Deters, Davenport, Iowa, assignor to Red Jacket Manufacturing Co., Davenport, Iowa, a corporation of Iowa
Application January 24, 1946, Serial No. 643,077
7 Claims. (Cl. 137—53)



1. A valve of the character described having in combination, a casing having an inlet port, an outlet port, a bonnet opening, a bonnet mounted across the bonnet opening, a lower bridgewall separating the inlet from the outlet ports, an upper bridgewall separating the outlet port from the bonnet opening, a seat member engaging both of said bridgewalls in a fluid tight manner, said seat member having a cylindrical bore and having an aperture surrounded by an annular seat, a valve disk having a cylindrical surface for substantially fluid tight reciprocation within said bore in said seat member and having an end surface engageable with said annular seat in a fluid tight manner, a flexible rubber-like diaphragm having the periphery thereof interposed in a fluid sealing manner between the bonnet and the housing and having a central portion thereof attached to the disk, said casing having a passageway for providing direct and continuous pressure responsive communication between said diaphragm and the inlet port, the bonnet having an opening in the end thereof and a circularly extending surface formed on the interior of the opening, an inwardly extending adjusting screw having a head adapted to abut said circularly extending surface, means associated with said circularly extending surface and said head for resisting relative rota-

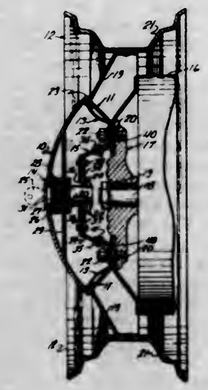
tion therebetween, a loading member threadedly engaged with the adjusting screw and mounted in the bonnet for reciprocatory movement, means acting between the bonnet and the loading member for preventing said loading member from rotating during its reciprocatory movement, a spring member compressibly interposed between the loading member and the diaphragm to resist pressure-induced movement of the diaphragm to a degree determined by the adjustment of said adjusting screw.

2,594,406
ATTITUDE INDICATING UNIT
George C. Draper, Rosemere, Quebec, Canada
Application June 3, 1950, Serial No. 165,915
1 Claim. (Cl. 33—204)



An attitude indicator, comprising, a mounting adapted to be mounted in the craft with its longitudinal and transverse axes parallel to those of the craft, a support mounted for unlimited rotation about said longitudinal axis, a three-dimensional indicator simulating a craft mounted on such support for unlimited rotation about an axis of pitch passing through said longitudinal axis and at right angles thereto, the indicator including a transparent disc on which the facsimile of the craft is mounted along the longitudinal axis, an actuating means for causing the indicator to assume a corresponding attitude in relation to the longitudinal and transverse axes to that of the craft in relation to the horizontal plane, and graduations adjacent to the peripheral edge of the disc.

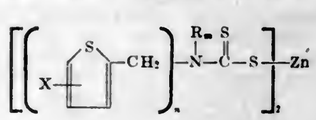
2,594,407
HUBCAP LOCK
Wiley W. Earnest, Beaumont, Tex.
Application March 15, 1949, Serial No. 81,455
1 Claim. (Cl. 70—169)



In combination with a dished annular body having bolt receiving apertures and a cover for one side of said body, a flat bar longitudinally U-shaped extending across the interior of said body and having bolt receiving apertures adjacent its ends, bolts securing said bar to said body, said bar having a lock receiving aperture therein intermediate its ends, a lock barrel secured to said cover and having a key opening exposed at the outer surface of said cover and its inner end spaced from the inner side of said cover, locking dogs slidably carried in said lock barrel adjacent the inner end thereof for key operated projection and retraction laterally of said barrel, the inner end of said lock barrel with said locking dogs being insertable through the lock receiving aperture in said bar and said dogs being projectable at the side of said bar remote from said cover to lock said cover to said body, and anti-friction means carried by said bar adjacent said lock aperture and on the opposite side of said bar from said cover to be engaged by said dogs, said bar having a rounded edge portion surrounding the lock receiving aperture therein and said anti-friction means comprising a flat ring secured to said bar and having its inner edge circumferentially spaced from said rounded edge portion of the bar, and anti-friction balls disposed between the rounded edge portion of said bar and the inner edge of said ring.

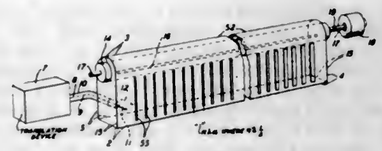
2,594,408
THIOPHENE DERIVATIVES
William S. Emerson and Tracy M. Patrick, Jr., Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 24, 1948, Serial No. 51,104
5 Claims. (Cl. 260—329)

1. A compound having the structural formula:



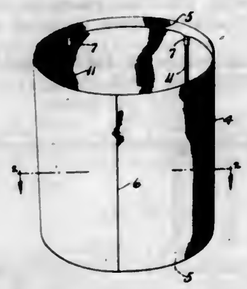
wherein X is a radical of the group consisting of hydrogen, halogen, and alkyl radicals having from one to four carbon atoms, R is a hydrocarbon radical having up to eight carbon atoms, n is a small whole number from one (1) to two (2), inclusive, m is a small whole number from zero (0) to one (1), inclusive, and the sum of n and m is always two (2).

2,594,409
DIRECTIVE ANTENNA
Carl B. H. Feldman, Rumson, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 27, 1943, Serial No. 496,325
11 Claims. (Cl. 250—33.63)



3. In combination, a radio translation device, a wave guide connected thereto and having in one wall a plurality of unit antennas spaced longitudinally, means for impressing on said wave guide a wave of a substantially constant frequency, and independent means for varying the phase velocity characteristic of said guide over a range related to said spacing.

2,594,410
HUNTER'S BLIND
Leo P. Feldpausch, Grand Rapids, Mich.
Application February 14, 1949, Serial No. 76,246
2 Claims. (Cl. 135—5)



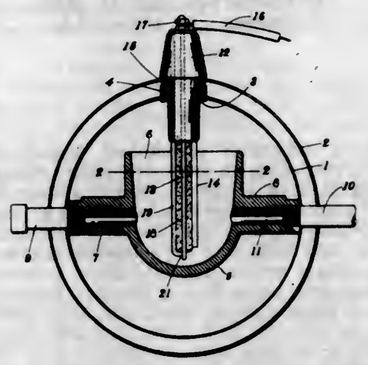
1. A blind comprising, upper and lower spaced resilient rings of metal each parted at one side, said rings being adapted to normally wind into substantially flat spiral form when parted, means for detachably connecting the ends of the respective rings at the parting thereof, a fabric wall permanently connected to and extending between said rings, said fabric wall being parted its full height between said rings and at the parting thereof and its edges being separable at the parting of the rings and a plurality of extensible struts detachably connected with said rings at upper and lower ends of the struts and extensible to separate said rings and tighten the fabric and means for releasably securing said extensible struts in extended position with said fabric tightened.

2,594,411
PROCESS FOR THE PREPARATION OF ALKANE SULFONIC ACIDS
John K. Fincke, Ayer, Mass., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application February 11, 1949, Serial No. 75,982
4 Claims. (Cl. 260—513)

1. A method of preparing alkane sulfonic acids which comprises oxidizing bis(alkylmercapto) methane wherein the alkyl group has from six to eighteen carbon atoms, by means of nitric acid.

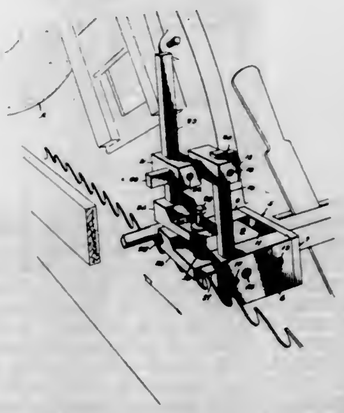
2,594,412
IGNITER FOR OIL BURNERS
Harold L. Finley, Woodhaven, N. Y., assignor, by mesne assignments, to General Bronze Corporation, Garden City, N. Y., a corporation of New York
Application January 29, 1946, Serial No. 644,108
6 Claims. (Cl. 175—115)

1. In an oil burner igniter an insulator body, a plurality of elongated electrodes carried by and extending from said body in spaced relationship to each other to form a cage and a porous wick member mounted within said cage and longitudinally substantially coextensive with said electrodes, one of said electrodes including



portions extending along the length of said porous wick member on opposite sides thereof and around an end thereof.

2,594,413
SAW-TOOTH CONDITIONING DEVICE
Vernard P. Fisher and Louis H. Poole, Tuscaloosa, Ala.
Application November 3, 1950, Serial No. 193,964
1 Claim. (Cl. 76—47)



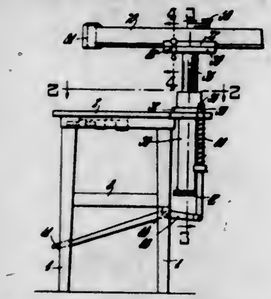
A band saw tooth dressing device comprising a body portion, means for securing the body portion to the frame of a band saw tooth grinding machine, a horizontally adjustable file block mounted on the body portion, a file section carried by said file block adapted to contact the side faces of saw teeth sharpened by the machine, for dressing the teeth, a plurality of vertical and horizontal posts mounted on the body portion, adjustable blocks on said posts, a bar rigidly connected with one of said posts, disposed in spaced relation with the teeth of the saw blade, a pivoted file block connected with the lower end of the post supporting the bar, yieldable means between the bar and pivoted file block for urging the pivoted file block towards the teeth, and a file piece mounted on the pivoted file block for contact with the cutting edges of the teeth for dressing the cutting edges of the teeth.

2,594,414
HEAD FOR MAGNETIC RECORDERS
Charles F. E. Garreau, Paris, France
Application February 2, 1949, Serial No. 74,073
In France February 10, 1948
5 Claims. (Cl. 179—100.2)



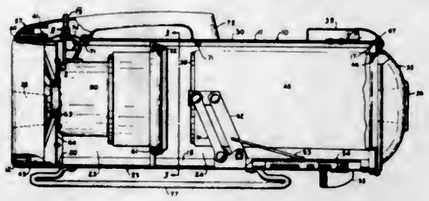
1. In a magnetic transducer apparatus for laterally recording on or reproducing sounds from a movable thin magnetic strip, a transducing head including an electrical coil and a magnetic core for magnetically coupling said thin magnetic strip to said coil, said core having tips bridged with a single projecting pole-piece formed by a thin magnetic plate kept in position between two plates of nonmagnetic substance, said pole-piece being secured to said tips and arranged and adapted to be kept with its thickness in contact with said strip in a direction at right angles to the direction of movement of said strip.

2,594,415
MANUALLY OPERABLE MACHINE TOOL
Alfred E. Gaudreau, Springfield, Mass.
Application July 27, 1949, Serial No. 107,020
1 Claim. (Cl. 10—129)



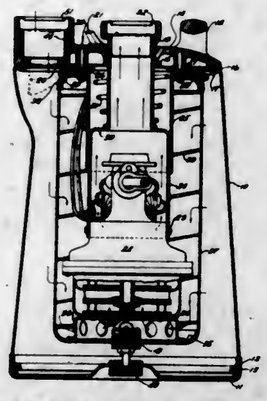
A machine for locating a hand rotated tool relative to a work piece comprising in combination, a support having an upper horizontal work piece supporting face, an elongated tubular housing having an upper portion secured to a side of said support and extending vertically downwardly therefrom, an elongated tubular spindle rotatable and reciprocable in said housing having an upper portion extending upwardly from said support and housing and having an upper plate closing the upper end thereof, an elongated stem rotatably and non-reciprocably mounted in said plate extending downwardly into said tubular spindle and having a threaded lower end portion, an internally threaded sleeve engaging the lower end portion of said stem extending upwardly within said housing from the lower end thereof having a flange on the lower end thereof closing the lower end of the housing and secured thereto, the upper end of said housing provided with clamping means to releasably clamp and hold said tubular spindle against reciprocation and rotation, said upper plate having guide means for a beam reciprocable horizontally, a beam reciprocable back and forth in said guide means in parallelism with the work supporting face of the support provided with a longitudinal slot and having a vertically disposed bore for rotatably receiving a hand operated tool in an end thereof, an upper end of said stem extending upwardly through the slot of said beam provided with manually engageable means for rotating the same, means for reciprocating said beam, and locking means for locking said beam against reciprocation, all adapted and arranged whereby a tool carried by said beam may be moved up and down relative to said support and swing in opposite directions or moved back and forth relative thereto.

2,594,416
SUCTION CLEANER
Dale C. Gerber, North Canton, and Frank A. Martin, Akron, Ohio, and Eugene L. Snyder, St. Petersburg, Fla., assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 10, 1947, Serial No. 773,194
8 Claims. (Cl. 183—37)



1. In a suction cleaner casing, a skeleton frame having a plurality of spaced side members extending longitudinally of the casing, an end frame member attached to opposite end portions of said side members to space and support the latter, an intermediate transverse member between said end frame members and attached to said side frame members to form a motor chamber and dust chamber, a cover encircling said frame members to enclose the latter, and an end cover for each end of said frame to complete the cleaner casing.

2,594,417
SUCTION CLEANER CONSTRUCTION
Dale C. Gerber, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 15, 1948, Serial No. 65,423
19 Claims. (Cl. 183—58)



1. The combination with a suction cleaner casing having a dirt filter mounted therein between an air inlet opening and an air outlet opening, of a motor-fan unit, means for reciprocally supporting said unit within said casing, spring means normally biasing said unit against the unsupported central portion of said filter so as normally to hold the walls thereof taut, means extending from said unit to a point outside said casing and operable to move said unit to tension said spring and slackening said filter walls whereby, upon release, said spring returns said unit to its normal position abruptly to tension said filter and dislodge dirt therefrom.

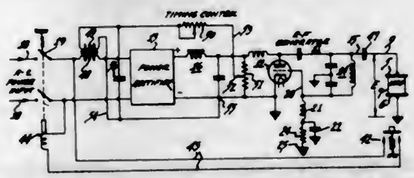
2,594,418
SALICYLIC ACID SALT OF 8-(5'-ISOPROPYLAMINOAMYLAMINO)-6-METHOXYQUINOLINE
Charles F. Geschickter, Rock Creek Hills, and Martin I. Rubin, Silver Spring, Md., assignors to Geschickter Fund for Medical Research, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 30, 1949, Serial No. 118,997
1 Claim. (Cl. 260—286)

A new compound consisting of the salicyclic acid salt of 8-(5'-isopropylaminoamylamino)-6-methoxyquinoline.

2,594,419
DI-SALICYLATE OF 7-CHLORO-4-(4'-DIETHYLAMINO-1'-METHYLBUTYLAMINO) QUINOLINE
Charles F. Geschickter, Rock Creek Hills, and Martin I. Rubin, Silver Spring, Md., assignors to Geschickter Fund for Medical Research, Inc., New York, N. Y., a corporation of New York
No Drawing. Application September 30, 1949, Serial No. 118,998
1 Claim. (Cl. 260—286)

A new compound consisting of the di-salicylate of 7-chloro-4-(4'-diethylamino-1'-methylbutylamino) quinoline.

2,594,420
HIGH-FREQUENCY DIELECTRIC HEATING SYSTEM
Henderson C. Gillespie, Moorestown, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 29, 1948, Serial No. 35,900
1 Claim. (Cl. 219—47)

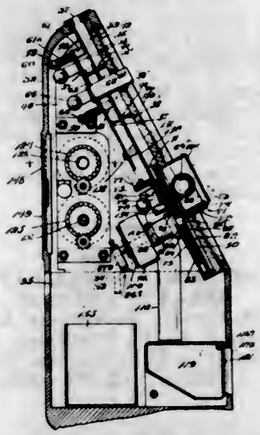


In a high frequency dielectric heating system, the combination with a high frequency oscillation generator having an output circuit, dielectric heating electrodes connected with said output circuit, and means for controlling the application of operating voltage to said electrodes from said generator comprising a power rectifier for energizing said generator, a saturable reactor in circuit with said power rectifier for controlling the application of operating current thereto, a D. C. saturating winding on said reactor, and a variable resistance-capacitance network including a winding connected with the D. C. output side of said power rectifier and responsive to the operating voltage applied to said generator, for gradually increasing the output voltage of said generator on said electrodes.

2,594,421
DETERGENT COMPOSITION
Earl W. Gluesenkamp, Centerville, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application February 26, 1948, Serial No. 11,319
2 Claims. (Cl. 252—140)

1. A detergent composition comprising the condensation product of oleic nitrile with ethylene oxide, the said condensation product containing at least 6, but not more than 15, moles of ethylene oxide per mole of said oleic nitrile, 15 to 30 parts by weight; tetrasodium pyrophosphate, 20 to 50 parts by weight; and the balance to make 100 parts by weight of a mixture of starch and carboxy methyl cellulose.

2,594,422
FARE REGISTER HAVING PHOTOELECTRIC FARE SENSING MECHANISM
Alexander M. Gordon, Providence, R. I., assignor to Max L. Grant, Providence, R. I.
Application March 23, 1949, Serial No. 83,066
4 Claims. (Cl. 235—32)

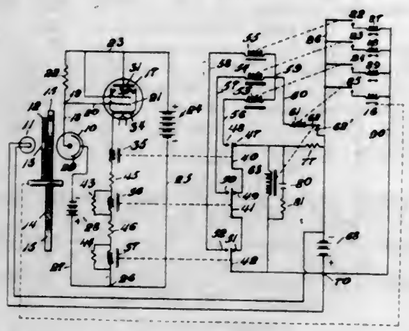


1. A fare registering machine comprising a casing, means in said casing operable for registering a multiple fare deposited therein, an electric circuit for controlling said means, said casing having an aperture therein, a photocell in said circuit positioned on one side of said aperture, an exciter lamp positioned on the other side of said aperture whereby the rays of said exciter lamp will pass through said aperture and fall on said photocell, a carrier for moving a fare in register with said aperture comprising a plate having generally V-shape notches in its edge providing pockets for receiving and supporting a fare at varying distances in said V pockets in accordance with the diameter thereof to vary the effective light transmitting area of said aperture according to the size of the fare in register therewith to said photocell, a plurality of electronic valves responsive to various degrees of conduction of said photocell, each valve operating a counting solenoid.

2,594,423
ELECTRIC CIRCUIT FOR CONTROLLING FARE REGISTERING MACHINES
Alexander M. Gordon, Providence, R. I., assignor to Max L. Grant, Providence, R. I.
Application July 21, 1949, Serial No. 106,074
3 Claims. (Cl. 175—321)

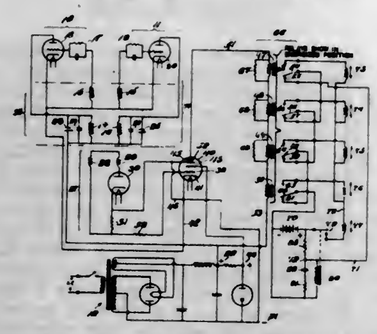
1. In a sorting machine, a vacuum tube having an anode, control grid and cathode, means im-

posing an energizing potential on said anode, means connected to said grid to normally maintain the tube at plate current cut-off, a plurality of pilot relays, the windings of said relays being connected in the space current path of said tube and each being responsive to a different current value, each of said pilot relays controlling a second relay, the contacts of said pilot re-



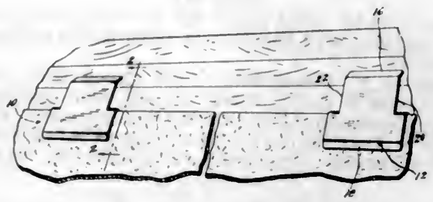
lays being in circuit with a source of potential and the windings of said second relays and each comprising one set of make-break contacts serially arranged so that only one of said second relays is energized irrespective of the number of energized pilot relays and a time delay relay also in circuit with the windings of said second relays to delay their action until the pilot relays have assumed a static condition.

2,594,424
COIN CONTROLLED OSCILLATOR FOR RELAY OPERATION
Alexander M. Gordon, Providence, R. I., assignor to Max L. Grant, Providence, R. I.
Application July 21, 1949, Serial No. 106,075
3 Claims. (Cl. 175—320)



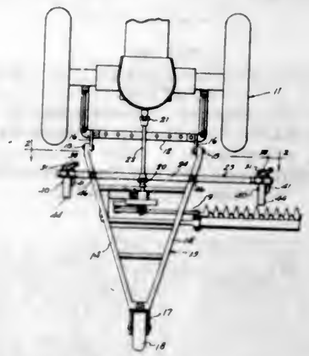
1. In a sorting device, two oscillators each having an output circuit, a rectifying device connected to said output circuits, a load resistor connected to the output of said rectifying device, means connected to said resistor responsive to changes in current therein, said means comprising a plurality of pilot relays each being responsive to a different current value, each of said pilot relays controlling a second relay, the contacts of said pilot relays being in circuit with a source of potential and the windings of said second relays and each comprising one set of make-break contacts serially arranged so that only one of said second relays is energized irrespective of the number of energized pilot relays and a time delay relay also in circuit with the windings of said second relays to delay the action of said second relays until the pilot relays have assumed a static condition.

2,594,425
REMOVABLE RUNWAY
Hymen Greenberg, Chicago, Ill.
Application January 30, 1948, Serial No. 5,302
2 Claims. (Cl. 16—1)



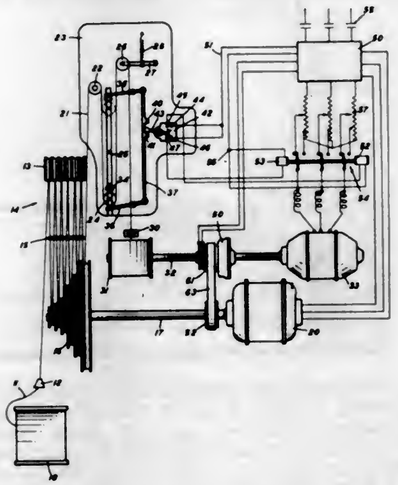
1. A removable edge protector for rugs or similar articles comprising a sheet metal plate member having the leading and trailing marginal edges thereof inclined downwardly at a gradual angle out of the plane of said plate member, gripping finger struck out from said plate member and reversely bent under said plate member in the direction of the trailing edge thereof, said fingers and said plate adapted to engage the marginal edge of a rug or similar article.

2,594,426
DEVICE FOR HANDLING MOWERS
Joseph Grenda, Coldbrook, N. Y.
Application August 11, 1950, Serial No. 178,877
3 Claims. (Cl. 280—44)



1. A mower-elevating device comprising an elongated main bar member adapted to be secured at its intermediate portion transversely to a mower frame, respective smaller bar members secured to the main bar member below and vertically spaced from the end portions of said main bar member, respective vertical sleeve members at the end portions of said main bar member, means rigidly securing each sleeve member to a smaller bar member and to the end portion of the main bar member above said smaller bar member, respective casters at said end portions of the main bar member, the top portion of each caster being solid and being slidably and rotatably received in a sleeve member, and respective crank rods threaded through the top portions of the sleeve members and directly abutting the top portions of the casters received therein.

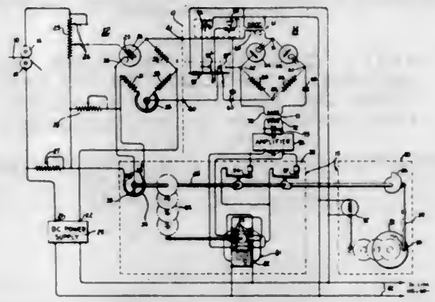
2,594,427
METHOD AND APPARATUS FOR UNIFORMLY TENSIONING AN ADVANCING STRAND
Carl O. Haase, Baltimore, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application May 22, 1947, Serial No. 749,744
9 Claims. (Cl. 242—45)



1. The method of maintaining uniform tension on a strand advancing from a constant speed strand-working apparatus to a strand takeup apparatus, which comprises maintaining a variable supply of strand between the strand-working apparatus and the takeup apparatus, applying a predetermined fixed tension on the portion of the strand in the variable supply, applying a torque to the strand takeup apparatus sufficient to reduce the variable strand supply to a predetermined minimum limit against the action of the fixed tension on the strand, then applying a torque to the takeup apparatus of such value that the fixed tension on the strand overcomes said torque and increases the variable strand supply to a predetermined maximum limit, and alternately changing the torque applied to the takeup apparatus from one of said values to the other of said values to maintain the variable strand supply within said predetermined limits so that only the fixed tension is applied to the strand throughout the takeup operation from an empty reel to a full reel.

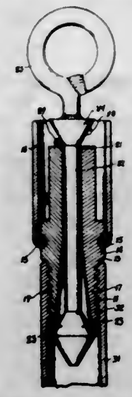
2,594,428
MEASURING SYSTEM
Donald L. Hall, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application September 26, 1946, Serial No. 699,540
8 Claims. (Cl. 346—31)

8. In a device for recording a condition to be controlled and for use with adjustable means for maintaining said condition, a normally balanced electrical circuit including means producing a voltage in accordance with the condition, said circuit also including follow-up rebalancing means for neutralizing the effect of a voltage change in said circuit brought about by a change in the condition, a timed recorder actuated by said circuit for recording said condition, the movable element in said recorder being mechanically coupled to said follow-up means, and means operated as an incident to the shutting down of said condition maintaining means for greatly unbalancing said electrical



circuit thereby to drive the recorder to an extreme position and to positively indicate the interval during which shutdown exists.

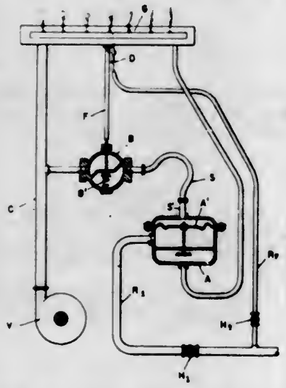
2,594,429
PIPE-LIFTING DEVICE
Ernest Jack Handley, Tulsa, Okla., assignor to Century Geophysical Corporation, a corporation of Delaware
Application October 17, 1949, Serial No. 121,774
7 Claims. (Cl. 294—96)



7. A pipe lifting device, comprising, a generally tubular body composed of circularly arranged complementary arcuate segments, an integral annular enlargement on the exterior of said body intermediate the ends thereof engageable with the upper end of a pipe into which said body is inserted to limit the extent of insertion therein of said body, the portions of said segments below and immediately adjacent said enlargement being externally threaded to mate with internal threads in said pipe end, a circular recess in the outer periphery of said enlargement, a tubular housing concentrically enclosing the upper end of said body, a circular pivot member mounted on the lower end of said housing and extending circumferentially into said recess whereby to rockably support said segments intermediate their upper ends, a stem movable axially through the bore of said body, oppositely tapered conical expander elements mounted on the opposite ends of said stem movable into and out of expansive engagement with the opposite ends of said body in accordance with relative axial movement between said stem and said body, and locking means removably disposed between said housing and said stem and said arcuate seg-

ments to selectively maintain said arcuate segments in expanded or contracted position relative to said expander means.

2,594,430
SAFETY CUTOFF SYSTEM FOR GAS BURNERS RESPONSIVE TO AIR PRESSURE AND THERMOSTATIC CONTROL
Hans Gunner Viggo Hansen, Copenhagen, Denmark
Application December 7, 1946, Serial No. 714,869
In Denmark June 15, 1946
1 Claim. (Cl. 158—141)

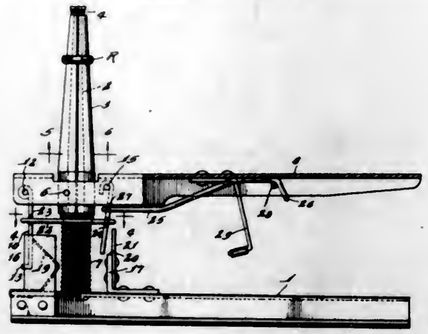


In a device for controlling the supply of combustible gas to a burner by thermostatically-controlled air pressure, the combination of a conduit adapted to lead to a burner for supplying gas under super-atmospheric pressure; a valve in said conduit; means including a flexible membrane subjected on one side to said gas pressure in said conduit and on which said valve is mounted; means forming a chamber sealed from said conduit by said membrane; a second conduit leading to said chamber; means for supplying air under pressure superior to said gas pressure to the burner for combustion, means for diverting a portion of said air to said second conduit to flex said membrane to open said valve; a second valve in said second conduit biased to close said second conduit; means to supply a pilot flame for the burner; and a thermostatic element coacting with said second biased valve and disposed adjacent said flame-supplying means, expansible by heat from said flame to open said second biased valve.

2,594,431
DETERGENT COMPOSITIONS
Jay C. Harris and Milton Kosmin, Dayton Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application April 1, 1950, Serial No. 153,492
5 Claims. (Cl. 252—140)

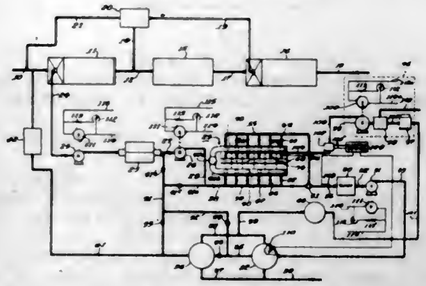
1. A detergent composition consisting in parts by weight of from 15 to 30 parts of the condensation product of abietic acid with ethylene oxide, said condensation product containing at least 0.5, but less than 2.3, parts of condensed ethylene oxide per part of abietic acid, from 20 to 50 parts, anhydrous basis, of a phosphate salt selected from the group consisting of tetrasodium pyrophosphate, sodium tripolyphosphate, trisodium phosphate and sodium hexametaphosphate and mixtures thereof, and the balance to make 100 parts of a carbohydrate material selected from the group consisting of starch and carboxymethylcellulose and mixtures thereof.

2,594,432
TOOL FOR STRETCHING FINGER RINGS
Earle G. Henry, Wilmette, Ill.
Application February 17, 1948, Serial No. 8,979
6 Claims. (Cl. 29—8)



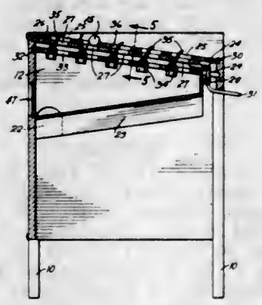
1. The combination with a finger ring stretcher comprising a base, a device wherein an upright longitudinally divided tapered arbor expands when moved down and contracts when moved up, a spring tending constantly to hold the arbor up, and a lever pivotally connected to the lower end of the arbor to move the same up and down: of a pair of fulcrum elements hinged to the lever in spaced relation lengthwise of the latter on opposite sides of the pivotal connection between the lever and the arbor, shoulders on the base, one for each fulcrum element, for cooperation with such elements, and means selectively to shift the fulcrum elements to bring either into operative relation to the corresponding shoulder while the other is held in an inoperative position; whereby movement of the lever in one direction causes the arbor to move in either direction depending on which fulcrum element is operative at the time.

2,594,433
SEWAGE TREATMENT
Frederic O. Hess, Marcus B. Tark, and Edwin R. Schofield, Philadelphia, Pa., assignors to Selas Corporation of America, Philadelphia, Pa., a corporation of Pennsylvania
Application June 20, 1946, Serial No. 678,096
9 Claims. (Cl. 210—2)



1. Apparatus for treating sludge comprising structure providing a substantially closed horizontally extending channel having openings at opposite ends thereof for passing sludge therethrough, a substantially closed vessel connected to receive sludge from the channel, digestion tank means, means including a pump for delivering sludge from the vessel to the digestion tank means, variable speed driving means for the pump, a burner mounted to discharge high temperature products of combustion beneath the liquid surface level of the sludge in the channel, adjustable weir means associated with the channel for regulating the liquid surface level of the sludge in the channel and from which heated sludge overflows by gravity into the vessel, means for withdrawing the gaseous heating medium from the space of the channel above the sludge, means for venting from the vapor space of the vessel gaseous heating medium entrained in the heated sludge passing from the channel, and means for returning supernatant liquid from the digestion tank means to the channel.

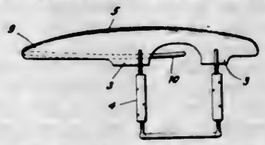
2,594,434
BINGO GAME APPARATUS
James S. Hofsetz, Denver, Colo.
Application May 2, 1949, Serial No. 90,933
5 Claims. (Cl. 200—5)



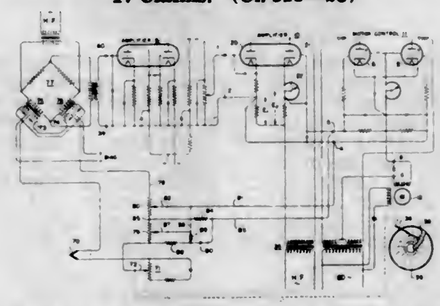
2. Electric switching means for a game apparatus of the type having a substantially horizontal rack board provided with a plurality of ball passages extending therethrough and having a shifting plate slidably positioned below said rack board and provided with a similar number of corresponding passages, comprising a switch board positioned below said shifting plate and provided with openings corresponding to the passages in said rack board; a plurality of toggle switches mounted on said switch board, there being one switch for each opening therein; a switch-operating handle extending upwardly from each toggle switch through both said rack board and said shifting plate so as to be operable from above the former, the openings in said shifting plate being so arranged in relation to said switch handles that the latter will be forced to the "off" position when the openings in the shifting plate are shifted into alignment with the passages in the rack board.

2,594,435
CHIN REST FOR BOW INSTRUMENTS
Henric V. Hogne, Stockholm, Sweden
Application March 16, 1948, Serial No. 15,151
In Sweden March 20, 1947
3 Claims. (Cl. 84—279)

1. The combination with a stringed instrument having a tail piece laterally bowed intermediate its ends, of a chin rest having an engagement surface for engagement by the chin of a player, said surface including a portion extending over the tail piece adjacent to the edge of the instrument and a portion extending into the recess formed by said laterally bowed tail piece, the portion of said surface situated closest to the face of the instrument being located directly above the longitudinal center line of the instrument and the central region of the surface lying along a line substantially at right angles to said center line declining gradually toward said portion.



2,594,436
CONTROL SYSTEM
Anthony J. Hornfeck, Lyndhurst, and Howard T. Hoffman, Cleveland, Ohio, assignors to Bailey Meter Company, a corporation of Delaware
Application October 8, 1948, Serial No. 53,448
17 Claims. (Cl. 318—28)

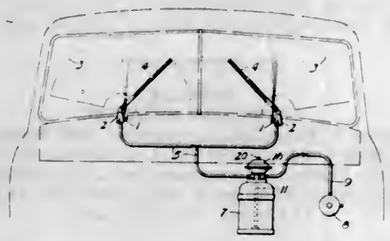


1. A system for measuring the value of a variable comprising in combination, means actuated by said variable for establishing an electrical signal changeable in magnitude and relative direction representative of the value of said variable, a thermionic tube having an anode, cathode and grid, an impedance, a source of alternating current energizing a circuit comprising said anode, cathode and impedance, means applying said signal to the said grid-cathode to control the potential across said impedance, a source of potential on the order of that in said impedance, means to adjust said second potential to a desired value of that in the impedance when the said signal is zero, an output circuit combining said potentials in opposition to produce a D.-C. potential of reversing polarity, a pair of thyratrons having their anodes energized from opposite ends of a center-tapped secondary, a two-phase motor having a winding energized by alternating current and a second winding connected between the center tap and the cathodes of said thyratrons, a cathode resistor biasing said thyratrons to an intermediate output at zero control potential, means connecting the terminals of said output circuit respectively to the grids of said thyratrons to control the preponderance of output thereof, and an indicator actuated by said motor for movement over a scale.

2,594,437
WINDSHIELD CLEANING APPARATUS
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application February 2, 1948, Serial No. 5,780
2 Claims. (Cl. 299—58)

1. A window washer comprising a jet, an air-tight liquid containing reservoir in open commu-

nication therewith for fluid flow to the jet, a source of air pressure in the form of a rotary compressor acting to supply a steady flow of air under a uniform pressure, means operable to connect the source to the reservoir for displacing liquid therefrom and through the jet, a reserve chamber comprising a yieldable wall backed by a spring to normally position the wall to close off the chamber, said wall yielding to the liquid pressure within the connection between said jet and said reservoir, said chamber joined by a



branch passage to the connection between the jet and reservoir to momentarily receive liquid in excess of the jet capacity simultaneously with the emission of the liquid spray, said yieldable wall having a relatively larger area of displacement than the branch passage to expel the excess liquid in continuing the stream issuing from the jet after the first means becomes inoperative, and an outlet check valve for the reservoir interposed in the connection between the reservoir and the branch passage.

2,594,438
SLEEPING BAG
Warren W. Howe, Longview, Wash.
Application December 27, 1948, Serial No. 67,510
1 Claim. (Cl. 5—343)

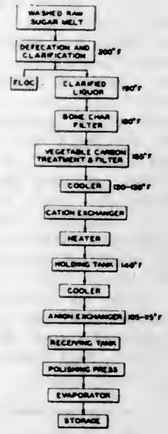


In a sleeping bag, an elongated fabric member folded along its longitudinal axis to provide a base portion and a cover portion, and said base portion having an extension to form a head section, a mattress secured to said base portion, a cover member folded along its longitudinal axis to provide upper and lower cover portions and the fabric and cover member being secured together at their folds in fixed relation to each other, separable fastener elements securing one end and one longitudinal edge of the lower cover portions to said mattress, separable fasteners securing one end and one longitudinal edge of the upper cover portion to said first cover portion to provide separate sleeping compartments, an insect guard of open mesh material having a closed end and an open end and having one portion of the edge of the open end fixed to the head section and separable fastener elements connecting the other portion of said one edge to the first said cover portion, and a flap on said head section providing a storage compartment in said head section for receiving said insect guard when not in use and a separable fastener for said flap to close said flap when the insect guard is stored therein.

2,594,439
TABLET JELLIES AND PROCESS OF PREPARING SAME
George Louis Baker, Newark, Del., and Mamie Olliver, Histon, Cambridge, England, assignors to Chivers & Sons Limited, Histon, Cambridge, England, a British company
No Drawing. Application April 17, 1950, Serial No. 156,494. In Great Britain April 25, 1949
27 Claims. (Cl. 99—132)

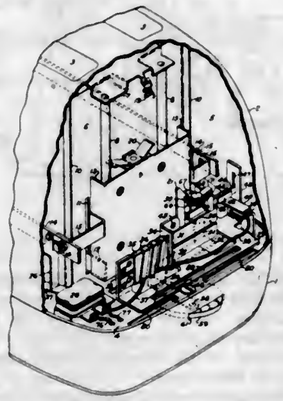
1. A concentrated pectin jelly composition in the form of a solid aqueous gel which will form a greater volume of an edible dessert jelly on dissolution in hot water following by cooling, said gel comprising pectin in completely dispersed state the methoxyl content of which pectin is within the range of from 1–8.5% based on 100% calcium pectate, an edible acid, a water soluble edible salt of a polyvalent metal and a sweetening agent selected from the group consisting of sugars, polyhydric alcohols derived from sugars by reduction, glycerine and edible sugar-containing compounds, the soluble solids content of said gel being within the range of from 68–80% by weight.

2,594,440
INVERT SIRUP PROCESS
Mary F. Hughes, Jersey City, N. J., and Medford A. McCalip, Yonkers, Howard S. Paine, Dobbs Ferry, and Norman Rosenberg, Yonkers, N. Y., assignors to Refined Syrups & Sugars, Inc., Yonkers, N. Y., a corporation of New York
Application March 3, 1949, Serial No. 79,352
9 Claims. (Cl. 127—41)



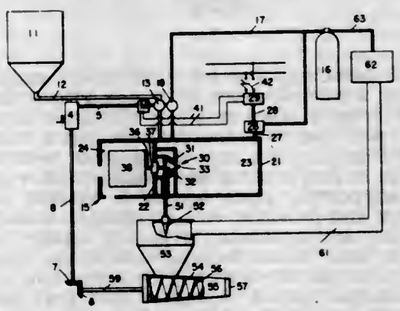
1. A process of preparing a clear substantially water-white demineralized syrup containing sucrose and invert sugar which comprises subjecting a high density sugar liquor to clarification and carbon decolorizing, thereafter passing such liquor at an elevated temperature through an acid regenerated cation exchanger to convert salts therein to acids and to invert sucrose, cooling the liquor thus obtained, and passing the cooled liquid through an anion exchanger to remove free acids.

2,594,441
BREAD TOASTING APPARATUS AND CONTROL
Warren A. Humphrey, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 31, 1948, Serial No. 5,583
5 Claims. (Cl. 219—19)



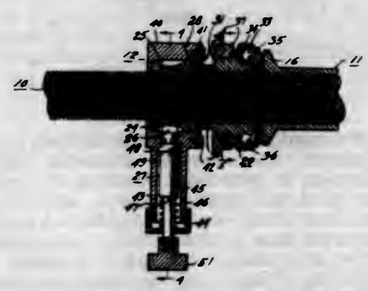
1. In a toaster, a toasting oven, heating means for said oven, a control chamber having a common wall with said oven, toasting operation control means in said chamber comprising a pair of thermostats supported in said chamber, one of said thermostats being arranged to deflect towards and way from said common wall as it heats and cools respectively, the other of said thermostats being arranged to deflect away from and toward said common wall, when it is heated and cooled respectively, means for heating said thermostats, means for initiating a toasting operation including means for energizing both of said heating means, means actuated by heat induced deflection of said one thermostat for de-energizing said thermostat heating means, and means actuated by deflection of said other thermostat induced by cooling subsequent to the deenergization of said thermostat heating means for de-energizing said oven heating means.

2,594,442
ICE-CREAM MANUFACTURING DEVICE AND PROCESS
Emmett M. Irwin, San Marino, Calif., assignor to Basic Processes, Inc., Pasadena, Calif., a corporation of California
Application June 16, 1947, Serial No. 754,888
5 Claims. (Cl. 62—2)



1. An apparatus for continuously transforming a liquid into finely divided solid particles comprising a source of supply of said liquid, a source of supply of liquid refrigerant, a mixing chamber, pumping means adapted to pump each of said liquids into said mixing chamber under pressure, means disposed in said mixing chamber adapted to emulsify said liquid and said liquid refrigerant, and means for discharging said emulsified liquids from said mixing chamber into atmospheric pressure to thereby permit expansion of said liquid refrigerant, which said liquid refrigerant upon expanding causes solidification of said liquid.

2,594,443
SPRING JACK
Thomas C. Johnston, Arlington, Tex.
Application October 29, 1947, Serial No. 782,932
2 Claims. (Cl. 74—142)

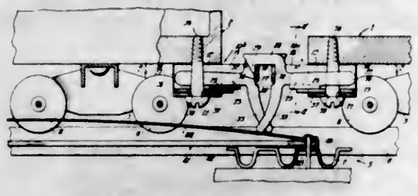


1. In a jack of the class wherein a threaded shaft has telescopic relationship with a tube for increasing and diminishing the over-all length of the jack, the improvement which comprises, a cylindrical nut in screw threaded engagement with the shaft, said nut provided with elongated slots open to its periphery, equally spaced apart circumferentially thereof and extending axially of the nut, an antifriction thrust bearing including an inner race member and an outer race member, said inner race member freely encircling said threaded shaft and integrally connected to one side of said nut and said outer race member extending beyond the outer end of the inner race member for abutting relation with said tube, a housing encasing said nut and movable circumferentially thereof and a ratchet pawl rotatably carried by said housing and spring biased to engage in any one of said slots for imparting circumferential movement to said nut upon rotation of said housing, said pawl being of a width greater than the width of any one of said slots whereby upon being retracted and turned crosswise of the said slots, the nut may be rotated independently of said housing and pawl by rotation manually imparted to the inner race of said antifriction bearing.

2,594,444
COUPLING FOR TOY RAILWAY CARS
Harold L. Joyce, Hartford City, Ind.
Application April 7, 1950, Serial No. 154,595
9 Claims. (Cl. 213—75)

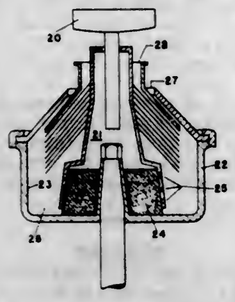
7. In a miniature railroad car coupler, a coupler body formed to provide a channel-shaped structure, the side walls of which are extended at one end beyond the connecting web, one side wall extension extending transversely intermediate its ends toward the other side wall extension to form a laterally extending latch bar, the free end of the opposite side wall extension extending laterally outward from substantially the juncture of the latch bar therewith, the connect-

ing web of said member having an aperture therein, a latch member having oppositely disposed side walls, both walls at one end being extended beyond the connecting portion therebetween, the other end of one of said side walls being extended beyond the adjacent end of the other side wall and terminating at its free end in an inverted hook portion, said latch member being movably positioned in said body with the opposed extended portions of the latch member disposed adjacent said aperture, and the hook portion extending over said latch bar, said latch member having a shoulder engageable with the lower edge of said latch bar when the latch member is moved in a direction toward said latch



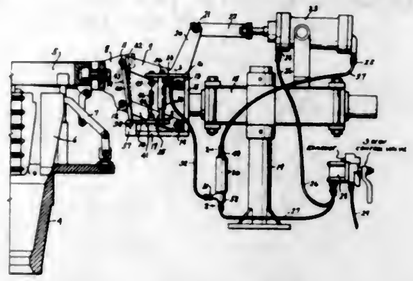
bar, a downwardly extending arm carried by said latch member operative to transmit upward forces thereon to said latch member for raising the latter to an uncoupling position, and a channel-shaped mounting member having an opening in the intermediate portion thereof and adapted to receive said body and latch member and adapted to be aligned with the aperture in said body for receiving means for mounting the coupler to a car, the height of the side walls of said mounting member and the distance therebetween being greater than the corresponding dimensions of the body member whereby the latter, when mounted on a car, is free to partially pivot, but is relatively fixed longitudinally.

2,594,445
CENTRIFUGAL MACHINE AND PROCESS
Frederick W. Keith, Jr., Haverford, Pa., assignor to The Sharples Corporation, a corporation of Delaware
Application October 23, 1946, Serial No. 705,121
10 Claims. (Cl. 233—2)



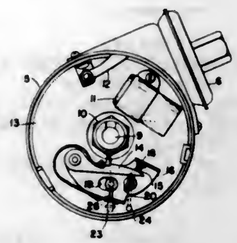
1. The process of separating from a liquid a material intimately mixed therewith, which comprises introducing the mixture into the center of a rotating zone, centrifugally forcing said mixture from said central zone of relatively low centrifugal force radially outwardly through a zone of fibrous material into a zone of relatively high centrifugal force, subjecting said mixture to further centrifugation to separate said liquid from said material mixed therewith, and separately discharging said liquid and said material.

2,594,446
SLIP LIFTER LOCK
Benjamin F. Kelley, Tulsa, Okla.
Application June 16, 1945, Serial No. 599,938
2 Claims. (Cl. 24—263)



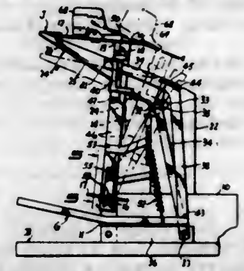
1. Apparatus for operating a slip spider, comprising, a lifting yoke attachable to a slip spider, a reciprocating piston connected to said yoke and actuable by fluid pressure to raise and lower same, a pivoted latch element normally disposed in the path of downward movement of said yoke, a plunger engaged with said latch element and actuable by fluid pressure to move said latch element out of said path, and means for supplying actuating fluid sequentially first to said plunger and second to said piston when the latter is to be moved in a direction to lower said yoke, said means comprising a pressure fluid supply conduit connecting said piston with said plunger, and back-pressure check valve means interposed in said conduit automatically operative by the fluid flowing therethrough toward said piston to divert a portion thereof to said plunger in advance of that flowing toward said piston.

2,594,447
POINT ADJUSTER FOR DISTRIBUTORS
James S. Kerr, Cumberland, Md.
Application December 28, 1949, Serial No. 135,337
3 Claims. (Cl. 200—31)



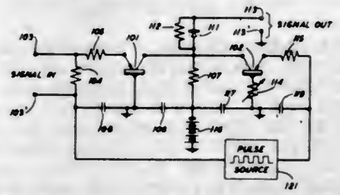
1. A point adjuster for distributor heads, including the combination with a distributor housing, a breaker plate mounted therein, a breaker arm associated with the plate having a breaker point thereon, of a supporting plate removably secured in said housing and to said breaker plate, said supporting plate having a breaker point thereon and provided with an opening and arcuated slot and associated with said breaker plate and its arm, means associated with the breaker plate to permit movement of the supporting plate, and exterior means to engage said first named means to adjust the distance between the points and additional means to lock them in said adjusted position.

2,594,448
TOY DOG BANK
Henry A. Kieselhorst, Richmond Heights, Mo., assignor to June K. Kieselhorst, St. Louis, Mo.
Application May 5, 1950, Serial No. 160,286
9 Claims. (Cl. 46—4)



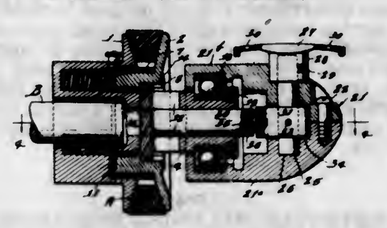
1. A toy of the character described, comprising a body having movable upper and lower jaws, means supporting the upper jaw for forward and rearward movements, means supporting the lower jaw for up and down movements, cocking means for placing the jaws under spring tension, release means for releasing the jaws whereby the upper jaw will move rearward as the lower jaw moves downward, and means for retarding the return forward and upward movement of the jaws.

2,594,449
TRANSISTOR SWITCHING DEVICE
Reymond J. Kircher, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1950, Serial No. 203,624
13 Claims. (Cl. 171—97)



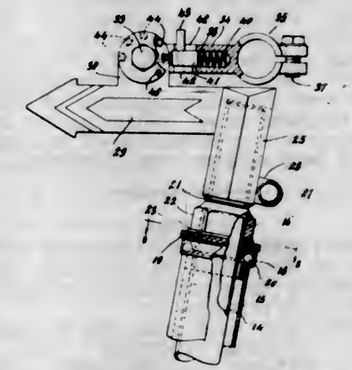
13. A sampling circuit which comprises in combination a signal source, a signal utilization circuit, a first and a second transistor, each comprising an emitter electrode, a collector electrode and a base electrode in contact with a semiconductor body, a first junction to which is connected said signal source, the emitter of said first transistor, and the collector of said second transistor, a second junction to which is connected said signal utilization circuit, the collector of said first transistor, and the emitter of said second transistor, the base electrode in each of said transistors connected to respective collector electrode thereof through a resistance which is large compared to the resistance of the respective base electrode, and a pulsing source having a repetition rate which is high relative to the frequency of said source coupled to said transistors to alternatively change the bias on said transistors from a first condition wherein the first one of said transistors presents an impedance which is substantially zero and the second of said transistors presents an impedance which is high relative to the impedance of said signal utilization circuit, and a second condition in which said second transistor presents an impedance which is substantially zero and said first transistor presents an impedance which is high relative to the impedance of said signal utilization circuit.

2,594,450
PULLEY AND CLUTCH MECHANISM
Paul F. Koch, Chicago, Ill., assignor to Chicago Die Casting Manufacturing Company, a corporation of Illinois
Application January 3, 1951, Serial No. 204,113
9 Claims. (Cl. 74—230.24)



6. A pulley and clutch mechanism comprising a pulley divided into two members transversely of the pulley axis, each member having thereon a flange cooperating with the flange on the other member to create an annular belt-receiving valley, one of said members being provided with an axial, tubular post extending through and being a sliding fit in the second of said members, said post containing diametrically opposed, longitudinal slots, a cross bar extending through said slots and interlocked at its ends with said second member, a section at the outer end of the post being reduced in diameter to provide an annular shoulder at the inner end of that section, a ball bearing assembly rotatable on said section, a nut on the post cooperating with said shoulder to hold the bearing assembly in place, a divided casing in one end of which said ball bearing assembly is gripped and housed, a plunger slidable in the post and engaged at one end with said cross bar, a cam in said casing engaged with the other end of said plunger and shaped to move the plunger inwardly upon turning the cam into a predetermined position, and an element extending from the cam to the exterior of the casing for turning the cam.

2,594,451
ADJUSTABLE HANDLE BAR
John Konsel, Massapequa, N. Y.
Application July 17, 1946, Serial No. 684,155
1 Claim. (Cl. 74—551.3)



A steering mechanism, a vertical member attachable to the upper end of a fork of a bicycle or the like, a link pivoted to said vertical member about an axis such as would be horizontal and transverse to the direction of motion of a

vehicle to which the device may be attached, means to lock said pivot at any desired angle between the link and the member, a pair of handle bars pivoted to said link about an axis spaced from and parallel to said first mentioned axis and means for fastening said pivotal connection against movement about its axis, said locking means comprising a drum on said vertical member having circumferentially spaced openings and a movable pin slidable on said link in position to enter one of said openings to lock said link to said vertical member independent of fastening means and a button operable in a slot in said link and connected to said pin for manually operating the pin.

2,594,452

METHYLOL MELAMINE DERIVATIVES

Milton Kosmin, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application November 24, 1948, Serial No. 61,891

13 Claims. (Cl. 260—67.6)

13. A method of preparing colorless alkylene oxide adducts which comprises heating a melamine compound of the group consisting of the methylol melamines and the partial alkyl ethers of methylol melamines containing reactive methylol groups, said alkyl group containing up to twenty carbon atoms; with an alkylene oxide, wherein the epoxy group is joined to contiguous carbon atoms; in an alkaline medium having dispersed therein from 0.001 to 1.0 mole, per mole of said methylol melamine compound, of a substantially colorless boron compound.

2,594,453

DETERGENT COMPOSITIONS

Milton Kosmin and Jay C. Harris, Dayton, Ohio, assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application April 1, 1950, Serial No. 153,491

5 Claims. (Cl. 252—140)

1. A detergent composition comprising in parts by weight from 15 to 30 parts of the condensation product of tall oil with ethylene oxide, said condensation product containing at least 0.5 part, but less than 2.3 parts, of condensed ethylene oxide per part of tall oil, from 20 to 50 parts, anhydrous basis, of a sodium phosphate selected from the group consisting of trisodium phosphate, sodium tripolyphosphate, tetrasodium pyrophosphate and sodium hexametaphosphate and mixtures thereof, and from 20 to 40 parts, anhydrous basis, of a non-phosphate salt selected from the group consisting of soda ash, sodium sesquicarbonate, sodium sulfate and sodium borate and mixtures thereof and from 0.1 part to 5 parts of carboxymethylcellulose.

2,594,454

ORGANIC PHOSPHORUS ACIDS AND ESTERS

Gennady M. Kosolapoff, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application May 31, 1946, Serial No. 673,602

6 Claims. (Cl. 260—461)

1. The method of preparing a phosphorus-containing organic compound which comprises mixing a hydrocarbon with phosphorus trichloride and an aluminum halide, and then adding chlorine to said mixture.

2,594,455

PROCESS OF MAKING A DIALKYL PHOSPHORYL MONOETHYL HYDROCARBON PHOSPHONATE

Gennady M. Kosolapoff, Auburn, Ala., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application June 3, 1949, Serial No. 97,073

6 Claims. (Cl. 260—461)

1. The process which comprises reacting a dialkyl ester of a hydrocarbon phosphonic acid with ethyl metaphosphate and forming a dialkyl phosphoryl monoethyl hydrocarbon phosphonate.

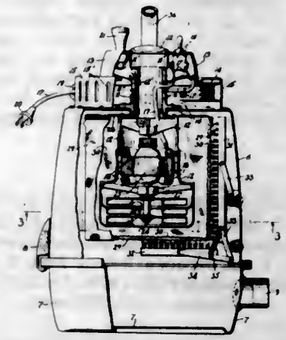
2,594,456

VACUUM CLEANER

Henry A. Kroenlein, Los Angeles, Calif., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application October 16, 1948, Serial No. 54,976

11 Claims. (Cl. 183—37)



1. In a suction cleaner, a casing having an air inlet therein, a bearing structure on said casing, a power unit rotatably supported on said bearing structure comprising a suction air fan and an electric motor drivingly connected to said suction air fan, a filter in said casing interposed between said suction air fan and said casing air inlet, filter cleaning means, and means operated by rotation of said power unit for producing relative movement between said filter and said filter cleaning means to remove dirt from the surface of said filter.

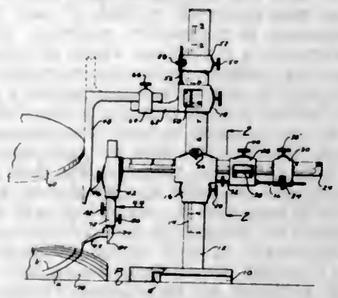
2,594,457

APPARATUS FOR SCRIBING

Fred E. Kunzler, Jamaica, N. Y.

Application September 3, 1948, Serial No. 47,614

7 Claims. (Cl. 33—21)



1. Means for projecting lines on compound curved surfaces comprising a movable base member, a column perpendicular to and supported by said base member, a member adjustably mounted on said column, means on said member for fixedly supporting a guide, a spring loaded scriber, and means for adjustably supporting said scriber on the column in a predetermined relationship to the guide whereby movements of the guide are translated in a predetermined manner to the scriber with the scriber resting on and following the contour of the surface being scribed in a direction transversely of the movement of the guide.

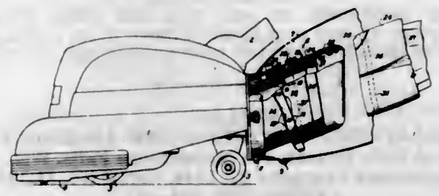
2,594,458

FILTER ATTACHMENT FOR SUCTION CLEANERS

Nelson W. La Briere, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio

Application March 31, 1948, Serial No. 18,103

1 Claim. (Cl. 183—51)



A filter bag mounting device for suction cleaning apparatus comprising a conduit structure having an end portion and a shank portion of reduced external diameter joined by a shoulder extending radially of said structure and lying in a plane transverse and inclined to the axis of said conduit structure, a ring of compressible elastic material around said shank portion abutting said shoulder, a compression ring encompassing said shank portion and slidable axially thereof, said compression ring having one end face lying in a plane parallel to said transverse and inclined plane and its other end face lying in a plane normal to the axis of said conduit structure, a cam ring encompassing said conduit structure and rotatable with respect thereto and having one end face abutting said other end face of said compression ring and its other end face formed as a cam surface, means on said conduit structure forming a stationary cam surface abutting said first mentioned cam surface whereby rotation of said cam ring shifts said compression ring axially of said structure to compress said elastic material.

2,594,459

DIVING BOARD

Raymond G. Larson, Jr., Houston, Tex.

Application December 12, 1949, Serial No. 132,459

4 Claims. (Cl. 272—66)



1. A diving board comprising, in combination, a flexible elongated member of methyl methacrylate resin in which is embedded at least one flexible metal reinforcing bar defining with a top outer surface thereof a recessed space extending substantially the length of said member, skid resistant means arranged in said recessed space affixed to said elongated member, anchoring means adjacent a first end of said member attaching said member to a rigid support, and light emitting means arranged in juxtaposition with said first end and adapted to transmit light through said elongated member to a second end thereof.

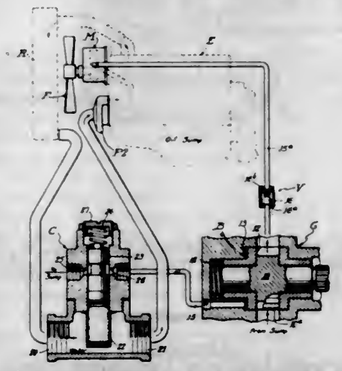
2,594,460

POWER UNIT WITH THERMOSTATIC CONTROL

John A. Lauck, Shaker Heights, Ohio, assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application August 17, 1948, Serial No. 44,664

5 Claims. (Cl. 236—35)



1. In a power unit arrangement including a rotating type of liquid pressure responsive motor adapted to be intermittently driven; an intermeshing gear type of liquid pressure generator and temperature responsive means effective to initiate and to discontinue the delivery of liquid pressure from said generator to said motor, said temperature responsive means comprising an axially adjustable end plate within said generator having an inner surface area effective when held in engagement with the adjacent gear side face to provide a liquid pumping seal and having an axially oppositely facing surface area adapted to be responsive to the liquid pressure generated by said pump for holding said inner sealing surface area in sealing engagement with the gear side face, said end plate being axially adjustable in response to the release of said pressure on said second surface area effective to discontinue the delivery of pressure liquid from said generator to said motor and temperature responsive means including a valve effective in response to a selected value of temperature to relieve said loading pressure and responsive to a second value of temperature effective to maintain said loading pressure.

2,594,461

CONTINUOUS SOAPMAKING

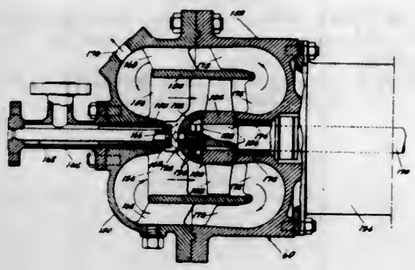
Lowell A. Ledgett, Ridgewood, N. J., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware

Application December 22, 1944, Serial No. 569,343

6 Claims. (Cl. 260—415)

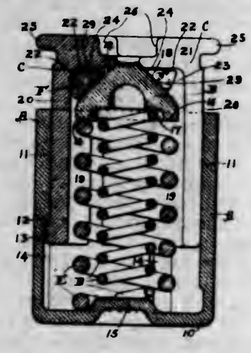
1. A continuous process of making soap comprising establishing a mass of fluid soap in an elongated reaction chamber of annular cross-section, circulating said fluid soap axially in said chamber in one direction adjacent to the inner wall thereof and axially in the opposite direction adjacent to the outer wall thereof, subjecting the circulating stream of soap in at least one zone to disruptive shear, continuously introducing separate streams of fatty material and alkali solution

into said circulating stream of soap adjacent to, and in advance of, said zone of disruptive shear, and continuously withdrawing a stream of soap



from said circulating stream adjacent to, but in advance of, the place of introduction of said fatty material and caustic.

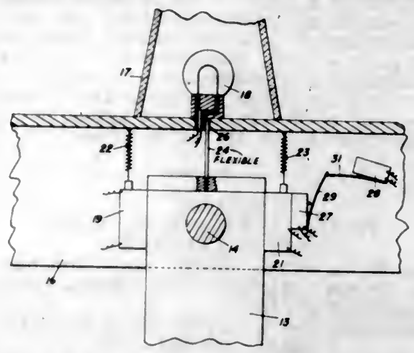
2,594,462
FRICTION SHOCK ABSORBER FOR RAILWAY CAR TRUCKS
Edward H. Lehman, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application April 28, 1950, Serial No. 158,660
3 Claims. (Cl. 267—9)



1. In a friction shock absorber, the combination with a friction casing; of friction shoes slidingly telescoped within the casing; inserts within the shoes in rocking engagement therewith, said inserts having lengthwise crowned wedge faces thereon; a combined wedge and spring follower member, having wedge faces engaged with the wedge faces of said inserts of said shoes; and spring means within the casing yieldingly opposing inward movement of said member.

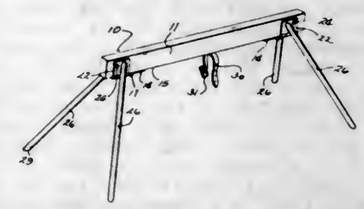
2,594,463
MOVABLE HIGHWAY SIGNAL
Emile A. Lieutard, San Francisco, Calif.
Application June 22, 1950, Serial No. 169,760
2 Claims. (Cl. 177—329)

1. A signal comprising a base, a supporting structure mounted on said base, a horizontal arm pivotally mounted on said support, spring means for normally holding said arm in horizontal position, a pair of electrically controlled solenoids for working said arm about said pivot, and a



signal positioned on said arm and offset from the pivot of said arm so as to move in an arcuate line of travel when said arm is activated.

2,594,464
COLLAPSIBLE SAWHORSE LEG ASSEMBLY
Fred Belle Loucks, Jr., Menomonee Falls, Wis.
Application February 27, 1948, Serial No. 11,561
1 Claim. (Cl. 304—5)

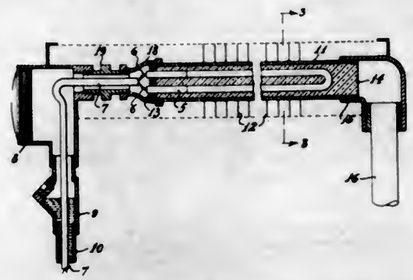


In a collapsible saw horse having a wood body portion rectangular in cross-section, a leg assembly including a plate adapted to be fixed to the bottom of said body portion, a movable plate hinged transversely of the body portion to said first mentioned plate, a pair of side plates each hinged to opposite sides of said movable plate, said side plates adapted to rest against the side faces of said body portion when said saw horse is in set up position, and a tubular metal leg angularly anchored to each side plate, above the center thereof in said set up position, the area dimensions of a side plate being greater than the corresponding dimensions of the leg element face anchored thereto, said side plates each having a bolt opening in alined position for anchoring the legs in active service position and prevent collapse of the horse by single bolt connection through the body portion, release of the bolt permitting swinging of the hinged leg elements into collapsed position beneath the body portion.

2,594,465
ELECTRIC HEATER
Peer Lovfald, Lincroft, N. J.
Application January 25, 1949, Serial No. 72,679
1 Claim. (Cl. 219—38)

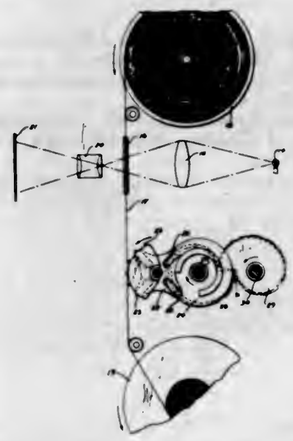
A low temperature explosionproof electric heater of the character described comprising, a finned tubular body threaded at both ends, a hairpin-shaped electric heating element cast in aluminum into said finned tubular body, a mounting elbow

placed on one end of said body, a thread reducer placed on the other end of said body where the



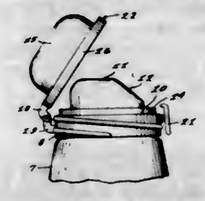
leads from said heating element come out, and an explosionproof fitting threaded into said reducer.

2,594,466
INTERMITTENT FILM FEEDING MECHANISM UTILIZING SCROLL GEARS
Otto H. Luther, New York, N. Y.
Application March 15, 1949, Serial No. 81,575
5 Claims. (Cl. 88—18.3)



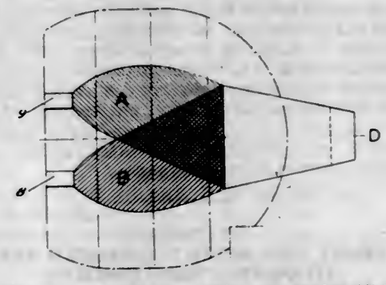
1. In apparatus of the class described, a driving shaft having uniform angular velocity, a scroll gear on said shaft, film feeding mechanism including a first rotary means adapted to move film and a second means adapted to intermittently engage and move said first means from rest to a maximum sped and return same to rest during each period of engagement, and a second scroll gear driven by said first gear and connected to said second means to continuously rotate same, said gears being meshed together with the largest radius of said first gear meshed with the smallest radius of said second gear so as to operate cyclically in less than one-half revolution of said driving shaft to cause said first and second means of said film feeding mechanism to engage when said second gear and the second means of said mechanism are moving at an angular velocity less than the angular velocity of said first gear, said second rotary means engaging said first rotary means to impart thereto a movement which is first lessened after engagement and then increased to maximum while said first and second rotary means are in engagement.

2,594,467
SALT SHAKER
Granville W. Lynch, Jr., and Jason M. Fischer, Charleston, S. C.
Application November 25, 1947, Serial No. 788,044
1 Claim. (Cl. 222—542)



A moisture-proof saltshaker comprising a container with a threaded open top, a removable cap for closing said top, said cap including an annular ring portion threaded on its inner surface and engaging said threaded open top, a circumferential flange portion extending inwardly from the upper end of said ring portion, and a hollow crown portion extending upwardly from the inner periphery of said flange portion, said crown portion having a perforated flat slanted surface on one side thereof for the ejection of a condiment therefrom, an annular gasket positioned on said circumferential flange portion and spaced inwardly from the outer periphery of the flange portion, a hollow lid pivotally attached to said ring portion for enclosing said cap with the lid in a closed position, said lid having a circumferential flange adjacent its open end and adapted to seat on said gasket, said flange having a depending peripheral skirt encompassing the gasket, resilient means normally urging said lid into an open position, and means on said ring portion and on the skirt for compressively maintaining the circumferential flange portion of said lid against said gasket in a sealing relation, when said lid has been moved into its closed position against the opposition of said resilient means.

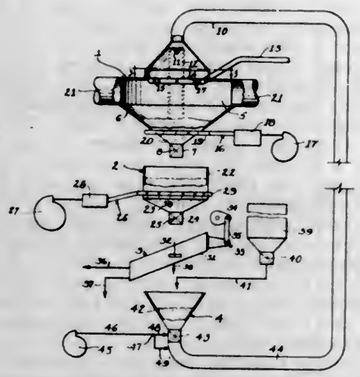
2,594,468
PROCESS OF MAKING COMBUSTIBLE GAS FOR USE IN INTERNAL-COMBUSTION ENGINES
Dorothy E. Mackenzie and George H. Wolfe, Reno, Nev.
Application September 6, 1946, Serial No. 695,210
2 Claims. (Cl. 48—206)



1. The process of generating a combustible gas for use in internal combustion engines, which comprises establishing a plurality of separate combustion zones which merge into a common zone in a fuel bed in a gas producing apparatus by continuously drawing controlled amounts of preheated air into and through said combustion zones and said common zone at a high velocity and in a horizontal path across said fuel bed at a rate sufficient to yield products of partial com-

bustion containing appreciable amounts of carbon monoxide, directing steam at a constant rate to said apparatus and rhythmically injecting equal amounts of said steam successively into each of said combustion zones, so that during operation the products of partial combustion from all of said combustion zones and the products of the reaction of the steam with said fuel in the zone into which the steam is being introduced are continuously drawn through said common zone and withdrawn from the producer.

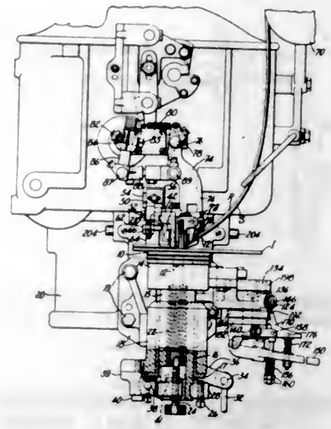
2,594,469
METHOD OF SPRAYING FREELY FALLING PARTICLES
John Joseph Mahoney, New York, N. Y., assignor to Colgate-Palmolive-Peet Company, Jersey City, N. J., a corporation of Delaware
Application May 10, 1947, Serial No. 747,267
2 Claims. (Cl. 117—100)



1. The process which comprises dropping preformed solid particles of organic detergent in a thin curtain which is annular in horizontal section, spraying said particles while freely falling with a liquid coating fluid, the spray being directed toward said curtain from a plurality of points surrounding the curtain, accumulating a mass of said sprayed particles, fluidizing said mass with air heated to a temperature of about 130° F. to remove excess moisture whereby the particles are heated to a temperature at which caking would result if the particles were packaged at that temperature, withdrawing particles from said mass at a temperature of about 100° F. and accumulating said withdrawn particles into a second mass, fluidizing said second mass with cooling air to cool the particles to a temperature of about 90° F. at which caking does not occur when the particles are packaged, and withdrawing cooled particles from said second mass.

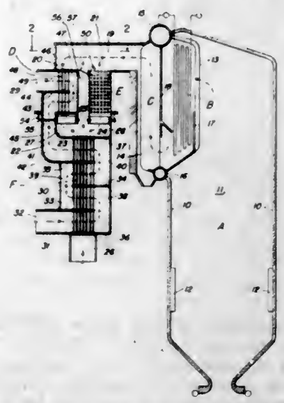
2,594,470
MACHINE FOR APPLYING RIBBED STRIPS TO ORTHOPEDIC INSOLES
Norman E. Mariner, Beverly, Mass., assignor to United Shoe Machinery Corporation, Flemington, N. J., a corporation of New Jersey
Application March 20, 1951, Serial No. 216,526
7 Claims. (Cl. 12—20)

1. A machine for applying ribbed strips to orthopedic insoles to form sewing ribs thereon having, in combination, a work support, means for applying a ribbed strip to an insole on said support, a gage engaging the edge of the insole, a hand lever for moving the gage relatively to the support to vary the distance from the edge of the insole to the rib of the strip, and means



responsive to extreme retractive movement of the lever for lowering the gage below the plane of the support.

2,594,471
HEAT EXCHANGE APPARATUS
Leonard J. Marshall, Tenafly, N. J., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application October 11, 1946, Serial No. 702,860
5 Claims. (Cl. 257—220)



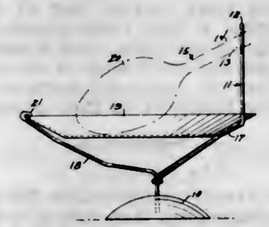
1. In heat exchange apparatus for transferring heat from high temperature gases obtained from a given hot gas source; the combination of a first and second air heater, each air heater having an air inlet and an air outlet, a gas inlet and a gas outlet; a heat exchanger having a gas inlet and a gas outlet; conduit means for delivering said high temperature gas to both the gas inlet of said first air heater and the gas inlet of said heat exchanger; conduit means for delivering said high temperature gas to the gas inlet of said second air heater thereby by-passing said first air heater and said heat exchanger; conduit means connecting the gas outlet of both the first air heater and the said heat exchanger to the gas inlet of the second air heater; conduit means for delivering the air to be heated to the air inlet of the second air heater; conduit means connecting the air outlet of the second air heater to the air inlet of the first air heater; conduit means for removing the heated air from the first air heater; and means for conducting a fluid through said heat exchanger for extracting heat from the portion of the said high temperature gases passing therethrough.

2,594,472
FISHHOOK LEADER CARRIER
Benjamin M. McClain, Seattle, Wash.
Application July 1, 1950, Serial No. 171,591
1 Claim. (Cl. 43—57.5)



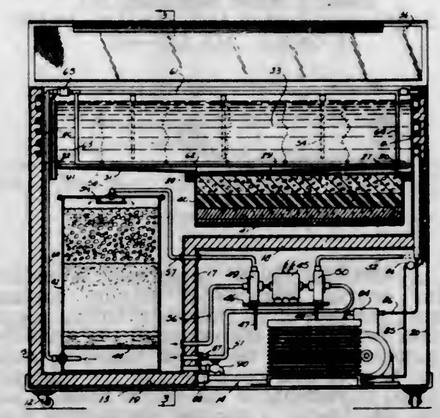
A carrier for a fish hook and leader comprising an elongated strip formed of sheet material and being of appreciably greater width than thickness, said strip having slots leading from opposite ends intermediate its width for reception of portions of a leader when the said leader is wound about the strip longitudinally thereof, each end portion of said strip being formed with a hook-receiving opening located between the slot therein and an adjacent side edge of the strip for reception of a hook at an end of the said leader, and a keeper pivoted at one end against a side face of said strip substantially midway the length thereof for swinging movement longitudinally of the strip to a position in which it extends towards a selected end of the strip, and said strip being formed with transversely extending slots leading from a side edge of the strip and spaced from each other longitudinally of the strip with the pivoted end of the keeper midway between whereby an end portion of the leader may be wrapped about the strip transversely thereof with portions passing through a selected transverse slot and the keeper swung to a position longitudinally of the strip and across the transversely wound end portion of the keeper with the said end portion of the leader gripped between confronting the side faces of the strip and the keeper.

2,594,473
DRIP-CATCHING SPOON RACK
Ernest E. McCoy, Grand Lake, Colo.
Application August 10, 1949, Serial No. 109,532
1 Claim. (Cl. 65—65)



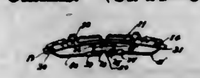
As a new article of manufacture, a rack for supporting spoons comprising a base fabricated of a non-inflammable material, a body member projecting upwardly from said base and secured thereto, said body member being provided with a plurality of recesses for receiving and supporting individual spoons therein, said body member being provided with a pair of inclined portions defining shoulders, an inclined support member projecting laterally from said body member and coacting with said shoulders to support thereon a pan in elevated relation to said base, said pan serving to collect drippings from said spoons, and said support member terminating in a hook for preventing accidental movement of said pan.

2,594,474
REFRIGERATED DISPLAY TANK
Lewis J. McGrath, Newtonville, Mass.
Application April 28, 1950, Serial No. 158,697
5 Claims. (Cl. 62—89.5)



1. A display device for aquatic creatures comprising a liquid tank having heat insulative walls and an open upper end, said walls being shaped to provide in the lower portion of the device a chamber having a length less than the length of the tank, a first filter mounted in said tank above said chamber, a perforated plate disposed in said tank below the upper end thereof and covering said filter, a closed container disposed in said tank adjacent the inner end of said chamber, a second filter in said container, two motor driven liquid pumps mounted in said chamber, conduit means connecting the inlet of one of said pumps to the interior of said tank near the bottom thereof and the outlet of said pump to the interior of said tank above said plate, conduit means connecting the inlet of the other of said pumps to the interior of said tank near the bottom thereof and the outlet of said other pump to the interior of said container and connecting the interior of said container to the interior of said tank above said plate, air introducing means connected into each of said conduit means, a refrigerating coil in the wall of said tank, and refrigerating apparatus mounted in said chamber and connected to said coil.

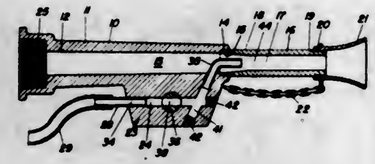
2,594,475
PIN AND CLASP FOR JEWELRY
Maximilian C. Meyer, Brooklyn, N. Y.
Application December 22, 1948, Serial No. 66,725
2 Claims. (Cl. 24—88)



1. A two-part dual-function jewelry clasp comprising a first part and a second part, said first part containing means adapted to hold the end of at least one string and having a substantially flat back containing two ears extending substantially perpendicularly therefrom, means holding a plurality of pin elements pivotally sup-

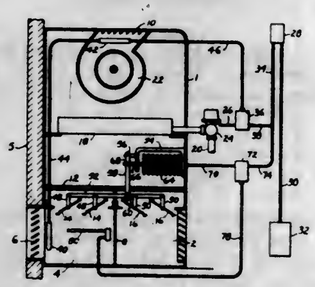
ported from said ears, said second part containing means adapted to hold the end of at least one string, pin elements adapted to fasten the part, per se, to an article of wearing apparel, and, in addition, a stirrup shaped holding means adapted to cooperate with the ears and pivotally mounted pin elements of said first part to securely attach the second part to said first part.

2,594,476
GARDEN AND INSECTICIDE SPRAYER
Henry J. Miller, Baltimore, Md.
Application April 26, 1949, Serial No. 89,640
3 Claims. (Cl. 299—83)



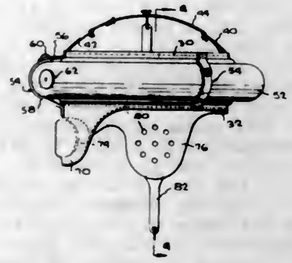
1. A spraying device comprising a unitary casing having longitudinal parallel passages therein, the first of said passages having a continuous smooth bore therethrough and a tapered constriction therein, means for supplying water to the first of said passages and for supplying chemical ingredients to the second passage, said casing also having a channel establishing communication between said passages, a pipe protruding from said second passage into said first passage and being bent therein into alignment with said first passage and emerging in said first passage in proximity to the constriction, whereby flow through said pipe is subjected to ejector action, a rotary valve in said casing controlling the flow of chemical ingredients in the second passage, said valve having a transverse passage communicable with the second passage and opposed tapered peripheral notches communicating with said transverse passage for gradual admission and closure of the ingredients through the second passage, and means for adjusting the location of the aforesaid tapered constriction with respect to the bent pipe, whereby flow through said pipe may be varied.

2,594,477
AIR-CONDITIONING APPARATUS
Robert G. Miner and Arthur O. Andersen, La Crosse, Wis., assignors to The Trane Company, La Crosse, Wis.
Application March 9, 1950, Serial No. 148,683
6 Claims. (Cl. 236—37)



1. An air conditioning unit comprising a radiator adapted to be connected to a source of heat exchange fluid, means for moving air through said unit, a valve for controlling the flow of heat exchange fluid through said radiator, a first thermostat responsive to the temperature of the enclosure served by said unit for controlling said valve, a second thermostat for controlling said valve, said second thermostat having a first temperature sensitive element in the air stream leaving said radiator, said second thermostat having a second temperature sensitive element in the outdoor air stream, damper means for admitting predetermined quantities of outdoor air and recirculated air to said unit, power means for adjusting said damper means, said power means being connected to said first thermostat and being controlled thereby, a third thermostat for controlling said power means, said third thermostat having a temperature sensitive element in the outdoor air stream.

2,594,478
BOXING HEAD GUARD
Sam F. Moore, Utica, N. Y.
Application March 27, 1951, Serial No. 217,846
2 Claims. (Cl. 2—3)



2. A boxing head protector comprising a circular head band having an elastic expansible section, cross straps secured to the upper edge of the head band forming a crown, a continuous seat formed on the outer surface of the head band, a single cell inflatable member seated in said seat, means for releasably holding said inflatable member in place, ear protectors depending from the head band at diametrically opposed points, an adjustable chin strap connecting the ear protectors, said means including a plurality of cooperating strap means, each of said strap means including a first strap depending from the upper edge of the band, and a second strap extending from the lower edge of the band, said straps overlying the inflatable member and having cooperative fasteners on their adjoining free ends.

2,594,479
ICED FOOD CONTAINER PROP
Louis Moschetto, Ridgewood, N. Y.
Application June 19, 1947, Serial No. 755,622
3 Claims. (Cl. 137—21)

1. In an iced food shipping container prop, the combination of a plurality of spaced ribs of triangular cross section, with the apex extending upwardly, extending from the front to the back of the prop, a surrounding rim for the ribs, and secured thereto, legs for supporting the rim, more than three in number, a pan below the ribs and secured to the rim and having a downward slope from its margin to the central part thereof, and

having an opening at its lowermost part, and a drip box slidable between the legs and below



the opening when in its normal position, and capable of removal for emptying.

2,594,480
BIS(p - CHLOROPHENYLMERCAPTO) METHANE AND INSECTICIDAL COMPOSITIONS THEREOF
David T. Mowry, Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application June 2, 1949, Serial No. 96,827
4 Claims. (Cl. 167—30)

1. Bis(p-chlorophenylmercapto) methane.

2. An insecticidal product comprising bis(p-chlorophenylmercapto) methane and an insecticide carrier therefor.

2,594,481
SEPARATION OF ALCOHOLS
Norman J. Bowman, Gary, and Alfred W. Weitkamp, Whiting, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application September 30, 1948, Serial No. 52,123
10 Claims. (Cl. 260—643)

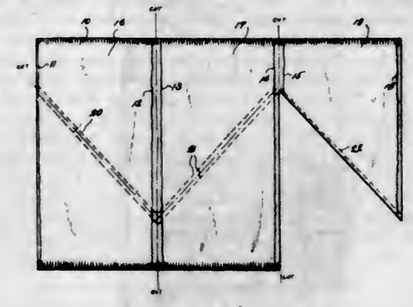
1. In a process for separating an aliphatic alcohol, unbranched except for a maximum of one methyl group, from a mixture thereof with a urea-unreactive organic compound, the steps which comprise converting said alcohol in said mixture into a monomethyl-branched aliphatic ester wherein the straight-chain terminal portion containing the characteristic carbonyloxy group



contains also a total of at least four methylene groups, contacting said mixture with urea, and withdrawing a solid adduct containing urea and said ester.

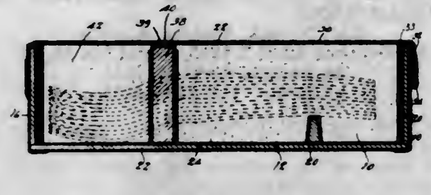
2,594,482
TOE COVERING AND METHOD OF MAKING SAME
Dora L. Naden, Tampa, Fla.
Application December 2, 1949, Serial No. 130,747
2 Claims. (Cl. 2—61)

1. The method of making toe coverings comprising first forming spaced pairs of circumferentially extending markings in a tubing of hosiery material to form panels of double thickness therein, next running a pair of spaced diagonally extending lines of stitching through each panel edge at points spaced from each corner thereof, then cutting said tubing between the markings and between the lines of stitching to form sections, next laying out the sections thus formed with the stitched portion centrally disposed, then sewing the smaller marked end perpendicularly



to the centrally disposed stitching, and finally reversing the item thus formed.

2,594,483
RECEPTACLE FOR TABLEWARE AND THE LIKE
Morris I. Naken, Chicago, Ill.
Application June 20, 1947, Serial No. 755,915
2 Claims. (Cl. 217—3)

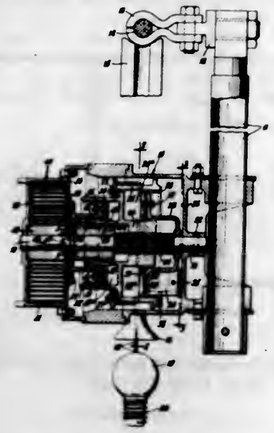


1. A relatively airtight receptacle for tableware and the like comprising an open top rigid walled container body having a front wall partially felted on its outer face, a flexible cover for said container body permanently secured to the rear wall of said container body, said cover having a felted inner face and being of sufficient length to impend over the partially felted outer face of the front wall of said container body, the felted surfaces of the cover and the outer face of the front wall being in juxtaposition when the receptacle is closed, slide fastening opening and closing means along the sides of said container body and cover for opening and closing said receptacle and a weighted member enclosed in the front edge of said cover to retain the depending portion of said cover in contact with the front wall of said receptacle whereby felted portions of the cover and the front wall are kept in constant juxtapositive position when the receptacle is closed.

2,594,484
REELING DEVICE
Leroy Nixon, Newtown, Pa., assignor to John A. Roebling's Sons Company, Trenton, N. J., a corporation of New Jersey
Application August 10, 1948. Serial No. 43,440
12 Claims. (Cl. 254—160)

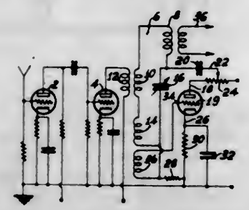
1. A reeling device which comprises a rotatable drum for paying out and reeling in a line, a spring urging said drum to reel in the line, a brake shoe rotated by the drum, a stationary

surface positioned adjacent said brake shoe, and pneumatic means between said drum and brake



shoe operated by rotation of said drum to press said brake shoe against said surface.

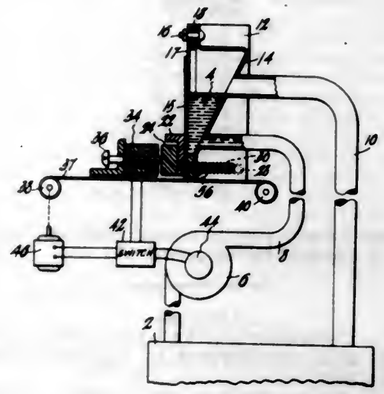
2,594,485
CIRCUIT ORGANIZATION ADAPTED TO RECEIVE OR AMPLIFY ELECTRIC OSCILLATIONS
Karl Nowak, Vienna, Austria
Application April 2, 1949, Serial No. 85,182
In Austria April 15, 1948
1 Claim. (Cl. 179—171)



An amplifier arrangement comprising in combination an amplifier having at least a plate, a grid and a cathode, a parallel tuned circuit having inductive and capacitative branches, one end of said tuned circuit being coupled to said plate, a degenerative impedance connected between the other end of said tuned circuit and said cathode, said inductive branch being formed of three uncoupled coils, a signal input coil coupled to one of said coils in the inductive branch of said tuned circuit, a load coil coupled to another of the coils in said inductive branch, a coil coupled between said other end of said tuned circuit and said grid, said latter coil being regeneratively coupled to a third coil in the inductive branch of said tuned circuit.

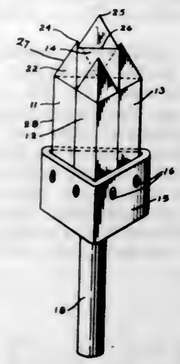
2,594,486
SPLASHPROOF PAPER MOISTENER
Roger G. Olden, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 26, 1949, Serial No. 83,675
5 Claims. (Cl. 118—401)

1. An apparatus for applying a liquid to a moving strip without splashing, comprising a closed reservoir, a plate forming one side of said reservoir, a gasket mounted on the reservoir so as to be opposite the edge of said plate, said plate being hinged at the top and in contact with said strip



along its bottom, means for limiting said plate to a predetermined maximum open position.

2,594,487
GLASS DRILL
Wilbur C. Palmer, Corning, N. Y., assignor to Corning Glass Works, Corning, N. Y., a corporation of New York
Application September 3, 1947, Serial No. 771,927
5 Claims. (Cl. 255—61)

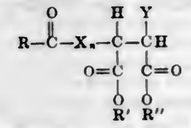


1. A drill comprising a leader drill bit of triangular configuration in cross-section and a cluster of at least three similar drill bits arranged symmetrically about and in abutting relation with said leader bit.

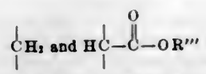
2,594,488
PLASTICIZED POLYVINYL CHLORIDE COMPOSITIONS
Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application December 29, 1949, Serial No. 135,830
16 Claims. (Cl. 260—31.8)

1. A plasticized vinyl chloride resin which comprises a polymer of vinyl chloride containing in-

timately dispersed therein a compound having the general ketone-ester formula:



wherein X is selected from the group consisting of

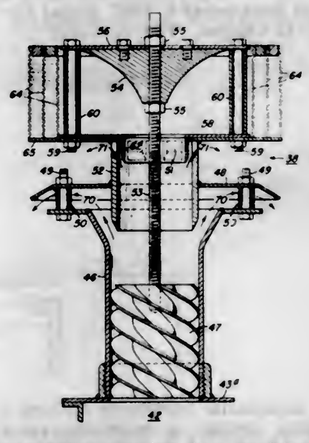


and n is an integer from 0 to 1, inclusive; Y is selected from the group consisting of H and CH_3; R is an alkyl radical of 1 to 11 carbon atoms; R', R'', and R''' are alkyl radicals of 1 to 12 carbon atoms; and the molecular weight of said ketone-ester is from about 350 to about 500.

2,594,489
PROCESS FOR THE PREPARATION OF SATURATED OXONITRILES
Tracy M. Patrick, Jr., Dayton, Ohio, assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application October 26, 1950, Serial No. 192,355
10 Claims. (Cl. 260—465.1)

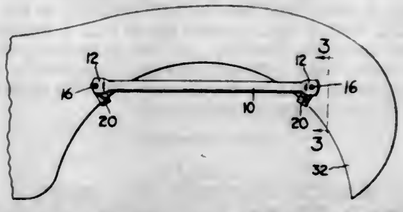
1. The process comprising the reaction of (A) a molar excess of a saturated aldehyde containing from 2 to 18 carbon atoms, inclusive, having the formula RCHO, wherein R is a saturated hydrocarbon radical containing from 1 to 17 carbon atoms, inclusive, with (B) crotononitrile, in the presence of (C) a free radical promoting catalyst.

2,594,490
APPARATUS FOR SECURING DRY STEAM
Ward S. Patterson, Chappaqua, N. Y., assignor to Combustion Engineering-Superheater, Inc., a corporation of Delaware
Application January 30, 1948, Serial No. 5,469
5 Claims. (Cl. 183—102)



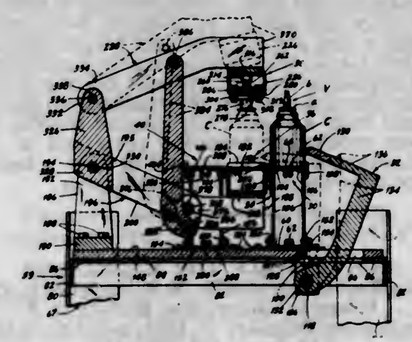
1. In a steam separator, the combination of an upright tube, means for passing steam and water mixture upwardly through said tube, spinner means in the tube for imparting to said upflowing mixture a whirling motion which throws water therefrom outwardly against the tube wall for discharge from the separator over the tube's top edge and which allows steam from the mixture to flow upwardly out of the tube's central portion, an upright sleeve of smaller diameter than said tube positioned above the tube in substantially coaxial relation thereto with the lower sleeve end spacedly projected into the upper tube end whereby said discharge water passes outside of the sleeve over the tube top and is thereby separated from said upflowing steam as same passes out of the tube's central portion upwardly through the sleeve interior, an enclosure in communication with the top of said sleeve for receiving the steam issuing therefrom and for directing same radially out of the separator in substantially horizontal flow, and screening means in the path of said horizontal flow for subjecting said separator discharge steam to a drying action which effects still further removal of moisture therefrom.

2,594,491
FENDER GUARD
Alexander M. Persons, Worcester, Mass., assignor to Persons-Majestic Mfg. Co., Worcester, Mass., a corporation of Massachusetts
Application June 13, 1949, Serial No. 98,826
2 Claims. (Cl. 280—152)



1. A fender guard comprising an elongated longitudinally bowed element flattened at its ends in general parallelism, a pivot pin at each flat, U-shaped clip pivoted on each pin by one leg of the U, a fastener on the other leg of the U to grip a vehicle fender at the edge thereof, the latter being in the U.

2,594,492
APPARATUS FOR MANUFACTURING WHIPPED CREAM
Norman J. Pfeiffer and Fred F. Suellentrop, Lemay, Mo., assignors to The Lemay Machine Company, Lemay, Mo., a corporation of Missouri
Application May 19, 1950, Serial No. 162,977
12 Claims. (Cl. 226—20)



1. In apparatus of character described: a machine for reciprocating a plurality of containers partially filled with a predetermined quantity of pasteurized cream simultaneously

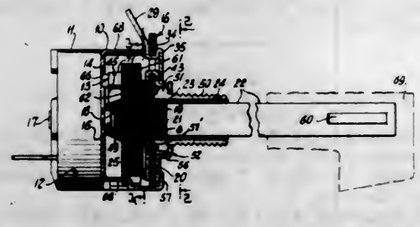
with the injection thereinto of a gas under predetermined pressure; a plate type conveyor for delivering said containers to the machine; air cylinder operable mechanism for transferring a plurality of containers from said conveyor onto a bed member normally flush with the upper surface thereof; gas injection mechanism including a sealed manifold whereon a plurality of injection assemblies is mounted; air cylinder operable mechanism for alternately lowering and elevating said manifold and the gas injection assemblies into and out of engagement respectively with the upper end of each of said containers; a continuously operating motor; a rotatable shaft supported in spaced hanger bearings and having an eccentric portion integrally formed therewith; a connecting rod the lower end of which is mounted on said eccentric portion and the upper end of which is pivotally connected to said bed member; an air cylinder operable clutch assembly including a first member having a driving connection with said motor and a second axially slidable member adapted to effect the transmission of power from the motor to said shaft; a driving connection between said motor and a combined speed reducer and transmission device adapted to complete one revolution of the output shaft of said device in approximately thirty seconds; a plate type cam rigidly secured to the projecting end of said output shaft and a master air valve operable thereby; an air pressure regulating valve; and a metering valve adapted to delay engagement and to accelerate disengagement of the clutch assembly aforesaid.

2,594,493

CIRCUIT CONTROLLING DEVICE

George O. Puerner, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

Application July 28, 1948, Serial No. 41,133
21 Claims. (Cl. 201—55)



1. A rotor for a circuit controlling device integrally molded from plastic insulating material, said rotor comprising an enlarged body portion having a flat surface generally perpendicular to the rotor axis, said surface having a plurality of lugs formed thereon, a reduced bearing portion of circular cross section protruding from one end of said body and centrally coupled thereto, and a boss protruding from the other end of said body, said boss being recessed to form a bearing support for the other end of said rotor.

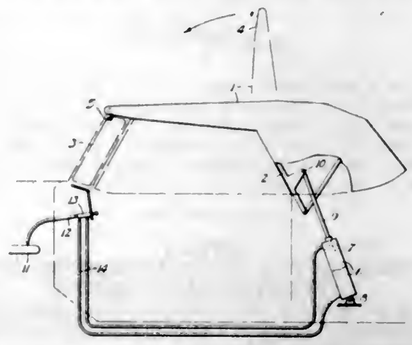
2,594,494

CONVERTIBLE TOP MECHANISM

Anton Rappl, Eggertsville, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application February 12, 1948, Serial No. 7,940
5 Claims. (Cl. 296—117)

5. Means for extending the collapsible top of a convertible automobile from a folded position to an operative position with the forward portion thereof swinging upwardly and then downwardly upon the vehicle windshield, said means comprising a pneumatic motor having a chamber with a piston therein, the chamber being mounted upon a fixed support and the piston having an upwardly extending rod for connection to the folding top, the lower end of the rod being tubular to form a dash pot chamber, a plunger carried by the motor chamber and extending through the piston into the dash pot chamber with a liquid tight fit, the lower end of the dash pot chamber



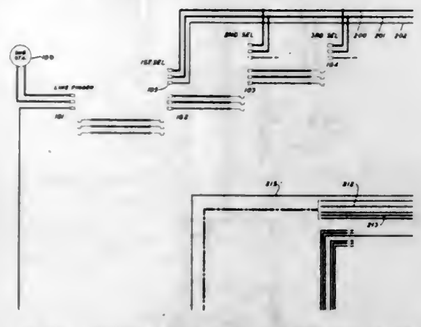
containing a liquid body into which the upper end of the plunger moves during the top extending stroke of the motor, and a resiliently mounted valving ring encircling the plunger beneath its upper end and engageable by the latter upon its movement into the liquid body for restricting the clearance about such upper end during the top extending stroke for imposing a drag during the final portion thereof while yielding from such upper end upon the reverse stroke to relieve the pneumatic motor from such drag.

2,594,495

MAGNETIC RECORDING SYSTEM FOR CALL DATA IN AUTOMATIC TELEPHONY

John B. Retallack, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 4, 1947, Serial No. 772,091
10 Claims. (Cl. 179—7.1)



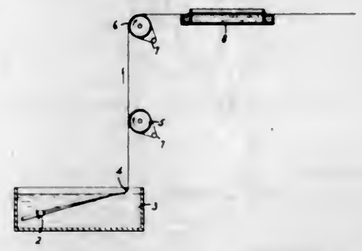
1. In an automatic telephone system, a calling line, outgoing trunks, a magnetic recorder included in each of said trunks, means under the control of said calling line for establishing a connection from said line over one of said trunks, means under the control of said connection for registering items of information appertaining to said connection, means under the control of said registering means for transmitting to the recorder said one trunk signals in accordance with the setting of said registering means, registering circuits common to said trunks, means under the control of said one trunk for connecting the recorder of said one trunk to an idle one of said circuits, and means controlled by said one circuit for reproducing said signals recorded in the recorder of said one trunk and for transmitting said signals to said one registering circuit.

2,594,496

METHOD OF MAKING ARTIFICIAL FIBERS OR THREADS FROM VISCOSE

George A. Richter, Jr., Springfield, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware

Application April 12, 1949, Serial No. 87,088
7 Claims. (Cl. 18—54)



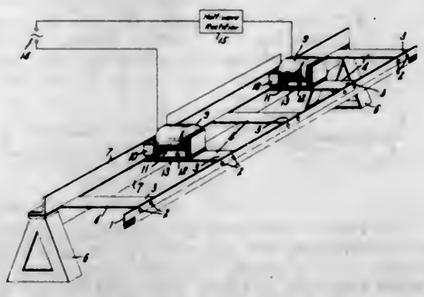
1. In the manufacture of artificial fibers from viscose, the steps which comprise extruding the viscose into an essentially aqueous coagulating medium which is not a cellulose regenerating medium and which contains from 1 to 20% by weight of acetic acid and from 5 to 30% by weight of salt selected from the group consisting of sodium sulfate, sodium acetate and mixtures of sodium sulfate and sodium acetate, the total concentration of salt and acetic acid being at least 15% by weight, withdrawing the continuous filaments of cellulose xanthate thus obtained from the bath, and stretching the filaments.

2,594,497

DOFFER COMB MECHANISM

Glen P. Robinson, Jr., Oak Ridge, Tenn.

Application October 30, 1950, Serial No. 192,922
5 Claims. (Cl. 19—106)



1. In a doffer comb mechanism, a comb member, and means for supporting and oscillating said comb member in predetermined relation to the card clothing of a carding machine, including flexible arm means for mounting said comb member in spaced relation to a fixed support, one end of said arm means being rigidly secured to said support and the other end of said arm means being free for vibratory oscillation, said comb member being secured to the free end of said arm means, and electromagnetic means cooperative magnetically with said arm means and disposed intermediate the ends of said arm means, said electromagnetic means being capable of being intermittently energized for intermittently attracting and imparting vibratory oscillation to said arm means and therethrough to said comb member.

2,594,498

COMPOSITION CONSISTING OF POLYVINYL ALCOHOL AND TRIMETHYLENE GLYCOL

Abbott M. Rohn, Detroit, Mich.

No Drawing. Application November 15, 1948, Serial No. 60,167
2 Claims. (Cl. 260—33.4)

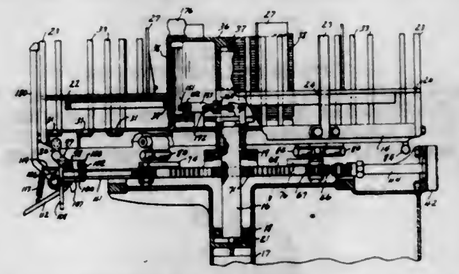
1. A resinous composition consisting of polyvinyl alcohol and from 10 to 100 per cent of trimethylene glycol based on polyvinyl solids content.

2,594,499

ROTARY INTERLEAVING APPARATUS

Conoley O. Rumph, Selma, Ala.

Application December 28, 1946, Serial No. 718,972
6 Claims. (Cl. 270—58)



1. In interleaving apparatus, a table mounted to rotate in a horizontal plane, a paper support mounted on the table to move vertically but held against rotation with respect to the table, a central rotatable exteriorly threaded drum supporting the paper support there being a threaded opening at the center of the paper support engaging said threaded drum, means to mount a plurality of stacks of paper sheets in spaced relation about the periphery of the paper support, means to remove sheets successively one at a time from the tops of the several stacks, a pawl pivotally mounted on the table in position to impart rotary motion to the central threaded drum, a striking member pivotally mounted on the table and operatively connected to the pawl to actuate it, and an adjustable stationary abutment in the path of the striking member to impart motion thereto at each rotation of the table.

2,594,500

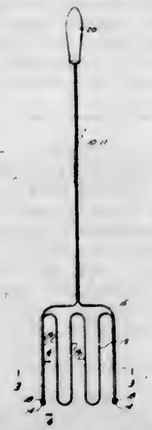
BROILING UTENSIL

Vincent J. Runnoe, Beaver Dam, Wis.

Application May 18, 1949, Serial No. 93,887
1 Claim. (Cl. 99—441)

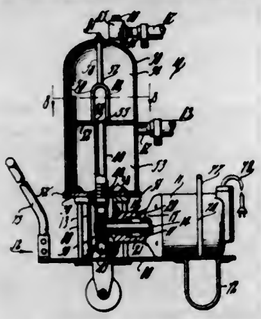
A wiener broiler of the character described comprising, a pair of handles, a pair of substantially U-shaped elements formed one on the end of each of said handles, a pair of eyes formed in the opposite ends of each U-shaped member, a pair of links one at each end of said elements, pivotal members received in each of the said eyes and in the links to pivotally connect the links to each of the U-shaped elements, and a plurality

of parallel loops extending from each eye carried by the U-shaped elements between the parallel legs thereof to hold a plurality of wieners indi-



vidually parallel to said handles, said handles being adapted to clamp the wieners in place between the elements.

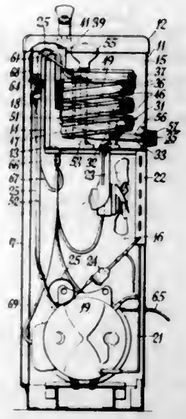
2,594,501
PORTABLE PUMP
Alois H. Ruthman, Cincinnati, Ohio, assignor to The Ruthman Machinery Company, Cincinnati, Ohio, a corporation of Ohio
Application August 20, 1948, Serial No. 45,241
7 Claims. (Cl. 103—113)



1. In a device of the class described the combination of a closed tank having a bottom, means interiorly of the tank for dividing it into a receiving compartment and a discharge compartment located one above the other, a power actuated pump secured to and depending from the tank bottom to be exteriorly of the tank, said pump having an inlet and an outlet concentric of one another, and individual concentric means for respectively connecting the said concentric pump inlet and pump outlet with the tank receiving compartment and tank discharge compartment.

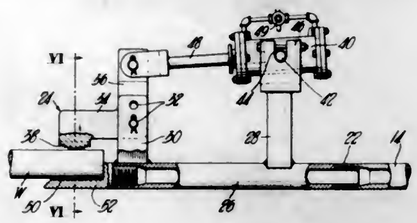
2,594,502
LIQUID COOLER AND EVAPORATOR COIL THEREFOR
Leonard J. Sahs, Hamburg, N. Y., assignor to Fedders-Quigan Corporation, Buffalo, N. Y.
Application May 23, 1949, Serial No. 94,868
3 Claims. (Cl. 62—141)

1. A liquid cooling coil comprising a helix formed of tubing wound into a series of convolutions, inlet and outlet lines of less diameter than said tubing sealed into the ends of the helix, a second tube of less diameter than the helix tubing sealed into the outlet end thereof, said second tube having an internal diameter sufficient to provide a bulb well for the power element of a refrigerant control device, said second tube having a sealed inner end, a spacer member disposed between the second tube and the internal



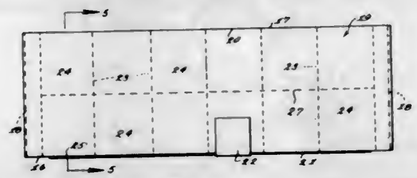
wall of the helix tubing to position the second tube adjacent the axis of the helix tubing and enable liquid to flow around the entire surface of the said second tube, and a refrigerant coil bonded to the external surface of the helix tubing and disposed at substantially diametrical regions thereof along the convolutions, said refrigerant coil having portions overlying at least a portion of said second tube, the convolutions of the helix being spaced.

2,594,503
MOVABLE JAW CHUCKING DEVICE
Gunnar Sanderson, McKeesport, Pa., assignor to United States Steel Company, a corporation of New Jersey
Application May 23, 1947, Serial No. 749,983
3 Claims. (Cl. 279—4)



1. A device for handling bar material comprising a gripping member mounted for reciprocating movement, said gripping member comprising an elongated support, a lower jaw member on the forward end of said support, said jaw member having serrated gripping surfaces on the upper side thereof, vertically disposed forward and rearward bifurcated brackets on said support, said forward bracket having a plurality of vertically spaced holes therethrough, a jaw member adapted to be adjustably mounted by a pin member disposed in certain of said holes, said jaw member having a convex serrated gripping surface disposed above the serrated surfaces of said lower jaw member, said upper jaw member having an upwardly extending arm rigidly connected thereto, a double-acting hydraulic cylinder having trunnions on its sides, said trunnions being disposed on the bifurcated sides of said rearward bracket, a piston in said cylinder, and a piston rod connecting said piston to the upwardly extending arm on said upper jaw member.
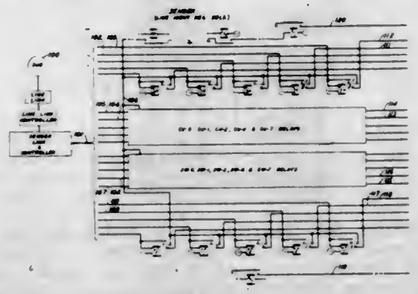
2,594,504
CARTON FOR HOLDING EGGS
Leona W. Schmirler, Wausau, Wis.
Application July 22, 1949, Serial No. 106,281
2 Claims. (Cl. 229—28)



1. A carton for holding eggs comprising an elongated hollow rectangular body having an open top, partitions secured longitudinally and at spaced intervals transversely within said body subdividing the latter into a plurality of pairs of side-by-side compartments for the support therein of eggs, a cap bridging the open top of said body and secured thereto, said cap being provided with spaced transversely and longitudinally extending tear lines subdividing said cap into a removable closure overlying each of said pairs of side-by-side compartments, each of said removable closures being provided with a tear line subdividing each removable closure into a section overlying each compartment of the adjacent one of said pairs of side-by-side compartments, and adhesive means embodying a strip having one face mounted on the inner face of each removable closure and secured thereto and having the other face provided with an adhesive for engagement with the adjacent eggs to secure the latter to said removable closure, said means comprising a pair of spaced strips each having one face provided with adhesive and each having the other face abutting against the inner face of the adjacent section of said removable closure, each section of said removable closure being provided with a pair of spaced slots for the extension therethrough of the ends of the adjacent one of said strips for securing the adhesive-provided face of each strip to the outer faces of said sections.

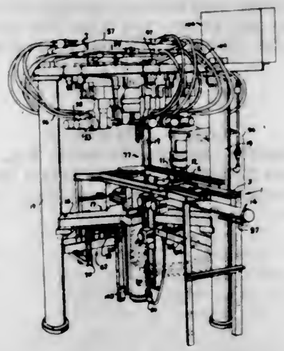
2,594,505
CALLING LINE IDENTIFICATION AND REGISTERING SYSTEM
Frederick J. Scudder, Manhasset, and Edward Vroom, Ossining, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 9, 1949, Serial No. 132,112
7 Claims. (Cl. 179—7)

1. In a telephone system, calling lines, trunks to called destinations, switches having access to said lines and to said trunks, common control means responsive to a calling condition on any one of said lines for controlling said switches according to the called destination desired by said calling line, registering means in said control means for registering the directory number and class of service of said calling line and for registering the called destination, recording means operable by said control means for recording said directory number on certain calls, visual display means operable by said control means for displaying said directory number on other calls, circuit means in said control means for comparing said class of service and said called destination, and



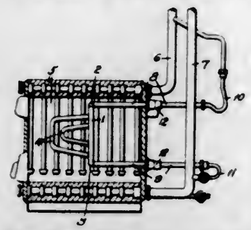
switching means controlled by said circuit means to operate only one of either of said recording means or said visual display means depending upon the result of said comparison.

2,594,506
WHEEL ASSEMBLING MACHINE
Frederick P. Sharpe, Dearborn, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application October 17, 1949, Serial No. 121,866
13 Claims. (Cl. 164—90)



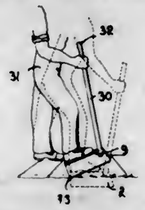
1. A machine for assembling a rim and wheel body comprising guides for a loose assembly of rim and wheel body with the wheel body resting on the rim, said guides being engageable with the rim, a feeding carriage reciprocable in a path parallel to said guides, means on said carriage engageable with the rim and wheel body to angularly position the same with respect to each other and said guides, means extending transversely of said guides comprising members engageable with the rim and wheel body and movable transversely of said guides for axially moving the rim and wheel body out of engagement with said positioning means and relatively axially moving the rim over the wheel body to form the final assembly of rim and wheel body, said members having means engageable with the rim and wheel body for centering the same and means engageable with the wheel body for angularly positioning the same.

2,594,507
HEATER
Rudolf Sigerist, Zurich, Switzerland
Application February 29, 1948, Serial No. 12,180
In Switzerland October 14, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires October 14, 1961
1 Claim. (Cl. 122—275)



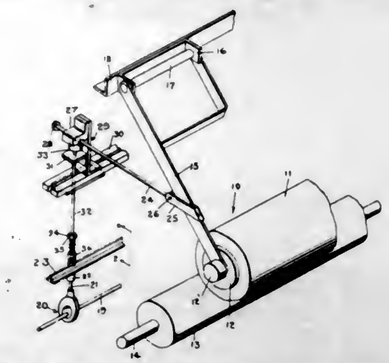
A heater for insertion in a boiler having a major and a minor axis and a water circulation system including an outflow and an inflow, said boiler having a bottom and said heater providing a tube arrangement adjustably supported within the boiler for movement along the major axis spaced above the bottom of the boiler, overlying and subdividing the fire space of the boiler and including vertically spaced horizontally disposed collecting tubes extending transversely of the major axis of the boiler, a plurality of substantially elongated U-shaped tubes in communication with and projecting forwardly of the collecting tubes, said U-shaped tubes overlying the main fire area of the boiler and including vertically spaced legs and a bight portion connecting the same, said bight portion being spaced forwardly of said collecting tubes a distance greater than the spacing between the legs adjacent said collecting tubes, and means connected to the collecting tubes and connected with the outflow and inflow of the water circulation system of the boiler.

2,594,508
LAWN EDGER
Elbert R. Sitton, Houston, Tex.
Application February 7, 1948, Serial No. 7,023
2 Claims. (Cl. 30—315)



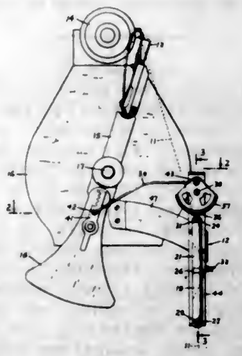
1. A lawn edger for trimming sod adjacent sidewalks including a planar blade, said blade having a front and rear surface thereon, a handle rigidly secured to said rear surface of said blade and extending upwardly from said blade, said handle being inclined with respect to the vertical in alignment with said blade, the lower edge of said blade being a cutting edge, the upper edge of said blade being vertically slit a spaced distance from the rear edge of the blade and directly in line with the front edge of the handle to form two upper portions of the blade, the front portion extending laterally of the vertical plane of said blade at an angle of substantially 90° and away from said front surface and toward the said rear surface to form a foot rest, said foot rest abutting one side of said handle, the rear portion of said blade being folded out of the plane of the blade until the top edge of said rear portion abuts said handle on the opposite side from said foot rest whereby said handle is locked in position on said blade between said foot rest and said rear portion of the blade.

2,594,509
TEXTILE DEVICE
Elmer R. Stahl, Meyersdale, Pa., assignor to Celanese Corporation of America, a corporation of Delaware
Application October 2, 1948, Serial No. 52,511
6 Claims. (Cl. 242—18)



1. In a yarn package winding device comprising a freely rotatable yarn package and driving means adapted to drive said yarn package by frictional engagement with yarn on the surface thereof, yarn package supporting means adapted to pivot freely and permit the distance between the axis of the yarn package and the axis of the driving means to increase as the yarn package windings build up, means, including a clamping device, operatively connected to said yarn package supporting means and means for intermittently operating said clamping device for intermittently halting pivotal movement of the yarn package supporting means while permitting continued rotation of the yarn package.

2,594,510
YARN TENSION DEVICE
William T. Stearn, Cumberland, Md., assignor to Celanese Corporation of America, New York, N. Y., a corporation of Delaware
Application May 2, 1950, Serial No. 159,581
12 Claims. (Cl. 242—45)



1. A yarn tension device comprising a generally elongated friction surface, means positioned at points spaced longitudinally of the friction surface for guiding the yarn generally longitudinally of the friction surface, and means positioned intermediate said aforementioned means for bringing the yarn into free contact with the friction surface, said latter means being angularly adjustable to vary the extent of free contact between the yarn and the friction surface thereby to adjust the yarn tension.

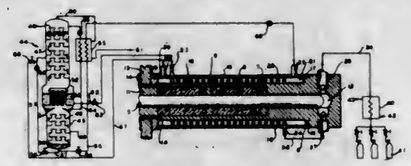
2,594,511
AUTOMATIC LATCHING MECHANISM
Frederick I. Steele, Columbus, Ohio, assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application October 28, 1948, Serial No. 57,005
5 Claims. (Cl. 292—336)



1. Latching mechanism for a closure movable between open and closed positions along a sill means comprising a bolt member pivotally mounted upon fixed structure engageable with said closure upon manual rotation at a first of said positions, resilient means urging said bolt member into engagement with said closure, trippable detent means pivotally associated with said bolt member arranged upon manual rotation of said bolt member to cause said detent means to engage said sill means and to be positioned in the path of said closure as it is moved to an opposite position, engagement of said closure with said detent means in moving to said opposite position initiating release of said detent means from said sill means and restoration of said bolt means to the influence of said resilient means for permitting re-engagement of said bolt member with said closure upon return of said closure to its first said position, and resetting means including a contact portion movable with and operatively connected to said detent means, said contact portion arranged to be moved into the path of return movement of said closure toward said initial position, said contact portion disposed such that it projects beyond the surface of said sill means in the engaged position of said detent means, said contact portion is arranged in respect to said detent means such that it is initially engageable by said closure upon said return movement for tripping said detent means and causing removal of said detent means under the influence of said resilient means from the path of return movement of said closure to thereby extend and reset said bolt member for re-engagement by said closure at said first position.

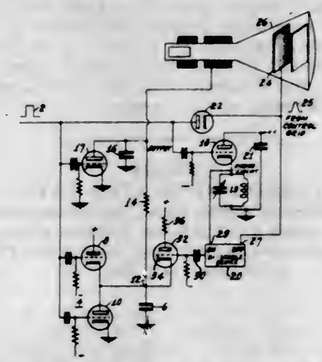
2,594,512
LIQUID PUMPING SYSTEM
Arthur E. Steele, McKeesport, Pa., assignor to Air Products, Incorporated, a corporation of Michigan
Application May 6, 1949, Serial No. 91,840
3 Claims. (Cl. 62—1)

1. Apparatus for pumping a highly volatile liquid and preventing the evolution of vapor during pumping comprising a source of supply for the liquid to be pumped, a source of supply of a cooling fluid, a pump including a pump cylinder and an intake for the cylinder, a spaced jacket surrounding the pump to form a cooling space having an entrance at one end of the cooling space and a discharge at the other end thereof, a conduit leading from the source of supply of the cooling fluid to the entrance to the cooling space, a conduit of thermal conducting material arranged in the cooling space between the entrance and discharge ends of the cooling space,



a connecting conduit leading from the source of supply of the liquid to be pumped to the conduit arranged in the cooling space, and a connecting conduit leading from the conduit arranged in the cooling space to the cylinder intake of the pump.

2,594,513
LINEARITY CONTROL SWEEP CIRCUITS
Arthur C. Stocker, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 20, 1950, Serial No. 196,585
7 Claims. (Cl. 315—26)

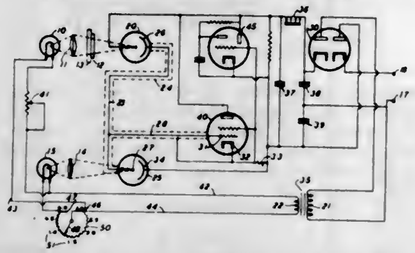


1. Apparatus for deriving a scanning voltage for scanning a beam of electrons in linear fashion comprising the combination of a first condenser across which said scanning voltage is to be developed, a resistor and a second condenser being connected in series with said first condenser so as to form a closed loop, means for discharging said first condenser in response to each of a series of pulses, means for establishing a predetermined amount of charge on said second condenser in response to each of said pulses, and means for charging said second condenser between said pulses by an additional amount dependent on the phase relationship of two signals.

2,594,514
COMPARISON TYPE DENSITOMETER
Monroe H. Sweet, Binghamton, N. Y., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
Original application April 16, 1946, Serial No. 662,529, now Patent No. 2,561,243, dated July 17, 1951. Divided and this application December 20, 1949, Serial No. 134,095
8 Claims. (Cl. 88—14)

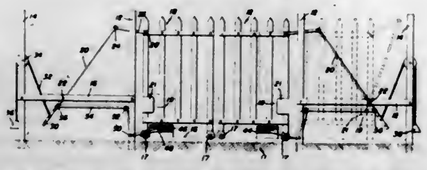
1. A comparison densitometer comprising, in combination, a primary incandescent lamp; a comparison incandescent lamp; said lamps having such characteristics that their light intensity

is logarithmically related to the electrical energy supplied; a light responsive means; mechanism effective alternately to direct upon said means light from said primary lamp through a sample whose density is to be measured and light directly from said comparison lamp; variable impedance means in series circuit relation with a source of potential and said comparison lamp; indicating means, having a substantially uniform density scale, operatively connected to said impedance



means; means, having a pair of input terminals, operative to vary the impedance of said impedance means as a function of the relative potentials of said input terminals; and switching means operable in synchronism with said mechanism to connect said input terminals alternately to the output of said light responsive means to control said variable impedance means to vary the potential applied to said comparison lamp to balance the light incident upon said light responsive means from both of said lamps.

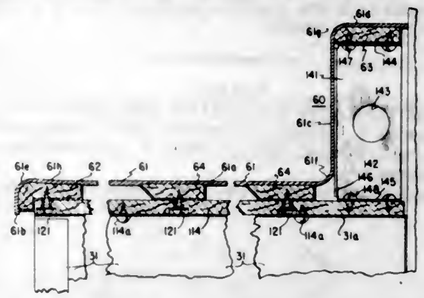
2,594,515
TREADLE OPERATED GATE
John W. Swift, Pueblo, Colo., assignor of one-half to John J. Walthour, Pueblo, Colo.
Application October 7, 1947, Serial No. 778,319
5 Claims. (Cl. 39—25)



1. A sliding crossing gate comprising a support means on opposite sides of a passageway, a gate section for each support means movable transverse said passageway between said support means, a pair of treadles disposed in said passageway and spaced laterally of the passageway from each other, an actuating lever pivoted to each support means for controlling each gate section, a connection between each lever and one of said gate sections for independently moving said sections, a further connection between each lever and the adjacent treadle for independently operating each lever.

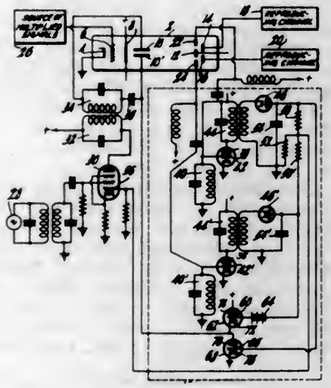
2,594,516
PREFABRICATED COUNTER SECTIONS AND ASSEMBLIES THEREOF
Thomas H. Swisher, Elmhurst, Ill., assignor to Hotpoint Inc., a corporation of New York
Application November 4, 1948, Serial No. 58,286
8 Claims. (Cl. 312—140.3)

1. An article of manufacture comprising a unitary counter section including a longitudinally extending plastic body sheet having a continuous smooth moisture-resistant outer surface, said body sheet being form-retaining and providing a substantially horizontal work platform and an upstanding backsplasher, a first longitudinally extending re-enforcing member formed of wood and disposed below and adjacent to the front of said work platform and embedded in



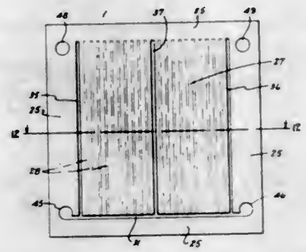
said body sheet, a second longitudinally extending re-enforcing member formed of wood and disposed behind and adjacent to the top of said backsplasher and embedded in said body sheet, and a plurality of longitudinally extending and laterally spaced-apart stringers each formed of wood and disposed below said work platform and embedded in said body sheet.

2,594,517
CENTERING AND AMPLITUDE CONTROL APPARATUS FOR CATHODE-RAY BEAMS
George C. Sziklai, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 25, 1949, Serial No. 123,374
8 Claims. (Cl. 315—21)



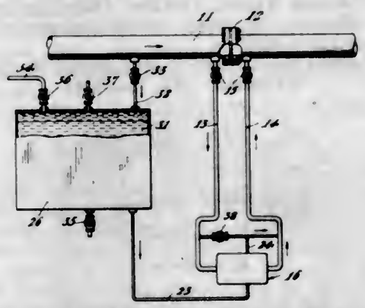
1. An apparatus for centering a beam of electrons comprising means for projecting a beam of electrons, a first error target located on one side of the rest position of said beam, a second error target located on the other side of the rest position of said beam, a first high gain amplifier having its input connected to said first target, a second high gain amplifier having its input connected to the second target, a first rectifier connected to rectify the output of said first amplifier, a second rectifier connected to rectify the output of said second amplifier, a load circuit connected between said rectifiers so that the difference between the voltage supplied by said rectifiers appears across said load circuit, a means for deflecting said electron beam in a line between said error targets, and means for connecting voltages developed in said load circuit to said beam deflecting means.

2,594,518
FILTER PRESS PLATE
Harold A. Teale, Brooklyn, N. Y., assignor to George B. Finnegan, Jr., New York, N. Y., trustee
Application June 28, 1947, Serial No. 757,803
2 Claims. (Cl. 210—195)



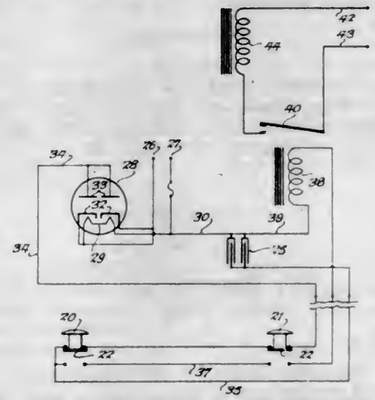
1. As an article of manufacture a filter-press plate formed of a single, integral, flat rectangular block of laminated plastic, said block being formed with an external smooth border portion and an interior rectangular drainage field portion, the drainage field being grooved on both sides with a plurality of spaced drainage grooves running from the top to the bottom of the field, the field portion being separated from the border portion along its side edges and bottom edge by a continuous rectangular U-shaped slot through the block and the top edge of the field being integral with the upper border portion, whereby said field comprises a rectangular tongue within the border portion and has limited pivotal movement relative thereto.

2,594,519
PROPORTIONING AND FEEDING APPARATUS
Walter P. Thurber, Valley Stream, and Joseph I. Montel, Jamaica, N. Y.
Application October 4, 1947, Serial No. 778,008
8 Claims. (Cl. 210—31)



1. In a device of the type described, a conduit for conveying a flow of liquid, means for developing a pressure differential in said conduit in proportion to the rate of flow of liquid therein, a reciprocal piston member, means including hydraulic connections to the different pressure sections in said conduit for moving said piston member from a normal position in a definite relation with respect to the pressure differential developed, a closed container for a solution for addition to the liquid in said conduit, means controlled by the movement of said piston member and the developed pressure differential and including other hydraulic connections from said container to the different pressure sections in said conduit for regulating the flow of said solution into said conduit in direct proportion to the quantity of liquid flowing therein, and means including a flow of said fluid through said first named hydraulic connections for mixing said solution with liquid from said conduit prior to the discharge thereof into said conduit.

2,594,520
TWO-HAND PRESS CONTROL DEVICE
Clarence C. Tiedman, Tonawanda, N. Y.
Application January 28, 1947, Serial No. 724,797
4 Claims. (Cl. 192—131)

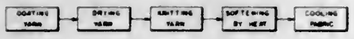


1. In means for controlling mechanism for starting the operation of a power-actuated plunger of a press having a clutch and a rod for actuating said clutch and which is yieldingly urged into clutch disengaging position, that improvement which includes an electrical condenser, a plurality of hand-operated switches having movable members yieldingly urged into normal positions, a circuit leading from a source of power to said condenser for charging the same and which circuit is completed only when the movable members of all of said switches are in their normal positions, another circuit through which discharge current from said condenser flows only when the movable members of all of said switches are moved from their normal positions into another position, a relay in said other circuit for closing a switch, a third circuit including said switch and a solenoid having a core connected with said clutch rod for moving said clutch rod into clutch-engaging position, and means for disconnecting said solenoid core from said clutch rod after said clutch rod has been moved into clutch-engaging position and for again connecting said solenoid core with said clutch rod when said solenoid core is moved into a position to again repeat the operation.

2,594,521
KNITTED FABRIC
Arthur N. Tingley, Chester, Pa., assignor to American Viscose Corporation, Wilmington, Del., a corporation of Delaware
Application April 18, 1946, Serial No. 663,106
8 Claims. (Cl. 28—73)

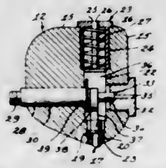
1. The method of manufacturing fabrics from yarns comprising synthetic resin fibers which

consists of the steps of conditioning the yarns for knitting by applying thereto a normally solid, wax-like substance which is convertible by heat to an at least softened condition, drying the conditioned yarns, knitting the dried, conditioned yarns to produce a fabric, subjecting all portions of the knitted fabric, immediately after the knitting operation, to dry heat to at least



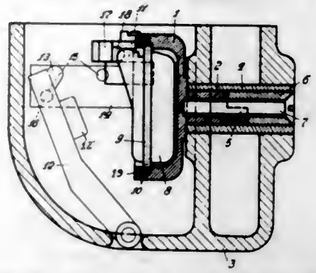
soften the heat-convertible wax-like substance, and thereafter cooling the fabric to set the softened substance in a cement-like condition to thereby bind the stitches of the fabric together and set them in the original pattern imposed by the needles during the stitch formation, and stiffen the fabric, the softening and stiffening being effected without loss of the wax-like substance from the fabric.

2,594,522
POWER-DRIVEN HAMMER
Sam Thompson, Houston, Tex.
Application October 6, 1950, Serial No. 188,728
2 Claims. (Cl. 153—48)



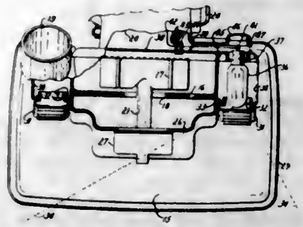
1. A hammer adapted for attachment to a source of motive power comprising a body having a work-engaging face, there being a longitudinally extending bore provided in said body having one end terminating in said work-engaging face and having the other end terminating adjacent to and spaced from the opposite face of said body, there being a counterbore extending inwardly from said opposite face of said body in communication with said bore, an anvil positioned contiguous to one end of said bore and loosely mounted therein for movement into engagement with a piece to be worked, a hammer shaft positioned within said bore and mounted therein for periodic movement into and out of engagement with said anvil to thereby urge the latter against the piece to be worked and to impart hammering blows thereto, a closure cap bridging the open end of said counterbore and supported against said opposite face of said body, a guide pin having one end extending through said closure cap into said counterbore and fixedly secured to said hammer shaft, resilient means positioned interiorly of said counterbore and supported on said guide pin for urging said hammer shaft into its position of movement in engagement with said anvil, an actuating shaft positioned transversely within said body and spaced from one side face of said hammer shaft and having one end terminating exteriorly of said body and provided with means for connection to said source of motive power, said one side face of said hammer shaft being cut away to form a flat surface, there being a longitudinally extending cam track provided within said flat surface, a camming element carried by said shaft and engageable in said cam track for periodically urging said hammer shaft out of its position of engagement with said anvil in response to the rotary movement of said actuating shaft, and a guide bushing supported on said actuating shaft and engaging said flat surface for maintaining said hammer shaft against rotation.

2,594,523
BOBBIN CASING RETAINING MEANS
Emil Urscheler, St. Gallen, Switzerland, assignor to Brutsch & Co., Zurich, Switzerland
Application November 12, 1946, Serial No. 709,266
In Switzerland February 28, 1946
1 Claim. (Cl. 112—181)



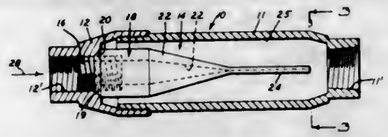
In a sewing machine having a sewing arm, a shaft rotatably supported in the arm and adapted to alternately receive rotary hooks having open and closed raceways respectively and which in turn are adapted to receive a bobbin case having a diametral slot therein, means for holding a bobbin case in either of the rotary hooks against relative rotation therein and for retaining same in the open raceway hook, said means comprising an arm pivoted on the sewing arm and having a nose thereon adapted to engage in the diametral slot in the bobbin case when supported in the closed raceway, and a retaining arm pivoted on the sewing arm and having a nose adapted to fit in the diametral slot in the bobbin case when supported in the open raceway and a projection thereon forming an abutment to limit axial movement of the bobbin case in the rotary hook, and a locking device for holding the retaining arm in either the disengaged position or engaged with the bobbin case in the rotary hook having the open raceway.

2,594,524
HEADLIGHT FOR SUCTION CLEANERS
John Edward Vance, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application November 14, 1947, Serial No. 786,053
6 Claims. (Cl. 15—324)



1. In a suction cleaner, an integral body forming a nozzle and a fan chamber, a suction passage in said body forward of the fan chamber and operatively connected to the eye of said fan, said passage being formed with a converter opening in front of the eye of said fan, said nozzle being the element of maximum width of said cleaner and said fan chamber being the element of maximum height, a reflecting chamber formed integrally with said body and laterally of said fan chamber and another chamber symmetrically formed with respect to said reflecting chamber on the opposite side of said fan chamber, ornamental louvered cover plates for each of said chambers, and a common removable closure plate forming the rear walls of said fan and reflecting chambers.

2,594,525
VALVE
Clarence B. Walden and Cut Kravagna, Los Angeles, Calif.
Application June 24, 1946, Serial No. 678,832
1 Claim. (Cl. 251—122)



A check valve comprising a barrel, a bell mounted at one end of said barrel having an annular seat therein, a nipple mounted in said bell and extending interiorly thereof, and a tubular valve member of flexible material mounted on said nipple and extending therefrom longitudinally within said barrel, said valve member being formed of a resilient flexible material and having a shoulder bearing against said seat in said bell, a relatively thick-walled cylindrical portion in the region of said nipple beyond said shoulder, a flattened relatively thin-walled end section at its end opposite the end mounted on said nipple capable of being expanded to form a tubular fluid carrying means under influence of pressure exerted by fluid entering said valve member through said nipple, and an intermediate converging section having walls tapering in thickness from said cylindrical portion to said flattened section.

2,594,526
INSECTICIDAL COMPOSITIONS COMPRISING FLUORINATED CHLORINATED CYCLIC TERPENES
George Allen Buntin and Arthur D. Lohr, Wilmington, Del., assignors to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 16, 1948, Serial No. 15,269
8 Claims. (Cl. 167—30)

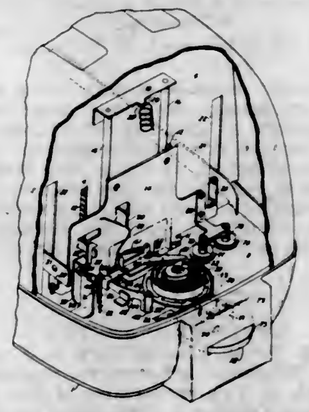
1. An insecticidal composition comprising a fluorinated chlorinated cyclic terpene and an insecticidal adjuvant as a carrier therefor, said fluorinated chlorinated cyclic terpene containing both chlorine and fluorine in total amount within the range of about 40% to about 75%, the fluorine content being about 2.6% to about 5.2% produced by substitution of part of the chlorine of a chlorinated cyclic terpene by fluorine by fluorination with a fluorinating agent selected from the group consisting of fluorine, hydrogen fluoride, and metal fluorides in the presence of a fluorination catalyst at a temperature below 300° C., said chlorinated cyclic terpene being the product of chlorination of a cyclic terpene with chlorine gas at an elevated temperature below that at which the product decomposes to a chlorine content of about 40% to 75%.

2,594,527
SPRING OPERATED TOY
Sammy Wechsler, New York, N. Y.
Application December 11, 1947, Serial No. 791,118
4 Claims. (Cl. 46—208)



1. In a toy, in combination, a body forming a chamber, a compression member to be held in the hand and to be associated with said body to compress a spring, said member being separable from said body a normally expanded spring positioned within said chamber in said body extending between said body and said member, and latching means secured to said member and engaging the wall of said body at the rear end thereof for holding said member partly within said body to compress said spring, said means having a resilient part lying outside said body and extending freely toward said body to be operated by manual pressure applied thereto when said member is held in the hand to release said body to the action of said spring, to cause said body to withdraw from said member while the latter is held in the hand as aforesaid.

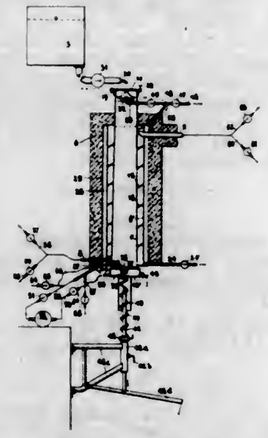
2,594,528
TOASTING MECHANISM
Harry B. White, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application July 13, 1948, Serial No. 38,532
11 Claims. (Cl. 161—1)



1. Timing mechanism comprising a thermostat, means for heating said thermostat, means biasing one part of said thermostat to a fixed position, starting means for energizing said heating means and for securing another part of said thermostat against movement, terminating mechanism for releasing said another part of said thermostat and for de-energizing said heating means, means connecting said one part of said thermostat to said terminating mechanism to operate said terminating mechanism by heat induced movement of said one part of said thermostat, said connecting means including a pivoted link having a free end connected to said terminating mechanism, a drive link connected at one end to be moved by said one part of said thermostat and to move with respect thereto, the other end of said drive link being connected to

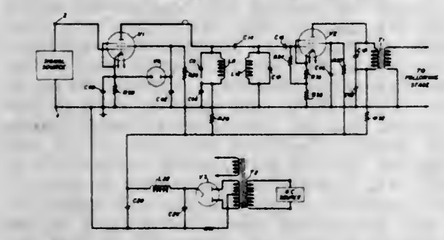
said pivoted link to transmit movement of said one part of said thermostat thereto and to move freely with respect to said pivoted link without moving the same in a direction at an angle to the direction of movement produced by said thermostat to vary the degree of movement required by said one part of said thermostat to produce a fixed degree movement of said pivoted link, and means operated by said another part of said thermostat when released from the restraint of said starting means for imparting such movement at an angle to said second mentioned link.

2,594,529
FREEZING MACHINE
Eugen Wilbushewich, Haifa, Israel
Application December 15, 1949, Serial No. 133,087
In Switzerland September 13, 1949
5 Claims. (Cl. 62—105)



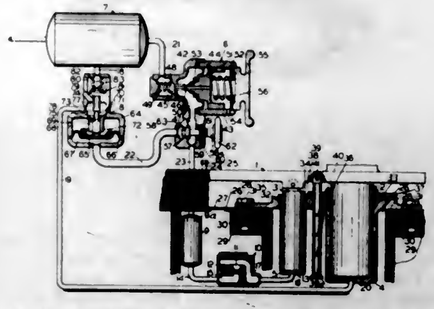
1. A freezing machine comprising an evaporator for a refrigerant capable of generating cold by evaporation; at least one oblong freezing can mounted upright within the evaporator and projecting therefrom at its upper and lower ends; a detachable bottom for the can; and lifting means including at least one compression spring adapted to raise and lower the bottom and to apply it with pressure to the lower end of the can.

2,594,530
AMPLIFYING SYSTEM
Clarence H. Young, Lincoln Park, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 2, 1948, Serial No. 52,579
11 Claims. (Cl. 179—171)



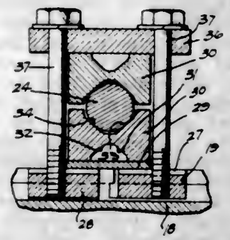
1. In a multistage amplifier, an input stage including a space discharge device comprising an anode and a cathode, a resistor connected to said cathode, a second stage including a space discharge device comprising a control grid, a voltage regulating electron discharge device, and a potential source, wherein said anode is connected to the positive side of said potential source and to said control grid, the cathode side of said resistor is connected through said voltage regulating electron discharge device to the positive side of said potential source, and the other side of said resistor is connected to the negative side of said potential source.

2,594,531
AUTOMOTIVE VEHICLE HOISTING APPARATUS
Burton S. Aikman, St. Petersburg, Fla., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application November 20, 1948, Serial No. 61,168
9 Claims. (Cl. 60—97)



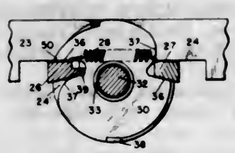
6. A fluid pressure operated hoisting apparatus comprising in combination, a hoisting member for lifting a load, two hoisting pistons connected to said member adapted to be operated by fluid under pressure for actuating same to shift said load, operator's control means for supplying fluid under pressure to and for releasing fluid under pressure from one of said pistons, a source of fluid under pressure, relay means responsive to fluid under pressure to open said source to the other of said pistons and responsive to release of such fluid under pressure to disconnect said other piston from said source and open it to atmosphere, and other operator's control means for selectively subjecting said relay means to pressure of fluid provided by the first named operator's control means or for bottling up fluid under pressure acting on said relay means.

2,594,532
BORING BAR HOLDER
Christian B. Amstutz, Clawson, Mich.
Application July 15, 1947, Serial No. 760,987
2 Claims. (Cl. 82—37)



1. A boring bar clamping device of the class described adapted for use with a lathe having a compound provided with a body rotatably mounted relatively to a lathe bed, comprising: a pair of nut forming plates slidable in a slot formed in the compound body and having a threaded opening therethrough for reception of one end of a bolt; a pair of duplicate clamping blocks, each having a boring bar receiving groove formed in the face opposed to the face of the other and provided with a pair of diagonally extended planar surfaces for engaging the periphery of a boring bar; a presser plate extended across said clamping blocks transversely thereof and projecting beyond opposite sides thereof and provided with openings for reception of a bolt; a bolt projected through each of said openings and threaded into said nut-forming plates for clamping said clamping blocks in clamping relation to a boring bar.

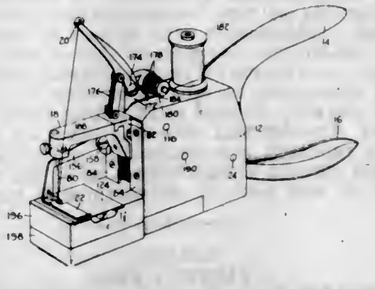
2,594,533
LOCKING HINGE
Craig C. Baker, Los Angeles, Calif.
Application January 3, 1950, Serial No. 136,530
6 Claims. (Cl. 16—144)



1. In a hinge of the character described, a pair of spaced parallel hinge elements constituting one wing of the hinge, a second pair of similar spaced hinge elements constituting the other wing of the hinge, both pairs of said elements having circular portions concentrically mounted on a common hinge pin, the circular portions of said first mentioned pair of elements positioned adjacent the inside faces of the circular portions of said second mentioned pair of elements respectively, identical, transversely-aligned cut-out sections in the perimeters of the circular portions of said pairs of elements, a transversely-extending locking block of wedge-shaped cross section mounted on one wing of said hinge in contact with the perimeters of said circular portions of said elements and adapted for engagement with said cut-out sections, said cut-out sections so located on the perimeters of the circular portions of said pairs of elements that said sections will be in registration with said locking block when said hinge is opened to a predetermined desired position, a pair of coil springs having one end attached to said locking block and the other end attached on the other wing of said hinge extending across said hinge past said hinge pin and exerting a force to pull said locking block inwardly towards said hinge pin, whereby when said hinge is opened to said desired position said locking block will be automatically pulled by said springs into said cut-out sections to lock said hinge in said position.

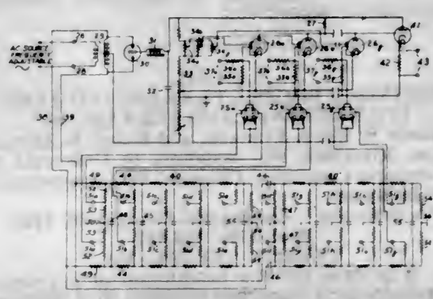
2,594,534
MINIATURE LOCK STITCH SEWING MACHINE
Sidney R. Bell, Stamford, Conn., assignor, by mesne assignments, to Irving J. Moritt, Brooklyn, N. Y.
Application May 14, 1947, Serial No. 748,106
17 Claims. (Cl. 112—169)

1. A miniature hand holdable handle-operated sewing machine comprising a relatively flat upright housing, a stationary handle and a movable handle projecting in generally horizontal direction from one end of said housing in the plane of the housing, rotatable drive mechanism enclosed in said housing, said movable handle being geared to said mechanism through an overrunning clutch turning on a horizontal shaft disposed transversely of the housing, whereby successive partial movements of said handle provide continued cumulative motion of the shaft,



and lockstitch sewing mechanism including a needle and thread take-up mechanism for an upper thread, means to move the needle with a rectilinear vertical movement, a shuttle and bobbin for a lower thread, a horizontal arm-like table enclosing said shuttle and bobbin, said sewing mechanism extending from the end of the housing opposite the handles and being driven by the aforesaid drive mechanism.

2,594,535
MULTIPLE CHANNEL ELECTRONIC SWITCH
Sidney Bertram, Los Angeles, Calif., assignor to the United States of America as represented by the Secretary of the Navy
Application April 26, 1944, Serial No. 532,915
1 Claim. (Cl. 250—27)



A multiple channel electronic switch comprising a plurality of pairs of switching tubes, each of said switching tubes containing at least an anode, a cathode, and a control grid, means connecting the cathodes of the tubes on each said pairs of switching tubes together and the anodes of the tubes in each of said pairs of switching tubes together, biasing means for rendering said switching tubes normally non-conducting, a switch tube for each of said pairs of switching tubes, each of said switch tubes having at least an anode, a cathode, and a control grid, means connecting the control grids of said switch tubes to the anodes of said pairs of switching tubes respectively, a plurality of resistances each having one end connected to the anodes of one of said pairs of switching tubes and the other end connected to the cathode of said associated switch tube, a

plate load resistance for each switch tube having one end thereof connected to the anode of said switch tube, first and second sources of anode power connected to said plate load resistances and to the cathode of said switching tubes respectively, whereby conduction of said switching tubes renders said switch tubes non-conducting, a source of alternating current, phase shifting means connected to said source of alternating current producing a plurality of individualized alternating current voltages having incremental phase displacements with respect to each other and magnitudes in excess of that of said biasing means, and means for impressing said individualized alternating current voltages on the grids of said plurality of pairs of switching tubes respectively, whereby said switching tubes are sequentially rendered non-conducting when the alternating current voltage impressed on the grids of each of said pairs of switch tubes is near zero.

2,594,536
FISHING ROD
Raymond H. Beyer, South Bend, Ind., assignor to South Bend Bait Company, South Bend, Ind., a corporation of Indiana
Application February 23, 1946, Serial No. 649,683
21 Claims. (Cl. 43—22)



1. A fishing rod comprising an elongated flexible rod unit including a fitting at one end thereof, a handle unit including a reel seat and a rod socket, said fitting being longitudinally slidable in said socket with its inner end adapted to overlie said reel seat to clamp the base plate of a fishing reel upon said reel seat, and means for locking said units together in reel-plate clamping longitudinal adjustment.

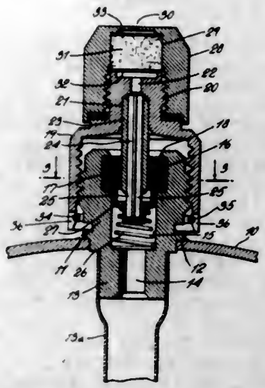
2,594,537
RESINOUS PRODUCTS FROM AROMATIC POLYKETONES AND POLYAMIDES
Herman S. Bloch, Chicago, and Ralph B. Thompson, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 26, 1946, Serial No. 706,067
7 Claims. (Cl. 260—65)

1. A process for the production of a resinous material which comprises reacting at a temperature of from about 50° to about 300° C. a mixture of an aromatic polyketone having the structure of an aromatic hydrocarbon containing at least two nuclear acyl substituents per molecule, said acyl substituents being of the class characterized as hydrocarbon carbonyl groups, with a polyamide selected from the group consisting of urea, oxalic acid diamide, citric acid triamide and a hydrocarbon polycarboxamide in which the carboxamide radicals are all directly substituted on the same hydrocarbon radical, in which all of the amido nitrogen atoms are N-hydrogen substituted, and which apart from the carboxamide groupings —CON= consist of carbon and hydrogen, said mixture of polyketone and polyamide containing from 1 to 2 keto groups per two amide hydrogen atoms, the condensation of the keto and amido groups being the sole reaction involved in the formation of said resin.

2,594,538
METHOD OF MAKING CONFECTIONERY PRODUCTS
Jorgen Brabaek, Copenhagen, Denmark, assignor to Aktieselskabet "Volund," Copenhagen, Denmark, a Danish company
No Drawing. Application February 4, 1950, Serial No. 142,523. In Denmark July 19, 1943
7 Claims. (Cl. 99—134)

1. The method of making a caramelized confectionery product from fruit pulp, fruit juice, and the like, which comprises forming a preconcentrated solution of the material, adding flavoring materials, vitamins and coloring agents, and thereafter passing the resulting mixture in a thin layer on a supporting surface through a heating zone, heating the inner side of said layer to a temperature of 80° to 160° C. for a short period of time sufficient to caramelize the mixture, and simultaneously passing non-preheated air adjacent the outer surface of said layer.

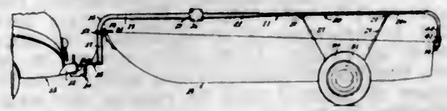
2,594,539
INSECTICIDE DISPENSER
Gregory Brown, Bridgeport, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut
Application September 8, 1945, Serial No. 615,221
1 Claim. (Cl. 299—95)



A fluid valve including in combination an externally threaded tubular member having one end adapted for connection with a container, the inside of said member having a large bore portion at its other end and a smaller bore portion at its said container end and an intermediately sized bore portion therebetween, a coil spring in said intermediate bore portion, a cup in said intermediate bore portion with its bottom towards said spring and having a bottom recess fitting inside the adjacent end of said spring, an elastically deformable sealing ring retained in said large bore portion with an end facing and in sealing engagement by the rim of said cup so that the latter forms a check valve for said bore, a cap for said member with a tubular skirt having internal screw threads fitting the external threads on said member, said cap having a fluid passage extending from the inside of said skirt and opening to the atmosphere through an orifice small enough to eject a spray, a tube projecting from said passage through said skirt and adapted to be press-fitted through said sealing ring, and a longitudinally fluted rod positioned through said tube and positioned in said recess in said cup bottom, said rod being adapted to press said cup from said ring when said cap is screwed towards

said member and to release said cup when oppositely screwed, said skirt being long enough to extend beyond the threads on said member toward its said container end and having an internally facing annular recess having a split spring ring clipped therein and with at least one longitudinally extending slot in said skirt intersecting said recess so that said ring may be unclipped from said recess by tool action working through said slot, said ring being sized to engage and jam against the end convolution of the external threads on said member towards said container end and to permit limited screw action inwardly and returning backwardly as required to unseat and seat the rim of said cup on said sealing ring.

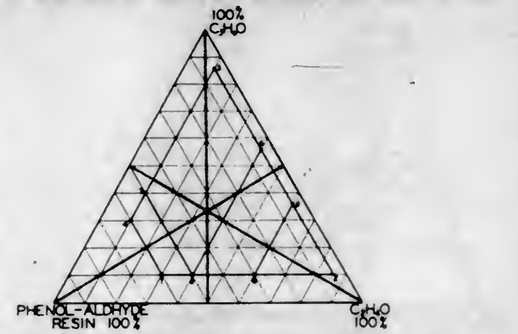
2,594,540
ADJUSTABLE TRAILER FOR BOATS
Alvin D. Cole and Frank J. Kowalewski, La Crosse, Wis.
Application December 10, 1949, Serial No. 132,321
4 Claims. (Cl. 280—34)

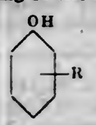


1. A trailer for a boat, said trailer having a front end and a rear end and comprising a plurality of spaced longitudinal members, a longitudinal tongue, a plurality of transverse connecting members secured to said longitudinal members and said tongue, a tubular sleeve at the front end of said trailer positioned to receive telescopically therein said tongue, means mounted on said tubular sleeve for securing and supporting one end of the boat, the rear ends of said longitudinal members extending downwardly and having means thereon adapted to secure and support the other end of the boat, said latter means also bearing against the boat so as to clamp the boat between the latter means and the supporting means mounted on said tubular sleeve, a pair of cross members telescopically positioned with respect to each transverse connecting member, one cross member projecting from each end of said transverse connecting member, a downwardly extending supporting leg secured to the projecting end of each cross member, a pair of wheels, means for securing said supporting legs to said wheels, means for adjusting the distance between the support means for the boat adjacent the tubular sleeve and the support means for the boat at the rear ends of the longitudinal members, and means for adjusting the distance between the wheels.

2,594,541
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
Application December 22, 1949, Serial No. 134,579
6 Claims. (Cl. 252—331)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifier including a cogeneric mixture of a homologous series of glycol ethers of oxyalkylation-susceptible, fusible, organic solvent-soluble, water-insoluble, phenol-aldehyde resins; said cogeneric mixture being derived exclusively from phenol-aldehyde resins, glycide, ethylene oxide and propylene oxide in such weight proportions so the average composition of said cogeneric mixture stated in terms of initial reactants lies approximately within the truncated trapezoidal pyramid identified as E, F, G, H—I, J, K, L in Figure 4, with the proviso that the percentage of glycide is within the limits of 2% to 25% by weight and that the remaining three initial reactants, recalculated to a 100% basis, lie approximately within the trapezoidal area defined approximately in Figure 3 by points 1, 2, 3 and 4; said resin being derived by reaction between a difunctional monohydric phenol and an aldehyde having not over 8 carbon atoms and reactive toward said phenol; said resin being formed in the substantial absence of trifunctional phenols; said phenol being of the formula



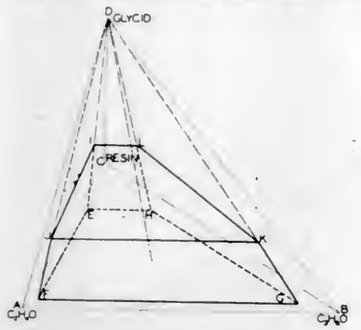


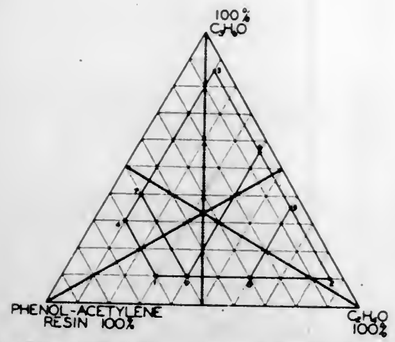
in which R is a hydrocarbon radical having at least 4 and not more than 14 carbon atoms and substituted in the 2,4,6 position.

2,594,542
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser, Webster Groves, Mo., assignors to Petrolite Corporation, Ltd., Wilmington, Del., a corporation of Delaware
Application December 22, 1949, Serial No. 134,581
6 Claims. (Cl. 252—331)

1. A process for breaking petroleum emulsions of the water-in-oil type characterized by subjecting the emulsion to the action of a demulsifier including a cogeneric mixture of a homologous series of glycol ethers of phenol-acetylene resins; said cogeneric mixture being derived ex-

clusively from oxyalkylation-susceptible, fusible, organic solvent-soluble, water-insoluble, phenol-acetylene resins, glycide, ethylene oxide and propylene oxide in such weight proportions so the average composition of said cogeneric mixture stated in terms of initial reactants lies approximately within the truncated trapezoidal pyramid identified as E, F, G, H—I, J, K, L in Figure 4, with the proviso that the percentage of





glycide is within the limits of 2% to 25% by weight and that the remaining three initial reactants, recalculated to a 100% basis, lie approximately within the trapezoidal area defined approximately in Figure 3 by points 1, 2, 3 and 4; said resin being derived at least in part by reaction with an acetylenic hydrocarbon so as to introduce an alternate acetylenic radical as the linking structure between phenolic nuclei.

2,594,543
ADJUSTABLE PLUMBER'S LEVEL
Charles B. Douglas, Charlotte, N. C.
Application August 6, 1949, Serial No. 108,910
1 Claim. (Cl. 33—213)

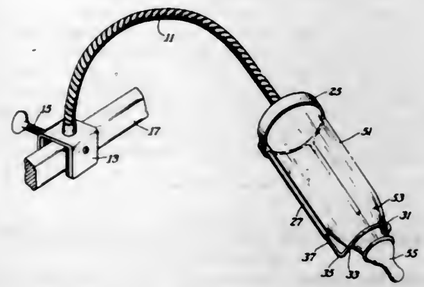


In a plumber's level having an elongated one-piece rectangular frame having top, bottom and end portions which are T-shaped in cross-section and having webs spaced from each of its end portions and joining the top and bottom portions, the combination of the bottom portion having an enlargement therein provided with a threaded bore whose axis is at right angles to the longitudinal axis of the frame, an adjusting screw threadably mounted in said bore, said screw having a screw driver slot in its lower end and having a lock nut threadably mounted on the screw immediately above said enlargement.

2,594,544
PRODUCTION OF ACTIVATED CARBON FROM DISTILLERS MASH
Philip J. Elving, West Lafayette, Ind., Edward Shoemaker, Bernard L. Kabacoff and Irving Nageiburg, Philadelphia, Pa., assignors to Publicker Industries Inc., Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application June 11, 1947, Serial No. 754,074
6 Claims. (Cl. 252—425)

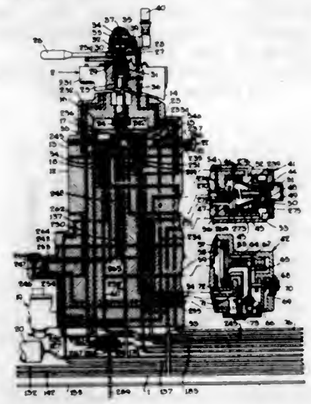
1. A process for the preparation of an activated carbon having good gas-adsorptive capacity which comprises concentrating a spent distiller's mash to a volume at which the solids content is about 25–80%, adding to the concentrated mash an activator comprising essentially a compound containing a Group II cation and being capable of decomposing under carbonizing conditions to give off a gas, said activator being added in an amount corresponding to about 20–30% by weight of the solids present in the mash, heating the mixture with agitation in the absence of mineral acid to remove the water, thereafter drying the material by heating at about 100–250° C., grinding the dried material thus obtained, mixing the ground material with about 10–35% of its weight of water to produce a more or less plastic mass, extruding and cutting the plastic mass to give individual particles of suitable shape, heating the particles at a temperature below about 120° C. to remove excess water, thereafter carbonizing by heating the particles at about 600–1200° C. until gas evolution has ceased, and thereafter cooling, washing and drying the material.

2,594,545
NURSING BOTTLEHOLDER
Fred M. Emens, Sea Breeze, N. Y.
Application September 28, 1946, Serial No. 700,067
4 Claims. (Cl. 248—102)



1. A nursing bottle holder comprising an adjustable support, an abutment member secured to said support for receiving the base end of a nursing bottle, a pair of tubular members rigid with and extending forwardly from said abutment member in substantially parallel relation to each other, a curved yoke member for engaging the forward end of a nursing bottle, and a pair of rod-like members secured to said curved yoke member and slidably seated in said tubular members.

2,594,546
PROTECTION APPARATUS FOR FLUID PRESSURE BRAKES
Erik G. Erson, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application December 20, 1949, Serial No. 133,986
11 Claims. (Cl. 303—18)

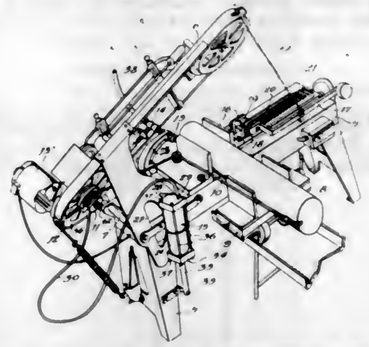


1. In a locomotive brake equipment, in combination, a brake pipe, a safety control pipe, a brake valve device having a brake release and charging position and also a brake application position, said brake valve device having a passage which is open to atmosphere in said release and charging position and closed off in said application position, an emergency application valve device comprising a poppet valve normally closing connection between said safety control pipe and said passage and also a piston valve having a normal position in which fluid under pressure may be supplied from said brake valve device to said brake pipe at a selected charging rate and to said safety control pipe at a relatively restricted rate, said piston valve being operative in response to a reduction in pressure of fluid in said safety control pipe at a certain rate to another position in which the supply of fluid under pressure to said brake pipe and said safety control pipe is cut off, said brake pipe is connected to atmosphere, and said poppet valve is actuated by said piston valve to another position in which said safety control pipe is connected to said passage, and means for reducing pressure of fluid in said safety control pipe at said certain rate.

2,594,547
FABRIC MATERIAL PROVIDED WITH PARAFFIN COATING
Karl A. Fischer, Washington, D. C.
No Drawing. Application May 14, 1948, Serial No. 27,100
4 Claims. (Cl. 117—168)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

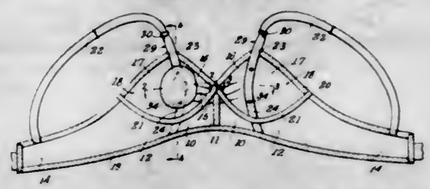
1. A coated fabric carrying a fine microcrystalline film of a mixture of a synthetic paraffin obtained as a solid by-product in the hydrogenation of carbon monoxide according to the Fischer-Tropsch synthesis and of a member of the group consisting of polyvinyl ethers and polyvinyl esters as a plasticizer for said paraffin, said paraffin having a melting point in excess of 100° C., whereby said coated fabric is rendered capable of being laundered in boiling water.

2,594,548
AUTOMATIC CONTROL FOR MACHINES
Francis S. Flick, Chicago, Ill., assignor of two-thirds to M. M. Flick and one-third to N. Reedy
Application May 31, 1946, Serial No. 673,652
9 Claims. (Cl. 29—68)



1. In a cutting machine for cutting an elongated work piece into shorter lengths, work-feed control means comprising, an air operated piston and cylinder one of which is substantially stationary and the other is movable, a valve member for directing compressed air into and out of said cylinder, and a slidable push rod mounted in alignment with a work piece and the valve member, said push rod being adapted to be moved by contact with a work piece moving into operative position to operate the valve member to exhaust compressed air from the cylinder to lower said first mentioned movable member while a portion of the work piece is being cut off, said push rod receding from the valve member when the cut-off portion of the work piece falls away from the push rod, to stop said exhaust action whereby compressed air will be introduced into the cylinder to elevate said first mentioned movable member.

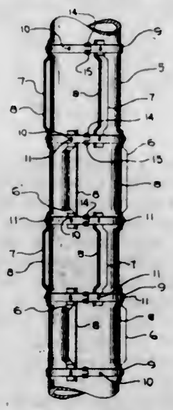
2,594,549
BRASSIÈRE
Iris Flores and Juliet Kellard, Hollywood, Calif.
Application February 16, 1950, Serial No. 144,398
2 Claims. (Cl. 2—42)



1. A shoulder-strap-supported brassière, comprising centrally disposed front portions connected by a seam at the middle front of the brassière, laterally disposed front portions connected to the respective centrally disposed front portions at generally vertical seams on each side of the seam at the middle, said laterally disposed front portions each having an extension to extend around the side and back of the wearer, a binding tape superposed on and stitched along the inner face of the lower edge of the four mentioned portions, the portions connected by the vertical seams constituting breast-supporting cups, a silken and non-stretchable friction-minimizing tape stitched to the inner face of each cup and covering the vertical seam between the central and lateral portion comprising each said cup, stitching connecting the lower end of

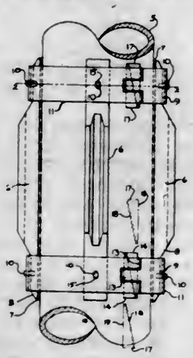
each silken tape to the binding tape, an integral loop provided on the upper end of each silken tape and said loops extending beyond the upper edges of the cups, and shoulder straps connecting the loops and the mentioned side and back extensions, said shoulder straps and non-stretchable silken tapes, thereby, constituting support means for the brassière that extend from the binding tape at the lower edge of the brassière.

2,594,550
MULTISECTION PIPE PROTECTOR
Fred Morgan Gist, Monahans, Tex.
Application March 15, 1950, Serial No. 149,685
6 Claims. (Cl. 166—4)



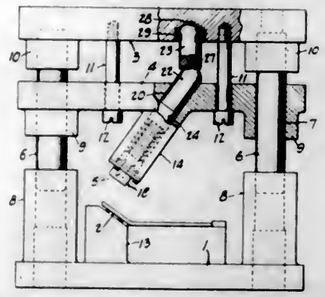
1. A well pipe centralizer assembly comprising a plurality of lengths of centralizers annularly spaced on the well pipe and arranged in longitudinally adjacent series; a plurality of retaining bands each engaging the centralizers of adjacent series at their respective ends, the bands and centralizers having inner faces of resilient dielectric material; and means for progressively tightening the bands about the centralizers.

2,594,551
CENTRALIZER AND METHOD OF ATTACHING
Fred Morgan Gist, Monahans, Tex.
Application March 15, 1950, Serial No. 149,686
2 Claims. (Cl. 166—4)



1. A pipe centralizer comprising a plurality of rigid members annularly spaced and longitudinally disposed on the pipe, said members having bases of resilient dielectric material and having reduced end portions with extending pins, a pair of retaining bands faced with resilient dielectric material and having openings for receiving the pins, and means whereby the bands are secured about the reduced ends and the pipe and tensioned by distorting the resilient material.

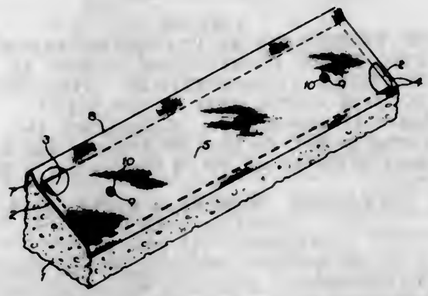
2,594,552
ANGULAR PIERCING TOOL
Neil B. Granberg, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application February 2, 1948, Serial No. 5,745
2 Claims. (Cl. 164—86)



1. A tool assembly of the class described, comprising a die for supporting a workpiece, a platen disposed to move bodily toward and away from the workpiece in the cycle of a punching operation, an intermediate platen disposed between said first named platen and said die and disposed to move in the direction of movement of said first named platen, a punch unit carried by said intermediate platen with the punch thereof disposed to move at an acute angle to the direction of movement of said intermediate platen and toward and away from the workpiece, means to limit the movement of said intermediate platen toward the work short of completion of the movement of said first named platen toward the work and at a position of alignment between said punch and die, means connecting said platens to effect carriage of said second platen by said first platen and having a lost motion to provide for continued movement of said first platen after said second platen is stopped by said limiting means, and means carried by said first named platen and universally engaging said punch to force the same angularly toward the workpiece upon continued movement of said first named platen after the intermediate platen has reached the limit of its movement toward the workpiece.

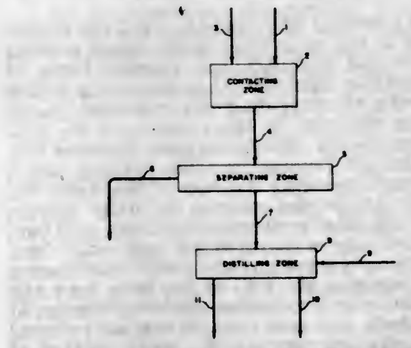
2,594,553
SPONGE ELEMENT AND BACKING THEREFOR FOR REMOVABLE ATTACHMENT TO A MOPHEAD
Nathaniel Bryant Greenleaf and Leonard C. Webster, Toronto, Ontario, Canada, assignors, by direct and mesne assignments, to Sponge Products Corporation, Chicago, Ill.
Application December 21, 1948, Serial No. 66,453
2 Claims. (Cl. 15—244)

1. A mopping element for removable attachment to a mop head comprising as a complete unit an elongated block of sponge material having a bottom working face and an upper backing-receiving face, a substantially flat sheet metal plate adhesively secured to said backing-receiving face and extending substantially the entire length of said block and having the longitudinal edge portions thereof lying flat on said backing-receiving face with the edges of said portions exposed and free of edgewise penetrating contact with the sponge material, said plate being of an area less than the area of said backing-receiving face and defining along at least the longitudinal edges thereof appreciable borders of sponge material free of and deformable out of the plane of said backing plate, a flexible cloth sheet adhered over said plate and to said sponge borders at the longitudinal edges of said plate, said sponge borders upon deforming under pressure away from the plane of said plate in a direction to strain the the bond between said plate and sponge drawing said flexible cloth adhered thereto in a direc-



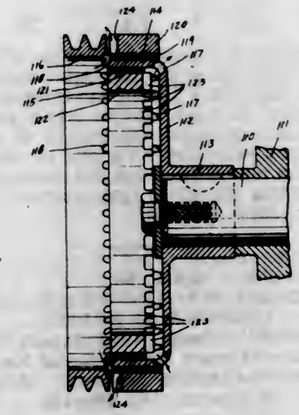
tion to draw said plate against said sponge, and screw-threaded attaching means located centrally on said plate between said longitudinal plate edges and spaced longitudinally of said plate and exposed through said sheet in position for connection with a mop head on selection of said element, said screw-threaded attaching means being surrounded by backing plate areas disposed transverse the axis of the screw threads of said attaching means adapted to be brought into clamping relation at spaced points with an overlying mop head under screw pressure applied through said attaching means while leaving the longitudinal edges of said plate free of rigid connection with the mop head.

2,594,554
PROCESS FOR CONCENTRATING HYDROGEN FLUORIDE
Olaf M. Hansen, Chicago, and Carl B. Linn, Riverside, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 30, 1950, Serial No. 198,466
6 Claims. (Cl. 23—153)



1. A process for concentrating hydrofluoric acid which comprises contacting an aqueous solution of hydrogen fluoride with another substantially anhydrous liquid hydrogen halide in sufficient amount to form a more concentrated hydrofluoric acid layer and an aqueous hydrogen halide layer, and separating said more concentrated hydrofluoric acid from said aqueous hydrogen halide layer.

2,594,555
VIBRATION DAMPER
James A. Hardy, Indianapolis, Ind., assignor to Schwitzer-Cummins Company, Indianapolis, Ind., a corporation
Application March 18, 1949, Serial No. 82,241
4 Claims. (Cl. 74—574)



1. In a vibration damper including a radially extending driving plate having an annular series of spaced air ports and a cylindrical flange, an energy converting medium carried by said flange substantially coextensive therewith, an annular inertia member mounted upon said medium, said medium acting to resiliently resist angular displacement of said member relative to said flange, and a series of air displacing vanes formed on said member extending outwardly to effect a circulation of cooling air thereover for dissipating heat from the medium during operation of the damper.

2,594,556
PROCESS FOR THE PURIFICATION OF DERIVATIVES OF PHENOXYACETIC ACID
Gilbert Spencer Hartley, Fulbourne, England, assignor to Pest Control Limited, Bourn, England, a British company
No Drawing. Application September 15, 1950, Serial No. 185,145. In Great Britain September 19, 1949
7 Claims. (Cl. 260—521)

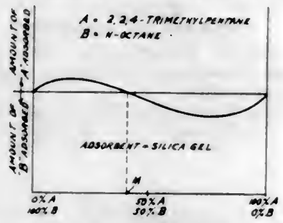
1. A process for the manufacture of derivatives of phenoxy-acetic acid in a substantially odourless condition which comprises treating a not more than slightly acid solution of a crude phenoxy-acetic acid derivative selected from the group consisting of crude chloro-phenoxy-acetic acid and salts and esters thereof and crude chloro-methyl-phenoxy-acetic acid and salts and esters thereof with sufficient of a permanganate to remove the odour while leaving the phenoxy-acetic acid derivative substantially unaffected.

2,594,557

PURIFICATION OF ALIPHATIC HYDROCARBONS

Alfred E. Hirschler, Drexel Hill, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey

Application January 5, 1949, Serial No. 69,343
12 Claims. (Cl. 260—676)



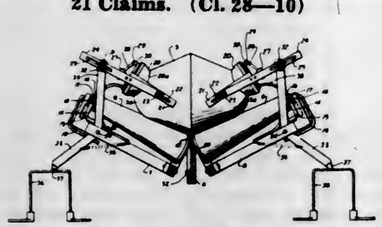
1. A process of separating two paraffin hydrocarbons having the same molecular weight which comprises subjecting a saturate mixture of such hydrocarbons to treatment in liquid phase with an adsorbent consisting essentially of silica gel, thereby selectively adsorbing one of said hydrocarbons, and separating from the silica gel a fraction containing the other hydrocarbon in a more nearly pure state.

2,594,558

METHOD AND MACHINE FOR MANUFACTURING HAT BODIES

Manfred T. Hoffman, Newburyport, Mass.

Application January 6, 1949, Serial No. 69,444
In Great Britain January 7, 1948
21 Claims. (Cl. 28—10)



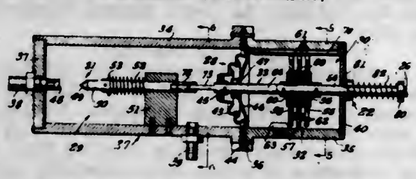
1. In the process of manufacturing hat bodies the steps of causing a forming block to rotate, of winding a plurality of layers of a carded web on said rotating block to form a felt blank thereon, and of hardening at least a portion of said felt blank by damp heat and friction while said blank is being carried on said block and while said block is being rotated.

2,594,559

FUEL LINE VALVE LOCK

Lester M. Hopkins, Los Angeles, Calif.

Application November 10, 1948, Serial No. 59,339
2 Claims. (Cl. 70—242)



1. A lock device for a flow-controlling valve having a non-rotational axially movable stem, a rotational axially movable shaft extending in alignment with said stem, a swivel connecting the stem and shaft, a fixed housing through which the connected ends of the stem and shaft extend, said shaft having an elongated extension beyond the housing, a set of combination lock discs provided on the shaft adjacent its connection to said stem and residing within said housing, a key extending into the interior of the housing intermediate the length thereof, and means on the extension of the shaft to move the same both rotationally and axially to move the lock discs from a position beyond one end of the key to a position beyond the other end to, thereby, move the valve and stem thereof from an open position of the valve to a closed position, said shaft being rotational in both said positions.

2,594,560

LOW-TEMPERATURE POLYMERIZATION OF ETHYLENIC COMPOUNDS USING AS INITIATORS COMPOSITIONS COMPRISING SODIUM AZIDE AND AN OXIDANT

Edward G. Howard, Jr., Wilmington, Del., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 27, 1950, Serial No. 158,610
10 Claims. (Cl. 260—80)

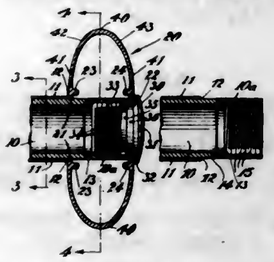
1. In the addition polymerization of ethylenically unsaturated monomers subject to addition polymerization, the improvement wherein said monomer is polymerized in aqueous dispersion by contact wtih an initiator system comprising azide ion and an oxidant thereof of the class consisting of periodate, hypochlorite, permanganate, bromate, and ceric ion, the latter two in acidic dispersion.

2,594,561

LADDER OF LIGHTWEIGHT METALS

Joseph Huck, Tenafly, N. J., assignor to The Patent Scaffolding Co., Inc., Long Island City, N. Y., a corporation of New York

Application June 3, 1948, Serial No. 30,924
2 Claims. (Cl. 228—58)



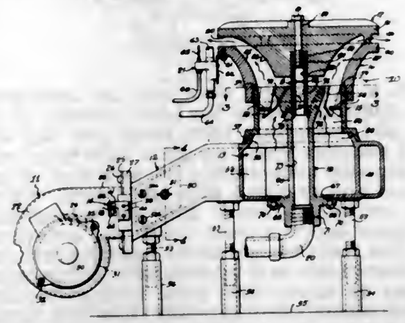
1. In a ladder of light weight metal, the combination of a rail of general lentil shape contour having central openings, one opening being of larger diameter than the other opening, a hollow rung having an outer diameter corresponding to the larger diameter of the opening of the rail, and having an end abutting against the inner surface of the wall having the other opening, and a flanged shaft engaging the bore of the rung, and having its flange abut against the outer surface of rail at the smaller diameter opening, said bore being internally screwthreaded and said shaft being externally screwthreaded, said shaft having a collar engaging the wall of the rung bore and the wall forming the smaller diameter opening of the rail shell, and said rung having an external shoulder abutting against the outer surface of the wall of the rail shell having the larger diameter opening.

2,594,562

FORCED DRAFT GAS BURNER

James H. Jackson, Detroit, Mich.

Application August 4, 1949, Serial No. 108,600
6 Claims. (Cl. 158—99)



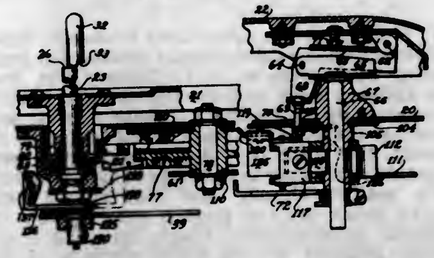
1. A forced draft gas burner comprising an air container having an upwardly directed air conduit connected thereto, a power-driven air blower having its discharge connected to said air container, a hollow hearth structure connected to said air conduit and having an upwardly directed cavity therein communicating with said air conduit, a gas jet device including a gas conduit disposed within said air conduit and defining an annular air passageway therebetween having its outlet discharging outwardly into said cavity, and a baffle structure mounted over said cavity in spaced relationship therewith and having a peripheral burner gap therebetween.

2,594,563

AUTOMATIC PHONOGRAPH

Carl G. Johnson, Chicago, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois

Application January 19, 1946, Serial No. 642,141
13 Claims. (Cl. 274—10)



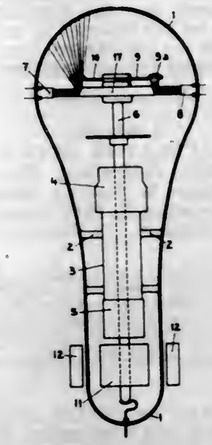
1. In an automatic phonograph, in combination, a spindle comprising a main portion, an offset portion and an intermediate portion, said spindle including a record supporting step and a vertically movable shoulder in vertically spaced relation at the lower and upper ends of said intermediate portion, said intermediate portion being conformed to permit the lowermost record of a stack of records resting on the step with the intermediate portion and offset portion extending through their central openings, to be moved out of alignment with the offset portion and into alignment with the main portion, said shoulder preventing displacement of the record above the lowermost record, and an operable element extending upwardly through the main portion of the spindle and operatively engaging said shoulder for moving the shoulder vertically into a plurality of positions to adapt the spindle for records of different thickness.

2,594,564

REVOLVING ANODE ROENTGEN RAY TUBE

Hans Kehrli, Zurich, Switzerland

Application June 6, 1950, Serial No. 166,429
In Switzerland December 16, 1948
4 Claims. (Cl. 313—56)



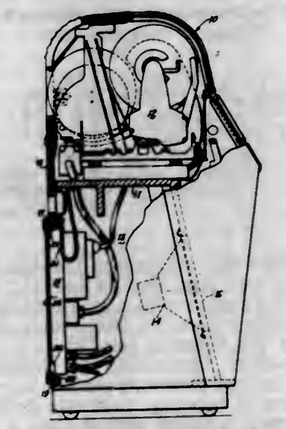
1. In a Röntgen or X-ray tube having two cathodes and a revolvable anode coacting with the cathodes and reflecting the rays in the desired direction; a disc rotatably disposed in the inner space of the tube in a plane perpendicular to the path of the reflected rays, the disc having one aperture coacting with the reflected rays, the speed of the disc being synchronized with the speed of the anode and determining the intervals of the pulses of the rays issuing from the anode.

2,594,565

CABINET FOR SOUND REPRODUCING EQUIPMENT

Mahlon W. Kenney, Oak Park, Ill., assignor to J. P. Seeburg Corporation, Chicago, Ill., a corporation of Illinois

Application September 23, 1949, Serial No. 117,388
4 Claims. (Cl. 175—298)



1. A cabinet for sound reproducing equipment having a generally vertical door pivotally mounted on the cabinet to swing outwardly, a box-like chassis having an open side and carrying electronic and electrical elements on both sides of its side opposite said open side, said door having

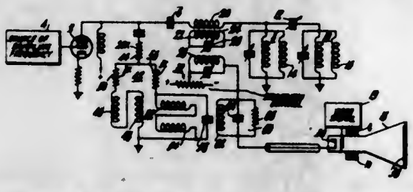
an opening and said chassis being mounted on said door with its open side registering with said opening, and a readily removable cover over said opening and said open side whereby the electronic and electrical elements within the chassis are readily available from the exterior of said cabinet for adjustment and replacement by removing said cover and the electronic and electrical elements on the exterior of said chassis are readily available for adjustment and replacement by moving said door to open position.

2,594,566
CALCULATOR DEVICE
Elmer G. Kesling, Bloomfield, Mo., assignor of one-half to Gladys M. Kesling, Bloomfield, Mo.
Application November 25, 1949, Serial No. 129,245
15 Claims. (Cl. 235—74)



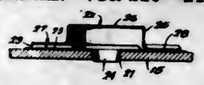
1. In a calculator mechanism including spaced rotatable addition and subtraction dials each including a gear, and dial interrelating elements, in combination, a detent releasably maintaining said dials against rotation in their respective positions, said detent being biased into its position maintaining said dials against rotation, said detent comprising a pivotally mounted member having a plurality of spaced extensions, each of said extensions being adapted for restraining engagement with a respective movable element connected to a respective dial, said extensions being disposed different distances from the pivotal axis of the detent member whereby a predetermined amount of rotation of any dial in making a computation is effective to release all dials of higher number.

2,594,567
COLOR TELEVISION
Vernon D. Landon, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 28, 1950, Serial No. 187,225
8 Claims. (Cl. 315—22)



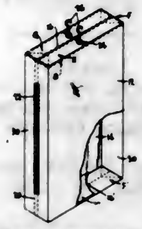
1. Apparatus for controlling the color balance of a cathode ray tube that is adapted to reproduce a colored image with a single beam of electrons, the different colors being successively reproduced as the beam is rotated at a predetermined frequency comprising in combination a goniometer having first and second pairs of coils for generating a rotating magnetic field of sampling frequency, a tuned circuit that is mounted so as to intersect said rotating magnetic field, said tuned circuit being resonant at the frequency of said rotating magnetic field and being movable with respect to said first and second coils, said latter circuit being coupled so as to control the intensity of said beam.

2,594,568
FILTER UNDERDRAIN
Joseph P. Lawlor, Ames, Iowa
Application October 22, 1949, Serial No. 122,975
3 Claims. (Cl. 210—145)



1. In a filter tank structure, an underdrain plate extending across the lower portion of the tank, said underdrain plate being provided with spaced openings therethrough, a baffle plate resting upon said underdrain plate over each of said openings and provided with an integral tapered sleeve extending freely through the opening therebelow and to a point below said underdrain plate, the walls of said sleeve tapering inwardly and downwardly as it extends through the opening, and an upper baffle plate having depressed portions secured to said lower plate and having raised portions between said depressed portions to provide laterally-extending discharge openings.

2,594,569
GARMENT BAG
Benjamin A. Levitt, Los Angeles, Calif., assignor to A. L. Siegel Co., Inc., New York, N. Y., a corporation of New York
Original application February 27, 1947, Serial No. 731,206. Divided and this application May 27, 1950, Serial No. 164,806
2 Claims. (Cl. 150—1)

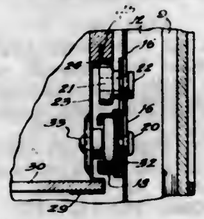


1. A garment bag comprising a tubular sheath adapted to have a substantially rectangular cross-section when open so as to define front, back, side and end walls, said sheath having a longitudinal seam with an opening therein, a linear seam securing the edges of said sheath at one end thereof, the outer portions of said linear seam engaging quadruple thicknesses of said longitudinally seamed sheath, and said sheath being turned inside out and given a substantially rectangular cross-sectional shape, the parts of said sheath engaged by the outer portions of said linear seam being tucked in and under the end walls proper when said sheath is opened to rectangular cross-section.

2,594,570
ISOMERIZATION OF ALPHA-BETA UNSATURATED CARBOXYLIC ACIDS
Carl B. Linn, Riverside, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 28, 1950, Serial No. 198,050
9 Claims. (Cl. 260—537)

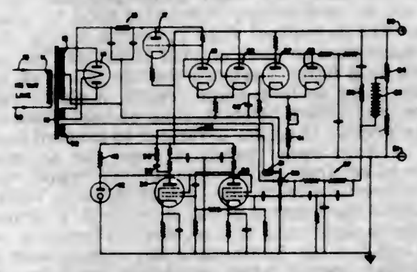
1. A process which comprises reacting a cis alpha-beta unsaturated carboxylic acid in the presence of a catalyst comprising essentially a cycloalkanone at an isomerization temperature and recovering the resultant trans alpha-beta unsaturated carboxylic acid.

2,594,571
DRAWER FIXTURE
Gustave E. Lundberg, Chicago, Ill., assignor to The Seng Company, a corporation of Illinois
Application April 12, 1946, Serial No. 661,792
1 Claim. (Cl. 312—343)



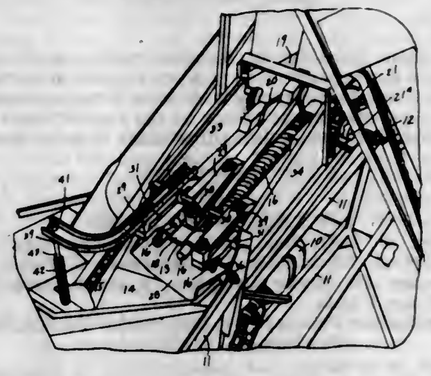
A metal fixture for a drawer, comprising, a plate forming part of the side wall of a drawer and having a vertical face extending longitudinally of the drawer, said plate having an outwardly extending top flange whose under side forms a rail to ride upon an inwardly extending supporting roller, an outwardly extending antifriction roller journalled on the rear portion of said plate to ride upon a fixed supporting rail, said plate forming the lower part of the side wall of a drawer and the top flange being provided with an upwardly extending rib adapted to fit into a groove in the lower edge of a superposed wood drawer side with the inner faces of the wood side and the plate being in substantially the same plane.

2,594,572
VOLTAGE REGULATOR
Frank J. Lupo, Hackensack, N. J., assignor to Chatham Electronics Corporation, Newark, N. J., a corporation of New Jersey
Application June 5, 1951, Serial No. 230,059
6 Claims. (Cl. 323—22)



6. An electronic voltage regulator circuit comprising, a source of direct current power, an electron discharge device having a control element connected in series arrangement between the source and a load circuit, a voltage sensitive circuit including a voltage reference element connected across the load circuit for sensing a variation of load voltage above or below a desired voltage value, a direct current amplifier for amplifying said voltage variations having its input connected to the voltage sensitive circuit and its output connected to the control electrode in the series electron discharge device, an inverter comprising a set of vibrating contacts controlled by an alternating current supply for converting said voltage variations into a series of pulses the polarity of which depends upon the polarity of the variation of load voltage, an alternating current amplifier with its input connected to the inverter for amplifying the pulses, a rectifier connected to the output of the alternating current amplifier for producing a direct current having a polarity which is the same as the polarity of the variation of load voltage, and a control circuit connected to the output of the rectifier comprising a cathode resistor which is common to both the direct current amplifier and the control circuit for changing the gain of the direct current amplifier.

2,594,573
CORN RAKE ATTACHMENT
Howard K. Marlin, Milroy, Ind.
Application November 9, 1949, Serial No. 126,370
2 Claims. (Cl. 130—5)

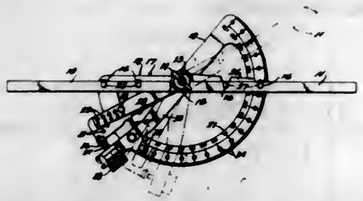


2. In a corn picking machine including a husking bed, a snapped corn chamber positioned rearwardly thereof, a hopper positioned forwardly of said bed, a wagon elevator disposed laterally of said hopper and communicating therewith, and a series of husking rolls rotatably mounted in said bed and positioned longitudinally thereof; a corn rake attachment comprising a plurality of elongated corn moving members disposed in vertical spaced relation to said rolls, rotary driving means connected adjacent the rear ends of said members for imparting a to and fro swinging motion thereto whereby corn on said rollers is moved forwardly towards said hopper during the to portion of said to and fro motion, means extending transversely of said bed in vertical spaced relation thereto and having a pin and slot connection with the forward ends of said elongated members for translating the rotary motion imparted to the rear ends of said members into an elliptical motion at the forward ends thereof, and means for urging corn in said hopper towards said wagon elevator during the fro portion of said to and fro motion, said last mentioned means comprising a bar connected to that member nearest said wagon elevator and extending angularly forwardly thereof into the area defined by said hopper, and an element including resilient means depending from the forward end of said bar and being operably associated with corn in said hopper during said fro portion of said to and fro motion of said members, said element having vertically adjustable means for varying the distance which it depends from said bar.

2,594,574
PROTRACTOR
George B. Marsden, Chicago, Ill.
Application November 2, 1950, Serial No. 193,636
6 Claims. (Cl. 33—75)

1. A protractor comprising a frame, three levers pivoted on the frame on a common axis,

means for connecting one of the levers to the frame in any one of a plurality of positions corresponding to predetermined angular intervals, the second and third of the levers being formed with series of openings therethrough to register



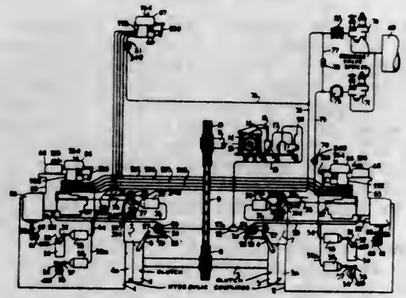
in pairs in different angular positions of the levers corresponding to smaller angular intervals, and a rotatable micrometer type screw connecting said one of the levers to the second lever to provide a fine angular adjustment therebetween.

2,594,575

CONTROL MECHANISM

Harry C. May, East McKeesport, and Roy R. Stevens, Forest Hills, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

Application February 10, 1944, Serial No. 521,798
26 Claims. (Cl. 192—3)



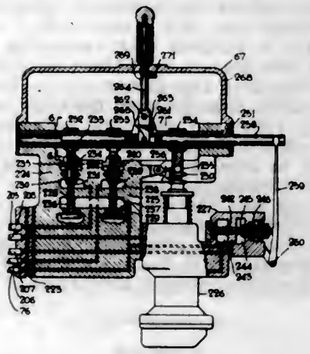
1. In combination, a fluid motor operable upon release of fluid under pressure from one passage and supply of fluid under pressure to a second passage to one position and operable upon release of fluid under pressure from said second passage and supply of fluid under pressure to said one passage to another position, one valve means controlled by pressure of fluid in a first chamber and operable upon an increase in such pressure to a certain degree to supply fluid under pressure to said one passage and operable to release fluid under pressure from said one passage upon a reduction in pressure in said chamber to a lower degree, a second valve means controlled by pressure of fluid in a second chamber and operable upon an increase in such pressure to a certain degree to supply fluid under pressure to said second passage and operable to release fluid under pressure from said second passage upon a reduction in pressure in said second chamber to a lower degree, an operator's control device having a first position for supplying fluid under pressure to said one chamber and for releasing fluid under pressure from said second chamber and having a second position for supplying fluid under pressure to said second chamber and for releasing fluid under pressure from said one chamber, choke means arranged to restrict flow of fluid under pressure to each of said chambers to delay obtaining the said certain pressure therein for a chosen interval of time after movement of said control device, and means providing for a more rapid release of fluid under pressure from each of said chambers.

2,594,576

FLUID PRESSURE CONTROL APPARATUS

Harry C. May, East McKeesport, and Roy R. Stevens, Forest Hills, Pa., assignors to Westinghouse Air Brake Company, a corporation of Pennsylvania

Original application February 10, 1944, Serial No. 521,798. Divided and this application December 28, 1944, Serial No. 570,104
5 Claims. (Cl. 137—78)



1. A control system comprising in combination, two separate control devices each comprising a rotary valve contained in a chamber and having a fluid conducting communication open to the seating face of said rotary valve and arranged to be charged with fluid under pressure which will act on said rotary valve and tend to unseat same, two individual fluid pressure supply pipes one connected to each of said chambers for supplying fluid under pressure thereto to act on said rotary valve to hold same seated, a check valve in the connection between each of said pipes and the respective chamber arranged to prevent backflow of fluid under pressure from the chamber, a single control device operable to supply fluid under pressure from one of said pipes to both of said fluid conducting communications, a connection in each of said control devices between said fluid conducting communication therein and the respective rotary valve chamber providing for flow of fluid under pressure from the fluid conducting communication therein to the respective rotary valve chamber, and a check valve in each of said connections arranged to prevent flow of fluid out of the respective chamber to the connection with the respective fluid conducting communication.

2,594,577

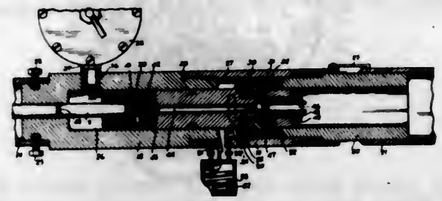
PUMP AND MOTOR THEREFOR

Arthur E. McFarland, Houston, Tex., assignor to McFarland Manufacturing Corporation, Houston, Tex., a corporation of Texas

Application December 21, 1948, Serial No. 66,435
17 Claims. (Cl. 121—150)

1. A motor adaptable for connection to a rod for intermittently reciprocating same, comprising a housing, a pressure responsive member in the housing connectable with a rod, said member dividing the interior thereof into a plurality of compartments, one of which is a variable capacity

pressure compartment, vent means actuated by movement of said member to vent said pressure compartment at the limit of the power stroke, a means yieldingly urging the pressure responsive member in a direction opposed to the power stroke, a pressure dome with a fitting therefor



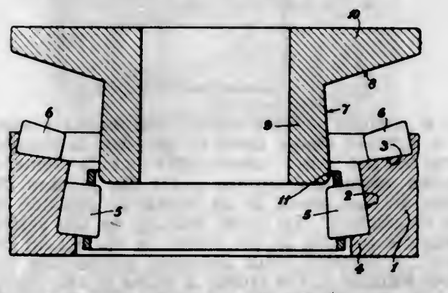
through which a pressure fluid may be supplied to the dome at a predetermined rate, and means for establishing communication between the pressure compartment and the pressure dome when the pressure within the dome reaches a predetermined value.

2,594,578

TAPERED ROLLER BEARING

David McNicoll, Solihull, Birmingham, England, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application November 4, 1949, Serial No. 125,429
In Great Britain March 23, 1948
2 Claims. (Cl. 308—174)



1. A self-contained tapered-roller bearing comprising a one-piece outer bearing member having two conical roller tracks one being a main radial-load track having a relatively small included apex angle and the other being a thrust track having a relatively large included apex angle, a one-piece inner bearing member comprising an axially-extending portion at one end having a conical race track the largest diameter of which is at the outer end of said portion, and an outwardly-extending radial flange at the other end having a conical thrust track surface, and two rows of tapered rollers between the respective pairs of opposed tracks of the two members with their larger ends outwardly of their smaller ends and respectively adjacent the outer end of said axially-extending portion and the outer portion of said outwardly-extending radial flange, the outer end of the axially-extending portion of the inner bearing member having a diameter larger than the clearance diameter at the inner ends of the cooperating rollers such that said outer end of the axially-extending portion is engaged past the inner ends of said cooperating rollers by elastic deformation so that in assembled relationship of the bearing parts said inner and outer bearing members are interlocked in the axial direction by means of the tapered rollers.

2,594,579

POLYSTYRENE INTERPOLYMERS CONVERTIBLE TO THE INFUSIBLE AND INSOLUBLE STATE

Emil E. Novotny, Prospectville, and George Karl Vogelsang, La Mott, Pa., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 14, 1948, Serial No. 44,402
6 Claims. (Cl. 260—79.7)

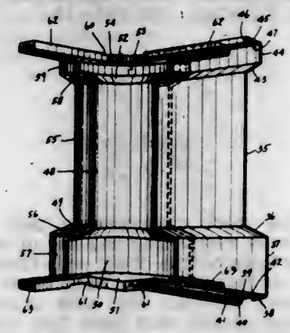
1. An interpolymer consisting essentially of styrene and another substance from the group consisting of mono-vinyl phenols, mono-vinyl thiophenols, amino styrenes, mono-vinyl acetates hydrolized after interpolymerization to replace ester groups with hydroxyl groups, nitro-styrenes reduced after interpolymerization to replace nitro groups with amino groups, and mono-vinyl halides hydrolized after interpolymerization to replace halogen atoms with hydroxyl or amino groups, said hydroxyl, amino, or sulfhydryl groups, as the case may be, being present in said interpolymer to the extent of not less than one such group per 100 original styrene molecules, said interpolymer being soluble and fusible and being convertible to the insoluble and infusible state via the agency of cross-linking or curing agents.

2,594,580

CASKET CORNER CONSTRUCTION

Benjamin F. Paul, Elwood, Ind.; Mildred H. Paul administratrix of said Benjamin F. Paul, deceased

Application February 9, 1948, Serial No. 7,267
4 Claims. (Cl. 27—10)



1. A casket comprising side walls and corner structures, the side walls having top and bottom edges provided with inwardly and oppositely facing channels, the corner structure having horizontally disposed top and bottom flanges interdigitating with the top and bottom channels of the side walls.

2,594,581

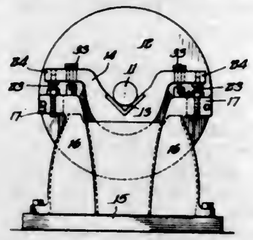
BALANCE TESTING MACHINE ROTOR MOUNTING

Clyde H. Phelps, Springfield, Ill., assignor, by mesne assignments, to Gisholt Machine Company, Madison, Wis., a corporation of Wisconsin

Application July 26, 1946, Serial No. 686,415
5 Claims. (Cl. 73—66)

1. In a device of the class described, a rigid bearing support member comprising a central body portion having arms extending horizontally in opposite directions from the opposite sides of the body portion, said body portion having a transverse upwardly facing bearing groove for

receiving a cylindrical shaft end of a rotor to be tested and aligning itself therewith, a downwardly facing substantially concave cup member carried on each arm, the corresponding cup members being mounted on said arms at a substantial distance from the center of the groove, said cup members lying in a common vertical plane at right angles to the longitudinal axis of the bearing groove substantially midway of



the length of the groove, a pedestal member having spaced upwardly facing substantially concave cup members in vertical alignment with the downwardly facing cup members, said upwardly facing cup members lying on substantially the same level, and a spherical bearing ball of substantially smaller curvature than that of said cup members disposed in and between each pair of vertically aligned cups.

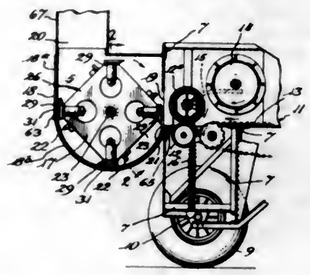
2,594,582
SPRING LATCH
Bert A. Quinn, St. Paul, Minn.
Application October 6, 1947, Serial No. 778,088
8 Claims. (Cl. 292—18)



1. A spring catch comprising a pair of jaws, means pivotally supporting one end of said jaws, gripping portions on the other ends thereof, said jaws being engageable with each other in frictional contact between the ends thereof, and spring means urging said jaws into contacting relation.

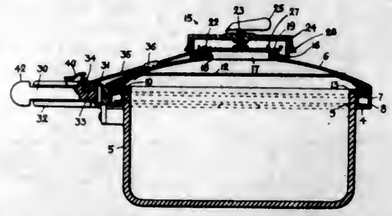
2,594,583
CROP CUTTING AND DELIVERY UNIT FOR FORAGE CUTTERS
Martin A. Richardson, Racine, Wis., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application August 11, 1948, Serial No. 43,674
6 Claims. (Cl. 146—107)

1. A knife assemblage adapted for use in apparatus of the class described, comprising a shaft adapted to be rotatably supported, a pair of spaced apart spiders attached to said shaft, at least one retainer member supported upon said shaft intermediate said spiders, a plurality of circumferentially disposed knife blades supported by said spiders and said retainer member, means for releasably attaching each of said blades to said retainer member, said means including a pair of axially engageable and disengageable members, one of which is attached to one of said blades and the other of which is attached to said retainer member, said pair of members, when engaged, positively locking the associated blade against



relative radial movement, and releasable means for connecting each of said blades to said spiders.

2,594,584
PRESSURE COOKING UTENSIL
Sanford E. Richeson and Joseph A. Allegro, New York, N. Y., assignors of one-third to Louis C. Huber, Ridgewood, N. J.
Application February 25, 1947, Serial No. 730,791
5 Claims. (Cl. 220—44)



1. A pressure cooking utensil comprising a vessel of a circular shape open at the top; a circular cover for the vessel; cooperative locking elements on the vessel and on the cover for locking the cover on the vessel in its operative position by the rotation of the cover relative to the vessel; a handle secured to the vessel; a handle on the cover; a vertical pivot pivotally connecting the cover handle to the cover; a valve in the cover; the cover having an opening for the valve, the valve comprising a flexible plate seated with its rim upon the edge of the cover opening, pressure means applied to the central portion of the plate for pressing the plate against its seat on the edges of the opening, the rim of the plate being capable of being bent upwardly by the vapor pressure in the vessel when said pressure reaches a predetermined value; an elongated member mounted axially slidably on the cover and operatively connected at one end to the cover handle, the other end of the elongated member engaging the rim of the plate on the side thereof facing the cover for bending upwardly the rim of the plate thereby releasing the vapor pressure in the vessel when the cover handle is pivoted away from the vessel handle.

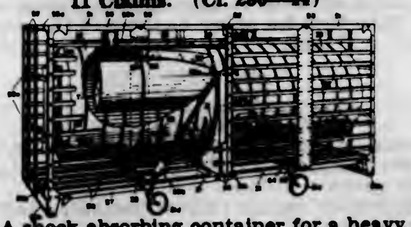
2,594,585
FRACTIONATING APPARATUS
John A. Ridgway, Jr., Texas City, Tex., assignor to Pan American Refining Corporation, Texas City, Tex., a corporation of Delaware
Application October 31, 1946, Serial No. 707,025
10 Claims. (Cl. 261—95)

1. A fractionating column packing cell structure comprising a hollow polyhedron having substantially planar laminated walls, each of said walls comprising a plurality of foraminous sheets produced by a multiplicity of nested polyhedrons, each polyhedron having one open face and each alternate polyhedron having its open face reversed with respect to the next nested polyhedron, and openings through the individual foraminous sheets of sufficient size to prevent capil-



lary closure thereof by reflux liquid during the operation of the column, the adjacent sheets of each wall being in capillary contact with each other and the outside face of each wall being adapted for capillary contact with an adjacent cell structure, thereby to provide tortuous passages for the flow of vapor through said cell structure and for the flow of liquid about the walls of said cell structure.

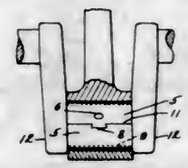
2,594,586
SHIPPING CONTAINER
Rudy F. Ries, Beechhurst, N. Y., assignor to Edo Corporation, College Point, N. Y., a corporation of New York
Application November 15, 1948, Serial No. 60,119
11 Claims. (Cl. 220—44)



7. A shock absorbing container for a heavy object, consisting of a crate-like structure having at least two of its opposite sides each comprised of a plurality of flexible members, said members being maintained substantially parallel with respect to each other by the connection therewith of a plurality of crossing elements, thereby to form a multiple spring side panel which flexes as a unit particularly in the plane of said panel, and means within said structure to support the object on said panels whereby when the container is dropped, the momentum of the object is at least partly resisted by the flexure of the said side panels, the last said means comprising a vertical bulkhead disposed normally to the planes of said multiple spring side panels, each perpendicular side edge of said bulkhead being secured to one of the said crossing elements to which the said flexible members are connected, thereby placing the weight of the object upon said panels, and downwardly extending footing at the opposite ends of the container whereby there is effected a suspension of the object between the footings by means of said panels.

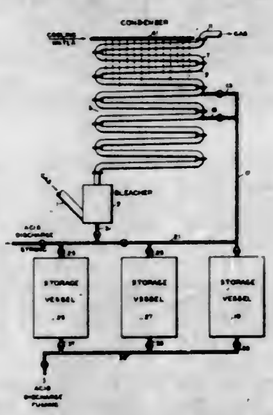
2,594,587
BEARING
John A. Riordan, Kermit, Tex.
Application November 18, 1946, Serial No. 710,672
1 Claim. (Cl. 308—237)

In a bearing construction having a journal pin or the like with enlarged portions at its ends which preclude endwise assembly of a bearing member thereon, and a split bearing surrounding said journal pin, the improvement which comprises; a replaceable two part sleeve disposed between the journal and bearing member, the parts of the sleeve being identical each part having free edges angularly disposed 180° apart and lying in substantially the same plane, edges of the parts being adapted to abut along straight lines diametrically opposite on the journal pin, each part of the sleeve having a tongue exten-



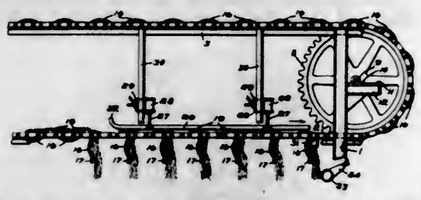
sion at one of its edges and a groove at the other, the tongue and groove being disposed centrally between the ends of the sleeve and shaped so that the tongue of one part fits the groove in the other, the total angular length of each part being in excess of 180 degrees and the thickness and resilience being such that the parts may be sprung over the journal pin into operative engagement, and means securing at least one of the parts to the journal pin preventing relative movement between the sleeve and journal pin.

2,594,588
METHOD OF PRODUCING FUMING NITRIC ACID
John E. Rothrock, Newark, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application June 19, 1947, Serial No. 755,536
10 Claims. (Cl. 23—157)



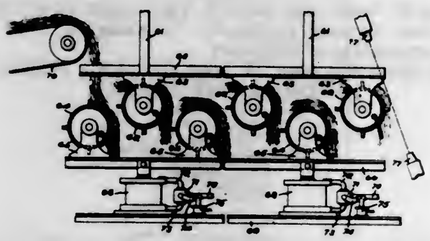
1. A method whereby concentrated clear nitric acid and fuming nitric acids of varying nitrogen oxide content can be simultaneously produced which comprises introducing into a bleacher a hot gaseous mixture comprising vaporous nitric acid and a substantial amount of gaseous oxides of nitrogen; passing the gas through the bleacher and upwardly into a condenser in countercurrent flow with the condensate of said gas to form oxide-enriched fuming nitric acid in the condenser; and withdrawing an oxide-enriched fuming nitric acid from an intermediate point in the condenser.

2,594,589
METHOD AND APPARATUS FOR BLENDING FIBER
Leslie A. Runton, Dracut, Mass., assignor to J. P. Stevens & Co. Inc., New York, N. Y., a corporation of Delaware
Application May 25, 1949, Serial No. 95,356
14 Claims. (Cl. 19—146)



3. The method of blending fibre which consists in continuously advancing the fibre in sheet form horizontally, periodically dividing the leading portion of the advancing sheet of fibre into successive adjoining sections, and causing the divided sections to continue advancing but in a downward direction.

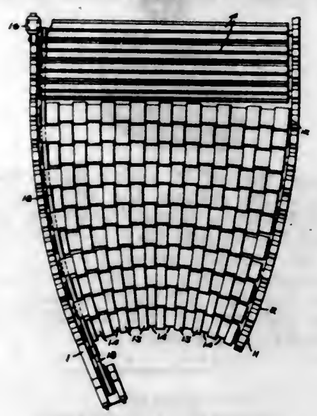
2,594,590
APPARATUS FOR BLENDING FIBER
Leslie A. Runton, Dracut, Mass., assignor to J. P. Stevens & Co. Inc., New York, N. Y., a corporation of Delaware
Application May 25, 1949, Serial No. 95,357
14 Claims. (Cl. 19—146)



1. An apparatus for blending fibre comprising a series of parallel rolls, means for rotating all the rolls only in one direction, means for mounting adjacent rolls for relative bodily movement while remaining parallel between a position in which all the rolls are in a substantially horizontal plane and spaced to support and advance in sheet form the fibre fed thereto and a second position to which the adjacent rolls have been displaced by the said relative bodily movement, said movement acting to separate the sheet of fibre into sections thereby to discharge the sections, while advancing, downward, and means for periodically effecting the said relative movement of the rolls between the said two positions.

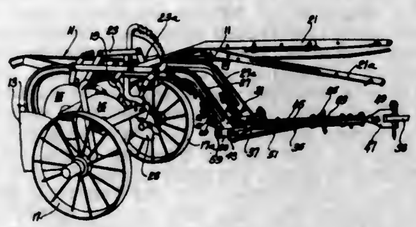
2,594,591
CONVEYER FOR FEEDING AND SPREADING LOOSE FIBER INTO SHEET FORM
Leslie A. Runton, Dracut, Mass., assignor to J. P. Stevens & Co. Inc., New York, N. Y., a corporation of Delaware
Application May 25, 1949, Serial No. 95,358
3 Claims. (Cl. 19—67)

1. A conveyor for feeding and spreading loose fibre into sheet form comprising a series of centrally equi-spaced shafts having arcuate longitudinal axes and of progressively increasing lengths and radii of curvature fixedly mounted in a substantially horizontal plane, a corresponding series of flexible equal diameter tubular shells of lengths correspondingly increasing with those



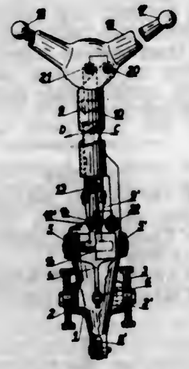
of the shafts rotatively and concentrically mounted on the shafts, and means for simultaneously rotating the shells in the same direction to cause the series of shells to advance and spread laterally loose fibre fed on to the shells of the shortest length and radii.

2,594,592
PLOW HITCH
Alvah E. Rutter, Rockford, Ill., assignor to J. I. Case Company, Racine, Wis., a corporation of Wisconsin
Application August 14, 1948, Serial No. 44,327
5 Claims. (Cl. 280—33.9)



1. In a wheel plow which includes a frame for supporting at least one plow bottom, and a drawbar, means including a horizontally disposed pivot which extends transversely of the line of draft of said plow for connecting said drawbar to said frame, and means intermediate said frame and said drawbar for limiting the free pivotal movement of said drawbar relative to said frame, said means including a guide rod connected at one end by a horizontally disposed, transversely extending pivot to said drawbar, a bracket attached to said frame, said bracket having an aperture therein for receiving the other end of said rod, and spaced-apart resilient means attached to said rod for yieldingly resisting pivotal movement of said frame relative to said drawbar in excess of the free movement permitted by the space between said resilient means.

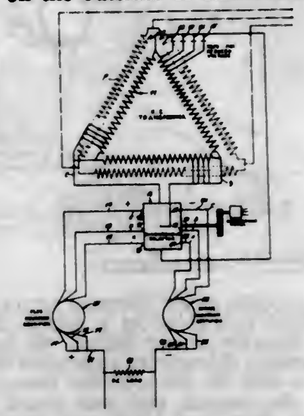
2,594,593
CONSTRUCTIONAL UNIT FOR THE CONTROL OF THE AILERONS AND ELEVATOR OF AIRPLANES
Jaroslav Šlechta, Prague-Vysočany, Czechoslovakia, assignor of one-half to Aviation Works, National Corporation, Prague, Czechoslovakia
Application January 28, 1948, Serial No. 4,747
In Czechoslovakia November 15, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires November 15, 1966
3 Claims. (Cl. 74—471)



1. A control device for adjusting the control surfaces of aircraft, comprising a hollow lever member, supporting means for said hollow member permitting an oscillation thereof in one plane about an axis intermediate the ends of said member, control-surface adjusting means attached at the lower end of said hollow member, an actuating rod linked to and oscillating with the hollow lever member and permitted also to swing in a plane perpendicular to the plane of oscillation of said hollow member, a swing lever mounted in the upper part of the hollow member to oscillate in the plane of oscillation of said member about an axis parallel to the swing axis of said hollow member, control-surface adjusting means attached to the free end of said swing lever, the effective length of the swing lever being equal to the distance between its swing axis and the swing axis of the hollow member, a transmission lever jointed to the swing lever and swingable upon an axis crossing the swing axis of the swing lever at an angle smaller than 90° essentially in a plane perpendicular to the length axis of the swing lever, the free end of said transmission lever being jointed to the actuating rod to follow the movements thereof.

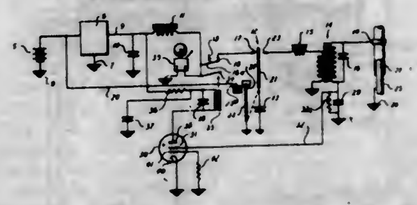
2,594,594
ALTERNATING CURRENT RECTIFIER
Frank E. Smith, Niagara Falls, N. Y.
Application September 15, 1948, Serial No. 49,333
28 Claims. (Cl. 321—50)

2. An electrical conversion apparatus including a polyphase transformer, a synchronous selector supplied with polyphase alternating current by said transformer, a load line supplied with polyphase direct current by said synchronous selector, and induction rectifiers in said load line between the load and the synchronous selector, said synchronous selector including a casing, a shaft extending into said casing, a pair of dielectric rotors on said shaft, each rotor having five transverse conductors offset from those of the other rotor, A. C. contacts between said rotors aligned with the paths of said transverse conductors and connected to the phases of said transformer, conduits extending to the contact faces of said contacts, means to deliver molten sodium through said conduits to said contact faces, D. C. contacts aligned with the A. C. contacts and with the paths of said transverse conductors on the outsides of said rotors, conduits



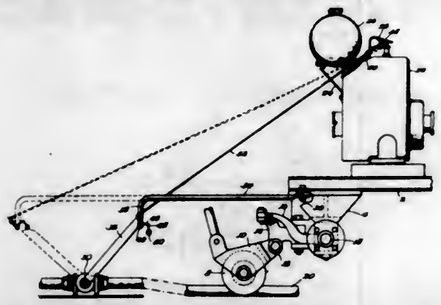
extending to the contact faces of said D. C. contacts, means to deliver molten sodium through said conduits to said D. C. contact faces, circuit breakers in each sodium line, and means to drive said rotors at one fifth full A. C. generator speed comprising a synchronous motor and reduction gearing.

2,594,595
SURGE GENERATOR
Dick E. Stearns, Shreveport, La.
Application January 5, 1948, Serial No. 527
8 Claims. (Cl. 175—373)



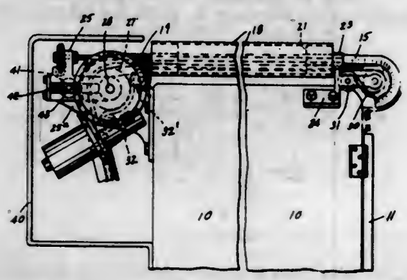
1. An oscillatory surge generator comprising means providing a transformer with a primary coil and a secondary coil and an inductance providing a series reactance with one of the coils; a condenser; means adapted to be connected to an electric power source; means for alternately electrically connecting the condenser to the power connection means and simultaneously electrically disconnecting it from the primary coil circuit, and for connecting the condenser to the primary coil circuit and simultaneously electrically disconnecting it from the power connecting means, said alternating means operating periodically at a predetermined frequency; and a condenser across the secondary coil of the transformer; the primary coil having sufficient shunt reactance to insure a low frequency oscillation therethrough, the shunt reactance being sufficiently greater than the reactance of the inductance in series with the transformer to insure a high frequency surge oscillation through the condensers and this latter inductance relative to the frequency of the oscillation through the shunt reactance whereby energy discharged from the first condenser is nearly all utilized in the high frequency surge oscillation.

2,594,596
POWER SPRINKLER SHUTOFF
Allyn F. Stetson, Chicago, Ill.
Application March 22, 1946, Serial No. 656,190
10 Claims. (Cl. 299—47)



1. In a traveling power operated sprinkler having a conduit connected to a source of water supply a separate power supply to drive the sprinkler, means operatively associated with said sprinkler to shut off the separate power supply, a valve in the conduit, and arm means on said sprinkler to close said valve and shut off the water supply, and movable bracket means on said arm means to actuate said first named means to shut off the separate power supply.

2,594,597
COVER TOP FOR TRAILER BODIES
George W. Taylor, West Terre Haute, Ind.
Application January 25, 1951, Serial No. 207,699
2 Claims. (Cl. 296—100)



2. The combination with an open top vehicle body and a flexible covering for closing the opening in said top, of means for drawing said covering longitudinally of the body guide means disposed longitudinally on the opposite sides of said body comprising tubular members having longitudinal slots therein adapted to receive the side edges of the flexible covering, and means for rotating said tubular members in one direction to tauten the flexible covering over the opening when the covering is moved to closing position.

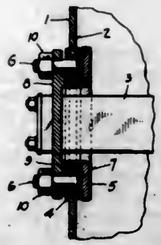
2,594,598
GARDEN TOOL
George M. Timmins, Ambler, Pa.
Application August 4, 1949, Serial No. 108,533
1 Claim. (Cl. 294—51)

A garden tool comprising a handle and a thin flat sheet metal blade secured thereto, said blade having a flat spade-portion extending substantially from side to side thereof, a sharp cutting edge of concave V-formation at the forward end of said spade-portion near the transverse center-line of the blade, the apex of the V being substantially at the longitudinal center line of said blade, two prongs extending forwardly from opposite sides of said spade-portion, said sharp cutting edge extending transversely from one prong to the other, wherein an unobstructed



space extends between the prongs forwardly of said sharp cutting edge, said space being of much greater width than that of either of said prongs, and each prong terminating in a concave V-shaped forward cutting edge forming a jaw for cutting roots or the like.

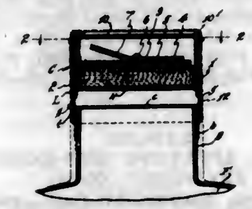
2,594,599
TANK OPENING ASSEMBLY
William C. Uhri, Milwaukee, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application April 12, 1948, Serial No. 20,382
7 Claims. (Cl. 220—64)



1. A seal for an opening in the wall of a metal hot water storage tank having a protective lining extending over portions of the wall exposed to the hot water to protect the same from corrosion by the contents thereof, which comprises resilient corrosion resistant sealing means encircling the edge of said opening and overlapping the tank wall radially for a substantial distance on the inside and outside of the opening, a corrosion resistant ring member disposed inside the tank in engagement with said sealing means and having a plurality of circumferentially spaced studs projecting outwardly therefrom and through aligned holes in the sealing means and wall of the tank, a cover plate receiving said studs on the outside of the tank wall and closing said opening, and means secured to the ends of the studs to confine the plate and ring in place and compress the sealing means against the wall of the tank around the opening to prevent approach of contained fluid to exposed metal.

2,594,600
SUNDIAL AND COMPASS
Frederick P. Upton, New Rochelle, N. Y., assignor to Berke Brothers Distilleries Inc., Boston, Mass.
Application February 2, 1950, Serial No. 141,876
6 Claims. (Cl. 33—62)

1. A sundial and compass device comprising a closed chamber of non-magnetic material, a suitable fluid carried within the chamber, a float having time and compass readings on its upper surface and visible from the top of the device on the fluid and a small magnet attached to and carried by the float also on its upper surface,



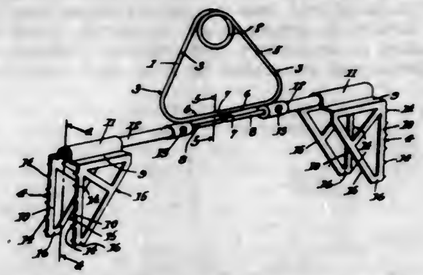
said magnet having one end bent upwardly so as to cast a time indicating shadow as it turns.

2,594,601
SUBSTANTIALLY INFUSIBLE NITROGENOUS RESINS AND METHOD OF PRODUCING SAME
George Karl Vogelsang, La Mott, Pa., assignor to The Borden Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application May 12, 1949, Serial No. 92,950
12 Claims. (Cl. 260—43)

1. A substantially infusible and substantially water insoluble nitrogenous resin comprising the water-leached reaction product obtained from a mixture of a potentially reactive phenol-aldehyde condensation product and a fusible, soluble, substantially non-resinous and substantially non-volatile reactive amine resulting from the reaction between a ketone-aldehyde condensation product and a nitrogenous base, said ketone-aldehyde condensation product being selected from the class consisting of the fusible, soluble, substantially non-resinous and substantially non-volatile reactive condensation products produced by reacting a ketone having the general formula $CH_3—CO—R_1$, wherein R_1 represents an aliphatic hydrocarbon radical having from one to four carbon atoms, with an aldehyde having the general formula $R_2—CHO$, wherein R_2 represents a member selected from the group consisting of hydrogen and aliphatic hydrocarbon radicals having from one to four carbon atoms, said nitrogenous base being a member of the group consisting of ammonia, primary and secondary amines, and tetra-alkyl ammonium bases which can break down to yield primary or secondary amines, possessing an ionization constant of not less than 1×10^{-9}, and containing at least one reactive hydrogen atom attached to a basic nitrogen atom, said mixture being reacted by heating it until a readily fusible resin is formed, and, through the use of water, leaching out the water-soluble components.

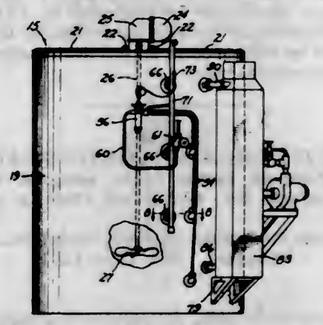
2,594,602
TROUSER HANGER
George L. Walter, Los Angeles, Calif.
Application December 6, 1948, Serial No. 63,719
4 Claims. (Cl. 223—95)

1. A trousers hanger including a pair of spring holding members formed of a single piece of spring wire, bent first intermediate its ends into a coil spring, then downwardly from the ends of said coil spring into a pair of spring arms, then inwardly and outwardly into a pair of interengaging loops, and into a pair of suspension arms, a pair of pressure engaging members mounted on the ends, respectively, of said suspension arms, each of which pressure engaging members being formed with a pair of jaws to be introduced into the ends of the legs, respectively of a pair of trousers and sprung by said coil spring into



engagement with the inner sides of said trousers legs at the creases of said legs.

2,594,603
REFRIGERATED LIQUID STORAGE TANK
Frank J. Zamboni, Hynes, Calif.
Application July 25, 1949, Serial No. 106,513
10 Claims. (Cl. 62—141)

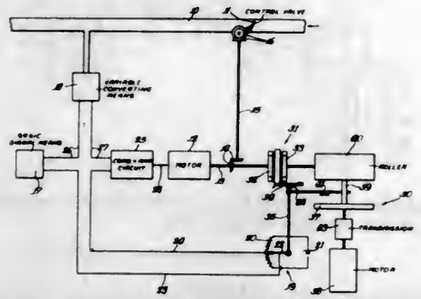


1. A refrigerated liquid storage tank comprising inner and outer walls, a refrigerant pipe of considerable length and of relatively small cross sectional area wrapped around said inner wall and serving as a spacer for said outer wall, said pipe cooperating with said inner and outer walls to define a continuous passage from one extremity of said tank to the other, a liquid filling said passage, and means for circulating said liquid through said passage to effect the maximum transfer of heat from said inner wall to the refrigerant in said pipe, said pipe being plugged at intervals along its length to form a plurality of short sections, each of which is separate from its adjoining sections, and each section having its own liquid and suction lines.

2,594,604
STABILIZED CONTROL SYSTEM
Herbert Ziebolz and Paul Glass, Chicago, Ill., assignors to Askania Regulator Company, Chicago, Ill., a corporation of Illinois
Application May 18, 1946, Serial No. 670,679
15 Claims. (Cl. 318—28)

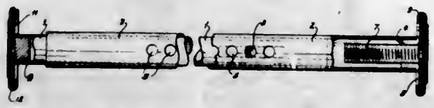
1. In a stabilized control system, means for controlling a variable, means including a device responsive to departure of the variable from a predetermined value generating an electrical signal proportional to the degree of departure and of a character indicating the direction of departure calling for adjustment of said controlling means, and a second signal generating means responsive to adjustment of said controlling means

operable as an incident to the primary adjusting movement of said controlling means in adjustment from an old to a new position and independently of said first mentioned signal generating means to generate an electrical signal increasing in magnitude and opposed in character to the signal generated by said first mentioned



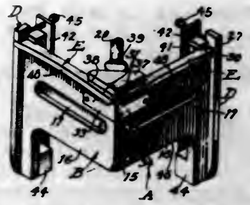
signal generating means and combined therewith progressively to reduce the rate of adjustment of said controlling means as said controlling means approaches the end of the primary movement, and means operating in response to adjustment of said controlling means for reducing the signal generated by said second signal generating means at an exponential rate.

2,594,605
ADJUSTABLE SUPPORTING BAR
Samuel Zoppelt, Berea, Ohio, assignor to Rop-Loc Products Co., Cleveland, Ohio, a partnership
Application December 23, 1946, Serial No. 717,929
2 Claims. (Cl. 211—123)



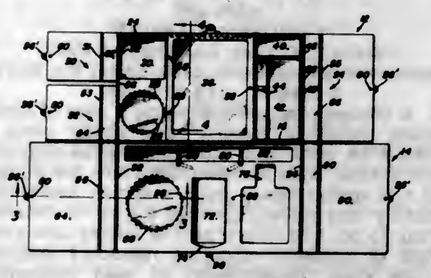
1. A unitary support comprising only two inner and outer members having telescopic interengagement with each other for relative longitudinal adjustment, the outer of said members having a series a holes through the wall thereof at intervals therealong, a spring associated with said inner member and having a detent extending radially outwardly therefrom and adapted to be held by said spring in one of said holes, said detent having an abrupt shoulder throughout approximately one hundred and eighty degrees circumferentially thereof for outward projection into engagement with the edge of the hole in which engaged, and said detent being beveled throughout the remaining one hundred and eighty degrees circumferentially thereof for cooperation with the corresponding edge portion of the hole in which the detent is engaged so as to permit longitudinal lengthening for coarse adjustment between said members, a disk rotatably mounted upon the outer end of one of said members and about the longitudinal axis thereof, said disk being mounted upon the member end which is farther away from said abrupt shoulder, and a disk at the outer end of the other of said members and having screw-threaded engagement therewith about the longitudinal axis thereof for effecting fine longitudinal adjustment between said members so as to obtain exactly the length desired, said disk with the screw-threaded engagement being located at the end which is nearer said abrupt shoulder so that the engagement of said abrupt shoulder with the edge of the hole will prevent accidental relative longitudinal shortening movement between said members during and after operation of said screw-threaded engagement for effecting the fine adjustment thereof.

2,594,606
MASTIC APPLYING AND CORNER FINISHING TOOL
Robert G. Ames, Burlingame, Calif., assignor, by direct and mesne assignments, of one-fifth to George W. Williams and one-fourth to Stanley Ames, both of Burlingame, Calif., and one-tenth to Lois H. Williams Aull, one-tenth to Katherine A. Williams, and one-tenth to George W. Williams, III
Application October 9, 1950, Serial No. 189,160
10 Claims. (Cl. 72—130)



1. In a mastic-applying and corner finishing tool: a body having a pair of angularly-related face plates providing a junction therebetween and having trailing edges; these plates being adapted to be arranged in confronting relation with two wall boards that define a corner, with the junction of the plates disposed at the corner of the boards; means for applying mastic to those surfaces of the plates that confront the boards; spaced-apart longitudinal bars carried by the plates and substantially paralleling the junction between the latter; these bars projecting from the mastic-carrying surfaces of the plates to limit lateral spreading of the mastic; the longitudinal bars having edges riding against the boards; and transverse troweling bars extending from the junction of the plates along the trailing edges of the plates, and to the longitudinal bars to trowel off excess mastic as the tool is advanced longitudinally along the corner; the longitudinal and transverse bars having wall board engaging edges that overhang those plate surfaces that confront the boards.

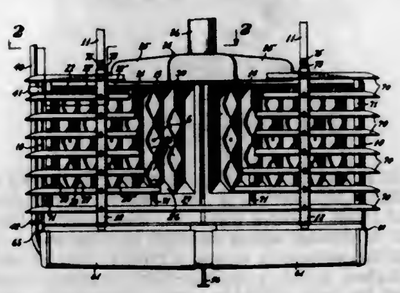
2,594,607
COMPACT
Lura F. Anderson, Nashville, Tenn.
Application October 3, 1950, Serial No. 188,250
2 Claims. (Cl. 132—83)



1. A compact comprising upper and lower sections, a plurality of compartments in each of said

sections, a hinge connection between a pair of common longitudinal edges of said sections, double closure retaining plates hingedly attached to transverse edges of said sections and adapted to be folded inwardly against their respective sections, said double closure plates including first and second portions hingedly connected together and with said second portions of said plates positioned between said sections when in folded position.

2,594,608
FUEL-BURNING PANEL HEATER
William G. Cartter, Monrovia, Calif., assignor, by mesne assignments, to Affiliated Gas Equipment, Inc., Cleveland, Ohio, a corporation of Delaware
Application August 7, 1948, Serial No. 43,038
14 Claims. (Cl. 126—91)



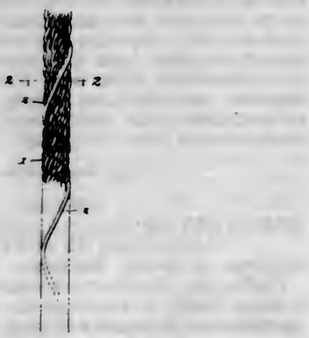
1. A radiant-type gas burning heater adapted for installation in the upper limits of a room comprising in combination fuel combustion means; means for collecting the products of combustion produced by said fuel combustion means disposed superadjacent said combustion means and having an opening in the top thereof; a hollow heat exchange unit having a lower open end communicating with said fuel combustion means and an upper flue outlet communicating with said collecting means, and comprising means defining a plurality of vertically disposed tortuous gas passages adapted to duct said products of combustion upwardly and to radiate heat produced thereby; and means for reflecting heat radiated by said heat exchange unit downwardly towards the floor of said room, said means comprising a plurality of vertically spaced longitudinally horizontal reflector vanes circumscribing in spaced relation said heat exchange unit, the lower surfaces of said vanes being finished so as to be predominantly reflective, the upper surfaces of said vanes being darkened so as to be predominantly absorptive.

2,594,609
SEPARABLE FASTENER
Bernard J. Cosneck, St. Louis, Mo.
Application October 9, 1946, Serial No. 702,281
7 Claims. (Cl. 24—230)



1. In a locking device, in combination, a first unit including a casing, a member mounted in said casing for rotation, an actuating member mounted in said casing adjacent said rotatable member for limited reciprocative movement, said rotatable member and said actuating member including cooperatively engageable portions whereby reciprocation of said actuating member in one direction rotates said rotatable member through a fraction of a revolution and reciprocative movement of said actuating member in the opposite direction rotates said rotatable member a fraction of a revolution in the opposite direction, means for reciprocating said actuating member, and a second unit including an element having means adapted to be engaged by said rotatable member in one position of said member and adapted to be free of said rotatable member in the other position of said member, said second unit being secured to said first unit against separation when the element of the second unit is engaged by the rotatable member of the first unit and said second unit being free for separation from said first unit when said element of the second unit is free from said rotatable member of the first unit.

2,594,610
IDENTIFICATION MEANS FOR STRANDED CABLES
Earnest C. Cripe, Goshen, Ind.
Application August 7, 1950, Serial No. 178,096
1 Claim. (Cl. 57—139)

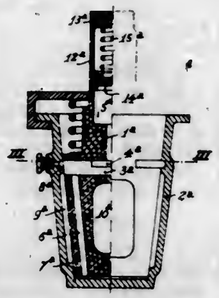


The combination, with a length of stranded wire cable formed from a plurality of inter-twisted strands of small diameter having spaced portions exposed externally of the cable, intervening portions of the respective strands being concealed within the cable, of an identification strand substantially greater in diameter than any of said inter-twisted strands, said identification strand being wrapped spirally upon the cable and being exposed on the external surface of the cable for its entire length, said identification strand being recessed in the exterior surface of the cable so that no portion thereof projects beyond the outer diameter of said cable, said first-named strands being intertwisted with one another independently of the identification strand, and the identification strand being wrapped spirally upon the exterior surface of the cable formed by the inter-twisted strands.

2,594,611
SELF-ACTING LUBRICATING COCK
Lucien Banides, Ault, France
Application May 21, 1945, Serial No. 594,966
In France March 2, 1942
4 Claims. (Cl. 251—93)

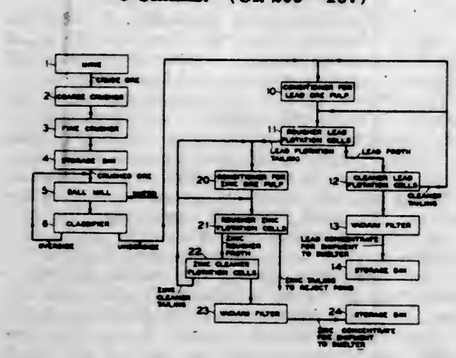
1. A self-acting lubricating cock comprising a body portion, a rotatable plug in said body por-

tion having a port therein, at least one circumferential groove on the internal wall of said body portion, said circumferential groove being spaced from said port in said plug, longitudinal grooves on said internal wall of said body portion stopping short of said circumferential groove, circumferential grooves on said plug registering with said groove in said body portion at desired positions, a single lubricant reservoir in said plug spaced above said port, perforations in said plug



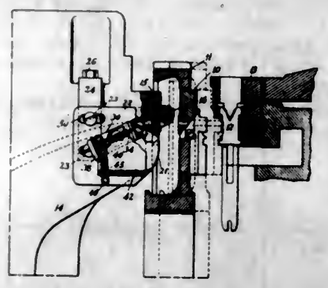
connecting said reservoir with said grooves to form two separate alternatively operable lubricating circuits, one of said circuits being operable when said cock is in open position, and the other said circuit being operable when said cock is in closed position, said last named circuit having no connection with said longitudinal grooves, whereby an adequate supply of lubricant will be available in all positions of said cock without unwarranted flow of lubricant through said port.

2,594,612
RECOVERY OF ZINC VALUES BY SELECTIVE FLOTATION OF SULFIDE ORES
William A. Bates, Berkeley, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application November 1, 1949, Serial No. 124,873
8 Claims. (Cl. 209—167)



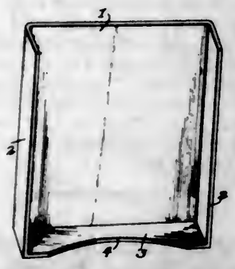
1. A process for the recovery of zinc sulfide from a sulfide ore containing zinc sulfide in admixture with pyrites and non-sulfide gangue, which comprises effecting froth flotation of a pulp of said ore in an alkaline circuit having a pH from about 7.0 to about 11.0 in the presence of petroleum nitrogen bases consisting essentially of a mixture of alkylated heterocyclic nitrogen-bearing compounds boiling between about 120° F. to about 630° F. as the selective collector for zinc sulfide, and separating a froth of beneficiated zinc sulfide from a tailing containing pyrites and non-sulfide gangue.

2,594,613
POT MOUTHPIECE WIPER
William O. Becker, Ozone Park, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application July 1, 1947, Serial No. 758,259
10 Claims. (Cl. 199—62)



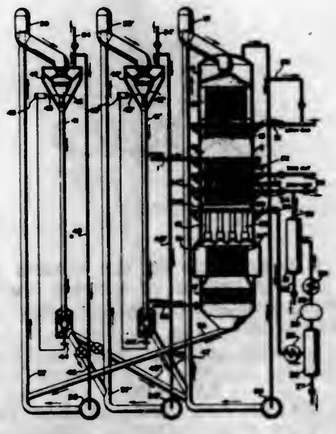
1. In a type bar casting machine equipped with a melting pot having a mouthpiece and movable to and from casting position, the combination of a pair of rocker arms carried by the pot, a pair of spring-actuated arms slidably connected to said rocker arms, a mouth-piece wiping element carried by said slidable arms, automatic means for rocking said rocker arms in one direction to carry said element bodily across the face of said mouthpiece as the pot moves to casting position, and automatic means for rocking said rocker arms in the opposite direction to again carry said element across the face of said mouthpiece as the pot moves from casting position.

2,594,614
HAMMER POCKET DEVICE
Harvey B. Behnke, Appleton, Wis.
Application January 10, 1951, Serial No. 205,394
2 Claims. (Cl. 2—248)



2. In combination with the hip pocket of a carpenter's overalls; of a hammer-head holding device in said pocket comprising a flat body substantially the width of said pocket and bearing against the outer portion of said pocket, parallel side portions integral with said flat body, said side portions provided with outer vertical edges bearing against the inside pocket, a flat horizontal bottom integral with said side portions and flat body, and said bottom being curved inwardly on its outer edge to receive a portion of said pocket and to fit the buttock of the wearer of the overalls.

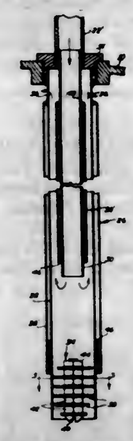
2,594,615
ADSORPTION PROCESS AND APPARATUS THEREFOR
Clyde H. O. Berg, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application September 10, 1946, Serial No. 696,017
16 Claims. (Cl. 183—4.2)



2. In a continuous process for the separation of a gaseous mixture by selective adsorption and desorption which comprises the steps of passing a continuously moving bed of solid adsorbent successively through an adsorption zone and a stripping zone, absorbing a portion of said gaseous mixture on said solid adsorbent in said adsorption zone, separating the unadsorbed components of said mixture from said adsorbent and stripping said adsorbent in said stripping zone to recover therefrom said adsorbed components of said mixture the improvement comprising depressuring a gas concurrently with adsorbent through a sealing zone between said adsorption zone and said stripping zone to establish a reduced pressure in said stripping zone relative to said adsorption zone, and carrying out said stripping step at a pressure less than that maintained in said adsorption step.

5. In an apparatus for the separation of gaseous mixtures by selective adsorption and desorption in a moving bed of granular solid adsorbent which comprises an adsorption column, provided with a cooling section, an adsorption section, at least one rectification section and a stripping section, the improvement comprising a sealing section located between said stripping section and the rectification section next adjacent thereto, said sealing section comprising a series of tubes through which said adsorbent must flow before entering said stripping section, means for heating said adsorbent while passing a stream of stripping gas countercurrently therethrough, means for introducing into said adsorption column at a point directly above said sealing section a quantity of gas under a greater pressure than that existing in said stripping section, and means for withdrawing adsorbent from the lower portion of said column at one pressure and introducing the withdrawn adsorbent to the upper portion of said column at a higher pressure.

2,594,616
HOT-WATER HEATING DEVICE AND METHOD
Benjamin Howard Blondeau, Seattle, Wash.
Application October 4, 1948, Serial No. 52,711
19 Claims. (Cl. 126—362)



2. In a water heating and storage system including a hot water storage tank and an external heating circuit operatively connected thereto, flow directing means interposed in series with the hot water delivery and of said circuit, at the tank, said means comprising a first conduit means to direct flow of water downward from said circuit delivery end to a location substantially below the top of said tank and further conduit means to direct flow of water from the lower end of said first conduit means upward in the tank to a location in the vicinity of its top for discharge into the tank generally.

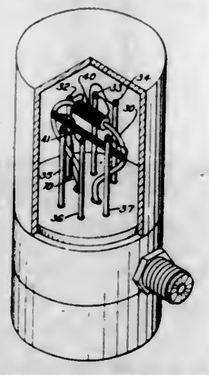
2,594,617
LAMINATED DRILL COLLAR
Elvin G. Boice, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application February 13, 1946, Serial No. 647,348
5 Claims. (Cl. 255—23)



1. A drill collar adapted to be connected in a drill string, the major peripheral portion of which is fabricated from superimposed metal laminations supported and shrunk upon a rigid tubular base member, each lamination compris-

ing a relatively flat circular element with the surfaces of adjacent laminations abutting each other, the inner periphery of each circular element engaging the base member and the outer periphery of the elements forming the outer surface of the drill collar, each element being formed from a flat sheet of material whereby the thickness of the element is considerably less than the transverse area of said element between the inner and outer peripheries thereof.

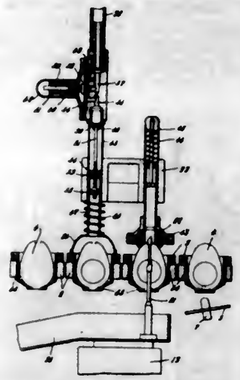
2,594,618
THERMAL FLOWMETER
Eugene T. Booth, Jr., New York, N. Y., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application August 11, 1945, Serial No. 610,347
6 Claims. (Cl. 73—204)



1. Apparatus for the measurement of gas flow comprising a massive base member having an inlet and an outlet and formed of a heat conductive material, a loop-shaped conduit of low heat conductivity and low heat capacity operatively connecting the inlet and outlet and arranged to permit the gas flowing therethrough to make thermal contact with said base member near said outlet, a shunt in the base member connecting the inlet and outlet, means to apply to a zone of the conduit a constant input of heat whereby the temperature of gas passing the zone will be raised, means to measure the temperature differential of the conduit between points equidistant from the heated zone, and means to shield the conduit.

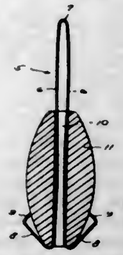
2,594,619
MACHINE FOR PIERCING EGGS AND FOR EMPTYING SAME BY MEANS OF A CURRENT OF AIR
Alexander Bosch and Gerrit Jan Noltes, Amsterdam, Netherlands
Application October 14, 1949, Serial No. 121,376
In the Netherlands October 19, 1948
6 Claims. (Cl. 146—2)

1. A machine for piercing eggs and for emptying same by means of a blast of compressed air, comprising a carrier for the eggs and piercing pins, means for intermittently moving said carrier and pins relative to one another so that each time one or a plurality of eggs will lie opposite a plurality of piercing pins, means for operating said pins when the carrier and the piercing pins are at a standstill relative to one another in a direction normal to the direction of said relative movement, said piercing pins having spaced thickened portions of different cross-sectional size thereon below each of which there is a portion of smaller cross-sectional area, the smaller of said thickened portions being closer to the free end of said pin than the other



to prick a larger hole in the bottom portion than in the top portion of the egg shells, and said piercing pins being solely arranged underneath said carrier.

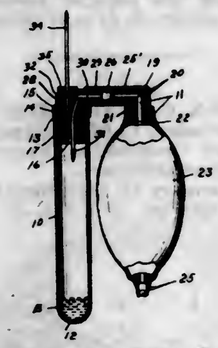
2,594,620
DETACHABLE AND RELEASABLE CONNECTOR FOR FISHING SINKERS
George T. Braithwaite, Miami, Fla.
Application June 27, 1950, Serial No. 170,665
1 Claim. (Cl. 43—43.12)



A spring wire connector for detachably connecting a sinker to a fishing line, that comprises a pair of identical divergent legs connected by a rounded head, the lower ends of the legs bent upwardly to provide a pair of identical outwardly divergent gripping arms the terminal ends of which are bent inwardly to provide rounded portions, the connector adapted for use with oval type sinkers having an axial opening therethrough, the legs and arms adapted to be compressed and inserted through the opening to project and expand below the sinker laterally to cause the arms to overlie the body of the sinker and have gripping contact therewith when the connector is shifted in reverse motion, the bending of the arms presenting rounded portions that permit uninterrupted sliding movement of the connector through the opening of the sinker in either an attaching or detaching motion of the connector.

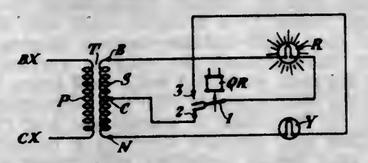
2,594,621
BLOOD OBTAINING INSTRUMENT
George W. Derrick, Elbridge, N. Y.
Application August 3, 1950, Serial No. 177,399
3 Claims. (Cl. 128—278)

1. A blood obtaining device, comprising, in combination, a fluid receptacle having an air-tight stopper for effectively maintaining the interior of said fluid receptacle in a sterile condition, a suction device comprising a header having a passage extending therethrough connected to a source of vacuum, fluid conveying means including a suction tube operatively connecting the suction device with the receptacle in sterile relation to said interior of the receptacle, a surgical needle pointed at both ends, one end of said



needle being disposed in the fluid receptacle through the air-tight stopper and the other end adapted for direct insertion into the vein from which a blood sample is drawn, said stopper element having a needle and suction tube receiving portion so constructed and arranged that the receptacle may be disconnected from said needle and suction tube without breaking the fluid seal of said receptacle.

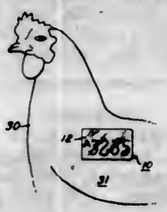
2,594,622
ELECTRIC CIRCUIT FOR INCANDESCENT LAMPS
Myri R. Douglass, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application June 29, 1950, Serial No. 171,215
3 Claims. (Cl. 315—186)



1. In an electrical circuit, a source of voltage, a first lamp, a first circuit including a normally closed relay contact connecting said first lamp across a portion of said source, a second lamp, a relay effective when energized for connecting said second lamp across another portion of said source through said relay contact and effective when picked up to open said normally closed relay contact and thereby effectively connect both said first and second lamps in series across said source.

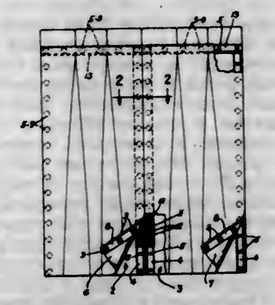
2,594,623
FOWL IDENTIFICATION MARKER
Horace W. Dryden, Modesto, Calif.
Application December 15, 1947, Serial No. 791,721
3 Claims. (Cl. 40—3)

1. A fowl-marker adapted to be pinned through the tough-webbing of a fowl's wing, comprising a flat light-weight body member having a front wall portion through which a rearward view is afforded, a back wall portion, and an interior recess between said wall portions; a large identification card in said recess; and a pin mechanism mounted longitudinally on the rear wall in offset position below the lengthwise horizontal axis of said rear wall, said pin mechanism having a clasp and a pointed free arm which is



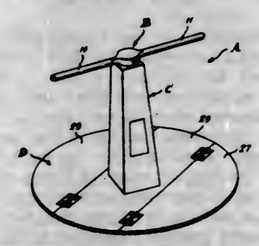
engaged by said clasp when the pin is closed, said free arm being bent outwardly adjacent its point so that when said arm is clasped fastened, the pointed end passes out through the middle of its clasp.

2,594,624
SECTIONAL WINDOW DRAPERY
Alfred J. Dubinsky, La Crosse, Wis.
Application May 11, 1951, Serial No. 225,771
6 Claims. (Cl. 160—231)



1. A sectional drapery comprising two or more sections secured together along their contiguous edges, a plurality of fastening elements secured to the vertical edges of said drape sections and spaced equi-distant apart the length thereof, and an elongated ribbon-like connecting element having complemental fastening elements secured thereto adapted to be interlocked with the fastening elements on the contiguous edges of said drape sections, thereby to secure said edges together the full length thereof.

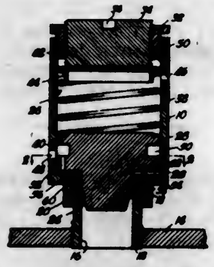
2,594,625
WALKING AID FOR SMALL CHILDREN
Benjamin Dunkelman, Toronto, Ontario, Canada
Application June 17, 1950, Serial No. 168,686
6 Claims. (Cl. 155—23)



1. A walking aid for small children comprising, a pedestal, a rotary element rotatably mounted

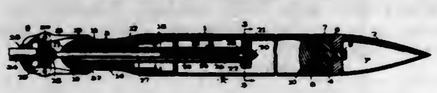
on top of the pedestal, said element having an arm projecting laterally therefrom beyond the pedestal, the rotatable mounting of said rotatable element including a rotating shaft extending within the pedestal, a rotary sleeve within the pedestal designed to receive said shaft in driving engagement therewith and means for vertically adjusting the shaft relatively to the sleeve to raise and lower the rotatable element.

2,594,626
SAFETY VALVE
Clarence E. Earle, Washington, D. C.
Application September 9, 1946, Serial No. 695,635
7 Claims. (Cl. 137—53)



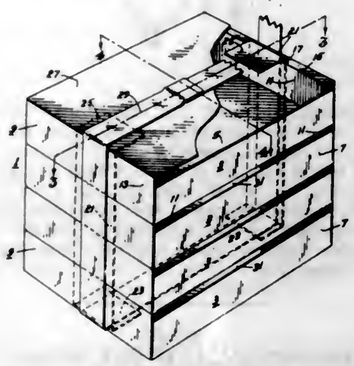
1. A valve for controlling fluid under pressure comprising a housing having an inlet port and a lateral outlet port, a seat in said housing intermediate said ports, a body reciprocable in said housing to and from engagement with said seat, said body having a smaller effective cross sectional area exposed to inlet port pressure when seated and a larger effective cross sectional area of substantially the cross section of said housing exposed to said pressure when unseated, a flange interposed between said areas and movable with said body having an effective cross sectional area intermediate said smaller and larger areas controlling said outlet port during a portion of the travel of said body, and a shoulder spaced from said seat carried by said housing in opposition to said flange, the opposed areas of said flange and shoulder being sufficient, and sufficiently proximate to one another when said valve approaches its closed condition, to produce a rapid closing action.

2,594,627
JET-PROPELLED DEVICE
Homer K. Endicott, Cleveland, Ohio, assignor to Homer K. Endicott Enterprises, Cleveland, Ohio, a partnership
Application March 7, 1949, Serial No. 80,004
6 Claims. (Cl. 46—74)



1. A rocket-type device comprising an elongated cylindrical member formed with a hollow space adapted to contain a high pressure gas charge, said elongated member including a detachable nosepiece closing one end of the hollow space, and a tailpiece having axial bore means; a valve plunger reciprocable in said cylindrical member and having a reduced forward end part, a rearwardly opening tubular stem portion fitting and slidable in said axial bore means, and a lateral port in open communication with said tubular stem portion and the outside of said reduced end part; a valve seat formation within and integral with said elongated member providing a forward abutment for said reduced forward end part and including a portion blocking gas flow from the charge gas space to said lateral port when the reduced forward end part is seated in the abutment; and releasing means including a member relatively movable into and out of the axial bore means of the tailpiece to engage the outer end of the tubular stem portion of the valve plunger to hold the reduced forward end part seated in the abutment of said valve seat formation.

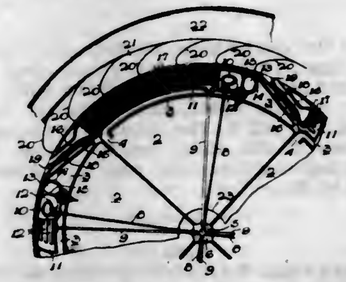
2,594,628
BOX CONSTRUCTION
Wil Evans, Berkeley, Calif., assignor to California Container Corporation, Emeryville, Calif., a corporation of Delaware
Application January 14, 1946, Serial No. 641,102
4 Claims. (Cl. 229—6)



4. A unitary assembly of box trays comprising a plurality of individual box trays each having a bottom, side walls and end walls, the end walls being of greater height than the side walls and each including an inner end wall and an outer end wall in spaced relationship to each other and joined by a bridging wall, said bridging wall and said bottom having aligned slit openings therethrough forming a vertical slit passage through such end wall, said trays being stacked one upon another with the slit passages at each end of the stack in alignment; and means for holding said stacked trays in a unified assembly, said means including strip material engaging the bottom of the stack and passing up through the aligned passages at each end of the stack and terminating in exposed tabs folded inwardly of the uppermost tray, a cover laid across the end walls of said uppermost tray and said inwardly folded tabs, and means holding said cover in pressure engagement with said uppermost tray end walls end said inwardly folded tabs, said means including adhesive tape encircling said stacked trays in the median plane of said strip material.

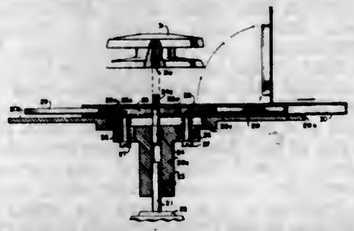
2,594,629
JET-REACTION MOTOR, INCLUDING GAS NOZZLE GENERATING STEAM
Hellmuth Alfredo Arturo Exner, Florida, Argentina
Application September 15, 1947, Serial No. 774,046
In Argentina March 29, 1947
2 Claims. (Cl. 60—35.6)

1. In a jet-reaction motor, the combination, comprising, an annular stator housing open on its inner periphery, a pair of bearings fixed to the stator housing, a shaft journaled in the bearings, a hollow rotor fixed to the shaft and extending into the inner periphery of the stator and having an air inlet adjacent the shaft, a plurality of angularly spaced air heating chambers in the rotor adjacent the periphery thereof and supplied with air entering through the inlet by the rotation of the rotor, a plurality of combustion chambers one in each air heating chamber and having an air intake communicating therewith, a plurality of ignition means one in each combustion chamber and disposed in a plane at right angles to the rotor axis, said plane also containing the corresponding intake, a plurality of atomizers one in each combustion



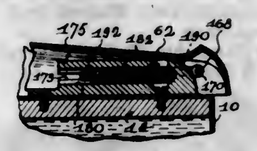
chamber and disposed in said plane and on the side of the corresponding ignition means opposite the corresponding air intake, a plurality of spaced vaporization chambers in the rotor adjacent the periphery thereof, a plurality of radial water conduit means each supplying one of the vaporization chambers with water by the rotation of the rotor and one for each combustion chamber, and a plurality of other conduit means at least one for each of the vaporization chamber means and conducting the burnt gases from a combustion chamber through the corresponding vaporization chamber, substantial tangential outlets each connected to a vaporization chamber, and separate substantial tangential outlets for the other conduit means.

2,594,630
TAPE-ROLL AND REEL ASSEMBLY
Wentworth D. Fling, Port Washington, N. Y., assignor to Fairchild Recording Equipment Corporation, a corporation of New York
Application November 10, 1949, Serial No. 126,518
10 Claims. (Cl. 242—55)



1. In an electrical apparatus for translating the signal of a signal-carrying tape-roll initially disposed in a transportable container, a reel and tape-roll assembly comprising: a rotatable disc having a supporting surface and an axially movable central hub; means for biasing said hub toward a position extending from said supporting surface; a tape-roll assembly comprising a central core and a roll of tape wound thereon and adapted to be disposed on said hub without removal from or interference from its container; said hub and said core including provisions for engagement of one by the other to ensure proper registration therebetween and upon engagement to permit removal of the tape-roll container; and means for actuating said hub against said biasing means to a position in which, upon withdrawal of the tape-roll container, said roll of tape is supported by said disc for reeling.

2,594,631
LIGHTER
Charles A. Fortin, Montreal, Quebec, Canada, assignor to Paul Pauliot, Cote des Neiges, Montreal, Quebec, Canada
Application March 29, 1950, Serial No. 152,665
1 Claim. (Cl. 67—7.1)

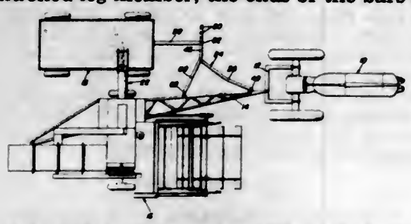


In a pyrophoric lighter, a casing constituting a fuel reservoir, a U-shaped bridge member mounted on said casing including a base portion and upstanding side flanges extending from said base portion, an abrasive wheel mounted for rotation in a horizontal axle between said upstanding flanges, a snuffer cap pivotally mounted on said abrasive wheel axle, means operatively connecting said snuffer cap with said abrasive wheel, an actuating lever pivotally connected to said snuffer cap above and forward of said abrasive wheel axle, a roller bearing mounted for rotation on a shaft extending across said actuating lever adjacent the end remote from said snuffer cap, a cam block having a roller guiding surface and an internal recess mounted on said U-shaped bridge member base, said cam block being provided with elongated slots extending axially at each side of said cam block recess, a coil spring seated in said cam block recess, and a pair of spaced apart elongated links extending along each side of said cam block, each of said links being pivotally connected at one end to said roller bearing shaft, a pin mounted between the other ends of said elongated links remote from said roller bearing shaft said pin slidably fitting in said cam block slots and extending across said cam block recess so as to engage the outer end of said coil spring seated therein.

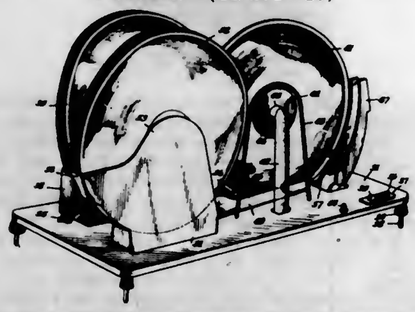
2,594,632
COMBINE HITCH
Herman W. Frantz and Kenneth M. Engebretson, Marietta, Minn.
Application July 3, 1950, Serial No. 171,984
1 Claim. (Cl. 280—33.44)

A draft hitch for use with combines comprising a pair of leg members pivoted at one end of each to a tow bar of a combine in longitudinally spaced relation, the other end of one leg member being pivoted to the other leg member intermediate the ends of the latter, the other end of the other leg member having a plurality of spaced apertures for selective pivotal connection to the tongue of a trailer, said other leg member comprising a pair of bars, having the end portions attached to the tow bar divergent with respect to each other, the bars having parallel

portions embracing the other end of the first-mentioned leg member, the ends of the bars having said apertures being disposed in side by side juxtaposition.



2,594,633
RECORD CHANGER
Frank Freimann, Carl Hart, and Arthur L. Knox, Sr., Fort Wayne, Ind., assignors to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application November 29, 1945, Serial No. 631,718
8 Claims. (Cl. 274—10)



1. An automatic phonograph for playing phonograph records comprising a record magazine, a record reject magazine, a record support and drive mechanism for vertically rotating a record in either of two directions, a dual phonograph pickup arm adapted to reproduce said record, a record transfer mechanism for supplying a record from said first magazine to said record support and driving mechanism, said mechanism including an apparatus vertically reciprocable for elevating said record to the proper height for rotation by said record support and driving mechanism, index means adjacent said elevating apparatus responsive to a predetermined diameter record for controlling the travel of said record elevating apparatus and for predetermining the starting position of said pickup arm, a sequence operation mechanism for actuating said elevating apparatus, means for securing said record on said record support and drive mechanism and for positioning said phonograph pickup arm, means responsive to the positioning of said pickup arm at the beginning of a record for stopping said sequence operation mechanism, means responsive to the completion of the playing of one side of a record for re-starting said sequence operation mechanism, and a second record transfer mechanism for moving a reproduced record to said record reject magazine.

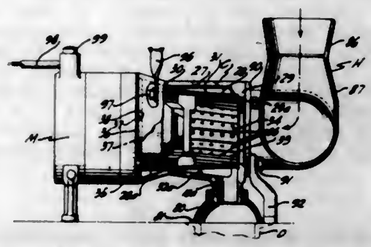
2,594,634
DISPENSER FOR LIGHT-SENSITIZED SHEETS
Charles F. Galloway, Los Angeles, Calif.
Application November 25, 1949, Serial No. 129,427
2 Claims. (Cl. 312—54)

1. A device for dispensing single sheets of light-sensitized paper including: a container, a cover for said container, said container provided with an elongated curved groove, a feed roller within said groove; said container formed with a discharge slot forwardly of the said roller, an inclined table portion within said container and rearwardly of said roller, said table and said roller adapted to support therebetween a stack of sensitized paper, the said roller positioning one



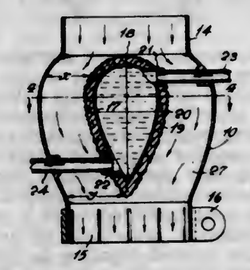
edge of the stack above the discharge slot, means at all times urging the lowermost sheet of said sensitized paper into engagement with the periphery of said roller, and a flexible light seal member carried by the cover and engaging the periphery of the roller rearwardly of the discharge slot and below the edge of the stack supported by the roller.

2,594,635
PORTABLE GARBAGE DISPOSAL UNIT
Leon E. Gamaunt, Sr., San Pedro, Calif., assignor to G. M. Engineering Co., Inc., Burbank, Calif., a corporation
Refiled for application Serial No. 133,881, December 19, 1949. This application July 18, 1951, Serial No. 237,409
12 Claims. (Cl. 241—88)



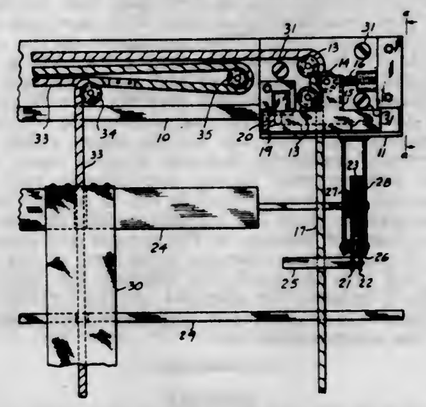
1. A portable garbage disposal unit adapted to be positioned in a sink which includes: an outer tubular shell; leg means that support said shell in a horizontal position in a sink; a frusto-conical inner shell that is longitudinally positioned within the confines of said outer shell, with said inner shell having a plurality of circumferentially spaced perforations formed therein that extend substantially the longitudinal length of said shell; a garbage receiving hopper mounted on the end of said outer shell adjacent the small end of said inner shell, with the discharge end of said hopper in communication with the interior of said inner shell, and garbage and fluid discharged into said inner shell from said hopper tending to flow toward the larger end of said shell due to the frusto-conical shape thereof; a motor mounted on said outer shell on the end adjacent the larger end of said inner shell; a shaft extending into the large end portion of said inner shell from said motor; a plurality of circumferentially spaced longitudinally extending cutting members positioned on the interior surface of said inner shell; a rotor mounted on said shaft, with said rotor positioned in the longer end portion of said inner shell, and fluid and garbage discharged into said inner shell when said rotor is rotating, subjected to two actions, first, the tendency of the fluid and garbage to move toward the larger end of said shell due to the frusto-conical shape thereof, and second to centrifugal action imparted to said fluid and garbage by the rotation of said rotor whereby said fluid and garbage is whirled around the interior of said inner shell in a plane normal to the longitudinal axis thereof, with said whirling fluid flowing outwardly in a radial direction due to the centrifugal force exerted thereon, and this outward flow of fluid together with the centrifugal force exerted on the whirling garbage causing the major portion of said garbage to be shredded into sufficiently small particles to be ejected through said perforations; a hub forming a part of said rotor, with said hub having threads formed on the exterior thereof; a rotary blade, with said blade formed with a hub that has a tapped bore that engages said threads; spring means operatively associated with said rotor and blade that cause said rotor and blade to rotate in unison, with said blade shredding that portion of said garbage that is not shredded by whirling contact with said cutting members to sufficiently small size to pass through said perforations, and said spring means being compressible to permit the rotation of said rotor hub to move said blade rearwardly to a position where said blade can rotate when said blade encounters a piece of refuse it cannot readily shred, and the compression on said spring when said blade has moved longitudinally tending to reverse said movement and keeping said blade in rotating shredding contact with the refuse causing the first longitudinal position of said blade until said refuse is shredded sufficiently to permit said blade to occupy its normal rotating movement on said rotor; a drain pipe extending downwardly from said outer shell through which shredded garbage and fluid that have passed through said perforations are discharged; and a resilient tubular member removably connecting said drain pipe to the drain in the sink in which said unit is positioned.

2,594,636
HUMIDIFIER
Antoine Gazda, Providence, R. I.
Application April 25, 1945, Serial No. 590,263
5 Claims. (Cl. 261—36)



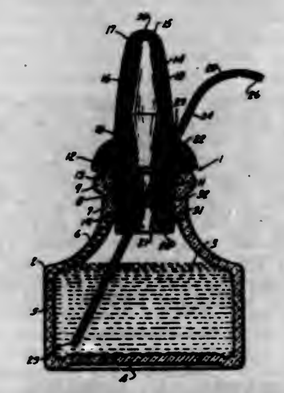
1. A humidifier comprising an air conduit having an enlargement in the wall thereof, a hollow porous container for a liquid located within said enlargement and spaced from said wall so that air passing through said conduit encircles said container, a source of liquid and conduits fixed to said wall supporting said container at the upper and lower portions thereof within said enlargement, said conduits being connected in a closed circuit with said source.

2,594,637
VENETIAN BLIND CONTROL
Thora Magdalena Gertzon, New York, N. Y.
Application November 1, 1948, Serial No. 57,633
5 Claims. (Cl. 160—168)



1. A Venetian blind control including an operating mechanism comprising a support box containing three pulleys, two of said pulleys journalled horizontally in said support box, a T-shaped carriage movably mounted in said box, a spring for actuating said carriage, one of said pulleys being journalled horizontally in said carriage, an operating cord passing through said pulleys, a bar movable inside said carriage, the position of said bar being controlled by the operating cord, a plunger movable in said box, said bar actuating said plunger vertically, said plunger controlling the relative position of said carriage by lateral movement of said bar by said operating cord.

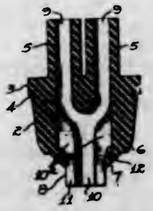
2,594,638
DRAFTSMAN'S INK DISPENSER
Fred I. Goodenow, Kansas City, Mo., and Julian Frank Goodenow, Jr., Johnson County, Kans.
Application September 5, 1947, Serial No. 772,370
1 Claim. (Cl. 120—57)



An ink dispenser comprising, a container having a single opening therein, a stopper formed of resilient material having a portion adapted for insertion into the container opening for sealing same, said stopper having a central passage therein opening to the interior of the container, a compressible top on said stopper and having a central chamber communicating through the

stopper passage with the interior of the container for movement of air to and from the container, and a delivery tube extending downwardly through the stopper into the contents of the container and having its outer end projecting outwardly through the stopper, said tube having a through longitudinal passage with openings only at the ends thereof for movement of the contents of the container, said compressible top having a slit remotely of the container and positioned to be selectively covered by a finger of an operator when applying pressure to the compressible top, said slit having edges which are normally resiliently engaged to close same, said slit opening only during compression and expansion of the compressible top to provide communication from the exterior of the stopper to the chamber, passage in the stopper and interior of the container whereby movement of ink out of and into the container through the delivery tube is effected by selective closing of the slit during compression and expansion respectively of the compressible top.

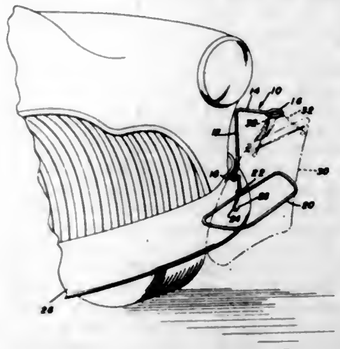
2,594,639
Y RUBBER STOPPER
Fred C. Gossett, Glendale, Calif., assignor to Don Baxter, Inc., Glendale, Calif., a corporation of Nevada
Application May 22, 1950, Serial No. 163,461
5 Claims. (Cl. 285—210)



1. A stopper for an administration assembly comprising, a body adapted to be set in a cylindrical neck, a Y-shaped passage within said body, including two upwardly extending passages joining an axial downwardly extending passage, slots in said body extending from diametrically opposite sides of the downwardly extending passage a distance substantially equal that of the spacing between the two upwardly extending passages thereby to facilitate the removal of a Y-shaped molding pin from the stopper.

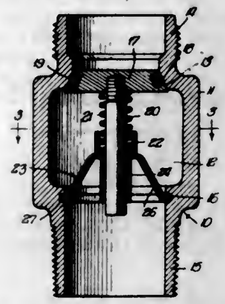
2,594,640
WATER BAG CARRIER
Ferdinand W. Greuling, El Paso, Tex., assignor of forty-nine per cent to William N. Greuling, El Paso, Tex.
Application December 18, 1950, Serial No. 201,290
3 Claims. (Cl. 224—42.03)

1. A water bag carrier of the type described, said carrier comprising a vertically elongated standard provided at its upper end with a substantially horizontal arm, an eye provided at the lower end of said standard to receive a mounting bolt, a horizontally elongated water bag receiving loop provided intermediate the ends of said standard, a second eye provided on said arm, and



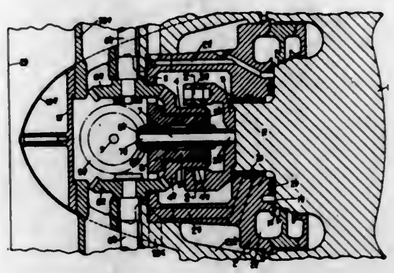
a hook provided on the standard between said arm and said loop, whereby suspension cords of a water bag positioned in the loop may be passed through said second eye and anchored on said hook.

2,594,641
CHECK VALVE
Leonard F. Griffith, Oak Park, and Douglas K. McIlvaine, Des Plaines, Ill., assignors to Henry Valve Company, Incorporated, Chicago, Ill., a corporation of Illinois
Application August 29, 1946, Serial No. 693,618
4 Claims. (Cl. 251—144)



1. In a valve construction of the type described, a hollow valve body providing a valve chamber in communication with inlet and outlet passages, a valve and attached stem reciprocable in said chamber, spring means urging said valve in one direction, and means for guiding said valve stem and sustaining said spring means, comprising a one-piece, tubular spider element slidably receiving said stem and provided with a plurality of outwardly extending, outwardly springable arms in substantially spaced relation to one another, said arms being inwardly compressed relative to said stem when said spider element is installed in said body and said body being springingly engageable by said arms on its internal surface to sustain said spider in the axial direction, said spider element including an axially extending, tubular, stem receiving portion and said arms being integrally connected by acute angle bends to one end of said portion and disposed rearwardly relative to that end and in axially overlapped relation to said portion.

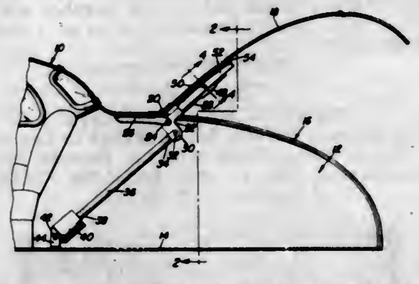
2,594,642
GEARING OF ACCESSORIES FOR GAS TURBINES
William Lawrence Gross and John Oliver Philip Hughes, Rugby, England, assignors to The English Electric Company Limited, London, England, a British company
Application February 21, 1949, Serial No. 77,642
In Great Britain February 26, 1948
8 Claims. (Cl. 230—132)



1. A gearing for the accessories of a gas turbine set having a compressor rotor, a compressor stator, and an air intake to the compressor stator in alignment with its axis, said gearing comprising a common gear box arranged within said air intake, fins having aerofoil cross section connecting said gear box with said air intake, shafts for the accessories passing through the said fins, two separate bevel gear systems arranged inside the said gear box, the one system comprising bevel gear wheels on some of said accessories shafts and a bevel gear wheel coaxial with and engaged with said compressor rotor and meshing with said bevel gear wheels on accessories shafts, the other system comprising a bevel gear pinion coaxial with and engaged with said compressor rotor and bevel gear wheels arranged on the other accessories shafts and meshing with said bevel gear pinion, the said first bevel gear system encompassing the said second bevel gear system, the apices of the said two separate systems being arranged closely to one another, axially slidable clutch means connecting the said two bevel gear systems with the said compressor rotor, a journal bearing and a thrust bearing for said compressor rotor arranged in the said gear box, the said two bevel gear systems being engaged with said compressor rotor by the said axially slidable clutch means only whereby it can be assembled and withdrawn in an axial direction.

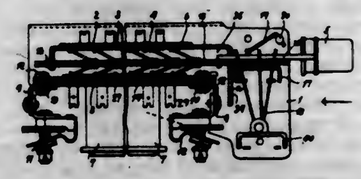
2,594,643
VEHICLE TRUNK LID CONTROL
Edward F. Gustisha, Waukegan, Ill.
Application June 16, 1950, Serial No. 168,496
1 Claim. (Cl. 268—74)

In a vehicle having a trunk compartment and a hinged lid thereon, a lid control comprising a bracket mounted in said compartment adjacent the hinged edge of said lid, a pivot pin provided on said bracket, a bell crank mounted on said pin and including a relatively long arm and a relatively short arm, means operatively connecting said long arm to the inner surface of said lid, a reversible electric motor pivotally mounted in said compartment, and a non-rotatable but axially shiftable shaft having a screw-threaded end portion in operative engagement with said motor, the remaining end of said shaft being pivoted to said short arm whereby said lid may be opened and closed by actuation of said motor, said means for connecting said long arm to said lid comprising a pair of spaced parallel bars se-



cured to the inner surface of the lid, and a block pivotally mounted between said bars and provided with an open-ended bore, said long arm being slidable in the bore of said block.

2,594,644
RADIO RECEIVER TUNING SWITCH
Harry Clifford Hansen, Charlottenlund, Denmark
Application December 11, 1947, Serial No. 791,104
In Denmark December 4, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires December 4, 1966
2 Claims. (Cl. 200—16)



1. A device for selectively tuning a radio receiver to any one of a plurality of pre-set wave lengths, comprising a main frame, a wall mounted in said main frame, a second wall parallel with and spaced from said first-mentioned wall, a secondary frame associated with said second-mentioned wall to form a structural unit therewith, said secondary frame being readily detachably connected with said main frame, a plurality of contact supporting members mounted in parallel relationship for slidable movement between said walls, a plurality of contact members mounted on each of said supporting members to project towards each of said walls for engagement with the surface thereof, a plurality of fixed contacts mounted on said first-mentioned wall in respective zones thereof facing the individual slidable contact supporting members, a plurality of fixed contacts mounted on said second-mentioned wall and arranged in positions to be connected each to an individual contact in said first-mentioned wall by means of the contacts of the said slidably mounted contact supporting members when set to predetermined positions, operating means for slidably moving said contact supporting members longitudinally of said plates to their operated positions, means having slots open at their ends facing away from said first-mentioned wall to guide said contact supporting members adjacent one end thereof, means for guiding said contact supporting members adjacent the other end thereof in a plane substantially perpendicular to said parallel spaced walls and operating members engaging each a slot in the last-mentioned end of a separate one of said

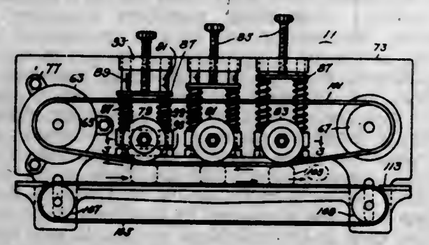
slidable contact supporting members, the said slots and the operating members cooperating with said slots being arranged to be released automatically from one another if the opposite ends of the contact supporting member are displaced in a plane perpendicular to said parallel spaced walls.

2,594,645
SHOWER BATH CABINET
Joe P. Harner, Nevada, Mo., assignor to The W. F. Norman Sheet Metal Mfg. Co., Nevada, Mo.
Application May 16, 1946, Serial No. 670,140
3 Claims. (Cl. 20—16)



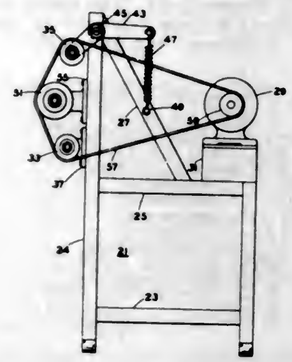
1. A shower bath cabinet including a door frame having a pair of door jambs, said door jambs constituting integral extensions of the side walls of said cabinet and including vertical tubular columns formed of inturned marginal portions comprising tubular beads, a detachable vertical hinge strip secured to each door jamb and having an edge seated in said tubular column, a plurality of hinges secured to said strip and a door panel secured to the hinges of each strip, each hinge strip having a vertical, semi-cylindrical hinge groove formed therein, said hinges having trunnions seated in said groove, a plurality of horizontal slots in said semi-cylindrical member, said hinges extending through and being guided and supported by the walls of said slots, the lower wall of said slots being vertically depressed at their ends to urge said hinges and panels by gravity to alternative open and shut position.

2,594,646
POLISHING MACHINE
Fritz E. Hendrickson, South Elgin, Ill., assignor of forty per cent to Bror G. Olving, Elgin, Ill.
Application November 30, 1946, Serial No. 713,277
2 Claims. (Cl. 51—141)



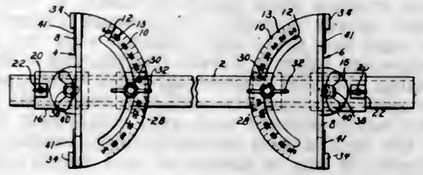
1. An automatic polishing machine comprising in combination, an endless polishing belt, a plurality of belt-backing work wheels supported in contact with the inside surface of said belt, each said wheel being separately movable toward and away from the belt, means for moving a piece of work along said belt past each of said work wheels in succession, and biasing means for pressing said work wheels against said inside surface of said belt, said means being adjusted to urge each said work wheel against said belt with a greater force than the work wheel succeeding it in the direction of travel of a work piece.

2,594,647
WORK WHEEL
Fritz E. Hendrickson, South Elgin, Ill., assignor of forty per cent to Bror G. Olving, Elgin, Ill.
Application August 2, 1947, Serial No. 765,717
2 Claims. (Cl. 51—135)



1. A polishing machine comprising an endless polishing belt, a pair of pulleys around which said belt passes, a self-ventilated belt-backing work wheel comprising a solid central portion and a flexible outer portion, air impellers secured one to each side of said solid central portion and air outlet means for said impellers for forcing cooling air into the contact area between the work and the polishing belt and between the polishing belt and the workwheel.

2,594,648
LAYOUT DEVICE
Ralph C. Hickernell, Meadville, Pa., assignor to Kopper Kraft Industries, Inc., Meadville, Pa., a corporation of Pennsylvania
Application April 17, 1950, Serial No. 156,283
4 Claims. (Cl. 33—26)



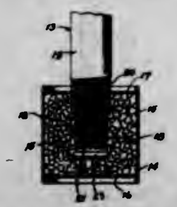
3. A layout device comprising an elongate rod-like body, and a pair of profile-piece supporting members, each of said members including a base and a substantially flat plate-like element upstanding therefrom, a pair of slide means on said body slidably adjustable lengthwise therealong, means for holding said slide means in adjusted lengthwise position on said body, pivot means respectively mounting said bases on said slide means for angular adjustment about parallel axes perpendicular with respect to the length of said body, means for holding said bases in angularly adjusted position, and means on each of said upstanding elements for affixing a flat-surface profile piece thereon, the last-named means each including fingers extending outwardly from the flat surface of one of said plate-like elements for supporting an edge of a flat profile piece, and clamping means on the element for clamping the flat surface of the edge supported profile piece thereagainst.

2,594,649
DUAL MANOMETER
James V. Hodshire, Oklahoma City, Okla.
Application March 16, 1948, Serial No. 15,133
2 Claims. (Cl. 73—401)



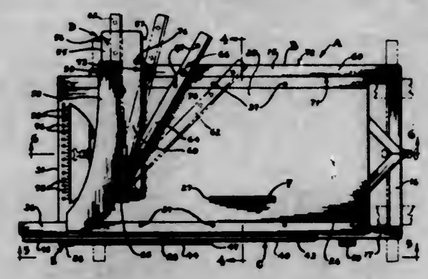
1. In a dual manometer, a support provided with an enlargement on its upper end, inner and outer U-shaped manometer tubes having their upper ends extending into said enlargement, there being spaced parallel vertical passages extending through said enlargement and communicating with the ends of the manometer tubes, there being a transverse opening traversing the vertically extending passages, a tapered valve stem rotatably positioned in said transverse opening and having openings therein adapted to be aligned with the vertical passages, and a measuring scale portion extending longitudinally of the support and positioned between the vertically extending portion of the inner tube.

2,594,650
FILTER CONSTRUCTION
George C. Hupperts, St. Charles, Ill.
Application October 3, 1949, Serial No. 119,339
1 Claim. (Cl. 210—98)



In a filter construction having a perforated shell, end closures for said shell, one of said closures having a threaded opening therethrough, and loose filtering material within said shell, the improvements comprising a first tubular member threaded at one end for engagement through the opening in said one end closure to extend into said shell, a second tubular member having circumferentially spaced longitudinally extending slots located adjacent one end thereof, and a cap enclosure at said one end of the second tubular member, the other end of second tubular member being arranged for frictional telescopic connection with the end of said first tubular member extending into the shell, the arrangement being such as to locate the slotted and capped end of the second tubular member in spaced relation to the other of said end closures for the shell and surrounded by said filtering material.

2,594,651
GUIDE FOR SAWING MACHINES HAVING RECIPROCATING CARRIAGES
Grover V. Jackson, New Port Richey, Fla.
Application July 11, 1949, Serial No. 104,012
6 Claims. (Cl. 143—169)

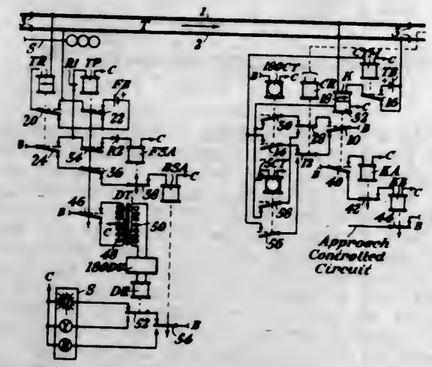


1. In a sawing machine, a frame including a fixed portion having a longitudinal side wall and a vertically-extending bracket carried by said wall, and a reciprocating, saw-carrying carriage, mounted upon said fixed portion and reciprocable in a path substantially paralleling said side wall; combined adjustable mitre cut guide and lumber rest means, including a support portion having an upper face, an elongated arm mounted upon the support portion and extending over a portion only of said upper face, and a guide arm pivotally carried by said elongated arm and movable over that portion of said face unoccupied by said elongated arm, a strip fixedly carried by said bracket and disposed to one side of said support portion and extending longitudinally of said fixed portion, means pivoting said support portion to said bracket so that said combined adjustable mitre cut guide and lumber rest may be positioned over said carriage when the former is in one position and positioned clear of the vertical plane of said carriage when in another position; and means to manually adjustably position said guide arm with respect to said strip and the path of reciprocation of said carriage.

2,594,652
CODED TRACK CIRCUIT SIGNALING SYSTEM WITH IMPROVED FEED-BACK CODE CIRCUITS
Arthur L. Jerome, Edgewood, Pa., assignor to Westinghouse Air Brake Company, a corporation of Pennsylvania
Application March 6, 1947, Serial No. 732,866
10 Claims. (Cl. 246—38)

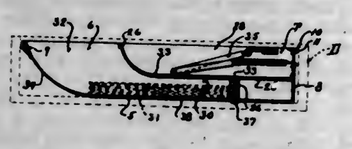
1. In means for indicating at both ends of a section of railway track the condition of occupancy of said section, in combination, a first code following track relay at the first end of said track section and a second code following track relay at the second end of said track section, each of said track relays having front and back contacts closed respectively according as the relay is energized by energy supplied to the relay winding over the section rails or is deenergized, a transmitter relay having a contact movable between a first position in which it effectively connects the winding of said first track relay across the rails of said section and a second position in which it

connects a source of energy across said section rails, a code transmitter having contacts movable between a first and a second position at a selected rate and occupying each of their two positions for substantially equal time intervals, an operating circuit including a first position contact of said code transmitter and a back contact of said first track relay for moving the contact of said transmitter relay from its first to its second position, code detecting means responsive to alternate establishment of circuits governed over front and back contacts of said first track relay, means for prolonging the picked-up periods of said first track relay to thereby facilitate operation of said code detecting means without interfering with the control by said track relay of the circuit of said transmitter relay, said means comprising a circuit including a front contact of said first track relay and a second position contact of said code transmitter, a repeater relay to which en-



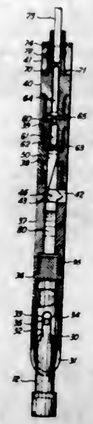
ergy is supplied over a front contact of said second track relay, a circuit including a back contact of said repeater relay for connecting the winding of said second track relay across said section rails, a circuit including a front contact of said second track relay for also connecting the winding of said second track relay across said section rails, a circuit including a front contact of said repeater relay and a back contact of said second track relay for connecting a source of energy across said track rails, and means for detecting operation of said second track relay, said means comprising a slow acting relay energized by a circuit including front contacts of said second track relay and said repeater relay in series, and a slow release relay energized by a circuit including back contacts of said second track relay and said repeater relay and a front contact of said slow acting relay in series.

2,594,653
CASH DRAWER OR TILL TRAY
James L. Jertson, Milwaukee, Wis.
Application September 18, 1950, Serial No. 185,463
2 Claims. (Cl. 206—0.81)



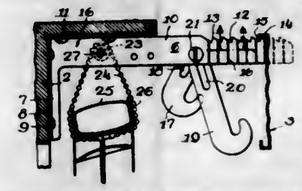
1. A till tray or drawer comprising bottom, side, rear and front walls, said front wall extending from the upper edge of the tray in an arcuate path to the bottom wall, a horizontal partition extending longitudinally from the rear wall in a plane intermediate the upper edge and bottom thereof in spaced parallel relation to the bottom wall and terminating in an upward arcuate path short of and in front of the front wall adjacent the upper edge of the tray, a vertical partition on the horizontal partition extending from the rear wall to the curved front end of the horizontal partition and extending from the horizontal partition to the upper edge of the tray, longitudinal partitions associated with the horizontal partition adjacent the side and front portions thereof extending from the upper edge of the tray to the bottom wall, said horizontal partition defining with the rear wall, vertical partition, and longitudinal partitions a lower check receiving compartment and upper currency compartments, the said spacing of the horizontal partition from the front wall defining a wide arcuate shaped entrance throat into the check compartment, said entrance throat, check compartment and upper currency compartments forming one section of said tray, and transverse and longitudinally extending partitions in the remaining section of the tray extending from the upper edge of the tray to the bottom wall and defining compartments for paper currency and coins.

2,594,654
PIPE CUTTER
John R. Jobe, Houston, Tex.
Application February 26, 1948, Serial No. 11,281
12 Claims. (Cl. 164—0.4)



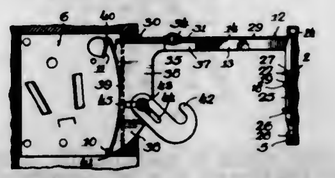
1. A tool for cutting pipe comprising a body having therein a chamber to receive an explosive, a tubular opening in said body extending through a side surface of said body, a cutting member reciprocatingly received in said opening, means to fire an explosive when placed in said chamber, and means to communicate the force of the resulting explosion to the rear of said cutting member, the front end of said cutting member tapering to a substantially straight sharp edge and having a shoulder back of said tapered portion lying in a plane perpendicular to the direction of travel of said member to engage said pipe to prevent the cutting member from passing through a cut made thereby and to cause the whole cutting member to rebound back into said opening, but said portion of said member having the shoulder being free to move through said opening in said body.

2,594,655
CORNICE SUPPORT BRACKET
Béla B. Junkunc, Chicago, Ill., assignor to Béla B. Junkunc, Alexander Junkunc, Sr., Alexander Junkunc, Jr., and Joseph G. Junkunc, doing business as J. & J. Tool and Machine Co., Chicago, Ill., a partnership
Application June 16, 1949, Serial No. 99,522
5 Claims. (Cl. 160—19)



3. A cornice support bracket comprising a horizontal leg adapted to engage one edge of a cornice, said horizontal leg being longer than the desired distance between the cornice and the surface adjacent which the cornice is mounted, and means on said horizontal leg to facilitate breaking a portion of the foremost end of said horizontal leg to fit said leg to the desired distance between the cornice and the surface adjacent which it is supported.

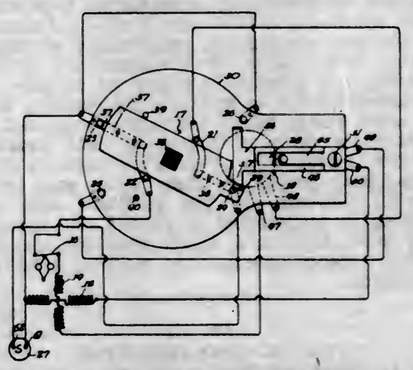
2,594,656
CORNICE MOUNTING BRACKET
Béla B. Junkunc, Chicago, Ill., assignor to Béla B. Junkunc, Alexander Junkunc, Sr., Alexander Junkunc, Jr., and Joseph G. Junkunc, doing business as J. & J. Tool and Machine Co., Chicago, Ill., a partnership
Application June 16, 1949, Serial No. 99,525
16 Claims. (Cl. 160—38)



1. A bracket for mounting a cornice having inturned flanges at its top and bottom edges, said bracket comprising an L-shaped member having a top wall and a front wall, said front wall being engageable with the rear surface of the cornice, and means for engaging the opposing surfaces of each of the said inturned flanges whereby the cornice may be rigidly secured to the bracket.

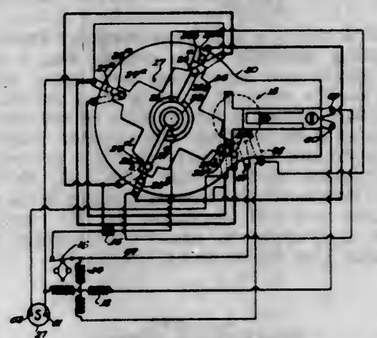
2,594,657
CONTROL SWITCH AND CIRCUIT FOR INDUCTION MOTORS
John C. Koons, Fort Wayne, Ind., assignor to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application June 4, 1947, Serial No. 752,431
9 Claims. (Cl. 318—207)

1. A control device for starting, stopping and readily reversing a single-phase induction motor of the type having a main running winding and an auxiliary starting winding and a speed-responsive device for disconnecting the auxiliary winding from its source, comprising a phase-reversing switch electrically in circuit between the auxiliary winding and its energy source, said switch including an arm mounted for rotation between two extreme phase-determining positions and intermediate open-circuit positions, a pair of contacts electrically in circuit between the main winding and its source, stabilizing means for urging the contacts in closed relationship when they are closed or in open relationship when they are opened, a relay adapted to be energized only when the auxiliary winding is energized for closing the contacts, said relay including an armature carrying one of said contacts, said arm hav-



ing a cam so arranged as to lift the armature and to open the contacts on initial rotation away from either phase-determining position but to free them on continued rotation of the arm toward the other reverse-phase position, whereupon in one operation the main winding is deenergized to permit the motor to slow down until the speed-responsive means connects the starting winding to its source for energization, when the relay is energized to close the contacts and to energize the main winding, thereby to reverse the motor.

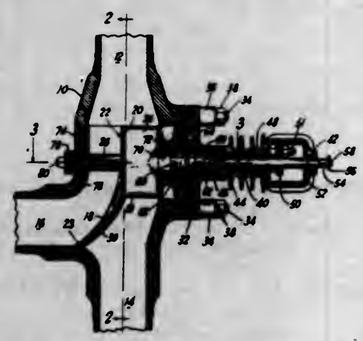
2,594,658
INDUCTION MOTOR CONTROL SWITCH AND CIRCUIT
John C. Koons, Fort Wayne, Ind., assignor to The Magnavox Company, Fort Wayne, Ind., a corporation of Delaware
Application July 23, 1947, Serial No. 762,927
5 Claims. (Cl. 318—207)



1. A control device for reversing a single-phase inducton motor of the type having a main running winding and an auxiliary starting winding and a speed-responsive device for disconnecting the auxiliary winding from its source comprising, in combination, a base member, a phase reversing switch for one of the windings consisting of a member mounted for unlimited rotary movement on said base member and a plurality of conductive wipers secured to the arm and conduc-

tive contacts secured to the base, said contacts and wipers and associated connections being so arranged that the rotary switch has a plurality of kinds of operative positions, one in which it causes currents of one phase to flow in said one winding, another in which it uncouples said one winding from its source, and still another kind of position in which it causes currents of shifted polarity to flow in said one winding, a snap-action switch mounted on the base and having contacts electrically in series circuit between the main winding and its source, a solenoid mounted on the base and having an exciting winding in circuit relationship to the auxiliary winding whereby the solenoid is energized to close said contacts thereby to energize the running winding when the auxiliary winding is energized, and a plurality of cam means on said rotatably mounted member for opening the contacts of said snap-action switch, whereby when said arm is rotated between any two positions said main winding is deenergized to permit said motor to slow down to such a degree that the speed-responsive means connects the starting winding to its source.

2,594,659
VALVE CONSTRUCTION
Ivar L. Langvand, Barberton, Ohio, assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey
Application February 7, 1948, Serial No. 6,907
8 Claims. (Cl. 277—19)



5. In a valve, a one piece metallic valve body presenting separate valve outlets and a transverse diaphragm separating flow paths extending from the valve interior to said outlets, said diaphragm having a line section of reduced wall thickness at an intermediate position relative to the diaphragm width and extending generally in the direction of fluid flow, the wall thickness of said line section of the diaphragm being much less than the wall thickness of the remainder of the diaphragm to present a thermal stress localizing line across the diaphragm.

2,594,660
ROENTGEN METER
Charles C. Lauritsen, Pasadena, Calif., assignor to California Institute Research Foundation, Pasadena, Calif., a corporation of California
Application October 15, 1949, Serial No. 121,510
2 Claims. (Cl. 250—83.6)

1. The combination with a Roentgen meter involving a body structure having an ion chamber and an electroscope having a charge receiving element, of an electrostatic charge generator involving: a rotatable band mounted on said body structure and having an outer manually engageable surface to effect rotation and an inner electrostatically chargeable surface; a wiper within said body structure engageable with the inner surface of said band for generating a charge thereon; and an arcuate strip frictionally engageable with said rotatable band and including a tongue movable by said band into and out of engagement with the charge receiving element of said electroscope.



2,594,661
FISH IMPALING PIN
Karl T. Lehmann, St. Charles, Mo.
Application July 15, 1949, Serial No. 105,018
1 Claim. (Cl. 24—159)

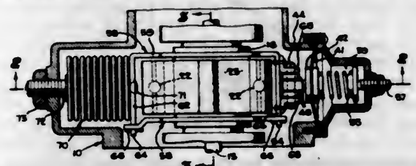


As a new article of manufacture, a snap-fastener for attachment to a fish comprising a substantially triangular spring wire frame having a pair of duplicate limbs converging and joined together at corresponding ends by way of a spring coil, the diverging ends of said limbs being provided with complemental lateral bends directed toward each other, and a clasp embodying a flat plate provided along one marginal edge with longitudinally spaced individual sleeves, one sleeve embracing an adjacent limb, the other sleeve embracing an adjacent portion of said coil, one corner portion of said plate having a catch for reception and retention of an intermediate portion of the other limb.

2,594,662
METERING FUEL PUMP
William E. Leibing, Los Angeles, Calif.
Application December 13, 1948, Serial No. 65,031
5 Claims. (Cl. 103—161)

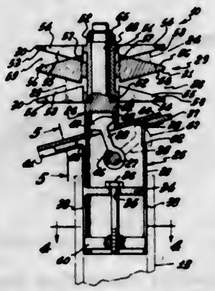
1. In a pump, the combination of a housing; a rotor mounted to turn in the housing; a plurality of positive displacement pump elements mounted for radial movement on the rotor; a rotatable sleeve encircling the rotor and cooperating with each of said pump elements; means including a movable member in the housing adapted to shift

the sleeve to vary the stroke of the pump elements; vacuum operated means adapted to shift the position of said movable member and thereby vary the rate of delivery of fuel from said pump elements; altitude correction means including an expansible sealed member mounted within the housing on the opposite side of the rotor from



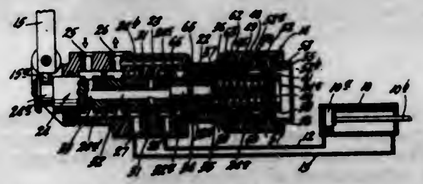
said vacuum operated means; and means connecting the sealed member with said movable member whereby the sealed member may act in tension to oppose the action of the vacuum operated means under high vacuum conditions and to shift the movable member in a direction to reduce the stroke of the pump elements under low vacuum conditions.

2,594,663
SPEED CONTROL APPARATUS
Martin Lindell, West Los Angeles, Calif.
Application July 15, 1949, Serial No. 104,873
3 Claims. (Cl. 74—230.17)



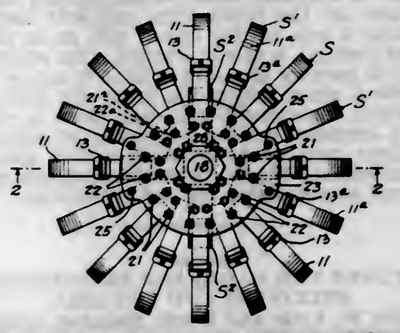
1. Speed control apparatus comprising a base having a tubular mounting portion telescopically engageable with an interfitting support member to mount the base thereto, a body, means mounting said body to the base in proximate relation to said tubular portion thereof and for movement relative thereto along a path extending transversely of said tubular portion, a movable member mounted partially within said tubular portion of the base and operable to move said body relative to the base along said path, an actuating member having a portion at the outside of said tubular portion of the base and operatively connected to said movable member to control the operation thereof, a pair of sheave sections mounted to the body in axially spaced relation and for rotation about a common axis extending transversely of said path of movement of the body, said sections having radially tapered inner faces, a third sheave section rotatable between said outer sections and about their axis and having a pair of radially tapered faces at its opposite sides in opposed and spaced relation to said tapered faces of the pair of sections to form therewith a pair of annular belt receiving grooves, and means mounting said sections to the body for said rotation and for relative axial movement between the third section and said pair of sections as a unit to vary the relative sizes of said grooves.

2,594,664
HYDRAULIC CONTROL VALVE WITH AUTOMATIC HOLD AND RELEASE
Carlos B. Livers, North Hollywood, and Alvin A. Meddock, Van Nuys, Calif., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 31, 1949, Serial No. 124,711
10 Claims. (Cl. 121—46.5)



1. A valve of the type described comprising: a body member having inlet and outlet ports and a motor port, and a movable member movable in the body member between a neutral and an actuated position, said body and movable members having cooperating passages and surfaces for connecting said inlet port to said motor port in the actuated position, and for disconnecting said inlet and outlet ports from said motor port in said neutral position; restoring means yieldably urging said movable member toward said neutral position; detent means normally effective to hold said movable member in actuated position against the force of said restoring means; and pressure-responsive means responsive to pressure exceeding a predetermined pressure in said inlet port for disabling said detent means to permit return of said movable member to neutral by said restoring means, said detent means comprising a spring detent on one of said members and a pair of relatively movable elements on the other member, said elements being normally separated to provide therebetween a gap engageable by said detent in said actuated position of said movable member, said elements being moved toward each other into abutting relation to eliminate said gap by actuation of said pressure responsive means.

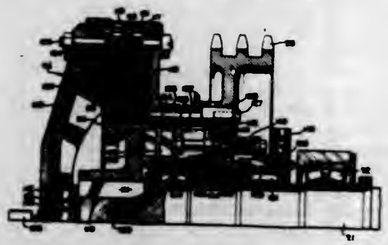
2,594,665
MECHANICAL CUSHIONING DEVICE
Jack C. Lockwood, Los Angeles, Calif.
Application March 6, 1950, Serial No. 147,836
10 Claims. (Cl. 267—28)



1. A mechanical cushioning device of the class described comprising: a plurality of supporting elements; means mounting said elements coaxially for rectilinear movements towards and away from each other; a multiplicity of spring cushioning members of generally V-shaped outline having flexible fulcrum-forming apexes;

means operatively connecting the free end portions of said members to said elements, with said members radially disposed in circumferentially spaced relation for co-action in distributing among them in radially traveling waves from one of said elements to the other, shocks imposed on either element, by flexing of said members at said fulcrum-forming apexes; each of said members being composed of sections overlapping at said apexes; and means operatively connecting the overlapped portions of said sections against relative lateral displacement.

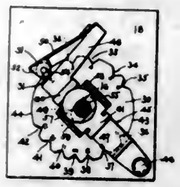
2,594,666
CLUTCH ASSEMBLY FOR DRAWWORKS
Spencer W. Long, Inglewood, Calif., assignor to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 13, 1949, Serial No. 87,249
4 Claims. (Cl. 192—48)



4. In a device of the class described, having a shaft rotatably mounted upon spaced bearings and an overhanging end of the shaft extending beyond one of the bearings, the combination of a hub member fixed on the overhanging portion of the shaft, a pair of spaced roller bearings supported on said shaft between the hub member and the shaft bearing, a power-transmitting member mounted on said spaced roller bearings for rotation relative to the shaft, releasable mechanical means for effecting a positive driving engagement between said members, said means including an axially slidable clutch ring carried on one of said members and splined to rotate therewith, axially engageable bevel jaws on the clutch ring and the other member whereby the clutch ring may drive the member and whereby overrunning of the member with respect to the clutch ring automatically moves the clutch ring axially to disengage the jaws, cooperating conical surfaces on the clutch ring and said member forming a seat for the clutch ring in its disengaged position, a pair of friction disks encircling the hub member and each splined to one of said members, means adapted to bring said disks into frictional engagement with each other to establish a frictional driving connection between said members, said means including a fluid actuated piston supported by the power-transmitting member and encompassing the end of the shaft.

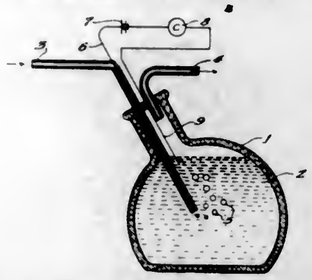
2,594,667
TUNER FOR RADIO AND TELEVISION RECEIVERS AND THE LIKE
Chester W. Lytle and Frank Nienaber, Chicago, Ill., assignors, by mesne assignments, to Lytle Engineering & Mfg. Co., a corporation of Illinois
Application December 5, 1949, Serial No. 131,158
13 Claims. (Cl. 74—10.41)

1. In a tuner for tuning to a selected frequency of a plurality of radio frequencies, the combination of a movable frequency tuning element movable to various positions to tune corresponding frequencies, means to move said element for tuning purposes, an index plate movable harmoniously with said movable element, irregularities carried by said index plate corresponding to



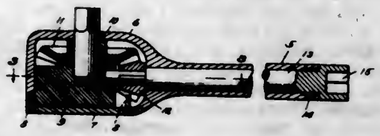
various frequencies to be tuned, means to engage said irregularities under yieldable pressure, and manual means to move said engaging means while engaged with a selected irregularity of the index plate for correction tuning purposes, substantially as described.

2,594,668
FLOWMETER
Clifford Mannal, Schenectady, N. Y., assignor, by mesne assignments, to the United States of America as represented by the United States Atomic Energy Commission
Application January 12, 1950, Serial No. 138,231
3 Claims. (Cl. 73—194)



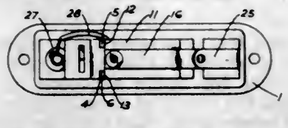
1. A flow meter for measuring small gas flows comprising a vessel containing an electrolyte, a gas-inlet capillary tube terminating below the electrolyte level, a fine wire electrode terminating in the capillary opening at the submerged end of said tube, a second electrode in contact with said electrolyte, means for supplying an electric current to the circuit consisting of said electrolyte and said electrodes, and means for counting the number of interruptions in said circuit when a gas flows through said capillary tube.

2,594,669
GEAR-OPERATED WRENCH CONSTRUCTION
Calvert D. Marshall, Georgetown, Ky.
Application May 10, 1949, Serial No. 92,390
1 Claim. (Cl. 81—57)



A wrench comprising a hollow handle, a hollow head formed integral with the handle at one end thereof, a removable bearing block mounted within the hollow head in contact with the wall thereof, said bearing block having an opening in one side surface thereof, a main socket shaft resting within the opening and extending beyond the surface of the housing wall through which the shaft extends, and on which a socket member is removably positioned, a beveled gear in the head mounted on the inner end of the socket shaft for rotation therewith, said beveled gear occupying the space between the block and adjacent surface of the hollow head, a power shaft extending through the handle, said power shaft having a reduced inner end fitted in a bearing opening formed in one end of the bearing block, a pinion on the reduced end of the power shaft cooperating with the beveled gear of the shaft and rotating the main socket shaft and pinion, and a cover plate closing the side of the hollow head, said cover plate contacting with the block providing a bearing support for the block securing the bearing block within the hollow head.

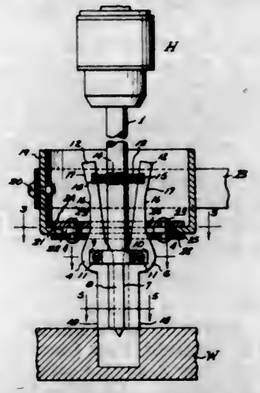
2,594,670
CONTROL RELAY
Robert G. Mawney, Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
Application July 16, 1949, Serial No. 105,176
4 Claims. (Cl. 200—87)



2. A unitary control device for a motor having starting and running windings, comprising a base, an electromagnet mounted on the base, an armature movably mounted for cooperation with said electromagnet, a first contact mounted on said base, a second contact carried by said armature for movement thereby and adapted to engage said first contact, a third contact mounted on said base and movable toward and away from said first contact, said third contact being normally biased away from said first contact, and said second contact being positioned between said first contact and said third contact, whereby, upon motion of said third contact toward said first contact, said second contact is brought into engagement with said first contact, and means for preventing said second contact from leaving its engagement with said third contact upon energization of said electromagnet during circuit closing motion of said contacts, said means comprising resilient mountings for said first and third contacts, the mounting for said third contact positioning the latter so that its face is inclined at an angle to the face of said first contact, and the mounting for said second contact permitting said second contact to move, during a part of its travel, along the face of the first contact and to wedge into the space formed by the angle between the faces of said first and third contacts.

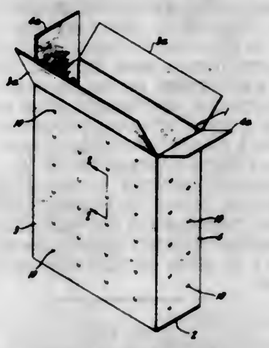
2,594,671
INTERNAL REVERSE TAPER REAMER
Henry McTyre and Samuel H. Aspden, Natchitoches, La.
Application January 27, 1948, Serial No. 4,546
2 Claims. (Cl. 145—124)

1. In an internal reverse taper reamer, a rotary shaft having diametrically opposed laterally arranged and longitudinally extending grooves along one end forming right angular seats, a plurality of removably and pivotally mounted diametrically arranged expansible cutter blades normally positioned in said seats, said blades having normally parallel lower cutting edges when the lower portions of the blades are disposed in the grooves, a shank on each blade disposed above the pivots, each shank having a straight edge and an outwardly diverging cam edge thereabove, spring means carried by the bit normally urging the shanks apart to position the blades in said



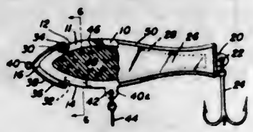
grooves, a fixed circular holder around the bit and shanks and having an inturned bottom flange, and a guide rotatably mounted on said holder and comprising upper and lower plates above and below the flange respectively and rollers between the plates having pivot pins connecting the same, said rollers engaging the flange edge and one of the plates each having a slot receiving the shanks therethrough to force the shanks inwardly and spread the blades when moved longitudinally of the bit in drilling.

2,594,672
PACKAGED REFRIGERANT
William E. Moore, Oakland, Calif.
Application January 12, 1948, Serial No. 1,752
5 Claims. (Cl. 62—1)



1. A disposable refrigerating unit comprising: a rectangular cardboard container; a body of finely divided material disposed in said container; inwardly opening check valves formed in the side walls of said container, said check valves permitting ingress of water into said container and preventing the egress of said finely divided material from said container.

2,594,673
FISHING LURE
Mary L. Nichols, Santa Ana, Calif., assignor to John T. Nichols, Santa Ana, Calif.
Application November 6, 1947, Serial No. 784,377
1 Claim. (Cl. 43—42.33)



An artificial lure comprising a body formed of a flat piece of metal and including a head portion having forwardly converging arcuate side edges, mirrors rigidly secured on opposite sides of said body and conforming to the shape of said body, hook engaging means integrally formed with said body, a bridle pivotally carried by said head portion, and means sealing the edges of said body to the edges of said mirror, said body including a central opening, and a flat buoyant element fitting in said central opening.

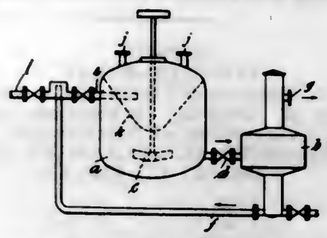
2,594,674
MOTOR MOUNTING
Albert B. Nietfeld, Fort Laramie, Wyo.
Application May 2, 1947, Serial No. 745,503
2 Claims. (Cl. 248—23)



1. A motor mounting comprising an elongated stationary frame including complementary end walls and complementary side walls, rods disposed in the frame and secured to the end walls, said rods being disposed between the side walls and substantially parallel thereto and to one another, a motor supporting carriage slidably engaging said rods, abutment means slidably mounted on the rods between the carriage and one end wall, a toggle joint extending between the carriage and said abutment means having one end pivoted to the abutment means and its opposite end pivoted to the carriage, stop means connected to the rods between said end wall and the abutment means and limiting sliding movement of the abutment means in a direction away from the carriage, said toggle joint retaining the carriage in a belt tensioning position remote to the abutment means when the toggle joint is extended, the intermediate pivot of the toggle joint being movable upwardly across a straight line joining its end pivots to permit the carriage to slide on the rods toward the abutment means to a belt releasing position and to permit the abutment means to slide on the rods away from the stop means.

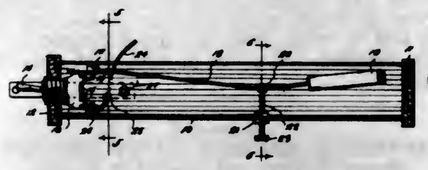
2,594,675
LIQUID REACTOR
Karl Torvald Norell, Bofors, Sweden, assignor to Aktiebolaget Bofors, Bofors, Sweden, a Swedish corporation
Application March 28, 1949, Serial No. 83,972
In Sweden November 19, 1945
4 Claims. (Cl. 23—270.5)

1. Apparatus for contacting two liquids which are immiscible and of different densities comprising a stationary, substantially cylindrical vertically disposed treating vessel adapted to contain a body of liquid, a rotary stirrer positioned within said vessel at a substantial distance from the top thereof with its axis of rotation adjacent the vertical axis thereof, said stirrer being adapted to dip into said body of liquid and having blades so inclined that when rotated a substantially conical crater in said body of liquid is created, means for withdrawing liquid by gravity flow from said vessel at a level below the vortex of said crater; said means comprising a liquid outlet opening in the wall of the vessel located below said vortex, a liquid inlet to said vessel comprising a conduit extending substantially horizontally through the wall of said vessel to a point within said crater and at a substantial distance below the crest thereof, a stationary vertically disposed separating vessel positioned



adjacent said treating vessel, said separating vessel having an outlet for liquid adjacent its upper end, an outlet for liquid adjacent its lower end and an inlet for liquid at a point intermediate its upper and lower ends, said inlet for liquid to said separating vessel being positioned at substantially the same level as the liquid outlet opening in said treating vessel and said outlet for liquid adjacent the upper end of said separating vessel being at least as high as the liquid inlet conduit to said treating vessel but below the crest of said crater, a conduit connecting the outlet opening in the wall of the treating vessel with the inlet of the separating vessel, a conduit connecting one only of the liquid outlets from said separating vessel to the liquid inlet to said treating vessel and means in the last named conduit permitting flow of liquid from the separating vessel to the treating vessel but automatically preventing flow of liquid in the opposite direction.

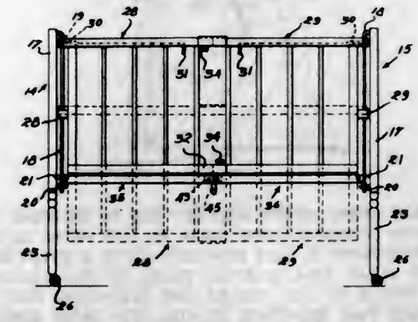
2,594,676
AUTOMOBILE THEFT ALARM
Donald H. Novak, Gary, Ind.
Continuation of application Serial No. 109,843, August 12, 1949. This application August 29, 1951, Serial No. 244,169.
2 Claims. (Cl. 200—52)



2. A control device for a signal comprising an elongated metal casing having an open end, a bracket secured to the casing for attaching the device to a mounting, an insulator closing said open end, a hole provided in the insulator, a switch comprising a housing, means extending

through the hole and means connected to the extending means for securing the housing in the casing, a switchback of insulating material carried by the housing, a pair of terminals mounted on the switchback, bridge means in the housing for engaging the terminals, means for operating the bridge means, elongated metal flexible means detachably mounted on one of said terminals and extending longitudinally in the casing, a weight secured to the free end of the flexible means, contact means carried by the flexible means, an adjustable contact carried by the casing for engagement with the contact means on said flexible means, and a conductor wire connected to the other of said terminals.

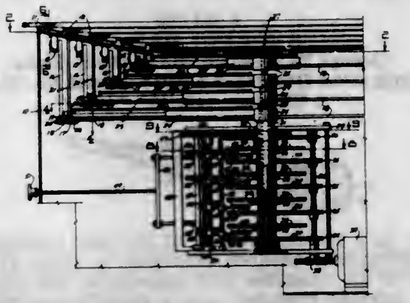
2,594,677
PORTABLE BABY CRIB
Kermit H. Opie, Paris, Mo.
Application June 28, 1946, Serial No. 680,298
2 Claims. (Cl. 5—99)



1. In a portable folding crib of the class described, a head section, vertical rigidly mounted side wall attaching rods secured to and disposed in spaced parallelism with vertical end portions of said head section, the upper portions of said rods being provided with oppositely aligned endless grooves, said grooves functioning as constantly available keeper seats, a pair of duplicate vertical side wall sections, corresponding ends of said side wall sections being hingedly mounted on said rods, each side wall section being of a length corresponding to the width of said head section and said side wall sections being swingable inwardly against the head section and into compact overlapping relation, the upper hinged portions of said side wall sections being provided with manually operable projectible and retractible latch pins, said latch pins being frictionally and slidably mounted and corresponding ends thereof being releasably engaged in said keeper seats, said latch pins and keeper seats serving to permit the aforementioned folding of the side wall sections while the latch pins are still engaged in said seats and further permitting the side wall sections to be temporarily unlatched and dropped for vertical slidable movement on said rods.

2,594,678
MAGNETIC RACING AMUSEMENT DEVICE
Donald C. Parke and Richard E. Sealer, Denver, Colo.
Application April 12, 1948, Serial No. 20,476
4 Claims. (Cl. 273—86)

3. A toy racing game comprising: a track plate; ridges on said track plate dividing the surface of the latter into a plurality of endless raceways; a vehicle positioned in each race-way, the path of travel of each vehicle being defined by the adjacent ridges; magnetic material carried by each vehicle; an endless guide track below and following the contour of each race-way; a magnet mounted to travel along each guide track, there being one magnet positioned below each race-way; a vertical center shaft positioned below said plate; a plurality of tubular shafts surrounding said center shaft; an arm extending from said center shaft and supporting one of said magnets; an arm extending from each of said tubular shafts, each arm supporting one of the remaining magnets, said arms being extensible to allow said magnets to follow the contours of their respective guide tracks; a drive disc se-



cured on each of said shafts; a constantly rotating ratchet wheel positioned adjacent each drive disc; a ratchet dog pivoted intermediate its extremities to each drive disc so as to engage the adjacent ratchet wheel at its one extremity to cause said disc to rotate therewith; a rotating chance shaft positioned in parallel relation to said center shaft adjacent said discs; and chance arms projecting from said chance shaft into the path of the other extremities of said ratchet dogs to engage the latter when the positions of the dogs and the arms coincide to cause the first extremities of said dogs to release said ratchet wheels at indeterminate intervals.

2,594,679
CODE MARKING DEVICE FOR LABELS
Ernest E. Pohl, Elmhurst, N. Y., assignor to American Machine and Foundry Company, a corporation of New Jersey
Application Febraury 26, 1949, Serial No. 78,510
2 Claims. (Cl. 101—228)



1. In a code-marker for printing notched label material in strip form, a train of parallel feeding and guiding rollers arranged generally in the same plane, said train of rollers comprising first and second spaced feeding rollers having spaced lugs on their peripheries adapted to engage the notches in said label material, a pair of strip guiding rollers, said guiding rollers being positioned between said feeding rollers so that one of said guiding rollers contacts the first of said feeding rollers and the other of said guiding

rollers contacts the second of said rollers, a printing roller having marking means on the periphery thereof engaging the first of said feeding rollers in rolling contact therewith, means for supplying ink to said printing roller, all of said rollers being geared together for conjoint rotation, said label material being directed first downwardly between said guiding rollers, then between said first guiding roller and said first feeding roller, and then between said second feeding roller and said second guiding roller to thereby provide a wrap of said material around the periphery of said first feeding roller.

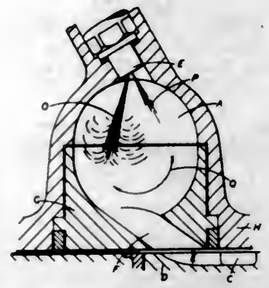
2,594,680
SMOKING DEVICE
George W. Rehfeld, Manhattan, Kans.
Application December 4, 1948, Serial No. 63,518
5 Claims. (Cl. 131—191)



1. In a smoking device of the type comprising a cylindrical tobacco chamber, a stem at one end of the chamber and adapted to telescope in the tobacco chamber and a mouthpiece carried by the stem, wherein all of the parts are in axial alignment and in interconnected relation, said tobacco chamber including a cylindrical member completely open at the end opposite said stem and having outwardly extending lugs arranged in spaced relation about the periphery of said open end, and a tubular end member open at both ends and slidable axially on the cylindrical member from a retracted position for inserting and packing tobacco within the open end of the cylindrical member without interference by said end member to a position projecting forwardly of said open end to receive the packed tobacco therein upon manipulation of the stem in said cylindrical member, said tubular end member being provided intermediate said ends with an annular series of openings conforming in shape with a plane geometrical figure having greater length than width and adapted for slidably receiving the lugs and supplying air to the tobacco, the long sides of said openings being sufficiently close to each other to define narrow bars substantially parallel with the longitudinal axis of the tubular member and slidable between the lugs, and the opposite ends of the openings defining sections of annular walls alternately engaged by the lugs when said tubular end member is moved to its respective positions.

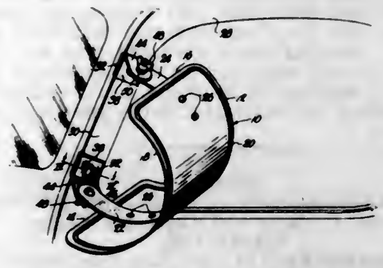
2,594,681
INTERNAL-COMBUSTION ENGINE
Harry Ralph Ricardo, London, and George Allen Holt, Shoreham-by-Sea, England, assignors, by direct and mesne assignments, to Ricardo & Co. Engineers (1927) Limited, London, England, a company of Great Britain
Application March 2, 1948, Serial No. 12,558
In Great Britain March 7, 1947
6 Claims. (Cl. 123—32)

1. In an internal combustion engine operating with compression ignition and comprising a cylinder, a combustion space constituted at least partly by a chamber external to the cylinder and into which at least a substantial part of the air charge is forced by the piston at the end of its instroke, means for causing the air charge to whirl about a center in said chamber, the combination with means for injecting fuel into said chamber including fuel injection nozzle means having at least two injection orifices, including an upstream orifice of which the axis has a substantial component in a direction opposite to that in which the air charge rotates in the combustion chamber, and another orifice of which the axis has no substantial component in a direction opposite to that in which the air charge rotates in the combustion chamber, of valve means controlling the flow of fuel to the two orifices and opening automatically in response to increase in fuel pressure, the cross sectional area of the upstream orifice being invariable by the valve means and small in relation to that of the other orifice, said valve means including a part projecting into



the said other orifice and serving to increase its effective cross-sectional area as the valve opens with increases in fuel pressure above a predetermined value, and a single pump of the plunger type driven by the engine and delivering fuel to the said fuel injection means, the valve means opening the upstream injection orifice at a lower fuel pressure than that at which it opens the other orifice, whereby at low rates of fuel delivery the upstream injection orifice only opens, whereas the higher rates of fuel injection the resistance to flow through the upstream orifice causes fuel pressure to be built up until the other injection orifice is opened and, for pressure increases above that just sufficient to open said other orifice, the effective cross section of said other orifice is increased with increase in pressure.

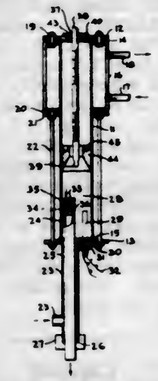
2,594,682
AIR SCOOP FOR AUTOMOBILES
George L. Ritch, Harrisonville, Mo.
Application August 1, 1949, Serial No. 107,865
3 Claims. (Cl. 98—2)



1. An air scoop comprising an elongated, longitudinally arched, transversely straight panel having a pair of spaced ends; mounting means extending outwardly beyond each end respectively of the panel; an L-shaped bracket for each

mounting means respectively, each bracket having a leg pivotally secured to a corresponding mounting means; and means on the other leg of each bracket respectively for attaching the same to an upright portion of an automobile window frame, the pivotal axis between the brackets and the mounting means being substantially parallel with said upright portion whereby to render the panel swingable into and out of the automobile through the window frame.

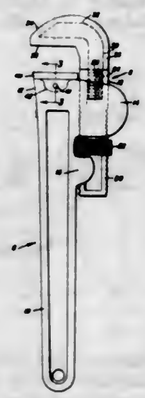
2,594,683
BOILING-POINT APPARATUS
Francis B. Rolfson, San Pablo, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application December 11, 1950, Serial No. 200,148
5 Claims. (Cl. 73—17)



1. An apparatus for continuously determining the boiling point of a predetermined fraction of a liquid mixture having a varying boiling point, said apparatus comprising a distillation chamber, inlet conduit means opening to said chamber for introducing a continuous stream of liquid mixture thereinto, outlet conduit means opening to said chamber at a predetermined height for discharging liquid therefrom and thereby maintaining the liquid level in said chamber at a predetermined level, means for heating the lower portion of said chamber to vaporize the lighter components of said liquid mixture, a condenser for cooling the upper portion of said chamber to condense the vapors of said lighter components, trap means secured to the inner wall of said chamber above the liquid level therein for collecting said condensed vapors, the capacity volume of said trap means bearing a predetermined ratio to the volume of the liquid standing in said chamber, and temperature-sensing means carried within said chamber below the level of said trap means for determining continuously the temperature of the vapor therein.

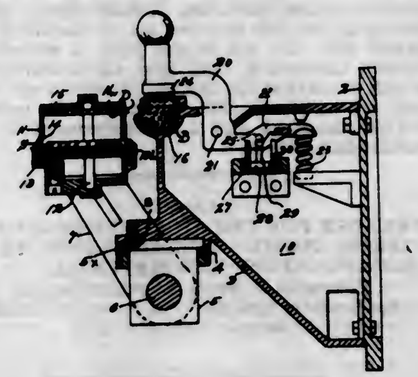
2,594,684
WRENCH WITH RESILIENT JAW FACES
Ben M. Rothe, San Antonio, Tex.
Application September 13, 1950, Serial No. 184,649
2 Claims. (Cl. 81—186)

1. For use as a component part of a wrench, a new article of manufacture comprising a shank having rack means and an adjusting nut therefor, said shank being provided at one end with an axial socket and said socket being internally screw threaded, an L-shaped adapter having one arm provided with a screw threaded portion screwed into said socket, and a rubber jacket conforming in shape to and completely



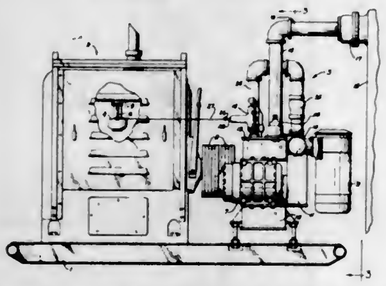
enclosing said adapter, said jacket including a flat surfaced portion constituting a cushioned jaw face.

2,594,685
GOLF BALL MARKING MACHINE
Eugene J. Russell, Yorba Linda, and Arthur E. Wilde, Long Beach, Calif.
Application November 10, 1947, Serial No. 784,948
2 Claims. (Cl. 101—4)



1. A ball marking machine having, in combination, a frame having a rigidly fixed ball support including an upwardly facing socket for nesting an applied ball in stable position, a ball clamping means including a lever having a horizontal axis on said frame and being radial from one side of the socket and having a downwardly facing cap movable by said lever toward and from the socket, a spring on the frame constantly urging the cap toward the socket to grip an applied ball, the lever being manually operative to move the cap away from the socket for insertion of a ball, a marking die member, and a carrier, on which the die member is mounted, pivoted on the frame for both a horizontal sweep around the socket and for vertical swing toward or from the socket whereby to press a die character against a contiguous surface of the clamped ball.

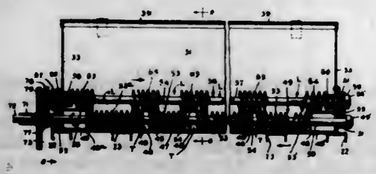
2,594,686
SUPERCHARGER FOR INTERNAL-COMBUSTION ENGINES
John Harlow Sammons, Wichita Falls, Tex.
Application November 21, 1947, Serial No. 787,312
8 Claims. (Cl. 60—97)



4. In a supercharger for internal-combustion engines, the combination with a plurality of internal combustion engines, each of which engines includes a fuel supply system having an air intake, a plurality of blowers, means for driving said blowers independently of said engines, means for directing air under pressure from said blowers to said air intake of each of said internal-combustion engines, and means responsive to the pressure generated by said blower for automatically controlling the speed of said blower driving means so as to maintain a uniform pressure in said air intake of each of said internal-combustion engines.

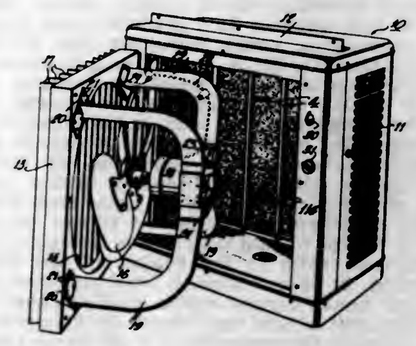
7. In a supercharger for internal combustion engines, the combination with an internal combustion engine including a fuel supply system having an air intake pipe, an air manifold connected with the air intake pipe, a plurality of blowers connected with said air manifold and jointly supplying air thereto, a second air manifold, air supply means connected with said second air manifold, and a conduit connecting said manifolds together.

2,594,687
SPREADER FOR CHEMICAL FERTILIZER MATERIAL HAVING SPIRAL ELEMENTS FOR MANIPULATING THE MATERIAL
Thurman T. Scott, Thomasville, Ga.
Application April 26, 1948, Serial No. 23,361
3 Claims. (Cl. 222—238)



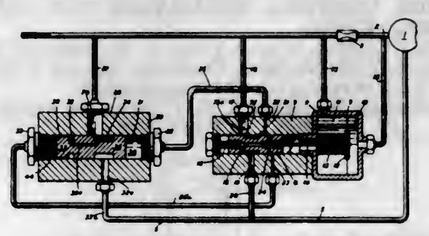
1. A traversing spreader for chemical fertilizer or the like, comprising a hopper to be moved over the ground, said hopper including ends and a transversely curved bottom, said bottom being provided with end discharge openings, which are spaced inwardly and horizontally from such ends, said bottom being provided with intermediate discharge openings which are spaced horizontally from each other and from the end openings, bearings mounted upon the ends of the hopper and spaced horizontally from the end discharge openings, a substantially horizontal shaft extending through the hopper and having its ends held within the bearings, end spiral vane sections mounted upon the shaft and having their outer ends terminating substantially at the inner sides of the end discharge openings which are remote from the bearings, said end spiral vane sections being oppositely pitched to feed the material outwardly, intermediate spiral vane sections mounted upon the shaft and horizontally spaced from each other, one intermediate spiral vane section being spaced from the next end spiral vane section, the spacing of the spiral vane sections providing gaps, said gaps being in substantial alignment with the intermediate discharge openings, the intermediate spiral vane sections having their discharge ends terminating substantially at the adjacent sides of the intermediate discharge openings, imperforate end shields extending from the ends of the hopper and arranged above the shaft and extending inwardly beyond the end discharge openings, the end shields being transversely curved and forming with the transversely curved bottom of the hopper cylindrical tubes, the outer ends of the end spiral vane sections extending into the ends of the tubes and substantially contacting therewith, intermediate imperforate shields arranged within the hopper and spaced horizontally from the end shields and from each other and disposed over the gaps, the intermediate shields being transversely curved and forming with the transversely curved bottom of the hopper intermediate cylindrical tubes, the ends of the intermediate spiral vane sections and of one end spiral vane section extending into the intermediate tubes and substantially contacting therewith, and means to rotate the shaft.

2,594,688
HINGED DOOR AND MOTOR SUPPORT FOR WINDOW COOLERS
Eli Shapiro, Dallas, Tex., assignor to Dearborn Stove Company, Dallas, Tex.
Application February 17, 1950, Serial No. 144,802
1 Claim. (Cl. 183—37)



In a window cooler cabinet, the combination comprising louvered ends and rear walls, a top and bottom defining said cabinet, a group of filter mats in said cabinet, a louvered door hinged along one vertical edge to cover the front of said cabinet, a fan motor and fan for influencing air through said cabinet for discharge into a room, means supporting said motor and fan comprising a group of four metal straps, each having a curved end portion outwardly divergent from its midsection, the curved portions of the straps of said group being joined one to another in flush parallelism to define reinforced legs and a substantially square frame spaced inwardly of said door for supporting said motor, one of legs being affixed to the inner face of said door at each corner thereof, a plate affixed to the midsection of each side of said frame having a perforated ear formed thereon, means for securing said fan motor to said ears, a rubber grommet interposed between said motor and said ears and means for holding said door in closed position.

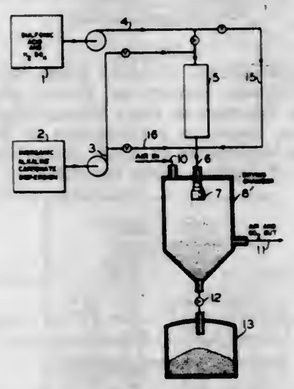
2,594,689
FLUID OPERATED SPEED GOVERNOR
Joseph Goulding Sharp, Chilwell, near Beeston, and Robert Edward Ingham, Brandsby, England, assignors to Power Jets (Research and Development) Limited, London, England, a British company
Application December 30, 1946, Serial No. 719,268
In Great Britain January 7, 1946
6 Claims. (Cl. 158—36)



1. In a fluid operated governor for a variable speed engine comprising a source of fluid and a pump connected to said source and to a fluid delivery line having a restricted orifice, the provision of at least two fluid pressure sensitive valves each having spill means affording permanently open connection to said fluid delivery line downstream of said orifice and said source, one of said valves, the pilot valve, comprising an element connected directly across the orifice whereby one side of said element is freely open to the pressure existing immediately upstream of said orifice while the opposite side of said element is freely open to the pressure existing immediately downstream of said orifice, and the other valve, the compensating valve, is hydraulically connected to and is thereby operated by the pilot valve.

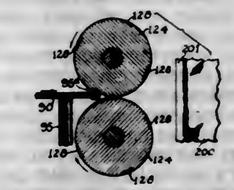
2,594,690
CONTINUOUS PROCESS FOR NEUTRALIZING AND SPRAY DRYING AN ORGANIC SULFONIC ACID
William H. Shiffler, San Francisco, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application April 30, 1948, Serial No. 24,225
9 Claims. (Cl. 252—161)

1. A continuous process for producing salts of a surface-active alkyl aryl sulfonic acid, which comprises neutralizing a liquid feed stream containing an alkyl aryl sulfonic acid in a mixture with sulfuric acid, by mixing said feed stream with a stream of an aqueous dispersion of an inorganic alkaline carbonate in a confined space, while retaining carbon dioxide gas produced by said neutralization in said confined space to form a polyphase mixture of said carbon dioxide gas and an aqueous liquid which contains the salt of said alkyl aryl sulfonic acid and the sulfate resulting from neutralization with said alkaline carbonate; atomizing said polyphase mixture by means of the autogenous pressure of carbon dioxide gas contained therein into a stream of hot air to release carbon dioxide gas therefrom; drying the atomized particles by maintaining them



dispersed in said stream of hot air; and recovering discrete, solid, dried particles of said salt of alkyl aryl sulfonic acid and of said sulfate from said air dispersion.

2,594,691
MANUFACTURE OF SLIDE FASTENERS
Henry A. Simpson, Philadelphia, Pa., assignor to The North & Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut
Application July 1, 1946, Serial No. 680,684
13 Claims. (Cl. 29—148)



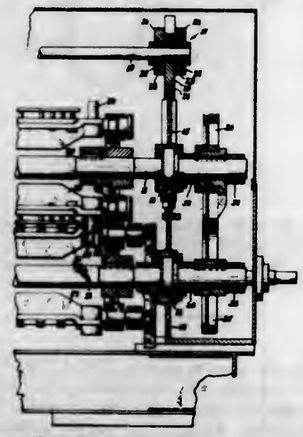
1. In a method of forming slide fastener scoops from individual blanks of plan cross-sectional shape approximating that of said scoops, separately enveloping and rolling said blanks progressively from end to end for completely coining their outer surfaces.

8. In slide fastener scoop forming means, a pair of synchronously driven rotary die members rotating in similar paths about spaced parallel axes and having complementary scoop forming coining die cavities moving into and out of substantial contact, and means for supplying individual scoop-forming blanks to said complementary scoop-forming die cavities for roll coining thereby to form said scoops.

12. A method of making a slide fastener stringer comprising a flexible tape with a row of scoops clamped thereon, each of said scoops having a jaw portion at one end and an interlocking head portion at the other end, said method comprising subjecting to rolling contact with complementary die-forming surfaces travelling synchronously in opposite directions in substantially engaging arcuate paths, a preformed blank of substantially Y-shaped section and of volume approximating that of a spread-jawed scoop to form said scoop while concurrently imparting thereto sufficient momentum for moving said

formed scoop toward and into engagement with a tape, clinching the jaw portion of the formed scoop against said tape to attach said scoop to said tape, and moving said tape a desired distance after attachment of each scoop thereto.

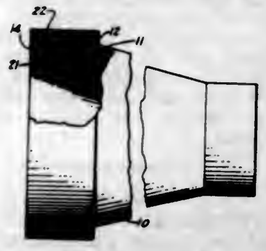
2,594,692
SYNCHRONIZING MEANS FOR ROTORS
Edward Skillman, Enterprise, Kans., assignor to The J. B. Ehrsam & Sons Manufacturing Co., Enterprise, Kans., a corporation of Kansas
Application September 29, 1951, Serial No. 248,993
7 Claims. (Cl. 74—397)



1. In a mechanism providing a pair of rotors mounted in bearing means for rotation about spaced parallel axes, one of said bearing means being shiftable relative to the other of said bearing means to move one of said rotors toward and away from the other of said rotors, and each of said rotors having a gear fixed thereto for interengagement to establish a driving connection between said rotors when said rotors are in their nearest relative positions, means for maintaining the driving connection between said rotors when said rotor gears are moved out of interengagement comprising an axle, an idler gear on said axle, a link oscillable about the axis of said other rotor and connected to said axle to hold said idler enmeshed with the rotor gear rotatable with said other rotor, a second axle, a second idler gear on said second axle, a frame maintaining said second axle at a fixed distance from said first axle with said idler gears in mesh with each other, a second link oscillable at one end thereof about the axis of said one rotor and connected to said second axle at a point spaced inwardly from either end of said second link to hold said second idler enmeshed with the rotor gear rotatable with said one rotor, and guide means for guiding the other end of said second link along a rectilinear path toward and away from a plane including said rotor axes during relative movement of the said bearing means.

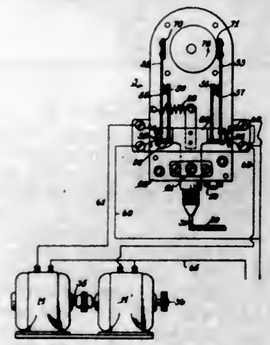
2,594,693
HOLLOW CIRCULAR ARTICLE AND METHOD OF MAKING SAME
Frederick H. Smith, Wyncote, Pa., assignor to The Sharples Corporation, a corporation of Delaware
Application December 7, 1948, Serial No. 63,882
18 Claims. (Cl. 57—76)

1. A centrifugal bowl comprising alternate superimposed layers of taut unwoven glass yarn helically wound in the peripheral direction and substantially straight glass yarn lying in the



axial direction, said yarn being impregnated with a thermosetting resin binder in the infusible, insoluble stage.

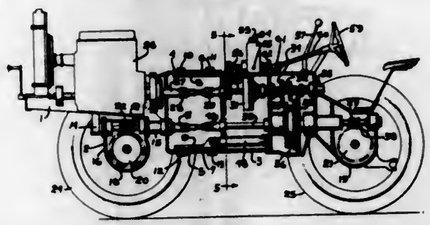
2,594,694
INTERMITTENT AND PROPORTIONATE PATTERN CONTROL MECHANISM FOR MACHINE TOOLS
Edwin R. Smith, Seneca Falls, N. Y., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts
Application December 8, 1948, Serial No. 64,093
2 Claims. (Cl. 318—162)



1. In a machine, a pair of opposed torque motors alternately operative to produce opposite results in said machine, a pattern, and control connections between said pattern and said motors which include operating circuits through which said motors are rendered selectively effective to produce one or the other of said results, and said control connections including a continuously-rotated cam, a pair of normally-closed contacts in the operating circuit of each motor, means controlled by said pattern to move a selected pair of closed contacts into the path of said cam on indication by said pattern, and devices to effect relative movement between said pattern and said controlled means, and one of said contacts being displaced to open the circuit of the associated motor when said contact is positioned in the path of said cam and is engaged thereby.

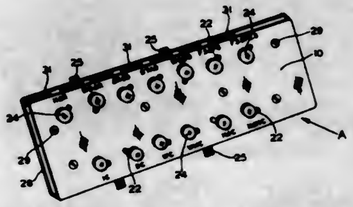
2,594,695
HINGED SECTION POWER STEERED VEHICLE
Norman C. Storey, Miami, Fla.
Application December 1, 1947, Serial No. 789,118
7 Claims. (Cl. 180—79.2)

7. In combination, a hinged coupling connecting two sections of an articulate vehicle chassis in which the two said sections are held in the proper relation to each other by interexchanging teeth, a linkage pivoted to said sections to permit swinging movement with relation to each other, and steering means operatively connecting the linkage and one of said sections, said steering means including an element mounted on said last mentioned section and movable with respect to said last mentioned section, and means connecting said movable element to said linkage at a



region of the latter eccentric with respect to the pivoting axis connecting the linkage with said last mentioned section on which the element is movably mounted so that movement of said element relative to said last mentioned section will effect relative pivotal movement of the linkage and said last mentioned section, and power means carried by said last mentioned section for moving said movable element.

2,594,696
DEVICE FOR EVALUATING HORSES
Arthur E. Strudwick, Long Lake, Minn., assignor, by direct and mesne assignments, to Selector, Inc., Minneapolis, Minn.
Application June 26, 1950, Serial No. 170,316
4 Claims. (Cl. 116—134)



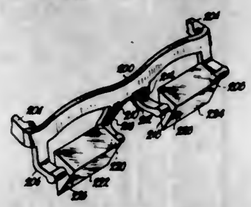
1. In a register, a base plate, a series of substantially V-shaped recesses formed in said base plate obliquely to the longitudinal axis thereof, a series of spring arms operable in said recesses, said spring arms having semi-circular ends, semi-circular shoulders formed in said recesses against which said semi-circular ends of said spring said arms pivot, means for moving the free ends of said arms into and partially out of said recesses, and a back plate secured to said base plate to cover and maintain said arms in said recesses.

2,594,697
PISTON PACKING RING ASSEMBLY
Willard L. Tatham, Decatur, Ill.
Application June 16, 1948, Serial No. 33,392
13 Claims. (Cl. 309—44)

5. A piston ring assembly comprising a plurality of overlapping circumferentially arranged segments having uninterrupted side walls mountable for radial movement in piston recesses and matching recesses in their inner contact faces, a spring having spaced ends mounted in the recesses of said segments and extending throughout the circumference of the assembly, and a clip engaging the spaced ends of said spring to limit outward spring expansion.

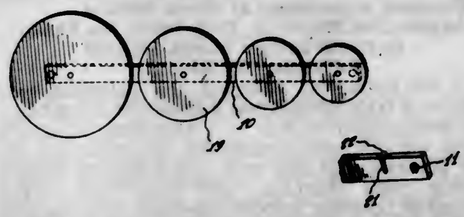


2,594,698
NOVELTY DEVICE IN NATURE OF VIEWING MEANS
Emory M. Thomas, Independence, Mo.
Application September 6, 1949, Serial No. 114,192
1 Claim. (Cl. 88—1)



A viewing device in the nature of spectacles comprising a frame having a bridge adapted to be supported by the nose of a wearer; a pair of solid, transparent, elongated prismatic lenses each lens being triangular in cross-section presenting three plane faces and three elongated straight edges; a pair of spaced L-shaped brackets for each lens respectively and on each side respectively of said bridge, each bracket having a leg depending from the frame and a second leg extending outwardly from the lowermost end of the depending leg; means for each lens respectively for pivotally mounting the same to the corresponding second legs for rotative movement on the longitudinal axes of the lenses, the axes of rotation of the lenses being aligned; and a pair of side pieces on the frame extending laterally therefrom oppositely from the said second legs of the brackets for passing over the ears of said wearer.

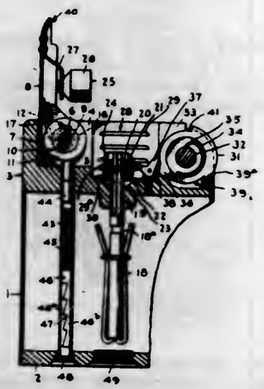
2,594,699
RACK FOR PLASTIC DISH COVERS
Ruth E. Thompson, Morristown, N. J.
Application December 31, 1948, Serial No. 68,563
1 Claim. (Cl. 211—87)



A dish cover rack comprising a supporting bar adapted to be connected to a wall surface, supporting pins extending from the bar, and dish cover receiving members journalled on said pins,

the outer ends of said members defining a geometric figure complementary to the inner face of the dish covers, and said members extending laterally from the pin to receive the flange of the dish cover, and said supporting bar having vertically extending slots for removably receiving said pins, said pins respectively having enlargements for preventing the axial withdrawal of the pins through the slot.

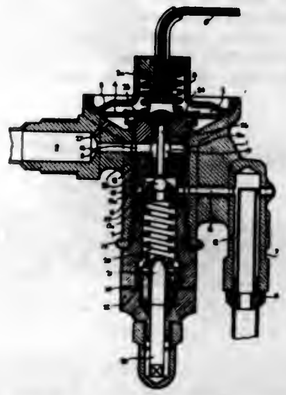
2,594,700
CIGAR AND CIGARETTE LIGHTER
Frans B. Wendel, Nokomis, Fla.
Application October 7, 1948, Serial No. 53,215
7 Claims. (Cl. 67—7.1)



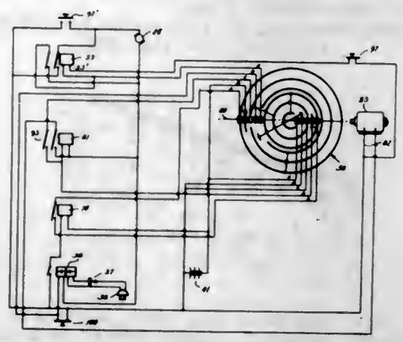
2. In combination with a lighter including a body for containing a supply of fuel, a wick tube projecting from said body, a wick in said tube having an end extending beyond said tube, and means for igniting the fuel fed by the wick, of means for regulating the size of the flame produced, said means comprising a tubular member slidably mounted on said wick tube adapted to extend beyond said tube to a position around said wick end to vary the amount of said wick being exposed to the flame, a circumferential flange extending from the body of said slidable member, a spring engaging the flange to elevate said slidable member to said position, a lever engaging said flange, and cam means to operate said lever for lowering the slidable member to different positions against the tension of said spring.

2,594,701
EXPANSION VALVE FOR USE IN REFRIGERATING AND LIKE APPARATUS
Louis Joel Wolf, Westminster, England, assignor to Refrigerator Components Limited, London, England, a company of Great Britain
Application March 21, 1949, Serial No. 82,566
In Great Britain March 10, 1948
6 Claims. (Cl. 62—127)

1. An automatic valve of the balanced type having a body comprising a diaphragm chamber, an open-ended socket part extending coaxially from the diaphragm chamber and communicating therewith at one end, a diaphragm located within said chamber, and inlet and outlet branches opening through the body into the said socket part, a detachable valve unit comprising a plug part adapted to be removably inserted in a fluid-tight manner into the socket part of the body through the open end thereof remote from the diaphragm chamber, an anvil formation on the inner end of the plug part to limit the deflection of the diaphragm in the valve opening direction, and a valve assembly wholly accommodated in the said plug part and having a valve operating member projecting through the anvil for engagement with the diaphragm.

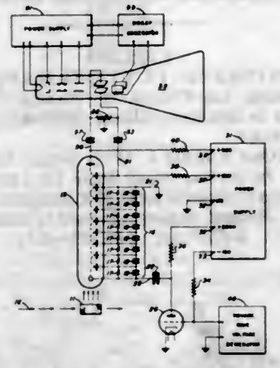


2,594,702
RETRIEVABLE MARINE MARKER
Stanley W. Woodard, Houston, Tex., assignor to Dale Service Corp., Houston, Tex., a corporation of California
Application August 30, 1948, Serial No. 46,807
1 Claim. (Cl. 177—385)



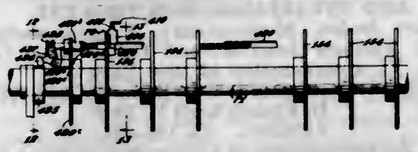
A self-contained submersible marine marker comprising a housing, a float detachably connected with the housing, a cable connected to said housing and to the float, a float latching means to hold said float releasably to the housing, motor driven means in said housing to produce a succession of sound signals arranged in a pattern to identify the marker, a geophone in said housing responsive to a short seismic impulse received by the housing, means operated by the geophone upon responding for closing a circuit to the motor of the motor driven means, switch means operated by the motor for maintaining it in operation for a predetermined time independent of the geophone circuit closing means, electromechanical means for releasing said latch means, other switch means operated by the motor during its maintained operation for preparing a circuit to the releasing means and means whereby said geophone when operated by a seismic impulse during the maintaining period completes said releasing means circuit.

2,594,703
PHOTOMULTIPLIER TUBE CIRCUIT
Louis F. Wouters, Oakland, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application April 17, 1951, Serial No. 221,396
4 Claims. (Cl. 250—207)



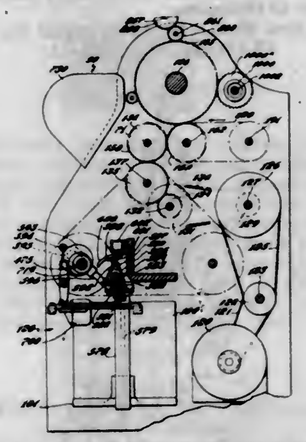
1. In a photomultiplier tube circuit, the combination comprising a source of light, a photomultiplier tube having an anode, a plurality of dynodes, and a cathode with substantially low values of operating voltages, said tube being disposed adjacent said source to receive light therefrom, a voltage divider having a plurality of equally spaced taps connected between the penultimate dynode and said cathode with the taps respectively connected to the dynodes, said penultimate dynode being connected to ground, said cathode being connected to a storage capacitor, power supply means having a grounded terminal, a positive terminal connected to said capacitor for charging the capacitor to a high value of voltage, and terminals connected to said anode and penultimate electrode for impressing suitable biasing voltages, and means connected to the power supply side of said capacitor for intermittently grounding said capacitor to apply high potentials to said dynodes with respect to said substantially low values of operating voltages.

2,594,704
CONVEYER MECHANISM FOR PRINTING PRESSES
Roy F. Aberle, Portland, Maine, assignor to Southworth Machine Company, Portland, Maine, a corporation of Maine
Original application September 20, 1946, Serial No. 698,252, now Patent No. 2,542,073, dated February 20, 1951. Divided and this application April 9, 1948, Serial No. 20,081. In Canada September 18, 1947
5 Claims. (Cl. 271—82)



1. Sheet conveyor mechanism comprising a gripper element for receiving and gripping the leading edge of a sheet delivered thereto at a predetermined place, a support on which said gripper is mounted for movement so as to present said gripper element to said place of sheet delivery, and means for effecting movement of the support, said gripper element including a pair of sheet gripping jaws, one of said jaws being fixed on the support in a position to have surface contact with the leading edge of the advancing sheet at one side at said predetermined place, the other of said jaws being mounted on the support for movement in two directions relative to the fixed jaw for movement into engagement with the other side of the leading edge of the sheet, means for effecting angular movement of the movable jaw into registration with the fixed jaw and concomitantly perpendicular movement toward the sheet engaging face of the fixed jaw, said means including a shaft fast to the movable jaw, said shaft having threaded engagement with the support for axial movement parallel to a perpendicular to the face of the fixed jaw, and rotational movement about its axis, a gear fixed to said shaft, a rack on the support in mesh with said gear, said rack being movable thereon in directions to rotate the shaft and hence to move the movable jaw to and from the fixed jaw, spring means normally holding the rack at that extremity of its movement wherein the jaws are engaged, and cam operated means for effecting movement of the rack in a direction to disengage said jaws, said cam operated means being operable to separate the jaws prior to their movement into said predetermined sheet receiving position.

2,594,705
CONTROL FOR STACK SUPPLY AND STACK DELIVERY FOR PRINTING PRESSES
Roy F. Aberle, Portland, Maine, assignor to Southworth Machine Company, Portland, Maine, a corporation of Maine
Original application September 20, 1946, Serial No. 698,252, now Patent No. 2,542,073, dated February 20, 1951. Divided and this application April 9, 1948, Serial No. 20,083. In Canada September 18, 1947
4 Claims. (Cl. 271—3)



1. In a sheet-fed printing press, relatively movable main and offset cylinders, means for holding the cylinders engaged under pressure while a sheet is present therebetween, said means being responsive to the absence of a sheet to separate the cylinders, stack supports for supplying sheets to said cylinders and for receiving printed sheets discharged therefrom, said stack supports being vertically movable, means operable to effect raising the supply stack support and lowering the delivery stack support, a stack feeler normally rendering the means for raising the supply stack

support ineffective, said feeler being operable by removal of sheets from the top of the stack to render the stack elevating means effective to raise the stack support, means rendering the means for lowering the delivery stack support ineffective while said supply stack support is at rest, an electric circuit including a switch and solenoid, the switch being located in a position to be closed by response of the stack feeler to initiate elevation of the supply stack support to energize the circuit, said solenoid being located in a position to render the lowering means for the discharge stack support effective, and a second switch in the circuit connected to the means for holding the cylinders engaged and operable by separation of the cylinders to open the circuit and hence to render the stack lowering mechanism ineffective without interfering with continued operation of the supply stack support elevating means.

2,594,706

ISOMERIZATION OF UNSATURATED HYDROCARBONS

Morag Lauchlan Allan, Norton-on-Tees, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application May 12, 1950, Serial No. 161,720. In Great Britain May 30, 1949
5 Claims. (Cl. 260—678)

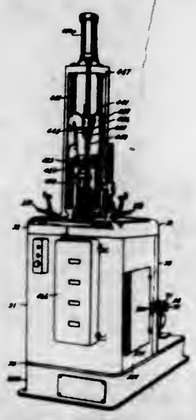
1. A process for the isomerization af allene to methyl-acetylene wherein said hydrocarbon is brought into contact in the vapor phase at a temperature of 240–300° C. with a catalytic substance comprising alumina treated prior to use with a fluorinating agent selected from the group consisting of silicon tetrafluoride and fluorine.

2,594,707

STATOR WINDING MACHINE

Ernest C. Allen, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 19, 1948, Serial No. 15,835
10 Claims. (Cl. 242—1)



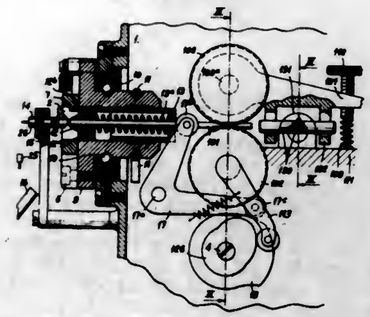
1. A stator winding machine comprising a fixed stator core holder, fixed wire anchors, an axially movable and rotatable shuttle having passages through which wires are threaded and secured to the anchors, shuttle reciprocating means which axially moves the shuttle through the stator core, means for rotating the shuttle while outside of the core in order to form the end loops of the coils wound on the core, means determining the angle of rotation and including a cam follower operatively connected with the shuttle and a series of cams which are moved in sequence into position to receive the cam follower, winding turn counting means, and means under control by said turn counting means for positioning the cams in succession to the cam follower.

2,594,708

AUTOMATIC CUTTING MACHINE

Oscar Amiet, La Chaux de Fonds, Switzerland, assignor to Mistress Albert Murback, Colombier, Switzerland

Application August 1, 1947, Serial No. 765,581
In Switzerland June 14, 1946
Section 1, Public Law 690, August 8, 1946
Patent expires June 14, 1966
4 Claims. (Cl. 29—63)



4. A mechanical movement for driving the feeding wheels of an automatic cutting machine comprising, in combination, two shafts each adapted to carry one of said feeding wheels, two adhesion wheels arranged in contact with one another each secured on one of said shafts, a lever in which is journalled one of said shafts, a universal joint for fixing said lever, an adjusting screw for balancing the pressure on the feeding wheels and on the adhesion wheels, a swinging feeding lever, a friction clutch through which said lever is adapted to be operatively connected to at least one of the feeding wheels, a first cam operating said lever, a friction blocking device for the wheel actuated by said lever, a second cam operating said blocking device, whereby the wheel is driven by the swinging lever during its forward movement and is blocked during the return movement of said lever.

2,594,709

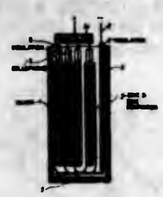
SILVER AND ZINC ACCUMULATOR WITH INSOLUBLE NEGATIVE ELECTRODE AND INVARIABLE ELECTROLYTE

Henri André, Montmorency, France, assignor to Yardney International Corp., New York, N. Y., a corporation of New York

Application April 1, 1947, Serial No. 738,702
In France April 11, 1946
5 Claims. (Cl. 136—30)

1. An electric storage battery comprising a container, an alkaline electrolyte in said container, said electrolyte being substantially saturated with zinc, a negative electrode in said electrolyte containing zinc, a positive electrode in said electrolyte containing a metal more electropositive than zinc, an electrolyte-permeable separator of regenerated cellulose between said electrodes,

and means including said container maintaining said separator under compression, thereby regu-



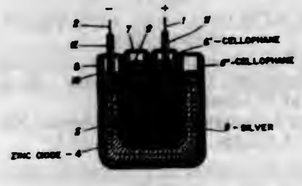
lating the size of the pores thereof and enabling repeated recharging of the battery.

2,594,710

ZINC-SILVER ACCUMULATOR

Henri G. André, Montmorency, France, assignor to Yardney International Corp., New York, N. Y., a corporation of New York

Application December 20, 1948, Serial No. 66,291
In France July 28, 1948
7 Claims. (Cl. 136—6)



1. In an electrochemical generator of energy, in combination, a positive electrode and a negative electrode, at least one of said electrodes comprising an electrochemically active material and an electrolyte-permeable insulating envelope enclosing said material, said envelope being folded substantially in the form of a U with upstanding arms, the other of said electrodes being enfolded by the arms of the U.

2,594,711

ZINC-SILVER ACCUMULATOR

Henri G. André, Montmorency, France, assignor to Yardney International Corp., New York, N. Y., a corporation of New York

Application December 20, 1948, Serial No. 66,292
In France July 28, 1948
8 Claims. (Cl. 136—6)



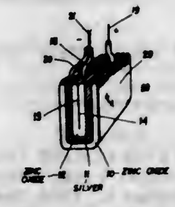
1. In an electrochemical generator of energy, in combination, a positive electrode and a negative electrode, one of said electrodes comprising an electrochemically active material and an electrolyte-permeable insulating envelope enclosing said material, said envelope being folded substantially in the form of a U with upwardly extending arms, the other of said electrodes being in contact with the outer surface of said envelope and comprising a metal sheet having portions respectively embracing the arms of the U.

2,594,712

SILVER AND ZINC ACCUMULATOR HAVING AN INSOLUBLE NEGATIVE ELECTRODE

Henri G. André, Montmorency, France, assignor to Yardney International Corp., New York, N. Y., a corporation of New York

Application June 11, 1949, Serial No. 98,433
In France February 22, 1949
9 Claims. (Cl. 136—6)



1. In an electrochemical generator of energy, in combination, a first electrode of one polarity, and a second and a third electrode of opposite polarity, said first and second electrodes each comprising an electrochemically active material and an electrolyte-permeable insulating envelope enclosing said material, said envelope being folded substantially in the form of a U with upstanding arms, the arms of the U of said second electrode enfolding said first electrode, the arms of the U of said first electrode enfolding said third electrode.

2,594,713

ELECTRIC ACCUMULATOR

Henri Georges André, Montmorency, France, assignor to Yardney International Corp., New York, N. Y., a corporation of New York

Application November 27, 1950, Serial No. 197,730
In France November 29, 1949
3 Claims. (Cl. 136—6)



1. An electric accumulator, which comprises at least one positive electrode containing silver, at least one negative electrode containing zinc juxtaposed with said positive electrode, a semi-permeable material between said electrodes, an alkaline electrolyte impregnating said electrodes and said material and exerting a swelling influence on said material, the swelling of said material applying the same against said electrodes under a pressure at least 15 kg./sq. dm.

2,594,714

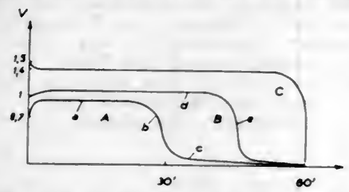
METHOD OF FORMING ELECTRIC ACCUMULATORS

Henri Georges André, Montmorency, France, assignor to Yardney International Corp., New York, N. Y., a corporation of New York

Application December 4, 1950, Serial No. 198,945
In France December 6, 1949
3 Claims. (Cl. 136—34)

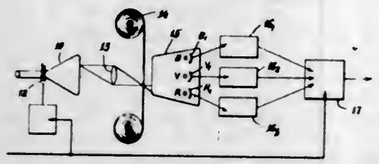
1. A method of so forming a battery having a negative zinc electrode and a positive electrode as to promote the conversion of the zinc of said negative electrode into its hydroxide, comprising an initial discharging step during which an oxide in said positive electrode is at least partly re-

duced and a current is generated, said current being maintained at a rate sufficient to complete



the discharge of said battery within not more than one hour.

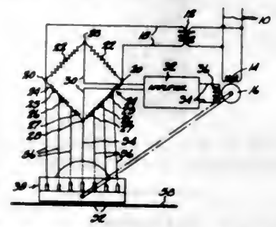
2,594,715
APPARATUS FOR COLOR TELEVISION
Yves Angel, Paris, France
Application December 15, 1948, Serial No. 65,417
In France December 27, 1947
5 Claims. (Cl. 178—5.2)



1. In a system for color television, a transmitter comprising optical means for obtaining a rectangular undistorted image of a given aspect ratio of the object to be televised, further optical means for deriving from said rectangular images three monochromatic rectangular images each of which is of one different primary color, optical means for anamorphosing each of said three monochromatic images so as to alter their individual aspect ratio by reducing the ratio of the length of their longer side to that of their shorter side, means for projecting all three said anamorphosed images side by side onto a photoelectrically sensitive surface in such an arrangement that said three anamorphosed images are juxtaposed along one of their sides parallel to the direction of their shorter side prior to their anamorphosing, means for scanning said surface at a given line frequency in a direction substantially perpendicular to the direction of the juxtaposed sides of said juxtaposed, anamorphosed and projected images and in such a manner that each line successively scans each one of said projected images, means for converting luminosity variations encountered in scanning said projected images into electric signals, and means for transmitting said electric signals into a communication channel.

2,594,716
ELECTRONIC PROGRAM CONTROLLER
George B. Bailey, Long Beach, Ind., assignor to The Hays Corporation, Michigan City, Ind., a corporation of Indiana
Application May 22, 1948, Serial No. 28,662
16 Claims. (Cl. 318—31)

1. A program controller comprising a movable chart having a linear conductive program-defining part, a shiftable sensing member having a plurality of contactors engaging said chart and uniformly transversely spaced apart a distance less than the width of said conductive part, a reversible electric motor for shifting said sensing member and the parts to be controlled according to said program, and means controlled by the position of said sensing member relative to the conductive part of said chart for controlling said motor, said means including a normally balanced Wheatstone bridge having two legs each containing a plurality of similar electric resistances, said



contactors being connected to said legs between said resistances and an intermediate contactor being connected to the junction between said legs whereby resistances between adjacent contactors engaging the conductive part of said charts are shunted.

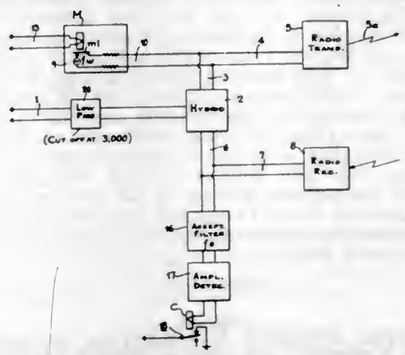
2,594,717
GLASS RUN CHANNEL FOR VEHICLE WINDOWS
David C. Bailey, Amesbury, Mass., assignor to The Bailey Company, Inc., Amesbury, Mass., a corporation of Massachusetts
Application February 28, 1948, Serial No. 11,901
1 Claim. (Cl. 296—44.5)



In a glass run channel having a sheet metal core channel and having fabric sheet material adhered to the surfaces of the core channel in completely enclosing relation thereto, partially impregnated cushioning strips secured to said fabric sheet material within the channel, one said strip extending along one side wall of the channel, and another extending along the opposite side wall of the channel, and a third extending along the bottom wall of the channel, each said cushioning strip being formed of felt, and each having a substance impregnating the felt adjacent the fabric sheet to which the strips are secured and confined to that one third of the total thickness of the strip which is next adjacent to said fabric sheet, said substance rendering the impregnated portions of the strips substantially impervious to moisture and the major thickness of the strips being free of the said substance for resilient cushioning coaction with a window glass.

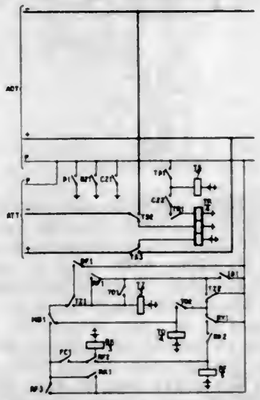
2,594,718
SUPERVISORY SIGNALING CIRCUITS FOR CARRIER WAVE COMMUNICATION SYSTEMS AND THE LIKE
Everhard H. B. Bartelink, Bronxville, and Edward Daskam, Jr., Franklin Square, N. Y., assignors, by mesne assignments, to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 16, 1949, Serial No. 116,191
10 Claims. (Cl. 179—84)

5. In a carrier current signaling system; a carrier current transmitter and a carrier current receiver, hybrid coupled to a metallic circuit; a low pass filter interposed in said metallic circuit adapted to transmit frequencies within a preselected range; a signal generator having a frequency above said range, and means including a relay for connecting said generator to the input of said carrier transmitter; a tuned circuit connected to the output of said carrier receiver, said



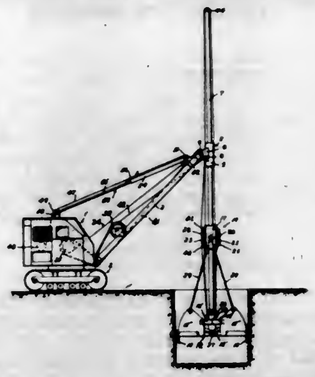
circuit being tuned to a frequency above said range, said tuned circuit being responsive to only a signal received by said receiving circuit which is of a different frequency from that of said signal generator; and a signal translating device connected to the output of said tuned circuit.

2,594,719
VOICE-FREQUENCY TELEPHONE SIGNALING SYSTEM
Charles Edmund Beale, Liverpool, England, assignor to Automatic Electric Laboratories Inc., Chicago, Ill., a corporation of Delaware
Application April 25, 1946, Serial No. 664,765
In Great Britain May 19, 1945
6 Claims. (Cl. 179—27)



1. In a telephone system employing mixed systems of voice frequency and direct current impulsing for controlling the selective setting of automatic switches, an incoming relay set arranged to be normally insensitive to voice frequency impulsing, an outgoing relay set including an impulse regenerator for storing and converting incoming direct current impulses to corresponding voice frequency impulses, a trunk line interconnecting said incoming and outgoing relay sets, means in said outgoing relay set operated in response to said regenerators initial storing operation for causing a conditioning signal to be sent forward, means in said incoming relay set operated in response to said conditioning signal for causing said incoming relay set to become sensitive to voice frequency impulses, means in said outgoing relay set operated in response to the termination of voice frequency impulsing by said regenerator for sending forward another conditioning signal, and means in said incoming relay set operated in response to the receipt of said other conditioning signal for rendering said incoming relay set insensitive to further voice frequency impulsing.

2,594,720
PIER HOLE EXCAVATOR
August H. Beck, Jr., San Antonio, Tex.
Application November 4, 1949, Serial No. 125,497
11 Claims. (Cl. 214—115)



1. A pier hole excavator including a boom, a dipper stick guide pivotally mounted at the free end of the boom, a dipper stick slidably mounted in the guide, a bracket at the lower end of the dipper stick, a bucket having its sections pivotally supported by the bracket, a bucket arm guide slidably mounted on the dipper stick and including diametrically opposed supporting pins and diametrically opposed pulleys, the latter being located at right angles to the pins, a pair of arms mounted on each pin and connected at their opposite ends to the respective sections of the bucket, a first cable guided over the boom to and through the bracket, over one of the pulleys on the bucket arm guide, over the second pulley on the bucket arm guide, and terminally secured to the bracket, and a second cable connected to the boom and leading to the lower end of the dipper stick for supporting the bucket sections.

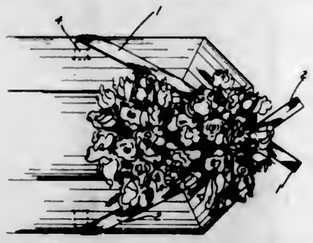
2,594,721
APPLICATOR FOR DYE AND THE LIKE
Fredrick E. Beebe, Willoughby, Ohio
Application April 9, 1949, Serial No. 86,921
4 Claims. (Cl. 132—13)



1. A comb for the purpose described comprising a unitary comb body provided with a series of spaced teeth extending from one side thereof, said body and teeth lying generally in the same plane, said body having a passageway extending longitudinally through the central portion thereof, said passageway being of substantially uniform section throughout its length, said passageway being generally of key-hole form in section

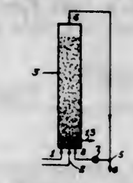
and having a generally cylindrical portion communicating with a trough portion, said trough portion passing through the bases of the comb teeth and communicating directly with said teeth, and a wick lying in both portions of said passageway, said wick having a sheet of wicking folded in U-form about a strip of stiff reinforcement, said trough portion being of a width to snugly receive said wick and said cylindrical portion being wider than said trough portion to receive said wick plus an inserting instrument.

2,594,722
CASKET FLORAL RACK
William T. Bell, Jefferson County, Ala.
Application November 15, 1945, Serial No. 628,881
1 Claim. (Cl. 248—27.8)



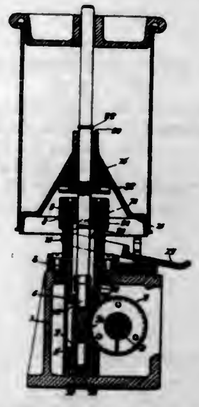
In a floral display supporting bracket of the character described for use in combination with a burial casket comprising; two pieces of thin stiff metal of equal length and width, a bolt inserted through said pieces at a point a comparatively short distance from one end of each piece, said pieces being held movably together scissors-fashion by said bolt, the other end of each piece being bent and defining a curved portion directed toward each other in a straight line when said pieces are positioned scissors fashion with the angles formed by the pieces adjacent the bolt joint being approximately 90 degrees; the longer portions of the pieces between the bolt and the bent ends being slightly curved; the other end portions adjacent the bolt being straight.

2,594,723
PROCESS FOR PRODUCING GRANULAR CLUSTERS OF CRYSTALLINE MATTER
Raoul P. J. Berteaux, Uccle-Brussels, Belgium, assignor to Solvay & Cie, Brussels, Belgium, a company of Belgium
Application July 17, 1947, Serial No. 761,594
In Belgium July 31, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires July 31, 1963
4 Claims. (Cl. 23—295)



4. A process of removing sulfate ions from a solution of calcium chloride containing said sulfate ions which comprises continuously flowing said solution upwardly through a vertical reaction chamber, admitting to the bottom of said chamber a solution containing a soluble barium salt which forms insoluble barium compounds with said sulfate ions, whereby to form a precipitate of barium sulfate, keeping said precipitate in suspension in the ascending flow of liquid solely by controlling the velocity of said flow, thereby agglomerating said precipitate of barium sulfate and forming crystal clusters, said clusters serving as nuclei on which further precipitated barium sulfate is fixed and the clusters are caused to grow to substantially spherical aggregations of sufficient size to fall by gravity against the flow of said solution to the bottom of said chamber, withdrawing solution free of precipitate but containing said calcium chloride in dissolved form from the top of said reaction chamber, introducing a portion of said precipitate-free solution into the bottom of said chamber to control the supersaturation of the solution flowing upwardly in said chamber, and withdrawing the spherical crystal aggregations from the bottom of said chamber.

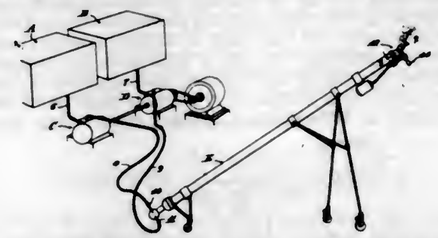
2,594,724
SPINNING SPINDLE MECHANISM, INCLUDING A WORM AND WORM WHEEL DRIVE
Louis Birkigt, Versoix, near Geneva, Switzerland
Application September 27, 1950, Serial No. 187,024
In Luxemburg October 11, 1949
7 Claims. (Cl. 57—102)



1. In a spinning machine, the combination of a frame, a vertical sleeve directly journalled in said frame, worm teeth carried by said sleeve, a worm wheel in mesh with said worm teeth, a driving shaft for said worm wheel journalled in said frame, a thrust bearing carried by said frame under said sleeve in line therewith, a vertical spindle resting on said thrust bearing and extending upwardly through said sleeve with a material play between the outer wall of said spindle and the inner wall of said sleeve, elastic means for urging said spindle toward coaxial relation with said sleeve, and cooperating means on said spindle and said sleeve, respectively, for rotatably coupling them together, the last mentioned means being arranged with radial relative play so as not to interfere with the radial displacements of said spindle in said sleeve.

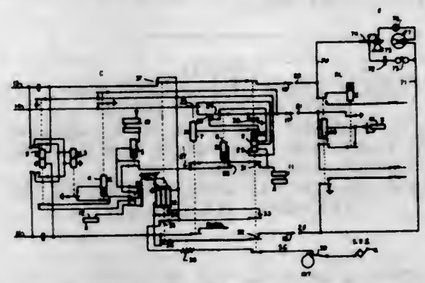
2,594,725
METHOD OF PRODUCING ARTIFICIAL SNOW
Herbert E. Britt, Los Angeles, Calif.
Application January 6, 1948, Serial No. 821
4 Claims. (Cl. 41—10)

1. The method of producing flocculent artificial snow consisting in taking two liquids including phosphoric acid and sodium silicate which are capable of coacting when intermixed to form a fragile gel, coincidently directing such liquids separately under pressure into intermixed



contact with each other through a mixing chamber in which gelling of the liquids takes place, extruding the resultant gel and breaking the gel into fractured minute flaky particles.

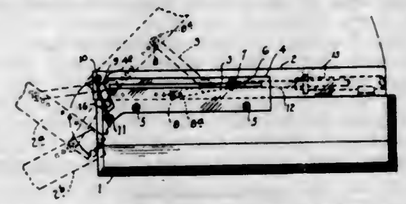
2,594,726
SIGNAL CONTROL CIRCUIT FOR TELEPHONE SWITCHING EQUIPMENT
Karl L. Burgener, Villa Park, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Original application June 28, 1945, Serial No. 601,966. Divided and this application September 24, 1947, Serial No. 775,885
11 Claims. (Cl. 179—18)



1. In a telephone system, a link circuit including a signal control relay and a source of signalling current, a called line, means in said link circuit for completing a signalling circuit over the called line, said circuit including one winding of the signal control relay, and for connecting said source of signalling current to another winding of the signal control relay to energize the relay to varying degrees thereby, said signal control relay being inoperative when energized to the greatest degree by the signalling current, and means responsive to the closure of said line for operating said relay to disconnect the source of signalling current therefrom.

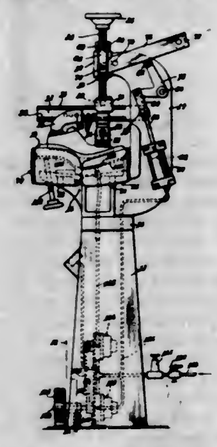
2,594,727
ACCESSORY SIDE SLOPE BLADE FOR BULLDOZERS
Ora A. Burggren, Calgary, Alberta, Canada
Application December 21, 1948, Serial No. 66,423
In Canada June 9, 1948
3 Claims. (Cl. 37—143)

1. In a conventional road scraper machine, a conventional scraper blade, an accessory road scraper blade for forming side road slopes and to be mounted on the conventional blade, a lever arm pivotally connecting these two blades together, a plate mounted rigidly on the rear face of said conventional blade and slotted lengthwise to receive a slidable bolt of the said lever arm for reciprocal movement therealong, a pivot bolt on the other end of said arm connecting same pivotally with said accessory scraper blade, means to slide said slidable bolt with its arm along said slot to raise and lower said accessory blade thereby, and in a swingable manner relative to said conventional blade, a swingable link pivotally



connecting together these two blades at their relatively coordinated ends so that the accessory blade will swing outwardly away from and reversely towards the conventional blade at one end as said bolt of the said slidable lever arm slides reciprocally within said plate slot, and an adjustable bar bracing the accessory blade to any convenient part of a road scraper machine carrying the conventional blade.

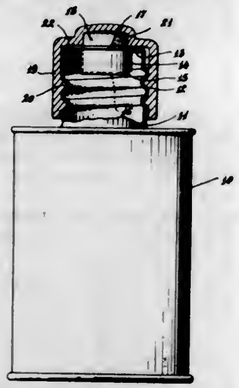
2,594,728
SHOE SOLE PRESS
Saverio Joseph Campione, North Andover, Mass., assignor to Allied Shoe Machinery Corp., Haverhill, Mass., a corporation of Massachusetts
Application May 29, 1948, Serial No. 30,053
3 Claims. (Cl. 12—36)



1. In a shoe sole press having fore and aft abutments and an inflatable bag arranged and adapted to receive work between them, means supporting said abutments comprising a member pivotally supported at one end and having said abutments adjustably supported on the member in spaced relation outward of the pivot, a block slidably mounted on said pivoted member for movements along the member, an element supported above the pivoted member and having swivel connection to said block, said element being vertically slidable in its support for rocking said pivoted member about its pivot thereby to move said abutments toward and from said bag, an actuating lever pivotally mounted adjacent to said slidable element and having a rela-

tively short lever arm pivotally connected to said element, another arm of said lever having substantial extent at the opposite side of the pivot of the lever and strongly tending by gravity about said pivot in direction to elevate said slidable element, pivoted means constantly opposing said gravitational tendency of said extending arm of the lever, and pneumatic means connected to said pivoted means and operative to move said extending arm of the pivoted lever in opposition to its said gravitational tendency thereby to apply downward thrust to said slidable element, said downward thrust being applied to said pivoted member between its pivoted end and its free end thereby to move said abutments toward said bag, and means for adjusting the limit of downward travel of said slidable element thereby to adjust the lower limit of movements of said abutments.

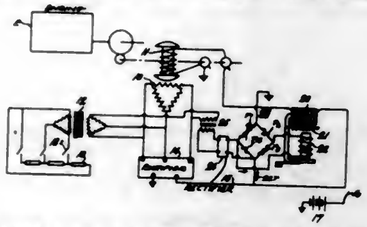
2,594,729
CLEANING FLUID CONTAINER AND APPLICATOR
Leslie R. N. Carvalho, Little Rock, Ark.
Application July 28, 1948, Serial No. 41,055
3 Claims. (Cl. 15—134)



3. In combination, a unit assembly consisting of a cup-shaped member of deformable packing material having an opening in its bottom and an outwardly extending flange at its top, a plug of absorbent material frictionally held within and filling the cup and projecting beyond the top thereof to an extent less than the depth of the cup and a cap member having an internal socket, an internal shoulder and means for holding the cap onto a container, the projecting portion of the plug being frictionally held within the socket of the cap and operating to hold the cup-shaped member to the cap, so that the cap, cup-shaped member and absorbent material may be attached as a unit to a container.

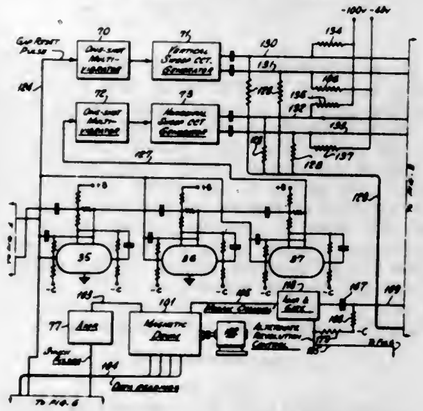
2,594,730
GENERATOR REGULATOR
Robert J. Cassidy, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application November 17, 1949, Serial No. 127,812
2 Claims. (Cl. 322—28)

1. A generating system comprising an A. C. generator driven at variable speed and having a field winding excited by direct current, a device operated by alternating current, means connected with the output terminals of the generator for supplying A. C. to the device said means including a device connecting switch, means supplying direct current to the field winding and including a rectifier having input terminals connected with the generator terminals and D. C. output terminals connected with the field winding, means for regulating the D. C. output of the rectifier and comprising a carbon pile regulator having a stack in the circuit of the field winding, a spring for applying pressure to the stack and an electromagnet opposing the spring and having a coil connected with the D. C. output terminals of the rectifier, a Wheatstone bridge comprising four



resistances and having end terminals connected with the rectifier and intermediate terminals connected with the regulator coil, said resistances having values such that a voltage is impressed on the regulator coil by the rectifier, and means rendered effective when by closure of said switch the device receives A. C. from the generator for impressing upon one leg of the bridge a voltage bucking the voltage impressed by the rectifier thereby reducing excitation of the regulator magnet and decreasing stack resistance and increasing A. C. output voltage.

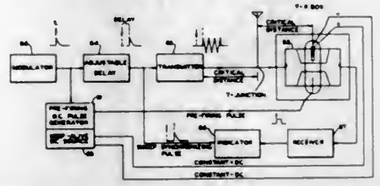
2,594,731
APPARATUS FOR DISPLAYING MAGNETICALLY STORED DATA
John J. Connolly, New York, N. Y., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application July 14, 1949, Serial No. 104,791
16 Claims. (Cl. 177—337)



1. Graphic display apparatus comprising a cathode ray tube and control circuits operably coupled to its electrodes, a source of keyed signals representing interlaced mosaic patterns for selective character delineation, said source being coupled to one of said electrodes, a blocking oscillator coupled to another of said electrodes, an electronic counter repetitively operable at a synchronizing pulse frequency and serving to trip said oscillator into action periodically, the tripping rate being commensurate with a fixed

number of synchronizing pulses, and means controlled by the development of a "hold-off" signal for selecting a predetermined synchronizing pulse which is effective in the initiation of the repetitive pulse counting process by said counter, thereby to cause said blocking oscillator to be tripped in phase with discrete mosaic block signals of a single one of said interlaced patterns, so that a selected character may be delineated on the screen of said cathode ray tube.

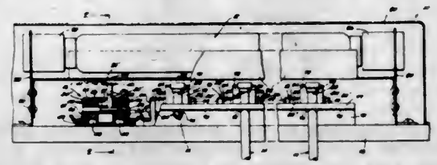
2,594,732
PREFIRED TRANSMIT-RECEIVE BOX SYSTEM
Bruce B. Cork, Peck, Mich., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application May 9, 1945, Serial No. 592,800
11 Claims. (Cl. 250—13)



5. A transmit-receive radio echo system utilizing a prefired spark gap discharge as a switch to isolate a receiver from a common antenna during periods of transmission and thereby to permit the effective use of one antenna for both transmitting and receiving, comprising modulating means for producing a series of timed trigger pulses, means for generating a pulse of relatively high potential in response to each of said trigger pulses, means for delaying the trigger pulses, a transmitter responsive to said delayed trigger pulses, an antenna, first radio frequency transmission means connecting said transmitter and said antenna, a receiver, second radio frequency transmission means connecting said receiver to a point on said first transmission means, a cavity resonator containing a pair of axially aligned electrodes extending inwardly and forming a spark gap therebetween and a nonconducting tube containing rarefied gases disposed within said pair of electrodes and extending across said resonator, said cavity resonator being connected between said receiver and the junction of said two transmission means, said tube having auxiliary electrodes adapted to be maintained at a continuous potential difference, means for impressing continuously on said auxiliary electrodes a potential difference for causing ionization, said tube also having an auxiliary electrode adapted to be impressed with pulses of high potential for causing a breakdown arc in the neighborhood of the gap at the time of each such pulse, and means connecting said means for generating high potential pulses to said last-mentioned electrode.

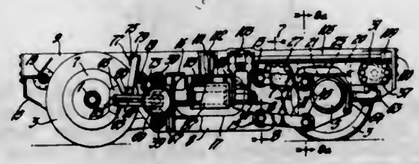
2,594,733
ANNUNCIATOR FOR ELEVATORS AND THE LIKE
David Coyne, New York, N. Y.
Application May 3, 1948, Serial No. 24,692
2 Claims. (Cl. 177—336)

1. An operating mechanism for an annunciator for an elevator car having an opening in one of its walls, comprising a unit mounted on the outside of the car and comprising a light source, a plurality of light-transmitting plastic rods, means for holding said rods adjacent the ends thereof nearest said light source so that said rod ends are individually in illuminating relation with said light source, shields for said rod ends, respectively, movable between the latter and said light source to and from block positions, respectively, in which to shield the respective rod ends from



said light source, electrical means for each shield adapted, when energized, to move the corresponding shield from its block position, and means for each shield for moving the latter into its block position, said rods extending with their other ends to the opening in the car and being there exposed to view from the interior of the car.

2,594,734
RAILWAY TRUCK
Alan R. Cripe, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 28, 1947, Serial No. 731,525
6 Claims. (Cl. 105—182)

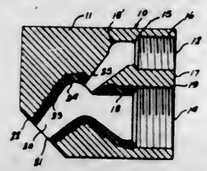


1. In a railway truck longitudinally spaced wheeled axles having end journals, journal boxes on the axle journals, a truck frame having side frame portions intermediate the axles, longitudinally extending parallel guiding links for the journal boxes, resilient bushings in the truck frame side portions and journal boxes acting in torsion, shear and compression with respect to the transverse axes of the frame and journal boxes, means pivotally connecting the opposite ends of the guiding links in the bushings of the frame and journal boxes for cushioned movement therein, transverse anti-roll torsion bars interconnecting the inner ends of the guiding links on opposite sides of the side frame portions, torsion bar springs on the frame and a lever secured to each spring and engaging a journal box, said springs and levers normally positioning the pivoted outer ends of the parallel guiding links below the inner ends thereof.

2,594,735
ANGLE HEAD ABRASIVE BLAST NOZZLE
Ernest W. Crumley, Charleston, S. C.
Application April 12, 1949, Serial No. 86,937
3 Claims. (Cl. 51—11)

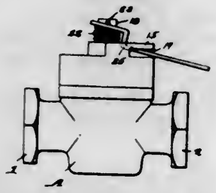
1. In a blast nozzle, a body formed with a pair of parallel inlet ports opening through one end of the body, a first passage leading from one of said ports toward the opposite end of said body, a second passage leading from the other port toward said opposite end of the body, said first and second passages having tapered discharge portions extending laterally with respect

to the axis of the passages, said discharge portions being axially aligned with each other with the discharge portion of said first passage opening through the adjacent side of the second pas-



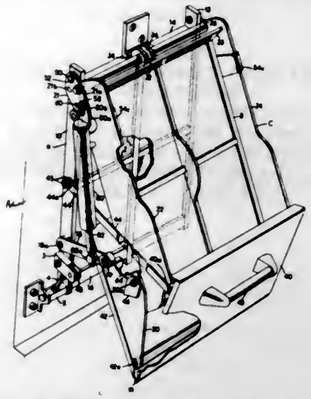
sage, said passages and discharge portions being otherwise devoid of communication with each other, and the discharge portion of said second passage opening through a side of said body.

2,594,736
PLUG VALVE
Lide C. Culp, El Dorado, Ark., assignor of one-half to Hugh J. Wilder, Tyler, Tex.
Application September 2, 1947, Serial No. 771,709
1 Claim. (Cl. 277—41)



A flow control valve comprising a valve body member having opposed inlet and outlet ports and provided with a tapered chamber formed perpendicularly between said ports, a hollow tapered plug revolubly lap seated in the tapered chamber and provided with a hollow stem having an upper end projecting out from the body member, opposed ports in the side walls of the tapered plug adapted to register with the inlet and discharge ports of the body member, a choke plug loosely and revolubly seated within the hollow tapered plug, having bores adapted to register with the bores of the tapered plug, controlling the flow of material through the plug and having a stem projecting through and beyond the hollow stem of said tapered plug, a bonnet member seated over said stems enclosing the top of the valve body member, a handle mounted on the projected end of said stem, for vertical swinging movement with respect to the stems, said bonnet member being provided with a raised parapet about a portion of the periphery thereof, said parapet having a vertical slot dividing the parapet substantially at its center, said slot opening horizontally in a clockwise direction into a slot projecting for substantially the remainder of the parapet in that direction, a perpendicularly stepped handle, said handle having an opening in which the extended end of the hollow supported plug stem is disposed, the opening in the handle being appreciably larger than the diameter of said plug stem for vertical tilting movement on the plug stem, a spring mounted on the stem of the solid choke plug normally urging the handle upwardly, the upper circumferential edge of the hollow stem being notched to receive the stepped portion of the handle when depressed thereinto, effecting the rotation of said hollow tapered plug as the handle is rotated, and the extended portion of the handle being adapted for sliding fit within the parapet slots.

2,594,737
CONTROL PANEL FOR ACCOUNTING MACHINES
James M. Cunningham, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application September 29, 1949, Serial No. 118,674
8 Claims. (Cl. 173—328)



1. In an interconnecting plugboard for an electrical accounting machine comprising a first plugboard secured to said machine and having a first set of contacts, a plugboard carrier, a split panel cover having an upper and lower panel sections pivotally coupled, a first linkage means connected to said lower panel, said linkage means being pivotally connected to said carrier, a second linkage means having limited movement coupled to the upper portion of said first plugboard, said carrier being rotatably connected to said second linkage means, said upper panel being adjustably coupled to said first plugboard, a third linkage means coupling said lower panel to the lower portion of said first plugboard, cam means secured to said first linkage means, roller means connected to the lower portion of said first plugboard, a second plugboard adapted to be inserted in said carrier and having stud elements near the upper part thereof, said second plugboard having a second set of contacts adapted to cooperate with said first set of contacts, means associated with said carrier to prevent said contacts from coming in contact with each other when said second plugboard is not properly seated within said carrier, means integral with said carrier for aligning said second plugboard with said first plugboard, plugboard locking means connected to said carrier, means swinging said panels into a closing position whereby said second contacts are first swung into a parallel position and are then lifted into contact position by the action of said cam block means riding up on said roller means, said second plugboard being locked in said carrier by said locking means when said carrier is being swung into a closed position, and means for aligning said carrier with respect to said first plugboard when in a closed position.

2,594,738
CLOTHESLINE SUPPORT
George C. Curtz, Pittsburgh, Pa., assignor to George E. Curtz, Pittsburgh, Pa.
Application September 23, 1946, Serial No. 698,758
2 Claims. (Cl. 211—119.17)

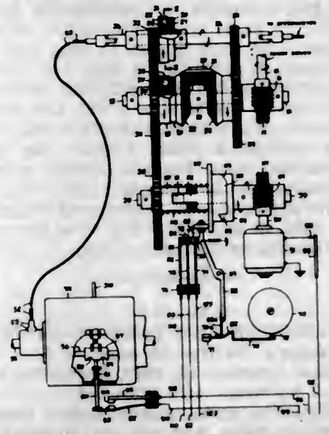
1. A manually and vertically adjustable clothes line support comprising a vertically extending

standard, and a wire rod having an intermediate portion coiled about said standard and having a loose fit for sliding movement thereon to different positions of vertical adjustment, an upper end portion connected with and extending angularly upwardly with respect to the axis of said intermediate portion to provide a hook to which a clothes line may be fastened, said hook being operable by the force of a clothes line fastened thereto to tilt said intermediate portion on said



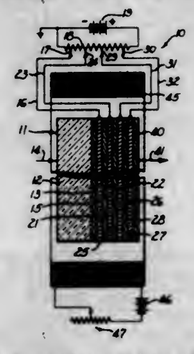
standard into gripping engagement therewith to restrain it against vertical movement thereon, and a lower end portion connected with and extending angularly outwardly and downwardly with respect to the axis of said intermediate portion, and a handle on the terminal of said lower end portion for manually operating it to move said intermediate portion out of gripping engagement with said standard and for adjusting its vertical position thereon.

2,594,739
AUTOMATIC SPEED-SIGNALING AND SPEED-CONTROLLING SYSTEM FOR AUTOMOBILES AND OTHER VEHICLES
Henry Spicer Davis, East Orange, N. J.
Application January 31, 1951, Serial No. 208,706
31 Claims. (Cl. 177—311.5)



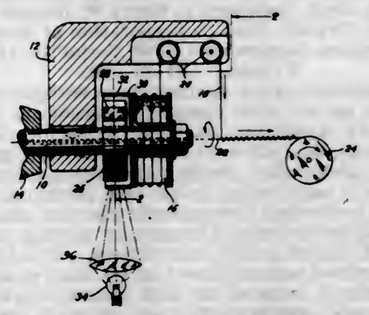
1. A speed-alarm system for automobiles and other vehicles, including in combination: a first rotary control-member; a second rotary control-member; first drive-means operatively connected to the said first rotary control-member and constructed and arranged to drive the same at at least one substantially-constant speed; second drive-means operatively interconnecting the said second rotary control-member with a variable-speed portion of a vehicle and causing the said variable-speed portion to drive the second rotary control-member; speed-changing means constructed and arranged to selectively alter the speed at which one of the said drive-means drives the control-member to which it is connected; signal-control means; translating-means jointly controlled by both of the said first control-member and second control-member and in turn translating the movements thereof into operation of the said signal-control means; and signal-means actuated by the said signal-control means.

2,594,740
ELECTRONIC LIGHT AMPLIFIER
Lee de Forest, Los Angeles, Calif., and William A. Rhodes, Phoenix, Ariz.
Application February 17, 1950, Serial No. 144,614
15 Claims. (Cl. 250—213)



6. In a light amplifier system, the combination of: a laminated cell of contacting laminae including a lamina of photoemissive material, a lamina of secondary emissive material, and a lamina of cathodoluminescent material, said laminae being arranged in the order specified; and means connected to said lamina of secondary emissive material for subjecting it to a positive potential.

2,594,741
ELECTRONIC CONTROL FOR FILAMENT WRAPPING MACHINES
Albert M. Dexter, Jr., Farmington, Conn., assignor to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application February 20, 1948, Serial No. 9,887
3 Claims. (Cl. 153—67)



1. A control for filament wrapping machines in which a filament carrying spool during nor-

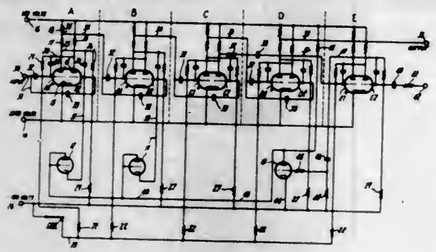
mal operation rotates with and at a different speed from guiding means therefor, an electronic circuit, a photoelectric tube therein, a mirror carried by said guiding means, a shield having an opening therein rotating with said spool whereby increasing and decreasing light flashes are imposed on said photoelectric tube, said photoelectric tube receiving said variable flashes of light from said mirror during normal operation, and said circuit operating a relay to stop said machine when said flashes cease or become constant.

2,594,742

TWO SOURCE BINARY-DECADE COUNTER

Arthur H. Dickinson, Greenwich, Conn., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application January 12, 1949, Serial No. 70,496
8 Claims. (Cl. 250—27)



8. In a binary-decade counter employing a plurality of counting elements each having first and second stable conditions, means for placing said counter in a preselected starting condition, an electronic switch having first and second positions and connected to one said element to be switched to said second position each time said element is switched to said second stable condition, pulse means independent of said counting elements and connected to said electronic switch for switching it to its first stable condition, electron tube means having first and second stable conditions and connected to a different one of said elements to apply a voltage thereto to cause a change in its stable condition when said tube means is switched to its second stable condition, a capacitive connection from said electronic switch to said tube means to switch the latter to its second position after the former has switched to its first condition.

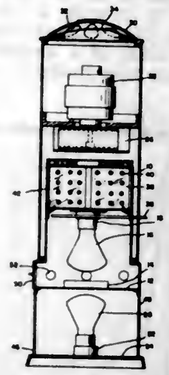
2,594,743

MOISTURE TELLER

Harry W. Dietert and Alexander L. Graham, Detroit, Mich., assignors to Harry W. Dietert Company, Detroit, Mich., a corporation of Michigan

Application September 6, 1949, Serial No. 114,146
1 Claim. (Cl. 34—60)

A moisture teller comprising a vertical casing having an air inlet opening adjacent its top, a centrally apertured partition extending across the casing beneath said opening, a motor in said casing above the opening in said partition, a blower in said casing below said partition, drive means extending through said opening connecting said motor to said blower, air heating means in said casing below said blower, an infra-red lamp in said casing below said air heating means, a specimen support in said casing below said lamp, said casing having air exhaust openings located in the side thereof above said specimen support to provide for a flow of air over material on said specimen support to carry away moisture, said specimen support including a support partition extending across said casing, said support partition being pervious to infra-red radiation



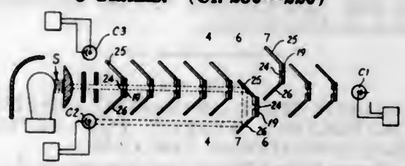
and defining a lower lamp compartment with the lower part of said casing, a second infra-red lamp in said lower lamp compartment, said lower lamp compartment having air openings to provide for a cooling circulation of air therethrough.

2,594,744

OPTICAL COMPARING UNIT

Marion R. Dilling, Hastings-on-Hudson, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 1, 1950, Serial No. 165,567
5 Claims. (Cl. 250—220)



1. In a comparing device having two sets of denominationally ordered elements settable to represent two amounts, a positionable comparison member in each order controlled by the related elements of such orders to take any one of three positions in accordance with the three possible comparison conditions existing between the digital settings in the related order, the combination therewith of a source of light, a trio of light responsive devices, a light reflector for each of said comparison members and means controlled by the members for positioning their related reflectors intermediate said source and said devices to direct light to a different device for each of the three conditions of comparison.

2,594,745

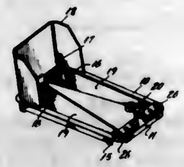
PROJECTOR AND TARGET GAME

John J. Di Meo, Newark, N. J.

Application January 13, 1948, Serial No. 1,930
1 Claim. (Cl. 273—101)

A ball throwing game comprising a base having depending sides adapted to support it on a table and an elongated platform sloping downwardly from the rear to the front, the platform including two depressed runways wider at the rear than at the front, a back stop across the

rear and extending forwardly, an upwardly extending post near the rear of each depressed runway and adapted to support targets thereon, an L-shaped leaf spring having its lower end pivoted to the center of the base at the front to swing about a vertical axis and having its long end extending upwardly at an obtuse angle with the base of slightly more than 90° and flexible to vary said angle, a ball thrower fixedly secured to the upper end of the spring and having a



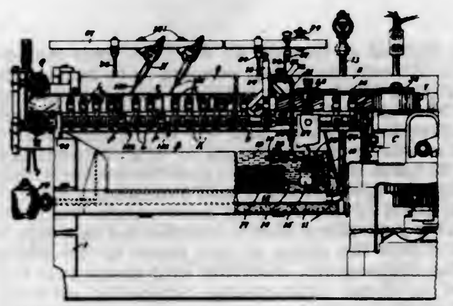
rearwardly opening ball receiving cup to the rear of the spring and a grip to the front of the spring, whereby the ball thrower may be aimed in different horizontal directions and when released, after bending the spring, may impart energy to the ball to throw it in the direction aimed under the impulse of the release spring, and ball supports across the front of the base at the foot of the runways and at each side of the ball thrower.

2,594,746

FLOORING STRIP FINISHING MACHINE

Irvin F. Dittmar, Williamsport, Pa., assignor to The Cromar Company, Williamsport, Pa., a corporation of Pennsylvania

Application January 25, 1949, Serial No. 72,617
21 Claims. (Cl. 118—100)



1. For use in a machine of the character described having means for guiding and propelling a flooring strip on edge in its passage therethrough, a finishing material applicator, said applicator comprising a block adapted to extend across a face of the strip and having an upper side edge disposed at an inclination to the vertical, a troughway in and extending along the upper side edge of the block and adapted to receive adjacent its upper end liquid finishing material, an elongated outlet passageway in that face of the block intended for engagement with the strip face, and the block being provided with a plurality of individual passageways each having an upper end communicating with said trough and an opposite lower end communicating with said elongated outlet passageway, and the upper ends of the block passageways communicating with the trough at spaced apart points along the length of the trough.

2,594,747

CIGARETTE MAKER

George W. Du Laney, Camden, N. J.

Application December 29, 1948, Serial No. 67,963
2 Claims. (Cl. 131—70)



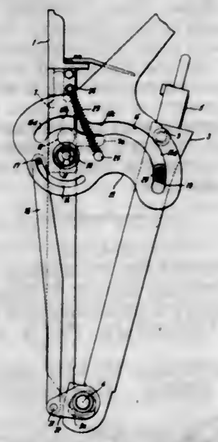
1. In a cigarette maker, a mold having separable parts which cooperate, having a tubular mold cavity which is open at the separation of said parts and which is adapted to receive a tube of cigarette paper, having an inlet opening to the mold cavity at one end and having lug slots along the line of separation of the parts at the inlet opening, and a nozzle located in the mold at the inlet opening and having lugs in the lug slots and adapted to clamp a tube of cigarette paper between the nozzle on the inside and the mold on the outside.

2,594,748

CONTROL PANEL FOR ACCOUNTING MACHINES

Howard Davis Earl, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

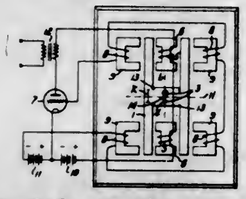
Application October 29, 1949, Serial No. 124,467
8 Claims. (Cl. 173—328)



1. In an interconnecting plugboard for electrical accounting machines comprising a fixed plugboard having a first set of contacts, a guide assembly loosely pivoted to said plugboard, a control panel having a second set of contacts adapted to be inserted in said guide assembly, an operating arm having an arcuately shaped slotted portion pivotably coupled to said plugboard, means operably coupling said slotted portion with said guide assembly such that said slotted portion determines the path of movement for said panel whereby the initial movement of said arm causes said panel to be brought into a

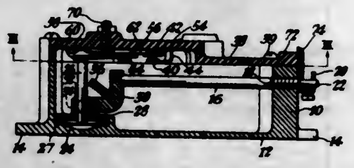
position vertical and parallel with respect to said plugboard with said first and second set of contacts being in a non-touching over-lapping position, a first cam means coupled to said arm, a plate having a second cam means integral therewith movably secured to said plugboard, said second cam means adapted to operate upon said assembly, roller means attached to said plate, said first cam due to the further movement of said arm vertically moving said plate by pushing upward against said roller whereby said second cam operates to lift said panel thereby bringing into engagement said first and second set of contacts, and means for moving said second set of contacts horizontally thereby causing a wiping with said first set of contacts.

2,594,749
MECHANICAL VIBRATION SYSTEM
Kurt Ehrat and Vladimir Milliquet, Baden, Switzerland, assignors to "Patelhold" Patentverwertungs- & Elektro-Holding A.-G., Glarus, Switzerland
Application December 10, 1945, Serial No. 634,040
In Switzerland December 13, 1944
4 Claims. (Cl. 84—409)



1. A tuning fork generator comprising a vibratory member having a series of four prongs symmetrically disposed with respect to a point thereof, a supporting base, electromagnetic means on said base for setting adjacent prongs of said vibratory member into vibration towards and away from each other, whereby the stresses imposed upon said point of symmetry of the vibratory member by the flexing of alternatively arranged prongs neutralize each other and said point of symmetry is not subject to translatory and rotary stresses, and means extending at least approximately through said point of the vibratory member rigidly securing said vibratory member to said base.

2,594,750
THERMOSTATIC CONTROL DEVICE
Samuel G. Eskin and Harold W. Rice, Los Angeles, Calif., assignors to Robertshaw-Fulton Controls Company, Greensburg, Pa., a corporation of Delaware
Application February 23, 1949, Serial No. 77,766
7 Claims. (Cl. 200—137)



1. A thermostatic control device comprising a box-like thermal element having a bottom adapted to be secured to a heat transferring surface and sides disposed substantially normal to said bottom, an elongated member secured at one end to one of said sides and extending into said box-like thermal element substantially parallel to said bottom, said member having a coefficient of expansion different from that of said element, snap action means positioned within said box-like thermal element adjacent the other end of said member and having a reciprocable operating element, connection means between said snap action means and said other end of said member for actuating said snap action means upon movement of said other end relative to said snap action means, and control means operatively engageable by said operating element.

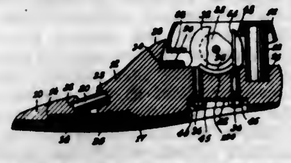
2,594,751
THIGH LIMB AND METHOD OF PRODUCING SAME
Otto Ivan Fahlström, Stockholm, Sweden
Application March 31, 1949, Serial No. 84,542
In Sweden April 29, 1944
1 Claim. (Cl. 113—116)



A method of making an artificial limb including a limb-stump socket adapted to be removably supported in an outer artificial limb casing and to be repeatedly reshaped to conform with changes in the shape and size of the limb stump of the wearer over a period of time without the use of casts, molds and like pattern means, which comprises draw-pressing and stamping a continuous sheet of a malleable light-weight metal to provide a seamless sleeve, hammering said sleeve to conform the shape of said sleeve to the shape of the limb-stump, inserting said sleeve into the outer artificial limb casing, removably securing said sleeve to said casing, removing said sleeve from said casing, hammering said sleeve to shrink and deform it to a form again conforming to the shape of the limb-stump, and again removably securing said sleeve to said casing.

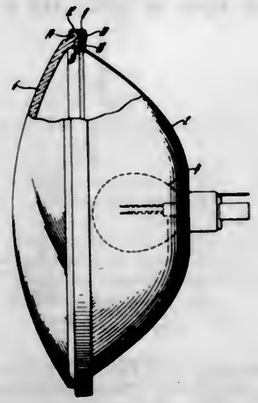
2,594,752
JOINT CONSTRUCTION FOR ARTIFICIAL LIMBS
Otto Ivan Fahlström, Stockholm, Sweden
Application December 6, 1950, Serial No. 199,379
3 Claims. (Cl. 287—96)

1. A joint construction for artificial limbs, comprising a socket member adapted to be secured to an artificial foot, means forming a transverse bore in said socket member, a tubular member extending axially through said bore and pivotally mounted therein, wing portions extending laterally from the rear of said socket member, a saddle connected to said tubular member and adapted to pivot about said socket member, said saddle having trunnion portions engaging said wing portions during pivotal movement of said saddle whereby to prevent rotational movement



of said saddle, said saddle member being adapted to be connected with the lower portion of the artificial limb.

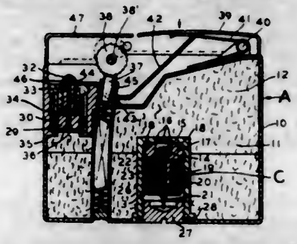
2,594,753
SEALED BEAM LAMP
Robert N. Falge, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 6, 1949, Serial No. 119,925
12 Claims. (Cl. 313—113)



1. In a unitary lamp in combination, a reflector, a lamp bulb attached to said reflector, a lens clamped to said reflector and a gasket interposed between said reflector and said lens, said gasket having a tough elastic core and an adhesive or tacky surface for adhesively bonding said gasket to said lens and reflector surfaces to seal said lamp against the admission of atmosphere.

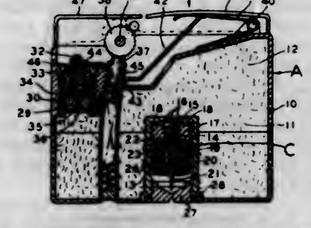
2,594,754
LIQUEFIED PETROLEUM GAS LIGHTER
Paul W. Felt, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application July 11, 1951, Serial No. 236,261, which is a division of application Serial No. 161,874, May 13, 1950, now Patent No. 2,561,270, dated July 17, 1951. Divided and this application January 26, 1952, Serial No. 268,398
2 Claims. (Cl. 67—7.1)

1. A pyrophoric liquefied petroleum lighter having a pressure-tight body, the walls of which form a chamber for receiving a liquefied petroleum fuel under pressure, an outlet valve nozzle extending through a wall of said body, said latter wall having a stepped portion, a flint tube having a flint resiliently mounted therein adjacent said valve nozzle, a flint abrading wheel for said flint, a finger piece lever pivotally mounted to said body, a valve lifting lever lying on said body below said finger piece, one end of which slidably engages the inner surface of said finger piece and the other end of which engages said outlet valve nozzle, said valve lifting lever having a concave portion extending into said stepped portion of said wall, said concave portion forming a fulcrum with said stepped portion of



said wall to operate said valve, said finger piece operating said flint wheel to shower sparks over said outlet valve nozzle and simultaneously operating said lever to lift said valve nozzle to open the same.

2,594,755
LIQUEFIED PETROLEUM GAS LIGHTER
Paul W. Felt, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Original application July 11, 1951, Serial No. 236,261, which is a division of application Serial No. 161,874, May 13, 1950, now Patent No. 2,561,270, dated July 17, 1951. Divided and this application January 28, 1952, Serial No. 268,608
2 Claims. (Cl. 67—7.1)

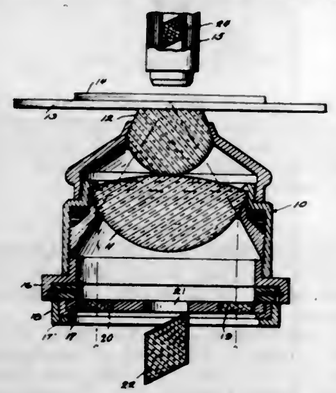


1. A cigarette lighter comprising a hollow body adapted to form a fuel chamber for compressed liquefied fuel, said fuel chamber being pressure-tight to prevent the fuel from escaping therefrom while it is held in said chamber under pressure, an escapement valve in a wall of said body, said escapement valve including a pressure reducing means, a nozzle, and a shut-off valve, an injection valve in a wall of said body spaced from said escapement valve, each of said valves being normally closed, means for simultaneously opening said escapement valve and igniting the gas escaping therefrom to provide a flame, said fuel chamber being adapted to be filled through said injection valve from a source of compressed liquefied fuel to charge the fuel chamber with a supply of liquefied fuel where it is maintained under pressure.

2,594,756
POLARIZING AND OPTICALLY STAINING DARK FIELD MICROSCOPE
Karl A. Fischer, Washington, D. C.
Application May 13, 1948, Serial No. 26,911
2 Claims. (Cl. 88—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In combination with a microscope having a condenser lens and an analyzer aligned on an

optical axis: a centrally apertured opaque annular diaphragm, an annular transparent non-polarizing color filter having a central aperture and concentric with said opaque annular diaphragm, the effective area of said annular color filter being contiguous to said opaque annular diaphragm, and light polarizing means aligned on said optical axis with the central aperture of said opaque annular diaphragm, the effective area of said light polarizing means being coextensive with the central aperture of said opaque diaphragm and out of register with the effective area of said annular color filter, said light polarizing means and the central apertures of said opaque annular diaphragm and of said annular color filter being aligned on said optical axis, said condenser lens being positioned intermediate said analyzer on the one hand and said opaque annular diaphragm, annular color filter and light polarizing means on the other hand; whereby polarized and colored non-polarized light are separately and simultaneously transmitted through said condenser lens onto a dark field and whereby optically active and inactive material may be simultaneously observed through said analyzer in said dark field.

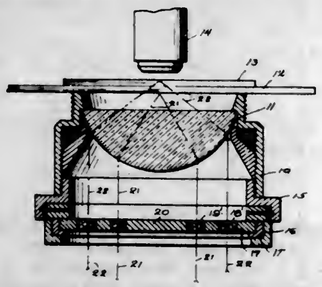


2,594,757

MEANS FOR ILLUMINATING A MICROSCOPE DARK FIELD WITH LIGHT IN CONTRASTING COLORS

Karl A. Fischer, Washington, D. C.

Application May 13, 1948, Serial No. 26,912
8 Claims. (Cl. 88—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



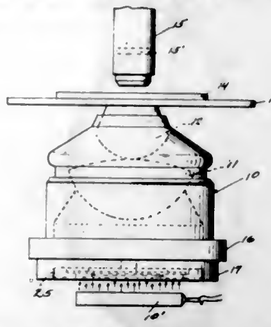
1. In a dark field microscope: the combination of a circular opaque diaphragm, an annular transparent color filter inset in the outer region of said opaque diaphragm, and a second annular transparent color filter of a different color inset in said opaque diaphragm concentrically with and interiorly spaced from said first annular color filter, said second color filter surrounding the central opaque portion of said diaphragm, and a non-achromatic condenser lens spaced from said diaphragm, the center of said diaphragm being located on the optical axis of said condenser lens whereby an object undergoing microscopic examination in the microscope object plane may be illuminated in more than one color by the differently colored lights transmitted through said color filters, which are projected by said non-achromatic condenser lens onto said microscope object plane at spaced focal points located on the optical axis of said condenser lens.

2,594,758

DARK FIELD COLOR FILTER WITH POLARIZING MEANS FOR MICROSCOPES

Karl A. Fischer, Washington, D. C.

Application January 18, 1949, Serial No. 71,522
11 Claims. (Cl. 88—40)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A composite light filter structure comprising a centrally apertured opaque annular diaphragm, an annular transparent non-polarizing color filter having a central aperture and concentric with said opaque annular diaphragm, the effective area of said annular color filter being contiguous to said opaque annular diaphragm, and a circular transparent filter of a contrasting color aligned with the central aperture of said opaque annular diaphragm, said circular filter including a light polarizing means and the effective area of said circular filter being out of register with the effective area of said annular non-polarizing color filter, said circular filter and the central apertures of said opaque annular diaphragm and of said annular non-polarizing color filter being aligned on the same optical axis; whereby colored non-polarized light and contrastingly colored polarized light may be separately and simultaneously transmitted through a condenser lens onto a microscope dark field and whereby optically active and inactive material may be simultaneously observed in contrasting colors in said dark field.

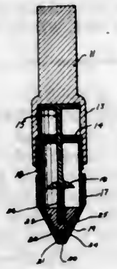
2,594,759

BALL POINT NEEDLE FOR PHONOGRAPHS

Herbert A. Fischer, Langdon, N. Dak.

Application October 28, 1949, Serial No. 124,210
1 Claim. (Cl. 274—38)

A phonograph needle comprising a shank having one end formed for securement to a phonograph pickup cartridge, a skirt projecting from the other end of said shank and secured thereto, a hollow cap member having one end open and having the other end formed with a conical tip portion, interengaging means formed exteriorly of said cap member contiguous to the open end thereof and interiorly of said skirt for adjustably securing said cap member in end to end relation with respect to said skirt, the apex of said conical tip portion being provided with an aperture, a record engaging contact ball positioned within said conical tip and seated within said aperture, a bearing element disposed within said conical tip portion and abutting against the walls of the latter for loosely supporting said ball for rotation within said aperture during the playing of a record, a stem disposed axially within said skirt and hollow cap member and having one end secured within said skirt and having the other end terminating in said cap member adjacent to and spaced from said bearing element, and spring means disposed axially within said hollow cap and having one end operatively connected to said bearing element and having the other end supported within said terminating end of said stem for urging said bearing element into abutment with said conical wall.

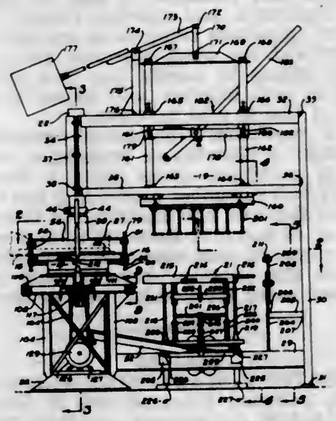


2,594,760

MOLDING APPARATUS

Stephen Flam, Sherman Oaks, Calif.; John Flam, Joseph Flam, and August Flam executors of said Stephen Flam, deceased

Application April 14, 1947, Serial No. 741,223
6 Claims. (Cl. 25—41)



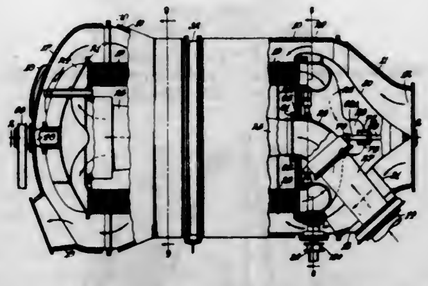
1. In a molding apparatus: an open-ended mold; a mold filling station structure; a mold stripping station structure; a support movable between said station structures for transporting filled molds from the filling station structure to the stripping station structure; means for raising or lowering said support to raise or lower the mold from or onto the filling station structure, said support being free of the mold when the mold is in operative relation upon the filling station structure; said mold and support having cooperating parts restraining the mold from all relative movement and ensuring a definite alignment between the mold and the support; and cooperating mechanism on the mold support and stripping station structure for aligning the support at the stripping station structure.

2,594,761

HEAT EXCHANGER

Arthur Holmes Fletcher, Littleover, Frank Henry Stark, Chellaston, Robert William Corbitt, Tunstall, Sittingbourne, and William Sherlaw, Nottingham, England, assignors to Rolls-Royce Limited, Derby, England, a British company

Application December 29, 1947, Serial No. 794,274
In Great Britain January 2, 1947
5 Claims. (Cl. 257—226)



1. A heat exchanger of the kind referred to comprising a casing having an inlet and an outlet for one medium, a hollow matrix of heat-exchanger tubes within the casing and having an inlet connection and an outlet connection for the second medium, a plurality of trunnions connected to said matrix with their axes in a plane transverse to the axis of said matrix, a plurality of socket rings, one for each of said trunnions, mounted on said casing, a further trunnion connected to said matrix in a plane removed from said transverse plane and having its axis parallel to the axis of said matrix, a further socket ring for said further trunnion mounted on said casing, each of said trunnions being capable of movement in the direction of its axis with respect to its associated socket ring, and some of said trunnions and their associated socket rings having means permitting relative tilting between the casing and matrix, said means being arranged between said socket rings and said trunnions.

2,594,762

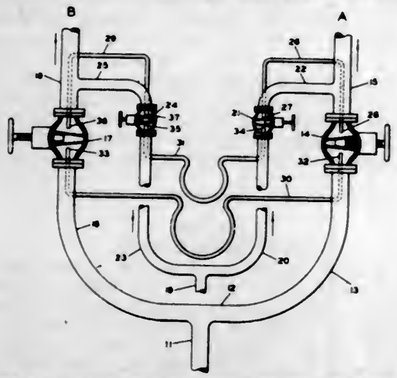
FLUID DISTRIBUTION SYSTEM

Robert R. Freund, Mexico City, Mexico, and William H. Creel, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware

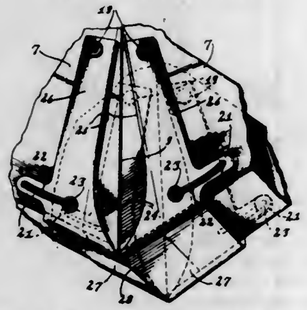
Application December 26, 1945, Serial No. 637,166
6 Claims. (Cl. 137—78)

1. In a hot fluid distribution system, a main conduit, a branch conduit having a valve therein, and a relatively small auxiliary conduit positioned inside said other conduits, said auxiliary conduit having a portion extending into said branch conduit to a position adjacent said valve and another portion concentric with and extend-

ing axially into said main conduit so arranged that flow of fluid through said main conduit produces a secondary circulation of fluid through said auxiliary conduit.



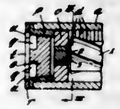
2,594,763
CLAM-SHELL BUCKET
Ernest T. Freyer, Chicago, Ill.
Application April 13, 1948, Serial No. 20,752
1 Claim. (Cl. 37—184)



In a clam shell bucket provided with two jaw sections adapted to open and close in sealed relationship at the bottom and sides thereof, an attachment comprising two auxiliary jaw sections of U shaped formation, the bottom lip portions of the said auxiliary jaw sections being wider than the upright attaching portions thereof, the said upright portions merging with the said bottom lip portions so as to form an opening between the lip portions of the said upright portions when the said bottom lip portions are in intimate contacting relationship, the said auxiliary jaw sections being articulately attached to the said first mentioned jaw sections, adjusting means secured to the first-mentioned jaw sections, and slotted ear portions on the said auxiliary jaw sections engaging the said adjusting means affording adjustment of the said auxiliary jaw sections to operative and inoperative positions.

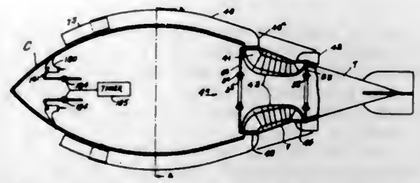
2,594,764
ROTARY BLADE SAFETY RAZOR
Ernest Charles Garrard, Maidenhead, and Kenneth Harrold, Taplow, England, assignors to The Fairey Aviation Company Limited, Hayes, England
Application September 23, 1947, Serial No. 775,690
In Great Britain September 26, 1946
3 Claims. (Cl. 30—43)

1. A head for a safety razor of the type in which a bladed member is revolved within a slotted head, said head being cylindrically tubular and being formed with a longitudinal slot having a cutting edge adapted to be engaged by a bladed member disposed within the head, and



screw wedge means readily operable by a user for expanding the inner diameter of said head when moved in one direction and for permitting contraction of the head when moved in a second direction.

2,594,765
RESONANCE COMBUSTION APPARATUS
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Paxton, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application October 6, 1945, Serial No. 620,826
4 Claims. (Cl. 60—35.6)



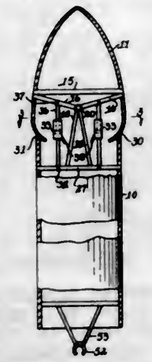
2. In an aircraft, a resonance combustion apparatus comprising a plurality of propulsion units mounted in a peripheral series about the longitudinal axis of said craft and each having an air collector, a combustion chamber and a discharge nozzle all disposed in longitudinal relation but with said combustion chambers offset radially inwardly and out of alignment with both said collectors and said nozzles, a valve member rotating about said axis and having axially spaced and substantially cylindrical peripheral portions provided with ports and effective to alternately open and close the entrance and exit passages to said off-set combustion chambers, and starting means for said resonance apparatus comprising an injector directed toward the open entrance end of each collector, means to supply fuel and air under pressure to each injector, and means to control the flow of fuel to said injectors.

4. In a resonance combustion apparatus, in combination, a plurality of propulsion units arranged in a circular series about a fixed axis, a rotating valve member controlling the delivery of air and fuel and the discharge of combustion gases in all of said propulsion units, and counterbalance rings for said valve member which are rotated in the opposite direction and in predetermined speed relation by said member.

2,594,766
APPARATUS FOR STEERING AIRCRAFT
Robert H. Goddard, deceased, late of Annapolis, Md., by Esther C. Goddard, executrix, Worcester, Mass., assignor of one-half to The Daniel and Florence Guggenheim Foundation, New York, N. Y., a corporation of New York
Application November 30, 1946, Serial No. 713,312
1 Claim. (Cl. 244—75)

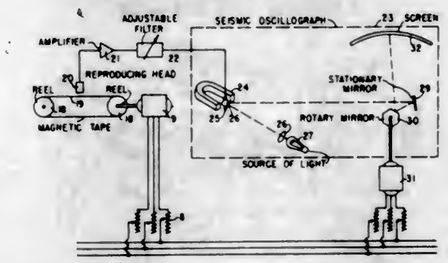
A rocket craft comprising a closed casing having a rigid cylindrical body portion, a rigid

and substantially conical front end casing portion and a rear casing portion, swivel supports for said front end casing portion on said body portion, and a plurality of fluid-operated thrust devices equally spaced circumferentially within said closed casing and interposed between a fixed support in said body portion and cross arms in said front end casing portion, said thrust



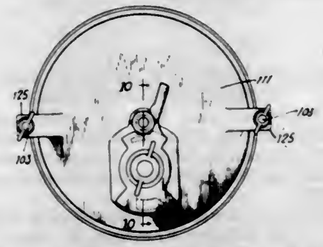
devices being operative in diametrically opposed coacting pairs, and said pairs being selectively effective by direct axial operation to change the angular relation between said fixed support and the cross arms in said front end casing portion to which said thrust devices are connected, and to thereby angularly displace said front end casing portion relative to said body portion to accomplish steering of said rocket craft.

2,594,767
METHOD OF SEISMIC SURVEYING
Robert P. Green, Tulsa, Okla., assignor to Engineering Laboratories, Inc., Tulsa, Okla., a corporation of Oklahoma
Original application November 1, 1943, Serial No. 508,590. Divided and this application February 8, 1946, Serial No. 646,341
8 Claims. (Cl. 175—183)



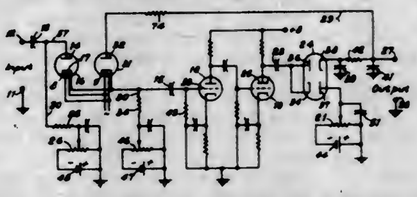
4. In seismic prospecting, the method of analyzing a seismic record obtained by creating a disturbance in the earth at one point and phonographically recording the vibrations resulting from the disturbance at a point removed from said one point which comprises, repeatedly translating all of said recorded vibrations into electrical signals by a variable speed reproducing unit, passing a band of said signals through a filter adapted to transmit a limited band of frequencies, translating said passed signals into a non-persistent visual trace, and varying the speed of said reproducing unit to vary the frequency of said signals so that the signals representing different portions of the frequency range covered by said recorded vibrations are passed by said filter, whereby said traces may be observed to determine the setting of said variable speed reproducing unit which will result in production of a trace furnishing desired information.

2,594,768
ROTARY STIRRER AND LIQUID DISPENSING VALVE
Nicholas Grubelic, East Farmingdale, N. Y., assignor of thirty-three and one-third per cent to Israel Kushner, Great Neck, N. Y.
Application July 21, 1945, Serial No. 606,353
3 Claims. (Cl. 222—410)



1. A dispensing head for the open end of a can comprising a cylindrical flange adapted to be inserted into the open end of the can, said head having a flat wall adapted to contact the outer surface of the open end of the can, and said head being formed with a wall having a pair of opposite arcuate slots, a screw threaded stem extending from said last-mentioned wall, a valve plate rotatably mounted on said stem, a nut on said screw threaded stem to press said valve plate against said last-mentioned wall, said valve plate having an outwardly extending handle and being formed with wings adapted to cover said slots, and said head being formed with integral wings adapted to extend beyond said can, said last-mentioned wing being formed with through openings, parallel rods extending through said openings, said rods having hooks to engage the bottom of the can, and nuts screwed on said rods and contacting said last-mentioned wings to take up said rods for fixing said head to a can.

2,594,769
LINEAR DETECTOR
Everett B. Hales, Mount Kisco, N. Y., assignor to General Precision Laboratory Incorporated, a corporation of New York
Application September 30, 1948, Serial No. 51,973
4 Claims. (Cl. 250—27)



1. A linear detector comprising a diode rectifier having its anode connected to a source of signals to be detected and its cathode connected to the input of a high gain amplifier for transmitting only positive portions of said signals to said amplifier for amplification thereby, a demodulator connected to the output of said amplifier converting the transmitted and amplified portions of said signals to a direct current potential, an output circuit connected thereto, a direct cur-

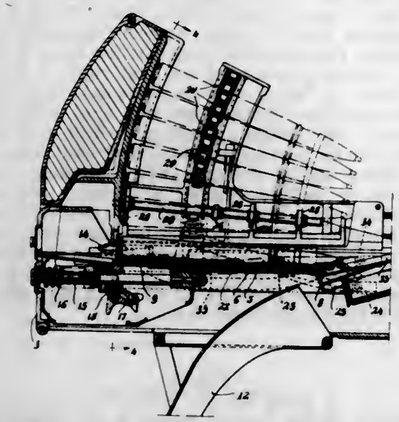
rent feedback circuit connected between a positive terminal of said output circuit and the cathode of said diode rectifier whereby the potential of said diode cathode is varied in accordance with said output potential and only the positive peaks of said input signals are transmitted by said diode rectifier, said feedback circuit including a second diode having its anode connected to said output circuit and its cathode connected to the cathode of said diode rectifier, and a common supply source energizing the heaters of said diode rectifier and said second diode whereby the diode potentials of said diode rectifier and said second diode are varied equally by any change in potential of said supply source.

2,594,770

FEED AND RAMMER ARRANGEMENT AT AUTOMATIC FIREARMS

Victor Hammar and Gustaf Dahlbäck, Bofors, Sweden; Hedvig Irene Dahlbäck, administratrix of said Gustaf Dahlbäck, deceased, assignors to Aktiebolaget Bofors, Bofors, Sweden, a Swedish company

Application November 5, 1945, Serial No. 626,643
In Sweden February 7, 1942
Section 1, Public Law 690, August 8, 1946
Patent expires February 7, 1962
8 Claims. (Cl. 89—33)



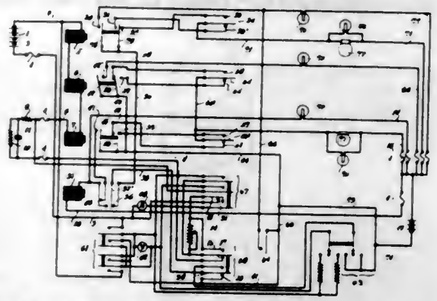
1. In an automatic firearm having a recoilable tube, a feed and rammer device comprising a loading bridge, a magazine located above the bridge, an automatically operating rammer adapted to propel into the breech of the firearm a cartridge resting on the bridge, and two successively operating feed-down mechanisms adapted to feed cartridges from the magazine to the bridge, one mechanism being actuated by recoil and the other by counter-recoil of the tube, the recoil actuated mechanism comprising means engaging the lowermost cartridge in the magazine and means for moving said first means toward the bridge as the tube recoils, whereby the lowermost cartridge in the magazine is fed to the bridge when the tube recoils, and the counter-recoil actuated mechanism comprising means engaging all but the lowermost cartridge in the magazine, and means for moving the last-mentioned means toward the bridge as the tube is moved by counter-recoil, whereby all the other cartridges are fed down one step in the magazine.

2,594,771

SUPERVISED ALARM SYSTEM

Walter Hladky and Emidio Ciccone, Newark, N. J., assignors to J. H. Scharff, Inc., East Orange, N. J., a corporation of New Jersey

Application May 3, 1950, Serial No. 159,672
6 Claims. (Cl. 177—311)



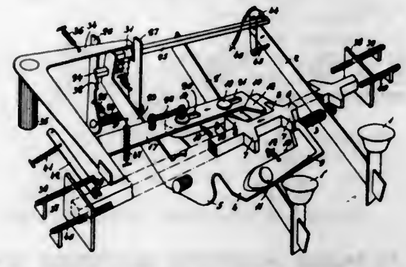
1. An alarm system including in combination three magnetic relays, the magnets of said relays requiring current flows of different values to operate them, a circuit closing detector unit, resistors of different values arranged respectively in shunt and in series with said unit, said relays being arranged in series with each other and with said unit, the assembly being connectible to a source of current supply, the first of the magnets being operatively energizable by a current flow passing through the resistor of highest value, the second of said magnets being operatively energizable by a current flow through the resistor of lower value, the third magnet being energizable solely by a current flow by-passing said unit and resistors and signalling means operated by each of said relays.

2,594,772

INCOMPLETE KEY DEPRESSION KEY LATCH MECHANISM

Johannes Hmelewsky, Helsingfors, Finland

Application June 3, 1949, Serial No. 97,038
In Sweden October 18, 1948
6 Claims. (Cl. 235—130)



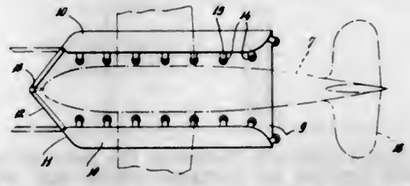
1. A calculating machine comprising a computing wheel carriage slide, numerical keys, an escapement mechanism for adjusting said slide into different digit positions, means actuated by the keys for operating said escapement mechanism, a ratchet device for locking any one of a plurality of the keys in any partially depressed position against retraction until the depression is completed, and similarly in any partially retracted position until the key is fully retracted, said ratchet device being arranged in common with respect to a plurality of the keys, and comprising a detent member and two ratchet members operative in opposite directions of movement of the detent member, means for connecting said detent member with each of said keys so as to cause the detent to follow the movement of the respective key in both directions, and a shifting member under the control of said escapement mechanism for rendering the ratchet device operative alternatively in one or the other direction of movement of the key.

2,594,773

TERMINAL EQUIPMENT FOR AIRCRAFT

Frederic R. Harris, New York, N. Y.; Michael S. Lobenthal, Monroe Percy Bloch, and Florence B. Downs executors of said Frederic R. Harris, deceased

Application November 2, 1945, Serial No. 626,303
1 Claim. (Cl. 114—43.5)



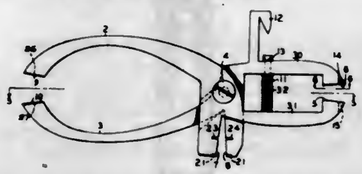
Berthing equipment for a plane comprising a vessel having a hull and walls at the sides thereof, said walls having swinging gates at one end to close the adjacent end of the space between them above said hull, said walls and gates, when the hull is submerged below the surface, defining a movable water basin to receive the plane, said gates when closed making an outjutting angle at one end of the hull, one of said gates bearing a mooring post for the plane.

2,594,774

TOOL FOR REPAIRING SLIDE FASTENERS

John S. Harris, Orlando, Fla.

Application December 31, 1948, Serial No. 68,580
3 Claims. (Cl. 81—5.1)



1. A tool of the kind described, comprising a pair of crossed pivotally connected operating levers arranged for alignment with each other in their crossed relation, opposed portions of one end of the levers extending laterally thereof and forming stops, a wedge shaped bill element carried by one of the levers, and projected laterally at substantially right angles thereto from an outer face of the same, and a displaceable member carried by the other lever and having an anvil head opposed to and coacting with the bill element on operating the levers.

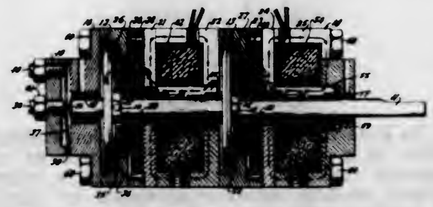
2,594,775

ELECTROMAGNETIC CLUTCH AND BRAKE SERVO MECHANISM

Richard J. Herst, Chicago, and Stanton H. Petry, Evanston, Ill., assignors to Robert O. Buehler, doing business as Buehler and Company

Application August 30, 1949, Serial No. 113,181
10 Claims. (Cl. 192—12)

1. In a servomechanism of the clutch-brake type, a shaft having spaced discs mounted thereon, a casing over the shaft providing bearings for its support, a brake ring on the casing engageable with one of said discs when the shaft is moved longitudinally along its axis in one direction, spring means biasing the shaft in said direction, forward and reverse clutch mechanisms for rotating the shaft in a selected direction, one such mechanism being associated with each disc, said clutch mechanisms each comprising a gear rotatably mounted on the shaft, a friction clutch ring on the gear engageable with the juxtaposed disc when the gear is moved in a direction opposite to that of the shaft bias, and an electromagnet for effecting said clutch engaging movement, said electromagnet comprising a coil telescoped over the shaft, a movable core within the coil and also telescoped over the shaft, and an iron circuit closed except for an operating air gap.

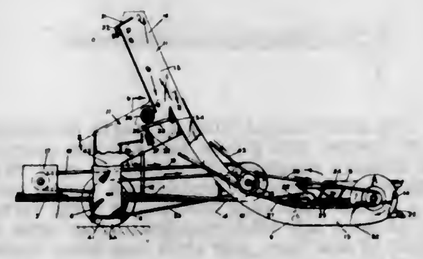


2,594,776

NUT PICKING AND SEPARATING MACHINE

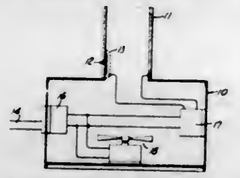
Robert C. Hiatt, Hillsboro, Oreg.

Application November 17, 1947, Serial No. 786,402
1 Claim. (Cl. 209—27)



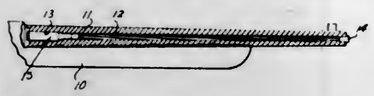
A nut separating machine comprising a rearwardly extending tubular chute having an upwardly extending inclined rear end portion with a top discharge opening, a blower at the front end of the chute, means for delivering nuts and accompanying leaves and other light particles of foreign matter and dirt directly to and at an angle to the longitudinal center of the chute in rear of the blower to be carried along in the air stream from said blower, the upper portion of the chute being open at the top and front and having a rearwardly offset rear wall forming a bottom discharge opening, a rearwardly inclined housing at and below said opening and having a discharge opening at the back, an angularly adjustable baffle at the top of said chute above said opening, a rearwardly inclined platform beneath said opening and comprising a plurality of spaced individually hinged members resiliently supported, to receive the nuts and heavy foreign material blown up through the chute and falling by gravity.

2,594,777
ION CONTROLLER
William Wesley Hicks, San Francisco, Calif., assignor to Ionics, Inc., San Francisco, Calif., a corporation of California
Application July 14, 1950, Serial No. 173,813
4 Claims. (Cl. 250—44)



1. In a device for controlling the ion concentration in a room in atmospheric air at atmospheric pressure, means comprising a source of alpha particle radiation arranged to radiate said particles into surrounding air, a grid adjacent said means and positioned a distance from the radiating surface of said means substantially equal to the maximum distance of travel of said alpha particles, means imposing a negative charge on said grid, and means for passing a stream of air past said grid and alpha particle source, whereby said grid will attract and trap positive ions produced by said alpha particles substantially at the point of their production and whereby said stream of air will sweep negative ions away from said grid into the surrounding air.

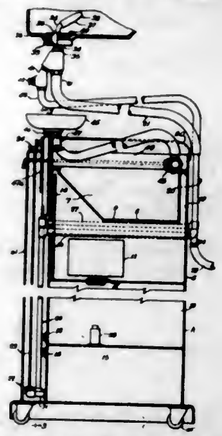
2,594,778
RUST-PREVENTING PLUG FOR BORES OF FIREARMS
Roy C. Hoard, Edinburg, Tex.
Application April 9, 1948, Serial No. 19,995
3 Claims. (Cl. 42—1)



1. The combination with a firearm including a barrel formed with a bore and a firing chamber, of a dummy cartridge insertable in said firing chamber, said cartridge including a hollow bullet and a hollow shell case, said bullet being formed with at least one vent communicating with the interior of said bore, said shell case being formed with at least one vent opening outwardly of said firing chamber, and a porous body of moisture-absorbing material in said shell case, and a plug closing the nozzle end of said bore.

2,594,779
APPARATUS FOR CLEANING AND LUBRICATING
Charles A. Huffman, Dayton, Ohio
Application December 20, 1945, Serial No. 636,138
11 Claims. (Cl. 184—1.5)

4. In an apparatus for cleaning crank cases, a nozzle adapted to be inserted in a crank case through the drain opening of the latter, said nozzle including a tubular member and a jacket arranged about the inner end portion of said tubular member to form a passage and having a reduced end portion extending beyond the end of said tubular member, means for supporting said nozzle in said drain opening and closing the latter, a conduit connected with said tubular member to supply liquid to said crank case, a second conduit connected with said tubular member to supply air under pressure to said nozzle and to cause the latter to draw liquid from



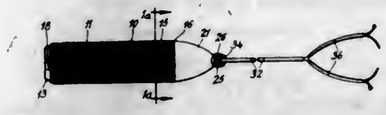
said crank case and discharge the same at high velocity against the surfaces within said crank case, and means for closing the connection between said air conduit and said tubular member.

2,594,780
EXPLOSIVE DUMP SHELL
Paul F. Lewis, Tulsa, Okla., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 26, 1948, Serial No. 23,303
4 Claims. (Cl. 102—22)



1. A dump shell for depositing explosive charges at the bottom of a vertical bore hole by means of a lowering cable under tension comprising a shell or casing for containing the explosive charge, a fully detachable closure element containing latch jack recesses for the discharge end of said shell, and tension-responsive mechanism mounted in a bail attached to the upper end of said shell, said tension-responsive mechanism comprising a hook pivotly connected to the lowering cable, a drop link adapted to be releasably engaged by said hook, a yoke secured to said drop link, yoke guiding means attached to the inside of said shell, a plurality of separated flexible members suspended from said yoke adjacent to the inner periphery of said shell, said members terminating in latch jacks adapted to engage said closure element, whereby said closure element is held in position by the wedging of the latch jacks into the latch jack recesses in said element by the lower end of the shell while the yoke is at an upper suspension point.

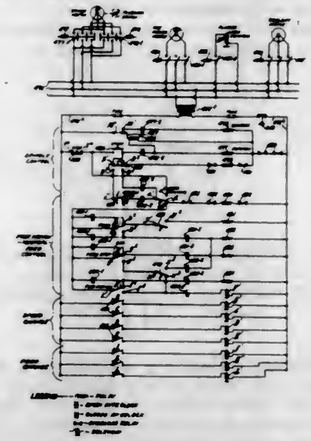
2,594,781
ARTICLE ADAPTED FOR USE AS TRANSPORT SLED, AS SLIP CONTAINER TO BE DROPPED FROM AIRCRAFT, AND AS STOVE RESPECTIVELY
Odd Magnus Magnussen, Oslo, Norway
Application February 10, 1949, Serial No. 75,716
In Sweden March 13, 1948
4 Claims. (Cl. 280—19)



1. A multi-purpose article adapted to be dropped from an aircraft comprising, an elongated container substantially rectangular in transverse section, said container having a longitudinally corrugated body portion, a door extending along one side of said body portion through which alternatively usable chimney and traction members are adapted to be passed for storage within or removal from the interior of said body portion, and a neck portion terminating in a top opening, a closure member for and detachably connected to said neck portion, said traction member including connection means at one end thereof for attachment to said closure member when the latter is connected to the neck portion of said container, and said chimney being formed at one end thereof for connection with said neck portion with said closure member removed to adapt said container when up-ended for use as a stove.

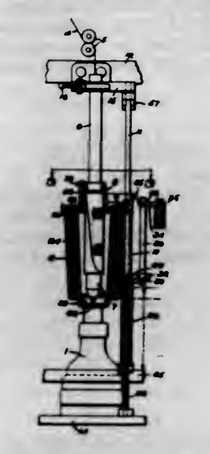
2,594,782
CONTROL FOR MACHINE TOOLS
Joseph Earle Makant and Gordon William Smithson, Pawtucket, and Kenneth Richard Wunschel, Johnston, R. I., assignors, by mesne assignments, to Niles-Bement-Pond Company, West Hartford, Conn., a corporation of New Jersey
Application October 9, 1947, Serial No. 778,774
16 Claims. (Cl. 29—64)

10. In a machine-tool, a rotatable spindle, a slide movable to-and-fro relative to the spindle, a drive means for said spindle and having an operative connection with said slide to move the latter with relatively slow feed-motions and including a feed coupler, a drive means connected with the slide to move the latter with a relatively rapid fast-motion and including a fast-motion coupler, an electrical control circuit for rendering said spindle drive means effective or ineffective and including therein a normally open start-switch biased to open position and a normally closed stop-switch biased to closed position and disposed in the line in advance of the start-switch, a fast-motion relay in a circuit fed by said spindle motor control circuit and controlling said fast-motion drive to said slide and being energized, when said start-switch is closed, a normally open holding interlock circuit for said relay fed from said spindle motor control circuit at a point between said start-switch and said stop-switch, whereby said relay is held energized when said start-switch is released and opens under its bias, and a shunt circuit connecting said spindle drive control circuit beyond said



start-switch and to said relay circuit at a point between said relay and its holding interlock, whereby said spindle drive control circuit will remain energized when said start-switch opens.

2,594,783
POT SPINNING APPARATUS
John J. McCann, Lowell, Mass.
Application January 23, 1951, Serial No. 207,315
20 Claims. (Cl. 57—76)



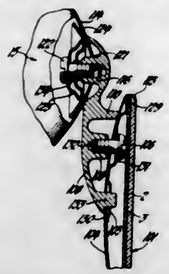
1. Yarn spinning mechanism comprising a spinning pot mounted for rotation about a strand spinning axis, means for feeding a strand along said axis into the pot, means for rotating the pot to spin the strand into a package, traversing mechanism for guiding the strand in the pot, support means carried by the traversing mechanism for holding in contracted condition and in a position adjacent the pot an expansible yarn package core in said contracted condition, a brake disposed in non-braking position adjacent to the pot and movable therefrom into braking engagement with the pot, and means associated with the brake for ejecting the core from the traversing mechanism into the pot by the pot inertia when the brake is engaged with the pot.

2,594,784

SPOTLIGHT ATTACHMENT FOR MIRRORS

Howard C. Mead, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application May 14, 1948, Serial No. 27,071
4 Claims. (Cl. 240—7.1)



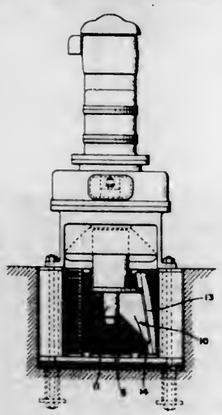
2. Means for rotatively mounting a rear view mirror on a spot lamp casing comprising: a mirror element, an outer support shell for said mirror with two apertures therein, a mounting arm having on one end a boss conforming in curvature to the outer surface of said mirror shell, means extending through one of said apertures for clamping said arm to said mirror shell, said boss having a portion extending through said other aperture for locking the mirror shell against rotation relative to the arm; a spot lamp casing provided with an aperture therein, a boss on the other end of said arm conforming in curvature to the surface of said casing adjacent to the aperture, a portion integral with said arm and journaled in the casing aperture, said boss and said portion providing bearing surfaces between said arm and said shell, radially spaced with respect to the axis of said integral portion and means within said casing secured to said integral portion for clamping said last mentioned boss against the casing.

2,594,785

COMMINUTOR

Herbert J. Meeker, Orange, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware

Application February 21, 1947, Serial No. 730,116
5 Claims. (Cl. 210—152)



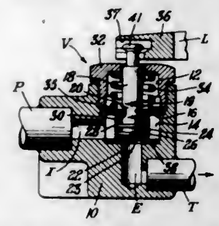
1. A comminutor for a sewage channel comprising, a semi-cylindrical bar cage member transversely mounted in said sewage channel provided with a plurality of openings cutting said bar cage member in planes perpendicular to the axis thereof, the concave surface of said bar cage member facing upstream having at least one recess formed therein spaced from the sides of said bar cage and disposed substantially perpendicularly to said openings, a comb removably seated in said recess having cutting and shredding teeth extending upstream of said concave surface of the bar cage member in alignment with said openings, removable means engaging one end of said comb for holding it in said recess, a cutting and shredding arm mounted for oscillation about the axis of said bar cage member and located on the upstream side of said concave surface of the bar cage and having teeth thereon interengaging the teeth of said comb, and driving means for oscillating said cutting and shredding arm over the concave surface of said bar cage.

2,594,786

POWDER VALVE

Edward Meincke, Summit, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application April 12, 1945, Serial No. 587,865
3 Claims. (Cl. 251—31)



1. A powder-laden compressed-fluid valve construction comprising, in combination, a body having a valve chamber provided with a central outlet, a diaphragm constituting the top of said chamber above said inlet, said diaphragm having a central hole, a valve composed of soft material in said chamber adapted to cooperate with said seat, a valve stem extending through such hole, annular spacing means extending longitudinally of said stem and disposed between said valve and said diaphragm, and a compression spring of substantially the same diameter as said annular means surrounding said stem and acting on the annular area of said diaphragm opposite said annular means, urging the valve closed and also urging the diaphragm into powder sealing contact with said annular means.

2,594,787

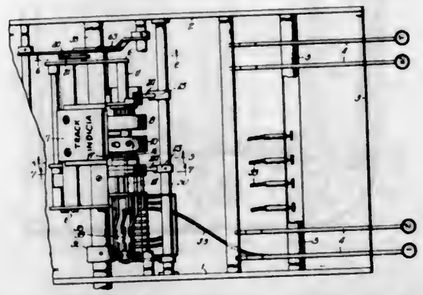
TICKET PRINTING AND ISSUING MACHINE

John R. Montgomery, Chicago, Ill., assignor to American Totalisator Company, Inc., Baltimore, Md., a corporation of Maryland

Application August 25, 1949, Serial No. 112,341
11 Claims. (Cl. 101—66)

1. In a ticket printing and issuing machine in which a cage is rotated through one revolution to print a ticket for issuance and a printing wheel on said cage is rotated during the initial movement of the cage to set it to print on the ticket a number corresponding to a depressed key in the machine, a control for said printing wheel comprising: a plurality of bell cranks mounted upon a stationary part of the machine in juxtaposition to said cage; means connecting each key to a corresponding bell crank to operate the bell crank when the key

is operated; a plurality of stop bars mounted upon the cage, there being a stop bar for each of the ten printing positions of the printing wheel; a control lever for each stop mounted on said cage and adapted to be operated by a corresponding bell crank in operated position; latch means for holding an operated control lever in operated position thereby to maintain the associated stop in operated position; a stop pin on the printing wheel adapted to engage an



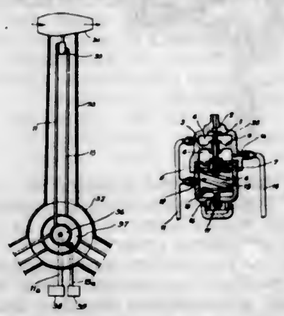
operated stop bar to position the printing wheel with a selected number in printing position; a spring tensioned to rotate the printing wheel; a pinion fixed on the printing wheel; a gear segment on the cage movable with respect thereto and engaged with said pinion; a cam roller on said cage connected to said segment; and a stationary cam engaged by said roller and shaped to permit said spring to rotate the printing wheel as the cage rotates thereby to set the wheel to print a number corresponding with an operated key in the machine.

2,594,788

FUEL FEEDING OF ENGINES ARRANGED AT THE ENDS OF THE BLADES OF A ROTARY WING

Paul Morain, Paris, France, assignor to Societe Nationale de Constructions Aeronautiques du Sud-Ouest (Societe Anonyme), Paris, France, a company of France

Application July 19, 1949, Serial No. 105,496
In France August 17, 1948
10 Claims. (Cl. 60—39.35)



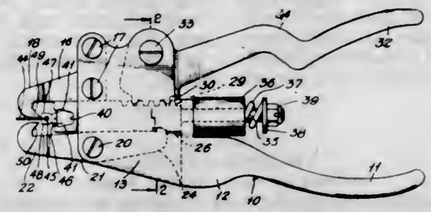
1. In a rotary machine having a rotor driven by at least one engine located at the peripheral part of said rotor and acting in a substantial tangential direction, a fuel supply device comprising the combination of at least two substantially radial pipes extending from the central part of said rotor to the peripheral part thereof, in the vicinity of said engine, means for supplying liquid fuel under pressure to said pipes through the central ends thereof, means for adjusting liquid pressure in at least one of said pipes, connecting means between said engine and the peripheral end of at least one of said pipes, valve means on said connecting means for adjusting the fuel flow therethrough, and means, at the peripheral ends of said pipes, responsive to the differential pressure of said pipes, for controlling said valve means.

2,594,789

SCOOP REMOVAL PLIERS

Louis H. Morin, Bronx, N. Y.

Application May 2, 1945, Serial No. 591,512
4 Claims. (Cl. 153—1)



1. A tool for stripping scoops from a separable fastener stringer tape comprising a member having a handle and a fixed jaw, a second jaw movably supported in said member, a plunger mounted in said member and arranged between said jaws, said plunger having a scoop engaging end which comprises a socket that is larger than said scoop, a spring normally supporting the plunger in spaced relation to said jaws, interengaging means on the movable jaw and on the plunger for maintaining said jaws open when the plunger is in said normal spaced relation to the jaws, means comprising a supplemental handle pivotally supported in said member and operatively engaging the plunger for manually moving the latter in the direction of said jaws and against the action of said spring, means on the plunger for moving the movable jaw to a closed position with respect to the fixed jaw when the plunger is moved against the action of said spring, and means on said jaws for expanding the scoop into said socket as the plunger moves the scoop toward said jaws, said spring being adapted to retract the plunger and engaged scoop upon release of said supplemental handle.

2,594,790

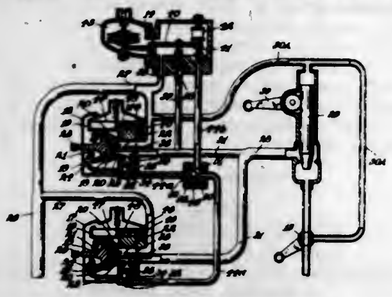
FUEL SYSTEM FOR INTERNAL-COMBUSTION ENGINES

Charles Gordon Morley, Ashbourne, England, assignor to Rolls-Royce Limited, Derby, England, a British company

Application March 1, 1948, Serial No. 12,453
In Great Britain March 3, 1947
8 Claims. (Cl. 103—11)

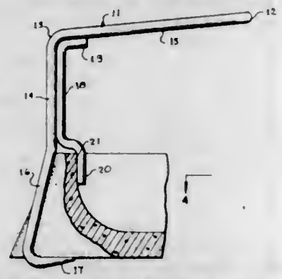
1. In a fuel system of the kind referred to a plurality of pumps delivering to a common point in the system; a hydraulic pressure system comprising a hydraulically operated regulating device for each pump, hydraulic control means which is common to the regulating devices, and ducts one from each of said regulating devices to said control means; a normally open valve in at least one of said ducts; and pressure responsive means responsive to a hydraulic pressure dif-

ference arising in said system on failure of the pressure in the regulating device from which said one of said ducts leads, and connected on responding to said pressure difference to close said valve; whereby when said pressure difference



arises said regulating device from which said one of said duct leads is isolated from said hydraulic control means, and the remainder of said regulating devices is left in connection with said hydraulic control means.

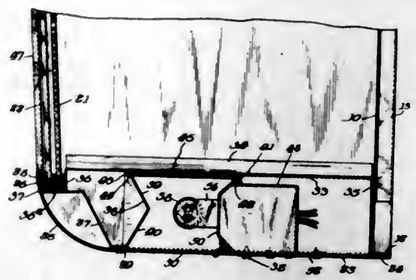
2,594,791
TROUGH LIFTER
Albert C. Motl, Alpha, Minn.
Application April 25, 1950, Serial No. 157,984
3 Claims. (Cl. 294—32)



1. In a lifting tool, a straight shank portion, a straight handle portion connected to one end of said shank portion and projecting laterally with respect to the longitudinal axis of said shank portion at right angles thereto, a pair of diverging legs, said legs having their convergent ends connected to the opposite end of said shank portion from said handle portion, said legs having their divergent ends positioned at opposite sides of said shank portion, feet on the divergent ends of said legs, said feet projecting toward the side of said shank portion at which said handle portion is located, and a finger on said shank portion extending longitudinally beyond the said opposite end of the shank portion and being offset from said shank portion at the same side thereof as said handle portion.

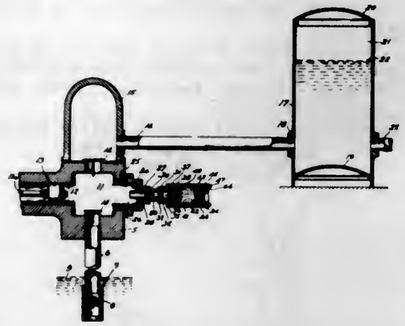
2,594,792
WALL CABINET WITH LIGHTING FIXTURE TO ILLUMINATE THE INTERIOR THEREOF AND DIRECT LIGHT DOWNWARDLY THEREFROM
Charles S. Motter, Chicago, Ill., assignor to Morton Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 2, 1948, Serial No. 243
2 Claims. (Cl. 240—4)

1. A wall cabinet comprising in combination a back wall, end members, a fixed top member, closure members at the front of the cabinet, a bottom member having an elongated opening therein, a false bottom spaced from the said bottom member having an opening therein in substantial register with the opening in the bottom member and a lighting fixture positioned between the bottom member and the false bottom adjacent the openings in each of said members, secured at its bottom portion to the said bottom member and at its top to the said false bottom and a reflector



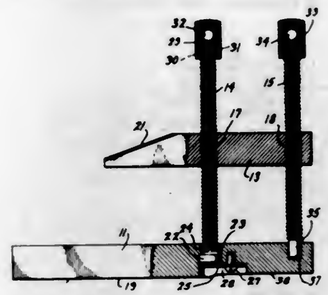
within the cabinet adjacent the said lighting fixture, and presenting two angularly disposed faces spaced from the light in the lighting fixture the faces of the reflector being angularly disposed both with respect to the light fixture and the openings in both the false bottom and the bottom of the cabinet whereby rays of light from the lighting fixture are directed upward into the cabinet and downward below the said cabinet.

2,594,793
AIR INTAKE DEVICE FOR WATER PUMPS
Richard W. Muerle, Springfield, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application April 8, 1946, Serial No. 660,554
2 Claims. (Cl. 183—49)



1. An air-intake device adapted for connection with water pumps comprising a housing having an inlet and outlet opening, and, in the order named and extending from the outlet to the inlet opening: a perforated compressible sealing-member, a centrally perforated orifice member, a micro-porous air-metering member, and a series of more grossly porous air-filtering members; said members being confined in said housing and forced against said sealing-member by an annular retaining-ring held in the inlet opening by the inwardly crimped wall of said housing.

2,594,794
PARALLEL SCREW MACHINIST'S CLAMP
Raymond A. Mull, St. Joseph Township, Berrien County, Mich.
Application June 25, 1947, Serial No. 756,965
1 Claim. (Cl. 144—300)

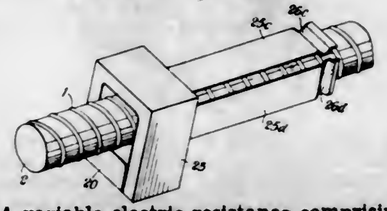


In a machinists clamp adapted to be paired with a matched companion clamp to combine the functions of clamp and parallel bar in supporting a work piece with parallel precision upon a machine table, a base bar, a clamping bar, and respective thrust and tension screws threaded through the clamping bar and having their lower ends in freely rotatable operative engagement with the base bar above the lower surface of the base bar and cooperative to effect a clamping interrelationship upon a work piece between the bars, the thrust screw being located in the heel portions of the bars and the tension screw being spaced forwardly from the thrust screw, the base bar in the work-supporting portion thereof forwardly of the tension screw being about twice as long as the portion of the base bar from the tension screw to the heel end of the base bar, said work-supporting portion having the upper and lower surfaces thereof parallel, the lower surface of the base bar from at least the axis of the tension screw and thence rearwardly under the thrust screw to the extremity of the base bar being undercut to clear the same from and avoid contact with the machine table and thus prevent thrust and tension distortions in the screw-engaged portion of the base bar in tightening the bars against a work piece from disturbing the parallel precision of the forward lower surface of the base bar relative to the machine table.

2,594,795
LUBRICATING COMPOSITION
Loren L. Neff, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application October 20, 1949, Serial No. 122,575
24 Claims. (Cl. 252—33.4)

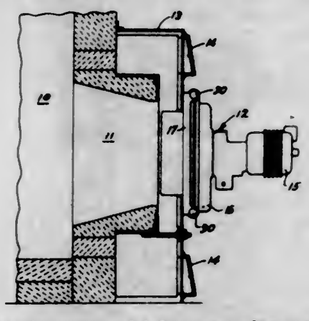
1. A mineral lubricating oil containing a small proportion, between about 0.2% and about 15% by weight, of a compound selected from the class of compounds consisting of the oil-soluble condensation products of a hydrocarbon substituted phenol with acetylene and oil-soluble metal salts of said condensation products, said condensation product being obtained by reacting said phenol with acetylene at a temperature between atmospheric temperature and about 300° C. and at a pressure between about 5 and about 30 atmospheres for a time sufficient to absorb between about 0.5 and 2 mols of acetylene per mol of phenol.

2,594,796
VARIABLE RESISTANCE
George Olah, London, England, assignor to Precision Developments Company Limited, London, England, a company of Great Britain
Application September 15, 1950, Serial No. 184,945
In Great Britain May 3, 1949
9 Claims. (Cl. 201—62)



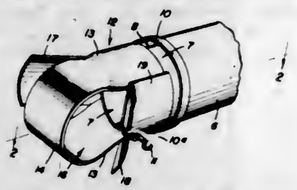
1. A variable electric resistance comprising an insulating support form, a single filamentary element of electrically resistive material applied to the form along a path extending substantially helically about the longitudinal axis of the form, a support displaceably mounted adjacent to the form, means constraining the support to move in a path disposed parallel with the said axis, means preventing rotation of the support around the said axis, electrically conductive means fixedly mounted on the said support, and a plurality of contact elements formed on the conductive means at locations which lie substantially in a common plane normal to the said axis but are angularly spaced around the said axis so that displacement of the support relative to the form will cause each contact element to engage the filamentary element at successive points along one of a number of lines parallel with the axis of the former, the effective length of each contact element being at least equal to the pitch of said helical filamentary element divided by the number of said contact elements.

2,594,797
GAS BURNER
Raymond B. Plass, Berkeley, and Edward M. Bingham, San Rafael, Calif., assignors, by mesne assignments, to Ray Oil Burner Co., a corporation of California
Application August 13, 1949, Serial No. 110,128
6 Claims. (Cl. 158—110)



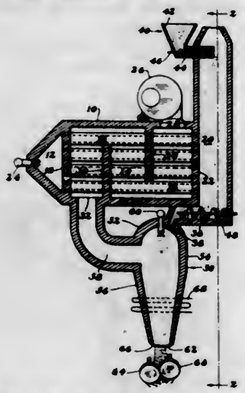
2. A gas burner which comprises a burner nozzle adapted to receive air under pressure and to discharge it in an annular pattern from within its forward end, said nozzle having a circumscribing plurality of ports for discharging air through its wall, a collar surrounding the nozzle and having slots registering with said ports to direct the air therefrom in spaced jets forwardly over the outer surface of the nozzle, and means to deliver gas in an annular pattern surrounding and concentric to the nozzle.

2,594,798
BEAN DUSTER NOZZLE
Joseph E. Poe, Clifton, N. C.
Application January 4, 1949, Serial No. 69,148
2 Claims. (Cl. 43—148)



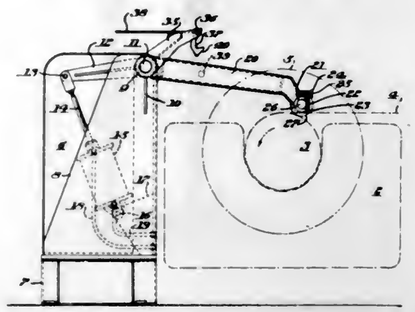
1. A duster nozzle of the class shown and described comprising a cylindrical sleeve adapted to be telescopically fitted over the discharge end of a pressured dust delivery and discharging conduit, a relatively wide U-shaped sheet material strap having limb portions and an adjoining bight portion, said bight portion being concavo-convex and constituting a baffle, the ends of the limb portions being attached at diametrically opposite points to said sleeve and co-acting with the discharge end of the latter in defining a pair of discharge openings opposed to and in alignment with each other and both at right angles to the longitudinal axis of said sleeve, means for clamping said sleeve on said conduit, and a pair of deflectors secured to said sleeve and projecting beyond said discharge end and disposed outwardly of and in alignment with said discharge openings, said deflectors having their outer ends free and slanting away from said discharge openings in divergent relation in respect to each other and constituting eye protector shields.

2,594,799
METHOD AND APPARATUS FOR THE MANUFACTURE OF MINERAL WOOL
Edward R. Powell, North Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application July 18, 1946, Serial No. 684,466
10 Claims. (Cl. 18—2.6)



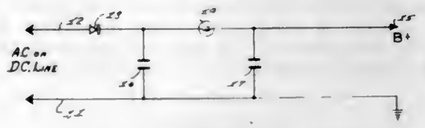
1. In an apparatus for forming fiber from discrete particles of a fusible raw material, means for subjecting the particles to heated gases to preheat the particles, means for forming a gaseous blast, flame forming means for raising the temperature of the blast above the melting point of the particles, means for discharging the particles from the preheating means into the blast to be conveyed thereby and melted therein, and a fiberizing means in the path of the blast for converting the individual particles into fiber form.

2,594,800
APPARATUS FOR THE MULTIPLE COILING OF SLIT METAL STRIPS
Neil J. Ranney, Mentor Township, Lake County, Ohio, assignor to Wean Equipment Corporation, Cleveland, Ohio, a corporation of Ohio
Application June 22, 1951, Serial No. 233,027
8 Claims. (Cl. 242—78)



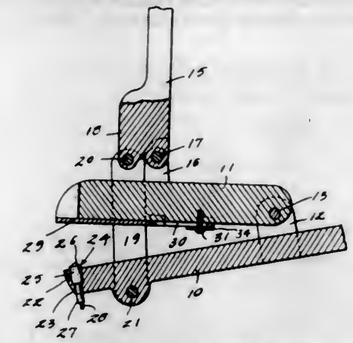
1. Apparatus for the multiple coiling of slit metal strips comprising a mandrel on which a plurality of strips are adapted to be coiled side-by-side simultaneously, means for rotating the mandrel to coil the strips thereon, a shaft mounted with its axis generally parallel to the axis of the mandrel, substantially circular coil confining and separating discs on the shaft positioned to be disposed against the sides of the coils as they are being formed to confine and separate the coils and means on the shaft engaging the discs at opposite sides thereof to predeterminedly position the discs axially of the shaft, the discs being mounted for continuous rotation through frictional engagement with the coils.

2,594,801
POWER SUI LY FOR RADIO SETS
Albert R. Rees, De Soto, Mo.
Application February 24, 1950, Serial No. 145,954
1 Claim. (Cl. 321—8)



In an A. C.–D. C. radio receiver of the transformerless type, a plate power supply circuit comprising a first line conductor and a second line conductor adapted to be connected to a house lighting line, a half-wave rectifier and a pilot lamp connected in series with said first line conductor, said rectifier being connected ahead of said lamp, a first filter condenser connected between the common junction of said rectifier and lamp and said second conductor, and a second filter condenser connected between the terminal of the lamp opposite said junction and the second line conductor, said lamp being arranged to act as a smoothing resistor between the two filter condensers, and also acting as a voltage regulator to compensate for variations in line voltage across the first and second line conductors, as well as serving to indicate that current is flowing in the power supply circuit.

2,594,802
RIVET APPLYING AND REMOVING TOOL
Joseph L. Rein, Washington, D. C.
Application December 19, 1949, Serial No. 133,769
5 Claims. (Cl. 78—46)

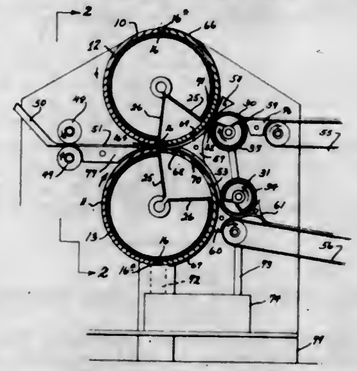


2. A rivet tool comprising a pair of pivoted jaws, a handle fixed to one of said jaws, a second handle pivoted to the other jaw forwardly of the pivotal connection between the jaws, an offset lever carried by the second handle projecting forwardly of the pivotal connection of said second handle, a pair of links pivotally secured between said lever and said one jaw, said one jaw having a socket opening through the inner face thereof and a reduced diameter opening extending outwardly from the bottom of said socket, and a reversible rivet engaging pin formed with a body engageable in said socket and with a shank engageable in said opening, said body having a rivet upsetting head on the end thereof opposite from said shank, said shank upon reversal of said pin projecting from the inner face of said one jaw and constituting a rivet removing member, said other jaw having a slot in the forward end thereof within which said shank is adapted to loosely engage when the jaws are closed, an anvil plate having an elongated slot therein positioned on the underside of said other jaw and means extending through said last mentioned slot releasably securing said anvil to said jaw to permit linear movement thereof relative to said jaw selectively to close or open said first mentioned slot.

2,594,803
METHOD OF DYEING CELLULOSIC FIBERS WITH DIFFICULTLY WATER-SOLUBLE COPPER COMPOUNDS OF DYESTUFFS USING A COPPER-FREE DYESTUFF, AN ALIPHATIC AMINE, AND A COMPLEX COPPER COMPOUND OF AN ALIPHATIC HYDROXYCARBOXYLIC ACID
Henri Riat, Walter Anderau, Jacques Wegmann, Hans Mayer, and Karl Menzi, Basel, Switzerland, assignors to Ciba Limited, Basel, Switzerland, a Swiss firm
No Drawing. Application September 29, 1949, Serial No. 118,714. In Switzerland October 8, 1948
7 Claims. (Cl. 8—42)

1. A process for dyeing undyed cellulosic textile fibers with difficultly water-soluble copper compounds of dyestuffs which comprises subjecting the said fibers to the action of a dyebath prepared essentially from a copper-free dyestuff forming the basis for the copper compound, a water soluble purely aliphatic amine and a complex copper compound of an aliphatic hydroxycarboxylic acid, the mixture of said complex copper compound and said aliphatic amine being stable in the dyebath during the dyeing process.

2,594,804
DEVICE FOR AUTOMATICALLY STRIPPING CUTOUT BOX BLANKS FROM OFFAL OR WASTE
Harold A. Ringel, New Orleans, La.
Application December 5, 1946, Serial No. 714,292
11 Claims. (Cl. 93—36)

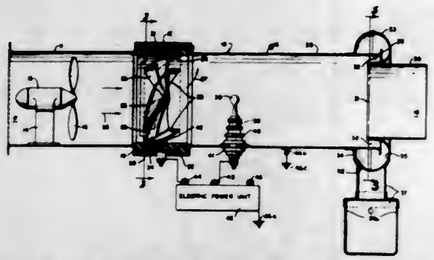


1. In a device for automatically stripping cutout box blanks from waste, a pair of hollow oppositely rotating cylinders disposed with a nip therebetween of the approximate thickness of the cut-out sheet of cardboard having the box blank and waste material, said cylinders each comprising perforated and imperforate part-cylindrical sections, make-ready patterns affixed to the perforated portions of each cylinder, the pattern on one cylinder conforming to the box blank and the pattern on the other cylinder to the waste, stationary shutters in the cylinders each comprising a part-cylindrical wall fitting closely within its respective cylinder and on which the cylinder rotates, each of said shutters having a sector shaped cut away portion the origin point of which is arranged substantially at the nip between the cylinders and extending from the origin point angularly in the direction of rotation of its respective cylinder, the cut away portion of each shutter cooperating with its respective cylinder to provide a sector shaped space in communication with a source of vacuum, and means at the terminal points of the sectors for stripping respectively the separated box blanks and waste from the perforated portions of the cylinders.

2,594,805
AIR CLEANER
William G. Rommel, Playa Del Rey, Calif., assignor to The Garrett Corporation, Airesearch Manufacturing Company division, Los Angeles, Calif., a corporation of California
Application June 26, 1945, Serial No. 601,667
6 Claims. (Cl. 183—7)

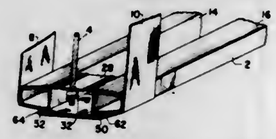
1. In a device for separating particles from a fluid stream, the combination of: an electronegatively charged cylindrical wall defining a duct through which the fluid stream is adapted to flow, said duct having an inlet and an outlet; an annulus of insulating material spaced from said outlet; vanes projecting from said annulus toward the axis of the path of flow of said fluid stream, said vanes being shaped so as to swirl the fluid as it passes toward said outlet; means for impressing a positive potential on said

vanes; a ball electrode; means extending inwardly from said wall for supporting said ball electrode near the axis of said path of flow and downstream from said vanes; means for impressing on



said ball electrode a positive electro-potential greater than the potential impressed on said vanes; and a collector disposed in said path of flow between said negatively charged wall and said outlet.

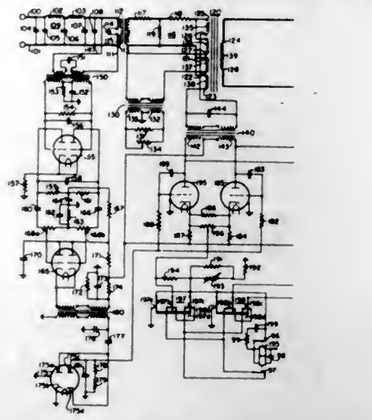
2,594,806
CORD AND TAPE CLIP FOR VENETIAN BLINDS
Harry S. Rosenbaum, Baltimore, Md.
Application September 21, 1950, Serial No. 185,922
4 Claims. (Cl. 160—173)



1. In a Venetian blind, in combination, a bottom rail, a tape having a side at each side of said rail, each tape side having an end loop, a pair of spaced pins, means attaching said pins to the lower side of said bottom rail with said pins extending parallel to the length-direction thereof and between the sides and center line of said rail, each of said pins passing through one of said end loops, each end loop extending down past an edge of said bottom rail and across the lower side of the rail to the pin on the opposite side of the center line of the rail.

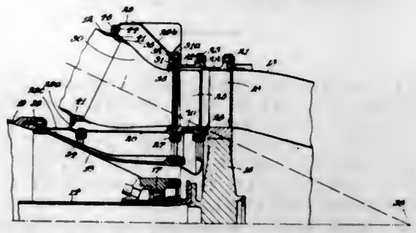
2,594,807
VOICE-OPERATED CONSTANT-LEVEL AMPLIFIER
Edmund H. Ross, Chicago, Ill., assignor to Automatic Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application May 3, 1949, Serial No. 91,157
5 Claims. (Cl. 179—171)

3. In a constant-level voice-operated signal amplifier, electric signal incoming conductors, a hybrid-winding mutual-inductance bridge transformer comprising four primary windings and a secondary winding inductively coupled, one terminal of a first and one terminal of a second of said four primary windings being connected in common to one incoming voice signal conductor and one terminal of a third and one terminal of a fourth of said four primary windings being connected in common to another incoming voice signal conductor, said first winding being connected by its other terminal through the primary winding of a first balancing impedance transformer to the other terminal of said third winding, the terminals of said first and third windings being connected to oppose the inductive effect of each other, said second winding being connected by its other terminal through the primary winding of a second balancing impedance transformer to the other terminal of said fourth winding, the terminals of said second and fourth windings being connected to oppose the inductive effect of each



other, the secondary winding of said bridge transformer being connected to the input of an electron tube voice signal amplifying circuit, means for fixing the impedance presented to the bridge by said first balancing impedance transformer, and means for automatically adjusting the impedance presented to the bridge by said second balancing impedance transformer.

2,594,808
MEANS FOR SUPPORTING THE NOZZLES OF THE COMBUSTION CHAMBERS OF INTERNAL-COMBUSTION TURBINES
Arthur Alexander Rubbra, Littleover, Derby, England, assignor to Rolls-Royce Limited, Derby, England, a British company
Application March 8, 1948, Serial No. 13,689
In Great Britain March 14, 1947
4 Claims. (Cl. 60—39.32)



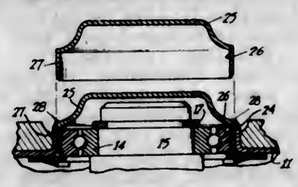
4. An axial-flow gas-turbine comprising a turbine rotor; a stator casing enclosing the rotor; a driving shaft on said turbine rotor; a plurality of combustion chambers disposed in a ring around the said shaft; an intermediate casing surrounding the shaft within the ring of combustion chambers; a ring-like casing member connected to the intermediate casing and to the stator casing to transmit structural loads therebetween, said ring-like casing member having one machined surface formed as a portion of a sphere whose centre lies on the axis of the turbine, and having formed therein a plurality of circumferentially spaced apertures, one aperture for each combustion chamber, said ring-like casing member having a second machined surface opposite to said first machined surface, said second surface being of substantially non-uniform convex contour and cooperating with said first machined surface to define areas of greater thickness of the ring-like casing member between said apertures and of relatively less thickness in the peripheral areas of the ring-like casing member, and a plurality of socket members one in each of said apertures to receive and support the outlet ends of the combustion chambers, said socket members each being secured to said casing member on the spherical side thereof by flange means formed on the socket member.

2,594,809
ARM SLING
Isador Sanders, Chicago, Ill.
Application August 12, 1949, Serial No. 109,908
4 Claims. (Cl. 128—94)



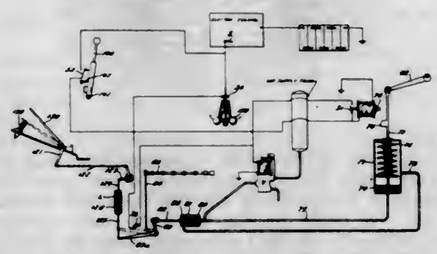
2. An arm sling comprising an arm receiving portion including a bottom wall and perpendicularly arranged rear wall and side walls all joined along their meeting edges, a shoulder strap secured at one end across the upper edge of the rear wall, longitudinally spaced snap fastening parts on the other end of the shoulder strap and cooperating snap fastener parts on the upper forward edge portion of the side walls for joining the forward end of the arm receiving portion and for receiving the shoulder strap to vary the effective length of the strap in the assembled relation, fasteners along the upper edges of the side walls for joining same through a major portion of their length after the arm has been inserted to leave an arm opening adjacent the rear wall through which the arm may extend and whereby the straps may be attached to the fasteners in the upper edge of the side wall at any place along the forearm to vary the effective length thereof when in the mounted relation, and a pocket along the bottom wall for insertion of a stiffening member.

2,594,810
METHOD OF RELINING WORN BEARING SURFACES
Erwin L. Schaub and Fredrick Hertel, Jr., Brooklyn, N. Y.
Application June 15, 1949, Serial No. 99,254
1 Claim. (Cl. 29—148)



In a method of relining the worn surface of an annular bearing gripping wall portion formed in the solid panel of an automotive fluid drive casing, the steps of cutting a circular opening in the casing concentric with and undercutting said annular wall portion to a depth limited by the bearing, removing the bearing through said opening, reaming out the internal surface of said wall to enlarge the diameter thereof, and then force-fitting the annular flange of a cap between said reamed out wall and the external surface of the replaced bearing to hold the latter firmly in place.

2,594,811
VEHICLE DRIVE CONTROL
Hans O. Schjolin, Birmingham, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application October 21, 1943, Serial No. 507,204, now Patent No. 2,435,930, dated February 10, 1948. Divided and this application August 21, 1945, Serial No. 611,789
26 Claims. (Cl. 192—.073)

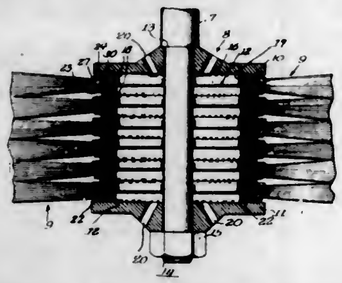


1. In power transmitting devices, a vehicle having a differential driving axle and an engine with its powershaft parallel thereto, selective variable speed drive mechanism coupling said axle and said shaft with the axial centerline of the mechanism lying at an oblique angle to the centerlines of said axle and said engine, and said mechanism including a plurality of ratio changing clutches concentric with said obliquely placed mechanism, said clutches being arranged to provide drive at different speed ratios between said engine and axle fluid pressure actuating means for said clutches, a throttle for said engine, speed responsive control means for said fluid pressure means, fluid pressure control means for said throttle effective during operation of said fluid pressure actuating means, and an accelerator pedal control mechanism for said throttle effective at advanced pedal positions to set aside the action of said speed responsive control means and cause actuation of one of said clutches with release of that one which is driving, and an arrangement of said pedal control mechanism effective to increase the resistance of the said pedal to advancing pressure prior to the advance position of the pedal which is effective to set aside the action of the speed responsive means.

2,594,812
BUFFING WHEEL
Louis M. Seelenfreund, Chicago, Ill., assignor to Action Buffs, Inc., Chicago, Ill., a corporation of Illinois
Application February 17, 1949, Serial No. 76,947
2 Claims. (Cl. 51—193)

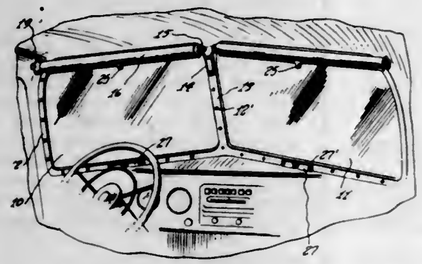
1. As a new article of manufacture, a section adapted in conjunction with like sections and a hub structure to form a buffing wheel and comprising a plurality of annular juxtapositioned fabric layers of U-shaped cross section and with gathered or plaited inner margins around a wire annulus, and a core extending around and serving to secure together the inner margins of the layers and embodying a pair of separate, spaced

apart, flat, stamped metal side rings formed of metal stock of such thickness that they are extremely rigid, fitting against and in centered relation with the inner margins of the outermost fabric layers, having flangeless inner margins, and provided on their outer margins with integral, inwardly extending, spaced apart teeth in embedded relation with the inner margins of certain of the fabric layers at locations outwards of the wire annulus, and a ring shaped clamping member consisting of a cylindrical base part fitting within the inner margins of the side rings



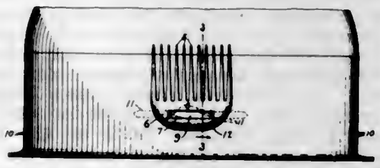
and a pair of flat side flanges projecting outwardly from the side margins of the cylindrical base part, fitting flatly against the outer surfaces of the side rings, having teethless outer margins, and arranged to hold said side rings in clamped relation with the inner margins of the fabric layers, said ring shaped clamping member being formed of metallic stock of such less thickness than the rings that the core after wear of the fabric layers may be readily dismantled by so circumferentially severing said clamping member as to release the side rings for separation from one another and subsequent re-use.

2,594,813
AUTOMOBILE WINDOW SUNVISOR SHADE
Edward G. Seibert, Scarsdale, N. Y.
Application April 23, 1949, Serial No. 89,360
1 Claim. (Cl. 160—120)



In an automobile having an automobile body portion, windshield elements and a frame securing the windshield elements to the body portion, said frame having a center portion, said frame including the center portion having spaced screwhole openings adapted to receive fastening screws, curtain rolls of transparent material respectively mounted on rollers and disposable over the respective windshield elements to cover, when extended, both the left and right windshield elements which are separated by the center portion, a common bracket element having screw openings therein alineable to match with the screw openings of the center portion of the frame whereby the frame and bracket may be secured to the center portion by common screws passing through the openings of the frame center portion, other bracket elements respectively connected to the opposite sides of the automobile body, said respective rollers having pins in one end adapted to engage with the brackets at the opposite sides of the body, said curtain rollers further having double prongs, said common center portion bracket having slots therein for receiving the prongs of the curtain rollers, each of said curtain rollers having a return spring connected with the associated prongs, whereby upon insertion of the prongs into the associated slots of the center portion bracket, the spring is anchored, each of said curtain rolls having hook fasteners thereon, said frame portion having fastening pieces adapted to receive the respective hooks, said fastener pieces having hole spacings similar to the hole spacings of the frame and adapted to be secured to the frame by the screws of the frame, said fastener pieces being adapted to receive the hook members of the respective curtain rolls and to hold the curtain rolls when extended downwardly over the windshield elements.

2,594,814
HAT ANCHOR
Doris Sigler and Frank E. Walsky, Baltimore, Md.
Application January 12, 1950, Serial No. 138,216
2 Claims. (Cl. 132—57)

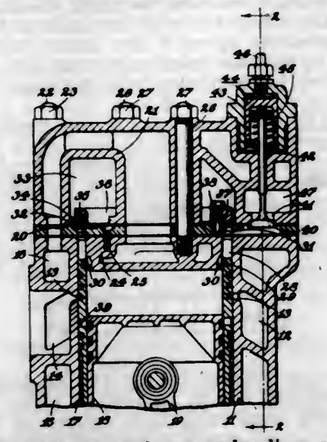


1. In a hat-anchor, a comb-like unit comprising spaced teeth to engage with the frontal hair of a user, and a base-plate with which one end of each tooth is united, said base-plate having therein a groove that extends at right angles to the length of said teeth and in open communication with openings which extend through said base-plate, said groove and openings being adapted to receive therein and therethrough an appropriate means for attaching the hat-anchor to the inner side of a hat in a proper position for said teeth to engage with said frontal hair for anchoring said hat against being blown from the head of the user.

2,594,815
UNLOADER FOR SLEEVE VALVE GAS COMPRESSORS
Christopher Broom Smith, Naphill, England, assignor to Broom and Wade Limited, High Wycombe, England, a British company
Application May 31, 1946, Serial No. 673,592
In Great Britain June 4, 1945
8 Claims. (Cl. 230—22)

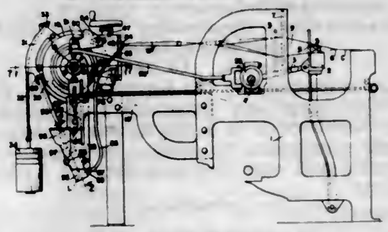
1. A compressor comprising, in combination, a cylinder, a sleeve valve reciprocable therein, a piston reciprocable within the sleeve valve, means for operating the sleeve valve and piston, a suction chamber in the form of an annular zone around the cylinder communicating with the cylinder through ports controlled by the sleeve valve, an intermediate delivery chamber communicating by ports controlled by the sleeve valve with the cylinder, an outlet, a delivery valve between the intermediate delivery chamber and

the outlet, a passage extending from the intermediate delivery chamber into communication



with atmosphere and an unloading valve arranged to open and close that passage.

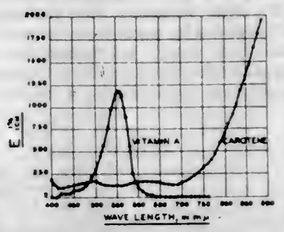
2,594,816
LUBRICATING SYSTEM FOR LOOM LETOFFS
Warren S. Snow, Worcester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application January 26, 1951, Serial No. 207,913
10 Claims. (Cl. 139—110)



1. In a loom having a warp beam turning progressively during loom operation in a direction to supply warp for the weaving operation of the loom, loom operated means periodically increasing warp tension and acting through the warp to turn said beam in said direction, weighted means effecting reverse turning of the beam, said loom operated and weighted means effecting oscillation of the beam during loom operation, gearing operatively connecting said beam and weighted means normally causing the beam and weighted means to oscillate in unison but effective incident to loom operation to reverse the weighted means relatively to the beam, a dashpot including a cylinder for oil and a piston therein operatively connected to the weighted means, and a lubricating system for said gearing connected to said cylinder and operative due to movement of the piston in said cylinder incident to oscillation of said weighted means to supply oil from the cylinder to said gearing.

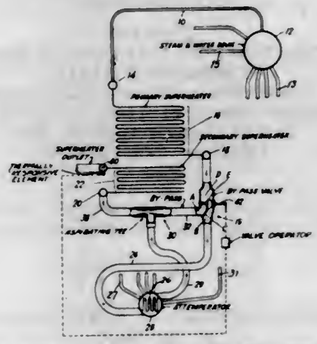
2,594,817
VITAMIN A DETERMINATION AND AGENTS THEREFOR
Albert E. Sobel, Brooklyn, N. Y.
Application July 16, 1946, Serial No. 683,967
20 Claims. (Cl. 23—230)

1. The method for the determination of vitamin A and carotene which comprises adding a chromogenic glycerol dihalo hydrin selected from the group consisting of chloro and bromo glycerol



halohydrins to a solution containing vitamin A and carotene.

2,594,818
TEMPERATURE CONTROL SYSTEM FOR A FLUID UNDER PRESSURE
Theodore S. Sprague and Bertrand N. McDonald, Aurora, Ill., assignors to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey
Application February 3, 1948, Serial No. 6,008
3 Claims. (Cl. 122—479)



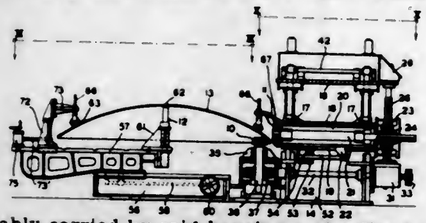
1. In a steam generator-superheater installation, a steam and water drum, a primary superheater section receiving saturated steam from the drum, a second superheater section receiving steam from the primary section through two flow paths arranged in parallel, a water drum, an indirect type of attemperator in one of said flow paths, the liquid containing portion of said attemperator being the water drum, tubular means connecting said drums into the circulatory system of the generator, the other flow path bypassing the attemperator, valve means variably proportioning the steam flows through said flow paths in response to variations in total steam temperature from a predetermined value, and an aspirator at the downstream juncture of the bypass and the other flow path utilizing the higher pressure of the bypassing steam to increase the effective steam pressure drop through the attemperator

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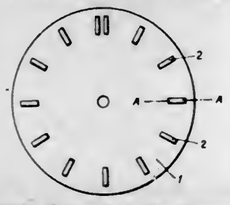
2,594,819
FLANGE ROLLING MILL
Charles E. Stenson, Hubbard, and Alden W. Kelly, Youngstown, Ohio, assignors to The Youngstown Steel Tank Company, Youngstown, Ohio, a corporation of Ohio
Application January 17, 1948, Serial No. 2,834
5 Claims. (Cl. 153—29)

1. Apparatus for flanging metal disks comprising in combination a base, upwardly disposed

members forming guide-ways extending from said base, a housing slideably mounted on said guide-ways, a horizontally disposed sleeve slideably mounted in said housing for movement along its longitudinal axis, means to move said sleeve longitudinally, a shaft journaled in said sleeve and having a projecting end, a roll secured to the projecting end of said shaft, a worm wheel rotatably carried by said housing and splined onto the opposite end of said shaft, a vertically disposed driving shaft, a worm engaging said worm wheel and splined onto said driving shaft, means to raise and lower said housing, and an anvil roll journaled for rotation about a fixed axis adjacent said first-mentioned roll but angularly related to the axis of rotation of said first-mentioned roll.



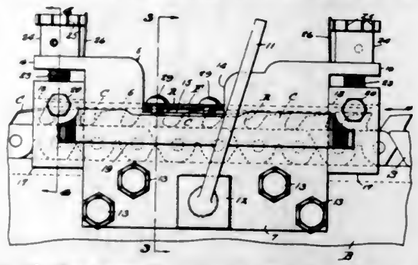
2,594,820
PROCESS FOR MANUFACTURING TIMEPIECE DIALS
Charles Stern, Geneva, Switzerland
Application March 31, 1948, Serial No. 18,249
In Switzerland April 10, 1947
3 Claims. (Cl. 204—18)



1. A process for manufacturing time-piece dials, comprising the steps of stamping indicia members in relief on a plate of light metal of the group consisting of aluminum and magnesium and alloys consisting predominantly of said metals, anodizing the plate to produce a non-conducting oxide coating thereon, abrading the upper surface of the prominent indicia members to remove the oxide coating therefrom and thereby make only the surface of said indicia members electro-conductive, and electro-plating said electro-conductive indicia members while the background of the plate is preserved by the oxide coating.

2,594,821
FILING AND JOINING GAUGE FOR SAW CHAINS
Albert F. Stone, Ernest A. Hayden, and Howard W. Parker, Callahan, Calif.
Application December 5, 1950, Serial No. 199,194
7 Claims. (Cl. 76—46)

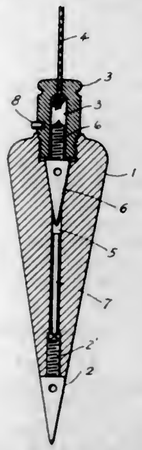
2. In a saw filing and joining gauge of the type comprising an elongated base member having a saw tooth receiving groove extending longitudinally therethrough and opening through one side thereof, said base member also having a recess extending transversely therethrough and opening through the side thereof remote from the groove, said recess communicating with the groove intermediate the ends thereof, means carried by the base member for engaging the cutter bar of a chain saw and clamping the base member on the cutter bar with the teeth of the chain saw accessible through the recess, and means carried by the base member for clamping an elongated saw tooth joining tool adjacent the bottom of the groove, means for holding a saw tooth against lateral movement while filing it comprising supporting bars carried by the base member for movement in parallel relation therewith adjacent opposite sides thereof, and float plates carried by the supporting bars and extending into the recess for engaging opposite sides of a saw tooth.



2,594,822
PREPARATION OF GREASES
Fred H. Stross, Stanley T. Abrams, and Robert J. Moore, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application April 16, 1949, Serial No. 88,042
14 Claims. (Cl. 252—25)

6. In a process for the formation of a grease, the steps comprising dispersing an alcoholate of a polyvalent metal in a lubricating oil, hydrolyzing said alcoholate to form a polyvalent metal hydroxide and removing non-metallic hydrolysis products.

2,594,823
PLUMB BOB
Lew Suverkrop, Bakersfield, Calif.
Application October 21, 1948, Serial No. 55,800
2 Claims. (Cl. 33—217)



1. A plumb bob comprising in combination, a body having a generally conical cavity extending thereinto from one end and terminating at its inner end in a substantially cylindrical portion, a tipped conical point substantially complementary to said conical cavity and detachably secured to the other end of said body by means of a threaded shank on said point extending in a direction opposite to the tip thereof, and a cap removably secured to said one end of said body and provided with a cavity extending thereinto from the inner end of said cap, said cavity in said cap being shaped to accommodate the shank of a replacement point similar to said tipped conical point and hold the same disposed longitudinally of said body with the tipped end thereof within said conical cavity within said body and free from damaging movement therein.

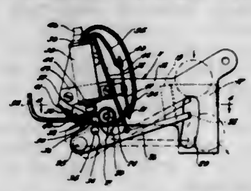
2,594,824
BUTADIENE METHYL-o-CHLOROCINNAMATE COPOLYMER
Gilbert H. Swart, Akron, Ohio, assignor to The General Tire and Rubber Company, Akron, Ohio, a corporation of Ohio
No Drawing. Application August 10, 1946, Serial No. 689,829
1 Claim. (Cl. 260—83.5)

A vulcanizable copolymerization product of a mixture comprising butadiene and a methyl-o-chlorocinnamate, said mixture comprising 45% to 95% of butadiene and 55% to 5% of said methyl-o-chlorocinnamate.

2,594,825
INTERPOLYMERS OF SELECTED POLY-(2-ALKENOXYALKYL) ESTERS OF FUMARIC ACID AND SELECTED 2-ALKENYL COMPOUNDS
Pliny O. Tawney, Passaic, N. J., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application November 13, 1947, Serial No. 785,830
5 Claims. (Cl. 260—78.5)

1. An interpolymer of di-(β-allyloxyethyl) fumarate and from 0.2 to 9 moles of allyl alcohol per mole of said fumarate.

2,594,826
COIN SWITCH
John J. Toolan and Alfred E. Reiman, Chicago, Ill., assignors, by mesne assignments, to Rock-Ola Manufacturing Corporation, Chicago, Ill., a corporation of Delaware
Application June 12, 1946, Serial No. 676,182
2 Claims. (Cl. 194—9)

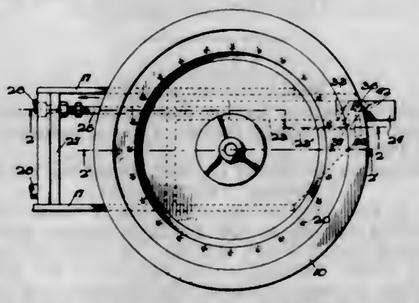


1. A coin switch, comprising a pair of relatively movable contacts, a stationary non-conducting member supporting one of said contacts and having one edge flush with an edge of said contact, a movable non-conducting member carrying the other said contact and having one edge flush with an edge of the latter and disposed in parallel relationship to said one edge of said stationary member, a supporting link pivotally mounted for movement normal to said parallel edges, a bell-crank lever pivotally mounted on said link for movement parallel thereto and having one arm supporting said movable member, a spring connected to a second arm of said lever for normally maintaining said edges of said non-conducting members in engagement with each other to prevent unauthorized engagement of said contacts with each other, the end of said second arm of said lever being operable by a coin against the action of said spring to disengage said edges of said members, and means for permitting limited relative movement between said lever and said link to enable such coin-actuated disengagement of said edges of said members, said spring being automatically operable, following such disengagement and passage of the deposited coin out of engagement with said second arm, to close said switch by actuating said lever and said link to cause and resiliently maintain engagement between said contacts.

2,594,827
PROCESS FOR ADDITION OF MONOBASIC ORGANIC ACIDS TO THE ESTERS OF MONOHYDRIC ALKYNOLS
Richard S. Towne, South Bend, Ind., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 28, 1949, Serial No. 135,522
9 Claims. (Cl. 260—491)

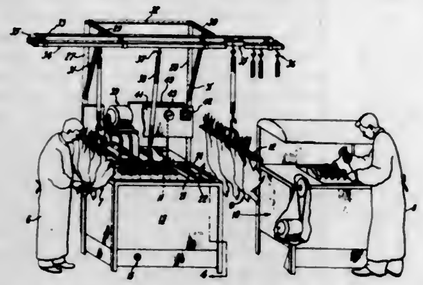
1. A process for preparing the addition product of lower alkyl monobasic organic acids to the esters of terminally unsaturated acetylenic monohydric alcohols which comprises vaporizing these two compounds and contacting them in vapor phase with a catalyst selected from the group consisting of neutral and basic salts of zinc, cadmium and mercury and continuously removing the addition product from contact with the catalyst.

2,594,828
AUTOMATIC SELF-LOCKING INDEXING HEAD
Arthur M. Tripp, Knoxville, Tenn., assignor to Robertshaw-Fulton Controls Company, a corporation of Delaware
Application June 3, 1947, Serial No. 752,235
6 Claims. (Cl. 29—50)



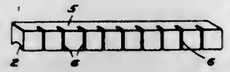
6. In a device of the character described, a rotary indexing head provided with a plurality of equally spaced indexing pins, an arm mounted for reciprocation relative to said head, said arm normally extending between two of said pins to prevent rotational movement of said head and having a transverse recess therein, and cam means movable with said arm and engageable with one of said two pins for rotating said head and moving said one pin through said recess upon reciprocation of said arm.

2,594,829
FOWL SCALDING APPARATUS
Frank C. Valenta, Burbank, Calif.
Application March 19, 1947, Serial No. 735,646
2 Claims. (Cl. 17—11.2)



1. In apparatus for treating fowls, a tank containing fluid for treating fowls preparatory to removing the feathers, a frame secured to and rising from said tank, a platform extending horizontally from the rear of the tank, an overhead track fixed horizontally to the frame above the tank, a fowl supporting hanger suspended from and movable along said track, and means mounted on said platform and operatively connected to said hanger for oscillatingly immersing fowls on said hanger in the fluid in the tank.

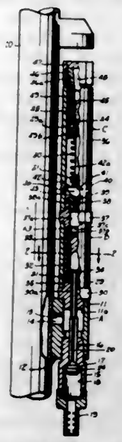
2,594,830
ROD OF DENTAL IMPRESSION MATERIAL
William Leonard Wade, Birkdale, Southport, England
Application August 8, 1949, Serial No. 109,082
In Great Britain September 28, 1948
2 Claims. (Cl. 32—19)



1. A rod of impressionable material for use in forming a curved dental bite block, the rod being of substantially rectangular section and having one face longitudinally channelled and another face, adjoining said channelled face, formed with a series of transverse slots for facilitating bending of the rod into a curved bite block.

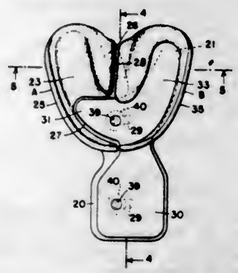
2,594,831
WELL FLOW DEVICE
Robert O. Walton, Dallas, Tex., assignor to Meria Tool Corporation, Dallas, Tex., a corporation of Texas
Application November 12, 1947, Serial No. 785,331
7 Claims. (Cl. 137—111)

1. A well flow device including, a main valve assembly having a flow passage therein with a movable main valve within the passage, said valve being adapted to be moved to an upper position to close upward flow through said passage and adapted to move to a lower position to shut off flow in a downward direction, a power bellows unit connected with the main valve assembly and including a bellows for unseating the valve from its upper position, said bellows unit being in communication with the passage of the main valve assembly, a pilot valve assembly connected with the bellows unit and including a pilot valve which controls the application of pressure to the bellows of said unit, and back check means interposed between the bellows unit and the pilot valve assembly to prevent any back pressure which may occur in the passage of the main valve assembly and in the communicating belows unit from acting upon the pilot valve, the back check means comprising a tubular coupling having a valve seat at its upper



end and receiving chamber at its lower end, with a spring-pressed ball adapted to engage the valve seat when in its upper position and arranged to move downwardly within the receiving chamber out of the line of flow through said coupling when in its lower position.

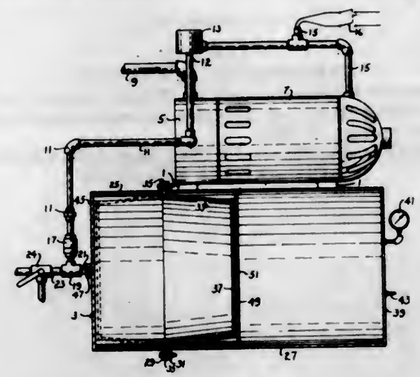
2,594,832
DENTAL IMPRESSION TRAY
Frank C. Wentzel, Philadelphia, Pa.
Application April 25, 1951, Serial No. 222,890
2 Claims. (Cl. 32—17)



1. A dental impression tray comprising two members each having a tray portion adapted to receive impression material and each having a forwardly projecting handle portion, portions of one member overlapping complemental portions of the other member, two clamping screws carried by the overlapping portion of one of the members, and the overlapping portion of the other member having transversely disposed slots through which said clamping screws extend thereby to permit a wide range of adjustment in desired directions.

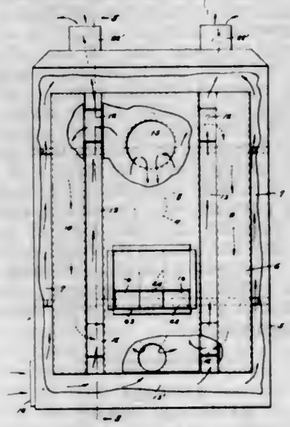
2,594,833
PUMPING SYSTEM AND STORAGE TANK
Starley M. White, Fort Wayne, Ind.
Application January 7, 1948, Serial No. 905
6 Claims. (Cl. 103—224)

1. In a water pumping system comprising a pump having a discharge pipe, a service line and an elongated tank having a port, both connected to the pipe, the improvement which comprises partitioning means sealingly mounted in the tank for movement to and from a position adjacent the port, said means defining a liquid chamber adjacent the port and a gas chamber in the tank, stop means disposed intermediate the ends of the tank for limiting the movement of said partitioning means away from said port, a motor



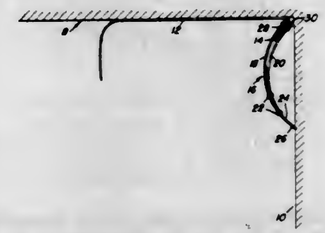
for the pump and a pressure responsive switch for controlling the motor, said switch serving to start the motor when a predetermined low pressure is reached and to stop the motor when a predetermined high pressure is reached, said stop means being so positioned that the product of the volume of the tank and the low pressure is substantially equal to the product of the gas chamber volume, when the partitioning means rests on the stop, and the high pressure.

2,594,834
FUEL BURNING HOT AIR HEATING UNIT
Edward G. Wilson, Iowa Falls, Iowa
Application November 30, 1948, Serial No. 62,701
1 Claim. (Cl. 126—116)



In a hot air heater, an outer casing, a heating unit assembly disposed within the outer casing in spaced relation with the walls of the outer casing, providing passageways completely surrounding the heating unit assembly, said heating unit assembly embodying a central rectangular combustion shell, rectangular side radiator shells and a rear rectangular radiator shell, said rear radiator shell having a lateral width equal to the total lateral widths of the heating unit assembly, said side radiator shells being arranged in spaced relation with the central rectangular combustion shell providing vertical air heating passageways, upper and lower pairs of pipes connecting the central rectangular combustion shell and side radiator shells, upper and lower pipes connecting the central combustion shell with the rear radiator shell, means forming a burner chamber adjacent the lower end of said combustion shell, said means comprising a rectangular box having an open top, a bottom, and an open ended duct extending upwardly from said bottom and in spaced relation to the walls of said box to provide a burner chamber therein, a burner in said chamber mounted within the central combustion shell above the bottom of said chamber and from which products of combustion pass upwardly into the combustion shell, a flue through which products of combustion pass from the rear radiator shell, said outer casing having an air inlet opening admitting air to the heater at the base thereof, and pipes through which hot air passes from the heater.

2,594,835
WALLPAPER HOLDER
Archie L. Wornstaff, Portland, Oreg., assignor of twenty-four per cent to James R. Wornstaff, Portland, Oreg.
Application December 15, 1950, Serial No. 200,991
5 Claims. (Cl. 216—4)

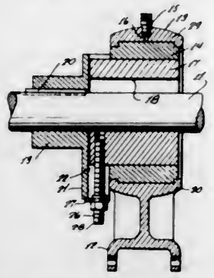


1. A mechanical aid to assist a paperhanger in hanging a strip of wallpaper comprising portable holding means embodying a pair of longitudinally bowed resilient limb members operatively connected with each other at corresponding portions, one of said limbs being provided with a pointed anchoring prong adapted to be embedded in a wall surface, spaced parallel jaws secured to corresponding end portions of said limbs and disposed at right angles to the longitudinal axes of the limb members.

2,594,836
ADJUSTABLE THROW ECCENTRIC
Albert George Wunderlich and James Bonato, Telluride, Colo.
Application September 16, 1949, Serial No. 116,122
4 Claims. (Cl. 74—571)

1. An eccentric drive comprising a drive shaft, a first hub member secured to said shaft, said first hub member being formed with a dovetailed channel extending normal to said shaft the center line of said channel intersecting the axis of the shaft, a second hub member loosely receiving said shaft, a dovetailed lug on said second hub member slidably received in said channel, a plate element carried by said first hub member and overlying an end of said channel, a screw rotat-

ably journaled in said plate element and extending radially inwardly, said screw being fixed against axial movement and said screw being threadedly engaged with said second hub mem-



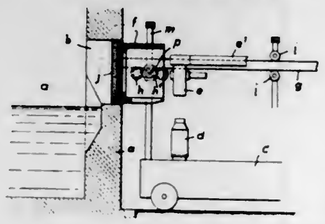
ber, a driven member rotatably carried on said second hub member, and releasable means carried by the first hub member and clampingly engaging said lug.

2,594,837

GUIDE ROLLER DEVICE FOR PROTECTIVE CAPS FOR THE OUTLET OPENINGS OF GLASS-MELTING FURNACES

Alphonse Wyss, Bottmingen, near Basel, Switzerland

Application September 18, 1946, Serial No. 697,741
In Switzerland September 16, 1942
2 Claims. (Cl. 49—14)



1. A guide roller device for a screening and protective cap for the outlet opening of a glass-melting furnace, which cap is provided with a pair of horizontally spaced, elongated bars secured thereto at substantially the same level and extending exteriorly of said furnace, said guide roller device comprising a plurality of pairs of bar-supporting rollers, each pair being horizontally spaced from the other pair at substantially the same level and being arranged to coact with the lower surface of one of said bars, whereby a reciprocating suction device may move between said pairs of rollers and said bars, a horizontal double-armed lever for supporting each pair of rollers, and a vertically adjustable mounting for each said lever, said mounting comprising a horizontal pivot about which said lever is arranged to oscillate.

2,594,838

MOLDED TUBULAR BODY

George Alexander, Coshocton, and Richard T. Walsh, West Lafayette, Ohio, assignors to General Electric Company, a corporation of New York

Application March 4, 1947, Serial No. 732,328
1 Claim. (Cl. 138—76)

A rectangular shaped molded hollow tubular rigid body composed of a single piece of material comprising a plurality of layers of a continuous web of a glass fabric bonded together and impregnated with a thermoset synthetic resin wherein the warp and woof strands of said tube are each



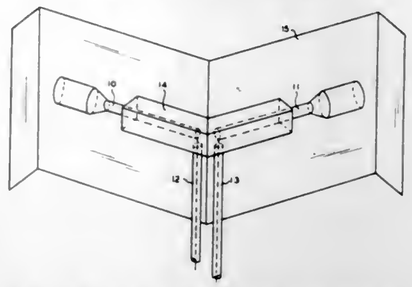
at an angle of from 40° to 50° to the longitudinal axis of said tube.

2,594,839

ELECTRICAL APPARATUS

Andrew Alford, Cambridge, Mass., assignor to the United States of America as represented by the Secretary of War

Application March 29, 1946, Serial No. 657,953
6 Claims. (Cl. 250—33.65)



1. A broad band horizontally polarized antenna including a center fed dipole having a length of the order of one-fourth of a wavelength corresponding to the lowest operating frequency with the outer extremities of said dipole enlarged and with said dipole bent to form a V whose included angle is of the order of 120 degrees, said dipole comprising a pair of elements each having inner and outer ends, a metallic sleeve with a rectangular cross-section bent to form a V concentrically enclosing the central portion of said dipole, a feed line comprising a first coaxial transmission cable and a second coaxial transmission cable with the inner conductor of said first cable inserted through a hole in said sleeve and connected to one end of one element of said dipole and with the inner conductor of said second cable inserted through a hole in said sleeve and connected to one end of the other element of said dipole and with the outer conductors of said cables terminated in contact with said sleeve and a sheet reflector bent to form a W oriented behind said dipole so that the inner legs of said reflector are parallel with respective elements of said dipole whereby the direction of maximum response of said antenna is in the direction of the apex of the V formed by said sleeve and whereby the response pattern of said antenna is substantially constant in shape over a wide range of operating frequencies.

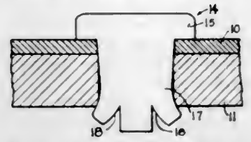
2,594,840

RIVETED JOINT

Kenneth C. Allison, Crystal Lake, Ill., assignor to Grigsby-Allison Company, Inc., Arlington Heights, Ill., a corporation of Illinois

Application April 29, 1946, Serial No. 665,761
3 Claims. (Cl. 78—54)

1. An assembly of the type comprising a pair of juxtaposed members and a securing device having a shank portion of a length greater than the aggregate thickness of said members adapted to be projected through an opening in each member to connect said members against separation axially of said openings by means of a head at one end of said shank and a laterally spread portion at the other end, said shank having two opposed flat faces of gradually diminishing transverse dimension in a direction away from its head, said transverse dimension being substantially greater than the dimension between said faces, said opening in each of said members being of non-circular contour and presenting outwardly convergent margins at opposite sides thereof coincident with similar margins of the opening in the other member with which margins the shank has wedging engagement,



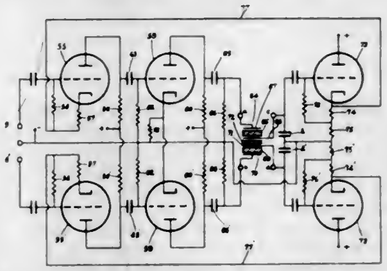
along edges of its said faces between and forming continuations of the edges which define the greatest and smallest transverse dimensions of said faces, to locate said members and said securing device in predetermined fixed position longitudinally and laterally of the base line toward which said margins converge, preparatory to intersection of said margins of the opening in the member nearest the head of the shank incident to seating said head against the surface of said latter member about said latter opening and preparatory to intersection of said margins of the opening in the member farthest from the head of the shank incident to lateral spreading of said edges defining the smallest transverse dimension of said faces of the shank.

2,594,841

PIEZOELECTRIC TRANSDUCER WITH PUSH-PULL AND FEEDBACK CIRCUIT

John P. Arndt, Jr., Euclid, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application August 11, 1945, Serial No. 610,361
2 Claims. (Cl. 179—100.4)



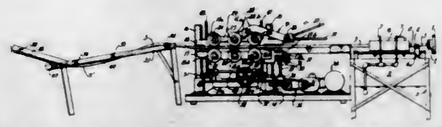
1. In combination, a piezoelectric transducer unit comprising two piezoelectric portions each provided with a pair of electrodes and adapted to vibrate in response to alternating potentials applied to its electrodes, said piezoelectric portions being mechanically coupled to each other for substantially equal and aiding mechanical activities when the two electroded portions are electrically connected in series; condenser means; a push-pull amplifier for supplying signal currents to the piezoelectric unit in response to signal voltages applied to the amplifier and having an input circuit and an output circuit including in series sequence one of the piezoelectric portions, said condenser means and the other piezoelectric portions; and a feedback path between the condenser means and the input circuit for delivering to the input circuit a degenerative feedback voltage.

2,594,842

METHOD AND APPARATUS FOR PRODUCING PLASTIC TUBING

James Bailey, West Hartford, Conn., assignor to Plax Corporation, Hartford, Conn., a corporation of Delaware

Application February 6, 1948, Serial No. 6,648
4 Claims. (Cl. 18—14)



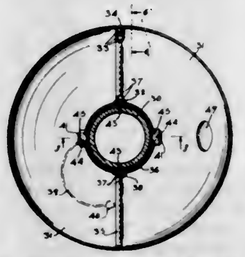
2. Apparatus for forming tubing of thermoplastic material including a nozzle, an extruder for continuously forcing the material in a heated, plastic condition through the nozzle in the form of tubing, means for cooling and setting said tubing in a non-plastic shape-sustaining condition, means for introducing a fluid under pressure into said tubing to prevent collapse of the tubing, a pair of pulling rolls for gripping and drawing the set tubing away from the die, means down stream of and cooperating with the pulling rolls for stressing successive portions of the tubing so as to form and maintain a U-bend therein, and a liquid dam located in said U-bend to form an air-tight seal for the pressure medium.

2,594,843

SPRING CANOPY FOR PIPES

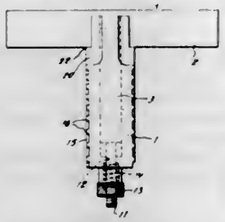
Irving Barfus, Brooklyn, N. Y.

Application February 23, 1949, Serial No. 77,770
3 Claims. (Cl. 126—317)



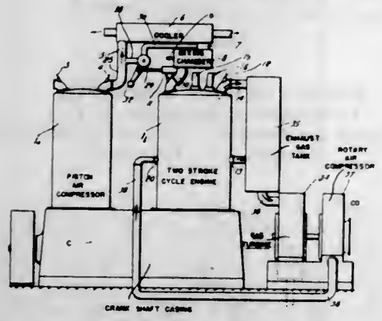
1. A canopy for engagement about a riser pipe in contact with a ceiling surface surrounding the riser pipe, comprising a hollow cup-shaped shell formed at its bottom with an opening through which the riser pipe is adapted to extend, said shell being formed of openable halves pivotally connected together, a ring adapted to be removably engaged about the pipe within said shell, rod-like members depending from said ring and having reduced bottom threaded portions passing through complementary holes formed in said shell, nuts threaded onto the projecting ends of said reduced threaded portions connecting said shell to said rod-like members, and a removable contraction spring adapted to be engaged about the riser pipe and connected to said ring and said reduced threaded portions for holding said shell in an elevated position on the riser pipe in engagement with the ceiling surface.

2,594,844
PRECISION MEASURING TOOL
Paul John Bauerle, Flushing, N. Y.
Application February 3, 1950, Serial No. 142,303
5 Claims. (Cl. 33—112)



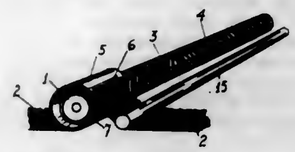
1. A precision-type instrument of the class described including a blade, a blade holder and means for locking said blade in said holder, said blade holder having a plurality of grooves in plural sides of said holder, plural lands formed thereby being of equal height to provide a flat plane, said holder further having plural recesses therein extending rearwardly to terminate adjacent the underside of said blade.

2,594,845
TWO-STROKE CYCLE INTERNAL-COMBUSTION ENGINE
Werner Baumann, Paris, France
Application March 22, 1946, Serial No. 656,376
In France June 4, 1945
5 Claims. (Cl. 60—13)



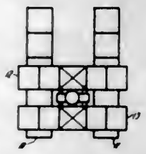
1. A two stroke cycle internal combustion engine comprising a cylinder having inlet and exhaust ports disposed at the upper part thereof, means for controlling the opening of said ports, a piston in said cylinder and means for actuating said controlling means in timed relation with the movement of said piston, said controlling means causing said exhaust port to close and said inlet port to open when said piston has covered at least two-thirds of its compression stroke, said control means also causing said inlet port to close shortly after it has opened and before said piston has covered four-fifths of its compression stroke, a source of cooled compressed air and a source of fluid fuel, means to connect the source of cooled compressed air with the said inlet port, a supplementary inlet port for scavenging air and a supplementary exhaust port for burnt gases and scavenging air, said supplementary ports being disposed in a combustion chamber near the lowermost position of the piston in said chamber and being opened and closed by said piston, and means for carburizing the fuel and causing it to be ignited.

2,594,846
MEANS FOR STRETCHING THE CLOTH WEB IN WEFT DIRECTION IN LOOMS
Hermann Bechter, Zurich, Switzerland
Application February 12, 1947, Serial No. 728,102
In Switzerland February 16, 1946
5 Claims. (Cl. 139—291)



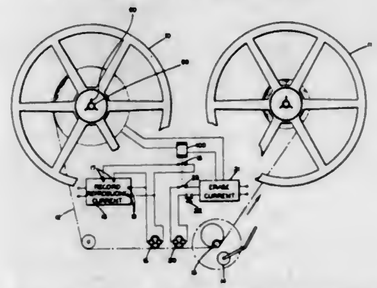
1. In a loom, in combination, a stretcher roller arranged in the path of the woven fabric, oppositely arranged right- and left-hand threads arranged on said stretcher roller and extending from the center of said stretcher roller to the opposite ends thereof, each of said threads having a pitch increasing from the center of said stretcher roller towards the ends thereof; slotted supports arranged at the end of said stretcher roller, respectively, and engaged by said stretcher roller; resilient means arranged for cooperation with said stretcher roller for displacing same in the slots of said supports in order to adjust the tension of the fabric; a guide arranged parallel to said stretcher roller; and grooves on at least part of the circumference of said guide.

2,594,847
DRILLING RIG SUBSTRUCTURE
William F. Bates, South Pasadena, James N. Gregory, La Habra, and Charles S. Penfield, Bakersfield, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application December 29, 1947, Serial No. 794,370
2 Claims. (Cl. 255—19)



1. A rig substructure for use at the head of a well bore, comprising two portable prefabricated base truss units of substantial length and quadrangular cross-section, said base truss units being positioned on the ground parallel to each other on either side of the well bore, two portable prefabricated floor truss units of a length lesser than that of the base units and of quadrangular cross-section, said floor truss units being disposed parallel to each other on top of said base units and at right angles thereto on each side of the bore hole, substantial lengths of said underlying base truss units extending beyond said floor truss units to form a loading bay therebetween for installing drilling equipment on said base truss units, removable clamping means holding said pre-formed base and floor units together, flooring means on said floor truss units forming a first platform, flooring means on top of the extending portions of the base truss units forming a second platform, a rotary table supported on said first platform, and drawworks supported on said second platform.

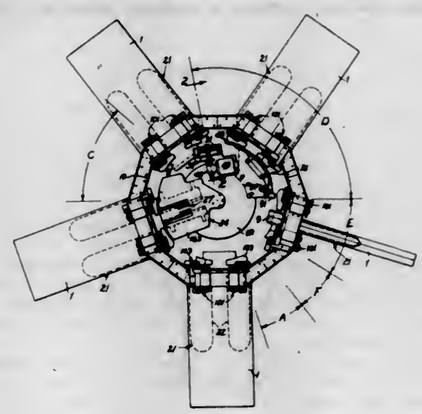
2,594,848
MAGNETIC REPRODUCING DEVICE WITH MEANS TO PREVENT ACCIDENTAL ERASE OF RECORD MEDIUM
Semi Joseph Begun, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application December 12, 1950, Serial No. 200,346
6 Claims. (Cl. 179—100.2)



1. In a magnetic recording-reproducing device: a pair of spaced-apart reels one of which has a hub opening; a recording medium wound on said reels; an energizable transducer head for altering the record on said record member when said transducer head is energized; circuit means including a switch connected to said transducer head for selectively energizing said head in accordance with the position of said switch; means for driving said reels including a hollow shaft upon which said reel having said hub opening is mounted; a movable rod extending up through said hollow shaft and terminating adjacent the hub opening in said reel, said rod upon moving actuating said switch; and actuating means connected to the hub of said reel for closing said hub opening to cause said movable rod to move when said reel is placed on said hollow shaft to actuate said switch.

2,594,849
APPARATUS FOR MANUFACTURING VALVE BAGS
Daniel Belcher, Minneapolis, Minn., Russell J. Williams, Richmond Heights, Mo., and James E. Voege, Alton, Ill., assignors to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application April 15, 1949, Serial No. 87,762
5 Claims. (Cl. 93—8)

1. Apparatus for manufacturing valve bags comprising a conveyor including a bag-spreading device adapted to receive and carry a bag body having a valve notch and to spread flat the valve notch corner thereof, said conveyor being adapted to move a spread bag body carried by said device in a predetermined path, means for delivering a valve sleeve to the spread valve notch corner of a spread bag body carried by said device as it travels through a portion of said path with the sleeve projecting beyond the valve notch, means for applying adhesive to the side of the projecting portion of the sleeve which faces the bag body as the sleeve travels with the bag body through a successive portion of said path, means for bending the valve notch and the portion of the sleeve extending over the valve notch and projecting beyond the valve notch to extend generally perpendicular to the plane of the spread bag body as the sleeve travels with the bag body through a further successive portion of said path, and means for folding the projecting end of the sleeve around the edge of the valve notch to cause the sleeve to become adhered to the inside face of the valve notch as the sleeve and bag body



travel through a further successive portion of said path.

2,594,850
PLUG CONNECTOR
George B. Benander, Oaklawn, R. I., assignor, by mesne assignments, to General Electric Company, a corporation of New York
Application December 16, 1947, Serial No. 792,037
8 Claims. (Cl. 173—361)

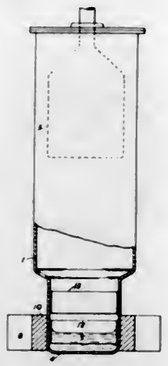


2. A plug connector comprising a core, walls defining a T-shaped recess in a face of the core, the arms of which extend across such face, said recess being adapted to receive an electric cord end, walls defining shoulders on sides of the core, contact blades the inner ends of which have parts in interlocking engagement with said shoulders to position the blades on the core, the inner ends of the blades and the adjacent core being adapted to clamp bared conductor ends, a housing in which the core is positioned with a sliding fit, and means including releasable interlocking parts between the blades and the housing to hold the plug assembled.

2,594,851
METAL VAPOR ELECTRIC DISCHARGE APPARATUS
Hans Carl Bertele, Purley, England
Application April 12, 1948, Serial No. 20,424
In Great Britain April 17, 1947
15 Claims. (Cl. 313—29)

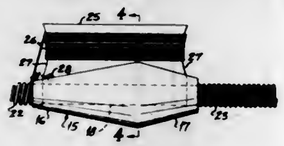
1. In vapour electric discharge apparatus the combination with an envelope containing an anode, of a cathode formed by a pool of vaporisable liquid, a container for such pool constituting a lower part of said envelope and formed at the upper peripheral edge of said pool with an arc-fix-

ing surface of a metal of the group of arc-resisting metals constituted by molybdenum and tungsten, which liquid bathes the metal arc-resisting surface to form a concave meniscus edge



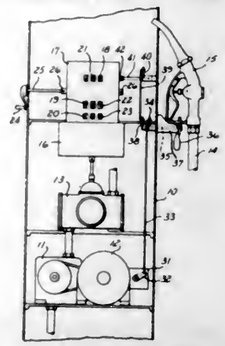
thereat, and arc heat dissipating means external to the pool container in direct high thermal conductivity metallic connection with the arc-fixing surface.

2,594,852
TACKLE RETRIEVER
Veles P. Bivens, Lawndale, N. C.
Application December 3, 1949, Serial No. 130,937
1 Claim. (Cl. 43—17.2)



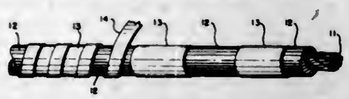
A fishing tackle retriever for retrieving tackle on a fishing line that has become hung on an obstruction comprising an elongated metallic body provided with flat ends and having a longitudinally extending bore therein extending the length of the body member and having a longitudinally and radially extending slot communicating with said bore and the exterior of the body, a pair of coiled compression springs having one of their ends secured to each of the flat ends of the body and having their interior diameters coinciding with the longitudinal axis of the longitudinally extending bore, the spring on the leading end of the body being much longer than the spring on the trailing end of the body and being a compression spring, a retrieving line secured to the body, a substantially spring steel planar member normally bowed out of a straight line and adapted to fit in the longitudinally extending slot and adapted to have the retrieving line wound therearound, said retrieving line also being secured to the substantially planar member, whereby the substantially planar member may be removed from the longitudinally extending slot and the retriever may be placed on a fishing line with the fishing line extending through the longitudinally extending bore and the coiled springs so that the retriever may be lowered on the fishing line by the retrieving line to where the spring on the leading end of the body will engage the tackle or the obstruction several successive times due to the momentum of the body to free the tackle from the obstruction.

2,594,853
INTERLOCK MECHANISM FOR LIQUID DISPENSING APPARATUS
Harvey N. Bliss, Windsor, Conn., assignor to Veeder-Root Incorporated, Hartford, Conn., a corporation of Connecticut
Application June 2, 1950, Serial No. 165,842
9 Claims. (Cl. 222—34)



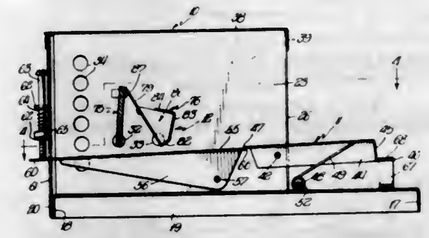
1. An interlock mechanism for a liquid dispensing apparatus of the type having a power control switch and a register provided with resetting means, said mechanism comprising a first movable member, means connecting the member to the power control switch whereby the member is moved to a first position when the switch is open and to a second position when the switch is closed; a second movable member, means for moving the second movable member to a first position at completion of a resetting operation and to a second position during resetting, means for mounting said movable members whereby movement of either to its said second position will obstruct movement of the other to its second position, a retractable member pivotally mounted on said first movable member adjacent the resetting means and normally engageable with the second movable member when the latter is in its said first position to prevent movement of the first movable member to its said second position, means for latching the retractable member in retracted position, means for pivoting the retractable member to latching position at the start of a resetting operation, and means for unlatching the latching means when the power control switch is closed.

2,594,854
AERIAL CABLE WITH EXTERNAL RADIO SIGNAL REFLECTION CORRECTION
Felix Bloch, Palo Alto, Calif., assignor to the United States of America as represented by the Secretary of War
Application December 10, 1945, Serial No. 634,091
2 Claims. (Cl. 178—44)



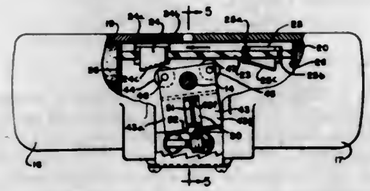
1. In an aerial cable for use in a zone of transmission of radio object-locating signals, an inner cable constructed of a continuous conducting part, an insulating material at least partially covering said inner cable, sleeves constructed of a conducting material overlying said insulating material, said sleeves being spaced at intervals along the length of said cable, and armor material spirally wound around said insulating material and said sleeves with interstitial space between the convolutions, the sleeve lengths and spaces between the sleeves being proportioned in a definite relation to a given band of external radio signal frequencies incident externally on the cable.

2,594,855
ANIMAL TRAP
Vivian C. Bloodgood, Cass County, Mich.
Application October 17, 1950, Serial No. 190,604
7 Claims. (Cl. 43—61)



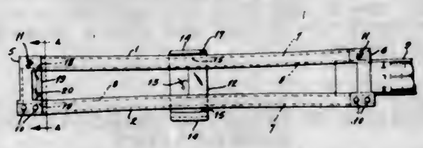
1. An animal trap of the class described, comprising, a collapsible cage consisting of a base member, two vertical side wall members slidingly interjoined, along their lower edges, with the lateral edges of said base and removably locked thereto by means of bayonet connectors, a rear end wall, having its lateral edges slidingly interengaged with the rear edges of said side walls and having its lower edge slidingly interengaged with the rearward edge of said base, and a top wall member having its lateral edges slidingly interjoined with the upper edges of said side walls and slidingly overlapping the upper edge of said rear wall, all of said wall members being readily disassociated for collapsing said cage; a spring actuated trap door pivotally mounted between said side wall members for closing over the entry end of said cage, a sear formed on said trap door, a trip plate, pivotally connected to said sidewall members, adjacent said base member for arcuate movement and selectively engageable at one end with said sear for holding said door in an open position, and a weighted striker bar, pivotally mounted between said sidewall members, above said trip plate, for striking said plate upon falling arcuately downward thereby to release said trip plate and sear and permit closure of said door.

2,594,856
FLUID MOTOR
Fred A. Bluhm, Michigan City, Ind., assignor, by mesne assignments, to Air Appliances Corporation, La Porte, Ind., a corporation of Indiana
Application June 17, 1947, Serial No. 755,265
2 Claims. (Cl. 121—164)



1. In a fluid motor, a piston assembly comprising two axially spaced pistons, a cylinder block having a cylindrical bore in which said piston assembly is reciprocable, a shaft extending transversely of said cylinder block and operatively connected with said piston assembly whereby said shaft is reciprocable rotationally in response to reciprocation of said piston assembly, a bar interconnecting said pistons and extending parallel to the axis of said cylindrical bore, a pair of dogs secured to said bar in spaced relation lengthwise thereof, the positions of said dogs lengthwise of said bar being individually adjustable manually, a pair of poppet valves operative individually to admit fluid-under-pressure into said cylinder bore at opposite ends of said piston assembly, respectively, each of said valves being operative, when closed, to release the pressure in its associated end of said cylinder bore, and valve control gear for operating said valves alternately in timed relation with the reciprocatory movements of said piston assembly whereby automatically to reverse the direction of movement of said piston assembly each time the latter reaches either end of a predetermined stroke, said valve control gear including a rocker and valve actuator, said rocker having a pivotal center about which it is reciprocable rotationally, said dogs being operative to engage said rocker alternately to tilt the same in opposite directions about its pivotal center, said valve actuator being pivotally mounted and operative to actuate said valves alternately in response to arcuate movements thereof in opposite directions, said valve actuator having two convergent surfaces meeting at an apex, and means carried by said rocker for operating said valve actuator, said means including a roller which is spring-pressed against said actuator and which is movable by and with said rocker in such manner that it rolls along said convergent surfaces and across said apex each time said rocker is tilted by one of said dogs, the pressure of said roller against said actuator being so directed that when said roller traverses said apex and thus passes from one of said convergent surfaces to the other, said actuator is rotated about its pivotal center, abruptly, from one extreme position to another.

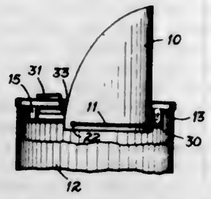
2,594,857
SLIDE RULE
Wilfred J. Boos, Clayton, Mo., assignor to Acu-Rule Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application January 5, 1949, Serial No. 69,278
2 Claims. (Cl. 235—70)



1. In a slide rule of the character described, having a pair of parallel spaced side bars, the outer edge of each of said bars having a groove extending lengthwise thereof, end brackets connecting said side bars and supporting the same in spaced relation, a slide movable between said side bars, and a cursor provided at its opposite sides with tongues extending toward each other and receivable within the grooves of said side bars to retain said cursor thereon, the improvement which comprises said side bars being flexible for limited bowing toward each other when the slide is removed from therebetween, and one of said

tongues extending into its groove for a distance no greater than the relative movement between said side bars when bowed toward each other whereby the cursor is removable from the side bars when the slide is withdrawn from between the side bars, but said cursor is secure against removal when the slide is between the side bars.

2,594,858
DETACHABLE POURING SPOUT
Arthur R. Bowman, Dayton, Ohio
Application March 6, 1950, Serial No. 147,878
4 Claims. (Cl. 222—570)



1. A removable pouring spout for a container having an annular rim within the upper end thereof, comprising a blank of flexible sheet material adapted to be cylindrically curved for insertion within said rim to form a spout, a resilient wire adapted to engage within said blank for yieldably holding the same within said rim, said blank having a hole therethrough adjacent each end thereof for removably receiving the ends of said wire, said ends of said wire extending upwardly with respect to said holes to engage said rim, said wire having a forwardly projecting loop adjacent the center thereof adapted to extend through said blank to engage below said rim for indexing said blank with respect to said rim, said blank having a slit therethrough for removably receiving said loop following insertion of said ends of said wire through said holes to retain said blank and said wire in assembled relation, said upwardly projecting end portions of said wire including inwardly extending loops for gripping the inner edge of said rim to retain said wire and blank against upward or downward movement with respect to said rim, and said wire and said blank being proportioned for ready connection and disconnection by engagement and disengagement respectively of said wire in said holes and said slit to provide for ready use of said wire with a plurality of said blanks.

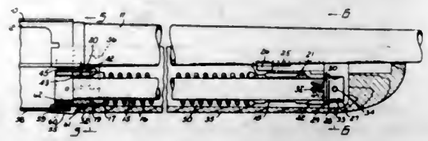
2,594,859
METHOD OF DELAYING COAGULATION OF RUBBER LATEX
Robert E. Boyd, George H. McFadden, and Bailey Bennett, Columbus, Ohio, assignors, by mesne assignments, to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application January 5, 1950, Serial No. 137,929
17 Claims. (Cl. 260—723)

1. The method of delaying coagulation of normally alkaline foamed latex material having incorporated therein a soluble monovalent alkali fluotitanate salt as a gelling agent, that step of adding a monovalent alkali hydroxide to the foam in quantities not in excess of chemically equivalent amounts of the fluotitanate salt used whereby the action of fluotitanate salt is delayed.

2,594,860
PREPARATION OF PHENYLTRICHLOROSILANE
Stuart D. Brewer, Burnt Hills, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application May 2, 1951, Serial No. 224,255
2 Claims. (Cl. 260—448.2)

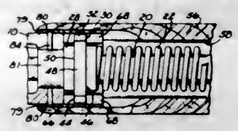
1. The process for making phenyltrichlorosilane which comprises effecting reaction in the presence of a boron halide catalyst of a reactive mixture of ingredients consisting essentially of silicon tetrachloride, dichlorosilane, and benzene.

2,594,861
TAKE-DOWN ARRANGEMENT FOR FIREARMS
Val A. Browning, Ogden, Utah
Application April 10, 1948, Serial No. 20,262
8 Claims. (Cl. 42—75)



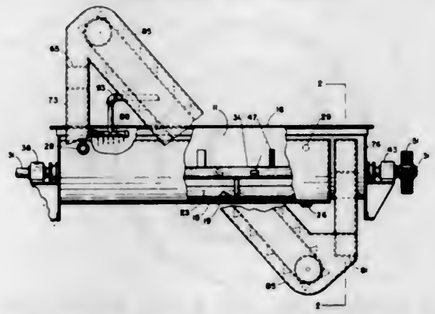
6. In a firearm of the type having a receiver, a forwardly extending barrel guide, a barrel slidably engaged at its rear end on the receiver and disengageable therefrom by longitudinal movement forwardly from the receiver, and a slidable support engaging the guide and the barrel at an intermediate portion of the barrel forwardly of the receiver when the barrel is engaged on the receiver and disengageable when the barrel is moved longitudinally forward therefrom, improved take-down mechanism comprising releasable latch means mounted adjacent the rear end of the guide engaging the barrel for preventing longitudinal movement thereof forwardly of the receiver, a forearm housing said latch means and the guide, and means mounting said forearm on the receiver for limited movement relative thereto between a normal position where the forearm is closely adjacent the barrel and a position where the forearm is spaced from the barrel sufficiently to permit the barrel to be detached in a forward direction from the receiver.

2,594,862
TAKE-DOWN ARRANGEMENT FOR FIREARMS
Val A. Browning, Ogden, Utah
Application August 27, 1949, Serial No. 112,809
5 Claims. (Cl. 42—75)



1. In a firearm, a section having a receiver, a barrel slidably engaged at its rear end on the receiver and disengageable therefrom by longitudinal movement forwardly from the receiver, releasable latch means for preventing longitudinal disengageable movement of the barrel forwardly of the receiver, a forearm, means for mounting said forearm on said section for limited movement from a normal position closely adjacent the barrel to a position somewhat removed therefrom, interengaging means between said forearm and releasable latch means for operating the latter upon said limited movement of the forearm, a manually operable catch for holding said forearm in said normal position, and holding means arranged and operable normally to hold said forearm in said normal position following the release of said forearm catch but yieldable to permit manual movement of said forearm to said removed position thereof.

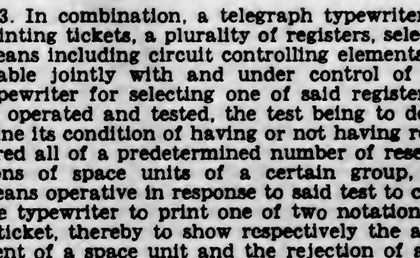
2,594,863
CRYSTALLIZATION OF SORBITOL
Frank H. Buck, Brandywine Hundred, Michael M. Luskin, New Castle Hundred, and Marshall T. Sanders, Brandywine Hundred, Del., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
Application December 24, 1948, Serial No. 67,202
5 Claims. (Cl. 260—637)



1. A process for preparing granular crystalline sorbitol which comprises advancing a body of preformed granules of crystalline sorbitol through an elongated zone in which the granules are forcibly mixed and rubbed one against another; adding molten sorbitol containing not more than about 2 percent water to the forepart of said elongated zone; distributing said molten sorbitol over said granules in said forepart and in a subsequent part of said elongated zone by said forcible mixing and rubbing action among the granules; the rate of addition of molten sorbitol to said elongated zone being insufficient to provide a matrix about said granules after mixing; discharging granular crystalline sorbitol from the after end of the elongated zone after the added molten sorbitol has substantially crystallized; and maintaining the temperature in the said elongated zone above about 120° F. and below the melting point of sorbitol.

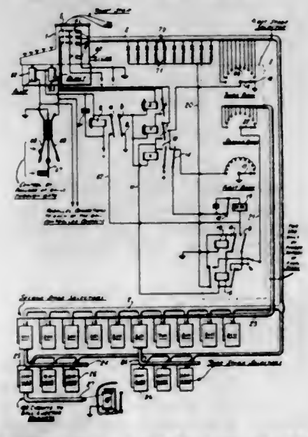
2,594,864
GATE OR THE LIKE
Stuart Gibson Buckland, Sale, and George Ernest Hopkins, Withington, England, assignors to Hopkins & Buckland Limited, Manchester, England, a British corporation
Application July 19, 1949, Serial No. 105,594
In Great Britain July 24, 1948
8 Claims. (Cl. 160—351)

1. A gate comprising a rigid non-extensible obstructing framework, ground engaging members projecting laterally from the base of said framework and adapted to contact the ground on either side of the framework and strut-like pressure-exerting fixing means expandible in the plane of the framework mounted at the top of the said framework and adapted to be expanded to locate the top of said gate by exerting pressure



on spaced abutments, said ground engaging members preventing rotation of said framework about said fixing means.

2,594,865
SYSTEM FOR MAKING RESERVATIONS
Ralph W. Bumstead, Westfield, N. J., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application January 20, 1947, Serial No. 723,078
16 Claims. (Cl. 235—61)

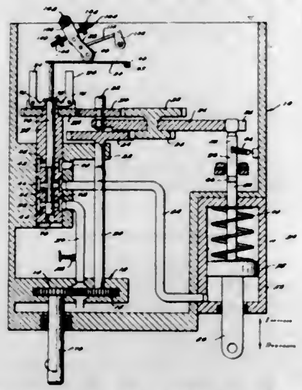


3. In combination, a telegraph typewriter for printing tickets, a plurality of registers, selective means including circuit controlling elements operable jointly with and under control of said typewriter for selecting one of said registers to be operated and tested, the test being to determine its condition of having or not having registered all of a predetermined number of reservations of space units of a certain group, and means operative in response to said test to cause the typewriter to print one of two notations on a ticket, thereby to show respectively the allotment of a space unit and the rejection of a request therefor.

2,594,866
GOVERNOR MECHANISM
Burnell O. Burritt, Detroit, Mich.
Application November 14, 1946, Serial No. 709,768
7 Claims. (Cl. 264—7)

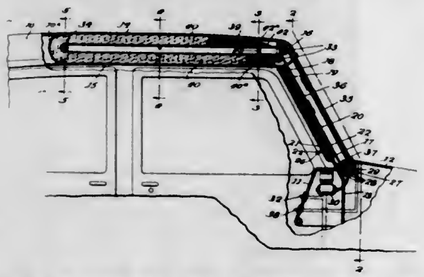
1. An apparatus for governing the speed of an associated mechanism, said apparatus comprising a servomotor adapted to actuate the throttle or other power medium control of the associated mechanism, a source of fluid under pressure, means connecting said source to said servomotor and including a valve element movable in either

direction from a neutral positon for controlling the operation of the servomotor, speed setting means urging said element in one direction, a rotary element operatively connected to said valve element for urging the latter in the opposite direction with a force proportional to the speed of said rotary element, drive means for connecting



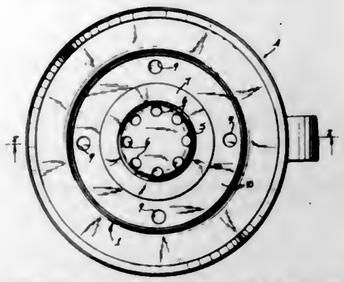
said rotary element to said associated mechanism for rotation at a speed proportional to the speed of said associated mechanism, and means operatively connecting said servomotor and said drive means and operable to vary the driving ratio of said drive means during operation of the servomotor.

2,594,867
ROTARY WINDSHIELD
Juan Carmona, Miami, Fla.
Application March 11, 1948, Serial No. 14,208
5 Claims. (Cl. 296—84)



1. In windshield guard assemblages and in combination, an automobile body including a windshield, said body having its roof formed of the usual top and a ceiling extending from front to rear in approximate parallelism with the top and spaced therefrom a material distance to thereby form a space extending to and forward of the top of the windshield, said top and ceiling being connected by an arcuate member intermediate the ends of such space and remote from the front end thereof to thereby isolate the forward portion of the roof space with the distance between the front and rear ends of the isolated space being materially greater than the vertical dimension of the windshield, a transversely extending idler roll positioned at the axis of the curvature of the spaced arcuate member and a guard formation overlying the front of the windshield, said guard formation including an endless apron trained over a plurality of rolls including a transverse roll positioned forward of and below the bottom of the windshield and operatively mounted to be power-driven at will, said rear idler roll and a pair of idler rolls located in the front portion of said roof space to thereby provide a travel path for the apron overlying the front of the windshield and extending rearward in said roof zone space with the apron positioned for travel in two parallel flights extending between the power-driven roll and the rear idler roll, means positioned between the apron flights and the spaced top and ceiling for clearing and drying the face of the apron exposed at the front of the guard formation, said means being cooperative with the apron face throughout substantially the length of the portion of the apron located within such roof space.

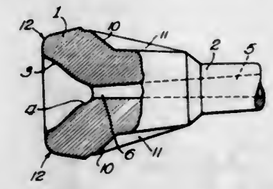
2,594,868
MILK BOILER WITH SAFETY LID
Nicolás J. Caserta, Buenos Aires, Argentina
Application May 5, 1949, Serial No. 91,435
In Argentina August 19, 1948
2 Claims. (Cl. 126—384)



1. A cover for use with a milk boiling vessel having an enlarged outwardly flared top portion and an inwardly directed annular shoulder spaced below the base of the outwardly flared top portion, said cover comprising a flat circular bottom wall rested at its periphery on the shoulder, an upstanding dome-like portion formed concentrically in said bottom wall, said dome-like portion being formed adjacent its crown with a plurality of apertures, said dome-like portion being tubular and opening at its bottom end through said bottom wall and communicating at its top end with said apertures, said bottom wall being formed with a plurality of apertures arranged in a circle arranged concentric with but spaced outward from the base of said dome-like portion, and a metallic ring engaged about said dome-like portion below its apertures and with its outer periphery spaced inward of the circle of apertures formed in said bottom wall, said ring being channel-shaped in cross-section with the open side of said channel facing radially outward.

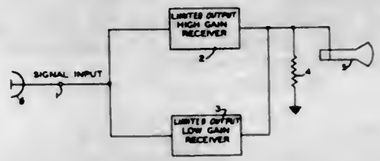
2,594,869
CUP MOUTHPIECE FOR MUSICAL INSTRUMENTS
John W. Cauffman, Elkhart, Ind.
Application August 2, 1949, Serial No. 108,087
2 Claims. (Cl. 84—398)

1. A cup mouthpiece of the character set forth comprising a unitary body portion having an integral tubular neck extending from its inner end, said body portion having opening from its outer end a first chamber having a first diameter taken in one direction at right angles to the direction of the length of the mouthpiece of greater length than a second diameter taken at substantially right angles to the first-mentioned diameter, the inner surface of said first chamber at the ends of said first diameter being curved about radii of lengths less than one-half said first diameter, the inner surface of said chamber at the ends of said second diameter being curved about radii of lengths greater than said second diameter, said chamber diminishing in area inwardly of the mouthpiece but maintaining the same general contour and opening at its inner end into a second chamber coaxial with



and of smaller area than said first chamber, said second chamber being of smaller size but of the same general contour as said first chamber whereby to reduce but not substantially to change the outer contour of the air column as it passes from the inner end of said first chamber to said second chamber, and said second chamber diminishing in area inwardly of the mouthpiece and opening at its inner end into a throat which opens into the hollow interior of said neck.

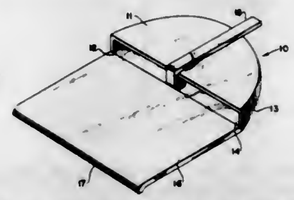
2,594,870
INDICATOR
Stanley N. Van Voorhis, Rochester, N. Y., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy
Application November 29, 1945, Serial No. 631,756
3 Claims. (Cl. 315—22)



1. An electric circuit comprising in combination, a cathode ray tube including a screen, a pair of receivers, means for simultaneously applying a signal to said pair of receivers having output amplitudes limited to predetermined levels, a device for additively combining the outputs of said pair of receivers, means for applying this additively combined output to said cathode ray tube to modulate the intensity of the electron beam in said tube, one of said receivers being a high gain device which amplifies low amplitude input signals and the other of said receivers being a low gain device giving but very little amplification to high amplitude input signals.

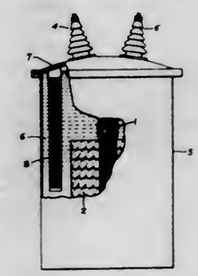
2,594,871
ANTENNA
Lan Jen Chu, Brookline, and William O. Smith, Belmont, Mass., assignors, by mesne assignments, to the United States of America as represented by the Secretary of War
Application July 9, 1945, Serial No. 604,023
7 Claims. (Cl. 250—33.65)

6. A directive antenna, with means for distorting the radiation pattern from said antenna substantially into $\csc^2\theta$ pattern in one plane, where θ is the angle measured from the axis of directivity of said undistorted pattern, comprising a directive reflector, a pair of parallel conductive end plates coupled to said reflector and forming therewith a radiating aperture, radiating means



positioned to illuminate said directive reflector, and a single conductive plane member positioned adjacent said radiating aperture and in the plane of one only of said end plates.

2,594,872
STABILIZATION OF HALOGENATED HYDROCARBONS
Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 26, 1945, Serial No. 601,676
11 Claims. (Cl. 175—41)



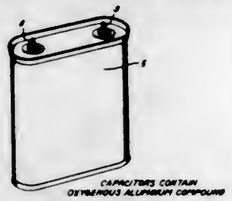
1. An insulating and dielectric composition comprising, in combination, liquid halogenated aromatic hydrocarbon and a change of a compound selected from the class consisting of aluminum hydroxide and aluminum oxide sufficient in amount to prevent decrease of resistivity of said composition.

6. An electric device including in combination cooperating conductors normally charged with different potentials, insulating means therefor consisting of liquid halogenated aromatic hydrocarbon and a sufficient quantity of a compound selected from the class consisting of aluminum hydroxide and aluminum oxide in contact with said halogenated hydrocarbon to prevent decrease of resistivity of said hydrocarbon.

2,594,873
ELECTRICAL CAPACITOR CONTAINING A STABILIZER
Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application April 29, 1947, Serial No. 744,685
4 Claims. (Cl. 175—41)

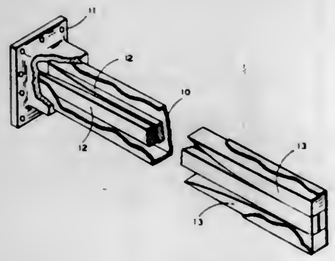
1. An electric capacitor consisting essentially of the combination of a container, an assembly therein comprising cooperating armatures, an interposed paper spacer, and halogenated aromatic hydrocarbon containing a nitro group in molecular combination impregnating said

spacer and a quantity of a compound of the class consisting of aluminum hydroxide and aluminum



oxide enclosed in said container in contact with said aromatic hydrocarbon.

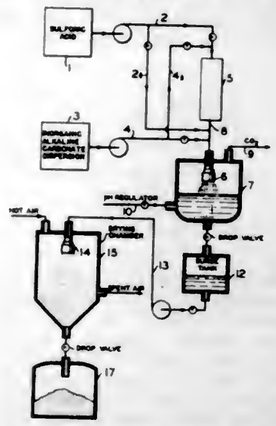
2,594,874
HIGH-FREQUENCY DISSIPATING LOAD
Seymour B. Cohn, Cambridge, Mass., and Harold C. Early, Ann Arbor, Mich., assignors to the United States of America as represented by the Secretary of War
Application May 8, 1946, Serial No. 668,148
5 Claims. (Cl. 178—44)



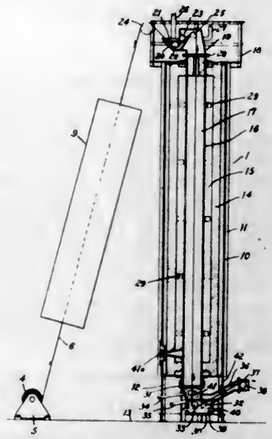
1. A radio frequency power dissipating load including a rectangular wave guide, two poorly-conducting metallic ridges disposed longitudinally and opposite one another within said wave guide, and in contact with the opposite broad sides of said wave guide, and two tapered poorly-conducting metallic plugs extending longitudinally within said wave guide and in contact with the narrow walls of said wave guide.

2,594,875
PROCESS OF NEUTRALIZING AND SPRAY DRYING A SOLUTION OF ORGANIC SULFONIC ACID
Daniel H. Condit, Lafayette, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware
Application April 30, 1948, Serial No. 24,404
16 Claims. (Cl. 252—161)

1. A continuous process for the manufacture of a particulate, substantially dust-free surface-active product of neutralization of an organic sulfonic acid, which comprises neutralizing a liquid feed stream containing an organic sulfonic acid by mixing said feed stream with an aqueous dispersion of an inorganic alkaline carbonate in a confined zone while retaining carbon dioxide gas produced by neutralization of said organic sulfonic acid in said confined zone to form a polyphase mixture of said carbon dioxide gas and of an aqueous liquid containing the salt resulting from the neutralization of said organic sulfonic acid; spraying said polyphase mixture into a liquid-collecting chamber by utilizing the force of the autogenous pressure of carbon dioxide gas present in said mixture to effect the release of said carbon dioxide gas; collecting the spray at the bottom of said chamber in the form of an agglomerated, liquid, essentially defoamed slurry; spray-drying said liquid slurry; and recovering solid, relatively uniform, dust-free particles of said salt of organic sulfonic acid.



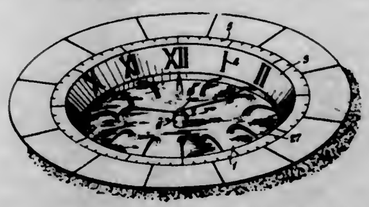
2,594,876
APPARATUS FOR CARBURIZING STEEL
Frank T. Cope, Salem, Ohio, assignor to The Electric Furnace Company, Salem, Ohio, a corporation of Ohio
Original application November 24, 1947, Serial No. 787,798. Divided and this application August 6, 1948, Serial No. 42,759
2 Claims. (Cl. 266—3)



1. In apparatus for continuously uniformly carburizing strip steel, a furnace having a vertical tubular muffle wall forming a carburizing chamber; an entrance housing mounted at the top of said muffle, a trough associated with said housing and forming therewith an entrance opening to said housing and muffle, a current conductive bath in said trough sealing said entrance opening, a roll in said trough bath, a roll in said housing above the upper end of said muffle; an exit housing mounted at the bottom of said muffle provided with an outlet, a current conductive bath in said exit housing sealing said outlet, a roll in said exit housing bath below the lower end of said muffle, heating means for said exit housing maintaining said bath therein at a predetermined temperature; means for supplying carburizing gas to the interior of said muffle; means for passing steel strip to be carburized continuously through said trough and beneath said trough roll, then through said entrance opening and over said entrance housing roll, then vertically downward through said muffle, then through said exit housing bath and beneath said exit housing roll, and then through said outlet; means for heating the furnace chamber externally of the strip; means for passing electric current to and from the strip through said current conductive baths and through the strip while it passes through said carburizing chamber to internally heat the strip; electrical insulation means preventing current flow between said current conductive baths other than through said strip; control means electrically connected with the supply of current passed to and from the strip maintaining a constant uniform power input to the strip thereby maintaining a constant strip carburizing temperature due to internal heating; temperature control means connected with the chamber heating means; pyrometer means mounted in the furnace wall including a plurality of heads one directed toward a longitudinally extending center zone of the moving strip and a second directed toward a longitudinally extending edge portion of the moving strip, a differential temperature device connected with said heads indicating strip temperature differentials across its width between the moving strip center zone and edge portion, and means electrically connected with said device and the power input control means actuated upon indication of a temperature differential to operate the power input control means to change the rate of power input

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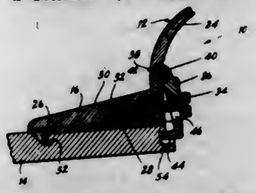
2,594,877
FOUNTAIN CLOCK
Geoffrey Albert Crockett, London, England
Application May 4, 1949, Serial No. 91,249
In Great Britain May 6, 1948
5 Claims. (Cl. 58—2)



1. A clock comprising a basin adapted to contain a liquid, a standpipe mounted centrally of the said basin, two separate rotatable domes, which domes are located on the upper end of and communicate with the said standpipe, a clock mechanism for driving the said domes, one of the domes making one revolution in one hour and the other dome making one revolution in a period which is an arithmetic factor of twenty-four hours, a jet orifice provided in each of said domes, means for supplying liquid under pressure through the standpipe to the said domes from which it is projected through the said jets to form liquid jets which fall into the said basin, and means to enable the length of the liquid jets to be adjusted

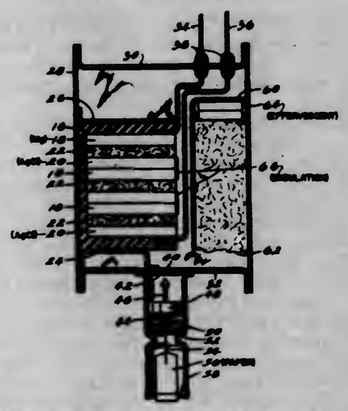
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2,594,878
HANDLE CONNECTION
Clarence L. Davis, St. Louis, Mo.
Application August 18, 1948, Serial No. 44,899
1 Claim. (Cl. 306—44)



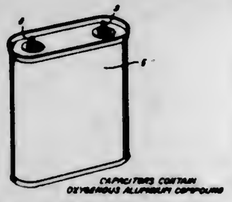
A work tool comprising, in combination, an expendable paddle-like work member, such as a trowel, spatula, or the like, which must be supported from a rearward end for proper use thereof, a longitudinal recess in said work member extending forwardly from said rearward end, said recess having a horizontal plane surface and parallel vertical sides, a first transverse channel formed at the forward end of said recess and extending downwardly and rearwardly therefrom, a second transverse channel formed at the rearward end of said work member and extending horizontally forwardly therefrom, a handle construction releasably secured to said work member including a base having a lower horizontal plane surface and parallel vertical sides snugly disposed in said recess thereby eliminating relative lateral movement between said work member and said handle construction, said base including a transverse hook portion extending downwardly and rearwardly from a forwardly disposed end thereof, said hook portion engaging a wall of said first transverse channel in said work member, a handle grip support extending upwardly and rearwardly from said base, a member pivotally connected to said grip support, said pivotally mounted member having a transversely extending flange releasably engaging a wall of said second channel in said work member, and a screw extending through said pivotally mounted member and anchored in said base for drawing pivotally mounted member into position engaging a wall of said second channel to secure said handle construction on said work member.

2,594,879
DEFERRED-ACTION BATTERY
James N. Davis, Elmont, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts
Application October 9, 1948, Serial No. 53,674
13 Claims. (Cl. 136—90)



1. A deferred-action battery assembly compris-

spacer and a quantity of a compound of the class consisting of aluminum hydroxide and aluminum



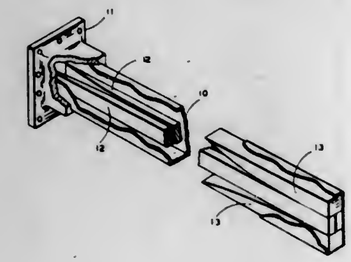
oxide enclosed in said container in contact with said aromatic hydrocarbon.

2,594,874

HIGH-FREQUENCY DISSIPATING LOAD

Seymour B. Cohn, Cambridge, Mass., and Harold C. Early, Ann Arbor, Mich., assignors to the United States of America as represented by the Secretary of War

Application May 8, 1946, Serial No. 668,148
5 Claims. (Cl. 178—44)



1. A radio frequency power dissipating load including a rectangular wave guide, two poorly-conducting metallic ridges disposed longitudinally and opposite one another within said wave guide, and in contact with the opposite broad sides of said wave guide, and two tapered poorly-conducting metallic plugs extending longitudinally within said wave guide and in contact with the narrow walls of said wave guide.

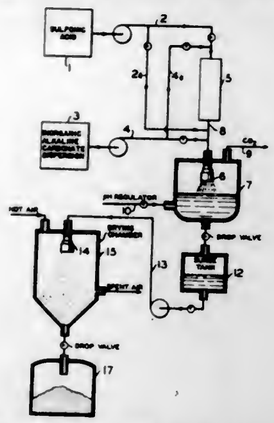
2,594,875

PROCESS OF NEUTRALIZING AND SPRAY DRYING A SOLUTION OF ORGANIC SULFONIC ACID

Daniel H. Condit, Lafayette, Calif., assignor to California Research Corporation, San Francisco, Calif., a corporation of Delaware

Application April 30, 1948, Serial No. 24,404
16 Claims. (Cl. 252—161)

1. A continuous process for the manufacture of a particulate, substantially dust-free surface-active product of neutralization of an organic sulfonic acid, which comprises neutralizing a liquid feed stream containing an organic sulfonic acid by mixing said feed stream with an aqueous dispersion of an inorganic alkaline carbonate in a confined zone while retaining carbon dioxide gas produced by neutralization of said organic sulfonic acid in said confined zone to form a polyphase mixture of said carbon dioxide gas and of an aqueous liquid containing the salt resulting from the neutralization of said organic sulfonic acid; spraying said polyphase mixture into a liquid-collecting chamber by utilizing the force of the autogenous pressure of carbon dioxide gas present in said mixture to effect the release of said carbon dioxide gas; collecting the spray at the bottom of said chamber in the form of an agglomerated, liquid, essentially defoamed slurry; spray-drying said liquid slurry; and recovering solid, relatively uniform, dust-free particles of said salt of organic sulfonic acid.

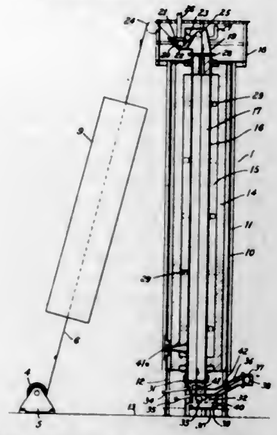


2,594,876

APPARATUS FOR CARBURIZING STEEL

Frank T. Cope, Salem, Ohio, assignor to The Electric Furnace Company, Salem, Ohio, a corporation of Ohio

Original application November 24, 1947, Serial No. 787,798. Divided and this application August 6, 1948, Serial No. 42,759
2 Claims. (Cl. 266—3)



1. In apparatus for continuously uniformly carburizing strip steel, a furnace having a vertical tubular muffle wall forming a carburizing chamber; an entrance housing mounted at the top of said muffle, a trough associated with said housing and forming therewith an entrance opening to said housing and muffle, a current conductive bath in said trough sealing said entrance opening, a roll in said trough bath, a roll in said housing above the upper end of said muffle; an exit housing mounted at the bottom of said muffle provided with an outlet, a current conductive bath in said exit housing sealing said outlet, a roll in said exit housing bath below the lower end of said muffle, heating means for said exit housing maintaining said bath therein at a predetermined temperature; means for supplying carburizing gas to the interior of said muffle; means for passing steel strip to be carburized continuously through said trough and beneath said trough roll, then through said entrance opening and over said entrance housing roll, then vertically downward through said muffle, then through said exit housing bath and beneath said exit housing roll, and then through said outlet; means for heating the furnace chamber externally of the strip; means for passing electric current to and from the strip through said current conductive baths and through the strip while it passes through said carburizing chamber to internally heat the strip; electrical insulation means preventing current flow between said current conductive baths other than through said strip; control means electrically connected with the supply of current passed to and from the strip maintaining a constant uniform power input to the strip thereby maintaining a constant strip carburizing temperature due to internal heating; temperature control means connected with the chamber heating means; pyrometer means mounted in the furnace wall including a plurality of heads one directed toward a longitudinally extending center zone of the moving strip and a second directed toward a longitudinally extending edge portion of the moving strip, a differential temperature device connected with said heads indicating strip temperature differentials across its width between the moving strip center zone and edge portion, and means electrically connected with said device and the power input control means actuated upon indication of a temperature differential to operate the power input control means to change the rate of power input

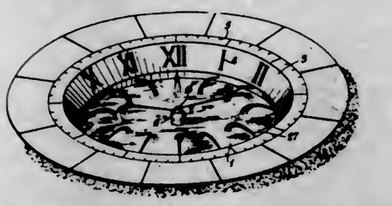
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2,594,877

FOUNTAIN CLOCK

Geoffrey Albert Crockett, London, England

Application May 4, 1949, Serial No. 91,249
In Great Britain May 6, 1948
5 Claims. (Cl. 58—2)



1. A clock comprising a basin adapted to contain a liquid, a standpipe mounted centrally of the said basin, two separate rotatable domes, which domes are located on the upper end of and communicate with the said standpipe, a clock mechanism for driving the said domes, one of the domes making one revolution in one hour and the other dome making one revolution in a period which is an arithmetic factor of twenty-four hours, a jet orifice provided in each of said domes, means for supplying liquid under pressure through the standpipe to the said domes from which it is projected through the said jets to form liquid jets which fall into the said basin, and means to enable the length of the liquid jets to be adjusted

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2,594,878

HANDLE CONNECTION

Clarence L. Davis, St. Louis, Mo.

Application August 18, 1948, Serial No. 44,899
1 Claim. (Cl. 306—44)



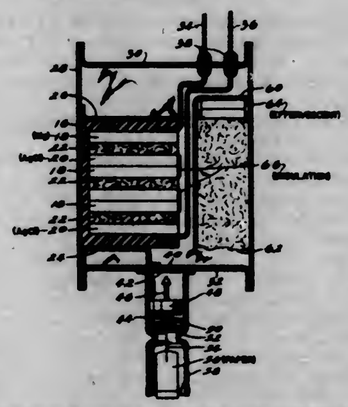
A work tool comprising, in combination, an expendable paddle-like work member, such as a trowel, spatula, or the like, which must be supported from a rearward end for proper use thereof, a longitudinal recess in said work member extending forwardly from said rearward end, said recess having a horizontal plane surface and parallel vertical sides, a first transverse channel formed at the forward end of said recess and extending downwardly and rearwardly therefrom, a second transverse channel formed at the rearward end of said work member and extending horizontally forwardly therefrom, a handle construction releasably secured to said work member including a base having a lower horizontal plane surface and parallel vertical sides snugly disposed in said recess thereby eliminating relative lateral movement between said work member and said handle construction, said base including a transverse hook portion extending downwardly and rearwardly from a forwardly disposed end thereof, said hook portion engaging a wall of said first transverse channel in said work member, a handle grip support extending upwardly and rearwardly from said base, a member pivotally connected to said grip support, said pivotally mounted member having a transversely extending flange releasably engaging a wall of said second channel in said work member, and a screw extending through said pivotally mounted member and anchored in said base for drawing pivotally mounted member into position engaging a wall of said second channel to secure said handle construction on said work member.

2,594,879

DEFERRED-ACTION BATTERY

James N. Davis, Elmont, N. Y., assignor to Sylvania Electric Products Inc., a corporation of Massachusetts

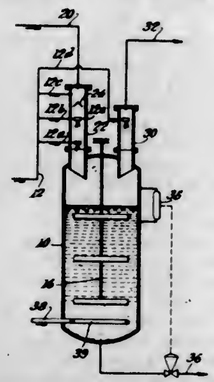
Application October 9, 1948, Serial No. 53,674
13 Claims. (Cl. 136—90)



1. A deferred-action battery assembly compris-

ing a container, a deferred-action battery within said container, means for admitting activating liquid to the container, and a deferred-action source of gas external of said battery and within said container to expel free liquid.

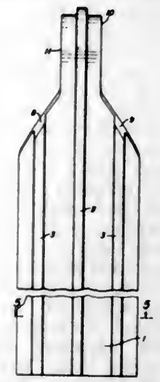
2,594,880
PURIFICATION OF OILS BY CLAY CONTACTING
Hyman R. Davis, Jackson Heights, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application November 1, 1949, Serial No. 124,929
8 Claims. (Cl. 210—42.5)



1. The method of contacting oil with a clay refining agent which comprises fluidizing said clay with an inert gas, passing said fluidized clay at a temperature below the boiling point of water into a chamber, injecting oil at a temperature in the range of 300° F. to 650° F. into said chamber thereby wetting said clay thoroughly with said oil and liberating the moisture therefrom, withdrawing from said chamber said inert gas and moisture vapor substantially free of clay, and a mixture of said oil and clay, passing said mixture of oil and clay to a contact zone, retaining said mixture in said zone for a sufficient time to contact said oil with said clay and to liberate light gases formed during said contacting, withdrawing from said zone said liberated gases and said inert gas, and separately withdrawing said clay and contacted oil from said zone.

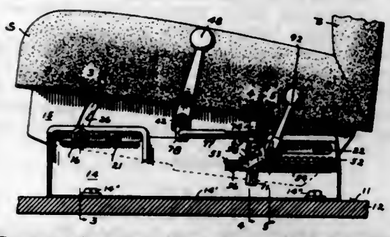
2,594,881
ELECTRODE FOR CHROMIUM PLATING
Lacy Glenn De Quasie and Richard F. Eisenberg, Rochester, N. Y., assignors to Rochester Lead Works, Inc., Rochester, N. Y., a corporation of New York
Application December 28, 1949, Serial No. 135,429
1 Claim. (Cl. 204—286)

A one-piece lead-containing chromium plating anode comprising a relatively wide and thin body portion approximately 3" wide and $\frac{1}{16}$" thick and a single suspending hook portion of the same material as the body portion and of less width than the body portion, the body portion and hook portion having a continuous rib extending endwise and centrally thereof on their front and the body portion having outer ribs extending endwise thereof on its front and spaced from said central rib and from the side edges, the surfaces on said body and hook portions adjacent to the central rib being inclined from said central rib inwardly toward the side edges of the hook portion and toward the outer ribs of the body portion, and the back of the body and hook portions having an arcuate enlargement



extending endwise and centrally thereof, the anode having a minimum thickness throughout of approximately $\frac{3}{16}$" and the hook portion being resistant to bending.

2,594,882
ADJUSTABLE SEAT SUPPORT
John P. De Rose, Albany, Calif.
Application December 26, 1947, Serial No. 794,044
5 Claims. (Cl. 155—14)

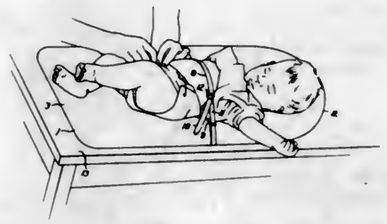


1. In a seat-supporting means, a base member disposed beneath the seat, a member depending from the seat in fixed relation thereto, one of said base and seat members being provided with a horizontal fore-and-aft support face, a support element having a cylindrical portion horizontal and engaging across said support face and laterally slidable along said face, a member carrying said element for rotation about the axis of its cylindrical portion, a nut member supportedly engaging said element-carrying member, an upright threaded member mounting said nut and fixed on the other of said base and seat members, and a gear means connecting the nut and element whereby a rotation of the element is operative to effect a height-adjusting movement of the element-supporting member along the threaded member.

2,594,883
SAFETY HOLDING BOARD FOR USE IN CARING FOR BABIES
James R. Donnen, Brooklyn, N. Y.
Application July 2, 1946, Serial No. 681,090
3 Claims. (Cl. 128—134)

1. A safety holding board upon which a baby may lie when being attended, comprising a rectangular-shaped, flat supporting structure made of a rigid material and formed with a main supporting section and with separate rigid hinged

triangular-shaped side sections, a pair of looped strap holding means, each having its free end secured to the under face of said main supporting section at a point adjacent the joint of the hinged side sections therewith, and extending across the under side of said triangular surface beyond the outer side edges thereof, and provided with metal ring members at their looped ends, a removable strap associated with said looped strap holding means, said strap extend-



ing through said metal ring members and being adapted to have its ends secured together to hold the baby in position on said supporting structure, and to raise said hinged side portions at an angle with the plane of the supporting structure when so secured, and means for adjustably securing the ends of said removable straps together to hold the baby on said supporting structure to maintain said hinged side portions in their raised positions.

2,594,884
BAILING TOOL AND THE LIKE
Joseph F. Dornacher, Osage, Wyo.
Application September 20, 1947, Serial No. 775,299
5 Claims. (Cl. 166—19)



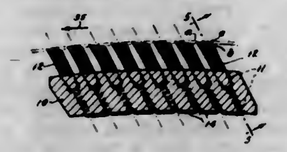
3. In a tool for bailing and the like, a tubular member having walls forming a passageway from end to end thereof, one of the walls of the tubular member having an opening formed therein intermediate and spaced from the ends thereof, the opening having an upper edge, a door removably fitting in the opening and being bodily removable from the opening and the tubular member and the door having an upper end extending back of and engaging the upper edge of the opening, a closure member having a lower end, hinge means connecting the lower end of the closure member with the upper end of the door, the closure member being located in the passageway when the door is in the opening and the closure member being swingable in the passageway and shaped to close the passageway when swung to one position and open the passageway when swung to another position, and means on the lower end of the door for releasably locking the door in the opening.

2,594,885
IRRIGATION SIGNAL
George V. Due, Escalon, Calif.
Application March 21, 1949, Serial No. 82,640
4 Claims. (Cl. 116—118)



1. An irrigation signal comprising a ground-supported base, an upstanding frame on the base and including a post, a horizontal shaft journaled in the post adjacent the upper end thereof, an elongated signal rod extending radially from the shaft, an extension leg rigid with the rod at substantially 90 degrees thereto and radially of the shaft, a spring acting on the rod tending to swing the same to an upstanding position, a substantially horizontal lever below and extending lengthwise of the shaft, said lever having a short leg and a long leg and being pivoted on the post on a horizontal axis at a right angle to the shaft, the short leg being adapted to engage and releasably latch said extension leg when the signal rod is swung down to a substantially horizontal position and the spring is placed under load, and a float on the outer end of the long leg of the lever.

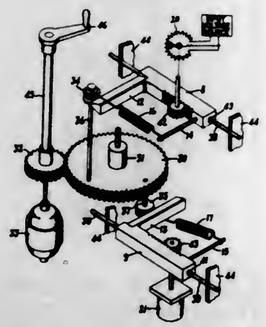
2,594,886
BRISTLE GIGGING BRUSH
Harold C. Dunn, Andover, Mass., assignor to American Woolen Company, New York, N. Y., a corporation of Massachusetts
Application February 16, 1950, Serial No. 144,493
2 Claims. (Cl. 26—31)



1. In a gigging machine for finishing textile fabrics, the combination with a cylindrical rotat-

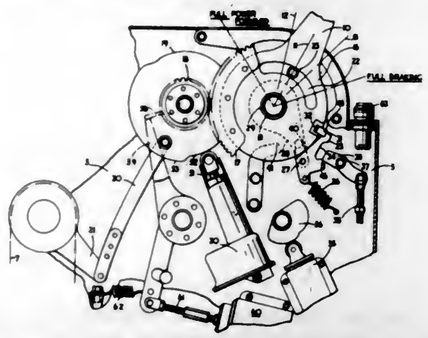
ing drum and means for carrying a web of cloth past the drum and in contact with the surface thereof in the same direction as the movement of the surface of the drum, said drum being provided with tufts of bristles set at an angle to the diameter of the drum and inclined in the direction of rotation of the drum, the bristles composing said tufts being trimmed on a plane at an angle to the tangent to the periphery of the drum, and the bristles at the trailing edge of the tufts being shorter than those nearer the leading edge thereof.

2,594,887
ELECTROMECHANICAL TRIGONOMETRIC CONVERTER
Howard G. Earls, Syracuse, and Wallace B. Watson, Clay, N. Y., assignors to General Electric Company, a corporation of New York
Application April 21, 1949, Serial No. 88,786
7 Claims. (Cl. 235—61)



6. A mechanism for accurately deriving, from an input voltage, a pair of output voltages proportional to the sine and cosine, respectively, of an angular displacement, comprising a plate mounted on a shaft secured to a frame, said plate being rotatable about the axis of said shaft, a pair of rollers mounted on pivot pins, one above and one below said plate, said pins being secured to said plate so that radial lines from said axis through their center make a right angle at said axis, said rollers having a grooved rim, a pair of longitudinally slideable members, a pair of straight rods held rigidly in a frame, bushings in each of said slideable members for receiving said rods, said bushings being located to constrain said members to move in parallel lines, each of said members comprising an end portion having a straight edge located in the plane of rotation of said roller and making a right angle with the direction of motion of said member, a pair of tension springs fixed to said pins at one end and to said members at the other for holding said edges against said rollers at the grooved rims, teeth cut into said slideable members forming a rack parallel to the direction of motion of said members, a pair of potentiometers across which said input voltage is applied, each of said potentiometers having a resistance element, circularly disposed, and a rotating contact arm for making connection to a portion of said resistance, said portion having a magnitude directly proportional to the angular displacement of said arm from a reference position, and a pair of pinions fixed to said arms and engaging said racks for mechanically interlinking said arms to said slideable members, said output voltages appearing at said contact arms.

2,594,888
CONTROL OF MULTIENGINE AIRCRAFT
Frederick R. Elliott, Coventry, England, assignor to Sir W. G. Armstrong Whitworth Aircraft Limited, Coventry, England
Application February 4, 1949, Serial No. 74,632
In Great Britain April 22, 1948
3 Claims. (Cl. 170—135.2)



1. For an aircraft having reversible-pitch airscrews, driven from different engines, on opposite sides of the longitudinal centre line of the aircraft, coaxially-mounted throttle levers for the engines, means whereby each throttle lever will accelerate the associated engine when moved in either direction from a predetermined closed position, a trigger associated with each throttle lever and adapted in said predetermined closed position of the latter to interlock therewith, a stop for each of said triggers, each of said triggers arranged when moving to the interlocking position to move clear of its associated stop, said triggers mounted on arms which are connected to one another for rotation in unison about the axis of said throttle levers whereby the throttle lever which first reaches said predetermined position is held there by the engagement of the other trigger with its stop until the other lever reaches the said predetermined position, in which latter conditions both throttle levers can be moved in unison in the same direction, and means for reversing the pitch of the airscrew when the associated throttle lever is moved in the aforesaid direction from said predetermined position.

2,594,889
SYNTHESIS OF CYCLOOCTADIENE-1,5
Richard M. Elofson, Ponoka, Alberta, Canada, assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application December 31, 1949, Serial No. 136,399
2 Claims. (Cl. 260—666)

1. The process of producing cyclooctadiene-1,5 which comprises heating cyclooctatetraene with an alkali metal in a low boiling aliphatic alcohol.

2,594,890
CONTACT PROTECTION ARRANGEMENT
Walter B. Ellwood, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 16, 1950, Serial No. 179,817
8 Claims. (Cl. 175—294)

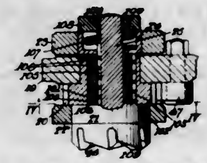
1. In an electrical circuit including a pair of contacts movable with respect to one another for opening and closing said circuit to the flow of electrical current therethrough, a contact arc

minimizing arrangement comprising a conductor connected to said contacts, a mass of magnetic ferrite closely surrounding said conductor at a point immediately adjacent said pair of contacts whereby said ferrite mass imparts a reflected



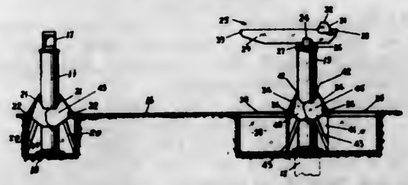
impedance into said conductor at the contact arc transient frequencies so as to dissipate and otherwise slow down the flow of electrical energy to said contact during said contact make-and-break operations.

2,594,891
WIRE STRAPPING TOOL
Harold K. Embree, Hamilton, Ontario, Canada, assignor to Griplock, Inc., Hoboken, N. J., a corporation of Delaware
Application July 11, 1946, Serial No. 682,973
15 Claims. (Cl. 254—51)



1. In a tool of the character described, mechanism for tensioning a strap around a package, said mechanism including a rotatable element for engaging and pulling the strap, a stem projecting co-axially from said element, operable rotating means surrounding said stem for imparting rotation to said element, and means intermediate said stem and said rotating means for causing operation of the latter to rotate said element until the tension of the strap resulting from the pulling of said element thereupon reaches a predetermined degree while permitting the operation of said rotating means to become ineffective thereafter, said intermediate means comprising at least one friction clutch member surrounding and engaged with said stem, at least one other friction clutch member surrounding said stem and engaged with the rotating means, and means on said stem for holding said clutch members in frictional contact.

2,594,892
COVER MEANS FOR PIT-MOUNTED VEHICLE LIFTS
George A. Estel, Jr., Des Moines, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application August 22, 1949, Serial No. 111,689
4 Claims. (Cl. 254—89)



1. In a vehicle lift including a lift member mounted in a floor pit and movable to a lowered position within said pit below the level of the floor surface, an axle supporting structure carried at the upper end of said lift member including a transverse beam member, said floor surface having a transverse opening therein adapted to receive said beam member therethrough, a pair of hinged cover members for closing said transverse opening pivotally supported on said floor surface at opposite sides of said opening for pivotal movement toward each other to closing positions, plate members arranged adjacent the opposite ends of each cover member and projected downwardly therefrom, with the plate members at corresponding ends of said cover members being offset longitudinally of said cover members and of a combined length greater than the width of said opening so as to be in an overlapping relation when the cover members are in open positions whereby to form end guards for such opening, said plate members, at corresponding ends of said cover members, having a combined width less than the width of said opening to provide a space therebetween for the reception of said transverse beam, when said cover members are moved to their closed positions.

2,594,893
MAGNETIC RECORDING MEDIUM
Harold T. Faus, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Original application January 9, 1945, Serial No. 572,034. Divided and this application October 5, 1946, Serial No. 701,609
3 Claims. (Cl. 274—41.4)

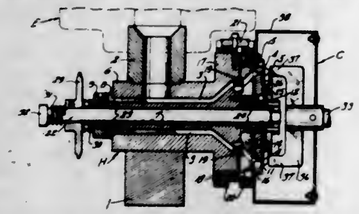


2. A magnetic recording medium comprising a record base member of silicon steel sheet material characterized by a low reluctance and low coercivity, said member having a face and a substantially constant thickness in a direction normal to each point of said face, a coating on said face of less than said thickness comprising comminuted particles of magnetizable metallic oxide dispersed in an organic binder adhering to said face, said particles consisting of magnetite, ferric oxide and cobaltic oxide and being characterized by a high reluctance and high coercivity in relation to the characteristics of said sheet material, and a needle track comprising an indented groove in the exposed surface of said coating, said track being adapted to physically contact a magnetic recording needle for impressing a magnetic signal in said coating between the bottom of said groove and said face of said member.

2,594,894
APPARATUS FOR PELLETIZING
Ludwig Karl Fehrenbach, Hartford, Conn., assignor to Plax Corporation, West Hartford, Conn., a corporation of Delaware
Application May 26, 1950, Serial No. 164,519
7 Claims. (Cl. 18—12)

1. Apparatus for pelletizing thermoplastic resin material comprising an extrusion die having a

plurality of spaced fiber extruding orifices, an extruder for plasticizing and extruding the material through the die orifices as fibers, rotatable



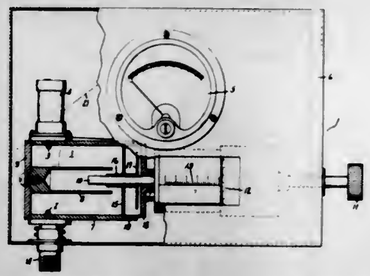
cut-off blade cooperating with the die to cut the fibers into pellet lengths, and a movable knock-off member for engaging and removing pellet lengths from the blade.

2,594,895

HIGH-FREQUENCY SHORT-CIRCUITING ARRANGEMENT

George E. Felker, Jr., Albany, N. Y., assignor to General Electric Company, a corporation of New York

Application December 21, 1946, Serial No. 717,717
1 Claim. (Cl. 178—44)



A high frequency short-circuiting device for a transmission line of the type having concentric inner and outer conductors comprising three conductive walls arranged in parallel planes transverse to said conductors, the outer of said walls being connected by one of said conductors, one of said outer walls and the inner of said walls being connected by a conductive cylinder closely spaced to the other of said conductors, said inner wall and the other of said outer walls being spaced more closely than said one outer wall and said inner wall, and said inner wall forming with said outer walls a plurality of serially connected radial transmission line sections resonant at the frequency of the wave transmitted over said concentric line.

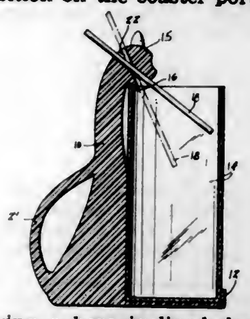
2,594,896

COMBINED DRINKING GLASS COASTER AND STRAW GUIDE

Herman Feldman, Forest Hills, N. Y.

Application February 25, 1950, Serial No. 146,201
2 Claims. (Cl. 65—61)

1. A coaster for supporting a drinking glass and a drinking straw suspended in a drinking position in the glass, comprising a one-piece body having a vertically elongated portion extended along one side of the glass and substantially fitting the contour of the glass, a cup-shaped coaster portion formed integrally at the bottom of said elongated portion for having the bottom of the glass rested therein, said elongated portion continuing at its top end into a top portion extended inward above the top of the glass, and a portion depending from the bottom of said top portion along the inside of the glass holding the glass in position on the coaster portion, said top



portion having a bore inclined downward with its bottom end opening outwardly of said depending portion for having the straw passed therethrough with its bottom end in the glass.

2,594,897

CATHODE STRUCTURE FOR ELECTRON DISCHARGE TUBES

Lester M. Field, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 19, 1945, Serial No. 617,332
14 Claims. (Cl. 313—337)



1. A high power electron emitter comprising a solid metallic core having a portion of its surface coated with emissive material, and a heater element enclosed in one end of said core for heating said surface by conduction through said core.

2,594,898

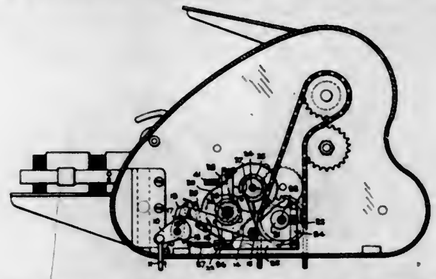
ADJUSTABLE DEFINITE POSITION CLUTCH OPERATOR

Ronald Max Ford and Denis Percy Crane, Sparkbrook, Birmingham, England; said Crane assignor to Frank R. Ford Limited, Birmingham, England, a British company

Application May 25, 1949, Serial No. 95,205
In Great Britain May 31, 1948
5 Claims. (Cl. 192—139)

1. In a duplicating machine wherein the copy sheets are passed in pressure contact with a rotating cylinder and having a driving shaft driven by a power unit through the medium of a releasable clutch, mechanism for disengaging the clutch automatically when a predetermined

number of sheets have been printed comprising a spring-loaded element for disengaging the clutch; a spring-loaded retaining member for locking said element in position when the clutch is engaged; a projection on the retaining member; a rotary disc cooperating with the retaining member and having its periphery engaging said projection, said disc also having a notch on



its periphery to allow the retaining member to move automatically into a released position when said notch is in line with said projection; a ratchet wheel mounted concentrically with said disc and rotating therewith; means for imparting a step-by-step rotation to said ratchet wheel from the driving shaft of the machine; a second rotary disc having a notch on its periphery and a second projection on the retaining member cooperating therewith, said second disc being rotated at less speed than the first-mentioned disc.

2,594,899

PRINTING PASTE COMPRISING A VAT DYE CARRIED IN A WATER-IN-OIL EMULSION, SAID OIL BEING A LIQUID HYDROCARBON IN WHICH AN ALKYD RESIN IS DISSOLVED

Frederick Fordemwalt, Bound Brook, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application September 8, 1949, Serial No. 114,693
2 Claims. (Cl. 8—70)

1. A stable, color-printing paste having a viscosity of 10–100 poises and comprising a water-insoluble vat color disseminated through a carrier; said carrier comprising a water-in-oil type emulsion having an aqueous inner phase containing water-soluble electrolytes, including (*a*) a member selected from the group consisting of the alkali metal hydroxides and carbonates, (*b*) a water-soluble, formaldehyde-sulfoxylate salt, and (*c*) a water-soluble lignin sulfonate salt, suspended in an external oil phase comprising 10–60% by weight of the printing paste, said oil being selected from the low-viscosity liquid hydrocarbons having a distilling range of from 80°–400° C., and having dissolved therein from 4–8% by weight of the oil of an oil-soluble, drying-oil-modified, thermosetting alkyd resin.

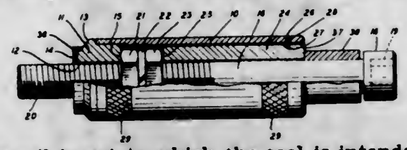
2,594,900

PREGAUGING TOOL FOR WIRE THREAD INSERTS

John O. Forster, Long Island City, N. Y., assignor, by mesne assignments, to Heli-Coil Corporation, Long Island City, N. Y., a corporation of Delaware

Application April 22, 1949, Serial No. 89,060
2 Claims. (Cl. 10—1)

1. A tool of the type described comprising in coaxial arrangement an outer shell having an inner shoulder near one of its end faces, an inner shell extending substantially from the other end face of said outer shell inward and having an inner end face spaced from said shoulder, said shells being releasably connected to each other, a rod of greater length than said outer shell and guided in said inner shell, said rod including means to apply a torque to said rod and being threaded over a substantial part of its length according to the inner thread of a screw thread



wire coil insert to which the tool is intended to be applied, said rod projecting with a portion of its threading from the shouldered end of said outer shell and with said means from the other end of said outer shell and from said inner shell, and a nut assembly in engagement with said rod threading and being located in the space between said shoulder and said inner shell, said nut assembly having abutment faces to engage said inner shoulder of said outer shell and said inner end face of said inner shell respectively.

2,594,901

AXIAL IMPACT TYPE TANG BREAK-OFF TOOL

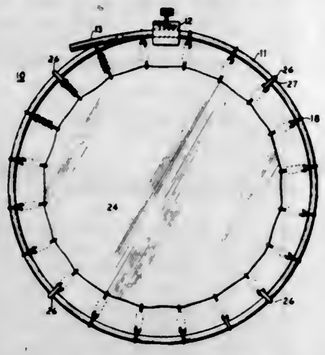
John O. Forster, Long Island City, N. Y., assignor to Heli-Coil Corporation, Long Island City, N. Y., a corporation of Delaware

Application July 25, 1950, Serial No. 175,693
8 Claims. (Cl. 81—52.35)



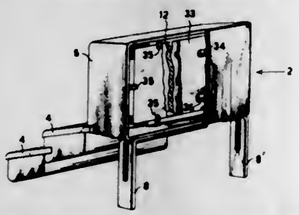
1. A tool for breaking off the tang of a screw thread wire coil, comprising a first sleeve having an inner shoulder near one of its ends, a pilot sleeve telescopically shiftable in said first sleeve so as to project from the other end of said first sleeve, said pilot sleeve having an outer diameter slightly smaller than the inner diameter of the coil for which the tool is designed, a compression spring between said shoulder and said pilot sleeve, interengaging means in connection with both said sleeves to prevent projection of said pilot sleeve beyond a predetermined length from said first sleeve and a punch projecting from said first mentioned end of said first sleeve and being projectable from the opposite end of said pilot sleeve, said punch being guided in said pilot sleeve, and freely shiftable within limits in axial direction with respect to both said sleeves.

2,594,902
DEVICE FOR MOUNTING AND STRETCHING PELTS
John W. Frazier, Bemus Point, N. Y.
Application March 9, 1948, Serial No. 13,883
1 Claim. (Cl. 45—24)



A device for mounting and stretching a pelt comprising a resilient rod of substantially circular cross section and shaped to form a generally circular frame with the ends thereof overlapping, clamping means engaging the ends of said rod, said clamping means facilitating changing the diameter of said frame, a plurality of rings mounted on and freely movable along said rod, springs joined at their corresponding ends to said rings, and means on the other ends of said springs adapted to engage and secure an edge portion of a pelt.

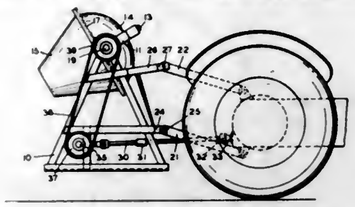
2,594,903
DISPLAY DEVICE
Harry Freedman and Sol Freedman, Philadelphia, Pa.
Application June 28, 1950, Serial No. 170,902
5 Claims. (Cl. 40—135)



1. A display device comprising a photosensitive diaphanous sheet carrying a design in depth, a translucent backing sheet adjacent the rear face of said diaphanous sheet and having a translucent colored design in register with and partly coextensive with said first mentioned design, said translucent backing sheet being formed so that its surface is at varying distances from said diaphanous sheet and a source of light positioned behind said translucent backing sheet.

2,594,904
TRACTOR HITCH AND DRIVE MEANS FOR PORTABLE CONCRETE MIXERS
William O. Frohring, Newbury Township, Geauga County, Ohio
Application July 1, 1948, Serial No. 36,466
1 Claim. (Cl. 259—177)

Mixing mechanism of the character described adapted for use with a tractor having equal length compression and tension links, each link being pivotally attached at one end to the tractor for pivotal movement in a vertical plane, and a power take-off shaft which extends longitudinally of the tractor, comprising a frame detachably and pivotally connected to the other end of each link and adapted to rest upon the ground or to be lifted therefrom, a mixing bowl mounted in said frame for tilting about an axis which extends transversely to the plane of vertical movement of said links and also for rotation about an axis which extends normally to

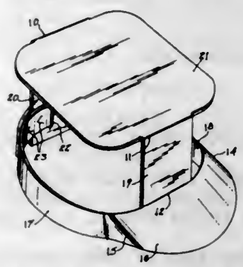


the axis of the tilt, a first driving shaft detachably connected to the power take-off shaft, a second driving shaft mounted in the frame below the bowl and extending parallel to the axis of tilt thereof and perpendicular to the first driving shaft, a bevel gear drive between the first and second driving shaft, and a flexible driving means extending from said second shaft to the bowl for rotating the latter, a universal joint between said first shaft and said power take-off, whereby said frame may be adjusted to various vertical positions while maintaining a driving tension on said flexible driving means.

2,594,905
ARC WELDING ELECTRODE
Charles J. Gallagher, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 30, 1950, Serial No. 152,972
9 Claims. (Cl. 219—8)

1. A non-consumable cored inert gas shielded electrode which is capable of starting an arc instantly and maintaining a stable arc, said electrode comprising a metal having high heat conductivity and a low melting point relative to the core of the electrode, said core comprising a material selected from the group consisting of thoria, zirconia and ceria.

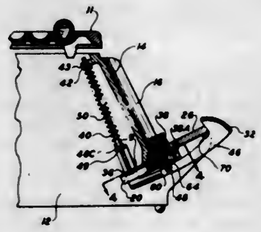
2,594,906
PAPER HAT
Irving Gardner, Hunter, N. Y.
Application May 14, 1949, Serial No. 93,244
1 Claim. (Cl. 2—195)



In a paper hat having a top portion for extension across the top of one's head with a dependent

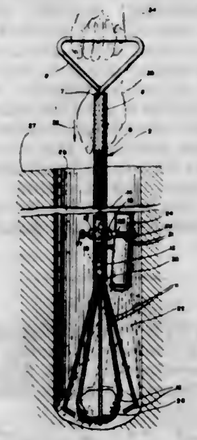
connecting member at the rear thereof and a pair of side strips for extension about the sides of one's head to have their free ends overlapped beneath the lower end of the connecting member, means for adjustably connecting the free ends of the side strips and for connecting the lower end of the connecting member to the side strips, comprising a reduced portion depended from the lower end of the connecting member intermediate of the sides of the connecting member, the side strips having vertically spaced pairs of horizontal slits for having said reduced portion laced through desired aligned pairs of said slits to adjust the side pieces to fit a given head size, said reduced portion being of a width corresponding to the length of said slits holding said reduced portion against lateral shift relative to the side pieces, and tab portions extended laterally from the sides of said reduced portion and extended in juxtaposition with the outer face of the side piece which is held in overlapping relation with the other side piece for retaining said reduced portion against being pulled out of said slits, said tab portions being spaced from the bottom of the connecting member a distance equal to the vertical spacing of the slits of each pair of slits.

2,594,907
COIN DISPENSER
James Scott Gassaway, West Los Angeles, Calif.
Application January 24, 1949, Serial No. 72,421
2 Claims. (Cl. 133—5)



1. A coin changer comprising a housing, a plurality of parallel inclined grooves in one side of the housing for holding coins, a base member affixed to the under edge of said side of the housing and forming a bottom for each groove to support coins in the grooves, a separate tongue mounted on the base member behind each groove and slidable across the bottom of the groove, retaining means extending inwardly from the inner face of said side above the base member, a separate rod engaging the inner end of each tongue and extending upwardly through the retaining means, a pivot pin suspended from the base member, a separate lever arm pivotally mounted on the pivot pin below each groove and extending outwardly and inwardly therefrom, each lever arm comprising a pair of parallel side pieces mounted on the pin, the inner ends of the side pieces turning upwardly on the inside of the housing, a first cross member connecting the inner ends of the side pieces and having a central hole therethrough, the corresponding one of said rods extending through the first cross member intermediate the tongue and the retaining means, and a second cross member joining the forward ends of said side pieces and forming a finger tab whereby the forward end of the lever may be depressed by pressure on the tab.

2,594,908
GRAPPLE HOOK MEANS
Louis H. Gaulke, Marshfield, Wis., and Fred J. Gaulke, Oak Park, Ill.
Application July 15, 1948, Serial No. 38,786
3 Claims. (Cl. 294—100)



1. Grapple hook means including a tubular body, light directing means secured to the said body in a varied range of longitudinally and angularly adjustable relationships, comprising bracket clamp means adjustably securable radially and longitudinally to the said body, light source clamping bracket means secured to the said bracket clamp means so as to afford limited universal movement thereto, and light directing means directed to inaccessible places and secured to the said light source clamping bracket means for directing light rays to a focal point of operation at the free ends of the said grapple hook means.

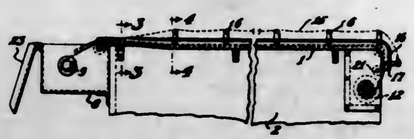
2,594,909
MECHANICAL TRIP CONTROL FOR PRESSES
Vasil Georgeff, Chicago, Ill., assignor to Danly Machine Specialties, Inc., Chicago, Ill., a corporation of Illinois
Application November 3, 1947, Serial No. 783,748
5 Claims. (Cl. 192—138)



1. A control assembly for power presses including, in combination, an actuating lever for controlling the press, an impelling member hav-

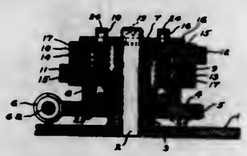
ing operative engagement with said actuating lever, a detent adapted to hold said actuating lever in press operating position, a trip lever adapted to release said detent, means coupling said detent and said impelling member whereby movement of said impelling member in a predetermined direction will drive the detent to actuating lever releasing position, said impelling member being formed with a surface adapted to engage said trip lever when the impelling member is in press stopping position, adjustable means carried by said impelling member adapted selectively to be moved to a position engaging the trip lever when said impelling member is in press running position whereby the control assembly may be adjusted for single cycle operation or for continuous operation and means responsive to the movement of a press part for actuating said trip lever at a predetermined point of the press operation cycle.

2,594,910
ROLL-UP TYPE VEHICLE TOP COVER
Frank A. Germann, Ripley, Ohio
Application December 21, 1948, Serial No. 66,447
4 Claims. (Cl. 296—98)



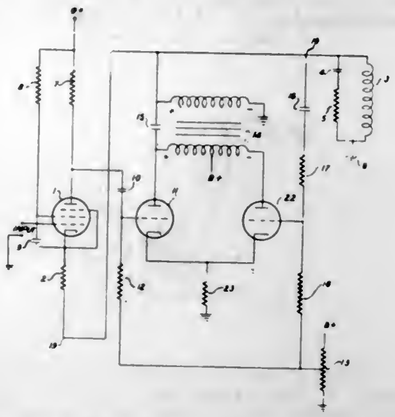
4. In the combination of an open top trailer and a cover for the same, a canopy consisting of waterproof material mounted on resilient ribs, the ends of said ribs riding on parallel tracks mounted on the upper edges of the side walls of the trailer, said resilient ribs being longer than the space between the tracks so that they bow upwardly to form a crown, and a spool at the forward end of the trailer adapted to receive the canopy and unbowed ribs when it is not in use, the resilient ribs being spaced apart and held parallel to each other by straps running through the track in which the ends of the ribs ride, said straps continuing the length of the trailer with their ends attached to winding sheaves mounted on a rotatable shaft for drawing the straps and the canopy off the spool and onto the tracks, the forward end of said tracks spreading apart from each other a distance equal to the length of the resilient ribs, the parallel portions of said track being tilted upwardly so as to assure the upward bowing of said resilient ribs.

2,594,911
CAM MECHANISM
Robert W. Goff, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application May 28, 1949, Serial No. 95,907
3 Claims. (Cl. 74—568)



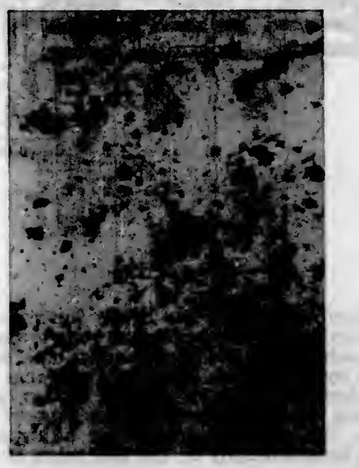
1. An adjustable cam device comprising a rotatable member having a peripherally toothed portion and a recessed hub adjacent thereto and provided with axially disposed openings therein, cam rings having internal toothed portions positioned around said hub, a releasable cover plate secured to the end of said hub opposite said toothed portion and in engagement with one of said rings for pressing said rings into firm engagement with said rotatable member and means for adjusting the angular positions of said cam rings on said hub including individual shafts positioned in said openings, pinions mounted thereon and in respective engagement with said toothed portions and compression springs coiled respectively around said individual shafts to bias said pinions towards the rings corresponding thereto and selectively to bias said pinions toward said hub or said cover plate to provide frictional relationships between said rings and said hub for individual operation of said pinions when said plate is loosened on said member.

2,594,912
ELECTRICAL DRIVING CIRCUIT
John W. Gray, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 27, 1945, Serial No. 580,021
4 Claims. (Cl. 179—171)



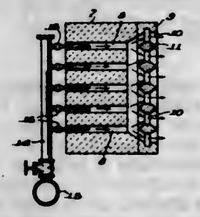
1. A variable voltage, impedance transforming driver circuit comprising first, second and third electron tubes each having an anode, cathode and grid electrode, means to impress a control voltage between said first tube grid and ground, a load having one end thereof grounded, an impedance coupling the ungrounded other end of said load to said first tube cathode, a common grounded cathode bias resistor to which said second and third tube cathodes are coupled, a push-pull output transformer to the primary ends of which said second and third tube anodes are coupled, the secondary end of said transformer having the same polarity as the primary end of said transformer to which said second tube anode is coupled being connected to the junction of said load and said impedance, the other end of said secondary being connected to the grounded end of said load, said first tube anode being coupled to said second tube grid, and a voltage divider network across said load to which said second tube grid is connected to derive a positive feedback voltage therefrom, said second and third tubes serving to amplify the variations in control voltage impressed upon said first tube grid and impress them across said load, whereby the voltage across the load will vary linearly with variations in control voltage.

2,594,913
SUSPENSION POLYMERIZATION EMPLOYING PHOSPHATES OF SUBMICRONIC PARTICLE SIZE
John Marshall Grim, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application November 18, 1947, Serial No. 786,655
13 Claims. (Cl. 260—93.5)



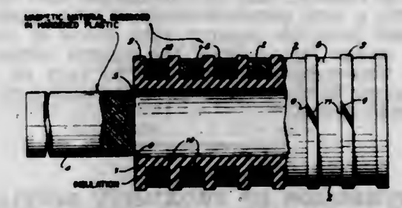
1. In a process for preparing polymer beads, the steps of forming an aqueous suspension by adding to water in one portion a polymerizable composition comprising a polymerizable ethylenic monomer, stabilizing said suspension by means of from about 0.1% to about 5% by weight based on the system of a phosphate, difficultly soluble in water and containing for each phosphate group at least three equivalents of a metal, the carbonate of which is at most only slightly soluble in water, said phosphate being comprised of particles predominantly of a size in the range 0.2–0.005 micron, and effecting polymerization of said ethylenic monomer while thus dispersed, in which process the ratio in parts by weight of said ethylenic monomer to water is no less than 1:1.

2,594,914
BURNER
John Frederick Grosskloss, Steubenville, Ohio
Application February 12, 1949, Serial No. 75,995
3 Claims. (Cl. 158—28)



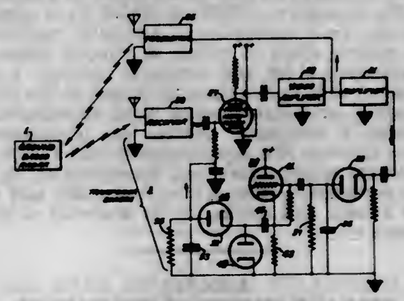
1. Burner apparatus comprising, in combination, a heat insulating wall having spaced openings therethrough, said openings constituting combustion chambers, a burner tip disposed adjacent one end of each opening and positioned to direct fuel thereinto, said burner tips being individually removable and replaceable, means for supplying fuel to predetermined groups of burner tips independently of other groups, and a plurality of refractory bars supported in spaced opposed relation to the other ends of said openings in positions for impingement of flames thereagainst.

2,594,915
OSCILLATING CIRCUITS
René-Edouard Guillemant, Paris, France
Application July 15, 1947, Serial No. 761,085
In France February 5, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires February 5, 1963
9 Claims. (Cl. 250—40)



1. A variable iron core inductance coil comprising a substantially cylindrical hollow support having grooves formed in the outer surface thereof, a predetermined number of turns of wire in each of said grooves, said turns of wire being connected together so that a substantially linear relationship is obtained between the displacement of the variable iron core of the inductance coil and the frequency of the coil, and magnetic material filling at least part of the space around said turns of wire in said groove, said magnetic material being dimensioned to produce the desired relationship between the displacement of said iron core and the frequency of said coil.

2,594,916
AUTOMATIC GAIN CONTROL CIRCUITS
Howard D. Guinac, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 26, 1947, Serial No. 788,198
5 Claims. (Cl. 343—11)



1. In a radio receiver which includes an amplifier variable in gain according to an applied control voltage and which is intended to receive signals which comprise short trains of pulses, said trains being separated by relatively long intervals, an automatic gain control circuit including: a first load circuit, a rectifier, and means applying said received signals to said first load circuit over said rectifier, the load circuit including a first storage capacitor and a first discharge re-

sistor whose resepective capacitance and resistance and whose arrangement with respect to the rectifier are such that said capacitor is substantially fully charged through the diode by each of said signal pulses and is substantially fully discharged by said resistor in the interval between each two of said pulses to produce for each train of pulses a train of saw-tooth voltages; a cathode follower amplifier circuit, and means applying the saw-tooth voltages to the input of said cathode follower circuit; an averaging cycle counter connected to the output of said cathode follower for responding to saw-tooth voltages received therefrom to provide a control voltage increasing stepwise during reception of successive pulses of one of said trains, said averaging counter including a second load circuit comprising a second storage capacitor and a second discharge resistor, said last mentioned load circuit having a time constant which is long compared to said intervals between said trains of pulses, and means for applying the control voltage to said first-mentioned amplifier to vary its gain according to the amplitude of the pulses of said received signals.

2,594,917

SUPPRESSION OF PROXIMITY DEVELOPMENT WITH AZINE COLOR DEVELOPERS

Robert C. Gunther, Easton, Pa., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 16, 1949, Serial No. 133,463
7 Claims. (Cl. 95—2)

1. In the process of producing subtractively colored azine dye images in a tripack, each silver halide emulsion layer of which is sensitized to one of the primary colors and each silver halide emulsion layer of which contains a color former capable of reacting with the oxidation products of 2,4-diaminoaniline to yield an azine dye image complimentary in color to the light for which the layer is sensitized by exposing the tripack and developing the same with a color developer containing as the effective developing agent a 2,4-diamino aniline in which the amino group in 4-position has the structure $-NR_1R_2$ in which R_1 is selected from the class consisting of hydrogen and aliphatic radicals, and R_2 is selected from the class consisting of hydrogen, alkyl and aromatic radicals, and the amino group in 2-position has the structure $-NHR_3$ in which R_3 is selected from the class consisting of aromatic radicals, a ring carbon atom of which is directly linked to the nitrogen atom and aliphatic radicals, a carbon atom of which is directly linked to the nitrogen atom, said carbon atom being substituted by at least 2 hydrogen atoms, the improvement which involves the suppression of proximity development which comprises incorporating in the color developer a phenol free from sulfo and carboxy groups and having in its molecule a single benzene ring.

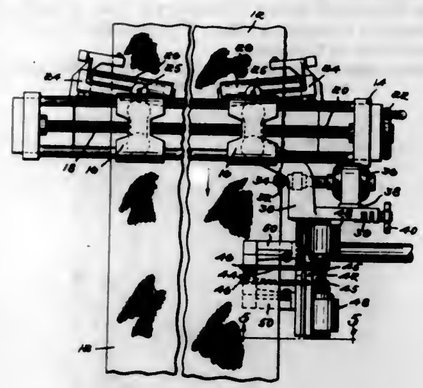
2,594,918

SELVAGE FINISHING MECHANISM

Wilfred N. Hadley, Springfield, Vt., assignor to Parks & Woolson Machine Co., Springfield, Vt., a corporation of Vermont

Application July 6, 1950, Serial No. 172,315
4 Claims. (Cl. 26—11)

1. In a cloth treating machine embodying a frame having means for supporting and moving a strip of cloth longitudinally in open width and taut condition, a guide rail carried by the frame and extending transversely across and parallel with the path of the strip, two heads slidably mounted on and along the rail, two pairs of cloth guiding rolls respectively carried by the two heads and disposed respectively to engage the strip at its two margins and a rod rotatably mounted on and longitudinally of the rail and having oppositely disposed screw threads



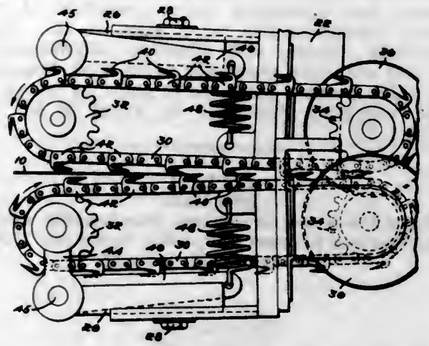
respectively engaging the heads for simultaneously moving the two heads and rolls toward and from each other; the combination of a support carried by one of the heads and movable therewith along the rail, a pair of rotary selvage trimming cutters carried by the support adjacent to the rail, and means for adjusting the cutters longitudinally of the rail relative to the support.

2,594,919

SELVAGE LOOP CUTTING MECHANISM

Wilfred N. Hadley, Springfield, Vt., assignor to Parks & Woolson Machine Co., Springfield, Vt., a corporation of Vermont

Application July 11, 1950, Serial No. 173,210
5 Claims. (Cl. 26—12)



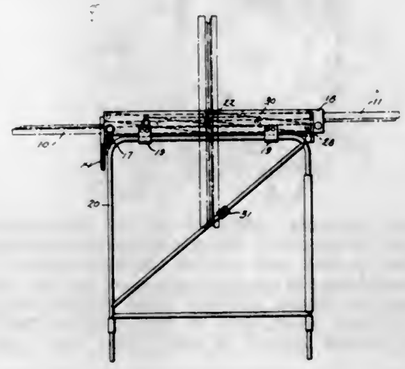
1. A selvage loop cutting mechanism for use on a machine embodying means for supporting and moving a strip of cloth longitudinally in open width and taut condition along a plane predetermined path, comprising a bracket adapted to be carried by the machine in position disposing a free end portion thereof outwardly of one margin of said path, an arm on the free end portion of the bracket outwardly of said margin, a motor carried by the arm, a sprocket on the motor shaft outwardly of said margin, a second sprocket carried by the arm inwardly of said margin, an endless chain supported on the sprockets and having one reach disposed adjacent to and extending across said margin, a plurality of spaced loop cutting knives carried by the chain, and means securing the arm to the bracket for adjustment in directions moving the said one reach toward and from said margin.

2,594,920

VACUUM PRINTING FRAME

Bernard R. Halpern, New York, N. Y., assignor to Zarkin Machine Co., Inc., Long Island City, N. Y., a corporation of New York

Application July 9, 1949, Serial No. 103,919
3 Claims. (Cl. 95—76)



1. A self-balancing, reversible vacuum printing frame comprising a base structure, reversible supporting bars pivoted intermediate their ends in opposed, spaced relation, at opposite ends of said base structure, companion glass and blanket frames adapted and arranged one to substantially counter-balance the other, substantially parallel links pivotally mounted intermediate their ends on the opposite ends of said supporting bars and said links pivotally connected at their opposite ends with the companion glass and blanket frames, respectively, and whereby said glass and blanket frames may be separated in counterbalancing relation by rotative movement of said links on their intermediate pivots on the ends of the supporting bars and said frames may be reversed to bring either the glass or the blanket frame to the top by rotation of said supporting bars on their intermediate pivots on the base structure.

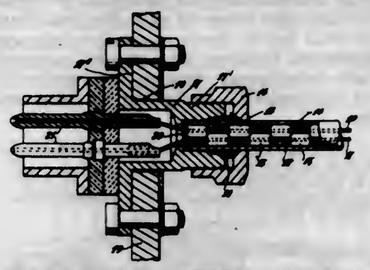
2,594,921

FIRE OR TEMPERATURE RISE DETECTING APPLIANCE

Douglas Arnold Hansard, Rowlands Castle, England, assignor of one-half to Graviner Manufacturing Company Limited and one-half to The Wilkinson Sword Company Limited, both of London, England, and British companies

Application May 23, 1949, Serial No. 94,796
In Great Britain December 16, 1948
2 Claims. (Cl. 201—63)

1. A temperature rise detector of indefinite continuous length for laying in an area to be protected comprising a pair of electrical conductors separated from each other by a spacing substance which is an insulator at temperatures below flame temperature but which becomes conductive at flame or higher temperature, said spacing substance comprising titanium dioxide admixed with magnesium oxide which acts as an inhibitor enables said spacing substance to withstand a



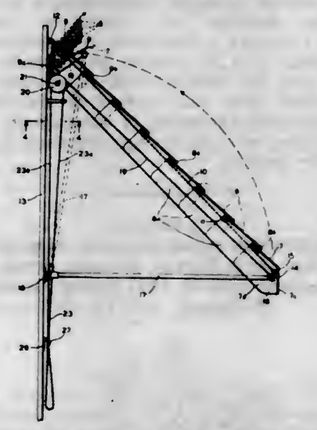
high temperature of over 1000° C. without thereby becoming unserviceable.

2,594,922

SECTIONAL AWNING

Charles Hawla, St. Cloud, Minn.

Application September 15, 1950, Serial No. 184,962
3 Claims. (Cl. 160—62)



1. A sectional awning adapted to project from a supporting wall comprising, a multiplicity of elongated sections normally positioned to form an inclined awning structure in which the longitudinal margins of said sections overlap, one with another, flexible members connecting the normally upper margins of the successive sections together and having upper ends fixed on said supporting wall, the normally lower margins of said sections being free to oscillate upwardly when said flexible members are slack, said members being normally under tension, and means for actuating said sections to retracted positions in relation to the supporting wall, in which positions the normally lower margins of said sections are elevated above their normally upper margins.

2,594,923

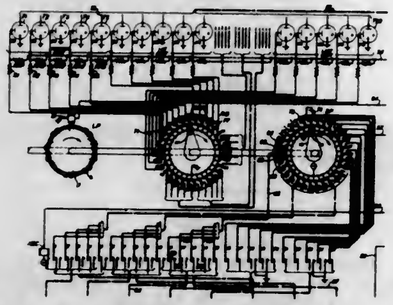
CALL DATA RECORDING TELEPHONE SYSTEM

Ralph E. Hersey, Madison, N. J., and Edward Vroom, Ossining, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 16, 1948, Serial No. 33,414
12 Claims. (Cl. 179—7.1)

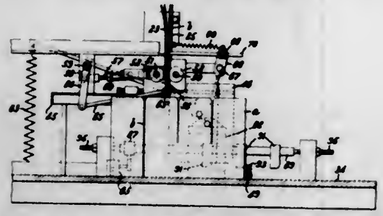
5. A recording system comprising a plurality of electronic devices, each indicative of an item of information, an inductive distributor adapted

to apply a less-than-breakdown potential to each of said devices periodically and in succession, means for increasing said potential to breakdown value at selected ones of said devices thereby to operate said latter devices, means responsive to said operated devices, and means responsive to said last-mentioned means for recording the item of information indicated by said operated devices.



12. A circuit network comprising a plurality of electronic devices, an inductive distributor adapted to apply a less-than-breakdown potential to each of said devices periodically in succession, and an inductive impulser operating in synchronism with said inductive distributor for increasing said potential to breakdown value at selected ones of said devices, thereby to operate said latter devices.

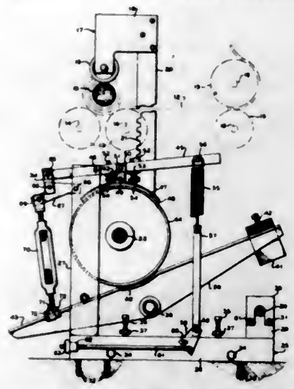
2,594,924
PARTITION ASSEMBLING MACHINE
Robert J. Hickin, Rittman, Ohio
Application July 22, 1947, Serial No. 762,616
15 Claims. (Cl. 93—37)



1. In a partition assembling machine, means defining an assembling station, and means for feeding two sets of partition strips thereto for relative assembly in cellular arrangement, one of said feeding means including a holder for a plurality of partition strips, and means for successively feeding individual strips from such plurality including means for distorting from their normal plane portions of the successively fed strips whereby they may be interleaved with portions of previously fed strips.

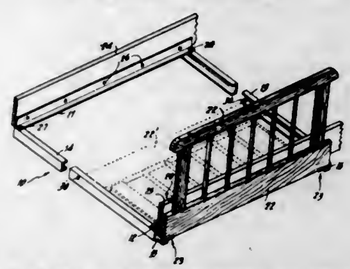
2,594,925
BRAKING MECHANISM FOR LAP WINDING APPARATUS
Robert J. Higginbotham, Charlotte, N. C.
Application August 8, 1950, Serial No. 178,214
12 Claims. (Cl. 19—162)

12. For use in a lap winding apparatus including a roll shaft, logger heads for resisting upward movement of said roll shaft and a pinion shaft for controlling movement of said logger heads, a braking mechanism comprising a brake drum fixed to said pinion shaft, a beam pivotally mounted on said apparatus, friction means carried by said beam and movable into and out of engagement with said brake drum, adjustable means engaging said beam for moving the same to engage said friction means with said brake drum, a frame, a bar pivotally mounted on said frame, a second friction means mounted on said



bar and movable into and out of engagement with said brake drum, adjustable means engaging said bar to bias said second friction means toward said brake drum and means connecting said bar and said beam whereby upon pivotal movement of said beam both of said friction means will be moved toward or away from said brake drum.

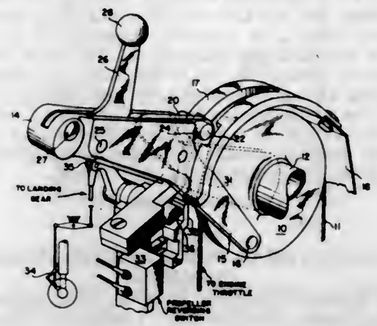
2,594,926
BED FENCE
Roy T. Hoffman, Ravena, N. Y.
Application December 21, 1949, Serial No. 134,275
5 Claims. (Cl. 5—331)



1. A bed fence device adapted to be attached to a bed to prevent an occupant from falling therefrom, which comprises a fence structure, a frame structure adapted to be secured to the under side of said bed and adapted to receive and hold a fence in horizontal, stored position, fence-supporting members slidably mounted in the ends of said frame structure and detachably secured to the bottom of said fence when the latter is held in upright position, and means to secure said fence in upright position.

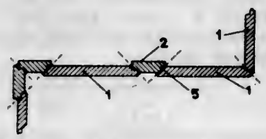
2,594,927
PROPELLER REVERSING THROTTLE
Albert T. Holt, Burbank, Calif., assignor to Lockheed Aircraft Corporation, Burbank, Calif.
Application June 2, 1947, Serial No. 751,927
14 Claims. (Cl. 244—81)

3. An apparatus for controlling an aircraft powerplant having a reversible pitch propeller driven thereby and a throttle controlling the power developed by said powerplant, comprising means associated with said throttle control adapted to energize the reversible pitch propeller into its reverse pitch position, a first throttle lever so constructed and arranged as to actuate said throttle control for powerplant operation in forward propeller pitch, a second throttle lever pivoted to the first throttle lever and so constructed and arranged as to actuate said throttle control for powerplant operation in reverse propeller pitch, a link pivotally connected between said second



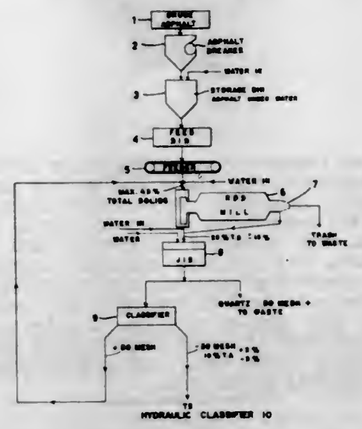
lever and said throttle control, means for locking said link to said first lever for direct operation of said throttle control, an interlock between said levers so constructed and arranged as to prevent movement of said second lever when said first lever is displaced from its neutral point and to prevent movement of said first lever when said second lever is displaced from its neutral point, and a second interlock associated with said propeller reverse pitch means so constructed and arranged as to prevent actuation of said propeller reverse pitch means and said second lever when the aircraft is airborne.

2,594,928
WALL CONSTRUCTION FOR BUILDINGS
Alexandre Horowitz, Eindhoven, Netherlands
Application January 21, 1948, Serial No. 3,529
In the Netherlands January 27, 1947
1 Claim. (Cl. 20—4)



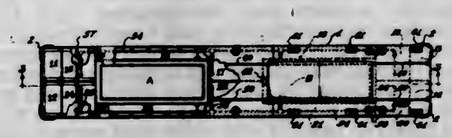
A wall construction for a building, comprising exclusively two different types of adjoining panel units including wide slab members and relatively narrow strip members disposed in mutually off-set relation, with the straight expanses of the wall comprising an alternation of slab and strip members, and the corners of the wall comprising two similar members joined together, the vertical joints between the panel units displaying a stepped configuration in a horizontal section of the wall and each stepped joint being turned at an angle of substantially 90° with respect to the next stepped joint in said wall construction.

2,594,929
METHOD FOR REFINING TRINIDAD LAKE ASPHALT
Henry Clay Howell, Rahway, N. J., assignor to Barber Oil Corporation, New York, N. Y., a corporation of Delaware
Application July 14, 1948, Serial No. 38,682
13 Claims. (Cl. 241—24)



1. The method of refining Trinidad Lake asphalt which comprises the steps of jigging a ground mass of crude Trinidad Lake asphalt to separate therefrom quartz particles of a size of 50 mesh and greater and subjecting the portion of the jigged mass containing quartz particles of a size less than 50 mesh to hydraulic classification in a hydraulic classifier adjusted to overflow quartz particles of a size less than 20 microns, and bitumen.

2,594,930
CARGO BARGE
Edwin B. Hudson, Middletown, Ohio, assignor to Armco Steel Corporation, a corporation of Ohio
Application January 14, 1947, Serial No. 722,033
6 Claims. (Cl. 114—26)



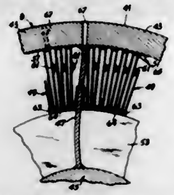
1. In a barge a hull comprising a bottom and side and end walls, ribs overlying said bottom, floored and walled compartments for the shipment of dry cargo symmetrically arranged in said hull and resting on said ribs, said compartments being spaced from the sides and ends of said hull, means dividing substantially the remainder of said hull into tanks for the shipment of liquid cargo, said means comprising walls spaced from the walls of said compartments, said tanks terminating upwardly in a decking extending from the sides and ends of said barge to the walls of said compartments whereby a covered space is left surrounding the walls of said compartments, hatch means covering said compartments, piping communicating with said tanks, and access openings through said decking communicating with the spaces between said compartments and said tanks.

2,594,931

DYNAMOELECTRIC APPARATUS

Ralph L. Jaeschke, Kenosha, Wis., assignor to Dynamatic Corporation, Kenosha, Wis., a corporation of Delaware

Application January 14, 1950, Serial No. 138,646
12 Claims. (Cl. 172—284)



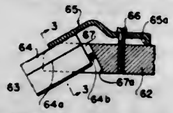
1. An inductor drum construction for electrical machines comprising spaced hub and surrounding segmental eddy-current drum members, the drum being slotted to provide its segments, web members connecting said spaced members and including portions joining adjacent segments at the slots, and accordion folded flexible-metal heat dissipating means located between said spaced members and between the web members, the outer folds only of said heat dissipating means being heat bonded primarily to the segments of the drum.

2,594,932

BLADE HOLDER

David N. Judelson, Parkridge, N. J.

Application March 30, 1949, Serial No. 84,385
4 Claims. (Cl. 164—36)



1. A blade holder for a single-edge razor blade having an enlarged head said blade holder comprising a holder bar which has a longitudinal axis and front and rear ends, said holder bar having a through-and-through vertical holder slot, said holder slot having a top slot-portion and a bottom slot-portion, said top slot-portion being of greater width than said bottom slot-portion, said slot having slot shoulders at the junction between said slot-portions, said slot shoulders being inclined to said longitudinal axis, the front ends of said slot shoulders being lower than the rear ends of said slot shoulders, clamping means connected by connecting means to said bar and adapted to clamp a blade in said slot with the enlarged head of said blade held against said shoulders, and a portion of said head projecting out of the top slot-portion, said clamping means being wholly external to said slot and having a part overlying said top slot-portion and being movable downwardly towards said top slot-portion into contact with said projecting blade portion, said connecting means being located rearwardly of said slot.

2,594,933

PROCESS FOR ELECTRODEPOSITING HARD NICKEL PLATE

Burton Bower Knapp, Westfield, and Dodd Stewart Carr, Elizabeth, N. J., assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application December 7, 1950, Serial No. 199,718
3 Claims. (Cl. 204—49)

1. A process for electrodepositing nickel plate of high hardness which comprises establishing a nickel electroplating bath comprising an aqueous solution containing about 300 grams per liter to about 375 grams per liter of nickel sulfate, about 30 grams per liter to about 60 grams per liter of nickel chloride, about 30 grams per liter to about 45 grams per liter of boric acid, about 0.0018 mole to about 0.015 mole per liter of nickel as an addition agent, said nickel addition agent consisting essentially of an aqueous phosphite solution having nickel and phosphite radical in a ratio of about 1 mole of nickel for about 2 to 2.2 moles of phosphite radical, and the balance essentially water, electrodepositing nickel therefrom at a cathode current density of about 20 amperes per square foot to about 50 amperes per square foot at a cathode disposed in said bath while maintaining the pH of said bath within a range of about pH 1.7 to pH 3.0, and while controlling the temperature of said bath throughout the foregoing operations within a range of about 140° F. to about 150° F., thereby a hard nickel plate is produced at the cathode having a hardness as high as about 450 Vickers.

2,594,934

ERASING HEAD FOR MAGNETIC RECORD MEMBERS

Otto Kornei, Cleveland Heights, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application January 20, 1950, Serial No. 139,759
6 Claims. (Cl. 179—100.2)



6. In a magnetic recorder-reproducer device, an erase head comprised of at least three spaced apart intermeshed teeth and a single source of magnetization common to all of said teeth for oppositely polarizing adjacent teeth; a record member; and driving and guiding means for driving said record member past said erase head in a fixed guided path with said record member in engagement with only the first two of said spaced apart intermeshed teeth for magnetically saturating each incremental portion of the record member as it passes said two teeth, and with successive intermeshed teeth spaced farther from said record member.

2,594,935

DIHALOGENO PROPENYL ARYL ETHERS

Elbert C. Ladd and Merlin P. Harvey, Passaic, N. J., assignors to United States Rubber Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application April 8, 1948, Serial No. 19,888
4 Claims. (Cl. 260—612)

3. 3,3-dihalogeno-2-propenyl aryl ethers and thioethers of the formula

$$X_2C{=}CH{-}CH_2{-}M{-}R^*$$

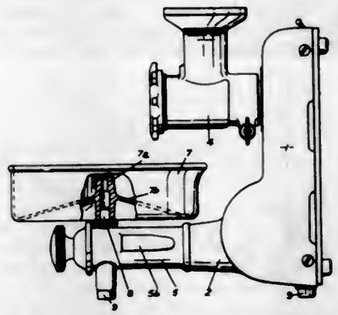
where M is from the class consisting of oxygen and sulfur; R* being an aryl radical; X representing halogen from the group consisting of chlorine, bromine and fluorine.

2,594,936

ELECTRICALLY DRIVEN MACHINE FOR MIXING AND KNEADING OR FOR MINCING

Harold Thomas Lamb, Newcastle-on-Tyne, England

Application May 2, 1950, Serial No. 159,418
In Great Britain May 12, 1949
14 Claims. (Cl. 146—182)



1. A convertible machine having a motor-driven spindle and being capable of use as a mincing machine in one position wherein a mincer is mounted on said spindle and driven thereby, and capable of use as a mixing machine in a second position wherein a bowl is mounted on said spindle and driven thereby in mixing association with a kneading dolly and a bowl scraper, comprising an L-shaped base housing the motor-drive and spindle, the latter projecting from one leg of the L parallel to the other leg; an arm extending from the other leg parallel to said first leg; a dolly bearing pin on the outer end of the arm, the axis of the pin being parallel to that of the spindle, and said arm being swingable on said other leg of the frame whereby the axis of the pin may be moved to a plurality of positions parallel to the axis of the spindle including a position wherein the axes are aligned; a shaft fixed on said other leg and normal thereto, said shaft being also normal to the axis of the spindle and offset therefrom; and a shallow receptacle having a bearing in its bottom whereby when the machine is in mixing position resting on its first leg and the bowl is on the spindle said receptacle may be inverted on the bowl as a cover therefor and held in place by the arm, said pin being located in the receptacle bearing, and whereby when the machine is in mincing position resting on the other leg and the mincer is on the spindle, the receptacle may be journaled on said shaft subjacent the mincer orifice, the receptacle being rotated by the offset discharge thereof.

2,594,937

FLAME RETARDING COMPOSITION

Edgar A. Lauring, International Falls, Minn., assignor to Minnesota and Ontario Paper Company, Minneapolis, Minn.

No Drawing. Application September 6, 1949, Serial No. 114,280
7 Claims. (Cl. 260—18)

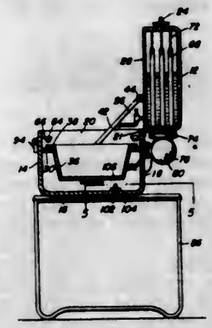
1. A flame retardant composition adapted for surface application to fiber composition board comprising a thermoplastic paint vehicle, powdered sodium tetraborate $5H_2O$ as an inorganic foam-forming ingredient suspended in the paint vehicle, a pigment consisting of about 80 per cent of calcium carbonate and about 20 per cent lithopone, and boric acid.

2,594,938

PORTABLE CAMPING SINK

Jack C. Leavitt, Independence, Oreg., assignor of fifty per cent to Ernest E. Bechtelheimer, Astoria, Oreg.

Application October 6, 1949, Serial No. 119,879
4 Claims. (Cl. 4—187)



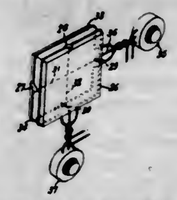
1. A portable sink comprising a pair of hingedly connected casings, the first of said casings being closed to form a tank, the second of said casings having an opening formed in its inner wall, means for supporting said first casing perpendicular to the second casing, and a detachable receptacle seated in the opening in the second casing, and said first casing being provided with outlet means overlying the receptacle in the second casing whereby water in the first casing can flow into the receptacle.

2,594,939

HALL EFFECT CONVERTER CONSTRUCTION

Bernard D. Leete, Peabody, Mass., assignor to General Electric Company, a corporation of New York

Application June 6, 1950, Serial No. 166,515
1 Claim. (Cl. 321—45)



In combination, a magnetic field producing means comprising a core of magnetic material having a pair of poles separated by an air gap and means for alternately magnetizing said core in opposite directions, a semi-conductor Hall plate having first and second mutually transverse axes and being disposed in said air gap such that the magnetic field located between said poles is in a direction perpendicular to each of said axes, a pair of conductors located on opposite sides of said plate and electrically connected to one extremity of said first transverse axis such that said conductors lie external to said plate and said poles on opposite sides of said plate, a potentiometer being located on a line coinciding with said first axis, the position of said potentiometer being beyond the other extremity of said first axis, said conductors being connected to opposite ends of said potentiometer, and external circuit conductors connected to the other said extremity of said first axis and to an adjustable point on said potentiometer.

2,594,940

COMBINED SIDE CATCH AND LOCK FOR BAG FRAMES

Abraham Levine, Elizabeth, N. J.

Original application July 9, 1947, Serial No. 759,729, now Patent No. 2,565,862, dated August 28, 1951. Divided and this application February 28, 1951, Serial No. 213,169
3 Claims. (Cl. 70—66)



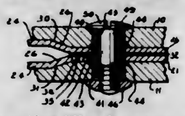
1. A combined side catch and lock for bag frames comprising a casing, a spring released catch plate pivotally connected with said casing, said catch plate having a bag frame engaging catch tongue dependent therefrom through said casing interior, a latch plate slidably mounted within said casing, said catch tongue having a latching notch engageable by said latch plate when said catch tongue occupies bag frame engaging position, spring means for yieldably holding said latch plate in engagement with said catch tongue, a finger piece rotatably mounted on said casing, said finger piece and latch plate having cooperative means for converting rotative movement of the former to sliding movement of the latter, whereby to release said latch plate from holding engagement with said catch tongue, a key barrel rotatably mounted in said finger piece, and a locking mechanism responsive to a key entered in and turned with said key barrel, whereby to lock said latch plate and finger piece against catch tongue releasing manipulation.

2,594,941

PIVOT FOR SHEARS

Alden A. Lincoln, Bridgeport, Conn., assignor to Acme Shear Company, Bridgeport, Conn.

Application March 12, 1948, Serial No. 14,522
3 Claims. (Cl. 30—270)



1. In shears or the like having a pair of blades, a pivot structure connecting the blades for scissor-like manipulation, said pivot structure including a tubular blade-engaging bushing fixed in an aperture in each blade and against rotation relatively to the blade, an interior tubular bushing within and embraced by both said bushings, one of the blade-engaging bushings being fixed to said interior bushing against relative rotation therewith and the other blade-engaging bushing being rotatable relatively to said interior bushing, a headed screw extending through said interior bushing from one side of the shears or the like, a nut on the opposite side of the shears or the like engaged by said screw, and means on said interior bushing and nut interlocking said bushing and nut against rotation relatively to each other.

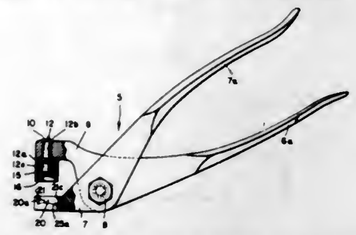
2,594,942

SHEET METAL CLAMP OPERATING TOOL

Wylys L. Lincoln, Los Angeles, Calif., assignor to Monogram Manufacturing Company, Los Angeles, Calif., a corporation of California

Application February 19, 1949, Serial No. 77,312
4 Claims. (Cl. 29—268)

4. In a tool for holding and operating a sheet metal clamp, having an elongated housing and an outwardly facing, radially extending shoulder on said housing, a pair of opposed jaws having handle portions, the jaws being pivotally connected together between their ends for pliers-like swinging movement relative to each other, a first one of the jaws being bifurcated in the form of an interrupted ring, the centrally facing walls of the bifurcations being stepped to form an arcuate shoulder surface at a distance above the lower edges of said walls, said shoulder surface facing inwardly toward the other jaw for engaging the said outwardly facing clamp housing shoulder, said inwardly facing shoulder surface having an



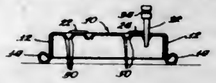
outside bounding diameter greater than the opening between the ends of the bifurcations and presenting substantially diametrically opposite localized areas which are relatively nearer the second jaw and which are disposed on a diametric line across the opening between the bifurcations of the first jaw, said line being substantially parallel to the axis of said pivot and about which localized areas said engaged clamp may rock, said second jaw having a projection extending toward the first jaw, said projection having a concave spherical end surface facing the first jaw for engaging the inner end of the clamp and facilitating said rocking movement.

2,594,943

CRIBBAGE BOARD

Sandy Logan, Chicago, Ill.

Application November 30, 1949, Serial No. 130,300
4 Claims. (Cl. 235—90)



1. A scoreboard comprising, in combination: a panel of sheet aluminum; said panel having a plurality of sockets each adapted to receive and retain a tapered wooden plug by friction; each socket comprising a tubular gripping portion of approximately the same taper as the plug to be received; said gripping portion terminating materially below the level of said panel; said gripping portion being integrally joined with the body of said panel by a portion in the shape of a cornucopia defining an upwardly opening dimple joining said panel and said gripping portion substantially tangentially and having a major diameter about twice as great as said gripping portion.

2,594,944

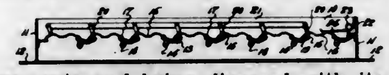
AUTOMATIC VENTILATING SHUTTER

William J. Lohman, Jr., Morristown, N. J., assignor to Chelsea Products, Inc., Irvington, N. J., a corporation of New Jersey

Application December 15, 1948, Serial No. 65,319
4 Claims. (Cl. 98—119)

1. An automatic ventilating shutter for ceiling installation comprising a vertically open horizontal frame, a plurality of parallel louver

members pivotally mounted across the frame opening on longitudinal axes lying substantially in a horizontal plane to swing upward and outward from lapped closed positions toward upstanding open positions under the influence of upward air flow through said opening, each louver member being constructed and arranged in relation to its pivotal axis to provide a free upwardly opening portion extending forwardly from said axis and a counterbalancing portion extending rearwardly therefrom, a tie-rod linking the forwardly extending portions of all louver members for simultaneous opening and closing



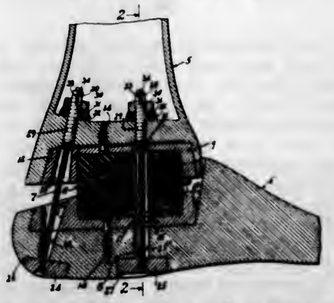
movements and being disposed with its weight supported by said forwardly extending portions and thereby tending to close the same, each rearwardly extending portion of the louver members counterbalancing the weight of the forwardly extending portions of the tie-rod to afford slight closing bias to said louver members with their tie-rod load when in or near closed positions and to afford opening bias when in fully open positions, and spring means for resisting opening movement of the louver members and operable to overcome the opening bias produced by the counterbalancing portions thereof upon cessation of airflow.

2,594,945

ANKLE JOINT FOR ARTIFICIAL LEGS

Fred C. Lucas and Roy P. Lucas, Los Angeles, Calif.

Application April 27, 1949, Serial No. 89,856
8 Claims. (Cl. 3—6)



1. In an ankle joint for artificial legs wherein a leg member and a foot member are flexibly connected, socket members adapted to be secured to opposed portions of said foot and leg members in position to provide opposing sockets, each of said socket members having recesses in opposite walls thereof, a resilient rubber cushion block seated in said socket members, and integral extensions on opposite sides of said block seated in said recesses.

2,594,946

METHOD FOR SEPARATING DIORGANOHALOGENOSILANES FROM MIXTURES OF THE LATTER AND ORGANOTRIHALOGENOSILANES

Glennard R. Lucas, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 4, 1951, Serial No. 204,462
11 Claims. (Cl. 260—448.2)

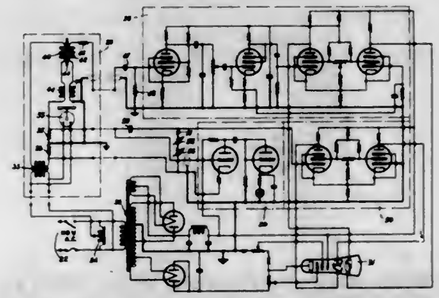
1. The process for obtaining diorganodihalogenosilane containing less mono-organotrihalogenosilane from a mixture of the aforesaid organohalogenosilanes, the organic groups in the aforesaid organohalogenosilanes being hydrocarbon radicals attached directly to silicon by carbon-silicon linkages, which process comprises effecting reaction between the said mixture of organohalogenosilanes and a diorgano diacyloxysilane, the organic groups of the aforesaid acyloxysilane being hydrocarbon radicals attached directly to silicon by carbon-silicon linkages and the acyloxy radical being derived from an acid weaker than hydrochloric acid, and thereafter isolating diorganodihalogenosilane containing less mono-organotrihalogenosilane than was originally present therein.

2,594,947

MAGNETIC TESTING APPARATUS

Thomas E. Lynch, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

Application October 30, 1946, Serial No. 706,635
20 Claims. (Cl. 175—183)



3. An apparatus for measuring the coercive force of magnetic materials comprising: electrical magnetizing means for applying a varying magnetizing field to, and for producing a varying magnetic flux in, the magnetic material to be tested; inductance means responsive to the varying magnetic flux in the magnetic material for producing an electrical signal corresponding to the rate of change of the magnetic flux; means for differentiating said electrical signal; signal tracing means for producing a trace corresponding to the first derivative of the electrical signal with respect to time; trace sweeping means for sweeping the signal trace in proportion to the varying magnetizing field; phase shifting means including means calibrated in coercive force for changing the phase of the trace sweep so as to cause alignment of the swept signal trace inflections and thereby determine the coercive force phase angle between the magnetizing variations and the magnetization produced by them.

2,594,948

ELECTROMECHANICAL TRANSDUCER UNIT

Thomas E. Lynch, Cleveland, Ohio, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio

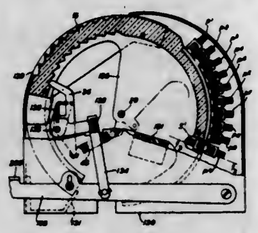
Application October 30, 1947, Serial No. 783,148
14 Claims. (Cl. 179—100.41)



1. An electromechanical transducer unit for use over a given range of frequencies, compris-

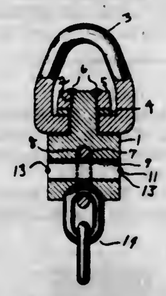
ing, in combination; a housing; a flexing type transducer element having a drive end and an anchor end within and entirely spaced from said housing; mounting resiliently yielding means including resilient material in engagement with substantially the entire surface area of said transducer element and in engagement with said housing and exerting predominantly a stiffness force against said transducer element as the transducer element vibrates at the lower frequencies within said range, said anchor end of said transducer element being free from rigid engagement to said housing whereby the anchor end of said element may vibrate with respect to said housing; and drive means connected to the drive end of said element and extending through said housing.

2,594,949
PRESET TYPE IMPULSE-SENDER
James J. Madden, Woodhaven, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 8, 1949, Serial No. 126,097
5 Claims. (Cl. 179—90)



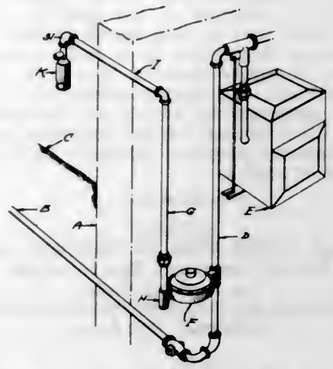
1. In an automatic telephone system using signal arrangements in which each digit of the number dialed is represented by the time elapsing between a start or reference pulse and a stop pulse generated by a pulse transformer, the combination with said system of a dialing switch comprising a number of transformers consisting of primary coils and secondary coils, the primary coils being fixed and the secondary coils being movable, and manually operable means for locating any secondary coil inductively opposite any primary coil whereby the number to be dialed will be preset.

2,594,950
HOIST SWIVEL
Harold B. Madder, Houston, Tex., assignor to O. W. Sanders, Houston, Tex.
Application July 14, 1949, Serial No. 104,657
1 Claim. (Cl. 59—95)



In a chain hoist swivel, a swivel block, the upper end of said block being reduced into cylindrical form and having outside threads on the free end thereof, a cap threaded onto said threaded end and being welded in position, a hoist link embracing said cylindrical portion of said block, a bushing mounted on said cylindrical portion of said block between said hoist link and cap, there being a chain link receiving chamber in said block, said block having a transverse retaining pin chamber bisecting said block and intersecting said link chamber, a retaining pin mounted in said pin chamber and adapted to pass through a chain link, a snap ring mounted on the periphery of said block maintaining said retaining pin in retaining position.

2,594,951
GAS ALARM DEVICE
George Mancini, New York, N. Y.
Application December 16, 1948, Serial No. 65,613
3 Claims. (Cl. 116—70)

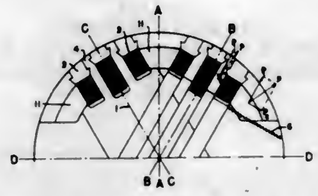


1. In a gas system including a high pressure gas inlet pipe, governor control means connected to the inlet pipe for controlling passage of gas to consuming units in a house, a gas vent connected to the governor control means for venting gas from the inlet pipe to air outside of the house, the improvements which consist in an audible whistle alarm mounted on the gas vent adapted to sound a whistle when gas is escaping through the vent, the alarm including a plastic housing having a gas passage therethrough and having an open free end, the housing having a plurality of ports adjacent to the open free end, a plastic thimble mounted in the housing and having a closed end with gas passage ports adjacent to the closed end, a plastic plate mounted in the thimble having ports in the ends thereof adjacent to the thimble, and valve means for the housing operable under excess gas pressure in the housing for by-passing excess gas from the housing.

2,594,952
TWO-POLE TURBOGENERATOR ROTOR
Andrew Mándi and Francis Ratkovszky, Budapest, Hungary
Application February 18, 1948, Serial No. 9,306
In Hungary December 27, 1941
Section 1, Public Law 690, August 8, 1946
Patent expires December 27, 1961
11 Claims. (Cl. 171—266)

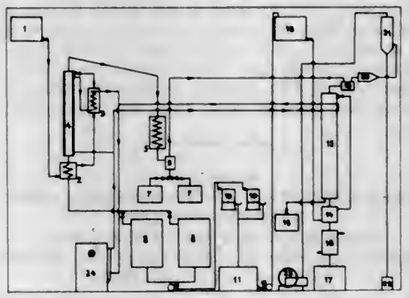
1. A two-pole rotor for turbo-generators, having two field coil systems of mutually crossing symmetry planes and grooves assembled for accommodating coils to groove formations of oblong type, the grooves for at least one system being milled out from the rotor body sides and ends

perpendicularly to the appertaining coil axis for the respective coil systems in consecutive parallel planes, the end turns of the individual coil



systems being situated at the rotor ends in two layers above each other in proper end groove portions of the respective groove oblongs.

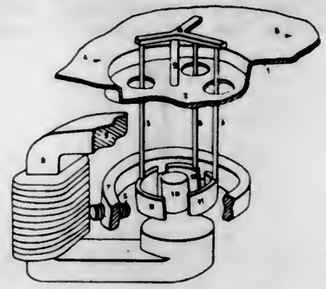
2,594,953
METHOD AND APPARATUS FOR CONTINUOUS REFINING AND SIMULTANEOUS DEODORIZING RAW FATS AND OILS BY DISTILLING FREE ALIPHATIC ACIDS THEREFROM
Vojtěch Mareš, Prague, Czechoslovakia
Application October 28, 1948, Serial No. 56,934
In Czechoslovakia July 20, 1948
11 Claims. (Cl. 260—428)



1. A method of continuously refining and simultaneously deodorizing raw fatty materials of the class consisting of fats and oils containing non-fatty matter and free aliphatic acids, which comprises heating said raw fatty material to a temperature of 200° to 300° C. under vacuum until all non-fatty matter is substantially precipitated and a major proportion of free aliphatic acids volatilized; partially and rapidly cooling said fatty material; adding an adsorptive earth thereto; filtering off said adsorptive earth; and subjecting said fatty material to distillation under vacuum at a temperature of 200° to 250° C. in the presence of steam to remove substantially all the residual free aliphatic acids from said fatty material.

2,594,954
HIGH-FREQUENCY AMPLIFYING SYSTEM
Robert Pierre Marié, Neuilly, France, assignor to Societe francaise Sadir-Carpentier, Paris, France, a corporation of France
Application September 28, 1949, Serial No. 118,375
In France October 11, 1948
11 Claims. (Cl. 179—171)

1. A system for amplifying and modulating the energy of high frequency electromagnetic waves comprising directional coupling means, means for feeding the waves to be amplified to said coupling means, a multiple anode magnetron having the anodes thereof connected with said coupling means, the electronic beam of said magnetron forming a negative impedance for the waves transmitted to it and means associated with the



coupling means for the transmission of the amplified waves reflected by the magnetron towards the coupling means.

2,594,955
MAGNETIC HOLDER FOR PENCILS
Albert A. Markowitz, Bronx, N. Y.
Application August 22, 1950, Serial No. 180,733
3 Claims. (Cl. 120—84)



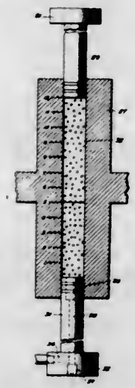
1. A magnetic holder for a pencil or the like, comprising an elongated body of non-magnetic material having an axially extended tunnel adapted to have the pencil extended therethrough, said body having a flat outer face, a bar magnet mounted on said flat face, said body being made of rigid material, and means within said tunnel to frictionally grip the pencil holding said body in a fixed position thereon, said means comprising a tube of resilient material fixedly mounted within said tunnel to have the pencil pass therethrough, and longitudinally extended flexible corrugations formed on the inner peripheral wall of said tube adapted to frictionally grip the pencil.

2,594,956
METHOD OF COMPACTING PULVERIZED MATERIALS AND PRODUCT RESULTING THEREFROM
Donald E. Marshall, Summit, N. J., assignor to Micro Processing Equipment, Inc., Des Plaines, Ill., a corporation of Illinois
Application November 23, 1949, Serial No. 129,093
21 Claims. (Cl. 18—55)

1. The method of compacting pulverized solid material, which comprises, introducing a charge of said material into a die chamber having an internal volume substantially greater than the normal volume of said charge when the particles of said charge are loosely in contact with each other, dispersing the particles of said charge in a gas in said chamber, and while said particles are thus dispersed suddenly decreasing the internal volume of said chamber to less than said normal volume to simultaneously compress said gas and press said particles together.

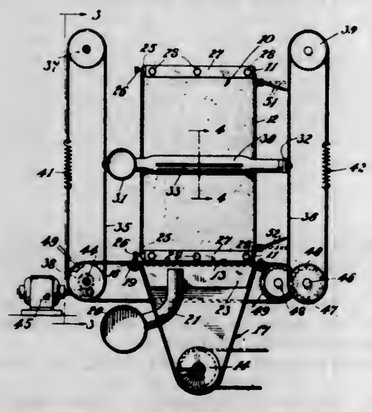
15. An aerated shaped detergent body comprising: pulverized detergent material having a solid particle size on the order of less than 6

microns compacted into cohesion, but with air filled interstitial pores substantially uniformly distributed throughout the body, said body being obtained by charging a predetermined amount of the pulverized detergent material into a die chamber along with sufficient air to thoroughly



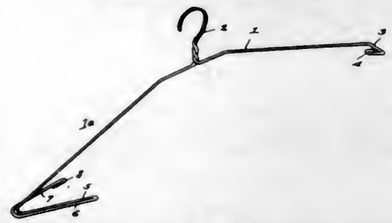
fluidize the charge, and suddenly decreasing the volume of the die chamber with a speed which develops a high interstitial resistance to the flow of the fluidizing air within the charge and precludes any appreciable loss of fluidizing air from the die chamber.

2,594,957
MULTIPLE UNIT SELF-CLEANING DUST FILTER
William G. Martens, Jr., Chatham, N. J., assignor to Pulverizing Machinery Company, Summit, N. J., a corporation of New Jersey
Application October 12, 1949, Serial No. 120,980
7 Claims. (Cl. 183—61)



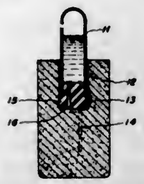
1. A self-cleaning dust filter of the type having a cleaning-air tube adapted to be reciprocated to and fro over the surface of a filter medium, comprising two parallel, spaced, vertically arranged, rectangular frames, two sheets of flexible filter material stretched under tension across the adjacent sides of such frames, a cleaning-air tube between and in contact with both of such sheets, this tube being slotted on both sides so that air supplied to such tube cleans both sheets simultaneously, means for supplying dust-laden gases to the side of such sheets not in contact with said cleaning-air tube at a pressure greater than that between the sheets, and means for reciprocating said cleaning-air tube to and fro over said sheets.

2,594,958
GARMENT HANGER
Andrea P. Masciana, Washington, D. C.
Application April 8, 1948, Serial No. 19,847
1 Claim. (Cl. 223—88)



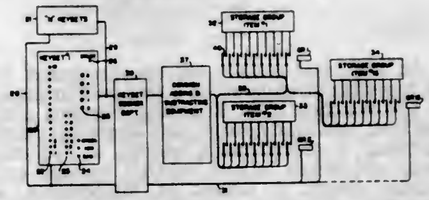
A device made from a single piece of wire for supporting pants by the belt loops, comprising a hook, a first arm extending outwardly and downwardly from one side of the hook, the end portion of the first arm having a first section bent at an angle to one side of the first arm and back towards the hook, a second section integral with the first section and bent back along the first section and around the junction of the arm and the first section and at an angle to the other side of the first arm and back towards the hook, and a second arm extending outwardly and downwardly from the other side of the hook, the end portion of the second arm being bent at an angle to the second arm and back towards the hook.

2,594,959
HAIR REMOVER WITH CENTRAL FEED OF SKIN LOTION
Aaron Masters, Perth Amboy, N. J.
Application July 19, 1951, Serial No. 237,501
9 Claims. (Cl. 128—260)



1. A device of the character described comprising in combination an abrasive element having a relatively large cylindrical bore extending inwardly from one end thereof and a relatively small passageway leading from the inner end of said bore from a point located eccentric to the longitudinal axis thereof to the exterior surface of the abrasive element at a region medially of its ends, a cylindrical container for liquid skin lotion insertable in the bore in the abrasive element, said container being longer than the depth of the bore in the abrasive element so that a portion of the container projects, and a removable cork element for closing the open end of the container, said cork element having marginal portions fitting the opening in the abrasive element so as to form a liquid seal therewith, and said cork element also having a liquid passageway therethrough, and means including the container for rotating the cork angularly relative to the abrasive element whereby to establish communication between the eccentrically located passageway in the abrasive element and the passageway in the cork for the flow of the liquid lotion from within the container and through the abrasive element to the exterior working surface of the abrasive element.

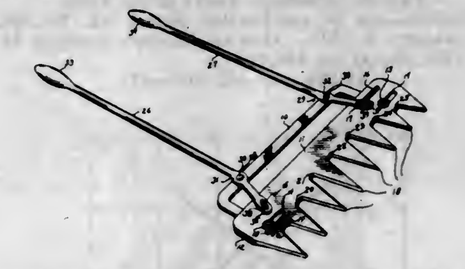
2,594,960
ELECTRICAL STORAGE AND SIGNALING SYSTEM
Harold F. May, Valley Stream, N. Y., assignor to The Teleregister Corporation, New York, N. Y., a corporation of Delaware
Application December 31, 1946, Serial No. 719,555
14 Claims. (Cl. 235—61)



1. A reservation system for aircraft and other conveyances comprising a plurality of groups of electro-responsive signal storage devices, said groups respectively being adapted to store signals representative of the number of seats currently available for different flights or trips, means for reading at any of a plurality of distant stations the number currently stored on any of said storage groups comprising indicating means at each station for displaying said number, means at each station comprising manually operable switch members for selecting a desired storage group and for initiating a request for said information, line conductors and electrical seeker and relay apparatus responsive to the actuation of said switch members for operatively connecting the selected group of storage devices to said indicating means of a calling station, said conductors and relay apparatus including means automatically operable for energizing said indicating means to display the number currently stored on the selected group of storage devices, said stations each having other manually operable switch members for making reservations and for canceling reservations previously made in regard to any of said flights or trips, means including electro-responsive computing equipment common to said stations and said plurality of signal storage groups and controlled by the operation of said selecting and other switch members of a calling station for currently changing the number stored on the selected group of storage devices in accordance with the number of reservations made or canceled by the calling station, and means including said seeker apparatus for preventing the connection of the computing equipment to more than one calling station at any one time.

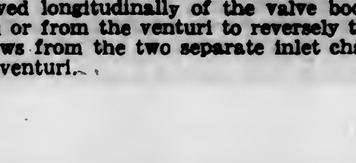
2,594,961
HEDGE AND SHRUBBERY TRIMMER
Jack H. Maylen, Bartlesville, Okla.
Application January 5, 1950, Serial No. 136,921
4 Claims. (Cl. 30—211)

1. In a device of the class described, a frame, an upper blade plate slidably secured to said frame and having a plurality of V-shaped cutting teeth along its forward edge; said teeth having their points equally spaced and the edges of which slant at the same angle from their respective vertical axis and are of varying lengths, a lower blade plate slidably secured to said frame and having teeth like those of the said upper blade



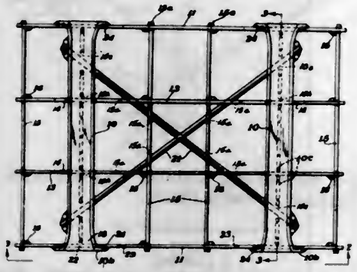
plate, and means for slidably moving said blade plates relative to each other.

2,594,962
ASPIRATING TWO-WAY CONTROL VALVE
Bertrand N. McDonald, Aurora, Ill., assignor to The Babcock & Wilcox Company, New York, N. Y., a corporation of New Jersey
Application April 30, 1948, Serial No. 24,143
2 Claims. (Cl. 230—112)



1. In a combined mixing and aspirating valve construction, a tubular valve body having a Venturi fluid mixing section and associated wall portions, a hollow tubular valve member closed at one end and having its open end arranged to contact the wall of the contracting entrance to the Venturi section when the valve member is moved in one of its directions of movement, portions of the valve body having aligned openings and acting as slidable mounting means slidably receiving the valve member and holding it in position coaxial with the venturi, said last mentioned portions coacting with wall portions of the valve body to form two separated inlet chambers normally subjected to different fluid pressures, the inlet chamber nearest the venturi being in direct communication with the inlet of the venturi when the valve member is moved in one of its directions of movement, the interior of the valve member being in free communication with the other inlet chamber through openings in a wall part of the valve member and the interior of the valve member also being in free communication with the Venturi mixing section, said last mentioned openings also extending longitudinally of the valve member so as to reduce the flow of fluid through the last mentioned inlet chamber to the Venturi mixing section when the valve member is moved to increase the flow from the remaining inlet chamber to the venturi, corresponding ends of adjacent longitudinally extended openings being adjacent said slidable mounting means when the valve member is at one end of its path of movement and substantial parts of the openings being shrouded or rendered inoperative by the mounting means when the valve member has reached a position intermediate its path of movement, and means whereby the valve member may be moved longitudinally of the valve body and toward or from the venturi to reversely throttle the flows from the two separate inlet chambers to the venturi.

2,594,963
ANNEALING TRAY
Paul S. Menough, Rocky River, Ohio
Continuation of application Serial No. 721,106, January 9, 1947. This application January 30, 1951, Serial No. 208,460
12 Claims. (Cl. 263—47)



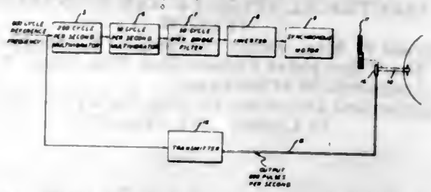
9. An annealing tray comprising a rigid, shape-maintaining, generally rectangular frame including parallel members having elongated holes therethrough, transverse members disposed at right angles to said parallel members, projecting through said elongated holes and having notches in their edges to receive said parallel members, and load bars extending through elongated holes in said parallel members and having notches in their edges to receive the latter members.

2,594,964
SLIDABLE BAR RATCHET WRENCH
Albert E. Meyers, Bridgeport, Conn., assignor of one-half to Walter F. Ames, Jr., South Weymouth, Mass.
Application June 28, 1949, Serial No. 101,830
1 Claim. (Cl. 81—57)



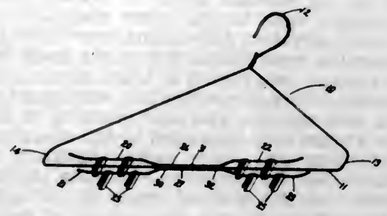
A slidable bar ratchet wrench apparatus of the kind described, comprising a frame, means supporting the bar so that it may make longitudinal reciprocated movements thru said frame, ratchet teeth on one side of the bar, and a longitudinal groove opposite thereto and lengthwise of said bar, a roll mounted in said frame in supporting contact with the grooved side of the bar, a pinion having teeth in normal engagement with said ratchet teeth, a pawl to hold said pinion against reverse rotation, said pinion having an axle extending thru the frame, said axle being formed with opposite ends adapted to engage a socket wrench, one of said ends rotating the socket wrench in clockwise direction and the opposite end in contra-clockwise direction, the support for said reciprocated bar and supporting roll enabling the bar to be rocked on the roll to disengage the teeth of said bar and pinion, and yielding means engaging the groove in said bar to limit its sliding movement and to normally hold the bar teeth and pinion in operative engagement.

2,594,965
RADIO PULSE TRANSMITTER WITH ROTATING ANTENNA
John K. McKendry, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of War
Application February 19, 1945, Serial No. 578,770
3 Claims. (Cl. 250—17)



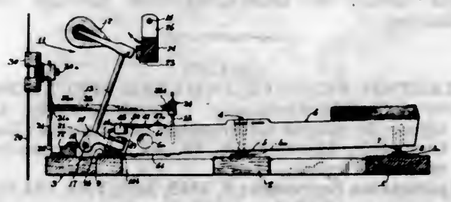
1. An electrical circuit for synchronizing the pulse repetition frequency of a transmitter means with the rotation of a radiating element associated with said transmitter, said electrical circuit comprising a synchronous motor, a radiating element connected to and rotated by said synchronous motor, a means of introducing an alternating reference voltage, a transmitting means connected to said radiating element for producing pulses of radio frequency energy for radiation by said radiating element, the pulse repetition frequency of said transmitting means being synchronized by said input reference voltage, means for subdividing the frequency of said input reference voltage, said means comprising two multivibrators and a Wien bridge filter connected in series, and an inverter means for supplying said subdivided reference voltage to said synchronous motor.

2,594,966
CLOTHES HANGER
James R. McKinney, Cleveland, Ohio
Application August 31, 1946, Serial No. 694,263
2 Claims. (Cl. 223—88)



1. In a clothes hanger having a hook for suspending the hanger and a horizontal rod connected to said hook by a pair of supports connected to opposite ends of said horizontal rod forming two coat supporting portions, said horizontal rod extending substantially straight from one of said supports to the other, and bar means comprising a center portion and two substantially straight end portions or arms, said center portion of said bar means being connected to the said horizontal rod substantially at the center thereof and said arms being spaced away from and to the side of said horizontal rod and lying substantially parallel thereto forming a plurality of arms for receiving and holding trouser belt loops.

2,594,967
APPARATUS FOR PRODUCTION OF MUSIC
Benjamin F. Miessner, Harding Township, Morris County, N. J., assignor to Miessner Inventions, Inc., Harding Township, Morris County, N. J., a corporation of New Jersey
Application November 5, 1946, Serial No. 707,879
17 Claims. (Cl. 84—240)



1. In an action, for exciting the vibrator of a musical instrument, including a vibrator-striking hammer and actuating means therefor against which the hammer may rebound after striking the vibrator: an anti-rebound device for delivering to the hammer an impact opposing a rebound of the hammer from the actuating means, said device comprising a mass moved by said actuating means coincidentally with at least the final portion of movement of the hammer by the actuating means, and moved by its own inertia after the hammer strikes the vibrator; and a spring, deflected by said mass at least during said last-mentioned movement, and supporting said mass in the action.

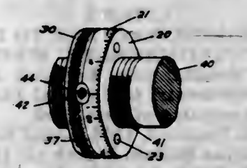
2,594,968
CHICKEN DRINKING FOUNTAIN
Julian Daniel Miller, Denton, Md., assignor to himself and Helen Peers Miller, Denton, Md., as joint tenants with right of survivorship
Application July 1, 1949, Serial No. 102,481
1 Claim. (Cl. 119—72.5)



The combination of a chicken drinking fountain including weighted water valves set on opposite sides of a water pipe, said water valves being mounted in the lower circumference of the pipe and spaced apart by an angle of approximately 70 degrees, said valves consisting of a threaded body enclosing a valve stem with an elongated cylindrical weighted portion having a seat cooperating and mating with a lower restricted opening in the nozzle body, a protruding neck portion of reduced size extending from the seat of the weighted portion and terminating in a rounded end.

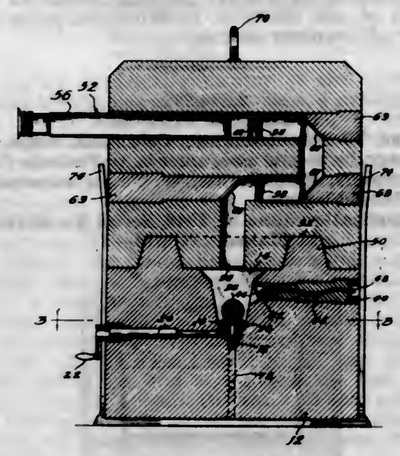
2,594,969
OFFSET LOCKING ADJUSTMENT COLLAR
John N. Miller and Emil Gairing, Detroit, Mich.
Application May 22, 1950, Serial No. 163,504
5 Claims. (Cl. 151—15)

1. A locking collar comprising annular front and rear sections disposed in side by side relation to each other and having centrally located shaft-receiving openings, fasteners carried by one section and loosely engaged with the other section and mounting the said sections for movement diametrically of each other into and out of position for gripping a shaft about which the collar is mounted, a socket extending radially of said collar in the direction in which the sections are moved into and out of a shaft-gripping position and formed by registering recesses in confronting inner side faces of the said sections, one recess having its wall threaded and the other recess being unthreaded, inner end portions of said recesses being undercut and forming an enlarged inner end portion for the socket, the undercut portion of one recess being of greater depth than the undercut portion of the other recess, and a screw in said socket having threaded



engagement with the threaded recess and being freely rotatable in the unthreaded recess, and a head about the inner end of said screw resting upon the bottom of the unthreaded recess and projecting radially from the screw and for a portion of its circumference fitting snugly in the shallow undercut inner end portion of the unthreaded recess and for the remainder of its circumference fitting into the deep undercut portion of the threaded recess whereby the head will cause movement of the sections relative to each other when the screw is turned in the socket.

2,594,970
VIEWING DEVICE FOR RADIOACTIVE MATERIALS
George S. Monk, Chicago, Ill., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application December 31, 1946, Serial No. 719,551
4 Claims. (Cl. 250—108)



1. A viewing box for radioactive materials comprising, in combination, a bottom portion comprising a block of lead having in the top thereof a substantially rectangular recessed cavity having sides sloping inwardly, two spaced parallel rollers longitudinal of said cavity at the bottom thereof, a wheel mounted parallel with said rollers and having a flat portion on the perimeter thereof, a portion of the perimeter being between said rollers, the rounded portion of said wheel having a friction shoe thereon, ex-

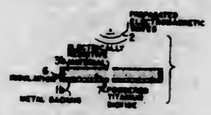
ternally operated means for rotating said rollers and externally operated means for rotating said wheel, and a removable top portion comprising a block of lead adapted to be placed on said bottom portion and having a periscope therethrough adapted for shielded external viewing of a material contained in said cavity, said periscope comprising an objective portion enclosed in said top portion by water-tight windows and an eye-piece portion adapted to be removed from said top portion.

2,594,971

BARRIER NONREFLECTANT TO INCIDENT ELECTROMAGNETIC WAVES

Eric Balliol Moullin, Sale, England, assignor, by mesne assignments, to General Electric Company, a corporation of New York

Application March 9, 1945, Serial No. 581,919
In Great Britain March 12, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 12, 1963
1 Claim. (Cl. 343—18)



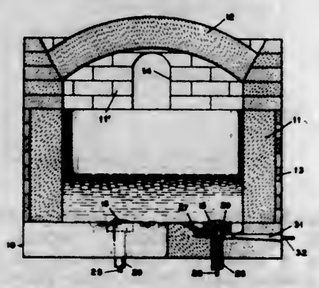
A structure substantially non-reflecting to electromagnetic waves of predetermined frequency, comprising a backing member having a metal surface, a layer of titanium dioxide in powder form superimposed upon said metal surface and of thickness substantially equal to the quotient of one-quarter of a wavelength of said electromagnetic waves in space and the square root of the dielectric constant of titanium dioxide for the wavelength of said electromagnetic waves, together with a facing member of electrically-resistive material having electric resistance of the order of 120π ohms per unit length of unit width of said material, superimposed upon said layer of titanium dioxide.

2,594,972

ELECTRIC FURNACE

George T. Muehlenkamp, Columbus, Ohio, assignor, by mesne assignments, to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia

Application June 15, 1949, Serial No. 99,200
17 Claims. (Cl. 13—6)



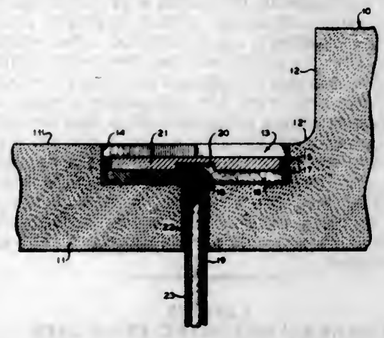
14. A furnace for use in the production of glass comprising a receptacle having bottom and side walls, a plurality of electrodes fixed in said bottom, the upper surface of said electrodes being curved to prevent the collection of precipitated lead thereon, conductors secured to said electrodes, means for cooling a portion of said electrodes, a well formed in said bottom and surrounding each electrode, a curved wall connecting said well with said bottom whereby a concentration of heat is prevented, a drainage channel communicating with each well and extending through an outer wall of said receptacle whereby molten material in said wells may be drained off and means for controlling flow through said channel.

2,594,973

ELECTRIC FURNACE AND LEAD ELECTRODE

George T. Muehlenkamp, Columbus, Ohio, assignor, by mesne assignments, to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia

Application September 9, 1949, Serial No. 114,733
3 Claims. (Cl. 13—6)



3. Electric furnace construction for use in the melting and in the manufacture of glass comprising in combination a tank having an inner wall presenting a substantially continuous uninterrupted surface whereby the glass is maintained substantially homogeneous and at substantially the same temperature throughout, said tank being composed of heat resistant material, said tank having in its bottom a plurality of wells, a bore in the bottom of each well having communication with the exterior of said tank and disposed at regular intervals about the axis thereof, a composite electrode in each well having its entire upper surface disposed below the upper surface of the bottom of said tank, said electrode comprising a relatively large shallow molybdenum container, a body of lead substantially filling said container, a conductor disposed in said bore and having a threaded connection with said container adjacent its central portion, said conductor being smaller in cross-section than said bore thus providing an insulating space therebetween, and an axial passage in said conductor for conducting a cooling medium in heat exchange relation therewith.

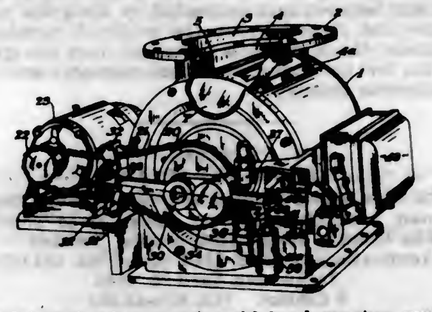
2,594,974

SELF-CLEARING STAR FEEDER

Lauritz Emil Mylting, Philadelphia, Pa., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania

Application February 17, 1948, Serial No. 8,840
6 Claims. (Cl. 241—36)

1. A device for feeding solids comprising a rotary valve including a member through which such solids may flow and a rotor engaging said member and having radial compartments open at the periphery of the rotor to receive solids passing through said member and move them beyond said member, means including a reversible motor for rotating said rotor, means including an electric switch for reversing said motor, and motor load-sensing means for actuating the motor reversing means when the load exceeds a



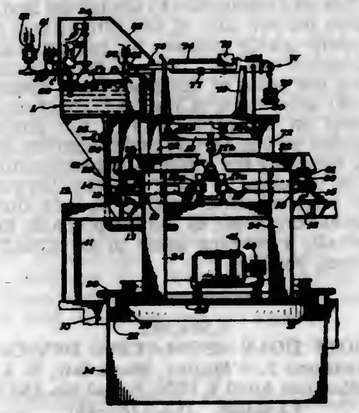
predetermined amount, said load-sensing means comprising a pivoted lever engageable with said switch and means actuated when rotation of said valve is impeded for pivoting said lever.

2,594,975

MIXING APPARATUS

Lauritz Emil Mylting, Merchantville, N. J., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 24, 1949, Serial No. 95,047
12 Claims. (Cl. 259—18)



1. Apparatus for mixing dust and water for disposal purposes, comprising a mixing vat, a scale beam and means suspending said vat therefrom, agitator means for said vat, means for admitting dust to said vat, a water tank, means to fill the tank with a predetermined quantity of water, a conduit to conduct water from the tank to the mixing vat, a valve in said conduit, a float suspended from said scale beam and buoyant in the water in said tank, and control means for said water release valve actuated by the position of said scale beam and float.

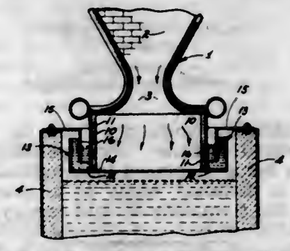
2,594,976

SEAL FOR ASH HOPPERS

Lauritz E. Mylting, Merchantville, N. J., assignor to The Allen-Sherman-Hoff Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 28, 1950, Serial No. 158,816
5 Claims. (Cl. 110—165)

1. In apparatus of the class described including a fuel burning furnace having an ash discharge opening and a hopper positioned to receive ashes from said opening, the combination of a wall extending down from said furnace around said opening, a wall extending outward from the lower portion of said depending wall and then extending upwardly to form therewith an endless open-top



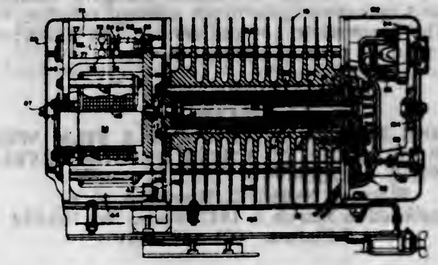
trough for liquid, and a wall extending inwardly from the hopper walls and downwardly into said trough to seal the space between the trough and hopper wall against the escape of gas therebetween.

2,594,977

REGULATOR

William G. Neild, Fairlawn, N. J., assignor to Bendix Aviation Corporation, Teterboro, N. J., a corporation of Delaware

Original application April 1, 1948, Serial No. 18,433. Divided and this application October 13, 1949, Serial No. 121,115
4 Claims. (Cl. 175—335)



1. In an electrical regulator of the type including a variable resistance means, a housing for said means, an electromagnet, an armature movably mounted in relation to said electromagnet, means operatively connecting the armature to the variable electrical resistance means; the improvement comprising a bracket carried by said housing, a calibrating resistor for varying the setting of said electromagnet, said calibrating resistor supported by said bracket, an adjustable member for varying said calibrating resistor, a cover cap fastened to said bracket and enclosing said calibrating resistor and bracket so as to shield said adjustable member from accidental displacement, said cover cap fitting tightly about one end of the housing and having an opening formed therein, and said adjustable member having a cleft portion accessible for manual adjustment through said opening in the cover cap.

2,594,978

WAVE GUIDE ATTENUATOR

Richard B. Nelson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 23, 1943, Serial No. 491,389
6 Claims. (Cl. 178—44)

1. An attenuator for high frequency energy in a dielectric wave guide system of the rec-

tangular hollow-pipe type comprising a pair of strips of resistance material extending longitudinally along said guide, each of said strips having its ends attached to the inner surface of an opposite wall of said guide and its center



portion extending inwardly from its respective wall a desired distance, corresponding ends of said strips being displaced longitudinally in said guide by a distance equal to a quarter wave length at the frequency of said energy.

2,594,979

RESINOUS COMPOSITIONS AND THEIR USE

John D. Nelson, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 19, 1949, Serial No. 71,769

5 Claims. (Cl. 260—17.2)

1. A room temperature setting adhesive comprising, by weight, (1) from 30 to 80 per cent of the resinous product of reaction between (*a*) epichlorohydrin and (*b*) bis-(4-hydroxyphenyl) dimethylmethane, and (2) from 20 to 70 per cent methylene bis-(4-phenyl isocyanate), there being incorporated in the aforesaid adhesive composition a cellulosic filler in an amount ranging, by weight, from 40 to 100 per cent of the weight of the resinous product defined in (1).

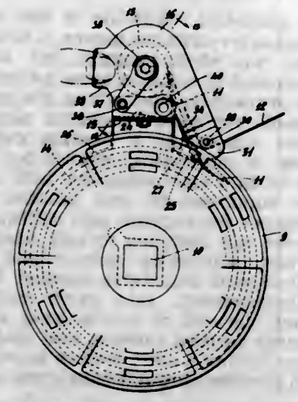
2,594,980

MEANS FOR TRANSFERRING A FILM WEB FROM A ROLL TO A REEL OF FILM DEVELOPING MEANS

Herman Neuwirth, Brooklyn, N. Y.

Application March 5, 1947, Serial No. 732,582

5 Claims. (Cl. 242—55)



1. In means for transferring a photographic film web from a spool to a developing reel, a bracket including a base portion having end members arranged to rotatably support a spool of photographic film web and the front and rear sections of the base portions flanged to extend in a direction opposite to the direction in which the end members extend and adapted to support the bracket on the reel, guide portions extending from the end members towards the front flanged section, resilient members supported by the front flanged section of the base portion and extended between the guide portions and end members to engage the under-surface of the film web on the spool, and a member extending transversely between and supported by the guide portions and spaced above the resilient members, whereby the film web is unwound from the spool to the reel between the resilient members and the transverse member.

2,594,981

TROLLING SPOON

John Alex Ingvar Öhlund and Sven Gunnar Bergman, Linkoping, Sweden, assignors to Torsten Elis Ullman, Helgo, Helgevarma, Sweden

Application April 22, 1946, Serial No. 664,092

In Sweden April 25, 1945

3 Claims. (Cl. 43—42.46)



1. An artificial bait comprising a body, pitched blades mounted on the outside of said body, means for varying the pitch of said blades including a reciprocable member extending into said body and adapted at an exposed end to receive a line, said pitch varying means including a four tooth pinion drivably connected to the blades and means positioned on one side of the pinion and carried by the reciprocable member for rotating said pinion successive quarter turns in one direction for reversing the pitch of the blades and thereby the rotational movement of the bait, coacting means positioned on the other side of the pinion and also carried by the reciprocable member for frictionally engaging the pinion and maintaining said blades in temporarily fixed position between the quarter turn rotation thereof in one direction, and means connected to the reciprocable member for normally returning same to an initially predetermined position.

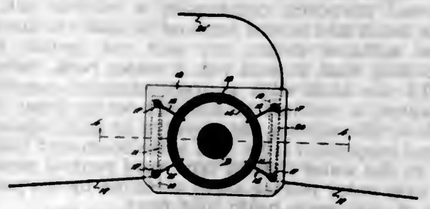
2,594,982

GOLF HOLE SIMULATING DEVICE

Anthony J. O'Malley, Montclair, N. J.

Application April 4, 1950, Serial No. 153,925

4 Claims. (Cl. 273—36)



1. A putting practice device for golfers comprising a pair of laterally spaced apart upstanding side wall structures for deposit upon a playing surface whereby to define a fore and aft extending through passage therebetween, a top plate affixed to and bridging between the tops of said wall structures, said top plate having an opening above said passage, an upwardly movable brake ring within said opening, said brake ring substantially corresponding in diameter to the diameter of a practical green cup whereby to define a target cup area simulating the latter, and resilient means affixed to and extending over the upper surface of the top plate for supporting the brake ring in a normal initial lowermost position wherein its bottom edge is spaced above the playing surface at a distance somewhat less than the diametrical size of a golf ball, said brake ring being adapted to yield upwardly upon the passing of a moving golf ball thereunder.

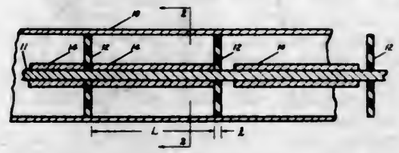
2,594,983

TRANSMISSION LINE

Marshall C. Pease, Boston, Mass., assignor to the United States of America as represented by the Secretary of War

Application August 30, 1945, Serial No. 613,612

3 Claims. (Cl. 178—44)



1. In a coaxial transmission line having an inner conductor concentric with an outer conductor, dielectric support means disposed between said inner and outer conductors at spaced intervals along said inner conductors, said dielectric support means serving to maintain said inner conductor in concentric relationship with said outer conductor, the impedance of said line at each of said dielectric support means differing from that of the unsupported remainder of said line, and a plurality of conductive section means disposed between said dielectric support means and slidably in contact with one of said conductors, said section means being concentric with said conductors, each of said conductive section means having a diameter such that the impedance of said line at all points between said dielectric support means is equal to the impedance of said line at said dielectric support means, resulting in a coaxial line having a uniform characteristic impedance despite the presence of said dielectric support means.

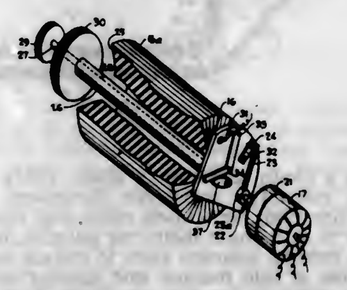
2,594,984

THERMOSTATIC CONTROLLER

Carl J. Penther, Oakland, and William B. Milligan, Albany, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application April 9, 1949, Serial No. 86,542

2 Claims. (Cl. 201—48)



2. A rheostat control system for thermostat heaters having on and off cycles of operation, said control system comprising a reversible motor adapted to rotate in opposite directions during said on and off cycles of operation, an actuator element driven in opposite directions by the rotation of said reversible motor, a rheostat winding, a movable contact element slidably mounted on said rheostat winding to regulate the effective resistance thereof, and coupling means for engaging said actuator element with said movable contact element, said coupling means comprising spaced stop means carried by one of said elements, the spacing between said stop means determining the extent of the cycle portion during which the contact element is moved by the actuator element.

2,594,985

FIRE EXTINGUISHING FOAM STABILIZER

Joseph M. Perri, Philadelphia, Pa., assignor to National Foam System, Inc., Philadelphia, Pa., a corporation of Delaware

No Drawing. Application September 9, 1948, Serial No. 48,529

3 Claims. (Cl. 252—6.5)

1. A stabilizer for a fire-extinguishing foam obtained by combining an aqueous solution of aluminum sulphate with an aqueous solution of bicarbonate of soda, said stabilizer consisting of an alkanol amino soap colloidally dispersed by lecithin in one of said foam-forming solutions.

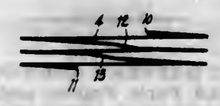
2,594,986

PISTON RING

Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.

Application February 11, 1949, Serial No. 75,839

8 Claims. (Cl. 309—45)



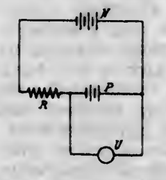
1. A piston ring assembly comprising a resilient expansible side ring member and a split expansible spacer member supportingly engaging said side ring member, said spacer member having a lower wall to be supportingly engaged by the lower wall of a piston ring groove, said spacer member having alternate spacer and drainage reaches, said side ring member having an upper wall to be retainingly engaged by the upper wall of a piston ring groove and having an outer peripheral edge to tensioningly engage a cylinder wall, said side ring member comprising a strip of ribbon steel of approximately .013 of an inch in thickness coiled edgewise into three substantially complete convolutions with the ends thereof circumferentially spaced and with a kinked portion intermediate said ends when the side ring member is in assembled position in a piston ring groove, the strip being coiled edgewise with the plane of the convolutions disposed at substantially right angles to the axis of the ring member, said three convolutions of said side ring member constituting the sole means for tensioning the cylinder wall engaging edge of the side ring member against the cylinder wall, said ring element when in assembled position in the ring groove being integrally continuous from end to end thereof, and having its three convolutions in abutting relation throughout their lengths and having the kinked portion thereof in its substantial entirety disposed between said spaced ends.

2,594,987
PISTON RING ASSEMBLY AND ELEMENTS THEREOF
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application April 30, 1951, Serial No. 223,740
9 Claims. (Cl. 309—45)



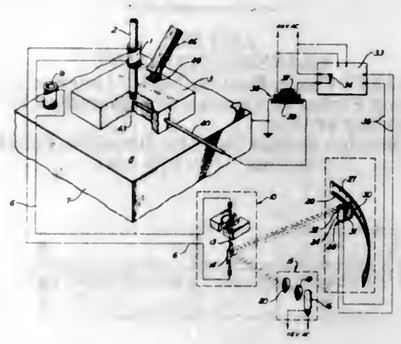
2. A piston ring assembly comprising an annular split expansible carrier element of outwardly facing channel section formed of sheet stock having spaced intermediate portions of the web thereof disposed outwardly between the flanges with their ends in spaced relation to the flanges and coacting therewith to provide axially spaced ring element receiving grooves, the portions of the web between the spacer elements and the flanges constituting the bottoms of the grooves, and thin annular expansible cylinder wall engaging elements disposed radially edgewise in said grooves in said carrier element in bridging relation to the split of the carrier element, the said flanges coacting with the side walls of the piston ring groove in which the assembly is installed, each cylinder wall engaging element having an offset end disposed in thrust sustaining engagement with one of the said spacer members whereby a snubbing action results as the ring assembly contracts and expands within a coacting cylinder wall.

2,594,988
PRIMARY BATTERY AND CONSUMER
Fernand Portail, Paris, France, assignor to Compagnie Industrielle des Piles Electriques C. I. P. E. L., Neuilly-sur-Seine, France, a corporation of France
Application December 6, 1949, Serial No. 131,384
In France January 14, 1949
4 Claims. (Cl. 320—3)



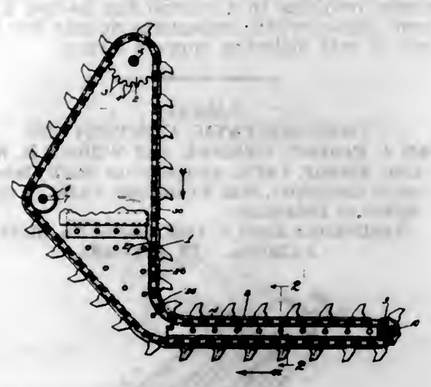
4. In combination: three cells having an alkaline electrolyte and an E. M. F. of 1.4 volts each; a resistance of approximately 5 ohms connected in series to said three cells having an alkaline electrolyte; two cells having an electrolyte containing sal ammoniac and an E. M. F. of 1.6 volts each; and a consumer of electrical energy taking a continuous load of about 0.02 amp. and a peak load of 1.5 amp. at 3 minutes per hour; the series connection of said three cells having an alkaline electrolyte and said resistance, said two cells having an electrolyte containing sal ammoniac, and said consumer being connected in parallel to one another.

2,594,989
MAGNETIC CONTOURING SYSTEM
Wilson M. Powell, Berkeley, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application September 10, 1948, Serial No. 48,747
16 Claims. (Cl. 175—183)



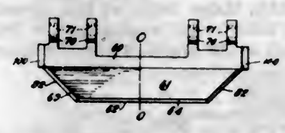
1. A method of contouring the flux intensity emanating from a magnetic surface which comprises ascertaining continuously the flux intensity at contiguous points in a plane spaced from said surface and simultaneously perforating a thin record surface disposed between said plane and said magnetic surface in accordance with such points of equal flux density as are encountered.

2,594,990
CRIBBER CHAIN
Harry W. Protseller, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 16, 1946, Serial No. 697,308
5 Claims. (Cl. 37—191)



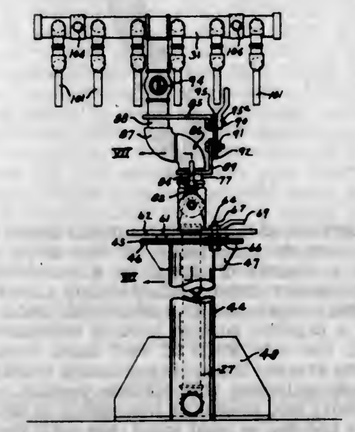
1. In a chain assembly, a chain guide having flanges extending outwardly therefrom in opposite directions, an endless chain and means for driving it, said chain including parallel, laterally spaced strands adapted each to engage and ride along one of said flanges, and spacing and connecting elements extending between said strands and spanning said guide, said connecting elements including tool portions outwardly extending from the chain.

2,594,991
CRIBBER CHAIN EXCAVATING ELEMENT
Harry W. Protzeller, Milwaukee, Wis., assignor to Nordberg Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 16, 1946, Serial No. 697,309
5 Claims. (Cl. 37—191)



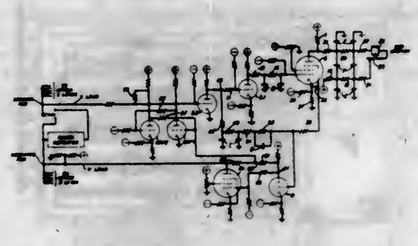
1. As a new article of manufacture, an integral digging flight adapted for use in an excavating chain, said flight including a transversely extending body portion with cutting edges at opposite ends thereof, said body portion having chain receiving lugs extending from one face thereof, said lugs having laterally spaced pintle receiving apertures spaced from said face of said body portion a distance less than the distance between said apertures, said apertures being spaced substantially equidistant from said body portion and the outer edge of said lug, and a plurality of transversely spaced upturned picks extending from the opposite face of said body portion, the base of said picks being spaced from said one face of said body portion a distance less than that between the apertures in said lugs, the outer edges of said picks being spaced inwardly from the cutting edges on said body portion.

2,594,992
PRESSURE SPRAY APPARATUS
John P. Quarles, Huntington, W. Va.
Application January 10, 1950, Serial No. 137,720
7 Claims. (Cl. 299—41)



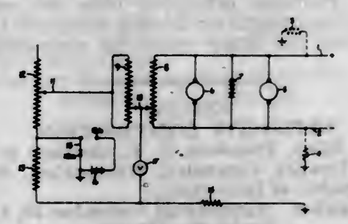
6. In mobile spray apparatus adapted for mounting on a railroad vehicle, a substantially vertical conduit, means supplying liquid under pressure to said conduit, a manifold, a plurality of spray nozzles communicating with said manifold and rigidly attached thereto, a plurality of freely rotatable swivel joints between the vertical conduit and said manifold supporting the manifold for rotation, tilting and lowering relative to the horizontal position thereof, and manually operated means on the manifold for freely rotating all of the swivel joints singly and collectively.

2,594,993
TELEGRAPH HUB ELECTRONIC LOOP REPEATER CIRCUIT
Wilton T. Rea, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 25, 1949, Serial No. 123,366
12 Claims. (Cl. 178—73)



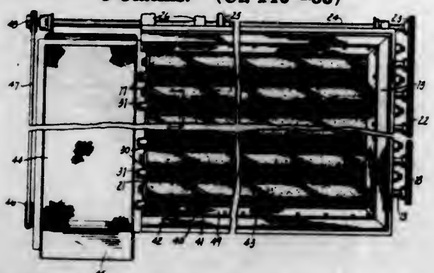
1. In a hub type telegraph repeater concentration, a loop and telegraph station circuit connected to a hub type loop telegraph repeater, said repeater having a first space discharge device in a sending leg to receive signals incoming from the hub to the loop, a second space discharge device responsive to said first device, said second device having an anode-cathode path in series with said loop, a third space discharge device in a receiving leg, said third device having a first control circuit connected to said first device and a second control circuit connected to said second device, so as to control said third device in a plurality of manners dependent on the activation or inactivation of said first and second devices.

2,594,994
GROUND DETECTOR CIRCUIT
Theodore A. Rich, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 31, 1950, Serial No. 193,226
5 Claims. (Cl. 175—183)



1. In a direct current power transmission system having a pair of energized direct current supply conductors and having a leakage resistance between one of said conductors and ground, a circuit for detecting the presence of grounds on said energized direct current supply conductors, said ground detector circuit including said leakage resistance and comprising a resistive circuit connected across said supply conductors, a pair of resistances connected between said resistive circuit and ground, a resistance indicating device connected between a variable point on said resistive circuit and the common terminal of said resistances, and means for selectively connecting a unidirectional potential of fixed value across said pair of resistances to facilitate adjusting said variable point to measure the leakage resistance.

2,594,995
VEGETABLE CLEANING AND TOPPING DEVICE
Ralph R. Richmond, Gun Plains Township, Allegan County, Mich.
Original application December 11, 1947, Serial No. 791,989. Divided and this application July 21, 1949, Serial No. 106,011
8 Claims. (Cl. 146—83)



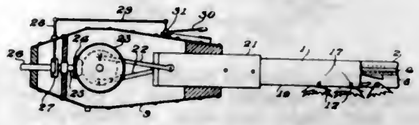
1. Topping mechanism for a tractor drawn vegetable harvesting device comprising, a framework connectable to the rear of the tractor and having castor wheels for supporting the rear of said framework, a table frame adjustably mounted on said framework, side plates on said table frame defining a plurality of pairs of apertures, stud bearings secured to one of said plates by bolts passed through the apertures in said one side plate, a plurality of parallel cleaning rolls having one end supported on said stud bearings and with shafts extending through the apertures in the other of said side plates, self-aligning bearings secured to said other side plate and supporting said shafts, sprockets on said shafts, a chain for driving said sprockets in the same direction, a gasoline motor on said framework for driving said chain, cutter bars of multi-sided cross section positioned between adjacent cleaning rolls, spring mounted bearings for supporting said bars, the springs for said bearings being arranged to urge said bars into engagement with said rolls, spirally arranged ribs on said cleaning rolls, a covering of soft material on said rolls and tapering in thickness to a thickest portion at the leading edges of said ribs, a delivery conveyor delivering from the ends of said rolls and means for driving said delivery conveyor from the same motor for operating said rolls.

2,594,996
EXPLOSIVE COMPOSITION
John E. Riley, Flanders, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 22, 1950, Serial No. 197,165
10 Claims. (Cl. 52—5)

1. A detonative gelatinous explosive composition comprising at least one liquid explosive nitric ester and as a gelling agent for said ester, from about 4% to about 10% by weight thereof of cellulose acetate having a viscosity not greater than about 80 seconds and a combined acetic acid content of between about 54.0% and about 56.0%.

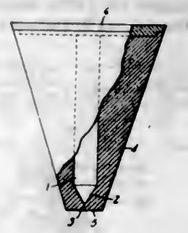
2,594,997
POWER-DRIVEN RECIPROCATING DRAG SAW HAVING TWO OPPOSITELY RECIPROCATING BLADES
Homer E. Ringgold, Milford, Del.
Application June 16, 1948, Serial No. 33,281
7 Claims. (Cl. 143—63)

1. A saw, comprising a pair of relatively reciprocatory members secured together in slidable engagement and forming between them a longitudinal channel open at one end and along one side, means to reciprocate said members alternately in opposite directions, toothed elements pivotally carried by said members within said channel and protruding through the open side thereof, each of said elements comprising a series of teeth, those teeth at the opposite ends of said series alternately engaging the bottom of a sawcut at an acute angle, while the intervening



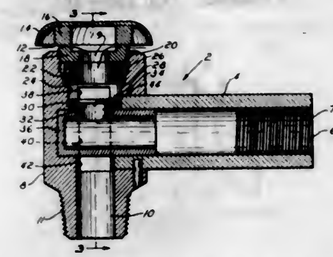
teeth in engagement with the bottom of the sawcut operate to angularly oscillate the element at each change in direction of the member carrying it, means to limit the angular movement of said elements in opposite directions, passageways to permit sawdust deflected upwardly by said elements to enter said channel, and means facing in one direction in said channel and reciprocatable with said members to propel sawdust therein towards one end thereof.

2,594,998
SINGLE CRYSTAL FABRICATION
William A. Rocco, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application February 23, 1950, Serial No. 147,390
1 Claim. (Cl. 22—212)



The method of fabricating a metal single crystal which consists essentially of the steps of (1) placing a charge of metal in a graphite mold having annular inner walls defining a vertically-extending, substantially cylindrical mold cavity having a tapered bottom portion terminating at a point, the side walls of said mold being of a thickness greater than the minimum thickness of the mold adjacent the bottom portion of said mold cavity and gradually increasing in thickness towards the top of said mold, the wall thickness at the top of the mold being equal to at least about twice the diameter and at least one-third the depth of said mold cavity and the thickness of the mold adjacent the bottom portion of said mold cavity being less than one-half the diameter of said chamber, (2) heating both the graphite mold and the charge of metal to a temperature above the melting point of the metal, and (3) immediately thereafter subjecting both the entire mold and its metal contents to an ambient temperature from 50 to 150° C. below the melting point of the metal for a period of time sufficient to effect the solidification of the metal in the form of a single crystal.

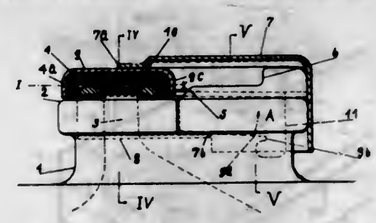
2,594,999
ANTIBACKFLOW VALVE
James D. Robinson, Memphis, Tenn.
Application March 22, 1950, Serial No. 151,288
3 Claims. (Cl. 251—118)



1. An anti-siphon, anti-backflow valve for liquids comprising a substantially T-shaped casing with a hollow stem portion and two hollow branch portions projecting from the inner end of the stem portion, said stem portion constituting a liquid inlet and one of said branches constituting a liquid outlet, a portion of the other branch defining a valve chamber having cylindrical side walls, an inner end wall, and inlet passage means through said inner end wall connecting said one end of said chamber exclusively with said liquid inlet, a first valve seat in said chamber adjacent said inner end wall and surrounding said inlet passage means, said chamber having a vent in the opposite end thereof connecting with the atmosphere, a second valve seat disposed between said valve chamber and said vent, port means in the side wall of said chamber extending laterally therefrom and disposed between said inner end wall and said second valve seat, bypass passage means connecting said port means and said outlet, and a relatively thin valve disk movably supported in said chamber and alternately engageable with said first and second seats whereby selectively to seat against said second valve seat and to connect said inlet and said outlet via said port and passage means in response to sufficient liquid pressure in said inlet passage means to raise said valve disk and to seat against said first valve seat and to connect said outlet to the atmosphere via said passage and port means and vent when liquid pressure in said inlet passage means is substantially reduced, a major portion of said port means extending above the valve disc when it is seated on said first valve seat, whereby the fluid connection between said chamber and said liquid outlet is exclusively through said port means and said by-passage means.

2,595,000
CLOSURE DEVICE FOR CONTAINERS
Joseph Ruetz, Biel, Switzerland
Application September 24, 1949, Serial No. 117,590
In Switzerland October 23, 1948
6 Claims. (Cl. 220—41)

1. A container and closure means therefor comprising, in combination, a pouring end portion on said container having the mouth of the container located at one side thereof and having a projecting bead located therearound, said bead having a substantially flat undersurface; a closure means mounted over the mouth of said container when the container is closed, said closure means having at least one elongated control element connected thereto and extending along the side of said bead, said control element having an edge portion which is inclined in a direction extending from the outer end of the mouth of the container toward the undersurface of said bead and from said one side of said pouring end portion toward the other side thereof, said inclined edge portion of said control element extending through the plane in which said flat undersurface of said bead is located; and actuating means for said closure means having a portion thereof located at least partially over said closure means when said closure means is in closed position, said actuating means comprising a flanged portion extending along said flat undersurface of said bead so as to guide the movement of said actuating means, said flanged portion having an end located adjacent to said inclined edge portion of said control element when said actuating means



is in closed position, the distance between said end of said flanged portion of said actuating means and the point of said inclined edge portion of said control element which is located in said plane being at least equal to the length of said portion of said actuating means which is located over said closure means, whereby, when said actuating means is moved from said one side of the pouring end portion toward the other side thereof to open the container, said end of said flanged portion contacts said inclined edge portion of said control element to raise said control element with respect to said flanged portion and thereby raise said closure means from the mouth of said container to break the seal therebetween before any lateral movement is imparted to said closure means by said actuating means.

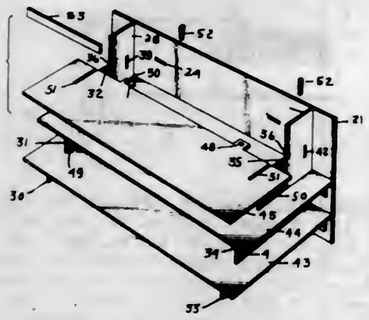
2,595,001
MECHANICAL WRITING INSTRUMENT
Herbert W. Sams and John Sherman Smith, Jr., Atlanta, Ga., assignors to Scripto, Inc., a corporation of Georgia
Application January 14, 1948, Serial No. 2,208
4 Claims. (Cl. 120—18)



1. A mechanical writing instrument comprising a barrel, a feed mechanism including a rotatable, longitudinally slotted, guide tube dis-

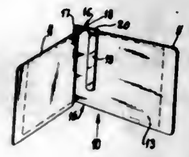
posed in said barrel for feeding a marking element to the writing end of said barrel, and a friction element having a key portion formed for engagement in the longitudinal slot in said guide tube and arcuate arm portions extending from said key portion for frictional engagement interiorly with said barrel for restraining rotation of said guide tube under writing pressure.

2,595,002
DISPLAY STAND
Kurt Albert Schneider, Sandston, Va.
Application April 28, 1948, Serial No. 23,773
1 Claim. (Cl. 211—137)



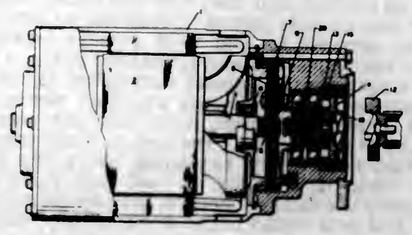
A knockdown display stand comprising a plurality of separate individual elements of lumber comprising a pair of upright supports, a plurality of shelves, a single unitary back piece, a plurality of combined supporting and bracing strips and a plurality of fastener wedges, all of said elements having free edges when not assembled, said supports being stepped along their corresponding edges respectively to form seats for said shelves, said supports having front and rear edges, said supports having upright slotted portions adjacent their rear edges, said portions being in vertical alignment with each other and the uppermost portions being on a level with said stepped portions respectively, said supports being recessed rearwardly from said stepped portions on a level with said stepped portions, said shelves being of different widths, the uppermost shelf being the narrowest and the lowermost shelf being the broadest, said shelves having front and rear edges, each of said shelves having a pair of apertured tenons on the rear edge thereof, said shelves being slotted in their rear edges at a point located intermediate the tenons and the ends of the shelves thereby providing free unsupported rear edge portions for said shelves, said back piece having three pairs of slotted portions receiving the apertured tenons on the rear of the shelves, each apertured tenon receiving one of said wedges to firmly secure the back piece to the shelves and supports, the slotted portions of the shelves receiving the supports and the shelves also interfitting in the recesses of the upright supports, said combined supporting and bracing strips being rectangular in cross section and being wider than they are thick and extending through the slotted portions of the upright supports and fitting snugly therein, said strips engaging beneath the slotted rear edge portions of said shelves and firmly supporting the same both inside and outside of said upright supports.

2,595,003
BILL CASE
Louis Seamon, Brooklyn, N. Y., assignor to A. & L. Seamon, Brooklyn, N. Y., a firm
Application February 28, 1950, Serial No. 146,644
2 Claims. (Cl. 150—38)



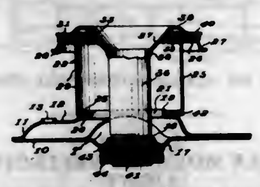
2. A bill case for carrying folded bills in concealment, comprising a flexible outer cover folded along an edge, a metallic one-piece bill clamp having a folded edge in which the edge of said cover is clamped, said clamp having a flat wall outside said cover and extending from said folded edge, a spring tongue integral with said wall and extending into said cover, said spring tongue being laterally spaced from said folded edge, whereby a plurality of folded bills may be placed in said cover under said tongue and retained in said cover in a manner to permit removal of any of said bills selectively from a roll of bills clamped in said bill case.

2,595,004
STARTER JAW MESHING DEVICE
Richard E. Sears, Cleveland Heights, and Anthony F. Karlin, Bedford, Ohio, assignors to Jack & Heintz Precision Industries, Inc., Cleveland, Ohio, a corporation of Delaware
Application October 14, 1950, Serial No. 190,104
6 Claims. (Cl. 74—9)



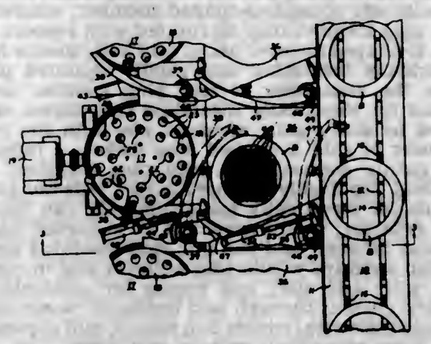
1. In combination in an engine starter, a casing, an electrical rotary driving motor, a starter jaw and an engine jaw, a barrel driven by said motor, said starter jaw being adapted to be driven, with lost motion, by said barrel, said starter jaw having a body with spaced inner end members extending into said barrel, a cam member mounted in said barrel coaxially with said starter jaw and adapted to be driven by said barrel without lost motion, said cam member having cam means adapted, upon rotation of said cam by said barrel, prior to the rotation by the latter of said starter jaw, to engage said jaw body end members to linearly extend said starter jaw into full mesh with said engine jaw prior to full rotative drive of said starter jaw by said barrel and means for clamping said starter jaw against rotation prior to full jaw mesh.

2,595,005
COMBINED DRIP PAN AND GAS BURNER STRUCTURE
Roy Shelton and Joseph S. Rowden, Chattanooga, Tenn., assignors to Samuel Stamping & Enameling Company, Chattanooga, Tenn., a corporation of Tennessee
Application November 26, 1947, Serial No. 788,164
6 Claims. (Cl. 158—105)



1. In combination, a gas chamber having upper and lower spaced walls and communicating with a Venturi tube, the upper wall having a relatively large substantially circular opening surrounded by a vertical flange, a horizontal circular seat outwardly of said flange, the lower wall having an aperture smaller than said opening and concentric therewith, a circular rib encircling said aperture, a gas burner comprising a vertically disposed cup having a base flange supported on said seat, a port ring resting on the upper end of said cup, a ring retaining member including a flange overlying said port ring and a cylindrical member extending downwardly through said cup, opening and aperture, the lower end of said cylindrical member being threaded and a nut engaged with the threads of said cylindrical member and reacting against said rib for drawing said ring retaining member downwardly.

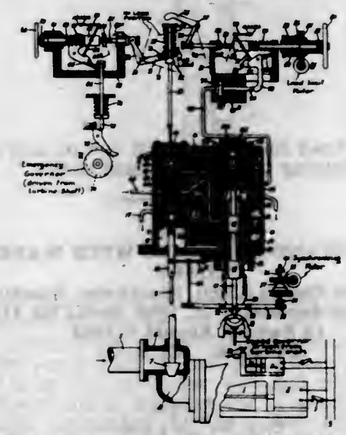
2,595,006
APPARATUS FOR HANDLING HOT METAL RODS
John W. Sheperdson, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application March 23, 1950, Serial No. 151,395
2 Claims. (Cl. 34—105)



1. Apparatus for handling hot metal rods comprising a plurality of reels each arranged to receive a rod and to form the same into an annular bundle, a conveyor arranged to move rod bundles in a generally horizontal direction, the reels being spaced slightly from the conveyor, a substantially horizontal platform between each reel and the conveyor and forming a delay station, the platform having a group of openings therethrough, means to transfer bundles from each reel to the corresponding platform in a position directly above the group of openings, means to blow air upwardly through the openings, a plate supported above each platform and arranged to be lowered on to a bundle to deflect the air laterally through the convolutions of the bundle, and means to transfer bundles from each delay station to the conveyor and operable independently of the first mentioned transfer means

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2,595,007
TURBINE GOVERNING SYSTEM
Raymond Sheppard, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 23, 1946, Serial No. 664,266
14 Claims. (Cl. 137—158)



1. In a governing system for a prime mover powerplant having inlet valve means, the combination of a source of governor operating fluid under pressure, motor means for regulating the inlet valve means including a cylinder with a piston for positioning said valve means and first pilot valve means for controlling the flow of operating fluid from said source to the cylinder, governor means responsive to prime mover speed for positioning the first pilot valve, first adjustable means for limiting movement of the piston in valve-opening direction to a first preselected value, second adjustable means for limiting movement of the piston in valve-opening direction to a second preselected value smaller than said first limiting value, and under-speed release means associated with the speed governor for rendering ineffective said second adjustable means to restore control of the system to the speed governor as limited by the first adjustable means when the speed decreases from normal to a preselected minimum value.

2,595,008
BROKEN PIPE EXTRACTOR
Walter R. Sill, Long Island, N. Y.
Application October 20, 1948, Serial No. 55,547
2 Claims. (Cl. 294—102)

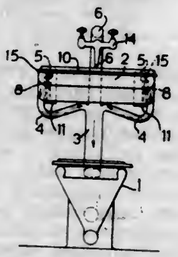
2. In a tool for extracting a broken pipe from a well, a cylindrical tubular body having its upper end reduced in diameter, a pair of side walls dependingly carried by said body and arranged in spaced, parallel relation with respect to each other to define a socket therebetween for the reception of said broken pipe, there being a first inclined slot arranged in one of said side walls, the other of said side walls being provided with an inclined slot arranged in alignment with said first slot, a shaft projecting through said in-

clined slots and slidably arranged therein, said shaft having its exterior portion knurled, and an



enlarged head formed on each end of said shaft for maintaining the latter in said slots.

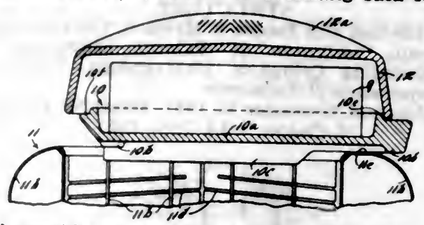
2,595,009
WASHSTAND COMBINED WITH WATER CLOSET
Gabriel Ossian Sillén, Stockholm, Sweden
Application September 21, 1949, Serial No. 116,985
In Sweden August 9, 1948
2 Claims. (Cl. 4—3)



1. A wash stand and water closet unit with the wash stand located at a distance above the closed pan, comprising, in combination, two wall supports carrying each a hollow pivot for brackets secured to the frame of the wash stand on either side thereof, friction rings between said wall supports and said brackets, filters incorporated in said hollow pivots, and two drain trap pipes connected each to one of said hollow pivots and to a common outlet pipe opening into the closet pan.

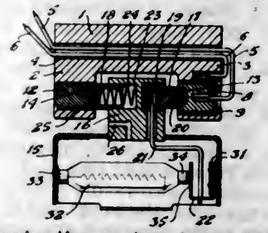
2,595,010
BUTTER WARMING RECEPTACLE
Benjamin Harold Simpson, Minneapolis, Minn.
Application June 11, 1947, Serial No. 753,867
5 Claims. (Cl. 126—246)

1. A warming device adapted to be placed on a heating means having in combination, a receptacle having a chamber therein adapted to receive the material to be warmed, said receptacle having a ledge adjacent its top, a cover for said receptacle adapted to rest on said ledge, said ledge being wider at one side of said receptacle than at the other side of said receptacle, said cover having a transverse dimension greater than the transverse dimension of said chamber and said narrower side of said ledge and said cover being movable on said ledge to a position to close the chamber in said receptacle and being movable to another position to overhang said ledge



and provide an opening into said chamber and cover.

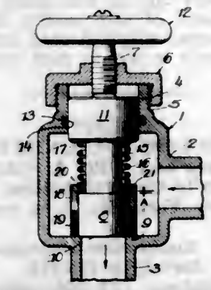
2,595,011
ROTATABLY MOUNTED REFLECTOR AND LIGHT
Mor Josif Singer, The Hague, Netherlands
Application August 31, 1949, Serial No. 113,289
In the Netherlands July 15, 1949
2 Claims. (Cl. 240—44)



1. An illuminating system for an industrial appliance, comprising in combination, a U-shaped plug socket rigidly attached to said industrial appliance and having two legs and a recess located on the inner side of each leg; a plug member located within the space between said two legs and including a rigidly mounted pin engaging one of said recesses on the inner side of one of said legs of said U-shaped member and a movably mounted pin and means for resiliently urging said movably mounted pin into engagement with the other of said recesses on the inner side of the other leg of said U-shaped member, said pins and recesses being located along an axis extending transversely to said legs of said U-shaped member, whereby said plug member may be rotated with respect to said U-shaped member about said axis; means for electrically insulating said rigidly mounted pin from the remainder of said plug member and means for electrically insulating said recess engaged by said rigidly mounted pin from the remainder of said U-shaped plug socket; a reflector rigidly connected to said plug member; a resilient clip fixedly mounted in said reflector and means for electrically insulating said clip from said reflector; means providing an electrical connection between said clip and said insulated pin; a lamp mounted within said reflector and in contact with said clip; and means for conducting electric current through said insulated recess and pin, said electrical connection means, said clip and said lamp, so as to illuminate said lamp.

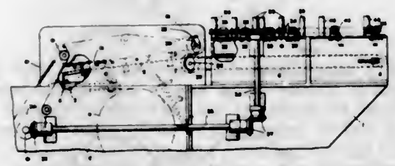
2,595,012
SPRING BIASED VALVE SEAT SEAL
Thomas R. Smith, Newton, Iowa, assignor to The Maytag Company, Newton, Iowa, a corporation of Delaware
Application April 3, 1947, Serial No. 739,045
5 Claims. (Cl. 251—27)

4. In a valve seal for preventing passage of fluid through an opening in a valve body, a valve seat encompassing the opening, a plunger movable toward and away from said seat, a pliable but non-resilient sealing member carried by said plunger and relatively movable axially with respect thereto, said sealing member including an annular part with one of its circumferential walls conforming to an supported by a complementary surface on the plunger and its other circumferential wall open to the pressure of the fluid whereby to prevent distortion of this annular part, spring means carried by said plunger



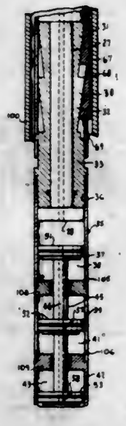
for independently urging said sealing member axially toward said valve seat, and means for closing the opening by moving the end of the plunger and the end of the sealing part into contact with the valve seat with the end of the sealing part being positioned with respect to the end of the plunger so that it contacts the valve seat ahead of said plunger, said spring means permitting the entire sealing member to move relative to said plunger after seating.

2,595,013
PIE PLATE DEPOSITOR
Dennis W. Smith, Chicago, Ill., assignor to Colborne Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 25, 1949, Serial No. 95,347
7 Claims. (Cl. 198—102)



1. In a pie machine having a series of spaced plate holders moving continuously along a predetermined path, each of said plate holders having a top opening to receive a pie plate, a device for depositing pie plates onto the plate holders of the pie machine comprising a conveyor for pie plates, plate transfer means having a delivery end extending over the path of the plate holders in alignment with the plate openings thereof and adapted to receive plates from said conveyor, and pusher means associated with said transfer means for delivering plates therefrom onto the plate holders in predetermined sequence and in timed relation with the movement of said plate holders, said pusher means moving said plates at the same speed as said plate holders, and the delivery end of said transfer means being so spaced above said plate holders that the pie plates leave the slideway and enter the plate holders in registry with the openings thereof and in a position substantially parallel therewith.

2,595,014
HYDROSTATIC PULLING TOOL FOR WELLS
Lester W. Smith and Lester W. Smith, Jr., Corpus Christi, Tex.
Application November 28, 1949, Serial No. 129,863
8 Claims. (Cl. 166—1)

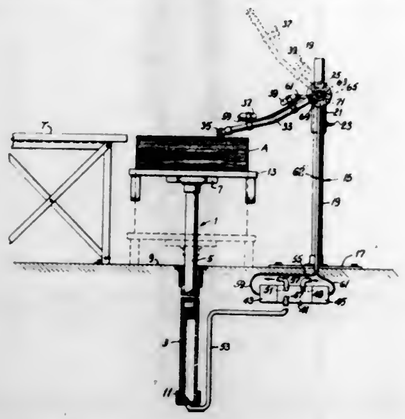


1. A pulling tool for operation with and below a tubular string employed in well bores, said tool comprising, a housing, connection means between said housing and said string and rotatable therewith, a hollow mandrel connected to the lower end of said housing, a compartmented cylinder connected to the lower end of said mandrel, hollow piston means including a piston operable in each compartment and providing communication between the piston means bore and each compartment above the piston therein, said piston means extending below said cylinder for connection to means for grasping an object lodged in the well, an opening in each compartment to admit pressure fluid from the well bore, slip means on said mandrel operable upon rotation of said string to extend and grasp said well bore wall, said connection means including hollow piston means operable within said housing upon the lifting of said string to pull vacuum in the upper part of each compartment while pressure fluid enters each compartment through said openings opposite the vacuum side of each compartment whereby the lifting force applied to said string at the top of the well is multiplied in the lifting force applied to the lodged object.

2,595,015
LIFT CONTROL
William B. Sparks, Virginia Beach, Va., assignor to Bemis Bro. Bag Company, St. Louis, Mo., a corporation of Missouri
Application December 3, 1949, Serial No. 131,021
9 Claims. (Cl. 187—17)

5. In apparatus of the class described, a hydraulic lift for raising a stack of articles, said lift including a vertical cylinder, a solenoid valve having a transfer port connected to the lower end of the cylinder, a pressure port connected to a source of fluid under pressure, and a return port, and having a first and a second solenoid, said valve being adapted to block the cylinder port when both solenoids are deenergized, to connect the pressure port to the transfer port when the first solenoid is energized and the second deenergized, and to connect the transfer port to the

return port when the second solenoid is energized and the first is deenergized, a feeler arm pivoted for swinging movement on a substantially horizontal axis adjacent the lift with the free end of the arm adapted to bear on the top of the stack of articles on the lift, a first liquid contact switch carried by the arm in position such as to remain closed until the arm swings upward from a



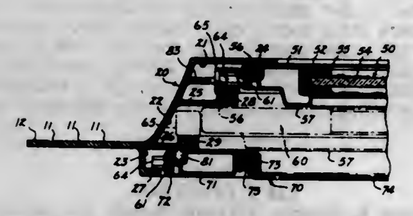
lowered position to a predetermined angular position and then to open, said first switch being connected in a circuit including the first solenoid, and a second liquid contact switch carried by the arm in position such as to remain open until the arm is swung upward well above said predetermined angular position and then to close, said second switch being connected in a circuit including said second solenoid.

2,595,016

STORM WINDOW

Sam Spector, Shaker Heights, and George J. Teplanszki, Lakewood, Ohio, assignors to Tilt-Type Products, Inc., Cleveland, Ohio, a corporation of Ohio

Application September 7, 1949, Serial No. 114,386
4 Claims. (Cl. 20—52.2)



1. Window sash having sashes individually removable from the inside of the window comprising a frame defining a sash opening, said frame being comprised of lintel and sill members and a pair of jambs having a plurality of pairs of opposed coplanar channels, said pairs of jamb channels being inwardly offset away from the center of the sash opening so that the outer walls of any given channel extend toward the center of the window farther than the inner wall of that channel, sashes slidable in a pair of said opposite coplanar channels, the lateral dimension between opposite vertically extending sides of a given sash being less than the distance between the inner walls and greater than the distance between the outer walls of the channel in which said sash slides, laterally extending bosses on said vertically extending sides of said sashes, the lateral distance between the ends of opposite bosses on a given sash being greater than the distance between the inner walls of the channel for the sash, and passageways cut in the inner walls of the channels for each of said sashes to permit said bosses to be passed through said inner walls and into the channels in which said sashes are slidable.

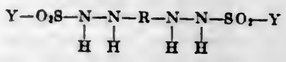
2,595,017

BIS-β-AROMATIC SULFONHYDRAZIDES

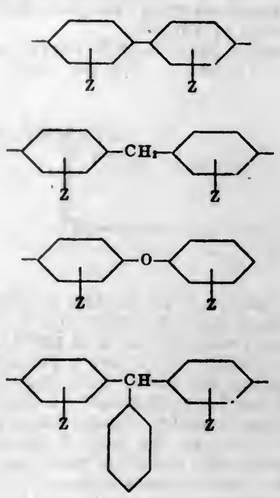
Joseph A. Sprung and Willy A. Schmidt, Easton, Pa., assignors to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 28, 1949, Serial No. 135,526
6 Claims. (Cl. 260—509)

1. Bis-β-aromatic sulfonhydrazides of the following formula:

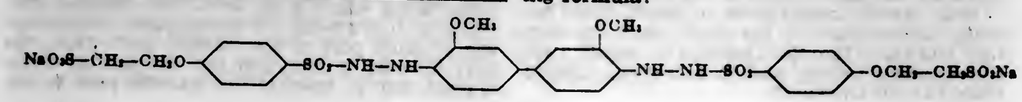


wherein both Y's are alike and are selected from the class consisting of lower alkyl, lower alkoxyphenyl, sulfo lower alkoxyphenyl, lower alkanoyl aminophenyl, benzoylaminophenyl, and aminophenyl radicals, and R is a divalent aromatic radical selected from the class consisting of those of the following structure:



wherein the Z's are alike and are selected from the class consisting of hydrogen and lower alkoxy.

3. A β-aromatic sulfonhydrazide of the following formula:

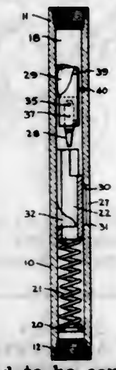


2,595,018

DRILLING SUB FOR SIDEWALL SAMPLERS

Walter A. Stokesbary, Bakersfield, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application July 31, 1950, Serial No. 176,814
7 Claims. (Cl. 255—1.4)



1. A sub adapted to be connected into a pipe string, said sub comprising a tubular member having a longitudinal opening in the wall thereof, valve means carried within said tubular member for closing said opening, spring means for maintaining said valve means in a normally closed position, and deflector means carried within said tubular member in alignment with the opening therein, said deflector means extending into the bore of said tubular member, said tubular member being axially open to the flow of fluid circulating through the pipe string.

2,595,019

BAIT FOR RODENT TRAPS

James F. Sullivan, Camden, N. J.

Application June 14, 1950, Serial No. 168,036
2 Claims. (Cl. 99—3)



1. A bait for a rodent trap comprising a layer of alpist seeds and a wax base having a superficial surface penetrated by portions at least of the seeds of said layer and bonded to the layer by the wax of said base and forming a cake forming a substantially rigid whole for impalement on the tongue of a bait table.

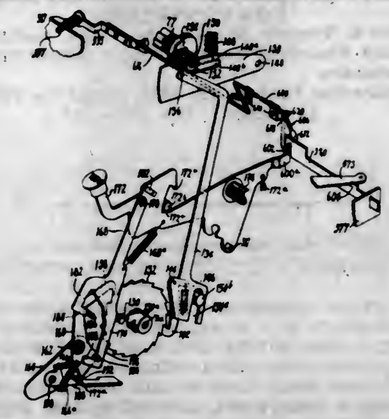
2,595,020

INTERLOCK BETWEEN CONTROL MEMBERS AND REGISTER ANALYZING MECHANISM IN TYPEWRITER-COMPUTERS

Oscar J. Sundstrand, West Hartford, Conn., assignor to Underwood Corporation, New York, N. Y., a corporation of Delaware

Original application September 4, 1944, Serial No. 552,656. Divided and this application July 28, 1948, Serial No. 41,065
2 Claims. (Cl. 235—130)

1. In a combined typewriting and accounting machine of the class described having power means, a platen, a plurality of type bar mechanisms, selectively operable means to connect said type bar mechanisms with said power means to type selected characters on a work sheet supported on said platen, a register, register operating means controlled by said selectively operable means to enter values, digit by digit, in said register, analyzing mechanism successively shiftable into engagement with successive denominational orders of said register to control said selectively operable means to print, digit by digit, the values in said register orders, a function control key operable to initiate operation of said analyzing mechanism and a state control member movable into a plurality of positions to determine effectiveness of said register operating means, the combination of a lock slide to control operation of said function control key, means to



urge said lock slide from a normal locking position to a releasing position and through such position to a second locking position, a lever connected to said analyzing mechanism to hold said lock slide in its normal position but movable with said analyzing mechanism to free said slide for movement to its releasing position when said analyzing mechanism is in engagement with the highest denominational order of said register, and to the second locking position when the analyzing mechanism is in engagement with any other denominational order, and a blocking member settable by said state control member in one position to prevent releasing movement of said locking slide.

2,595,021

MEASURING DEVICE

Secerel S. Swanson, Dallas, Tex.

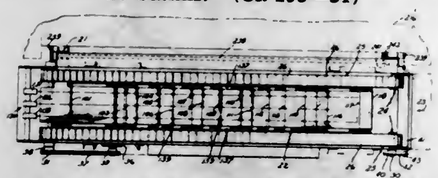
Application July 31, 1946, Serial No. 687,303
4 Claims. (Cl. 33—141)



1. A measuring device comprising, in combination, a wheel, an elongated member having

the lower end supported by said wheel, a counter mounted adjacent the upper end of said member, a cam member rotatable with said wheel and including a cam surface, means for tripping said counter actuated by said cam surface, and means locking said tripping means and said cam member upon attempted backward rolling of said wheel, including a groove in said cam surface engageable by said tripping means.

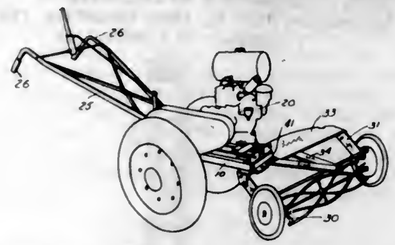
2,595,022
SELECTIVE ARTICLE SPACING APPARATUS FOR CONVEYERS
Hiram E. Temple, San Gabriel, Calif., assignor to Read Standard Corporation, a corporation of Delaware
Application January 25, 1951, Serial No. 207,772
10 Claims. (Cl. 198—34)



1. In an apparatus for spacing articles, the combination of: a supporting structure providing a path having upstream and downstream ends; means for transporting successive articles along said path toward said downstream end thereof; a master stop carried by said supporting structure adjacent said downstream end of said path and disposed in said path for intercepting an article being transported therealong; a plurality of sequences of slave stops carried by said supporting structure, said slave stops of each of said sequences being spaced apart along said path upstream from said master stop and normally being inoperative to intercept articles being transported along said path; a plurality of series of actuating means respectively corresponding to said sequences of slave stops, said actuating means of each of said series being respectively connected to said slave stops of the corresponding one of said sequences to render said slave stops of said corresponding sequence operative to intercept articles being transported by said conveyor means, the first actuating means in each of said series being operatively connectible to said master stop and being operable by said master stop upon interception thereby of an article being transported so as to render operative the first slave stop in the corresponding one of said sequences, and the second and subsequent actuating means in each of said series respectively being operatively connected to the first and subsequent slave stops in the corresponding one of said sequences and respectively being operable by the first and subsequent slave stops in the corresponding one of said sequences upon interception thereby of articles being transported so as to respectively render operative the second and subsequent slave stops in the corresponding one of said sequences; and selector means for operatively connecting any one of said first actuating means to said master stop.

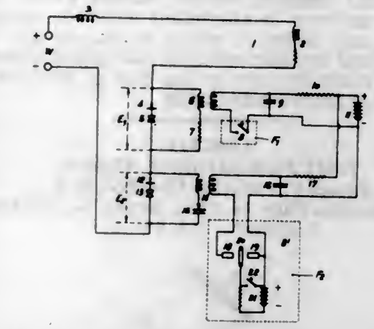
2,595,023
TRACTOR ATTACHMENT
John E. Tom, East Cleveland, Ohio, assignor to Earl Realty Company, Cleveland, Ohio, a corporation of Ohio
Application April 19, 1947, Serial No. 742,611
11 Claims. (Cl. 56—26)

1. In combination, a two-wheeled frame, a lawn mower having arms pivotally attached thereto and extending upwardly and rearwardly therefrom, a plate connecting said arms, a bar attached to the plate and extending forwardly thereof, a second bar carried by the frame and pivotally



connected to the first-named bar, the second bar having a tongue cooperating therewith to guide the plate in its angular movement with relation to the frame.

2,595,024
CONTACT ARC SUPPRESSION
Pierre Marie Gabriel Toulon, Paris, France, assignor to Products & Licensing Corporation, New York, N. Y., a corporation of Delaware
Application January 14, 1949, Serial No. 70,926
In France January 19, 1948
10 Claims. (Cl. 171—97)



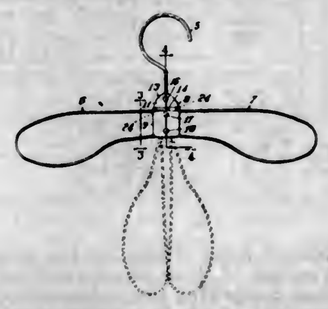
7. A system for interrupting flow of electric current in a high voltage circuit, comprising, first means for interrupting said circuit, a first rectifier in series with said first means and poled to conduct said current in response to said high voltage, a resistance, an inductance, means connecting said resistance and inductance in series with each other and in shunt with said first means for interrupting and said first rectifier, second means for interrupting said circuit, a second rectifier in series with said second means for interrupting and poled to conduct said current in response to said high voltage, a condenser, a second inductance, means connecting said condenser and said second inductance in series with each other and in shunt to said second means for interrupting and said second rectifier, means for inducing in said first inductance a transient voltage adapted to reduce current flow in said first means for interrupting to zero and for actuating said first means for interrupting to interrupting condition during said transient voltage, and means for thereafter inducing in said second inductance a further transient voltage adapted to reduce current flow in said second means for interrupting to zero and for actuating said second means for interrupting to interrupting condition during said further transient voltage.

2,595,025
SPIRALED PARAFFIN REMOVER FOR OIL WELLS
James C. Tripplehorn, Pampa, Tex.
Application August 23, 1947, Serial No. 770,229
4 Claims. (Cl. 166—18)



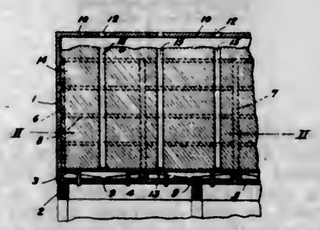
1. A spiraled paraffin remover adapted to engage a sucker rod within a well tubing, comprising: a round wire coiled into a helix, at least one coil of the helix being of uniform diameter, said uniform diameter being normally less than the diameter of the rod and being expansible to frictionally grip the rod when mounted thereon, and at least another coil of the helix being of a uniform diameter substantially equal to the inside diameter or the tubing.

2,595,026
COLLAPSIBLE GARMENT HANGER
Thomas L. Varker, Dallas, Pa.
Application October 21, 1949, Serial No. 122,751
5 Claims. (Cl. 223—94)



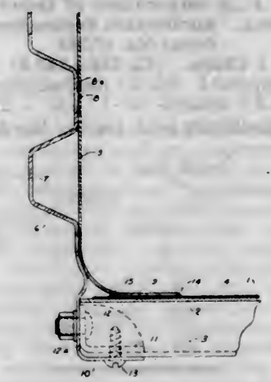
1. A collapsible garment hanger comprising a clip having means attached thereto for supporting the same, said clip having a pair of vertically spaced pins carried thereby, and a substantially U-shaped supporting arm disposed on each side of said clip, each arm lying in a plane substantially perpendicular to the axes of said pins, said arms being formed of resilient wire-like elements providing upper and lower legs having their terminals pivotally connected to the upper and lower pins, respectively, said arms normally being disposed in horizontally extending relation to said clip and being downwardly pivotally movable placing the upper legs under tension and the lower legs under compression so that the arms resiliently upwardly return to their normal positions when released from downward movement.

2,595,027
METHOD AND MEANS FOR THE TREATMENT OF GARBAGE THROUGH FERMENTATION
Jean Gaston Charles Joseph Verdier, Cannes, France, assignor, by mesne assignments, to Biothermal Process Corporation, a corporation of New York
Application August 8, 1947, Serial No. 767,622
In France March 17, 1944
6 Claims. (Cl. 195—128)



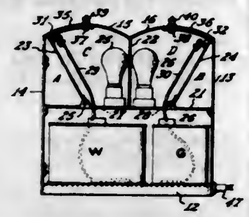
1. A method for treating garbage by aerobic fermentation in a cell having air admission openings, which comprises inserting vertical uprights in the fermentation cell at a plurality of points spaced inwardly of the walls of the cell, filling the cell with garbage to form a mass throughout which the said uprights pass, allowing the garbage to settle, and subsequently removing said uprights to provide empty columnar spaces in the settled mass of garbage for increasing the admission of air into said mass.

2,595,028
VEHICLE BODY STRUCTURE
Wilhelm Vutz, Coldwater, Ohio, assignor to Avco Manufacturing Corporation, Cincinnati, Ohio, a corporation of Delaware
Application August 2, 1949, Serial No. 108,101
4 Claims. (Cl. 296—28)



1. In combination in a vehicle body, a floor panel comprising a supporting layer of corrosion resistant material and a transversely corrugated reinforcing member, a pair of side panels each comprising a wall layer of corrosion resistant material and a longitudinally corrugated reinforcing member, said wall layers being curved and extended to overlap and lie adjacent to said floor panel supporting layer, and a plurality of brackets disposed within and conforming to the corrugations of said floor panel for interconnecting said floor and side panels to form a rigid unitary structure.

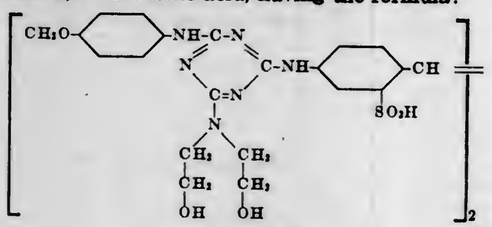
2,595,029
VAPORIZER
Lawrence W. Wallace and Charles W. Kincaid, Cincinnati, Ohio
Application July 9, 1949, Serial No. 103,844
10 Claims. (Cl. 21—119)



1. A vaporizer comprising a casing divided into at least two compartments, one a reservoir compartment of fixed volume, and the other a vaporizing compartment, a reservoir of liquid to be vaporized in said reservoir compartment, a displaceable partition in said vaporizing compartment providing on one side thereof a vaporizing chamber of variable cubic content, a heating element in said vaporizing chamber, a wick aperture communicating between said reservoir compartment and said vaporizing chamber, and a wick extending from said reservoir through said wick aperture and into said vaporizing chamber and secured to said displaceable partition, whereby upon displacement of said partition the cubic content of said vaporizing chamber and the proximity of said wick to said heating element are varied concurrently, to vary the evaporation rate of said liquid.

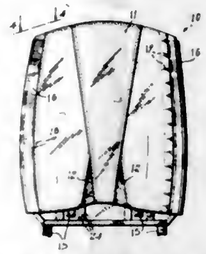
2,595,030
BIS[2- DIETHANOLAMINO - 4 - p -ANISIDINO-1, 3, 5 - TRIAZYL-(6)-]- 4, 4'- DIAMINOSTILBENE-2,2'-DISULFONIC ACID
William E. Wallace, Phillipsburg, N. J., assignor to General Aniline & Film Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application September 1, 1948, Serial No. 47,344
1 Claim. (Cl. 260—249.6)

The compound bis[2 - diethanolamino - 4-p-anisidino-1,3,5-triazyl-(6)-] - 4,4' - diaminostilbene-2,2'-disulfonic acid, having the formula:

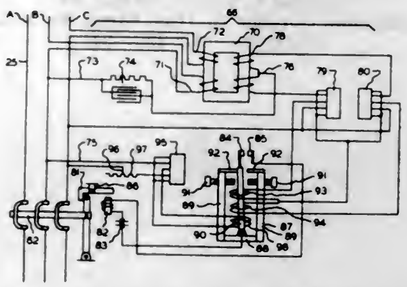


2,595,031
CORSET
George G. Wanish, Cortland, N. Y.
Application June 29, 1949, Serial No. 101,939
1 Claim. (Cl. 2—43)

A waist control for a one-piece foundation garment having a non-elastic front panel with vertical side edges, a non-elastic back panel with vertical side edges and elastic side panels having vertical side edges secured to the vertical side edges of the front and back panels, said waist control comprising elongated waist reinforcement panels positioned with their lengths extended horizontally on either side of the garment at the inside thereof to have front ends and back ends, the front panel having its top portion projected slightly above the top edges of the side panels, said reinforcement panels being secured at their front ends to the vertical side edges of the front panel above and below the top edges of the side panels, said reinforcement panels being secured at their back ends to the rear panel inward of the vertical side edges thereof, each of said reinforcement panels having a non-elastic front portion and an elastic rear portion secured together in end alignment, said non-elastic front portions of said reinforcement panels being in facial frictional contact with the elastic side panels over the major portion of the height of said non-elastic front portions, said elastic rear portions of said reinforcement panels being in facial frictional contact with the non-elastic material of the rear panels.

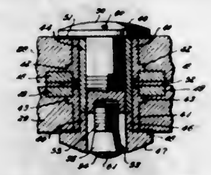


2,595,032
PROTECTIVE RELAY FOR TRANSMISSION SYSTEMS
Roy J. Wensley, Charlotte, Mich.
Application August 10, 1949, Serial No. 109,524
2 Claims. (Cl. 175—294)



1. A distance relay system for the isolation of a faulted section of three-phase electrical transmission lines comprising circuit breakers disposed at the terminal of phase conductors of known inductive reactance, a multi-coil transformer, means connecting said transformer with two of said conductors as to combine the currents from two phases of said conductors with the voltage from corresponding phases of said conductors to produce a vector sum current and a vector difference current proportional to an arithmetic function of the reactive volt amperes flowing through said two conductors, first rectifying means connected to said transformer output for said vector sum current and second rectifying means connected to said transformer output for said vector difference current to produce unidirectional resultant currents proportional to said vector sum current and vector difference current, a potential circuit connected to said two conductors functioning as an artificial line including an adjustable resistor and third rectifying means to produce a unidirectional resultant current proportional to the voltage of said two conductors, control means for said circuit breakers, and relay means responsive to the algebraic sum of unidirectional currents of said first, second and third rectifying means to actuate said control means when the inductive reactance of said phase conductors between said circuit breakers falls below said known value a predetermined amount.

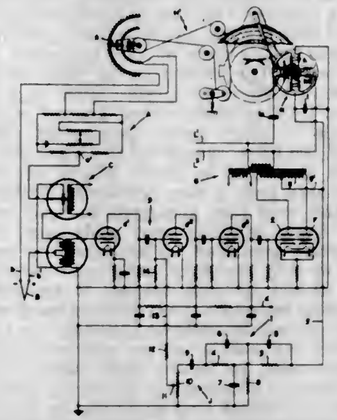
2,595,033
PINKING SHEARS
Henry C. Wheeler, Bridgeport, Conn., assignor to Acme Shear Company, Bridgeport, Conn.
Original application November 4, 1948, Serial No. 58,169, now Patent No. 2,582,184 dated January 8, 1952. Divided and this application March 5, 1951, Serial No. 213,839
3 Claims. (Cl. 30—270)



1. In shears or the like having a pair of blades, a pivot structure connecting the blades for scissor-like manipulation, said pivot structure including a tubular blade-engaging bushing fixed in an aperture in each blade and against rotation relatively to the blade, an interior tubular bushing within and embraced by both said bushings, one of the blade-engaging bushings being fixed to said interior bushing against relative rotation therewith and the other blade-engaging bushing being rotatable relatively to said interior bushing, a headed screw extending through said interior bushing from one side of the shears or the like, a nut on the opposite side of the shears or the like engaged by said screw, the entrant end of said screw being split and bored and tapped to receive an expander screw, and an expander screw screwed into said end of the headed screw.

2,595,034
ANTIHUNTING MEASURING AND CONTROLLING APPARATUS
Rudolf F. Wild, Wilmington, Del., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 3, 1949, Serial No. 125,199
13 Claims. (Cl. 318—28)

1. In self-balancing measuring apparatus comprising a circuit network including an alternating current amplifying and motor controlling device having an input circuit and an output circuit, and including a normally balanced measuring circuit adapted to be unbalanced by a change in a measured condition and adapted, when so unbalanced, to provide an appropriate output signal, means connecting said measuring circuit to said input circuit and operative to impress on the latter an alternating current motor drive signal corresponding to said output signal, of a predetermined frequency, and of a phase depending upon the direction of measuring circuit unbalance, said output signal and hence said motor drive signal being operative to fade away as measuring circuit balance is closely approached and attained in a subsequent rebalancing operation, and a reversible rebalancing motor including a control winding connected to said output circuit and operative, under the control of said amplifying and motor controlling device, to effect rebalancing operations on said measuring circuit when the latter is unbalanced, said amplifying and motor controlling device including means operative to impress on said control winding, through said output circuit, an output current having a rebalancing component operative to cause said motor to effect said rebalancing operations and being of said predetermined frequency and of a phase and magnitude respectively dependent upon the phase and magnitude of said motor drive signal, said output current also having a component of a frequency which is higher than said predetermined frequency and which appears across said control winding as said motor drive signal fades away, the improved motor damping arrangement comprising a damping circuit connected in a feed back path between said control winding and a portion of said network, said damping circuit including an output portion connected to said network portion and an input portion connected across said



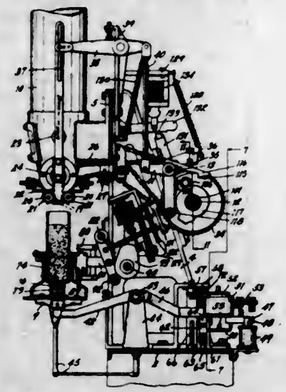
control winding, whereby said rebalancing and said higher frequency current components, when present, are applied to said input portion from said control winding, and frequency selective means included in said damping circuit between said input and output portions and operative to permit said rebalancing current component to produce in said output portion a damping signal having a magnitude and sense which are respectively dependent upon the magnitude and phase of said rebalancing current component, said portion of said network being so chosen that the magnitude and sense of said damping signal are such as to cause said damping signal to reduce the effective magnitude of said motor drive signal, said frequency selective means being operative also to prevent said higher frequency current component from appearing in said damping signal, whereby the latter is made solely dependent upon said rebalancing current component and is rendered substantially entirely independent of said higher frequency current component, thereby to effect efficient damping of said motor without permitting said higher frequency current component to reduce the sensitivity of the apparatus at or near the balanced condition of said measuring circuit.

2,595,035

CARTON FILLING AND WEIGHING MACHINE

Franklin M. Willbrandt, Battle Creek, Mich., assignor to Battle Creek Bread Wrapping Machine Company, Battle Creek, Mich.

Application September 10, 1947, Serial No. 773,247
39 Claims. (Cl. 249—59)



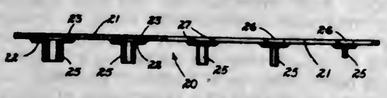
1. A carton filling and weighing machine comprising a conveyor having a continuously driven conveyor belt, a scale having a pan positioned intermediate of the ends of said conveyor and arranged to lift the carton to be filled off of said belt, a scale switch associated with said scale to be closed in a predetermined loaded position of said scale, a filler spout positioned over said scale pan, an offset wedge on the inlet side of said conveyor arranged to move empty cartons laterally of said belt, a stop positioned between said wedge and said pan arranged to hold incoming cartons from entering said scale pan, an inlet limit switch arranged to be closed by incoming cartons in said conveyor, said inlet switch being located ahead of said wedge, a kick-off lever arranged to move a carton from behind said stop for entry onto said scale pan, a stop bar arranged to register the position of an unfilled carton over said scale pan, an outlet limit switch arranged to be closed by a carton on the outlet side of said conveyor, an outlet stop arranged to hold a carton in contact with said outlet limit switch, electrically controlled mechanically operated reset mechanism for raising said scale pan to carton filling position, and a cam shaft having a single rotation cycle of operation with the reset mechanism of said machine, said cam shaft having angularly spaced cams operative to successively retract said outlet stop, advance said kick-off lever and advance said scale pan stop bar and come to rest with said outlet stop advanced, said reset mechanism being electrically connected to be energized through all said switches in series.

2,595,036

APPARATUS FOR DOUBLE FLARING TUBES

Glenn W. Wolcott, Dayton, Ohio, assignor to Penn Aircraft Products, Inc., Dayton, Ohio, a corporation of Ohio

Application June 26, 1948, Serial No. 35,363
5 Claims. (Cl. 153—79)



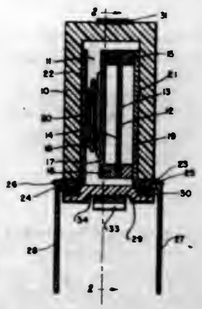
1. A tool of the character described for use in combination with clamping jaws and a pressure member to form a double flare at the end of a tube of predetermined diameter held in said clamping jaws and projecting therefrom, comprising a flat body portion, a guide portion extending from a surface of said body portion and having a predetermined diameter to be received within a tube of said predetermined diameter, a concave frusto-conical working face on said body portion concentric with said guide portion for engagement with an end of said tube to form a circumferential rib thereon upon relative movement toward said tube, and said body portion having a pressure face thereon opposite said guide portion for pressure engagement with said pressure member to effect said shaping operation.

2,595,037

PIEZOELECTRIC CRYSTAL APPARATUS

John M. Wolfskill, Erie, Pa.

Application February 25, 1948, Serial No. 10,887
5 Claims. (Cl. 171—327)



2. A piezoelectric crystal apparatus comprising: a piezoelectric crystal blank having a pair of major faces, a housing having a cavity therein for receiving said crystal blank, electrodes for said major faces, ring shaped elements on each side of said crystal blank for clamping peripheral portions of said major faces therebetween and for contacting said electrodes, a disc engaging the outer side of one of said ring shaped elements, a spring engaging the outer side of said disc, a pair of contacting members positioned against opposite surfaces of said cavity, one of said contacting members engaging said spring and the other of said contacting members engaging the other of said ring shaped elements, said crystal blank, said ring shaped elements, and said disc being supported under compression between said contacting members in said cavity, a closure for said cavity, flat terminals integral with said contacting members extending to the exterior of said cavity past edges of said closure, and means for hermetically sealing said closure to the mouth of said cavity and over surfaces of said flat terminals.

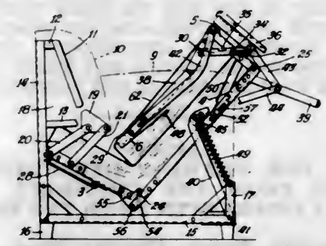
2,595,038

SOFA BED

Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, a corporation of Delaware

Application June 10, 1946, Serial No. 675,590
5 Claims. (Cl. 5—29)

4. A sofa bed structure which comprises a normally stationary frame and a bed bottom comprising a plurality of foldable sections including two sections having means hingedly connecting said two sections whereby said two sections are relatively foldable with one of the two sections overlying the other, mounting means movably supporting said plurality of sections on said frame whereby said sections when folded are movable inwardly of said frame with one of said two sections uppermost to form a sofa seat, means interconnecting and carried by said two sections for drawing said two sections toward each other,



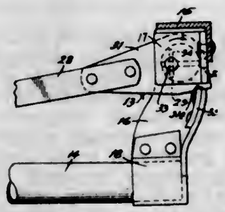
and a link carried by one of the plurality of sections at one end thereof and having a lost motion connection with said interconnecting means for effectively operating said interconnecting means by the movement of said foldable sections relative to the frame when the foldable sections are moved inwardly toward said frame.

2,595,039

ADJUSTABLE COIL SPRING CENTER SUPPORT

Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application August 3, 1948, Serial No. 42,322
2 Claims. (Cl. 5—239)



1. In a bed of the class described which includes a main frame, a yieldable bed fabric supported upon said frame and an auxiliary resilient support unit positioned beneath said fabric between the ends of said frame, said support unit being shiftable upwardly into reinforcing engagement with said fabric; suspension means for said support unit at each end thereof comprising a transverse shaft journalled on the adjacent frame end, a plurality of spaced-apart eccentrics mounted on said shaft for rotation therewith, a plurality of upwardly-extending spaced-apart links disposed longitudinally of said bed, said links being hingedly connected at their lower ends to said support unit, said links being journalled at their upper ends on said eccentrics, means for rotating said shafts to raise or lower said links thereby to shift said support unit into or out of engagement with said fabric, and means for locking said links in raised position.

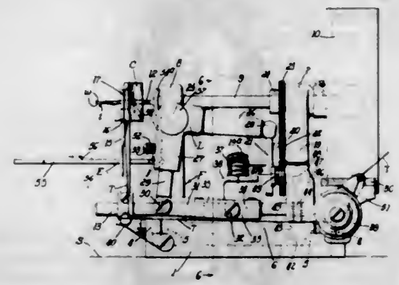
2,595,040

COP WINDING MACHINE

Alfred R. Wood, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application September 10, 1948, Serial No. 48,662
7 Claims. (Cl. 242—22)

1. A cop winding machine comprising a base; a frame pivotally mounted on said base; spring means urging said frame to an inoperative position; locking means working in opposition to said spring means to hold said frame in an operative position; a rotary spindle journaled in said frame and having a thread-receiving end portion designed to have a thread wound thereon; a slide-bar mounted in said frame; a thread-laying finger carried by said slide-bar and having a thread-guide movable adjacent the thread-receiving portion of said spindle; means actu-



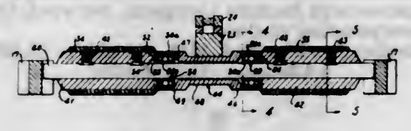
ated from said spindle to shift said slide-bar and thread-guide lengthwise of said spindle to cause a thread to be wound helically about the spindle; and means including a trip-finger and a movable abutment actuated thereby actuated by said thread-laying finger, when the thread wound on said spindle has reached a predetermined diameter, to trip said locking means and permit said frame to be moved to an inoperative position by said spring means.

2,595,041

TOP ROLL

William C. Wright, Hickory, N. C.

Application July 27, 1950, Serial No. 176,141
2 Claims. (Cl. 19—142)



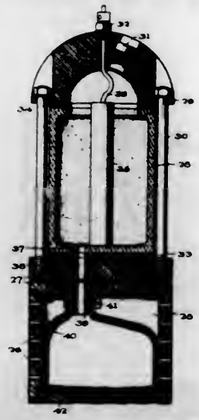
1. An improved top roll for fiber processing machines such as spinning frames, roving frames, twisters and the like, comprising an arbor, a pair of axially spaced bosses fixedly mounted on said arbor, a roller neck disposed between said bosses and encircling said arbor, opposed ends of the roller neck having an annular recess therein, a pair of anti-friction bearings having inner and outer races, the outer races of said bearings being secured in said annular recesses in opposed ends of the roller neck and the inner races being secured to said arbor, each of the bosses having an annular projection on its end adjacent the roller neck, said annular projection being adapted to engage the outer edge of the corresponding inner race of the anti-friction bearing to thus insure that the proximate ends of the axially spaced bosses will be disposed in closely spaced relation to the adjacent ends of the roller neck and whereby the bosses and the arbor may rotate freely relative to the roller neck and vice versa.

2,595,042

NONPOLARIZING ELECTRODE FOR ELECTRIC LOGGING OF BOREHOLES

Malcolm R. J. Wyllie, Indiana Township, Allegheny County, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware

Application March 23, 1950, Serial No. 151,361
4 Claims. (Cl. 204—195)



1. A non-polarizing electrode for use in electric well logging which comprises an inert porous container, a deformable reservoir in communication with the interior of said porous container and located at a lower level than said porous container, an electrolye in said porous container and in said deformable reservoir, a half-cell immersed in the electrolyte in said container, said half-cell being reversible with respect to an ion of said electrolyte, and an insulated electrical connection to said half-cell.

2,595,043

MERCHANDISE PACKAGE

Ralph C. Zimmerman, Norwood, Ohio, assignor to Zimmerman Packing Company, Norwood, Ohio, a corporation of Ohio

Application March 6, 1948, Serial No. 13,489
5 Claims. (Cl. 206—78)



1. In a merchandise package the combination of a flexible bag of suitable length and breadth having a front and back of substantially equal length, a closed end and an open end, a stiff insert within the bag between the front and back thereof of a width substantially equal to the width of the bag and having one end of the insert against the closed end of the bag, said insert being of less length than the bag front and back, said bag receiving merchandise through its open end for disposition between the insert and the bag front, said bag having the portions of its front and back, in excess of the insert, folded onto the exterior of the said bag front which is in contact with the merchandise and substantially entirely covering the merchandise contained therein, and means securing said folded portions of the bag front and back in said folded positions.

2,595,044

DEVICE FOR DRAWING OFF ARTIFICIAL FIBERS FROM THE SPINNERET, ESPECIALLY FIBERS SPUN FROM THE MOLTEN MASS

Josef Zmatlík, Brunn, Miroslav Starý, Zilina, Bohumil Piller, Varnsdorf, and Jan Pinkava, Prague, Czechoslovakia, assignors to Elite, Sdruzene tovarny puncoch, narodni podnik, Varnsdorf, Czechoslovakia, and Zavody pre chemicku vyrobu, narodny podnik, Bratislava, Czechoslovakia

Application June 1, 1949, Serial No. 96,592
In Czechoslovakia June 1, 1948
17 Claims. (Cl. 18—8)



1. Apparatus for drawing off artificial molten spun fibers from a spinneret having a discharge opening in its bottom, comprising at least three rotatably mounted rollers located below the spinneret having substantially horizontal axes; two of said rollers being vertically aligned and having their axes positioned equal amounts above and below, respectively, of said third roller; means for relatively shifting said third roller with respect to said two other rollers in a horizontal direction between an operative position in which the distance between the projections of the axes of said rollers in a horizontal plane is less than the sum of their radii, and an inoperative position in which the distance between the projections of the axes of said rollers on said horizontal plane exceeds the sum of their radii and in which the projection of the axis of said discharge opening on said horizontal plane is being located between and spaced from the projections of said rollers on said horizontal plane, permitting entering of a molten fiber between said rollers by the force of gravity in inoperative position of said rollers; and means for rotating all rollers, said third roller rotating in the opposite direction from said two rollers.

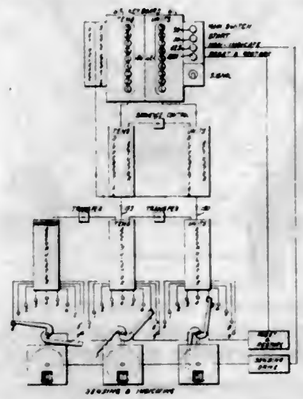
2,595,045

CALCULATING MACHINE

Joseph R. Desch and Robert E. Mumma, Dayton, Ohio, assignors to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application March 20, 1940, Serial No. 325,040
136 Claims. (Cl. 235—61)

132. In a device of the class described, the combination of means settable to represent a digit value; electron discharge means controlled by the means on which the digit value is set and operable to produce a group of impulses corresponding in number to the set digit value; and an accumulating device operated by the impulses of the group and including a plurality of elec-



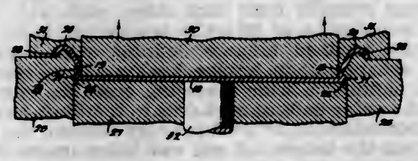
tronic devices and circuits interconnecting them for step-by-step operation in response to the impulses to accumulate amounts.

2,595,046

METHOD OF FORMING PAPER CLOSURE MEMBERS FOR PAPER CONTAINERS

Walter E. Amberg, Beverly Shores, Ind., assignor to Lily-Tulip Cup Corporation, Chicago, Ill., a corporation of Delaware

Original application September 24, 1948, Serial No. 51,043, now Patent No. 2,568,697, dated September 25, 1951. Divided and this application October 12, 1949, Serial No. 120,965
2 Claims. (Cl. 93—1.3)



1. The method of making a paper closure member for a paper container comprising the steps of forming a paper board blank into a closure end wall portion and an integral peripheral side flange portion, confining the end wall portion and a part of the flange portion remote from the juncture of the end wall and flange portions so as to leave an intermediate zone of said flange portion relatively unconfined, restraining said intermediate flange zone against inward radial movement while providing for limited restricted outward radial movement, and moving the confined end wall portion and the confined part of the flange portion toward each other to compress the material of the intermediate zone of said flange portion into a solid compressed external peripheral bead in substantial alignment with the end wall portion to produce a reinforced peripheral extension of the end wall portion.

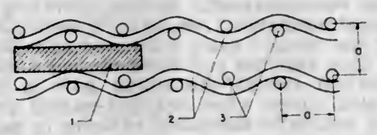
2,595,047

ACOUSTIC MATERIAL WHICH THERMODYNAMICALLY ABSORBS SOUND

Leo L. Beranek, Cambridge, Mass.

Application December 10, 1947, Serial No. 790,761
5 Claims. (Cl. 181—33)

5. An acoustic material for thermodynamically absorbing sounds by converting sound energy into heat which is in turn absorbed by said device, the material comprising an intersticed body having a multiplicity of openings of substantially uniform shape and size formed therein, said openings being bounded by opposite surface areas of said body, the spacing between said surface areas being such that the amplitude of the thermal wave created by the movement of sound waves along or over said surface areas travelling outward from each surface toward the other will have decreased at a point midway between said surface areas to approximately $\frac{1}{10}$ of the amplitude it has at the surface areas themselves at the frequency for which the maximum absorbing effect is desired, and where the term thermodynamically is restricted to refer to the physical phenomenon whereby mechanical energy imparted to a gas is converted into heat energy, the heat energy being in turn absorbed in the walls of an intersticed body in which the gas may be contained; the conversion taking place during a cycle of compression and expansion of the gas; the cycle taking place at such a rate that a curve for the cycle of the gaseous pressure plotted against the volume of the gas encloses substantial area; and the cycle taking place at a rate such that the acoustic power absorbed, i. e., the product of the rate, times the area is substantially near a maximum for that intersticed body.

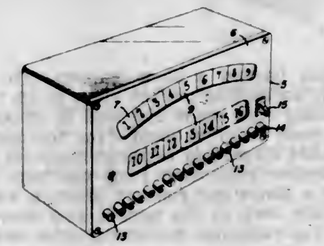


2,595,048

ANNUNCIATOR FOR GAMES

Anthony A. Bielicki, Wilmington, Del.

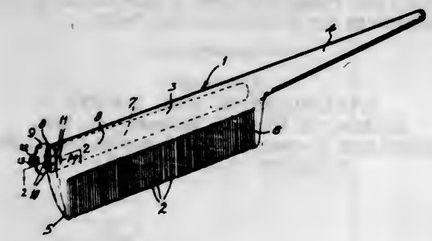
Application January 17, 1949, Serial No. 71,293
8 Claims. (Cl. 177—384)



1. An annunciator for games comprising a casing with windows, each displaying a character, an illuminating means for each of the windows, adapted to display said character, an energizing circuit for each of said illuminating means, a mechanically operated snap switch in each of the energizing circuits with a plurality of contact pairs, provided with a switch member adapted to occupy two switching positions and subjected to elastic tension, said member controlling the contact between the aforesaid contact pairs, one of said contact pairs being open and the other being closed in each position, all of said switch members and switches being aligned, mechanical means for producing a mechanical action on said member in two opposite directions, said mechanical means including individual mechanical means for producing action in one direction and a common

mechanical means for producing action on all the aligned switch members simultaneously in the other direction, the said individual mechanical means and the common mechanical means being arranged on opposite sides of the switch member, electromagnetic devices for operating each of said individual mechanical means for producing a movement of the switch member in one direction, said movement closing the contact pairs controlling the energizing circuit of the illuminating means, and a further electromagnetic device operating the common mechanical means for resetting all the switches into their original positions, energizing circuits for the said electromagnetic devices, the energizing circuits for the electromagnetic devices operating said individual mechanical means being controlled by one of the contact pairs associated with the allotted snap switches and being opened when the illumination circuit controlling pair is closed and being closed when the last-named pair is opened, manually controlled switches in each of said energizing circuits for the devices operating said individual mechanical means and a manually controlled energizing circuit for the electromagnetic device operating the common mechanical means, producing a simultaneous resetting movement of all the switch members.

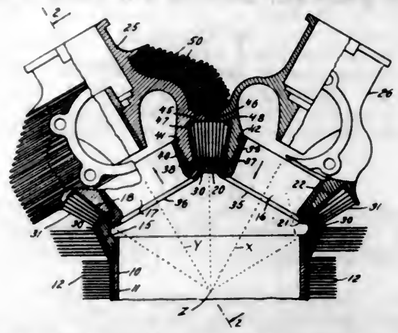
2,595,049
COMB
Kermit E. Boissoneau and Joanne I. Boissoneau, Davenport, Wash.
Application January 20, 1950, Serial No. 139,714
1 Claim. (Cl. 132—79)



A comb having a back formed with a longitudinally extending pocket open at its front end and having side walls disposed in opposed relation to each other, a closure for the open end of said pocket formed of resilient material and having a tongue extending from one side and bent to form a hinge ear passing through an opening in one side wall of the pocket and mounting the closure for swinging movement into and out of a closed position, and a tongue extending from the free side edge of said closure and bent back across the inner surface of the closure to form a latch extending in diverging relation thereto and having a free end bent to form a bill serving as a cam to guide movement of the bill along the outer surface of the other side wall of the pocket and into a recess formed therein to releasably hold the closure closed.

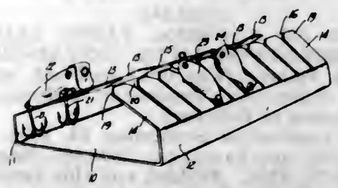
2,595,050
INTERNAL-COMBUSTION ENGINE
Wilhelm B. Bronander, Montclair, N. J.
Application July 3, 1945, Serial No. 603,070
7 Claims. (Cl. 123—41.69)

4. A cylinder head having an exhaust port and an exhaust valve seat therein, and cooling fins carried by said head and disposed substantially concentrically with relation to the axis of said exhaust valve port and seat and disposed within



surfaces of revolution described by radii moved in circles about a center disposed on said axis.

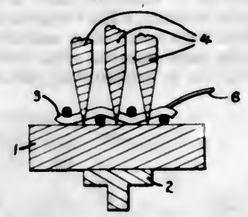
2,595,051
TACKLE HOLDER
Claude F. Bryant, Shreveport, La.
Application August 11, 1949, Serial No. 109,690
1 Claim. (Cl. 43—57.5)



A tackle holder comprising a single sheet of material having a flat base and vertical side walls spaced laterally from each other, each wall having a plurality of laterally spaced yieldable upwardly inclined tongues defining slots between the tongues, each tongue having a free tapered end defining a wide diverging entrance opening at the outer ends of said slots to facilitate the insertion of hooks of a fishing lure therein, the free ends of the tongues of one wall being spaced from and converging toward the inner ends of the tongues of the other wall, the inclined position of the tongues constituting an inclined support for the body of a lure in a manner whereby the hooks carried by the lure will be suspended through and below the slots between the tongues to shield and protect the hooks from injury, the inclined tongues also facilitating the automatic sliding of the lures toward the side walls of the holder by the pull of gravity to secure the lures to the holder when a lure is fitted upon the tackle holder and is released from the fingers of a user, the yieldable nature of said tongues facilitating the depression of the tongues of one wall while removing a lure from between the tongues of the opposite wall to prevent the entangling of the hooks thereof with the tongues of the opposite wall and the lures carried by the tongues of the opposite wall.

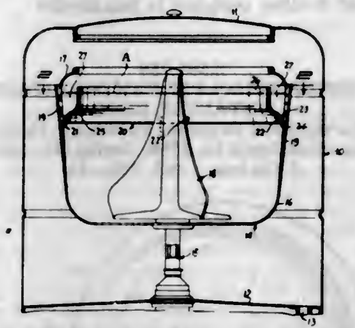
2,595,052
CRYSTAL AMPLIFIER
Ezio T. Caselliní, Salem, Mass., assignor to Sylvania Electric Products Inc., Salem, Mass., a corporation of Massachusetts
Application July 23, 1948, Serial No. 40,259
9 Claims. (Cl. 175—366)

1. A semi-conductor unit comprising a semiconducting crystal, a metallic mesh grid on the surface thereof and catwhisker contacts to said crystal and passing severally through apertures



in said grid close to but out of direct contact with said grid.

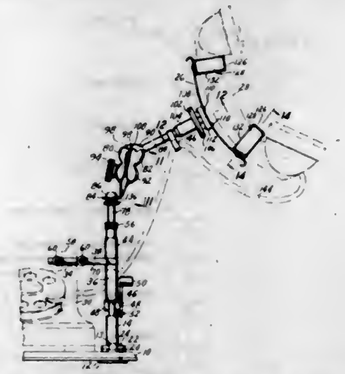
2,595,053
WASHER WITH SCUM ACCUMULATOR
George P. Castner, Webster City, Iowa, assignor to Solar Corporation, Milwaukee, Wis., a corporation of Delaware
Application March 25, 1946, Serial No. 656,867
2 Claims. (Cl. 68—23)



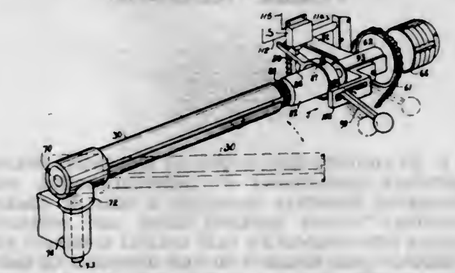
2. In a washing machine having a tub to contain a washing liquid and material to be washed and means for agitating the liquid and material, means forming a scum accumulating chamber around the inside of the tub below the upper edge thereof consisting of an annular imperforate member secured inside the tub in spaced relation thereto and extending upwardly from beneath to above the liquid level in the tub but terminating below the level of the upper margin of the tub so that scum on the surface of the liquid will be thrown outward over the upper edge of the annular member by the agitation of the liquid and materials.

2,595,054
ACCESSORY FOR USE WITH TELEPHONES
Sanford C. Chesick, Hartford, Conn.
Application July 3, 1948, Serial No. 36,941
13 Claims. (Cl. 179—150)

1. In an accessory for use with a telephone, the combination of a vertical post, means for attaching the post to a horizontal support for the base of a telephone which base has a vertically movable button for opening and closing the telephone circuit, a holder for a combined telephone transmitter and receiver, connections between the upper end of the post and the holder for supporting the latter on the former, a vertically movable sleeve surrounding the post below the said upper end thereof which sleeve carries a horizontally extending arm adapted to engage the movable button on the telephone base, a spring for moving the sleeve and arm downward to thereby move the button to its lower open-circuit position, and a manually movable eccentric carried by the post below the sleeve for engaging the sleeve to move it and the arm upward in opposition to the spring so as to release the button and permit it to move to its upper closed-circuit position.



2,595,055
ROLL-HANDLING AND CONTROL MECHANISM FOR CLOTH INSPECTING MACHINES
Elmer F. Clark and Leland F. Remington, Worcester, Mass., assignors to Curtis & Marble Machine Company, Worcester, Mass., a corporation of Massachusetts
Application January 24, 1949, Serial No. 72,432
5 Claims. (Cl. 242—55)

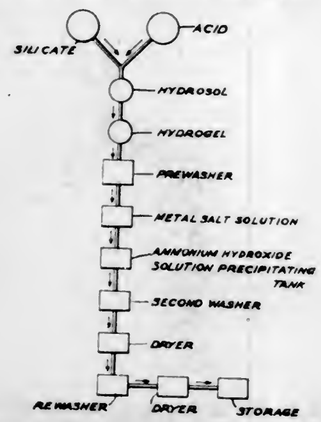


2. In a cloth inspecting machine, a winding arbor, spaced bearing means to support one end of said arbor for swinging movement in a substantially horizontal plane only, a motor to drive said machine and arbor, and manual means effective to axially separate said supporting and driving mechanism from said winding arbor, thereby leaving said arbor free to swing forward for cloth removal.

2,595,056
PREPARATION OF A SILICA-METAL OXIDE GEL CATALYST
Gerald C. Connolly, Baltimore, Md., assignor to Standard Oil Development Company, a corporation of Delaware
Application January 27, 1949, Serial No. 73,153
5 Claims. (Cl. 252—455)

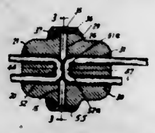
1. A process for preparing a synthetic gel comprising silica and a metal oxide which comprises forming a substantially pure silica hydrogel, soaking said hydrogel in a metallic salt solution until the hydrogel is thoroughly impregnated with metallic salt solution, thereafter draining excess salt solution from the hydrogel, treating the impregnated hydrogel with a volatile base in an amount insufficient to react completely with

all of said salt but sufficient to react with a major portion of said salt whereby said gel remains



acid, washing the resulting product and drying the resulting washed product.

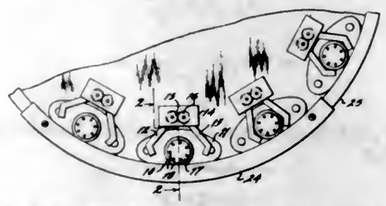
2,595,057
COUPLING
William A. Cotter, New York, N. Y., assignor of thirty-three and one-third per cent to Carl S. Epps and thirty-three and one-third per cent to Irving Epps, both of Brooklyn, N. Y.
Application April 2, 1948, Serial No. 18,640
8 Claims. (Cl. 287—76)



4. In combination, a pair of elongated flexible members and means for interconnecting said elongated members including a pair of coaxial members having opposed faces and rotatable means interconnecting said coaxial members and adapted upon rotation in one direction to move one of said coaxial members towards the other of said coaxial members, each of said coaxial members being formed with a pair of passages extending to the face of said coaxial member, portions of each of said elongated members being disposed in the passages of each of said coaxial members and bight portions interconnecting the portions disposed in said passages being disposed between the opposed faces of said coaxial members, whereby rotation of said rotatable means in said direction will cause the said bight portions of the elongated members to be locked relative to each other between the opposed faces of said coaxial members.

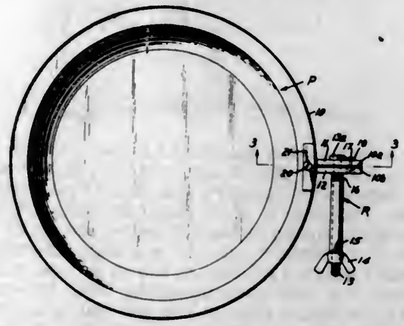
2,595,058
LOADING STOP FOR ELECTRON TUBE MAKING MACHINES
Charles W. Daley, Indianapolis, Ind., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1949, Serial No. 118,828
9 Claims. (Cl. 49—2)

1. A machine for sealing electron tube envelope parts comprising a plurality of heads rotatable in a common circular path, a chuck on each of said heads having an upper surface lying in a horizontal plane and adapted to receive lead-ins extending from a loosely held assembly comprising a tube mount and a bulb for orienting said mount with respect to said chuck, and a loading stop extending adjacent a plurality of said heads, said loading stop having an upper surface lying in a horizontal plane and spaced



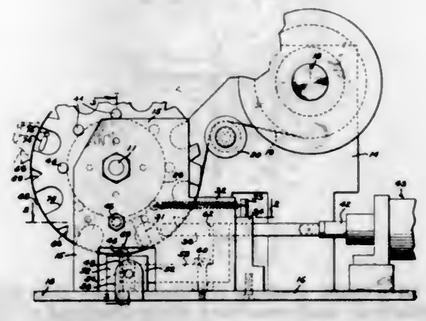
vertically above said upper surface of said chuck for engaging an end of said bulb at any one of a plurality of different positions of said chuck for spacing said bulb a predetermined distance above said sealing pin, whereby a normal loading of said assembly on said chuck in a predetermined sealing position is facilitated.

2,595,059
COMBINATION PIE PAN AND JUICE RETAINER RING
Martin Paul Deming, Pasadena, Calif.
Application April 14, 1950, Serial No. 156,029
2 Claims. (Cl. 220—4)



2. An improved closing device for the meeting ends of a split pie juice retaining ring of plain sheet metal which has the meeting ends of said ring turned or bent outwardly approximately parallel to the extended radius of said ring, to form wings, each of said wings being reinforced by a metal plate on the outer faces of aforesaid wings, each of aforesaid wings and metal plates having a bolt hole therethrough, each in alignment with the other, a square head bolt positioned therethrough, then through an expansion coil spring, a metal tube and a wing nut placed on the end of aforesaid square head bolt, one of the first mentioned wings together with its reinforcing plate having a second hole spaced on the outer side of the aforementioned bolt hole, the shaft of a round head bolt passing therethrough and having a nut thereon positioned in contact with the square head of the first mentioned bolt, the other of the first mentioned wings together with its reinforcing plate containing a round hole of the same diameter as the head of said round head bolt and in alignment therewith, and a pie pan having a rim encircled by said ring with a small portion of said rim permanently raised at the meeting ends of the aforesaid split pie juice retaining ring.

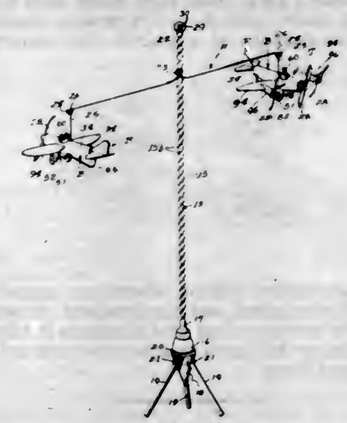
2,595,060
PRESSURE-SENSITIVE TAPE DISPENSING MACHINE
Alfred L. Dixon and Howard W. Gore, Western Springs, and James W. Rice, Hinsdale, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application October 17, 1947, Serial No. 780,386
2 Claims. (Cl. 164—73)



1. A dispenser for tacky tape comprising a base, a feed wheel rotatably mounted on said base and having a plurality of spaced apart tape-supporting surfaces for feeding tape adhered to said surfaces, clutch means operatively connected to said feed wheel in radially spaced relation to the tape-supporting surfaces and including an oscillatable member for rotating said feed wheel in one direction through a predetermined arc, a cutting member having a cutting edge for cutting said tape, a guideway on said base for guiding said cutting member for movement across the tape on said feed wheel in a direction parallel to the axis of said wheel to cut said tape into sections, a lever pivotally mounted on said base and operable to move the cutting member in one direction to cut said tape, spring means stressing said cutting member for movement in the opposite direction, an actuating member mounted on said base for reciprocable movement operable to actuate said oscillatable member to effect the rotation of said feed wheel, and a cam on said actuating member engageable with said lever and operable in response to reciprocation of said actuating member to rock said lever and cause the movement of said cutting member transversely across the tape in timed relation to the rotation of said feed wheel to cut said tape.

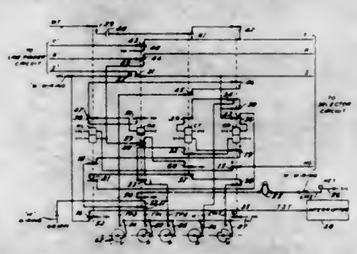
2,595,061
TOY ROUNDABOUT
William H. J. Downey, Wilmington, Del.
Application December 9, 1947, Serial No. 790,645
2 Claims. (Cl. 272—31)

1. In a toy of the character set forth, a standard formed to provide a continuous thread spiral of constant diameter throughout the length of the standard, the threads being closely formed to provide a short pitch, and a toy suspending unit comprising a pair of arms substantially in longitudinal alignment and a joining portion between the arms, said joining portion comprising an open spiral loop disposed to one side of the substantially aligned arms and encircling the standard and lying in part in the space between two adjacent thread convolutions, one end of the loop being arranged to ride on the edge of the thread and the other end of the loop being arranged to run in the space between the said adjacent convolutions of the thread, the outer ends of the



arms being designed to support freely suspended swinging toys.

2,595,062
TELEPHONE CONVERSATION TIMING MEANS
George Elliott, Rochester, N. Y., assignor to Stromberg-Carlson Company, a corporation of New York
Application December 12, 1949, Serial No. 132,618
10 Claims. (Cl. 179—7.1)

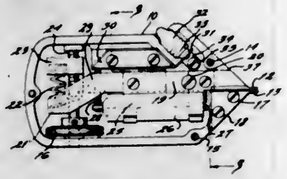


1. In an automatic telephone system, a calling line, a called line, means for extending a call from said calling line to said called line, a start relay, means at the called end of said extended call effective upon the answering of said call to close a circuit for energizing said start relay, said start relay being operative in response to the closure of said circuit to initiate conversation timing, time pulse generating means, a source of warning tone, change-over relay means, said relay means being effective under the control of said pulse generating means to release said start relay, prepare a warning tone circuit from said tone source to said lines and place said start relay under the control of said pulse generating means, said start relay being effective upon re-energization under the control of said pulse generating means to complete said warning tone circuit.

2,595,063
PRESSURE GAUGE
William T. Engel, Union, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 18, 1949, Serial No. 122,075
8 Claims. (Cl. 177—311)

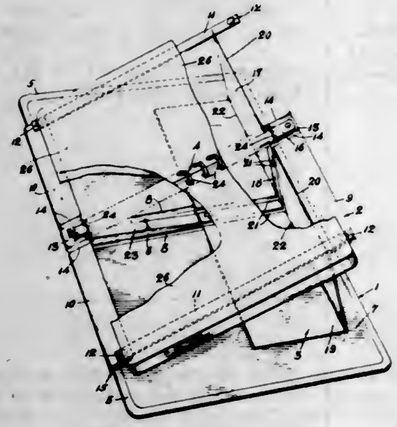
1. A pressure indicating apparatus including a pair of relatively movable elements to be inserted

between two resiliently mounted members urged toward each other, and resilient means for urging said elements away from each other with a predetermined force, one of said elements comprising a movable contact of a switch for opening and



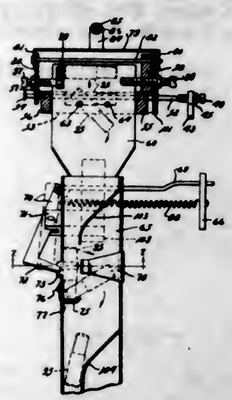
closing an electric circuit, whereby a lamp in said circuit is energized and deenergized in response to relative movement of said elements for indicating a pressure between said members of said predetermined force.

2,595,064
DISPLAY BINDER
Elmer W. Ericson, Chicago, Ill.
Application March 19, 1948, Serial No. 15,820
3 Claims. (Cl. 281—33)



1. A display binder, including a cover consisting of a pair of side panels having their inner longitudinal portions swingably connected, endwise opposed and hingedly connected stiff bottom strips hingedly connected along their lower sides to lower side portions of said side panels, complemental stiff outer side strips fixed at their lower ends to the outer ends of each of said endwise opposed bottom strips and disposed at substantially right angles thereto inwardly of the outer and free sides of said side panels, endwise opposed and hingedly connected stiff top strips fixedly connected at their outer ends to the upper and free ends of the stiff outer side strips and disposed at substantially right angles thereto inwardly of the upper sides of said side panels, and a substantially flat and stiff leg panel hinged at its upper end to the endwise opposed top strips, said leg panel being foldable longitudinally of itself adjacent the swingably connected inner portions of the side panels, and the width thereof being greater than the distance between the stiff outer side strips whereby the same, in one position, lies flatly adjacent and over said outer side strips.

2,595,065
STUD FEEDING MACHINE
John Evasic, Detroit, Mich.
Application August 28, 1947, Serial No. 771,100
7 Claims. (Cl. 10—162)

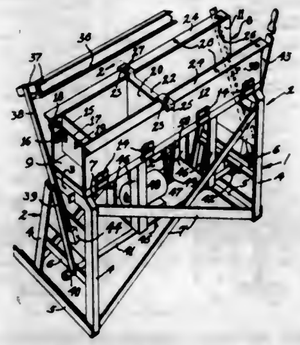


1. In a stud feeding mechanism of the class described, a stud-receiving chute inclined to the vertical for receiving studs in end-to-end relation, a plate at the lower end of said chute inclined to the vertical and at right angles to said stud-receiving chute adapted for receiving studs in side-by-side relation passing from the lower end of said chute, an upper plate overlying said first named chute in spaced parallel relation, a pair of aligned stud engagement members having pointed ends projecting outwardly from opposed faces of each of said plates in spaced relation, the engagement members of each pair being in a line incident to the path of travel of the studs through said chute and the studs being delivered onto the first named plate with their longitudinal axes parallel to a plane passing through the aligned engagement members on said plate, the opposed engagement members being spaced apart a distance sufficient for permitting the threaded portion of a stud to pass therebetween and preventing the non-threaded portion of the stud passing therebetween, a chute projecting downwardly from said first named plate adapted for reception of a stud passing from said plate, and an agitator for agitating said plate for causing a stud thereon to pass into said chute.

2,595,066
CONCRETE BLOCK MOLDING MACHINE
Lester T. Ferrin, Tonasket, Wash.
Application February 20, 1950, Serial No. 145,130
5 Claims. (Cl. 25—88)

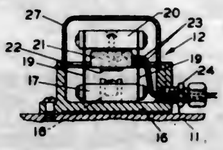
1. A block-forming machine comprising a box having a bottom, front and rear side walls, one side wall being hinged along its lower edge to a side edge of the bottom for pivotal movement to raised and lowered positions, an end wall hinged to one side wall and movable into and out of a closed position between end portions of said side walls, a fastener extending between said side walls and across the outer surface of said end wall and releasably holding the end wall closed and the movable side wall in its raised position, strips extending along upper edges of said side walls and having outstanding flanges formed with openings spaced from each other longitudinally thereof, the bottom being also formed with longitudinally spaced openings, an adjustable end wall disposed in said box between the

side walls and being bodily shiftable longitudinally of the box, a cross bar mounted along the upper edge of the adjustable end wall and having end portions projecting therefrom and forming ears resting upon and extending across the flanges of said strips, pins extending downwardly from the lower edge face of said adjustable



end wall and from said ears and fitted into selected openings of the bottom and the flanges of said strips and detachably holding the adjustable wall in predetermined spaced relation to the first end wall, and means for applying pressure to block-forming material in the box between the side walls and the end walls.

2,595,067
INERTIA TYPE VIBRATORY PICKUP
James A. Flint, Bexley, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application February 23, 1950, Serial No. 145,665
1 Claim. (Cl. 171—209)

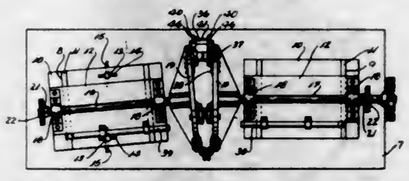


An inertia type magnetic pick-up for use in measuring the amplitude of vibration of a member vibrating along an axis by being vibrated along said axis including a base block of electrical insulating material, means for mounting said base block on said member, a permanent magnet in the center of said insulating block having opposite pole faces facing outwardly from said base block and lying in planes extending parallel to said axis of vibration, a pair of electrically conductive cantilever leaf springs spaced one at each of opposite sides of said insulating base block, means mounting one end of each of said springs to said insulating base block, said springs extending in planes spaced apart along said axis of vibration and intersecting it at right angles, an inertia block of electrical insulating material spaced from said base block of insulating material and positioned between the ends of said springs opposite said base block, means connecting said opposite ends of said springs to said inertia block, a coil assembly, means mounting said coil assembly upon said inertia block whereby the weight of said coil assembly is added to that of said inertia block and with said coil assembly between said inertia block and said base block, said coil assembly including a coil having two electrical conductors leading therefrom one to each of said leaf springs, and a core of magnetic material, said core being spaced from said permanent magnet whereby when said base is vibrated along said axis of vibration an electrical voltage is generated in said coil, and an electrical conductor connector means associated with each of said leaf springs adjacent said base block of insulating material.

2,595,068
PRODUCTION OF PENICILLIN SALTS
Erling Frederiksen, Holte, and Erling Juhl Nielsen, Charlottenlund, Denmark, assignors, by mesne assignments, to American Cyanamide Company, New York, N. Y., a firm
No Drawing. Application July 1, 1948, Serial No. 36,429. In Denmark December 10, 1947
3 Claims. (Cl. 260—239.1)

1. A method of preparing sodium penicillinate which comprises adding sodium perchlorate to a solution of potassium penicillinate in substantially anhydrous methanol, separating the soluble from the insoluble matter, reducing the volume of the solution and recovering by crystallization sodium penicillinate.

2,595,069
ROTARY CYCLIC STRESS TESTING APPARATUS
Howard E. Fritz, Ghent, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 22, 1948, Serial No. 28,717
8 Claims. (Cl. 73—92)

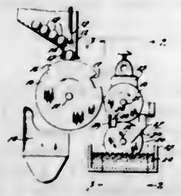


3. Apparatus for testing the resistance of flexible articles to cyclic stresses, said apparatus comprising shafts mounted for rotation about axes inclined one to the other, end structures mounted on said shafts, mounting stations disposed at circumferentially spaced positions on said end structures about the axis thereof and clamping means at each of said stations for supporting the articles between said end structures for movement with said structures and means for rotating said shafts to impose cyclic stresses on said articles by virtue of relative inclination of said shafts as the articles are moved bodily about the axes of said shafts.

2,595,070
INK TRANSFER DEVICE
Eugene Garrahan, Harrison, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 2, 1948, Serial No. 12,507
6 Claims. (Cl. 101—350)

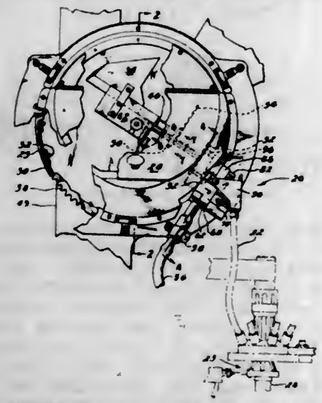
2. An ink transfer device comprising two rollers, an ink reservoir receiving a portion of one of said rollers, supports for said rollers, one of said supports being movable with respect to the other for adjustably supporting said rollers on spaced parallel co-extensive axes for rotation in opposite angular directions, a scraper engaging peripheral and end surfaces of said one of said rollers, said scraper and the other of said rollers being

mounted on said other of said supports, whereby adjustment of said supports controls separation of peripheral surfaces of said rollers and separation of said scraper from said one of said rollers for determining the amount of ink transferred to said other roller, and two additional scrapers engaging end surfaces of said other roller at a



portion thereof angularly displaced from the plane of said axes in the direction of rotation of said other roller for preventing ink transfer from said end surfaces to the peripheral surface of said other roller, said additional scrapers being mounted on the support for said other rollers, whereby said adjustment leaves the effectiveness of said last-named scrapers unimpaired.

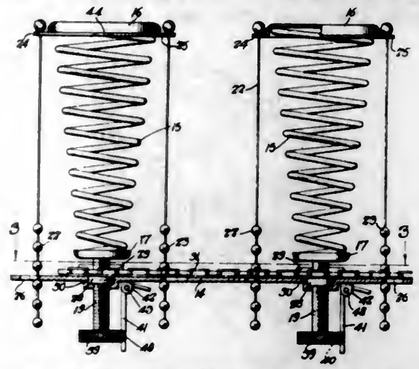
2,595,071
PIN FEEDER
Stanley J. Gartner, Emporium, Pa., assignor to Sylvania Electric Products, Inc., a corporation of Massachusetts
Application October 16, 1947, Serial No. 780,213
6 Claims. (Cl. 10—162)



1. A pin feeder comprising an inclined supply chute for supplying a continuous stream of pins in endwise abutment, an abruptly operative slide reciprocable at right angles to said chute and forming the under side of the lower end thereof and effective in operation to throw pins laterally and individually upward from their path along said supply chute, a second chute positioned laterally of said first chute, and a fixed deflector positioned above said slide and in the path of said thrown pins to direct said pins laterally toward said second chute.

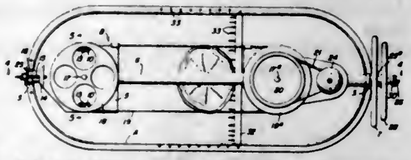
2,595,072
ADJUSTABLE RESILIENCY BEDSPRING
Victor H. Gottschalk, York, Pa.
Application March 22, 1948, Serial No. 16,242
4 Claims. (Cl. 5—248)

1. In an adjustable tension spring assembly, the combination which comprises a substantially flat frame with spaced openings therethrough, sprockets with internally threaded hubs journaled in said openings of the frame, adjusting screws threaded in the hubs of the sprockets, spring seats carried by the adjusting screws, springs positioned on said spring seats, caps car-



ried by the springs, means adjustably connecting the caps to the frame independently, a crank actuated sprocket journaled in the frame, and a chain trained over the sprockets on the adjusting screws and crank actuated sprocket for adjusting the tension of the springs.

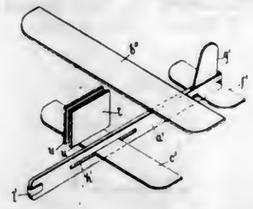
2,595,073
BAND SAW LOG COPING SAWING MACHINE
Frederick Griffith, Hillman, Mich.
Application January 5, 1950, Serial No. 136,882
4 Claims. (Cl. 143—26)



4. A log coping sawing machine comprising an open oblong frame, a sawing unit rotatably mounted in the frame for rotation about an axis longitudinally and medially disposed relative to said frame and including a motor driven saw band having a run located to one side of and parallel with the axis of rotation of said unit to cut a substantially half round notch in a log when the unit is rotated and the saw band is driven, manually operable means to rotate the sawing unit, means mounting the sawing unit for lateral adjustment relative to the longitudinal axis of and in a plane parallel to the plane of said frame, manually operable means to laterally adjust said unit for varying the radius of the cut made by the saw band, said last-named means including transverse rack bars carried by the sawing unit, and an operating shaft journaled in the frame concentric with the axis of rotation of the sawing unit and having pinions secured thereon in mesh with said rack bars.

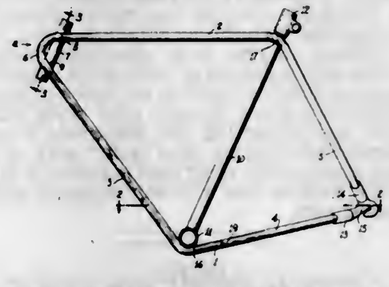
2,595,074
MODEL AIRPLANE GLIDER
Paul K. Guillow, Wakefield, Mass.; Gertrude H. Guillow, Wakefield, Mass., executrix of said Paul K. Guillow, deceased
Application March 23, 1948, Serial No. 16,477
3 Claims. (Cl. 46—79)

1. A model airplane consisting of a body and a wing assembly, said body having a transverse slot extending from side to side in its mid length portion, said wing assembly consisting of upper and lower wings and at least one connecting strut for maintaining said wings in spaced relation, said lower wing being frictionally engaged



in said slot and projecting from both sides of said body, said slot being longer than the width of the lower wing, whereby said wing assembly as a unit can be adjustably displaced lengthwise of said body.

2,595,075
CYCLE FRAME OR THE LIKE
John Leonard Henderson, London, England
Application February 27, 1948, Serial No. 11,641
In Great Britain January 15, 1948
2 Claims. (Cl. 219—10)

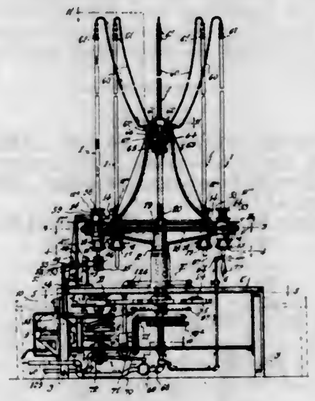


1. The process of manufacturing a cycle frame which comprises bending two tubular bars into substantially similar loops to thereby form two substantially coextensive frame parts, placing between said frame parts means forming respective accessory members of said cycle frame, whereby said frame parts are spaced from each other and arranged in side by side relation, indenting said tubular bars and said accessory members at predetermined locations thereof to thereby nest said members in said tubular bars and to bring about an interlocking effect therebetween, and finally jointing said frame parts together with said accessory members, respectively, while heat and pressure are applied at said nesting locations of said members through electrodes of an electric resistance welding machine.

2,595,076
SELECTIVE FLOTATION OF ZINC
Luther G. Hendrickson, Percy L. Dixon, and Burton E. Lyle, Flin Flon, Manitoba, Canada, assignors to Hudson Bay Mining and Smelting Co., Limited, Winnipeg, Manitoba, Canada, a corporation of Canada
No Drawing. Application September 19, 1949, Serial No. 116,612
2 Claims. (Cl. 209—167)

1. A process for the separation of zinc sulphide minerals from pulps containing said minerals and other metallic sulphides and non-sulphides comprising: de-activating the mineral particles in the pulp by aeration at a temperature of from about 80° C. to about 100° C. and violent agitation for an extended period of time; selectively re-activating the sulphide mineral particles at a temperature of from about 60° C. to about 80° C. by treatment of the pulp with an alkalizing agent with aeration and gentle agitation, and addition of copper sulphate with gentle agitation; and floating the zinc sulphide minerals under conditions of gentle agitation.

2,595,077
METHOD AND MACHINE FOR MANUFACTURING AMPOULES
Floyd H. Hughes, Union, and Gregory J. Murray, Belleville, N. J., assignors to Hughes-Murray, Inc., Newark, N. J., a corporation of New Jersey
Application June 17, 1948, Serial No. 33,514
9 Claims. (Cl. 49—1)



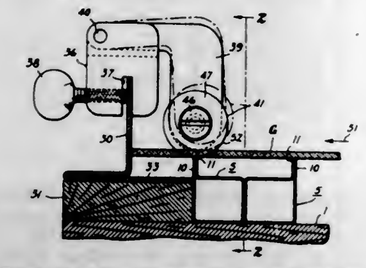
7. A machine for making from glass tubes ampules having bodies and reduced necks, comprising a frame, a tube holder for supporting a glass tube with one end portion depending from the holder, heating means on said frame for softening the side walls of the tube from the lower end thereof upwardly a substantial distance, a mold for enclosing the softened end portion of the tube and having a cavity whose walls correspond in shape and size to the desired bottom and side walls of the ampules, means for injecting air into the other end of said tube while said softened portion is within the mold to force said softened portion into snug contact with the walls of the mold cavity to form said bottom and side walls of said body, heating means on said frame to soften the wall of said tube in a zone continuing upwardly from the upper end of said molded body, means on said frame and cooperative with said holder for stretching said softened zone longitudinally to form a reduced portion the wall of which is substantially less in thickness than the original thickness of the tube wall, and means for moving said tube holder to convey said depending end of the tube from the first-mentioned heating means to said mold, thence to the second-mentioned heating means and thereafter to said means cooperating with the holder for stretching the tube, all portions of the ampule thereby passing through a molten state during the production of the ampule.

2,595,078
DIELECTRIC WAVE GUIDE
Harley Iams, Venice, Calif., assignor to Radio Corporation of America, a corporation of Delaware
Application May 28, 1948, Serial No. 29,853
5 Claims. (Cl. 178—44)



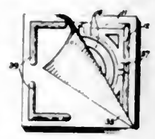
2. In a system for transferring wave energy of a given frequency from a source to a load, the combination comprising a dielectric rod of oblong cross-section having a maximum dimension substantially less than the minimum which supports propagation in the next dominant mode at the given frequency, means applying energy from said source to said rod to propagate said energy along the rod in the dominant mode, a conductive shield at least partly surrounding said rod and spaced therefrom by a distance substantially greater than the cross-sectional dimensions of said rod, and means supporting said rod within said shield.

2,595,079
GAUGE STOP FOR GLASS TABLES
Oliver M. Itaya, Cleveland, Ohio, assignor to The F. C. Russell Company, Cleveland, Ohio, a corporation of Ohio
Application November 5, 1947, Serial No. 784,191
6 Claims. (Cl. 33—18)



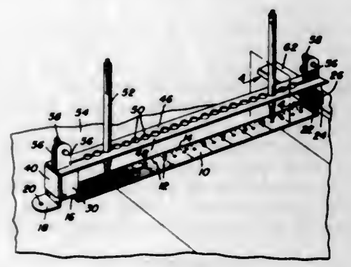
6. In a glass cutting table combination, means for supporting a sheet of glass for generally horizontal movement to different positions, a rail, a stop comprising a body member mounted on the rail and movable to different positions therealong, an arm, means mounting the arm on the body member for swinging movement about a generally horizontal axis, a roller journaled on the arm for rotation about a generally horizontal axis below the swing axis of the arm, the roller axis being in fixed relation to the arm, and stop means limiting the downward movement of the arm to locate the roller substantially wholly above the glass supporting means, the roller having a substantially flat side face disposed substantially normal to the plane of a supported glass sheet for engagement by such sheet to limit the movement of the sheet in locating the sheet on the table, and the roller having a substantially circular peripheral face for engagement by the edge of a supported sheet, the roller being normally disposed and supported so that the peripheral face thereof is disposed at an oblique angle to the plane of a supported glass sheet for riding over the edge of such a sheet when the latter is moved against the peripheral roller face in shifting the sheet on the table.

2,595,080
PRODUCTION OF ARTISTIC DESIGN USING WICKING WET WITH A METALLIC SALT SOLUTION THAT FORMS A COLOR ON EXPOSURE TO LIGHT
Louis Jackson, New York, N. Y.
Application November 25, 1947, Serial No. 788,007
1 Claim. (Cl. 8—14)



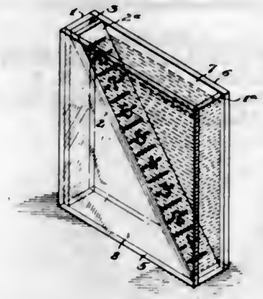
The process of producing artistic colored designs on absorbent material which comprises, positioning a plurality of strips of absorbent wicking on a support, said strips being positioned thereon with respect to each other, in accordance with the arrangement of colored areas which is to comprise said colored design to be produced on said absorbent material, wetting said strips of wicking with a color producing solution, positioning the absorbent material on which the colored design is to be impressed on said support, said absorbent material being in contact with said wet wicking, allowing said absorbent material to remain in contact with said wicking until said color producing solution has moved throughout said absorbent material by capillary action, from said wicking, drying said absorbent material, repeating said sequence of operations utilizing as the color producing solution an aqueous solution of a metal salt which changes color when exposed to light, and subjecting said absorbent material to illumination during said latter part of said process wherein said absorbent material is in contact with wicking wet with said aqueous solution of a metal salt.

2,595,081
QUILT MARKER
Ora Zoe Dell Johnson, Mutual, Okla.
Application March 29, 1948, Serial No. 17,787
6 Claims. (Cl. 33—27)



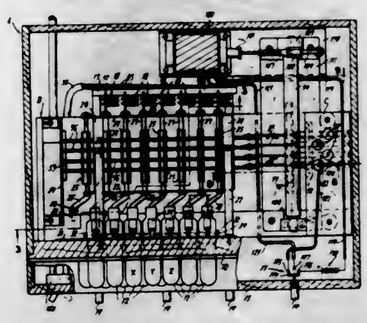
1. A quilt marker device comprising an elongated base, a pair of relatively movable elongated clamping members overlying and carried by the base in substantially parallel relation thereto, means for urging said clamping members towards each other to clamp a plurality of pencils therebetween, the adjacent sides of said clamping members having longitudinally spaced pairs of cooperating pencil receiving notches therein, said base having a plurality of spaced apertures therethrough for receiving the lower ends of pencils clamped by the clamping members.

2,595,082
SIMPLE TURBIDITY MEASURING DEVICE
Zoltan Imre Kertesz, Geneva, N. Y.
Application April 25, 1950, Serial No. 158,011
1 Claim. (Cl. 88—14)



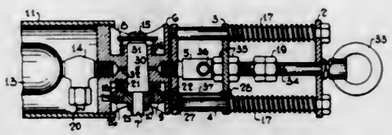
A turbidity measuring device embodying a duplex invertible liquid container comprising a rectangular box-like body having parallel transparent front and rear walls, parallel side walls, and being open at top and bottom, and a graduated scale plate extending diagonally from the bottom of the front wall to the top of the rear wall in liquid-tight sealing engagement with said front and rear walls and with both side walls and dividing the interior of the body into two identical wedge shaped liquid containable compartments, said scale plate being viewable through either of the front and rear walls, the open top serving as a filling opening for one compartment when the other compartment is empty and the open bottom is serving as a supporting base, and the latter serving as a filling opening for the other compartment when the device is inverted and the open top first mentioned becomes a base.

2,595,083
MASTER OR CENTRAL STATION CONTROLLER
Eugene R. Kilgen, University City, Mo.
Application April 9, 1951, Serial No. 219,947
17 Claims. (Cl. 171—97)



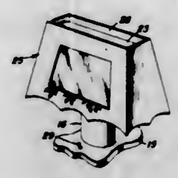
17. A control system for selecting individual controllable devices for group response comprising angularly movable selecting means for each of the devices, a plurality of group control means for actuating the selecting means in preselected groups, memory means on each of said group control means for movement into and out of positions preselecting and repeating the desired group response of the devices, and means operating each of said group control means to obtain the group response of the devices, said memory means on the operated one of said group control means operating said selecting means to clear the group response of all devices not preselected for such response.

2,595,084
FLUID SAMPLER FOR WELL BORES
Monroe W. Kriegel, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application September 16, 1947, Serial No. 774,313
2 Claims. (Cl. 166—1)



1. A device for taking fluid samples from a well bore comprising a head section, a first valve contained in said head section and provided with at least two fluid ports, a sample container detachably connected to said head section, said sample container having an opening fitting into one of said fluid ports in said head section valve, a second valve in said sample container adapted to close said opening, vertical guide rods attached to said head section, a fixed plate attached to the top of said guide rods and provided with a central opening, a bolt slidably fitted into said central opening, a movable plate attached to the bottom of said bolt, spring means placed between said fixed plate and said movable plate, means for attaching said bolt to a suspending cable, and means for communicating motion from said movable plate to said head section valve whereby said last-named valve will be actuated upon the imparting of a jerking motion to a supporting cable to which said bolt is attached.

2,595,085
ORNAMENTAL AQUARIUM
Fred Y. Kuriyama, Waianae, Oahu, Territory of Hawaii
Application October 24, 1949, Serial No. 123,143
4 Claims. (Cl. 119—5)



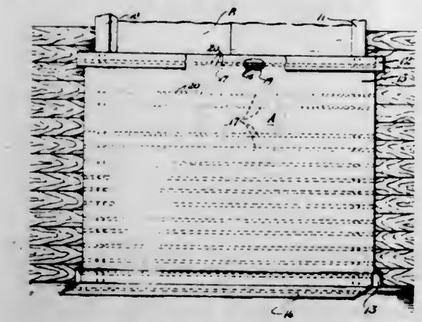
4. In a combination table lamp and ornamental aquarium, a pedestal, an elongated plant box above said pedestal for growing plants therein, a transparent water tank above said box, means on said pedestal supporting said box and tank, said box extending outwardly beyond the sides of said tank for growing plants therein to extend upwardly alongside the tank, a tubular light fixture, and means rising from said first-named means and supporting said fixture horizontally above said tank to illuminate the tank through the water therein to diffuse dim light rays outwardly of the sides of the tank for illuminating the plants extending alongside the tank.

2,595,086
SURGICAL INSTRUMENT
Henry B. Larzelere, Flint, Mich.
Application November 30, 1948, Serial No. 62,684
6 Claims. (Cl. 128—326)



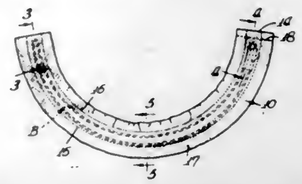
2. A surgical instrument for tying ligatures comprising a slender shaft having axially spaced obstructions thereon for preventing lengthwise slipping of the shaft when gripped between the operator's fingers and a ring member secured to one end of said shaft, said ring member being slotted at a portion thereof to provide a pair of arcuate fingers extending from the end of said shaft with the free ends of the fingers spaced apart and extending towards each other along a line substantially perpendicular to said shaft, said ring member being grooved around its outer periphery, said groove adjacent the free ends of said fingers extending generally in a direction perpendicular to the axis of said shaft.

2,595,087
LOAD RETAINING DOOR
John H. Leslie, II, Evanston, Ill., assignor to Signode Steel Strapping Company, Chicago, Ill., a corporation of Delaware
Application July 7, 1948, Serial No. 37,417
11 Claims. (Cl. 160—368)



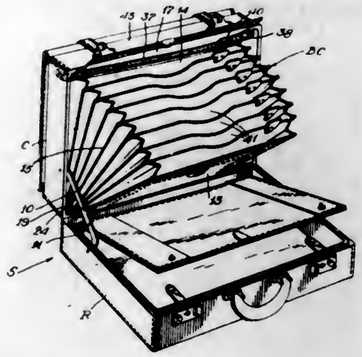
1. A load-retaining door comprising at least two superposed substantially coextensive plies of fabric of a width somewhat in excess of doorway width; a plurality of spaced metallic cross-straps, which are perforated to receive nails for attaching the cross-straps to a doorway frame, interposed between and substantially covered on both sides by two of the plies; and an adhesive for binding the fabric plies and cross-straps together into a unitary whole; characterized by one of the plies being provided with irregularities which register with perforations in the covered cross-straps to indicate the locations thereof.

2,595,088
BRACE FOR LADY'S GARMENT
Anna Licht, New York, N. Y.
Application August 12, 1947, Serial No. 768,217
2 Claims. (Cl. 2—260)



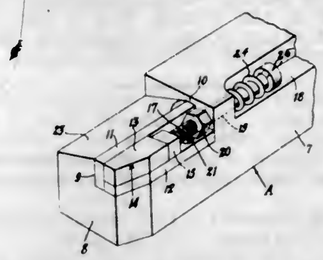
2. A bust supporting attachment for a garment comprising an arcuate brace, a sheath therefor, comprising two lengths of ribbon, the longitudinal edges of said lengths being connected and said lengths being transversely joined at one end of the sheath to form a sac, the inserted arcuate brace imparting its arcuate form to the sheath, said sheath comprising lateral webs for attachment thereof to the garment, said sheath having two longitudinal lines of stitching between the edges thereof, defining a tunnel accommodating the brace, said webs flanking said tunnel, the open end of the arcuately formed sac serving for convenient removal of the brace for laundering and insertion thereof for use.

2,595,089
COMBINATION OVERNIGHT CASE AND PORTFOLIO
Samuel H. Lifton, New York, N. Y.
Application August 26, 1947, Serial No. 770,683
2 Claims. (Cl. 190—51)



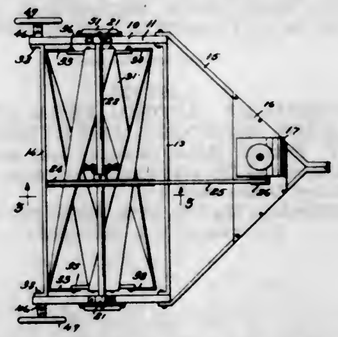
1. In combination, a satchel having a hollow cover, a portfolio having a bottom wall provided with a channel, a member secured to said bottom wall for closing the lower portion of said channel and constituting with said wall a tube, a strap connected to said cover and removably threadable through said tube and in part extending beyond one end of said portfolio, and locking means cooperating with said part to prevent removal of said strap from said tube.

2,595,090
CUTTING TOOL
Burton E. Middleton, Hatfield, Pa., assignor to The Econotool Company, Jenkintown, Pa., a partnership composed of Burton E. Middleton, Hatfield, and Thomas W. Montgomery, Hatboro, Pa.
Application August 1, 1947, Serial No. 765,373
7 Claims. (Cl. 29—96)



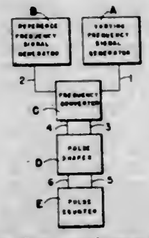
1. A cutting tool comprising a tool holder having a head and a shank portion, said head having an approximately right angled tip receiving recess extending longitudinally of the head along an edge thereof, a correspondingly angled cutting tip freely lying in said recess for longitudinal and lateral movement with respect thereto and adapted to be supported by the side wall and bottom wall of the recess under the thrust set up when the tool is in use, said tip having a cutting edge adjacent one end, a supporting block secured to the other end of the tip by a readily frangible connection, and an adjustable positioning member carried by the tool and coupled to said block.

2,595,091
FRAME FOR ROTARY GROUND PULVERIZERS
Zach H. Moores, Texarkana, Tex.
Application April 16, 1947, Serial No. 741,713
1 Claim. (Cl. 97—233)



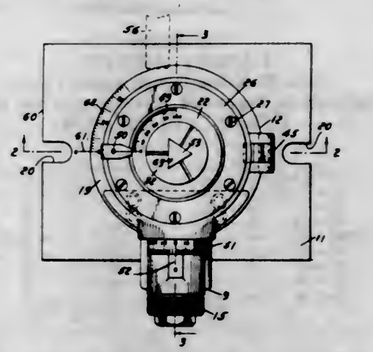
A frame for a ground slicer and pulverizer comprising open work side plates, transversely extending forward and rear members having flanged ends that are secured to the side plates at the front and rear edges thereof to place the side plates in parallel spaced relation to each other, a pair of angular members having flanges on the opposite ends thereof and secured at one of the flanged ends to the opposite forward ends of the side plates to provide a triangular shaped draft structure, a platform carried by the draft structure to support a motor, strap means adjustably connected to the opposite rear ends of the side plates, wheels attached to the strap means for supporting the frame and journal means carried by the upper edge of the side plates for journalling a driven shaft therein transversely of the frame.

2,595,092
METHOD AND APPARATUS FOR UNDERWATER GRAVITY SURVEYING
Whitman D. Mounce, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
Application May 19, 1947, Serial No. 748,966
3 Claims. (Cl. 73—382)



1. In a method for underwater gravitational surveying wherein a gravity controlled alternating current signal is generated and the frequency of said signal is varied about a mean frequency when the signal generator is subjected to external vibratory forces which normally are present in under-water surveying, and wherein said mean frequency is a function of the gravitational field of the earth, the steps which comprise producing said gravity controlled signal, generating an alternating current reference signal having a known and substantially constant frequency, mixing said gravity-controlled signal with said reference signal, converting the resulting mixed signal to produce a beat frequency signal, and registering a substantially precise count of the number of cycles in said beat frequency signal during a selected interval of time.

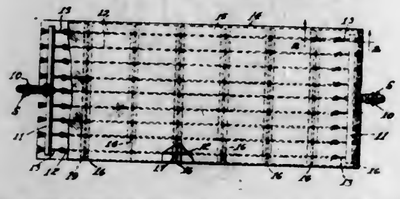
2,595,093
TOOL GRINDING FIXTURE
Garrett H. Mouw, Royal Oak, Mich.
Application March 9, 1950, Serial No. 148,559
1 Claim. (Cl. 51—220)



A fixture for supporting a cutting tool for grinding the cutting edges on a plurality of angularly related longitudinally extending faces on the tool comprising a support, a circular base plate mounted on said support for rotation about the axis of said circular base plate, indicia on said support and said base plate for determin-

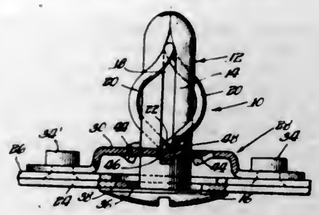
ing the relative rotative positions of said support and base plate, an arm on said base plate extending upwardly from the plane of said base plate, said arm having at its upper end a bearing member for rotatably supporting a casing for rotation, the axis of said bearing member being parallel to the plane of rotation of said base plate and intersecting the axis of rotation of said base plate, said casing having an axial bore therein, said casing having a bearing portion rotatably supported by the bearing member at the upper end of said arm, said bearing portion of said casing having its axis of rotation intersecting and perpendicularly related to the axis of said axial bore in said casing, said casing and bearing portion being rotatable through 360° on said arm and being dimensioned such that, when the casing is rotated to a position wherein the axis of said axial bore is perpendicular to the plane of rotation of said base plate, said last mentioned axis coincides with the axis of rotation of said base plate, a sleeve rotatably supported within said axial bore, a collet having an opening therein corresponding in shape with the cross section of said tool with the angularly related, longitudinally extending faces, cooperating guide and slot means on said sleeve and collet for fixedly positioning said collet in said sleeve with the collet extending to one end of the sleeve, indicia on said sleeve and said casing for indicating the position of a face of the tool in said collet relative to said casing, an index plate supported on said sleeve adjacent its opposite end for rotation relative to the sleeve, means for coupling said index plate and sleeve for rotation together, means on said casing engageable with the index plate for locking said index plate in a plurality of angularly related positions on said casing, said positions being angularly related to correspond with the angular relation between the faces of the tool to be ground, and a drawbar having a manually engageable portion at said opposite end of said sleeve for locking said collet against axial movement within said sleeve, said arm being dimensioned such that the perpendicular distance between the plane of said base plate and the axis of the bearing member on said arm is greater than the perpendicular distance between said manually engageable portion of said drawbar and the axis of said bearing member at the upper end of said arm.

2,595,094
CANOPY AWNING
John B. Niles, Los Angeles, Calif.
Application August 30, 1948, Serial No. 46,757
1 Claim. (Cl. 211—180)



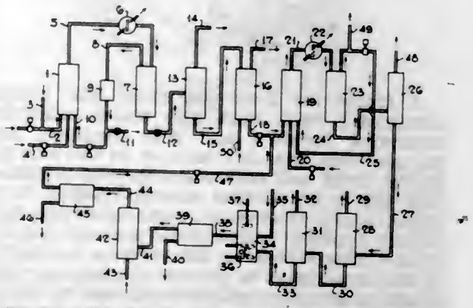
In a canopy awning, a pair of spaced uprights, cross bars supported at their centers by said uprights, a plurality of eyebolts passed through said cross bars in equidistantly spaced relation along the length thereof, a flexible element stretched taut between said cross bars and secured to each aligned pairs of said eyebolts, an awning supported on said flexible elements, tie elements secured to the lower side of the opposite ends of said awning to fasten the same to said cross bars, ring elements carried by the under side of said awning and engaged with said flexible elements whereby the awning may be slid endwise along the same toward one of said cross bars, upon the release of said securing means of the awning from the other of the cross bars, to expose the flexible elements for use as clothes lines, spaced pockets formed transversely on the lower side of the awning, and a rod housed within each of said pockets to maintain the awning taut crosswise of said flexible elements.

2,595,095
FASTENER
John B. O'Connor, Evanston, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application February 7, 1945, Serial No. 576,606
15 Claims. (Cl. 24—221)



1. A quickly operable fastener device including a rotary stud member having a shank portion, a lateral work engaging abutment spaced from one end of said shank portion, an elongated work latching arm helically disposed around the shank of the stud member and having one extremity mounted on the shank, the opposite portion of said arm extending toward said abutment and having an in-turned axially shiftable extremity, said in-turned extremity terminating in position for slidably engaging a work surface interposed between said extremity and said abutment to yieldably resist lateral displacement axially of the stud as an incident to stud rotation.

2,595,096
SYNTHESIS OF ALCOHOL FROM OLEFINS, CARBON MONOXIDE, AND HYDROGEN
Paul T. Parker, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application May 20, 1948, Serial No. 28,256
5 Claims. (Cl. 260—638)



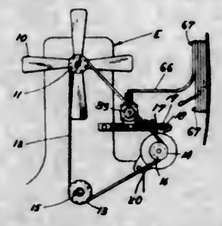
1. In a carbonylation process wherein olefins, carbon monoxide and hydrogen are contacted with a cobalt catalyst and under conditions including pressures below 4500 p. s. i. g. to produce oxygenated reaction products comprising organic carbonyl compounds and in which said organic carbonyl compounds are reduced to alcohols in a hydrogenation zone and the alcohols subsequently distilled, the improvement which comprises increasing the overall yield of alcohol by subjecting the residue from the alcohol distillation process to a hydrolysis reaction in a neutral medium at temperatures above about 300° F. and hydrogenating at least a portion of the products of hydrolysis.

2,595,097
WRITING AND DRAWING IMPLEMENT
Lewis A. Paul, Wichita, Kans., assignor to Beech Aircraft Corporation, Wichita, Kans., a corporation of Delaware
Application December 9, 1947, Serial No. 790,457
3 Claims. (Cl. 120—48)



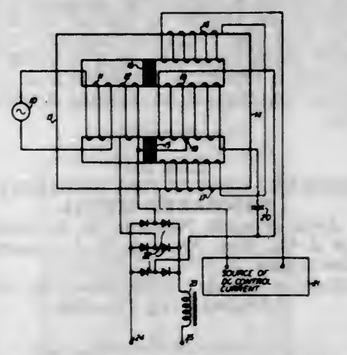
1. An instrument of the character disclosed comprising an inner ink barrel, a capillary flow feed point at the lower end of the same, an outer barrel surrounding said inner ink barrel and providing therewith an annular chamber, said inner barrel having a vent passage in the side and near the lower end of the same but above said capillary flow feed point opening to said annular chamber, an ink flow restricting air passage between said inner and outer barrels extending from said annular chamber, a valve port in the outer barrel near the upper end of the same in communication with said restricted air passage and a valve cooperable with said port.

2,595,098
AIR COMPRESSOR ACCESSORY FOR VEHICLES
Joseph Poglay, Warrensville Heights, Ohio
Application July 7, 1948, Serial No. 37,435
4 Claims. (Cl. 230—38)



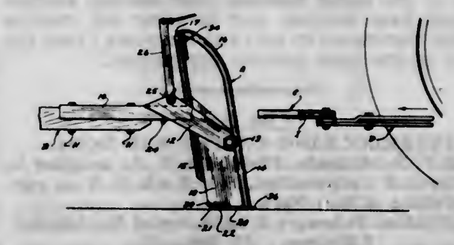
1. An air compressor attachment for a vehicle having a fan belt and a slotted adjustment bar for the generator, comprising: a support adapted to be mounted on said bar, and being adjustable therealong for positionment in proximity to said fan belt; an air compressor slidably mounted on said support, having a pulley movable into and out of engagement with said fan belt depending upon the position of said air compressor; and means for effecting movement of said air compressor, including toggle linkage means for rigidly holding said air compressor in position where said pulley is in engagement with said fan belt, and spring means for yieldably urging said air compressor to position where said pulley is out of engagement with said fan belt.

2,595,099
ELECTRIC CONTROL APPARATUS
George H. Pohm, Lorain, Ohio, assignor to Lorain Products Corporation, a corporation of Ohio
Application October 14, 1947, Serial No. 779,707
3 Claims. (Cl. 321—5)



1. A rectifying arrangement comprising in combination, a polyphase rectifier having first, second and third input terminals, a leakage reactance transformer, a capacitor, said transformer having a central core member and two outer core members, two magnetic shunt means respectively between the central core member and the outer core members and dividing the magnetic core structure into primary and secondary core portions, a first winding on the central core member of the primary core portion adapted for connection to a source of single-phase alternating current, a second winding on the central core member of the secondary core portion and connected in a closed circuit with said capacitor, a third winding on the central core member of the primary core portion, a first energizing circuit connected to the first and second terminals of the rectifier and including said third winding, and a second energizing circuit connected to the first and third terminals of the rectifier and including a portion of the second winding, fourth and fifth windings respectively on the outer core members of the secondary core portion, said fourth and fifth windings being connected in series and adapted for connection with a source of unidirectional current for producing unidirectional flux in the secondary core portion.

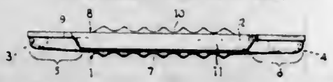
2,595,100
HITCH
Jerry J. Ravers, Jr., Amiret, Minn., assignor of one-third to Willard D. Knox and one-third to Harry K. Nyberg, both of Tracy, Minn.
Application March 29, 1948, Serial No. 17,632
8 Claims. (Cl. 280—33.44)



1. A hitch mechanism of the character described for making a draft connection between

a tractor having a draft coupling and an implement having a draft tongue, comprising a hitch member swingably connected to the implement and normally standing in a generally upright position resting at one end on the ground to support the implement tongue and the hitch member having a portion for engagement by the coupling as the tractor is backed up to the implement, and the coupling engaging portion of the hitch member in the said upright position thereof being vertically extended and elongated to thereby compensate for varying heights of the coupling.

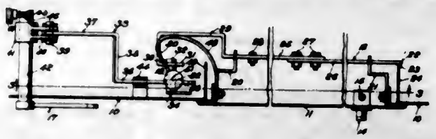
2,595,101
MEASURING DEVICE FOR MERCURY AND POWDERED METAL
Harry John Russell, Newark, N. J., assignor to Baker & Co., Inc., Newark, N. J., a corporation of New Jersey
Application March 2, 1950, Serial No. 147,190
2 Claims. (Cl. 73—426)



1. A measuring and dispensing device for mercury and powdered silver alloy in the manufacture of amalgam comprising a lower rod base member and an upper elongated movable member in slidable engagement therewith, said base member comprising a main body portion and narrower end portions extending longitudinally therefrom at each end thereof, a flat top planar surface extending throughout the length thereof, beveled side surfaces extending downwardly and inwardly from said top surface, oval cup-shaped reservoirs formed in the end portions of said base member with their openings being in the plane of the top surface, one of said reservoirs being dimensioned for containing a predetermined volume of mercury, said other reservoir being dimensioned to accommodate a predetermined volume of the powder silver alloy to be measured and dispensed, the undersurface of said base member at the main portion having a gripping means formed thereon, said upper movable member comprising a flat planar undersurface accurately corresponding in flatness and smoothness with its mating surface on the base member, main body portions and narrower end portions on said upper member corresponding with the similar portions on the base member, the narrower end portions on said upper member being made of transparent material and a gripping means formed on the upper surface of the main portion of said upper member, said movable member having side portions extending downwardly and inwardly therefrom at the main body portion thereof engageable in sliding contact with the beveled sides of said base member to maintain close contact of the undersurface of the upper member with the top surface of said base member and to allow for relative sliding movement of said two members along the plane of the base member top surface.

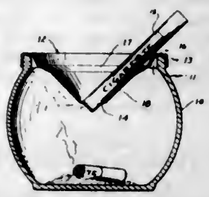
2,595,102
INTERLOCKING SWITCH AND DOOR
Louis F. Santangelo, Plainfield, N. J., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application February 6, 1950, Serial No. 142,569
7 Claims. (Cl. 200—50)

1. An interlocking switch and door construction comprising a cabinet having a doorway, a door swingingly hung in said doorway, a switch mounted in said cabinet, handle means extending through a fixed wall of said cabinet for operating said switch between open and closed positions, a latch bar, means mounting said latch bar on said door for movement between latched and unlatched positions, and mechanical linkage means operatively connecting said latch bar to said handle means to move said latch bar to latched position when said switch is thrown to one of said



switch positions and to move said latch bar to unlatched position when said switch is thrown to the other of said switch positions, said mechanical linkage means including a pair of pivotally pointed bar members, means mounting said bar members for longitudinal movement substantially across the hinge line of said door, the pivotal joint of said bar members being coaxial with the hinge axis of the door when said latch bar is in unlatched position.

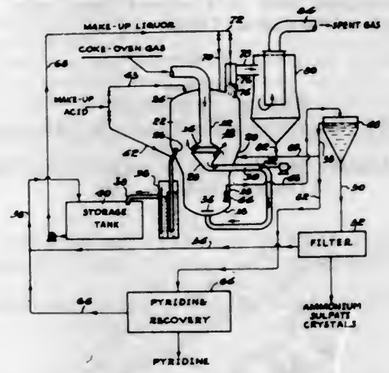
2,595,103
CIGARETTE ASH RECEIVER
George P. Schmaling, Sr., Armonk, N. Y.
Application November 16, 1949, Serial No. 127,625
2 Claims. (Cl. 131—242)



2. A cover for an ash tray comprising a peripheral portion adapted to cover the upper edge portion of an opening of an ash tray and a portion of the exterior wall at said edge portion, said peripheral portion merging into a part defining a funnel having a lower wall section of true frusto-conical shape having its small base defining a centrally disposed opening of substantially seven-sixteenths of an inch in diameter and an inclined cigarette supporting wall surface inclined at an angle substantially forty-five degrees outwardly and upwardly from the plane of the centrally disposed opening and serving to direct the downward movement of the cigarette and the ashes thereof toward the centrally disposed opening, a second wall section defining a frustum of a cone having its side wall exteriorly at an obtuse angle to the side wall of the first cone and a third wall section defining a frustum of a cone having a side wall whose interior surface defines an obtuse angle with the interior surface of the second section whereby a cigarette resting in any position within the cover has its lighted end thereof in engagement with the edge of the centrally disposed opening of the smaller base of the first conical wall section, another portion of the cigarette in contact with the first frusto-conical inclined surface, the remaining interior surfaces of the second and third conical wall sections defining with the cigarette a space to facilitate placing the finger of an operator beneath the

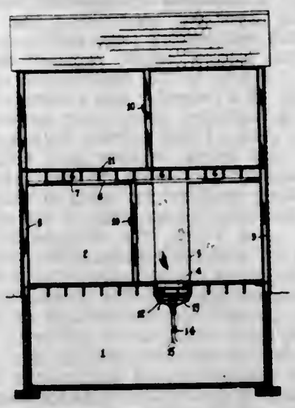
cigarette so as to readily remove it from its position of rest in the cover, the distance from the centrally disposed opening to the larger base of the third wall section being greater than one-half the length of a conventional cigarette.

2,595,104
PROCESS FOR THE RECOVERY OF AMMONIUM SULFATE
Elwood V. Schulte, Pittsburgh, Pa., assignor to Koppers Company, Inc., Pittsburgh, Pa., a corporation of Delaware
Application September 17, 1947, Serial No. 774,522
5 Claims. (Cl. 23—119)



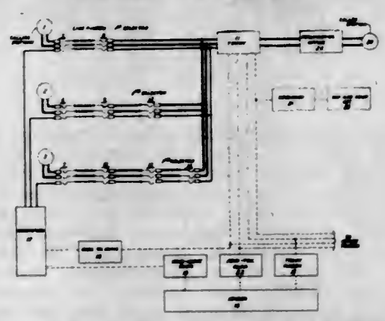
1. In a process for the recovery of ammonia and pyridine from coke-oven gas in low differential saturators in which the differential pressure across the gas-liquid contact means of the saturator is less than 18 inches water column the steps of: continuously bringing coke-oven gas into contact with saturator solution in said gas-liquid contact means at a rate such that at least 75 per cent of the ammonia is absorbed and incorporating fresh sulfuric acid in the saturator solution to maintain the acidity of said saturator solution; withdrawing saturator solution from said gas-liquid contact means and treating it to recover ammonium sulfate and pyridine, said pyridine recovery being sufficient to keep the pyridine content of the saturator solution below 5 per cent pyridine; preparing a make-up liquor by adding at least a part of said fresh sulfuric acid to an ammonium sulfate solution which is separate from said saturator solution but which is obtained therefrom in the operation of the process, said make-up liquor being unsaturated with respect to ammonium sulfate and the amount of fresh sulfuric acid added thereto being sufficient to provide an acidity greater than the acidity of said saturator solution but less than 40 per cent sulfuric acid; continuously withdrawing coke-oven gas from said gas-liquid contact means after contact with said saturator solution therein, bringing the withdrawn gas into contact with said make-up liquor in a second gas-liquid contact means, and collecting said make-up liquor after contact with said gas; withdrawing mist-laden coke-oven gas from said second gas-liquid contact means after contact with the make-up liquor therein and passing said mist-laden gas through a mist separator to condense said mist, the withdrawal of mist-laden gas from said second gas-liquid contact means and the condensing of that mist in said mist separator acting to prolong the gas-liquid contact time and to promote effective low differential scrubbing of the residual pyridine from the gas; and treating the collected make-up liquor and the condensed mist to recover pyridine therefrom.

2,595,105
BASEMENT HEATING SYSTEM
Lewis L. Scott, Glendale, Mo.
Application May 12, 1951, Serial No. 225,941
2 Claims. (Cl. 237—69)



1. In a residence having a basement, with living quarters above, a heat transfer coil located in said basement area, means for supplying heat to said coil, a heat shaft for normally conducting heated warm air upward to a space above the first floor ceiling so as to heat said ceiling, ducts for returning said air from the space above the first floor ceiling to the basement, a fan co-operating with the heat coil so that when turned on, said fan will reverse the normal flow of air and will pull air down through the coil and discharge said heated air into the basement, means for turning said fan on or off.

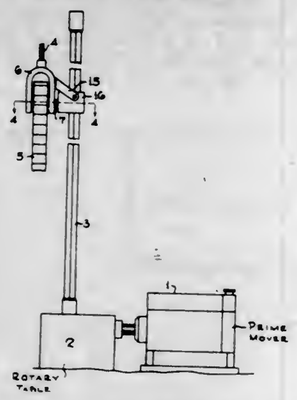
2,595,106
RECORDING TELEPHONE SYSTEM
Frederick J. Scudder, Manhasset, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 18, 1947, Serial No. 755,434
2 Claims. (Cl. 179—7.1)



1. In a telephone system adapted for recording on a common medium items of record information pertaining to telephone connections established between calling lines and called lines over step-by-step switching selectors and trunks, each of said lines and each of said trunks having an identifying designation, the combination with

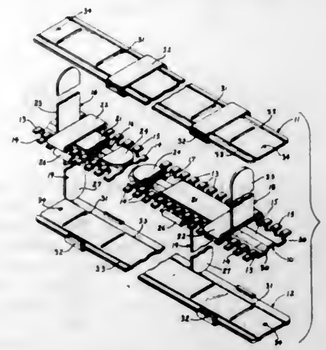
an identifier for determining the identity of each of said calling lines during the establishment of said connections, means responsive to impulses from said calling lines for extending said lines severally to said trunks over said switching selectors, means for determining for each connection the number of impulses utilized at each switching selector for extending a calling line therethrough to one of said trunks, register senders responsive to said impulse determining means and to impulses transmitted thereto from said calling lines for controlling the establishment of said connections from said trunks to said called lines, and a trunk register settable at times in response to the designation of each of said trunks, of a recorder and a common recording medium therefor operatively connectable at times with each of said trunks, with said identifier, with said trunk register and with each of said senders for recording on separate lines of said recording medium for each of said connections the identified designation of the calling line connected to a trunk, the designation of said trunk and an arbitrary designation; for recording on other lines of said recording medium for each of said connections the designation of the called line thereof, the designation of the trunk and an arbitrary designation different from the arbitrary designation recorded on the lines containing the designations of said calling lines, and for recording on two other lines for each of said connections and in response, respectively, to the beginning and termination of conversation thereover an indication of the time when said conversation began and an indication of the time when said conversation terminated, including for each of said lines an arbitrary designation, each of which is different from each other and from the arbitrary designation recorded on each of the two first lines for each of said connections.

2,595,107
DRILLING PROCEDURE AND APPARATUS
Ben W. Sewell, Tulsa, Okla., assignor to Standard Oil Development Company, a corporation of Delaware
Application March 19, 1948, Serial No. 15,845
1 Claim. (Cl. 255—21)



An apparatus for cutting holes in the earth comprising an elongated vertical framework, said framework being constructed in separable sections and adapted to be lengthened by the insertion of additional similar sections, upper and lower sprockets having axles attached to the top and bottom ends respectively of said elongated framework, an endless chain stretched over said framework and engaged with each of said sprockets, and adapted to be lengthened, bucket-like links attached at evenly spaced intervals along said chain, said links having sharpened edges, a bracket supporting the axle of said upper sprocket and adapted to be suspended from a supporting cable, a gear box attached to said bracket, a bevel gear attached to the axle of said upper sprocket and vertically disposed within said gear box, a second bevel gear horizontally disposed within said gear box in meshed relation with said first bevel gear, said second bevel gear being provided with a central non-circular opening, a vertical shaft having a non-circular cross section corresponding substantially in shape to said non-circular opening, said shaft being slidably engaged with said second bevel gear, and means for rotating said shaft.

2,595,108
PAPER FASTENER
Helen I. Shoenberger and Fannie K. Stevenson, Warren, Ohio
Application March 31, 1950, Serial No. 153,014
2 Claims. (Cl. 24—153)

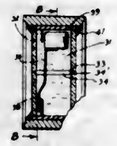


1. A paper fastener, comprising: a base having oppositely directed guideways extending laterally therefrom; tongue means for each side of said base, each tongue means being formed of bendale sheet material and having one end connected to said base and a body portion adapted to be disposed flatwise along a respective side of said base; and slide means for each of said guideways, each slide means being slidable over the juxtaposed portions of said base and respective tongue means and movable to various positions therealong to provide a variable-positioned bending guide about which said body portion may be bent to form a laterally extending tongue.

2,595,109
PITCH FINDER FOR LEVELS
Earle R. Steady, Laconia, N. H.
Application February 9, 1950, Serial No. 143,215
1 Claim. (Cl. 33—206)

In a carpenter's level, a rectangularly-shaped beam provided with an opening extending transversely therethrough substantially centrally thereof and a pitch finder comprising a liquid-containing chamber interfitting with the opening in said beam and consisting of an annular band and spaced front and rear glass walls mounted within and secured to said band adjacent its edges, sealing means on the front and rear glass walls and engaging with the opening wall to hold

the chamber therewithin, said glass walls being provided with aligning depressions substantially centrally thereof, a degree graduated scale mounted in the lower portion of said chamber and spaced from said front glass wall, a pin having its ends supported within said depressions in said front and rear walls and a pointer carried by said



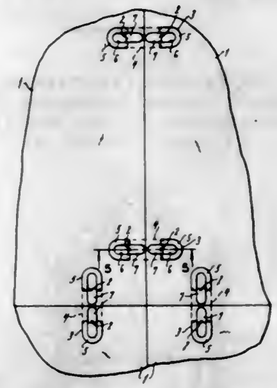
pin and having its upper end carrying a float adapted to follow the surface of the liquid in the chamber and its lower end having an indicator movable between said front glass wall and said scale and adapted to cooperate with said scale to apprise the user of the degree of inclination of the level, said float lying between the scale and the rear plate to be guided thereby.

2,595,110
MEANS FOR SETTING AND FURLING SAILS
John W. Steube, Mystic, and William Smyth, Noank, Conn.
Application November 15, 1949, Serial No. 127,320
5 Claims. (Cl. 114—104)



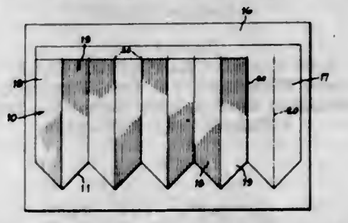
5. A light sail for use on a sail boat and having at the ends of the lower edge of said sail a pair of clews arranged respectively to be connected to lines for controlling said sail during setting thereof and also for holding said sail when set, said clews having distinguishing indicating means respectively designating the same relative to the opposite sides of said sail boat, in combination with means arranged to closely and generally encircle said sail and hold it furled in compactly collapsed condition throughout the length thereof, said indicating means of one end of said clews extending beyond said encircling means when said sail is furled and said encircling means also being collapsible and said one end thereof being movable longitudinally of said sail in opposite directions from one end to the other thereof to either free said sail for setting or closely encircling it for furling, and actuating means connected to said one end of said sleeve and operable to move said end as aforesaid.

2,595,111
PAD STRUCTURE
William A. Steward, Maplewood, Mo.
Application March 25, 1950, Serial No. 151,961
2 Claims. (Cl. 154—49)



2. For use with a sectional pad consisting of a plurality of identically shaped rectangular sections being provided around their peripheries with uniformly spaced series of slits so arranged that when the sections are laid in edgewise abutting alignment each slit will be paired with a corresponding slit of the adjacent section, a connector element formed of bendable material and integrally comprising a central web portion and spaced parallel legs, each leg being internally slit to provide two oppositely bendable retention ears, said ears being somewhat shorter than the distance between the slit and the adjacent edge of the section so that when the connector element is inserted through a pair of slits and bent over the ears which extend toward each other will not overlap.

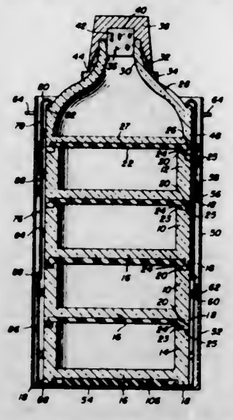
2,595,112
ADHESIVE COLLAR STAY PACKAGE
Walter R. Story, Bellevue, Ky.
Application October 15, 1949, Serial No. 121,589
2 Claims. (Cl. 206—56)



1. A package of collar stays comprising: a plurality of complementary pairs of collar stays, each pair consisting of a stay having the lower end thereof angulated to conform generally to the angular point of a left collar wing and a stay having the lower end thereof angulated to conform generally to the angular point of a right collar wing, each stay surfaced on one face with pressure responsive adhesive, said pairs of stays adhesively secured to an integral backing sheet in side by side relationship with the angulated ends of each pair providing a pair-identifying V, a stiff panel mounting and supporting said backing sheet, and said backing sheet configurated to conform to the outline of the lower ends of the respective stays and having a portion extending beyond the upper ends of the stays, said backing

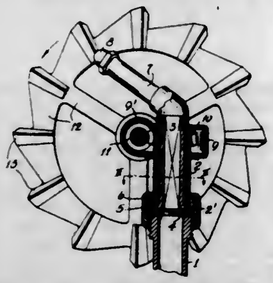
sheet slit between the stays from the lower angulated ends thereof to points above the upper ends of the stays but short of the upper edge of the backing sheet, whereby connecting webs are provided between each pair of stays and between the stays of each pair.

2,595,113
SECTIONAL CONTAINER
John H. Taberer, Burlington, N. J.
Application January 20, 1948, Serial No. 3,309
3 Claims. (Cl. 220—4)



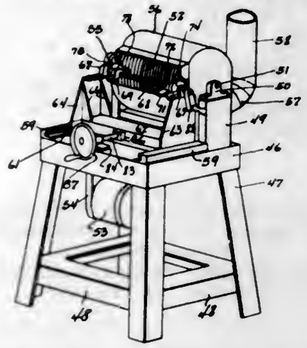
3. In a container, upper and lower dish-like sections, each of said sections including a flat bottom wall and a peripheral wall rising from said bottom wall, the upper edge of the peripheral wall of said lower section having a continuous recess therein, a continuous rib depending from the bottom wall of the upper section, and a resilient sealing disk interposed between said section and having a continuous rib on its lower face, the rib on said disk being received in the recesses in the peripheral wall of said lower section, and the upper face of said disk having a continuous groove receiving the rib depending from the bottom wall of said upper section.

2,595,114
LAWN AND CROP SPRINKLER
Zeev Wieseltier, Tel Aviv, Palestine
Application April 8, 1948, Serial No. 19,709
2 Claims. (Cl. 299—18)



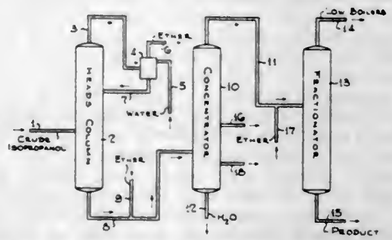
1. In a lawn and crop sprinkler of the kind referred to having a vertical stationary feeding pipe, an inclined nozzle pipe rotary about the axis of the feeding pipe, and two superposed centrally pierced members forming a passage from the feeding pipe, one member being connected with the feeding pipe and the other with the rotary nozzle pipe, the openings of these members being of symmetrical noncircular shape and disposed with their central holes in line with the feeding pipe, and means for driving the nozzle pipe and those members upon each other, such means including a worm gear determining the speed of rotation of the nozzle pipe.

2,595,115
APPARATUS FOR CUTTING AND SIZING CELLULAR GLASS SLABS
Otis W. Wiley, Sedalia, Mo., assignor to Pittsburgh Corning Corporation, Allegheny County, Pa., a corporation of Pennsylvania
Application May 14, 1948, Serial No. 27,085
7 Claims. (Cl. 51—105)



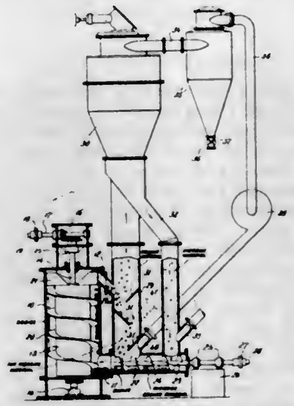
1. A machine for cutting sections of pipe coverings from cellular glass blanks comprising a travelling abrading element, a shaft having a mandrel fixed thereupon of semi-cylindrical section and being of a diameter corresponding to the inner diameter of the pipe covering, said mandrel being provided with seating surfaces for the lower faces of a section of pipe covering to be cut thereupon, said shaft being disposed with respect to the abrading element in such position that the outer surface of the section of pipe covering disposed upon the mandrel will contact with the abrading element as the shaft is rotated.

2,595,116
ISOPROPANOL ODOR IMPROVEMENT BY AZEOTROPIC DISTILLATION
Samuel W. Wilson, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application August 20, 1949, Serial No. 111,357
3 Claims. (Cl. 202—42)



1. A process for the production of isopropanol of improved odor quality from aqueous isopropanol containing low-boiling and high-boiling impurities including malodorous bodies imparting "mercaptan" odor to the isopropanol, which comprises distilling the aqueous isopropanol to remove as a first distillate the low-boiling impurities leaving aqueous isopropanol containing high-boiling impurities as bottoms, adding to the bottoms 0.1 to 10.0 volume percent of a saturated aliphatic ether boiling below isopropanol, distilling the bottoms to remove as a second distillate the ether, substantially all the isopropanol with azeotroping amounts of water and the malodorous bodies, leaving the high-boiling impurities and the remaining water as a residue, and fractionally distilling the second distillate to remove the ether and malodorous bodies as a third distillate from the isopropanol of improved odor quality.

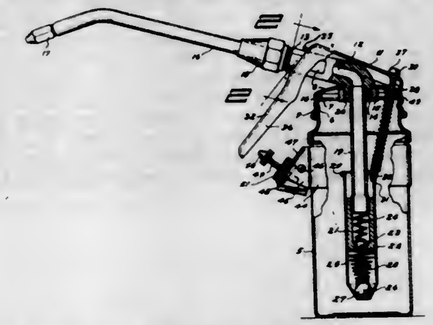
2,595,117
METHOD AND APPARATUS FOR GRINDING
Nikolai Ahlmann, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application March 6, 1951, Serial No. 214,033
In Great Britain, March 8, 1950
7 Claims. (Cl. 241—19)



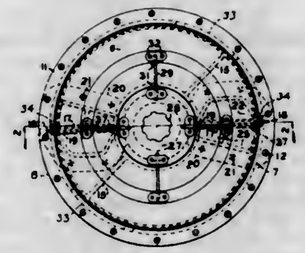
2. In a method of grinding material, in which the grinding is performed within a vessel by small grinding bodies acting on the material by centrifugal action, as the material and bodies move along the wall of the vessel toward one end thereof, the steps of continuously discharging a mixture of the grinding bodies and material at said end of the vessel, maintaining an air stream having an upwardly flowing portion, directing the mixture into said portion of the stream, the grinding bodies falling out of the stream and the ground and partially ground material being entrained in the stream, collecting the fallen grinding bodies and introducing them into the vessel at the other end thereof, separating an over-size fraction from the material entrained in the stream, introducing the over-size fraction into the vessel at said other end thereof, and introducing fresh material into the vessel at said other end thereof.

2,595,118
OIL CAN
Axel G. Anderson, Minneapolis, Minn., assignor to K-P Manufacturing Co., Minneapolis, Minn., a corporation of Minnesota
Application July 5, 1949, Serial No. 103,159
9 Claims. (Cl. 222—385)

1. In a fluid ejecting device, a container for the fluid, a fluid pump disposed within the container, an outlet spout communicating with the pump, said spout having a flat surface portion thereon, a finger piece fulcrumed on the spout adjacent said flat portion and having connecting means with the pump, said finger piece having a straight edge which engages and moves coplanar with said flat portion to control movement of the finger piece in a set arc about the fulcrum.



2,595,119
FLUID MOTOR
Vernon E. Anderson, Basehor, Kans.
Application January 15, 1951, Serial No. 206,081
3 Claims. (Cl. 121—78)

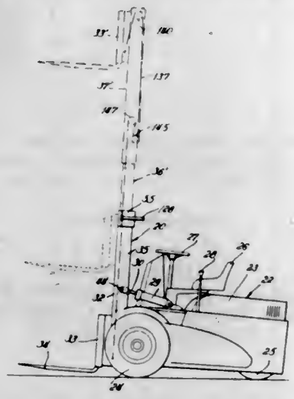


1. A fluid motor comprising a flat ring member, an annular channel shaped ring member, said annular channel shaped ring member having the open side of the channel shaped portion thereof closed by said flat ring member, an inlet port, an outlet port, said ports being in said flat ring member, a flat valve, a cam, said cam being on said annular channel shaped ring member, said flat valve being hinged to said flat ring member for closing said inlet port when said cam passes over said valve, impeller ribs, said impeller ribs being transverse on and dividing said annular channel shaped ring member into compartments, said inlet valve being closed by said cam when one of said impeller ribs passes over said valve, and said annular shaped ring member being revolvable against said flat ring member.

2,595,120
LIFT TRUCK
Brown E. Barnes, Portland, Oreg., assignor to Hyster Company, Portland, Oreg., a corporation of Oregon
Application August 5, 1950, Serial No. 177,942
15 Claims. (Cl. 187—9)

1. In a lift truck, a load hoisting mechanism comprising, in combination, a load lifting frame having stationary and movable sections with

parallel sides in telescopic engagement with one another, the stationary frame section being anchored to the lift truck and supported in an upright position, said sections being normally nested together to determine the minimum height of the frame, and one of said movable sections of the frame having a cross-piece secured thereto at the top, an hydraulic hoist of a normal height less than the minimum height of the frame and having its lower end anchored to the lift truck at a position such that it extends upwardly between said parallel sides of the frame, a guide bar secured to said cross-piece at the top of the frame and having a sliding connection to the



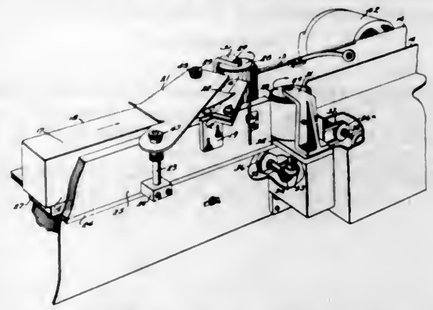
hoist for guiding the hoist during movements to and from engagement with said cross-piece, a load lifting apron movable along the sections of the lifting frame as they are extended upwardly by the hoist, the hoist and the movable sections of said frame having sheaves thereon, a chain having one end anchored to the lift truck and the other end connected to said apron, said chain normally being taut and extending in a sinuous path over said sheaves, whereby movement of the hoist into contact with said cross-piece lifts the apron along the stationary frame section and continued movement of the hoist moves the apron and movable frame sections.

2,595,121
ANTIFRICTION BEARING
Frederick R. Bonte, Canton, Ohio
Application January 2, 1947, Serial No. 719,815
3 Claims. (Cl. 308—214)



1. A roller bearing comprising a cup and cone having confronting curved surfaces and a plurality of rollers having surfaces curved to match and bear against the confronting curved surfaces of the cup and cone, the curvature of said curved surfaces of said cup, cone and rollers corresponding to a peripheral line on the surface of an elongated circular body formed by the intersection therewith of a plane passing at an acute angle through the axis of the body and the base of the body with the mid point of said peripheral line corresponding to a point on a second line in said plane which is perpendicular to the longitudinal axis of the body.

2,595,122
CARTON OPENER
Eugene C. Burhans, Lockport, N. Y.
Application July 19, 1950, Serial No. 174,684
3 Claims. (Cl. 30—2)

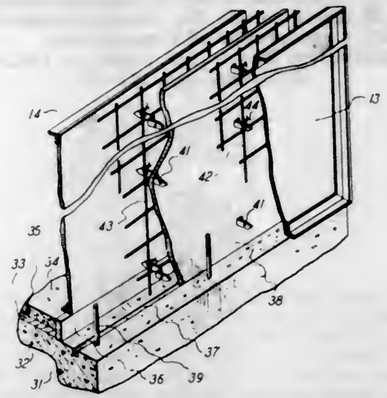


1. In a device for cutting the ends of an upwardly disposed front wall of a closed carton containing packages of cigarettes and breaking a sealed portion of the front wall away from the cover flap thereof to thereby prepare the carton for tax stamping the ends of each package therein; the combination of a channel for guiding the carton, a sharp edged blade horizontally positioned in the path of the leading end of the carton, the cutting edge of the blade registering with the lower surface of the uppermost wall of the carton and being adapted to cut through the leading end wall of the carton when the carton is manually forced thereagainst upon being started through the channel, driven feed rollers positioned at each side of the carton adjacent the cutting blade and adapted to engage with the carton after the initial cutting of the leading end wall, whereby the carton is thereafter moved by power to complete the operation of breaking a seal between the cover flap and front wall also the cutting of the trailing end wall, an upper guide extending across and above the channel with the undersurface thereof positioned a distance above the cutting edge of the blade equal to substantially the thickness of the carton wall and with one edge thereof close to the cutting edge of the blade, and adjustable supporting means for said upper guide at each side of the channel to effect vertical adjustment of the guide relative to the cutting edge of the blade.

2,595,123
METHOD OF CONSTRUCTING BUILDINGS
Patrick J. Callan, Manhasset, N. Y.
Application January 21, 1949, Serial No. 71,841
3 Claims. (Cl. 25—154)

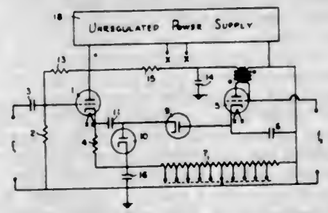
1. The method of erecting a building which consists of forming a floor and a foundation wall with a slot running along the wall, setting up an insulating member in the slot, piercing the insulating member with horizontal spacers, fixing reinforcing wire meshes at the opposite sides of the insulating member and connecting the same to the horizontal spacers, setting up inner and outer wall forms on the floor and engaging with the horizontal spacers and to provide a space therebetween, pouring concrete into the space to

provide an integral and conglomerate mass, thereafter removing the inner and outer wall



forms and finally building a roof structure on the top ends of the wall.

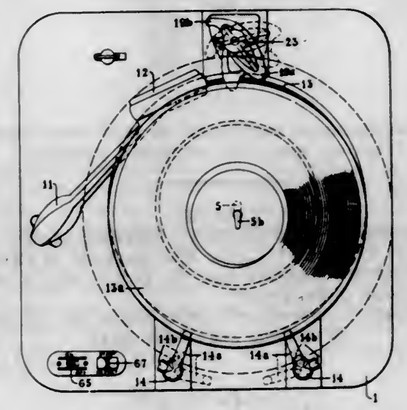
2,595,124
FREQUENCY DIVIDER
David H. Campbell, Los Angeles, Calif., assignor to North American Aviation, Inc.
Application April 26, 1949, Serial No. 89,675
6 Claims. (Cl. 250—27)



4. In a frequency divider having a blocking oscillator including a bias condenser and a variable bias resistor, a step charge rectifier for discharging said blocking oscillator bias condenser, a plate supply voltage source and a cathode follower including a cathode bias resistor for furnishing input to said blocking oscillator, the improvement comprising a conductive connection between the grid of the cathode follower and the positive and the negative terminals of said plate supply voltage source, and a conductive connection between the cathode bias resistor of said cathode follower and the bias resistor of said blocking oscillator to thereby eliminate the influence of power supply variations over the ratio of frequency division as established by the setting of said last named resistor.

2,595,125
PHONOGRAPH
Benjamin R. Carson, Haddonfield, N. J., assignor, by mesne assignments, to Philco Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application September 26, 1945, Serial No. 618,645
5 Claims. (Cl. 274—10)

1. In an automatic phonograph of the record-dropping type, a record supporting and releasing device, a post pivotally mounted and carrying said device for manual selective placement either in one position to accommodate a stack of records of one diameter or in another position to accommodate a stack of records of another diameter, a driving member mounted to revolve in one direction only, a pivot eccentrically disposed on said member, said pivot and post defining a straight line-of-centers, a pair of levers pivotally interconnected at one of their end portions, one lever having its other end portion connected to said pivot, the other lever having its other end portion connected to said pivotal post, and lost-motion means including a spring at the connection between one lever and one of its pivots, said lost-motion means providing for shifting of the levers from one side to the other side of said straight line-of-centers in response to manual placement of the record supporting

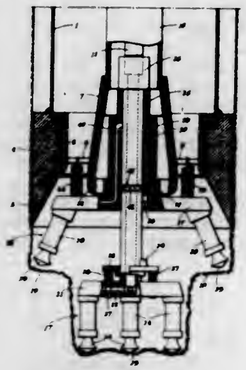


and releasing device in one or the other of its mentioned positions, said spring normally maintaining the pivotally interconnected levers out of alignment with said straight line-of-centers, whereby said levers when shifted to one side of said line-of-centers impart first clockwise and then counterclockwise oscillation to said record supporting and releasing device to effect release of a record of one diameter during one revolution of said driving member, and whereby said levers when shifted to the other side of said line-of-centers impart first counterclockwise and then clockwise oscillation to said record supporting and releasing device to effect release of a record of the other diameter during a revolution of said driving member.

2,595,126
WELL-DRILLING MACHINE
Otis A. Causey, Ceres, Calif., assignor of one-third to Leonard East, Modesto, Calif.
Application June 18, 1949, Serial No. 99,984
12 Claims. (Cl. 255—4.4)

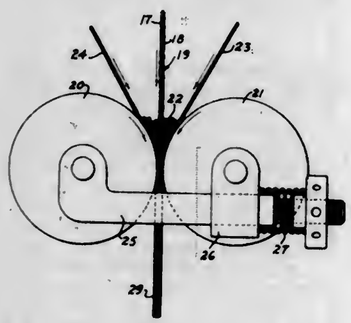
1. A well drilling machine comprising a drill casing, an air pressure supply tube depending in the drill casing to adjacent the lower end of the latter, and a pneumatically actuated drilling assembly mounted adjacent the lower end of the drill casing in communication with said air pressure supply tube; said drill assembly including a pair of vertically movable drilling units movable relative to each other, one being adapted to work a central portion and the other an edge portion of the well bore, the air pressure supply tube being vertically movable, said one drilling unit being mounted on the lower end of the tube for downward movement thereby from an upwardly

retracted position, and means to releasably lock the other drilling unit to said one drilling unit



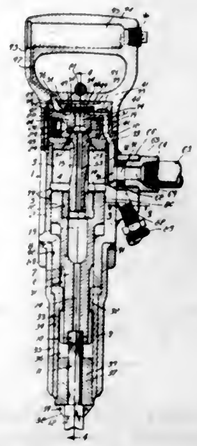
for simultaneous movement of said units downward from an upwardly retracted position.

2,595,127
METHOD OF FORMING DIAPHRAGMS
Irven E. Coffey, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware
Application December 9, 1946, Serial No. 715,040
13 Claims. (Cl. 154—124)



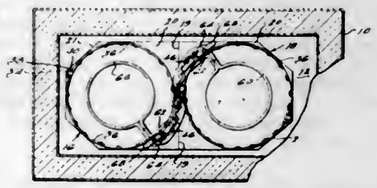
13. The method of forming a coated fabric with a mechanical bond between the fabric and coating which consists in the steps of applying a layer of doughy rubber to each fabric surface of a sheet of fabric by calendering in a longitudinal direction thereof and thereby elongating the material and increasing the tensioning of the longitudinal cords, while reducing the width of the fabric and decreasing the tensioning of the transverse cords, cutting the coated material into narrow strips, and press curing the strips with unconfined edges between platens each extending over substantially the full width of a strip and over a length of the strip at least several times the width thereof, the curing pressure being sufficient to cause the coating material to flow transversely and thereby increase the width of the fabric and so as to equalize the tensioning of the cords in both directions, to complete the penetration of the fabric interstices by the coating material, and to unite the material penetrating the interstices whereby the opposite surface coatings are connected and the fabric cords resiliently encased.

2,595,128
ROCK DRILL
John C. Curtis and Elmer G. Gartin, Claremont, N. H., assignors to Joy Manufacturing Company, a corporation of Pennsylvania
Application May 4, 1946, Serial No. 667,384
12 Claims. (Cl. 121—7)



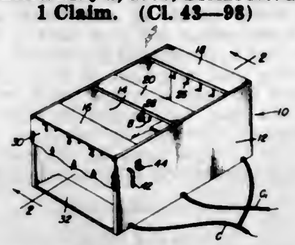
1. In a rock drill, the combination comprising a motor cylinder having a bore, a hammer piston reciprocable in said cylinder bore and adapted to actuate percussively a drill steel, fluid distribution means for the cylinder for effecting flow of motive fluid with respect to said bore to effect reciprocation of said piston, and means operated by said piston for intermittently rotating the drill steel and including a rotatable rifle bar having spiral grooves in sliding interlocking connection with said piston and an intermittent gripping device for controlling rifle bar rotation, said fluid distribution means including fluid conducting passages in said rotatable rifle bar and communicating with said cylinder bore.

2,595,129
GRIPPING DEVICE
Alphonse Duguay, St. Clair Shores, Mich.
Application May 20, 1946, Serial No. 671,114
5 Claims. (Cl. 248—361)



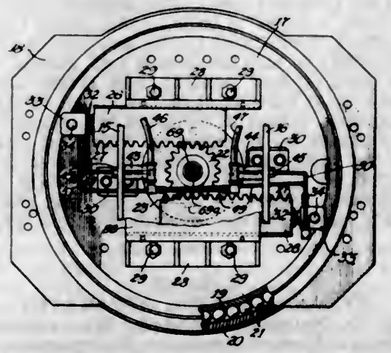
1. A container supporting device including, in combination, a gripping band having ends spaced apart when in released position, means for supporting said band, a handle extending above said band, means interconnecting the handle with the spaced ends of the bands for moving the ends toward each other into gripping position and for locking the ends against separation thereafter, and container lifting means disposed below said band and having an operating handle spaced from said first handle and also extending above said band by which the containers are adjusted in elevation.

2,595,130
TRAP FOR RATS, MICE, AND THE LIKE
Leslie R. Edwards, Gurdon, Ark.
Application May 2, 1950, Serial No. 159,594
1 Claim. (Cl. 43—98)



A trap for rats, mice and the like comprising a pair of spaced substantially vertical side walls, upper strips joining said side walls including end strips and an intermediate strip, bait supporting means depending from the intermediate strip, hooks swingably mounted on and depending from the end strips, means carried by the end strips concealing the hooks, a pair of end conductive strips joining the side walls and underlying the upper end strips, an intermediate conductive strip also joining said side walls, said conductive strips being connected to a source of electric current whereby a rat simultaneously contacting one of said end conductive strips and said intermediate conductive strip will receive a shock, and said hooks being located sufficiently close to said hooks to impale a rat jumping in response to a shock received when contacting one of said end conductive strips and said intermediate conductive strip.

2,595,131
LOAD GRIP MEANS FOR TRUCKS AND THE LIKE
Leslie G. Ehmann, Portland, Oreg., assignor to Hyster Company, Portland, Oreg., a corporation of Oregon
Application August 10, 1950, Serial No. 178,743
5 Claims. (Cl. 214—66)



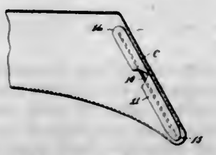
1. In combination, a rod having a longitudinal bore extending therein, a tube extending through said bore in spaced relation to the walls of the bore, a housing member surrounding one end of said rod, the tube being adapted to feed fluid under pressure into the end portion of said housing member, an opening in the wall of said hollow rod communicating with said bore for feeding fluid under pressure from said bore into said housing at a point in spaced relationship to the said end portion of said housing member, said housing member being rotatably mounted with respect to the rod, sealing rings carried by said rod at opposite sides of the opening in the wall of the hollow rod in communication with said bore for preventing the application of an end-thrust effect on said rod by the pressure in said bore, and an end-thrust ball bearing holding said housing member from movement longitudinally of said rod in opposition to the end-thrust effect of the pressure in said tube.

2,595,132
PRESSED METAL METER BOX
Kenneth H. Foskett, Manchester, N. H., assignor to Anchor Manufacturing Company, Boston, Mass., a corporation of Massachusetts
Application February 16, 1949, Serial No. 76,747
1 Claim. (Cl. 220—44)



A pressed-metal meter box comprising a cupped body portion and an out-turned flange around its mouth, the flanges having embossed ridges extending circumferentially around the outer face of the flange at spaced intervals to leave drainage spaces between the adjacent ends thereof, said ridges being spaced from both the inner and outer edges of the flange to provide flat surfaces perpendicular to the axis of the box which extend continuously around the flange inside and outside the ridges.

2,595,133
GARMENT STAY
William M. Golden, Montgomery, Ala.
Application September 8, 1948, Serial No. 48,220
1 Claim. (Cl. 2—260)



A garment stay comprising a strip of flexible, non-resilient material, an adhesive on and entirely covering one side of said strip, a strip of relatively stiff material of less width and less length than the first said strip and adhering thereto by said adhesive with the edges thereof remote from the edges of the first said strip providing a circumjacent adhesive portion, the outer face of said relatively stiff strip being free of adhesive, and the circumjacent adhesive portion of the first said strip providing means whereby said stay may be repeatedly attached to a garment by manual pressure, and is readily removable therefrom for further use by slight manipulation.

2,595,134
UNIVERSAL MANIPULATOR FOR GRASPING TOOLS
Carroll M. Gordon, San Pablo, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission
Application January 2, 1951, Serial No. 203,962
11 Claims. (Cl. 294—99)

1. A remotely actuable manipulator comprising a tubular member, means at one end of said

member and extending through the latter for transmitting opening and closing movement to a pair of separable jaws disposed at the other end thereof, means at said one end of said member for actuating said first means, means connected



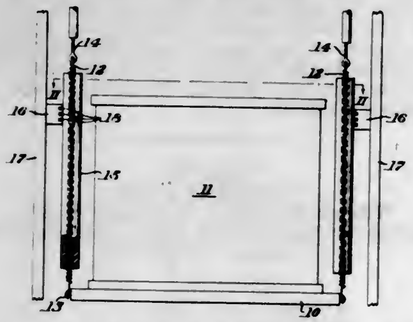
to the actuated end of said member for bodily moving said jaws angularly with respect to the axis of said member and control means at said one end of said member for effecting said last named movement of said jaws upon opposite movement of said control means.

2,595,135

SHOCK-ABSORBING SUSPENSION FOR INSTRUMENTS OR THE LIKE

Grover Rawie Greenslade, Scott Township, Allegheny County, Pa., assignor to Flannery Bolt Company, Bridgeville, Pa., a corporation of Delaware

Application August 12, 1946, Serial No. 689,994
4 Claims. (Cl. 248—18)



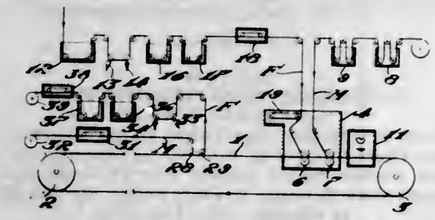
4. In a shock-absorbing suspension, the combination with spaced resiliently hangers, of a friction pad engaging each of said hangers laterally to damp longitudinal vibrations thereof, said pads having spaced ribs on their contacting surfaces extending transversely of the hangers.

2,595,136

METHOD OF FORMING SENSITIVE RECORD TRACK ON CINEMATOGRAPHIC FILM

Everette E. Griffith and Lauriston E. Clark, Los Angeles, Calif., assignors to Technicolor Motion Picture Corporation, Hollywood, Calif., a corporation of Maine

Application November 20, 1948, Serial No. 61,282
6 Claims. (Cl. 95—5)



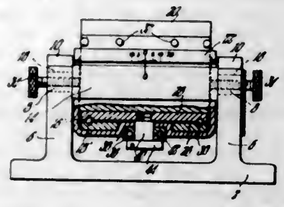
1. In the art of printing dye-absorbent motion picture film, the method which comprises stripping one longitudinal zone of the film with a water-soluble silver salt, subsequently bathing the entire film with a water solution of a water soluble halide to form a light sensitive water-insoluble silver halide in said zone, and subsequently superposing the film and a dye-soaked matrix to print pictures on the film by imbibition and printing said longitudinal zone of the blank by exposure through a record track, whereby the record track may be printed in silver with the high definition afforded by exposure of a silver salt and the pictures may be printed in colored dye without interaction of the dye and the silver salt.

2,595,137

WORK HOLDER

Avides J. Hagopian, Springfield, Mass.

Application June 21, 1950, Serial No. 169,441
2 Claims. (Cl. 90—59)



1. Work holding apparatus comprising in combination, a support having transversely spaced vertically extending bearing members, a housing between said bearing members in the form of a cup open at its upper side and provided with journals on opposite sides thereof rotatable in said bearing members for swinging of said housing on a horizontal axis, said cup provided with a lower wall, a magnetized chuck within said housing having an upper work supporting face and a lower face, ball races carried by the lower face of the chuck and lower wall of the housing provided on adjacent faces with aligned concentric ball races, a series of balls in said races whereby said chuck is rotatable in the housing on an axis transversely to said horizontal axis, means at the lower side of said housing and chuck limiting upward axial movement of the chuck relative to the housing, means in threaded engagement with said journals for engagement with said chuck to hold the same against rotation relative to said housing, an indexing ring fixed on said chuck at the open upper side of the housing, and registrable indicia carried by said ring and housing.

2,595,138

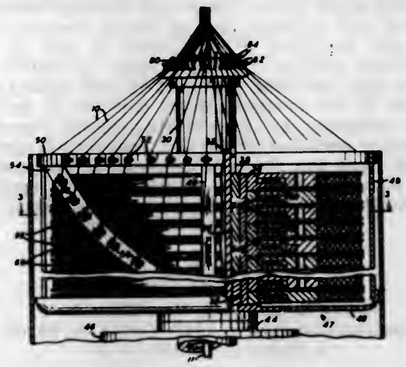
STRAND SERVING APPARATUS

James O. Hamilton, Dundalk, Md., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application November 21, 1950, Serial No. 196,779
4 Claims. (Cl. 57—17)

1. A strand-handling unit, which comprises a plurality of annular reel-holders of which each has an outer peripheral flange at the bottom thereof, a plurality of vertically extending sleeves having stops at the lower ends thereof supporting the reel-holders thereon in groups, means holding the reel-holders against rotation relative to the sleeves, a plurality of friction rings mounted on the flanges, a plurality of reels mounted on the holders of which each has an inner peripheral flange resting on one of the braking rings, a

hollow shaft mounting the sleeves one on top of the other and splined thereto, means for ro-



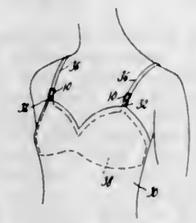
tating the shaft, and filament guides rotated with the shaft.

2,595,139

SLIP CLIP AND COMBINATION GARMENT

Lucille Hart, New York, N. Y.

Application April 7, 1951, Serial No. 219,832
3 Claims. (Cl. 2—73)



1. A woman's garment combination comprising a slip having ribbon loops attached at spaced points on the upper margin thereof, a brassière having shoulder straps attached thereto, and clips connecting said ribbon loops to said straps, each clip comprising a flat body portion, an arm on said body portion extending substantially parallel with an edge of said body portion and bent adjacent its end toward said body portion to provide reentrant end portion and to form a hook, the reentrant portion of said arm extending back alongside of the main portion of the arm approximately to the median point of said body portion, said main portion of the arm being spaced from said edge of the body portion for approximately half of its length and from the reentrant hook-forming portion of the arm for the remainder of its length to provide a slot, said reentrant portion itself being spaced from said lower edge of the body portion of the clip to provide a second or entrance slot which communicates with said first-named slot at a point near the center thereof, a pair of mutually inwardly extending arms on the clip at the opposite edge thereof, said last named arms being spaced from said opposite edge of the clip, and the inwardly directed ends of said arms being spaced from each other to form a T-shaped slot at the opposite edge of the clip, to receive and grip a strap or tape and the slot formed by the hooked-shaped arm being at the lower portion of the clip and receiving one of said ribbon loops, and one of the brassière straps passing through both the first-named slot and the transverse portion of the T-shaped slot.

2,595,140

OXIDATION RESISTANT LUBRICATING OIL COMPOSITION

Raymond L. Heinrich, Baytown, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware

No Drawing. Application December 1, 1950, Serial No. 198,723
5 Claims. (Cl. 252—50)

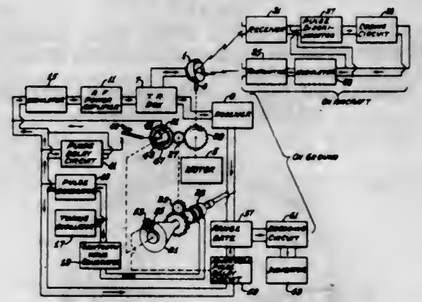
1. An oxidation resistant lubricating oil composition which comprises a polymer boiling in the lubricating oil boiling range of an alpha olefin having from 5 to 10 carbon atoms in the molecule, said polymer having lubricating oil properties and being susceptible to oxidation and not less than 0.1% by weight of carbazole.

2,595,141

RADIO SYSTEM FOR AIRCRAFT IDENTIFICATION

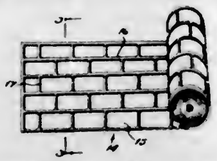
Philip J. Herbst, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application October 10, 1946, Serial No. 702,423
2 Claims. (Cl. 343—6)



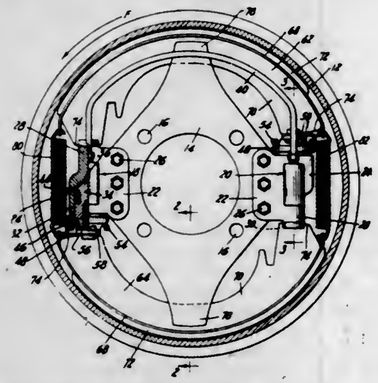
1. An identification system for mobile craft, comprising, on each craft to be identifiable, a responder beacon including a transmitter, a modulator connected to said transmitter, and a receiver; means for applying output from said receiver directly to said modulator, a coding circuit connected to said modulator to effect transmission of a coded signal characteristic of the particular craft, and means responsive to reception by said receiver of a special interrogation signal to activate said coding circuit only when said interrogation signal is received; a radar station on the ground including means with a radar transmitter for directionally transmitting signals to said beacons, and means for receiving said signals after retransmission by said beacons, means for indicating azimuth of said directional transmission and the delay with respect thereto in reception of said retransmitted signals, thereby showing the ranges and bearings of said beacons from said station; means for generating said interrogation signals, means for applying said signals to said radar transmitter only when said transmitter transmits in a selected direction and not when said transmitter transmits in other directions; a decoding circuit, and means for applying output from said radar receiver to said decoding circuit only upon reception of signals retransmitted thereto from a beacon at a selected range, and indicator means connected to said decoding circuit and responsive thereto to provide identification of a craft at said selected range and in said selected direction from said radar station.

2,595,142
METHOD FOR PRODUCING DESIGNS ON BUILDING WALLS
John Herck, Jacksonville, Fla., assignor to The Ce-Brick Corporation, New Rochelle, N. Y.
Application February 12, 1949, Serial No. 76,031
3 Claims. (Cl. 18—61)



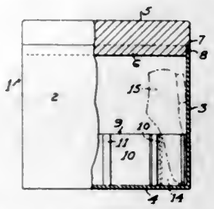
2. In a process for producing an ornamental face on a wall, the steps of securing a removable pattern on the wall, said pattern having apertures therein corresponding to the design to be produced, filling said apertures with a plastic composition, permitting said composition to harden, wetting the pattern, said pattern being adapted to absorb water and to be soft, easily tearable and removable in such condition.

2,595,143
BRAKE
Bryan E. House, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application June 6, 1946, Serial No. 674,772
2 Claims. (Cl. 188—78)



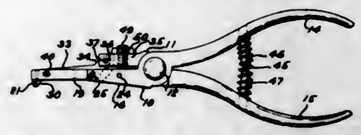
1. For use in cooperation with a rotatable brake drum, a brake comprising a support plate adapted to be secured to a non-rotatable member and having two integral outwardly extending axially offset guide arms located at opposite sides of the brake, two hydraulic actuators located at opposite sides of the brake substantially midway between the aforementioned guide arms and each comprising a casing closed at one end only and provided with a substantially radially extending flat-bottomed slot in the outer surface of said closed end, each casing having an integral flat flange by means of which it is secured to the support plate and a cylindrical bore at its open end which is on an axis lying in the plane of the support plate, a single piston reciprocable in the cylindrical bore of each casing, said piston having a threaded opening in its outer end and a toothed outer periphery, an adjusting screw associated with each piston having a threaded stem extending into the threaded opening of the piston and having a head provided with a flat-bottomed slot, two T-section shoes each having a strengthening web which lies in the plane of the support plate, each of said shoe webs centrally engaging one of the support plate guide arms and having convexly curved end surfaces, one of which extends into the slot provided in the head of one of the adjusting screws, and the other of which extends into the slot provided in the closed end of one of the casings and is capable of moving both pivotally on and sliding along the flat-bottomed surfaces of the slot, and return springs which urge the shoes toward retracted position and also hold the webs of the shoes in engagement with the supporting plate guide arms.

2,595,144
HASSOCK
Harry H. Isaacson, New York, N. Y.
Application June 2, 1949, Serial No. 96,669
1 Claim. (Cl. 155—169)



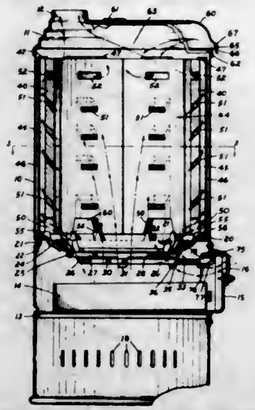
A hassock stool for sitting purposes having the combination of a rigid sustaining upright wall formed as a tubular body, said tubular body having a bottom wall, a cushioned seating top resting upon the rim of said tubular body and being removable from said body for access thereinto, said bottom wall having thereupon a series of rigid arcuate members securedly joined to each other to constitute a unitary corrugated-like framing, each of said arcuate members opposing a segment of said upright wall to form with said segment a through bore open at its bottom and leading to said bottom wall to constitute a retaining device for a shoe, and said framing being removable from said tube for the cleansing of the framing and tube.

2,595,145
WIRE CUTTER
Vernon A. Jensen, Chicago, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 8, 1946, Serial No. 708,507
3 Claims. (Cl. 30—182)



1. A pliers type wire cutter comprising a pair of levers pivoted one on the other intermediate their ends and having handle portions on one end of each of said levers, spring means for urging the ends of the levers apart, a transversely extending cutting jaw formed on the end of one of said levers, a cutting element directly pivoted at one end to the end of said other lever for movement therewith and having a cutting jaw engageable in abutting relation with the cutting jaw on said one lever, and a pin and slot means interconnecting said cutting element and said one lever for guiding said cutting element toward and away from said cutting jaw on said one lever in response to movement of said levers relative to each other.

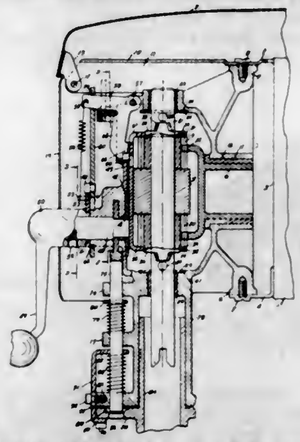
2,595,146
MAGAZINE TYPE SOLID FUEL BURNING HEATER
Bertrand B. Kahn, Cincinnati, and Paul F. Metz, Hamilton, Ohio, assignors to Noma Electric Corporation, New York, N. Y., a corporation of Maryland
Application January 23, 1947, Serial No. 723,822
2 Claims. (Cl. 126—73)



1. A heater of the character described comprising, in combination, a cylindrical casing, a refractory lining within said casing forming a fuel magazine, a grate positioned below said magazine, a plurality of angularly spaced inward projections on said casing supporting said grate, a plurality of downward projections on said grate cooperating with said inward projections on said casing to secure said grate and casing in fixed angular relation, said lining having vertically arranged flues formed in the outer surface thereof and angularly spaced about said heater, means providing for admission of air to said flues from below said grate, said lining having a plurality of vertically spaced rows of passages formed therethrough and communicating with said flues to convey gases from the interior of said magazine to said flues, the passages in the lowermost of said rows being formed in the lower edge of said lining, and means on said grate engaging opposite sides of at least one of said lowermost passages to secure said lining and grate in fixed angular relation.

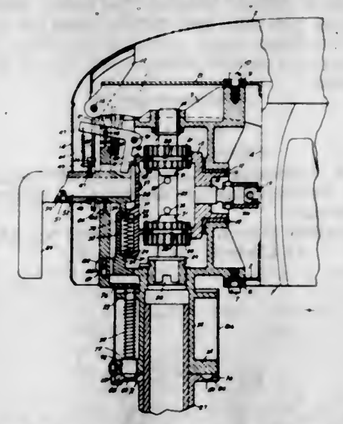
2,595,147
AUTOMATIC INDEX DEVICE FOR WRINGERS
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, a corporation of Pennsylvania
Application May 22, 1946, Serial No. 671,593
20 Claims. (Cl. 68—255)

1. In a swinging wringer, index means yieldably centering and holding the wringer in any one of a plurality of angular positions, said index means exerting a restraining force insufficient to prevent deliberate repositioning of the wringer by a push on the wringer, and a safety lock separate from and independent of the index means and movable to locking and unlocking positions, and in the locking position having interfitting parts with lost motion in the centered position of the wringer taken up by movement of the wringer under greater than normal wringing torque to positively limit movement



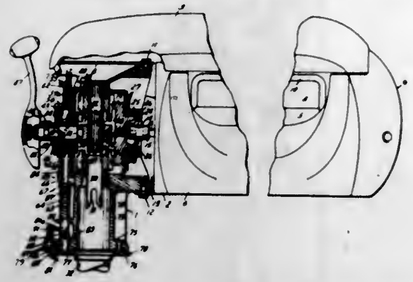
from the selected position, the lost motion being such that the yieldable index means exerts a restraining force up to the time the lost motion is taken up.

2,595,148
DRIVE AND WRINGER ROTATION LOCK FOR WRINGERS
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application August 7, 1946, Serial No. 689,043
6 Claims. (Cl. 68—255)



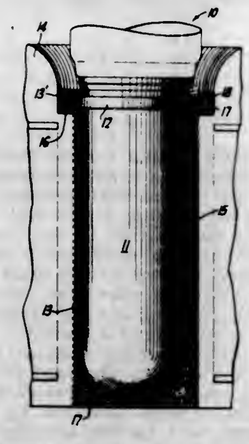
1. In a wringer having a head mountable for swinging movement on a wringer post and having roll drive gearing of the type biased to neutral by spring and torque action and with latch means holding the gearing in the driving position, the combination of a wringer frame mounted for movement relative to the head under the instinctive reaction of the user, index means swingable with the wringer for yieldably holding the head in any one of a plurality of angular positions including a surface cammed away from the post by movement of the head from the selected position, and releasing means for said latch means including a slide operated by said camming movement and having another operative connection actuated by the movement of the wringer frame relative to the head under the instinctive reaction of the user.

2,595,149
WRINGER
Walter L. Kauffman, II, Erie, Pa., assignor to Lovell Manufacturing Company, Erie, Pa., a corporation of Pennsylvania
Application August 8, 1947, Serial No. 767,615
14 Claims. (Cl. 68—255)



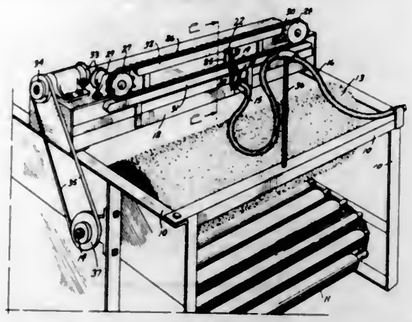
1. In a swinging wringer having a head, a frame articulated to the head, a detent yieldably indexing the head in any one of a plurality of angular positions, a roll reversing drive of the type latched in the driving position and biased to neutral, and a release for the roll drive latch, actuated by articulation of the frame from a center position, the combination of an index lock positively restraining movement of the head from an index position and having a lost motion connection with the drive such that the index lock can remain in the locked position while the drive moves from the driving position, means setting the index lock in the locking position with the setting of the drive in the driving position and releasing the index lock in the neutral position of the drive, means biasing the index lock from the locking position, and means blocking unlocking of the index lock upon articulation of the frame from its center position but not in its center position.

2,595,150
COOLING UNIT
Milton B. Lemeshka, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1949, Serial No. 84,631
10 Claims. (Cl. 313—21)



1. The combination with an electron discharge device having a part to be cooled, of a cooler having a coefficient of expansion substantially different from that of the part to be cooled and including a receptacle-like portion, said part being seated in said portion, and a normally solid heat transfer medium forming a mechanical bond between said cooling unit and said device when solid and having a melting point below the normal operating temperature of said cooler for improved cooling of the part to be cooled.

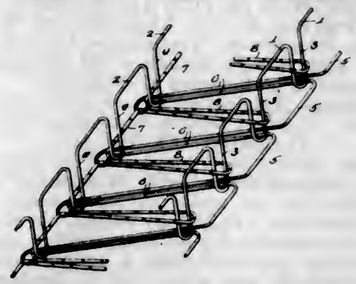
2,595,151
POTATO WAXING MACHINE
Thorval J. Lockwood, Gering, Nebr.
Application June 26, 1950, Serial No. 170,371
4 Claims. (Cl. 118—13)



1. Means for waxing potatoes as they are carried along on a conveyor, comprising: a rotatable, horizontal cylindrical brush mounted above and transversally of said conveyor; means for rotating said brush; a supporting frame mounted above and parallel to said brush; a drive sprocket adjacent one extremity of said frame; a similar driven sprocket adjacent the other extremity thereof in horizontal alignment with said drive sprocket; an endless chain trained about said sprockets so as to travel horizontally parallel to said brush; means for driving said sprockets; a spray nozzle; means for supplying liquid wax to said nozzle; an angle clip secured to said chain and positioned to extend inwardly from one reach thereof toward the other reach thereof; and a hanger member hinged to said clip at a point substantially on a line extending between the axes of said sprockets and suspending said nozzle from said clip so that the nozzle will travel back and forth in a horizontal plane with the movement of the chain.

2,595,152
SEAM FOR JOINING THE MEETING OR OVERLAPPING EDGE PORTIONS OF FABRIC SECTIONS
Friedrich Lutz, Stuttgart, Germany, assignor to Union Special Maschinenfabrik, G. m. b. H., Stuttgart, Wurttemberg, Germany
Application October 6, 1950, Serial No. 188,716
In Germany May 12, 1950
5 Claims. (Cl. 112—262)

1. A flat seam for sewed articles comprising opposed fabric sections, stitching threads joining the fabric sections including, a plurality of opposed needle thread loops penetrating the respective fabric sections in rows parallel with each other, a first looper thread passing transversely of the fabric sections through all of the opposed needle thread loops on the underface of the fabric sections and a second looper thread passing through said first looper thread loop as it emerges from a needle thread loop, said second looper thread loop extending across the fabric sections and locked by one of the succeeding needle thread loops.



2,595,153
FORECASTING CALCULATOR
George V. Malmgren, Chicago, Ill.
Application April 3, 1951, Serial No. 218,920
3 Claims. (Cl. 235—87)



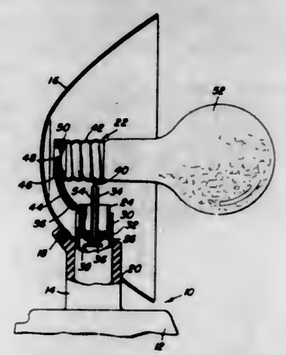
1. A forecaster comprising a central shaft, a sleeve rotatably mounted on said shaft, said sleeve being provided with a plurality of windows which are all aligned and part of which are elongated longitudinally while others are circular, annular columns of notations on said shaft beneath said circular windows, spaced-parallel strips of data on said shaft beneath said longitudinal windows grouped in annular displays, one display for each of said longitudinal windows, the strips in the several displays being aligned with each other and with corresponding notations, a plurality of plastic cylinders rotatably mounted on said sleeve, one cylinder being provided for each longitudinal window and for each display of data strips, said cylinders being opaque but being provided with a series of transparent circular windows registering with said longitudinal windows and arranged in a spiral so that as a cylinder is rotated predetermined segments of a data strip become visible through said transparent windows when the latter are in registry with said elongated windows and with said strip of data, at least one of said cylinders also being provided with annular transparent strips above the circular windows of said inner sleeve so that the notations corresponding to said strip of data remain visible as the cylinder is rotated, means for preventing accidental detachment of said sleeve and said cylinders from said shaft and means for rotating said shaft with respect to said sleeve.

2,595,154
TRUSS
Edward Mantel, Harvel, Ill.
Application June 22, 1950, Serial No. 169,562
5 Claims. (Cl. 128—117)

1. In a truss, a pad comprising a main body member and a local pressure applicator composed of inherently resilient material, said body member being of substantially herispherical solid form with a widest portion forming a flat base surface and, said member having a central concave recess of slightly greater than hemispherical shape in the crown portion thereof, said pressure applicator being of substantially spherical form and having slightly more than one half thereof snugly fitted and seated in said recess of the body member, the remaining minor portion of said pressure applicator protruding from said recess beyond the crown surface of the body member, the portion of the body member at the top of said recess gripping the pressure applicator outwardly of its equator to aid in holding said applicator in the recess, said crown portion having a pressure applying surface supplementing the minor portion of said pressure applicator in applying pressure.



2,595,155
LIGHT SOCKET ADAPTER FOR PHOTOGRAPHIC FLASHLIGHT BULBS
Arthur Mastrangelo, Queens Village, N. Y.
Application November 26, 1948, Serial No. 61,988
3 Claims. (Cl. 173—344)

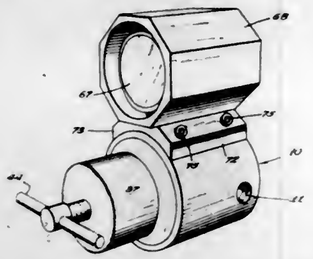


1. An extension socket comprising a conductive sleeved base having an insulating lower wall, a conductive arm extending axially through the base and the lower wall and including a flattened end disposed exteriorly of and against the lower wall of said base to form a contact, a conductive socket member fixed to the other end of said arm and supported relative to said base solely by said arm, and a conductor attached at one end to said base and having its other end extending into said socket member.

2,595,156
PRESSURE REGULATOR GAUGE GUARD
John L. Matasovic, Chicago, Ill.
Application March 9, 1949, Serial No. 80,495
3 Claims. (Cl. 73—389)

1. A pressure regulator comprising, in combination, a reducing valve body comprising a generally cylindrical housing, a low pressure gauge and a high pressure gauge having mounting nipples threaded into the cylindrical exterior surface of the housing at points spaced apart from each other; said gauges being in axial alignment and oppositely disposed with respect to each

other; together with a relatively long, hollow tubular guard surrounding both of said gauges



and removably secured to the outer walls of the reducing valve housing.

2,595,157

CLOCK MECHANISM AND PARTS FOR THE ASSEMBLY THEREOF

Jack Mayer, New York, N. Y.

Application April 28, 1950, Serial No. 158,778
9 Claims. (Cl. 58—2)



1. A clock construction comprising a casing having an open front end, side walls defining said front end of said casing, one of the side walls having parallel spaced slots extending from the front edge of the casing and having stop portions at the rearward ends of the same, a clock mechanism having projections extending into the slots whereby the clock mechanism can be assembled from the open front end of the casing into the slots, said slots having guide portions extending parallel to the side wall face whereby said clock mechanism is held against inward displacement, a vertically extending supporting plate having clip means on the rear face thereof, said casing having shoulders for receiving the clip means whereby the casing may be secured to the vertical supporting plate, and means on the clock mechanism engageable with the side walls of the casing to retain the clock mechanism against sliding movement in the slots and toward the vertical supporting plate, said vertical supporting plate having an opening therein, said clock mechanism having an extension extending through the opening in the plate, and hands connected to the extension.

2,595,158

RUST PREVENTING COMPOSITION AND METHOD OF PREPARING SAME

Cyril Frederick McCue, Kingston, and William Edwin John Broom, Westminster, London, England, assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application June 9, 1949, Serial No. 98,154. In Great Britain September 30, 1948
12 Claims. (Cl. 106—14)

1. The process of preparing a rust preventing coating composition capable of forming a hard polishable film on metal surfaces, which comprises dissolving 5 to 20% by weight, based on the total composition, of a microcrystalline wax in a hydrocarbon solvent having a boiling point between about 40° and about 150° C., heating said solvent to a temperature of at least 40° C. to facilitate solution and dispersion of said wax, adding 0.5 to 3% of metal soap of C_{12} to C_{22} fatty acid and 0.5 to 3% of a rust inhibitor comprising lanolin, and thereafter rapidly chilling with continuous agitation to obtain a stable suspension of small wax particles in salt water.

9. A rust preventing composition consisting essentially of 5 to 20 weight %, based on the total composition, of a suspension of small microcrystalline wax particles in a volatile solvent in which the wax is sparingly soluble at room temperature, said solvent boiling below about 150°, and 0.5 to 3.0% by weight of a corrosion inhibitor, said suspension being formed by dissolving said wax in said solvent at a temperature of at least 40° C. and thereafter cooling rapidly the resulting solution with continuous agitation.

2,595,159

PREPARATION OF VITAMIN B_{12} CONCENTRATES FROM STREPTOMYCES GRISEUS CULTURES

Curtis E. Meyer and William H. De Vries, Kalamazoo, Mich., assignors to The Upjohn Company, Kalamazoo, Mich., a corporation of Michigan

No Drawing. Application February 25, 1949, Serial No. 78,458
13 Claims. (Cl. 167—81)

1. A process for the preparation of a concentrate having vitamin B_{12} activity from a *Streptomyces griseus* culture containing streptomycin, which comprises: eluting a mycelial cake obtained as a byproduct in the separation of streptomycin from the fermentation broth, which mycelial cake is substantially free from streptomycin and contains substances having vitamin B_{12} activity, with an aqueous solution of an organic solvent of the group consisting of water-miscible alcohols and ketones at a pH within the range from approximately 6.0 to 11.0.

2,595,160

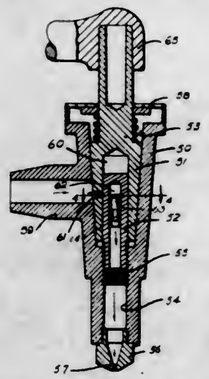
VALVE

John W. Miller, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan

Application May 16, 1946, Serial No. 670,173
3 Claims. (Cl. 277—32)

1. A metering valve for gaseous fuel comprising a tubular valve body having a fuel inlet port in a side thereof, a rotary plug closing one end of said tubular valve body and an outlet orifice at the other end of the valve body, said rotary plug having an axially extending recess in its inner end and a circumferential slot through the side wall of said plug and communicating

with said axial recess, a fuel regulating member in said valve body and plug and adjustable axially thereof and controlling the flow of fuel from said inlet port through the valve body and plug to the outlet orifice, said fuel regulating member being connected to said plug for axial movement relative thereto as said plug is rotated, said plug being rotatable to one position where said slot communicates with said fuel inlet port and to another position where said slot is offset from the fuel inlet port and the rotary plug serves as a valve for positively



closing the fuel inlet port, said fuel regulating member being provided with an outlet passage communicating with said outlet orifice and having a fuel metering port therein communicating with said outlet passage, said fuel regulating member being movable axially relative to and in response to rotation of said plug member to bring said metering port progressively into and progressively out of registration with said circumferential slot whereby the quantity of gas flowing through said valve can be accurately controlled by the rotative position of said plug member.

2,595,161

LUBRICATING COMPOSITION

Arnold J. Morway, Clark Township, Union County, and David W. Young, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application May 24, 1950, Serial No. 164,034
5 Claims. (Cl. 252—42.1)

1. A lubricating grease composition consisting essentially of a lubricating oil thickened to a grease consistency with a metal soap of a fatty acid having combined therein a minor but oxidation resistance improving amount of bis(5-methyl-2-hydroxy phenyl) sulfide.

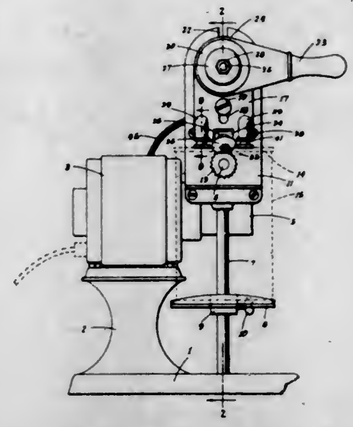
2,595,162

ELECTRIC CAN OPENER

Reinhardt Nessler, Stockton, Calif.

Application November 6, 1950, Serial No. 194,296
2 Claims. (Cl. 30—4)

1. In a power driven can opener, a flat upstanding backing plate fixedly mounted, a flat upstanding mounting plate flush against the backing plate, means securing the mounting plate to the backing plate for guided vertical sliding motion, manually actuated means to so slide the mounting plate between raised and lowered positions, a driven shaft projecting forwardly and horizontally below the mounting plate, a can feed wheel on the forward end of the shaft, a rotary, can top cutter secured to the lower end of the mounting plate in cooperative relation to but



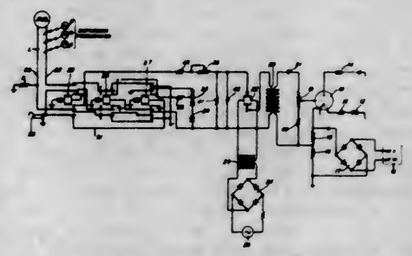
above the can feed wheel, and a pair of separate can hold-down spring-urged plunger units secured to the lower end of the mounting plate with the rotary cutter disposed therebetween.

2,595,163

ELECTRONIC VOLTMETER TEST CIRCUIT FOR MEASURING HIGH-RESISTANCE LEAKS

William Edward Niederau, Arlington, David Ritchie, Jr., North Plainfield, and Paul L. Wright, Newark, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 16, 1950, Serial No. 179,844
5 Claims. (Cl. 179—175)



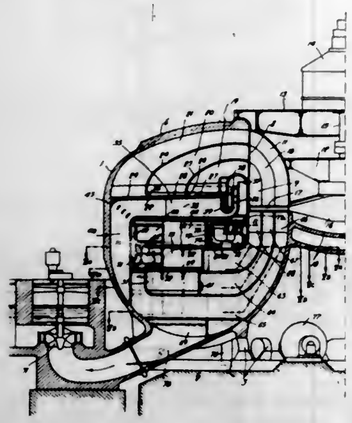
1. The combination of a line circuit one conductor of which includes a leakage path to ground, a plurality of sources of current of different known frequencies so located with respect to said line as to inductively influence it, and a line insulation test circuit comprising a vacuum tube having an output circuit and an input circuit, a meter in the output circuit of said vacuum tube, a test battery, a high impedance circuit including a resistance element of relatively low impedance, a condenser connected in parallel with the said low impedance resistance element, manually operable means for completing a series circuit including said test battery, said high impedance circuit and the said one conductor of said line circuit and its leakage path, switching means for connecting the said low impedance element across the input circuit of said tube, and means for driving said switching means at a predetermined frequency.

2,595,164

STEAM POWER PRODUCING PLANT WORKING WITH TWO WATER SOURCES, THE DIFFERENCE OF TEMPERATURE OF WHICH IS SMALL

Léon Nisolle, Paris, France, assignor to Centre National de la Recherche Scientifique, Paris, France, a corporation of France

Application April 18, 1946, Serial No. 663,040
In France March 24, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 24, 1963
18 Claims. (Cl. 290—2)



1. A steam power producing plant capable of working between two sources of water, one a hot source and the other a cold source, the difference of temperatures of which is very small and in which the work steam is produced from the hot source in steam generators, said steam being condensed after expansion by means of the water of the cold source, the said plant comprising on the one hand an outer continuous and tight casing shaped approximately as a hollow tore with a vertical axis, a shaft coaxial with said casing, a turbine wheel on said shaft having peripheral blades arranged in the central part of said casing, a unit formed by successive steam generators and condensers wholly in said casing, inlet piping in said casing for leading the water from the hot source to said steam generators and the water from the cold source to said condensers respectively, discharge piping from the condensers, and piping for leading the work steam from said generators to said turbine blades and from said blades to said condensers, and on the other hand peripheral pumps arranged around the toric casing and connected with the inlet and outlet piping for the cold and warm water.

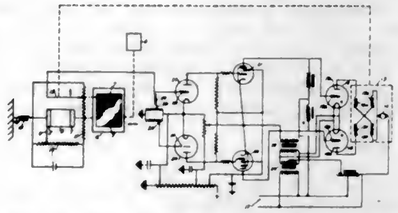
2,595,165

FOLLOW-UP CONTROL

Ralph D. Owen, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application August 9, 1946, Serial No. 689,427
2 Claims. (Cl. 318—28)

1. In a follow-up motor control, a reversible series motor having field windings for the respective directions of rotation wound on the same pole piece and each fed from an alternating current supply through a grid controlled gaseous discharge device, phase control amplifiers controlling the phase angle at which the respective discharge devices fire, said amplifiers being biased to fire the discharge devices simultaneously at the balanced condition and produce cancelling effects in the motor, and means responsive to



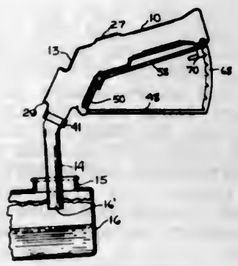
the lag or lead of the motor with respect to the condition to be followed for changing the bias on one of the amplifiers in the sense to cause movement of the motor toward the balanced condition.

2,595,166

LIQUID LEVEL CONTROLLED FILLING SPOUT

Oliver F. Rhodes, Peru, Ind.

Application January 6, 1951, Serial No. 204,710
6 Claims. (Cl. 226—127)



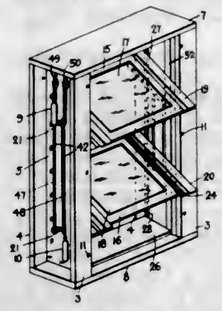
1. A filling spout comprising a handle having a passage therein and terminating into a tubular portion, a valve structure arranged between the passage and the tubular portion for controlling the flow of liquid from the passage into the tubular portion, a hand guard having one end portion connected to the handle and an opposite end portion connected to the tubular portion, an operating rod effective for opening the valve of said valve structure, a toggle structure having one end portion pivotally connected to the tubular portion and provided at its opposite end portion with a roller, a raceway for said roller carried by said tubular portion, one end portion of said operating rod being pivotally connected to the roller bearing end of the toggle structure, said rod extending lengthwise with respect to the handle and having an end portion providing a latch, said hand guard providing a plurality of notches adapted to be selectively engaged by the latch, a cylinder provided by said tubular portion at one side thereof, a piston in said cylinder including a stud shaft adapted to engage centrally said toggle, and means in said tubular portion for cutting off the flow of liquid from said tubular portion to effect operation of the piston to move the shaft thereof against the toggle to collapse the latter and disengage the latch of said rod from one of said notches to effect pivotal movement of said rod under the action of said valve structure.

2,595,167

WINDOW CONSTRUCTION

Edgar C. Richardson, Wenonah, N. J.

Application February 4, 1947, Serial No. 726,405
4 Claims. (Cl. 20—45)



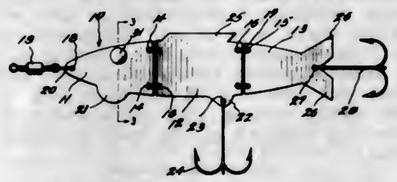
1. A window comprising a pair of vertical boards each having a longitudinal slot; horizontal boards connecting the upper and the lower ends of the vertical boards, the vertical and the horizontal boards forming a frame; a pair of upper guiding bars and a pair of lower guiding bars, each of said guiding bars having a longitudinal slot opposite to and in registration with one of said slots in said vertical boards; bolts extending from central portions of the guiding bars and passing through corresponding holes in the vertical boards rotatively supporting the guiding bars at the inner sides of the vertical boards; and upper and lower sash frames, the guiding bars having longitudinal grooves for the respective sash frames, the ends of the grooves in the upper guiding bars registering with the ends of the grooves in the lower guiding bars when the guiding bars are turned into a vertical position, thereby forming continuous grooves for the vertical movement of the sash frames; and means including a spring biased rod in each opposed pair of said slots to yieldably retain the guiding bars in a vertical alignment with the window closed.

2,595,168

FISHING LURE

Irven George Roth, Lorain, Ohio

Application August 20, 1946, Serial No. 691,754
1 Claim. (Cl. 43—42.15)



An artificial fishing lure comprising a relatively long body made up of a plurality of elongate plates, each of said plates having a uniform longitudinally arcuate curvature, the plates being arranged in edge opposed relation, hinge coupling means between adjacent edges of the plates whereby the plates have relative hinge movement on axes extending transversely of the body length, the plate members being coupled together with the curvatures in alternating relation whereby the body is given a substantially ogee curvature, the plates at the front and rear ends of the body having the shape of the head and tail portions respectively of a fish, the head plate and another plate each having a projecting bottom edge portion simulating a fin, means for attaching a line to the head portion, a hook attached to the fin of said other plate, and a hook attached to said tail portion.

2,595,169

STEAM TURBINE LUBRICANTS

Harry W. Rudel, Roselle Park, and Jones I. Wasson, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 25, 1946, Serial No. 643,456
10 Claims. (Cl. 252—48.2)

1. A lubricating composition consisting essentially of mineral base lubricating oil containing 0.01 to 0.5% by weight, of a compound selected from the class which consists of thioether substituted tetrahydrophthalic and hexahydrophthalic acids, and the anhydrides, and monoesters thereof having at least one thioether substitution including one organic radical attached in alpha position to an acyl radical through a thioether linkage.

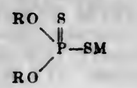
2,595,170

STABILIZED MINERAL OIL

Harry W. Rudel, Roselle Park, and Abraham D. Kirshenbaum, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 14, 1949, Serial No. 127,274
24 Claims. (Cl. 252—46.6)

1. A composition consisting essentially of a mineral oil and an oxidation inhibiting quantity of a product obtained by reacting a double-bonded non-aromatic, non-acetylenic hydrocarbon containing at least 3 carbon atoms with a sulfur halide selected from the class consisting of sulfur chlorides and sulfur bromides, whereby an intermediate product containing added sulfur and halogen is formed, and heating together at a temperature in the range of about 50° to 150° C. such intermediate product and a dithiophosphate compound of the formula



where R is a hydrocarbon radical selected from the group consisting of alkyl radicals, saturated cycloaliphatic radicals, aromatic radicals and alkaryl radicals, the radicals having from 2 to 30 carbon atoms each, and M is an alkali metal under conditions whereby the halogen in said intermediate product is substantially completely replaced by dithiophosphate radicals.

2,595,171

ELECTRICAL REMOTE CONTROL FOR GAS BURNERS

Richard J. Schaefer, Detroit, Mich.

Application February 15, 1947, Serial No. 728,752
8 Claims. (Cl. 158—123)

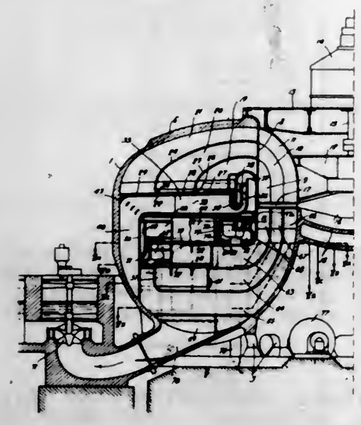
6. In combination a gas burner adapted to be connected to a source of gas under pressure, a valve controlling the flow of gas to the burner, an electromagnet having an armature arranged to open and close said valve when said electromagnet is energized and deenergized, respectively, a source of electricity, a rotary switch in series with said electromagnet and source of electricity, a thermostatic switch in said circuit, said rotary

2,595,164

STEAM POWER PRODUCING PLANT WORKING WITH TWO WATER SOURCES, THE DIFFERENCE OF TEMPERATURE OF WHICH IS SMALL

Léon Nisolle, Paris, France, assignor to Centre National de la Recherche Scientifique, Paris, France, a corporation of France

Application April 18, 1946, Serial No. 663,040
In France March 24, 1943
Section 1, Public Law 690, August 8, 1946
Patent expires March 24, 1963
18 Claims. (Cl. 290—2)



1. A steam power producing plant capable of working between two sources of water, one a hot source and the other a cold source, the difference of temperatures of which is very small and in which the work steam is produced from the hot source in steam generators, said steam being condensed after expansion by means of the water of the cold source, the said plant comprising on the one hand an outer continuous and tight casing shaped approximately as a hollow tore with a vertical axis, a shaft coaxial with said casing, a turbine wheel on said shaft having peripheral blades arranged in the central part of said casing, a unit formed by successive steam generators and condensers wholly in said casing, inlet piping in said casing for leading the water from the hot source to said steam generators and the water from the cold source to said condensers respectively, discharge piping from the condensers, and piping for leading the work steam from said generators to said turbine blades and from said blades to said condensers, and on the other hand peripheral pumps arranged around the toric casing and connected with the inlet and outlet piping for the cold and warm water.

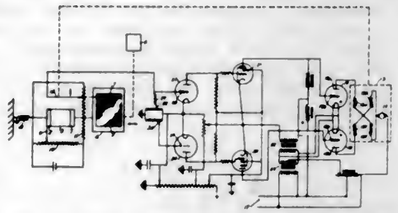
2,595,165

FOLLOW-UP CONTROL

Ralph D. Owen, Erie, Pa., assignor to Lord Manufacturing Company, Erie, Pa., a corporation of Pennsylvania

Application August 9, 1946, Serial No. 689,427
2 Claims. (Cl. 318—28)

1. In a follow-up motor control, a reversible series motor having field windings for the respective directions of rotation wound on the same pole piece and each fed from an alternating current supply through a grid controlled gaseous discharge device, phase control amplifiers controlling the phase angle at which the respective discharge devices fire, said amplifiers being biased to fire the discharge devices simultaneously at the balanced condition and produce cancelling effects in the motor, and means responsive to



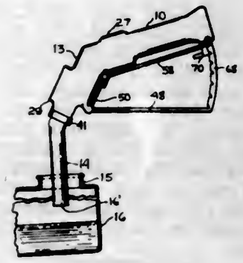
the lag or lead of the motor with respect to the condition to be followed for changing the bias on one of the amplifiers in the sense to cause movement of the motor toward the balanced condition.

2,595,166

LIQUID LEVEL CONTROLLED FILLING SPOUT

Oliver F. Rhodes, Peru, Ind.

Application January 6, 1951, Serial No. 204,710
6 Claims. (Cl. 226—127)



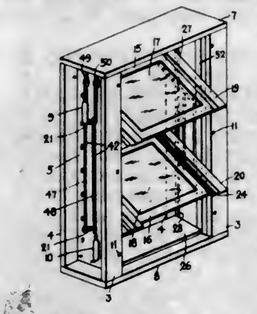
1. A filling spout comprising a handle having a passage therein and terminating into a tubular portion, a valve structure arranged between the passage and the tubular portion for controlling the flow of liquid from the passage into the tubular portion, a hand guard having one end portion connected to the handle and an opposite end portion connected to the tubular portion, an operating rod effective for opening the valve of said valve structure, a toggle structure having one end portion pivotally connected to the tubular portion and provided at its opposite end portion with a roller, a raceway for said roller carried by said tubular portion, one end portion of said operating rod being pivotally connected to the roller bearing end of the toggle structure, said rod extending lengthwise with respect to the handle and having an end portion providing a latch, said hand guard providing a plurality of notches adapted to be selectively engaged by the latch, a cylinder provided by said tubular portion at one side thereof, a piston in said cylinder including a stud shaft adapted to engage centrally said toggle, and means in said tubular portion for cutting off the flow of liquid from said tubular portion to effect operation of the piston to move the shaft thereof against the toggle to collapse the latter and disengage the latch of said rod from one of said notches to effect pivotal movement of said rod under the action of said valve structure.

2,595,167

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Edgar C. Richardson, Wenonah, N. J.

Application February 4, 1947, Serial No. 726,405
4 Claims. (Cl. 20—45)



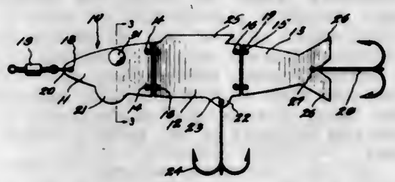
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2,595,168

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Irven George Roth, Lorain, Ohio

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2,595,169

STEAM TURBINE LUBRICANTS

Harry W. Rudel, Roselle Park, and Jones I. Wasson, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 25, 1946, Serial No. 643,456
10 Claims. (Cl. 252—48.2)

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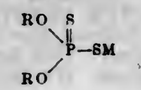
2,595,170

STABILIZED MINERAL OIL

Harry W. Rudel, Roselle Park, and Abraham D. Kirshenbaum, Union, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 14, 1949, Serial No. 127,274
24 Claims. (Cl. 252—46.6)

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where R is a hydrocarbon radical selected from the group consisting of alkyl radicals, saturated cycloaliphatic radicals, aromatic radicals and alkaryl radicals, the radicals having from 2 to 30 carbon atoms each, and M is an alkali metal under conditions whereby the halogen in said intermediate product is substantially completely replaced by dithiophosphate radicals.

2,595,171

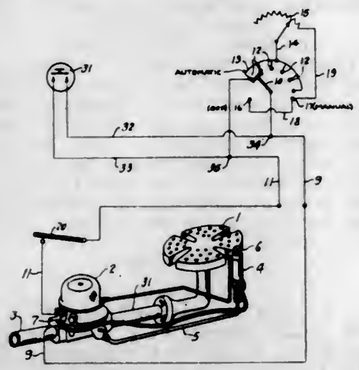
ELECTRICAL REMOTE CONTROL FOR GAS BURNERS

Richard J. Schaefer, Detroit, Mich.

Application February 15, 1947, Serial No. 728,752
8 Claims. (Cl. 158—123)

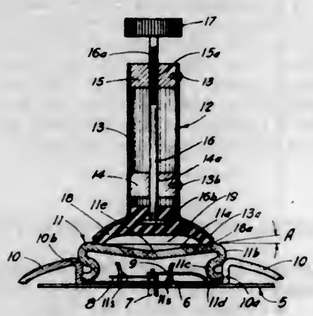
6. In combination a gas burner adapted to be connected to a source of gas under pressure, a valve controlling the flow of gas to the burner, an electromagnet having an armature arranged to open and close said valve when said electromagnet is energized and deenergized, respectively, a source of electricity, a rotary switch in series with said electromagnet and source of electricity, a thermostatic switch in said circuit, said rotary

switch being of the make-before-break type and having an automatic operation contact and a manual operation contact and being shiftable to corresponding automatic and manual positions, the automatic operation contact being in series circuit with the electromagnet, thermostatic switch and source of electricity when said rotary switch is in automatic position whereby the thermostatic switch controls the flow of current through said electromagnet when the rotary switch is in the automatic position, the manual



operation contact being in series circuit with the electromagnet and thermostatic switch when the rotary switch is in manual position whereby when the rotary switch is shifted from automatic to manual position and the thermostatic switch is closed said valve will remain open until the thermostatic switch opens and breaks the circuit, and means interposed in said last mentioned circuit for rendering the electromagnet ineffective to again open said valve when the thermostatic switch again closes and the rotary switch is in manual position.

2,595,172
WATCH CRYSTAL
Kurtiss P. Schenke, New York, N. Y.
Application August 2, 1946, Serial No. 687,863
5 Claims. (Cl. 58—91)

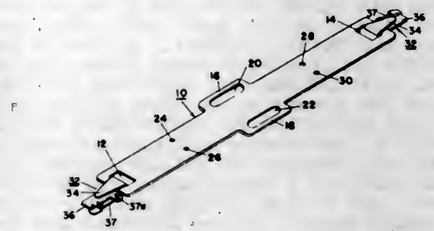


1. In a crystal for a watch having a bezel, a compound curved periphery on said crystal engageable with said bezel, said periphery having a plurality of radial slots and said crystal having a normally depressed portion adapted when flattened to cause disengagement of said periphery from said bezel.

2,595,173
TRITHIALS OF SALICALDEHYDE AND THEIR CHLORINATED DERIVATIVES AS INSECTICIDAL AND FUNGICIDAL COMPOSITIONS
Albert J. Shmidl, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
No Drawing. Application May 31, 1950, Serial No. 165,376
8 Claims. (Cl. 167—33)

1. A method for treating living plants which comprises forming a mixture of a minor amount of a compound selected from the group consisting of a trithial of salicylaldehyde and a reaction product thereof containing 22.5% by weight of chlorine and obtained by adding hydrogen sulfide and chlorine to a solution of salicylaldehyde in normal heptane at a temperature of about 85° F. to which a trace of anhydrous hydrogen chloride is added to initiate the reaction, at least 50% by weight of a diluent carrier vehicle, and a minor amount of a wetting agent, and applying said mixture to plants in an active state of growth to destroy insects and fungi on said plants.

2,595,174
CORSAGE HOLDER
Bessie Singer, Philadelphia, Pa.
Application March 10, 1950, Serial No. 148,827
4 Claims. (Cl. 24—6)

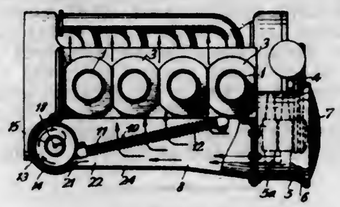


1. A corsage holder comprising a thin, flat blank of elongated rectangular shape having two oppositely disposed ends and two oppositely disposed marginal edges, said blank having a slot formed therein at each of its said two ends to receive devices for securing said blank either to an article or to a person, said blank being substantially wider at about its midportion thereby providing a projection on each of said marginal edges, each of said projections having a slot formed therein, said blank having an aperture formed therein intermediate said widened portion and each of said end slots, said corsage holder being flexible and conformable to the article and the part of the body to which it is applied.

2,595,175
AIR-COOLED INTERNAL-COMBUSTION ENGINE WITH AIR FILTER
Konrad Sonderegger, Winterthur, Switzerland, assignor to Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application November 21, 1950, Serial No. 196,744
In Switzerland November 24, 1949
6 Claims. (Cl. 123—41.48)

1. In an air-cooled internal combustion engine, comprising a plurality of finned cylinders, a cylinder cowling, a power-driven fan flanged to said cowling and delivering cooling air, a cowling duct through which the latter flows to and between

said cylinders, means for tapping combustion air from said duct, an air filter through which the combustion air flows, the filter being built into the cowling duct, and duct means through which the combustion air flows from the filter into the

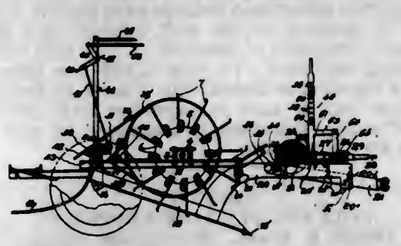


cylinders, the improvement defined by the provision of a transition duct intermediary of said tapping means and the filter inlet and shaped so as to afford a continuous smooth passage for the combustion air flowing into the filter with a view of minimizing entrance losses.

2,595,176
PRODUCTION OF WATER-SOLUBLE LITHIUM SALTS FROM LITHIUM ALKALI PHOSPHATES
Jerome W. Sprauer, Niagara Falls, N. Y., assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application February 4, 1949, Serial No. 74,705
3 Claims. (Cl. 23—87)

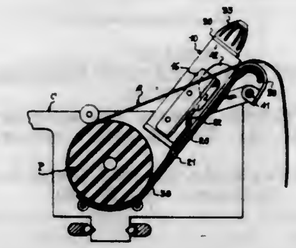
1. The process for production of a water-soluble lithium salt from a water-insoluble lithium alkali phosphate that involves treating the phosphate with an aqueous solution of a strong acid in amount less than the stoichiometric equivalent of the cationic portion of the lithium phosphate, adding to the resulting slurry from about three-quarters to about one and one-half mols of a soluble calcium salt for each mol of PO_4 present, and separating liquid phase from solid phase in the resulting mixture.

2,595,177
PEANUT HARVESTER PICKUP
Joseph D. Stevens, Cushing, Okla.
Application April 10, 1946, Serial No. 660,914
4 Claims. (Cl. 56—364)



1. In a peanut harvester, a mobile frame, a rotatable body journalled in the frame for rotation about a horizontal axis, a plurality of yieldable fingers extending outwardly from the rotatable body and fixedly secured to the said body, a plurality of spaced apart stripper bars mounted on the frame rearwardly of the rotatable body, each stripper bar including a length of metal curved longitudinally between its ends and having one of the ends underlying an intermediate portion of the metal and secured thereto to form a circular band, the opposite end of said metal length projecting rearwardly to form supports on which the vegetation is discharged rearwardly, the yieldable fingers on the rotatable body being adapted to travel in the spaces between the stripper bars during rotation of the rotatable body, the said rotatable body and yieldable fingers being eccentrically mounted with respect to the stripper bars so that the full length of the tines is exposed outside the curvature of the stripper bars when the tines are in a downward position, and so that the tines come to the curvature of the inside of the bars when the tines are in a vertical position, a source of power, and a drive connection between the source of power and the rotatable body.

2,595,178
TYPEWRITER PAGE END INDICATOR
Harry Charles Stricklin, Euclid, Ohio
Application August 25, 1950, Serial No. 181,378
3 Claims. (Cl. 197—189)

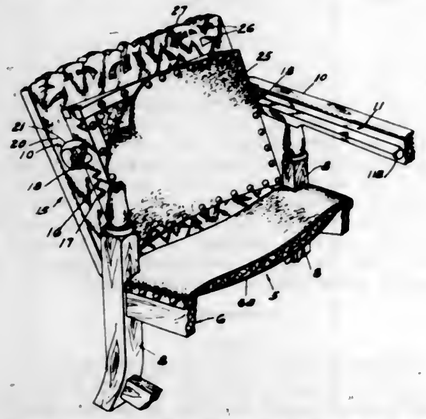


1. A page-end signal device for attachment to a typewriting machine comprising a hollow body of non-conducting material arranged to receive a flashlight cell, a bulb in said body disposed for contact with one terminal of the cell, a contact on said body for electrical connection with said bulb and another contact on said body for connection to the other terminal of said cell, one of said contacts including means for making a ground connection with the typewriter frame, the other contact having a spring finger for engaging the paper support of the typewriter adjacent the platen.

2,595,179
CHAIR CONVERTIBLE INTO A TABLE AND VICE VERSA
Ruby S. Vellé, Los Angeles, Calif.
Application May 2, 1950, Serial No. 159,522
3 Claims. (Cl. 155—43)

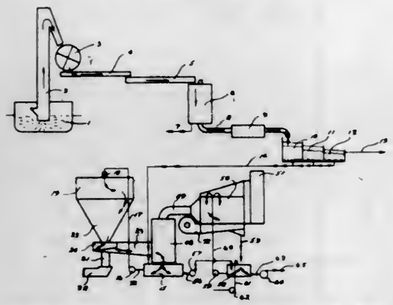
1. An interconvertible combination table and chair having a pair of substantially horizontal arm rests in each of which is a longitudinal groove facing the other arm rest, and a chair back member with outwardly projecting pins in its side edges at all times occupying said grooves to guide said member into and from table top forming position, said grooves each having a depression at its outer end, the spacing of said pins from the under side of the table top compared to the spacing of the grooves from the top faces of the arms maintaining the side portions of said member out of sliding contact with the upper surfaces of said arm rests during the movement of said member from chair back to table top position, and vice versa, and when said member is in its most forward table top forming position said

depressions providing seats for said pins which enable the operator to lower said member into a



contact with said arm rests wherein it is releasably held against backsliding.

2,595,180
PROCESS FOR TREATING FISH PRESS FLUIDS
Daniel B. Vincent, Tampa, Fla., assignor to Dan B. Vincent, Inc., Tampa, Fla., a corporation of Florida
Application September 30, 1948, Serial No. 51,983
10 Claims. (Cl. 99—2)

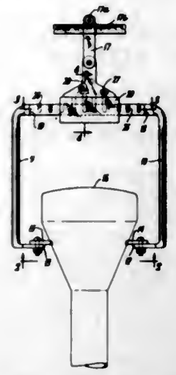


1. A process of treating unrefined fish stick which comprises the following steps: charging a spray of unrefined fish stick containing its naturally occurring dissolved and undissolved solids and nonaqueous materials in undiminished quantity and while at its natural pH value into a dehydrating zone and removing moisture from said fish stick while maintaining a heated non-oxidizing atmosphere in said zone and while maintaining said fish stick at a temperature between about 150° F. and about 170° F., and separating concentrated fish stick from vaporized moisture and said atmosphere.

2,595,181
STOCK FOOD AND PROCESS OF MAKING SAME
Daniel B. Vincent, Tampa, Fla.
No Drawing. Application October 5, 1949, Serial No. 119,771
12 Claims. (Cl. 99—2)

1. A method of preparing a moist, relatively stable, stock feed from citrus waste material which comprises shredding the citrus waste material and treating the shredded material with an alkaline compound to produce a mixture of a watery mother liquor and pressable pulpy solids, incorporating into the mixture a small amount of a preservative compound containing a carboxylic derivative of benzene from the group consisting of benzoic acid, salicylic acid, alkali metal salts of said acids and alkaline earth metal salts of said acids, storing the pulpy solid content of said mixture out of direct contact with the atmosphere while submerged in an aqueous body and thereafter expressing sufficient liquid from the said mixture to reduce its moisture content to between about 10% and about 75% of the mixture.

2,595,182
ADJUSTABLE CARRIER FOR CONVEYER SYSTEMS
Morris R. Weingarten, Lancaster, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application October 7, 1948, Serial No. 53,341
10 Claims. (Cl. 198—131)

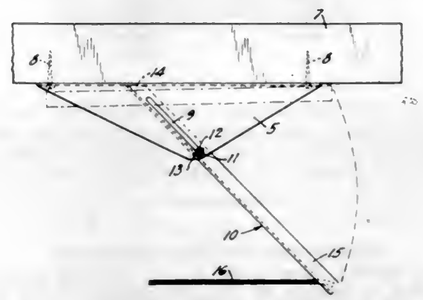


6. An object carrier for a conveyor comprising two members having at adjacent ends thereof two arms disposed in overlapping relation, the opposite ends of said members being spaced from each other to receive therebetween an object to be carried, and means for adjustably fixing said two arms with respect to each other to permit said spaced ends to accommodate differently sized objects, said means comprising a yoke having two passageways extending therethrough for receiving said two arms, said passageways having a plurality of recesses on one wall thereof, said arms having a plurality of recesses on one side thereof facing said one wall, and a rod-like member having transverse dimensions so as to fit between said one wall of said passageways and said one side of said arms when two opposed of said recesses are in registry.

2,595,183
COLLAPSIBLE LINE SUPPORT
Orville P. Wicks, Minneapolis, Minn.
Application May 4, 1950, Serial No. 159,885
2 Claims. (Cl. 211—119.17)

1. A collapsible line support comprising an elongated abutment member adapted to be secured to an overhanging member, a support bar adapted to have the line tautly connected thereto in one direction and having an abutment portion adjacent its normally upper end for abutting against said abutment member while said line support is in extended position and a guide element depending from said abutment member

and having a guide passage carried thereby, said guide passage extending upwardly and in the general direction in which said line extends relative to said support bar and terminating short of said abutment member a distance at least equal to one half the thickness of said support bar, said support bar being slidably and pivotally connected to said guide element by way of



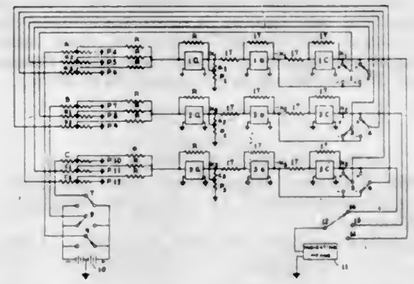
said guide passage whereby said support bar may be moved from depending position relative to said guide element to a substantially horizontal over-dead-center and collapsed position against said abutment member with said line remaining tautly connected thereto to provide an effective means for automatically retaining said support bar in collapsed position.

2,595,184
METHOD FOR CONSOLIDATING OR FOR PLUGGING SANDS
Gilbert G. Wrightsman, Houston, Tex., assignor, by mesne assignments, to Standard Oil Development Company, Elizabeth, N. J., a corporation of Delaware
No Drawing. Application October 31, 1946, Serial No. 707,027
7 Claims. (Cl. 61—36)

1. In a method for treating porous, earth-like formations to solidify the same, the improvement which includes the steps of forming a substantially non-viscous fluid consisting essentially of formaldehyde, unsubstituted hydroxy aromatic compound, and a strongly alkaline catalyst in a concentration within the range of about 2% to 10% by weight of the fluid, said fluid being an aqueous solution which remains homogeneous during reaction, introducing said non-viscous fluid into the formation to be solidified, and maintaining the fluid in said formation to form a resin therein.

2,595,185
APPARATUS FOR THE SOLUTION OF LINEAR SIMULTANEOUS EQUATIONS
Jerome Zauderer, New York, and Benjamin J. Aleck, Brooklyn, N. Y., assignors to The M. W. Kellogg Company, Jersey City, N. J., a corporation of Delaware
Application May 18, 1949, Serial No. 94,024
2 Claims. (Cl. 235—61)

1. An apparatus for solving linear simultaneous algebraic equations wherein the solutions of said equations as outputs of said apparatus and inputs to an indicating means is substantially concurrent with the application of the electrical equivalents representing the constant terms and the products of the coefficients and of their associated unknowns in said equations as inputs to said apparatus, comprising a plurality of networks, each network including a high gain, direct current voltage amplifier and sign changing means, and input means for each network comprising resistors and potentiometers adapted to operate on the output voltages of the other of said networks to provide voltages proportional to the products of the coefficients of said equations and of their associated unknowns as represented by said output voltages, degenerative feedback means, consisting of a resistor and a potentiometer, connecting the output of each high gain amplifier to its input, adapted to operate on said output to provide a feedback voltage representing the product of a coefficient and its associated unknown as represented by said output and having a polarity corresponding to the algebraic sign of said product, and means connected to each net-

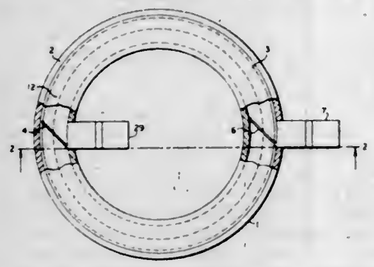


work through a resistance and a potentiometer, adapted to provide direct current voltages proportional to the magnitudes of the constant terms in said equations and with polarities corresponding to the algebraic signs thereof, the output of each high gain amplifier being supplied also to the input of the first one of said sign changing means in each network, said first sign changing means comprising a circuit having a unity gain amplifier with equal input and feedback resistors, the output of said first sign changing means also being applied to the input of a second sign changing means substantially identical to said first sign changing means, the output of each of said networks being applied to the input means of the remainder of said plurality of networks, and indicating means connected to the outputs of said plurality of networks.

2,595,186
JOGGED WAVE GUIDE RING TYPE RADIO-FREQUENCY ROTARY JOINT
Louis D. Breetz, Washington, D. C.
Application February 6, 1950, Serial No. 142,682
5 Claims. (Cl. 250—33.63)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A rotary coupler wherein high frequency energy is coupled from at least one input wave guide to at least one other relatively rotatable output wave guide comprising a first and second set of relatively movable, complementary wall members positioned in contiguous relation to form an annular wave guide cavity therebetween, an opening in each of said sets of wall members which is in communication with the chambers of said respective input and output wave guides, said wave guides being fixedly connected to the wall members adjacent respectively to one of said openings, a first and second set of interleaving, parallel, effective reflecting projections extending

into the annular chamber from an edge of the respective opening, said projections being oriented to direct energy from said input guide to said output guide through said annular cavity,



the portion of said projections adjacent their unattached end having a cross-sectional dimension along the circumference of said annular cavity substantially less than the same cross-sectional dimension of said respective opening.

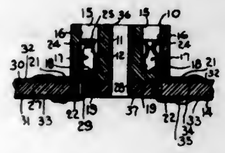
2,595,187
ADJUSTABLE DOOR SUPPORT
Martin Carlson, Brookfield, Ill., assignor, by mesne assignments, to George W. Houlsby, Jr., Chicago, Ill.,
Application June 23, 1948, Serial No. 34,632
6 Claims. (Cl. 16—129)



5. A door support of the character described comprising a spindle, a hinge arm carried on the spindle, means including a pin for connection to a door projecting into a slot in the arm in a position to one side of said spindle for adjustably associating the arm and door in such manner to rotatably support the door with respect to the spindle, an adjusting screw threaded in the arm and extending longitudinally into said slot and having its end engaging the said pin, and means effective between the said screw and the pin for locking the screw against accidental rotation.

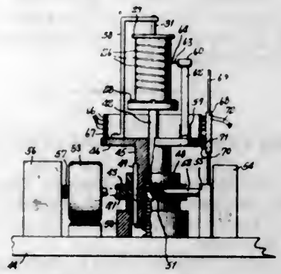
2,595,188
TUBE SOCKET
Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois
Application May 7, 1949, Serial No. 92,061
5 Claims. (Cl. 173—328)

3. In an electrical socket installation, in combination with a supporting panel provided with a series of contact-receiving apertures and having printed electrical circuit conductors on opposite sides thereof one end of which terminates adjacent said apertures; of a socket member adapted to be secured to said supporting panel and provided with a plurality of contact-receiving bores, adapted to be aligned with said contact-receiving panel apertures, each of said socket bores having a bottom wall provided with a restricted opening connecting said bores and contact-receiving panel apertures, a prong receiving contact member disposed in each of said bores and each provided with a tab extending longitudinally from one end thereof, said tab being of sufficient length



to be extended through said restricted bottom wall openings and said contact-receiving panel apertures and adapted for soldered connection with one of said printed panel circuit connectors.

2,595,189
RHEOSTAT POTENTIOMETER
Leon Dewan, New York, N. Y., assignor of one-third to Milton H. Feig, Brooklyn, N. Y., and one-third to Frederick E. Hettling, Queens, N. Y.
Application March 31, 1950, Serial No. 153,226
8 Claims. (Cl. 201—56)

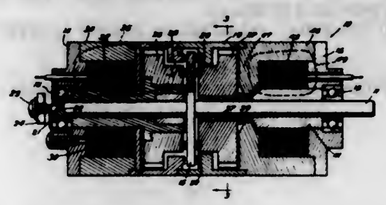


8. The method of producing an accurate rheostat consisting in forming an elongated resistance element, moving a contactor over said resistance element, deriving an electric current modulated according to the linear resistance inaccuracies of the resistance element, and controlling by means of the electric current a correcting means applied to the resistance element whereby the resistance inaccuracies are corrected in accordance with the modulation they impose upon said electric current.

2,595,190
CLUTCH AND BRAKE FOR A SERVO MECHANISM
Francis E. Edwards, Jr., Chicago, Ill., assignor to Buehler and Company, a corporation of Illinois
Application June 23, 1948, Serial No. 34,700
6 Claims. (Cl. 192—18)

1. In a servo mechanism, in combination, a rotatable shaft, a clutch disc of magnetic material fast on said shaft, a pair of gears rotatably mounted about said shaft on opposite sides of said disc and arranged to be driven in opposite directions, clutch rings secured to said gears and arranged to frictionally engage opposite faces of said clutch disc, a magnetic circuit including said clutch disc as a part thereof, the gear on the side of said clutch disc next to said magnetic circuit being formed of non-magnetic material, a solenoid for energizing said magnetic circuit to cause

one face of said disc to be placed in driving engagement with the clutch ring carried by said gear of non-magnetic material to rotate said shaft in one direction, an armature operatively



connected to the other of said gears, and a solenoid for energizing said armature to move the clutch ring carried by said other gear into driving engagement with the opposite face of said disc to rotate said shaft in the opposite direction.

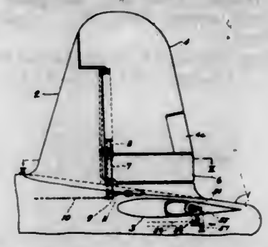
2,595,191
ARTIFICIAL LURE
Charles E. Erickson, Seattle, Wash., assignor to Tradewinds, Inc., Tacoma, Wash., a corporation of Washington
Application April 19, 1949, Serial No. 88,275
6 Claims. (Cl. 43—42.36)



1. The artificial lure comprising a simulated bait fish bowed transversely of its length in a plane substantially normal to its general body plane, said bait fish having two transverse bores through its sides at locations spaced apart lengthwise thereof, one of said bores being located generally in its head portion and one generally between its mid-portion and tail, and a generally longitudinal straight bore extending generally chordwise through the bowed body thereof generally between the ends of the two transverse bores at the outbowed side of the bait fish, a rigging line passed continuously through all three of said bores, and separate hooks slidably secured to said rigging line at the respective ends of the straight bore, the rgging line providing fish-line offset connecting means for the simulated bait fish at its inbowed side.

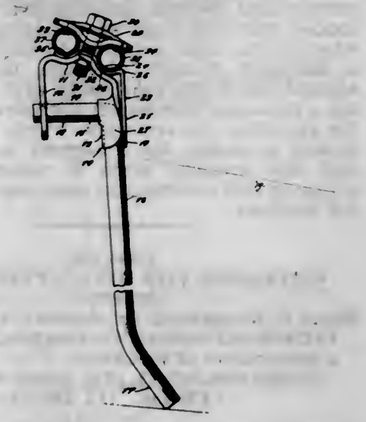
2,595,192
CONTROL SURFACE FOR AIRPLANES
Louis C. Garby, Akron, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware
Application November 23, 1945, Serial No. 630,191
4 Claims. (Cl. 244—87)

1. In an airplane a fuselage, supporting wings provided with flaps, a fixed vertical stabilizing fin adjacent the rear end of the fuselage, a main rudder having a trim tab, an auxiliary rudder positioned between the fuselage and the main rudder, the main rudder and the auxiliary rudder being hinged about substantially the same substantially vertical axis to the fin and movable independently of each other, and control means connecting said wing flaps with said auxiliary



rudder to deflect it, only when the wing flaps are down.

2,595,193
BICYCLE KICK STAND
Edward Haug, Little Falls, N. Y., assignor to H. P. Snyder Manufacturing Company, Inc., Little Falls, N. Y., a corporation of New York
Application January 26, 1950, Serial No. 140,624
2 Claims. (Cl. 280—301)



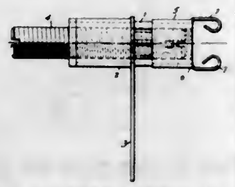
2. In a kick stand for a bicycle, the combination of a bracket comprising a mounting plate having inner and outer hangers depending therefrom, a support member for said bicycle comprising a rod outwardly curved at its lower end and having a shaft portion at right angles to the upper end thereof, said hangers being apertured to rotatably receive the said shaft, said outer hanger having a pair of troughs extending radially from its aperture, one of the troughs extending substantially horizontally, referred to the ground, and the other trough extending substantially vertically thereof, said rod adjacent the shaft thereof being disposable in one or other of said troughs, a spring supported on said plate and having a portion extending downwardly along said outer hanger, said spring substantially covering said plate and outer hanger and serving to maintain the support member in a forceably rotatable engagement with the said hangers, said plate and that portion of the spring supported thereon having contoured portions for engaging one side of a pair of tubular members of a bicycle frame, a second plate having contoured portions for engaging the other side of said tubular members, and means for holding said plates in engagement with the said tubular members, said contoured portion of the spring being clamped between the first-mentioned plate and the tubular members.

2,595,194

VARIABLE CONDENSER

Jerome D. Heibel, Erie, Pa., assignor to Erie Resistor Corporation, Erie, Pa., a corporation of Pennsylvania

Application March 18, 1950, Serial No. 150,469
1 Claim. (Cl. 175—41.5)



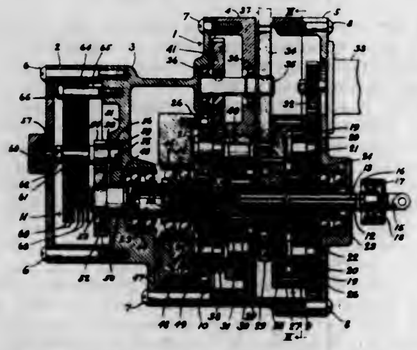
A trimmer condenser assembly comprising a dielectric tube, an outer electrode on one end of the tube, a screw in the tube having an end extending out said one end of the tube, the portion thereof lying within the projected area of the outer electrode serving as the inner electrode, a ferrule on the outside of the other end of the tube spaced from the outer electrode, arms projecting radially and axially outward from the ferrule and having portions thereof normally spaced apart less than the diameter of the screw whereby the arms are spread apart as the screw is threaded through the tube, and a support against which the tube abuts, said support having a clearance opening for the screw and notches for receiving the arms into which the arms are spread to anchor the condenser to the support, and said gripping arms in unspread position fitting in said notches and non-rotatably anchoring the tube.

2,595,195

GOVERNOR FOR HELICOPTER ROTOR BLADES

Harry L. Hosterman, Jr., Atwater, Ohio, assignor to Goodyear Aircraft Corporation, Akron, Ohio, a corporation of Delaware

Application July 29, 1949, Serial No. 107,446
7 Claims. (Cl. 264—9)



4. In combination in a governor of a power input, a differential having two inputs and one output and having one input connected to the power input, an adjustable constant speed motor connected to the other input of the differential, a second differential having two inputs and one output and having one input connected to the power input, a flywheel connected to the other input of the second differential, and a summing differential having two inputs and one output and having one input connected to the output of the first differential and its other input connected to the output of the second differential.

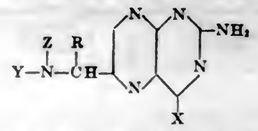
2,595,196

PTERINS AND PRODUCTION OF THE SAME

Martin E. Hultquist, Bound Brook, and James M. Smith, Jr., North Plainfield, N. J., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application March 5, 1948, Serial No. 13,344
8 Claims. (Cl. 260—251.5)

1. Compounds having the general formula



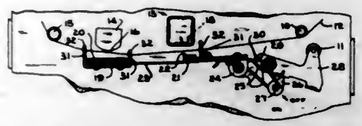
in which R is a lower alkyl radical, X is a member of the group consisting of hydroxyl, thiol and amino radicals, Y is a benzoyl radical and Z is a member of the group consisting of hydrogen and alkyl radicals.

2,595,197

SAFETY DEVICE FOR MAGNETIC RECORD ERASING

Herbert F. Kuhlow, Park Ridge, Ill., assignor to Ampro Corporation, Chicago, Ill., a corporation of Illinois

Application April 28, 1951, Serial No. 223,566
3 Claims. (Cl. 179—100.2)



1. In an instrument that is selectively convertible between a first condition for magnetically recording a signal on a traveling record body of magnetizable material, and a second condition for magnetically reproducing a signal from a varyingly magnetized traveling record body, and said instrument including a device having a record body-guiding surface and that is effective in the recording condition of the instrument to alter the condition of magnetization of a record body in contact with said surface, and an element that is movable between an advanced position to press a record body interposed between itself and said surface against the latter, and a retracted position spaced away from it; means for preventing, while said element is in its retracted position, unintended contact with said surface by a record body interposed between it and said element, comprising pullback means assembled with said element for engaging said record body during movement of said element to its retracted position and by moving with said element during such movement to withdraw the record body from contact with said surface.

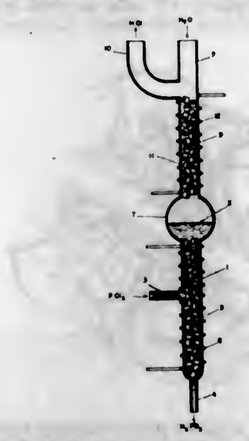
2,595,198

METHOD OF PREPARING PHOSPHOROUS ACID

John W. Lefforge and Robert B. Hudson, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Application September 25, 1948, Serial No. 51,194
9 Claims. (Cl. 23—165)

1. The method of continuously producing phosphorous acid, which comprises continuously supplying phosphorus trichloride and water, countercurrently to and in contact with each other, to a column reactor containing a vapor section and a liquid section consisting of a heel of at least 50% phosphorous acid and thereby continuously effecting substantially complete hydrolysis of said trichloride to phosphorous acid, and continuously withdrawing said phosphorous acid from said reactor, said reaction being carried out at a temperature at least equivalent to the boiling point of phosphorus trichloride but below that tempera-



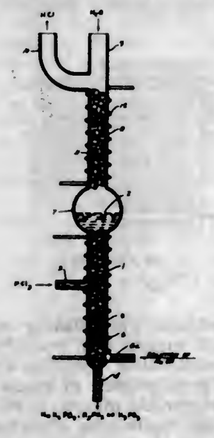
ture at which substantial decomposition of said trichloride into products other than phosphorous acid takes place, and said phosphorus trichloride being supplied to said reactor by way of said liquid section at a rate so correlated with the temperature and concentration of the phosphorous acid therein as to effect continuous hydrolysis in the liquid section of at least 66% but substantially less than 100% of the trichloride supplied thereto.

2,595,199

PHOSPHOROUS ACID SALTS AND METHOD OF PREPARING SAME

John W. Lefforge and Robert B. Hudson, Anniston, Ala., assignors to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

Original application September 25, 1948, Serial No. 51,194. Divided and this application April 12, 1951, Serial No. 220,583
7 Claims. (Cl. 23—165)



1. The method of continuously producing alkali metal phosphites, which comprises continuously introducing phosphorus trichloride into a heel of at least 50% phosphorous acid at a rate effecting hydrolysis of at least 66% but substantially less than 100% of said trichloride into liquid phosphorous acid and a volatilized product including unreacted phosphorus trichloride and hydrogen chloride, continuously contacting said volatilized product with water to substantially completely hydrolyze said unreacted phosphorus trichloride to phosphorous acid, continuously reacting said phosphorous acid with an alkali metal compound in the proportions required to yield the desired salt, said hydrolysis reaction being carried out at a temperature at least equivalent to the boiling point of phosphorus trichloride but below that temperature at which substantial decomposition of said trichloride into products other than phosphorous acid takes place.

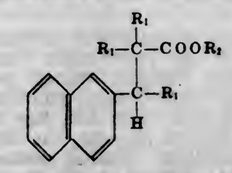
2,595,200

β-NAPHTHYL-(2)-β-ALKYL-α,α-DIALKYL-PROPIONIC ACIDS AND ESTERS THEREOF

Karl Miescher, Riehen, and Peter Wieland, Basel, Switzerland, assignors to Ciba Pharmaceutical Products, Inc., Summit, N. J.

No Drawing. Application July 6, 1949, Serial No. 103,326. In Switzerland July 30, 1948
3 Claims. (Cl. 260—469)

1. A compound selected from the group consisting of naphthyl-propionic acid and naphthyl-propionic acid esters of the formula



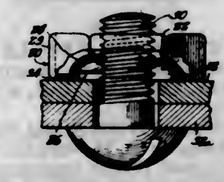
wherein R_1 stands for lower alkyl and R_2 stands for a member selected from the group consisting of hydrogen and lower alkyl, the said compound being estrogenically highly active.

2,595,201

SELF-LOCKING NUT

Charles E. Nagel, New York, N. Y., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois

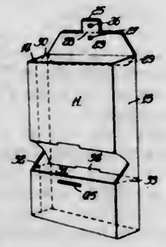
Application October 10, 1946, Serial No. 702,480
3 Claims. (Cl. 151—21)



1. A self-locking sheet metal nut comprising an outer radially extending base portion for clampingly engaging a work surface, a central abrupt extrusion presenting an annular wall projecting laterally of the base and terminating at its outer extremity in an annular section extending radially inwardly, said annular section having a central aperture defined by a helical screw accommodating margin, the annular wall in the vicinity of the base having a severance of circumferentially limited extent lying in a plane perpendicular to the nut axis, said circumferential severance communicating with a second severance substantially traversing said wall and annular section whereby to permit outward radial flexing of the

severed portion of said extrusion as an incident to the application of a complementary screw member to the aforesaid helical margin, said circumferentially extending severance separating the wall from the plane of the adjacent surface of the base portion sufficiently to insure overlapping of said severed portion of the wall and base when a complementary screw member is associated with said helical margin.

2,595,202
CONTAINER
Edward A. Pardee, Mount Vernon, Ohio, assignor to Shellmar Products Corporation, Chicago, Ill., a corporation of Delaware
Application October 23, 1946, Serial No. 705,063
1 Claim. (Cl. 229—17)



In a shipping and dispensing container formed from a blank of cut paperboard material having crease lines defining panels secured together to provide when erected collapsible upright front, back and side walls and top and bottom wall members hinged thereto, the improvement comprising a partition forming section cut from an intermediate portion of the front and side walls and folded toward the back wall when the container is erected, said partition being hingedly connected to the front wall along a hinge line extending transversely thereof and to the side walls along hinge lines extending diagonally thereof and dividing the container into upper and lower article receiving compartments, the upper compartment including a downwardly facing dispensing opening defined by said cut section and the lower compartment being closed at the bottom and having an aperture in an upright wall thereof to receive the articles.

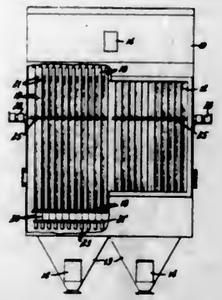
2,595,203
MULTIPLE EXPANSIBLE PULLEY UNIT
Paul B. Reeves, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application May 19, 1949, Serial No. 94,094
6 Claims. (Cl. 74—230.17)

1. A variable-speed power transmission device comprising a trunnion element, a first hub coaxially supported from said trunnion element for rotation about the axis thereof, a second hub coaxially supported from said trunnion element and axially spaced from said first hub for rotation about said axis, said hubs being restrained against axial separation, a first sheet-metal annulus having a tubular flange at its inner periphery fixedly sleeved on said first hub and projecting out of the general plane of said annulus in a direction away from said second hub, a first coned sheet-metal annulus located wholly on that side of said first annulus adjacent said second hub, having its outer periphery clinched to the outer periphery of said first annulus, and having its inner periphery adjacent said trunnion element, a second sheet metal annulus having a tubular flange at its inner periphery fixedly sleeved on said second hub and projecting out of the general plane of said second annulus in a direction away from said first hub, a second coned sheet metal annulus located wholly on that side of said second annulus adjacent said first hub, having its outer periphery clinched to the outer periphery of said second annulus, and having its inner periphery adjacent said



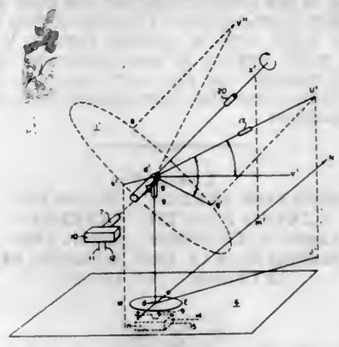
trunnion element, a third hub coaxially supported from said trunnion element intermediate said first and second hubs for rotation and axial reciprocation relative to said axis, a third coned sheet metal annulus having its inner periphery fixedly secured to said third hub adjacent said first coned sheet metal annulus and cooperating therewith to define a V-pulley, and a fourth coned sheet metal annulus having its inner periphery fixedly secured to said third hub adjacent said second coned sheet-metal annulus and cooperating therewith to define a V-pulley.

2,595,204
ELECTRICAL PRECIPITATION
Harry L. Richardson, Prospect Park, Pa., assignor to Research Corporation, New York, N. Y., a corporation of New York
Application November 25, 1949, Serial No. 129,340
3 Claims. (Cl. 183—7)



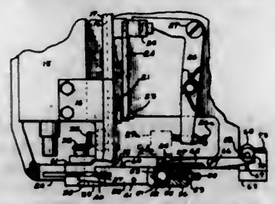
1. In an electrical precipitator including discharge electrode means and complementary extended surface collecting electrode structures suspended in the precipitator in spaced relation to the discharge electrode means, a vibrator rigidly connected to the collecting electrode structure effective to vibrate the collecting electrode structure at a controlled intensity equivalent to an effective acceleration substantially less than g.

2,595,205
DEVICE FOR AUTOMATICALLLY TRACKING HEAVENLY BODIES
James Edwin Sees, Washington, D. C.
Application May 26, 1950, Serial No. 164,581
14 Claims. (Cl. 318—19)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



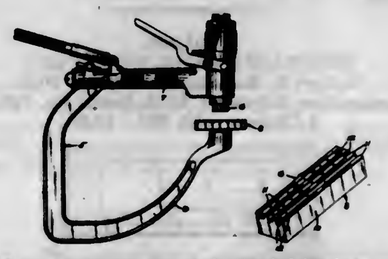
7. Apparatus for causing a device located at a given position on the earth to follow a heavenly body whose motion relative to the earth is known by data of hour angle and declination comprising a first rotatable shaft whose axis passes through a given point, a second rotatable shaft whose axis passes through said given point and which makes an angle with the axis of said first rotatable shaft equal to the latitude angle of said position on the earth, a third rotatable shaft whose axis is at right angles to the axis of said second shaft and also passes through said given point, means for interconnecting said second and third shafts so that the said third shaft will pivot about the axis of said second shaft as said second shaft is rotated, a second means connected to said first rotatable shaft for rotation therewith, a portion of said second means being moveable relative to said given point so that a point located on said portion will be moveable in a plane in which the axis of the said first rotatable shaft lies, pointing means rigidly coupled to the said third rotatable shaft and extending along a line containing the last named point and the said given point, a third means for connecting said pointing means and said portion so that said pointing means is always in contact with said last named point, a fourth means connected to said first shaft for rotating same in a sense opposite to that of earth's rotation about the axis and at an angular rate proportional to the change of hour angle of said heavenly body, and a fifth means coupled to said second means for causing the angle between said last mentioned line and a plane perpendicular to said first rotatable shaft to be equal to and vary with the declination of said heavenly body, a fourth rotatable shaft whose axis is along a vertical line, a fifth rotatable shaft whose axis is along a horizontal line, a sixth means for interconnecting said fourth and fifth shaft so that they pass through the same point and so that the fifth rotatable shaft can pivot in a horizontal plane about the axis of the fourth rotatable shaft and rotate therewith, said device for following said heavenly body being rigidly connected to said fifth rotatable shaft, follow up means connected respectively between said third and fifth, and said second and fourth rotatable shafts whereby the said device in causes to follow said pointing means and thus follow the said heavenly body.

2,595,206
SELECTIVE ORIENTING BUTTON POSITIONING MACHINE
Frederick W. Troske, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application May 11, 1951, Serial No. 225,723
8 Claims. (Cl. 218—6)



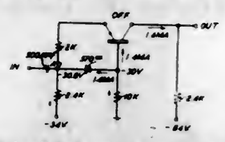
1. In a button positioning mechanism for buttons or the like having engagement means thereon, means adapted to periodically receive and support a button for rotation about its axis, means for rotating the button about its axis while in said receiving means, a movable member having mounted thereon a plurality of locating members each adapted selectively to engage the engagement means on the button during rotation thereof to stop rotation of the button in any one of a number of predetermined oriented positions, the combination of a single selector member rotatably mounted on said movable member, means on said selector member controlling the operative and inoperative positions of the locating members, and a control member mounted in the path of said selector member and having means cooperating therewith to index said selector member upon one directional movement of said movable member.

2,595,207
HAMMER MECHANISM FOR USE IN STRAIGHTENING AUTOMOBILE BODIES AND FENDERS
Eugene Uberti, Medford, Mass.; Pasquale Uberti, administrator of said Eugene Uberti, deceased, assignor to Pasquale Uberti, Malden, Mass.
Application March 26, 1947, Serial No. 737,334
2 Claims. (Cl. 153—32)



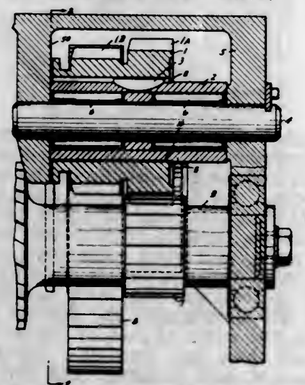
1. Fender or like metal straightening equipment comprising a pair of interconnected arms spaced to receive between them the metal to be straightened, an air operated hammer carried by one of said arms and having a flat work engaging surface, and an anvil carried by the other of said arms, said anvil comprising a block including on its upper surface, a plurality of spaced, parallel projections, the work contacting surfaces of which establish the desired contour of the anvil, the width of each of which is substantially less than the maximum cross sectional dimension of said hammer and the length of which is substantially greater than said dimension.

2,595,208
TRANSISTOR PULSE DIVIDER
John T. Bangert, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1950, Serial No. 203,307
9 Claims. (Cl. 171—97)



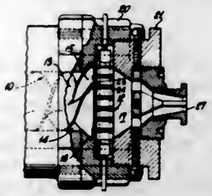
3. An electrical trigger circuit which comprises a transistor having a semiconductive body and a base electrode, an emitter electrode and a collector electrode in operative contact with said body, said transistor being characterized by a ratio of short circuit collector current to emitter current which substantially exceeds unity for electrode current-voltage conditions within a preassigned range, an external network interconnecting said electrodes and including a potential source for establishing current-voltage conditions within said range, said network comprising a current path by way of which current is regeneratively fed back from the collector to the emitter in amount sufficient to give rise to a variation of resistance characteristic which is negative within said range and positive outside of said range, said network also including a positive impedance whose characteristic intersects said variation of resistance characteristic at three points, of which the outer ones represent stable domains of operation while the inner one represents an unstable domain of operation, a steering network including a variational resistance element for translating a sequence of impulses of the same polarity to a sequence of impulses of opposite polarity, said steering network being connected between said base and emitter electrodes, and means for applying a sequence of impulses of the same polarity to said steering network thereby driving said trigger circuit from one of its stable domains toward said unstable domain, whereby its operation is caused to snap from one of said stable domains to the other in response to a sequence of impulses of the same polarity.

2,595,209
SHIFTABLE GEAR MOUNTING
Robert R. Burkhalter, Toledo, Ohio
Application October 4, 1946, Serial No. 701,114
2 Claims. (Cl. 287—52.05)



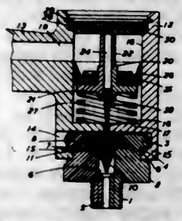
1. A power transmission mechanism including a housing, an auxiliary shaft mounted in the housing, a sleeve rotatably mounted on the shaft, a gear slidably carried by the sleeve and keyed thereto to rotate therewith, the gear when in one position on the sleeve adapted to be in driving connection with another gear in the housing, the sleeve having one part of slightly smaller diameter than the other part thus providing a shoulder at the point of change from the smaller diameter to the larger diameter, the gear being on the smaller diameter part when in driving connection and when load is applied thereto is moved radially with respect to said sleeve so that the gear will engage the shoulder and will be prevented from becoming disengaged from its driving connection.

2,595,210
MACHINE FOR FEEDING, WORKING, AND MIXING PLASTIC MATERIAL
James C. Clinefelter, Akron, Ohio
Application June 11, 1949, Serial No. 98,612
12 Claims. (Cl. 18—2)



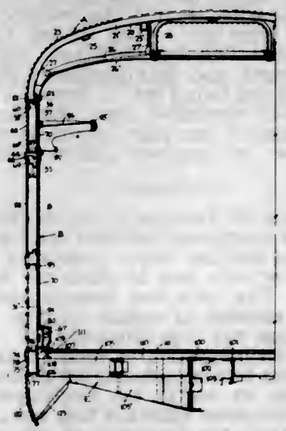
1. An impeller for continuously receiving plastic material from a feed screw, forcing it through a perforated partition and cutting it at said partition, said impeller comprising a hub tapering toward its delivery end and a blade integral with said tapered hub, said blade at its inner end being of helical shape corresponding to that of a feed screw thread and at its outer end being in the shape of a radial cutting edge extending substantially from the axis of the impeller to the periphery thereof, the inner end of the blade, the tapered hub and the outer end of the blade merging mutually into one another with streamline continuity and forming an uninterrupted helical material advancing pressure surface increasing progressively in area toward the delivery end of the impeller.

2,595,211
VALVED LUBRICATION NOZZLE
Camille Clare Sprankling Le Clair, London, England, assignor to Tecalemit Limited, Brentford, England, a corporation of Great Britain
Application February 12, 1947, Serial No. 728,083
In Great Britain February 20, 1946
4 Claims. (Cl. 284—17)



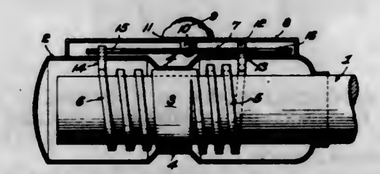
1. A nozzle for making detachable fluid tight connection with a headed fluid receiving fitting having a deformable fluid receiving passageway therein, comprising in combination a tubular cylinder forming body member having an apertured contact surface at one end and adapted for cooperative engagement with a fitting, said body member having a wall at its other end transverse to the longitudinal axis of said body member, means adapted to engage the head of a fitting for detachably connecting said nozzle to the fitting head to hold said contact surface in firm abutting engagement against the fitting, a hollow injector nozzle having an inlet opening at one end and having a needle-like tip at its other end aligned with and of less external diameter than the aperture in said contact surface, a piston slidable in said body member and connected to said injector nozzle for moving the latter, means biasing said injector nozzle to a position wherein said injector inlet opening contacts and is closed by said wall, and an inlet to said tubular body member at said other end and adapted to be connected to a source of fluid under pressure for supplying fluid for moving said piston and said injector nozzle against said biasing means to projected position and cause said needle-like tip to project through said aperture and make a fluid tight seal with the fitting passageway for the discharge of fluid into a fitting.

2,595,212
VEHICLE BODY, ESPECIALLY FOR RAIL CARS
Joseph Ledwinka, Philadelphia, and George Trautvetter, Jenkintown, Pa., assignors to The Budd Company, a corporation of Pennsylvania
Application January 15, 1945, Serial No. 572,774
10 Claims. (Cl. 105—397)



1. In a vehicle body, such as a railway passenger car body, having side walls with window openings and a roof, a skeleton framework of horizontally, longitudinally extending chord structures vertically spaced from each other and of vertical posts and carlines horizontally spaced respectively from each other; inner side wall panellings integrally and permanently secured to the inner sides of said structures and posts for forming main structural stress-transmitting members of said walls which also diagonally brace said structures and posts; an outer panelling removably attached such as by screws to the outsides of said side wall framework, so as to constitute a mere trim cover, and, at least in large part, coextensive with said inner panel; and above the window openings the side walls and the roof having outer panellings integrally and permanently secured to said chord structures, posts, and carlines.

2,595,213
RATCHET MECHANISM
Gilbert E. Raynor, United States Air Force
Application January 22, 1951, Serial No. 207,221
12 Claims. (Cl. 74—164)

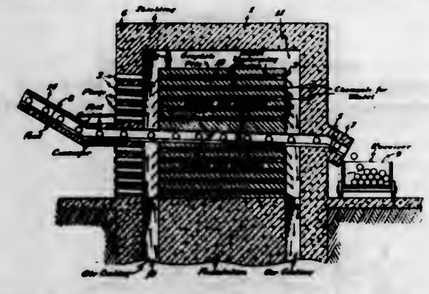


1. The combination of a driven member to be rotated in opposite directions, a tubular handle rotatably embracing the driven member, and a clutch member within the handle comprising a centrally disposed band surrounding the driven member and fixed to said handle, said band being provided at opposite ends with integral similarly wound spring coils surrounding the driven member, each set of coils being under tension tending to force said coils into frictional engagement with the driven member, and a slide mounted on the handle and having means in cooperative relation with the respective coils to selectively hold either set of coils out of frictional engagement with said driven member, and permit said other coils to contract and frictionally engage the said driven member.

ABSTRACTS OF APPLICATIONS

Published at the request of the applicant or owner in accordance with Notice of January 25, 1949, 619 O. G. 258. The abstracts are identified by serial number of the applications and arranged in chronological order. The heading of each abstract of application published herein indicates the number of pages of specification, including claims, and sheets of drawings contained in the application as originally filed. The files of these applications are available to the public for inspection and photostat copies of them, or any part thereof, may be purchased for 20 cents a sheet.

552,558. PRESERVATION OF FOODSTUFFS. Lyle B. Borst, Oak Ridge., Tenn. Filed Sept. 2, 1944. Published Apr. 29, 1952. Class 99—217. 1 sheet of drawings. 11 pages of specification.



This application relates to a method of preserving foodstuffs by irradiations resulting directly or indirectly from a chain reaction of neutron induced fissions.

In the form of the disclosure illustrated in the drawing, food is preserved by subjecting it to the irradiations present in or about a nuclear fission chain reactor. A conventional air cooled, graphite moderated, natural uranium reactor 1 is provided with a chute or conveyor 5 which passes through the reactor. The food to be preserved is placed in containers, and the containers are moved through the reactor by conveyor 5 on a continuous process basis.

In another form of the discolsure, radioactive material, such as the short lived fission products which are produced in a nuclear fission chain reaction, is permanently incorporated in the food to be preserved, and the food is then stored until the radioactivity of the radioactive material has substantially completely decayed.

619,264. TREATMENT OF ALUMINUM. Natasha Goldowski, Princeton, N. J. Filed Sept. 28, 1945. Published Apr. 29, 1952. Class 148—6.27. No drawing. 6 pages of specification.

Aluminum metal and aluminum alloys are provided with a corrosion-resistant film by subjecting them to the action of liquid water at superatmospheric pressure and a temperature above 100° C., preferably above 150° C. This treatment has to be carried out for at least 10 to 20 hours.

The presence of an oxidizing agent, such as dissolved or dispersed oxygen, chromic acid, alkali metal, persulfates or perborates, is advantageous.

Film formation is expedited by the addition of an electrolyte, such as a chloride, nitrate, sulfate, phosphate, borate, or oxalate.

The pH value of the treating liquid should be below 8, but not lower than 3.

In the case of extruded aluminum and certain other types of aluminum containing additional metals, the addition of a substance which inhibits corrosion during the film formation treatment was found necessary. Suitable corrosion inhibitors are silica (in a concentration of from 5 to 20 p. p. m.) and/or phosphoric acid, sulfuric acid or chromic acid in a concentration ranging from 5 to 100 p. p. m. If silica is incorporated in the form of sodium silicate, the addition of an acid, e. g. boric acid, sulfuric acid, chromic acid, or phosphoric acid, is advisable to obtain a pH value of below 8, preferably between 6 and 7.

The aluminum is preferably cleaned prior to the treatment for film formation, e. g. by etching with sodium hydroxide followed by rinsing with mineral acid and then with water.

Example 1

Sheets of 2S aluminum were etched briefly in a solution containing about 5 per cent NaOH and thereafter were dipped in 25 per cent nitric acid and then washed with water. The aluminum sheet so obtained was substantially free from surface oxide. This sheet was immersed in a pool of distilled water in an aluminum lined bomb. The water filled the bomb to approximately ¾ capacity leaving the remainder of the bomb filled with air. After closing the bomb, it was heated to 200° C. for 20 hours. Upon opening of the bomb and examination of the aluminum sheet it was found that a corrosion resistant film had been developed upon the sheet. The film so produced has high electrical resistance generally over 10^6 ohms per cubic centimeter.

Example 3

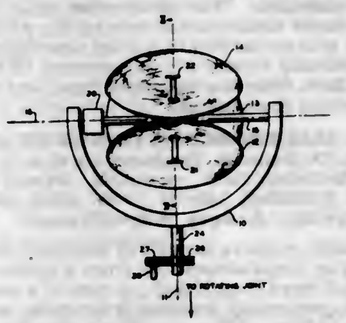
The process of Example 1 was repeated using extruded 2S aluminum bar and conducting the treatment in distilled water containing 20 parts per million of SiO_2 and 10 parts per million of boric acid. The SiO_2 was incorporated in the solution by addition of sodium silicate. The pH of the solution was approximately 6.5. Whereas substantial disintegration of such extruded bars tends to occur with no silica or boric acid present it was found by use of the electrolyte of this example a corrosion resistant film was produced and no appreciable corrosion of the bar took place.

637,423. PARABOLOID SPINNER. Lester C. Van Atta, Winchester, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Filed Dec. 27, 1945. Published Apr. 29, 1952. Class 250—33.65. 1 sheet of drawings. 5 pages of specification.

This disclosure relates to a high frequency antenna system for rapidly scanning a solid angle in space.

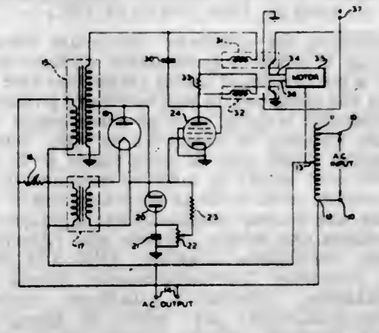
Referring to the drawing, the system comprises three paraboloidal reflectors 12, 13 and 14 symmetrically mounted about horizontal shaft 16 and arranged to be spun about horizontal axis 15 by motor 20. Shaft 16 is journaled in a U-shaped yoke 10 which, in turn, is supported on a vertically disposed shaft 24. Suitable driving means are coupled to shaft 24 through shaft 28 and gears 26 and 27 for rotating the antenna assembly about vertical axis 11 at a slow rate

relative to the spin frequency about horizontal axis 15. Radio frequency energy is coupled to the antenna by a coaxial line extending from a transmitter (not shown) through a rotating joint, through hollow shaft 24, hollow yoke 10, and hollow shaft 16 to a coaxial switch positioned on shaft 16 behind the reflectors. The antenna feeds, two of which are shown at 21 and 22, are connected to the coaxial switch by suitable coaxial lines. The switch is arranged to couple energy to only one of the reflectors at a time,



each reflector being illuminated as it passes through a desired 120° sector in elevation. Thus, by rapidly spinning the reflectors about a horizontal axis while simultaneously rotating the assembly about a vertical axis, a solid angle having a vertical angular dimension of 120° and an azimuthal dimension of 360° may be scanned. The principal difference between the disclosed antenna and prior art antenna systems is that sector scanning is accomplished by a continuously rotatable system, whereas prior art sector scanning systems are generally oscillatory in nature.

644,974. VOLTAGE REGULATOR. Robert L. Sinsheimer, Cambridge, Mass., assignor, by mesne assignments, to the United States of America as represented by the Secretary of the Navy. Filed Feb. 1, 1946. Published Apr. 29, 1952. Class 323—47. 1 sheet of drawings. 6 pages of specification.

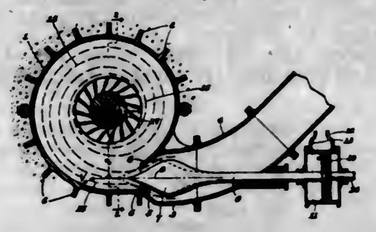


This disclosure relates to voltage regulators of the electronic tube type for maintaining constant the output voltage of an alternating current circuit despite wide variations in amplitude, wave form, or frequency of the input voltage.

Referring to the drawing, the unregulated alternating voltage is applied to terminals 10, 10 of auto-transformer 11, the regulated voltage being obtained at terminals 14 which are connected between terminal 12 and sliding contact 13 of the auto-transformer 11. The control circuit, which will now be described, is responsive to changes in the voltage across terminals 14 to drive motor 35 by the correct amount and in the proper direction to position movable tap 13 to maintain the desired output voltage. The circuit includes a two-element tube 18 so biased as to operate under conditions of temperature limited emission, in which condition, the current therethrough is an exponential function of the applied filament voltage. The voltage appearing at the output terminals is coupled to the filament of tube 18 through transformer 17, potentiometer 16 being provided to adjust the proper range of operation of the diode. The diode current is passed through resistor 23, developing a voltage thereacross proportional to changes in the voltage at terminal 14. This voltage is coupled to the grid of amplifier 24, which in turn controls the operation of motor-controlling relays 31 and 32. Diode 20 with its associated load resistor 22 and condenser 21 provides a bias voltage for tube 24.

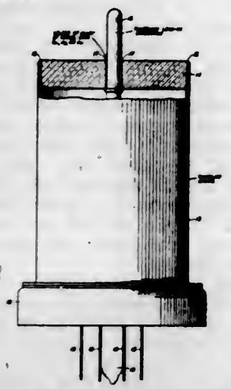
In operation, with the desired voltage at terminal 14, the bias of tube 24 is adjusted so that relay 31 is closed and relay 32 is open. If the voltage at terminal 14 increases, the current through tube 18 increases, resulting in increased current through tube 24. The increased current through tube 24 closes relay 32 causing motor 35 to move slider 13 of auto-transformer 11 in a direction to reduce the voltage at terminal 14. When the proper voltage is reached, relay 32 opens and the motor is stopped. Conversely, when the output voltage tends to fall below the desired value, the current through tube 18 decreases resulting in decreased current through tube 24 and causing relay 31 to open. Under this condition, motor 35 operates slider 13 in the opposite direction to raise the output voltage. The output voltage is thus maintained substantially constant, the control action being afforded by the effect of voltage changes upon the filament of tube 18.

722,677. ROTARY HYDRAULIC MACHINE. Lewis F. Moody, Princeton, N. J., assignor to Baldwin-Lima-Hamilton Corporation, a corporation of Pennsylvania. Filed Jan. 17, 1947. Published Apr. 29, 1952. Class 253—124. 2 sheets of drawings. 7 pages of specification.



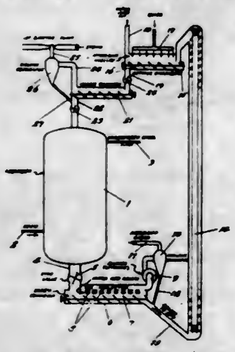
The figure is a sectional view of a hydraulic turbine taken in a plane normal to the turbine axis. The turbine consists of a volute casing 1 having an inlet passage 4 and a usual coaxial space 15 in which a turbine runner 16 is disposed preferably of the Francis type. The inlet 4 terminates in a cylindrical nozzle opening 6 which is arranged so as to coincide around the whole portion of its opening with the cylindrical portion 6 of the volute casing whereby a circular jet of water discharging through the nozzle opening 6 will enter the volute casing 1 substantially tangential thereto. The orifice 6 is controlled by a needle nozzle 7 which is moved by a piston and cylinder servo-motor 10, 11 to vary the flow through the nozzle.

725,353. **BONDED TANTALUM BODIES.** Arnold W. Treptow, Plainfield, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York. Filed Jan. 30, 1947. Published Apr. 29, 1952. Class 189—36.5. 1 sheet of drawings. 10 pages of specification.



A high melting and shock resistant hermetic bond is formed between tantalum and a ceramic or other material usable in electron emitting devices. Where one of the materials is ceramic, the surface of such material is first metallized by applying a conventional metal paste mixture comprising a molybdenum powder containing a small amount of iron powder suspended in an easily evaporated vehicle. The vehicle is then evaporated by heating the material in a non-oxidizing atmosphere at a sufficient temperature to fire the metallic particles to the ceramic surface. An alloy of nickel and a metal selected from the group consisting of copper, silver and gold is then placed between the two bodies to be bonded. The nickel content of this alloy may range from about 13 per cent to about 84 per cent. Heating this assembly to the melting point of the alloy of the combination results in a bond which is high melting, gas-tight and shock resistant.

785,180. **DESORPTION SYSTEM AND METHOD.** Sam Perry Robinson, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware. Filed Nov. 10, 1947. Published Apr. 29, 1952. Class 183—4.5. 1 sheet of drawings. 10 pages of specification.



Rich active adsorbent, such as charcoal, which has been spent in the adsorption of gases from mixtures, in particular hydrocarbon mixtures, is regenerated by exposing the spent adsorbent in a moving bed to infra red radiation, in a continuous process by conveying the regenerated adsorbent to a cooling chamber and thence back to the adsorbing chamber.

Referring to the diagram, feed gas to be separated is passed into the adsorber at 2, and free unadsorbed gases are removed at 3. Spent adsorbent is removed from the chamber 1, at a rate regulated by star valve 5, and moved by screw conveyor 7 through a zone where it is exposed to infra red radiation. It is then carried by a lift to a wetting chamber and then to a vacuum chamber for drying and finally back to the adsorbing chamber. The desorption zone, which has the screw conveyor for moving the adsorbent through it is connected to a dust separating system, including blower 11, a separator 10 for removing fines from the desorbed gases and means for collecting desorbed gas.

791,465. **ELECTRODEPOSITION OF URANIUM.** Ermon D. Eastman, deceased, by Ann G. Eastman, Berkeley, Calif., executrix. Filed Dec. 12, 1947. Published Apr. 29, 1952. Class 204—64. No drawing. 6 pages of specification.

A smooth, massive deposit of uranium metal is obtained by electrodeposition from a molten mixture of not more than 20 mol per cent of a uranium trihalide, preferably uranium tribromide, and one or more halides of the alkali and alkaline earth metals. Electrolysis is conducted at 500° C. to 800° C., in an inert atmosphere (such as helium) or in vacuo. The cathode may be of iron, tantalum, molybdenum, copper, graphite, or uranium. The anode may be a soluble metal such as an alkaline earth metal, or uranium; or it may be insoluble, such as tungsten. The electrodeposition is carried out at voltages as low as 0.01 volt with a soluble anode, and as high as 30 volts with an insoluble anode. The current density may be about 0.01 to 50 amperes per square centimeter.

48,543. **POLYMERIC PLASTICIZING COMPOSITIONS.** William C. Mast, Philadelphia, and Charles H. Fisher, Abington, Pa., assignors to the United States of America as represented by the Secretary of Agriculture. Filed Sept. 10, 1948. Published Apr. 29, 1952. Class 260—45.5. No drawing. 14 pages of specification.

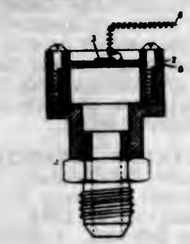
(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)

Plasticizers for synthetic resins are made by dissolving a liquid polymerizable olefinic monomer in a conventional liquid plasticizer and then causing the monomer to polymerize to a relatively low molecular weight, such as corresponds to an intrinsic viscosity of about 0.5 or less. Suitable monomers, which may be used singly or in combination are: esters of acrylic, methacrylic and chloroacrylic acids, such as ethyl acrylate, n-amyl acrylate, and n-decyl methacrylate; acrylonitrile; vinyl ethers and esters; styrene and chlorinated styrenes; vinylidene chloride; allyl and diallyl esters; 1-butene; 2-chloropropene; dienes such as butadiene, dimethyl butadiene, isoprene. Suitable plasticizers are: esters of phosphoric, phthalic, succinic, sebacic, adipic, citric or tartaric acids and esters of glycols or other polyhydroxy compounds; specific examples being dioctyl phthalate, alone or mixed with a sebacate polyester; triethylene glycol di-2-ethylbutyrate; polyethylene glycol di-ethylhexoate; butoxyethyl diglycol carbonate; and tertiary 2-ethyl hexyl phosphate. The polymerization may be carried out by heat, light, peroxide catalyst, or redox system. The resins to be plasticized may be polyvinyl chloride or a copolymer of vinyl chloride and vinyl acetate, styrene polymers, or GR-S.

The resin and the new plasticizer may be combined by mixing, with or without a common solvent; or they may be combined by mixing the monomer, liquid plasticizer, resin and volatile solvent, polymerizing the mixture, and then evaporating the solvent.

Example.—A mixture of 50 parts ethyl acrylate, 150 parts dioctyl phthalate and 0.25 part benzoyl peroxide was heated at 100°–111° C. for 7 minutes to form a slurry, of specific gravity 1.015, of finely dispersed polymer suspended and dissolved in the liquid. This was milled into a copolymer of 95% vinyl chloride and 5% vinyl acetate, according to the following formulation: copolymer 63.5 parts, basic lead carbonate 1.0 part, stearic acid 0.5 part, plasticizer 35.0 parts.

59,091. **PRESSURE GAUGE.** Dominick J. De Micheal, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Nov. 9, 1948. Published Apr. 29, 1952. Class 171—327. 1 sheet of drawings. 4 pages of specification.

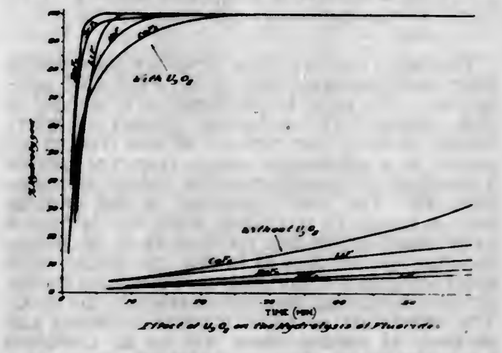


A pressure measuring instrument that includes a pressure-responsive diaphragm 2, means enclosing said pressure-responsive diaphragm for operatively connecting one side thereof to an area the pressure of which is to be measured, a thin piezoelectric crystal 3 having two relatively large parallel opposite faces, the thickness of said crystal being in the order of one-fifth the thickness of said diaphragm, electrodes in contact with and substantially covering the large faces of the crystal, means rigidly attaching one large face of the crystal to the center of the remaining side of said diaphragm so that the large faces of the crystal are parallel to the diaphragm, the other large face of the crystal being free to move without substantial restraint, whereby flexure of the diaphragm mechanically deforms the crystal in a direction parallel to its large faces, and results in the production of an electric signal indicative of the pressure acting on said diaphragm, and instrument means operatively connected to said electrodes for deriving a perceptible indication of the value of said electrical signal.

63,854. **DECHLORINATION OF 2,3,3,4-TETRACHLORO-1-BUTENE AND PRODUCTION OF 2,3-DICHLORO-1,3-BUTADIENE.** Robert M. Thomas, St. Louis, Mich., assignor to The Firestone Tire and Rubber Company, Akron, Ohio, a corporation of Ohio. Filed Dec. 6, 1948. Published Apr. 29, 1952. Class 260—655. No drawing. 3 pages of specification.

This application relates to the dechlorination of 2,3,3,4-tetrachloro-1-butene with zinc metal at temperatures in the range 60°–125° C. The reaction is preferably carried out by refluxing the 2,3,3,4-tetrachloro-1-butene with zinc powder, in the presence of an inert solvent such as methanol, ethanol, propanol, propylene glycol, ethyl acetate, diisopropyl ketone, glacial acetic acid, or the like. In accordance with a specific example, 47 parts of powdered zinc in about twice its weight of methanol are placed in a vessel provided with agitating means and a packed reflux column. The vessel provided with means for adding a liquid from time to time. 29.5 parts of 2,3,3,4-tetrachloro-1-butene in an equal weight of methanol is added in increments to the vessel at such a rate that the temperature does not rise above 125° C. during the exothermic reaction which occurs. The reaction is completed when the evolution of heat ceases. The vessel is heated to distill over the methanol azeotrope of the 2,3-dichloro-1,3-butadiene which has been formed. It is desirable to add a small amount of a polymerization inhibitor to the receiver for the dichlorobutadiene before starting the distillation. Phenyl-beta-naphthylamine in an amount equal to one per cent of the weight of the tetrachlorobutene will be satisfactory. Water is added to the distillate to separate the methanol and the oily layer of 2,3-dichloro-1,3-butadiene. The yield approaches quantitative.

79,701. **METHOD OF HYDROLYSIS OF LIGHT METAL HALIDES.** James C. Warf, Los Angeles, Calif., assignor to the United States of America as represented by the United States Atomic Energy Commission. Filed Mar. 4, 1949. Published Apr. 29, 1952. Class 23—14.5. 2 sheets of drawings. 11 pages of specification.



Effect of U_3O_8 on the hydrolysis of fluorides.

Quantitative yields of hydrogen halides are rapidly obtained from single or double halides of either alkali metals or alkali earth metals by reacting mixtures containing said metal halide and an oxide of an amphoteric metal such as uranium, aluminum, chromium, or vanadium, or the like, with superheated steam flowing rapidly at a rate of about 0.8 g./min./cm.² of cross section of the reaction vessel. The reaction is initiated at temperatures between 100° and 300° C. and said temperature is thereafter gradually raised to about 1000° C. for fluorides and chlorides; with bromides and iodides the temperature is not raised above about 600° or 700° C. to form the hydrogen halide because of a tendency of hydrogen bromide and iodide to air-oxidize or thermally decompose to some extent, even at temperatures as low as 250° C.

A set of equations representing a typical reaction is:

$$H_2O + NaF \rightarrow NaOH + HF$$
$$2NaOH + U_3O_8 \rightarrow Na_2U_2O_7 + H_2O + UO_2$$

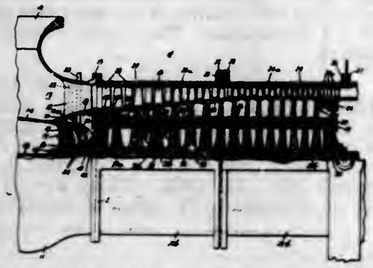
Example

Sufficient metal halide, fluoride or chloride, to provide 75 milligrams of fluorine or chlorine were ground and mixed with 2 to 5 times the equivalent weight of U_3O_8 and placed in a platinum tube which was 150 mm. long and 20 mm. in diameter, open at one end, closed at the other end by a platinum disk, and fitted in the side near the closed end with a smaller platinum tube having a brass jacket serving as a condenser, with all

platinum-to-platinum joints gold soldered. The reaction tube was heated in a quartz tube to a temperature above 100° C. and steam was admitted at a rate of 2.5 g./min., then the temperature was gradually raised to 1000° C.

Specific examples of halides used are: BaF_2, BeF_2, CaF_2, LiF, NaF, SrF_2, K_2CbF_7, K_2TaF_7, K_2TiF_6, K_2ZrF_6, Na_2BeF_4, Na_2SiF_6, $BaCl_2$, $CaCl_2$, $SrCl_2$, LiCl, and NaCl.

79,766. **MULTISTAGE TURBO-MACHINE ROTOR.** Alan Howard and Chester S. Rice, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Mar. 5, 1949. Published Apr. 29, 1952. Class 230—122. 1 sheet of drawings. 11 pages of specification.



The figure shows a rotor structure for a multistage turbomachine, such as an axial flow compressor. The rotor is comprised of a number of disk members 29 maintained coaxial by interfitting rabbeted hub portions 30 and secured together at a substantial radius from the hub by a plurality of circumferentially spaced through-bolts 36. The axial thickness of the annular bolting flange 32 is greater than the aggregate axial length of the hub portions 30 or the blade-carrying rim portions 34 so that the tension bolts exert compressive force only on the bolting flange, without producing bending stresses in the disks. The separation provided between adjacent rim portions 34 insures there will be no frictional heating of the blade carrying rims due to rubbing action therebetween.

95,869. **MODIFICATION OF CELLULOSIC MATERIALS.** Donald J. Campbell, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours and Company, Wilmington, Del., a corporation of Delaware. Filed May 27, 1949. Published Apr. 29, 1952. Class 8—125. No drawing. 6 pages of specification.

This application discloses a method for modifying cotton textiles, particularly to increase their tensile strength.

Cotton textiles, e. g. cotton fibers, threads, yarns and fabrics, are treated while under tension with an aqueous hydrogen peroxide solution containing about 70 to 98% H_2O_2 by weight at a temperature of −35° C. to 50° C. for a period of time ranging from 30 to 350 seconds, preferably 60 to 300 seconds. The degree of tension to which the textile material is subjected during the treatment should be sufficient to prevent shrinkage but insufficient to cause breakage. Preferably, the degree of tension will approach that at which fiber breakage will occur. It is preferred to employ peroxide solutions containing 85 to 95% H_2O_2 by weight, at a temperature in the range of −20 to 50° C., and most preferably −5 to 10° C. The pH of the treating solution will range from 0 to 3.

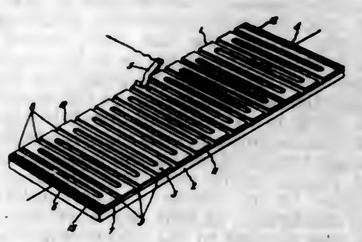
Following the above treatment the cotton textile material may be washed and then treated by usual procedures. The treatment effects a marked increase in the tensile strength. If the tension is maintained throughout both the peroxide treatment and the subsequent washing treatment, the final product assumes a lustrous finish.

Example 2

40/2 unbleached cotton yarn was immersed in 90% aqueous hydrogen peroxide solution at 0° C. under a tension of 200 g./thread for 180 sec. The yarn was removed, washed and dried. Before immersion the yarn showed a breaking strength of 722 g. After treatment the breaking strength was 991 g., representing an increase of 40%. Elongation before breaking of the untreated yarn was 7.7%; after treatment it was 4.0%. Without tension, the thread similarly treated had a strength of 793 g. and an elongation of 6.5%.

The treatment with concentrated peroxide solution can be used advantageously in conjunction with flameproofing treatments, e. g. of the urea-phosphate type, to compensate for the loss in tensile strength normally resulting from such latter treatment. In such applications, the peroxide treatment may either precede or follow the flameproofing treatment, unless the flameproofing agents used are incompatible with hydrogen peroxide, in which case the peroxide treatment should precede flameproofing.

124,013. **PRECISION RESISTOR DEVICE.** John C. Marinace, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York. Filed Oct. 28, 1949. Published Apr. 29, 1952. Class 201—69. 1 sheet of drawings. 9 pages of specification.



This application relates to a precision resistor potentiometer including a resistor element 3 composed of a thin foil of low resistance temperature coefficient material which is bonded to an insulating base 2 by means of a suitable adhesive 7. Slots 8 and 9 are cut through the foil after bonding to provide a sinuous resistance path having the desired resistance characteristics. Suitable fixed contacts 4 and 6 and a movable contact 5 are provided.

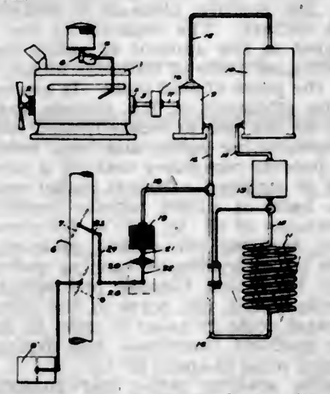
124,694. **REFRIGERATION UNIT.** Melvin E. Griffing, Bridgehampton, N. Y. Filed Oct. 31, 1949. Published Apr. 29, 1952. Class 62—4. 1 sheet of drawings. 5 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)

This apparatus pertains to a control system for a refrigeration system driven by an internal combustion engine.

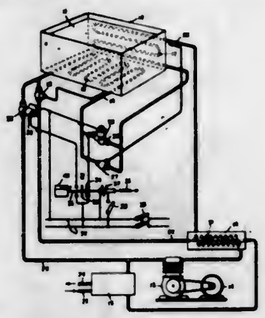
The apparatus consists of an internal combustion engine 1, with carburetor 2, starter pulley 3, magneto 4 and shaft 5 driving compressor 9 through centrifugal clutch or other speed responsive mechanism 18 and shaft 17. Butterfly valve 7 in the intake manifold 6 is controlled by operating conditions of the refrigeration system. Butterfly valve 8 and governor control 8' of conventional design control the maximum speed of the engine.

Conduit 12 delivers compressed gas from compressor 9 to condenser 10, from thence condensed refrigerant goes to evaporator 11 through pipe 14, receiver 13, an expansion valve and pipe 15. Suction pipe 16 leading back to the compressor has connected thereto by conduit 18 a pressure responsive bellows 19 which in turn operates a snap-action device 20 by push rod 21. Through linkage 22—25 butterfly valve 7 is operated. High pressure in such suction pipe 16, which accompanies starting or heavy load, will cause bellows 19 to expand and through snap acting mechanism 20 move valve 7 wide open. Decrease in pressure accompanying light or no load conditions will cause 19 to contract, and snap 7 to closing position.



The arrangement of clutch device 18 is such that the shafts 5 and 17 are disconnected at speeds just under full load speed of the particular engine R. P. M., and connected just above full load speed. The engine is disconnected when the throttle is moved to its idling speed and stalling of the engine is prevented. When the throttle is moved to its open position, the shafts are not connected until the engine has gained momentum.

151,974. **REFRIGERATING SYSTEM.** Wayne E. Dodson, Caldwell, N. J., assignor to General Electric Company, a corporation of New York. Filed Mar. 25, 1950. Published Apr. 29, 1952. Class 62—105. 1 sheet of drawings. 10 pages of specification.

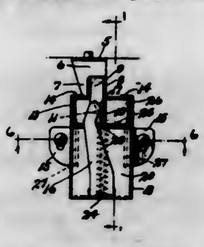


This application discloses an ice making machine of the type wherein small pieces of ice are frozen within a tank of water 11 and are periodically released by heating, thereby allowing them to float to the surface for removal. The refrigerating system includes the usual compressor 13, condenser 15 and heat exchanger 16. The condenser is cooled by water entering through 23 and leaving through 24. A first evaporator 12 is fed by liquid line 22 arranged in heat exchange relationship with one portion of the tank, for instance the bottom, and a second evaporator 17 arranged in heat exchange relationship with another portion of the tank, such as a side wall. Means is provided to connect the evaporators normally in series in a closed refrigerant circuit with the compressor and condenser so that the second evaporator 17 receives refrigerant from the first evaporator 12. A first thermostatic expansion valve 18 with a thermal bulb 19 controls the operation of the first evaporator 12, and a second valve 27 with thermal bulb 28 controls that of the second evaporator 17. A normally open solenoid valve 29 directs refrigerant from the first to the second evaporator around thermostatic valve 27. This valve is energized by coil 29 connected across line 32 by switch blade 34 when bar 36 is maintained in the right hand position by spring 35. Under this condition the second evaporator acts as a superheater. A conduit 25 is provided to by-pass the condenser and the first expansion valve for providing communication between the output of the compressor and the first evaporator, with a normally closed solenoid valve 26 in this conduit operated by solenoid 30 when switch blade 39 on bar 36 is moved to the left by operation of manual switch 38 and coil 37. Through this conduit 25 hot refrigerant is supplied to the first evaporator 12 and releases the ice adjacent that evaporator, the second evaporator 17 and expansion valve 27 being rendered operative to utilize heat of the water in the tank to vaporize refrigerant liquefied in the first evaporator.

Whenever main switch 33 is closed, the valve 29 is held open because the spring 35 keeps blade 34 in its right hand position.

The valve 29 is preferably maintained closed long enough to vaporize any slugs of liquid which may remain in coil 17. To insure this, dashpot 40 is provided to insure a slow return of bar 36 to its right hand position after deenergization of coil 37.

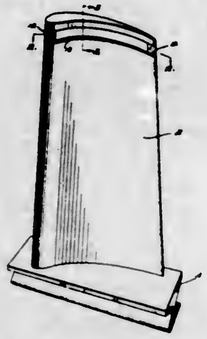
192,665. **CUPBOARD CATCH.** Herbert Young, Grand Rapids, Mich., assignor to National Brass Company, Grand Rapids, Mich., a corporation of Michigan. Filed Oct. 28, 1950. Published Apr. 29, 1952. Class 292—198. 2 sheets of drawings. 13 pages of specification.



The invention discloses a cupboard snap latch designed to automatically latch on closing of the door and to release upon pressure against the door in the direction of door closure. The keeper 5 has a lip 11 for engaging the inclined finger 17 on the movable latch bolt 16. The latch bolt 16 may rock about its base 24. A stirrup 25 is slidably mounted in the latch housing. A compression spring 28 simultaneously urges the stirrup 25 toward the keeper 5 and the latch bolt 16 pointed toward the keeper 5. As the door is closed, the lip 11 engages the finger 17 rocking the latch bolt 16 to the left. Engagement of the

finger 7 of the keeper against the right face of the finger 17 prevents movement of the latch bolt into the keeper until the keeper has moved sufficiently away from the latch to prevent passage of the finger 17 through the opening at 8 in the keeper. When the latch bolt and keeper are engaged, the latch bolt is held in a position rocked to the left. Upon subsequent movement of the keeper toward the latch, the finger 17 will pivot through the opening at 8, releasing the keeper from the latch.

205,881. **BLADE DAMPING DEVICE.** Philip P. Newcomb, Manchester, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware. Filed Jan. 13, 1951. Published Apr. 29, 1952. Class 253—77. 1 sheet of drawings. 4 pages of specification.



The drawing shows a compressor or turbine blade 2 having a groove 10 extending therearound adjacent to the tip in which is positioned a strip 12 of material having a small amount of freedom both endwise and transversely of the blade for damping vibrations. The outer surface of the band is preferably substantially coextensive with the outer surface of the blade.

224,440. **METHOD OF IMPREGNATING POROUS SINTERED NICKEL PLATE.** Ernst G. Baars, West Long Branch, N. J., assignor to the United States of America as represented by the Secretary of the Army. Filed May 3, 1951. Published Apr. 29, 1952. Class 117—127. No drawing. 8 pages of specification.

(Filed under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757.)

This application discloses a method of manufacturing impregnated sintered nickel plate for use as the positive plate in a nickel-cadmium storage battery. The capacity of the plate will be related to the amount of active impregnant i. e., hydrated oxide of trivalent nickel, deposited within the pores of said plate. It has been found that the efficiency of the process may be improved by the use of concentrated solutions of the impregnating agent and high temperatures.

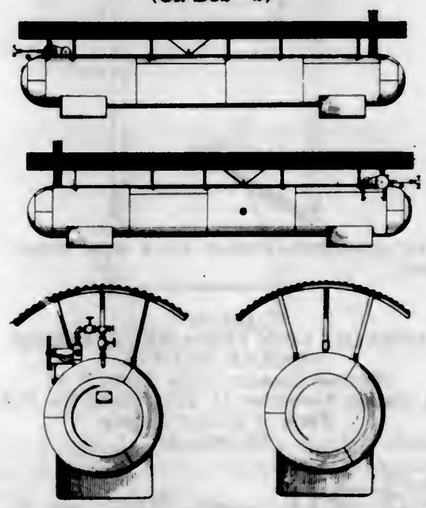
The process comprises soaking a porous plate formed of sintered carbonyl nickel powder in a molten bath of nickel nitrate hexahydrate at temperatures of 85° to 150° C. for about 5 to 60 minutes, treating the soaked plate with a hot solution of an hydroxide such as sodium or potassium hydroxide thereby precipitating nickel hydroxide within the pores of the plate, rinsing the treated plate in water in order to remove the soluble products therefrom, and drying the impregnated plate at about 80° C.

Suitable soaking baths may comprise either molten or concentrated solutions of nickel or cadmium salts, preferably nitrates.

DESIGNS

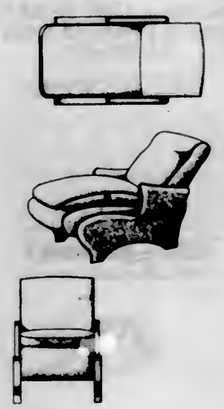
APRIL 29, 1952

166,584
GAS STORAGE TANK UNIT
James Patrick Beaird, Shreveport, La., assignor to The J. B. Beaird Company, Inc., Shreveport, La.
Application July 9, 1951, Serial No. 15,807
Term of patent 14 years
(Cl. D52—2)



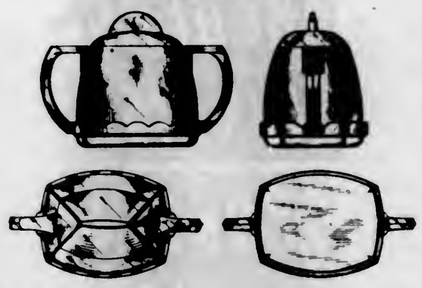
The ornamental design for a gas storage tank unit, as shown.

166,585
LOUNGE CHAIR
Joseph D. Bell, San Francisco, Calif.; Pearl B. Bell administratrix of Joseph D. Bell, deceased
Application September 14, 1950, Serial No. 12,185
Term of patent 14 years
(Cl. D15—8)



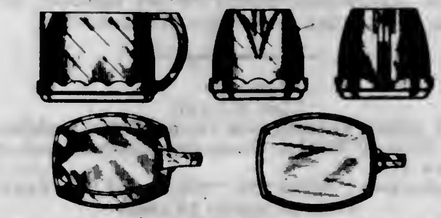
The ornamental design for a lounge chair, substantially as shown.

166,586
SUGAR BOWL
Charles O. Bliss, Los Angeles, Calif.
Application January 28, 1952, Serial No. 18,270
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a sugar bowl, as shown and described.

166,587
CREAM PITCHER
Charles O. Bliss, Los Angeles, Calif.
Application January 28, 1952, Serial No. 18,271
Term of patent 14 years
(Cl. D44—21)



The ornamental design for a cream pitcher, as shown and described.

166,588
COMBINED WINDSHIELD CLEANER AND COIN RECEPTACLE
David Brody, Clinton, and Sidney Coleman, Maynard, Mass., assignors to Van Brode Milling Co., Inc., Clinton, Mass., a corporation of Massachusetts
Application May 5, 1951, Serial No. 15,082
Term of patent 7 years
(Cl. D9—6)



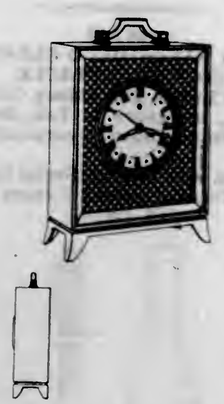
The ornamental design for a combined windshield cleaner and coin receptacle, as shown.

166,589
ALPHABET FOR SIGNS
Edward Brozen, New York, N. Y.
Application November 17, 1951, Serial No. 17,462
Term of patent 7 years
(Cl. D64—12)



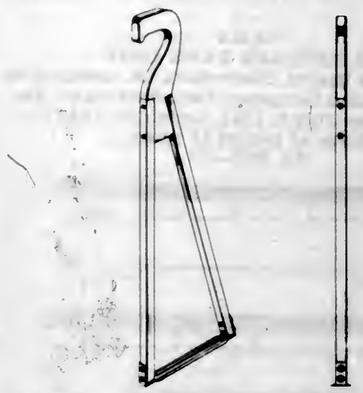
The ornamental design for an alphabet for signs, substantially as shown and described.

166,590
CLOCKCASE
Leo I. Bruce, Framingham Center, Mass., assignor to General Electric Company, a corporation of New York
Application February 28, 1952, Serial No. 18,692
Term of patent 14 years
(Cl. D42—7)



The ornamental design for a clock case, as shown.

166,591
WEED CUTTER
John D. Casey, Medina, N. Y.
Application March 14, 1951, Serial No. 14,492
Term of patent 14 years
(Cl. D40—1)



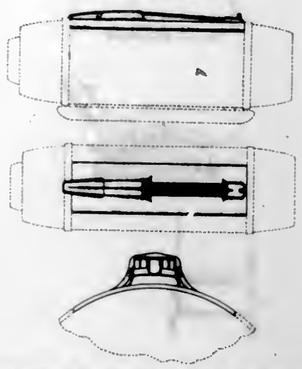
The ornamental design for a weed cutter, as shown.

166,592
JEWELRY LINK FOR A NECKLACE OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application November 15, 1951, Serial No. 17,432
Term of patent 7 years
(Cl. D45—4)



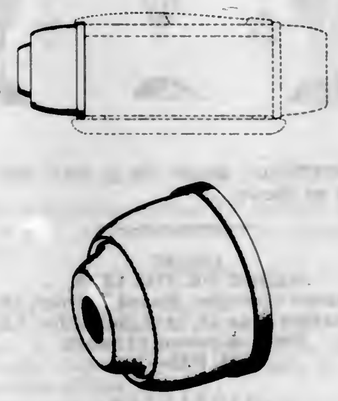
The ornamental design for a jewelry link for a necklace or similar article, as shown.

166,593
SUCTION CLEANER OR SIMILAR ARTICLE
Peter W. Cherry, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application June 6, 1950, Serial No. 10,382
Term of patent 14 years
(Cl. D9—2)



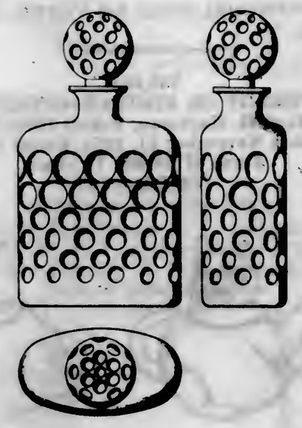
The ornamental design for a suction cleaner or similar article, substantially as shown and described.

166,594
SUCTION CLEANER OR SIMILAR ARTICLE
Peter W. Cherry, Monroe, Conn., assignor to General Electric Company, a corporation of New York
Application August 28, 1950, Serial No. 11,963
Term of patent 14 years
(Cl. D9—2)



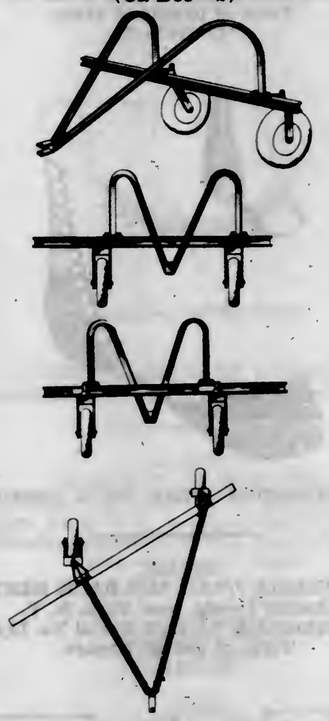
The ornamental design for a suction cleaner or similar article, substantially as shown and described.

166,595
DECANTER BOTTLE
Ernest Du Pree, Old Greenwich, Conn., assignor to Schenley Industries, Inc., New York, N. Y., a corporation of Delaware
Application June 20, 1950, Serial No. 10,660
Term of patent 14 years
(Cl. D58—8)



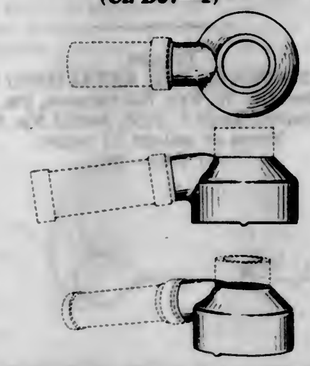
The ornamental design for a decanter bottle, as shown.

166,596
SUPPORT AND DRAFT APPARATUS FOR A SIDE DELIVERY RAKE
Joe Enos, Jr., Visalia, Calif., assignor to Melvin A. Merrill, Laton, Calif.
Application May 5, 1949, Serial No. 2,445
Term of patent 14 years
(Cl. D35—2)



The ornamental design for a support and draft apparatus for a side delivery rake, as shown.

166,597
ILLUMINATING MAGNIFIER
Robert S. Filsinger, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application May 31, 1951, Serial No. 15,357
Term of patent 14 years
(Cl. D57—1)



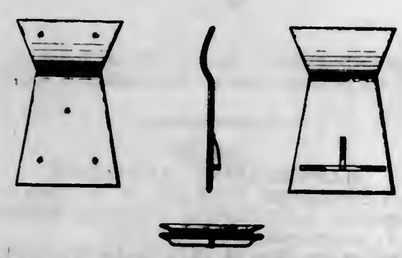
The ornamental design for an illuminating magnifier, substantially as shown and described.

166,598
STOCKING
Max Fisher, Lower Alsace Township, Berks County, and Frederick L. Ireland, West Reading, Pa., assignors to Penn Maid Hosiery Mills, Inc., Reading, Pa., a corporation of Pennsylvania
Application December 11, 1951, Serial No. 17,686
Term of patent 14 years
(Cl. D47—7)



The ornamental design for a stocking, as shown.

166,599
PORTABLE HEAD AND BACK REST
Charles Fleisig, New York, N. Y.
Application July 12, 1951, Serial No. 15,846
Term of patent 7 years
(Cl. D15—8)



The ornamental design for a portable head and back rest, as shown.

166,600
COMBINED PLATE AND ATTACHING CLAMP
Dorothy W. Fry, Norristown, Pa.
Application April 7, 1950, Serial No. 9,038
Term of patent 14 years
(Cl. D44—29)



The ornamental design for a combined plate and attaching clamp, as shown and described.

166,601
SHELL DOLL
Stanley Goldfarb, Miami, Fla.
Application December 31, 1951, Serial No. 17,879
Term of patent 3½ years
(Cl. D34—4)



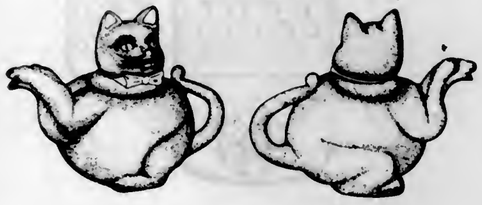
The ornamental design for a shell doll, substantially as shown.

166,602
BADGE OR THE LIKE
Alexander Gonzalez, Mount Rainier, Md.
Application June 13, 1949, Serial No. 3,239
Term of patent 14 years
(Cl. D29—2)



The ornamental design for a badge or the like, as shown.

166,603
TEAPOT OR SIMILAR ARTICLE
Sanford H. Hartman, Forest Hills, N. Y.
Application November 21, 1951, Serial No. 17,488
Term of patent 14 years
(Cl. D44—26)



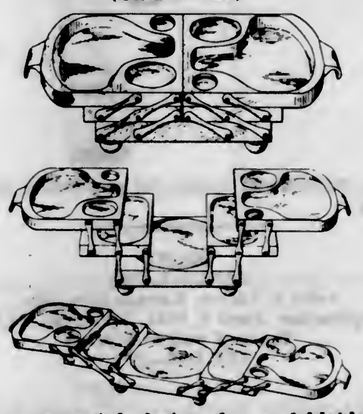
The ornamental design for a teapot or similar article, substantially as shown.

166,604
SHEET OF STATIONERY OR THE LIKE
Eugenie J. Jones, Webster Groves, Mo.
Application February 15, 1951, Serial No. 14,223
Term of patent 14 years
(Cl. D59—14)



The ornamental design for a sheet of stationery or the like, substantially as shown and described.

166,605
FOLDABLE FOOD TRAY
Robert B. Karoff, New York, N. Y., assignor to Novelty Utilities, Inc., New York, N. Y., a corporation of New York
Application May 22, 1951, Serial No. 15,280
Term of patent 14 years
(Cl. D44—10)



The ornamental design for a foldable food tray, as shown.

166,606
BROOCH OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 25, 1952, Serial No. 18,230
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,607
NECKLACE OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 25, 1952, Serial No. 18,231
Term of patent 7 years
(Cl. D45—16)



The ornamental design for a necklace or the like, substantially as shown and described.

166,608
BRACELET OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 25, 1952, Serial No. 18,234
Term of patent 7 years
(Cl. D45—4)



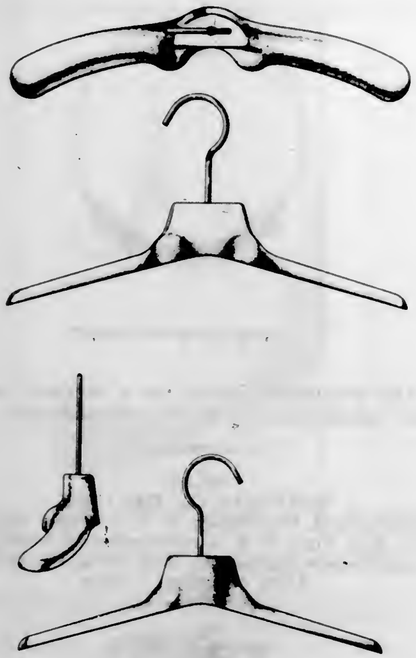
The ornamental design for a bracelet or the like, substantially as shown.

166,609
PIN CLIP OR THE LIKE
Adolph Katz, Providence, R. I., assignor to Coro, Inc., New York, N. Y., a corporation of New York
Application January 25, 1952, Serial No. 18,238
Term of patent 7 years
(Cl. D45—19)



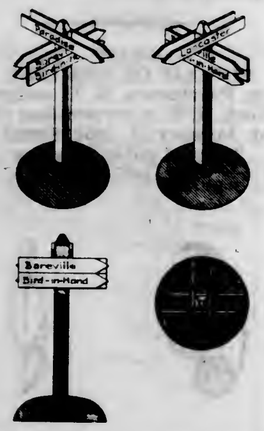
The ornamental design for a pin clip or the like, substantially as shown.

166,610
GARMENT HANGER
Alexander Kerby, Cleveland Heights, Ohio
Application October 11, 1950, Serial No. 12,520
Term of patent 14 years
(Cl. D80—8)



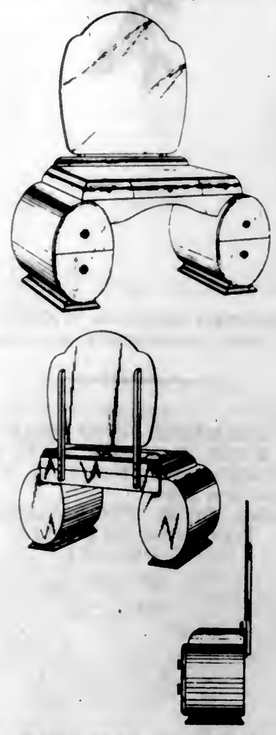
The ornamental design for a garment hanger, as shown.

166,611
SIGNPOST PAPERWEIGHT
Mae I. Klein and Dorothy B. Nystrom, Lancaster, Pa.
Application February 2, 1951, Serial No. 14,086
Term of patent 3½ years
(Cl. D74—12)



The ornamental design for a signpost paperweight, as shown and described.

166,612
DRESSING TABLE
Isaac Lazarus, London, England, assignor to L. Lazarus & Sons Limited, London, England
Application July 3, 1951, Serial No. 15,758
In Great Britain January 8, 1951
Term of patent 7 years
(Cl. D33—6)



The ornamental design for a dressing table, as shown.

166,613
TABLE LAMP
John F. Livers, Kansas City, Mo.
Application April 9, 1951, Serial No. 14,767
Term of patent 7 years
(Cl. D48—20)



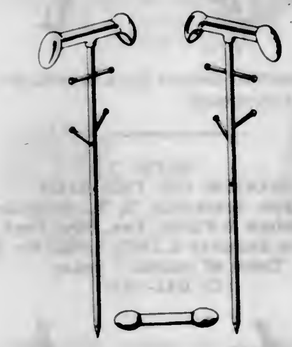
The ornamental design for a table lamp, substantially as shown.

166,614
TABLE LAMP
John F. Livers, Kansas City, Mo.
Application April 9, 1951, Serial No. 14,768
Term of patent 7 years
(Cl. D48—20)



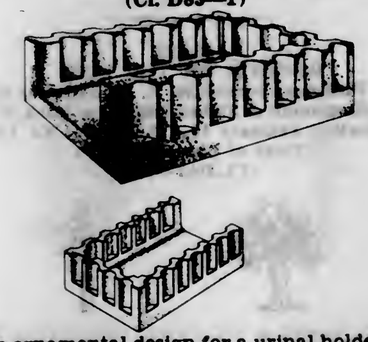
The ornamental design for a table lamp, substantially as shown.

166,615
PORTABLE OUTDOOR CLOTHES RACK
Duane S. Loughlin, Auburn, Calif.
Application December 13, 1951, Serial No. 17,717
Term of patent 14 years
(Cl. D33—8)



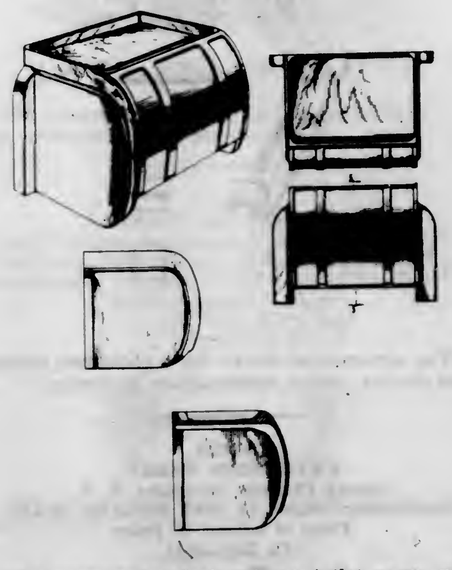
The ornamental design for a portable outdoor clothes rack, as shown.

166,616
URINAL HOLDER
Eleanor Grace Mally, Colorado Springs, Colo.
Application March 27, 1951, Serial No. 14,639
Term of patent 14 years
(Cl. D83—1)



The ornamental design for a urinal holder, substantially as shown.

166,617
TOILET PAPER ROLL COVER
Helen D. McLellan and Sidney M. Boss, Chicago, Ill.; said Boss assignor to said McLellan
Application January 3, 1952, Serial No. 17,909
Term of patent 14 years
(Cl. D4—8)



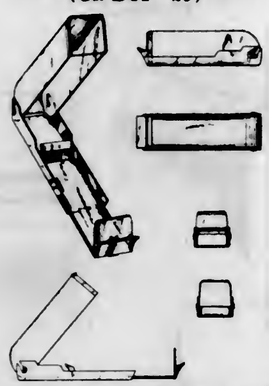
The ornamental design for a toilet paper roll cover, substantially as shown.

166,618
POST MITT FOR CHAIRS AND OTHER FURNITURE
John B. Mince, Fort Payne, Ala.
Application December 28, 1951, Serial No. 17,843
Term of patent 14 years
(Cl. D15—1)



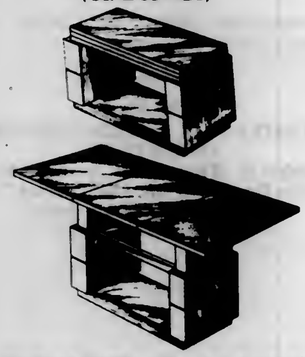
The ornamental design for a post mitt for chairs and other furniture, as shown and described.

166,619
COMBINED SLICING AND STORING DEVICE
Carl W. Paul, New York, N. Y.
Application May 25, 1950, Serial No. 10,150
Term of patent 7 years
(Cl. D44—29)



The ornamental design for a combined slicing and storing device, substantially as shown.

166,620
EXTENSION TABLE
Joseph Petrone, Brooklyn, N. Y.
Application August 28, 1951, Serial No. 16,460
Term of patent 14 years
(Cl. D33—14)



The ornamental design for an extension table, as shown and described.

166,621
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application December 29, 1951, Serial No. 17,863
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

166,622
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,924
Term of patent 7 years
(Cl. D45—19)



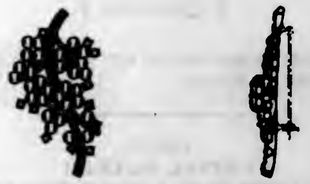
The ornamental design for a brooch or the like, substantially as shown.

166,623
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,925
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,624
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 4, 1952, Serial No. 17,926
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,625
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 10, 1952, Serial No. 17,986
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,626
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 10, 1952, Serial No. 17,989
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,627
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 17, 1952, Serial No. 18,096
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,628
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 17, 1952, Serial No. 18,097
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,629
BRACELET OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 17, 1952, Serial No. 18,100
Term of patent 7 years
(Cl. D45—4)



The ornamental design for a bracelet or the like, substantially as shown.

166,630
EARRING OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 21, 1952, Serial No. 18,127
Term of patent 7 years
(Cl. D45—9)



The ornamental design for an earring or the like, substantially as shown.

166,631
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 21, 1952, Serial No. 18,128
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,632
BROOCH OR THE LIKE
Alfred Philippe, Scarsdale, N. Y., assignor to Trifari, Krussman & Fishel, Inc., New York, N. Y.
Application January 21, 1952, Serial No. 18,130
Term of patent 7 years
(Cl. D45—19)



The ornamental design for a brooch or the like, substantially as shown.

166,633
BROOCH OR SIMILAR ARTICLE
Annie M. Pond, Douglaston, N. Y.
Application January 22, 1952, Serial No. 18,149
Term of patent 14 years
(Cl. D45—19)



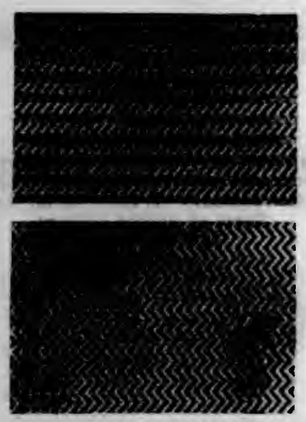
The ornamental design for a brooch or similar article, as shown.

166,634
DOLL
Katharine Leslie Powell, San Diego, Calif.
Application February 3, 1950, Serial No. 7,851
Term of patent 14 years
(Cl. D34—4)



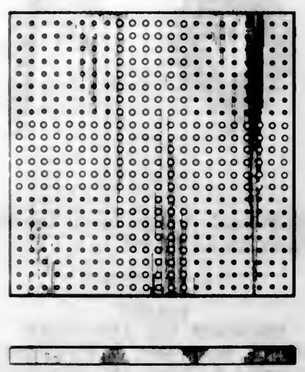
The ornamental design for a doll, as shown.

166,635
TEXTILE FABRIC
Henry A. Portong, Manhasset, N. Y.
Application March 15, 1952, Serial No. 18,919
Term of patent 7 years
(Cl. D92—1)



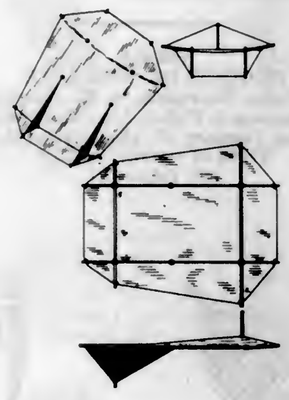
The ornamental design for a textile fabric, substantially as shown.

166,636
ACOUSTICAL UNIT
Theodore Prisland, Hillside, Ill., assignor to The Celotex Corporation, Chicago, Ill., a corporation of Delaware
Application May 17, 1951, Serial No. 15,230
Term of patent 14 years
(Cl. D68—1)



The ornamental design for an acoustical unit, as shown.

166,637
KITE
Floyd M. Robey, Indianapolis, Ind.
Application April 2, 1951, Serial No. 14,683
Term of patent 14 years
(Cl. D34—15)



The ornamental design for a kite, as shown.

166,638
STOCKING
George W. Senior, Ephrata, Pa., assignor to Millway Knitting Mill, Inc., Millway, Pa., a corporation of Pennsylvania
Application November 5, 1951, Serial No. 17,281
Term of patent 14 years
(Cl. D47—7)



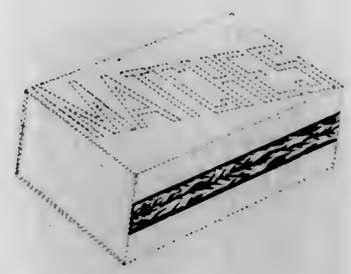
The ornamental design for a stocking, as shown.

166,639
STOCKING
George W. Senior, Ephrata, Pa., assignor to Millway Knitting Mill, Inc., Millway, Pa., a corporation of Pennsylvania
Application November 5, 1951, Serial No. 17,282
Term of patent 14 years
(Cl. D47—7)



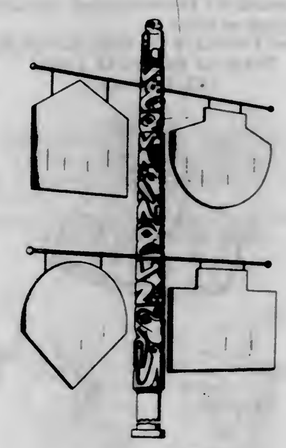
The ornamental design for a stocking, as shown.

166,640
MATCHBOX
Frank L. Sinks, Wadsworth, Ohio, assignor to The Ohio Match Company, Wadsworth, Ohio, a corporation of Delaware
Application July 25, 1951, Serial No. 16,012
Term of patent 14 years
(Cl. D48—29)



The ornamental design for a matchbox, as shown and described.

166,641
ADVERTISING SIGN
Woodrow G. Terry, Salt Lake City, Utah, assignor to The Totem Pole Advertising Co., Salt Lake City, Utah, a partnership
Application May 15, 1951, Serial No. 15,184
Term of patent 14 years
(Cl. D1—12)



The ornamental design for an advertising sign, as shown and described.

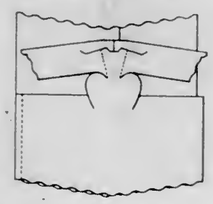
166,642
PILE FABRIC
Juanita G. Todd, Yonkers, N. Y., assignor to Sidney Blumenthal & Co., Inc., New York, N. Y., a corporation of New York
Application December 22, 1951, Serial No. 17,805
Term of patent 3½ years
(Cl. D92—1)



The ornamental design for a pile fabric, substantially as shown and described.

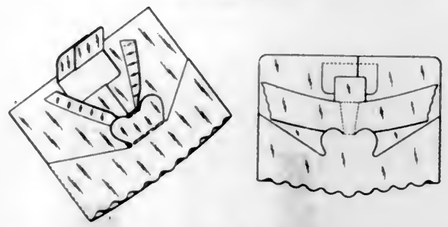
166,643
COMBINED SHIRT AND COLLAR PROTECTOR
Harry A. Tomarin, Cincinnati, Ohio, assignor to Loroco Industries Incorporated, Reading, Ohio, a corporation of Ohio
Application February 18, 1950, Serial No. 8,004
Term of patent 14 years
(Cl. D80—7)





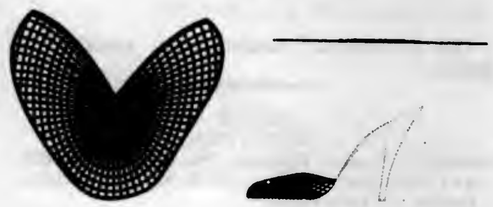
The ornamental design for a combined shirt and collar protector, as shown.

166,644
COMBINED SHIRT AND COLLAR PROTECTOR
Harry A. Tomarin, Cincinnati, Ohio, assignor to Loroco Industries Incorporated, Reading, Ohio, a corporation of Ohio
Application September 12, 1951, Serial No. 16,611
Term of patent 14 years
(Cl. D80—7)



The ornamental design for a combined shirt and collar protector, as shown.

166,645
VAMP FOR A SHOE OR SIMILAR ARTICLE
William Usdin, North Bergen, N. J., assignor to Swisscraft Embroidery Company, Union City, N. J., a partnership
Application March 7, 1952, Serial No. 18,809
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a vamp for a shoe or similar article, substantially as shown and described.

166,646
VAMP FOR A SHOE OR SIMILAR ARTICLE
William Usdin, North Bergen, N. J., assignor to Swisscraft Embroidery Company, Union City, N. J., a partnership
Application March 7, 1952, Serial No. 18,810
Term of patent 7 years
(Cl. D7—7)



The ornamental design for a vamp for a shoe or similar article, substantially as shown and described.

166,647
VAMP FOR A SHOE OR SIMILAR ARTICLE
William Usdin, North Bergen, N. J., assignor to Swisscraft Embroidery Company, Union City, N. J., a partnership
Application March 7, 1952, Serial No. 18,811
Term of patent 7 years
(Cl. D7—7)





The ornamental design for a vamp for a shoe or similar article, substantially as shown and described.

166,648
EMBOSSED TEXTILE FABRIC
Herman Wagner, New York, N. Y.
Application January 21, 1952, Serial No. 18,123
Term of patent 7 years
(Cl. D92—1)



The ornamental design for an embossed textile fabric, substantially as shown and described.

166,649
EMBOSSED TEXTILE FABRIC
Herman Wagner, New York, N. Y.
Application January 21, 1952, Serial No. 18,124
Term of patent 7 years
(Cl. D92—1)



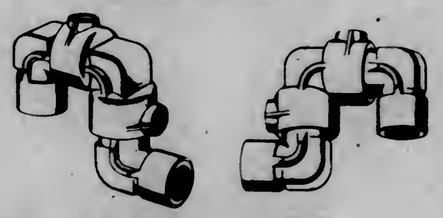
The ornamental design for an embossed textile fabric, substantially as shown and described.

166,650
ELBOW TYPE FITTING
Doyle C. Warren, Monrovia, Calif., assignor to Chiksan Company, Brea, Calif., a corporation of California
Application January 4, 1947, Serial No. 135,937
Term of patent 14 years
(Cl. D91—3)



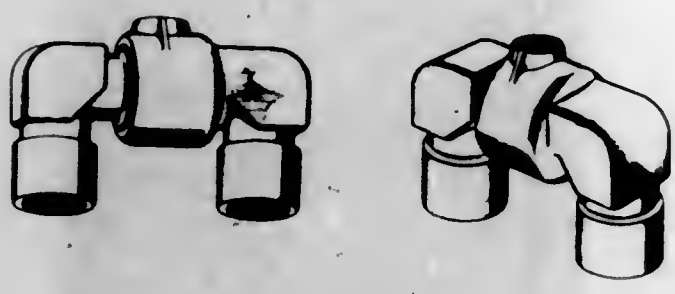
The ornamental design for an elbow type fitting, as shown.

166,651
DOUBLE SWIVEL FITTING
Doyle C. Warren, Monrovia, Calif., assignor to Chiksan Company, Brea, Calif., a corporation of California
Application January 4, 1947, Serial No. 135,941
Term of patent 14 years
(Cl. D91—3)



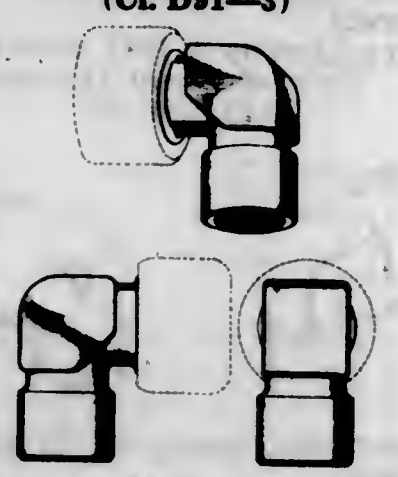
The ornamental design for a double swivel fitting, as shown.

166,652
SWING JOINT
Doyle C. Warren, Monrovia, Calif., assignor to Chiksan Company, Brea, Calif., a corporation of California
Application February 10, 1947, Serial No. 136,795
Term of patent 14 years
(Cl. D91—3)



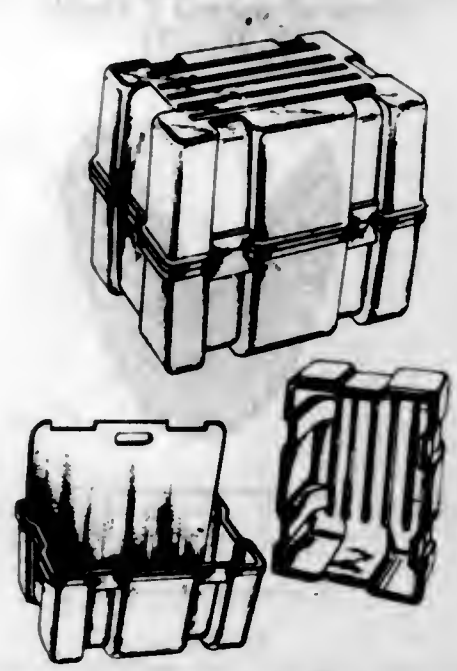
The ornamental design for a swing joint, as shown and described.

166,653
ELBOW FITTING FOR A SWING JOINT
Doyle C. Warren, Monrovia, Calif., assignor to Chiksan Company, Brea, Calif., a corporation of California
Application February 10, 1947, Serial No. 136,800
Term of patent 14 years
(Cl. D91—3)



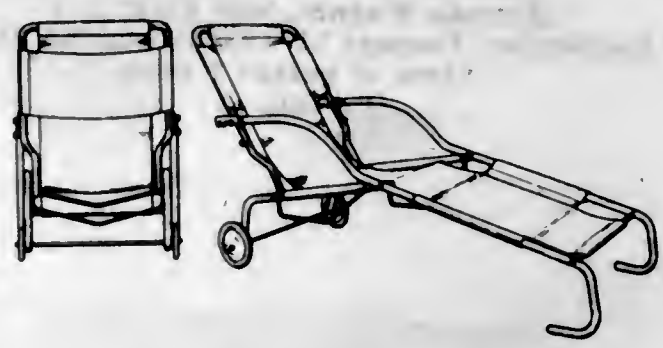
The ornamental design for an elbow fitting for a swing joint, as shown and described.

166,654
TYPEWRITER CASE OR THE LIKE
Alexander C. Weiss, Takoma Park, Md.
Application January 28, 1952, Serial No. 18,260
Term of patent 3½ years
(Cl. D64—11)



The ornamental design for a typewriter case or the like, substantially as shown.

166,655
CHAISE LONGUE
Donald G. Wogomon and Henry Pederson, Goshen, Ind.
Application December 15, 1951, Serial No. 17,752
Term of patent 14 years
(Cl. D15—1)



The ornamental design for a chaise longue, as shown.

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